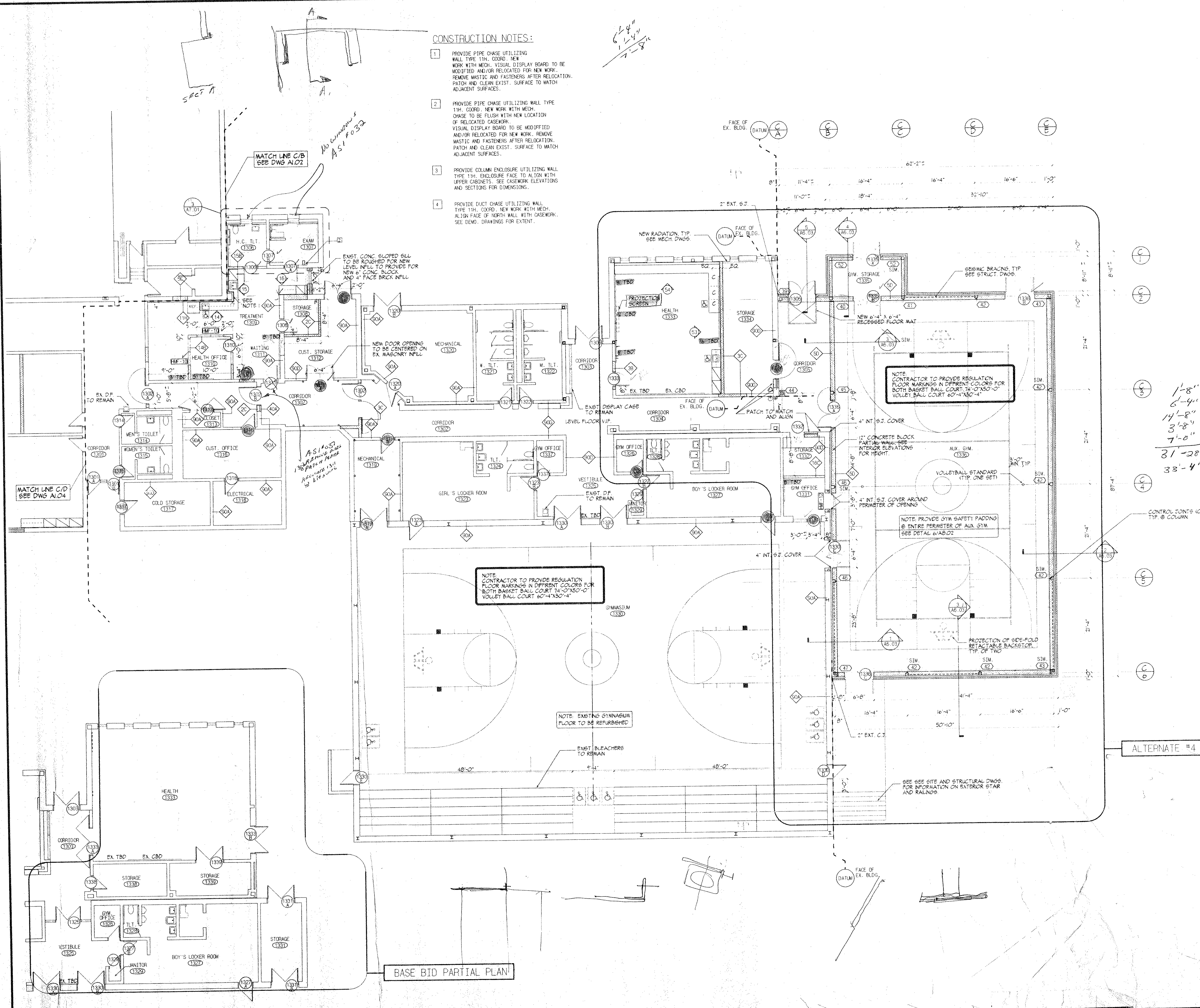


KEY PLAN

CONSTRUCTION NOTES:

1. PROVIDE PIPE CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
2. PROVIDE PIPE CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. CHASE TO BE FLUSH WITH NEW LOCATION OF RELOCATED CASEWORK. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
3. PROVIDE COLUMN ENCLOSURE UTILIZING WALL TYPE 11H. ENCLOSURE FACE TO ALIGN WITH UPPER CASEWORKS. SEE CASEWORK ELEVATIONS AND SECTIONS FOR DIMENSIONS.
4. PROVIDE DUCT CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. ALIGN FACE OF NORTH WALL WITH CASEWORK. SEE DEMO. DRAWINGS FOR EXTENT.

6'-4"
7'-8"



REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWING ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWING ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS RD.01 & RD.02



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD, CONNECTICUT
 7 WEST WHISCONIER ROAD BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

1'-8"
6'-4"
14'-8"
3'-8"
7'-0"
31'-28"
33'-4"

423-9571
Tom Paul

NOTE: CONTRACTOR TO PROVIDE REGULATION FLOOR MARKINGS IN DIFFERENT COLORS FOR BOTH BASKET BALL COURT 74'-0"X50'-0" VOLLEY BALL COURT 60'-4"X30'-4"

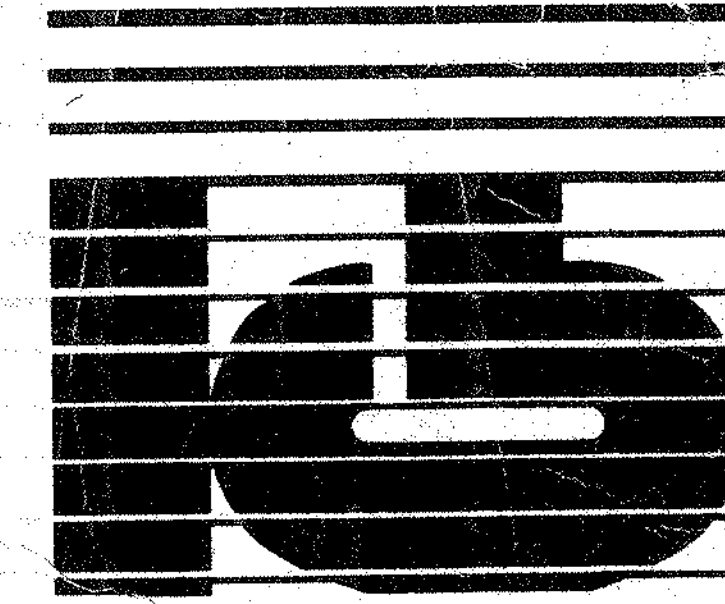
NOTE: CONTRACTOR TO PROVIDE REGULATION FLOOR MARKINGS IN DIFFERENT COLORS FOR BOTH BASKET BALL COURT 74'-0"X50'-0" VOLLEY BALL COURT 60'-4"X30'-4"

NOTE: PROVIDE GYM SAFETY PADDING @ ENTIRE PERIMETER OF AUX GYM SEE DETAIL 6/AB.02

NOTE: EXISTING GYMNASIUM FLOOR TO BE REFURNISHED

ALTERNATE #4

BASE BID PARTIAL PLAN

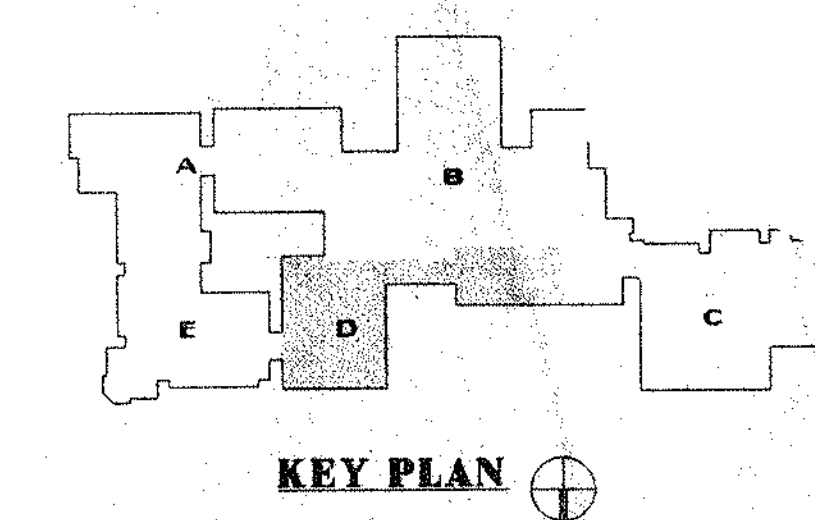


KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 State Rd. New Britain, Connecticut 06050-2590 (860) 229-0281
 Drawn by: M. MONTANA Scale: 1/8" = 1'-0"

MAIN LEVEL FLOOR PL / AREA C

Project no. 98076
 Date: DECEMBER 16, 1998

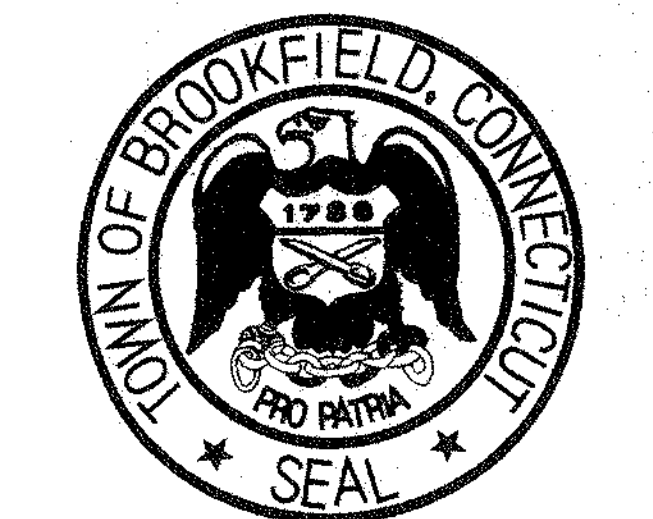


- CONSTRUCTION NOTES:**
1. PROVIDE PIPE CHASE UTILIZING WALL TYPE 1TH. COORD. NEW WORK WITH MECH. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
 2. PROVIDE PIPE CHASE UTILIZING WALL TYPE 1TH. COORD. NEW WORK WITH MECH. CHASE TO BE FLUSH WITH NEW LOCATION OF RELOCATED CASEWORK. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
 3. PROVIDE COLUMN ENCLOSURE UTILIZING WALL TYPE 1TH. ENCLOSURE FACE TO ALIGN WITH UPPER CABINETS. SEE CASEWORK ELEVATIONS AND SECTIONS FOR DIMENSIONS.
 4. PROVIDE DUCT CHASE UTILIZING WALL TYPE 1TH. COORD. NEW WORK WITH MECH. ALIGN FACE OF NORTH WALL WITH CASEWORK. SEE DEMO. DRAWINGS FOR EXTENT.

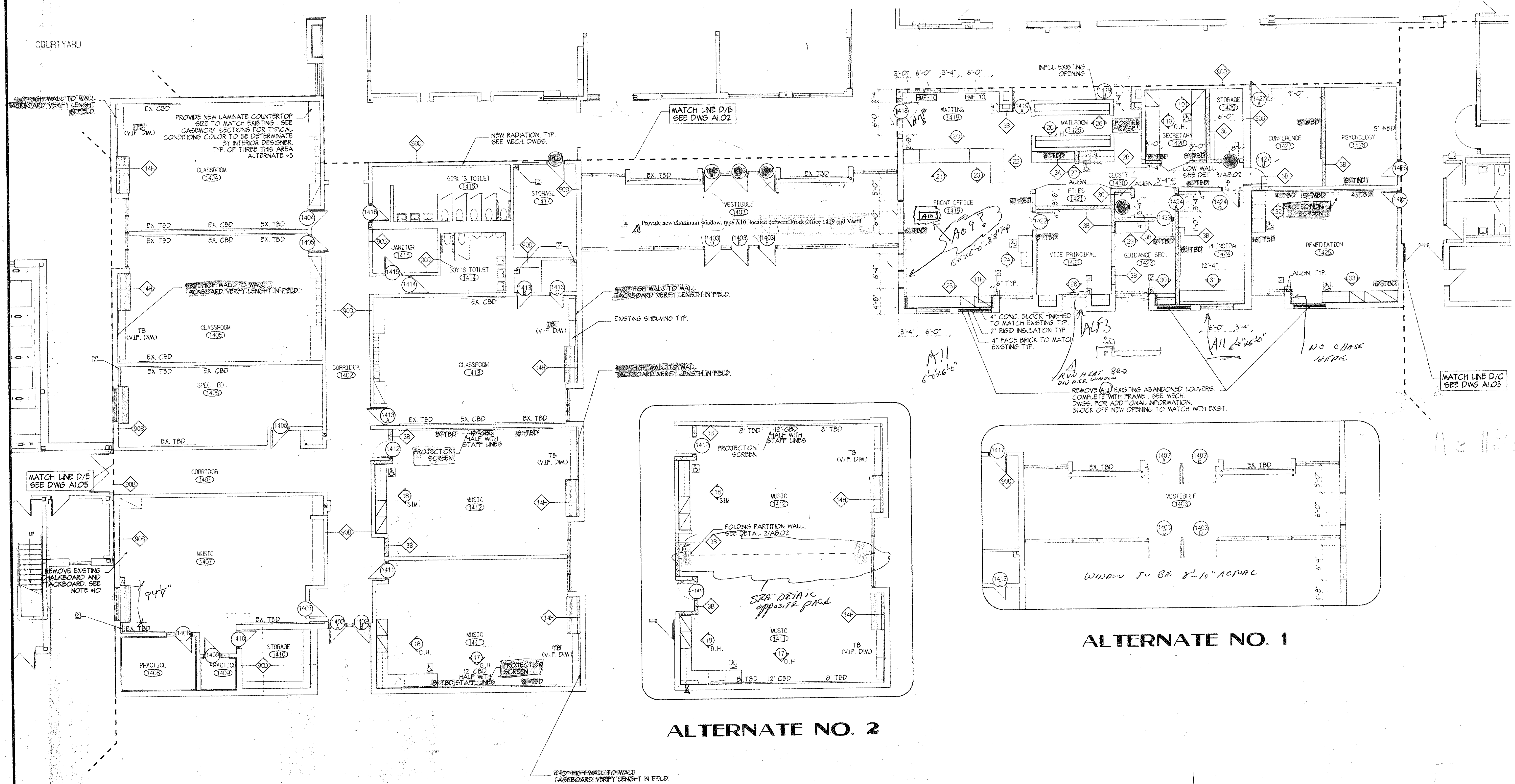
REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R001 & R002



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
 7 WEST WHISCONIER ROAD BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH



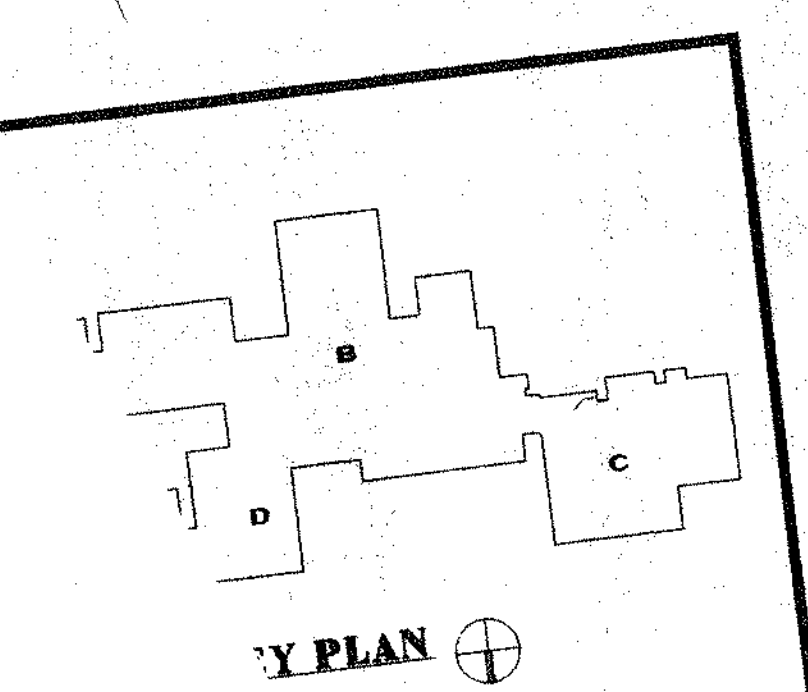
ALTERNATE NO. 1

ALTERNATE NO. 2



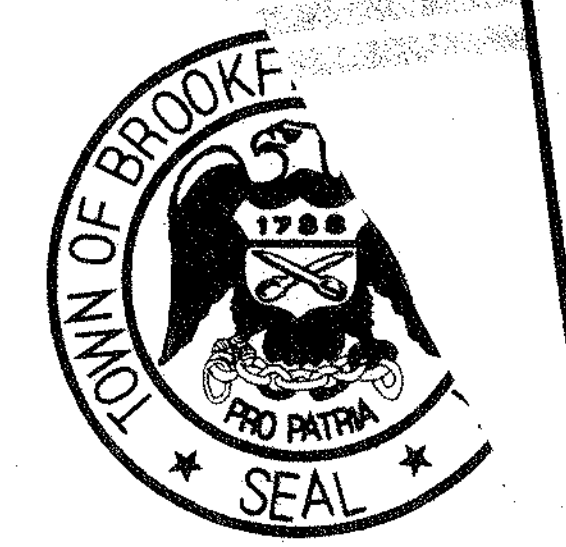
48 Slater Rd., New Britain, Connecticut 06050-2900 860.228.0361
 Drawn by: MACINTANA / S. MITCHELL Scale: 1/8" = 1'-0"

MAIN LEVEL FLOOR PLAN AREA D



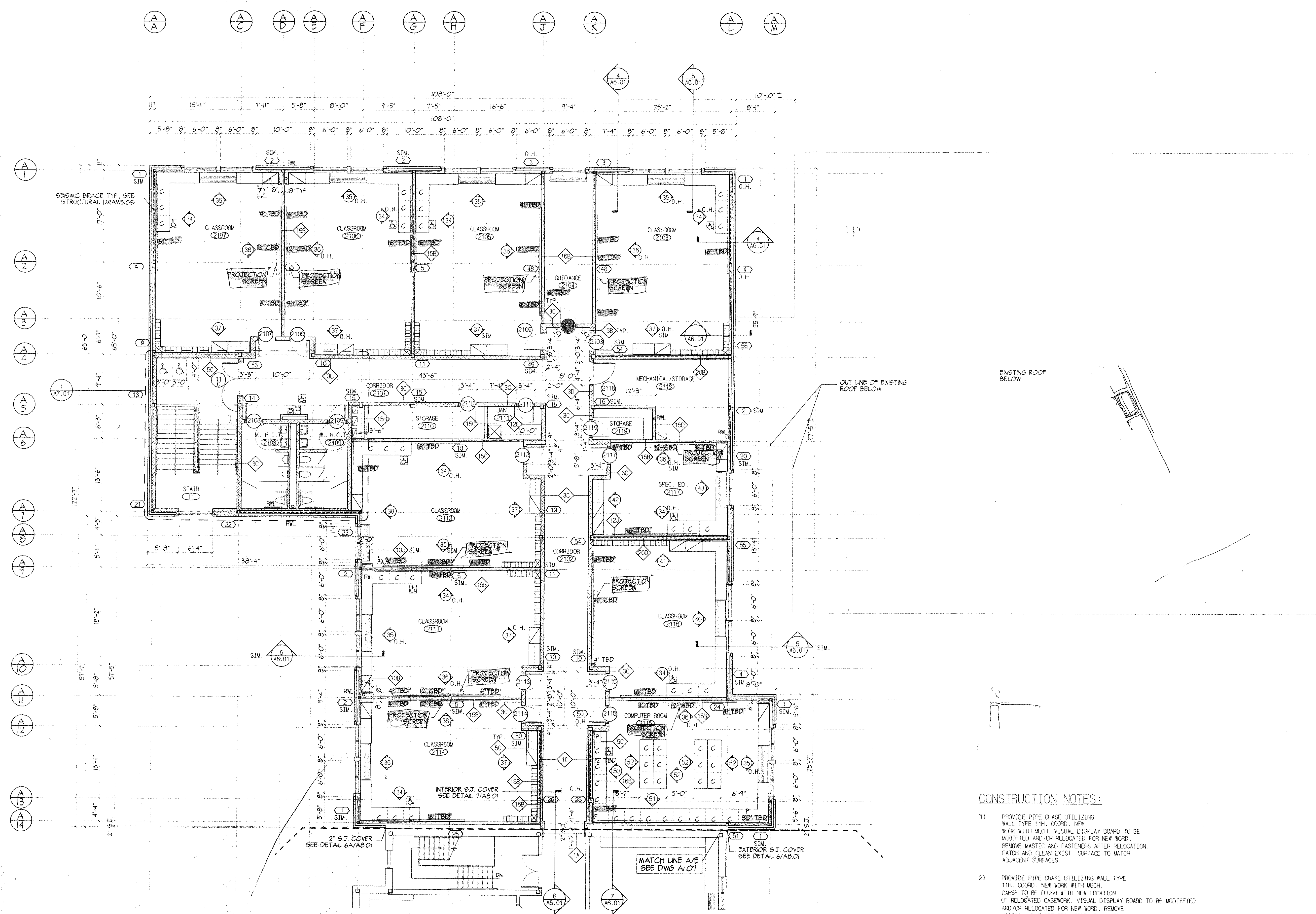
Y PLAN

DATE: JANUARY 2015
 DESCRIPTION: DRAWINGS ISSUED FOR STATE REVIEW
 OCTOBER 5, 2015
 DRAWINGS ISSUED FOR PROPOSAL AND CONSTRUCTION FOR ALL PROPOSED GENERAL WALL TYPES & ROOF
 SEE SYMBOL LEGENDS & ROOF



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT

7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH



CONSTRUCTION NOTES:

- 1) PROVIDE PIPE CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
- 2) PROVIDE PIPE CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. CHASE TO BE FLUSH WITH NEW LOCATION OF RELOCATED CASEWORK. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
- 3) PROVIDE COLUMN ENCLOSURE UTILIZING WALL TYPE 11H. ENCLOSURE FACE TO ALIGN WITH UPPER CABINETS. SEE CASEWORK ELEVATIONS AND SECTIONS FOR DIMENSIONS.
- 4) PROVIDE DUCT CHASE UTILIZING WALL TYPE 11H. COORD. NEW WORK WITH MECH. ALIGN FACE OF NORTH WALL WITH CASEWORK. SEE DEMO. DRAWINGS FOR EXTENT.

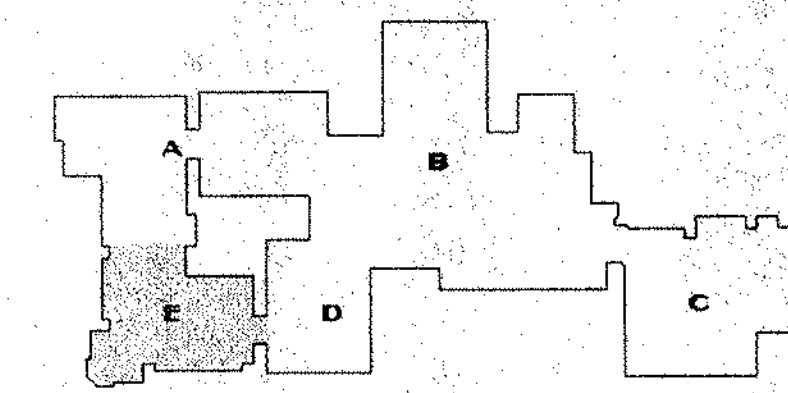
KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

410 Slater Rd. New Britain, Connecticut 06050-2590 (860) 229-0361
 Drawn by: M.MONTANA Scale: 1/8" = 1'-0"

UPPER LEVEL FLOOR PLAN AREA A

Project no. 1807B Drawing no.

Date: DECEMBER 16, 1998 **A1.0**



KEY PLAN

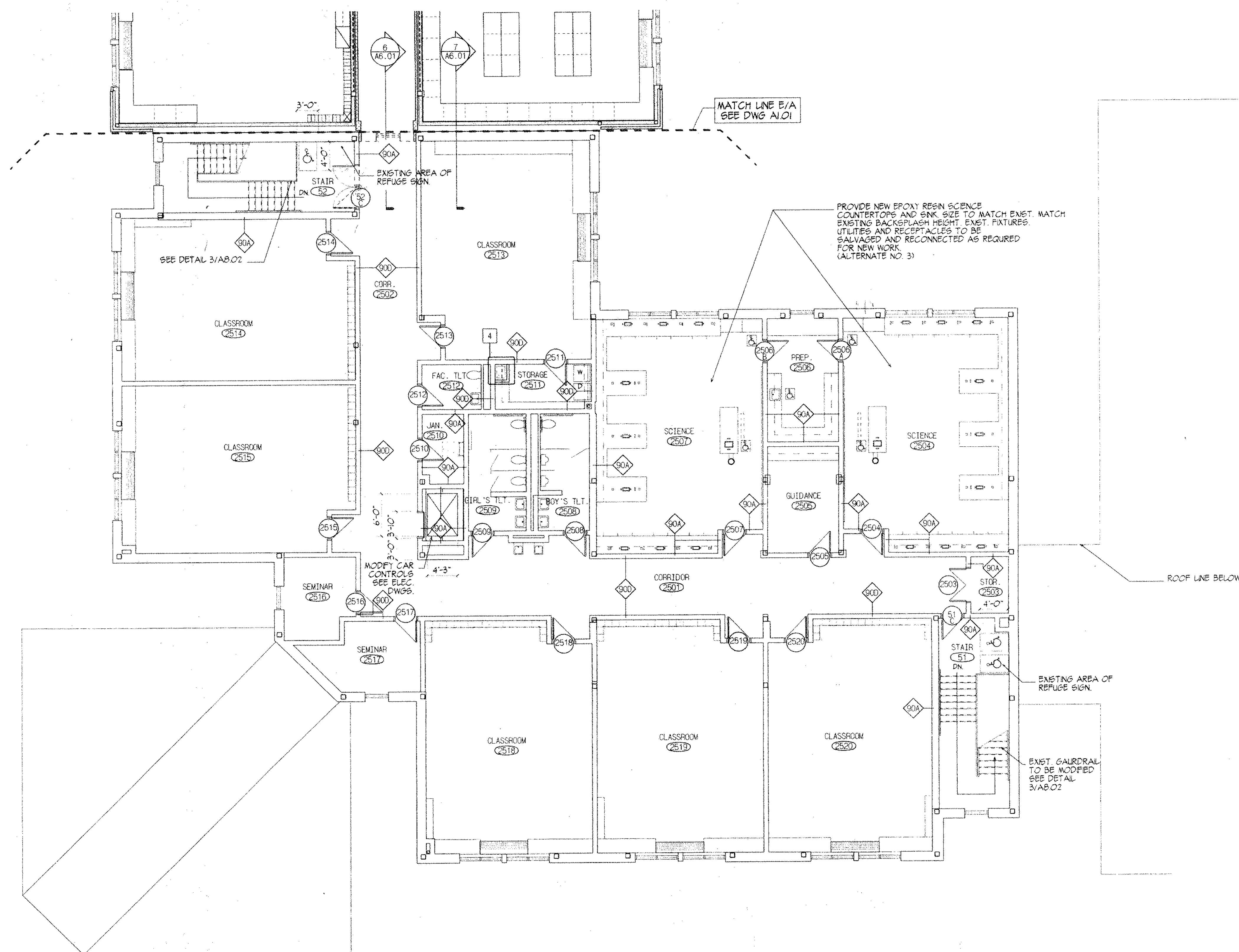
REVISIONS		
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R.O.01 & R.O.02



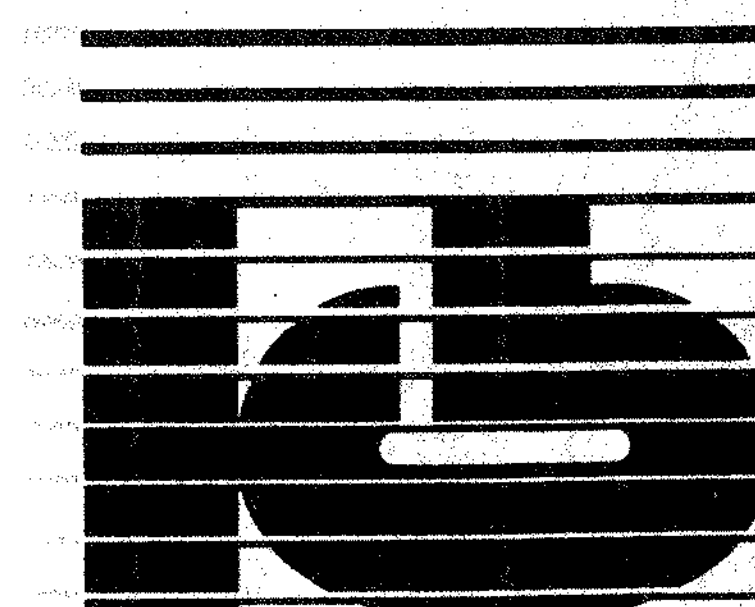
ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
BROOKFIELD, CONNECTICUT

7 WEST WHISCONIER ROAD
BROOKFIELD, CT. 06084
STATE PROJECT NO. 018-043 EA
& 018-041 A/TCH



CONSTRUCTION NOTES:

- 1) PROVIDE PIPE CHASE UTILIZING WALL TYPE 1TH, COORD. NEW WORK WITH MECH. VISUAL DISPLAY BOARD TO BE MODIFIED AND/OR RELOCATED FOR NEW WORK. REMOVE MASTIC AND FASTENERS AFTER RELOCATION. PATCH AND CLEAN EXIST. SURFACE TO MATCH ADJACENT SURFACES.
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- 3) PROVIDE COLUMN ENCLOSURE UTILIZING WALL TYPE 1TH, ENCLOSURE FACE TO ALIGN WITH UPPER CABINETS. SEE CASEWORK ELEVATIONS AND SECTIONS FOR DIMENSIONS.
- 4) PROVIDE DUCT CHASE UTILIZING WALL TYPE 1TH, COORD. NEW WORK WITH MECH. ALIGN FACE OF NORTH WALL WITH CASEWORK. SEE DEMO. DRAWINGS FOR EXTENT.

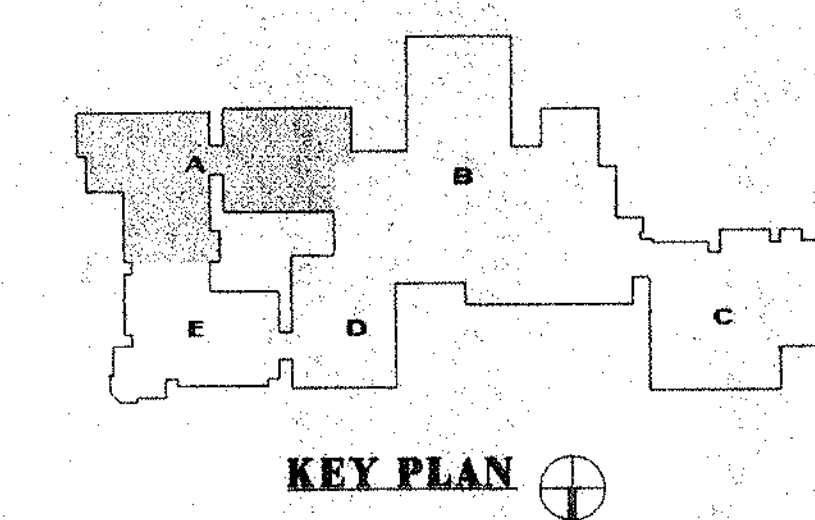


KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 State Rd., New Britain, Connecticut 06050-2500, BR03, 229-0301
Drawn by: M.MONTANA Scale: 1/8" = 1'-0"

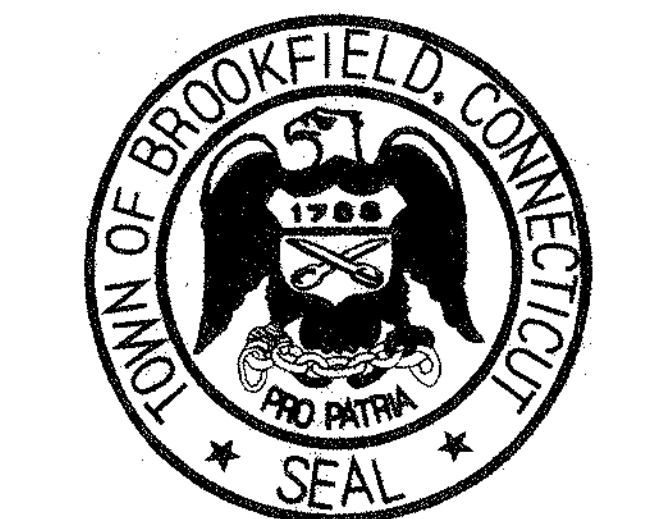
UPPER LEVEL FLOOR PLAN AREA E

Project no. AB07B Drawing no. A1.07
Date: DECEMBER 16, 1998



REVISIONS		
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

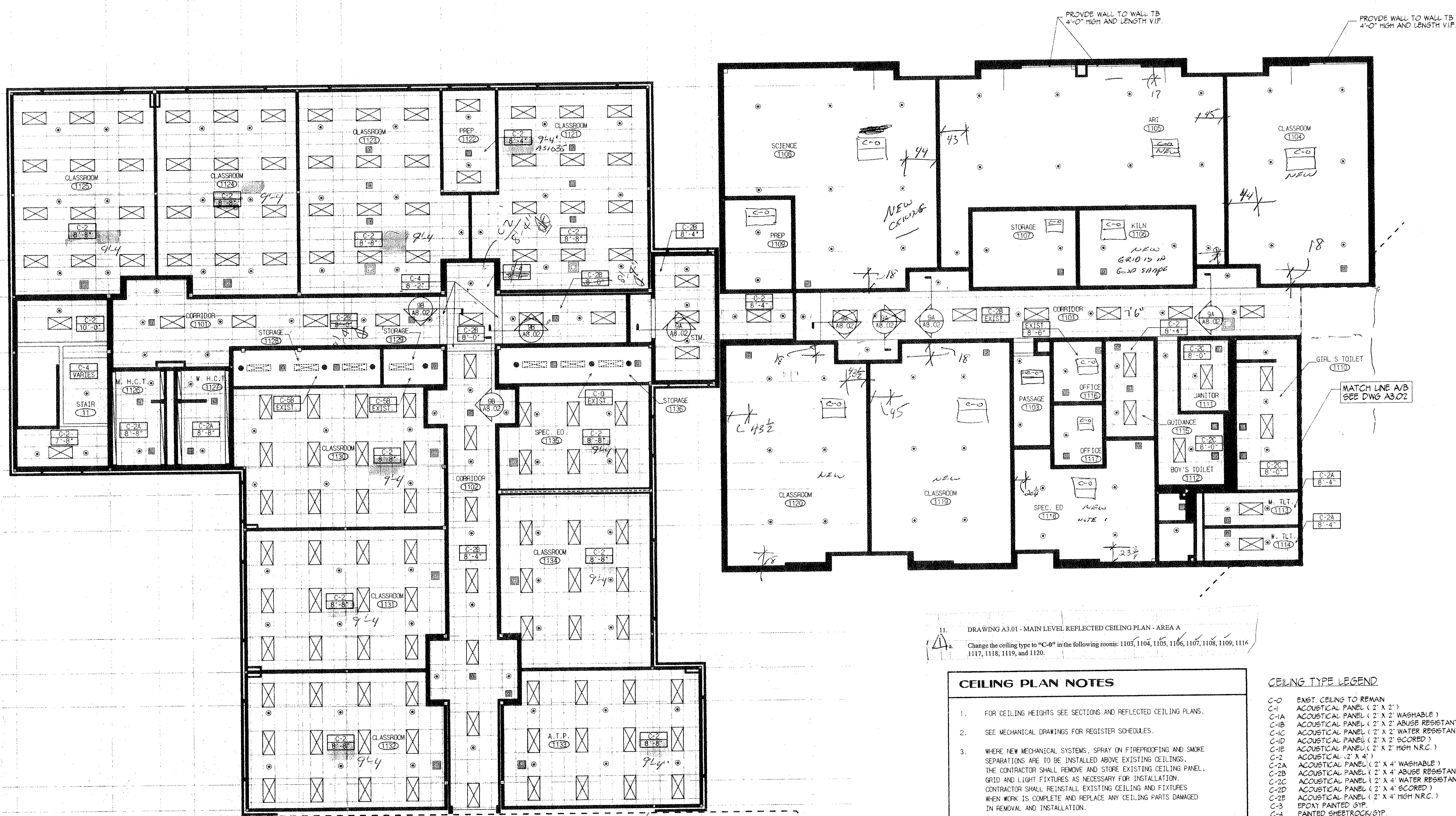
FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R.O.1 & R.O.2



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD, CONNECTICUT
 7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

A A C D E F G H J K L M N

1 2 3 4 5 6 7 8 9 10 11 12 13 14



11. DRAWING A3.01 - MAIN LEVEL REFLECTED CEILING PLAN - AREA A
 Change the ceiling type to "C-0" in the following rooms: 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1116, 1117, 1118, 1119, and 1120.

- CEILING PLAN NOTES**
- FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
 - SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
 - WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING, GRID AND LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.
 - ALL SPRINKLER PIPING IS TO BE LOCATED ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. EXISTING CEILINGS SHALL BE CAREFULLY REMOVED, STORED AND REINSTALLED AFTER SPRINKLER WORK IS COMPLETE. ALL MATERIALS DAMAGED SHALL BE REPLACED TO MATCH EXISTING.
 - SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING PADS. COORDINATE WITH SPRINKLER CONTRACTOR.
 - EXPOSED SPRINKLER INSTALLATION IN EXISTING ROOMS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTING WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT.
 - WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE EXISTING PLASTER OR DRYWALL CEILINGS, AND REMOVE AND STORE EXISTING LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. THE CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.

- CEILING TYPE LEGEND**
- C-0 EXIST. CEILING TO REMAIN
 - C-1 ACOUSTICAL PANEL (2' X 2')
 - C-1A ACOUSTICAL PANEL (2' X 2' WASHABLE)
 - C-1B ACOUSTICAL PANEL (2' X 2' ABUSE RESISTANT)
 - C-1C ACOUSTICAL PANEL (2' X 2' WATER RESISTANT)
 - C-1D ACOUSTICAL PANEL (2' X 2' SCORED)
 - C-1E ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
 - C-2 ACOUSTICAL (2' X 4')
 - C-2A ACOUSTICAL PANEL (2' X 4' WASHABLE)
 - C-2B ACOUSTICAL PANEL (2' X 4' ABUSE RESISTANT)
 - C-2C ACOUSTICAL PANEL (2' X 4' WATER RESISTANT)
 - C-2D ACOUSTICAL PANEL (2' X 4' SCORED)
 - C-2E ACOUSTICAL PANEL (2' X 4' HIGH N.R.C.)
 - C-3 EPOXY PAINTED GYP.
 - C-4 PAINTED SHEETROCK/GYP.
 - C-5A EXPOSED STRUCTURE
 - C-5B PAINTED EXPOSED STRUCTURE

REF: A31.035
 Attn: Carl Morin
 Date: May 24, 2000

Description: Ceiling Height Changes
 Change ceiling height in all classrooms for new addition (Main Level only) to 9'-4".

Attachments:

ISSUED
 By: _____
 Construction Administrator: Freddie N. Khericha

RESPONSE TO REF # 16

Corridor 1101. Increase existing Ceiling height to 7'-6" and relocate piping as required. *OK A-AREA*

Corridor 1201. Increase existing Ceiling height to 7'-6" and relocate piping as required above room # 1211. *OK-B AREA*

Corridor 1201. Maintain existing ceiling heights below room # 1211. *- 8'-0" ? - B-AREA*

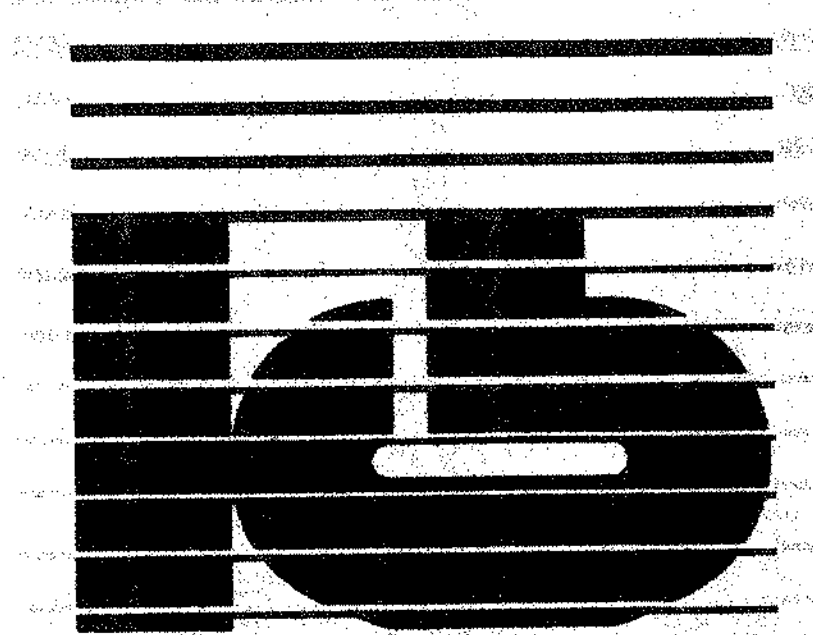
Corridor 1202. Maintain existing ceiling heights. *- 8'-0" ? - CORRAL TO PIPING*

Corridor 1203. Maintain existing ceiling heights. *- 8'-0" ? - CORRAL TO CORRAL*

Corridor 1204. Provide ceiling @ 8'-0" with soffits per sketch attached. *ENTRANCE AREA OF*

Corridor 1205. Maintain existing ceiling heights. *- 8'-0" ? OUTSIDE OF ENTRANCE*

Corridor 1302 - 1305. Maintain existing ceiling heights. *- 1302 MUST BE LOWERED TO 7'-6" FROM 7'-9"*



KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

48, State Rd. New Britain, Connecticut 06250-2990 (860) 229-0001
 Drawn by: M.SORANO Scale: 1/8" = 1'-0"

MAIN LEVEL REFLECTED CEILING PLAN AREA A

Project no. 1807B Drawing no. _____

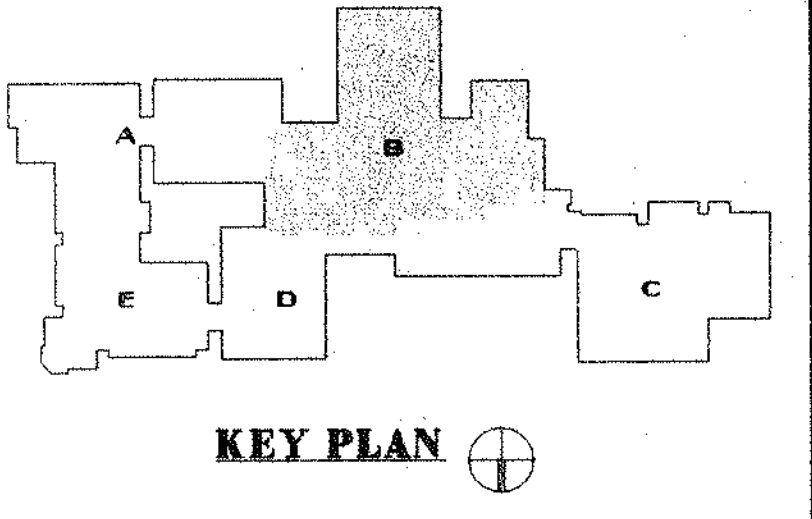
Date: FEBRUER 16, 1999 **A3.01**

CEILING PLAN NOTES

- FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
- SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING PANEL, GRID AND LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.
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- EXPOSED SPRINKLER INSTALLATION IN EXISTING ROOMS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTING WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE EXISTING PLASTER OR DRYWALL CEILINGS, AND REMOVE AND STORE EXISTING LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. THE CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.

CEILING TYPE LEGEND

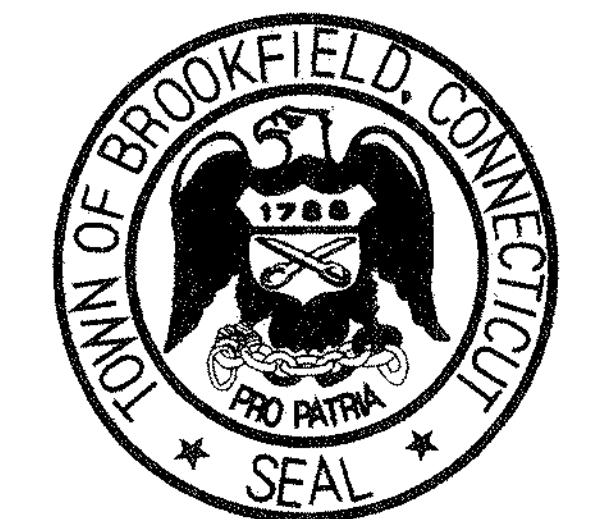
- C-0 EXIST. CEILING TO REMAIN
- C-1 ACOUSTICAL PANEL (2' X 2')
- C-1A ACOUSTICAL PANEL (2' X 2' WASHABLE)
- C-2 ACOUSTICAL PANEL (2' X 2' ABUSE RESISTANT)
- C-2A ACOUSTICAL PANEL (2' X 2' WATER RESISTANT)
- C-2B ACOUSTICAL PANEL (2' X 2' SCORED)
- C-2C ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2D ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2E ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2F ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2G ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2H ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2I ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2J ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2K ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2L ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2M ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2N ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2O ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2P ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2Q ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2R ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2S ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2T ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2U ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2V ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2W ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2X ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2Y ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2Z ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-3 BROXY PAINTED GYP
- C-4 PAINTED SHEETROCK/GYP
- C-5A EXPOSED STRUCTURE
- C-5B PAINTED EXPOSED STRUCTURE



REVISIONS

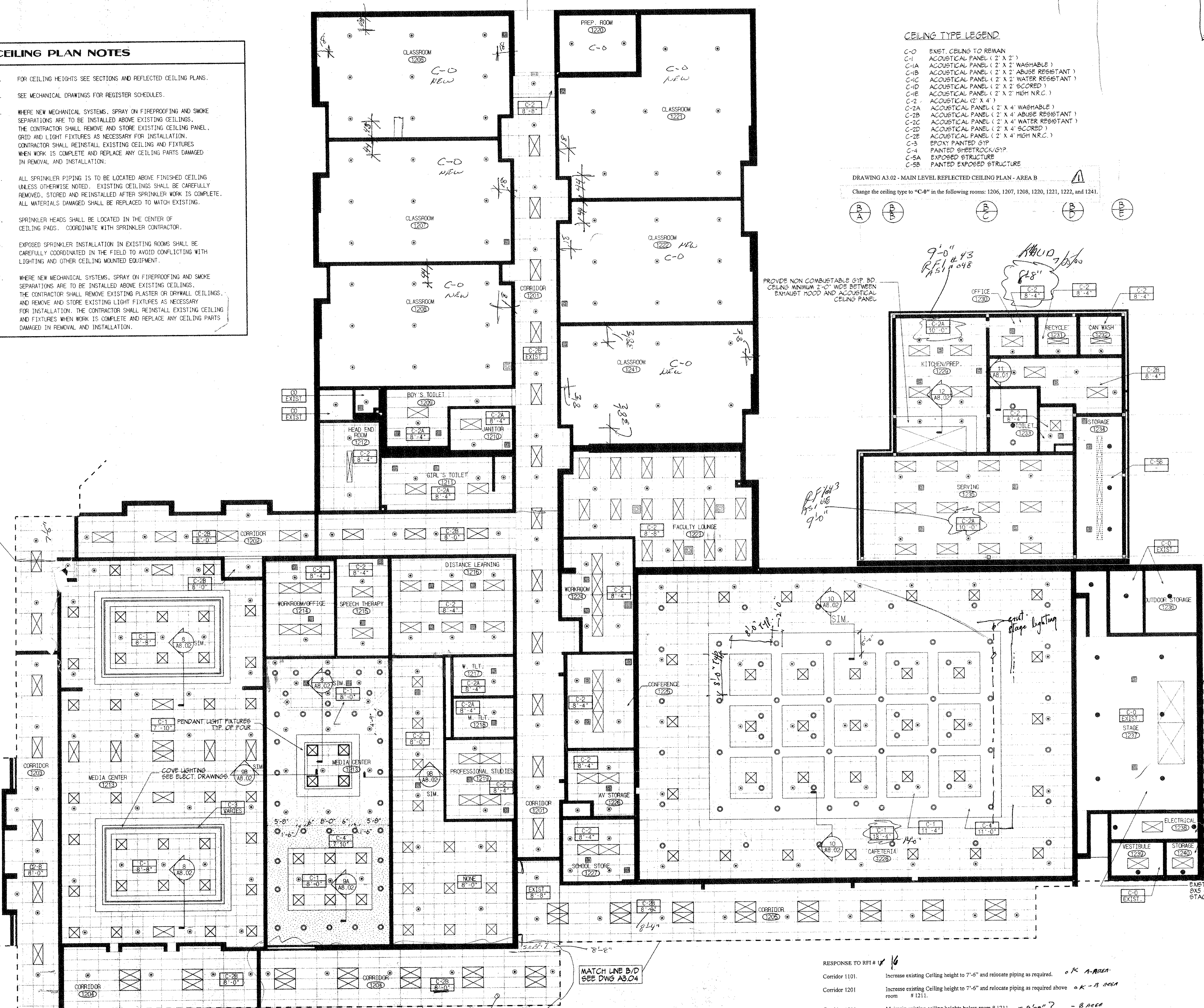
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BOIDS AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
 7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

DRAWING A3.02 - MAIN LEVEL REFLECTED CEILING PLAN - AREA B
 Change the ceiling type to "C-0" in the following rooms: 1206, 1207, 1208, 1220, 1221, 1222, and 1241.



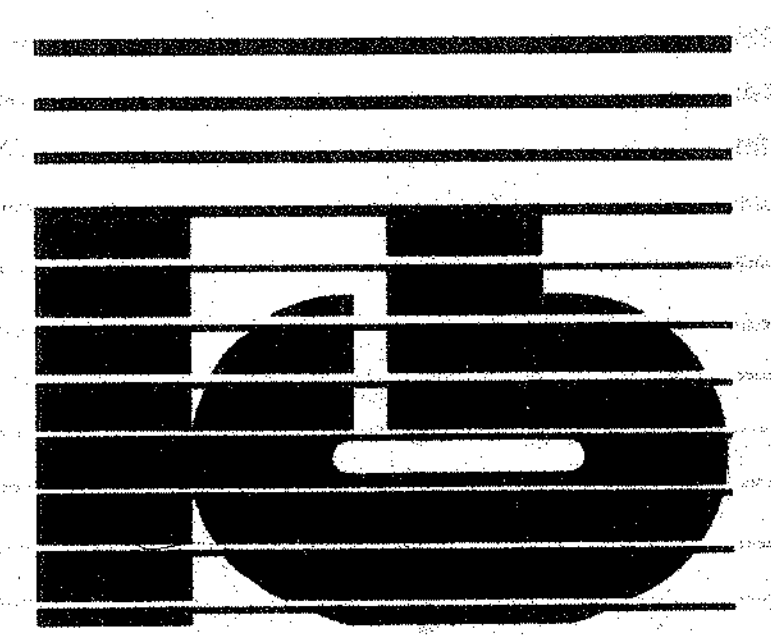
PROVIDE NON COMBUSTIBLE GYP BD CEILING MINIMUM 2'-0" WIDE BETWEEN EXHAUST HOOD AND ACOUSTICAL CEILING PANEL

EXISTING SMOKE HATCHES 8x5 = 40 SF. STAGE AREA = 800 SF. 8' x 5' = 40 SF.

RESPONSE TO REF # 16

Corridor 1101	Increase existing ceiling height to 7'-6" and relocate piping as required.	OK A-AREA
Corridor 1201	Increase existing ceiling height to 7'-6" and relocate piping as required above room # 1211.	OK B-AREA
Corridor 1201	Maintain existing ceiling heights below room # 1211. - 8'-8" ? - B AREA	
Corridor 1202	Maintain existing ceiling heights. - 8'-8" ? - COORDINATE TO PERMITS	
Corridor 1203	Maintain existing ceiling heights. - 8'-8" ? - COORDINATE TO PERMITS	
Corridor 1204	Provide ceiling @ 8'-0" with soffits per sketch attached. ENTRANCE AREA OK.	
Corridor 1205	Maintain existing ceiling heights. - 8'-8" ? OUTSIDE OF CAFETERIA	
Corridor 1302 - 1305	Maintain existing ceiling heights. - 13'0" MUST BE MAINTAINED 7'-6" r.	

SEE RFI # 03
 COORDINATE CEILING TO BE 13'-0" WIDE WITH 5' HATCHES ON BOTH SIDES.
 SEE NOTE IN DRAWING REGARDING HATCHES AND FIRE COMPARTMENT



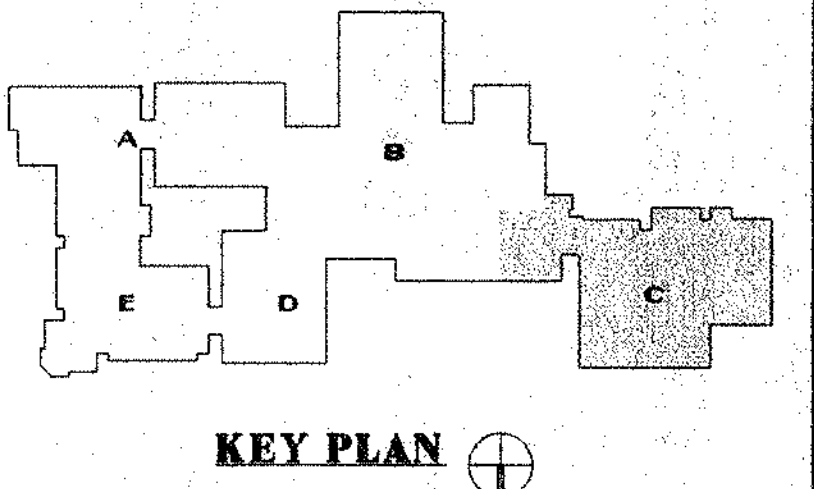
KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 State St. New Britain, Connecticut 06050-2590 (860) 229-0061
 Drawn by: CAD Scale: 1/8" = 1'-0"

MAIN LEVEL REFLECTED CEILING PLAN AREA B

Project no. 1807B Drawing no.

Date: DECEMBER 16, 1998 **A3.02**



REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS R.01 & R.02

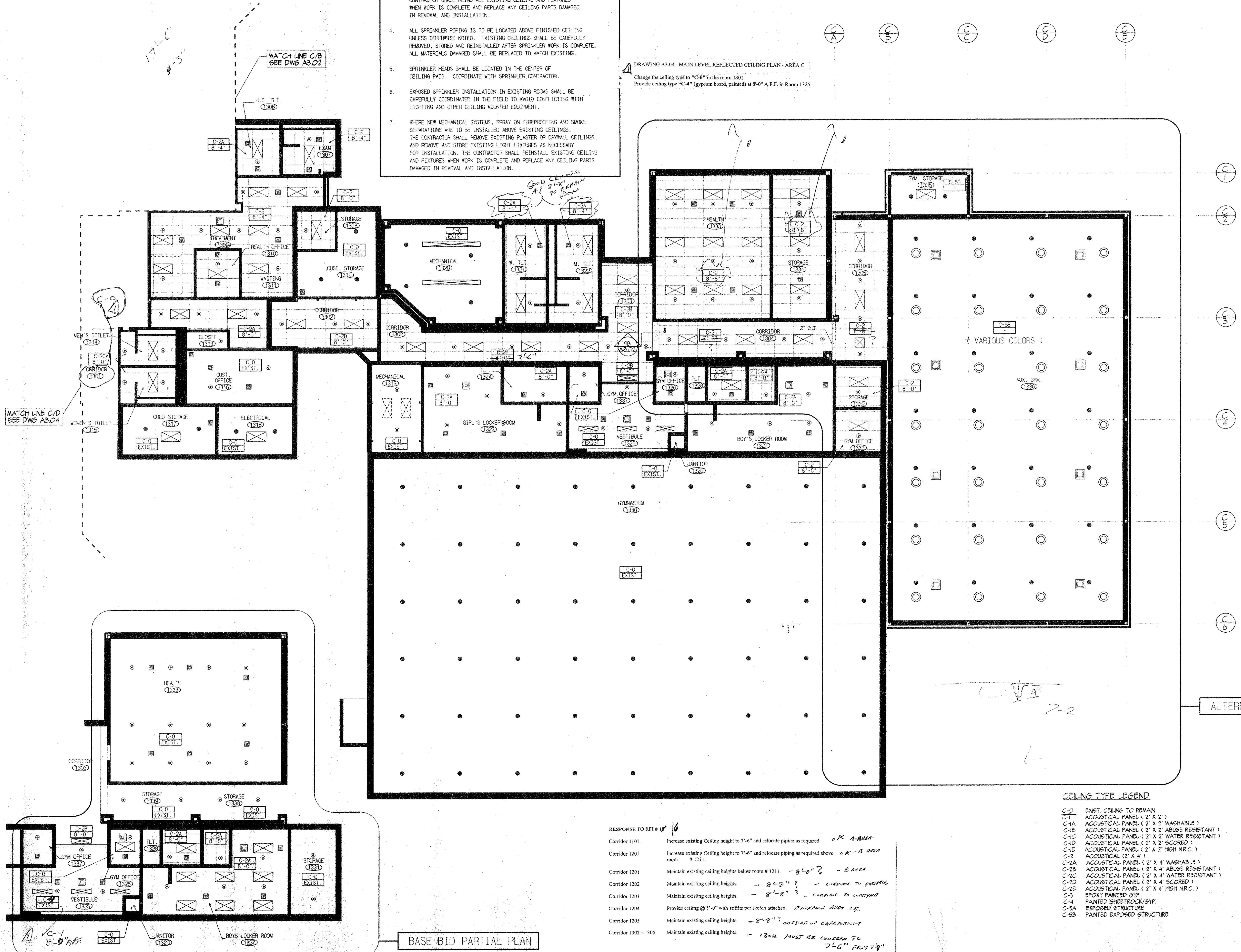


ADDITIONS AND RENOVATIONS TO THE WHISCONIOR MIDDLE SCHOOL BROOKFIELD, CONNECTICUT
 7 WEST WHISCONIOR ROAD BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

CEILING PLAN NOTES

- FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
- SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING PANEL, GRID AND LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.
- ALL SPRINKLER PIPING IS TO BE LOCATED ABOVE FINISHED CEILING UNLESS OTHERWISE NOTED. EXISTING CEILINGS SHALL BE CAREFULLY REMOVED, STORED AND REINSTALLED AFTER SPRINKLER WORK IS COMPLETE. ALL MATERIALS DAMAGED SHALL BE REPLACED TO MATCH EXISTING.
- SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING PADS. COORDINATE WITH SPRINKLER CONTRACTOR.
- EXPOSED SPRINKLER INSTALLATION IN EXISTING ROOMS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTING WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE EXISTING PLASTER OR DRYWALL CEILINGS, AND REMOVE AND STORE EXISTING LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. THE CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.

DRAWING A3.03 - MAIN LEVEL REFLECTED CEILING PLAN - AREA C
 a. Change the ceiling type to "C-0" in the room 1301.
 b. Provide ceiling type "C-4" (gypsum board, painted) at 8'-0" A.F.F. in Room 1325



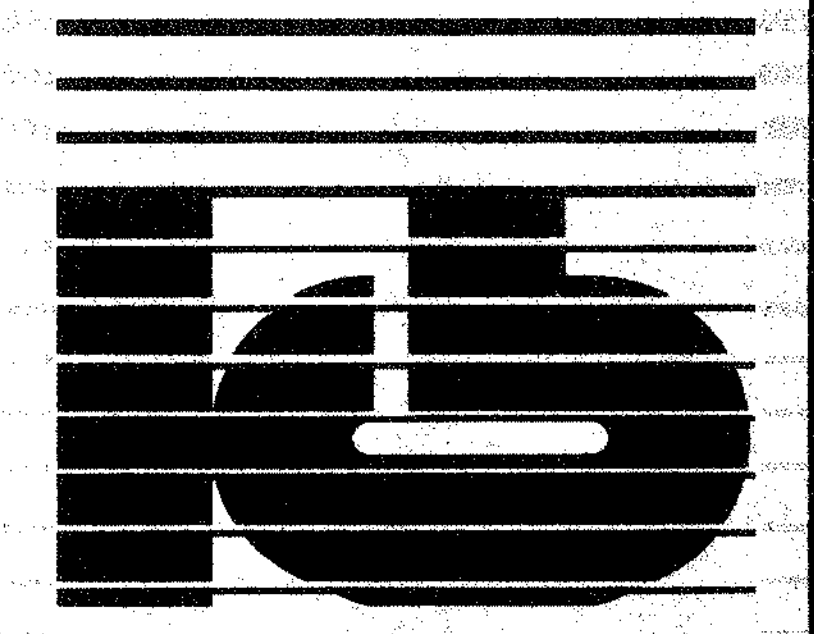
RESPONSE TO RFI # 16

Corridor 1101	Increase existing Ceiling height to 7'-6" and relocate piping as required. <i>OK A-AREA</i>
Corridor 1201	Increase existing Ceiling height to 7'-6" and relocate piping as required above room # 1211. <i>OK A-AREA</i>
Corridor 1201	Maintain existing ceiling heights below room # 1211. <i>- 8'-2" ? - B AREA</i>
Corridor 1202	Maintain existing ceiling heights. <i>- 8'-2" ? - CORRIDOR TO POSTING</i>
Corridor 1203	Maintain existing ceiling heights. <i>- 8'-2" ? - CORRIDOR TO LOCKER</i>
Corridor 1204	Provide ceiling @ 8'-0" with soffits per sketch attached. <i>ENTRANCE AREA OK</i>
Corridor 1205	Maintain existing ceiling heights. <i>- 8'-2" ? OUTSIDE OF CAFETERIA</i>
Corridor 1302 - 1305	Maintain existing ceiling heights. <i>- 13-2 MUST BE LOWERED TO 7'-6" FROM 7'-9"</i>

CEILING TYPE LEGEND

C-0	EXIST. CEILING TO REMAIN
C-1	ACOUSTICAL PANEL (2' X 2')
C-1A	ACOUSTICAL PANEL (2' X 2') WASHABLE
C-1B	ACOUSTICAL PANEL (2' X 2') ABUSE RESISTANT
C-1C	ACOUSTICAL PANEL (2' X 2') WATER RESISTANT
C-1D	ACOUSTICAL PANEL (2' X 2') SCORED
C-1E	ACOUSTICAL PANEL (2' X 2') HIGH N.R.C.
C-2	ACOUSTICAL (2' X 4')
C-2A	ACOUSTICAL PANEL (2' X 4') WASHABLE
C-2B	ACOUSTICAL PANEL (2' X 4') ABUSE RESISTANT
C-2C	ACOUSTICAL PANEL (2' X 4') WATER RESISTANT
C-2D	ACOUSTICAL PANEL (2' X 4') SCORED
C-2E	ACOUSTICAL PANEL (2' X 4') HIGH N.R.C.
C-3	BROWN PAINTED GYP.
C-4	PAINTED SHEETROCK/GYP.
C-5A	EXPOSED STRUCTURE
C-5B	PAINTED EXPOSED STRUCTURE

BASE BID PARTIAL PLAN



KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

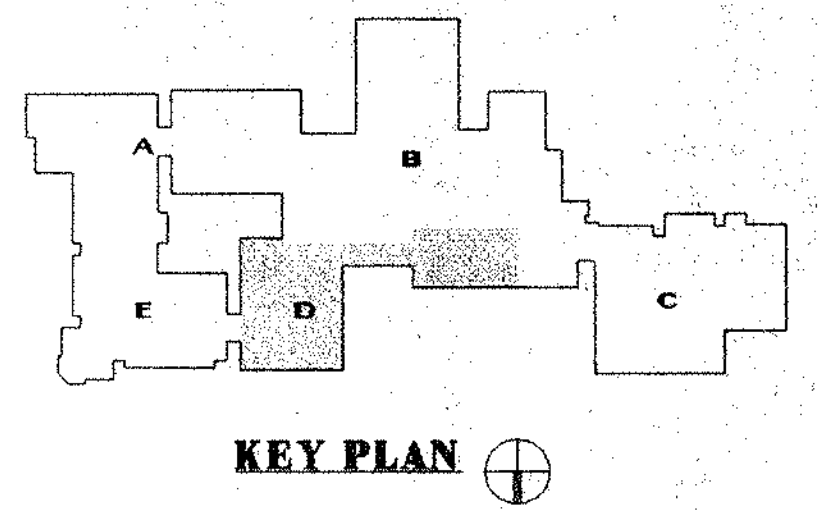
46 State Rd., New Britain, Connecticut 06050-5500 (860) 229-0200
 Drawn by: MSORANO Scale: 1/8" = 1'-0"
MAIN LEVEL REFLECTED CEILING PLAN AREA C

CEILING PLAN NOTES

- FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
- SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING PANEL, GRID AND LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.
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- EXPOSED SPRINKLER INSTALLATION IN EXISTING ROOMS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTING WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT.
- WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE EXISTING PLASTER OR DRYWALL CEILINGS, AND REMOVE AND STORE EXISTING LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. THE CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.

CEILING TYPE LEGEND

- C-0 EXST. CEILING TO REMAN
- C-1 ACOUSTICAL PANEL (2' X 2')
- C-1A ACOUSTICAL PANEL (2' X 2' WASHABLE)
- C-1B ACOUSTICAL PANEL (2' X 2' ABUSE RESISTANT)
- C-1C ACOUSTICAL PANEL (2' X 2' WATER RESISTANT)
- C-1D ACOUSTICAL PANEL (2' X 2' SCORED)
- C-1E ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2 ACOUSTICAL (2' X 4')
- C-2A ACOUSTICAL PANEL (2' X 4' WASHABLE)
- C-2B ACOUSTICAL PANEL (2' X 4' ABUSE RESISTANT)
- C-2C ACOUSTICAL PANEL (2' X 4' WATER RESISTANT)
- C-2D ACOUSTICAL PANEL (2' X 4' SCORED)
- C-2E ACOUSTICAL PANEL (2' X 4' HIGH N.R.C.)
- C-3 EPOXY PAINTED GYP.
- C-4 PAINTED SHEETROCK/GYP.
- C-5A EXPOSED STRUCTURE
- C-5B PAINTED EXPOSED STRUCTURE

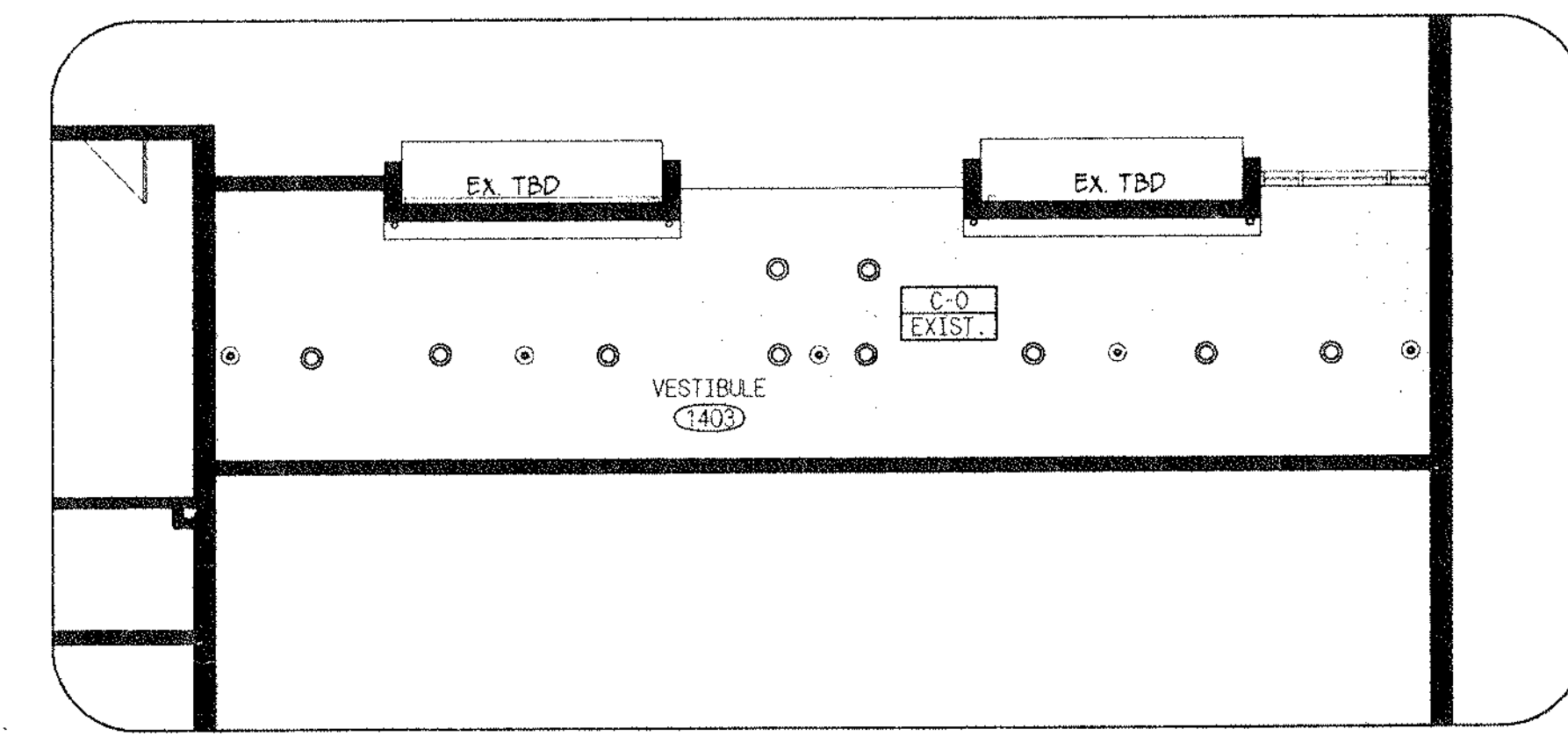
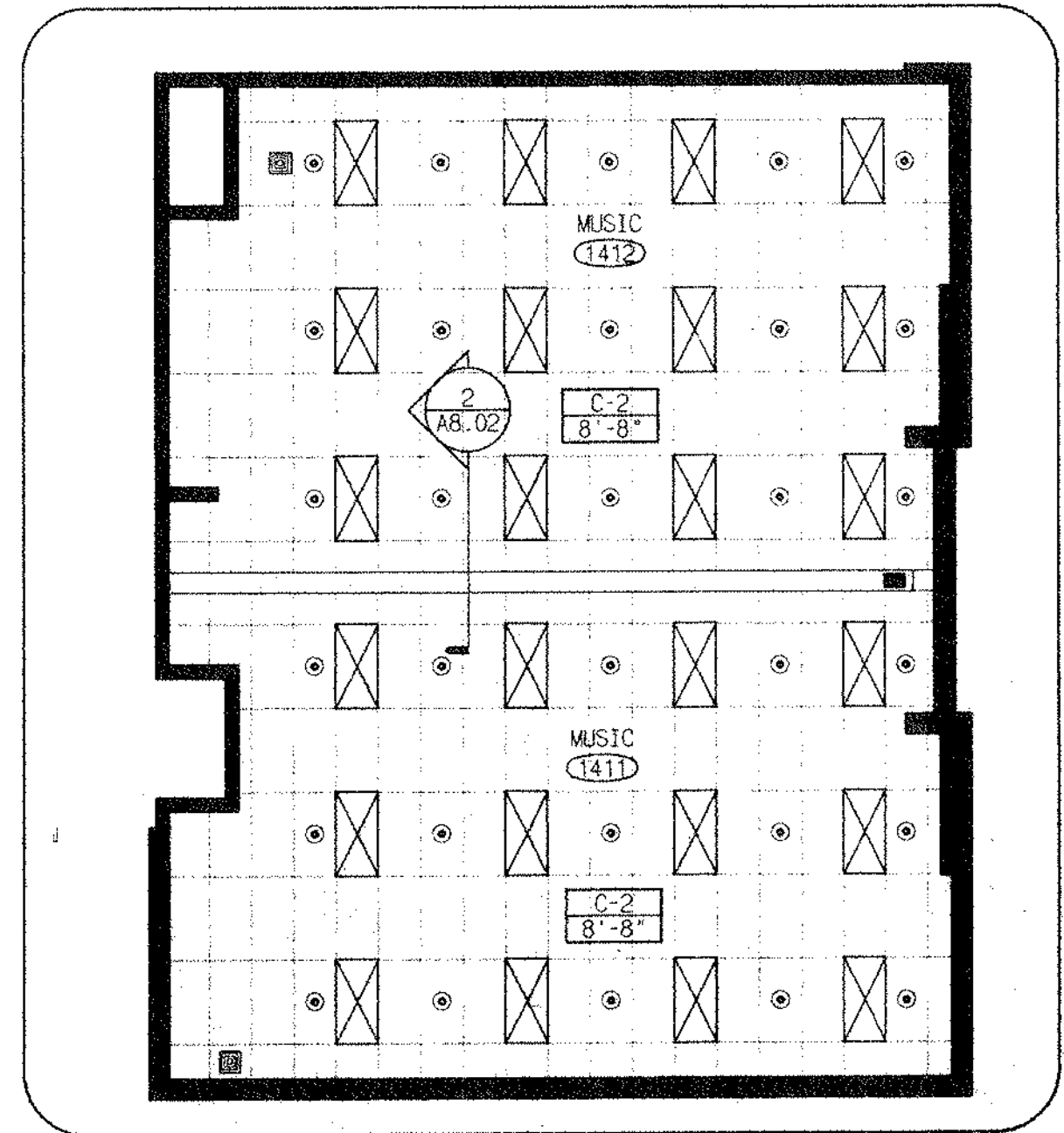
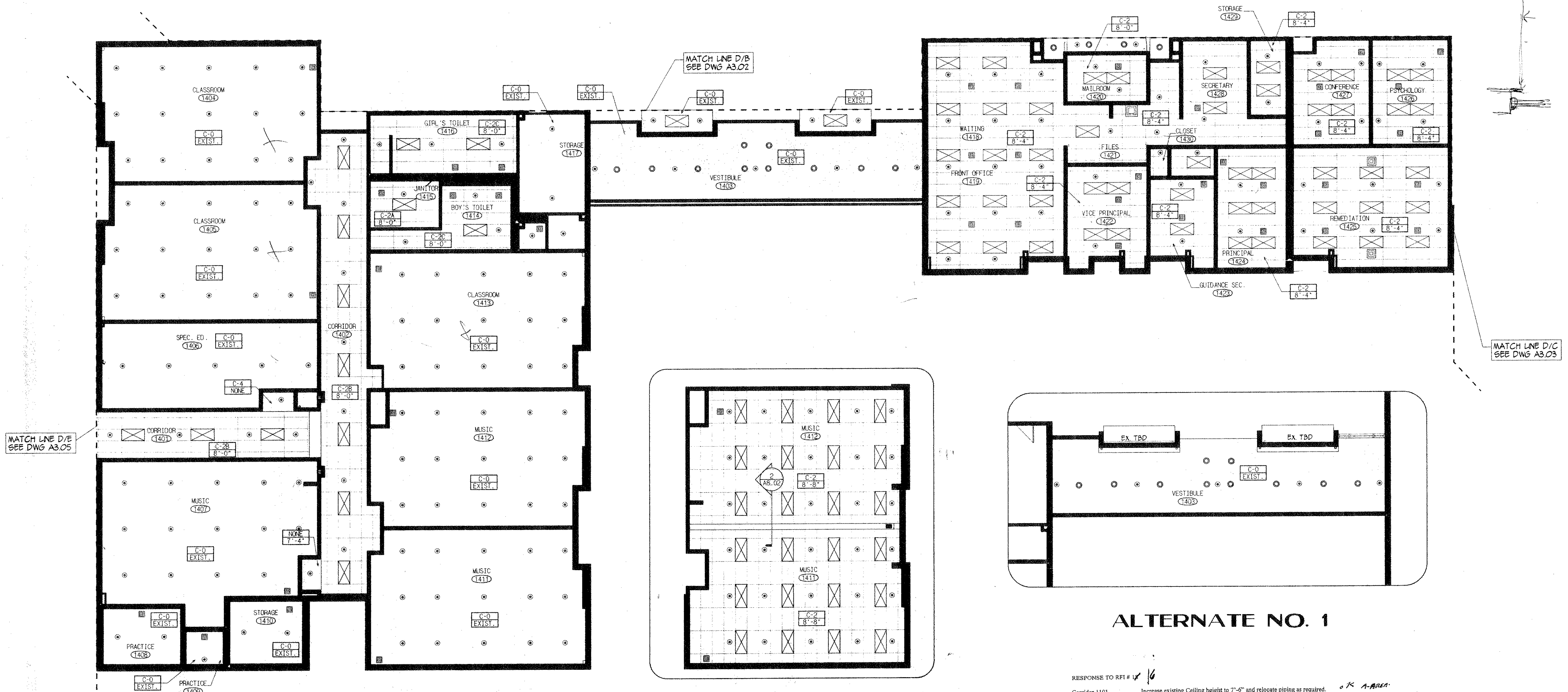


REVISIONS		
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R.O.1 & R.O.2



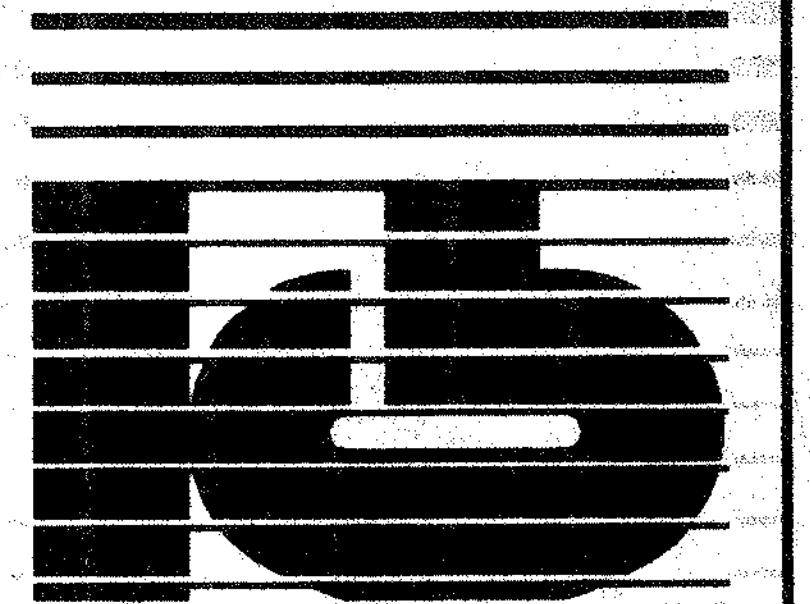
ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
 7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH



ALTERNATE NO. 2

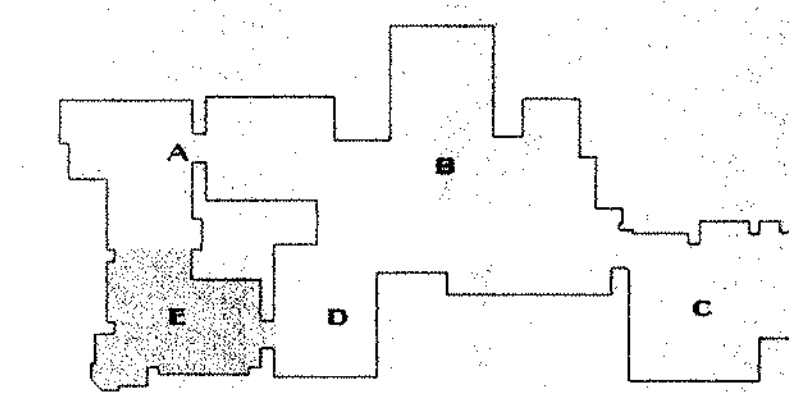
ALTERNATE NO. 1

- RESPONSE TO RFI # 16
- Corridor 1101. Increase existing Ceiling height to 7'-6" and relocate piping as required. *OK A-AREA*
 - Corridor 1201. Increase existing Ceiling height to 7'-6" and relocate piping as required above room # 1211. *OK B-AREA*
 - Corridor 1201. Maintain existing ceiling heights below room # 1211. *- 8'-0" ? - B AREA*
 - Corridor 1202. Maintain existing ceiling heights. *- 8'-8" ? - CORRELATE TO QUEING*
 - Corridor 1203. Maintain existing ceiling heights. *- 8'-8" ? - CORRELATE TO QUEING*
 - Corridor 1204. Provide ceiling @ 8'-0" with soffits per sketch attached. *ENTRANCE AREA OK.*
 - Corridor 1205. Maintain existing ceiling heights. *- 8'-8" ? outside of CABINETRY*
 - Corridor 1302 - 1305. Maintain existing ceiling heights. *- 1302 MUST BE LOWERED TO 7'-6" FROM 7'-9"*



KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 State Rd. New Britain, Connecticut 06050-2590 (860) 228-0381
 Drawn by: M. BORGANO Scale: 1/8" = 1'-0"
MAIN LEVEL REFLECTED CEILING PLAN AREA D



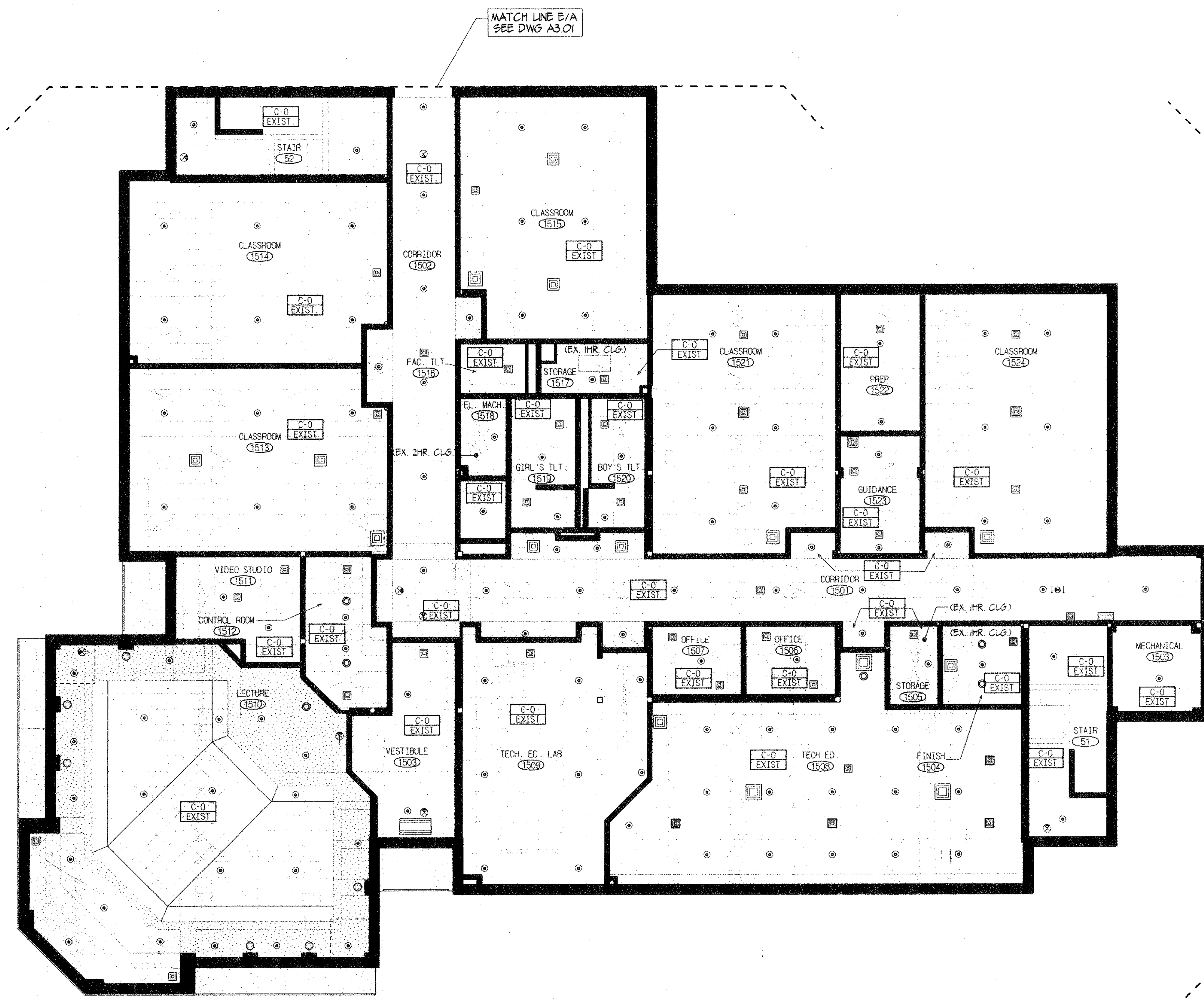
KEY PLAN

REVISIONS		
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R.O.01 & R.O.02



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD, CONNECTICUT
 7 WEST WHISCONIER ROAD BROOKFIELD, CT. 06084
 STATE PROJECT NO. 019-043 EA & 019-041 A/TCH



MATCH LINE E/A SEE DWG A3.01

MATCH LINE E/D SEE DWG A3.04

- CEILING PLAN NOTES**
- FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
 - SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
 - WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, THE CONTRACTOR SHALL REMOVE AND STORE EXISTING CEILING PANEL, GRID AND LIGHT FIXTURES AS NECESSARY FOR INSTALLATION. CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.
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RESPONSE TO RFI # 16

Corridor 1101.	Increase existing Ceiling height to 7'-6" and relocate piping as required. <i>OK A-AREA</i>
Corridor 1201	Increase existing Ceiling height to 7'-6" and relocate piping as required above room # 1211. <i>OK - B AREA</i>
Corridor 1201	Maintain existing ceiling heights below room # 1211. <i>- 8'-8" ? - B AREA</i>
Corridor 1202	Maintain existing ceiling heights. <i>- 8'-8" ? - CORRIDOR TO WESTING</i>
Corridor 1203	Maintain existing ceiling heights. <i>- 8'-8" ? - CORRIDOR TO WESTING</i>
Corridor 1204	Provide ceiling @ 8'-0" with soffits per sketch attached. <i>TEMPORARY ADD OK</i>
Corridor 1205	Maintain existing ceiling heights. <i>- 8'-8" ? OUTSIDE OF CAPTUREMENT</i>
Corridor 1302 - 1305	Maintain existing ceiling heights. <i>- 1302 MUST BE CORRECTED TO 7'-6" FROM 7'-9"</i>

CEILING TYPE LEGEND

- C-0 EXIST. CEILING TO REMAIN
- C-1 ACoustICAL PANEL (2' X 2')
- C-1A ACoustICAL PANEL (2' X 2' WASHABLE)
- C-1B ACoustICAL PANEL (2' X 2' ABUSE RESISTANT)
- C-1C ACoustICAL PANEL (2' X 2' WATER RESISTANT)
- C-1D ACoustICAL PANEL (2' X 2' SCORED)
- C-1E ACoustICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2 ACoustICAL (2' X 4')
- C-2A ACoustICAL PANEL (2' X 4' WASHABLE)
- C-2B ACoustICAL PANEL (2' X 4' ABUSE RESISTANT)
- C-2C ACoustICAL PANEL (2' X 4' WATER RESISTANT)
- C-2D ACoustICAL PANEL (2' X 4' SCORED)
- C-2E ACoustICAL PANEL (2' X 4' HIGH N.R.C.)
- C-3 BRONX PAINTED GYP.
- C-4 PAINTED SHEETROCK GYP.
- C-5A EXPOSED STRUCTURE
- C-5B PAINTED EXPOSED STRUCTURE



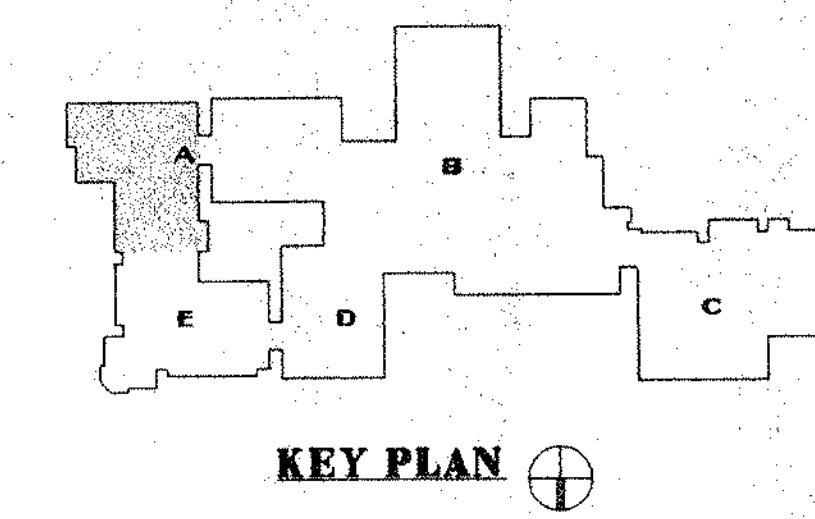
KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

445 Slater Rd., New Britain, Connecticut 06050-2900 860-224-0381
 Drawn by: M. MONTANA Scale: 1/8" = 1'-0"

MAIN LEVEL REFLECTED CEILING PLAN AREA E

Project no. 180718 Drawing no.

Date: DECEMBER 16, 1998 **A3.05**

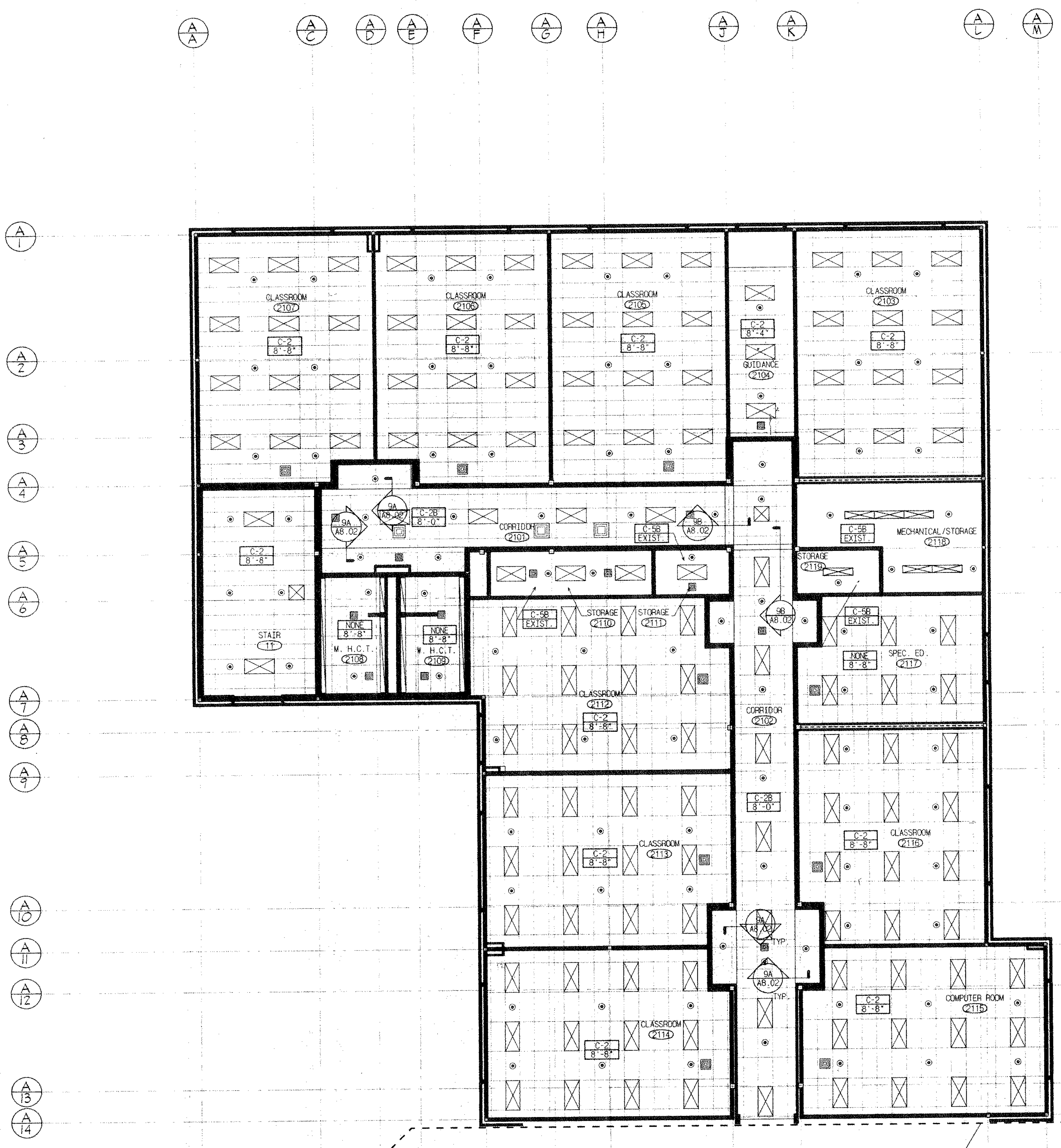


REVISIONS		
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R0.01 & R0.02



ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
 BROOKFIELD, CONNECTICUT
 7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH



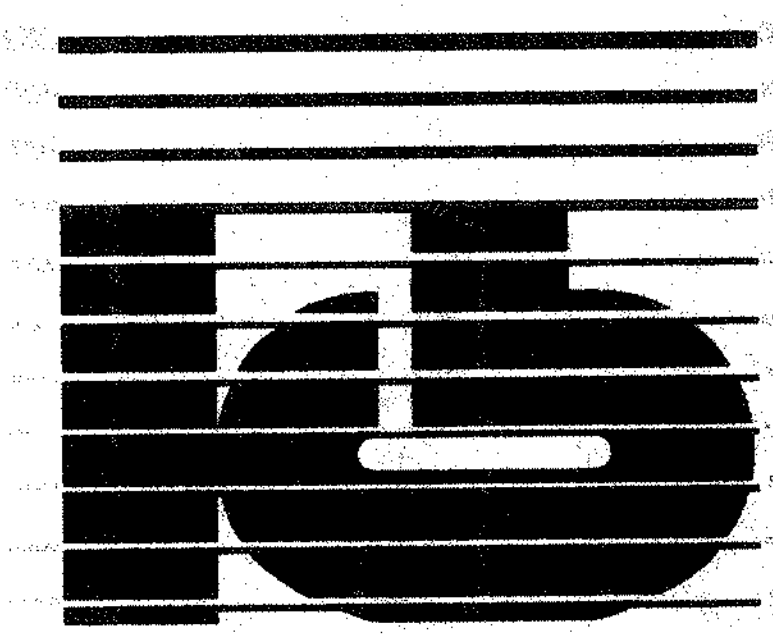
CEILING TYPE LEGEND

- C-0 EXIST. CEILING TO REMAIN
- C-1 ACOUSTICAL PANEL (2' X 2')
- C-1A ACOUSTICAL PANEL (2' X 2' WASHABLE)
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- C-2A ACOUSTICAL PANEL (2' X 4' WASHABLE)
- C-2B ACOUSTICAL PANEL (2' X 4' ABUSE RESISTANT)
- C-2C ACOUSTICAL PANEL (2' X 4' WATER RESISTANT)
- C-2D ACOUSTICAL PANEL (2' X 4' SCORED)
- C-2E ACOUSTICAL PANEL (2' X 4' HIGH N.R.C.)
- C-3 EPOXY PAINTED GYP.
- C-4 PAINTED SHEETROCK/GYP.
- C-5A EXPOSED STRUCTURE
- C-5B PAINTED EXPOSED STRUCTURE

CEILING PLAN NOTES

1. FOR CEILING HEIGHTS SEE SECTIONS AND REFLECTED CEILING PLANS.
2. SEE MECHANICAL DRAWINGS FOR REGISTER SCHEDULES.
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MATCH LINE A/E
SEE DWG A3.07



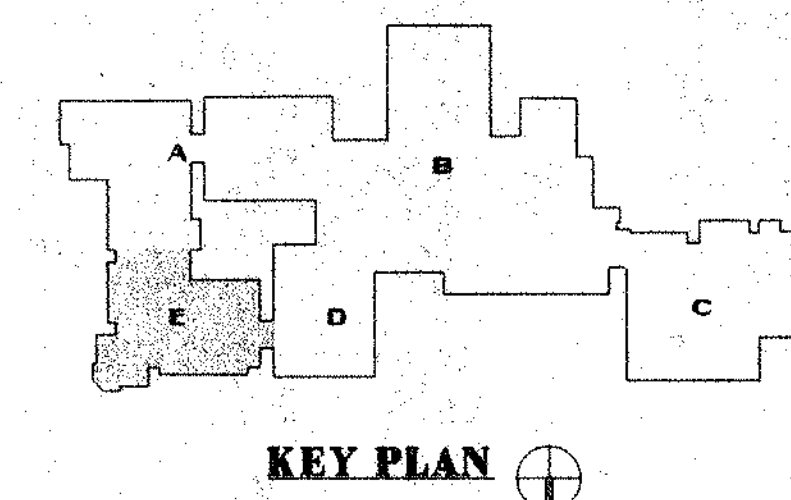
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

415 State St., New Britain, Connecticut 06052-2540, BRN 229-0300
 Drawn by: M. MCNTANA Scale: 1/8" = 1'-0"

UPPER LEVEL REFLECTED CEILING PLAN AREA A

Project no. 1807B Drawing no.

Date: DECEMBER 16, 1998 **A3.06**

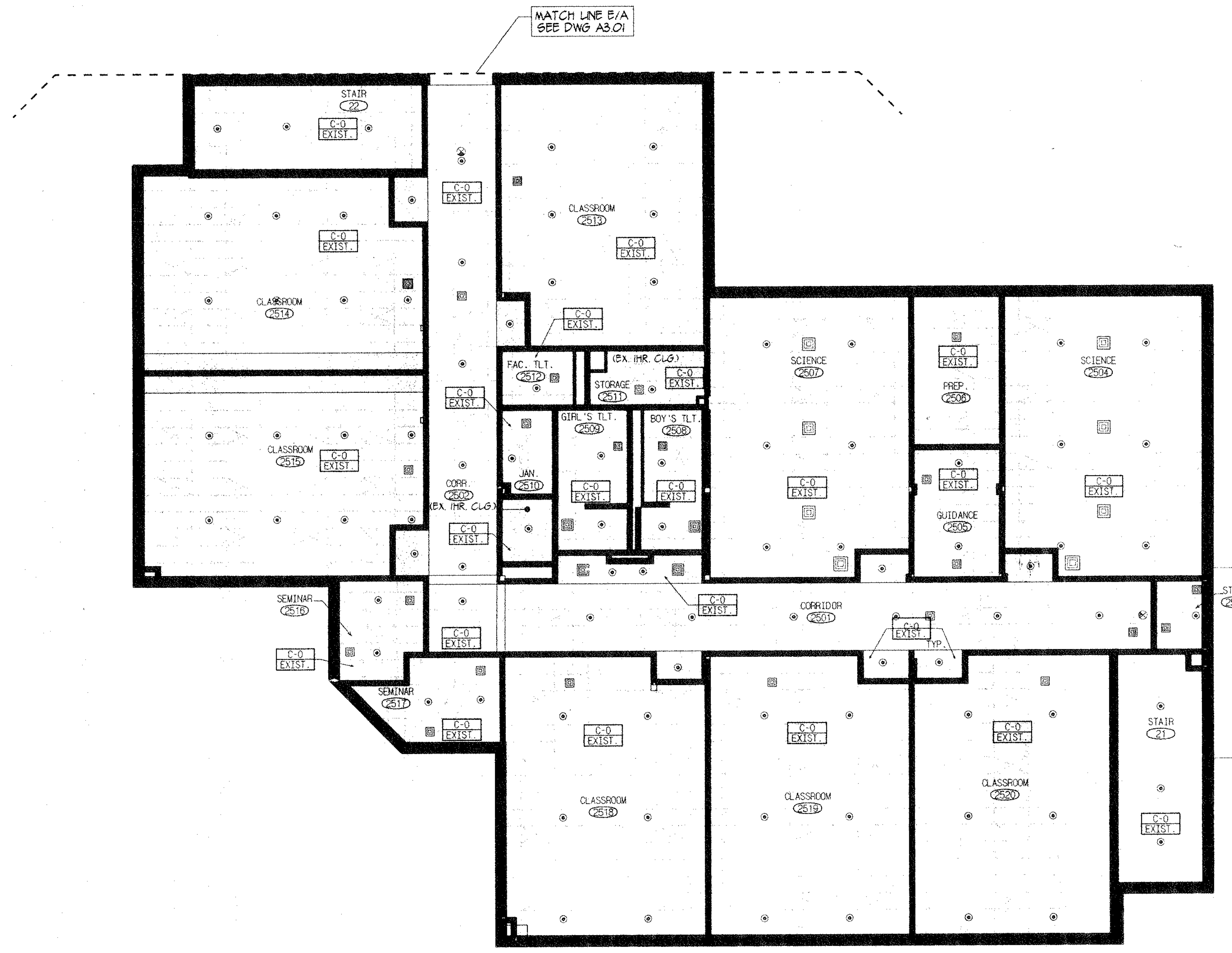


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OCTOBER 5, 1999		DRAWINGS ISSUED FOR RECORD AND CONSTRUCTION PURPOSES

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ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
 7 WEST WHISCONIER ROAD BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

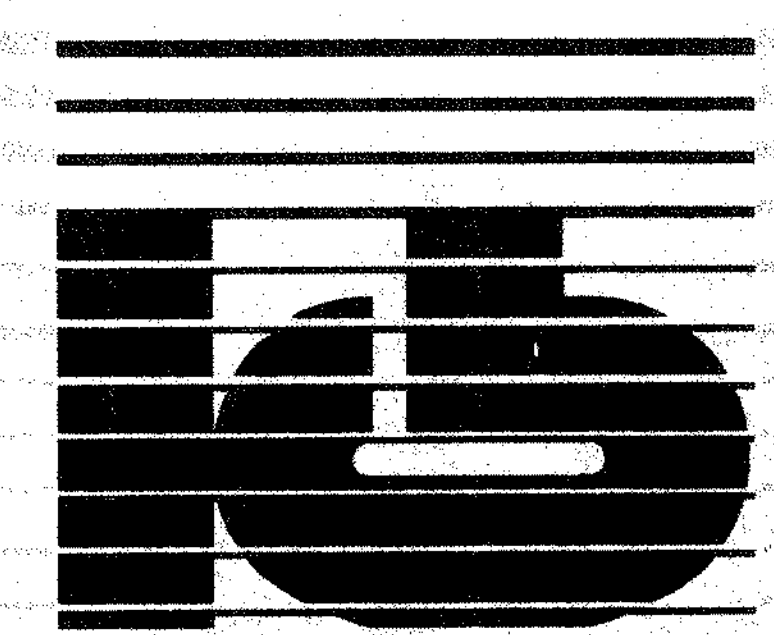


CEILING TYPE LEGEND

- C-0 EXIST. CEILINGS TO REMAIN
- C-1 ACOUSTICAL PANEL (2' X 2')
- C-1A ACOUSTICAL PANEL (2' X 2' WASHABLE)
- C-1B ACOUSTICAL PANEL (2' X 2' ABUSE RESISTANT)
- C-1C ACOUSTICAL PANEL (2' X 2' WATER RESISTANT)
- C-1D ACOUSTICAL PANEL (2' X 2' SCORED)
- C-1E ACOUSTICAL PANEL (2' X 2' HIGH N.R.C.)
- C-2 ACOUSTICAL (2' X 4')
- C-2A ACOUSTICAL PANEL (2' X 4' WASHABLE)
- C-2B ACOUSTICAL PANEL (2' X 4' ABUSE RESISTANT)
- C-2C ACOUSTICAL PANEL (2' X 4' WATER RESISTANT)
- C-2D ACOUSTICAL PANEL (2' X 4' SCORED)
- C-2E ACOUSTICAL PANEL (2' X 4' HIGH N.R.C.)
- C-3 EPDM PAINTED GYP
- C-4 PAINTED SHEETROCK GYP
- C-5A EXPOSED STRUCTURE
- C-5B PAINTED EXPOSED STRUCTURE

CEILING PLAN NOTES

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5. SPRINKLER HEADS SHALL BE LOCATED IN THE CENTER OF CEILING PAUS. COORDINATE WITH SPRINKLER CONTRACTOR.
6. EXPOSED SPRINKLER INSTALLATION IN EXISTING ROOMS SHALL BE CAREFULLY COORDINATED IN THE FIELD TO AVOID CONFLICTING WITH LIGHTING AND OTHER CEILING MOUNTED EQUIPMENT.
7. WHERE NEW MECHANICAL SYSTEMS, SPRAY ON FIREPROOFING AND SMOKE SEPARATIONS ARE TO BE INSTALLED ABOVE EXISTING CEILINGS, AND REMOVE AND STORE EXISTING LIGHT FIXTURES AS NECESSARY. FOR INSTALLATION, THE CONTRACTOR SHALL REINSTALL EXISTING CEILING AND FIXTURES WHEN WORK IS COMPLETE AND REPLACE ANY CEILING PARTS DAMAGED IN REMOVAL AND INSTALLATION.




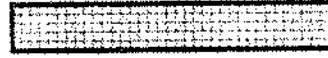


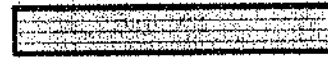


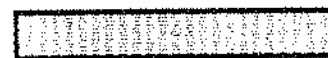
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

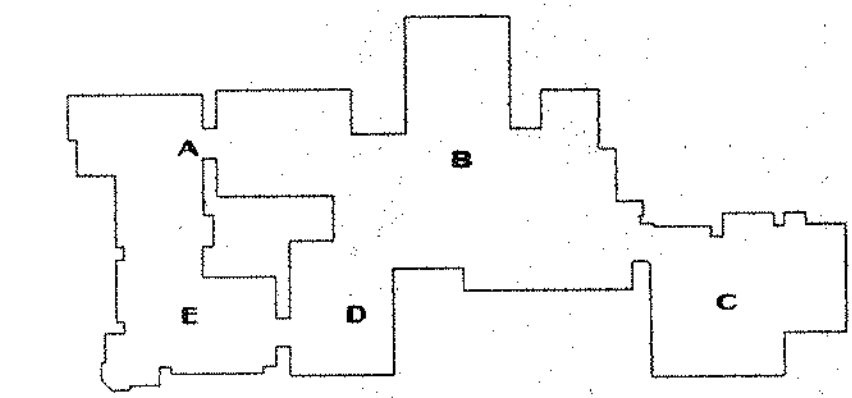
416 State Rd. New Britain, Connecticut 06050-2520 (860) 229-0361
 Drawn by: M. MONTANA Scale: 1/8" = 1'-0"

UPPER LEVEL REFLECTED CEILING PLAN AREA E

Project no. 1807B Drawing no.

FINISH PLAN LEGEND

-  CARPET
-  VINYL COMPOSITION TILE
-  CERAMIC TILE
-  HARDENED CONCRETE
-  POURED RESIN
-  RUBBER TILE / RISERS / LANDINGS
-  RUBBER SPORTS FLOOR
-  ENTRY MAT



KEY PLAN

DATE	MARK	REVISIONS	DESCRIPTION
JANUARY 4, 1999			DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999			DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

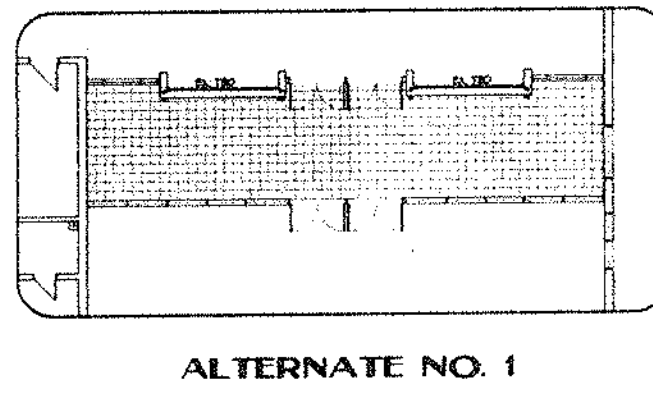
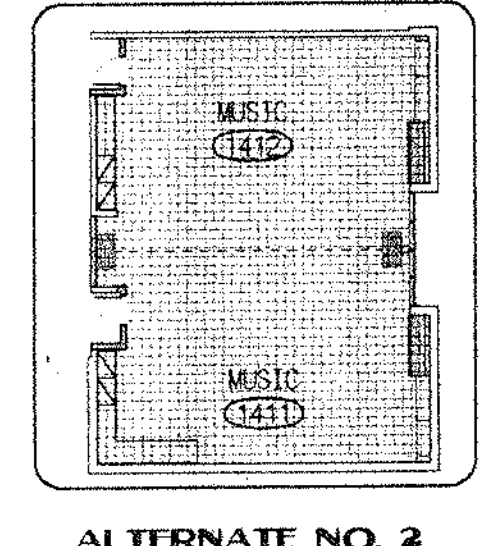
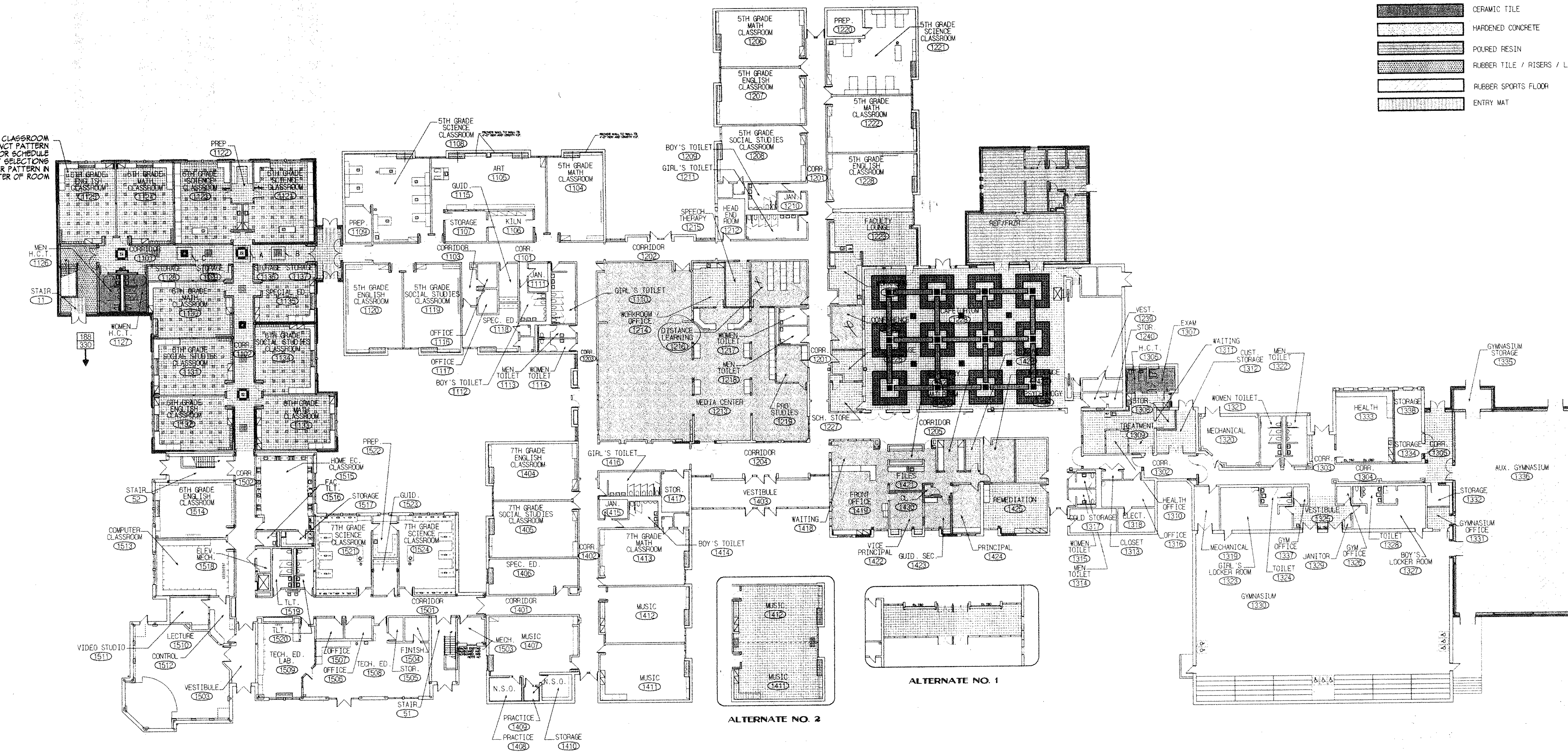
FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R.O.01 & R.O.02



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT

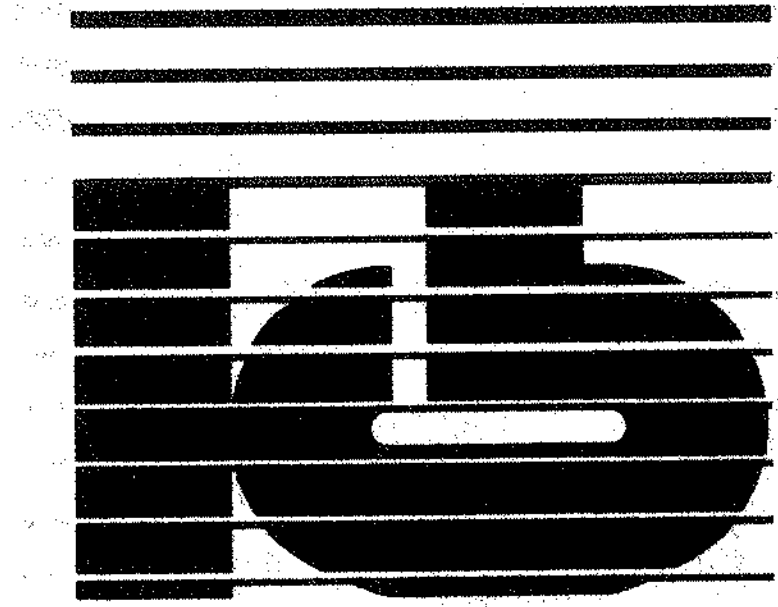
7 WEST WHISCONIER ROAD
BROOKFIELD, CT. 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

TYPICAL CLASSROOM VCT PATTERN SEE COLOR SCHEDULE FOR VCT SELECTIONS CENTER PATTERN IN CENTER OF ROOM



NOTE: ALL FLOOR FINISHES TO EXTEND TO MEET WALL AND/OR BASE OF CABEWORk

NOTE: FINISH PLANS SHOULD BE USED IN CONJUNCTION WITH FINISH SCHEDULES. SHOULD THERE BE A DISCREPANCY BETWEEN INFORMATION GIVEN ON THE FINISH / COLOR SCHEDULE & ANY OTHER DRAWING IN THE SET, THE HIGHER QUALITY FINISH SHALL BE PROVIDED.




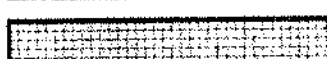




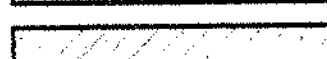

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

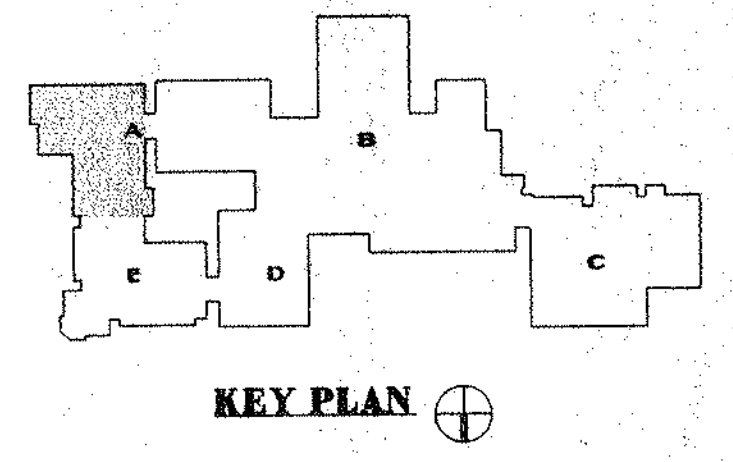
476 Slater Rd., New Britain, Connecticut 06050-2590 (860) 229-0300
Drawn by: _____ Scale: 1/4" = 1'-0"

OVERALL MAIN LEVEL FINISH FLOOR PLAN

Project: 98078 Drawing no. _____
Date: DECEMBER 16, 1998 **A14.03**

FINISH PLAN LEGEND

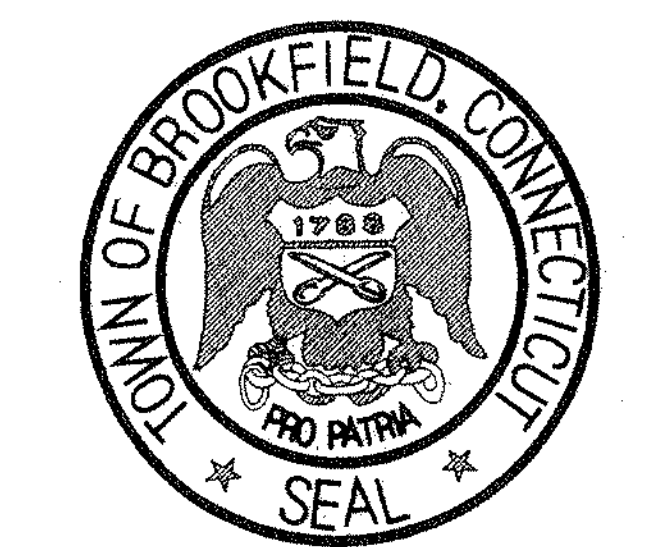
-  CARPET
-  VINYL COMPOSITION TILE
-  CERAMIC TILE
-  HARDENED CONCRETE
-  Poured RESIN
-  RUBBER TILE / RISERS / LANDINGS
-  RUBBER SPORTS FLOOR
-  ENTRY MAT



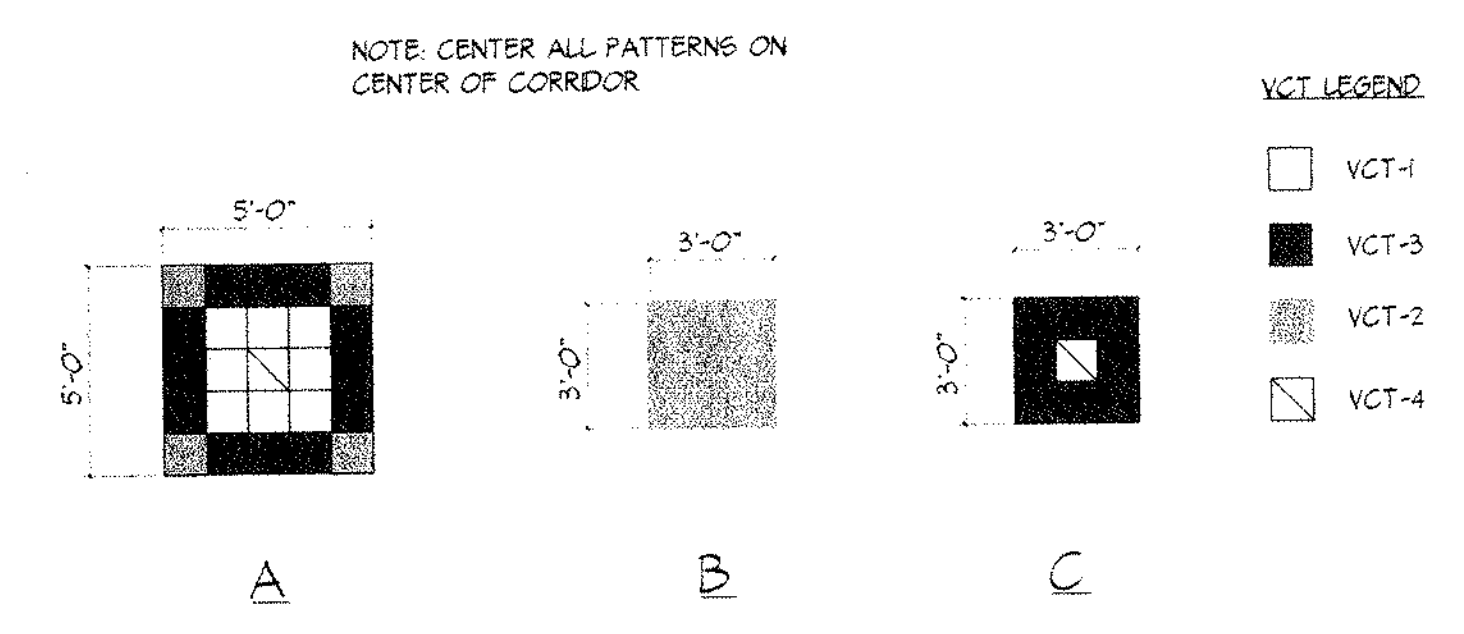
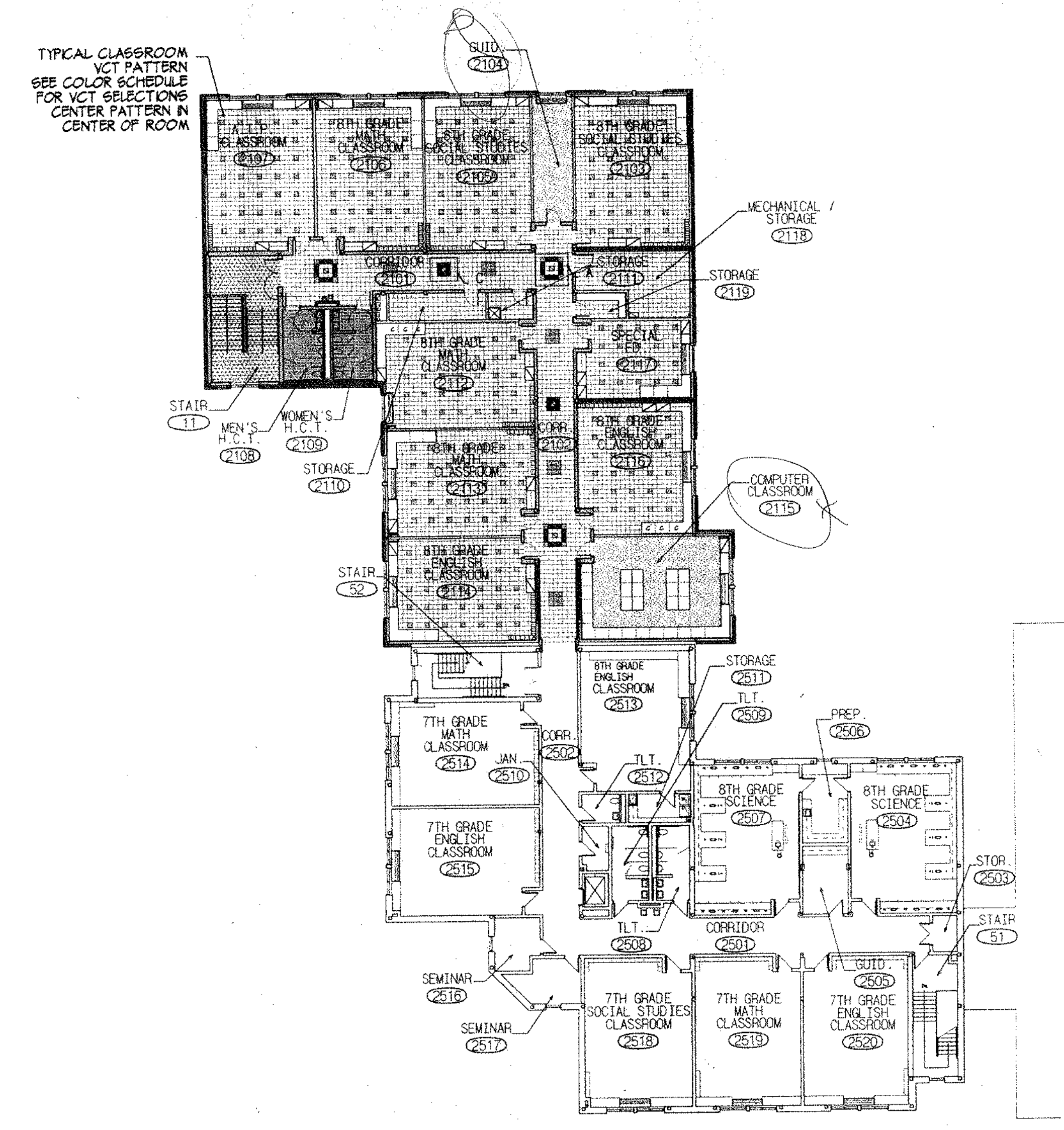
REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE REVIEW
OCTOBER 5, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES

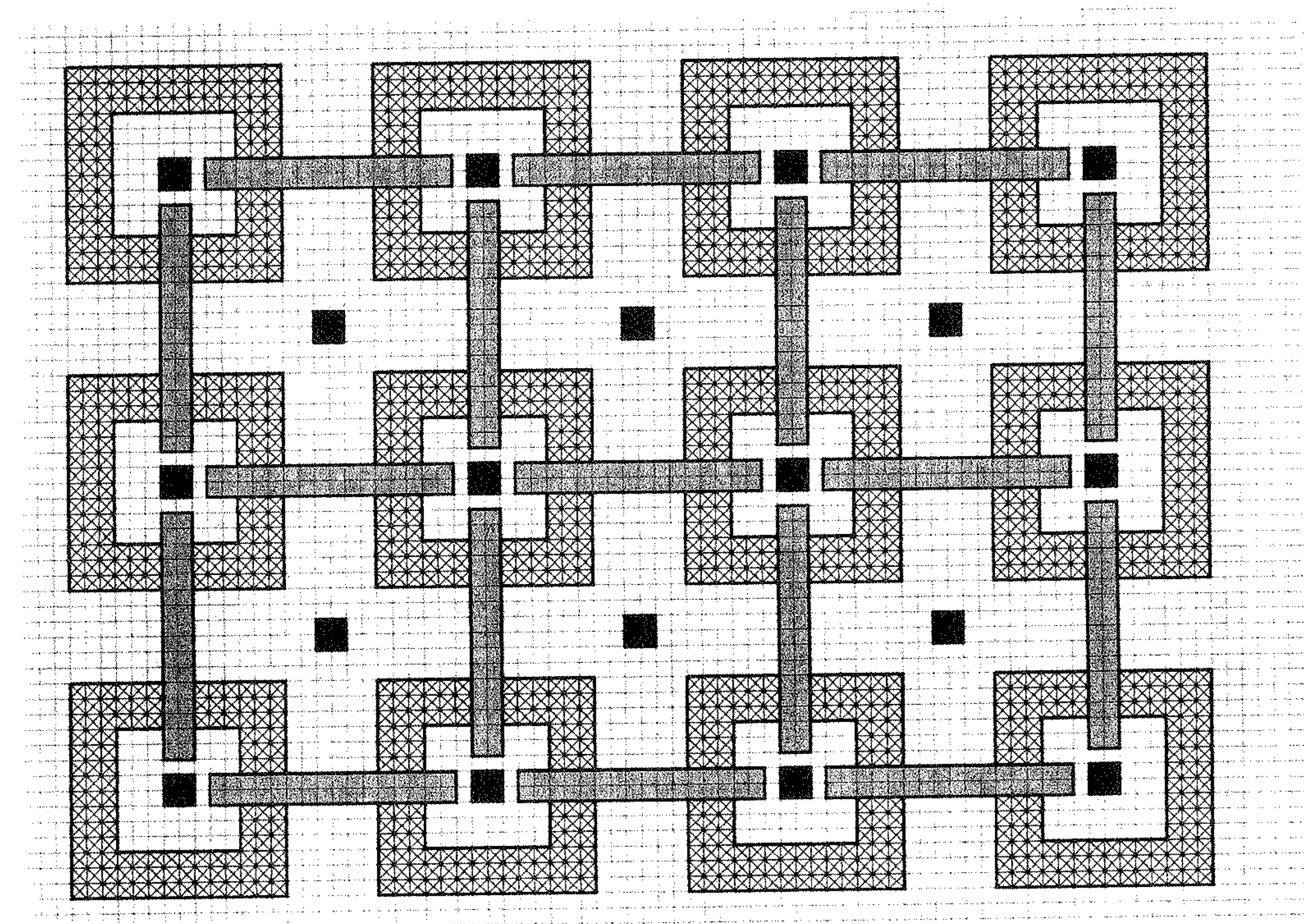
FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS RO.01 & RO.02







ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
 7 WEST WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

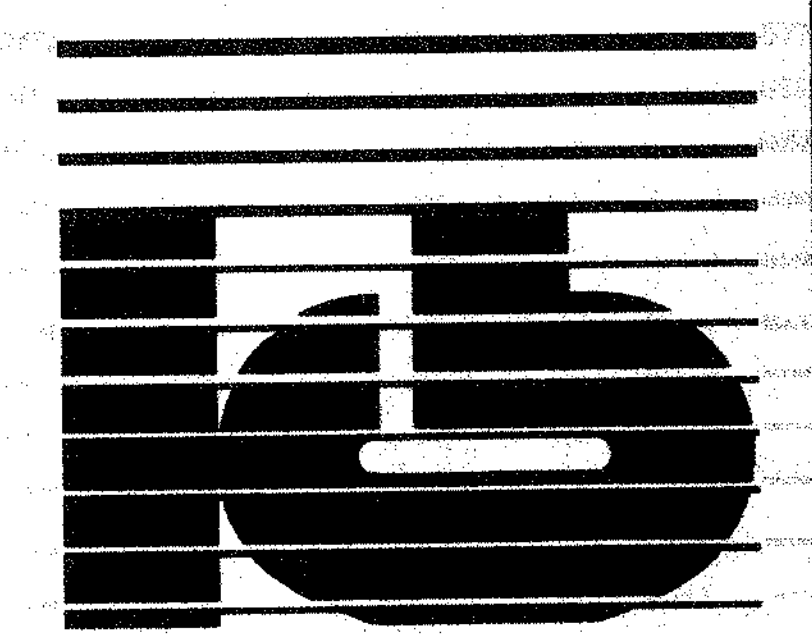


CORRIDOR VCT PATTERNS



CAFETERIA VCT PATTERN

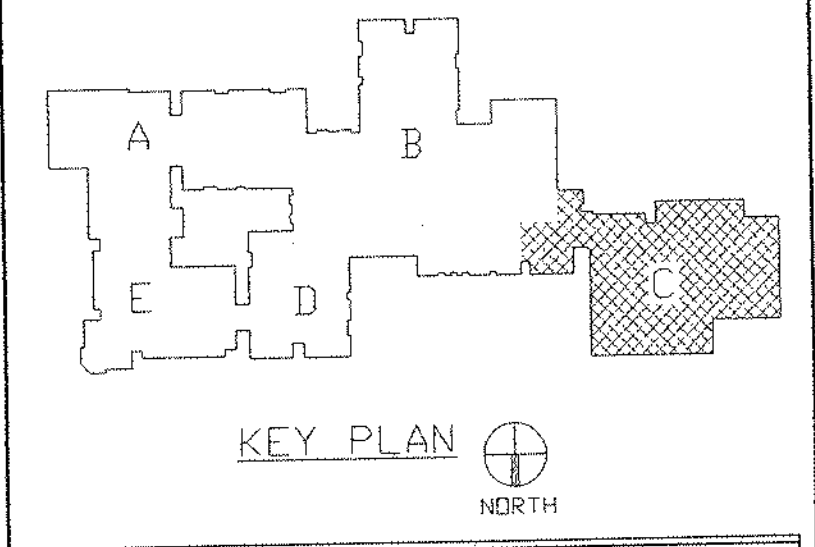
- VCT LEGEND:
-  VCT-1
 -  VCT-2
 -  VCT-5
 -  VCT-6



KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

418 Slater Rd., New Britain, Connecticut 06050-2500 860-229-0393
 Drawn by: KB Scale: 3/64" = 1'-0"

UPPER LEVEL FINISH FLOOR PLAN



REVISIONS

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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/CH

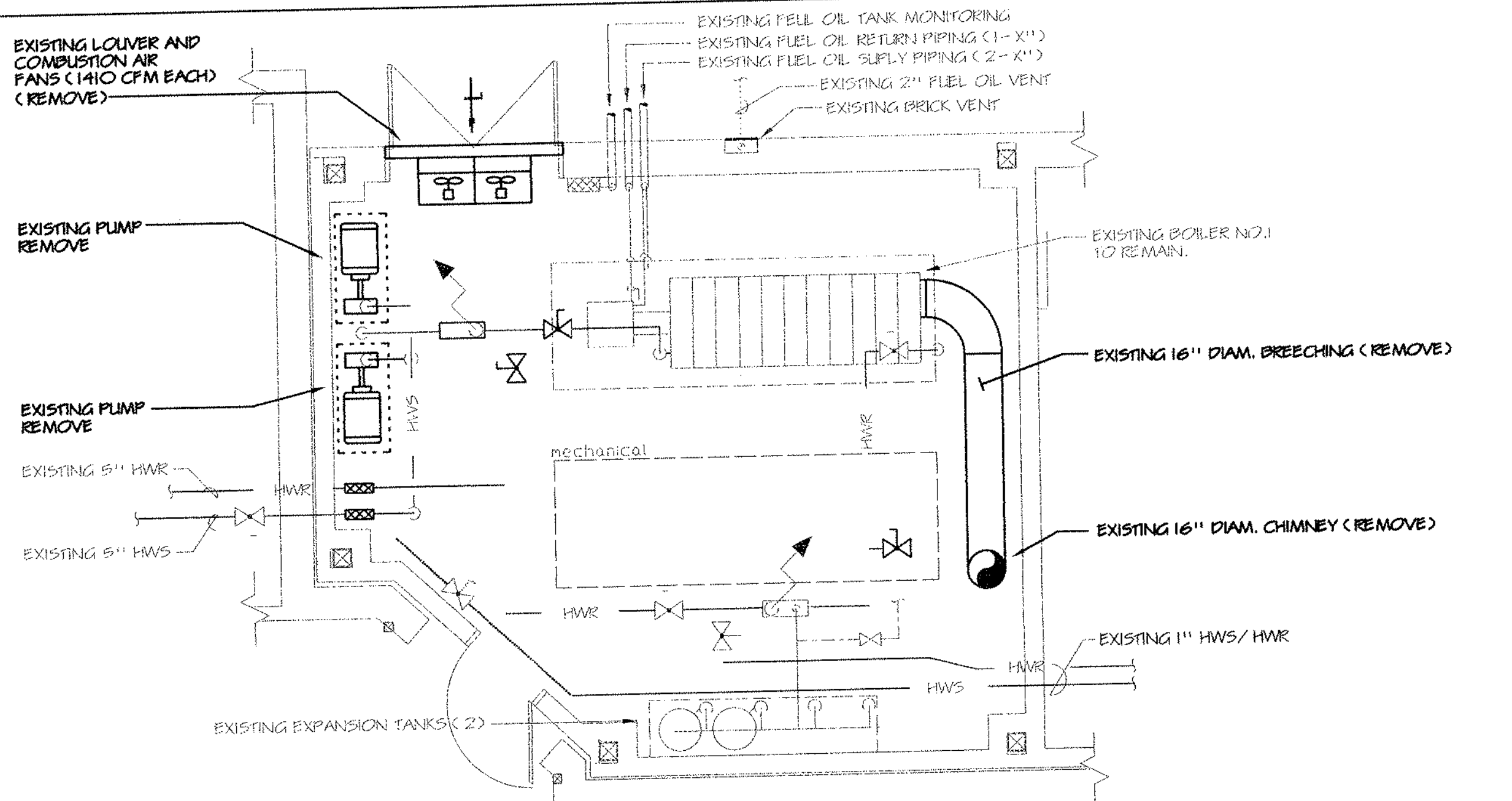
WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516

KB
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

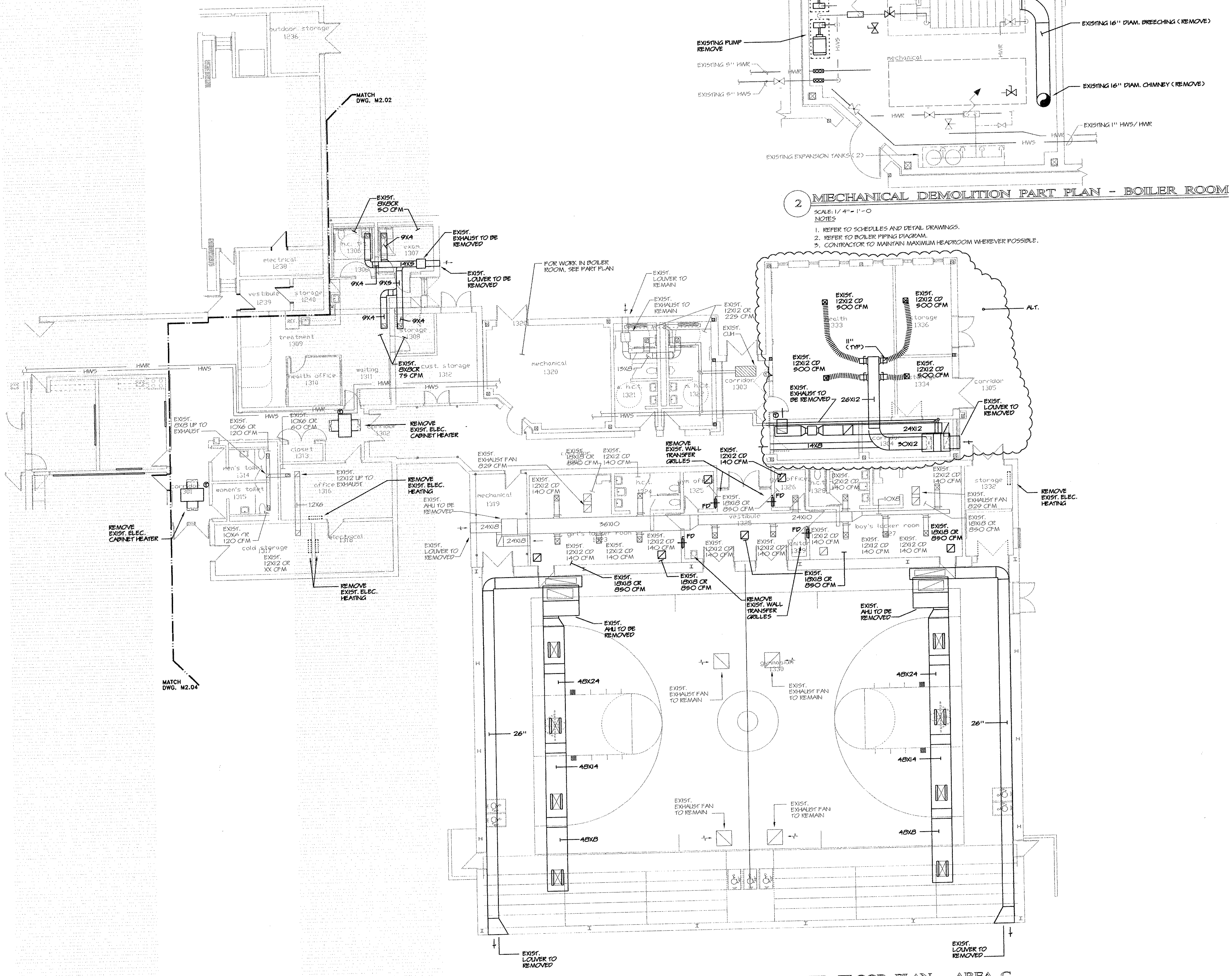
46 Slaters Rd. New Britain, Connecticut 06050-2590 (203) 229-0261
 Drawn by: R.L. Scale: AS NOTED

MECHANICAL DEMOLITION
 MAIN LEVEL
 FLOOR PLAN
 AREA C

Project no. 45110 Drawing no. **M2.03**
 Date: DECEMBER 16, 1998

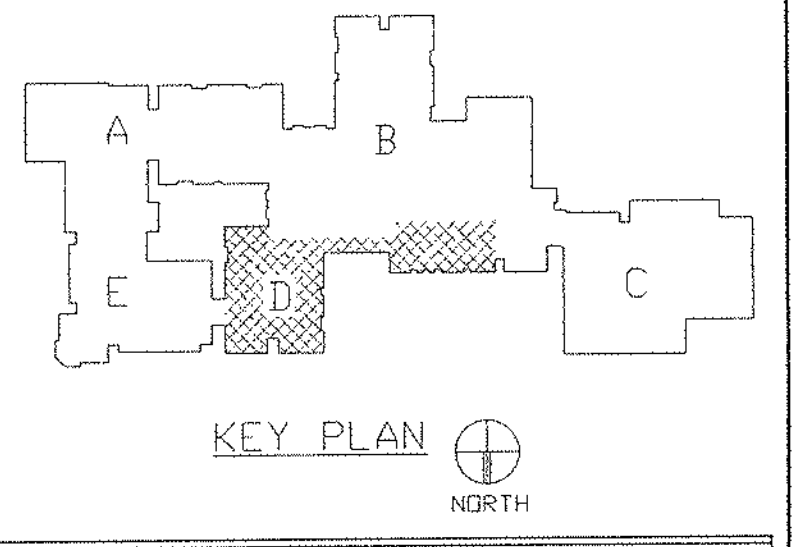


2 MECHANICAL DEMOLITION PART PLAN - BOILER ROOM
 SCALE: 1/4" = 1'-0"
 NOTES:
 1. REFER TO SCHEDULES AND DETAIL DRAWINGS.
 2. REFER TO BOILER PIPING DIAGRAM.
 3. CONTRACTOR TO MAINTAIN MAXIMUM HEADROOM WHEREVER POSSIBLE.



1 MECHANICAL DEMOLITION MAIN LEVEL FLOOR PLAN - AREA C
 SCALE: 1/8" = 1'-0"

- NOTES:
 1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS G.G. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK, NOTIFICATIONS.
 3. DEMOLITION PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REMOVE ALL SUPERSEDED EQUIPMENT.



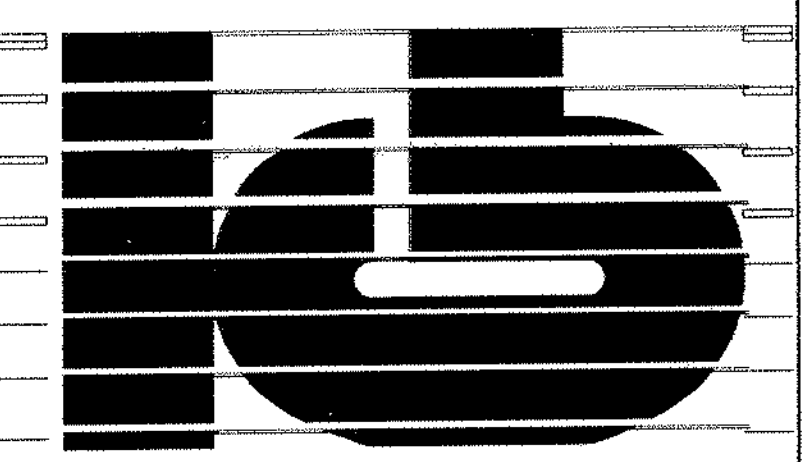
REVISIONS		
DATE	MARK	DESCRIPTION
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OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT

WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
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AVON, CT 06001-0516



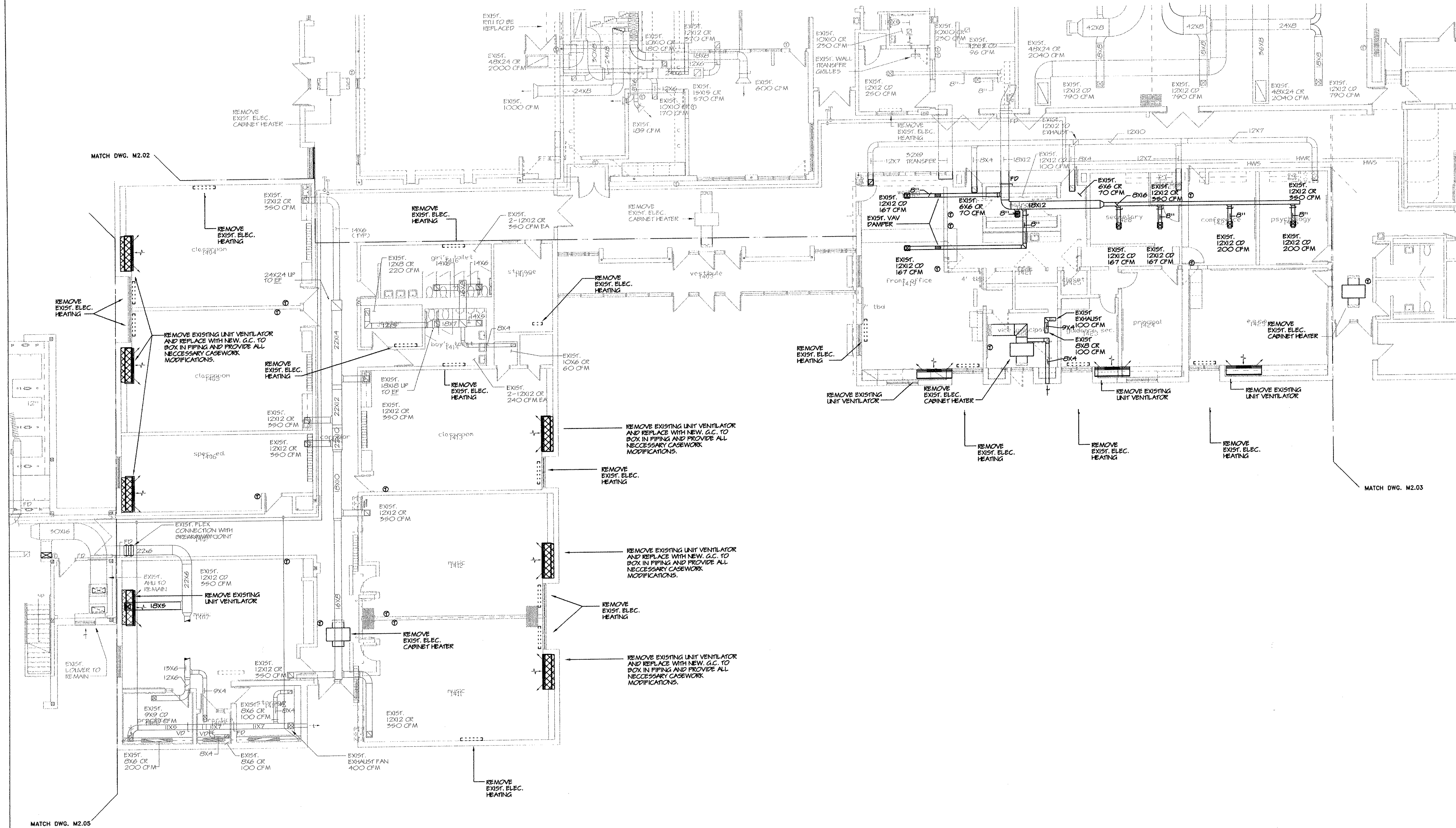
KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

416 State Rd. New Britain, Connecticut 06050-2690 (203) 229-0361
Drawn by: R.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL DEMOLITION FLOOR PLAN AREA D

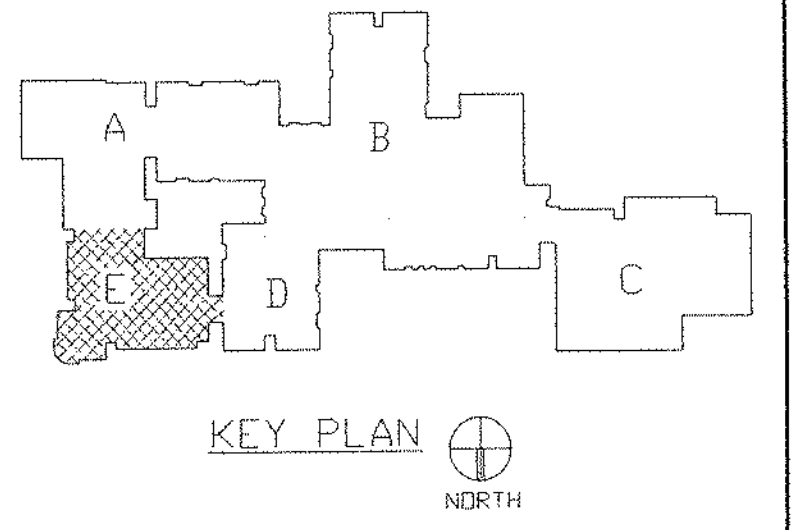
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **M2.04**



1 MECHANICAL DEMOLITION MAIN LEVEL FLOOR PLAN - AREA D
SCALE: 1/8" = 1'-0"

- NOTES:
1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 3. DEMOLITION PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REMOVE ALL SUPERSEDED EQUIPMENT.



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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
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 STATE PROJECT NO. 018-043 EA
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WALTER MCILVEEN ASSOCIATES, INC.
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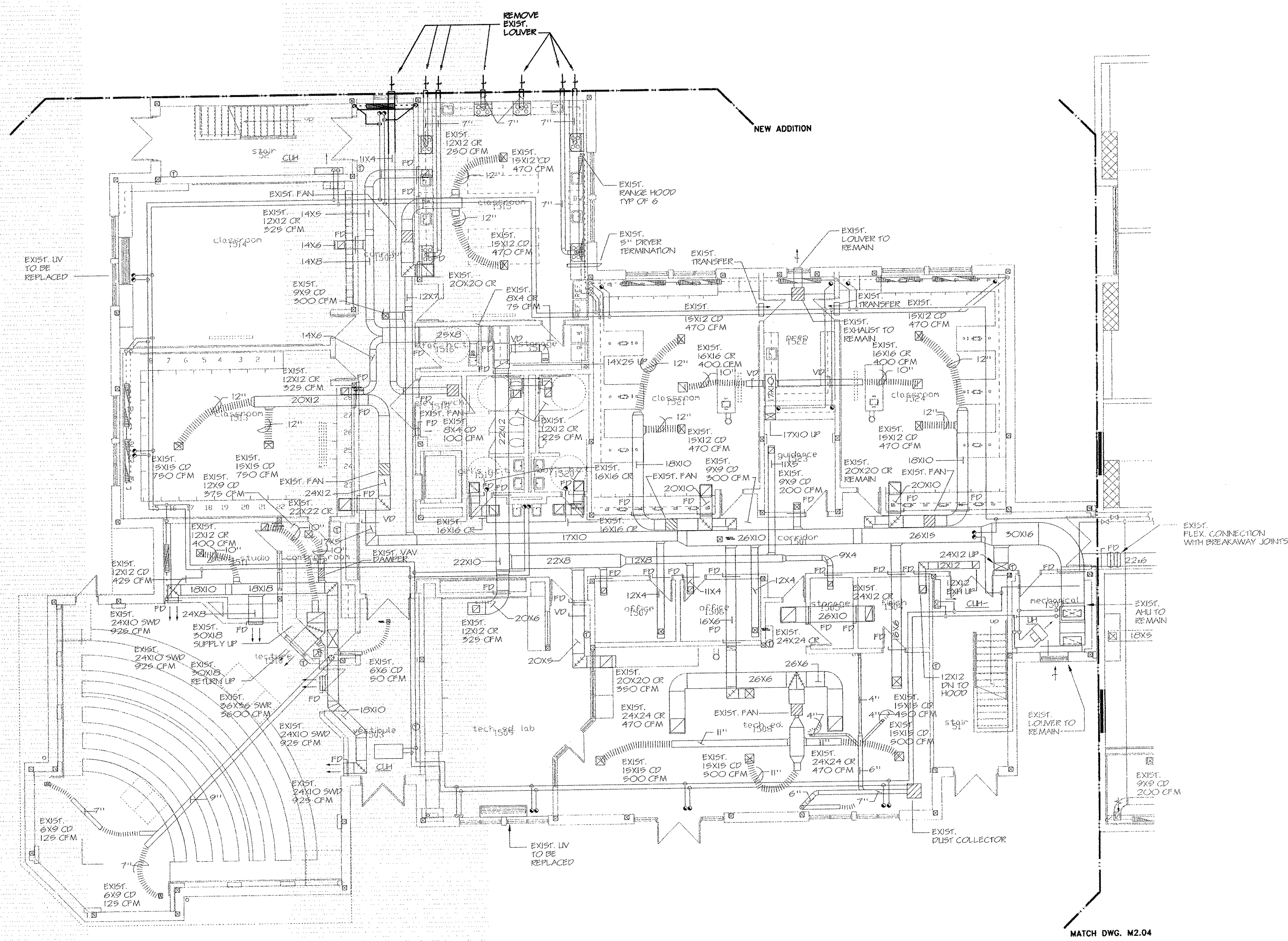


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416 Stair Rd. New Britain, Connecticut 06050-2500 (203) 229-0381
 Drawn by: RL. Scale: AS NOTED

MECHANICAL MAIN LEVEL DEMOLITION FLOOR PLAN AREA E

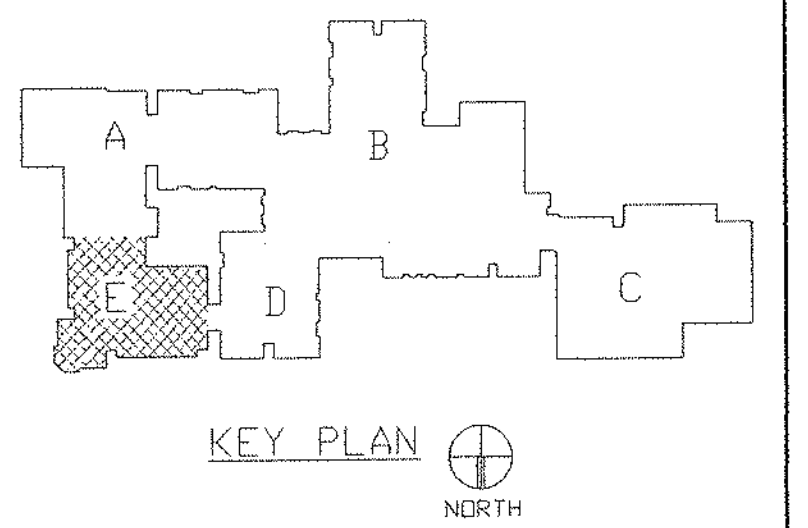
Project no. 45110 Drawing no. **M2.05**
 Date: DECEMBER 16, 1998



1 MECHANICAL DEMOLITION MAIN LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES:
1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS & C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK, MODIFICATIONS.
 3. DEMOLITION PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REMOVE ALL SUPERSEDED EQUIPMENT.

MATCH DWG. M2.04

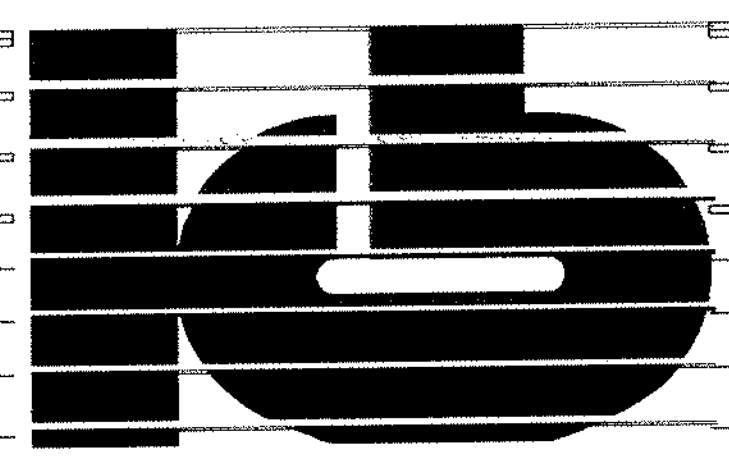


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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
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WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
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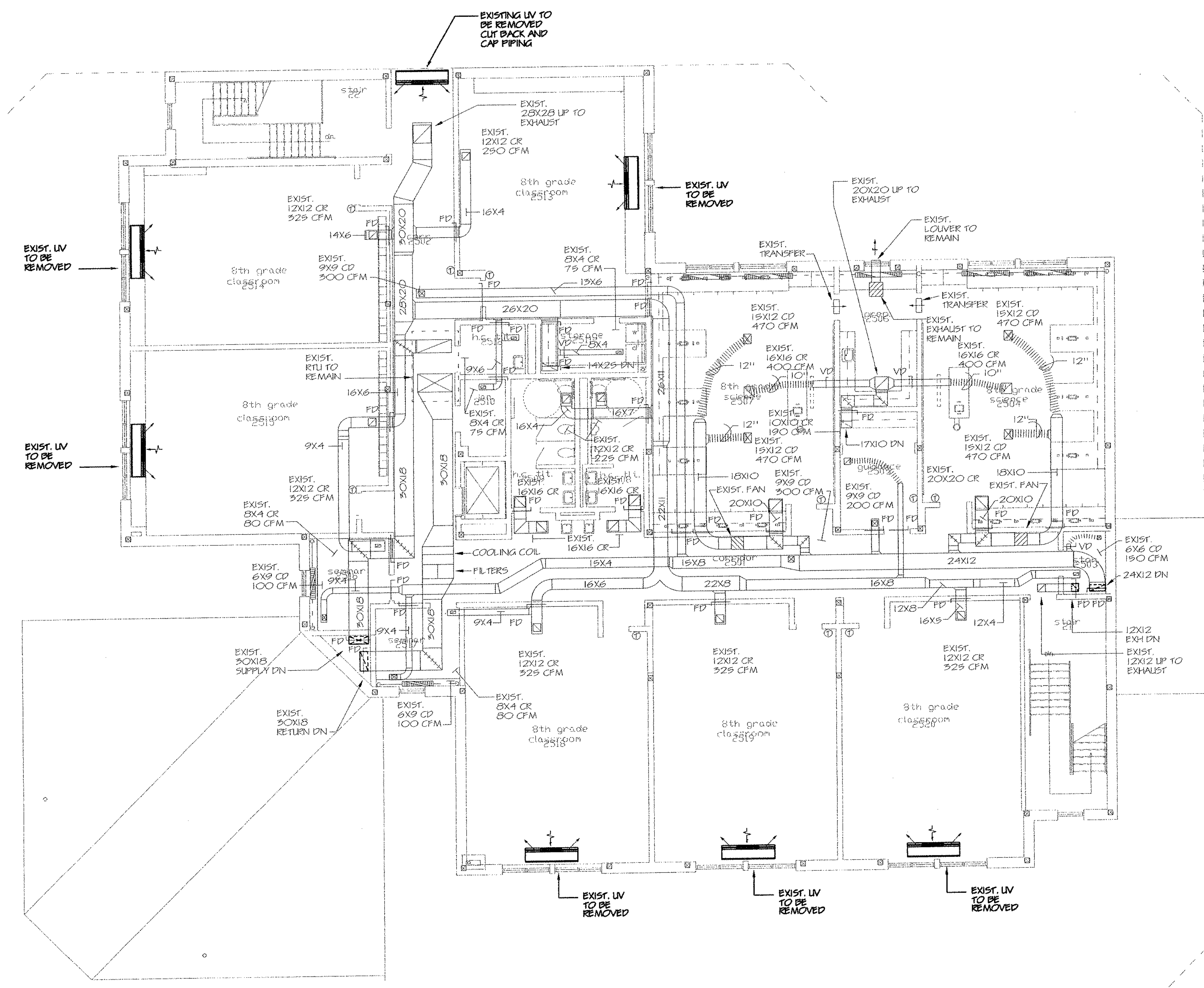
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

46 Slaters Rd. New Britain, Connecticut 06050-2690 (203) 229-0261
 Drawn by: P.L. Scale: AS NOTED

MECHANICAL UPPER LEVEL DEMOLITION FLOOR PLAN AREA E

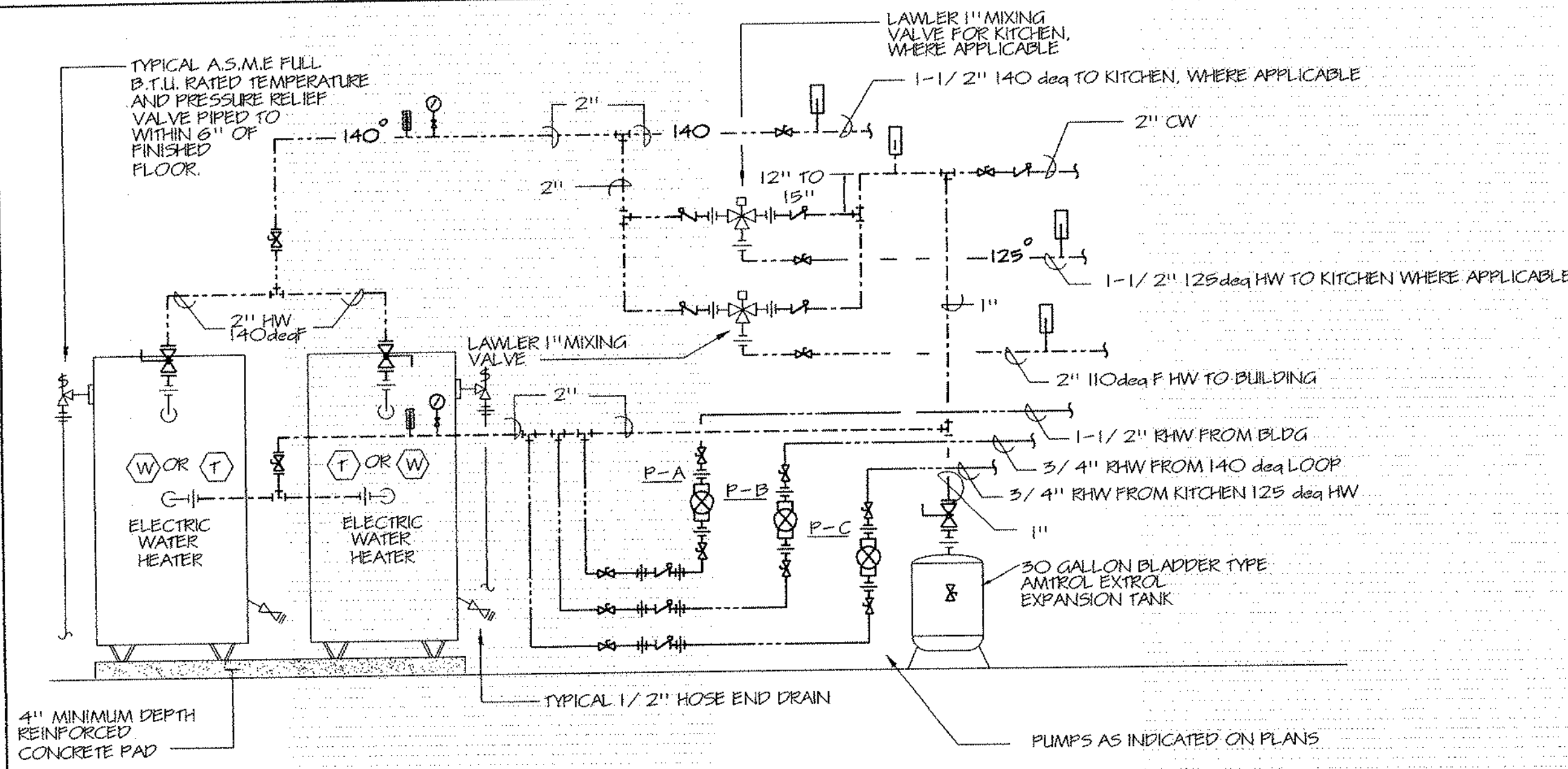
Project no. 49110 Drawing no.

Date: DECEMBER 16, 1998 **M2.06**



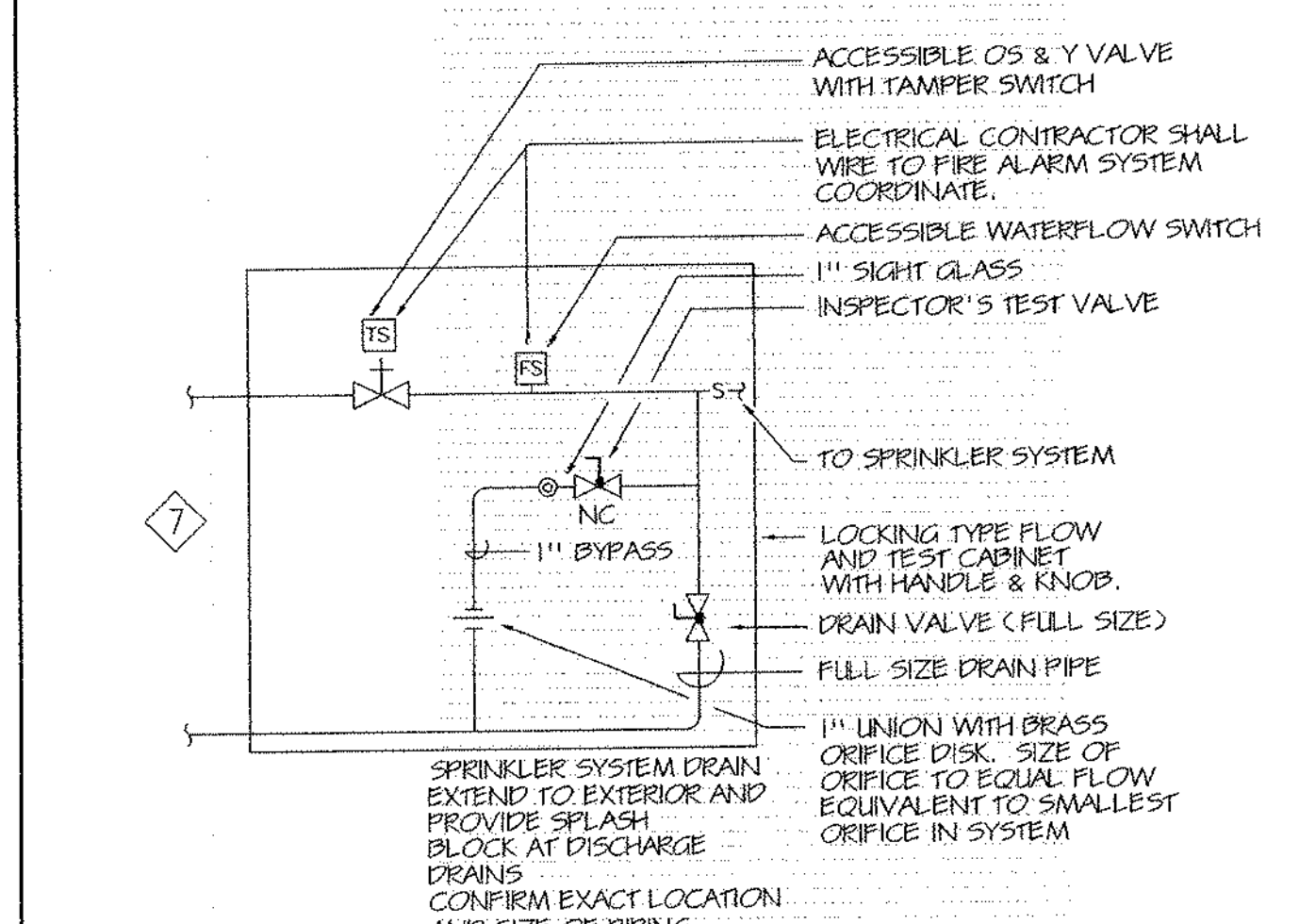
1 MECHANICAL DEMOLITION UPPER LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES:**
1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 3. DEMOLITION PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REMOVE ALL SUPERSEDED EQUIPMENT.



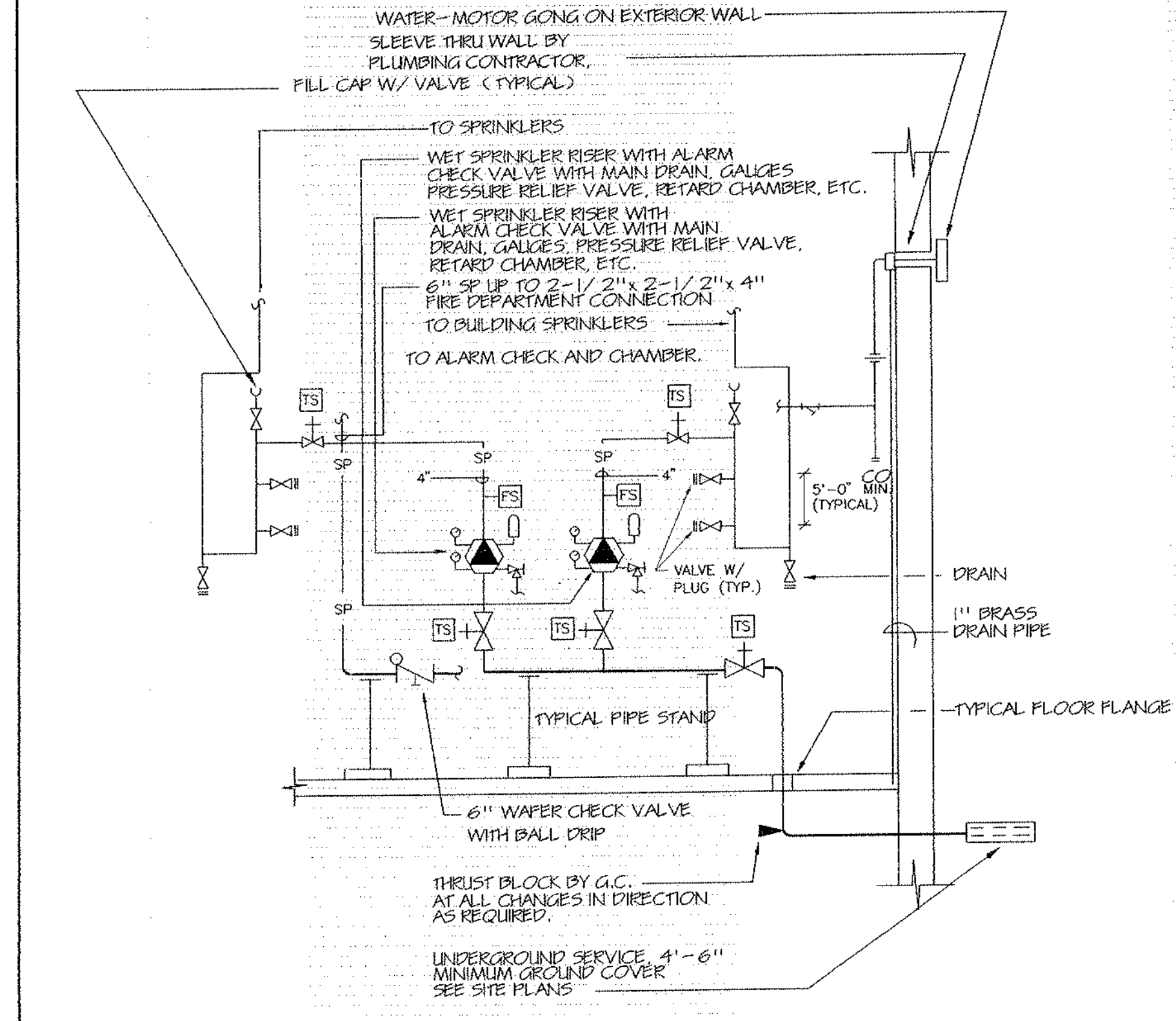
1 WATER HEATER PIPING DIAGRAM

- NOTES:
1. PROVIDE ALL NEW HEATERS, VALVING AND ACCESSORIES AS REQUIRED TO MANUFACTURER RECOMMENDATIONS.
 2. PROVIDE REDUCER FITTINGS AS NECESSARY.
 3. SEE PUMP SCHEDULE.



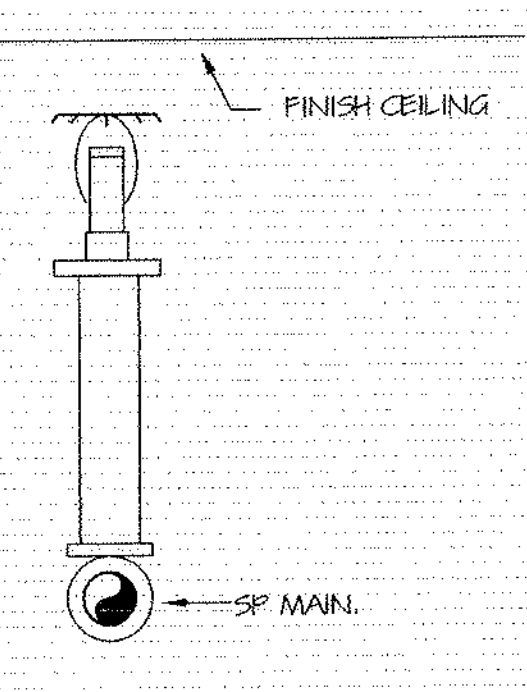
2 SPRINKLER FLOW TEST CONNECTION DETAIL

- NOTES:
1. PROVIDE FOR COMPLETE, APPROVED ASSEMBLY SHOWN TO BE LOCATED WITHIN SECURED AREA DESIGNATED BY ARCHITECT.
 2. PAINT ALL PIPING WITH-IN CABINET AND EXPOSED PIPING OUTSIDE CABINET.
 3. PROVIDE BAKELITE NAMEPLATE FOR EACH CABINET INDICATING "FIRE DEPARTMENT TEST, SHUT-OFF AND ACCESS".



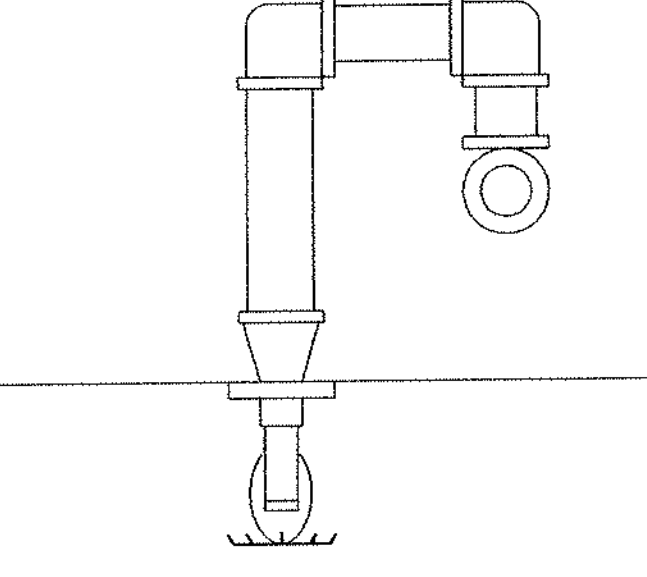
3 FIRE PROTECTION RISER DETAIL

- NOTE:
1. PROVIDE ALL NECESSARY SYSTEM RISERS (WET OR DRY) AND ACCESSORIES TO MEET NFPA 13, NFPA 24 AND SPECIFICATION REQUIREMENTS. TWO RISERS ARE SHOWN ABOVE AS AN EXAMPLE ONLY.
 2. PROVIDE A MIN. OF TWO (2) ADDITIONAL FLOW SWITCHES FOR ZONING PLACEMENT IN BUILDING AS FOLLOWS: TOP OF ELEVATOR SHAFT, WITH FLOW SWITCH AND ISOLATION VALVE WITH TAMPER SWITCH. ELEVATOR PIT, SPRINKLER SHAFT AND FLOW SWITCH AND ISOLATION VALVE WITH TAMPER SWITCH.
 3. FLOW SWITCH ALARM IN ANY AREA SHALL NOT TRIP ANOTHER FLOW SWITCH.
 4. SEE SPECIFICATIONS FOR REQUIREMENTS.



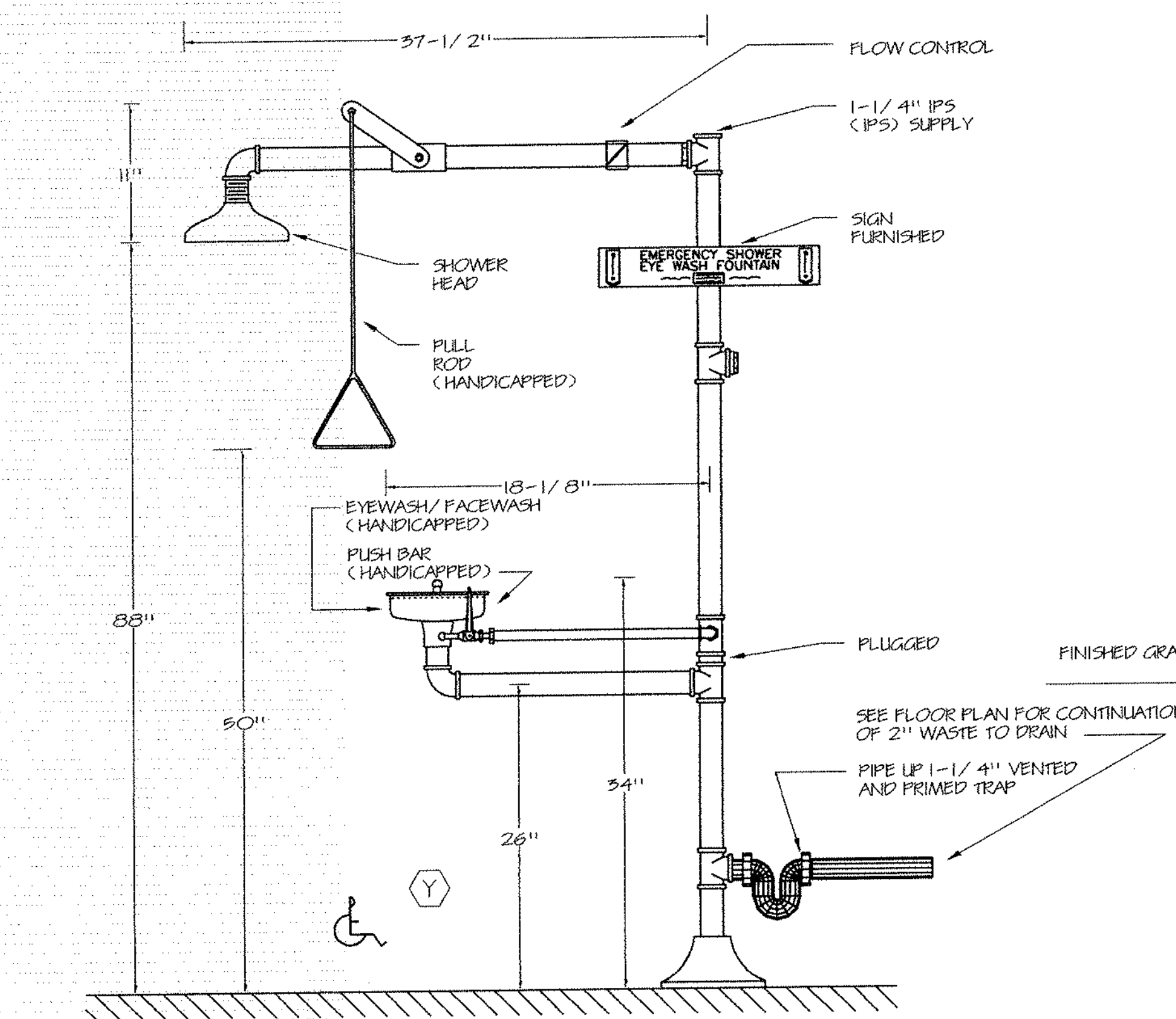
9 SPRINKLER UPRIGHT DETAIL

- NOTES:
1. REFER TO SPECIFICATIONS FOR SPRINKLER TYPES.
 2. PROVIDE A COMPLETE DOMESTIC FED. LIMITED COVERAGE SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 13 IN THE BOILER ROOM AND STORAGE ROOMS NOT LOCATION WITHIN R-3 USE GROUP. SEE ARCHITECTURAL.



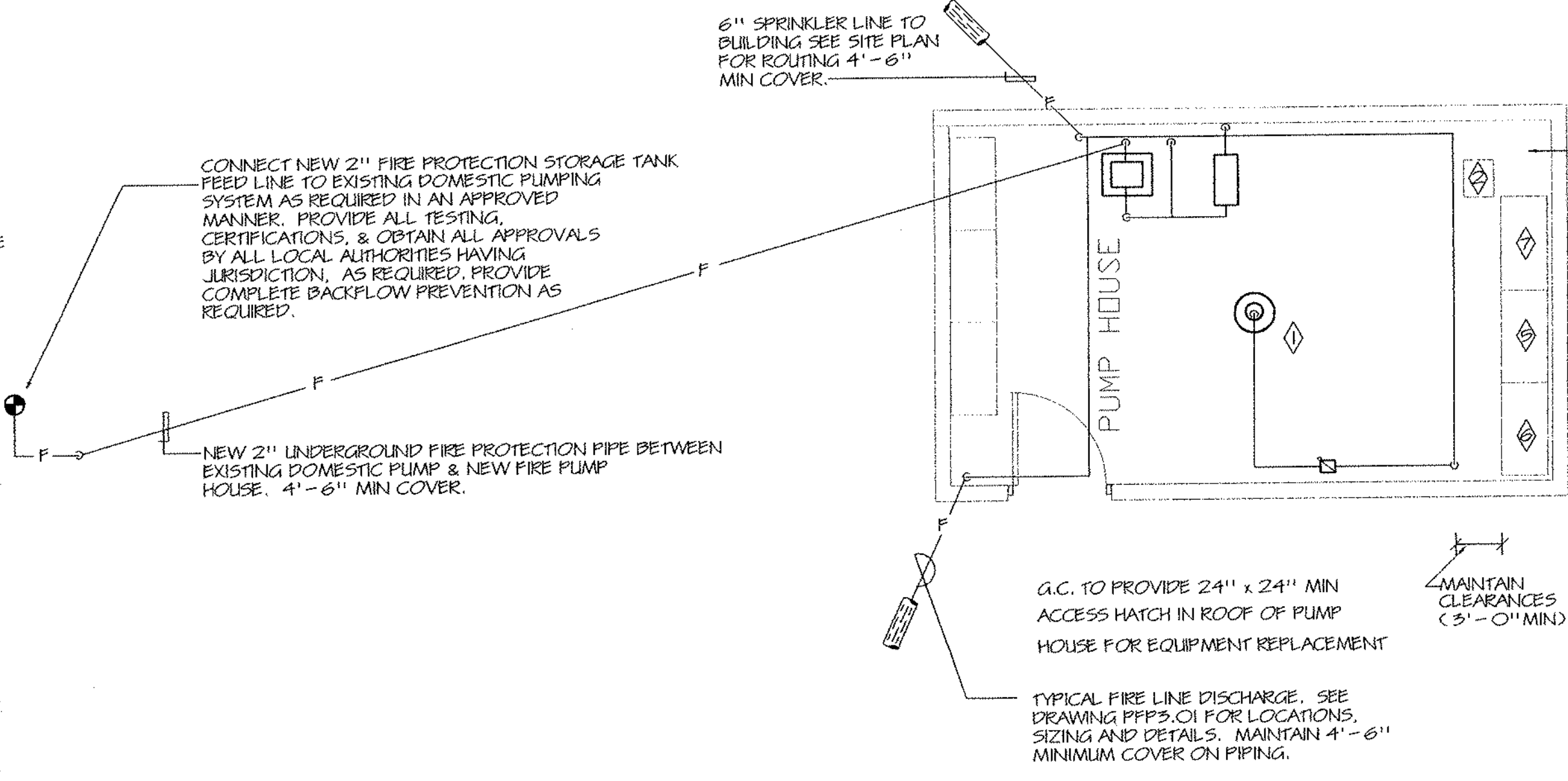
4 SPRINKLER PENDANT DETAIL

- NOTES:
1. REFER TO SPECIFICATIONS FOR SPRINKLER TYPES.



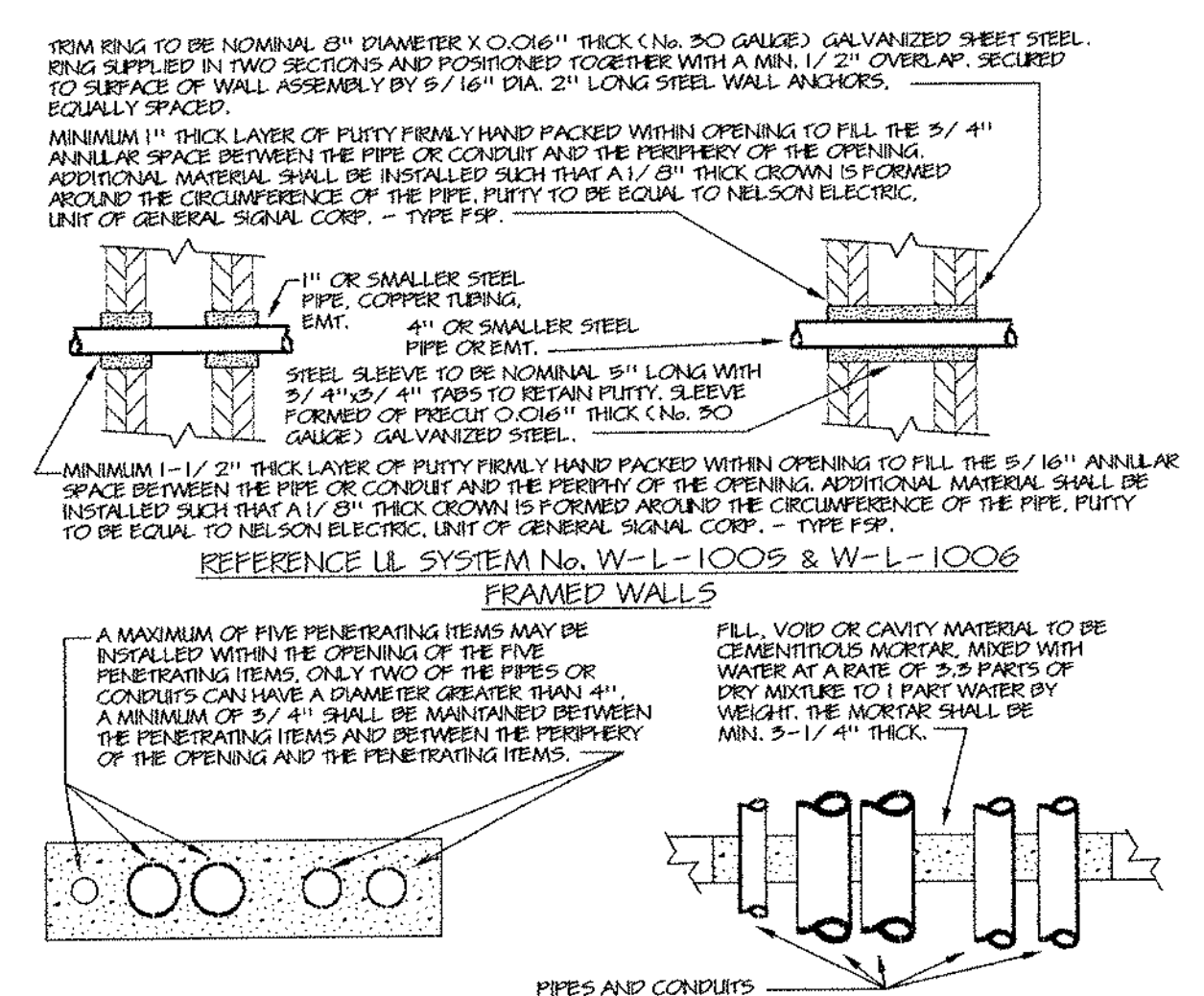
8 EMERGENCY DELUGE SHOWER/EYEWASH DETAIL

- NOTES:
1. MAINTAIN ALL HANDICAPPED ACCESSIBLE HEIGHTS OF ADA STATE CODES AND LOCAL AUTHORITIES.



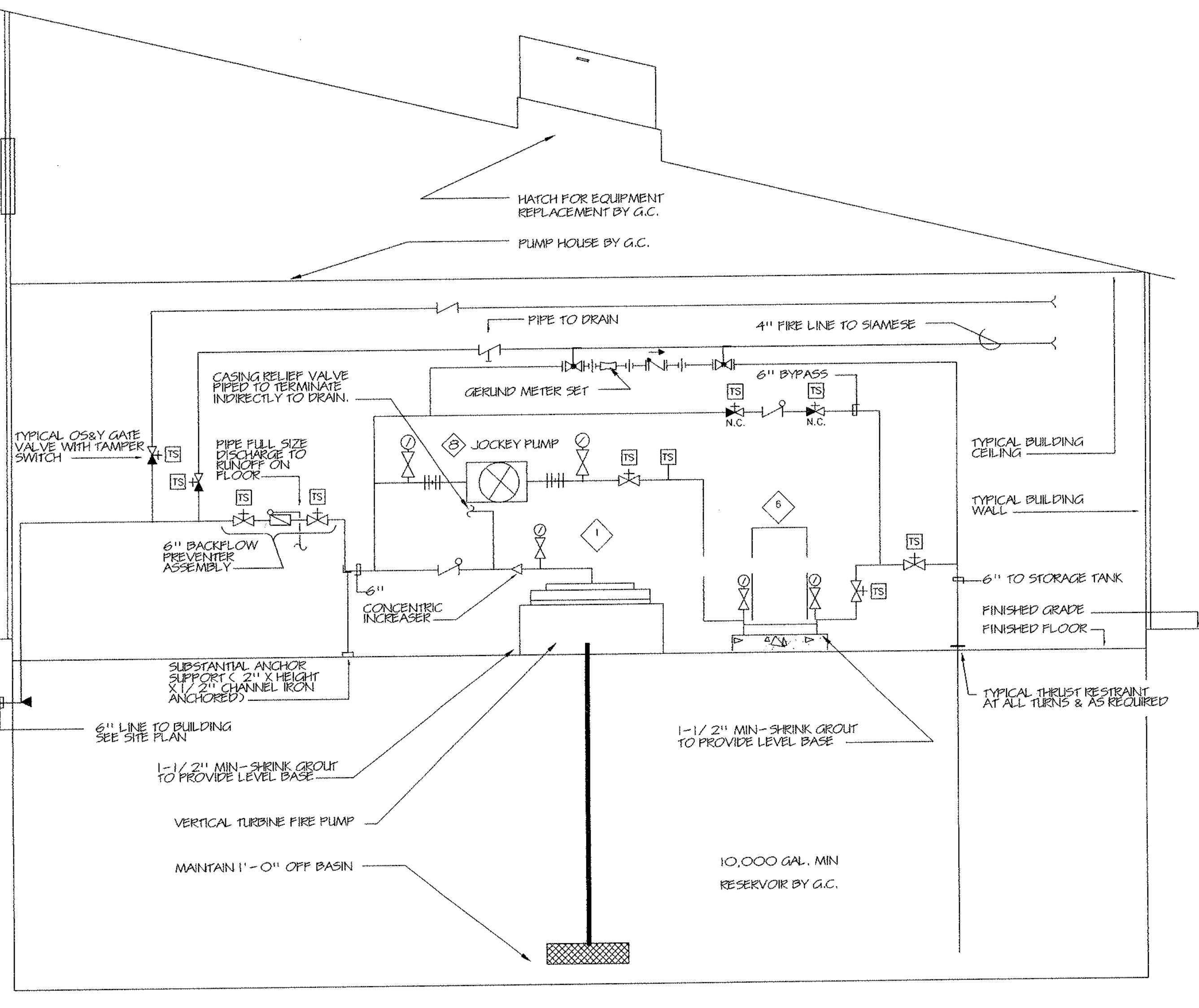
7 SPRINKLER FIRE PUMP HOUSE AND DETAILS

- NOTES:
1. SEE FIRE PUMP DETAIL FOR ALL PIPING.
 2. COMPLETE INSTALLATION TO THE REQUIREMENTS OF NFPA, THE LOCAL OFFICIAL AND ALL AUTHORITIES HAVING JURISDICTION.
 3. COMPLETE PIPING SYSTEM FROM CONNECTIONS TO SPRINKLERS SHALL BE BY THIS CONTRACTOR. PROVIDE COMPLETE WITH ALL ACCESSORIES AS REQUIRED TO STATE AND LOCAL CODES, LOCAL OFFICIALS REQUIREMENTS AND N.F.P.A. SEE SPECIFICATION & DETAILS.



6 PIPE PENETRATIONS - FIRE STOP DETAILS

- NOTES:
1. SEE SPECIFICATIONS FOR REQUIREMENTS.



5 FIRE PUMP DETAIL

- NOTES:
1. SEE SPECIFICATIONS FOR REQUIREMENTS.

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WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

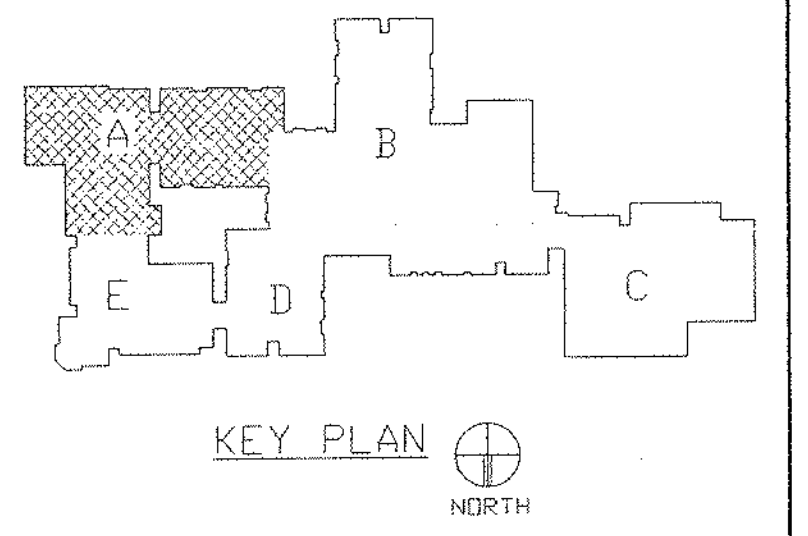
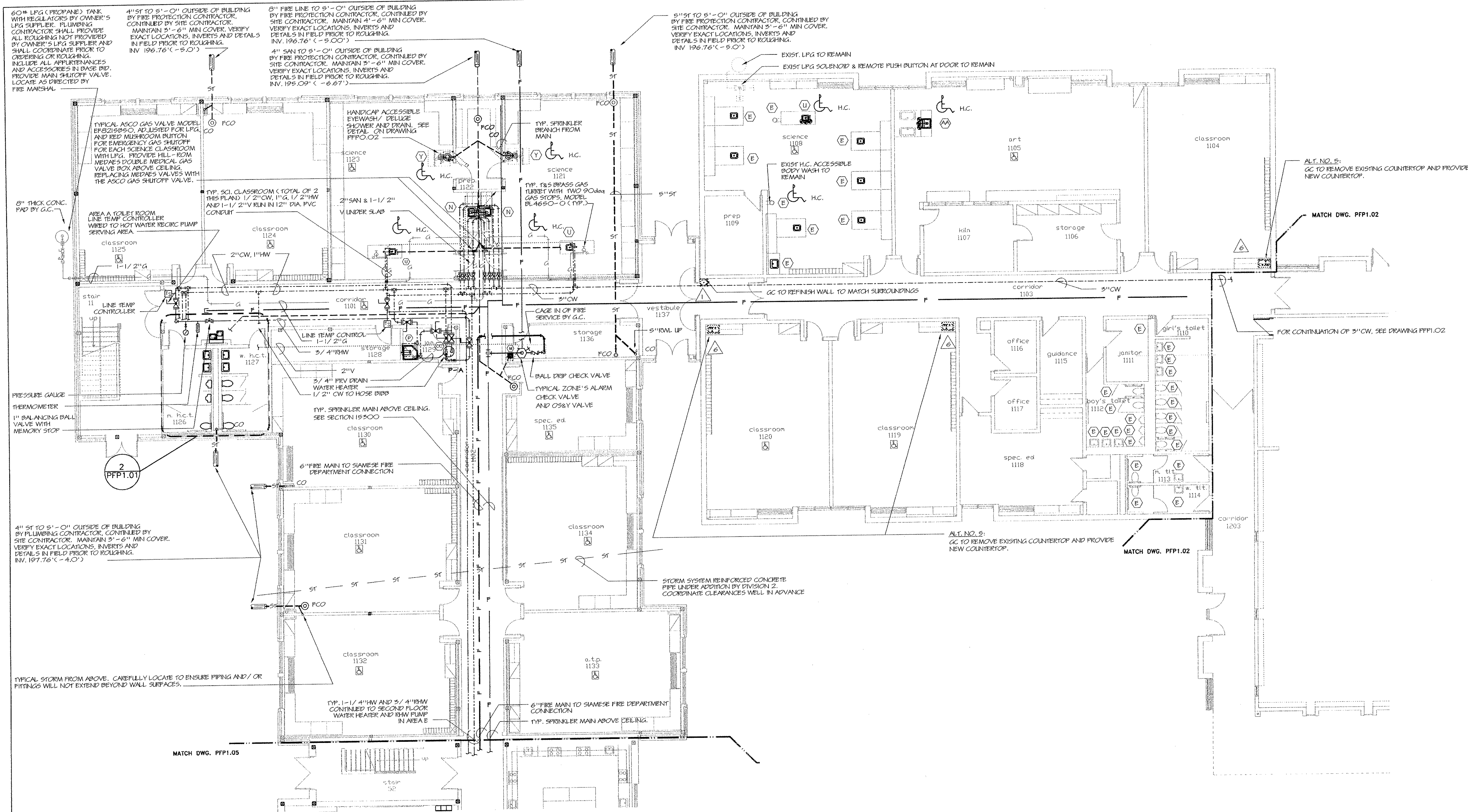
WALTER MCILVEEN ASSOCIATES, INC.
CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516

KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

48 Saw Rd. New Britain, Connecticut 06050-2500 (203) 229-0381
Drawn by G.W.L. Scale AS NOTED

PLUMBING/FIRE PROTECTION DETAILS

Project no. 45110 Drawing no.



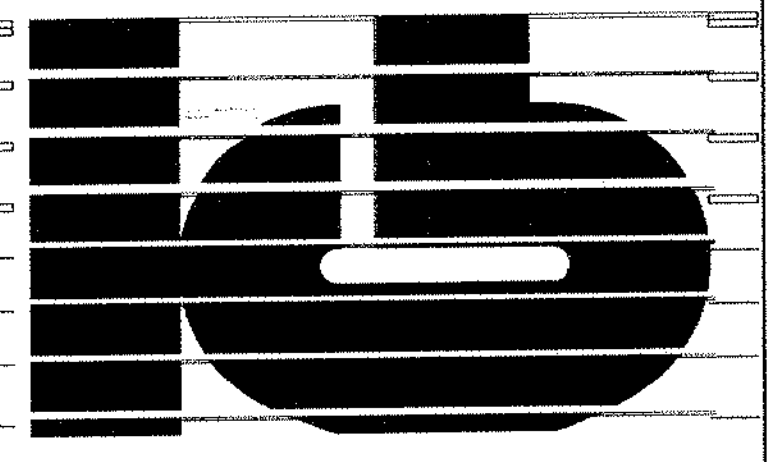
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OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2900 203-239-0361
 Drawn by: G.W.L. Scale: AS NOTED

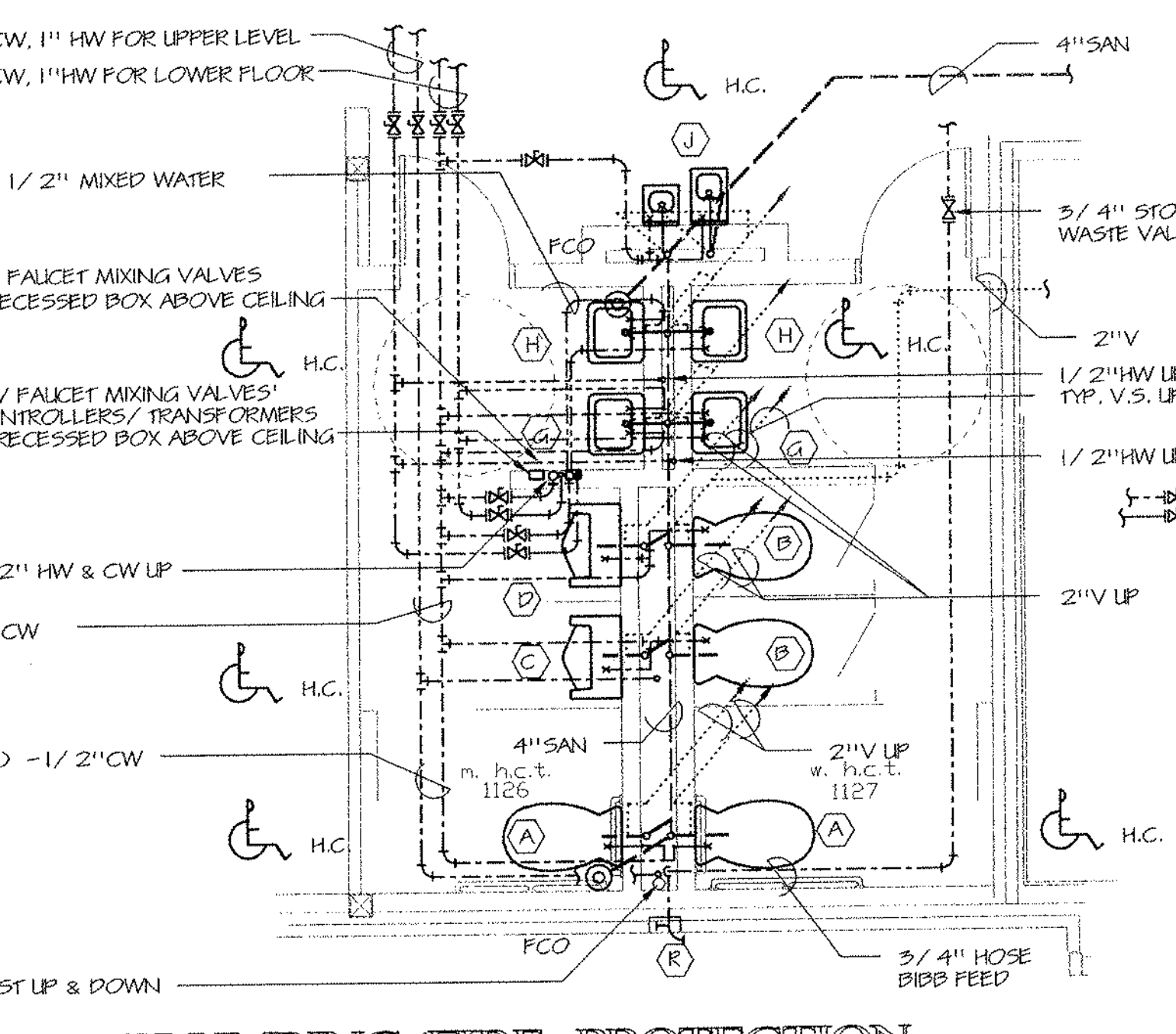
PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN AREA A

Project no. 45110 Drawing no.

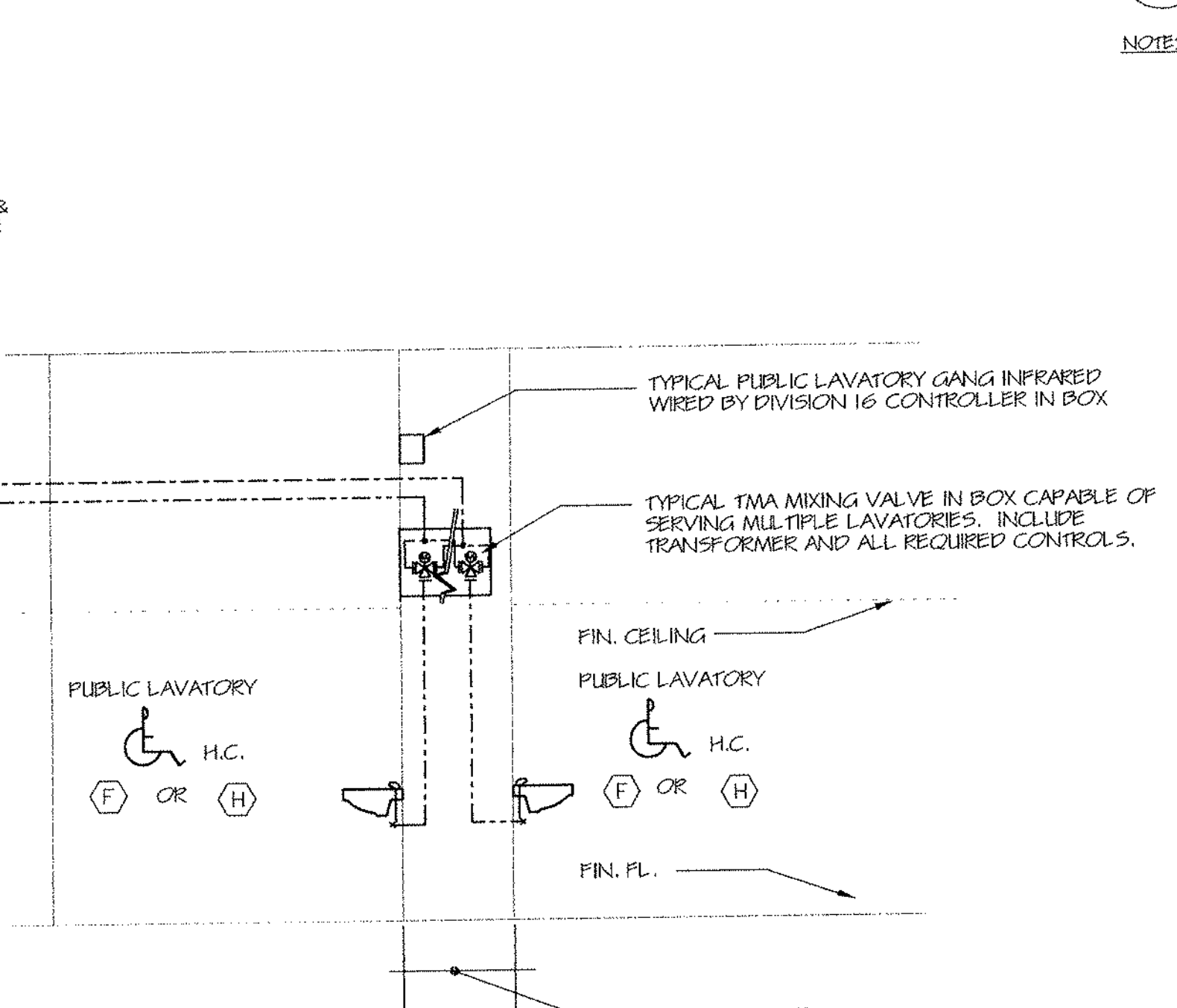
Date: DECEMBER 16, 1998 **PPF1.01**

1 PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

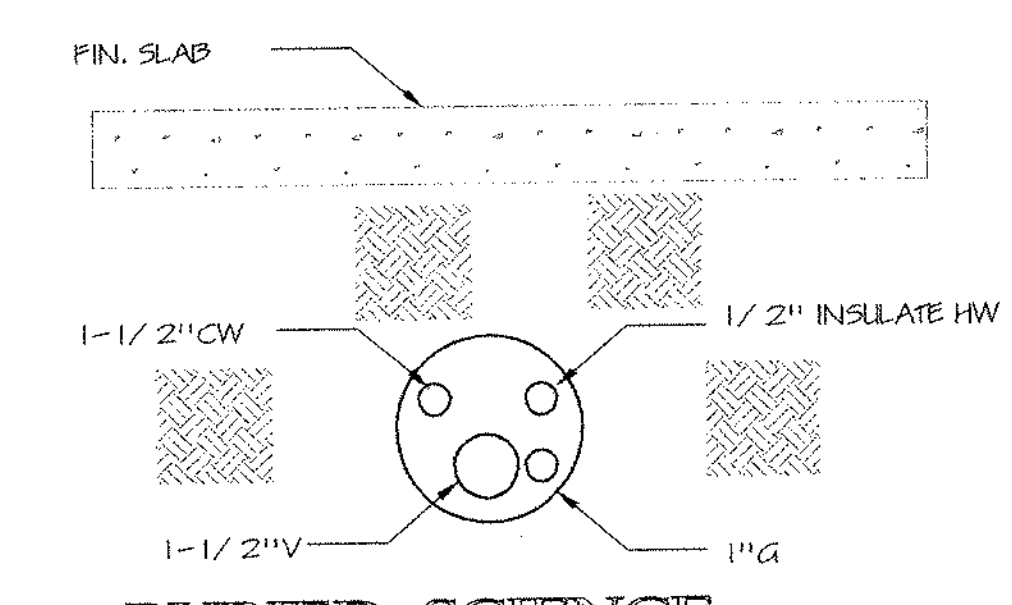
- NOTES
1. ENTIRE AREA-A SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 19500 FOR ACTUAL REQUIREMENTS.
 2. REWAVED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 19500.
 3. COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13. LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 4. FINISHED FLOOR ELEV. 201.76' (+0'-0").



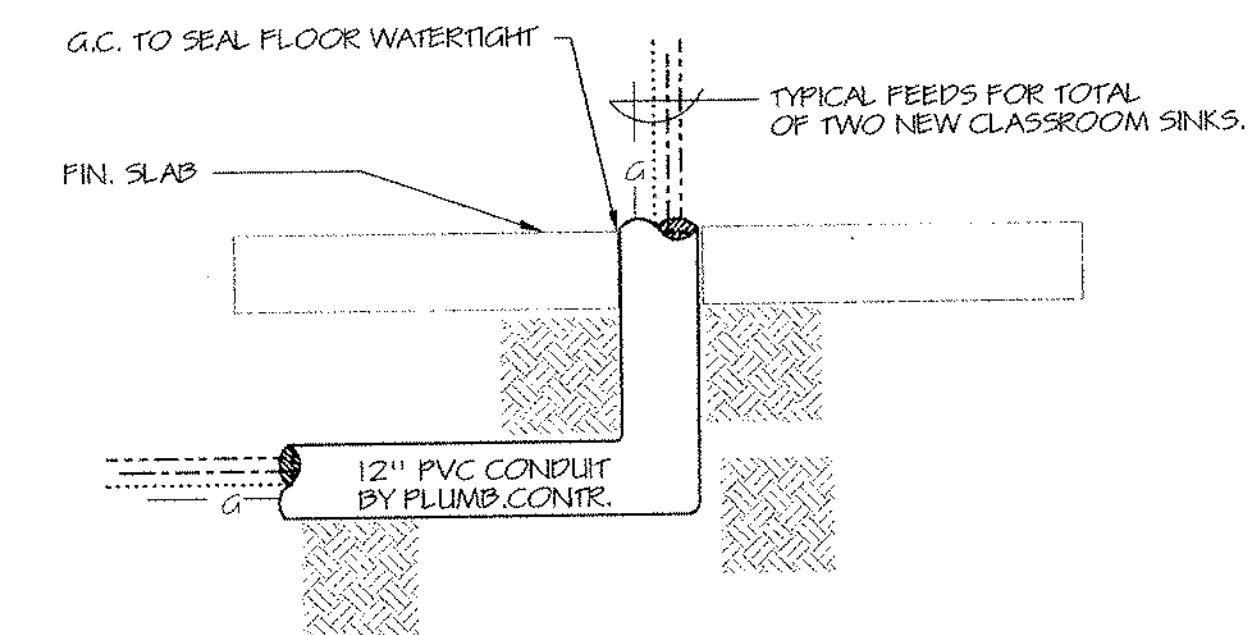
2 PART TOILET ROOM FLOOR PLAN
 SCALE: 1/4" = 1'-0"



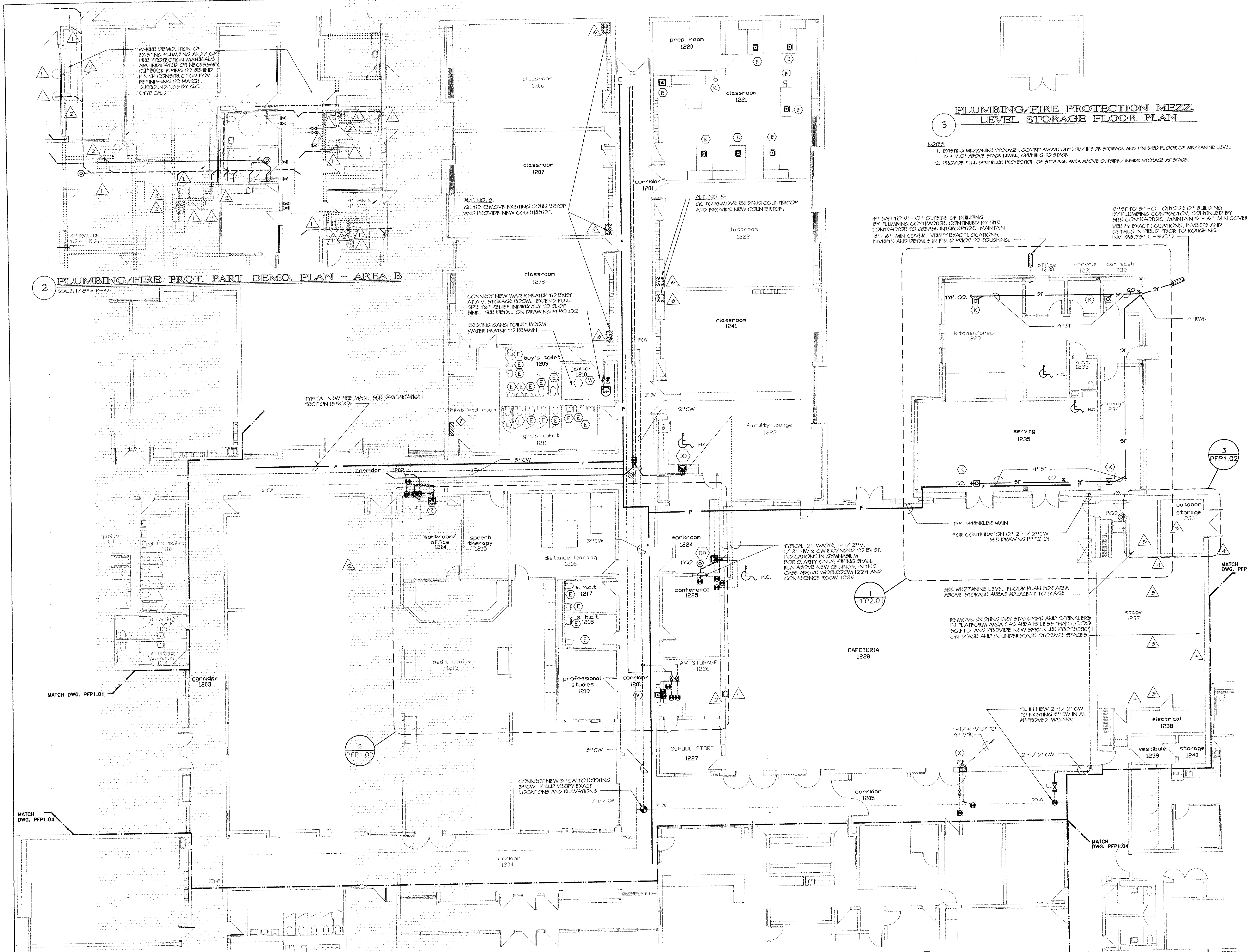
3 PUBLIC LAVATORY FAUCET PIPING DETAIL
 SCALE: NONE



4 BURIED SCIENCE LAB CONDUIT SECTION
 SCALE: NONE



5 BURIED SCIENCE LAB CONDUIT SECTION
 SCALE: NONE



2 PLUMBING/FIRE PROT. PART DEMO. PLAN - AREA B
SCALE: 1/8" = 1'-0"

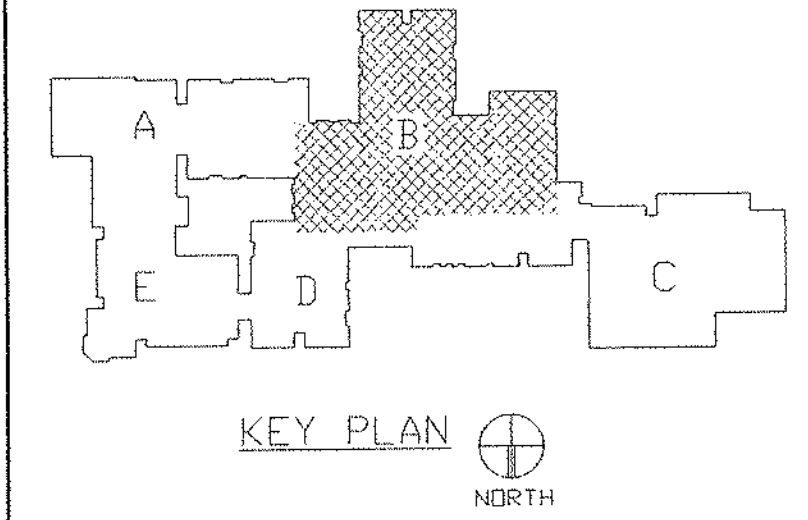
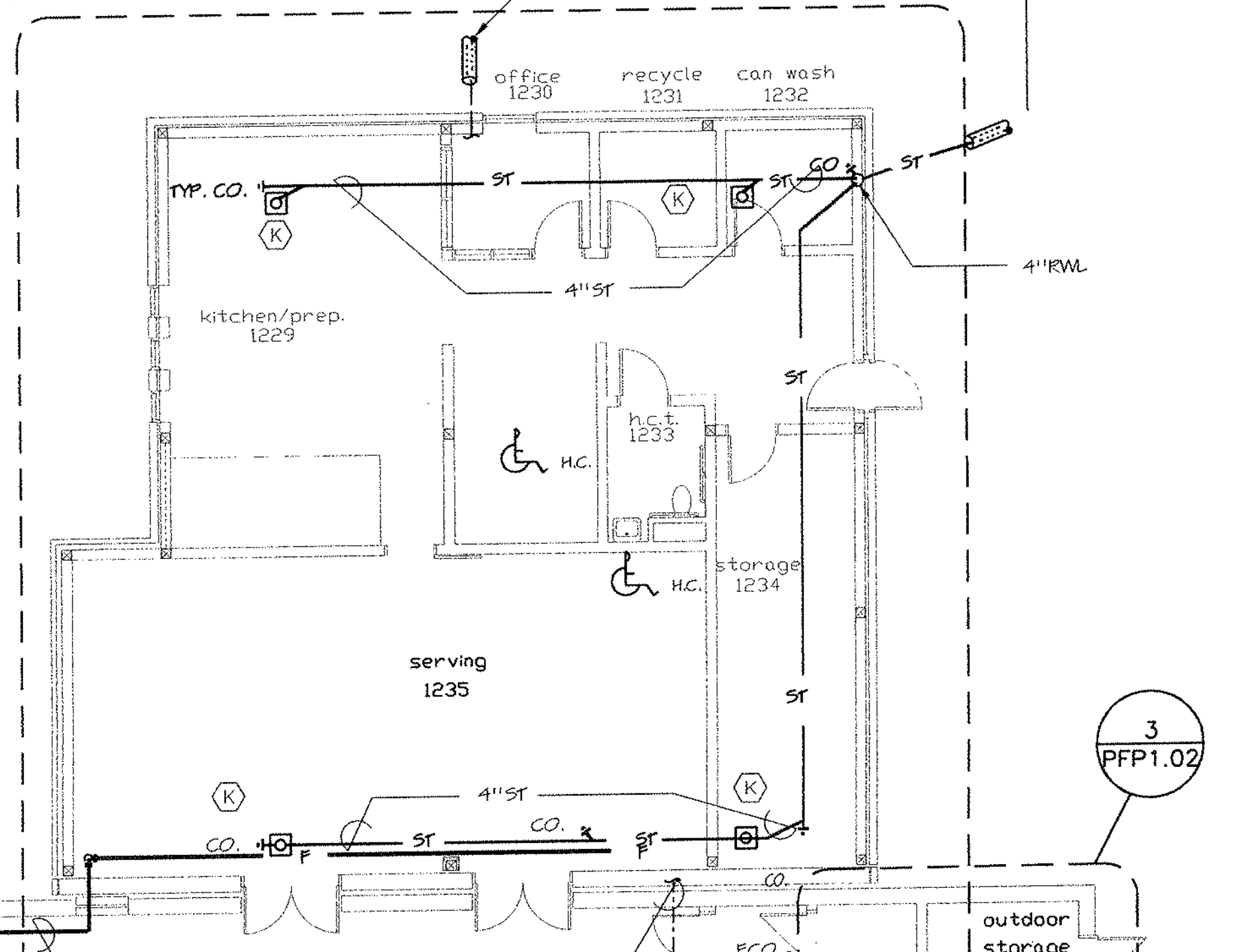
1 PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

- NOTES:**
1. EXISTING AREA-B SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 19500 FOR ACTUAL REQUIREMENTS.
 2. EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 19500.
 3. COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 4. FIN. FL. ELEV. 201.75' (+0'-0")

3 PLUMBING/FIRE PROTECTION MEZZ. LEVEL STORAGE FLOOR PLAN

- NOTES:**
1. EXISTING MEZZANINE STORAGE LOCATED ABOVE OUTSIDE/INSIDE STORAGE AND FINISHED FLOOR OF MEZZANINE LEVEL IS +7.0' ABOVE STAGE LEVEL. OPENING TO STAGE.
 2. PROVIDE FULL SPRINKLER PROTECTION OF STORAGE AREA ABOVE OUTSIDE/INSIDE STORAGE AT STAGE.

4" SAN TO 5'-0" OUTSIDE OF BUILDING BY PLUMBING CONTRACTOR. CONTINUED BY SITE CONTRACTOR TO CREATE INTERCEPTOR. MAINTAIN 3'-6" MIN COVER. VERIFY EXACT LOCATIONS, INVERTS AND DETAILS IN FIELD PRIOR TO ROUGHING. INV. 196.75' (+0'-0")



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OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT
WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516

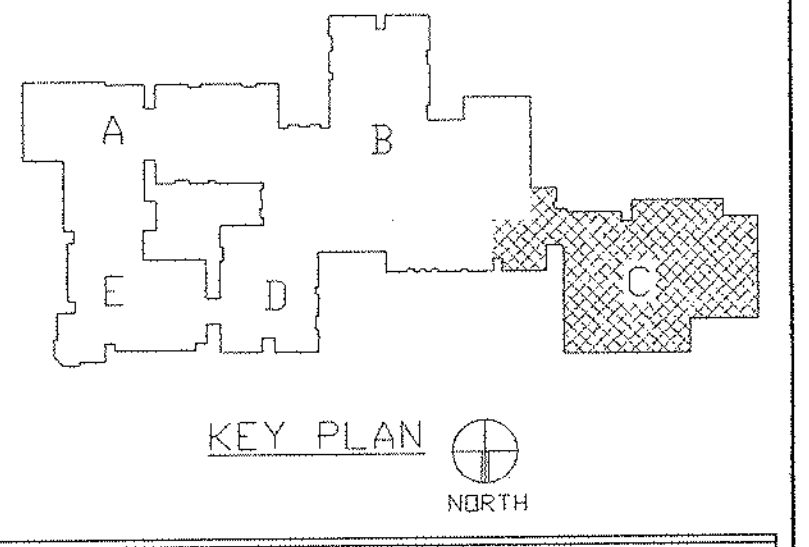


46 Slater Rd. New Britain, Connecticut 06050-2500 (203) 226-0361
Drawn by: G.W.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN AREA B

Project no. 45110 Drawing no.

DECEMBER 17, 1998 **PFP1.02**



REVISIONS		
DATE	MARK	DESCRIPTION
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OCTOBER 4, 1999		DRAWINGS ISSUED FOR PERMITS AND CONSTRUCTION PURPOSES.



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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



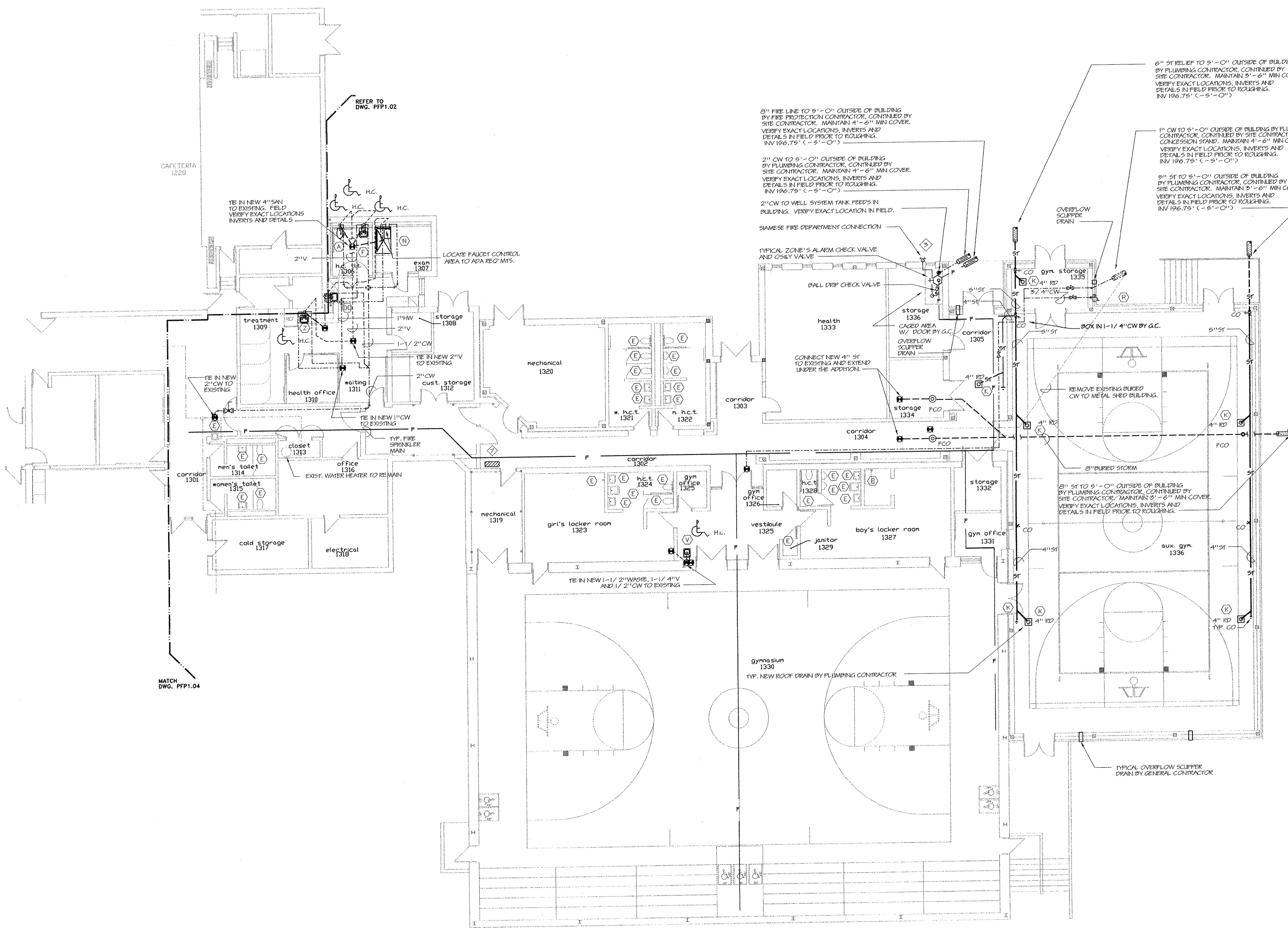
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2900 (203) 229-0381
 Drawn by: G.W.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN AREA C

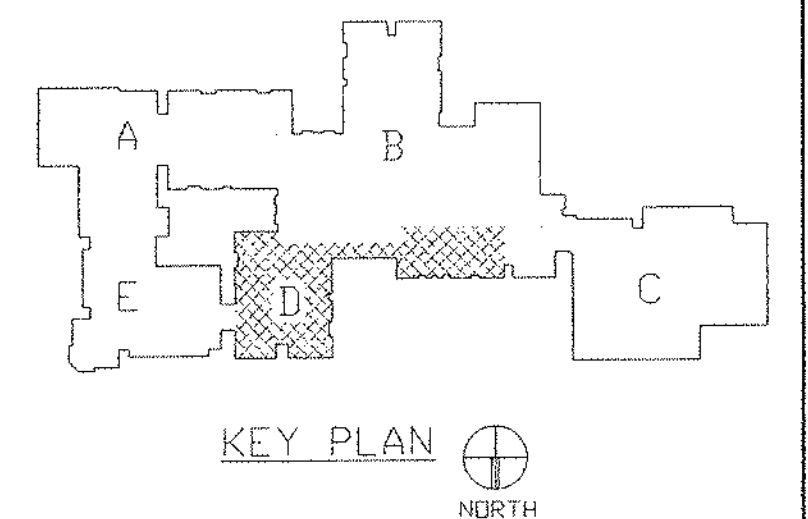
Project no. 4510 Drawing no.

DATE: DECEMBER 16, 1999 **PPF1.03**



1 PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN - AREA C
 SCALE: 1/8" = 1'-0"

- NOTES:
- EXISTING AREA-C SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 15300 FOR ACTUAL REQUIREMENTS.
 - EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 15300.
 - COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 - FIN. FL. ELEV. 201.75' (-5'-0")

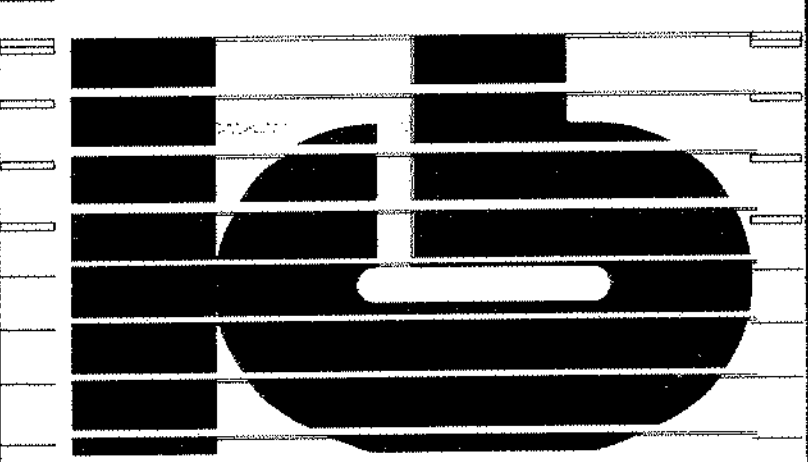


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WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516

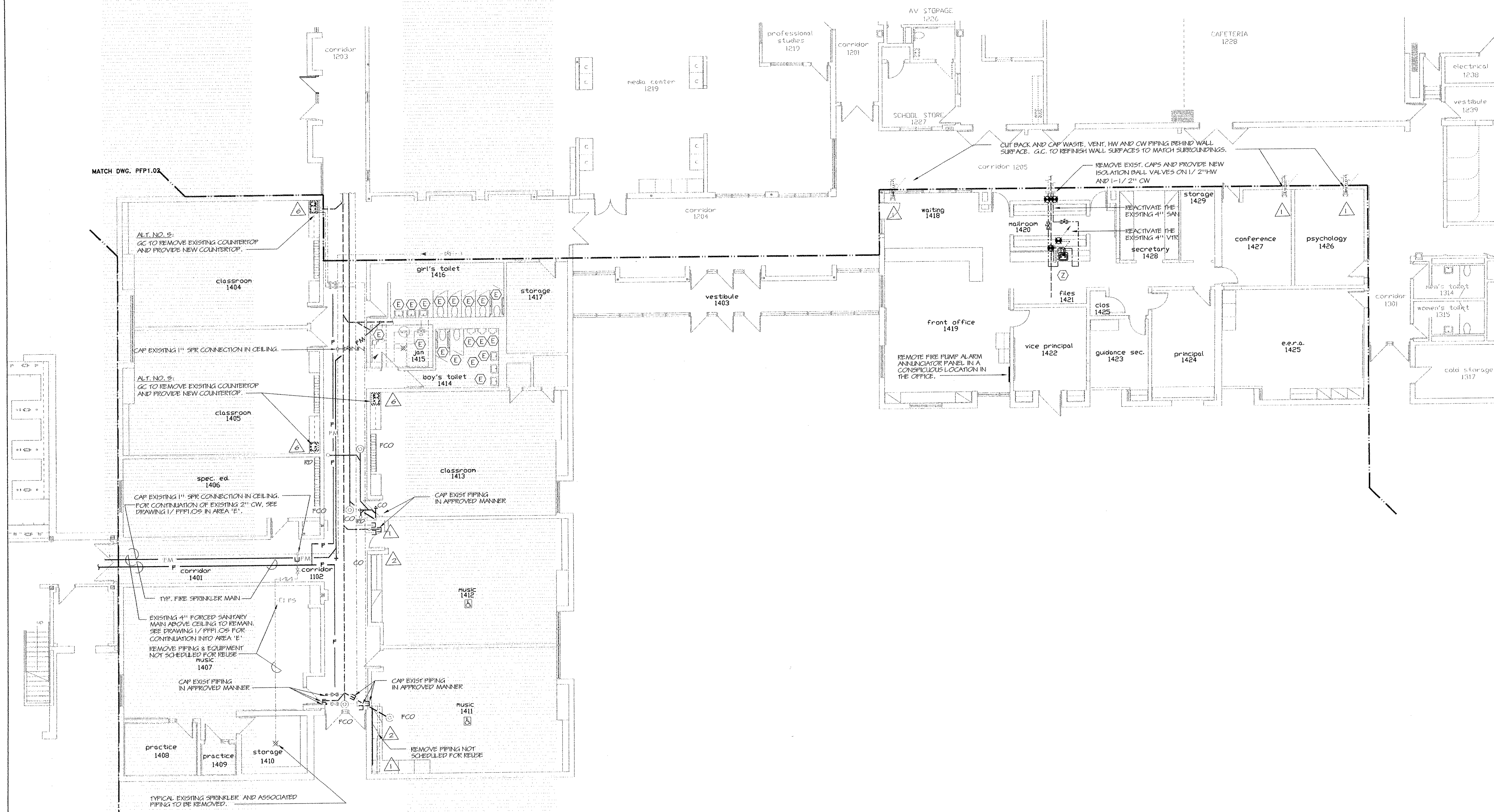


KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 State Rd. New Britain, Connecticut 06050-2890 (203) 229-0361
 Drawn by: R.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN AREA D

Project no. 49110 Drawing no. PFP1.04
 Date: DECEMBER 16, 1998



1 PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN - AREA D

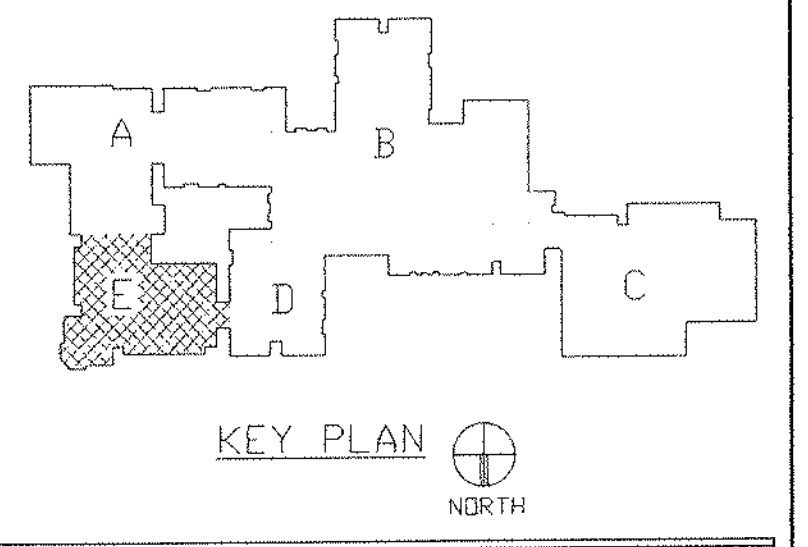
SCALE: 1/8" = 1'-0"

NOTES

- EXISTING AREA-D SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 19500 FOR ACTUAL REQUIREMENTS.
- EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 19500.
- COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 15, LOCAL FIRE MARSHAL, OWNER'S INSURANCE COMPANY AND ALL AUTHORITIES HAVING JURISDICTION.
- FIN. FL. ELEV. 201.76 (0'-0").

MATCH DWG. PFP1.02

MATCH DWG. PFP1.05



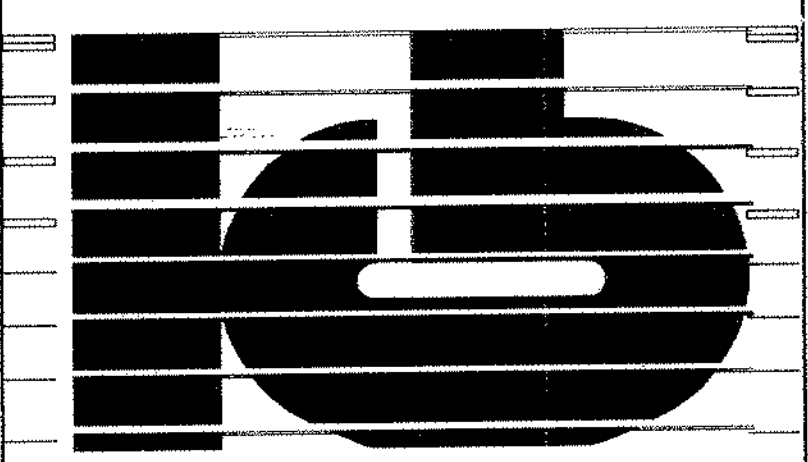
REVISIONS

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 BROOKFIELD, CT 06084
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WALTER MCILVEEN ASSOCIATES, INC.
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 AVON, CT 06001-0516



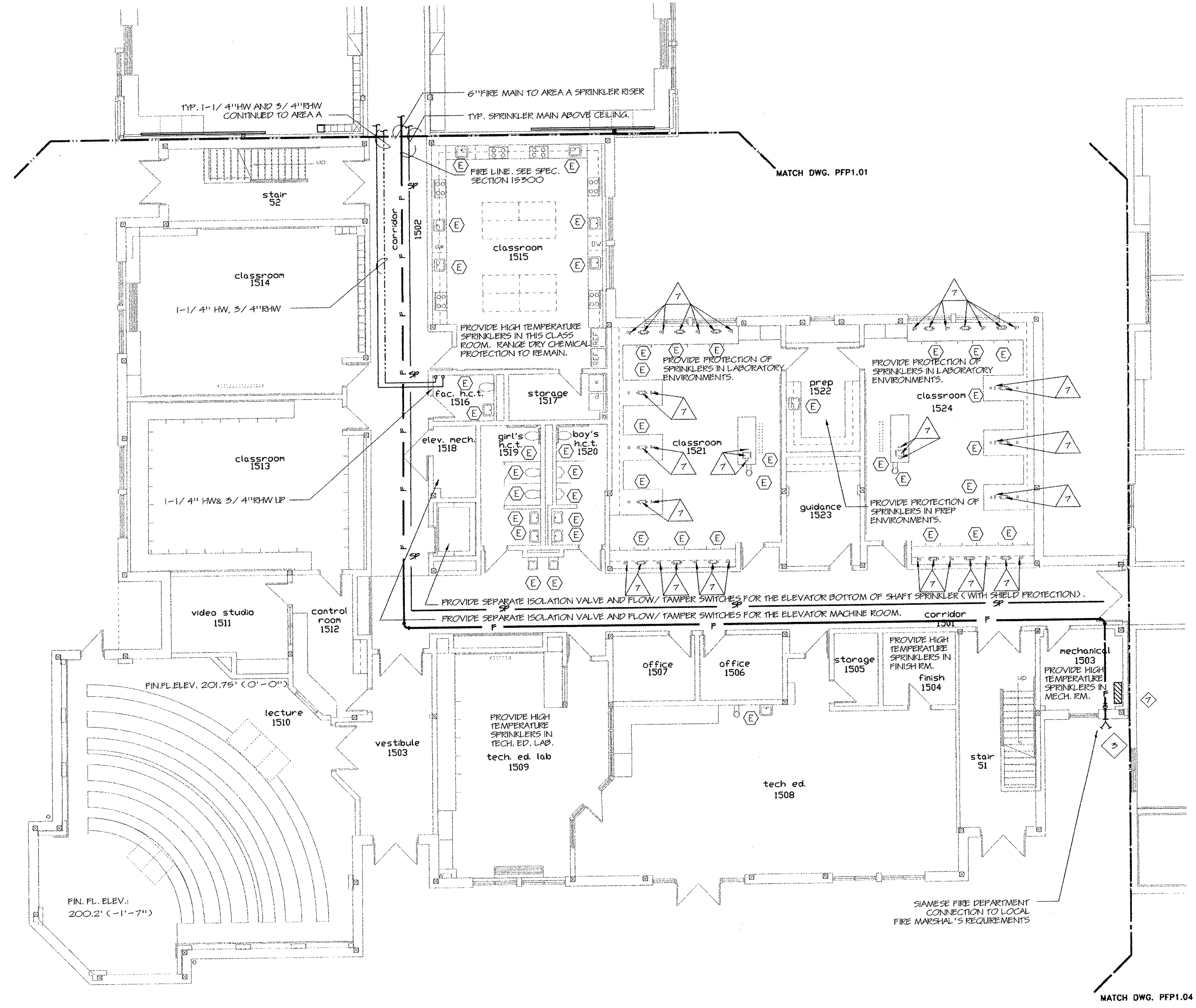
KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2590 C03 228-0361
 Drawn by: P.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN AREA E

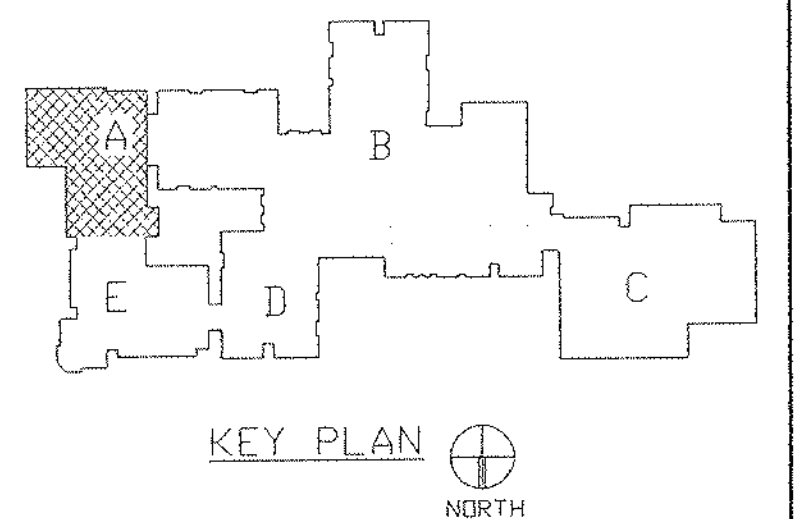
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **PPF1.05**



1 PLUMBING/FIRE PROTECTION MAIN LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES
- EXISTING AREA-E SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 19500 FOR ACTUAL REQUIREMENTS.
 - EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 19500.
 - COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 - FIN. PL. ELEV. 201.76' (0'-0") UNLESS NOTED OTHERWISE.



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OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516

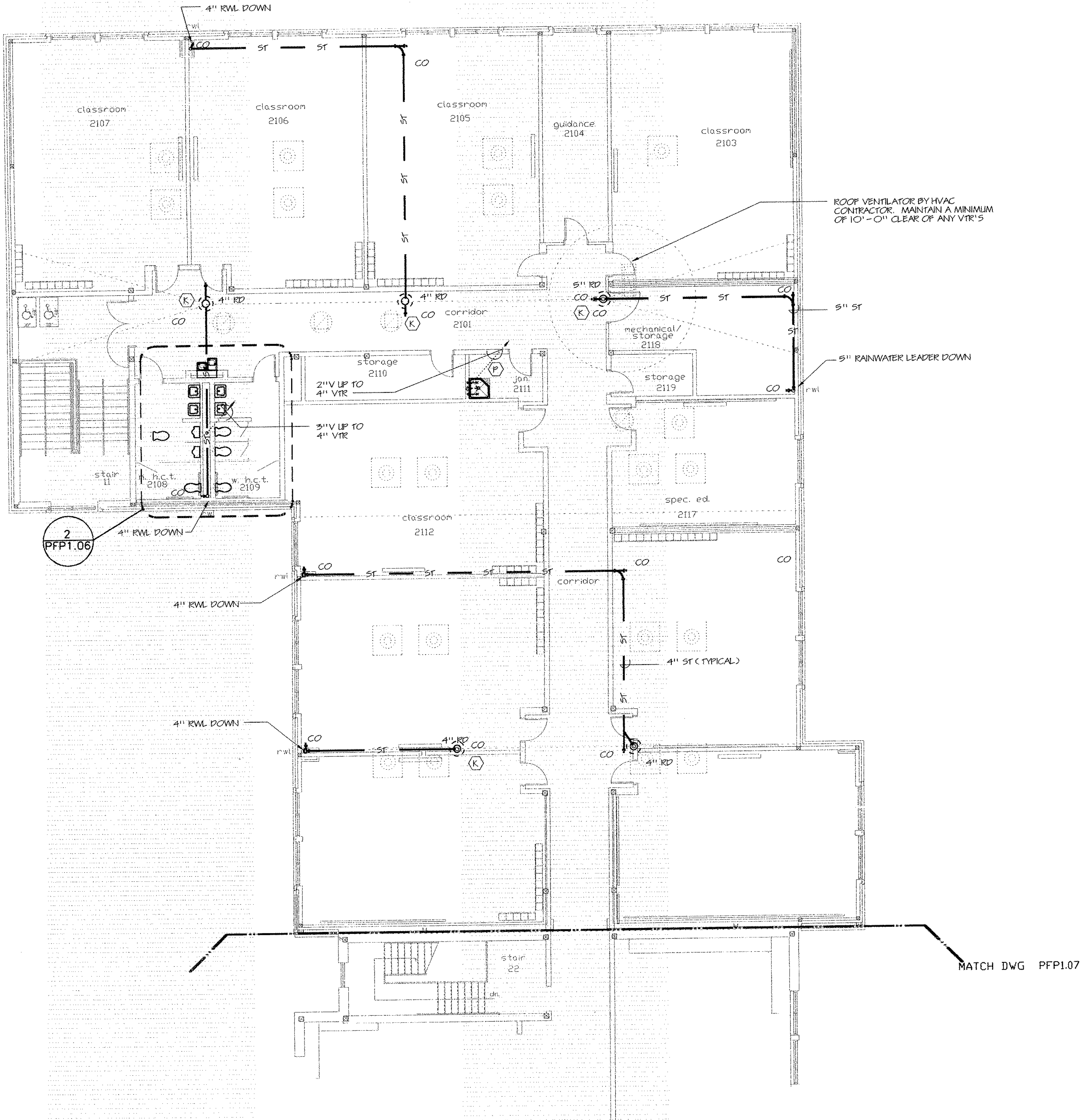


416 State Rd. New Britain, Connecticut 06050-2900 203 225-0361
 Drawn by: R.L. Scale: AS NOTED

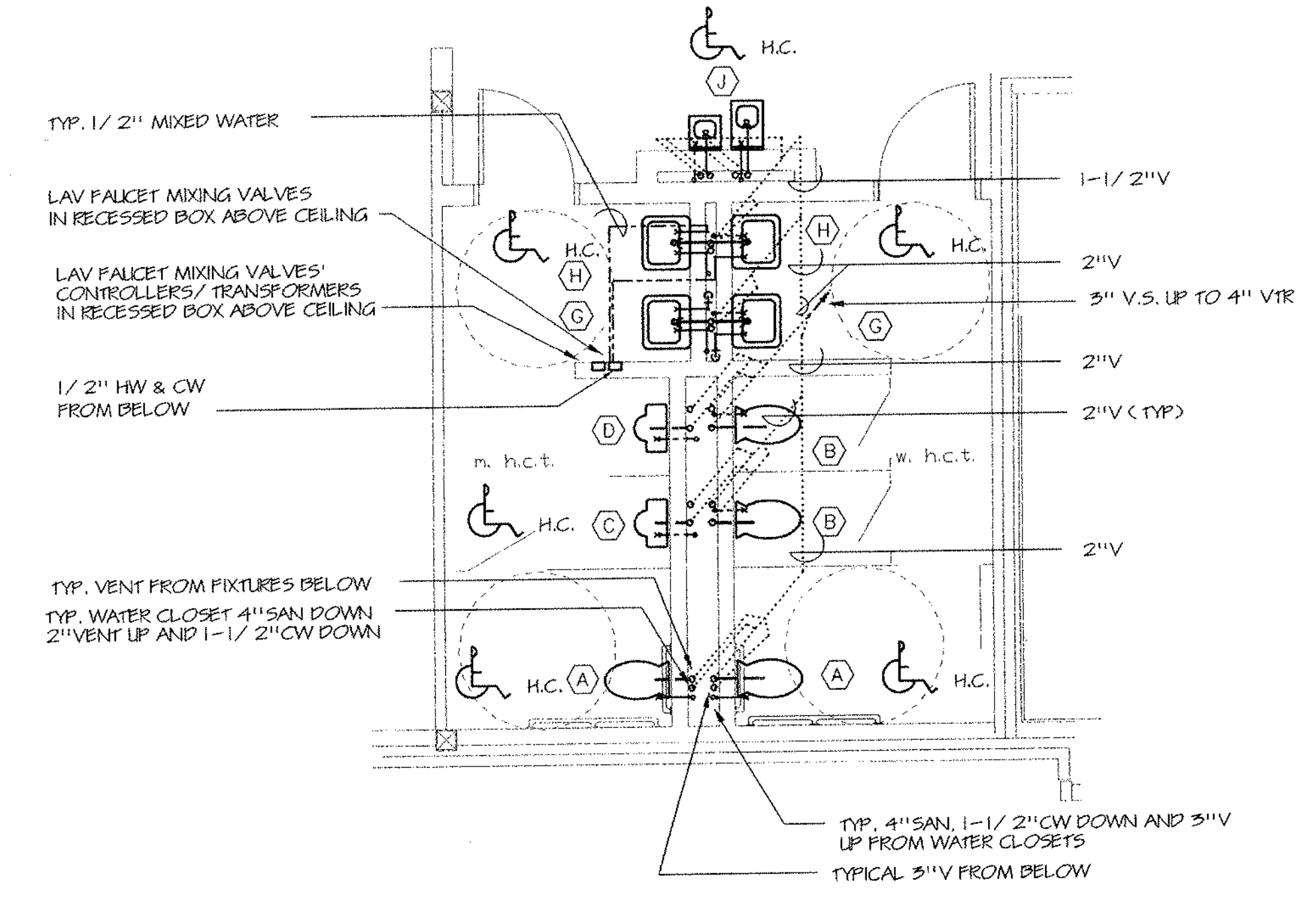
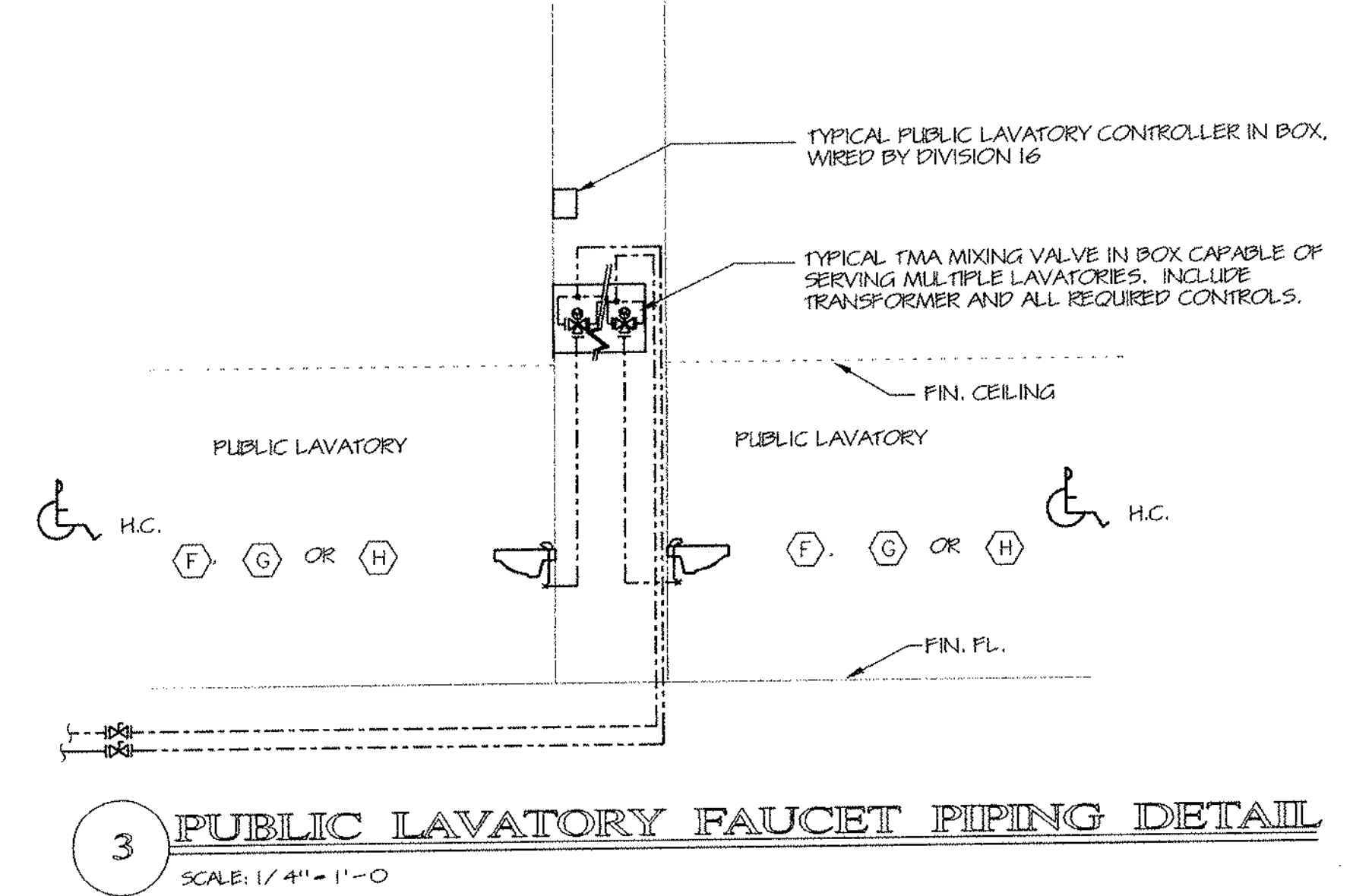
PLUMBING/FIRE PROTECTION UPPER LEVEL FLOOR PLAN AREA A

Project no. 45110 Drawing no.

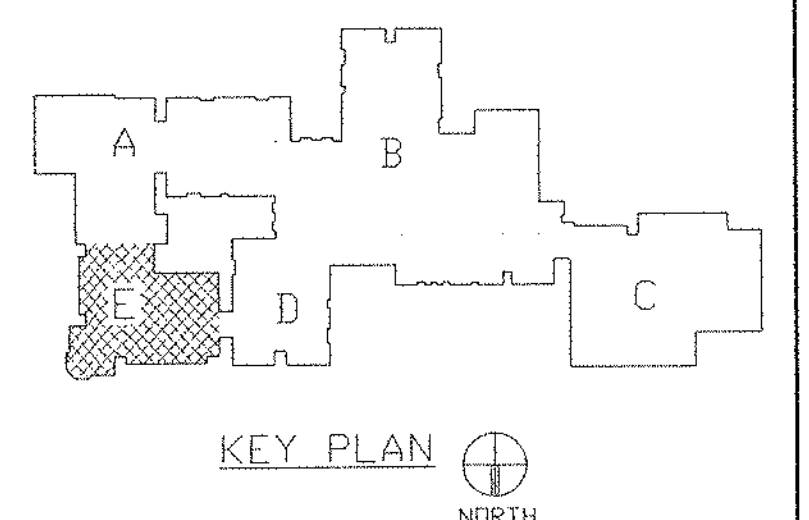
DATE: DECEMBER 16, 1993 **PPF1.06**



- 1 PLUMBING/FIRE PROTECTION UPPER LEVEL FLOOR PLAN - AREA A**
 SCALE: 1/8" = 1'-0"
- NOTES:
1. NEW AND EXISTING AREAS SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 15500 FOR ACTUAL REQUIREMENTS.
 2. EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 15500.
 3. COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 4. FIN. FLOOR ELEV. 201.76' (+0'-0")



2 PLUMBING/FIRE PROTECTION PART TOILET ROOM FLOOR PLAN
 SCALE: 1/4" = 1'-0"

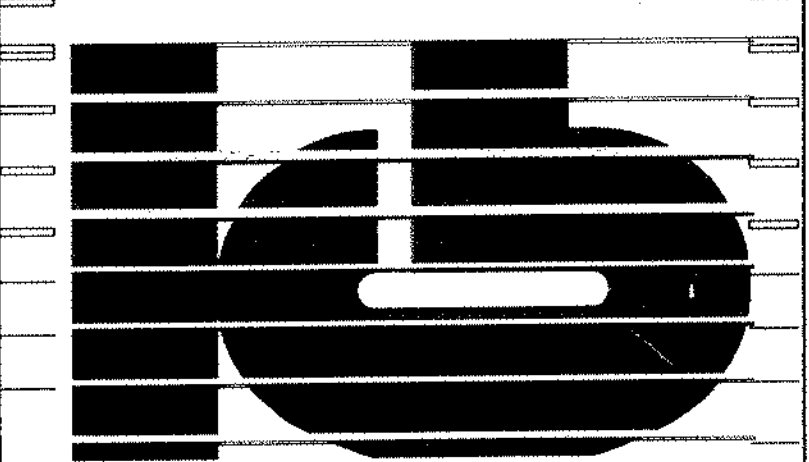


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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



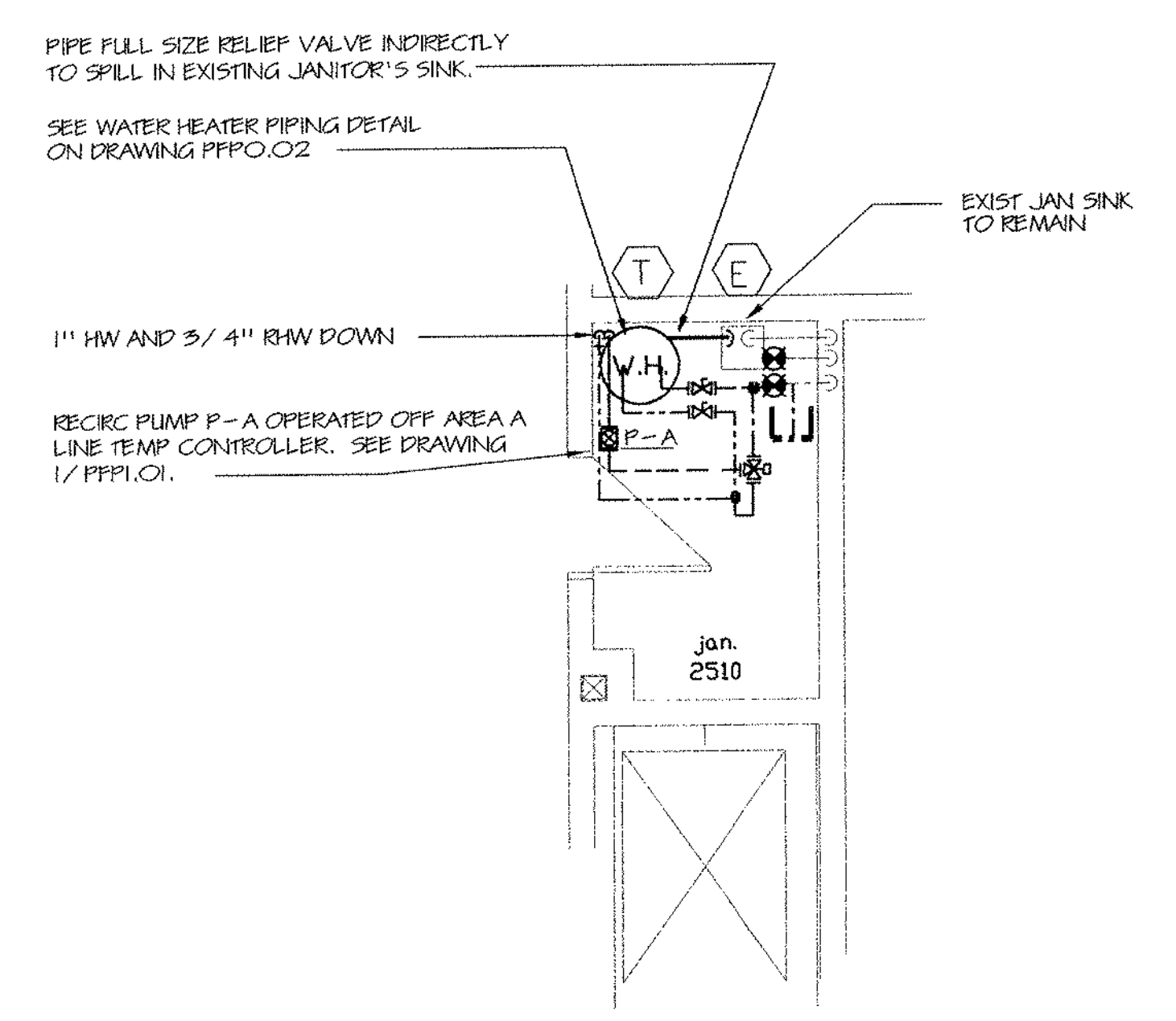
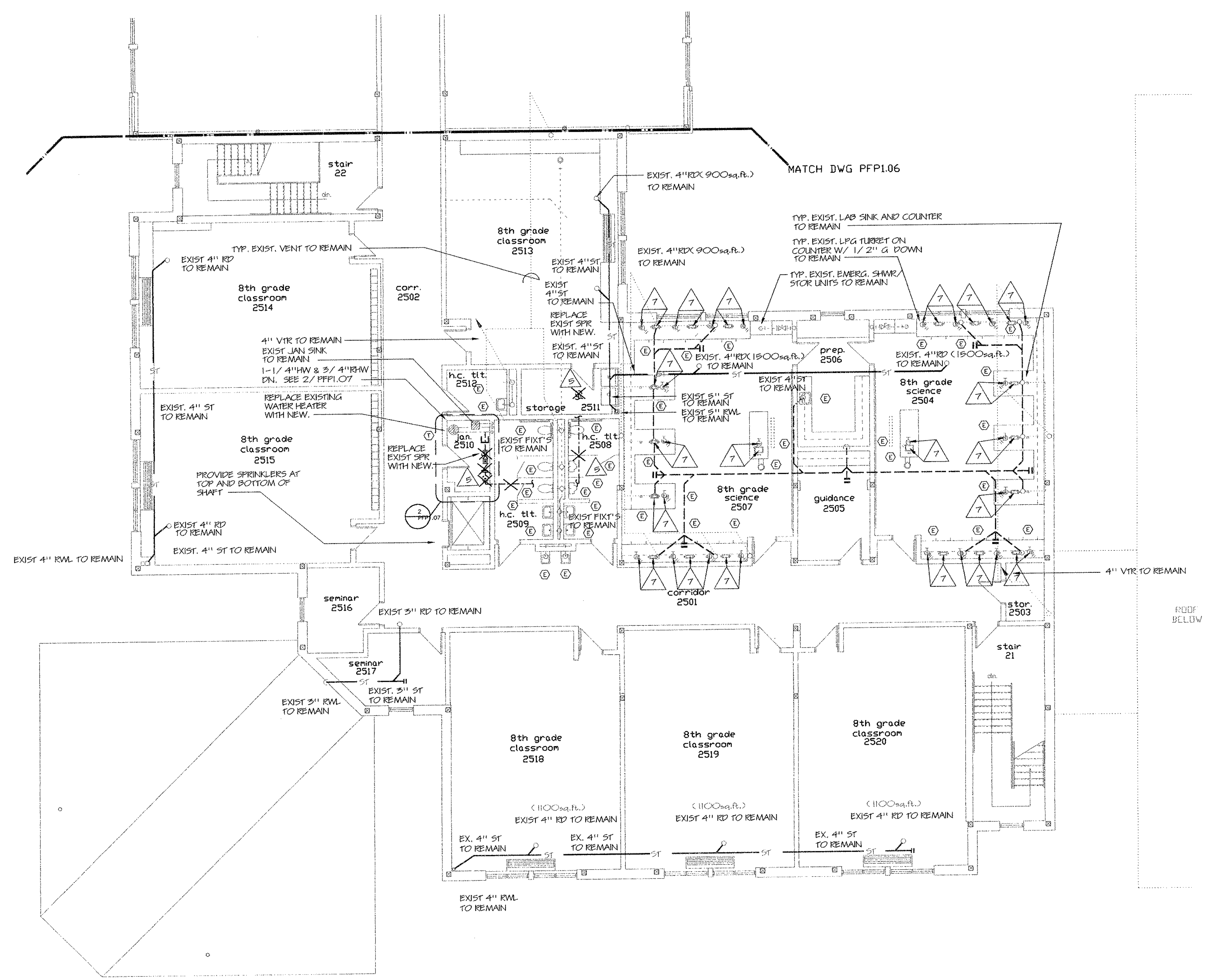
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

418 Suter Rd. New Britain, Connecticut 06050-2590 (203) 229-4381
 Drawn by: R.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION UPPER LEVEL FLOOR PLAN AREA E

Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **PPF1.07**



1 PLUMBING/FIRE PROTECTION UPPER LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

2 JANITOR CLOSET PLAN - AREA E
 SCALE: 1/4" = 1'-0"

- NOTES**
1. PROVIDE FULL SPRINKLER PROTECTION OF EXISTING AREA-E. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 15500 FOR ACTUAL REQUIREMENTS.
 2. EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 15500.
 3. COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE COMPANY AND ALL AUTHORITIES HAVING JURISDICTION.
 4. PROVIDE SPRINKLER PROTECTION AT TOP OF SHAFT, COMPLETE WITH SEPARATE FLOW SWITCH AND ISOLATION OS&Y VALVE WITH TAMPER SWITCH, ALL WIRED TO FIRE ALARM SYSTEM BY DIVISION 16; COORDINATE PRIOR TO ORDERING AND FABRICATION.
 5. EXISTING FIN. SECOND FL. ELEV. 219.75' (+14'-0")

GENERAL KITCHEN NOTES & LEGENDS

- NO. - NUMBER
- QTY - QUANTITY
- HW - Hot Water
- CW - Cold Water
- W - Waste (solid connection)
- IW - Indirect Waste (open)
- K.E.C. - Kitchen Equipment Contractor
- FD - Floor Drain (recommended size approximately 12"x12"x5" deep with removable sediment basket and floor grate)
- AF - Height above finished floor (approximate point of final connection)
- N.I.K.E.C. - Not in Kitchen Equipment Contract

WALK-IN REFRIGERATOR/FREEZER - ITEMS NO. 8

1. Kitchen Equipment Contractor to furnish and install indirect wastes for walk-in blower coils.

VENTILATOR W/ WASH & FIRE SYSTEMS - ITEM NO. 31

1. Fire extinguishing system shall be furnished and set-in-place by the Kitchen Equipment Contractor.
2. All Portable Fire Stations shall be located & installed by Fire Suppression supplier in coordination with all codes & Local Fire Authorities, under the direction of the Kitchen Equipment Contractor.

UTILITY DISTRIBUTION SYSTEM - ITEM NO. 32

- PLUMBING CONTRACTOR SHALL:**
1. Connect main sources of hot water and cold water services and furnish and install required shut-off valves for respective manifolds in Utility Distribution System.
 2. Make all plumbing connections at field joints. Connect main incoming plumbing to risers as shown on plan.

PLUMBING CONTRACTOR SHALL:

1. Furnish and install remote main shut-off valves for all hot water & cold water services.
2. Provide all supply pipes, traps, strainers, valves, pressure regulators and other fittings required by equipment; installation shall be under direct supervision of K.E.C. Ensure coordinated final locations prior to roughing.
3. Provide 140° Fahrenheit (minimum) hot water supply to Potwashing Assembly, Item No. 13.
4. Provide 140° Fahrenheit (minimum) hot water supply to Ventilator/Control Panel.
5. Extend all indirect wastes to nearest floor receptacle keeping equipment interiors as clear as possible.
6. Insulate all waste, cold water and hot water piping beneath handicap accessible sinks (even those furnished and/or installed by k.e.c.) with handi-lav-guard model 102 insulation kits.

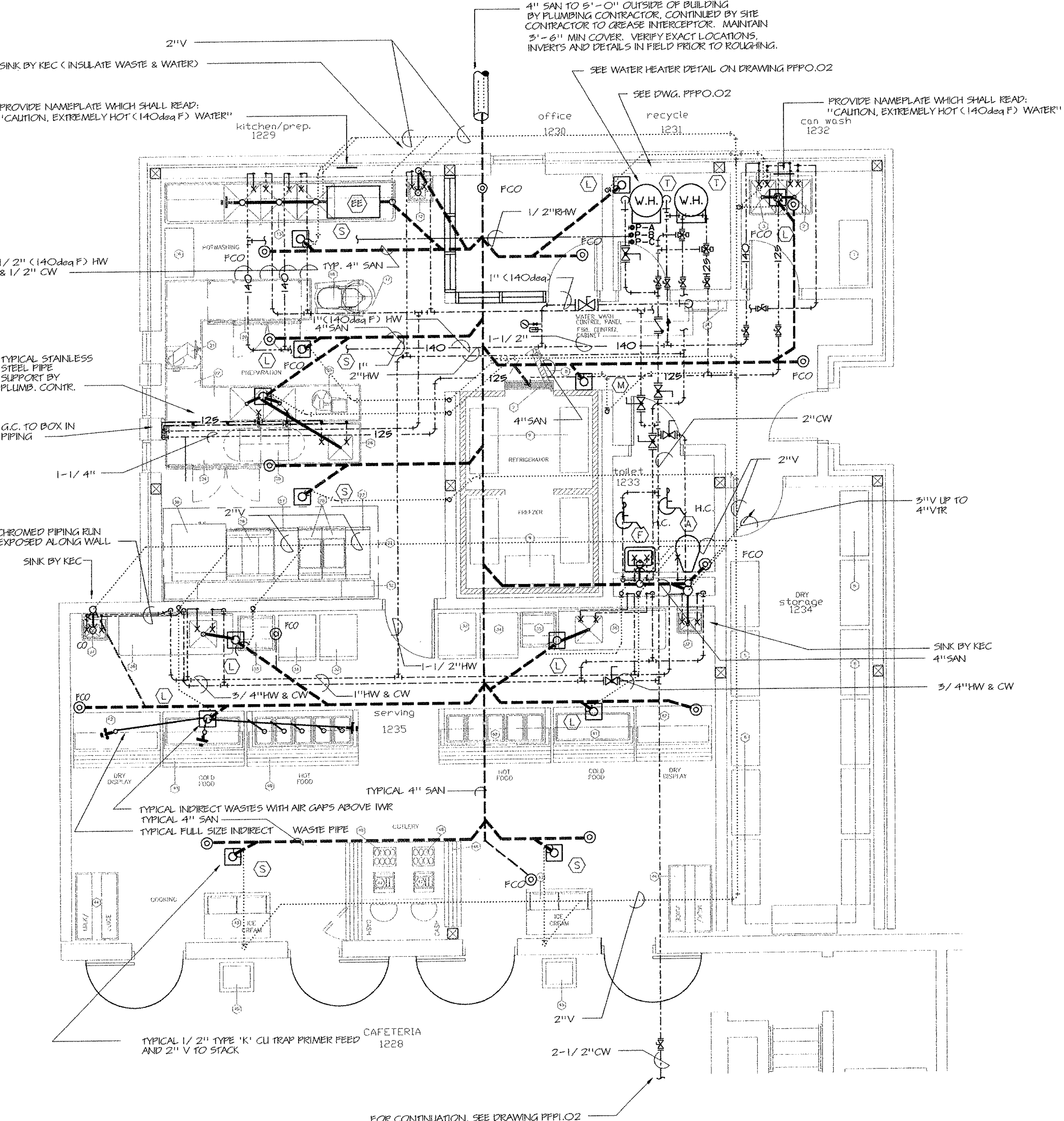
KITCHEN EQUIPMENT CONTRACTOR TO:

1. Coordinate all roughing requirements for the Utility Distribution System and Ventilator. All roughing requirements will be shown on the Kitchen Equipment Contractor's shop drawings. Coordinate with plumbing/fire protection contractors.
2. Install the Utility Distribution System and Ventilator in accordance with contract documents and manufacturer's recommendations. Factory engineer will be required on site during installation. Coordinate with plumbing/fire protection contractors.
3. Furnish and install equipment cable restraining devices as recommended by the manufacturer.
4. Furnish, connect and install all equipment/Utility Distribution System quick disconnect water hoses and all line cord and plug sets and restraining devices.

MISCELLANEOUS

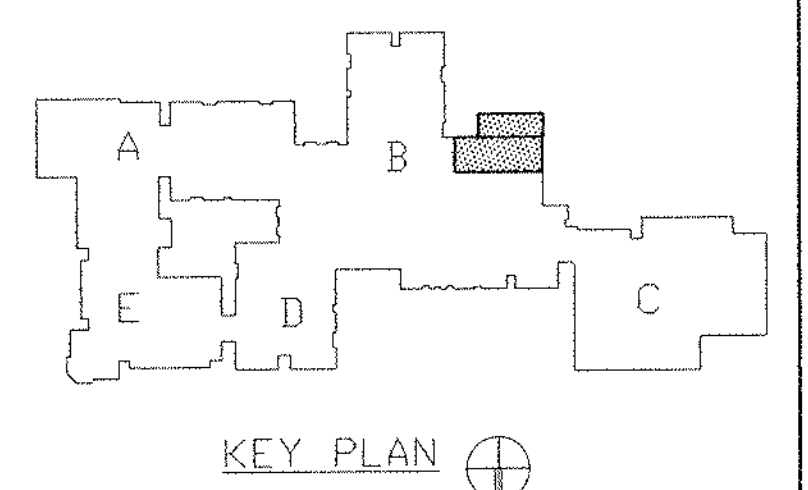
1. Area floor drains other than shown, waste piping, hot water piping, cold water piping and vent piping shall be provided by the plumbing contractor. Coordinate type and locations prior to ordering, fabrication and installation.
2. Locations of all services shown on Food Service Contract Drawings are approximate only; no allowances are made for traps, valves, etc. Coordinate final requirements prior to ordering, fabrication and installation.
3. All dimensions shown on Food Service Contract Drawings are from finished floors, walls, etc. and shall have roughing field verified by the Kitchen Equipment Contractor prior to testing by the authorities having jurisdiction and prior to closing in. Coordinate types, locations and all details prior to ordering, fabrication and installation.
4. All plumbing services are to be brought to the approximate points of connections shown within walls, chases, and other architectural elements provided. All roughing shall be field verified by the Kitchen Equipment Contractor prior to testing by the authorities having jurisdiction and prior to closing in. Coordinate types, locations and all details prior to ordering, fabrication and installation.
5. All piping, stops, valves, etc. exposed to view shall be polished chrome plated by the contractor furnishing them.

NO.	QTY.	DESCRIPTION	HOT WATER		W	V	IW	REMARKS
			110deg F	125deg F				
1	1	CAN RACK						
2	1	CAN WASHER & JANITOR'S SINK		3/4"	3/4"		(2) 2"	HW TO FDN (CONNECT FOOT PEDALS); PROVIDE HW/CW REDUCERS
3	1	HOSE REEL ASSEMBLY		3/4"	3/4"			PROVIDE HW/CW REDUCERS
4	4	STOREROOM FLOOR RACKS						MOBILE
5	8	STOREROOM SHELVING SECTIONS						MOBILE
6	1	FLOOR TROUGH WITH GRATING			3"	2"		WASTE IN DEPRESSION
7	1	WALK-IN REFRIGERATOR/FREEZER					1"	HW TO FLOOR DRAIN
8	1	WALK-IN REFRIGERATOR EVAPORATOR COIL					1"	FLUE FOR FRESH AIR BLOWER; SEE FRESH AIR & EXHAUST OTHER FOOD SERVICE DRAWINGS
9	1	WALK-IN FREEZER EVAPORATOR COIL						E.O.
10	1	WALK-IN FREEZER DRAIN LINE HEATER						E.O.
11	1	WALK-IN LIGHTS						E.O.
12	1	WALK-IN VENT PORT & AUDIO VISUAL ALARM						E.O.
13	5	REFRIGERATED SHELVING SECTIONS						MOBILE
14	1	COMPRESSOR RACK						SEE ROUGH-IN PLANS
15	1	HAND SINK	1/2"		1/2"	1-1/2"	1-1/4"	HW, CW, WASTE
16	1	POT WASHING ASSEMBLY		2) 3/4"	2) 3/4"		(3) 2"	HW TO FLOOR DRAINS PROVIDE HW/CW REDUCERS
17	1	POT WASHING ASSEMBLY						MOBILE
18	1	POT & PAN RACK						MOBILE
19	1	MIXER PARTS RACK						E.O.
20	1	40 QUART MIXING MACHINE						E.O.
21	1	UNDERCOUNTER REFRIGERATOR						SR
22	1	SLICING MACHINE						SR
23	1	PREPARATION TABLE WITH SINKS	1/2"		1/2"		(2) 2"	HW, CW, HW TO FDN OR CONVENIENCE OUTLET
24	1	FOOD CUTTER						SR
25	1	UNDERCOUNTER REFRIGERATOR						SR
26	1	UTENSIL RACK						MOBILE
27	1	COOK'S TABLE WITH SINK	1/2"		1/2"		2"	HW, CW, HW TO FDN
28	2	18" SPREADER CABINETS						INTERCONNECTED TO U.D.S., ITEM NO. 32
29	2	DEEP FAT FRYERS						INTERCONNECTED TO U.D.S., ITEM NO. 32
30	1	HOT-TOP RANGE WITH OVEN						INTERCONNECTED TO U.D.S., ITEM NO. 32
31	1	DOUBLE DECK CONVECTION OVEN						INTERCONNECTED TO U.D.S., ITEM NO. 32
32	1	VENTILATOR W/ WASH & FIRE SYSTEMS						MOBILE, SR
33	1	UTILITY DISTRIBUTION SYSTEM						MOBILE, SR
34	2	HOT TRANSPORT CABINETS						MOBILE
35	2	COLD TRANSPORT CABINETS						MOBILE
36	2	UTILITY RACKS			1/2"		2"	HW, CW, HW TO FDN
37	2	BACK COUNTERS WITH WORK SINKS	1/2"		1/2"	1-1/2"	1-1/4"	HW, CW, WASTE
38	2	HAND SINKS	1/2"		1/2"	1-1/2"	1-1/4"	HW, CW, WASTE
39	1	SPARE NO.						
40	1	SPARE NO.						
41	2	HOT FOOD COUNTERS W/ PROTECTOR CASES					4) 1"	HW TO FLOOR DRAIN - MOBILE, 30-TOP, LIGHT & HEAT LAMP'S, TRAYSIDE, SR
42	2	COLD FOOD COUNTERS W/ DISPLAY CASES					1"	HW TO FLOOR DRAIN - SR, MOBILE, 30-TOP, LIGHTS, TRAYSIDE
43	2	DRY COUNTERS W/ DISPLAY CASES					1"	HW TO FLOOR DRAIN - SR, MOBILE, LIGHTS, TRAYSIDE
44	2	ICE CREAM MERCHANTISERS						MOBILE, SR
45	2	MILK/JUICE DISPENSERS						MOBILE, SR
46	2	TRAY DISPENSERS						MOBILE
47	1	CASHER COUNTER						STATIONARY UNIT DWS CALL ON RECORDED CIRCULARS FOR ITEM # 47
48	2	CASH RECEIPTS (N.I.K.E.C.)						
49	2	CUTLERY DISPENSERS						
50	1	SPARE NO.						
51	1	SPARE NO.						



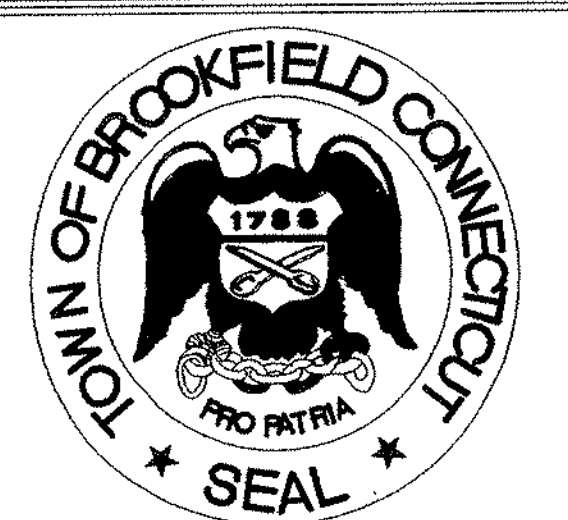
PLUMBING/FIRE PROTECTION KITCHEN FLOOR PLAN
SCALE: 1/4" = 1'-0"

- NOTES:**
1. KITCHEN SHALL BE FULLY SPRINKLERED. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR INITIAL LOCATIONS OF SPRINKLERS. REFER TO SPECIFICATION SECTION 19300 FOR ACTUAL REQUIREMENTS.
 2. EXISTING CEILINGS SHALL BE REVAMPED AS REQUIRED TO SUIT NEW WORK. PROVIDE PACKED SLEEVES AND SEAL ALL PENETRATIONS OF SPRINKLER PIPING IN AN APPROVED MANNER. SEE SPECIFICATION SECTION 19300.
 3. COMPLETE INSTALLATION OF SPRINKLER PROTECTION SHALL BE TO THE REQUIREMENTS OF NFPA 13, LOCAL FIRE MARSHAL, OWNER'S INSURANCE AGENT AND ALL AUTHORITIES HAVING JURISDICTION.
 4. PIPING SHALL BE SUITABLE FOR THE SERVICES INTENDED. WATER PIPING SHALL BE TYPE 'L' INSULATED COPPER. SANITARY VENT & STORM PIPING SHALL BE NO HUB C.I. (1-1/2" AND SMALLER SHALL BE TYPE 'L' COPPER). LPG PIPING SHALL BE SCHEDULE 40 BLACK STEEL THREADED.
 5. SIZING SHALL AS FOLLOWS: SANITARY (4" UNLESS INDICATED OTHERWISE), STORM (AS INDICATED), GAS (3" MAINS TO BRANCHES INDICATED), VENT (2" UNLESS INDICATED OTHERWISE), HW (1-1/4" TO ROUNDOUTS), CW (2" MAINS TO ROUNDOUTS & 1 1/2" TO ROUNDOUTS), VAC (1-1/2"), O (1" TO ROUNDOUTS)



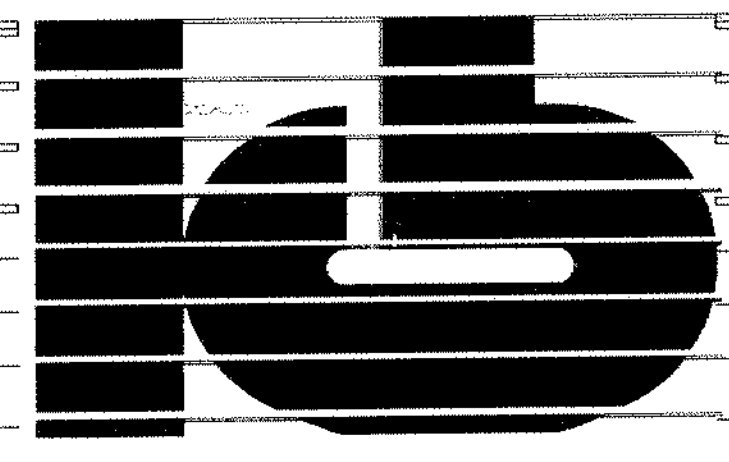
REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWING ISSUED FOR STATE DEPT. OF EDUCATION REVIEW.
OCTOBER 4, 1999		DRAWING ISSUED FOR PERMITS AND CONSTRUCTION PURPOSES.



ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT
WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA
& 018-041 A/TCH

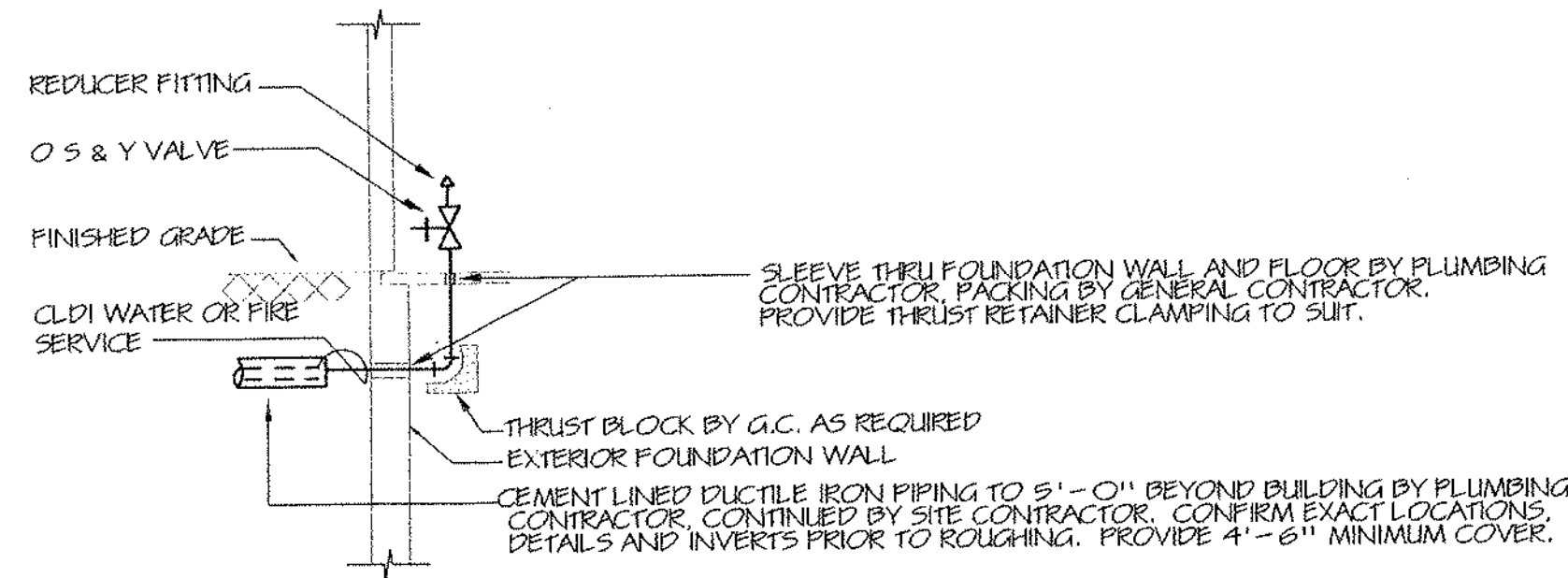
WALTER MCILVEEN ASSOCIATES, INC.
CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516



KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

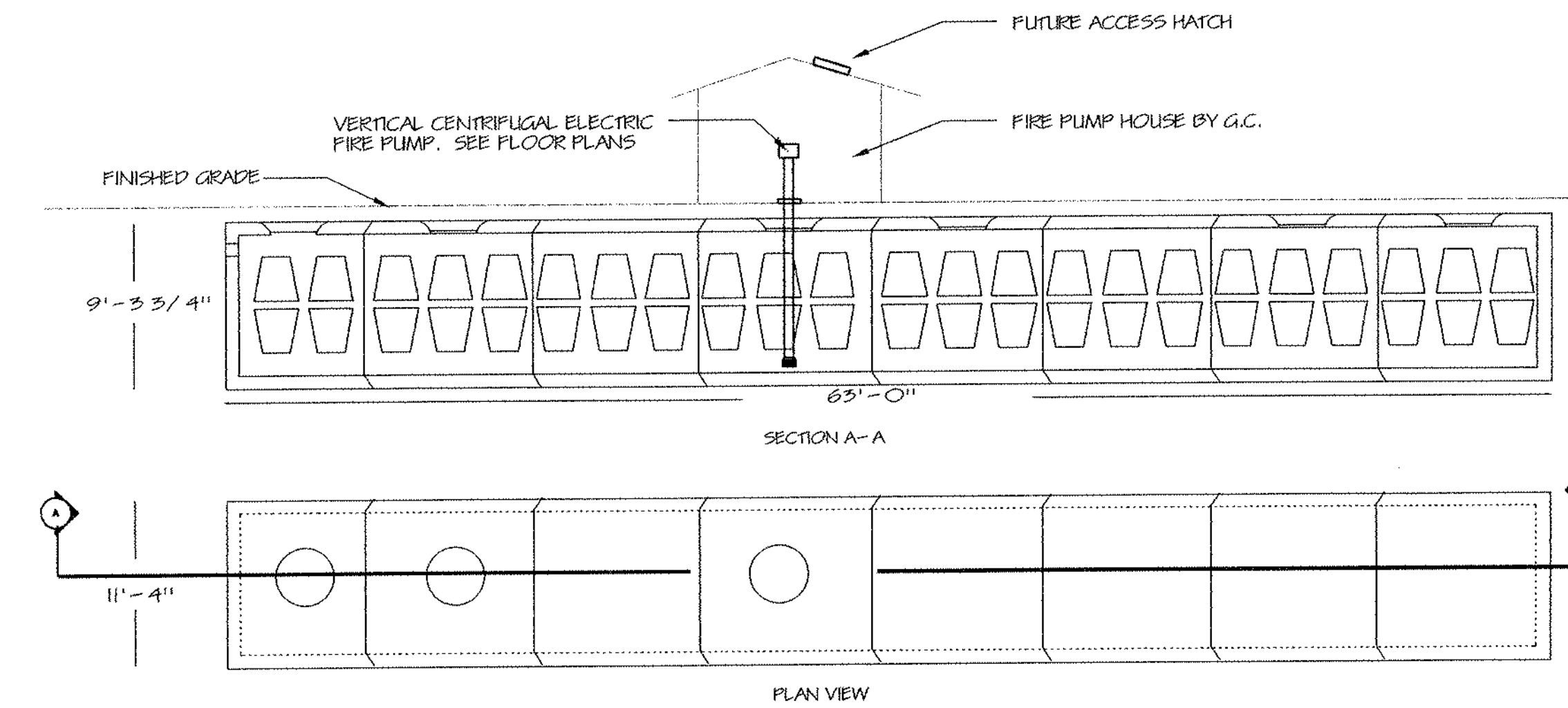
416 Slaters Rd. New Britain, Connecticut 06050-2590 (203) 229-0361
Drawn by: J.L. Scale: AS NOTED

PLUMBING/FIRE PROTECTION KITCHEN FLOOR PLAN



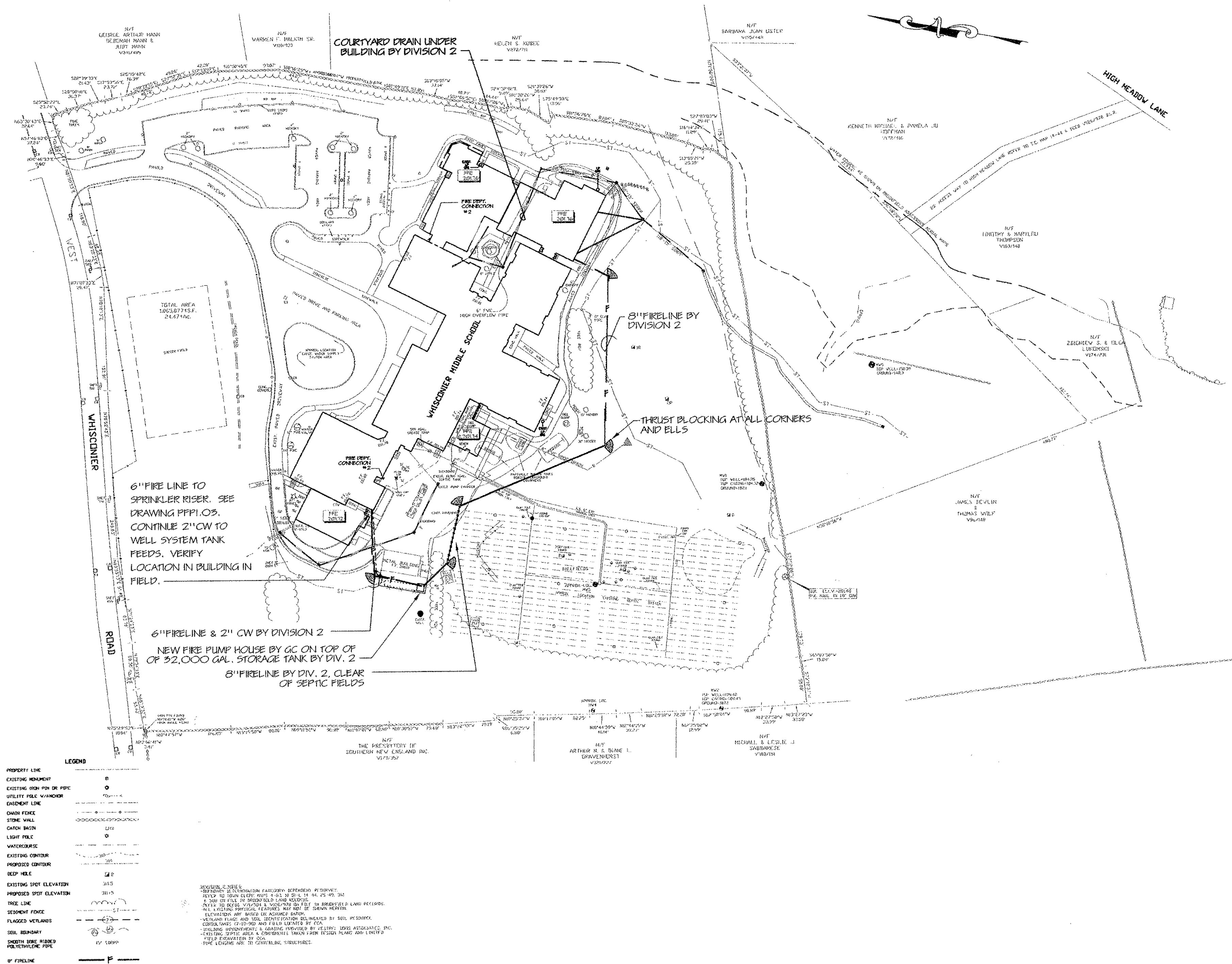
2 FIRE PROTECTION SERVICE ENTRY DETAIL
SCALE: AS NOTED

NOTES:
1. PLUMBING AND FIRE PROTECTION CONSTRUCTION COMMENCES WITHIN 5'-0" OF BUILDING; DIVISION 2 SHALL CONTINUE PIPING AS INDICATED AND REQUIRED.



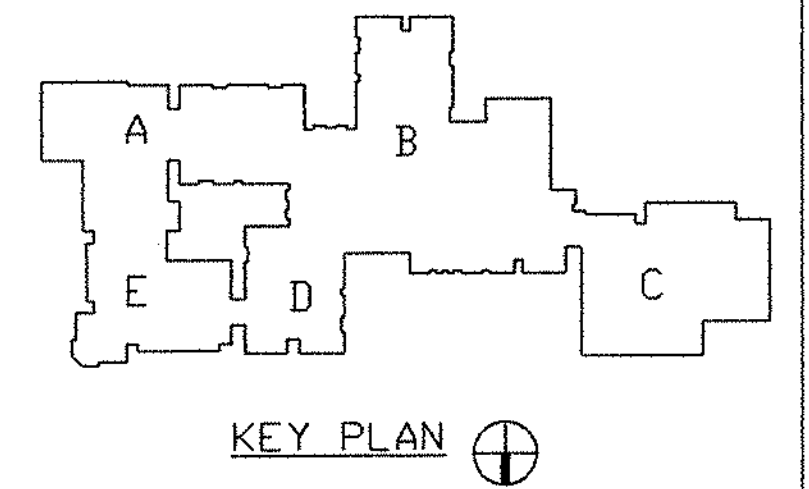
3 FIRE PROTECTION STORAGE TANK DETAIL
SCALE: NONE

NOTES:
1. UNDERGROUND STORAGE TANK, WELL PUMP AND SITE PIPING BY SITE CONTRACTOR. SEE SPECIFICATION SECTION 15500 AND DRAWING PFP3.01.
2. FIRE PROTECTION STORAGE TANK SHALL BE EQUAL TO ROTONDO PRECAST ANCREL LWB 410 - 32.
3. FIRE PROTECTION CONSTRUCTION COMMENCES WITHIN 5'-0" OF BUILDING; DIVISION 2 SHALL CONTINUE PIPING AS INDICATED AND REQUIRED.



1 PLUMBING/FIRE PROTECTION SITE UTILITY PLAN
SCALE: AS NOTED

NOTES:
1. PLUMBING AND FIRE PROTECTION CONSTRUCTION COMMENCES WITHIN 5'-0" OF BUILDING; DIVISION 2 SHALL CONTINUE PIPING AS INDICATED AND REQUIRED.
2. FIRE PROTECTION CONTRACTOR SHALL HAVE THEIR FIRE PROTECTION ENGINEER INDICATED IN SPECIFICATION SECTION 15500 INCLUDE ALL NECESSARY CALCULATIONS BASED UPON ACTUAL INSTALLATION ARRANGEMENTS OF DIVISION 2 AND SHALL BE RESPONSIBLE TO COORDINATE SAME AND INCLUDE ALL MODIFICATIONS NECESSARY IN HIS BID. INDICATIONS OF PIPING, SIZING, INVERTS, ELEVATIONS AND DETAILS ARE ONLY AN INITIAL GUIDE FOR THE DESIGNING OF THE FIRE PROTECTION SYSTEM INDICATED IN SPECIFICATION SECTION 15500 AND SHALL NOT BE TAKEN AS ACCURATE.



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ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
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WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA
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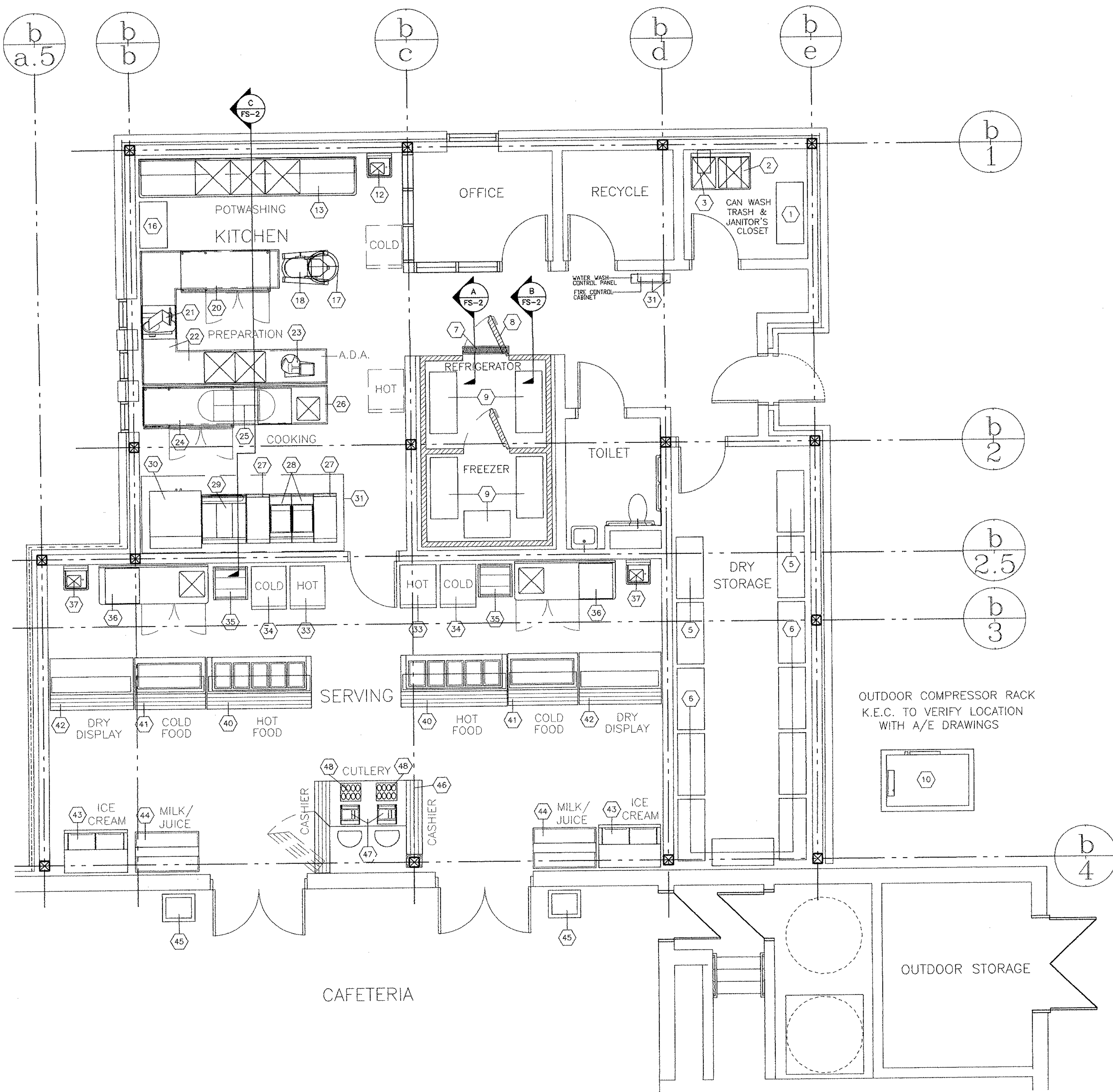
WALTER MCILVEEN ASSOCIATES, INC.
CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516



416 Slater Rd. New Britain, Connecticut 06050-2590 (203) 229-0361
Drawn by: R.L. Scale: AS NOTED

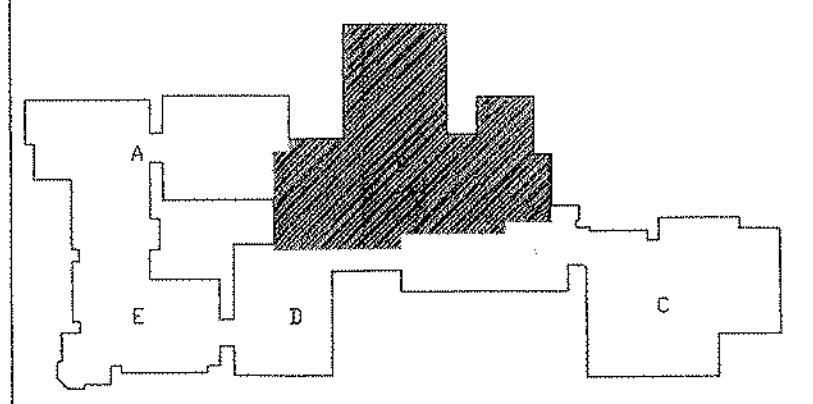
PLUMBING/FIRE PROTECTION SITE PLAN

Project no. 45110 Drawing no.
Date: DECEMBER 16, 1998 **PFP3.01**



SCHEDULE OF FOOD SERVICE EQUIPMENT

NO.	QTY.	DESCRIPTION	HW	CW	W	IW	HP	KW	AMPS	VOLTS	CFM SUP	CFM RET	REMARKS
1	1	CAN RACK											MOBILE
2	1	CAN WASHER & JANITOR'S SINK	1/2"	1/2"		(2) 2"							HW, CW, IWs TO FDS (CONNECT FOOT PEDALS)
3	1	HOSE REEL ASSEMBLY	1/2"	1/2"									HW, CW
4	-	SPARE NO.											
5	4	STOREROOM FLOOR RACKS											MOBILE
6	8	STOREROOM SHELVING SECTIONS											MOBILE
7	1	FLOOR TROUGH WITH GRATING				3"							WASTE IN DEPRESSION
8	1	WALK-IN REFRIGERATOR/FREEZER											
		WALK-IN REFRIGERATOR EVAPORATOR COIL							6.1	120-14			EO, IW TO FLOOR DRAIN
		WALK-IN FREEZER EVAPORATOR COIL							*	*			* ELECTRIC FOR FREEZER BLOWER COIL FROM COMPRESSOR RACK. SEE ROUGH-IN & DETAIL - DWG. NO. FS-3
		WALK-IN FREEZER DRAIN LINE HEATER							1.0	120-14			E.O.
		WALK-IN LIGHTS							(2) .200	120-14			E.O.
		WALK-IN VENT PORT & AUDIO/VISUAL ALARM							0.5				E.O.
9	5	REFRIGERATED SHELVING SECTIONS											MOBILE
10	1	COMPRESSOR RACK							15.1	208-34			SEE ROUGH-IN PLANS
11	-	SPARE NO.											
12	1	HAND SINK	1/2"	1/2"	1-1/2"								HW, CW, WASTE
13	1	POTWASHING ASSEMBLY W/ OVERSHELF	2) 1/2"	2) 1/2"		(3) 2"							HWs, CWs, IWs TO FLOOR DRAINS
14	-	SPARE NO.											
15	-	SPARE NO.											
16	1	POT & PAN RACK											MOBILE
17	1	MIXER PARTS RACK											E.O.
18	1	40 QUART MIXING MACHINE					1-1/2						208-34
19	-	SPARE NO.											
20	1	UNDERCOUNTER REFRIGERATOR					1/3		7.6	120-14			SR
21	1	SLICING MACHINE					1/2			120-14			SR
22	1	PREPARATION TABLE WITH SINKS	1/2"	1/2"		(2) 2"			20.0 (seen)	120-14			UNIT TO BE A.D.A. ACCESSIBLE HW, CW, IWs TO FDS, DRs (CONVENIENCE OUTLETS)
23	1	FOOD CUTTER					1/2			208-14			SR
24	1	UNDERCOUNTER REFRIGERATOR					1/3		7.6	120-14			SR
25	1	UTENSIL RACK											
26	1	COOK'S TABLE WITH SINK	1/2"	1/2"		2"			20.0	120-14			HW, CW, IW TO FD, DR (CONVENIENCE OUTLET)
27	2	18" SPREADER CABINETS											MOBILE
28	2	DEEP FAT FRYERS						21.0		480-34			MOBILE, EO
29	1	HOT-TOP RANGE WITH OVEN						21.7		480-34			EO
30	1	DOUBLE DECK CONVECTION OVEN						22.0		480-34			MOBILE, EOs
31	1	VENTILATOR W/ WASH & FIRE SYSTEMS									3950	3160	SEE ROUGH-IN DETAIL
32	-	SPARE NO.											
33	2	HOT TRANSPORT CABINETS						2.0		120-14			MOBILE, SR
34	2	COLD TRANSPORT CABINETS						1/4	7.5	120-14			MOBILE, SR
35	2	UTILITY RACKS											MOBILE
36	2	BACKCOUNTERS WITH WORK SINKS	1/2"	1/2"		2"							HW, CW, IW TO FD
37	2	HAND SINKS	1/2"	1/2"	1-1/2"								HW, CW, WASTE
38	-	SPARE NO.											
39	-	SPARE NO.											
40	2	HOT FOOD COUNTERS W/ PROTECTOR CASES				5) 1"		6.2	30.9	120/208-14			MOBILE, BE-TOP, LIGHTS & HEAT LAMPS, TRAYSIDE SR, IW TO FLOOR DRAIN
41	2	COLD FOOD COUNTERS W/ DISPLAY CASES				1"	1/3		8.0	120-14			MOBILE, BE-TOP, LIGHTS, TRAYSIDE SR, IW TO FLOOR DRAIN
42	2	DRY COUNTERS W/ DISPLAY CASES							15.0	120-14			MOBILE, LIGHTS, TRAYSIDE, SR, IW TO FLOOR DRAIN
43	2	ICE CREAM MERCHANDISERS					1/2		8.4	120-14			MOBILE, SR, IW TO FLOOR DRAIN
44	2	MILK/JUICE DISPENSERS					1/4		4.6	120-14			MOBILE, SR
45	2	TRAY DISPENSERS											MOBILE
46	1	CASHIER COUNTER								120-14			STATIONARY UNIT SPEC. ALL DR. DEDICATED CIRCUITS FOR ITEM # 47
47	2	CASH REGISTERS (N.I.K.E.C.)											
48	2	CUTLERY DISPENSERS											
49	-	SPARE NO.											
50	-	SPARE NO.											

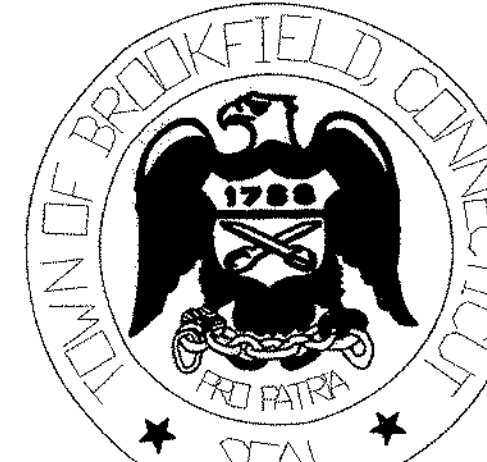


KEY PLAN

REVISIONS

DATE	MARK	DESCRIPTION
January 4, 1999		drawings issued for state review

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS
GENERAL NOTES AND WALL TYPES
SEE SHEETS R0.01 & R0.02


 TOWN OF BROOKFIELD CONNECTICUT
 ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

ZARALBAN & ASSOCIATES, INC.
 FOOD FACILITIES PLANNERS & CONSULTANTS
 4250 VETERANS HIGHWAY, SUITE 1040
 HOLBROOK, NEW YORK 11741
 516-630-3455 FAX: 516-630-3459

GENERAL NOTES & LEGENDS

- NO. - NUMBER
- QTY - QUANTITY
- HW - Hot Water
- CW - Cold Water
- W - Waste (solid connection)
- IW - Indirect Waste (open)
- HP - Horsepower
- KW - Kilowatt
- CFM - Cubic Feet Per Minute
- EXH - Exhaust Air
- RET - Return (Supply) Air
- FD - Floor Drain (recommended size approximately 12"x12"x2" deep with removable sediment basket and floor grate)
- EO - Electrical Outlet (solid connection)
- DR - Duplex Receptacle
- SR - Single Receptacle
- AFF - Height above finished floor (approximate point of final connection)
- N.I.K.E.C. - Not in Kitchen Equipment Contract

WALK - IN REFRIGERATOR/FREEZER - ITEM NO. 8

1. Electrical Contractor to install and interwire additional lights in ceilings of walk-in boxes. Fixtures to be provided by the Kitchen Equipment Contractor.
2. Electrical Contractor to field wire thermostats to solenoid valves in the walk-in boxes.
3. Electrical Contractor to wire alarms to location directed by the Architect. Audio/visual alarms provided and installed by the Kitchen Equipment Contractor.
4. Freezer - Electrical Contractor to interwire thermostats to solenoid valves. In addition, Electrical Contractor to interwire time clocks at the refrigeration package to junction boxes located at the blower coils.
5. Kitchen Equipment Contractor to furnish and install indirect wastes for walk-in blower coils.
6. Kitchen Equipment Contractor to furnish and install all necessary and concealed refrigeration lines from the refrigeration package to the blower coils in the walk-in boxes.
7. Kitchen Equipment Contractor to furnish and set-in-place, refrigeration package for Walk-in Refrigerators/Freezers. See Architectural/Mechanical drawings for location of refrigeration package.
8. K.E.C. to coordinate with trades all penetration locations required for refrigeration lines and conduit runs. Penetrations sealed by applicable trades.
9. Emergency electrical power is required for Walk-in Refrigerator/Freezer equipment shown on these contract drawings.

REMOTE REFRIGERATION PACKAGE - ITEM NO. 10

1. Refrigeration package to measure approximately 46" long x 34" wide x 33" high and weighs approximately 560 pounds.
2. General Contractor to furnish curbing or dunnage as required to support compressor rack assembly. Exact final location of curbing or dunnage and compressor rack to be shown on Architectural/Mechanical Drawings.
3. Unit to be furnished and set in place by the Kitchen Equipment Contractor. Kitchen Equipment Contractor to verify exact location and coordinate all support requirements.

VENTILATOR W/ WASH & FIRE SYSTEMS - ITEM NO. 31

1. Electrical Contractor to provide all interwiring between ventilator control cabinet, fire extinguishing systems and roof-top exhaust/supply fan machinery.
2. Electrical Contractor to interwire fire extinguishing system relay and system alarm bell, and interwire to building alarm system.
3. Wiring of fan control and fire extinguishing system to be in accordance with applicable national and/or local codes.
4. Fire extinguishing system shall be furnished and set-in-place by the Kitchen Equipment Contractor.
5. All Remote Pull Stations shall be located & installed by Fire Suppression supplier in coordination with all codes & Local Fire Authorities.
6. Contractor to supply hood.

PLUMBING CONTRACTOR

1. Furnish and install remote main shut-off valves for hot water & cold water services.
2. Furnish and install all supply pipes, traps, strainers, valves, pressure regulators and other fittings required by equipment, or shipped loose with equipment.
3. Provide 140° Fahrenheit (minimum) hot water supply to Potwashing Assembly, Item No. 13.
4. Provide 140° Fahrenheit (minimum) hot water supply to Ventilator/Control Panel.
5. Extend all indirect wastes to nearest floor receptacle keeping equipment interiors as clear as possible.
6. All faucets, wastes, vacuum breakers required for equipment shall be furnished loose by the Kitchen Equipment Contractor, and shall be installed by the Plumbing Contractor.

MISCELLANEOUS


1. Convenience electrical outlets and area floor drains other than shown, waste piping, etc. to be located and furnished by respective trades.
2. Locations of all services shown on Food Service Contract Drawings are approximate only; no allowances are made for traps, valves, etc.
3. All dimensions shown on Food Service Contract Drawings are from finished floors, walls, etc.
4. All plumbing, electrical, and H.V.A.C. services are to be brought to the approximate points of connections shown within walls, chases, and other architectural elements provided.
5. All piping exposed to view to be chrome plated.
6. All electric equipment furnished at 3 phase must have balanced legs where applicable. Kitchen Equipment Contractor to verify requirements with Electrical Engineers.

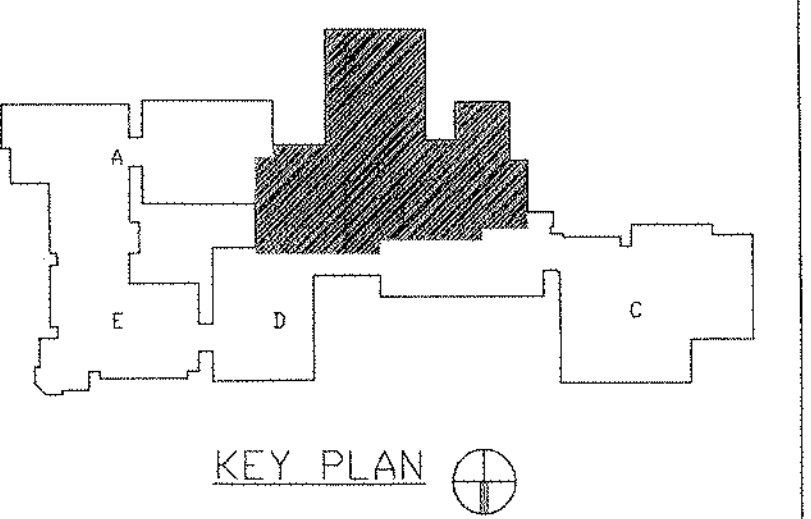
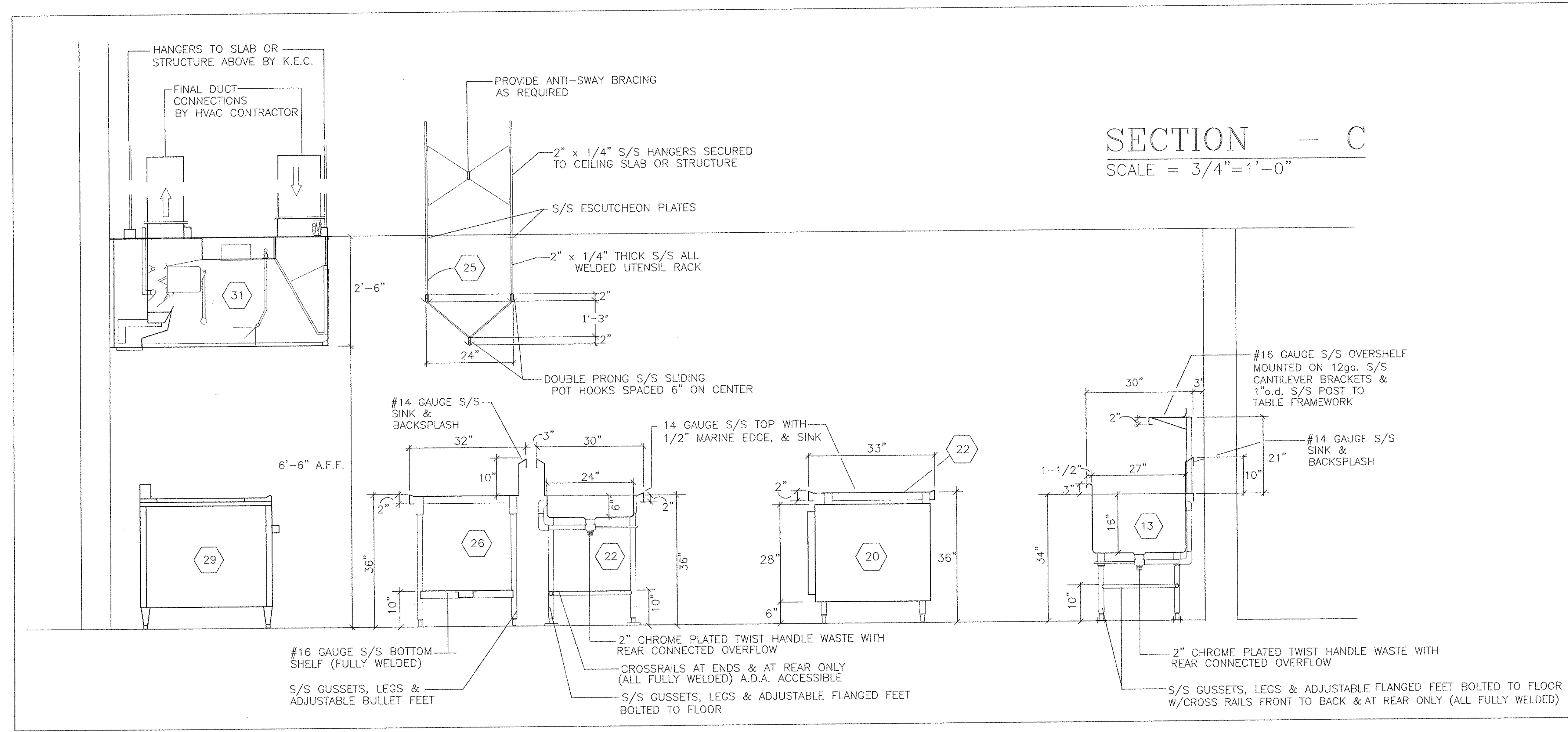
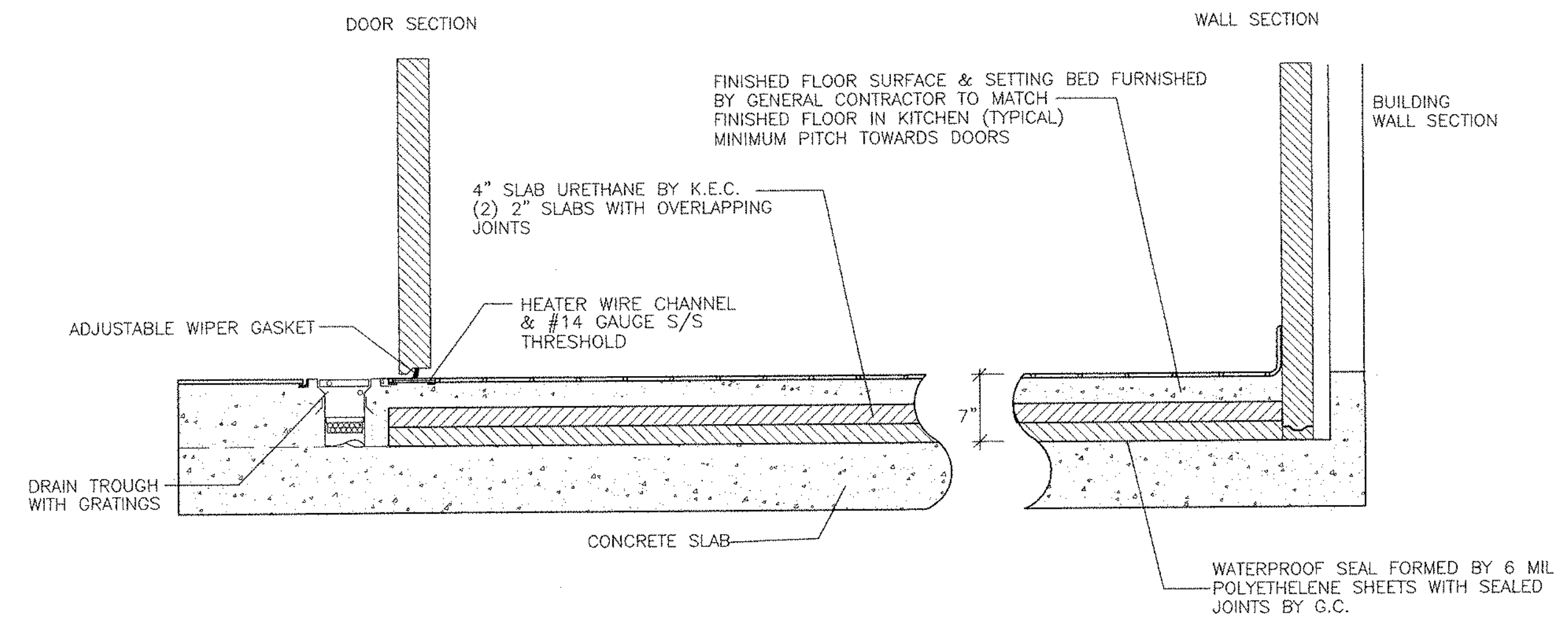
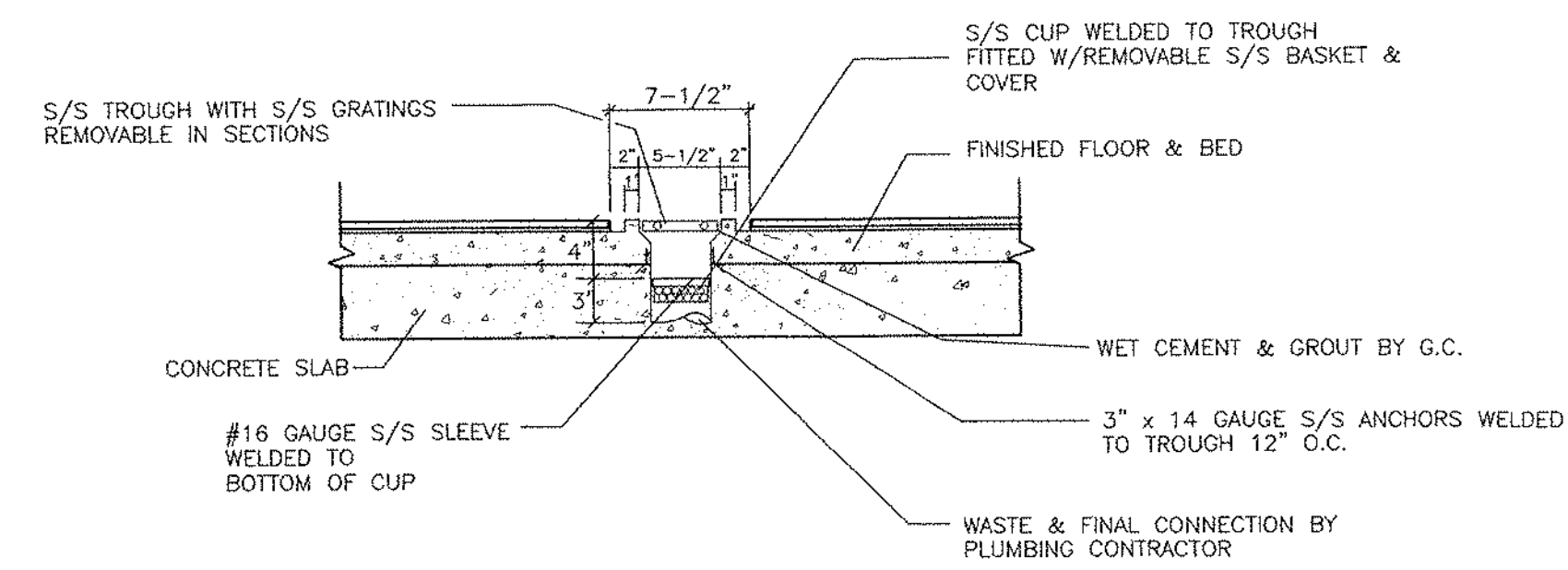
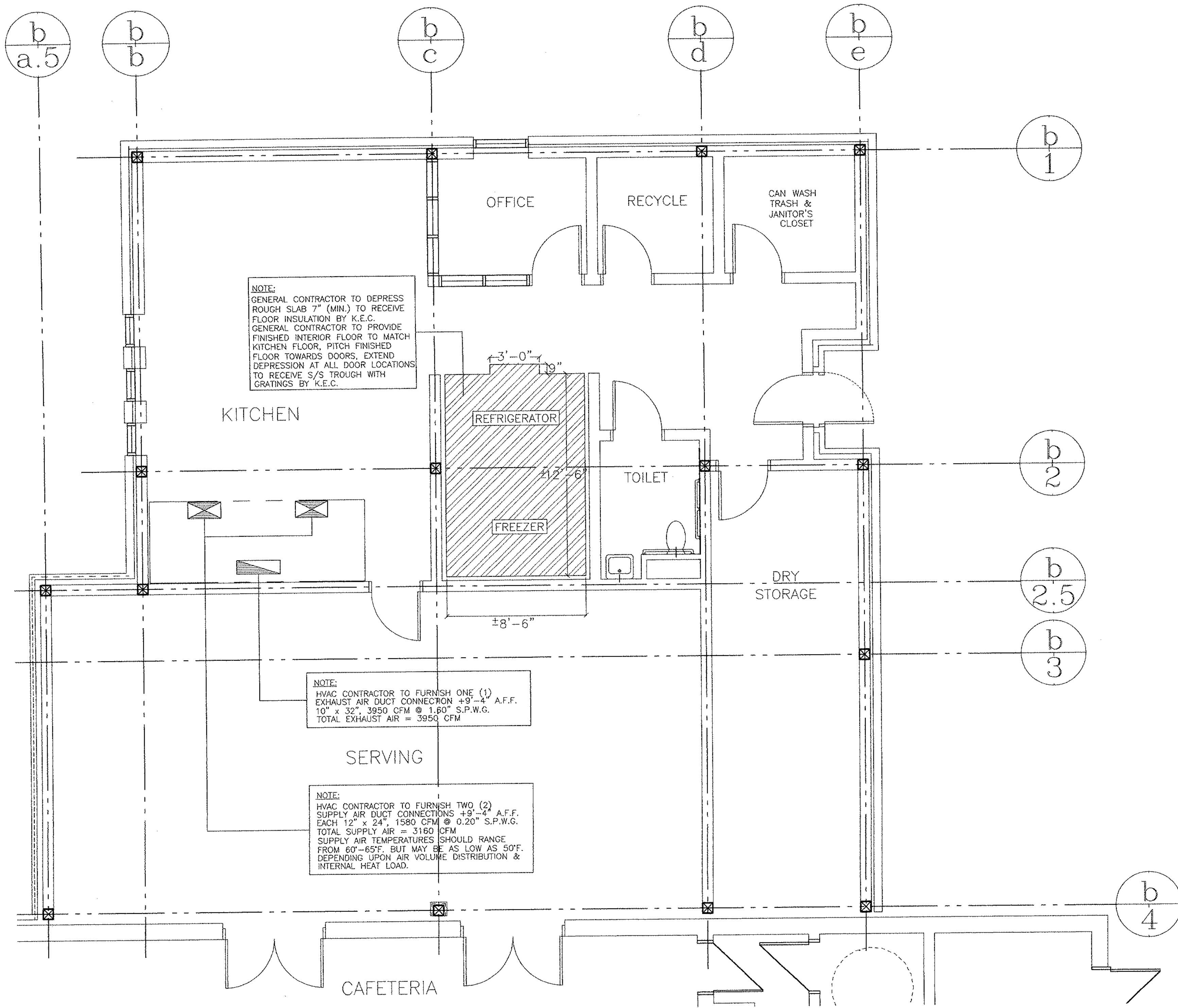
KITCHEN EQUIPMENT CONTRACTOR NOTE

1. The manufacturer of the Ventilator, Item No. 31, and Remote Refrigeration Package, Item No. 10 shall provide a factory engineer on site during the installation of these items, a sales representative WILL NOT be acceptable.

CASH REGISTERS - ITEM No. 47

- ELECTRICAL CONTRACTOR**
1. Cash Registers, Item No. 47, are not in the Kitchen Equipment Contract.
 2. The Electrical Contractor shall furnish empty conduit and pull-boxes for future computer lines between register locations and office.


KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS
© Kaestle Boos Associates, Inc. 1999-2000-2001-2002-2003
 Drawn by: J.M.S. Scale: 1/4"=1'-0"
FOOD SERVICE EQUIPMENT ARRANGEMENT & SCHEDULE PLAN MAIN LEVEL AREA "B"
 Project no. 98078 Drawing no. FS-1
 Date MARCH 8, 1999



REVISIONS		
DATE	MARK	DESCRIPTION
January 4, 1999		drawings issued for state review

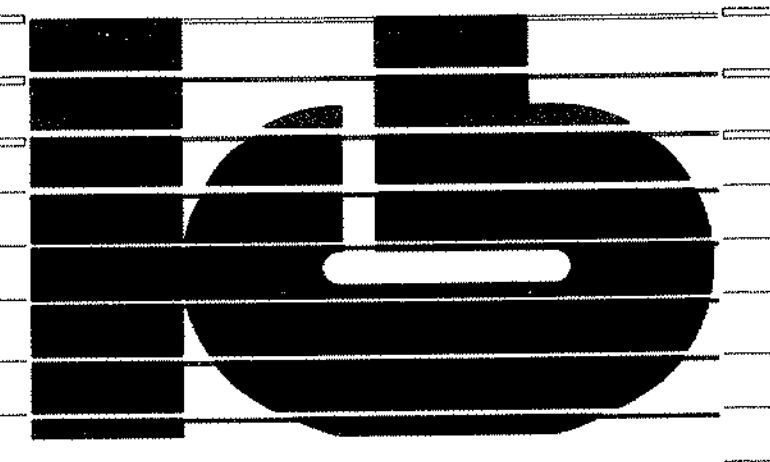
FOR ALL ABBREVIATIONS, SYMBOL LEGENDS, GENERAL NOTES AND WALL TYPES SEE SHEETS R0.01 & R0.02



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BROOKFIELD CONNECTICUT

WHISCONIER ROAD
BROOKFIELD, CT. 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

ZARALBAN & ASSOCIATES, INC.
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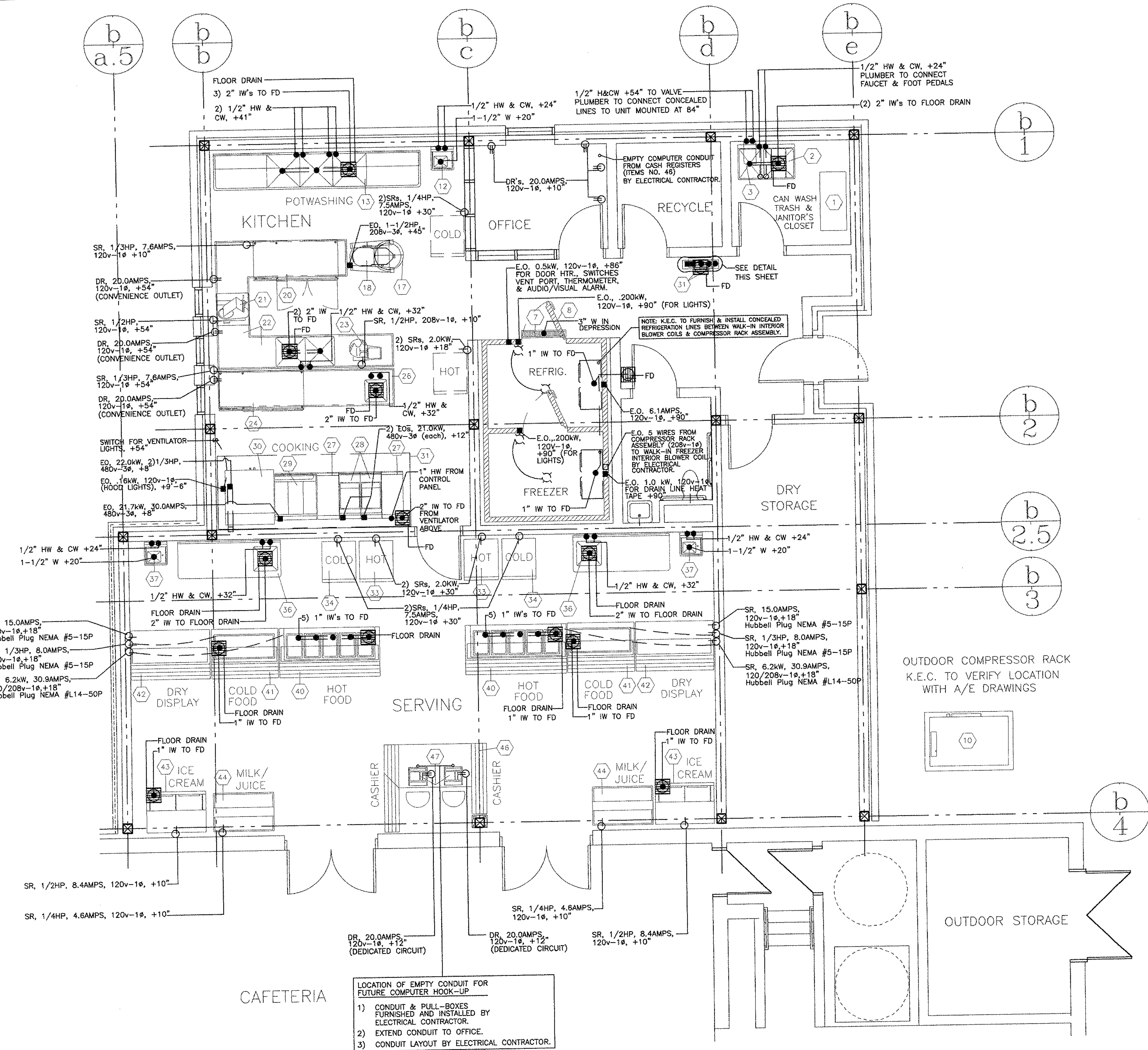
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

Drawn by: J.M.S. Scale: 1/4"=1'-0"

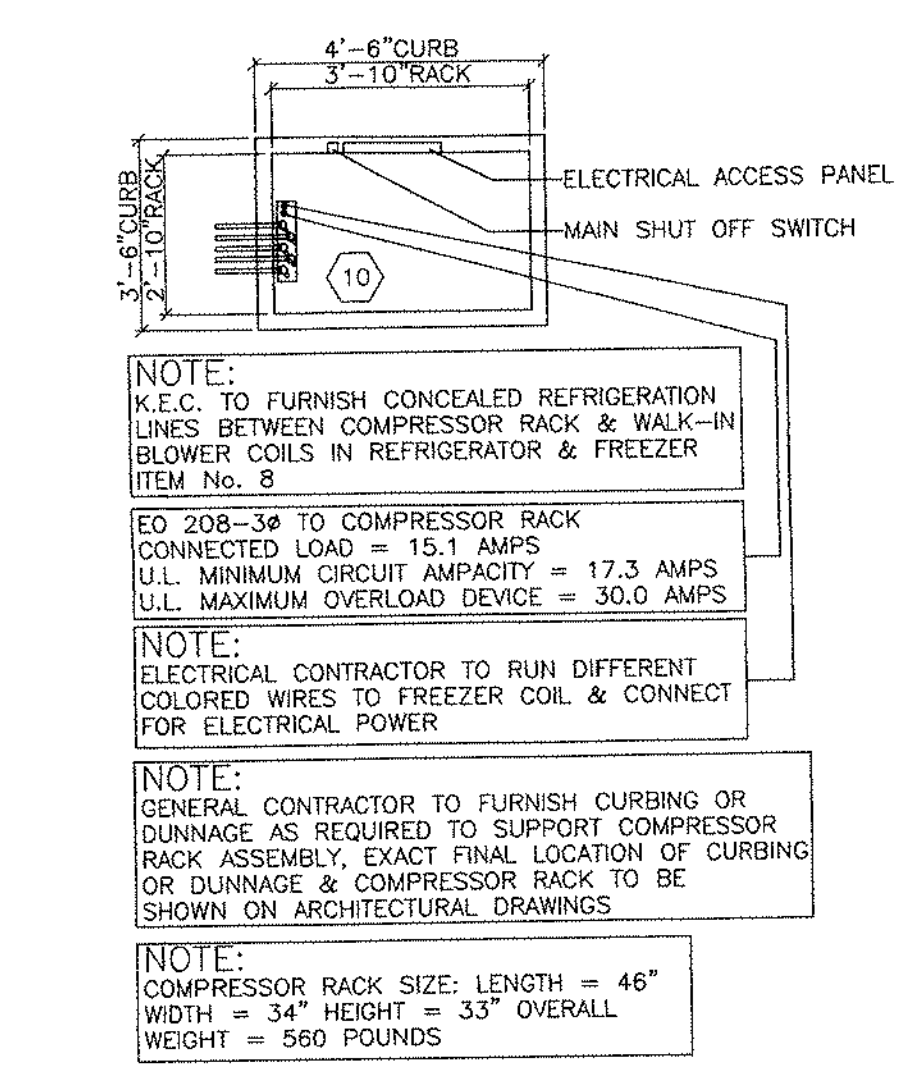
FOOD SERVICE EQUIPMENT CONCRETE/HVAC & DETAIL PLAN MAIN LEVEL AREA "B"

Project no. 98078 Drawing no. **FS-2**

Date MARCH 8, 1999



OUTDOOR COMPRESSOR RACK



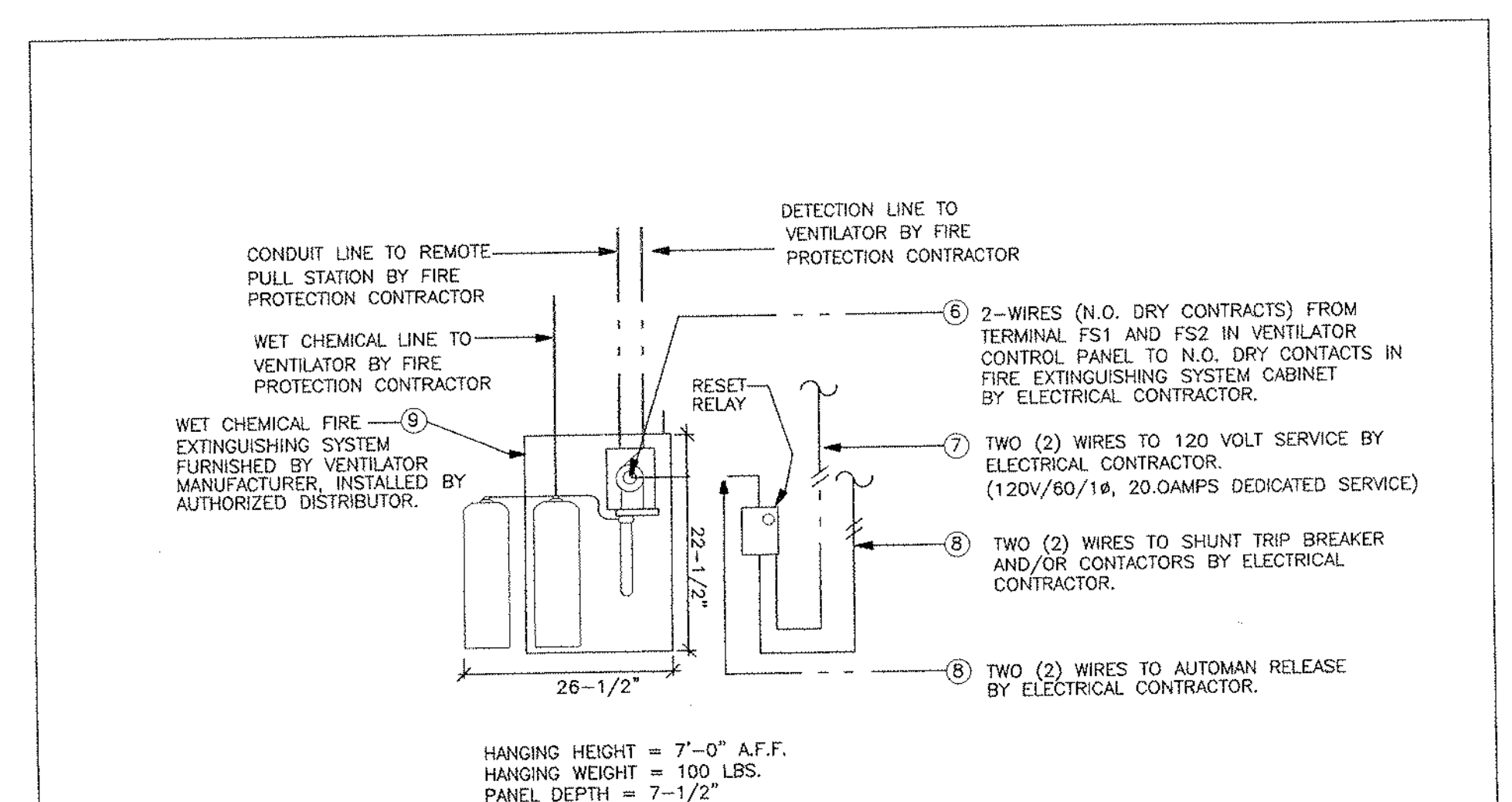
NOTE: K.E.C. TO FURNISH CONCEALED REFRIGERATION LINES BETWEEN COMPRESSOR RACK & WALK-IN REFRIGERATOR & FREEZER. BLOWER COILS IN REFRIGERATOR & FREEZER ITEM NO. 8

EO 200-38 TO COMPRESSOR RACK (CONNECTED LOAD = 15.1 AMPS U.L. MINIMUM CIRCUIT AMPACITY = 17.3 AMPS U.L. MAXIMUM OVERLOAD DEVICE = 30.0 AMPS)

NOTE: ELECTRICAL CONTRACTOR TO RUN DIFFERENT COLORED WIRES TO FREEZER COIL & CONNECT FOR ELECTRICAL POWER.

NOTE: GENERAL CONTRACTOR TO FURNISH CURBING OR DUNNAGE AS REQUIRED TO SUPPORT COMPRESSOR RACK ASSEMBLY. EXACT FINAL LOCATION OF CURBING OR DUNNAGE & COMPRESSOR RACK TO BE SHOWN ON ARCHITECTURAL DRAWINGS.

NOTE: COMPRESSOR RACK SIZE: LENGTH = 46" WIDTH = 34" HEIGHT = 33" OVERALL WEIGHT = 560 POUNDS



CONDUIT LINE TO REMOTE PULL STATION BY FIRE PROTECTION CONTRACTOR

WET CHEMICAL LINE TO VENTILATOR BY FIRE PROTECTION CONTRACTOR

WET CHEMICAL FIRE EXTINGUISHING SYSTEM FURNISHED BY VENTILATOR MANUFACTURER. INSTALLED BY AUTHORIZED DISTRIBUTOR.

DETECTION LINE TO VENTILATOR BY FIRE PROTECTION CONTRACTOR

⑥ 2-WIRES (N.O. DRY CONTACTS) FROM TERMINAL FS1 AND FS2 IN VENTILATOR CONTROL PANEL TO N.O. DRY CONTACTS IN FIRE EXTINGUISHING SYSTEM CABINET BY ELECTRICAL CONTRACTOR.

⑦ TWO (2) WIRES TO 120 VOLT SERVICE BY ELECTRICAL CONTRACTOR. (120V/60/15, 20.0AMPS DEDICATED SERVICE)

⑧ TWO (2) WIRES TO SHUNT TRIP BREAKER AND/OR CONTACTORS BY ELECTRICAL CONTRACTOR.

⑨ TWO (2) WIRES TO AUTOMAN RELEASE BY ELECTRICAL CONTRACTOR.

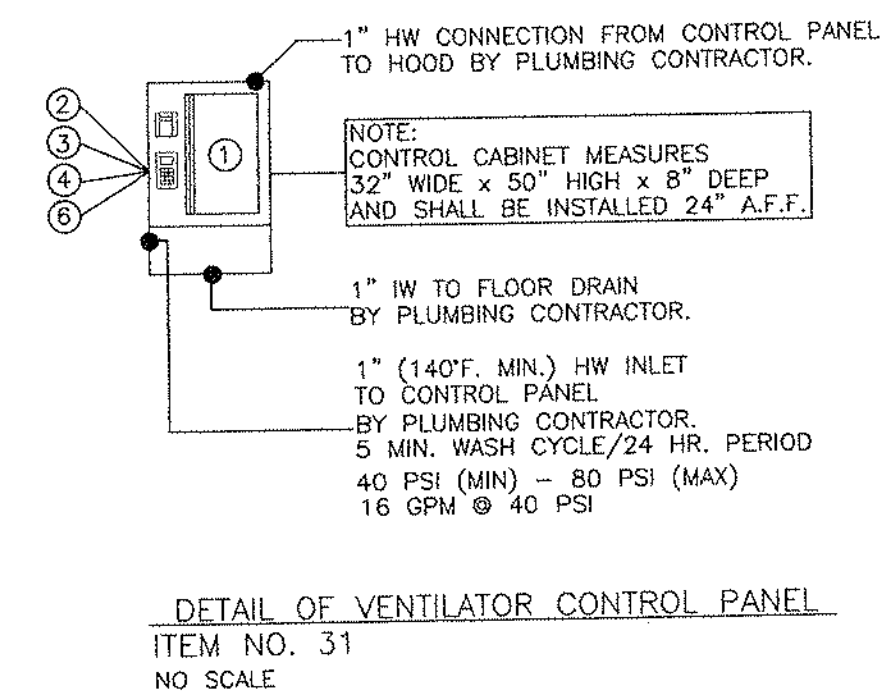
HANGING HEIGHT = 7'-0" A.F.F.
HANGING WEIGHT = 100 LBS.
PANEL DEPTH = 7'-1/2"

NOTE: REFER TO SPECIFIC ITEM NO. WIRING NOTES.

REMOTE PULL LOCATIONS TO BE COORDINATED BY FIRE PROTECTION CONTRACTOR AND LOCAL FIRE AUTHORITIES.

DETAIL OF FIRE SUPPRESSION SYSTEM

ITEM NO. 31
NO SCALE



DETAIL OF VENTILATOR CONTROL PANEL
ITEM NO. 31
NO SCALE

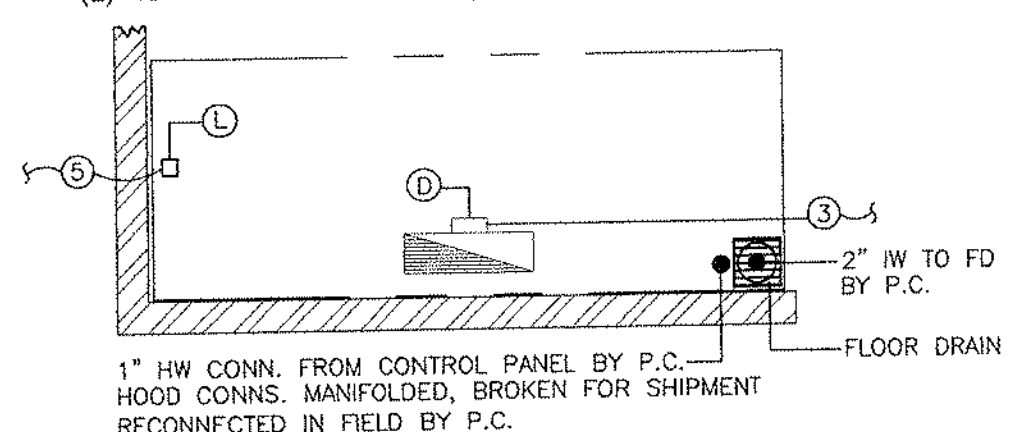
WIRING NOTES FOR ITEM NO. 31:

- VENTILATOR CONTROL CABINET FURNISHED BY VENTILATOR MANUFACTURER. FIELD WIRED BY ELECTRICAL CONTRACTOR.
- 120V/1/20 AMP SERVICES (2-WIRES) TO VENTILATOR CONTROL PANEL BY ELECTRICAL CONTRACTOR.
- 4-WIRES FROM VENTILATOR CONTROL PANEL TO EXHAUST FAN MAGNETIC STARTER BY ELECTRICAL CONTRACTOR. EXHAUST FAN TO BE FURNISHED WITH 120V/1/60 STARTER COIL.
- 2-WIRES FROM VENTILATOR CONTROL PANEL TO EXHAUST FAN MAGNETIC STARTER BY ELECTRICAL CONTRACTOR. EXHAUST FAN TO BE FURNISHED WITH 120V/1/60 STARTER COIL.
- 2-WIRES FROM FINAL LIGHTS J-BOX (L) TO LIGHT SWITCH BY ELECTRICAL CONTRACTOR. LIGHT SWITCH FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- 2-WIRES (N.O. DRY CONTACTS) FROM TERMINAL FS1 AND FS2 IN VENTILATOR CONTROL PANEL TO N.O. DRY CONTACTS IN FIRE EXTINGUISHING SYSTEM CABINET BY ELECTRICAL CONTRACTOR.
- 120V/1/60 20 AMP SERVICE (2-WIRES) TO FIRE EXTINGUISHING SYSTEM CABINET BY ELECTRICAL CONTRACTOR.
- 2-WIRES FROM FIRE EXTINGUISHING SYSTEM CABINET TO SHUNT TRIP CIRCUIT BREAKER AND/OR CONTACTORS BY ELECTRICAL CONTRACTOR.
- WET CHEMICAL FIRE EXTINGUISHING SYSTEM CABINET FURNISHED BY VENTILATOR MANUFACTURER. INSTALLED BY AUTHORIZED DISTRIBUTOR.
- REFER TO DETAIL OF FIRE SUPPRESSION SYSTEM, THIS SHEET.

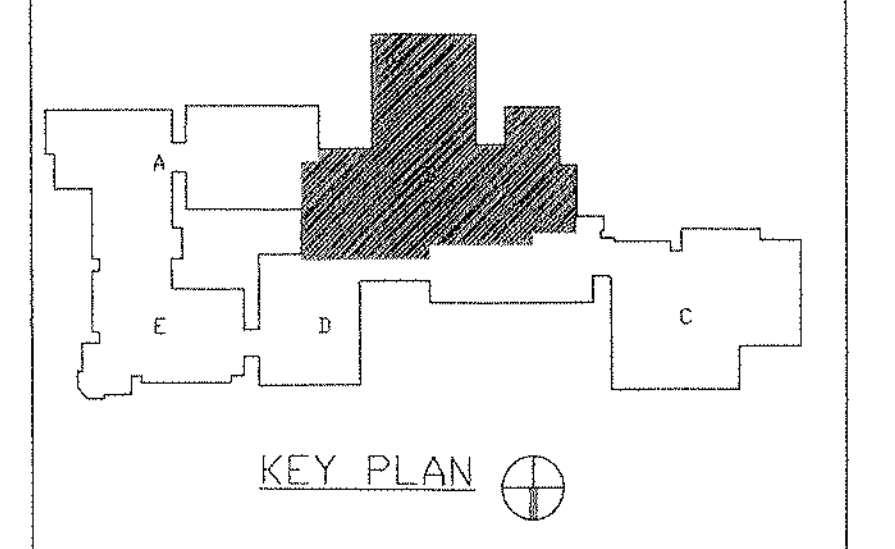
LOCATION OF EMPTY CONDUIT FOR FUTURE COMPUTER HOOD-UP

- CONDUIT & PULL-BOXES FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
- EXTEND CONDUIT TO OFFICE.
- CONDUIT LAYOUT BY ELECTRICAL CONTRACTOR.

(7) HANGER BRACKETS REQUIRED - HANGER WEIGHT = 1,300 LBS.
(2) 48" FLUORESCENT LIGHTS (16 KW TOTAL, 120V-18-60)



**DETAILED ROUGH-IN FOR:
ITEM No. 31 - ONE (1) VENTILATOR W/WASH/FIRE SYSTEMS**



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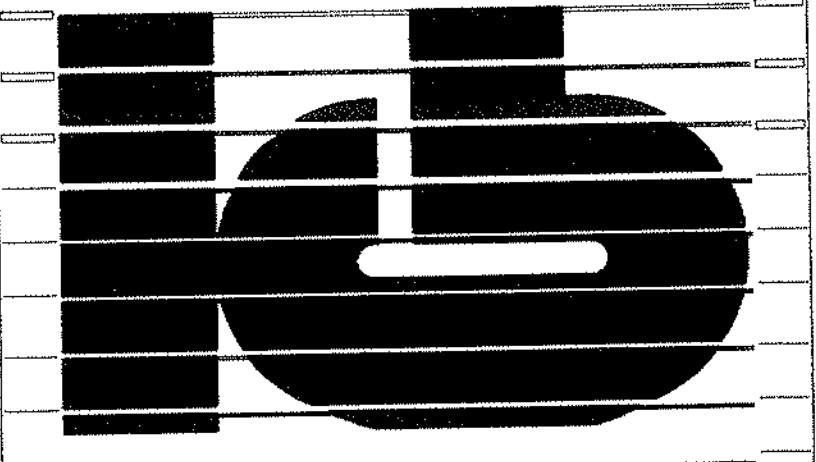


ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT

WHISCONIER ROAD
BROOKFIELD, CT. 06084
STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

ZARALBAN & ASSOCIATES, INC.

FOOD FACILITIES PLANNERS & CONSULTANTS
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KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

116 State St., New Britain, Connecticut 06050-2650 860.229.0081
Drawn by: J.M.S. Scale: 1/4"=1'-0"

FOOD SERVICE EQUIPMENT ROUGH-IN PLAN MAIN LEVEL AREA "B"

Project no. 96078 Drawing no. FS-3

Date MARCH 8, 1999

FAN SCHEDULE														
FAN NO.	FAN TYPE	CAPACITY (CFM)	EXH. HP (IN. WG.)	DRIVE	MAX. MOTOR (HP)	MOTOR (HP)	VOLTS / PHASE / HERTZ	MANUF.	MODEL NO.	ACCESSORIES	OPERAT. WEIGHT (LB.)	MAX. RPM	INTER-LOCK WITH	REMARKS
EF-1	ROOF	1200	0.75	BELT	10	1/4	120/1/60	LOREN COOK	159C4B	---	100	1295	DDC	---
EF-2	ROOF	2100	0.9	BELT	10	1/4	120/1/60	LOREN COOK	159C4B	---	100	1295	DDC	---
EF-3	ROOF	1500	0.75	DIRECT	9.4	1/6	120/1/60	LOREN COOK	100C59	---	100	1369	DDC	---
EF-4	ROOF	3750	0.5	DIRECT	9.9	1/8	120/1/60	LOREN COOK	800C59	SPEED CONTROLLER	100	1375	DDC	---
EF-5	CEILING	500	0.5	DIRECT	9.6	(172)	120/1/60	LOREN COOK	GC-740	SPEED CONTROLLER	90	1440	DDC	CONSTANTLY RUNNING
EF-6	ROOF	2450	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-7	ROOF	1460	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-8	CEILING	165	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-9	ROOF	2750	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-10	ROOF	1460	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-11	ROOF	200	0.5	DIRECT	7.6	1/8	120/1/60	LOREN COOK	90015PM	SPEED CONTROLLER	100	1491	DDC	---
EF-12	ROOF	450	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-13	ROOF	300	0.75	DIRECT	8.1	1/8	120/1/60	LOREN COOK	100C59PM	SPEED CONTROLLER	100	1494	DDC	EF-19
EF-14	ROOF	450	0.625	BELT	10.1	1/6	120/1/60	LOREN COOK	100C59	---	100	1569	DDC	---
EF-15	ROOF	2900	1.0	BELT	19.1	2	480/3/60	LOREN COOK	249VH9B	---	300	1117	DDC	LL762 LABELED
EF-16	ROOF	1100	0.5	DIRECT	17.1	1/6	120/1/60	LOREN COOK	190C69	SPEED CONTROLLER	100	1429	DDC	---
EF-17	ROOF	250	0.5	DIRECT	5.7	1/25	120/1/60	LOREN COOK	90015PM	SPEED CONTROLLER	100	139	DDC	---
EF-18	IN-LINE	450	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-19	ROOF	829	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-20	ROOF	829	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-21	ROOF	2000	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-22	ROOF	2000	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-23	ROOF	2000	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-24	ROOF	2000	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-25	ROOF	240	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-26	ROOF	300	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-27	ROOF	250	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-28	ROOF	1400	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-29	ROOF	2450	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-30	IN-LINE	400	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-31	CEILING	100	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-32	CEILING	300	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-33	ROOF	990	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-34	CEILING	300	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-35	ROOF	5580	---	---	---	---	---	---	---	SPEED CONTROLLER	---	---	DDC, LIGHT	---
EF-36	IN-LINE	100	0.25	---	---	---	---	---	---	SPEED CONTROLLER	---	---	DDC	---
EF-37	CEILING	100	0.25	---	---	---	---	---	---	SPEED CONTROLLER	---	---	DDC	---
EF-38	CEILING	150	0.25	---	---	---	---	---	---	SPEED CONTROLLER	---	---	DDC	---
EF-39	CEILING	225	0.25	---	---	---	---	---	---	SPEED CONTROLLER	---	---	DDC	---
EF-40	IN-LINE	840	0.5	DIRECT	8.0	(398)	120/1/60	LOREN COOK	100C59	SPEED CONTROLLER	100	1595	DDC	---
EF-41	IN-LINE	840	0.5	DIRECT	8.0	(398)	120/1/60	LOREN COOK	100C59	SPEED CONTROLLER	100	1595	DDC	---
EF-42	IN-LINE	1500	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-43	IN-LINE	940	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN
EF-44	IN-LINE	940	---	---	---	---	---	---	---	---	---	---	DDC	EXISTING TO REMAIN

NOTES:

- ALL FANS SHALL BE COMPLETE WITH INTEGRAL GRAVITY BACKDRAFT DAMPERS AND THERMAL OVERLOAD PROTECTION.
- PROVIDE FLEXIBLE CONNECTIONS ON DUCT INLETS AND OUTLETS TO ALL PANS.
- FOR IN-LINE FANS PROVIDE BELT DRIVE WITH V-BELTS AND V-BELT GUARDS. CONTRACTOR TO COORDINATE ALL INTERLOCKS AND PROVIDE CONNECTIONS AS REQUIRED COMPLETE WITH ALL ACCESSORIES.
- UNLESS NOTED OTHERWISE, MOUNT SPEED CONTROL SWITCH NEXT TO UNIT FOR BALANCING PURPOSES.
- CEILING FANS SHALL BE PROVIDED WITH FINISH GRILLES IN ACCORDANCE WITH ARCHITECT'S SCHEDULE.
- ROOF FANS SHALL BE PROVIDED WITH LEVEL TOP ON (12" MINIMUM HEIGHT) PROVIDE GRAVITY BACKDRAFT DAMPERS. PROVIDE ROOF CURBS WITH ASSOCIATED ROOFING WORK AS REQUIRED.
- PROVIDE FLOOR LIGHT SWITCH FOR ALL PANS INCLUDING ELECTRICAL TO WIRE ACCORDINGLY.
- TRANSITION DUCTWORK ON INLET AND OUTLET OF EACH FAN TO MATCH SIZES SHOWN ON PLANS.
- ROOF MOUNTED PANS BASED ON LOREN COOK ACE SERIES.
- EF-16 TO BE OPERATED ON SEPARATE CIRCUIT. FAN TO ENERGIZE VAV AND RTU-4 AND DEENERGIZE EF-15.
- MAXIMUM SIZES AND RPM SHALL NOT BE EXCEEDED.
- MAXIMUM SIZES AND RPM SHALL NOT BE EXCEEDED.
- INTERLOCK DESIGNATION OF DDC DEVICES SHALL BE CONTROLLED BY THE AUTOMATIC TEMPERATURE SYSTEM. CONTRACTOR TO PROVIDE ALL NECESSARY INTERFACES TO DDC.
- STATUS AND OPERATING OF ALL FANS TO BE VIA DDC SYSTEM. CONTRACTOR TO COORDINATE.
- REBALANCE, ADJUST AS REQUIRED ALL EXISTING PANS TO ACHIEVE REQUIRED LEVELS, INCLUDING REPLACING BELTS AND SHIVES.

HEATING, VENTILATION, AIR CONDITIONING UNIT SCHEDULE

UNIT NO.	TYPE	MODEL NO.	CFM TOTAL	MIN. COOLING (TONS)	MAX. COOLING (TONS)	FAN (HP)	VOLTS / PHASE / HERTZ	HEATING COIL	COOLING COIL	APPROXIMATE WEIGHT (LBS.)	ACCESSORIES	REMARKS
UV-1	FLOOR	VM-129	1250	400	---	1/4	120/1/60	INTEGRAL HW COIL	INTEGRAL HW COIL	75	800	FILTER
UV-2	FLOOR	VM-079	750	275	---	1/4	120/1/60	INTEGRAL HW COIL	INTEGRAL HW COIL	75	800	FILTER
UV-3	FLOOR	VM-129	1250	400	---	1/4	120/1/60	INTEGRAL HW COIL	INTEGRAL HW COIL	75	800	FILTER
RTU-1	ROOF	---	1,200	300	---	---	---	HW, FAN	HW, FAN	75	---	HEATING COIL
RTU-2	ROOF	SLF-20	8750	3,000	3.8	15	480/3/60	HW	HW	300	9000	FILTERS, O.A. ROOM, SERVICING ROOF CURB, 20 TONS COOLING
RTU-3	ROOF	SLF-20	8090	3,000	3.8	15	480/3/60	HW	HW	300	9000	FILTERS, O.A. ROOM, SERVICING ROOF CURB, 20 TONS COOLING
RTU-4	ROOF	TCAB	4950	500	1.5	5/2	480/3/60	HW	HW	200	2000	FILTERS, O.A. ROOM, SERVICING ROOF CURB REMOVE HW COIL
RTU-5	ROOF	VMF-40	20,000	6,000	3.0	15	480/3/60	HW	HW	350	9000	FILTERS, O.A. ROOM, SERVICING ROOF CURB
RTU-6	ROOF	TCAB	1,250	450	1.5	15	480/3/60	HW	HW	50	1500	FILTERS, O.A. ROOM, SERVICING ROOF CURB, 3 TONS COOLING
RTU-7	ROOF	VMF-40	12,000	4,500	3.0	15	480/3/60	HW	HW	350	9000	FILTERS, O.A. ROOM, SERVICING ROOF CURB
RTU-8	ROOF	TCAB	2,700	800	1.5	5/2	480/3/60	HW	HW	75	2600	FILTERS, O.A. ROOM, SERVICING ROOF CURB, 7.5 TONS COOLING
RTU-9	ROOF	---	3,000	---	---	---	---	---	---	---	---	---
AH-1	FLOOR	MCCO008	3,000	300	1.5	3	480/3/60	HEATING COIL	HEATING COIL	250	1200	HEATING COIL, EXIST. UNIT TO REMAIN, ADD DUCT HW, COIL
AH-2	FLOOR	---	---	---	---	---	---	HW, DUCT	---	---	---	---
AH-3	FLOOR	---	---	---	---	---	---	---	---	---	---	---
AH-4	FLOOR	---	---	---	---	---	---	---	---	---	---	---
CU-1	ROOF	TA20A	---	---	---	---	208/1/60	---	---	800	---	SERVING UNIT-1
CU-2	ROOF	HP20A	---	---	---	---	208/1/60	---	---	800	---	SERVING UNIT-2
CU-3	ROOF	TA20A	---	---	---	---	480/3/60	---	---	---	---	10 RON DX COIL TO AH-5
CU-4	ROOF	TA20A	---	---	---	---	480/3/60	---	---	---	---	10 RON DX COIL TO AH-1

NOTES:

- ALL UNITS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ALL UNITS SHALL HAVE FLEXIBLE CANVAS CONNECTIONS ON DUCT INLETS AND OUTLETS.
- MOUNT ALL INDOOR UNITS ON SPRING BOLTS ON ALL FOUR CORNERS.
- THIS CONTRACTOR SHALL PROVIDE ALL NECESSARY INTERFACING BETWEEN INDIVIDUAL UNITS AND AUTOMATIC TEMPERATURE CONTROL SYSTEM.
- TRANSITION DUCTWORK ON INLET AND OUTLET OF EACH UNIT TO MATCH SIZES ON PLANS.
- ROOF MOUNTED EQUIPMENT SHALL BE INSTALLED ON MATCHING SEISMIC ISOLATION ROOF CURBS, 12" MINIMUM HEIGHT, MANUFACTURE TO FIT CURBS TO ROOF.
- PROVIDE FLOOR LIGHT SWITCH FOR ALL PANS INCLUDING ELECTRICAL TO WIRE ACCORDINGLY.
- TYPE AS REQUIRED ALL REFRIGERANT SECTION AND LIQUID COVERED UNITS BY MANUFACTURER, FROM CONDENSING UNITS TO RESPECTIVE COOLING COILS.
- PROVIDE ALL MOTORS AS HIGH EFFICIENCY.
- PROVIDE ALL MOTORS AS HIGH EFFICIENCY.
- HW COILS BASED UPON ISO 484 EWT, 20 DEG RISE.
- PROVIDE THE FOLLOWING UNITS WITH ACCESSORIES:
RTU-2, RTU-3: COOLING, HEATING COIL, ANGLE FILTER, ECONOMIZER, EXHAUST FAN
RTU-4, RTU-6, RTU-8: HEATING COIL, ECONOMIZER, ANGLE FILTER, COILING, ECONOMIZER
RTU-9: HEATING COIL, ANGLE FILTER, EXHAUST FAN
PROVIDE EXHAUST FANS FOR THE FOLLOWING: RTU-2, RTU-3, RTU-5, RTU-7
12. ALL ROOF CURBS TO BE SEISMIC. SEISMIC CURBS ARE TO FIT WITH SLOPE OF ROOF. MANUFACTURER TO ACCOMMODATE.
13. PROVIDE RESPECTIVE UNITS COMPLETE WITH ASSOCIATED VAV DAMPERS SIZED PER THE UNIT MANUFACTURER, BASED ON STANDARD VAV SERIES AND SIZED FOR FULL FLOW AT 0.25" STATIC PRESSURE LOSS.
14. PROVIDE COMPLETE WITH SECONDARY DUCT MOUNTED HEATING COILS.
15. PROVIDE UNIT VENTILATORS COMPLETE WITH ALL ACCESSORIES INCLUDING ASHRAE CYCLE II, DDC CONTROLS, THREE WAY VALVES (WITH BYPASS BALANCING VALVES), FACTORY INSTALLED PIPING, EXTERIOR ARCHITECTURAL LOUVER GRILLES (NEW ADDITIONS). COMPLETE INSTALLATION TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS. CONTRACTOR TO COORDINATE PHYSICAL LOCATIONS OF EACH PER LOCATION, PRIOR TO ORDERING. SUBMIT PHYSICAL SIZING INFORMATION WITH SUBMITTAL. CONTRACTOR TO MODIFY ALL CASE WORK AS REQUIRED.
16. AS AND BL SIZES PER MANUFACTURER FOR SPECIFIC LENGTH OF TRAVEL.

ROOF INTAKE/RELIEF VENTILATOR SCHEDULE

UNIT NO.	INTAKE/RELIEF	CFM	MODEL NO.	THEAT DATA	CLIP DATA	REMARKS					
LENGTH (IN.)	WIDTH (IN.)	SO. FT.	HEIGHT (IN.)	ROOF OPENING (IN.)	OUTSIDE DIMENSIONS (IN.)						
RV-1	INTAKE	---	---	42	48	14	200	22	5-46X0	48X9-4	14 SQ. FT. FREE AREA MIN.

NOTES:

- MODEL NUMBERS LISTED ABOVE ARE BASED UPON LOREN COOK COMPANY.
- ROOF CURBS SHALL BE INSULATED LEVEL TOP TYPE, 12" MINIMUM HEIGHT AS SUPPLIED BY VENTILATOR MANUFACTURER.
- PROVIDE ALL ACCESSORIES INCLUDING GRAVITY BACKDRAFT DAMPERS.
- RV-1 TO HAVE MOTORIZED TIGHT CLOSING BACKDRAFT DAMPERS IN LIEU OF GRAVITY DAMPERS.

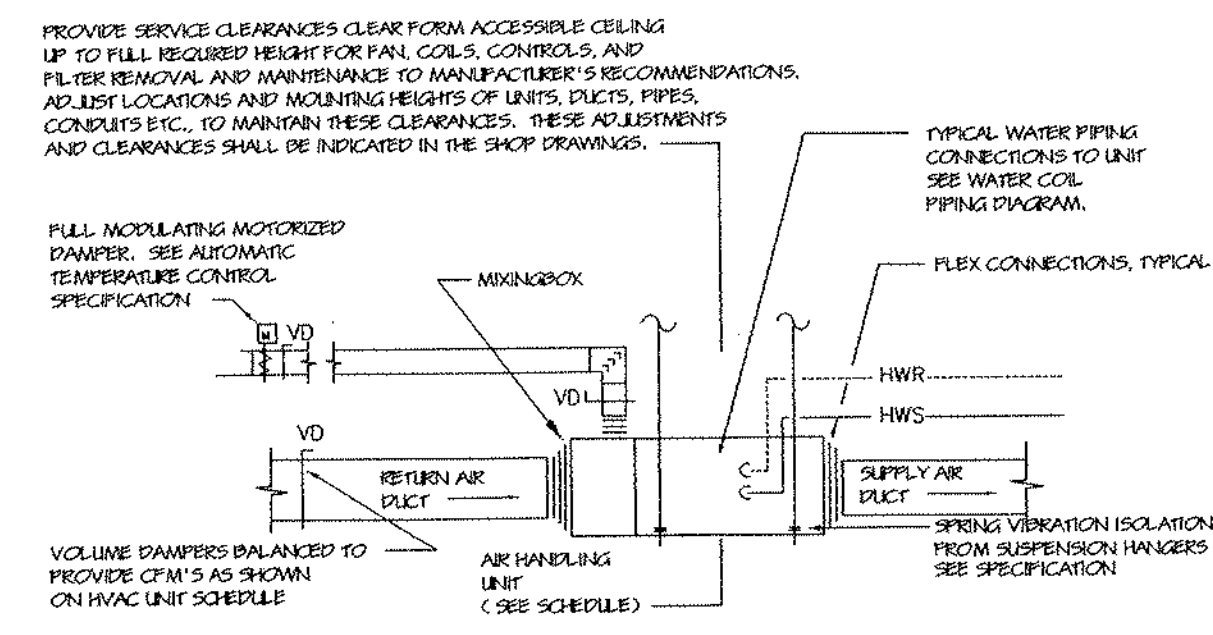
RADIATION SCHEDULE													
TYPE	MANUFACTURER	LINE	TYPE	ENCLOSURE HEIGHT	OUTPUT (BTU/HR-FT ²)	PIPING	ELEMENT	THICKNESS	FIN/FT	ROWS	REMARKS		
BR-1	STERLING	VERSALINE	JVP-5	24	2150	1"	CU	AL	4-1/4" X 4-1/4"	0.020	90	2	SPECIAL 14 GAUGE SLOPED ENCLOSURE WITH BOTTOM LOUVERS
BR-2	STERLING	VERSALINE	JVP-5	14	1270	1"	CU	AL	4-1/4" X 3-9/8"	0.020	90	1	SPECIAL 14 GAUGE SLOPED ENCLOSURE WITH BOTTOM LOUVERS
BR-3	STERLING	VERSALINE	B	21-3/8	2460	1"	CU	AL	4-1/4" X 4-1/4"	0.020	90	3	BARE ELEMENT IN ARCHITECTURAL ENCLOSURE

NOTES:

- OUTPUT RATINGS ARE BASED ON ISO 77 A.W.T. AND 1 G.P.M. WATER RATE.
- EQUIPMENT DESIGNATION ON FLOOR PLANS INDICATES TYPE AND LENGTH OF ELEMENT. E.G. BR-1 IS TYPE BR-1 RADIATION WITH 8'-0" ELEMENT LENGTH.
- FIELD MEASURE ALL RADIATION PRIOR TO MANUFACTURE.
- COLOR AND FINISH OF ENCLOSURE ARE SUBJECT TO ARCHITECT'S SELECTION. PROVIDE CUSTOM COLORS.
- PROVIDE SLIDE CRABLE TYPE ADJUSTABLE HANGERS, ROD TYPE HANGERS ARE NOT ACCEPTABLE. THIS SUPERSEDES ROD TYPE HANGERS SPECIFIED IN SECTION 195000.
- PROVIDE ALL UNITS WITH FULL BACK PLATE.
- FOR RADIATION BR-3 PROVIDE ENCLOSURE AS REQUIRED WITH COMPLETE END CAPS WHERE ELEMENT IS NOT CONCEALED BY CASEWORK.
- EXACT LOCATION OF THERMOSTATS AND SENSORS SHALL BE DETERMINED IN FIELD BY ARCHITECT.

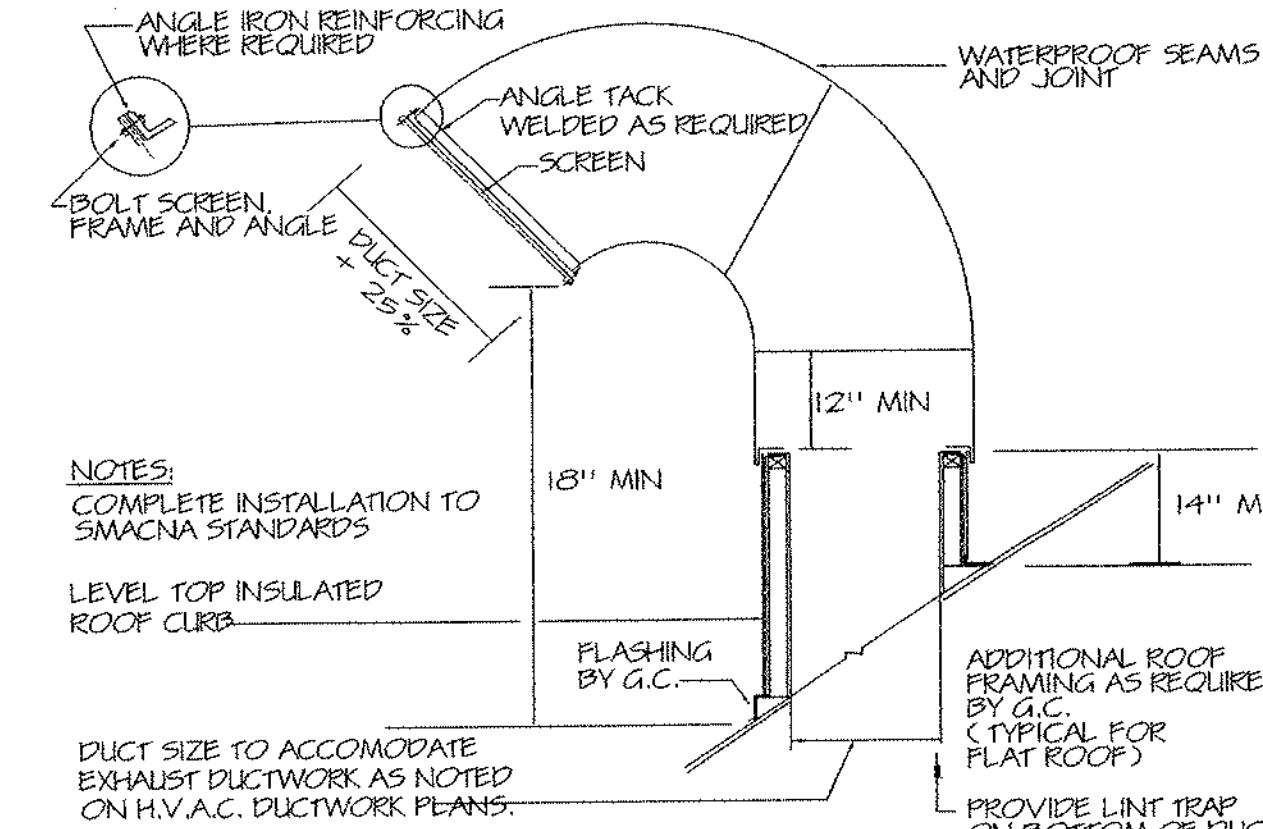
ZONE DAMPER SCHEDULE

UNIT	MODEL	MANUF.	CFM	REMARKS
VAV-1	VCCE	TRANE	900	---
VAV-2	VCCE	TRANE	180	---
VAV-3	VCCE	TRANE	75	---
VAV-4	VCCE	TRANE	75	---
VAV-5	VCCE	TRANE	75	---
VAV-6	VCCE	TRANE	25	---
VAV-7	VCCE	TRANE	25	---
VAV-8	VCCE	TRANE	240	---
VAV-9	VCCE	TRANE	75	---
VAV-10	VCCE	TRANE	940	---
VAV-11	VCCE	TRANE	200	---
VAV-12	VCCE	TRANE	240	---
VAV-13	VCCE	TRANE	480	---
VAV-14	VCCE	TRANE	240	---
VAV-15	VCCE	TRANE	10	RTU-2, BYPASS
VAV-16	VCCE	TRANE	270	---
VAV-17	VCCE	TRANE	200	---
VAV-18	VCCE	TRANE	200	---
VAV-19	VCCE	TRANE	200	---
VAV-20	VCCE	TRANE	270	---
VAV-21	VCCE	TRANE	120	---
VAV-22	VCCE	TRANE	120	---
VAV-23	VCCE	TRANE	120	---



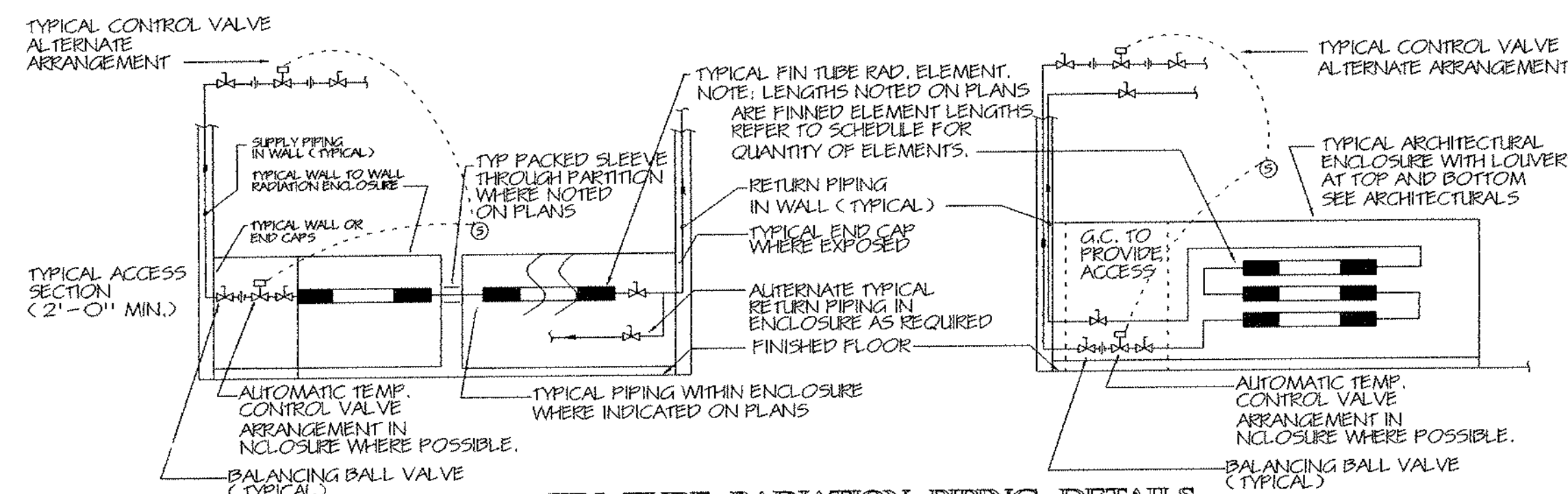
AIR HANDLING UNIT DETAIL

NO SCALE
 NOTES:
 1. SEE HVAC UNIT SCHEDULE
 2. SEE WATER COIL PIPING DIAGRAM.



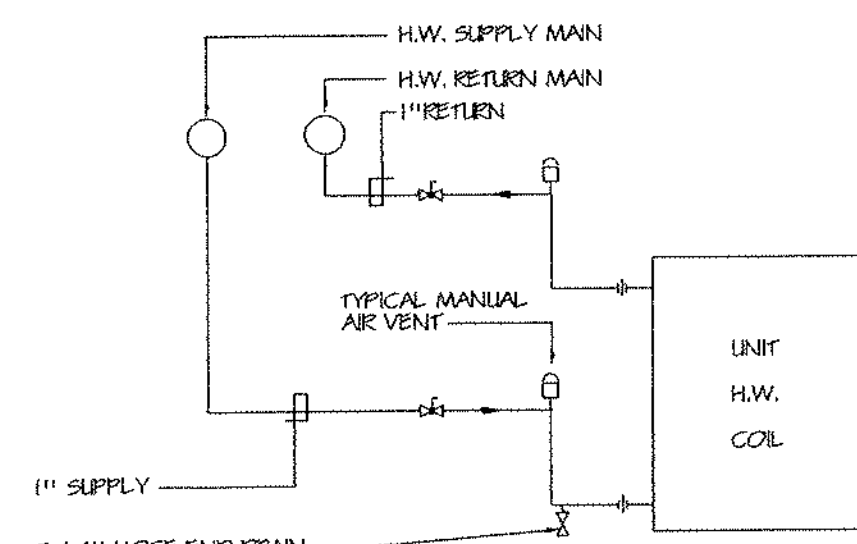
RECTANGULAR GOOSENECK DETAIL

NO SCALE



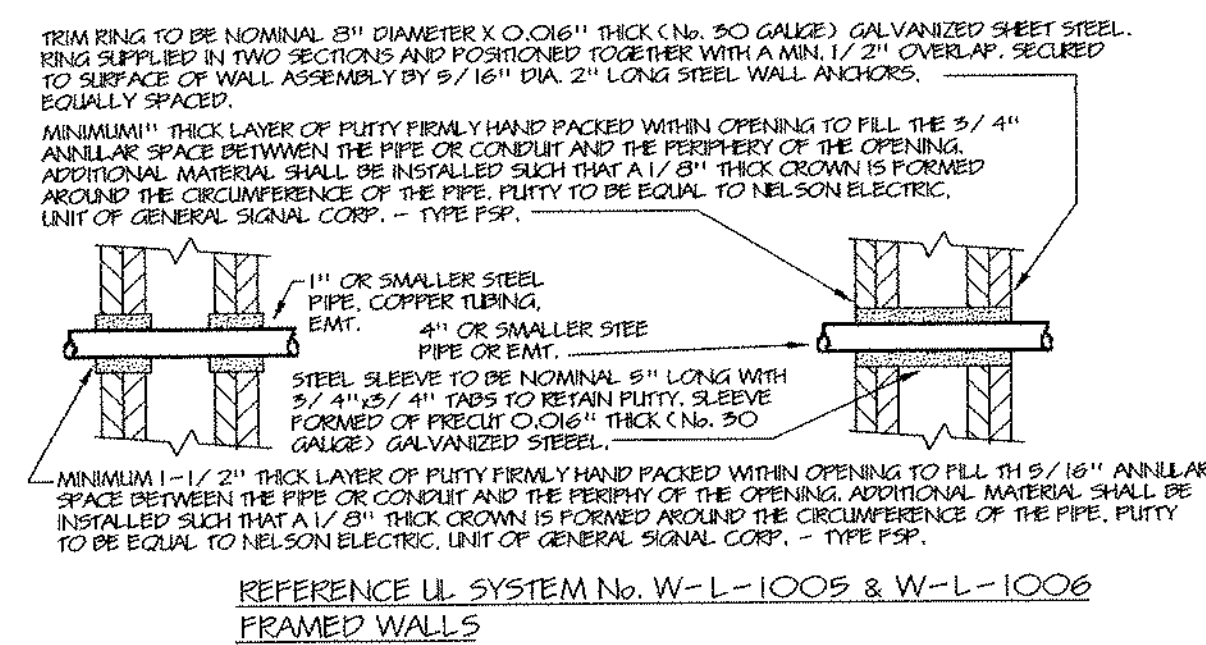
FIN TUBE RADIATION PIPING DETAILS

NO SCALE
 NOTES:
 1. ALL RADIATION SHALL BE FIELD MEASURED PRIOR TO MANUFACTURE.
 2. FINISH COLOR AS SELECTED BY ARCHITECT.
 3. LOCATE CONTROL VALVE ALTERNATE ARRANGEMENT IN FIRST FLOOR CEILING AS REQUIRED.
 4. PROVIDE AIR VENTS AT ALL HIGH POINTS AND CAPPED DRAINS AT ALL LOW POINTS.



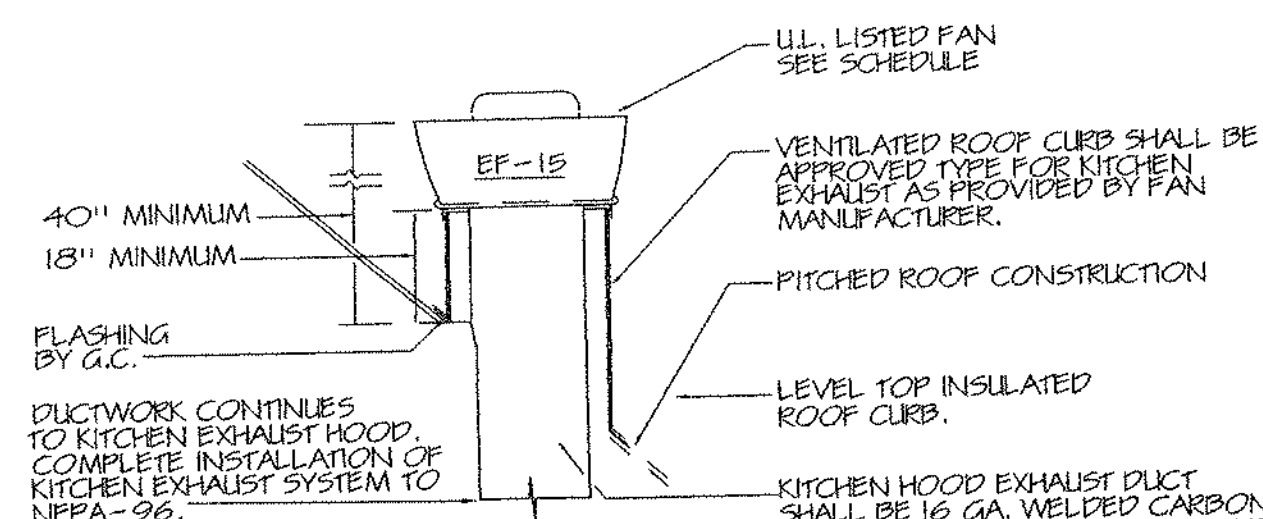
TYPICAL UNIT HEATER PIPING DETAIL

NO SCALE
 NOTES:
 1. PROVIDE WALL MOUNTED THERMOSTAT CONTROL OF UNIT SUBJECT TO LOW LIMIT STRAP-ON AGUASTAT.



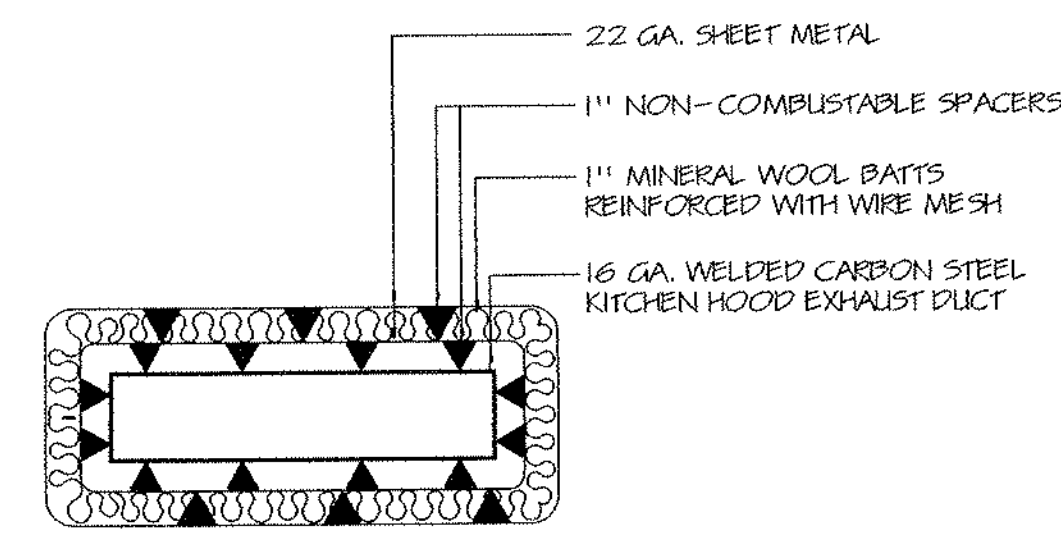
PIPE PENETRATIONS - FIRE STOP DETAILS

NO SCALE



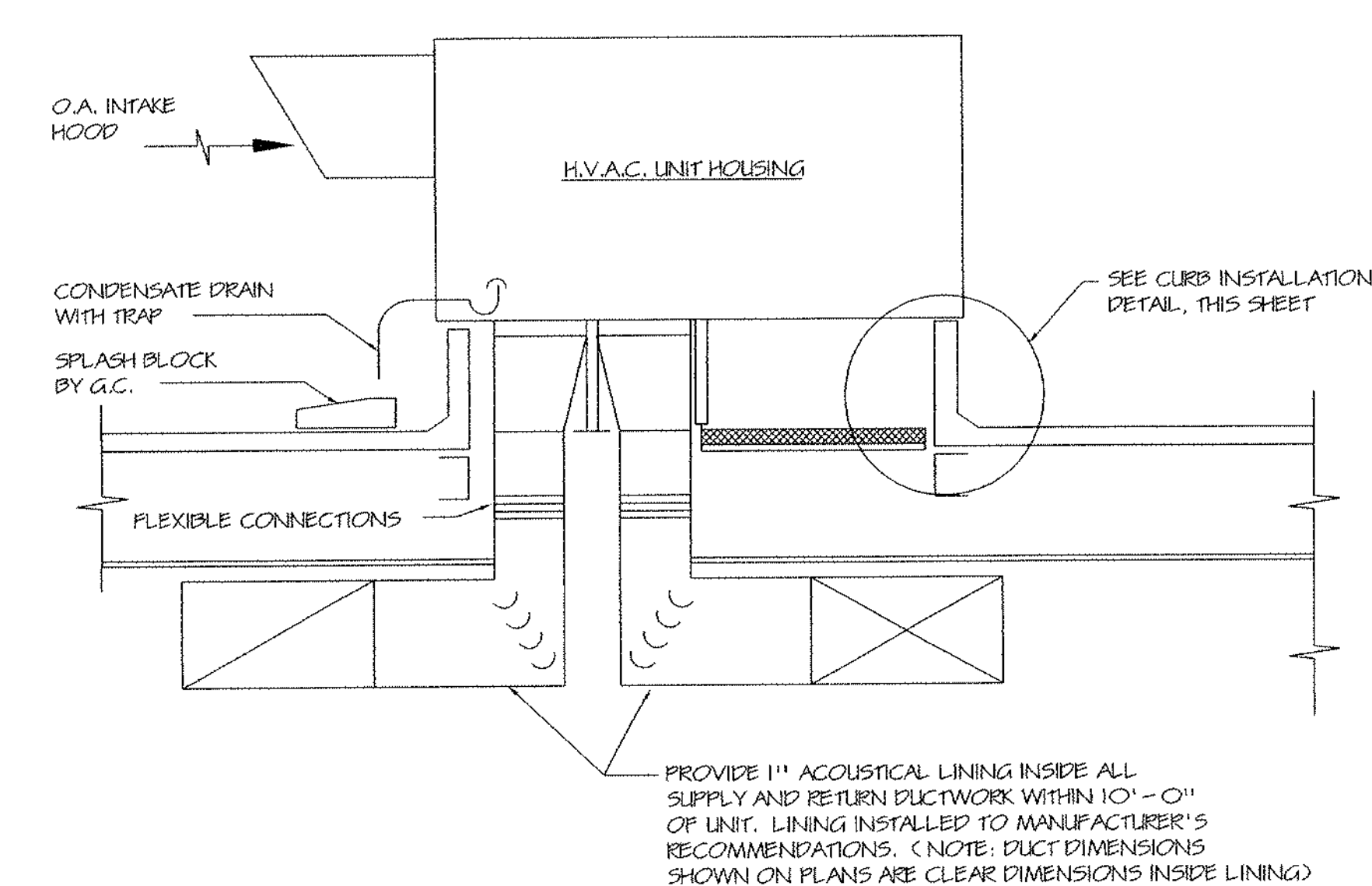
KITCHEN HOOD ROOF EXHAUST FAN MOUNTED DETAIL

NO SCALE
 NOTES:
 1. TYPICAL FOR FLAT ROOFS.



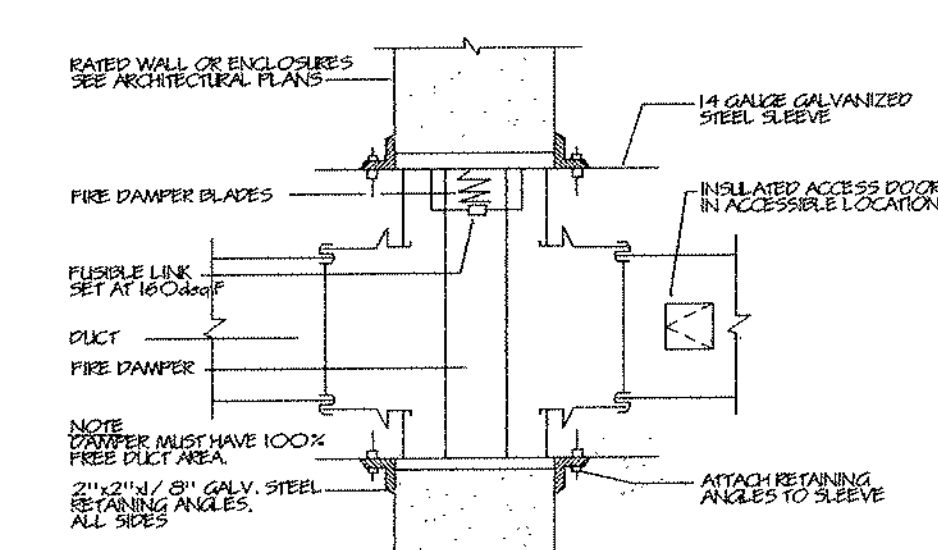
KITCHEN HOOD EXHAUST DUCT DETAIL

NO SCALE
 NOTES:
 1. COMPLETE INSTALLATION TO NFPA-96 AND LOCAL AUTHORITIES HAVING JURISDICTION REQUIREMENTS.
 2. PROVIDE APPROVED INSULATED ACCESS DOORS AT ALL TURNS IN DUCT AND AT FIRE DAMPER ACCESS WHEN PART OF UL LISTED KITCHEN HOOD.
 3. MAINTAIN THREE INCHES CLEARANCE AROUND ASSEMBLY TO ALL COMBUSTIBLE MATERIAL.
 4. PROVIDE 16 GA. WELDED CARBON STEEL DUCT SUPPORT TO NFPA-96



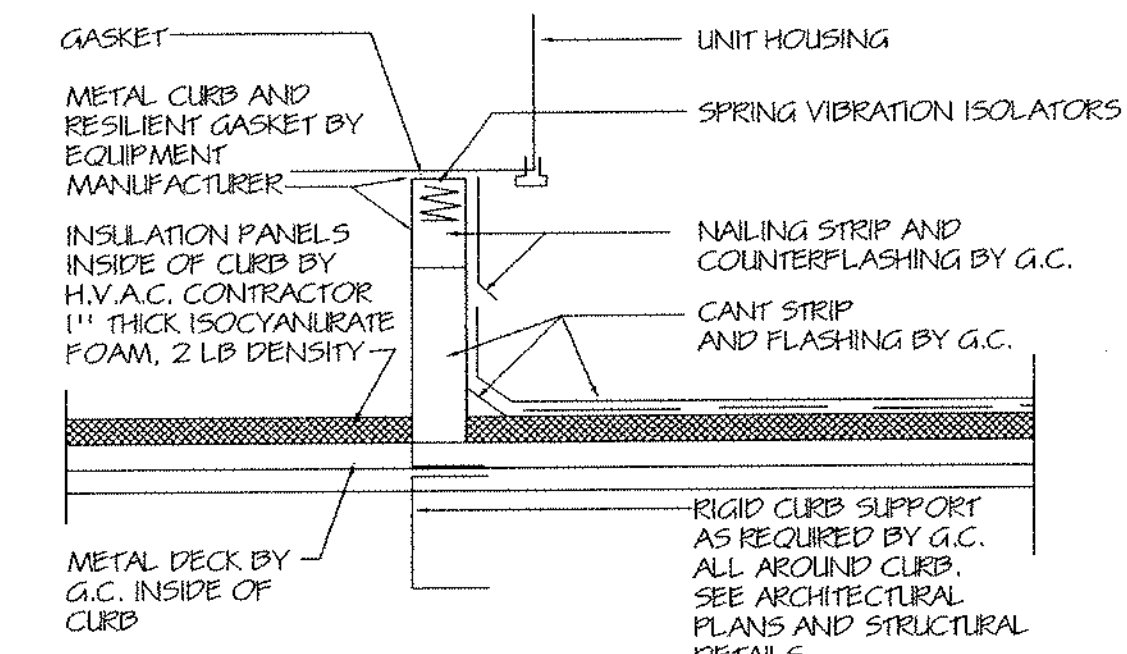
ROOFTOP HEATING/COOLING UNIT MOUNTING DETAIL

NO SCALE
 NOTES:
 1. PROVIDE ECONOMIZER ON ROOFTOP UNITS AS SCHEDULED.
 2. CONFIGURATION TYPICAL FOR SIZES/LET UNITS. G.C. TO PROVIDE EXTERIOR ROOF INSULATED DUCTWORK SUPPORTS AS REQUIRED FOR SUPPORT AND TO SNAICMA/INDUSTRY STANDARDS. EXTERIOR DUCTWORK WITHIN CURB AND EXTERIOR TO CURB TO BE WATER TIGHT. WEATHER SEALED TO SNAICMA STANDARDS. SEE SPECIFICATIONS.
 3. PROVIDE COMPLETE WITH SEISMIC ROOF CURBS.
 4. PROVIDE ELECTRICAL WITHIN ROOF CURB ASSEMBLY.



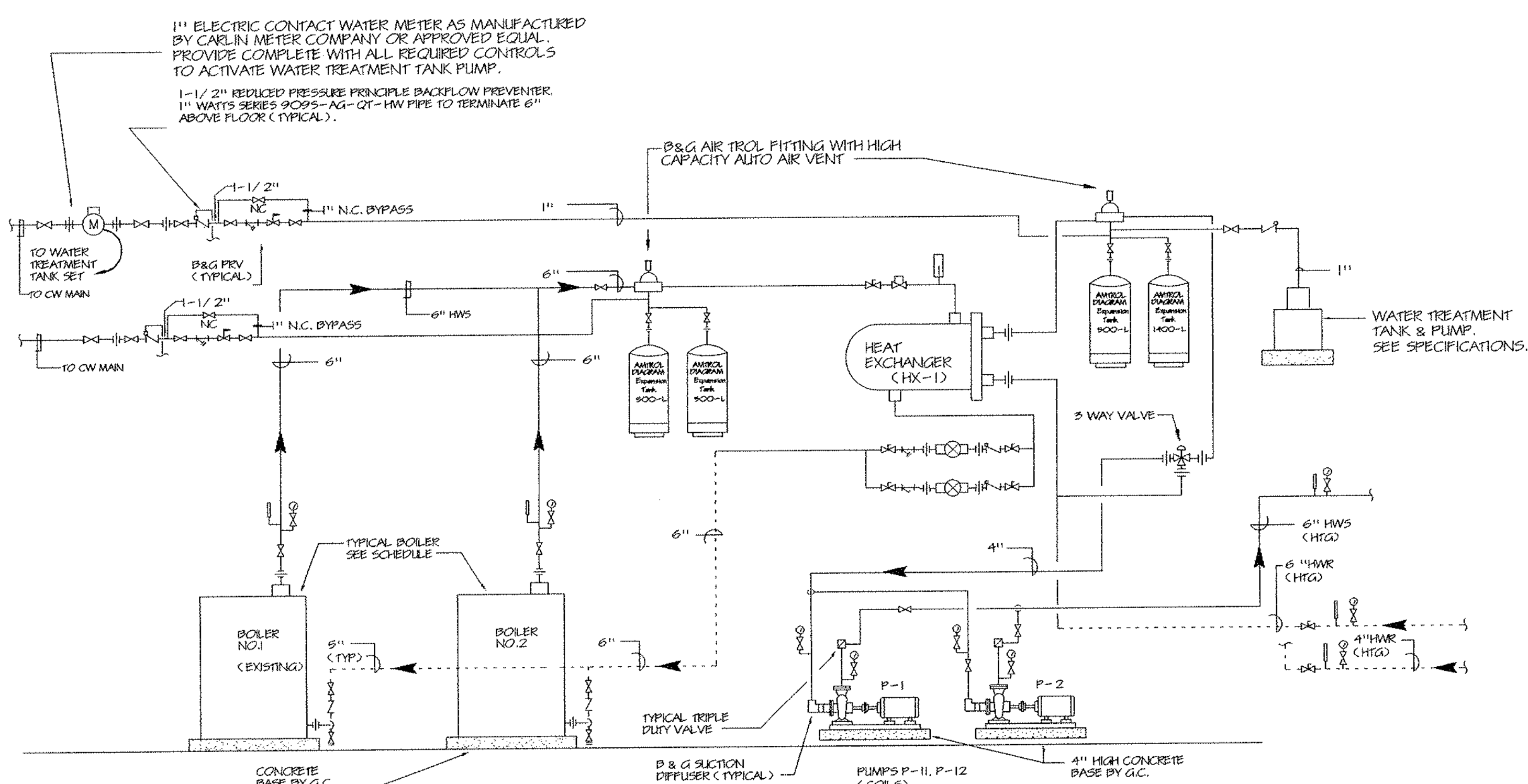
FIRE DAMPER DETAIL

NO SCALE
 NOTES:
 1. FOR VERTICAL AIR FLOW TURN ASSEMBLY 90° PROVIDE A SPRING NEGATOR AS REQUIRED.
 2. ALL FIRE DAMPERS SHALL BE UL-LABELLED TO NFPA-96A REQUIREMENTS.
 3. FIRE DAMPERS SHALL BE INSTALLED AND SEALED IN SLEEVES AND OPENINGS TO DAMPER MANUFACTURER'S RECOMMENDATIONS.
 4. FABRIC FIRE DAMPER SUB-FRAME ASSEMBLY TO SLEAVE BY WELDING, RIVETING OR BOLTING WITH BRINDING HEAD MACHINE SCREWS (SMOOTH HEAD TO INSIDE).
 5. SMOKE DAMPERS SIMILAR BUT MOTORIZED CONTROL FROM SMOKE DETECTORS BEING PROVIDED BY ELECTRICAL CONTRACTOR.



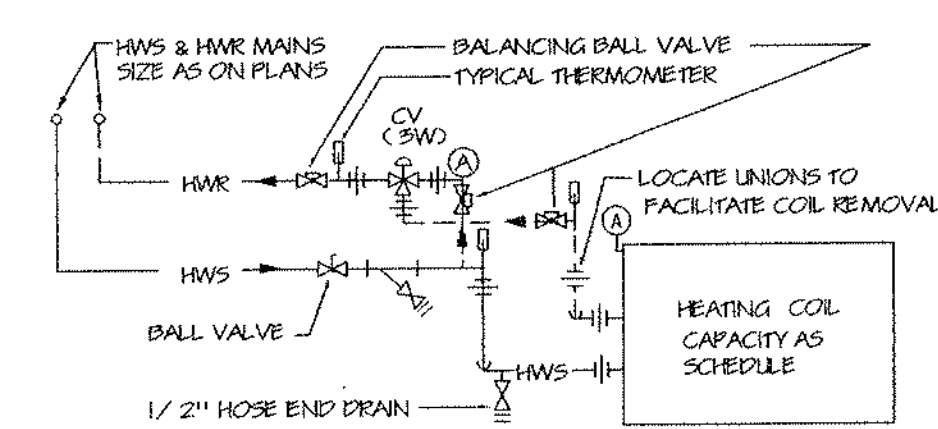
ROOFTOP UNIT CURB INSTALLATION DETAIL

NO SCALE
 NOTES:
 1. PROVIDE ELEVATED CURB AS REQUIRED FOR DUCTING IN CURB AND DUCT PENETRATIONS OF CURB AS REQUIRED.



SCHEMATIC BOILER PIPING DIAGRAM

NO SCALE
 NOTES:
 1. ALL EQUIPMENT SHOWN IS TO BE LOCATED IN BOILER ROOM
 2. SEE FLOOR PLANS AND SECTIONS.
 3. G.C. TO PROVIDE SUBSTANTIAL SUPPORTS FOR EXPANSION TANKS, AIR SEPARATORS AND HEAT EXCHANGERS.
 4. ALL THERMOWELDS AND GAUGES TO BE VISIBLE FROM 6' AFF.
 5. CONTRACTOR TO REPIPE COMPLETE BOILER ROOM AS REQUIRED TO ACCOMMODATE.

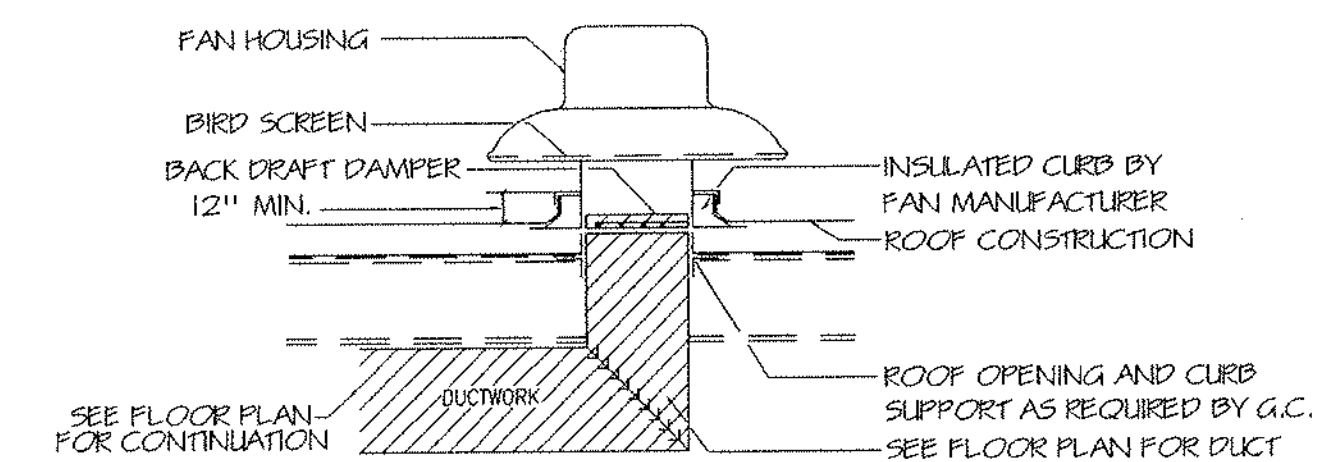


HOT WATER COIL PIPING DIAGRAM

NO SCALE
 NOTES:
 1. ENSURE ACCESS TO ALL COILS.

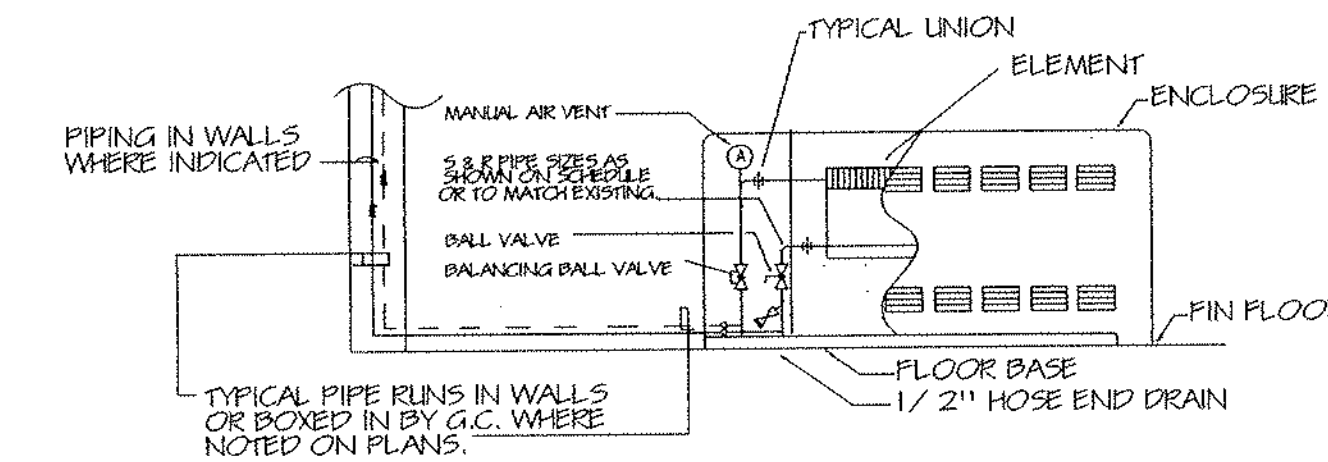
HEATING EXPANSION LOOPS

NOTES:
 1. LOOPS SHALL NOT BE SPRING.
 2. PROVIDE EXPANSION LOOPS AS REQUIRED FOR ALL HEATING PIPING.
 3. PROVIDE EXPANSION LOOPS AT 75 FOOT (MAXIMUM) INTERVALS.
 4. CONTRACTOR TO COORDINATE ALL PIPING AND LOOPS TO FIT WITHIN STRUCTURE. PROVIDE ADDITIONAL PIPING AND LOOPS AS REQUIRED.
 5. PROVIDE FEE AND MASON PIPE GUIDES TO MANUFACTURER'S RECOMMENDATIONS.
 6. H = 2W
 W = H/2



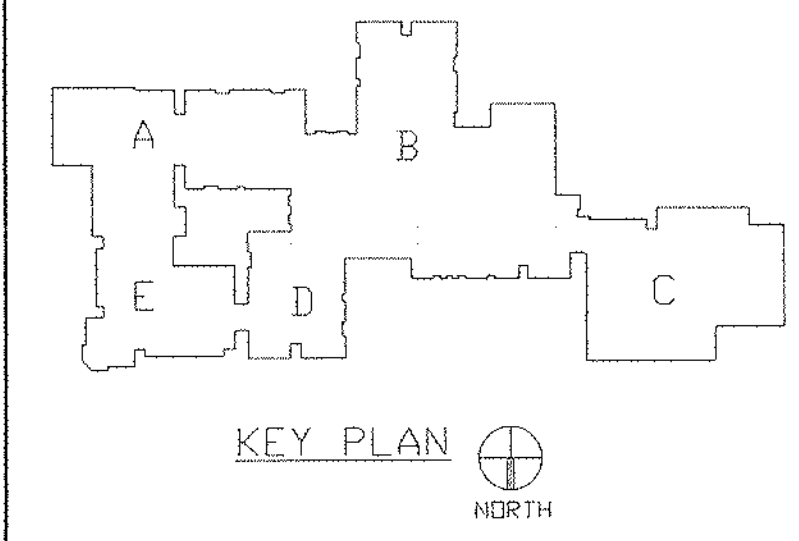
ROOF EXHAUST FAN MOUNTING DETAIL

NO SCALE
 NOTES:
 1. PROVIDE PITCHED CURBS AS REQUIRED.



CABINET UNIT HEATER PIPING DETAIL

NO SCALE
 NOTES:
 1. EACH UNIT FAN RESPONDING TO WALL MOUNTED SENSOR. SUBJECT TO LOW LIMIT STRAP-ON AGUASTAT.



KEY PLAN

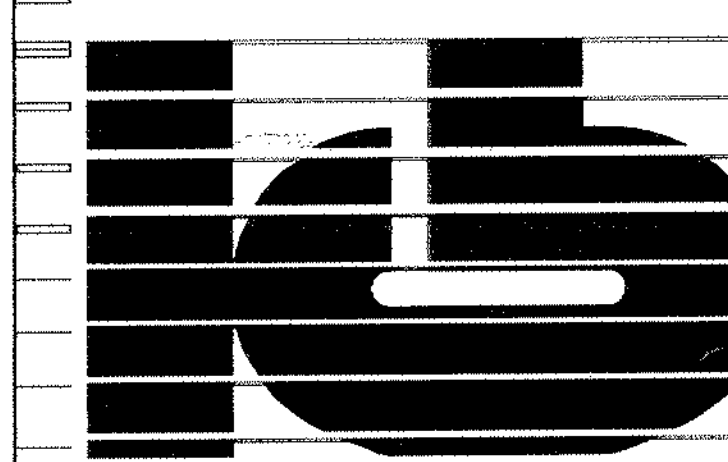
DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWING ISSUED FOR STATE DEPT. OF EDUCATION REVIEW
OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT

WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



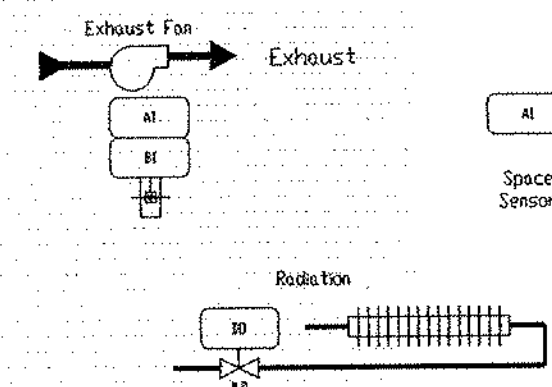
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

436 Slater Rd. New Britain, Connecticut 06050-2500 (203) 229-0361
 Drawn by: RL Scale: AS NOTED

MECHANICAL DETAILS

Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **M0.02**



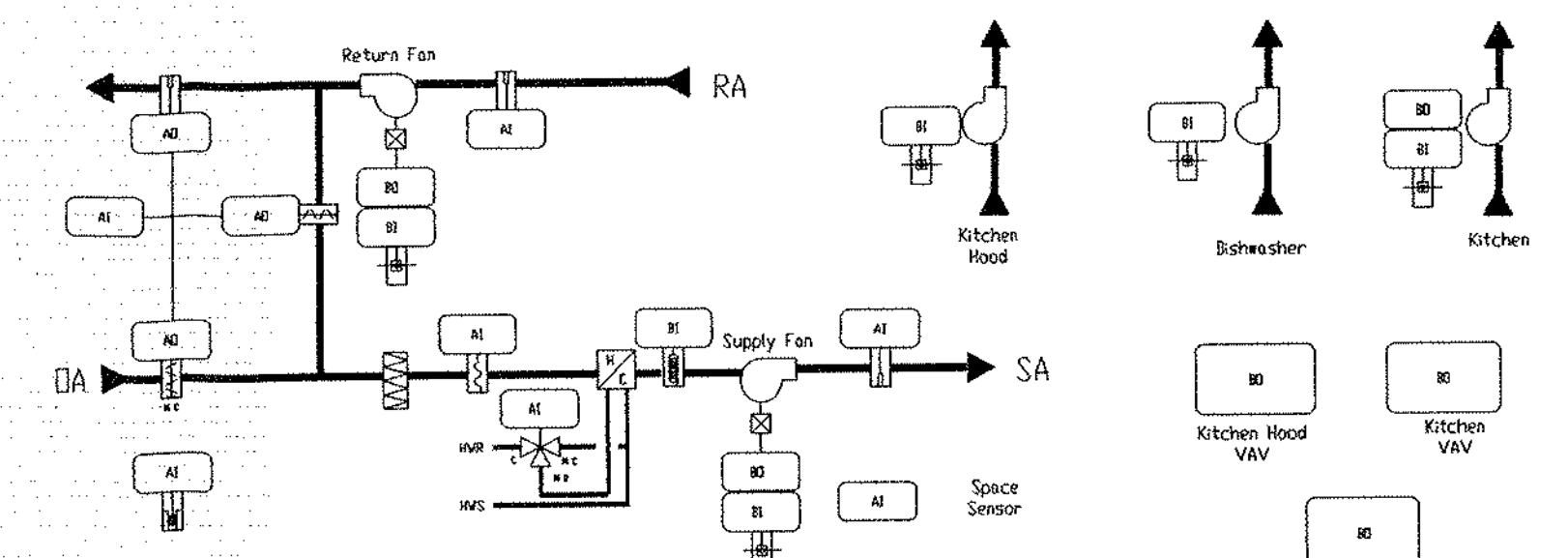
- Points List:**
- Analogue Outputs:**
- Exhaust Fan Status
- Analogue Inputs:**
- Space Temperature
 - Space Temperature Setpoint
- Binary Outputs:**
- Radiation Valve
 - Exhaust Fan

TYPICAL CLASSROOM CONTROL

Sequence of Operation - Classroom Control:

Occupied: The Classroom Exhaust Fan shall start through the DDC controller and run continuously. The exhaust fan speed shall be manually adjustable. The Room temperature sensor shall cycle the radiation control valve through the DDC controller to maintain the desired space temperature.

Unoccupied: The Radiation valve shall cycle to maintain the reduced unoccupied space setpoint. The Exhaust fan shall remain off.



- Points List:**
- Analogue Inputs:**
- Mixed Air Temperature
 - Discharge Air Temperature
 - Return Air Temperature
 - Space Temperature
- Binary Inputs:**
- Supply Fan Status
 - Return Fan Status
 - Kitchen Exhaust Status
 - Kitchen Exhaust Hood Status
 - Dishwasher Rpm Exhaust Status
 - Low Temperature Alarm
- Analogue Outputs:**
- Damper Command
 - Heating Valve
- Binary Outputs:**
- Supply Fan
 - Return Fan
 - Kitchen Exhaust
 - Kitchen VAV
 - Kitchen Hood VAV
 - Dishwasher Room VAV

RTU H&V CONTROL KITCH HOOD EXH

Sequence of Operation:

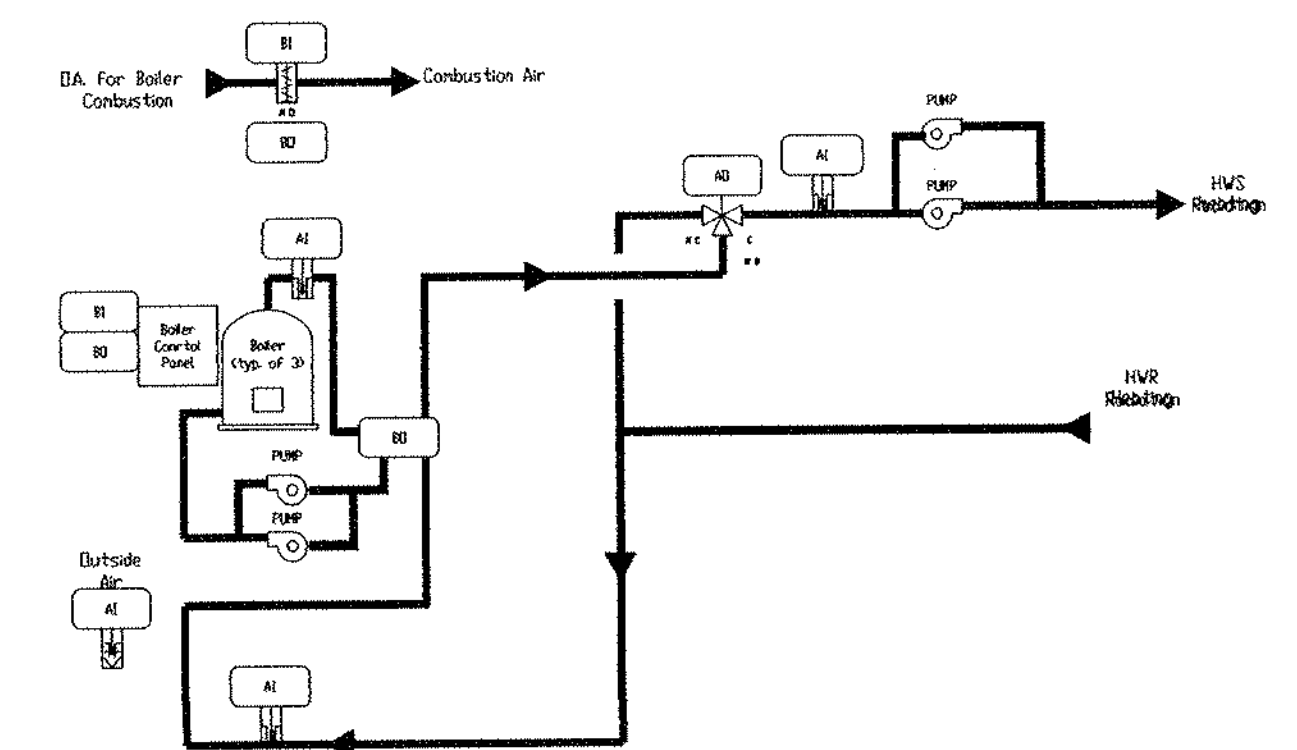
Occupied Cycle: The supply fan shall be started from the Building Management system and shall run continuously. When the supply fan starts, the return fan shall start, the outside air damper shall open to its minimum position, the return air damper shall close a corresponding amount, and the system shall come under control. The Supply Fan VFD shall operate at the lower speed setting. The Kitchen Exhaust fan shall operate, the kitchen VAV box shall be open and the Kitchen Hood VAV box shall be closed.

The supply air temperature setpoint shall be reset inversely proportional to the space temperature. On a call for heating, the DDC controller shall modulate the heating valve to maintain the required supply air temperature. The dampers shall remain at their minimum position. On a call for ventilation, the DDC controller shall modulate the dampers beyond their minimum position to provide for fresh air. When the Kitchen Hood is started manually, the kitchen exhaust shall stop, the kitchen Hood VAV box shall open, the kitchen VAV box shall close and the supply fan shall modulate to its high speed setting.

When the Dishwasher room exhaust fan is started manually, its VAV box shall open.

Unoccupied Cycle: The DDC controller shall cycle the supply fan on full return air and modulate the heating valve to maintain the reduced unoccupied space temperature. If the Kitchen Hood is started, the system shall revert to its occupied cycle.

Safeties: If the heating coil discharge temperature falls below 40C (104F) as sensed at the low temperature thermostat, the supply fan shall stop, the dampers shall be indexed to their fail position. The low temperature thermostat is manually reset-able once the freeze condition no longer exists.



- Points List:**
- Analogue Inputs:**
- Outside Air Temperature
 - Boiler HWTS Temperature
 - Hot Water Supply Temperature
 - Hot Water Return Temperature
- Binary Inputs:**
- Pump Status
 - Pump Status
 - Comb. Damper Status
- Analogue Outputs:**
- HC-1
 - Radiation Hot Water Valve
- Binary Outputs:**
- Boiler Control
 - Pump Control
 - Pump Control
 - Combustion Damper

BOILER AND PUMP CONTROL

Sequence of Operation:

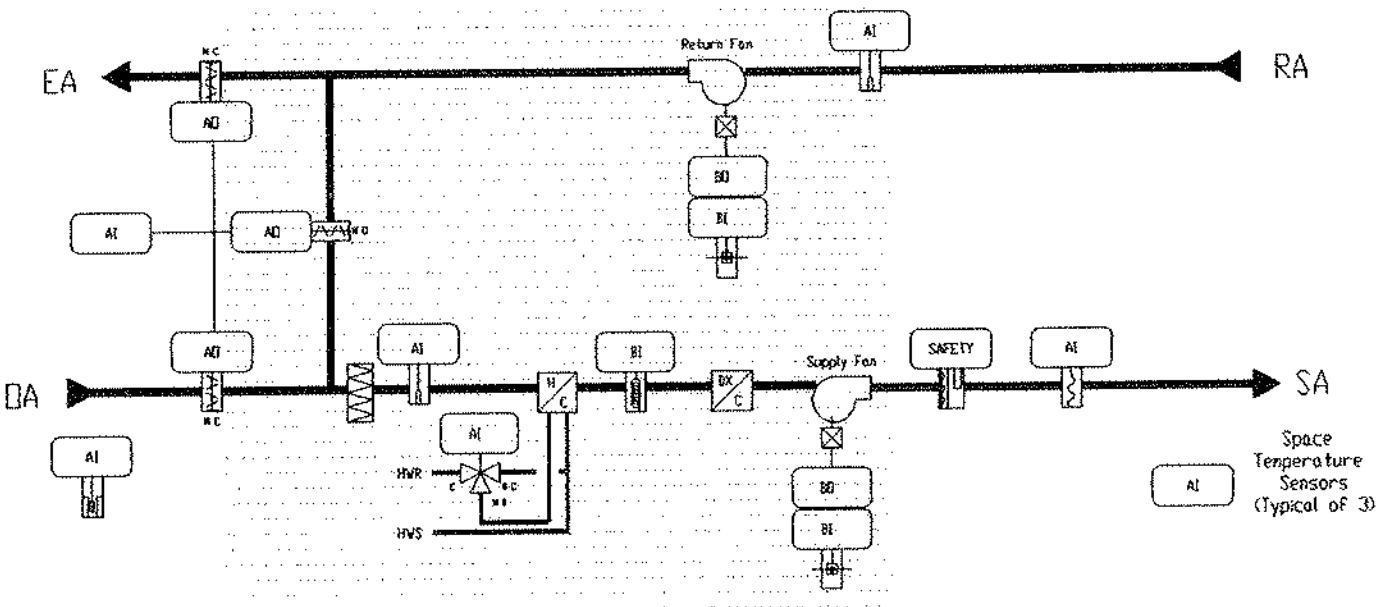
Boiler Plant Control: When the outside air temperature is above 60 Deg F the boiler shall be disabled. When the Outside air temperature below 55 Deg F the lead primary pump shall start. If the lead pump fails to operate the lag pump shall start and an alarm shall be generated at the operator workstation. Once flow is verified the combustion air damper shall fully open and the boiler shall be enabled to operate. If run status or if the combustion air damper fails the boiler shall shut-down. The Boiler shall operate on its own operating controls.

The radiation hot water reset control valve and the heat exchanger control valve shall modulate to maintain their required hot water supply temperature. The reset schedules shall be adjustable. The Hot Water setpoints shall initially be reset by the following schedule:

Outside Air Temp	Hot Water Setpoint
60 deg F	190 deg F
60 deg F	140 deg F

If a lead radiation zone pump fails its lag pump shall be started and a system alarm shall be generated. If the lead coil pump fails its lag pump shall be started and a system alarm shall be generated.

Boiler water temperatures and run status shall be continuously monitored and alarmed if a failure or alarm condition occurs.



- Points List:**
- Analogue Outputs:**
- Damper Command
 - Heating Valve
- Binary Inputs:**
- Supply Fan Status
 - Return Fan Status
 - Low Temperature Alarm
 - Smoke Detector
- Analogue Inputs:**
- Space Temperature Sensors (typical of 3)
 - Outdoor Air Temperature
 - Mixed Air Temperature
 - Disch Air Temperature
 - Return Air Temperature
 - Space Temperature
- Binary Outputs:**
- Cooling Stage 1
 - Cooling Stage 2
 - Supply Fan
 - Return Fan

RTU CONTROL MEDIA CENTER CAFETERIA OFFICE

Sequence of Operation:

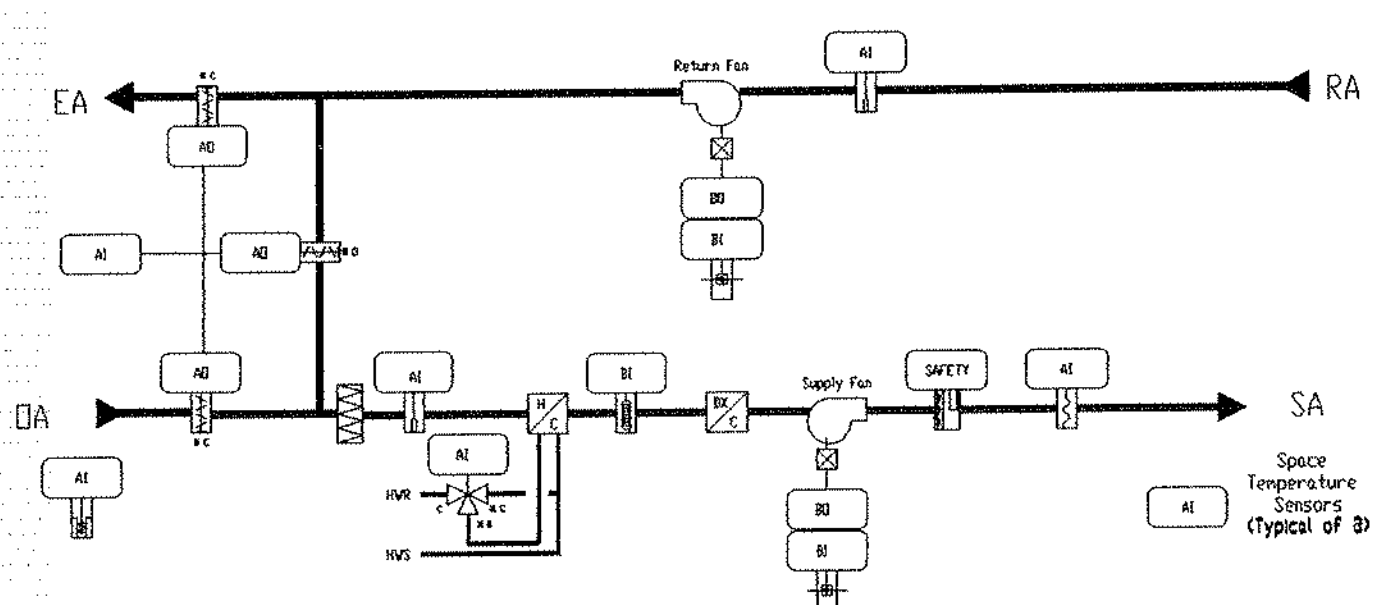
Start/Stop Control: The occupied mode shall be scheduled through the energy management control system. When in the occupied mode, the supply and return fans shall run continuously. In the unoccupied mode the fans shall cycle on 100% return air to maintain the lower unoccupied heating setpoint.

Damper Control: The mixing dampers shall begin to close when the mixed air temperature decreases into the mixed air low limit setpoint range.

Temperature Control: The discharge air setpoint shall be reset from the average of the three zone space temperature sensors. On a call for heating, the heating valve shall be modulated to maintain the discharge air setpoint reset between 55 and 65 degrees. When the discharge air temperature falls below setpoint, the heating valve shall be modulated open. The mixing dampers and D/X cooling shall be controlled from the average space temperature. On an increase in space temperature the outside air damper shall be modulated beyond minimum position. On a further increase in space temperature, the D/X cooling shall be modulated in stages. When the outside air temperature drops below the cooling lockout setpoint, the D/X cooling shall be prevented from operating.

Economizer Cycle: Ideal Dry Bulb Economizer cycle shall allow the outdoor air and return air dampers to provide free cooling when the outdoor air temperature is less than the return air temperature. When the outdoor air temperature is greater than the return air temperature, the dampers shall open to their minimum position.

Safeties: If the air temperature leaving the heating coil drops below the 50 Deg F or smoke is detected in the supply duct, the supply fan shall stop.



- Points List:**
- Analogue Outputs:**
- Damper Command
 - Heating Valve
- Binary Inputs:**
- Supply Fan Status
 - Return Fan Status
 - Low Temperature Alarm
 - Smoke Detector
- Analogue Inputs:**
- Outdoor Air Temperature
 - Mixed Air Temperature
 - Disch Air Temperature
 - Return Air Temperature
 - Space Temperature
- Binary Outputs:**
- Cooling Stage 1
 - Cooling Stage 2
 - Supply Fan
 - Return Fan

AHU CONTROL OFFICE AREA

Sequence of Operation:

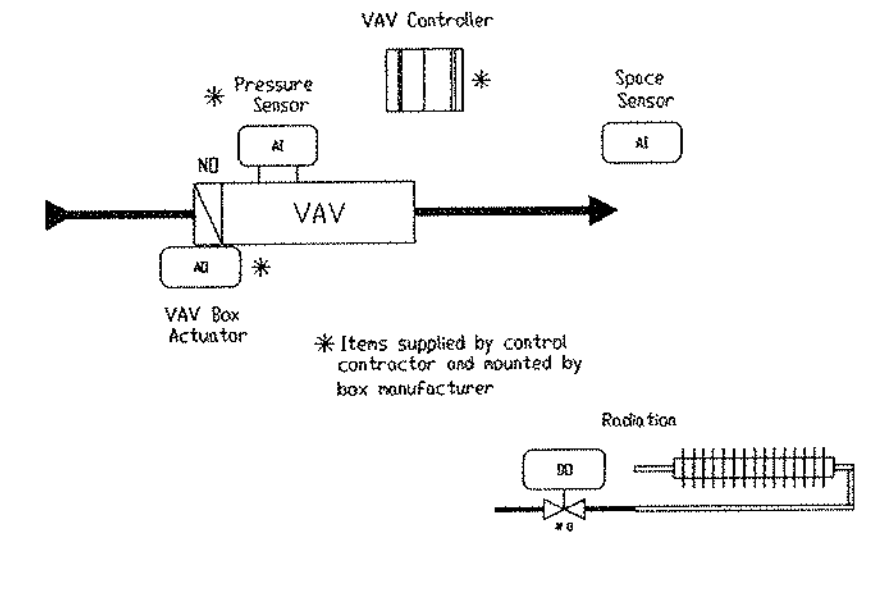
Start/Stop Control: The occupied mode shall be scheduled through the energy management control system. When in the occupied mode, the supply and return fans shall run continuously. In the unoccupied mode the fans shall cycle on 100% return air to maintain the lower unoccupied heating setpoint.

Damper Control: The mixing dampers shall begin to close when the mixed air temperature decreases into the mixed air low limit setpoint range.

Temperature Control: The discharge air setpoint shall be reset from the space temperature sensor. On a call for heating, the heating valve shall be modulated to maintain the discharge air setpoint reset between 55 and 65 degrees. When the discharge air temperature falls below setpoint, the heating valve shall be modulated open. The mixing dampers and D/X cooling shall be controlled from the space temperature. On an increase in space temperature the outside air damper shall be modulated beyond minimum position. On a further increase in space temperature the D/X cooling shall be modulated in stages. When the outside air temperature drops below the cooling lockout setpoint, the D/X cooling shall be prevented from operating.

Economizer Cycle: Ideal Dry Bulb Economizer cycle shall allow the outdoor air and return air dampers to provide free cooling when the outdoor air temperature is less than the return air temperature. When the outdoor air temperature is greater than the return air temperature, the dampers shall open to their minimum position.

Safeties: If the air temperature leaving the heating coil drops below the 50 Deg F or smoke is detected in the supply duct, the supply fan shall stop.



- Points List:**
- Analogue Outputs:**
- VAV Damper Command
- Binary Inputs:**
- Space Sensor
- Analogue Inputs:**
- Space Temperature
 - Space Temperature Setpoint
 - VAV Box Static Pressure
- Binary Outputs:**
- Radiation Valve

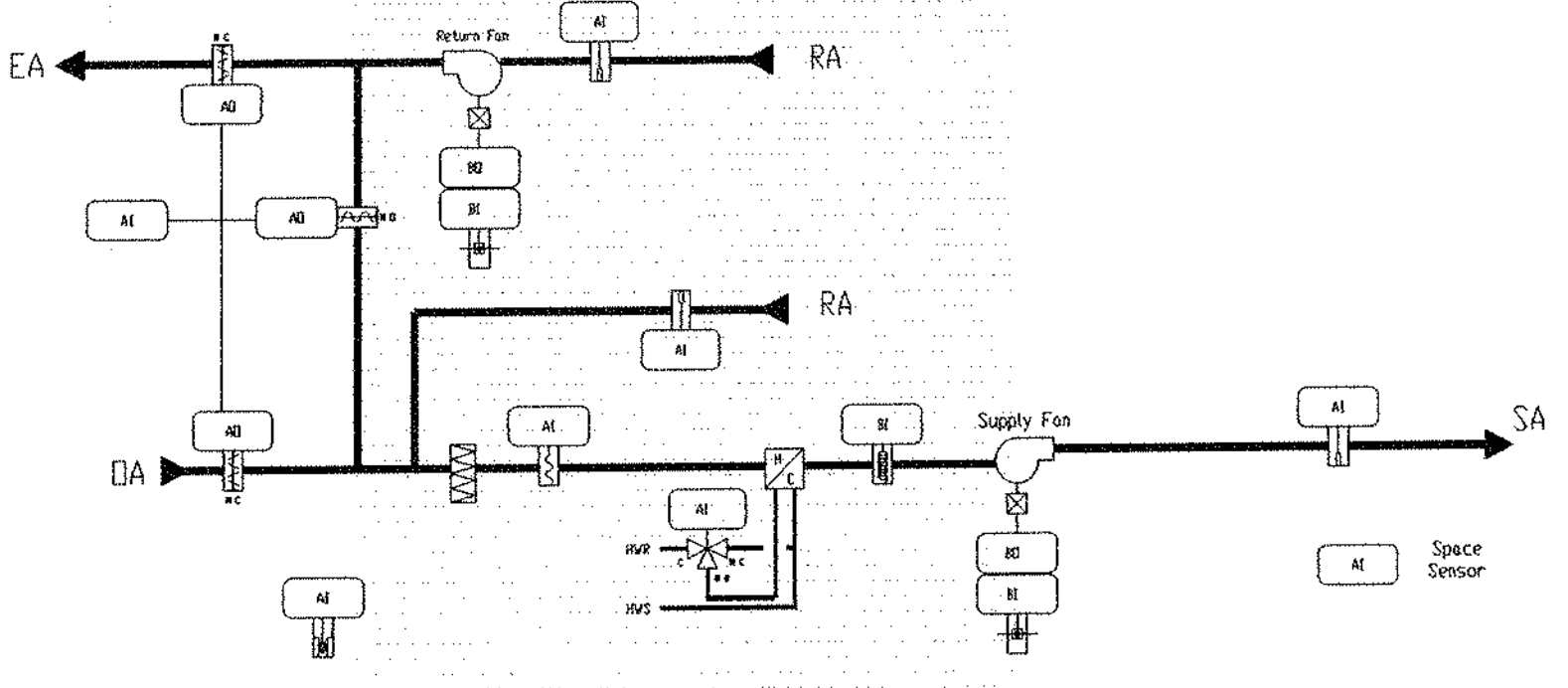
TYPICAL VAV BOX CONTROL

Sequence of Operation - VAV Terminal Boxes:

Occupied: Room temperature sensor will modulate primary air damper from minimum primary air to 100% primary air to 100% primary air. On a rise in space temperature the vav box damper shall modulate toward toward the maximum open position. On a drop in space temperature below setpoint, the vav box damper shall modulate down to its minimum position. On a further call for heating, the radiation valve in the rooms served with radiation shall open.

Unoccupied: The Radiation valve shall cycle to maintain the reduced unoccupied space setpoint.

Note: Provide VAV Control for all boxes to respective units.



- Points List:**
- Analogue Inputs:**
- Mixed Air Temperature
 - Discharge Air Temperature
 - Return Air Temperature
 - Space Temperature (multiple)
- Binary Inputs:**
- Supply Fan Status
 - Return Fan Status
 - Low Temperature Alarm
- Analogue Outputs:**
- Heating Valve
- Binary Outputs:**
- Supply Fan
 - Return Fan (RT11-B)
 - Outside Air Damper

RTU CONTROL GYM (S)

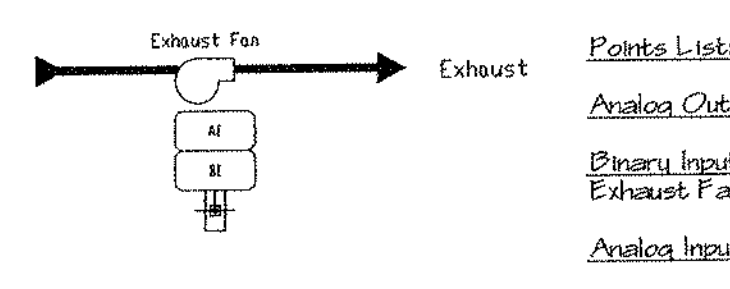
Sequence of Operation:

Occupied Cycle: The supply fan shall be started from the Building Management system and shall run continuously. When the supply fan starts, the minimum outside air damper shall open and the system shall come under control.

The supply air temperature setpoint shall be reset inversely proportional to the space temperature. On a call for heating, the DDC controller shall modulate the heating valve to maintain the required supply air temperature.

Unoccupied Cycle: The DDC controller shall cycle the supply fan on full return air and modulate the heating valve to maintain the reduced unoccupied space temperature.

Safeties: If the heating coil discharge temperature falls below 40C (104F) as sensed at the low temperature thermostat, the supply fan shall stop, the dampers shall be indexed to their fail position. The low temperature thermostat is manually reset-able once the freeze condition no longer exists.



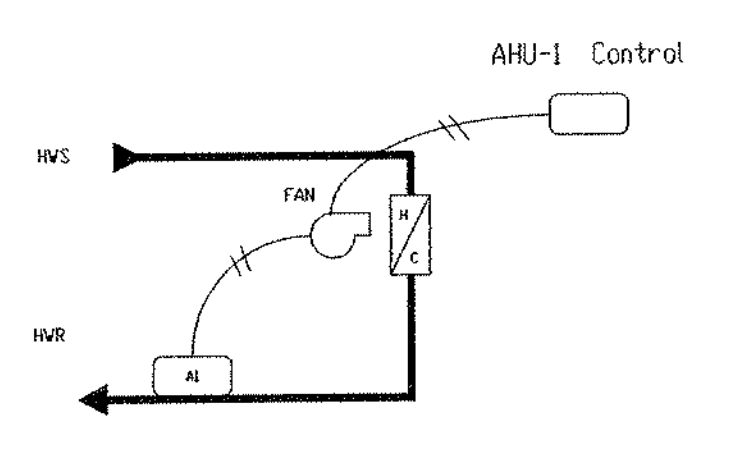
- Points List:**
- Analogue Outputs:**
- Exhaust Fan Status
- Analogue Inputs:**
- Exhaust Fan

TYPICAL TOILET EXHAUST FAN CONTROL

Sequence of Operation - Toilet Exhaust Fans:

Occupied: The Exhaust Fan shall start through the DDC controller and run continuously.

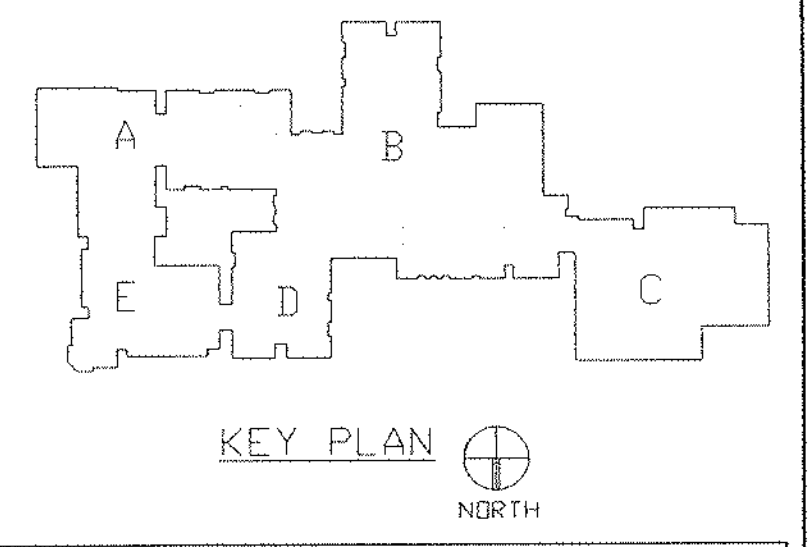
Unoccupied: The Exhaust Fan shall be off. If the Toilet room light switch is turned on, the exhaust fan shall start.



UNIT HEATER AND CABINET UNIT HEATER CONTROL

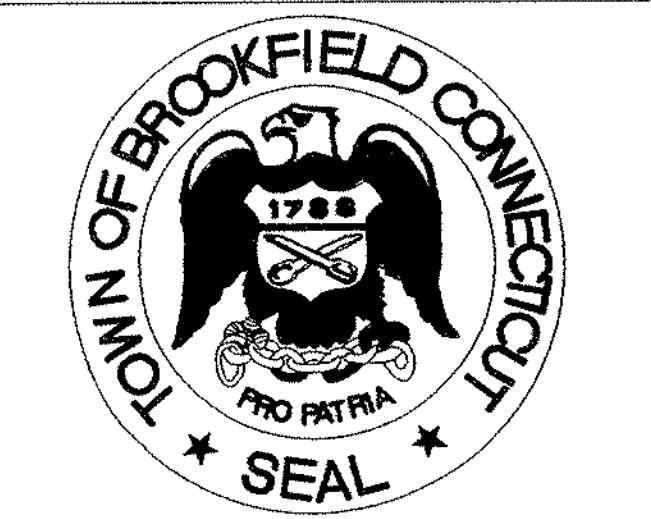
Sequence of Operation - Unit and Cabinet Control:

The Line Voltage Room Thermostat shall cycle the Unit Heater fan on a call for heat. The strap-on aquastat shall prevent the fan from operating if there is no hot water available.



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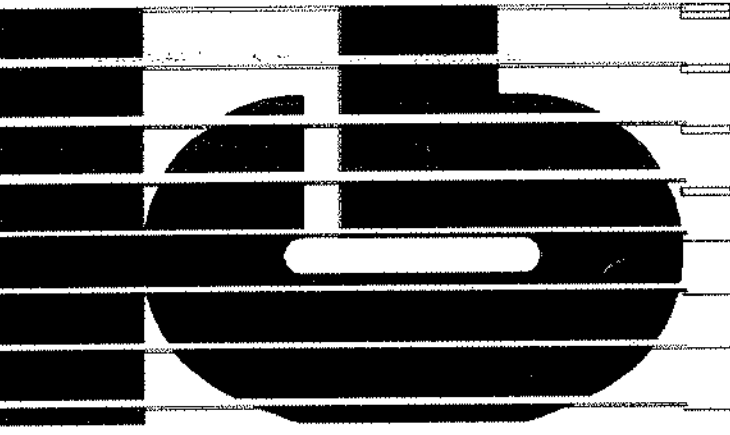


ADDITIONS AND RENOVATIONS TO THE WHISCONIER MIDDLE SCHOOL BROOKFIELD CONNECTICUT

WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA
& 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.

CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516

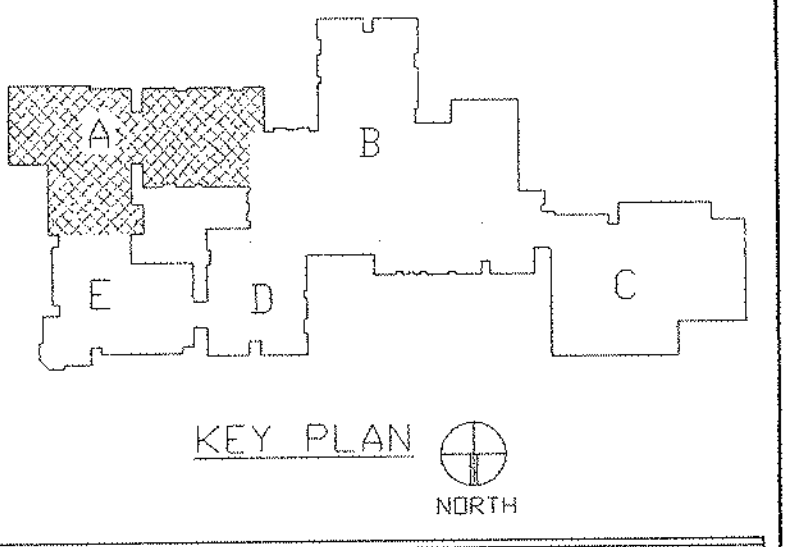


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Drawn by: J.L.L. Scale: AS NOTED

MECHANICAL CONTROL DETAILS

Project no. 45110 Drawing no.



REVISIONS

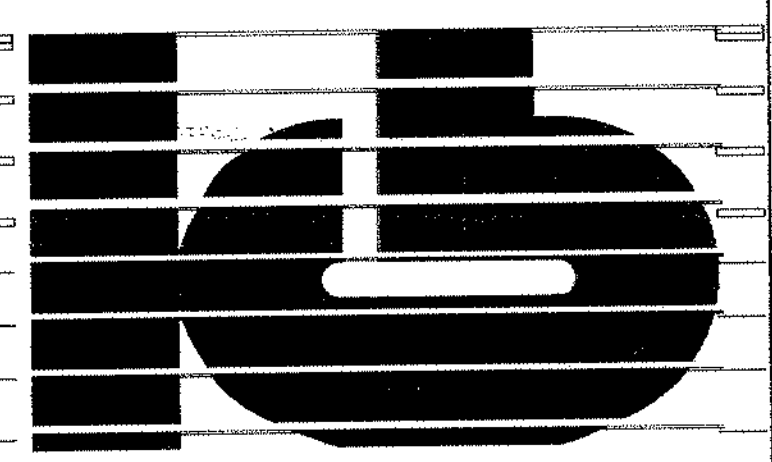
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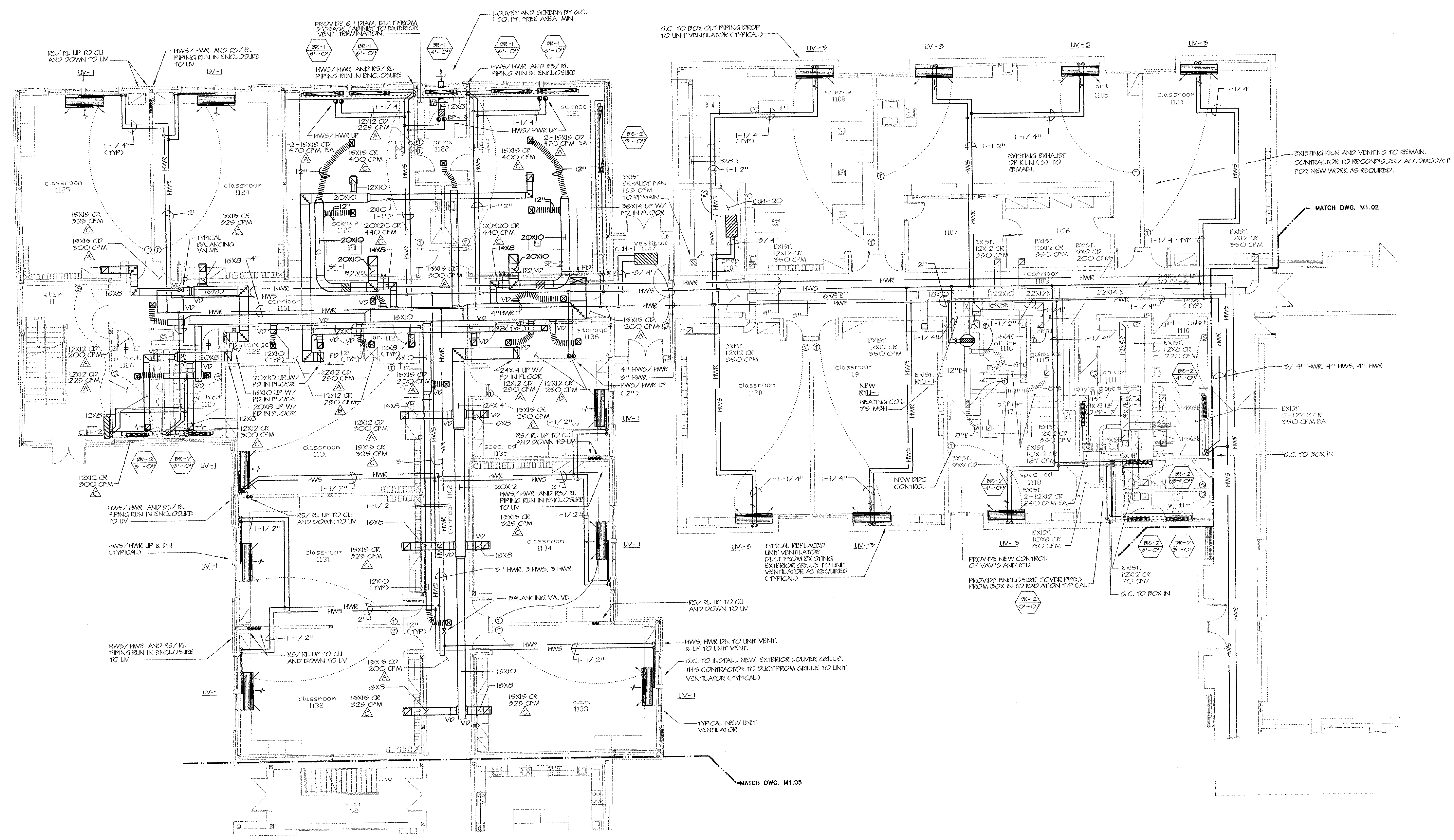
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 ARCHITECTS

46 Slater Rd. New Britain, Connecticut 06050-2900 (203) 229-0081
 Drawn by: E.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL FLOOR PLAN AREA A

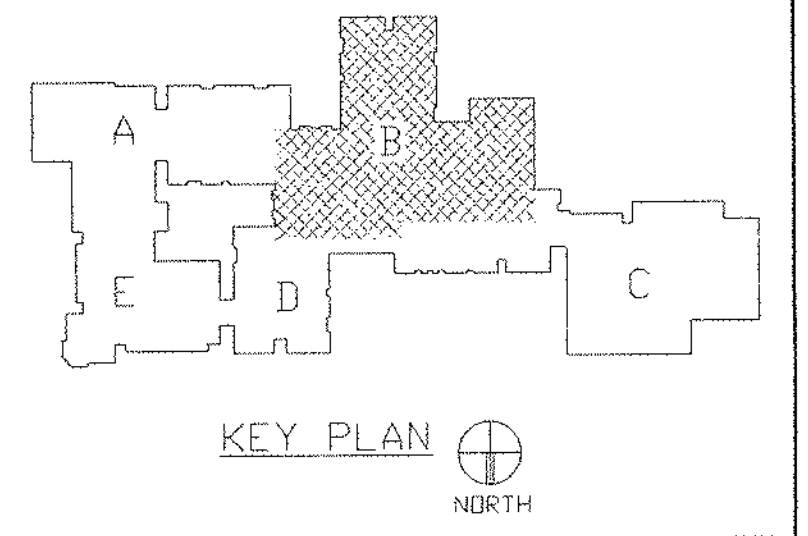
Project no. 45110 Drawing no.

DATE: DECEMBER 16, 1998 **M1.01**



1 MECHANICAL MAIN LEVEL FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

- NOTES:
1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASWORK MODIFICATIONS.
 3. EXISTING ELECTRIC HEATING SYSTEM TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING DUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.



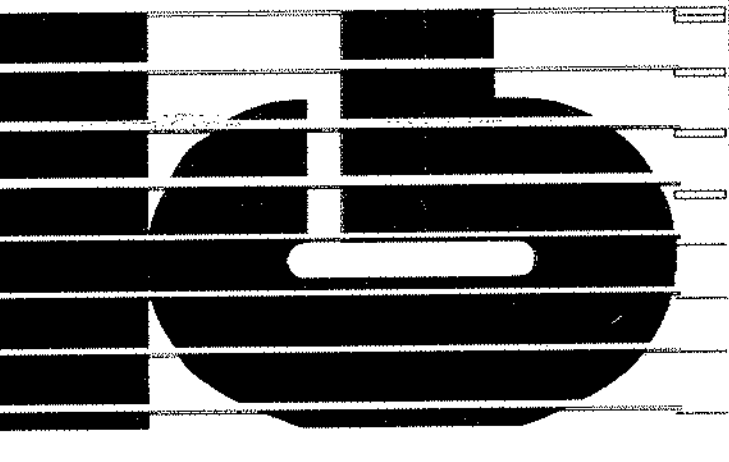
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 BROOKFIELD, CT 06804
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WALTER MCILVEEN ASSOCIATES, INC.
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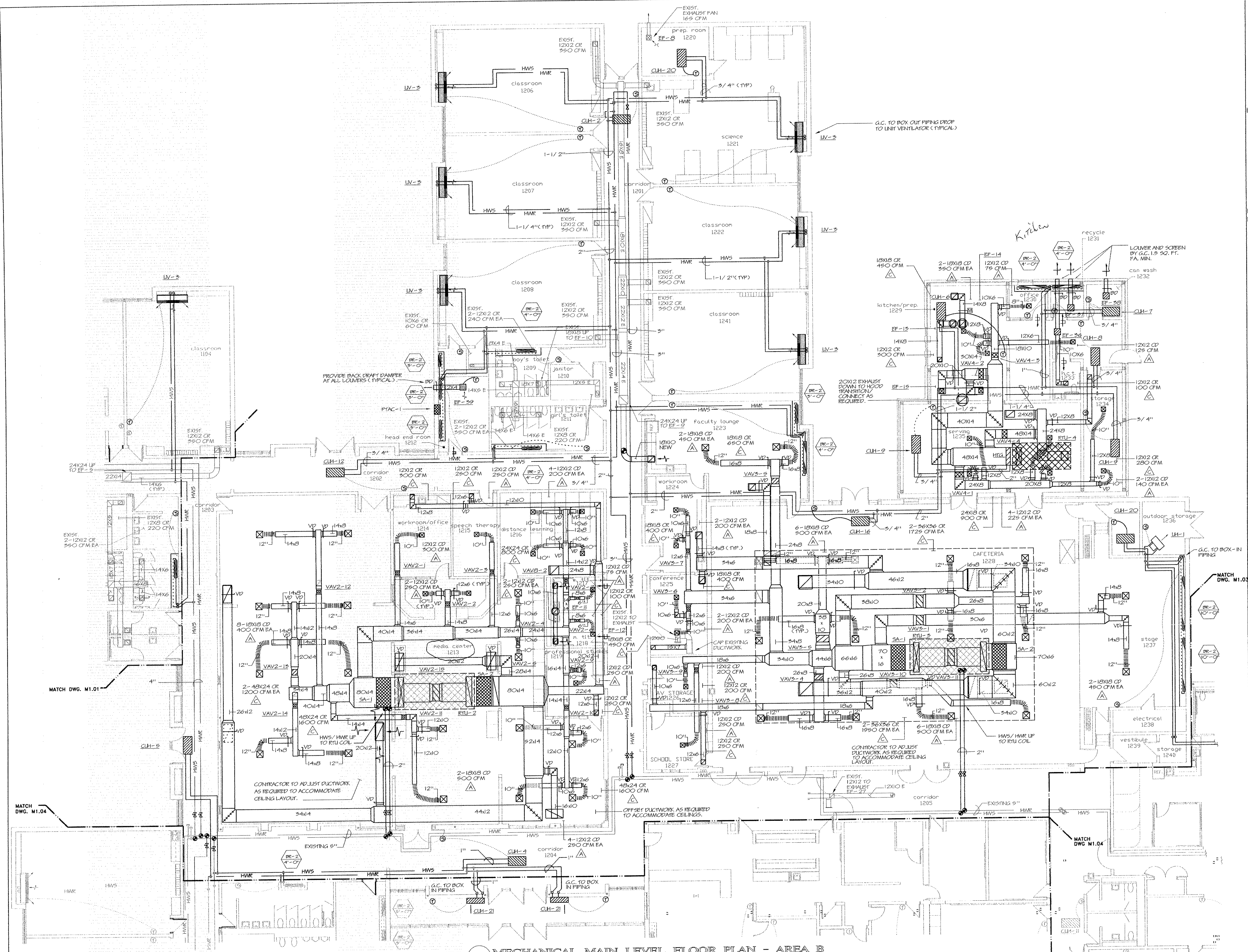
KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

418 Slater Rd., New Britain, Connecticut 06105-2500 203-729-0361
 Drawn by: G.W.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL FLOOR PLAN AREA B

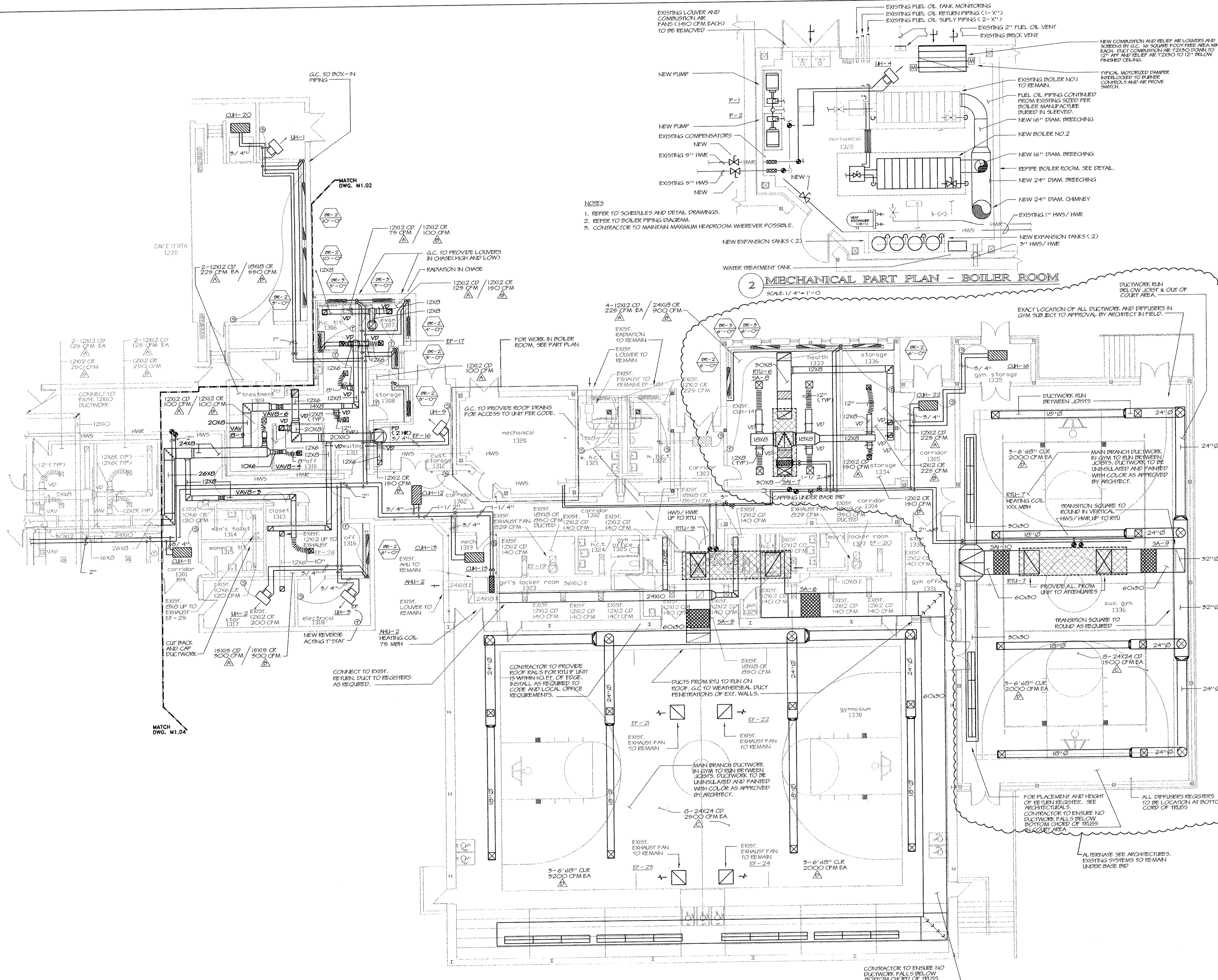
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Date: DECEMBER 16, 1998 **M1.02**



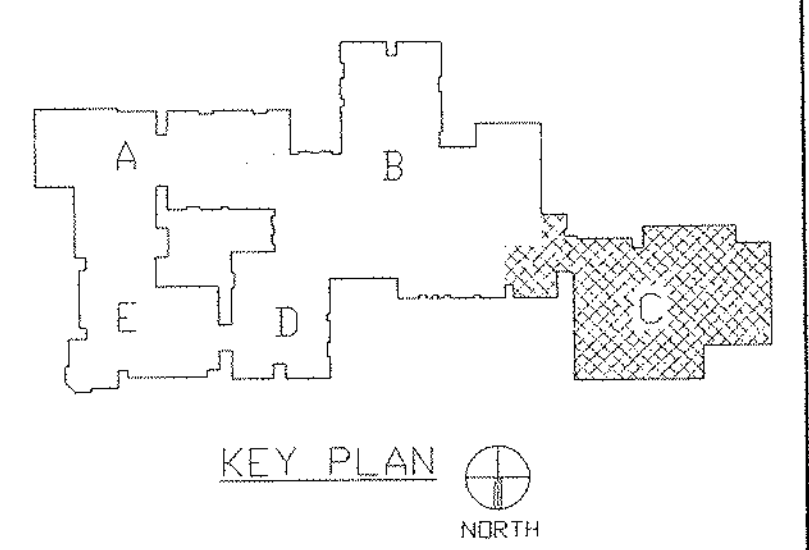
1 MECHANICAL MAIN LEVEL FLOOR PLAN - AREA B
 SCALE: 1/8" = 1'-0"

- NOTES
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 - EXISTING ELECTRIC HEATING SYSTEMS TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING DUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.



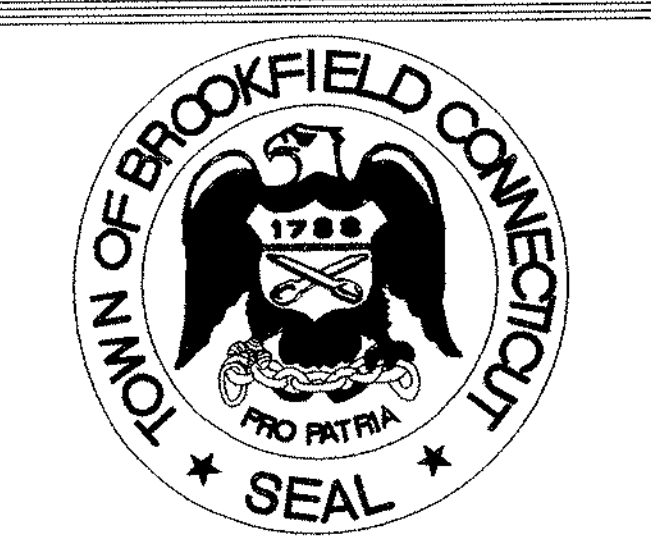
1 MECHANICAL MAIN LEVEL FLOOR PLAN - AREA C
 SCALE: 1/8" = 1'-0"

- NOTES:
1. SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 2. FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 3. EXISTING ELECTRIC HEATING SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.



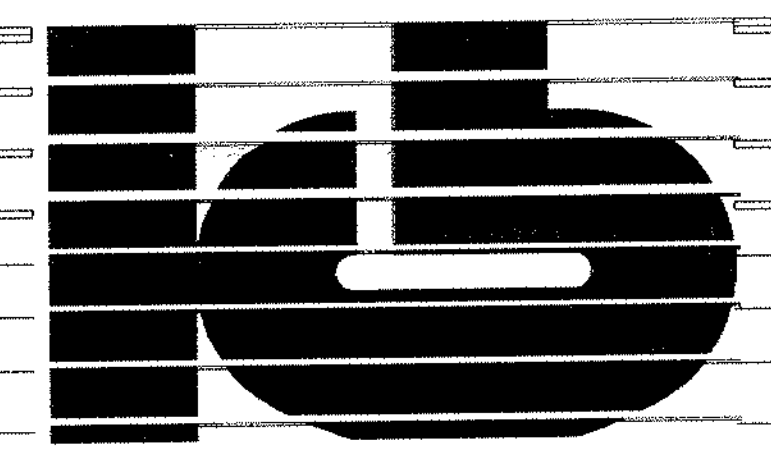
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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



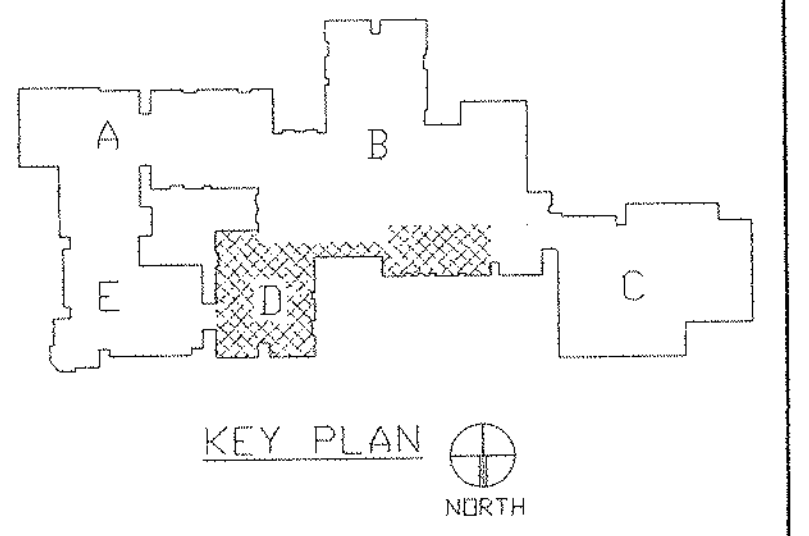
KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

416 Slater Rd., New Britain, Connecticut 06050-2500 0303 229-0261
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MECHANICAL MAIN LEVEL FLOOR PLAN AREA C

Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **M1.03**



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 AVON, CT 06001-0516



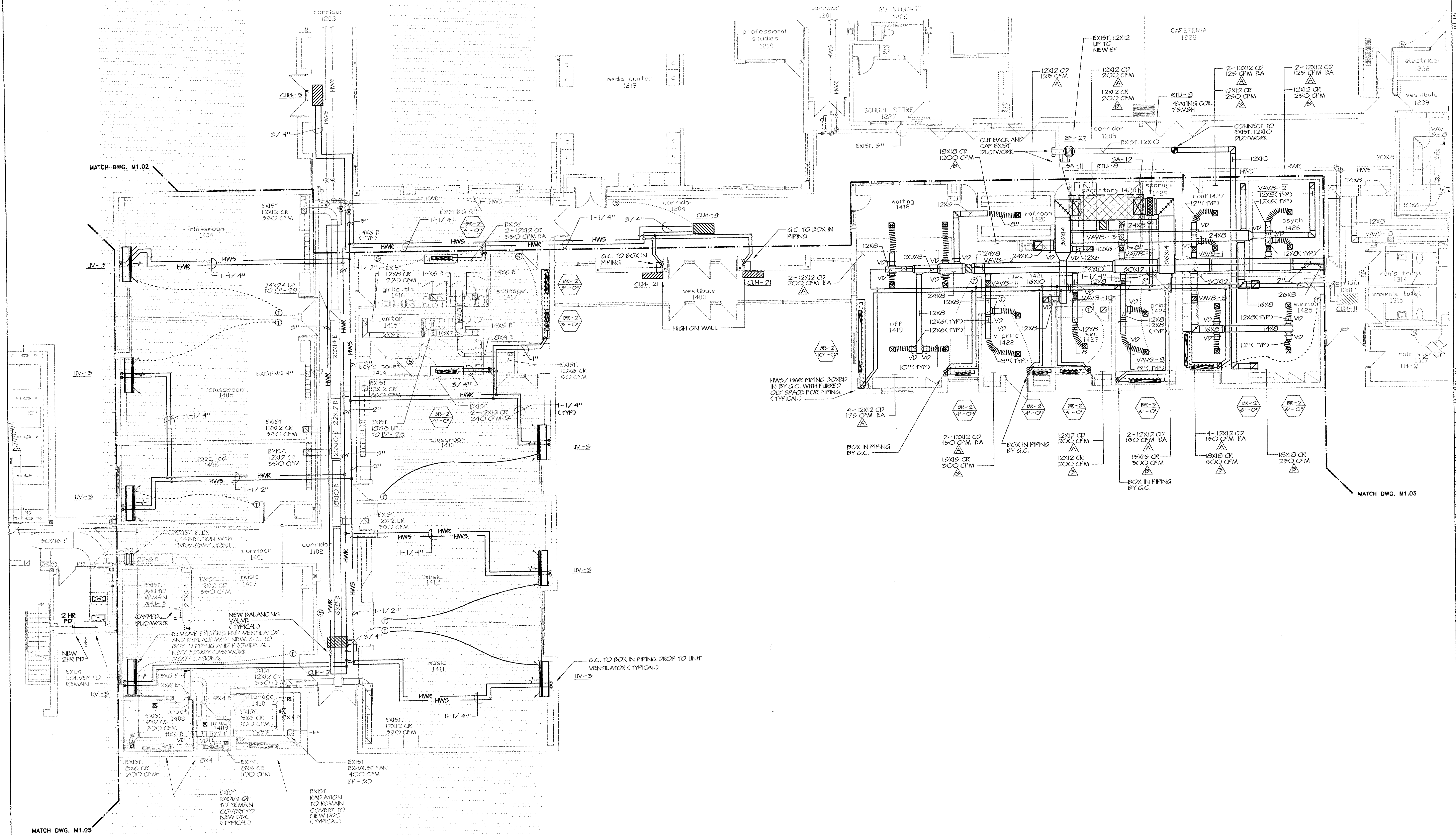
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 Drawn by: R.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL FLOOR PLAN AREA D

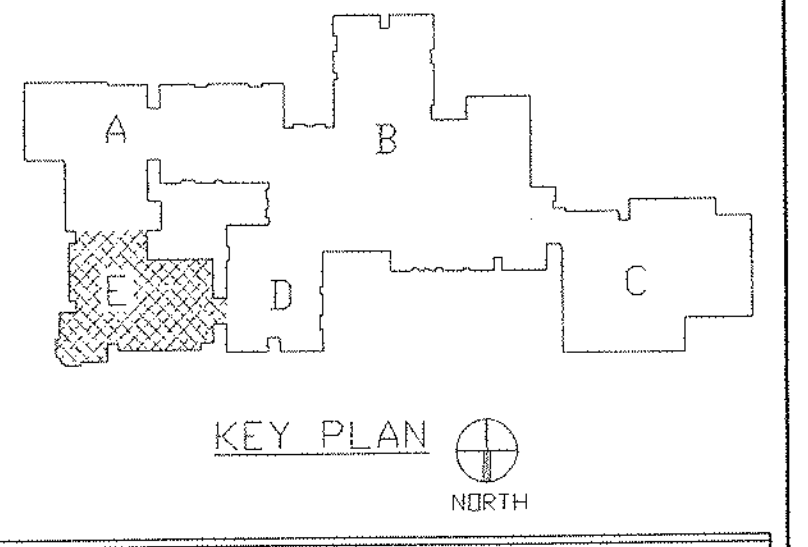
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **M104**



1 MECHANICAL MAIN LEVEL FLOOR PLAN - AREA D
 SCALE: 1/8" = 1'-0"

- NOTES:**
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASWORK MODIFICATIONS.
 - EXISTING ELECTRIC HEATING SYSTEM TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING PUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.

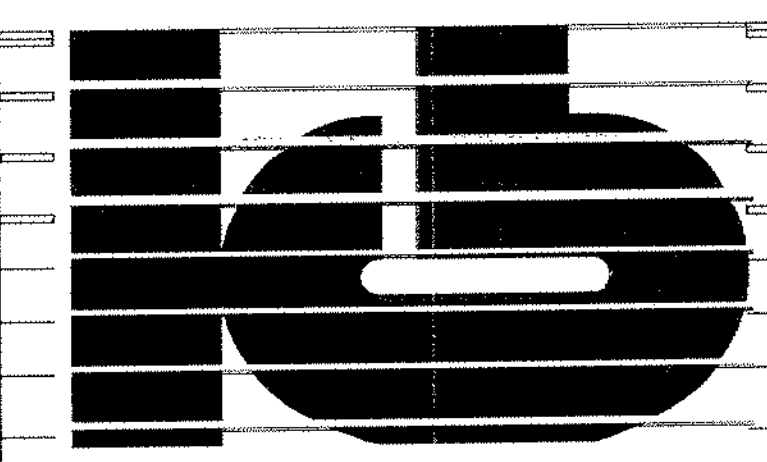


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 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

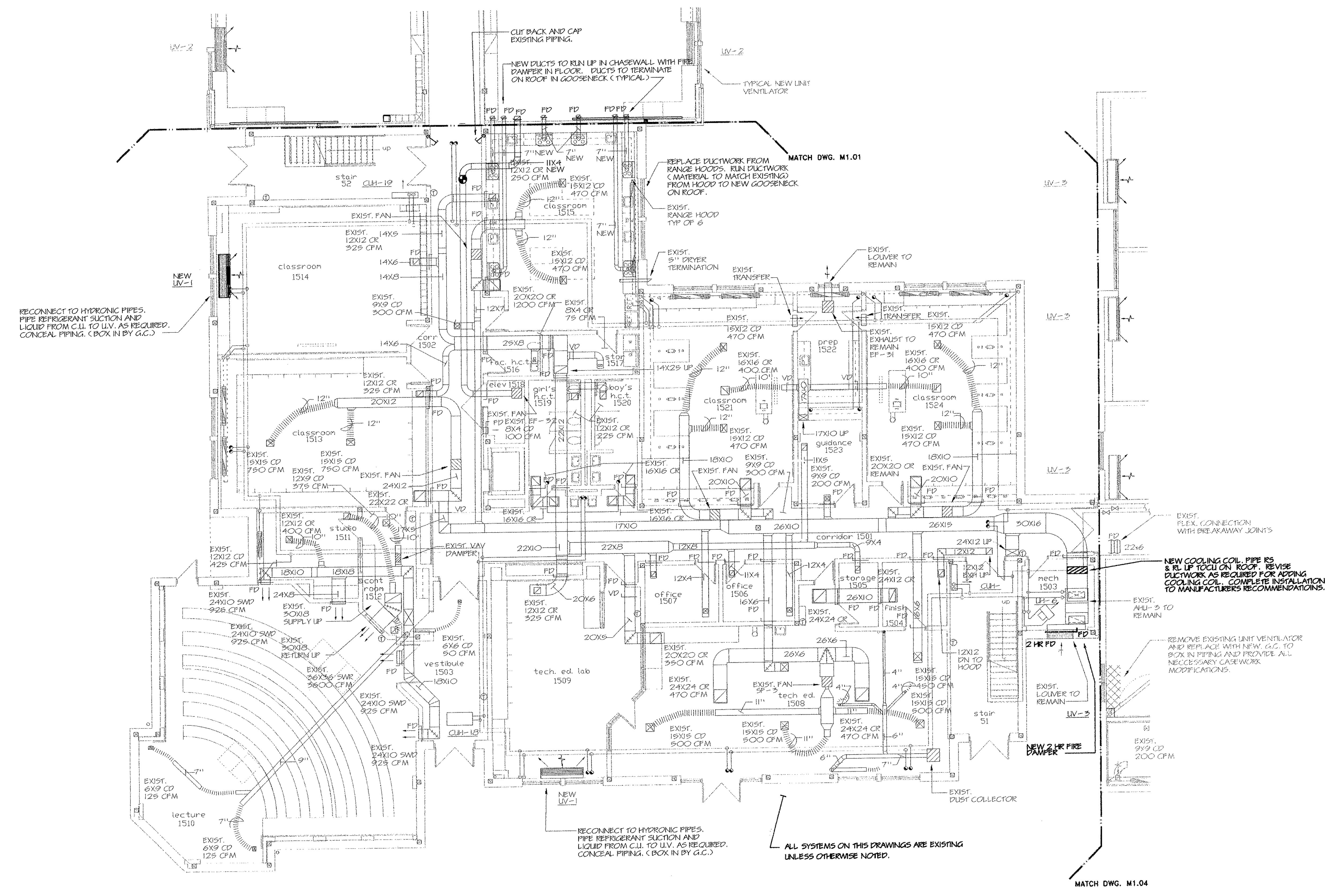
46 Slater Rd. New Britain, Connecticut 06050-2590 (203) 259-0361
 Drawn by: P.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL FLOOR PLAN AREA E

Project no. 45110 Drawing no.

M1.05

Date: DECEMBER 16, 1998

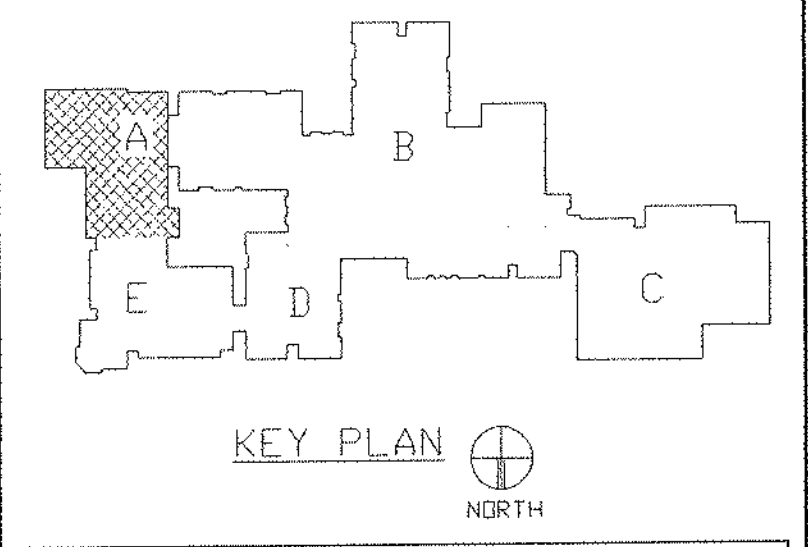


1 MECHANICAL MAIN LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES:
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 - EXISTING ELECTRIC HEATING SYSTEM TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING DUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.

ALL SYSTEMS ON THIS DRAWINGS ARE EXISTING UNLESS OTHERWISE NOTED.

MATCH DWG. M1.04

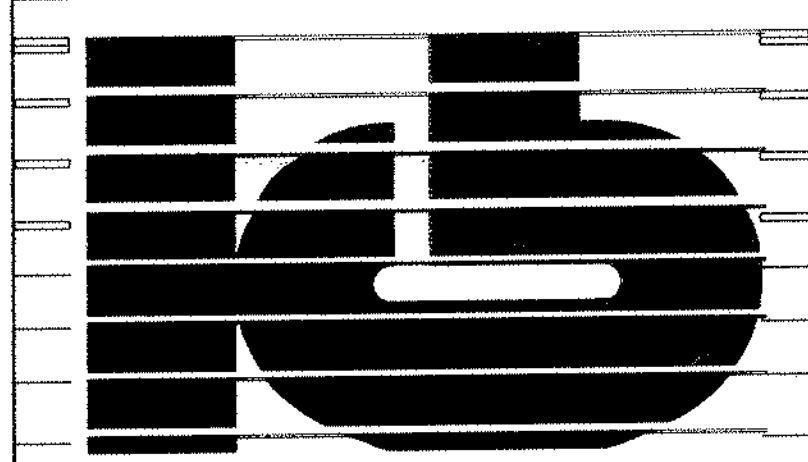


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DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWING ISSUED FOR STATE DEPT. OF EDUCATIONAL REVIEW
OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



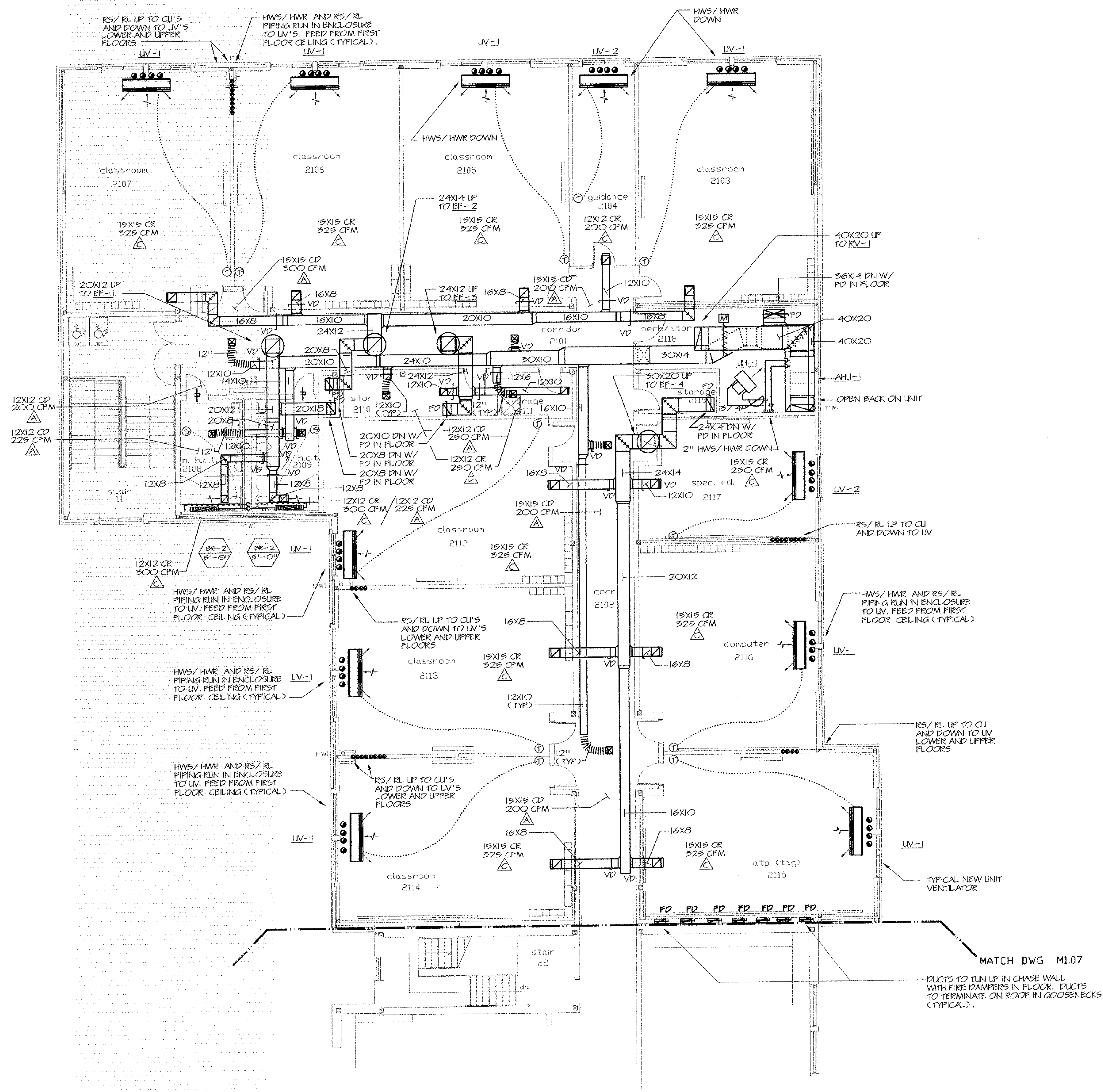
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

48 Slater Rd. New Britain, Connecticut 06050-2500 (203) 229-0361
 Drawn by: R.L. Scale: AS NOTED

MECHANICAL UPPER LEVEL FLOOR PLAN AREA A

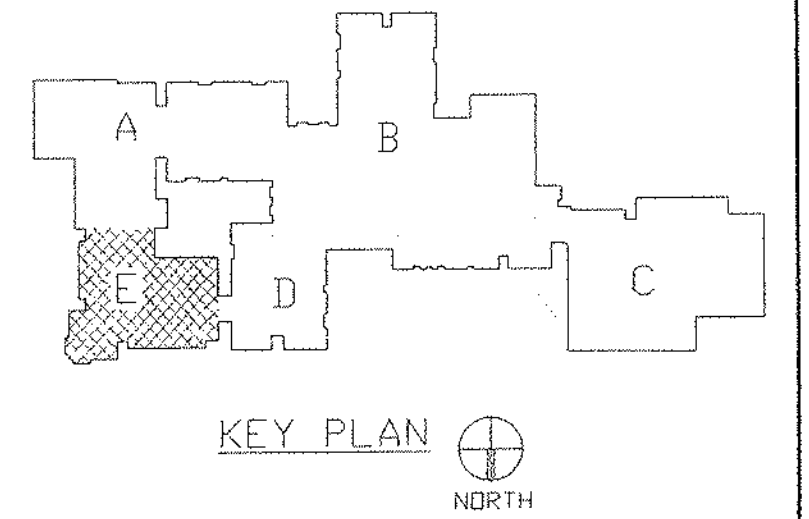
Project no. 43110 Drawing no.

Date: DECEMBER 16, 1998 **M1.06**



1 MECHANICAL UPPER LEVEL FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

- NOTES:
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 - EXISTING ELECTRIC HEATING SYSTEM TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING DUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.

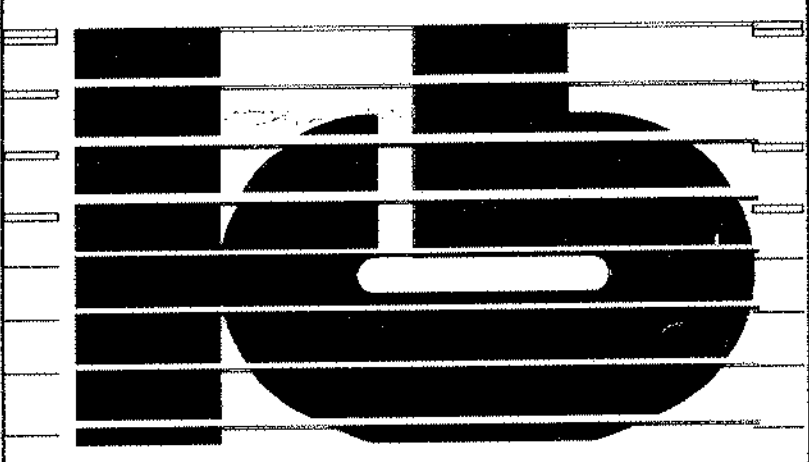


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ADDITIONS AND RENOVATIONS TO THE
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BROOKFIELD CONNECTICUT
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 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
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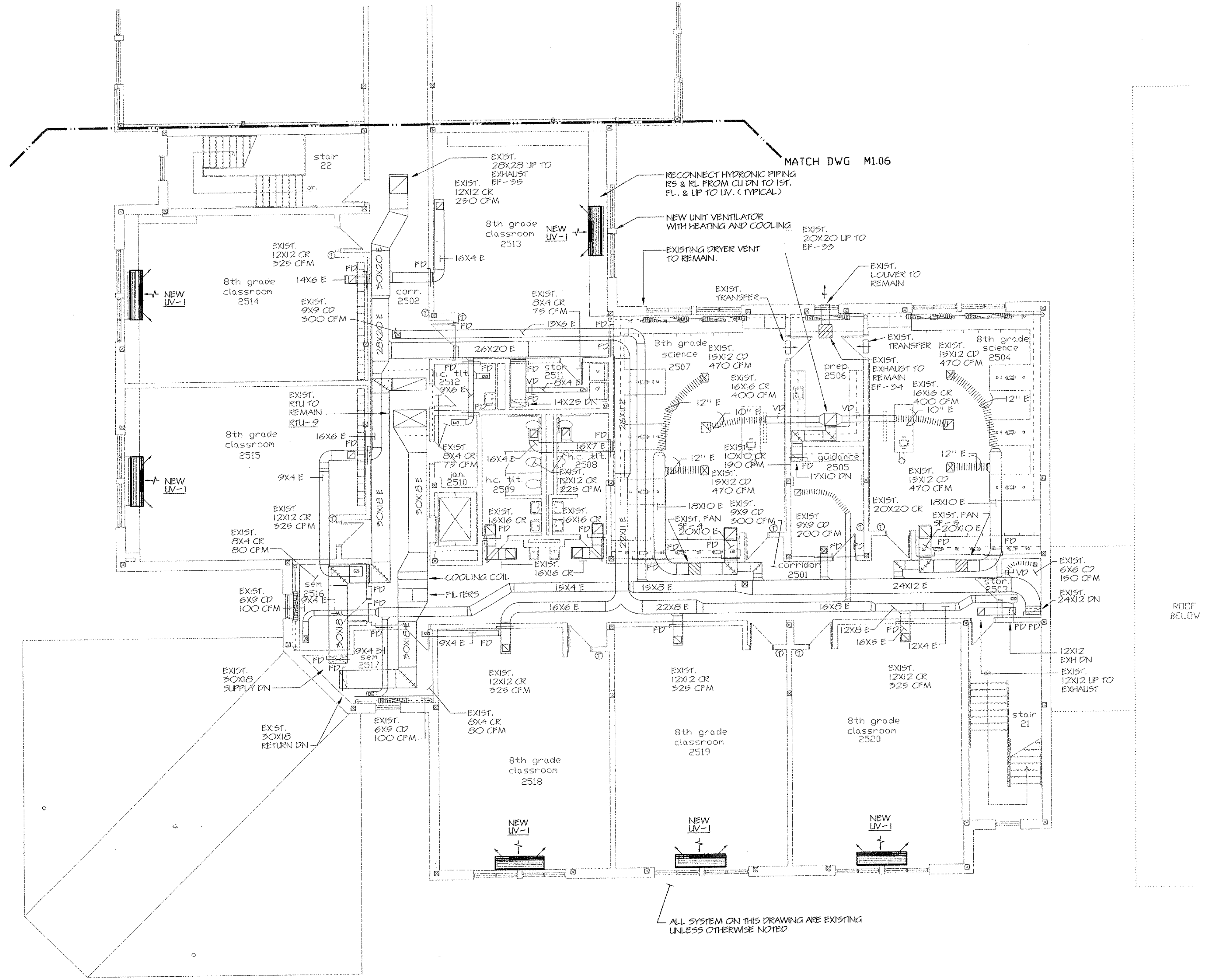


KAESTLE BOOS ASSOCIATES, INC.
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416 State St., New Britain, Connecticut 06050-2960 (203) 229-0361
 Drawn by: RL. Scale: AS NOTED

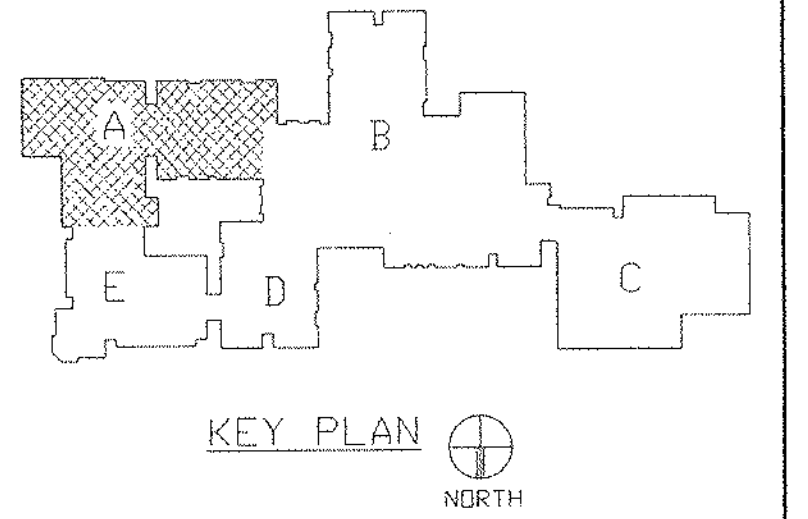
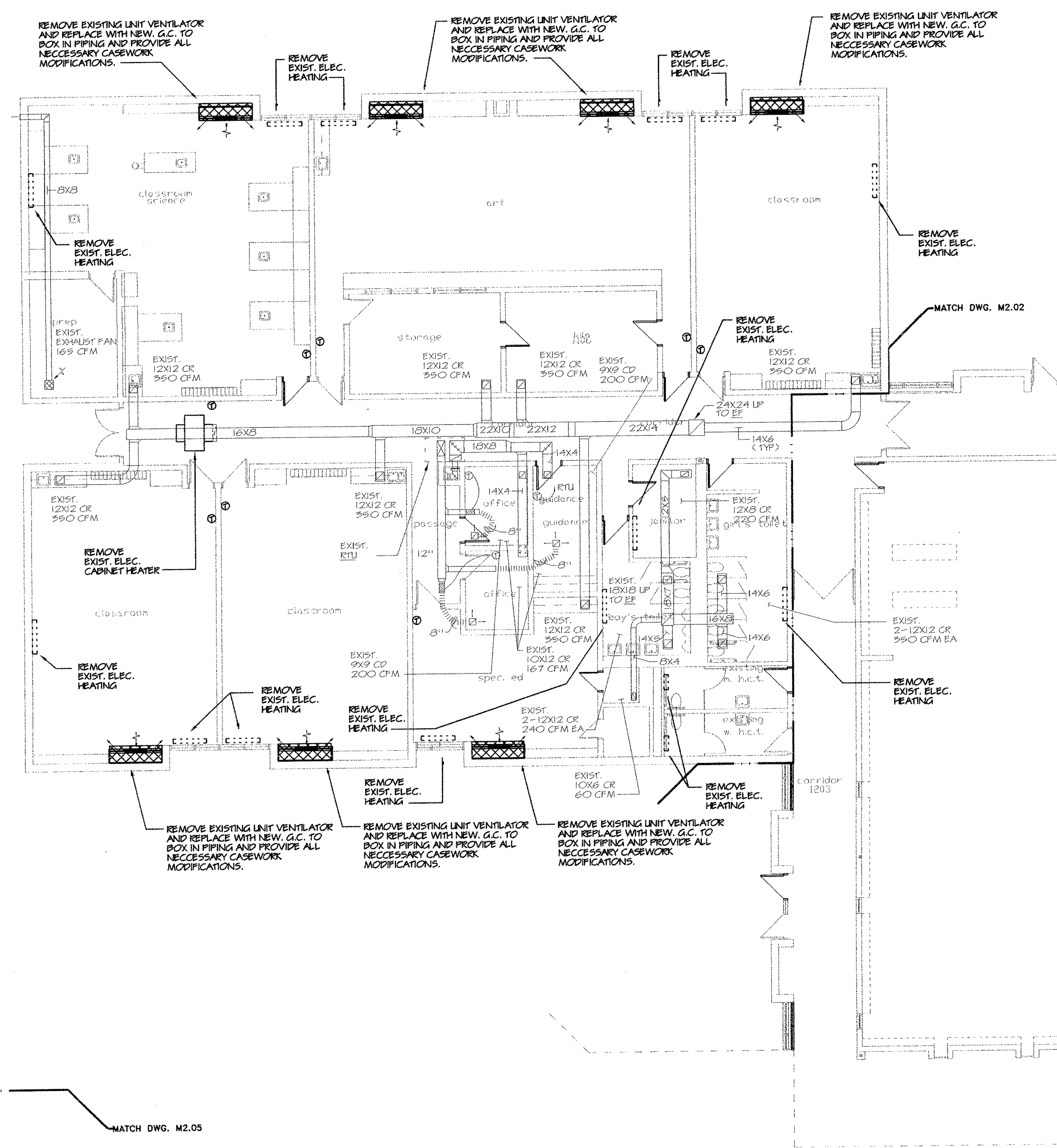
MECHANICAL UPPER LEVEL FLOOR PLAN AREA E

Project no. 45110 Drawing no. **M1.07**
 Date: DECEMBER 16, 1998



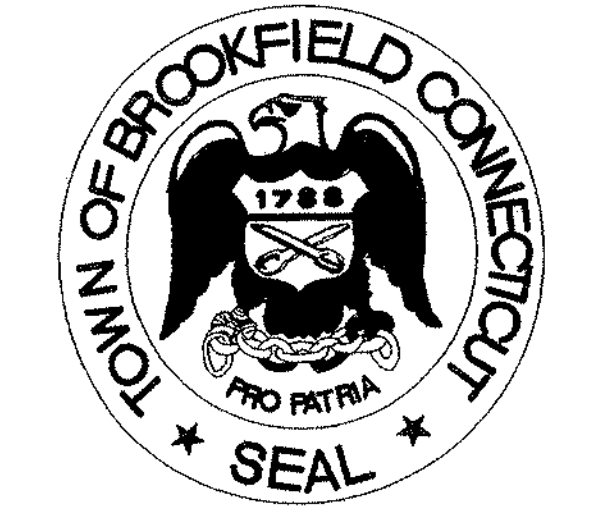
MECHANICAL UPPER LEVEL FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES:**
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 - EXISTING ELECTRIC HEATING SYSTEM TO BE REPLACED WITH NEW HYDRONIC HEATING SYSTEMS. SOME EXISTING DUCTWORK SYSTEMS TO REMAIN. CONTRACTOR TO COORDINATE INSTALLATION OF NEW SYSTEM WITH EXISTING TO REMAIN.



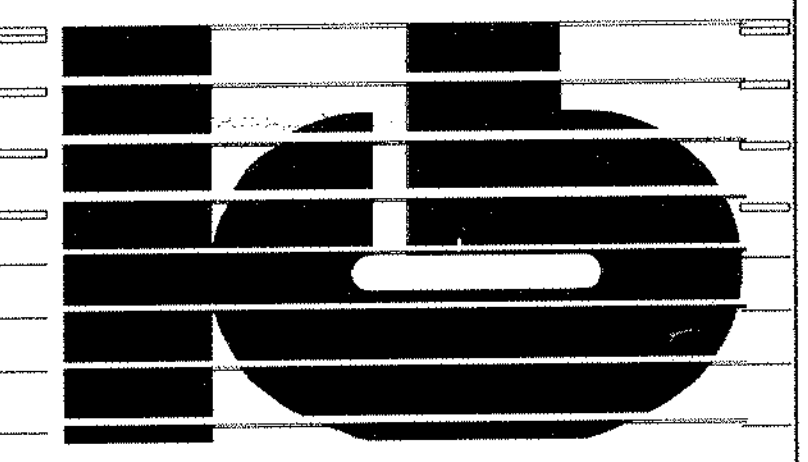
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ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT
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 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
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KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

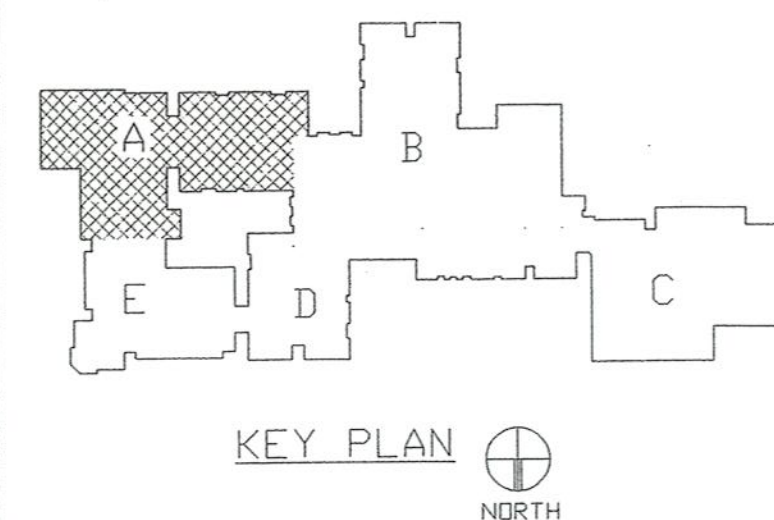
416 State Rd, New Britain, Connecticut 06050-2590 (203) 229-0381
 Drawn by: R.L. Scale: AS NOTED

MECHANICAL MAIN LEVEL DEMOLITION FLOOR PLAN AREA A

Project no. 45110 Drawing no. **M2.01**
 Date: DECEMBER 16, 1998

1 MECHANICAL DEMOLITION MAIN LEVEL FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

- NOTES:
- SEE SYMBOLS, SCHEDULES, NOTES AND DETAILS.
 - FOR REPLACED UNIT VENTILATORS G.C. TO BOX IN PIPING AND PROVIDE ALL NECESSARY CASEWORK MODIFICATIONS.
 - DEMOLITION PLANS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO REMOVE ALL SUPERSEDED EQUIPMENT.



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WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
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 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

AS BUILT

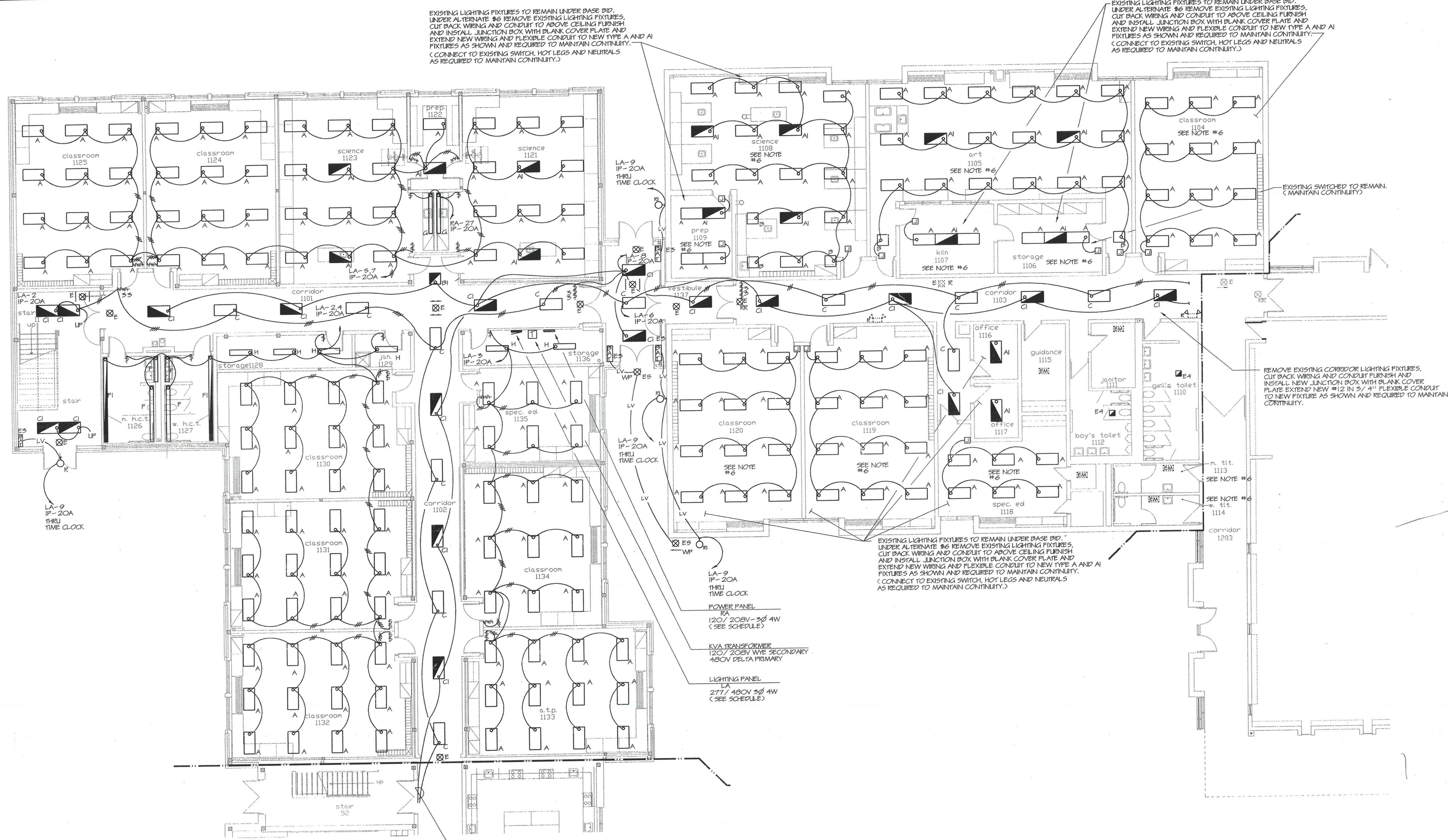
WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
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KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 Sater Rd. New Britain, Connecticut 06050-2900 (203) 229-0361
 Drawn by: P.P. Scale: AS NOTED

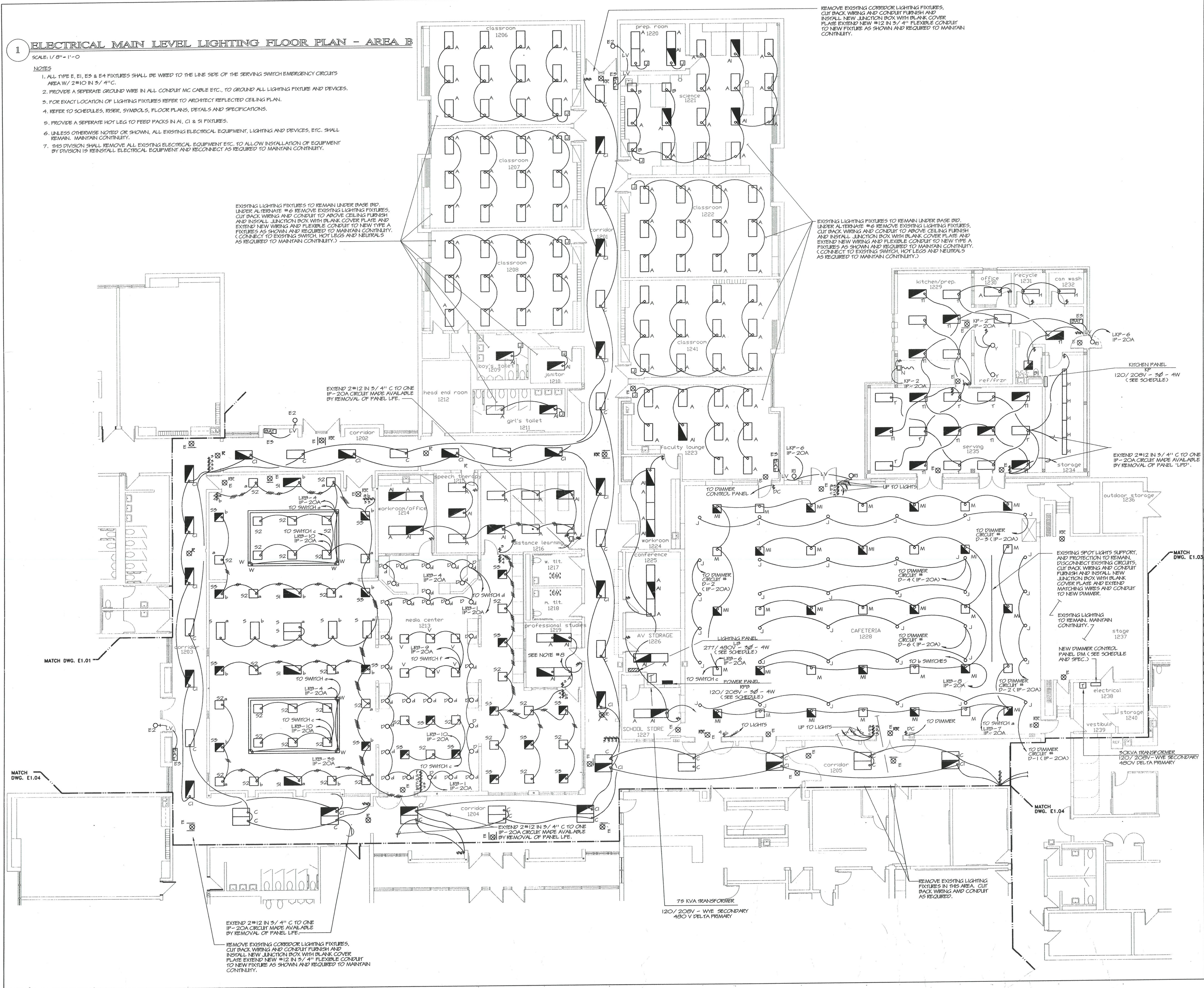
ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA A
 Project no. 45110 Drawing no. **E1.01**
 Date: DECEMBER 16, 1998



1 ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA B

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

- NOTES**
1. ALL TYPE E, EI, E3 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SERVING SWITCH EMERGENCY CIRCUITS AREA W/ 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. PROVIDE A SEPARATE HOT LEG TO FEED PACKS IN AI, CI & SI FIXTURES.
 6. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.
 7. THIS DIVISION SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ETC. TO ALLOW INSTALLATION OF EQUIPMENT BY DIVISION 15 REINSTALL ELECTRICAL EQUIPMENT AND RECONNECT AS REQUIRED TO MAINTAIN CONTINUITY.



REMOVE EXISTING CORRIDOR LIGHTING FIXTURES, CUT BACK WIRING AND CONDUIT FURNISH AND INSTALL NEW JUNCTION BOX WITH BLANK COVER PLATE EXTEND NEW #12 IN 3/4" FLEXIBLE CONDUIT TO NEW FIXTURE AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY.

EXISTING LIGHTING FIXTURES TO REMAIN UNDER BASE BID, UNDER ALTERNATE #6 REMOVE EXISTING LIGHTING FIXTURES, CUT BACK WIRING AND CONDUIT TO ABOVE CEILING FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER PLATE AND EXTEND NEW WIRING AND FLEXIBLE CONDUIT TO NEW TYPE A FIXTURES AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY. (CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.)

EXISTING LIGHTING FIXTURES TO REMAIN UNDER BASE BID, UNDER ALTERNATE #6 REMOVE EXISTING LIGHTING FIXTURES, CUT BACK WIRING AND CONDUIT TO ABOVE CEILING FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER PLATE AND EXTEND NEW WIRING AND FLEXIBLE CONDUIT TO NEW TYPE A FIXTURES AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY. (CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.)

EXTEND 2#12 IN 3/4" C TO ONE IP-20A CIRCUIT MADE AVAILABLE BY REMOVAL OF PANEL LIFE.

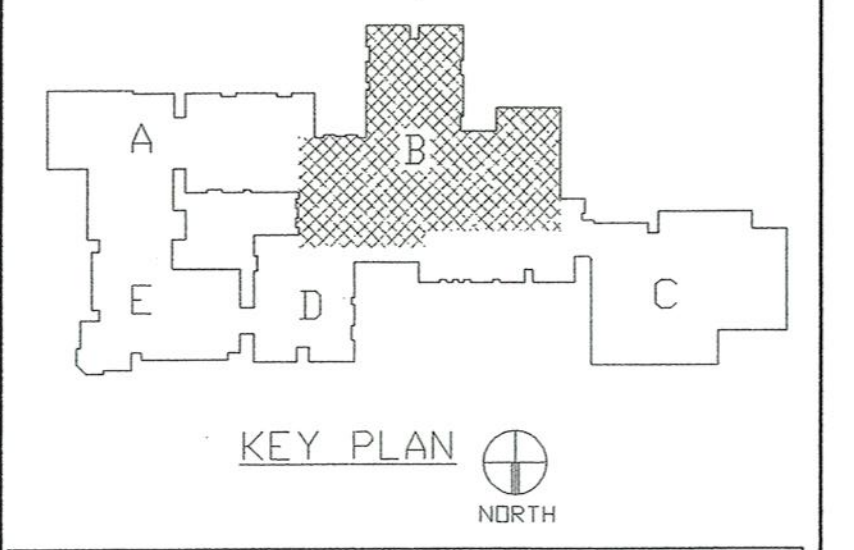
EXTEND 2#12 IN 3/4" C TO ONE IP-20A CIRCUIT MADE AVAILABLE BY REMOVAL OF PANEL LIFE.

EXTEND 2#12 IN 3/4" C TO ONE IP-20A CIRCUIT MADE AVAILABLE BY REMOVAL OF PANEL LIFE.

EXTEND 2#12 IN 3/4" C TO ONE IP-20A CIRCUIT MADE AVAILABLE BY REMOVAL OF PANEL LIFE.

REMOVE EXISTING CORRIDOR LIGHTING FIXTURES, CUT BACK WIRING AND CONDUIT FURNISH AND INSTALL NEW JUNCTION BOX WITH BLANK COVER PLATE EXTEND NEW #12 IN 3/4" FLEXIBLE CONDUIT TO NEW FIXTURE AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY.

REMOVE EXISTING LIGHTING FIXTURES IN THIS AREA, CUT BACK WIRING AND CONDUIT AS REQUIRED.



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ADDITIONS AND REVISIONS TO THE
WHICONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHICONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



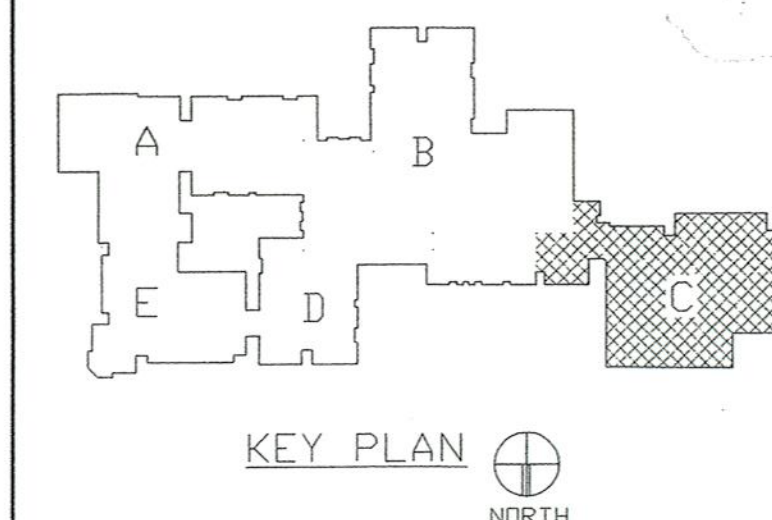
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2500 (203) 229-0361
 Drawn by: P.P.P. Scale: AS NOTED

ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN AREA B

Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **E1.02**



REVISIONS		
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ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

37 Outside Lights
 AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

48 Slaters Rd., New Britain, Connecticut 06050-2500 (203) 229-0361
 Drawn by: P.P.P. Scale: AS NOTED

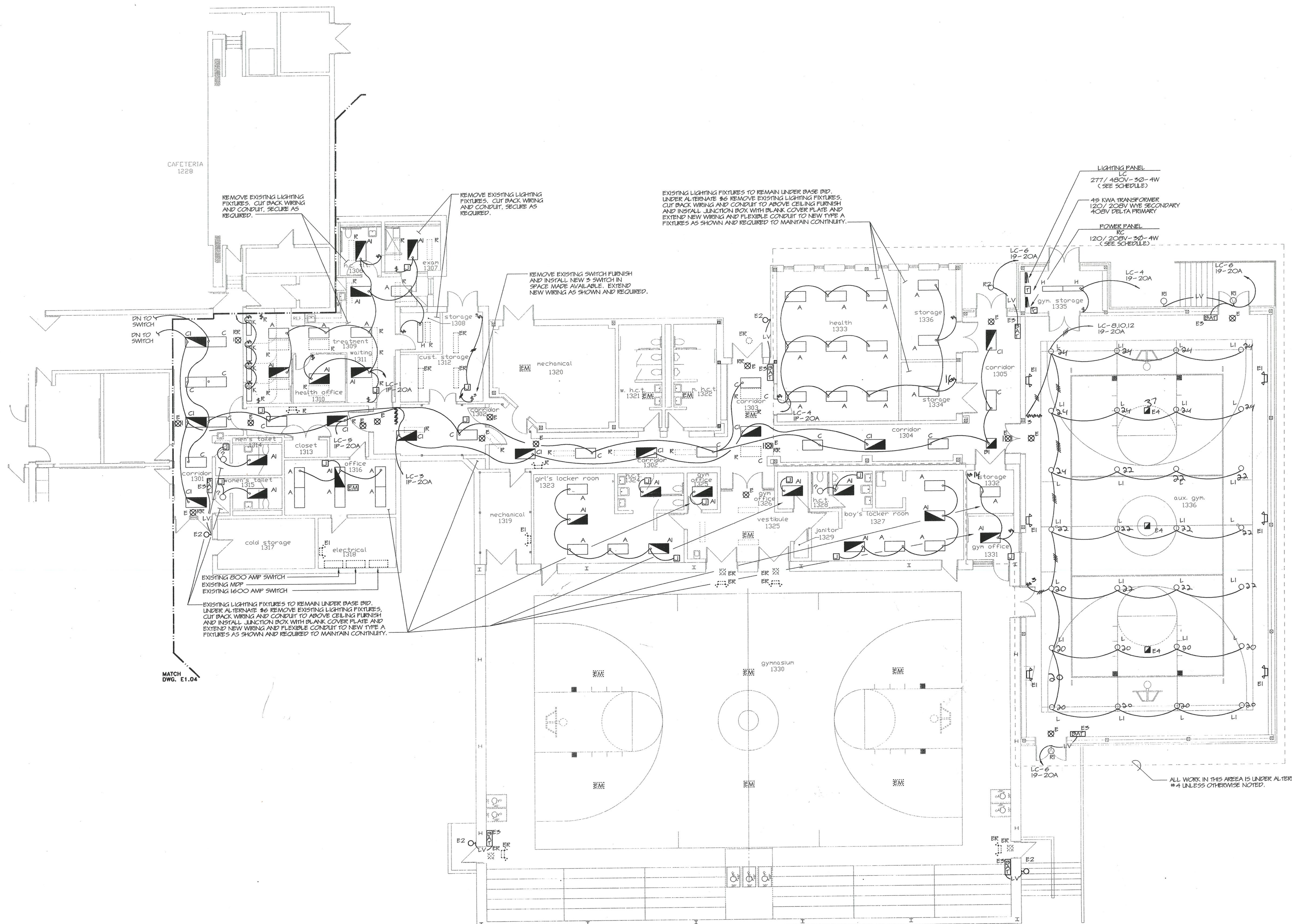
ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN AREA C

Project no. 43110

Drawing no.

Date: DECEMBER 16, 1998

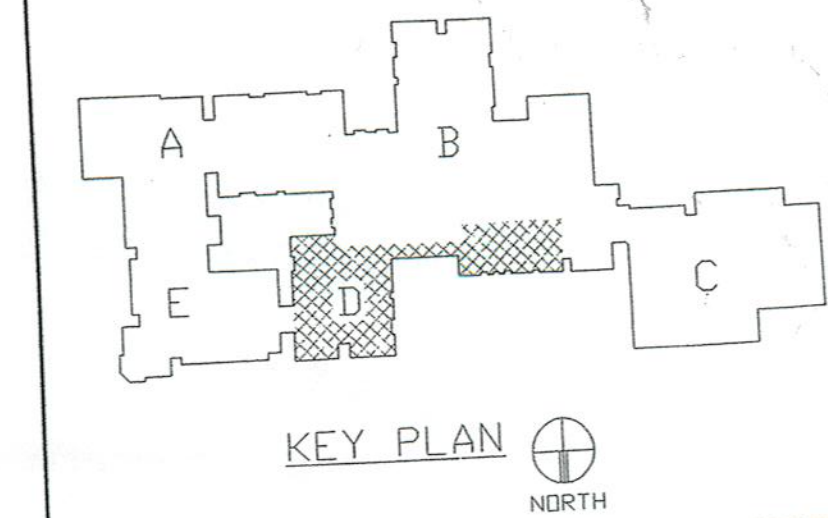
E1.03



1 ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA C

- SCALE: 1/8" = 1'-0"
- NOTES
1. ALL TYPE E, E1, E3 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SERVING SWITCH EMERGENCY CIRCUITS AREA W/ 2"X10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, REBAR SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. PROVIDE A SEPARATE HOT LEG TO FEED PACKS IN A1, B1, C1 & P1 FIXTURES.
 6. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.
 7. THIS DIVISION SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ETC. TO ALLOW INSTALLATION OF EQUIPMENT BY DIVISION 15 REINSTALL ELECTRICAL EQUIPMENT AND RECONNECT AS REQUIRED TO MAINTAIN CONTINUITY.

MATCH DWG. E1.04



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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

416 Slater Rd., New Britain, Connecticut 06050-2500 (203) 229-0361
 Drawn by: P.P.P. Scale: AS NOTED

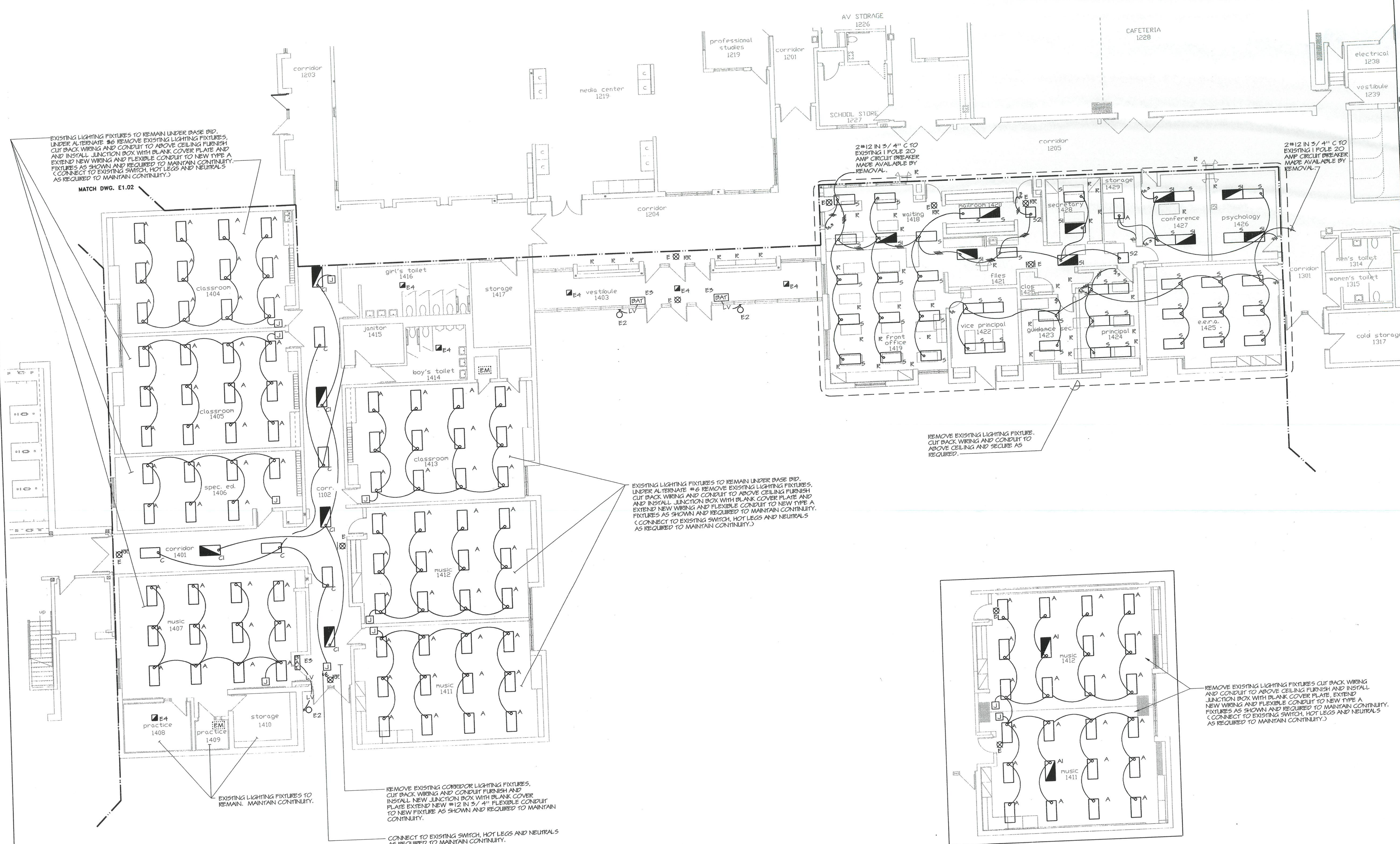
ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN AREA D

Project no. 49110

Drawing no.

DATE: DECEMBER 16, 1998

E1.04



1 ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA D
 SCALE: 1/8" = 1'-0"

- NOTES**
1. ALL TYPE E, E1, E3 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SERVING SWITCH EMERGENCY CIRCUITS AREA W/ 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. PROVIDE A SEPARATE HOT LEG TO FEED PACKS IN A1, C1 & S1 FIXTURES.
 6. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.
 7. THIS DIVISION SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ETC. TO ALLOW INSTALLATION OF EQUIPMENT BY DIVISION 15 REINSTALL ELECTRICAL EQUIPMENT AND RECONNECT AS REQUIRED TO MAINTAIN CONTINUITY.

2 ALTERNATE NO. 2
 SCALE: 1/8" = 1'-0"

- NOTES**
1. ALL TYPE E FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SWITCH SERVING THE AREA LIGHTING WITH 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.

EXISTING LIGHTING FIXTURES TO REMAIN UNDER BASE BID. UNDER ALTERNATE #6 REMOVE EXISTING LIGHTING FIXTURES. CUT BACK WIRING AND CONDUIT TO ABOVE CEILING FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER PLATE AND EXTEND NEW WIRING AND FLEXIBLE CONDUIT TO NEW TYPE A FIXTURES AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY. (CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.)

MATCH DWG. E1.02

2#12 IN 3/4" C TO EXISTING 1 POLE 20 AMP CIRCUIT BREAKER MADE AVAILABLE BY REMOVAL.

2#12 IN 3/4" C TO EXISTING 1 POLE 20 AMP CIRCUIT BREAKER MADE AVAILABLE BY REMOVAL.

REMOVE EXISTING LIGHTING FIXTURE. CUT BACK WIRING AND CONDUIT TO ABOVE CEILING AND SECURE AS REQUIRED.

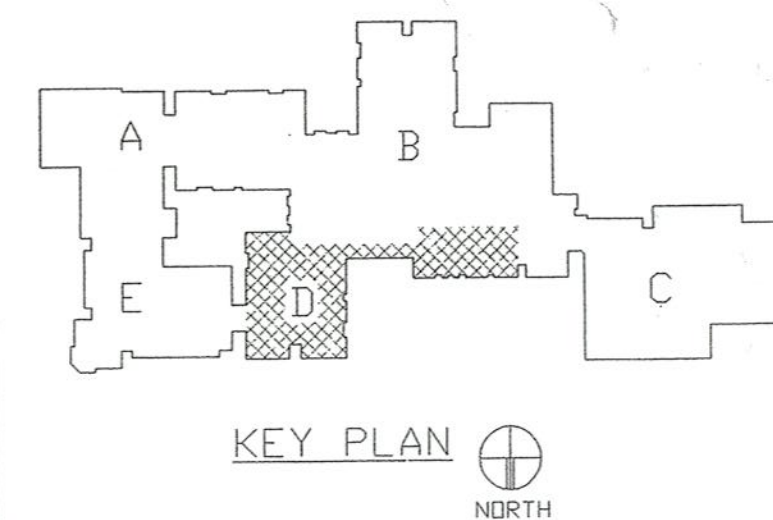
EXISTING LIGHTING FIXTURES TO REMAIN UNDER BASE BID. UNDER ALTERNATE #6 REMOVE EXISTING LIGHTING FIXTURES. CUT BACK WIRING AND CONDUIT TO ABOVE CEILING FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER PLATE AND EXTEND NEW WIRING AND FLEXIBLE CONDUIT TO NEW TYPE A FIXTURES AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY. (CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.)

EXISTING LIGHTING FIXTURES TO REMAIN. MAINTAIN CONTINUITY.

REMOVE EXISTING CORRIDOR LIGHTING FIXTURES. CUT BACK WIRING AND CONDUIT FURNISH AND INSTALL NEW JUNCTION BOX WITH BLANK COVER PLATE EXTEND NEW #12 IN 3/4" FLEXIBLE CONDUIT TO NEW FIXTURE AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY.

CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.

REMOVE EXISTING LIGHTING FIXTURES CUT BACK WIRING AND CONDUIT TO ABOVE CEILING FURNISH AND INSTALL JUNCTION BOX WITH BLANK COVER PLATE. EXTEND NEW WIRING AND FLEXIBLE CONDUIT TO NEW TYPE A FIXTURES AS SHOWN AND REQUIRED TO MAINTAIN CONTINUITY. (CONNECT TO EXISTING SWITCH, HOT LEGS AND NEUTRALS AS REQUIRED TO MAINTAIN CONTINUITY.)



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ADDITIONS AND RENOVATIONS TO THE
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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



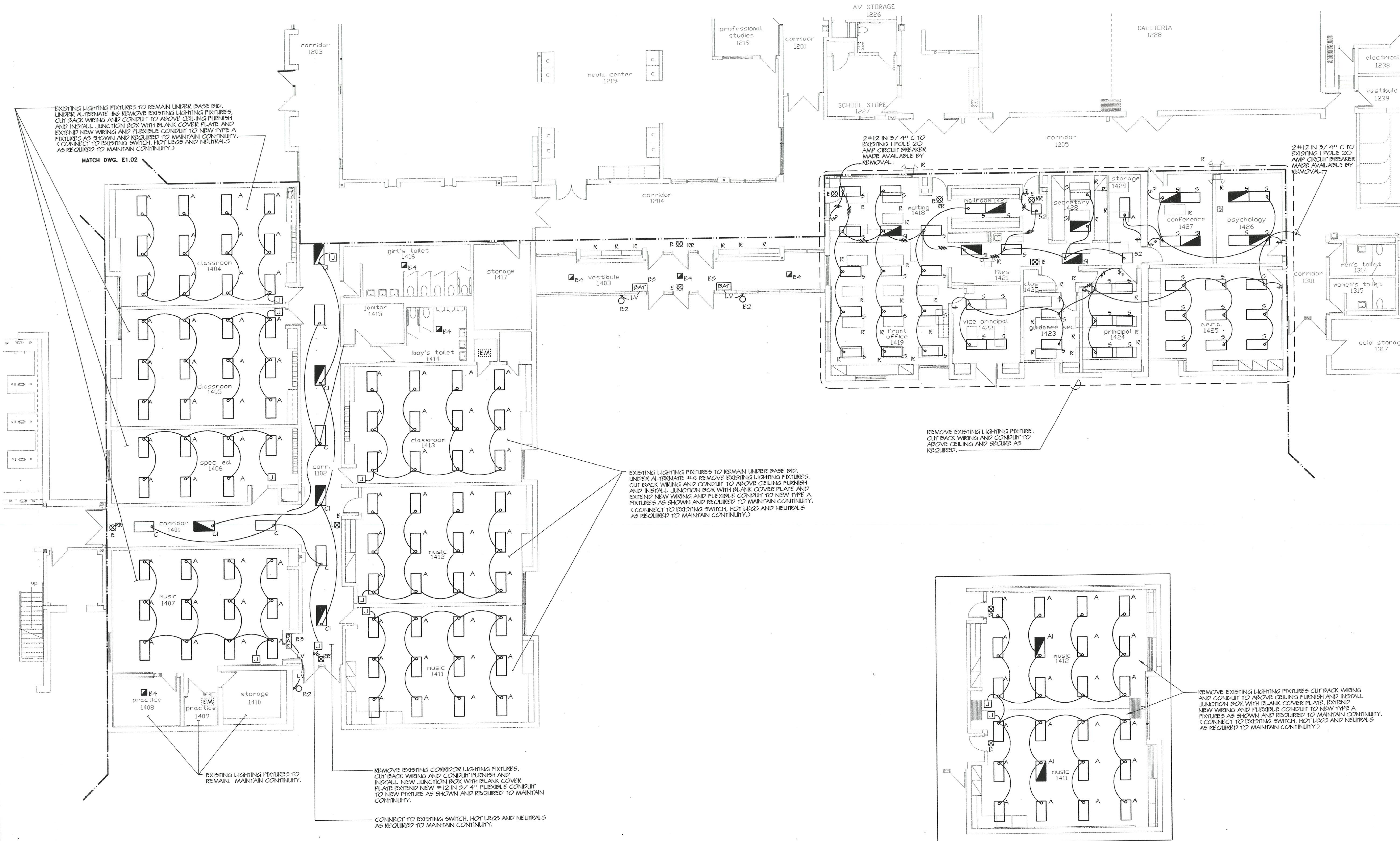
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 Stator Rd. New Britain, Connecticut 06050-2600 (203) 228-0381
 Drawn by: P.P. Scale: AS NOTED

ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN AREA D

Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **E1.04**

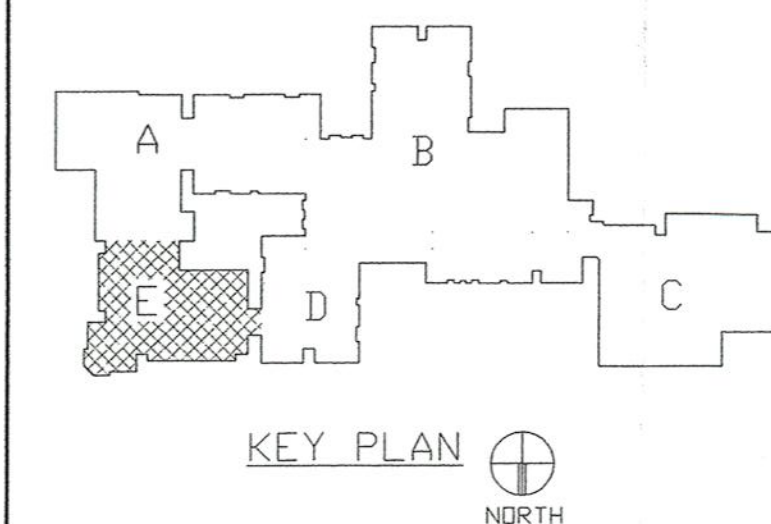


1 ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA D
 SCALE: 1/8" = 1'-0"

- NOTES**
1. ALL TYPE E, E1, E5 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SERVING SWITCH EMERGENCY CIRCUITS AREA W/ 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. PROVIDE A SEPARATE HOT LEG TO FEED PACKS IN A1, C1 & S1 FIXTURES.
 6. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.
 7. THIS DIVISION SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT ETC., TO ALLOW INSTALLATION OF EQUIPMENT BY DIVISION 15 REINSTALL ELECTRICAL EQUIPMENT AND RECONNECT AS REQUIRED TO MAINTAIN CONTINUITY.

2 ALTERNATE NO. 2
 SCALE: 1/8" = 1'-0"

- NOTES**
1. ALL TYPE E FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SWITCH SERVING THE AREA LIGHTING WITH 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. UNLESS OTHERWISE NOTED OR SHOWN, ALL EXISTING ELECTRICAL EQUIPMENT, LIGHTING AND DEVICES, ETC. SHALL REMAIN. MAINTAIN CONTINUITY.



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JANUARY 4, 1999		DRAWING ISSUED FOR STATE DEPT. OF EDUCATION REVIEW
OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES.



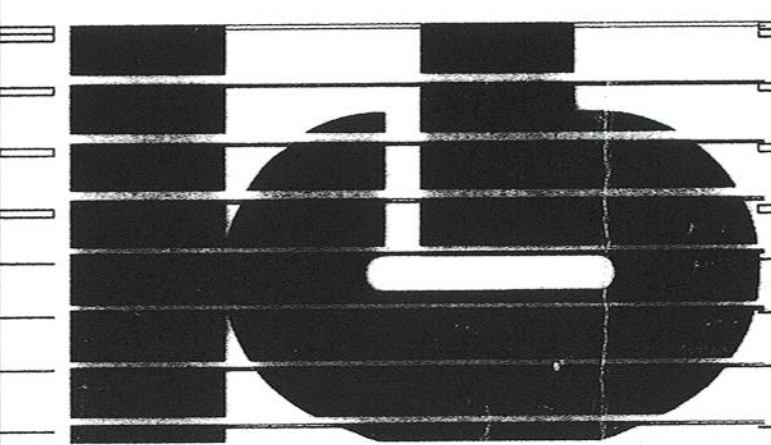
ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT

WHISCONIER ROAD
BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA
& 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.

CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516



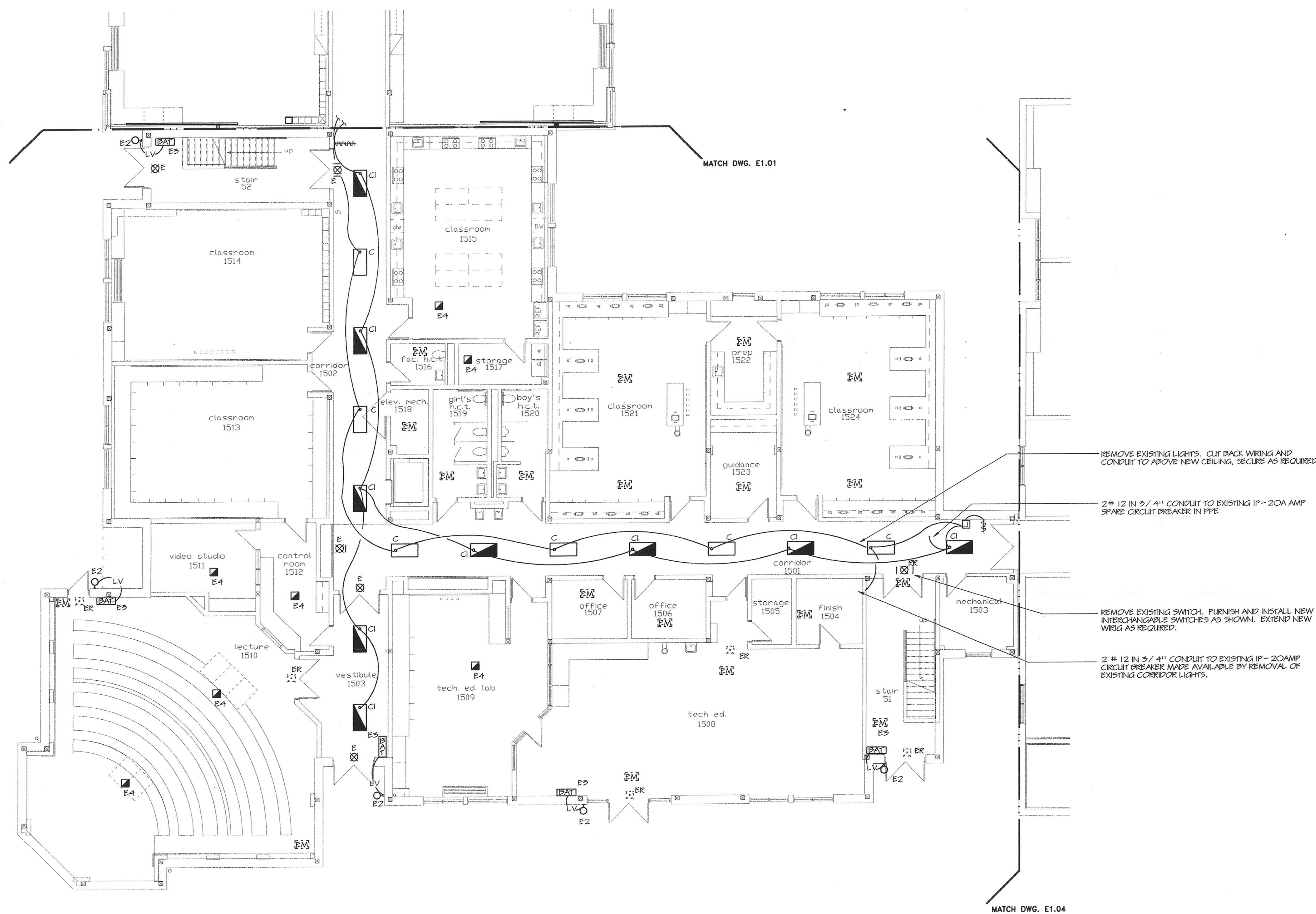
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

46 State Rd. New Britain, Connecticut 06050-2500 (203) 229-0361
Drawn by: P.P. Scale: AS NOTED

ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN AREA E

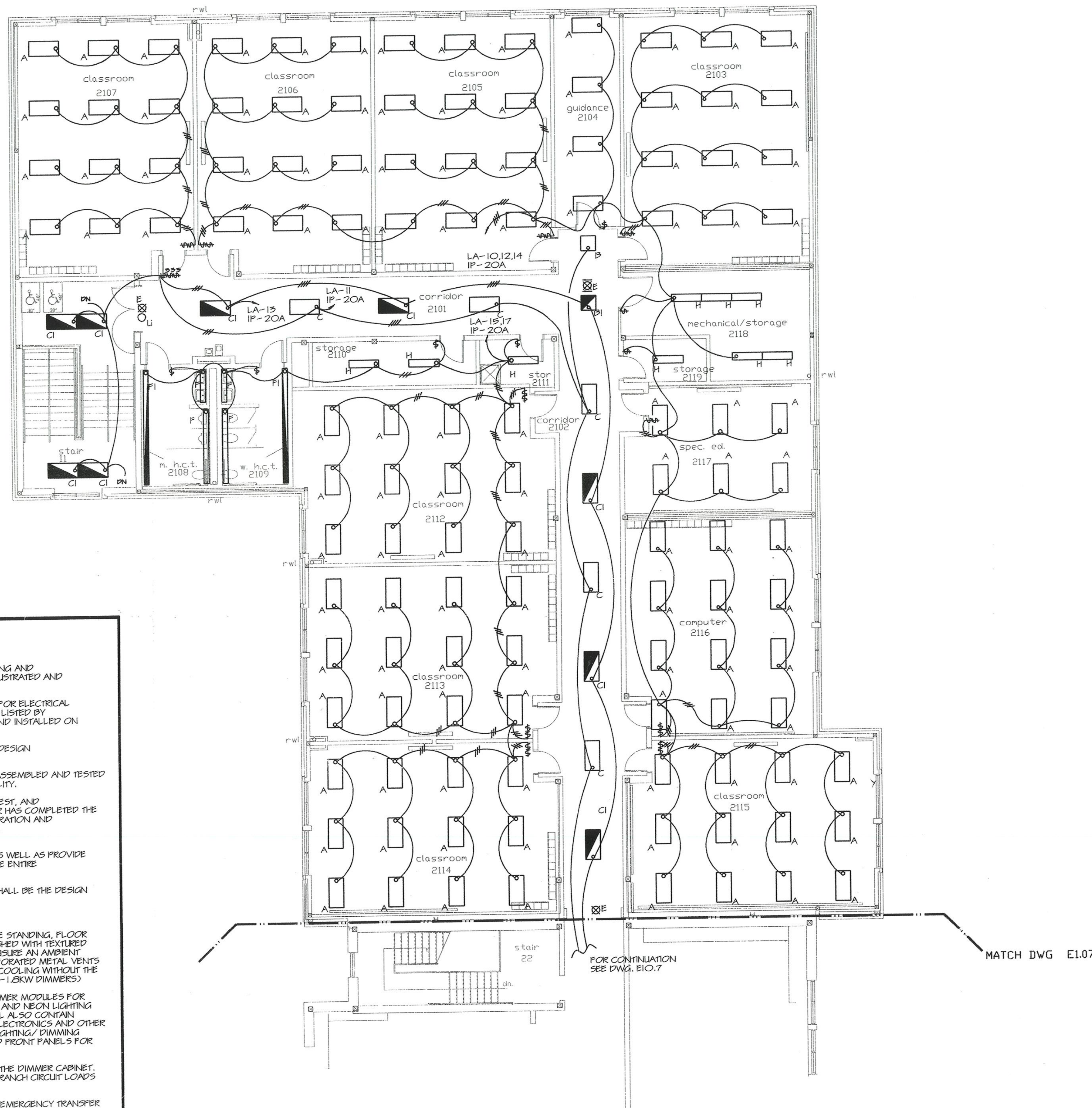
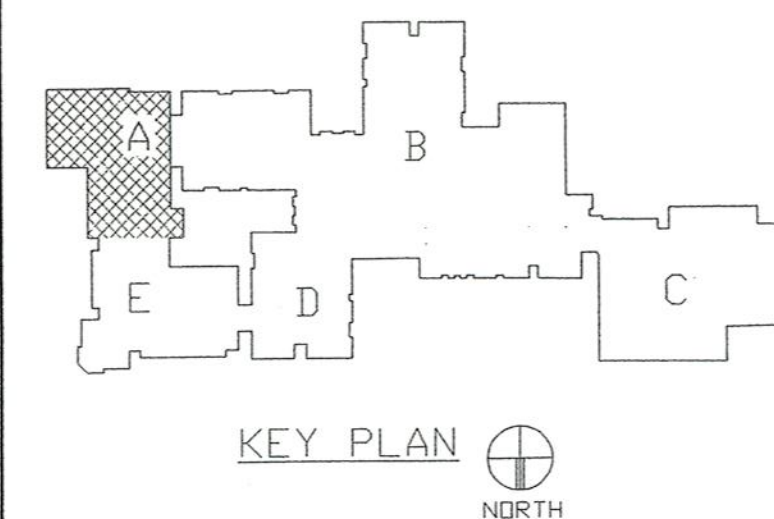
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **E1.05**



1 ELECTRICAL MAIN LEVEL LIGHTING FLOOR PLAN - AREA E
SCALE: 1/8" = 1'-0"

1. ALL TYPE E, E1, E3 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SERVING SWITCH EMERGENCY CIRCUITS AREA W/ 2#10 IN 3/4" C.
2. PROVIDE A SEPERATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.



DIMMING SYSTEM SPECIFICATION

DIMMING SYSTEM:

- FURNISH AND INSTALL ALL LABOR AND MATERIAL AS REQUIRED TO INSURE PROPER HANDLING AND INSTALLATION OF THE LIGHTING/DIMMING CONTROL SYSTEM AS SPECIFIED HEREIN OR ILLUSTRATED AND SCHEDULED ON THE FINAL APPROVED CONTRACT DRAWINGS.
- THE LIGHTING/DIMMING CONTROL SYSTEM ASSEMBLY, COMPLETE FACTORY PRE-WIRED FOR ELECTRICAL CONTRACTOR'S FINAL FEEDERS, BRANCH LOADS AND CONTROL CONNECTIONS, SHALL BE LISTED BY UNDERWRITERS' LABORATORIES, INC. AND SHALL BEAR THE UL "L" LABEL WHEN DELIVERED AND INSTALLED ON THE PROJECT SITE.
- THE EQUIPMENT SHALL BE OF THE HIGHEST QUALITY AND WORKMANSHIP WITH THE LATEST DESIGN COMPONENTS.
- THE ENTIRE LIGHTING/DIMMING CONTROL EQUIPMENT SHALL BE COMPLETELY FACTORY ASSEMBLED AND TESTED UNDER FULL LOAD CONDITION AS A SYSTEM BEFORE LEAVING THE MANUFACTURER'S FACILITY.
- THE MANUFACTURER SHALL PROVIDE A QUALIFIED SERVICE REPRESENTATIVE TO INSPECT, TEST, AND ENERGIZE THE LIGHTING/DIMMING CONTROL SYSTEM AFTER THE ELECTRICAL CONTRACTOR HAS COMPLETED THE INSTALLATION OF ALL THE ASSOCIATED EQUIPMENT. AT THE SAME TIME, THE PROPER OPERATION AND INSTRUCTION MANUALS AND "AS-BUILT" DRAWINGS SHALL BE PROVIDED TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL ACCEPT DELIVERY AND INSTALL SUCH EQUIPMENT, AS WELL AS PROVIDE THE INTERCONNECTING WIRING BETWEEN THE BASIC COMPONENTS, IN ORDER TO MAKE THE ENTIRE LIGHTING/DIMMING SYSTEM OPERABLE.
- THE LIGHTING/DIMMING CONTROL SYSTEM SPECIFIED HEREIN IN TERMS OF EQUIPMENT SHALL BE THE DESIGN AND PRODUCT OF ALM SYSTEMS, INC. APR4-1B 4 SCENE 1B CHANNEL.

DIMMER CABINET:

- THE DIMMER CABINET SHALL BE LOCATED AS INDICATED ON DRAWINGS. IT SHALL BE FREE STANDING, FLOOR MOUNTED OR SURFACE WALL MOUNTED, FABRICATED OF CODE GAUGE SHEET STEEL, FINISHED WITH TEXTURED ENAMEL, BASED ON. THE CABINET SHALL BE LOCATED IN A WELL VENTILATED AREA TO INSURE AN AMBIENT TEMPERATURE NOT TO EXCEED 90 DEGREES CENTIGRADE. THE CABINET SHALL HAVE PERFORATED METAL VENTS ON THE TOP AND BOTTOM OF THE FRONT COVERED PANELS FOR NATURAL CONVECTION COOLING WITHOUT THE AID OF FORCED AIR VENTILATION BY MEANS OF A FAN. (APR4-1B WITH 14-1.2KW AND 4-1.2KW DIMMERS)
- THE DIMMER CABINET SHALL CONTAIN "AB11" AND/OR "AB11M" SERIES ELECTRONIC DIMMER MODULES FOR INCANDESCENT, LOW VOLTAGE FLUORESCENT, COMPACT FLUORESCENT COLD CATHODE AND NEON LIGHTING LOADS, WITH DIMMER PROTECTION AND BRANCH CIRCUIT BREAKERS AS REQUIRED. IT SHALL ALSO CONTAIN ALL THE ASSOCIATED LOW VOLTAGE CONTROL TRANSFORMERS, D.C. POWER SUPPLIES, ELECTRONICS AND OTHER MISCELLANEOUS PROTECTIVE DEVICES AS REQUIRED TO MAKE A COMPLETE OPERATING LIGHTING/DIMMING CONTROL SYSTEM. THE CABINET SHALL BE DESIGNED WITH REMOVABLE AND/OR HINGED FRONT PANELS FOR FRONT ACCESSIBLE TO THE DIMMER MODULES AND RELATED COMPONENTS.
- ALL HIGH AND LOW VOLTAGE INTERCONNECTING TERMINALS SHALL BE ISOLATED WITHIN THE DIMMER CABINET. ADEQUATE SPACE/AREA SHALL BE PROVIDED FOR INCOMING FEEDERS AND OUTGOING BRANCH CIRCUIT LOADS AND CONTROLS AT ONE END OF THE CABINET.
- ALL DESIGNATED EMERGENCY LIGHTING CIRCUITS SHALL BE CONNECTED TO AN AUTO-EMERGENCY TRANSFER SYSTEM COMPLETE WITH NORMAL LINE VOLTAGE MONITOR, LOCATED IN A SEPARATE ENCLOSURE, MOUNTED WITHIN THE DIMMER CABINET ISOLATED FROM NORMAL POWER AS SPECIFIED BY NATIONAL ELECTRICAL CODE.

CONTROL STATIONS:

- FANTASY I/2 SERIES PRESET CONTROL STATION SHALL BE PROVIDED AT THE LOCATIONS INDICATED ON THE DRAWINGS. THE FANTASY SERIES CONTROL STATION SHALL UTILIZE LOW VOLTAGE DEVICES AND CONTROL BOARDS INTEGRALLY MOUNTED TO THE FACE PLATE PROVIDING A UNIT ASSEMBLY WITH DISCONNECT PLUG FOR EASE OF INSTALLATION AND MAINTENANCE.
- THE FANTASY PRESET PANEL SHALL CONTAIN ILLUMINATED L.E.D. SLIDER POTENTIOMETERS AND WORK LIGHT PROGRAMMER SWITCHES MOUNTED ON AN ANODIZED ALUMINUM PANEL BEHIND SECURITY VIEWING LOCKED DOOR WITH PLAYBACK PUSH-BUTTON CONTROL SWITCHES AND ASSOCIATED L.E.D. CONTROL STATUS INDICATORS MOUNTED OUTSIDE THE DOOR FOR CONVENIENCE OF OPERATION. (1 REQUIRED)
- THE REMOTE PLAYBACK "FAN-R" SHALL BE PROVIDED AT LOCATIONS INDICATED ON THE DRAWINGS. THE FAN-R SHALL CONTAIN PUSH-BUTTON CONTROL SWITCHES WITH ASSOCIATED L.E.D. CONTROL STATUS INDICATORS MOUNTED ON A SINGLE GANG ANODIZED ALUMINUM SWITCH PLATE WITH HINGED VIEWING COVER. (1 REQUIRED)
- THE ENTRANCE ON/OFF REMOTE PLAYBACK CONTROL STATION SHALL BE PROVIDED AT LOCATIONS INDICATED ON THE DRAWINGS. THE ENTRANCE SHALL BE A SINGLE GANG ANODIZED ALUMINUM SWITCH PLATE CONTAINING ON/OFF PUSH-BUTTON CONTROL SWITCHES AND L.E.D. CONTROL STATUS INDICATORS. (2 REQUIRED)
- SYSTEM BYPASS SWITCH TO CONTROL FLUORESCENT CEILING LIGHTS IN CAFETERIA.

1 ELECTRICAL UPPER LEVEL LIGHTING FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

NOTES

- ALL TYPE E AND U FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SWITCH SERVING THE AREA EMERGENCY CIRCUITS AREA W/ 2#10 IN 3/4" C.
- PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
- FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
- REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
- PROVIDE A SEPARATE HOT LEG TO FEED PACKS IN CI & FI FIXTURES.

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 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

AS BUILT

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 CONSULTING ENGINEERS
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 AVON, CT 06001-0516

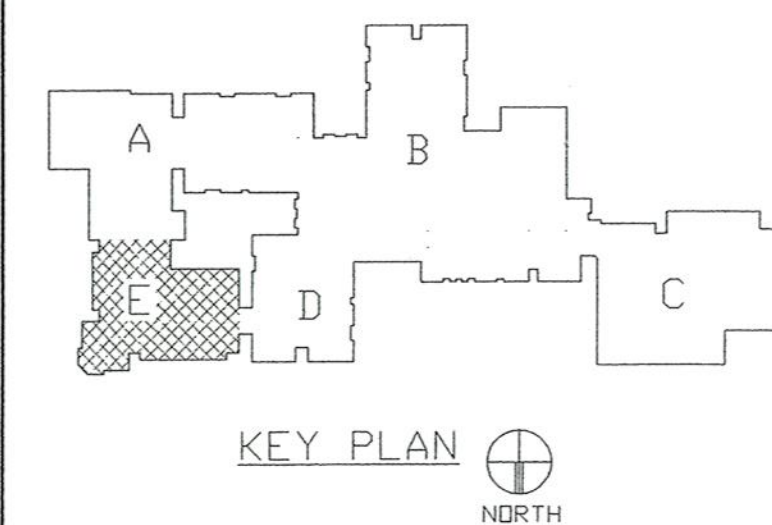


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ELECTRICAL UPPER LEVEL LIGHTING FLOOR PLAN - AREA A

Project no. 45110 Drawing no. **E1.06**
 Date DECEMBER 16, 1998



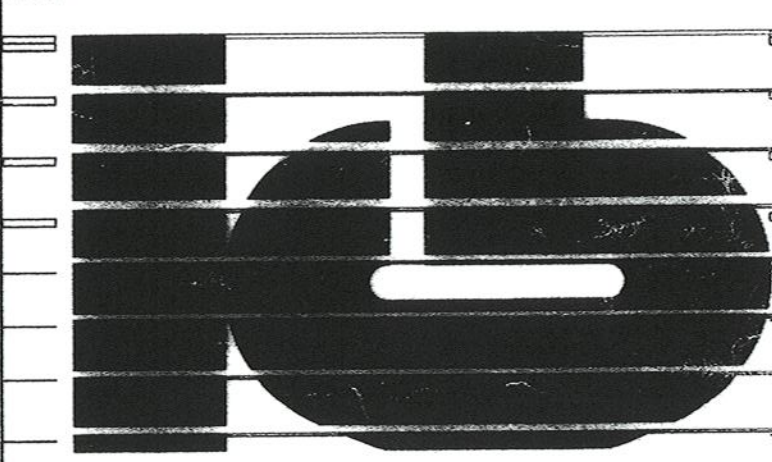
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WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
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 AVON, CT 06001-0516

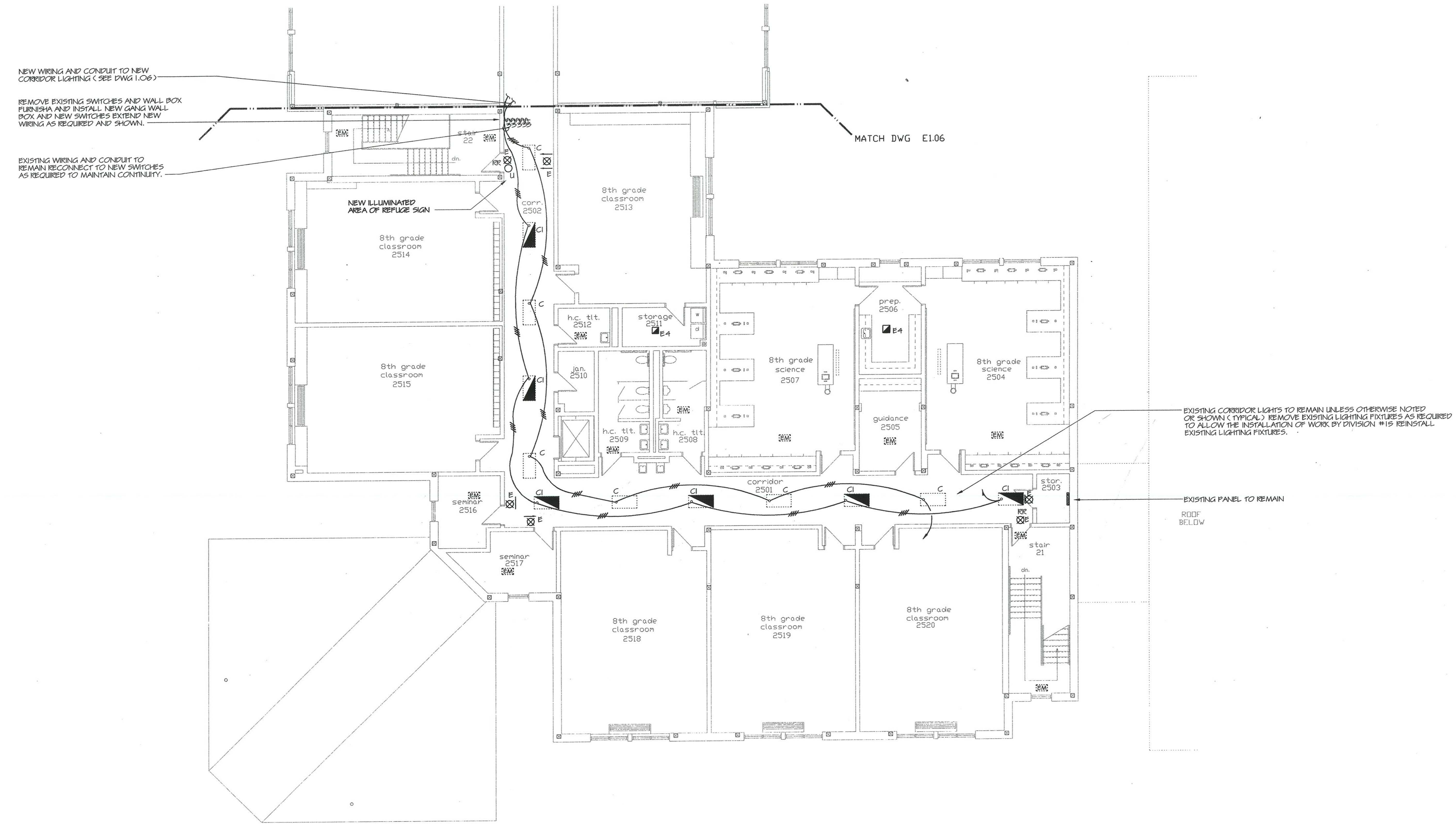


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ARCHITECTS

416 State Rd. New Britain, Connecticut 06050-2500 (203) 229-0261
 Drawn by: P.P. Scale: AS NOTED

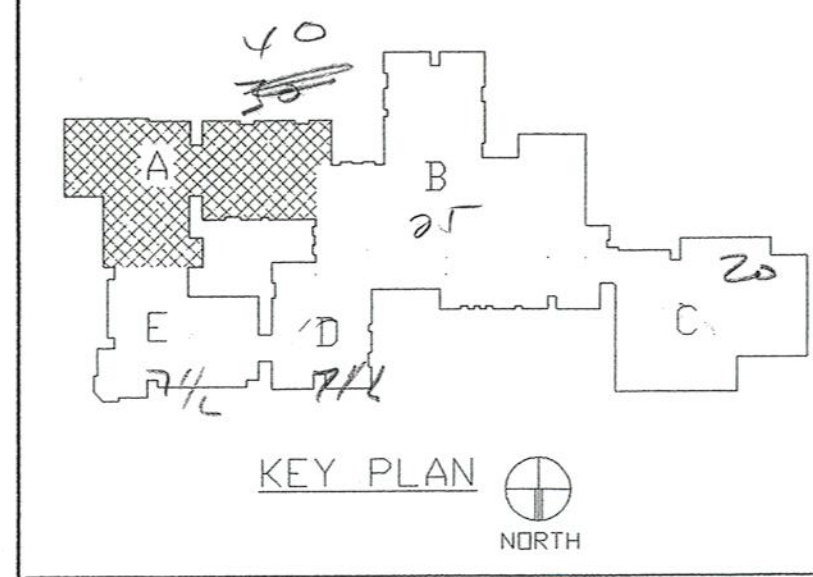
ELECTRICAL UPPER LEVEL LIGHTING FLOOR PLAN AREA E

Project no. 45110 Drawing no. **E1.07**
 Date: DECEMBER 16, 1998



1 ELECTRICAL UPPER LEVEL LIGHTING FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES**
1. ALL TYPE E11 & E4 FIXTURES SHALL BE WIRED TO THE LINE SIDE OF THE SWITCH SERVING THE EMERGENCY LIGHTING W/ 2#10 IN 3/4" C.
 2. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC., TO GROUND ALL LIGHTING FIXTURE AND DEVICES.
 3. FOR EXACT LOCATION OF LIGHTING FIXTURES REFER TO ARCHITECT REFLECTED CEILING PLAN.
 4. REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 5. UNLESS OTHERWISE NOTED OR INDICATED ALL EXISTING ELECTRICAL EQUIPMENT, DEVICES AND LIGHTING, ETC. SHALL REMAIN (MAINTAIN CONTINUITY).



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 STATE PROJECT NO. 018-043 EA & 018-041 A/TCH

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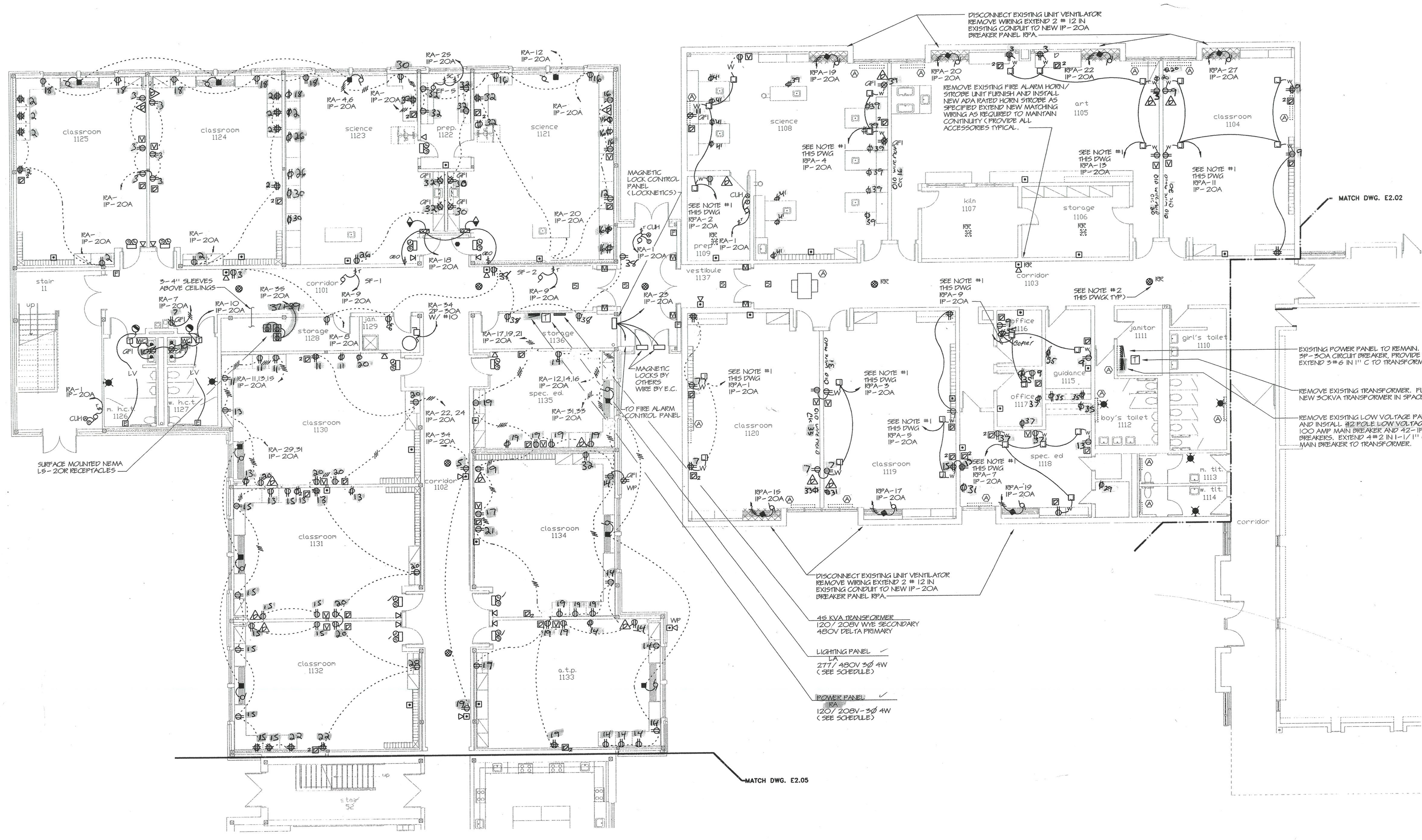


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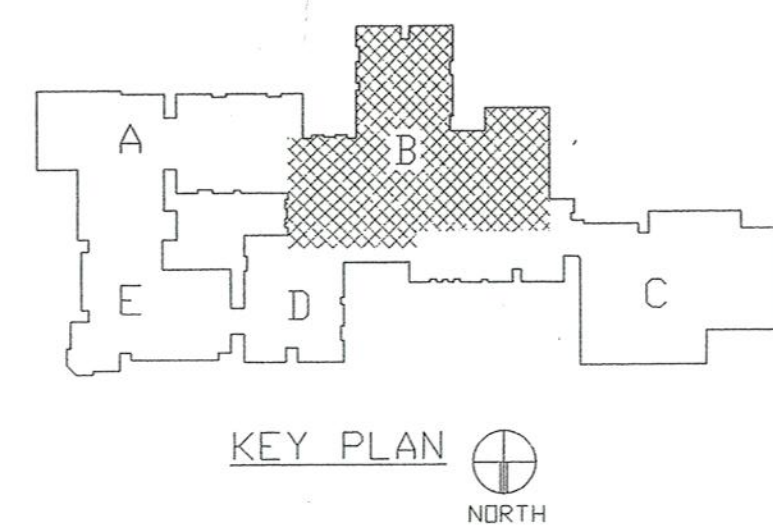
ELECTRICAL MAIN LEVEL POWER FLOOR PLAN AREA A

Project no. 13110 Drawing no. **E2.01**
 Date: DECEMBER 16, 1998



1 ELECTRICAL MAIN LEVEL POWER FLOOR PLAN - AREA A

- SCALE: 1/8" = 1'-0"
- NOTES**
1. EXTEND 2# 12 IN 3/4" CONDUIT TO NEW 1 POLE 20A CIRCUIT BREAKER IN NEW PANEL 'RPA'. (MAINTAIN CONTINUITY)
 2. REMOVE EXISTING CEILING SPEAKER AND BACK BOX AND GRILL REINSTALL EXISTING CEILING SPEAKER BACK BOX AND GRILL. EXTEND MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY.
 3. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT AND MC CABLE TO GROUND ALL EQUIPMENT AND DEVICES.



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 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

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WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
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 AVON, CT 06001-0516



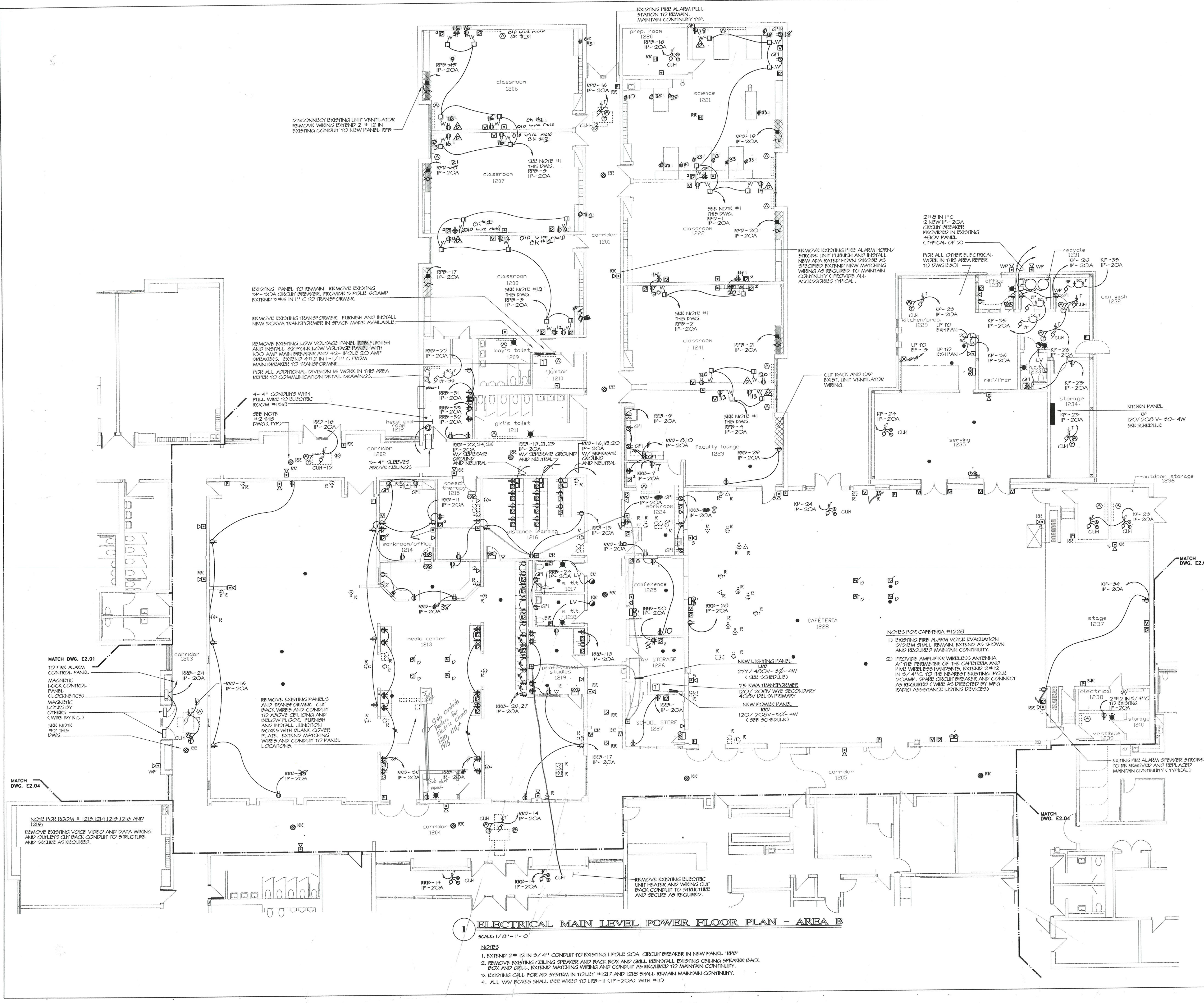
KAESTLE BOOS ASSOCIATES, INC.
ARCHITECTS

416 Slater Rd. New Britain, Connecticut 06050-2500 (203) 228-0261
 Drawn by: P.P. Scale: AS NOTED

ELECTRICAL MAIN LEVEL POWER FLOOR PLAN AREA B

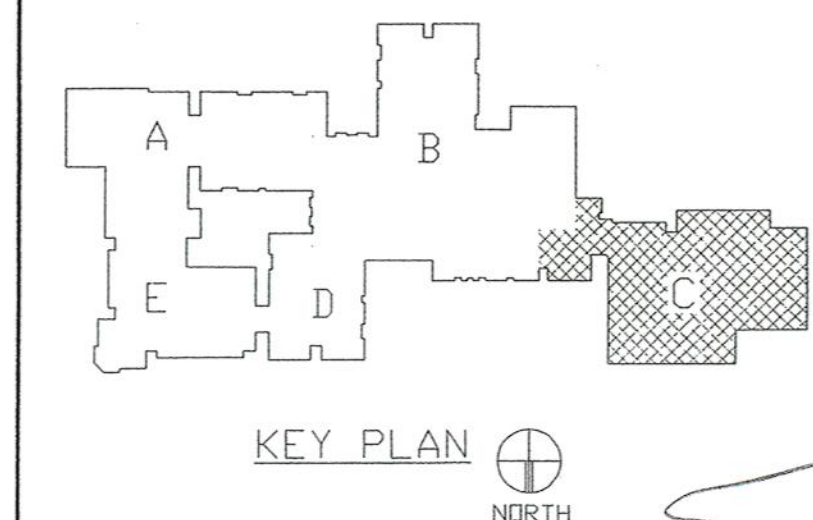
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **E2.02**



1 ELECTRICAL MAIN LEVEL POWER FLOOR PLAN - AREA B
 SCALE: 1/8" = 1'-0"

- NOTES
1. EXTEND 2# 12 IN 3/4" CONDUIT TO EXISTING 1 POLE 20A CIRCUIT BREAKER IN NEW PANEL 'RPB'
 2. REMOVE EXISTING CEILING SPEAKER AND BACK BOX AND GRILL. REINSTALL EXISTING CEILING SPEAKER BACK BOX AND GRILL. EXTEND MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY.
 3. EXISTING CALL FOR AID SYSTEM IN TOILET #1217 AND 1218 SHALL REMAIN MAINTAIN CONTINUITY.
 4. ALL VAV BOXES SHALL BE WIRED TO LRB-11 (IP-20A) WITH #10



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 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

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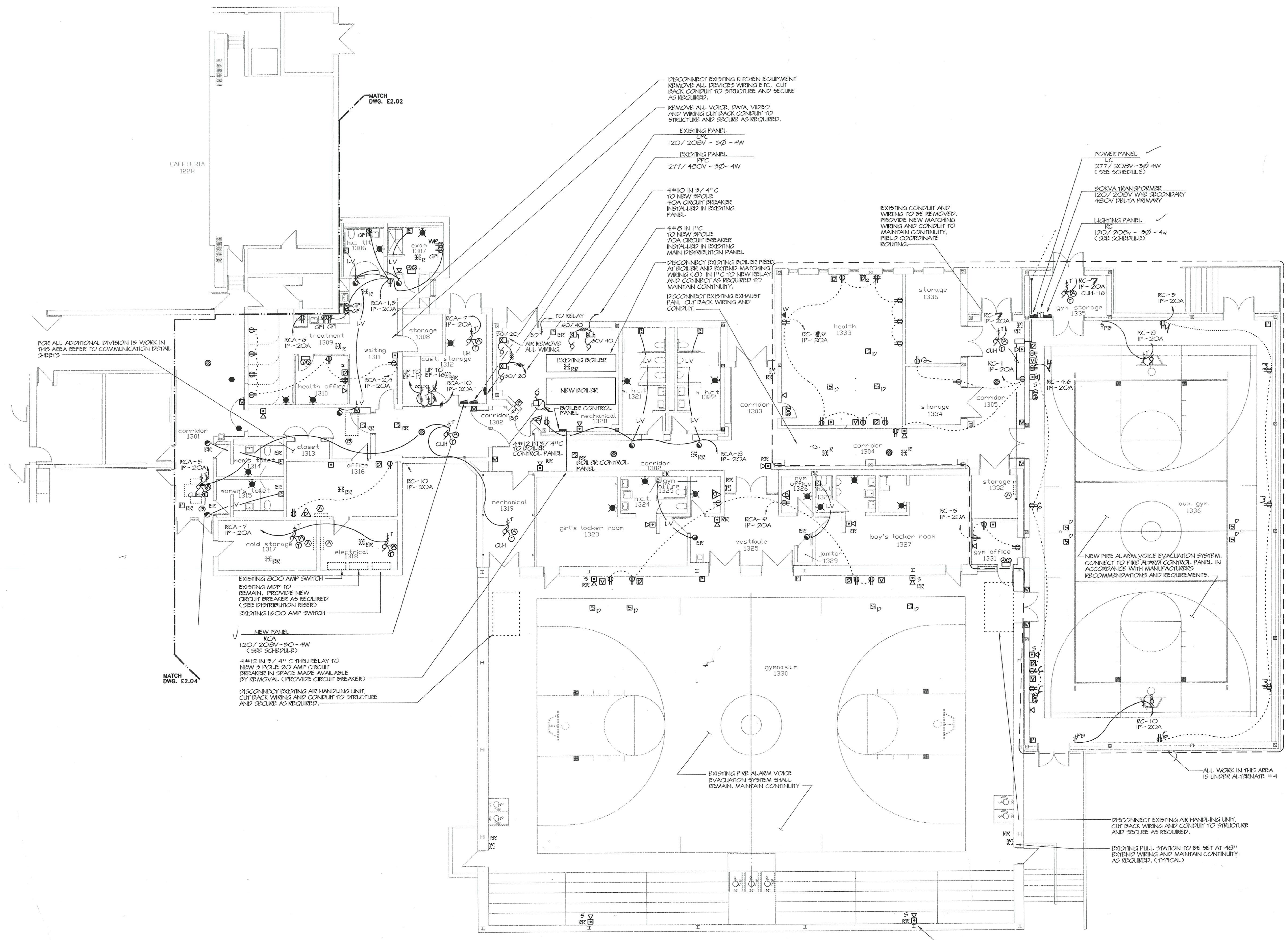
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ELECTRICAL MAIN LEVEL POWER FLOOR PLAN AREA C

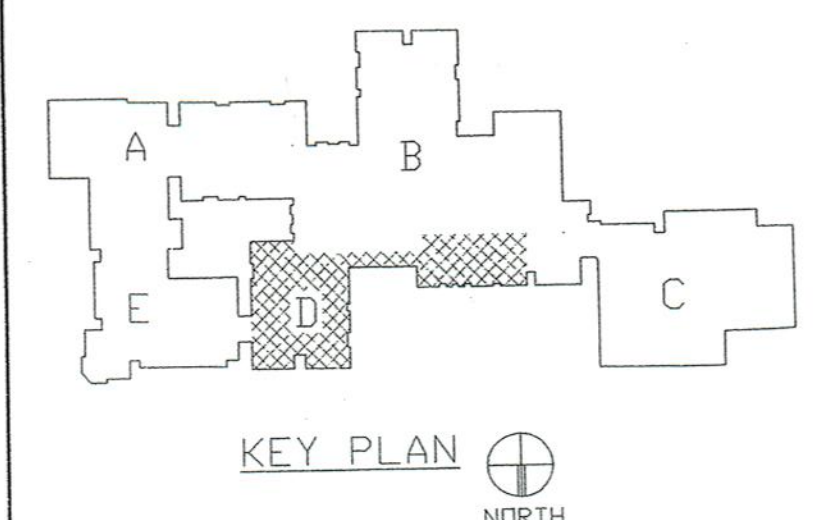
Project no. 45110 Drawing no.

Date: DECEMBER 16, 1998 **E2.03**



1 ELECTRICAL MAIN LEVEL POWER FLOOR PLAN - AREA C

- SCALE: 1/8" = 1'-0"
- NOTES**
1. EXTEND 2# 12 IN 5/4" CONDUIT TO EXISTING 1 POLE 20A CIRCUIT BREAKER IN NEW PANEL 'RC'.
 2. REMOVE EXISTING CEILING SPEAKER AND BACK BOX AND GRILL REINSTALL EXISTING CEILING SPEAKER BACK BOX AND GRILL. EXTEND MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY.
 3. ALL VAV BOXES SHALL BE WIRED TO AN EXISTING IP-20AMP SPARE CIRCUIT BREAKER IN EXISTING PNAEL 'PPC'.



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 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
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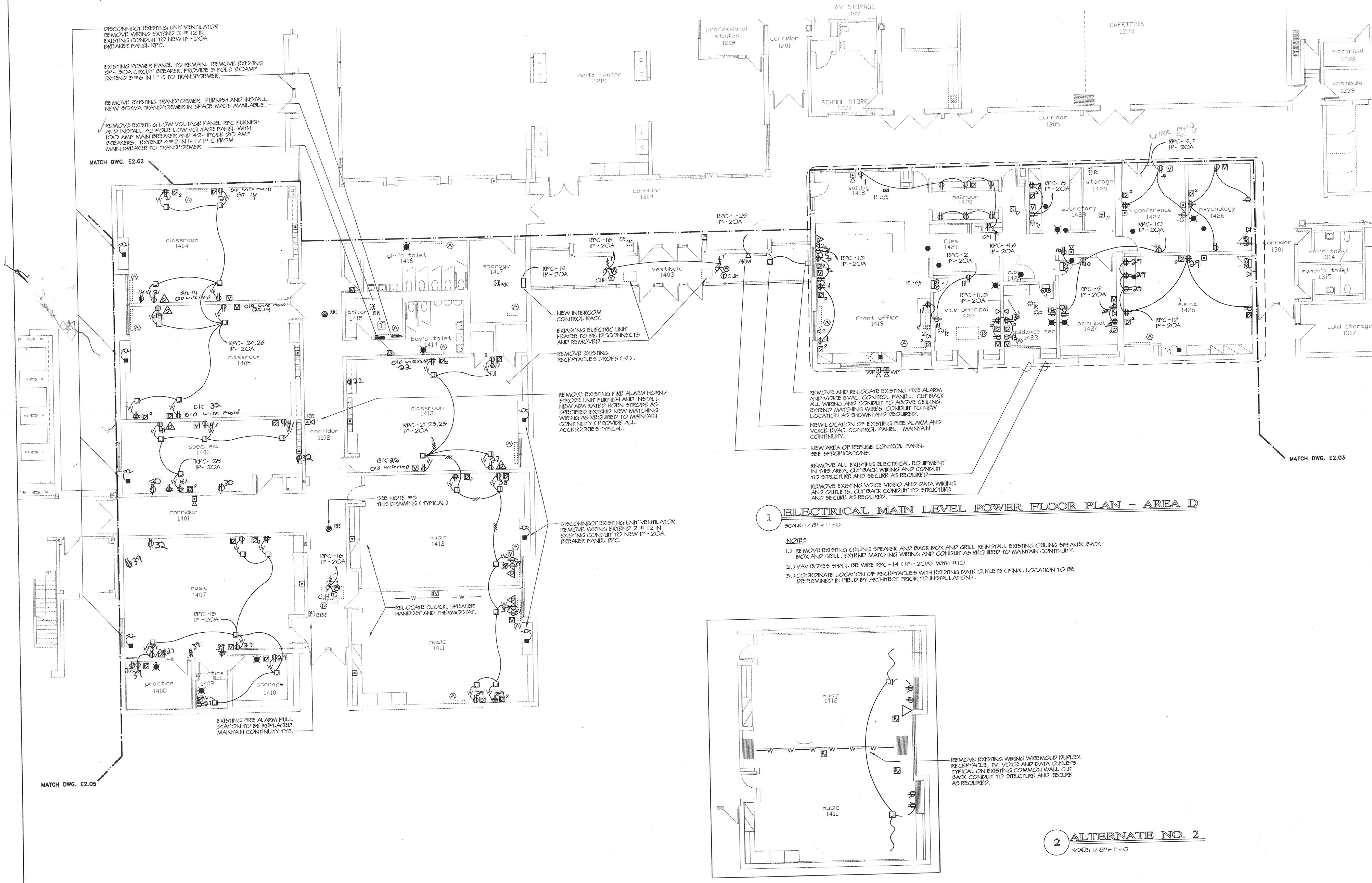
WALTER MCILVEEN ASSOCIATES, INC.
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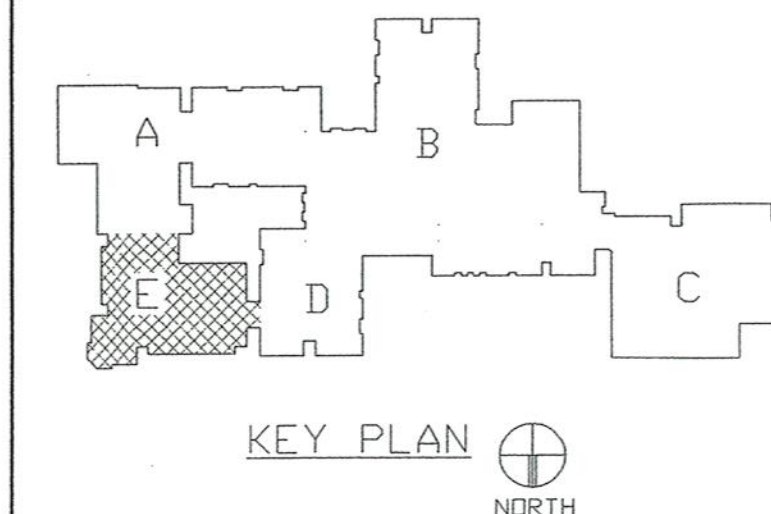
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ELECTRICAL MAIN LEVEL POWER FLOOR PLAN AREA D

Project no. 45110 Drawing no. **E2.04**
 Date DECEMBER 16, 1998





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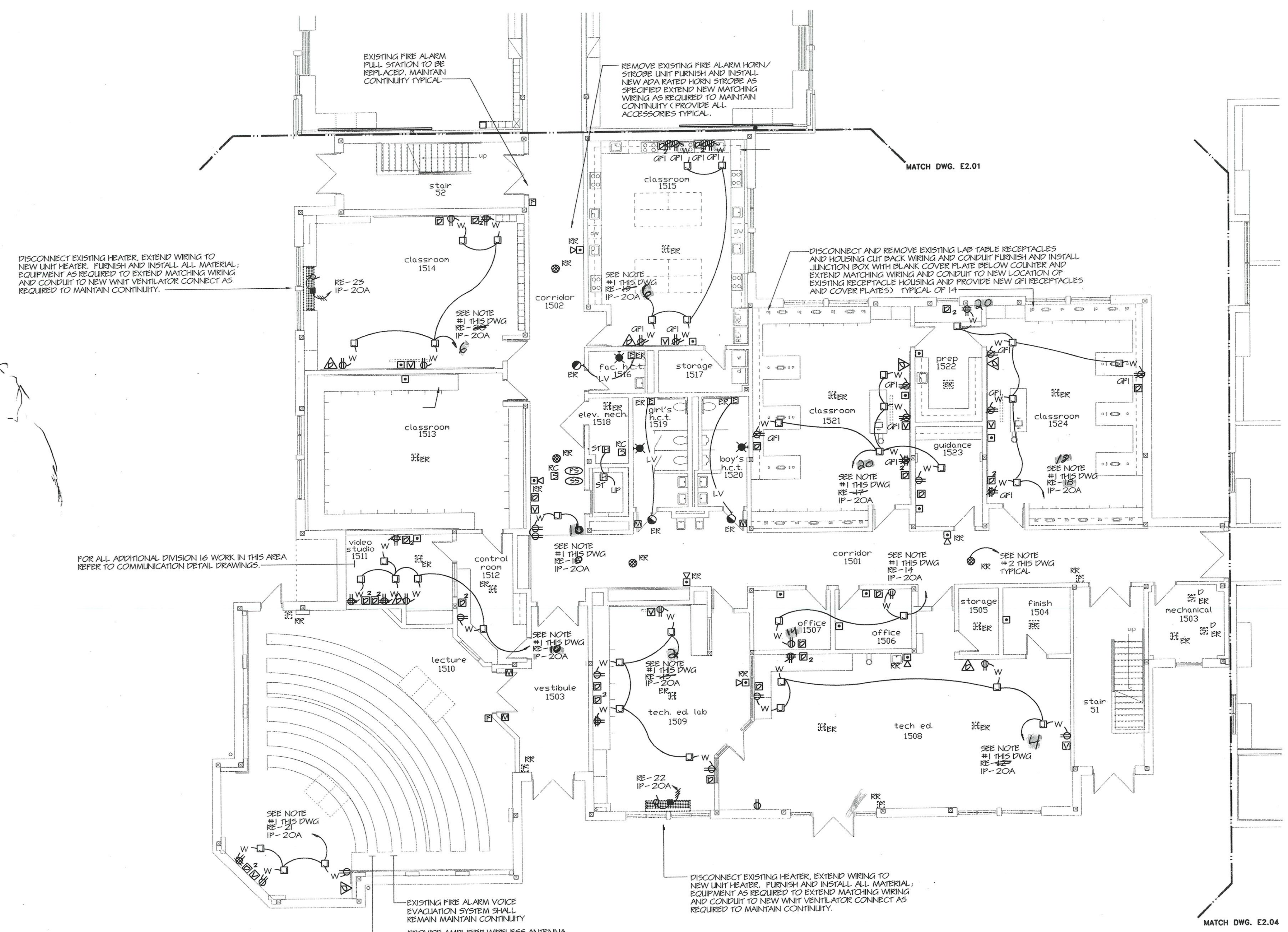
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ELECTRICAL MAIN LEVEL POWER FLOOR PLAN AREA E

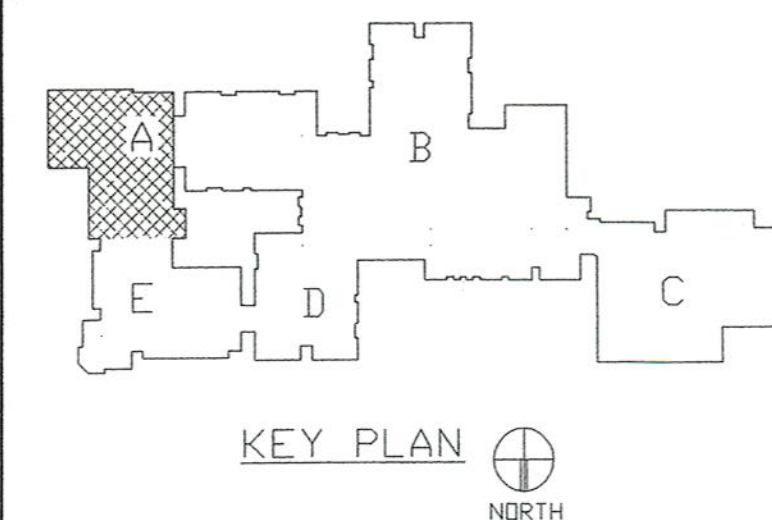
Project no. 43110 Drawing no.

Date: DECEMBER 16, 1998 **E2.05**



1 ELECTRICAL MAIN LEVEL POWER FLOOR PLAN - AREA E
 SCALE: 1/8" = 1'-0"

- NOTES**
1. EXTEND 2# 12 IN 3/4" CONDUIT TO EXISTING 1 POLE 20A SPARE CIRCUIT BREAKER IN PANEL 'RE' (SECOND FLOOR MECH. ROOM).
 2. REMOVE EXISTING CEILING SPEAKER AND BACK BOX AND GRILL. REINSTALL EXISTING CEILING SPEAKER BACK BOX AND GRILL. EXTEND MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY.
 3. EXISTING CALL FOR AID SYSTEM IN TOILET #1516, 1519, AND 1520 SHALL REMAIN MAINTAIN CONTINUITY.



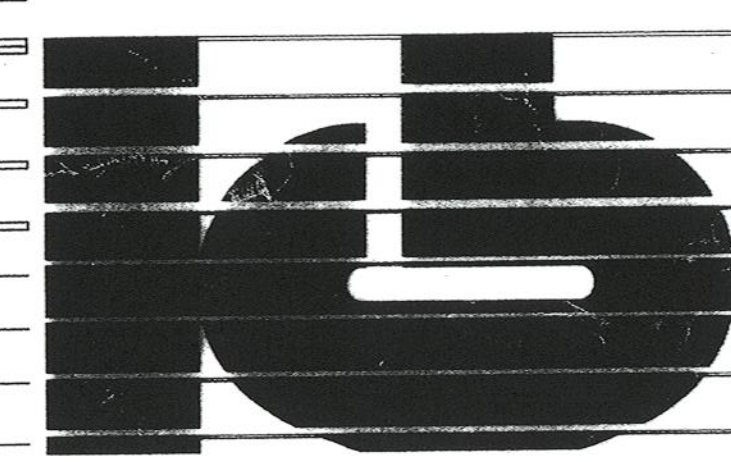
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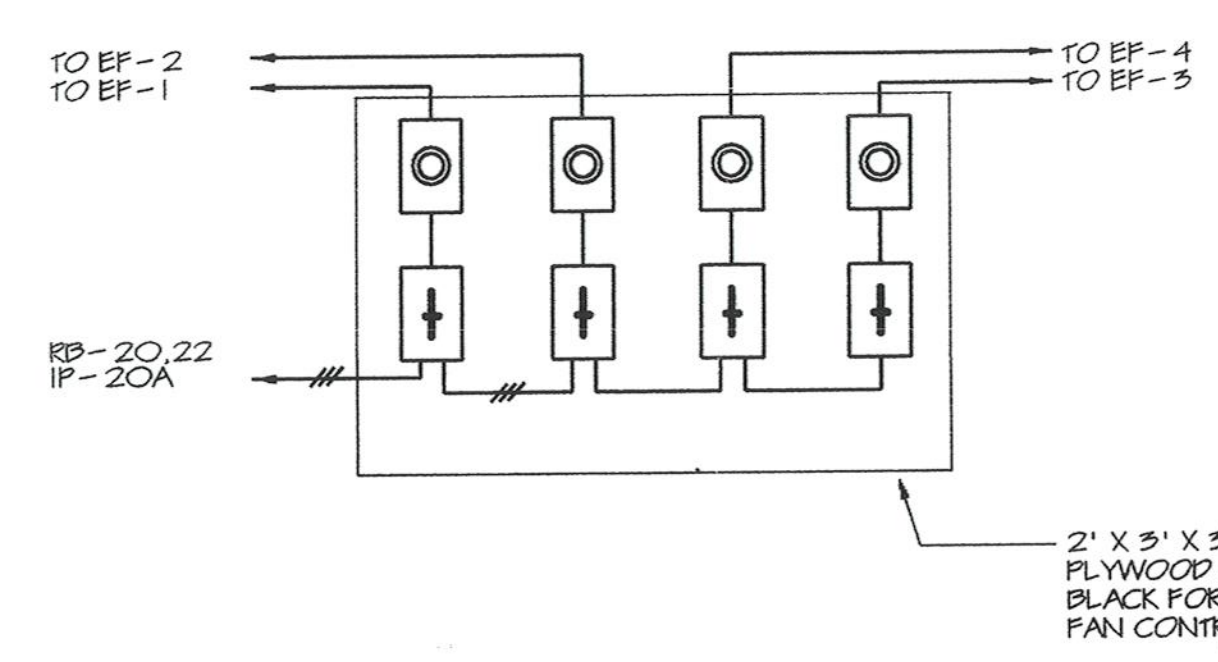
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ELECTRICAL UPPER LEVEL POWER FLOOR PLAN AREA A

Project no. 45110 Drawing no. **E2.06**
 Date DECEMBER 16, 1998



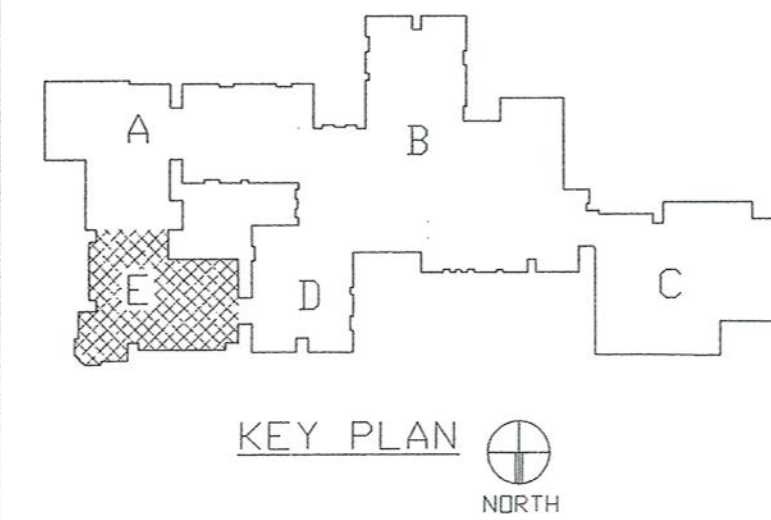
FOR ALL ADDITIONAL DIVISION 16 WORK IN THIS AREA REFER TO COMMUNICATION DETAIL DRAWINGS.



2 EXHAUST FAN CONTROL DETAIL
 NOT TO SCALE

1 ELECTRICAL UPPER LEVEL POWER FLOOR PLAN - AREA A
 SCALE: 1/8" = 1'-0"

NOTES:
 1. PROVIDE A SEPERATE GROUND WIRE IN ALL CONDUIT AND MC CABLE TO GROUND EQUIPMENT AND DEVICES.



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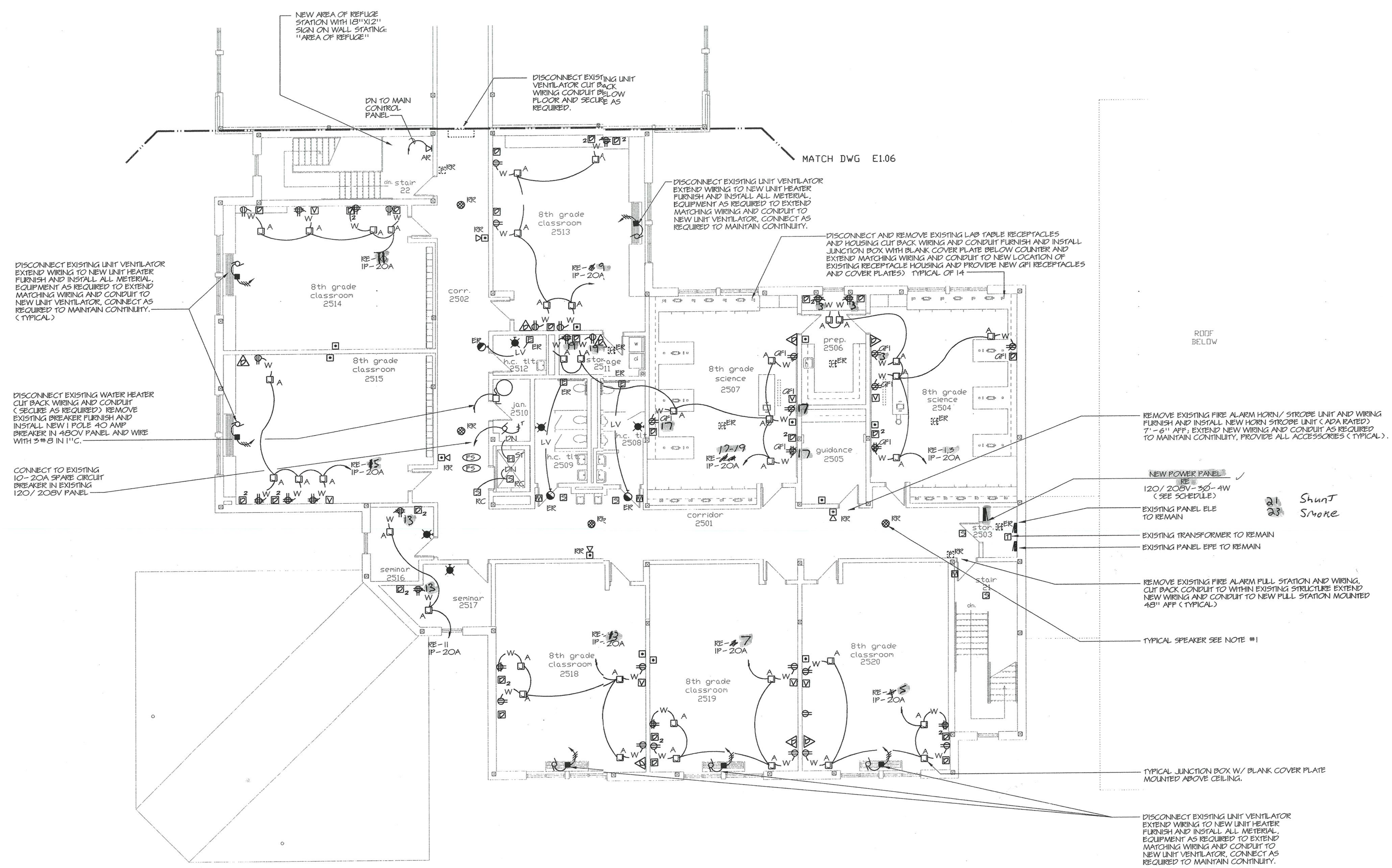
KAESTLE BOOS ASSOCIATES, INC.
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ELECTRICAL UPPER LEVEL POWER FLOOR PLAN AREA E

Project no. 43110 Drawing no.

Date: DECEMBER 16, 1998 **E2.07**

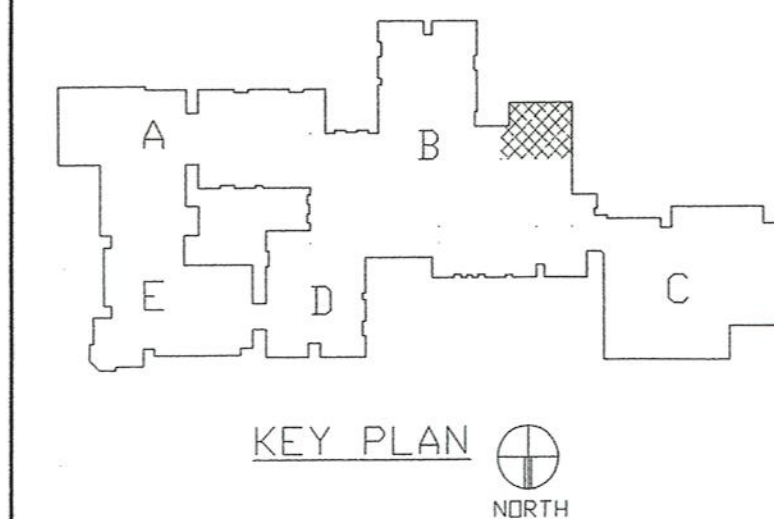


1 ELECTRICAL UPPER LEVEL POWER FLOOR PLAN - AREA E

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

NOTES

1. REMOVE EXISTING CEILING SPEAKER AND BACK BOX AND GRILL REINSTALL EXISTING CEILING SPEAKER BACK BOX AND GRILL. EXTEND MATCHING WIRING AND CONDUIT AS REQUIRED TO MAINTAIN CONTINUITY.
2. EXISTING CALL FOR AID SYSTEMS IN TOILET # 2508, 2509 & 2512 SHALL REMAIN MAINTAIN CONTINUITY
3. PROVIDE A SEPARATE GROUND WIRE IN ALL CONDUIT MC CABLE ETC TO GROUND EQUIPMENT AND DEVICES



REVISIONS

DATE	MARK	DESCRIPTION
JANUARY 4, 1999		DRAWINGS ISSUED FOR STATE DEPT. OF EDUCATION REVIEW
OCTOBER 4, 1999		DRAWINGS ISSUED FOR BIDDING AND CONSTRUCTION PURPOSES



ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
 BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT 06084
 STATE PROJECT NO. 018-043 EA
 & 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
 CONSULTING ENGINEERS
 195 WEST MAIN STREET
 AVON, CT 06001-0516



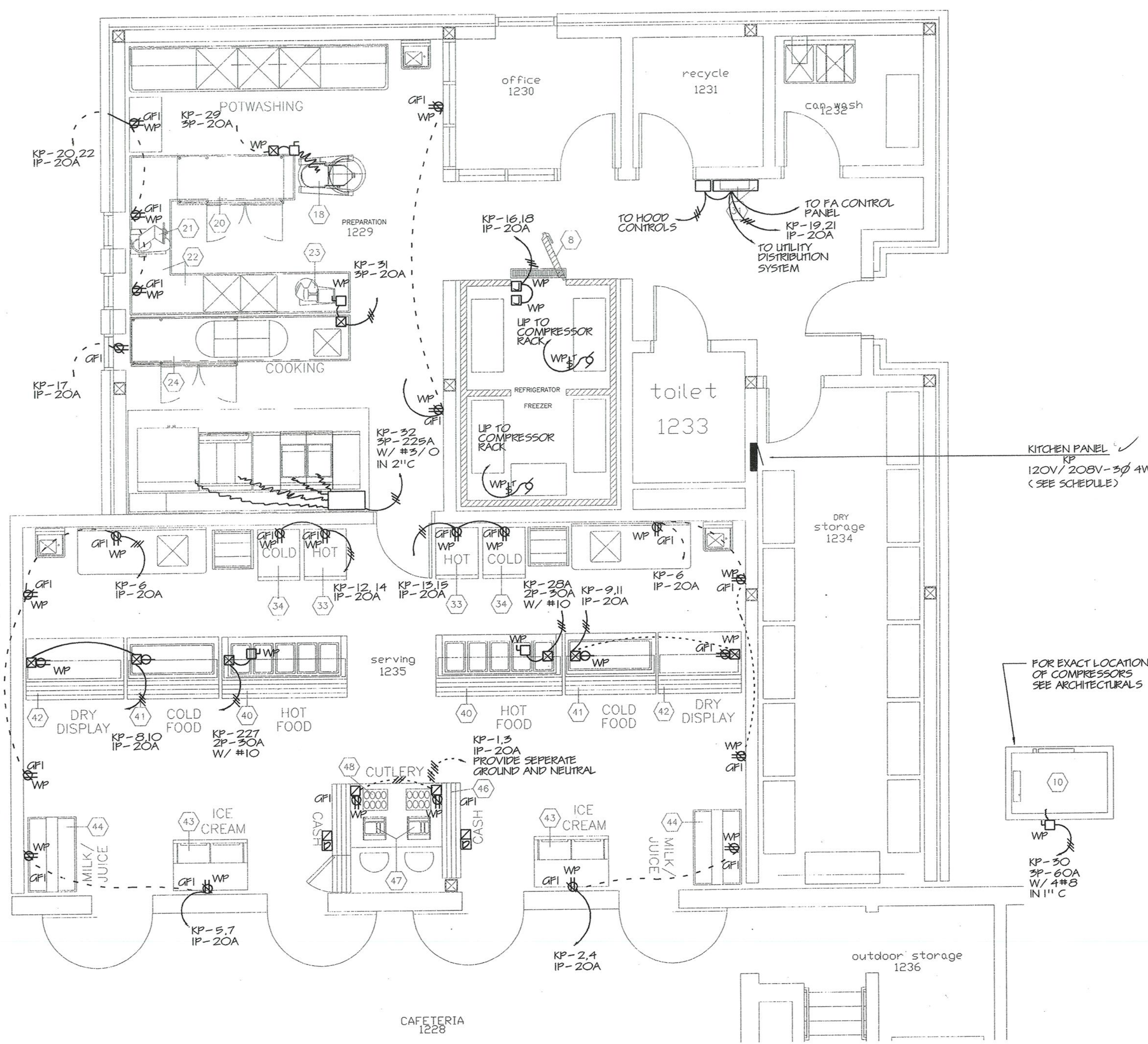
KAESTLE BOOS ASSOCIATES, INC.
 ARCHITECTS

418 Slater Rd. New Britain, Connecticut 06050-2900 (203) 229-0381
 Drawn by: P.P. Scale: AS NOTED

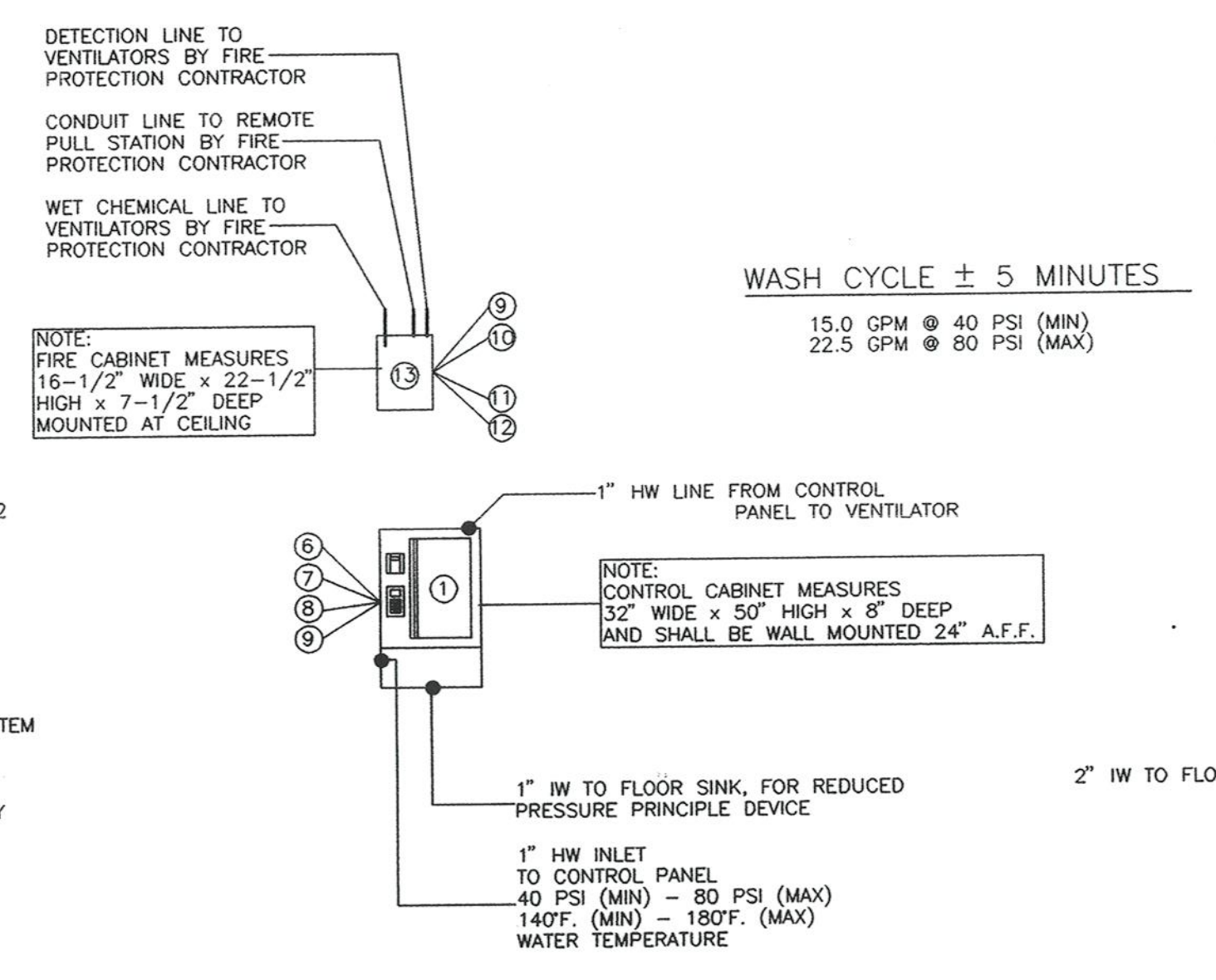
ELECTRICAL EQUIPMENT KITCHEN FLOOR PLAN

Project no. 42110 Drawing no. **E3.01**
 Date: DECEMBER 16, 1998

KITCHEN EQUIPMENT SCHEDULE								
ITEM	DESCRIPTION	AMP	KW	HP	VOLTS	PHASE	MOUNTING HEIGHT / AFF	REMARKS
8	WALK-IN REFRIGERATOR / FREEZER							
	WALK-IN REFRIGERATOR EVAPORATOR COIL	4.2			120	1		
	WALK-IN FREEZER EVAPORATOR COIL	4.2			120	1		
	WALK-IN FREEZER DRAIN LINE HEATER		1.0		120	1		
	WALK-IN LIGHTS		.160		120	1		
	WALK-IN VENT PORT & AUDIO / VISUAL ALARM		0.5					
10	COMPRESSOR RACK	55.2		3/4	208	3		
16	40 QUART MIXING MACHINE			1-1/2	208	3		
20	UNDERCOUNTER REFRIGERATOR	8.9		1/3	120	1		
21	SLICING MACHINE			1/3	120	1		
22	PREPARATION TABLE WITH SINKS	20.0			120	1		
23	FOOD CUTTER			1/2	208	3		
24	UNDERCOUNTER REFRIGERATOR	8.9		1/3	120	1		
33	HOT TRANSPORT CABINET		2.0		120	1		
34	COLD TRANSPORT CABINET	7.5		1/4	120	1		
43	HOT FOOD COUNTERS W/ PROTECTOR CASE	22.6	4.7		208	3		
44	HOT FOOD COUNTERS W/ PROTECTOR CASE			1/3	120	1		
42	DRY COUNTERS W/ PROTECTOR CASE			1/3	120	1		
45	ICE CREAM MERCHANDISERS	8.4		1/2	120	1		
44	MILK / JUICE DISPENSERS	4.6		1/4	120	1		
46	CASHER COUNTER	20.0			120	1		



- WIRING NOTES:**
- VENTILATOR CONTROL CABINET FURNISHED BY VENTILATOR MANUFACTURER. FIELD WIRING BY ELECTRICAL CONTRACTOR
 - THREE (3) WIRES INTERCONNECTING J-BOXES (C) TO MAIN J-BOX (A) BY VENTILATOR MANUFACTURER. DISCONNECTED FOR SHIPMENT AT J-BOX (C) JOBSITE RECONNECTION BY ELECTRICAL CONTRACTOR
 - LIGHT FIXTURES, VAPORPROOF, U.L. LISTED, FURNISHED, INSTALLED AND WIRED TO J-BOX (B) BY VENTILATOR MANUFACTURER. DISCONNECTED FOR SHIPMENT AT J-BOX (B). RECONNECTED ON JOBSITE BY ELECTRICAL CONTRACTOR
 - LIGHT SWITCHES LOCATED IN U.S.S. END RISERS FOR LIGHT FIXTURES WITH 120 VOLT A.C. SERVICE BY ELECTRICAL CONTRACTOR
 - THREE (3) WIRES FROM LIGHT SWITCHES LOCATED IN U.S.S. END RISERS TO J-BOX (B) ON VENTILATOR BY ELECTRICAL CONTRACTOR
 - THREE (3) WIRES FROM CONTROL CABINET TO J-BOX (A) ON VENTILATOR BY ELECTRICAL CONTRACTOR
 - THREE (3) WIRES FROM CONTROL CABINET TO 120 VOLT A.C. 20 AMP SERVICE BY ELECTRICAL CONTRACTOR
 - THREE (3) WIRES FROM CONTROL CABINET TO MAGNETIC STARTER SWITCH BY ELECTRICAL CONTRACTOR
 - TWO (2) WIRES (N.O. DRY CONTACTS) FROM TERMINALS FS1 & FS2 IN CONTROL CABINET TO N.O. DRY CONTACTS IN FIRE PROTECTION SYSTEM BY ELECTRICAL CONTRACTOR
 - TWO (2) WIRES FROM FIRE CABINET TO 120 VOLT A.C. 20 AMP SERVICE BY ELECTRICAL CONTRACTOR
 - FIVE (5) WIRES FROM FIRE PROTECTION SYSTEM CABINET TO U.S.S. END RISERS BY ELECTRICAL CONTRACTOR
 - TWO (2) WIRES (N.O. DRY CONTACTS) FROM FIRE PROTECTION SYSTEM CABINET TO BUILDING FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR
 - WET CHEMICAL FIRE EXTINGUISHING SYSTEM CABINET FURNISHED BY VENTILATOR MANUFACTURER INSTALLED BY AUTHORIZED INSTALLER.
- N.O. = NORMALLY OPEN

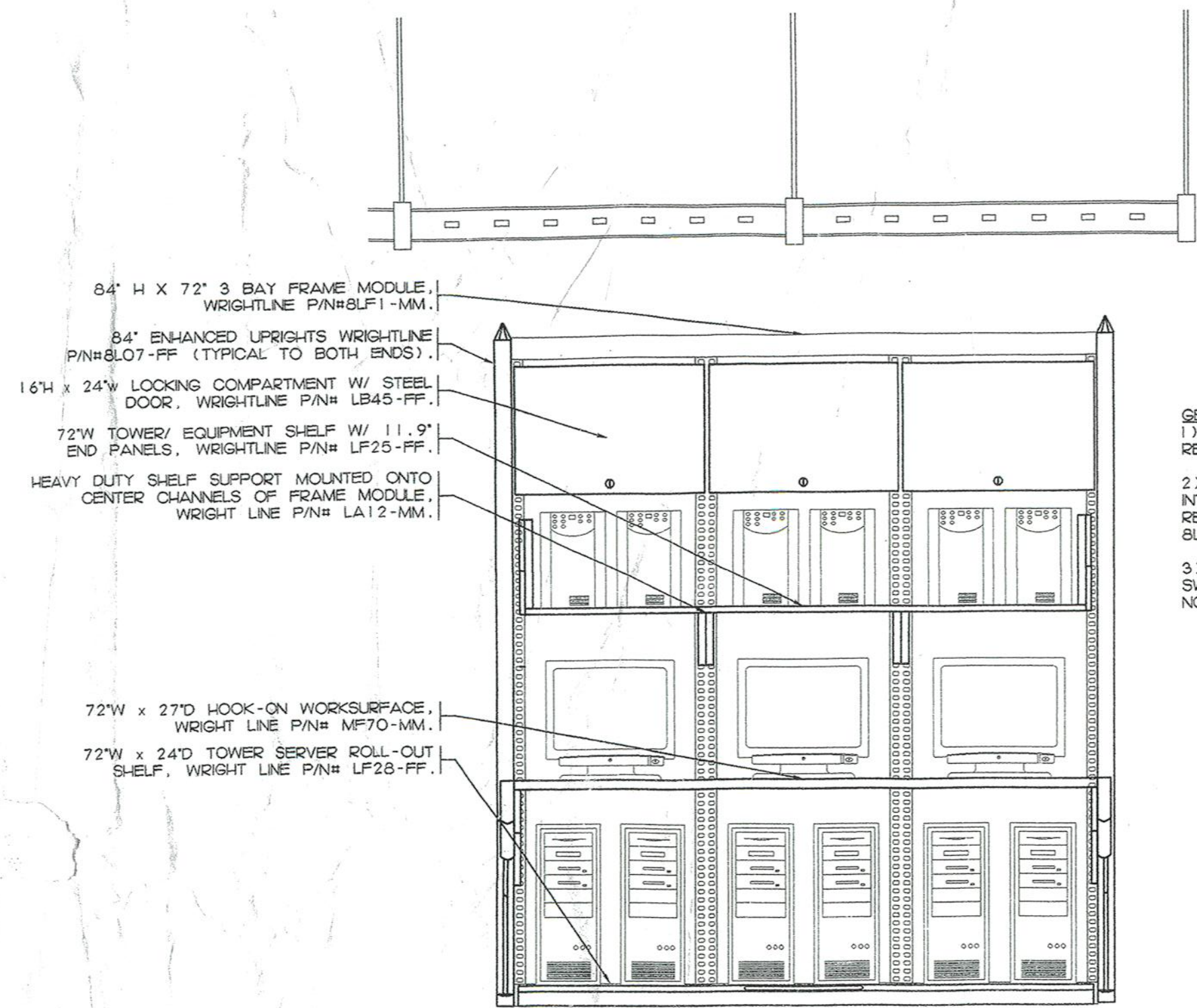


1 KITCHEN EQUIPMENT WIRING PLAN
 SCALE: 1/4" = 1'-0"

- NOTES:**
- REFER TO SCHEDULES, RISER, SYMBOLS, FLOOR PLANS, DETAILS AND SPECIFICATIONS.
 - COORDINATE OUTLET LOCATION AND TYPE WITH EQUIPMENT SUPPLIER PRIOR TO ORDERING AND INSTALLING.
 - INSTALL ALL ELECTRICAL DEVICES FOR THE PROPER OPERATION OF ALL ITEMS OF FOOD SERVICE EQUIPMENT WHICH IS NOT AN INTEGRAL PART OF ANY PIECE OF KITCHEN EQUIPMENT, THAT IS FURNISHED BY THE KITCHEN EQUIPMENT CONTRACTOR.
 - ALL KITCHEN EQUIPMENT LOCATED UNDER THE KITCHEN HOOD SHALL BE DEACTIVATED BY ELECTRICAL RELAYS UPON THE ACTIVATION OF ANY FIRE ALARM INITIATING DEVICE (FILL STATION, SMOKE DETECTOR, DUCT SMOKE DETECTOR, HEAT DETECTOR, SPRINKLER FLOW SWITCH, KITCHEN HOOD SUPPRESSION)

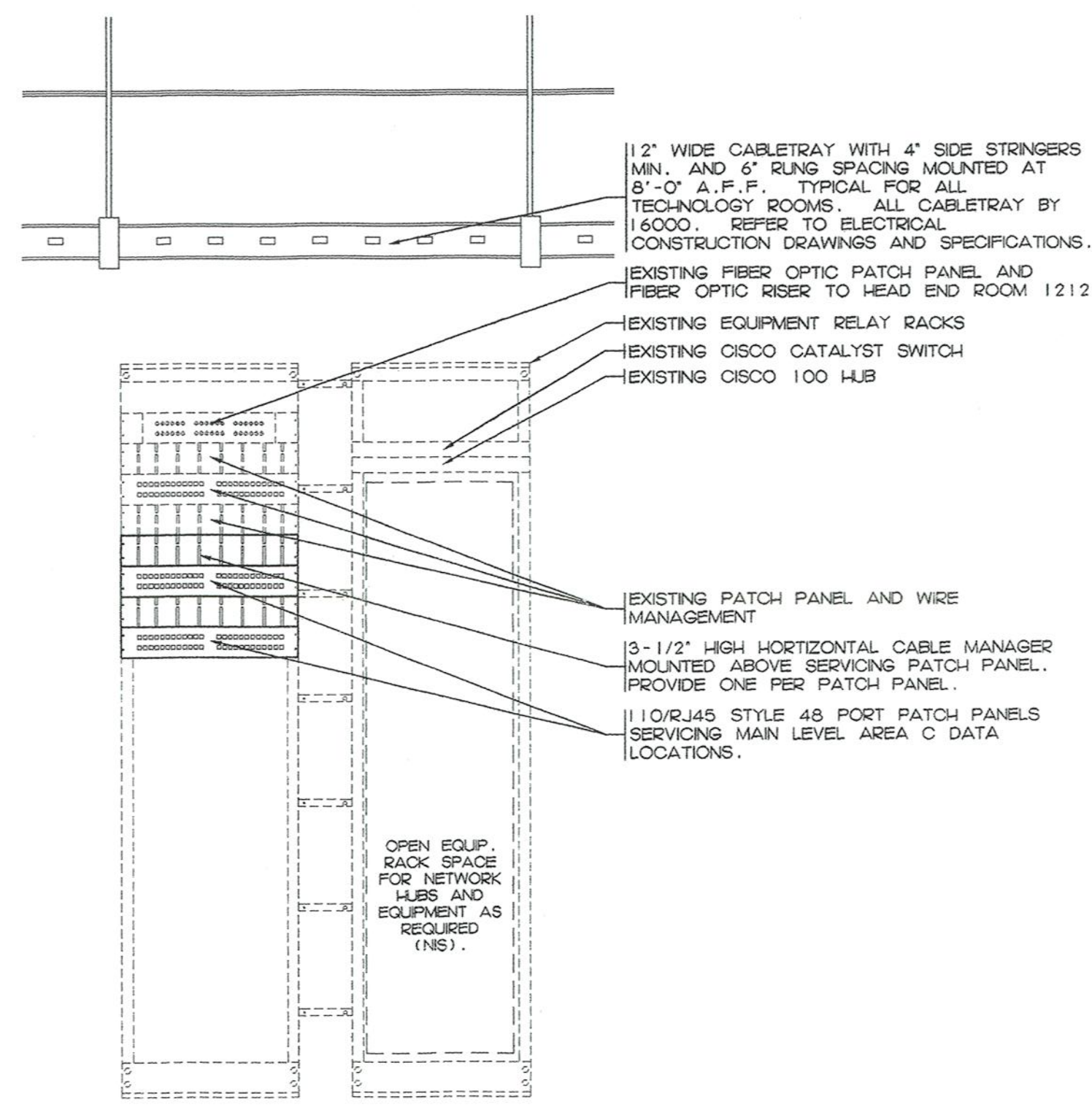
2 KITCHEN HOOD WIRING DIAGRAM
 SCALE: 1/4" = 1'-0"

- NOTES:**
- COORDINATE ALL WIRING WITH MANUFACTURERS WIRING DIAGRAMS.
 - INCLUDE ALL EQUIPMENT MATERIAL, ETC AS REQUIRED.

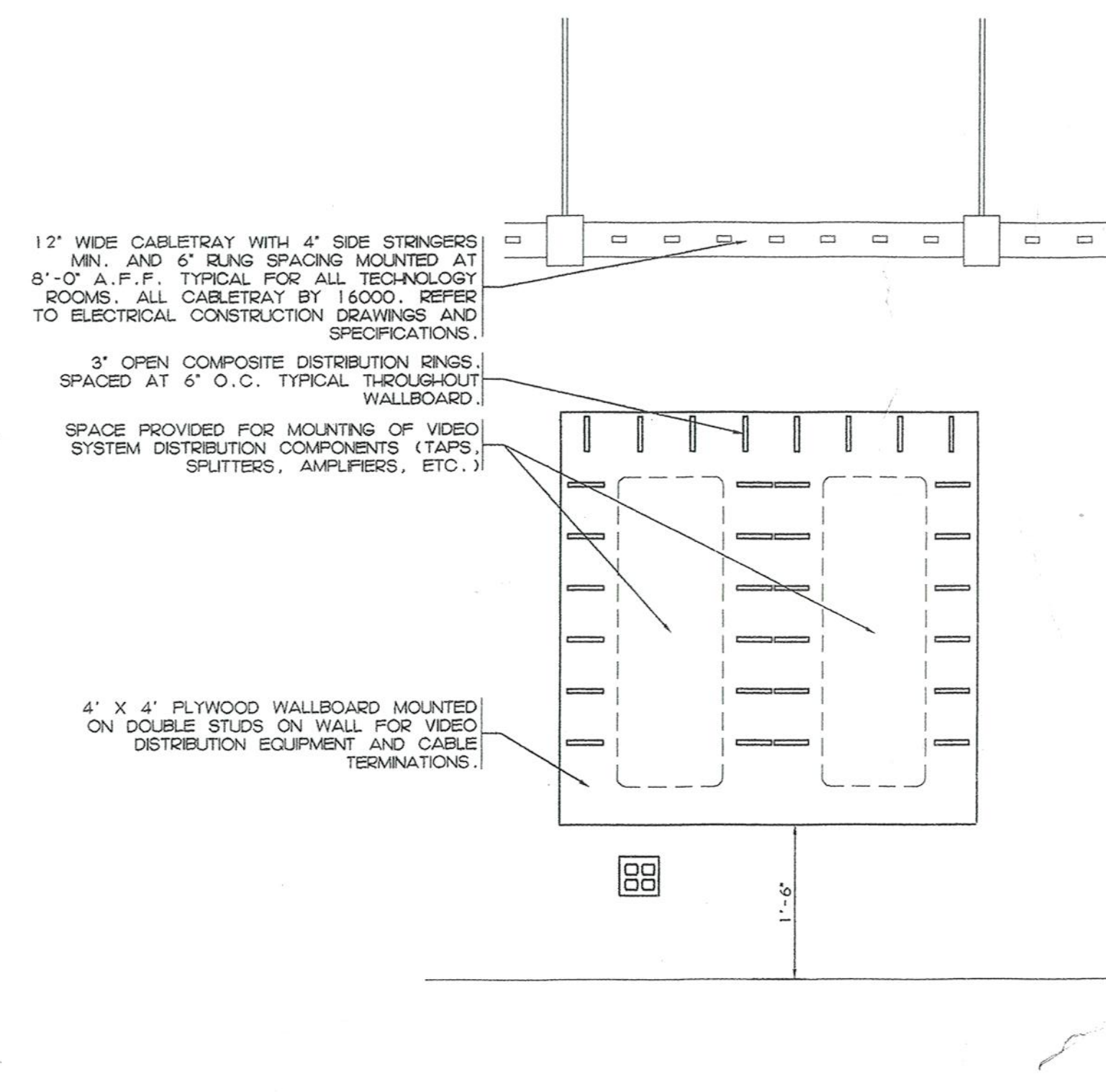


GENERAL NOTES:
 1) EQUIPMENT NOT IN CONTRACT SHOWN FOR REPRESENTATION PURPOSES ONLY.
 2) PROVIDE HORIZONTAL CABLE MANAGEMENT WITH INTEGRATED POWER STRIPS (WRIGHT LINE P/NH LP33) ON REAR PORTIONS OF FRAME MODULE. (WRIGHTLINE P/NH BU11). MOUNT AT BOTTOM LB45, LP25, AND MP01.
 3) UNINTERRUPTIBLE POWER SUPPLIES, MONITORS, HUBS, SWITCHES, DATA NETWORK SERVERS/WORKSTATIONS ARE NOT IN SCOPE.

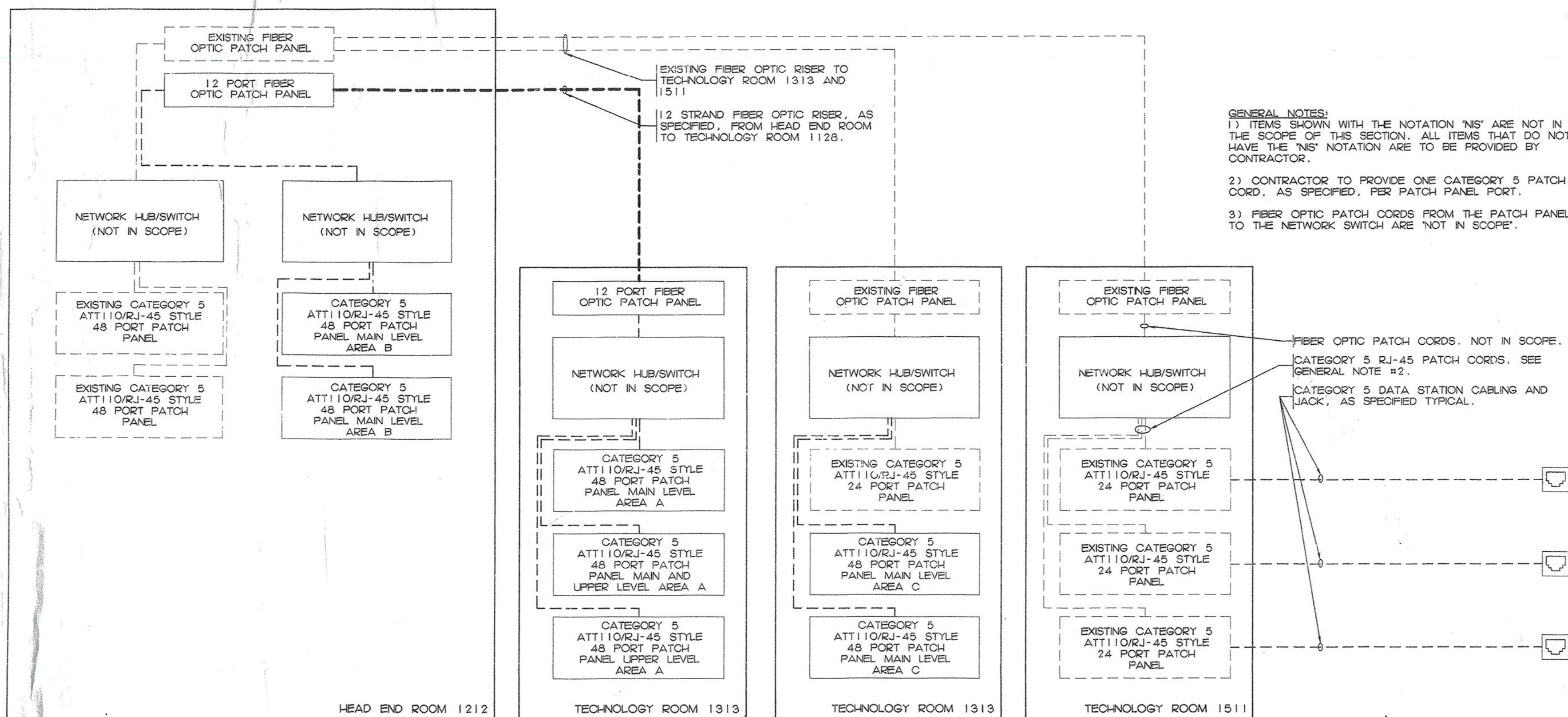
1 HEAD END ROOM 1212 SERVER EQUIPMENT RACK
 NOT TO SCALE



2 TECHNOLOGY ROOM 1313 DATA EQUIPMENT RACK LAYOUT
 SCALE: 3/4"=1'-0"



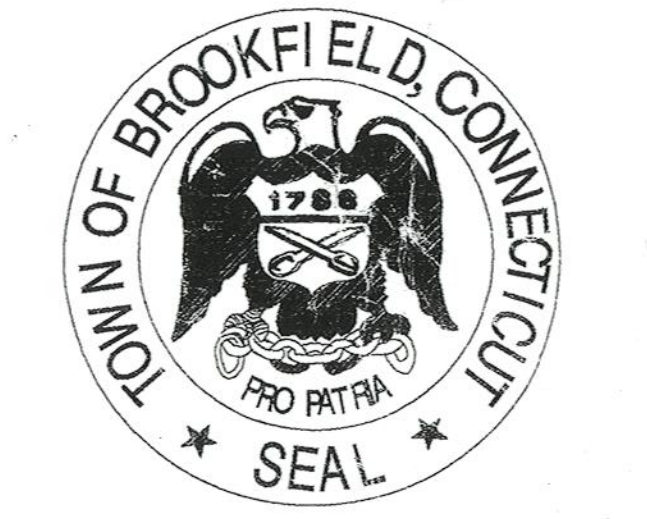
3 TYPICAL VIDEO TERMINATION WALLBOARD
 SCALE: 3/4"=1'-0"



4 DATA SYSTEM ONE LINE DIAGRAM
 NOT TO SCALE

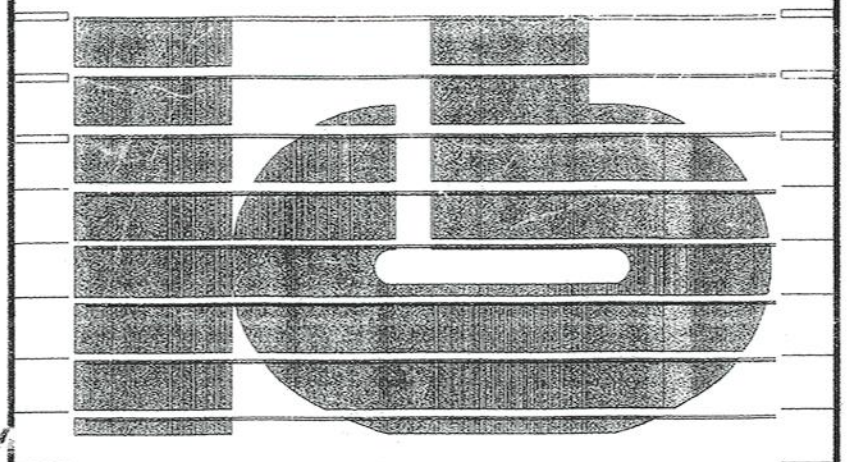
REVISIONS		
DATE	MARK	DESCRIPTION
October 4, 1998		Drawings issued for Bidding and Construction Purposes

FOR ALL ABBREVIATIONS, SYMBOL LEGENDS GENERAL NOTES AND WALL TYPES SEE SHEETS R0.01 & R0.02



ADDITIONS AND RENOVATIONS TO THE
WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT
 WHISCONIER ROAD
 BROOKFIELD, CT. 06084
 STATE PROJECT NO. 019-043 EAV/RN

AS BUILT



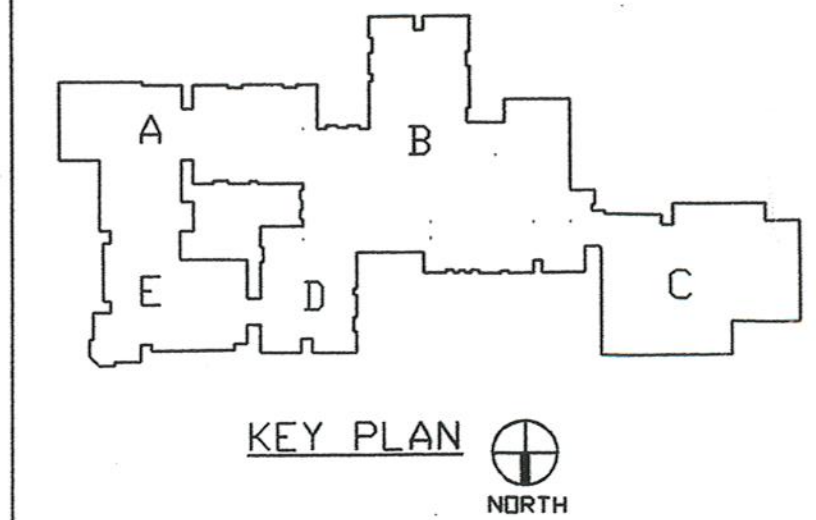
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ARCHITECTS

490 Slater Rd., New Britain, Connecticut 06050-2600 860-229-0261
 Drawn by: MCH Scale: AS NOTED

TECHNOLOGY DETAIL SHEET #2

Project no. 98078 Drawing no.
 Date DECEMBER 16, 1998 **T1.02**

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KEY PLAN
NORTH

REVISIONS

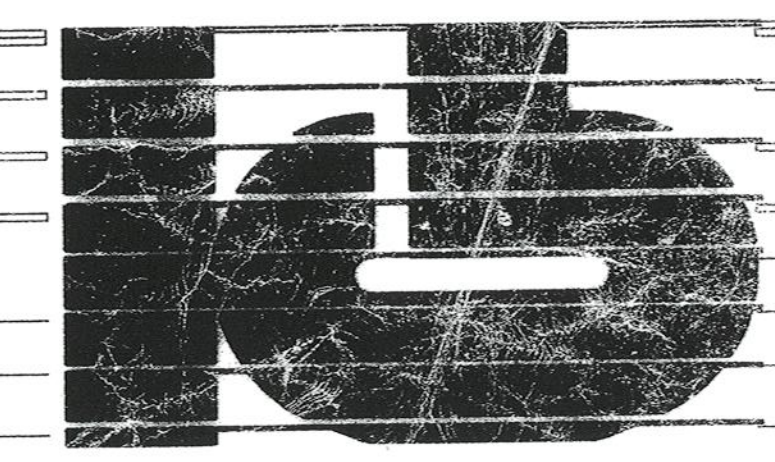
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BROOKFIELD, CT 06084
STATE PROJECT NO. 018-043 EA
& 018-041 A/TCH

AS BUILT

WALTER MCILVEEN ASSOCIATES, INC.
CONSULTING ENGINEERS
195 WEST MAIN STREET
AVON, CT 06001-0516



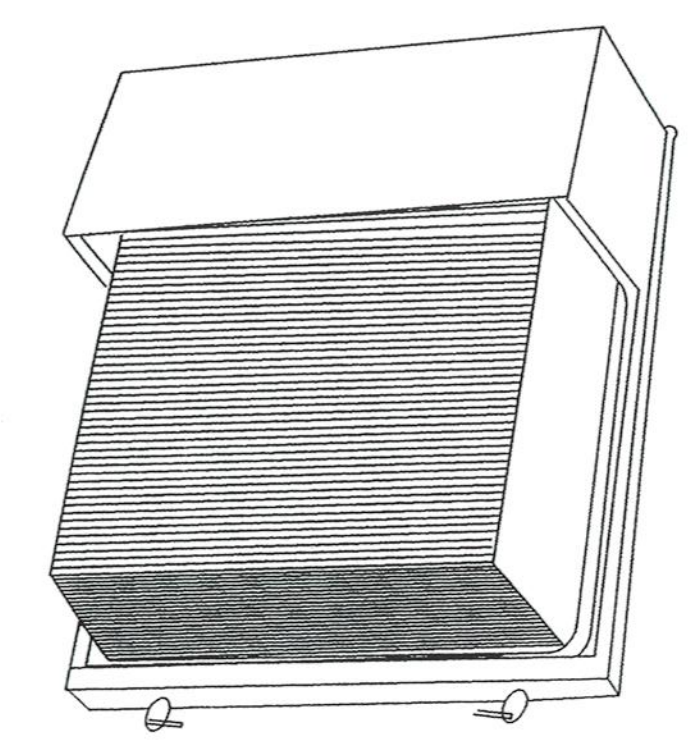
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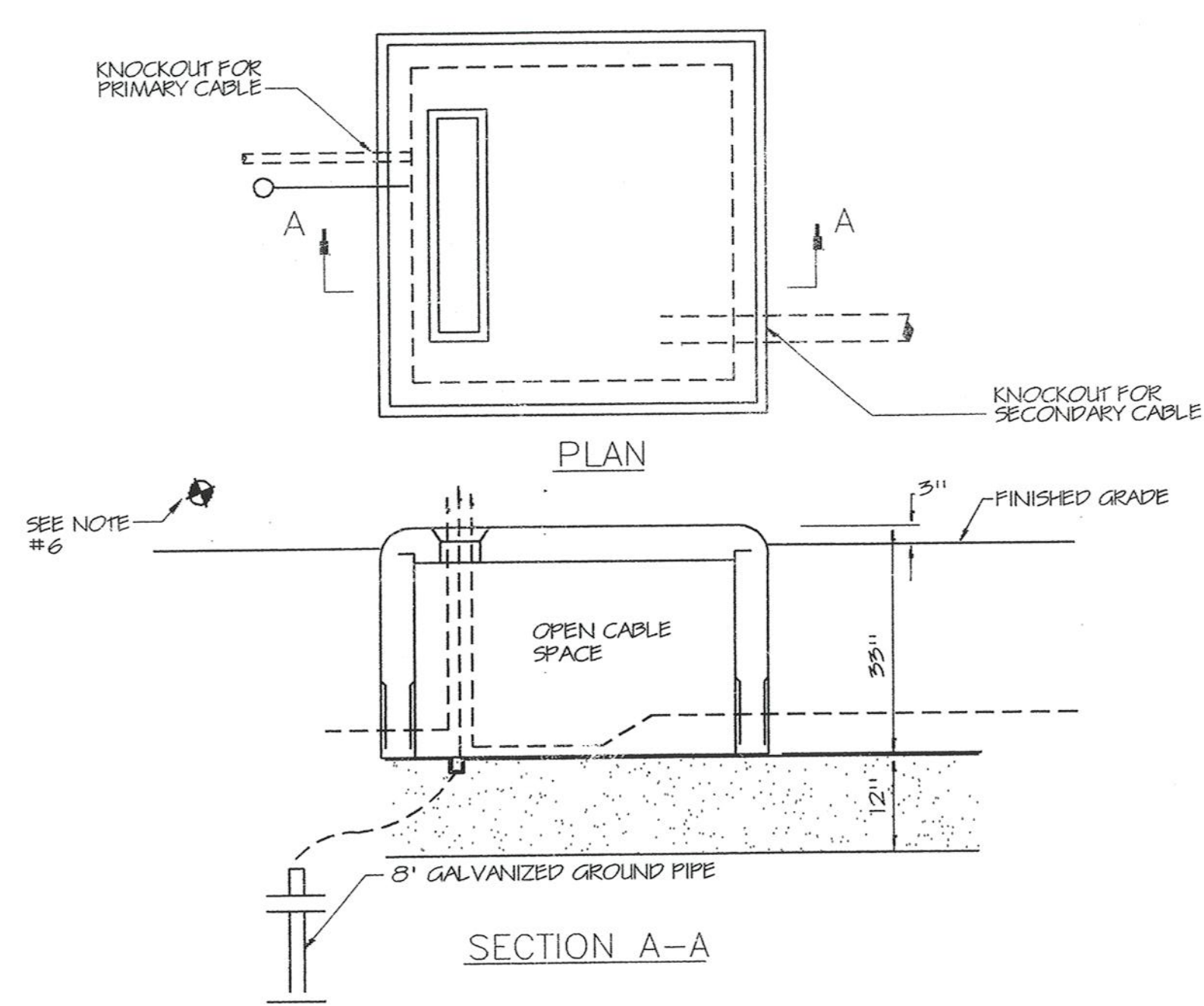
ELECTRICAL SITE PLAN

Project no. 45110 Drawing no. E5.01

Date: DECEMBER 16, 1998

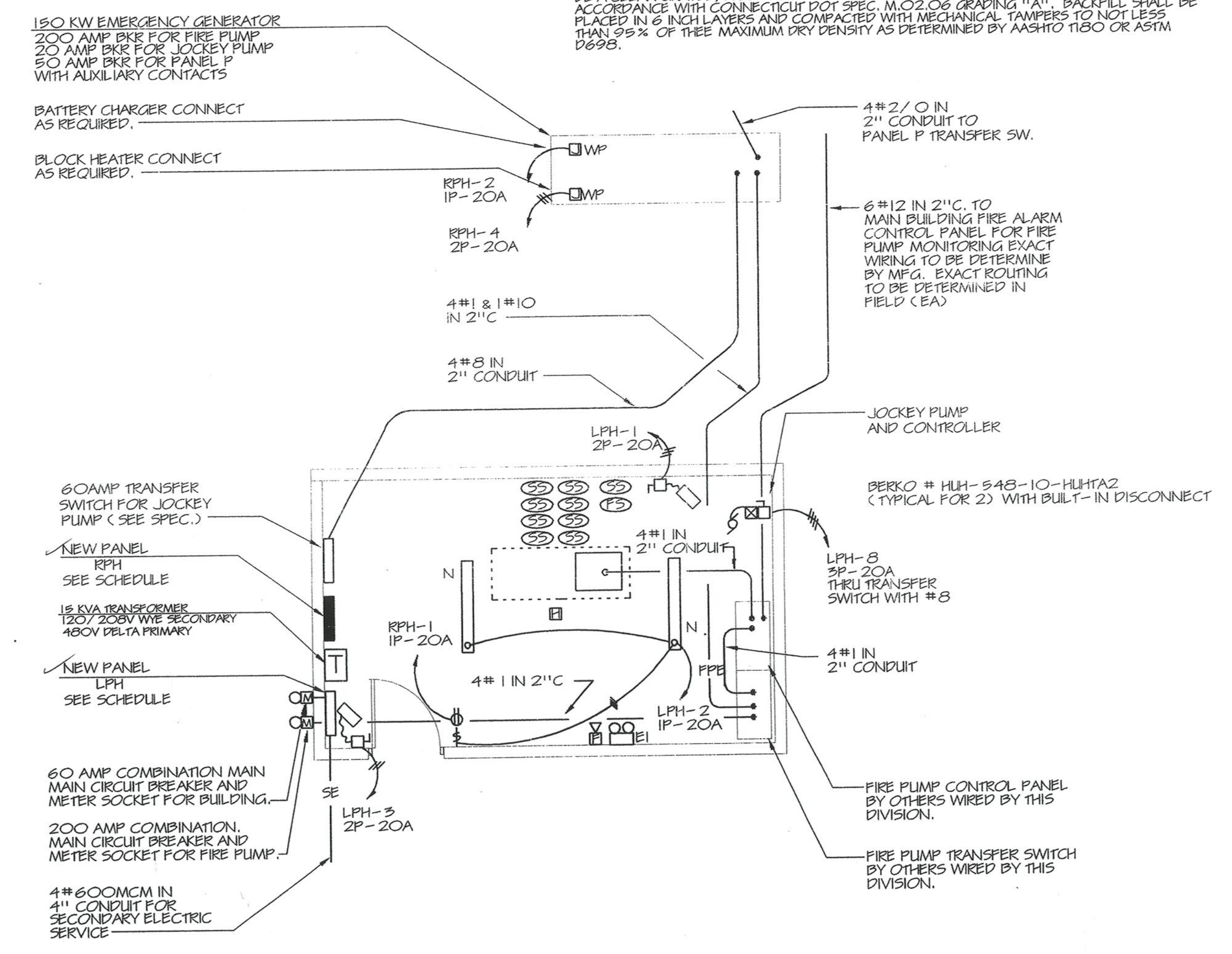


4 TYPE "P" EXTERIOR LIGHTING
NOT TO SCALE



3 TRANSFORMER PAD DETAIL
NO SCALE

- NOTES:
- CONCRETE PAD BY G.C. AS PER NORTHEAST UTILITY REQUIREMENTS.
 - DIVISION 16 SHALL BE RESPONSIBLE FOR CONFIRMING ALL DIMENSIONS WITH NORTHEAST UTILITIES.
 - EXCAVATION FOR PAD SHALL BE CARRIED TO A DEPTH OF 12 INCHES BELOW THE BOTTOM OF THE PAD WALLS. THE BACKFILL UNDER THE PAD WALLS SHALL BE A CLEAN GRAVEL FREE FROM FOREIGN MATTER AND CONSTRUCTION DEBRIS, AND IN ACCORDANCE WITH CONNECTICUT DOT SPEC. M.C.20.05 GRADING 1A1. BACKFILL SHALL BE PLACED IN 6 INCH LAYERS AND COMPACTED WITH MECHANICAL TAMPERS TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY AASHTO T160 OR ASTM D698.



2 ELECTRICAL PART PLAN FIRE PUMP HOUSE
SCALE: NONE

COORDINATE WITH LOCAL UTILITY COMPANY EXTENDING NEW PRIMARY CABLE FOR FEEDING RELOCATED TRANSFORMER PROVIDE ALL CONDUIT AS REQUIRED AND INCLUDE ALL UTILITY COMPANY CHARGES IN BID

EXISTING TRANSFORMER TO BE REMOVED AND RELOCATED BY UTILITY COMPANY COORDINATE WITH LOCAL UTILITY COMPANY INCLUDE ALL UTILITY COMPANY CHARGES IN BID. REMOVE PAD AND SECURE ALL CONDUIT AND WIRING BELOW GRADE

0.2 FOOT CABLE AT INDICATED LOCATION (TYPICAL)

NEW TRANSFORMER PAD PER UTILITY COMPANY REQUIREMENTS (SEE DETAIL.) FOR RELOCATED TRANSFORMER. TRANSFORMER RELOCATED BY LOCAL UTILITY COMPANY. INCLUDE ALL UTILITY COMPANY CHARGES IN BID.

LA-5 2P-20A W/ #10 THRU TIME CLOCK

NEW SECONDARY ELECTRIC SERVICE FOR TEMPORARY CLASSROOMS #116-600MCM IN 4" C. FIELD COORDINATE ROUTING AND SIZE.



1 ELECTRICAL SITE PLAN
SCALE: 1" = 60'

- NOTES:
- ALL TRENCHING AND BACK FILLING BY G.C.
 - PROVIDE CONCRETE ENCASUREMENT OF ALL UTILITIES BELOW PAVED AREAS AND WHEN CROSSING OTHER UTILITIES. PROVIDE ENCASUREMENT OF BUILDING PRIMARY UNDER NEW GYMNASIUM.
 - ALL CONCRETE ENCASUREMENT SHALL BE BY G.C.
 - PRELIMINARY ROUTING OF UTILITIES INDICATED. THIS CONTRACTOR SHALL COORDINATE FINAL ROUTING WITH LOCAL UTILITY COMPANIES PRIOR TO BID AND INCLUDE ALL UTILITY COMPANY CHARGES OF CABLE TELEVISION ELECTRIC POWER AND TELEPHONE SERVICE
 - DISCONNECT EXISTING SEWAGE EJECTOR AT SOURCE FURNISH AND INSTALL LIFTION BOX W/ BLANK COVER PLATE AND EXTEND MATCHING WIRE (INCREASE WIRE SIZE AND CONDUIT SIZE TO ACCOMMODATE VOLTAGE DROP PER NEC.) AND CONDUIT TO NEW PANEL P LOCATED IN THE EXISTING BOILER ROOM.
 - DISCONNECT EXISTING WELL PUMPS (9) AT SOURCE FURNISH AND INSTALL LIFTION BOX W/ BLANK COVER PLATE AND EXTEND MATCHING WIRE (INCREASE WIRE SIZE AND CONDUIT SIZE TO ACCOMMODATE VOLTAGE DROP PER NEC.) AND CONDUIT TO NEW PANEL P LOCATED IN THE EXISTING BOILER ROOM.

PROVIDE 3 SPARE 4" SCHEDULE 40 PVC UNDER NEW CONSTRUCTION AND ENCASE IN 3" OF CONCRETE

APPROX. LOCATION EXIST. WATER SUPPLY SYSTEM AREA

EXISTING PAD MOUNTED TRANSFORMER TO REMAIN

WATER VALVE

WATER VALVE

WATER VALVE

EMERGENCY GENERATOR SEE SPECIFICATION

PUMP HOUSE SEE PART PLAN THIS DRAWING

4" 600 MCM IN 4" SCHEDULE 40 PVC FOR INCOMING SECONDARY ELECTRIC SERVICE BY E.C.

POLE RISER BY E.C.

NEW POLE MOUNTED TRANSFORMER BY UTILITY CO.

EXISTING RISER POLE

EXISTING OVERHEAD PRIMARY ELECT.

2" 10 IN 5/4" C TO EXISTING IP-20A SPARE CIRCUIT BREAKER IN PANEL PFD (PROVIDE NEW TIME CLOCK TORX 73002)

LA-5 IP-20A W/ #10 THRU TIME CLOCK

EMERGENCY GENERATOR SEE SPECIFICATION

PUMP HOUSE SEE PART PLAN THIS DRAWING

150 KW EMERGENCY GENERATOR
200 AMP BKR FOR FIRE PUMP
20 AMP BKR FOR JOCKEY PUMP
50 AMP BKR FOR PANEL P WITH AUXILIARY CONTACTS

BATTERY CHARGER CONNECT AS REQUIRED.

BLOCK HEATER CONNECT AS REQUIRED.

RPH-2 IP-20A

RPH-4 2P-20A

4" 2" 1" 10 IN 2" C

4" 2" 1" 10 IN 2" C

4" 2" 1" 10 IN 2" C

4" 2" 1" 10 IN 2" C

60 AMP TRANSFER SWITCH FOR JOCKEY PUMP (SEE SPEC.)

NEW PANEL RPH SEE SCHEDULE

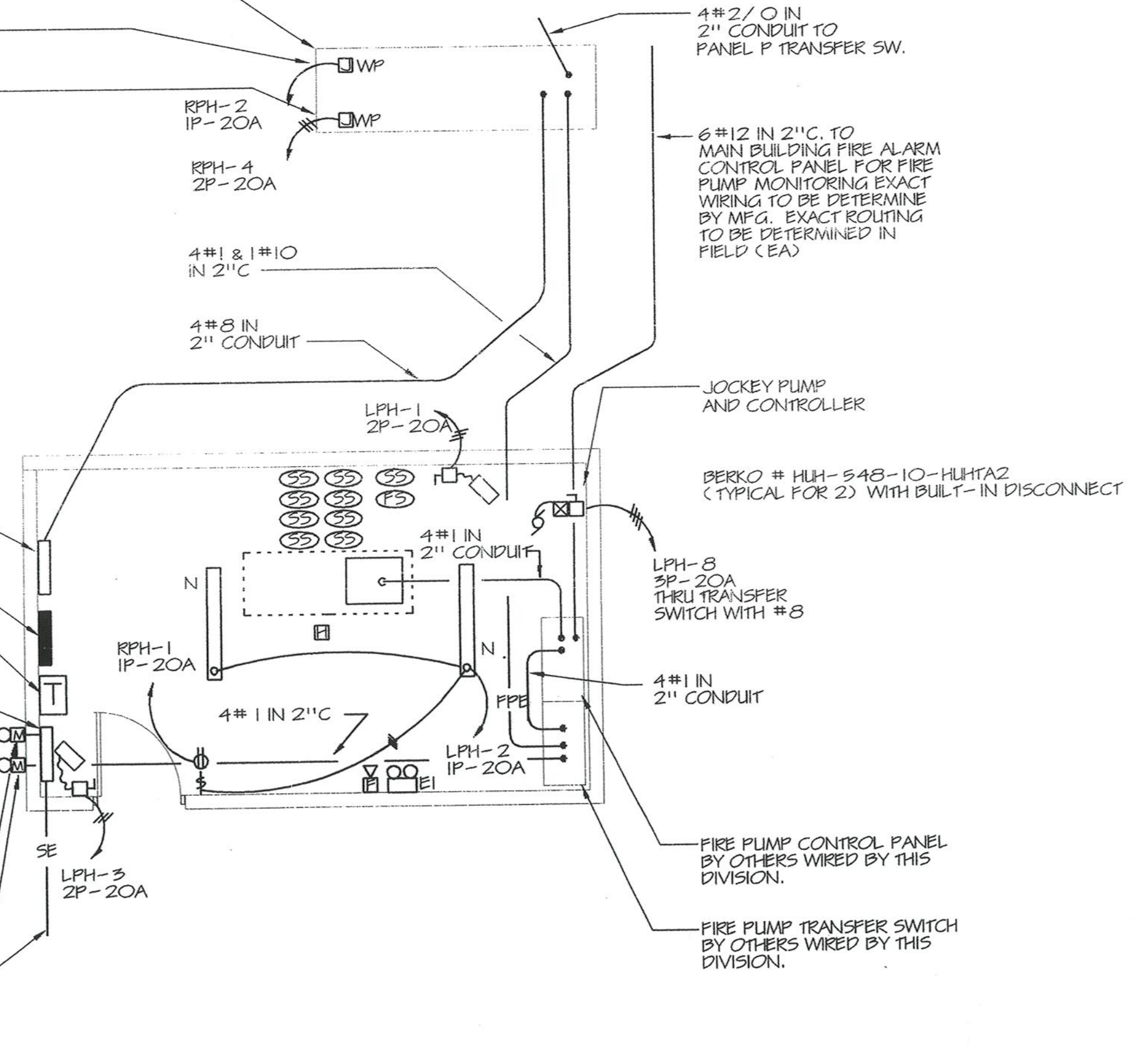
15 KVA TRANSFORMER 120/208V W/ SECONDARY 480V DELTA PRIMARY

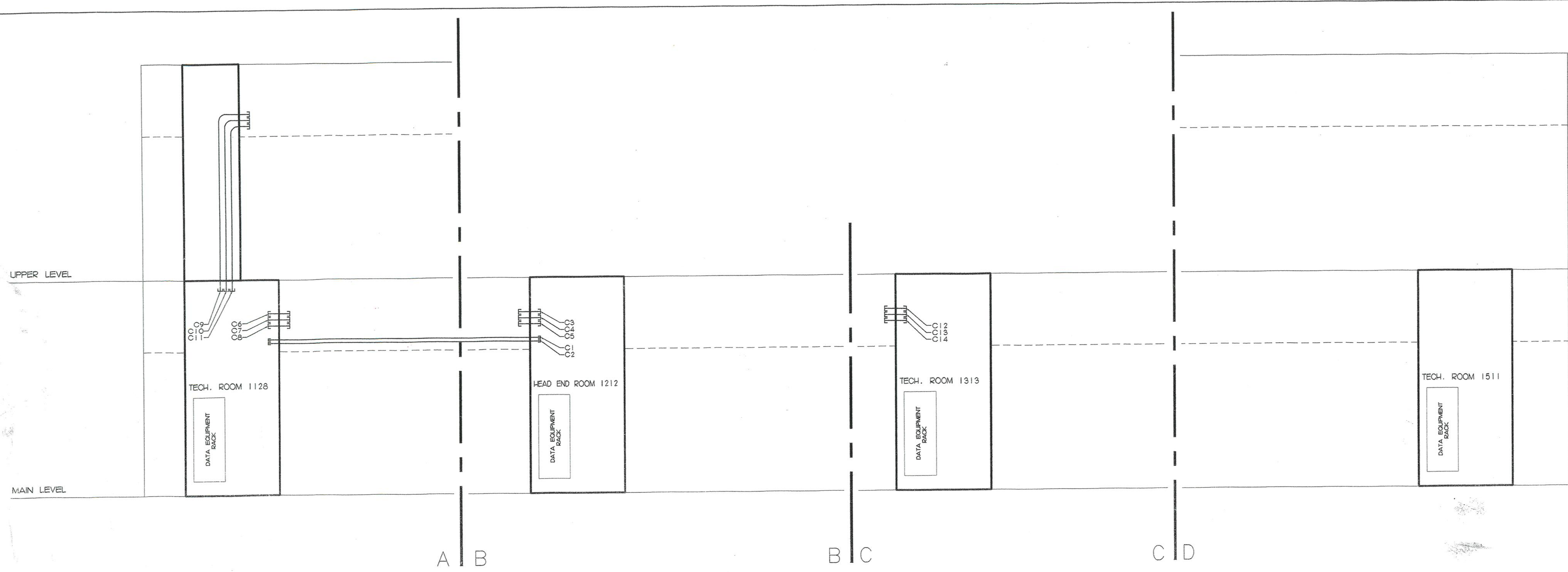
NEW PANEL LPH SEE SCHEDULE

60 AMP COMBINATION MAIN MAIN CIRCUIT BREAKER AND METER SOCKET FOR BUILDING

200 AMP COMBINATION MAIN CIRCUIT BREAKER AND METER SOCKET FOR FIRE PUMP

4" 600MCM IN 4" CONDUIT FOR SECONDARY ELECTRIC SERVICE





1 DATA AND VIDEO CONDUIT RISER DIAGRAM
NOT TO SCALE

NOTE:
 1) THIS ONE LINE DIAGRAM REPRESENTS ONLY THE PRIMARY CONDUITS REQUIRED FOR THE SUPPORT OF THE COMMUNICATIONS SYSTEMS. THIS DIAGRAM DOES NOT REPRESENT EVERY CONDUIT THAT IS TO BE INSTALLED BY THE ELECTRICAL CONTRACTOR.
 2) ALL CONDUITS ARE TO BE INSTALLED BY SECTION 16000.
 3) FOR ADDITIONAL CABLE SUPPORT REQUIREMENTS, REFER TO SPECIFICATION SECTION 16740, 2. REFER TO COMMUNICATIONS PLANS FOR EXACT ROOM AND CHASE LOCATIONS. CHASES MAY NOT BE LOCATED EXACTLY AS SHOWN ON RISER DIAGRAM.
 4) FOR CONDUITS FROM THE SERVICE MANHOLE TO THE TELESCOPY ENTRANCE, REFER TO ELECTRICAL DRAWINGS.

GENERAL NOTES:
 1. CONTRACTOR IS TO USE THE L5-20R RECEPTACLE MOUNTED ON CABLE TRAY FOR POWERING OF ALL EQUIPMENT IN THE EQUIPMENT RACKS.
 2. ALL DATA AND VIDEO CABLES ARE TO BE ROUTED THROUGH THE OVER-HEAD CABLE TRAY. NO CABLES MAY BE RUN ALONG THE FLOOR SURFACE.
 3. ALL CABLE TRAY IS TO BE PROVIDED BY 16000.
 4. SYSTEMS CONTRACTOR SHALL COORDINATE ALL EXISTING SITE CONDITIONS BEFORE CONSTRUCTION. NOTIFY ARCHITECT, IN WRITING, OF ANY CONFLICTS.

LEGEND:
 [Symbol] DUPLEX ELECTRICAL OUTLET WITH 20 AMP DEDICATED AND ISOLATED CIRCUIT. PROVIDED AND INSTALLED BY 16000.
 [Symbol] QUADRUPLE/DOUBLE DUPLEX ELECTRICAL OUTLET WITH 20 AMP DEDICATED AND ISOLATED CIRCUIT. PROVIDED AND INSTALLED BY 16000.
 [Symbol] NEMA TYPE L5-20R ELECTRICAL RECEPTACLE MOUNTED ABOVE EQUIPMENT RACK ON UNDERSIDE OF CABLE TRAY TO RECEIVE NEMA TYPE L5-20P PLUG FROM EQUIPMENT RACK POWER STRIPS AND UNINTERRUPTIBLE POWER SUPPLIES. PROVIDED AND INSTALLED BY 16000. COORDINATE EXACT LOCATION OF OUTLET WITH EQUIPMENT RACK INSTALLER.

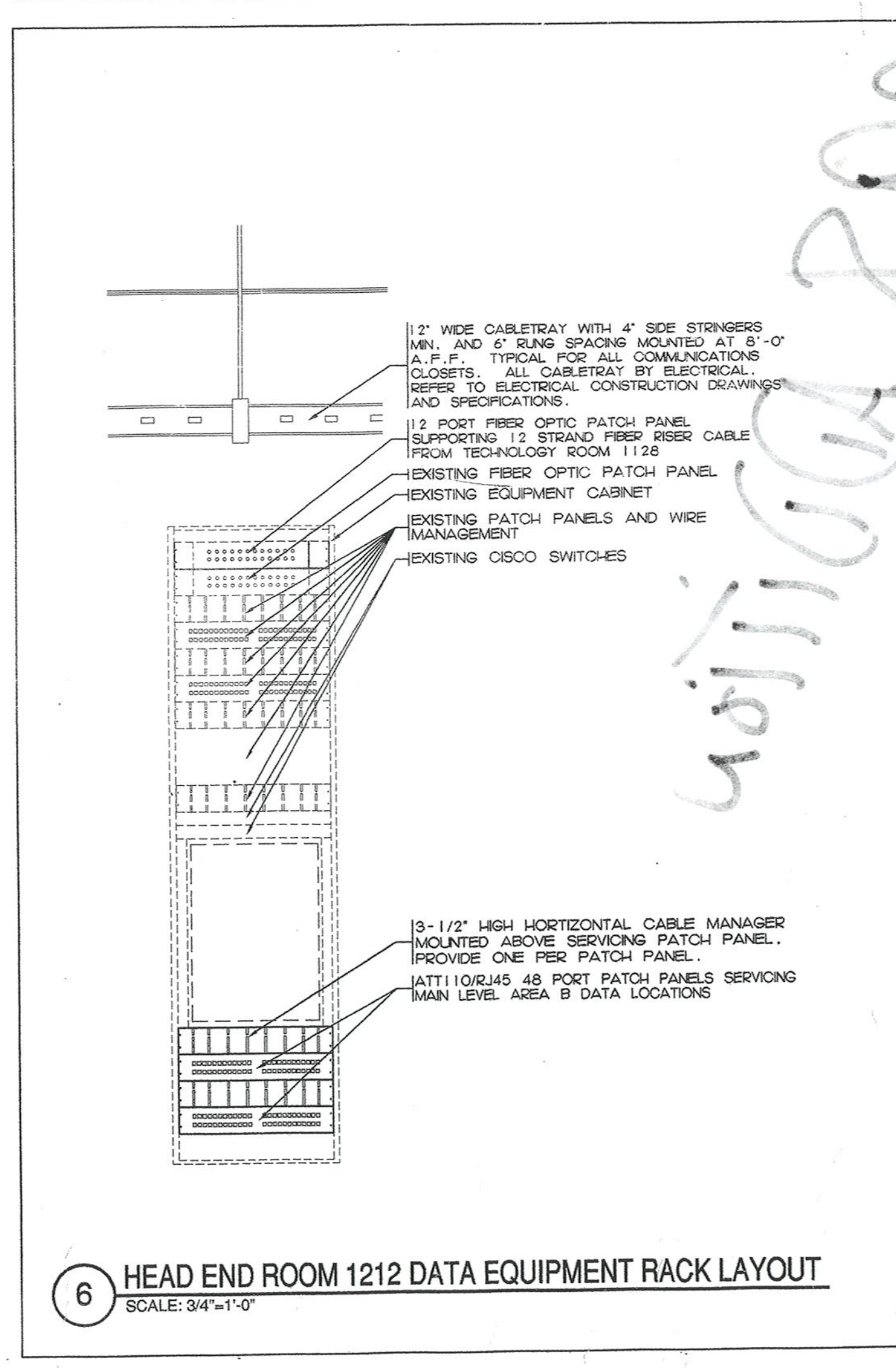
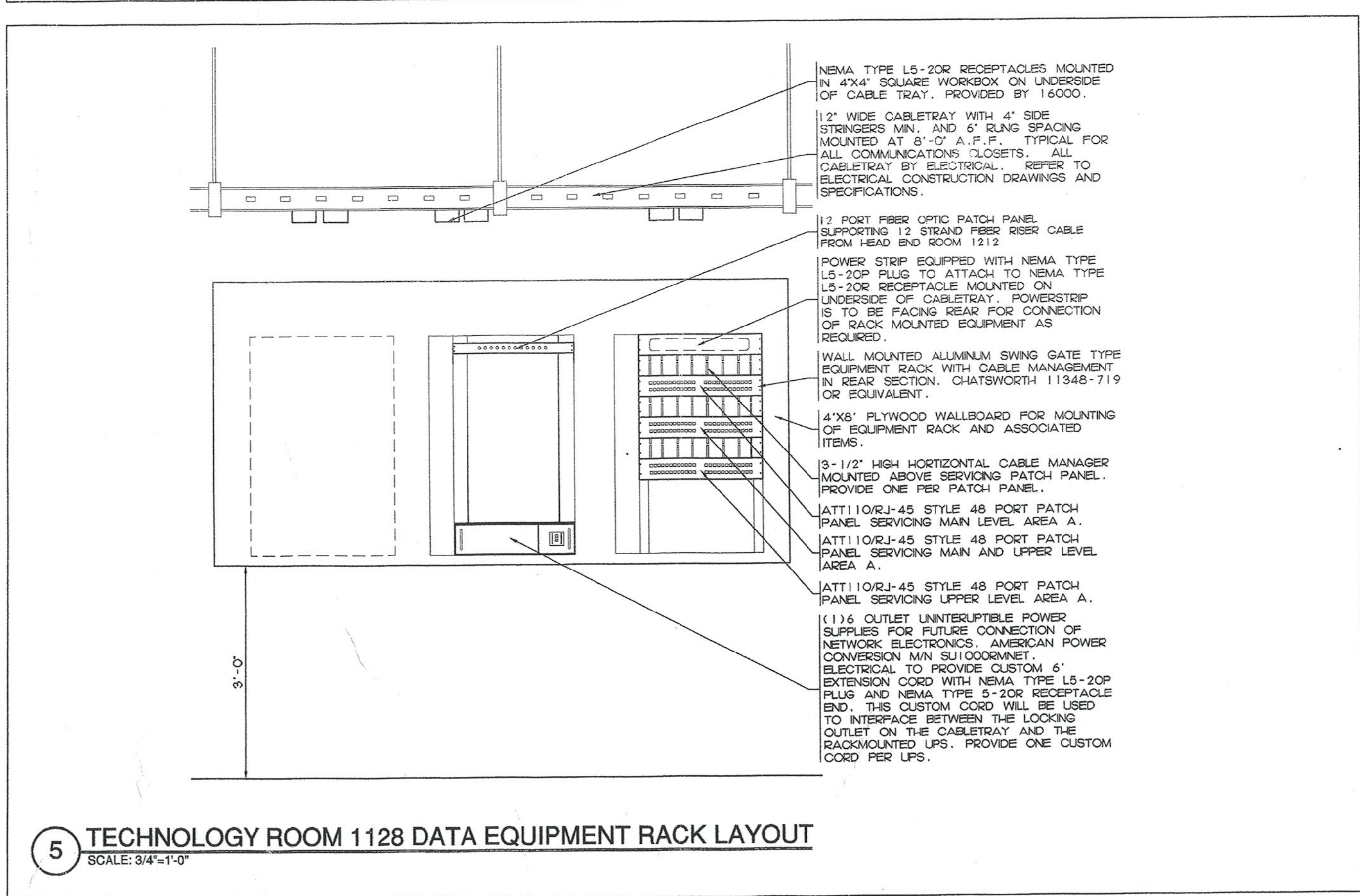
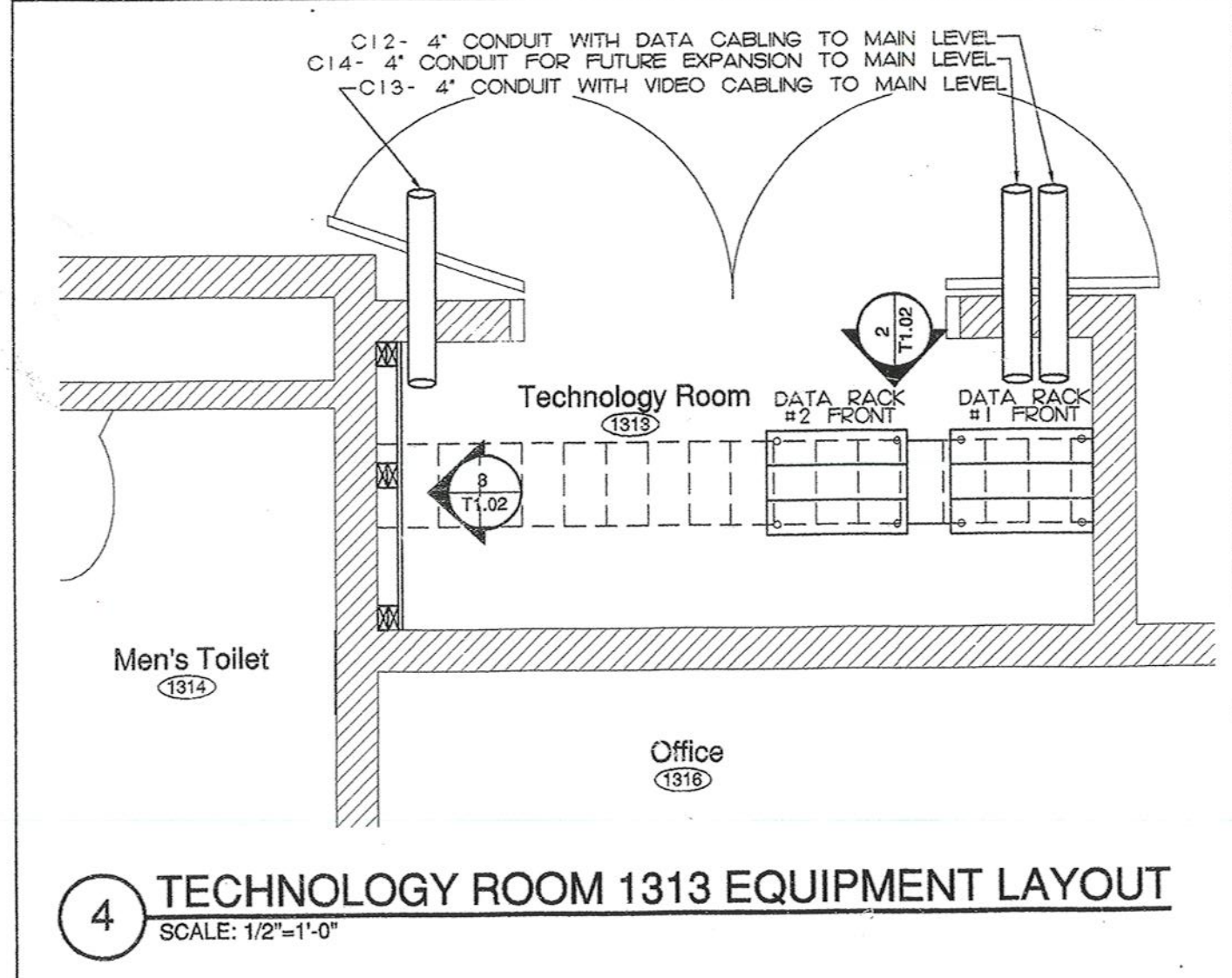
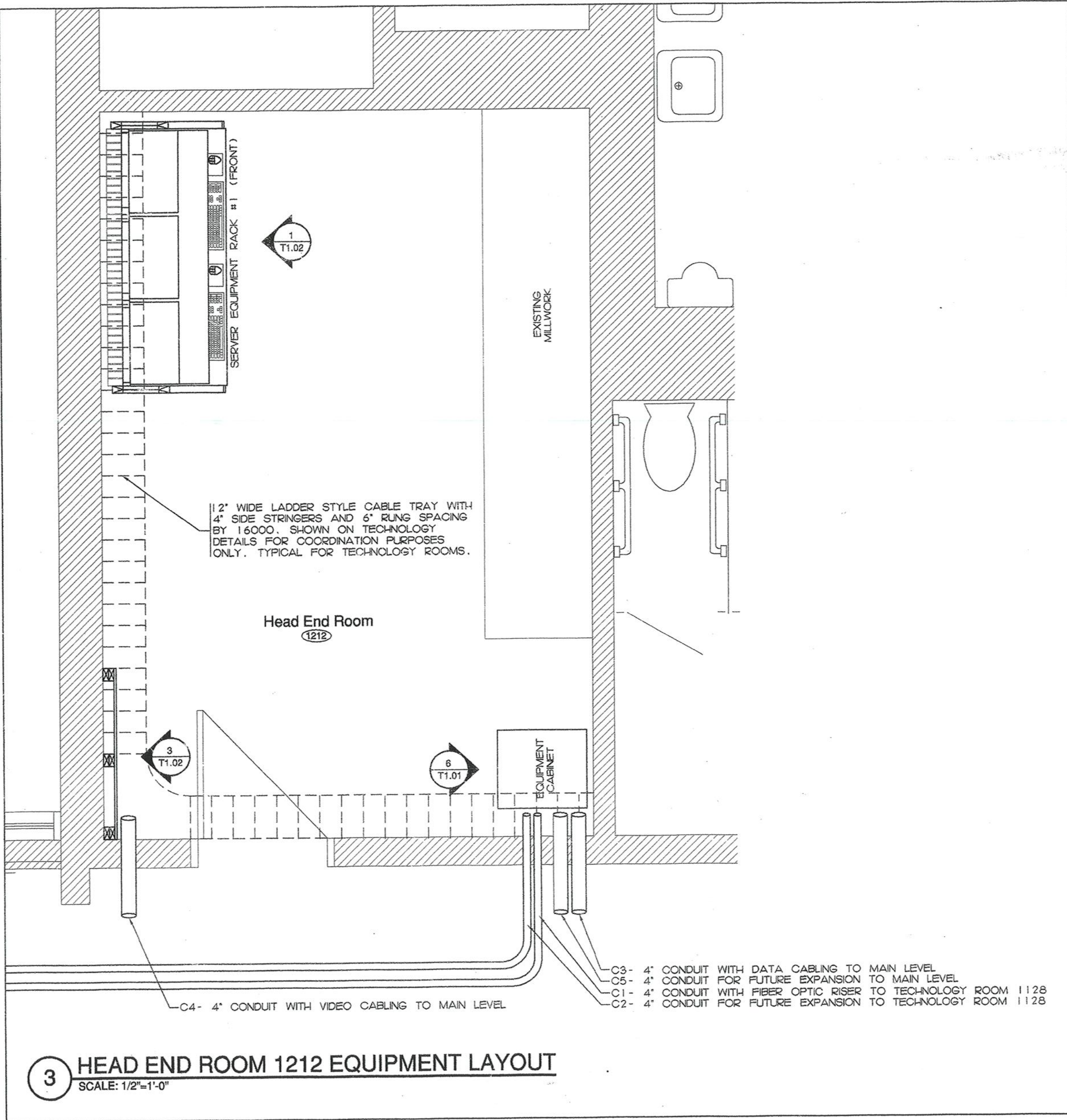
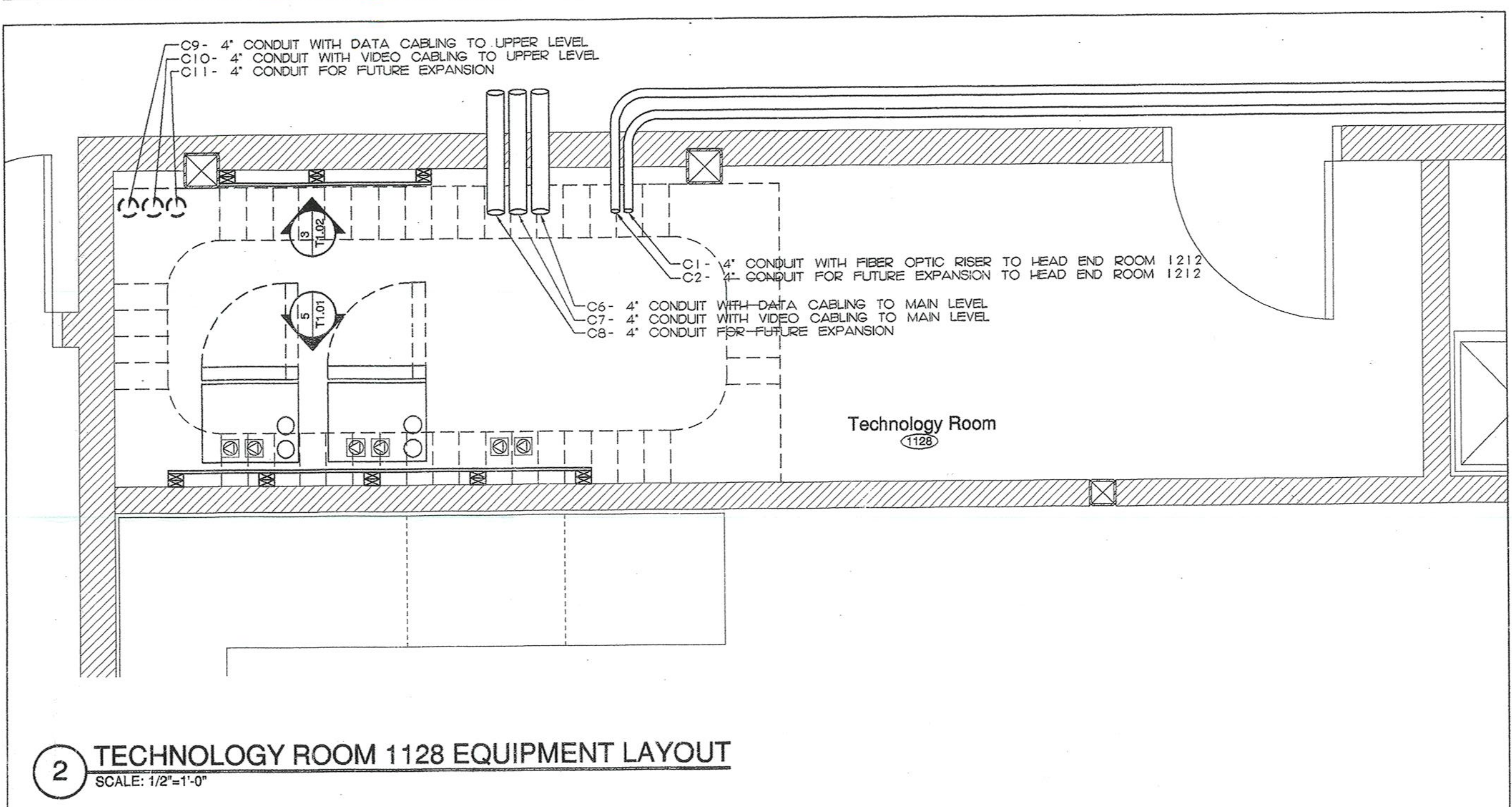
REVISIONS		
DATE	MARK	DESCRIPTION
October 4, 1999		Drawings Issued for Bidding and Construction Purposes

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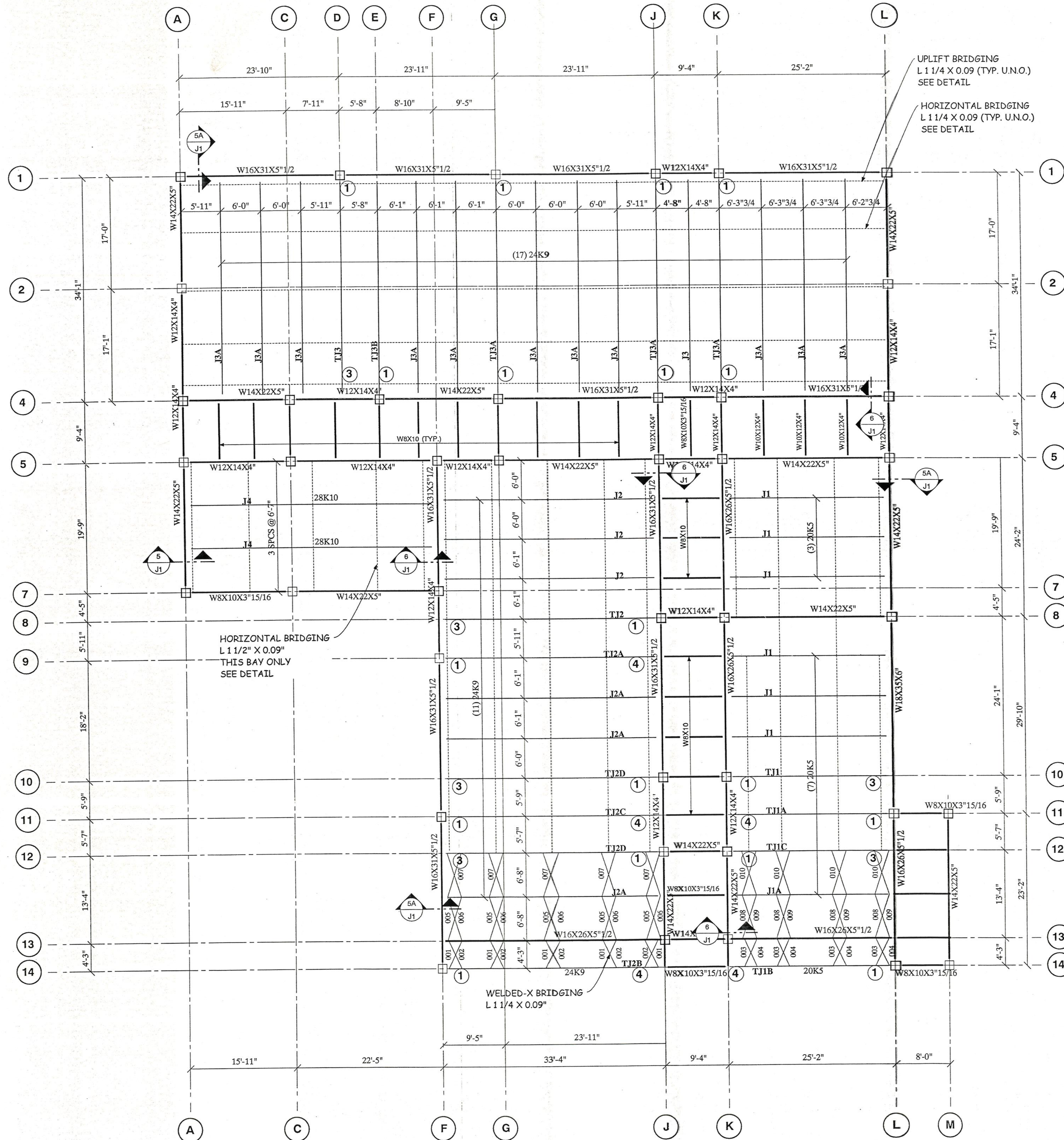


KAESTLE BOOS ASSOCIATES, INC. ARCHITECTS

TECHNOLOGY DETAIL SHEET #1

Project no. 98078 Drawing no. T1.01
 Date: DECEMBER 16, 1998

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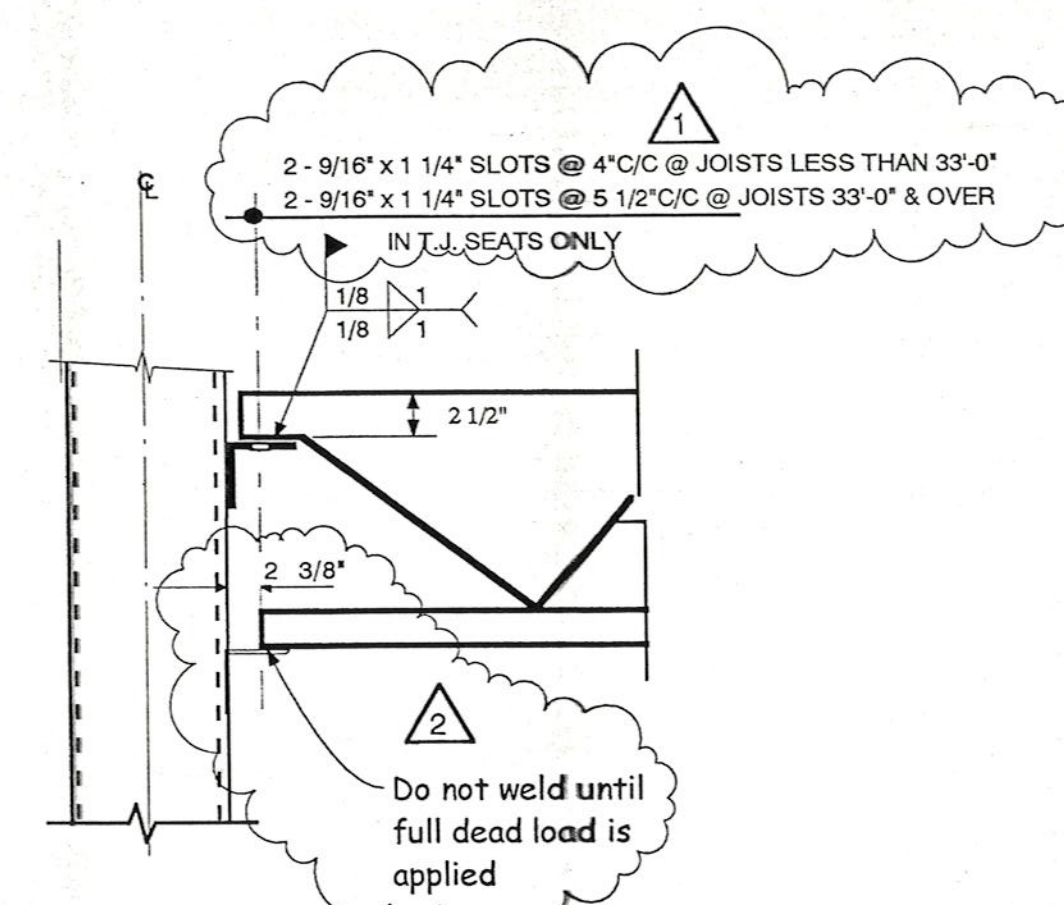
ROOF FRAMING PLAN

GENERAL NOTES:

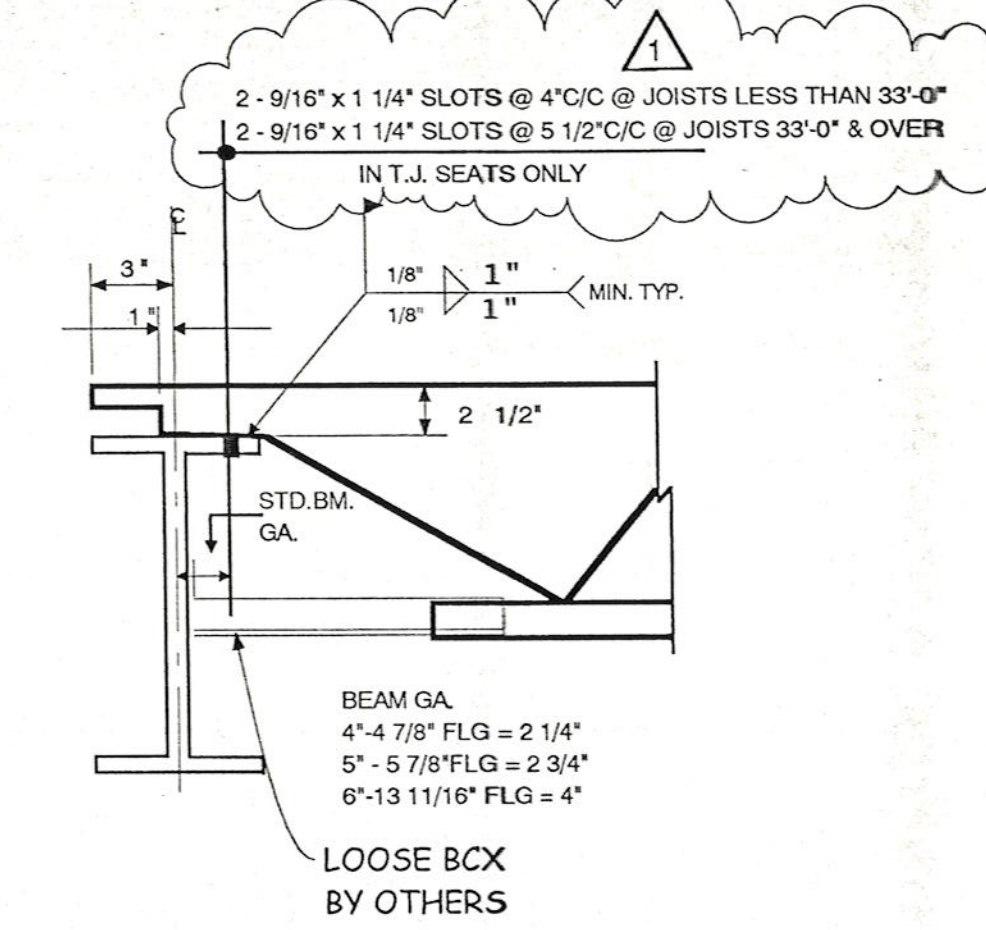
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DEFLECTION = L/240

① INDICATES TIE JOIST DETAIL (SEE J1)

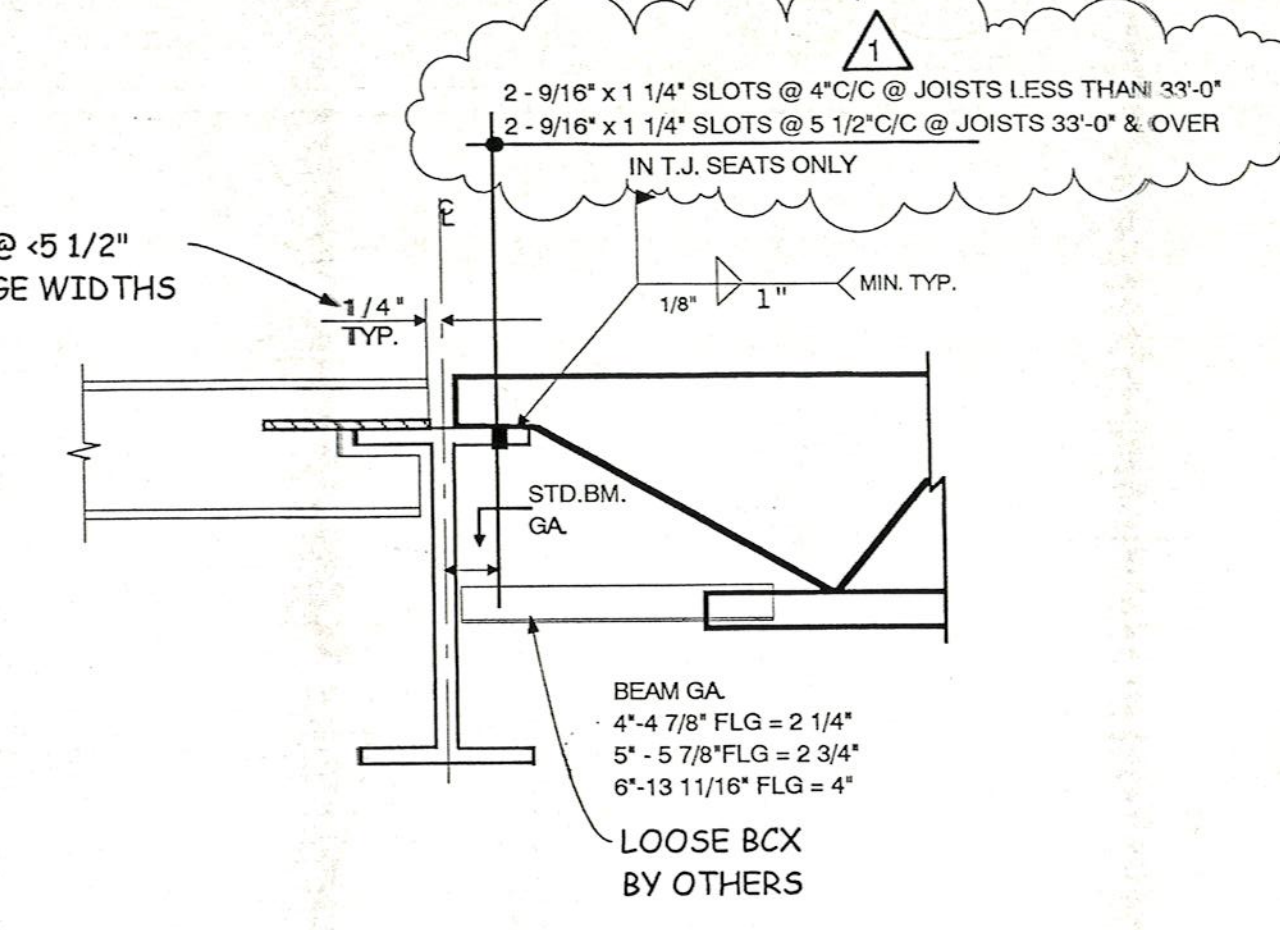
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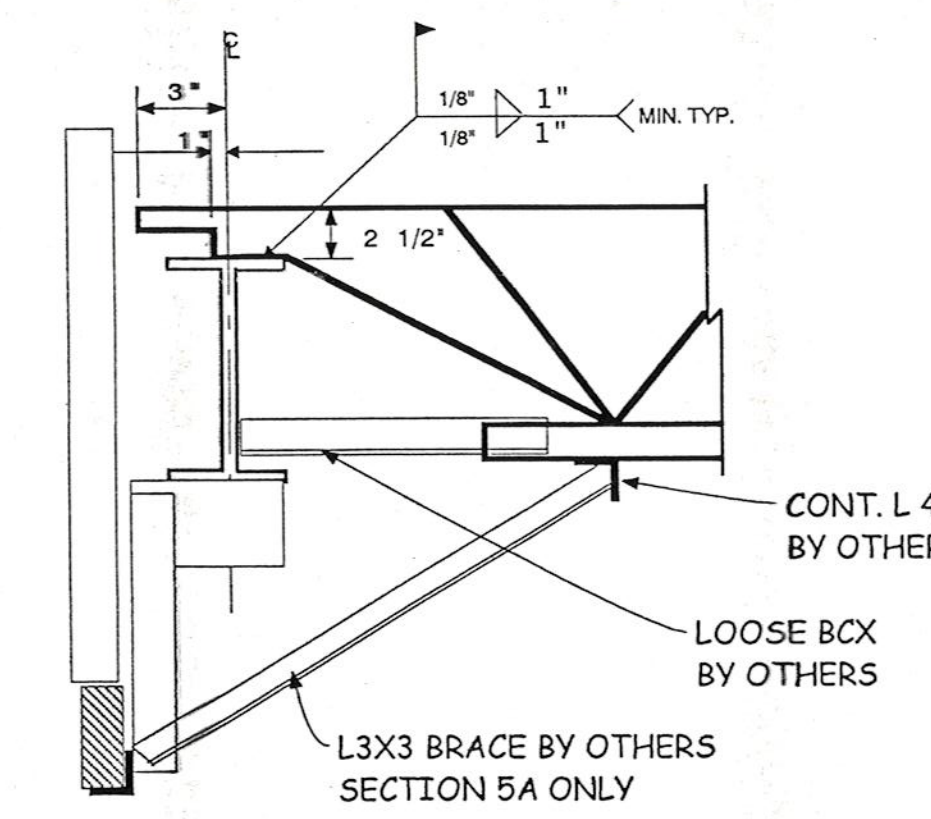
DETAIL 1



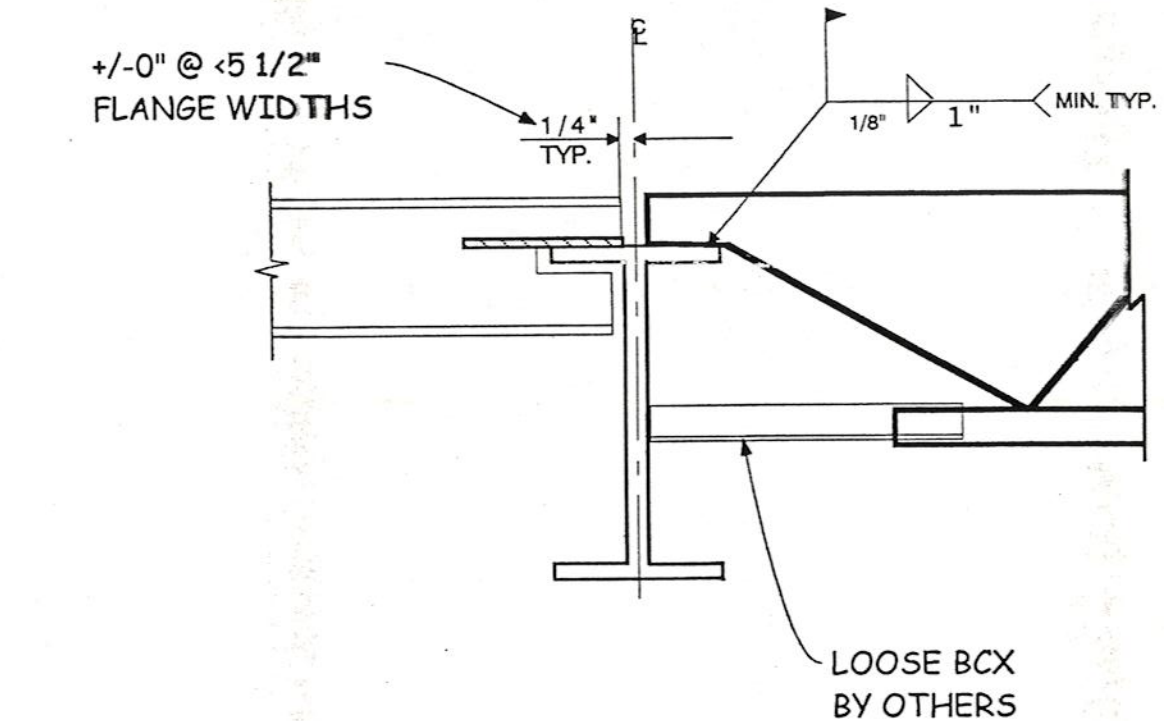
DETAIL 3



DETAIL 4



SECTION 5

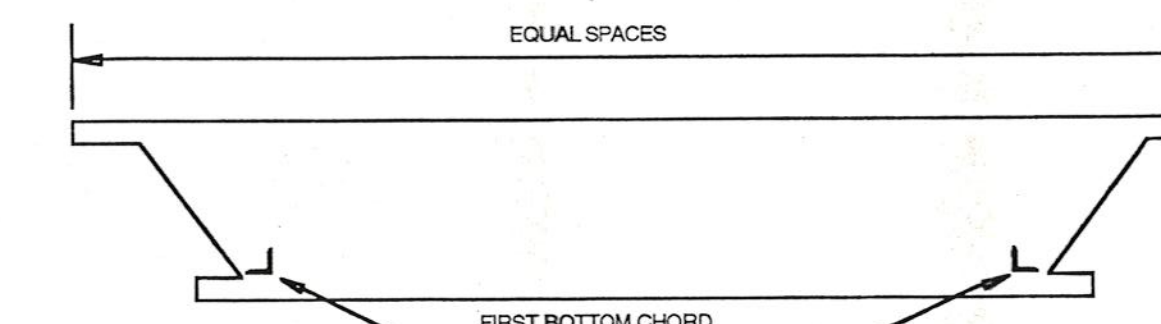


SECTION 6

REQ
03 OCT 2000
REV

FOR CONSTRUCTION

**ORIGINAL
IN RED**

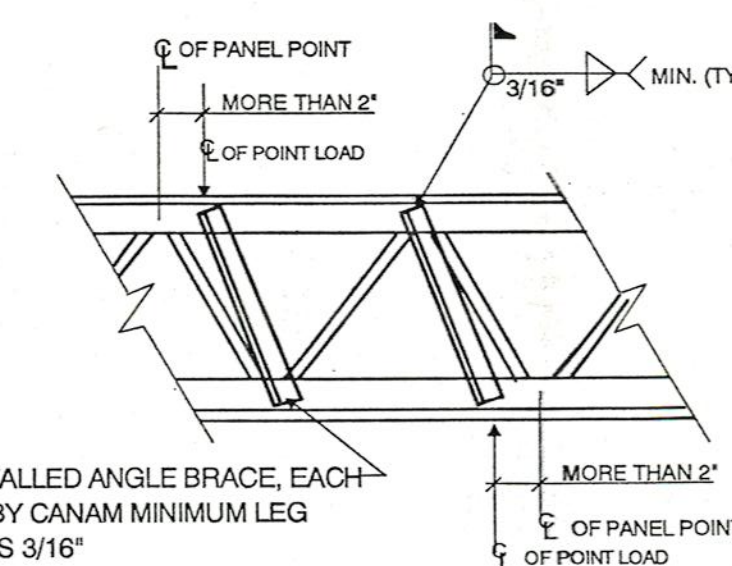


TOP CHORD LENGTH APPROXIMATE CAMBER

ALL JOIST & JOIST GIRDER SHALL HAVE APPROXIMATE CAMBERS IN ACCORDANCE WITH THE FOLLOWING, UNLESS NOTED OTHERWISE ON PLAN

JOIST LENGTH	MINIMUM CAMBER	MAXIMUM CAMBER
20'-0"	1/4"	6mm
30'-0"	3/8"	10mm
40'-0"	5/8"	16mm
50'-0"	1"	25mm
60'-0"	1 1/2"	38mm
70'-0"	2"	51mm
80'-0"	2 3/4"	70mm
90'-0"	3 1/2"	89mm
100'-0"	4 1/4"	108mm
110'-0"	5"	127mm
120'-0"	6"	152mm
130'-0"	7"	178mm
140'-0"	8"	203mm
144'-0"	8 1/2"	216mm

TYP. UPLIFT BRDG. DETAIL



TYP. JOIST REINFORCEMENT DETAIL AT CONCENTRATED LOADS NOT SHOWN ON PLAN

WHENEVER POSSIBLE CONCENTRATED LOADS SHOULD BE PLACED @ JOIST PANEL POINTS. WHEN LOADS CANNOT BE APPLIED @ A PANEL POINT FIELD REINFORCEMENT IS REQUIRED AS SHOWN. THIS IS TO ALLEVIATE LOCAL BENDING ONLY AND THIS LOAD MUST STILL BE CONSIDERED IN THE JOIST DESIGN.

ERECTOR NOTE!
BACK CHARGES FOR REPAIRS OR ALTERATIONS TO OUR WORK WILL NOT BE ACCEPTED UNLESS APPROVED BY CANAM STEEL
508-238-4500

HANDLING AND ERECTION NOTES
THE BUYER AND/OR ERECTOR SHALL CHECK MATERIALS ON ARRIVAL AT JOB SITE AND PROMPTLY REPORT TO SELLER ANY DISCREPANCIES AND/OR DAMAGES. THE BUYER AND/OR ERECTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE APPLICABLE STEEL JOIST INSTITUTE SPECIFICATIONS OF LATEST ADOPTION IN THE HANDLING AND ERECTION OF MATERIAL.
FOR THOROUGH COVERAGE OF THIS TOPIC, REFER TO SJI TECHNICAL DIGEST #9, "HANDLING AND ERECTION OF STEEL JOIST AND GIRDERS."

APPROVAL	FABRICATION	FIELD USE

REV. #	DATE	DESCRIPTION
3/28/00		TO APPVL REVISE-SUBMIT
5/2/00		APPVL CHG'S

TITLE: ROOF JOIST FRAMING PLAN	
CUSTOMER:	BRETTON STRUCTURES
ARCHITECT:	KAESTLE BOOS ASSOC.
ENGINEER:	
DRAWN BY:	KDJ
CHECKED BY:	POWER/CAD FILE #
DATE:	2/00

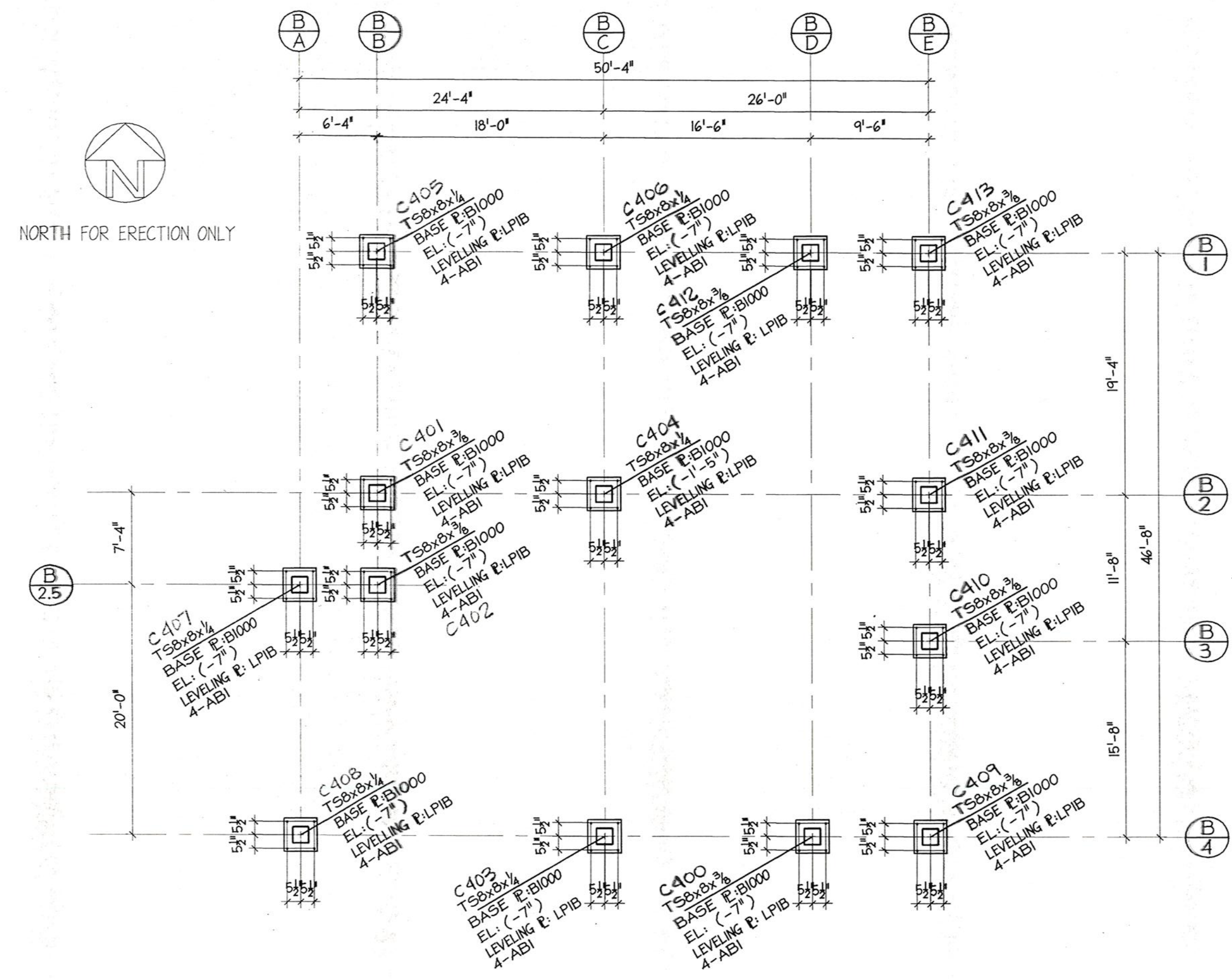
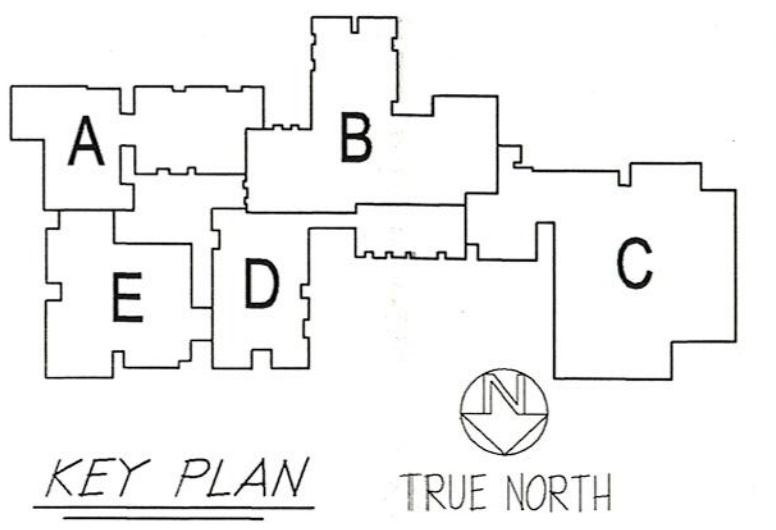
canam steelco.p.
50 EASTMAN ST., EASTON, MA 02334
Phone: (508) 238-4500 Fax: (508) 238-8491
WHISCONIER SCHOOL
BROOKFIELD, CT



canam manac
A00472
J1 of 1

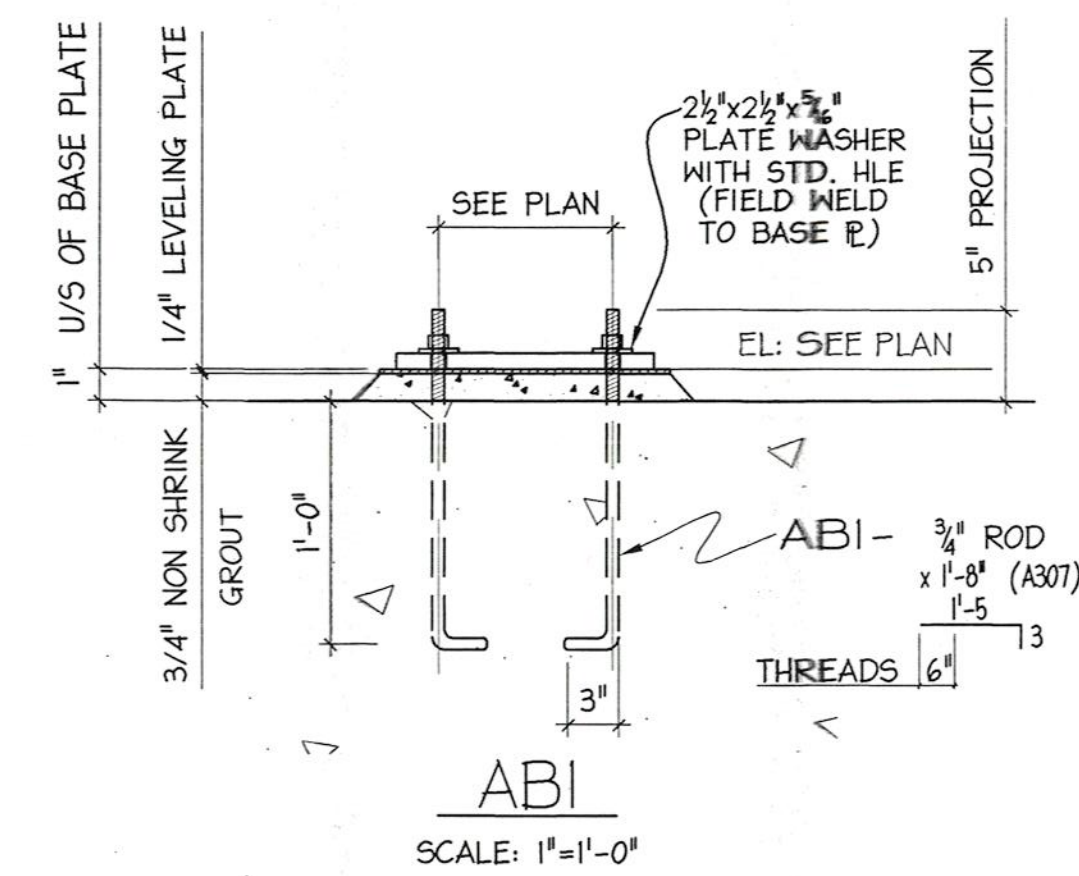
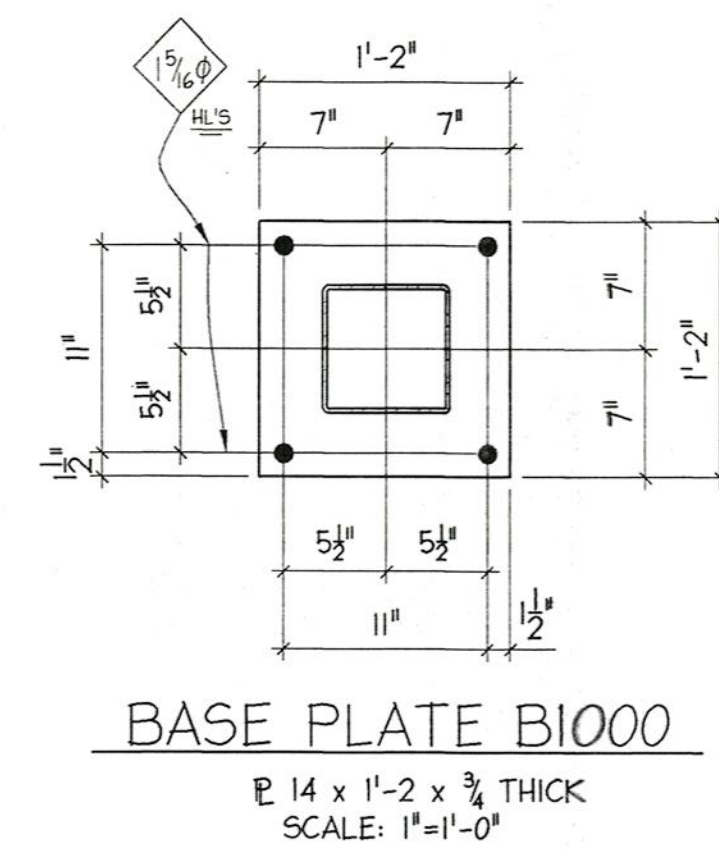
WARRANTY
Revised
03/30/2000
OPERATIONS

REFERENCE S1.02 & S4.01



ANCHOR BOLT SETTING PLAN - AREA B

ALL UNDERSIDE BASE P'S TO BE (-) OF 0'-0" DATUM TYP.



No.	Date	Revision	Init.
2	03-15-00	REV. AS PER APPROVAL	MH
1	12-11-00	POS. MARK ADDED	SB

PROJECT:
 WHISCONIER
 MIDDLE SCHOOL
 BROOKFIELD
 CONNECTICUT

ANCHOR BOLT
 SETTING PLAN AREA B

METAL STRUCTURES

BRETON
 STEEL

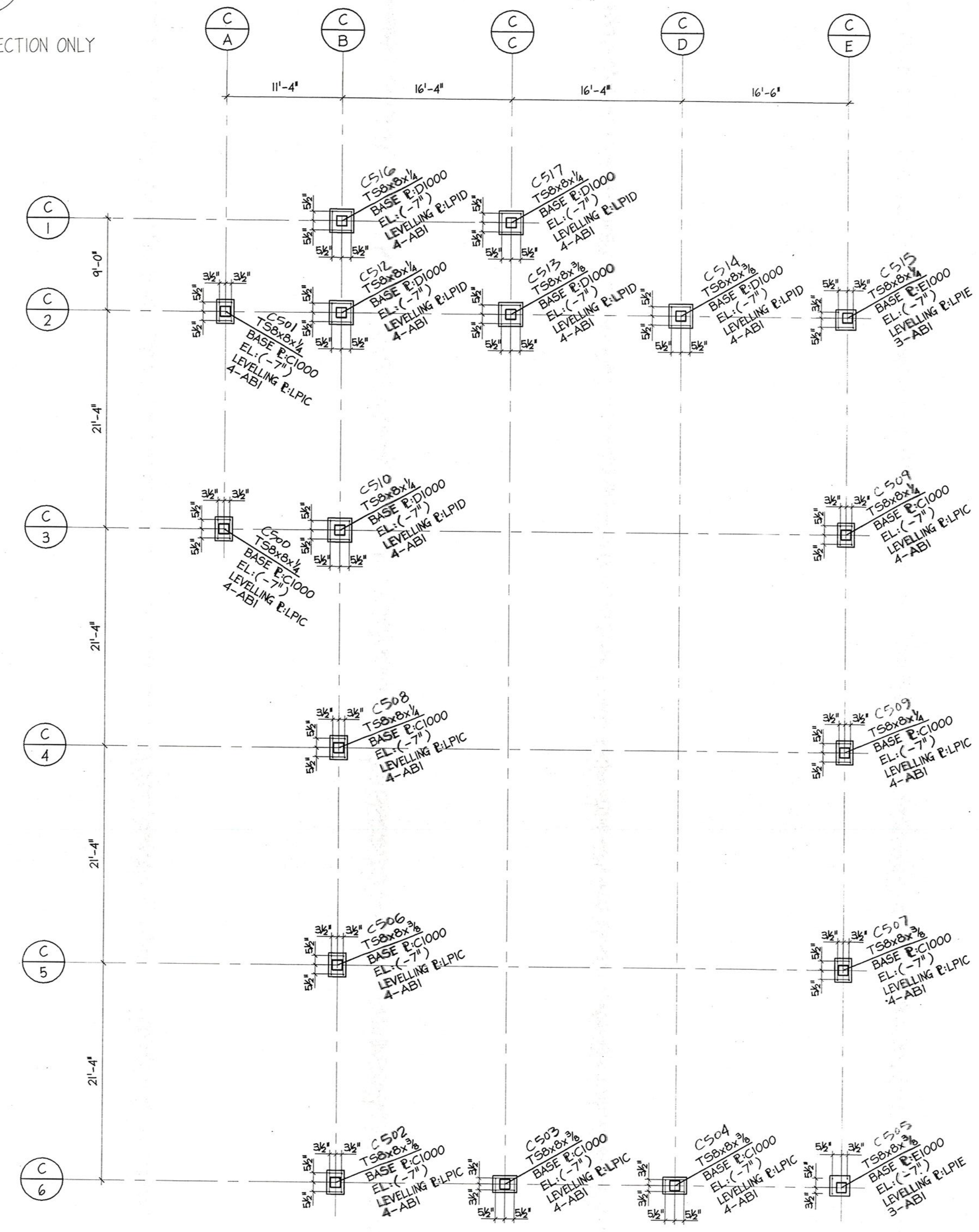
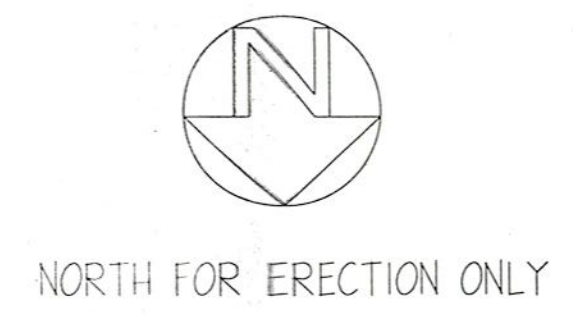
500 Sagarat St. Tel: (460) 663-3999
 St-Bruno, (Quebec) Fax: (460) 663-1963
 internet: bretonsteel.com

FOR CONSTRUCTION

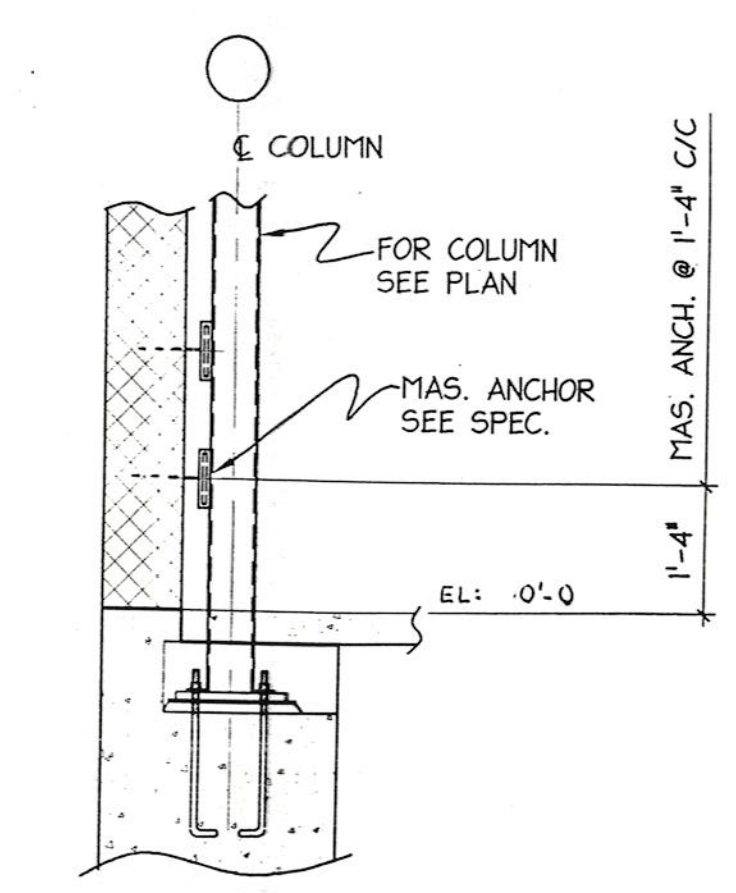
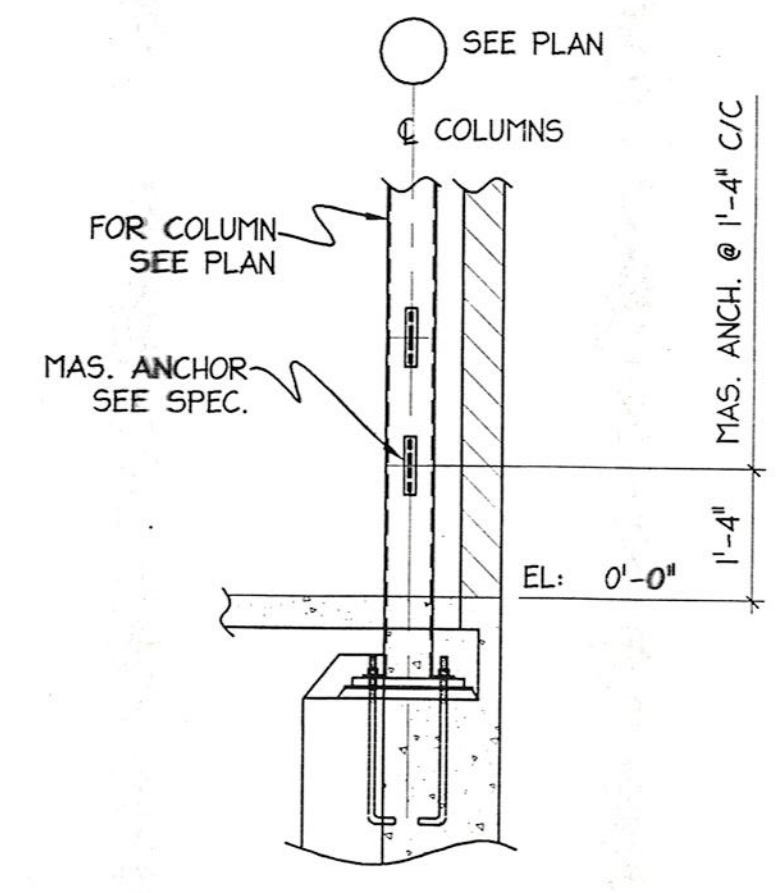
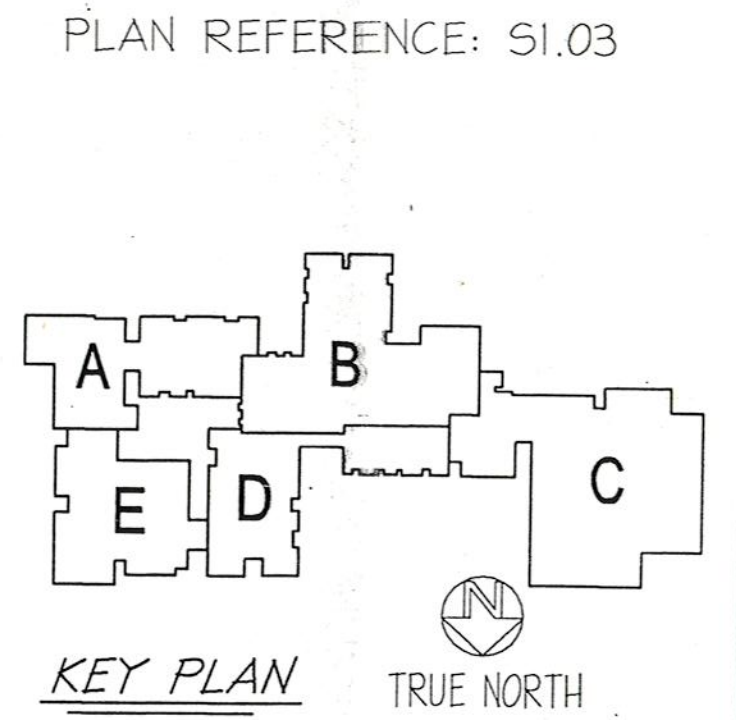
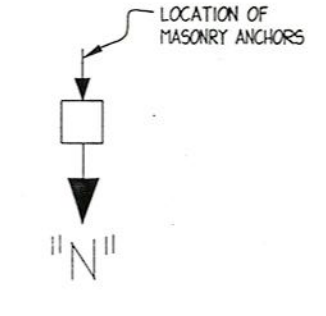


Contract #:	00-500
Drawn by:	R. DORE
Checked by:	
Scale:	1/8" = 1'-0"
Date:	02-03-00

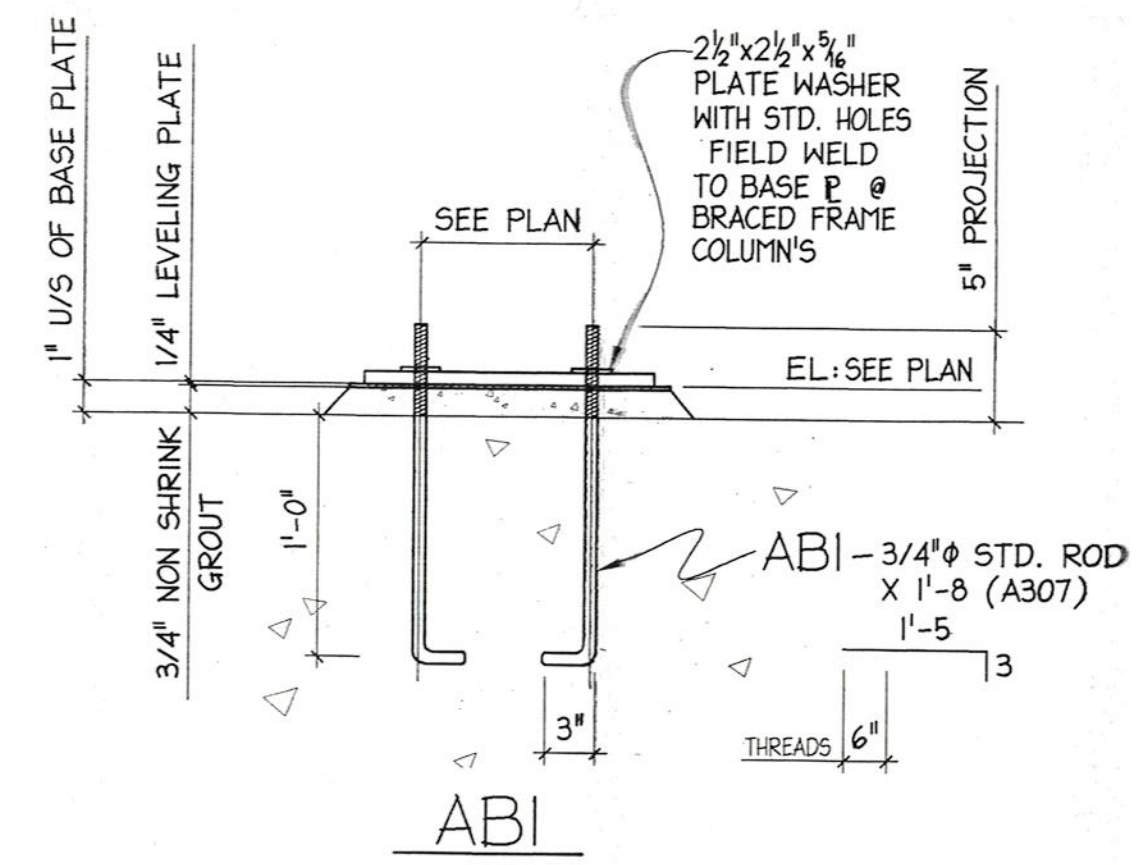
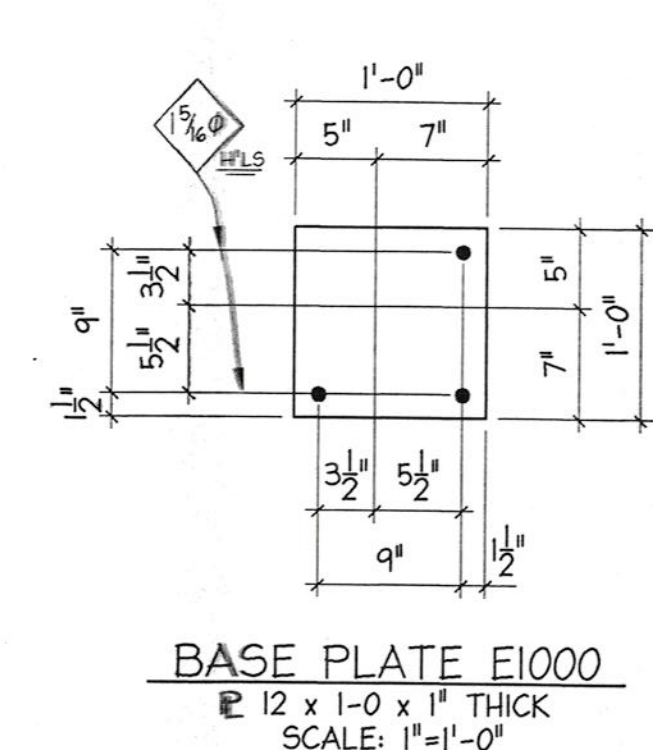
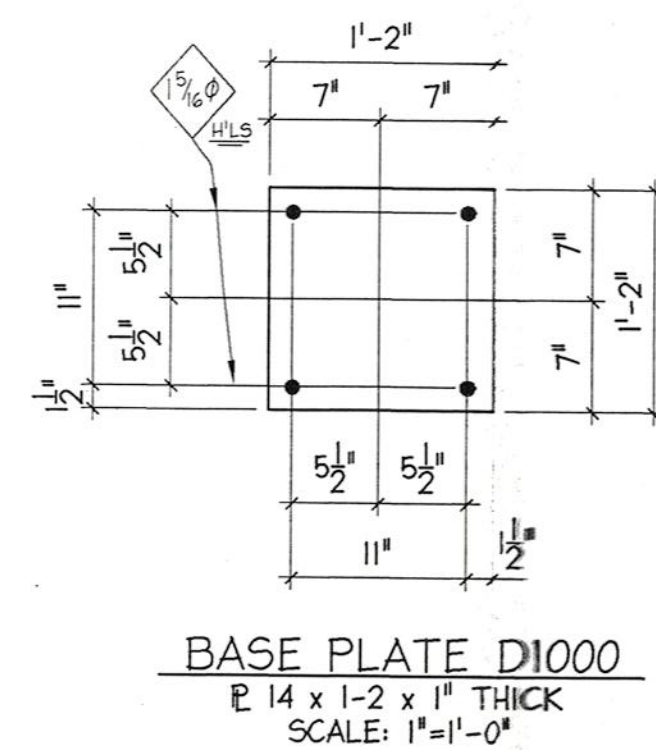
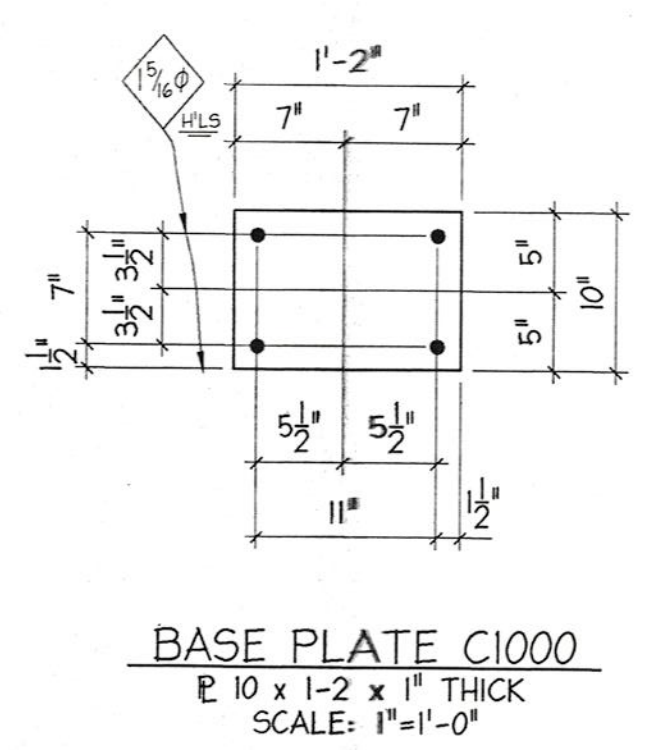
AB2 2



GRID	EL. TO	EL.
A	2	□
	3	□
B	1	□
	2	□
	3	□
	4	□
C	1	□
	2	□
D	2	□
	6	□
E	2	□
	3	□
	6	□



ANCHOR BOLTS SETTING PLAN - AREA C



FOR CONSTRUCTION

No.	Date	Revision	Init.

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

ANCHOR BOLTS
SETTING PLAN

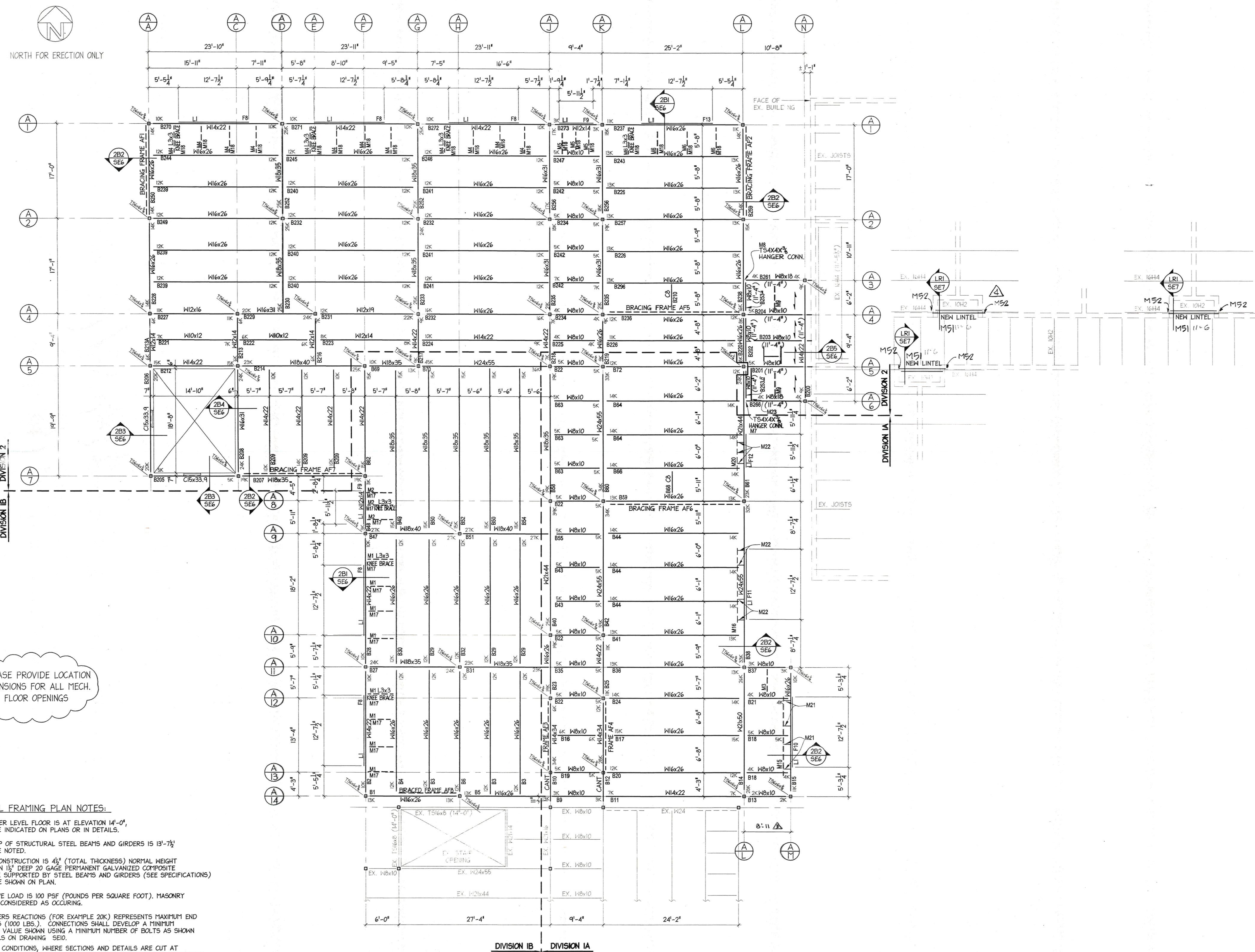
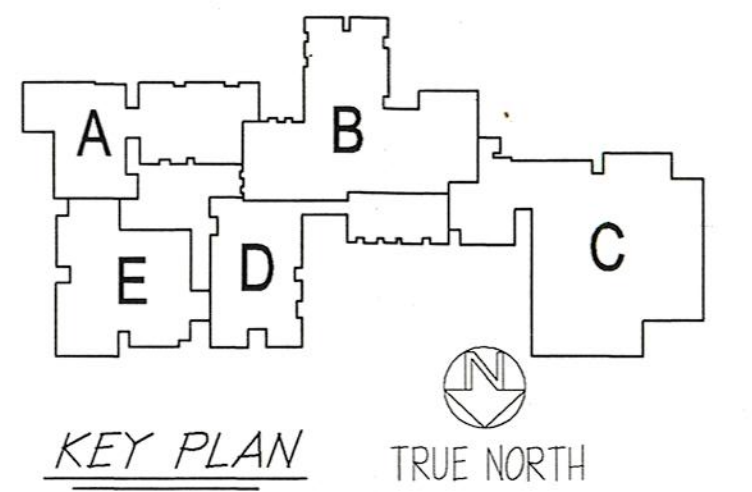
METAL STRUCTURES

BRETON
STEEL

500 Sagard St.
St-Basile, Quebec Tel: (460) 653-9999
Fax: (460) 653-1963
Internet: bretonsteel.com

Contract #: 00-500
Drawn by: MH
Checked by: [Signature]
Scale: 1/8" = 1'-0"
Date: 05-05-00

AB3



PLEASE PROVIDE LOCATION & DIMENSIONS FOR ALL MECH. FLOOR OPENINGS

- UPPER LEVEL FRAMING PLAN NOTES:
1. NEW FINISHED UPPER LEVEL FLOOR IS AT ELEVATION 14'-0", UNLESS OTHERWISE INDICATED ON PLANS OR IN DETAILS.
 2. ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS AND GIRDERS IS 13'-7 1/2" UNLESS OTHERWISE NOTED.
 3. TYPICAL FLOOR CONSTRUCTION IS 4 1/2" (TOTAL THICKNESS) NORMAL HEIGHT CONCRETE SLAB ON 1 1/2" DEEP 20 GAGE PERMANENT GALVANIZED COMPOSITE METAL FORM DECK SUPPORTED BY STEEL BEAMS AND GIRDERS (SEE SPECIFICATIONS) UNLESS OTHERWISE SHOWN ON PLAN.
 4. DESIGN FLOOR LIVE LOAD IS 100 PSF (POUNDS PER SQUARE FOOT). MASONRY PARTITIONS WERE CONSIDERED AS OCCURRING.
 5. BEAMS AND GIRDERS REACTIONS (FOR EXAMPLE 20K) REPRESENTS MAXIMUM END REACTIONS IN KIPS (1000 LBS.). CONNECTIONS SHALL DEVELOP A MINIMUM STRENGTH OF THE VALUE SHOWN USING A MINIMUM NUMBER OF BOLTS AS SHOWN IN TYPICAL DETAILS ON DRAWING SE10.
 6. THE STRUCTURAL CONDITIONS, WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL ALSO APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
 7. FOR BRACING FRAME ELEVATIONS, SEE DRAWING SE4.
 8. FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWINGS SE10 & SE9.

UPPER LEVEL FRAMING PLAN - AREA A

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

FOR CONSTRUCTION

No.	Date	Revision	Init
4	07-05-00	NEW LINTELS IN EXIST. BLDG	SP
3	04-18-00	Dim. Rev. Bem. (1) & (2)	LA
2	03-15-00	REV. AS PER APPROVAL	MH
1	02-24-00	PC'S MARK ADDED	MH

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

UPPER LEVEL
FRAMING PLAN - AREA A

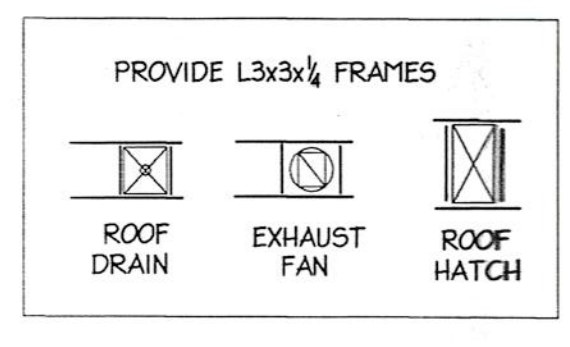
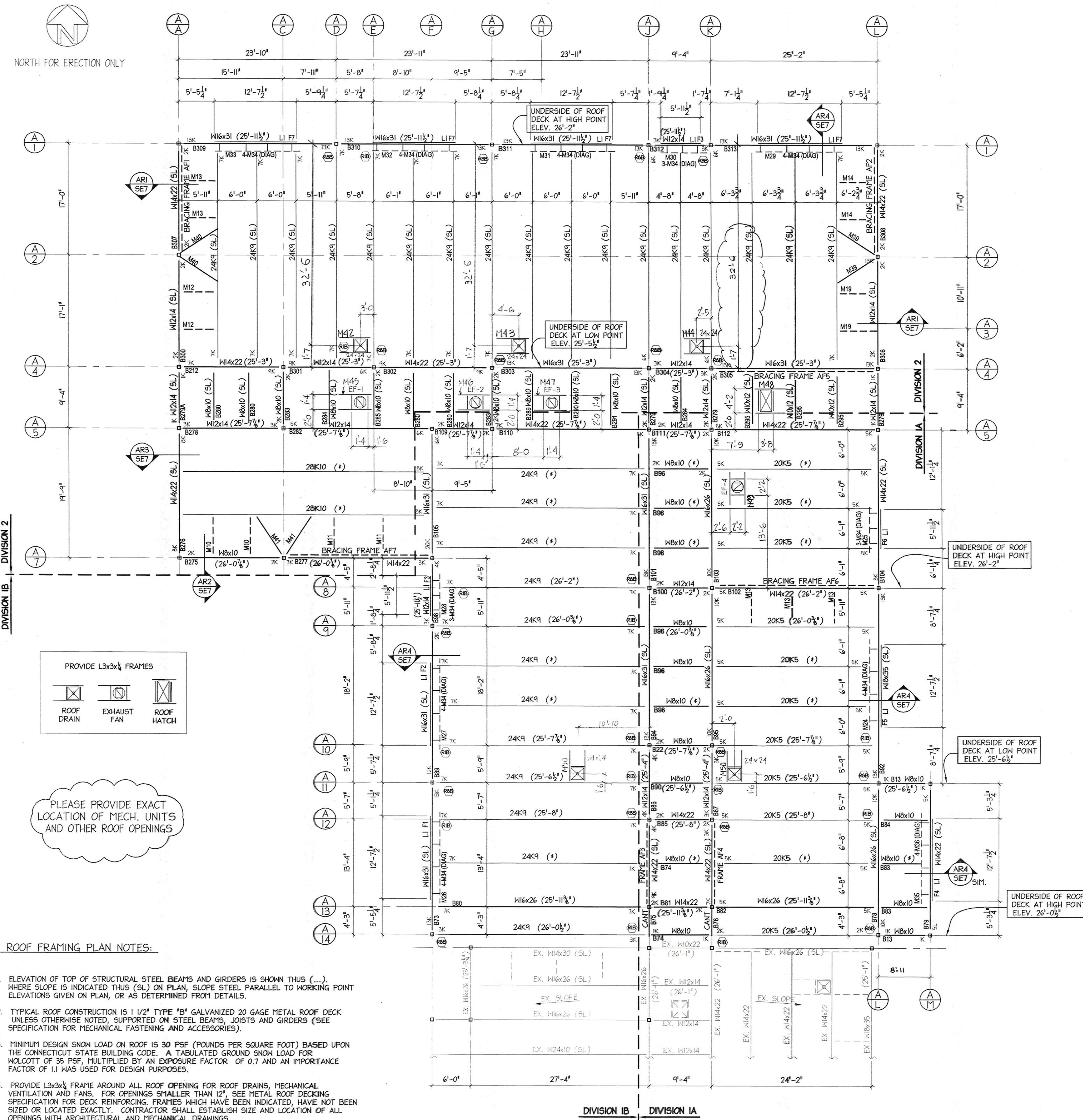
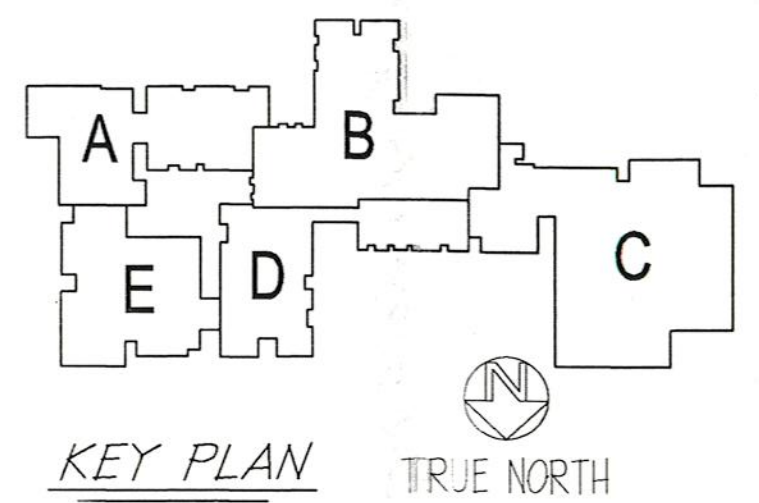
METAL STRUCTURES

BRETON
STEEL

500 Sagard St. Tel: (450) 653-9999
St-Bruno, (Quebec) Fax: (450) 653-1463
Internet: bretonsteel.com

Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	
Scale:	1/8" = 1'-0"
Date:	02-02-00

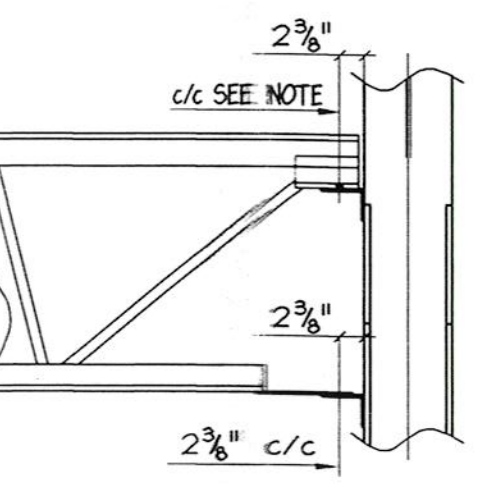
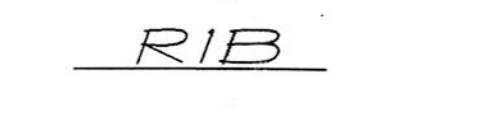
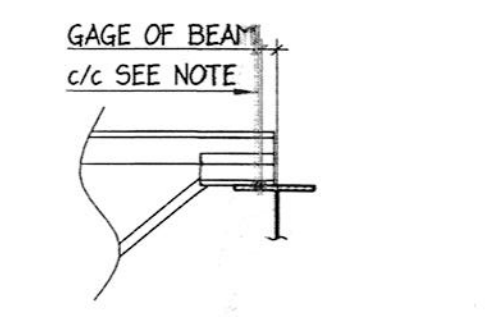
SEI 4



PLEASE PROVIDE EXACT LOCATION OF MECH. UNITS AND OTHER ROOF OPENINGS

- ROOF FRAMING PLAN NOTES:**
- ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS AND GIRDERS IS SHOWN THUS (...), WHERE SLOPE IS INDICATED THUS (SL) ON PLAN, SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN, OR AS DETERMINED FROM DETAILS.
 - TYPICAL ROOF CONSTRUCTION IS 1/2" TYPE 'B' GALVANIZED 20 GAUGE METAL ROOF DECK UNLESS OTHERWISE NOTED, SUPPORTED ON STEEL BEAMS, JOISTS AND GIRDERS (SEE SPECIFICATION FOR MECHANICAL FASTENING AND ACCESSORIES).
 - MINIMUM DESIGN SNOW LOAD ON ROOF IS 30 PSF (POUNDS PER SQUARE FOOT) BASED UPON THE CONNECTICUT STATE BUILDING CODE. A TABULATED GROUND SNOW LOAD FOR WOLCOTT OF 35 PSF, MULTIPLIED BY AN EXPOSURE FACTOR OF 0.7 AND AN IMPORTANCE FACTOR OF 1.1 WAS USED FOR DESIGN PURPOSES.
 - PROVIDE L3x3x1/4 FRAME AROUND ALL ROOF OPENING FOR ROOF DRAINS, MECHANICAL VENTILATION AND FANS. FOR OPENINGS SMALLER THAN 12", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING FRAMES WHICH HAVE BEEN INDICATED, HAVE NOT BEEN SIZED OR LOCATED EXACTLY. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
 - BEAM AND GIRDER REACTIONS (FOR EXAMPLE, R_K) REPRESENTS MAXIMUM END REACTIONS IN KIPS (1000 LBS.). CONNECTIONS SHALL DEVELOP A MINIMUM STRENGTH OF THE VALUE SHOWN, PROVIDING AT LEAST A MINIMUM NUMBER OF BOLTS AS SHOWN IN TYPICAL DETAIL.
 - THE STRUCTURAL CONDITIONS, WHERE SECTIONS OR DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL ALSO APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
 - FOR BRACING FRAME ELEVATIONS, SEE DRAWING SE4.
 - FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWINGS SE10 & SE9.
 - TOP OF STRUCTURAL STEEL NOTED THUS (*) ON PLAN WITH AN ASTERISK SHALL BE IN THE PLANE OF THE SLOPING UNDERSIDE OF DECK.

ROOF FRAMING PLAN - AREA A
SCALE: 1/8" = 1'-0"



FOR 4" @ 4" FLANGE 2 1/2"
FOR 5" @ 5" FLANGE 2 3/4"
FOR 6" @ 13 1/2" FLANGE 4"
FOR 13 1/2" & OVER 6"

JOISTS 33'-0" & OVER = 5 1/2" c/c
JOISTS LESS THAN 33'-0" = 4" c/c

NOTE: WHEN ONE JOIST BEARS AT THE JUNCTION OF TWO DIFFERENT BEAMS, USE THE SMALLER GAUGE.

No.	Date	Revision	Init
4	06-06-00	REV. BEAMS FROM SE10 TO SE14	JLH
3	04-13-00	Dim. Rev. Sec. 10 & 11	LA
2	03-16-00	REV. AS PER APPROVAL	MH
1	02-28-00	PC'S MARK ADDED	MH

PROJECT:
WHISCONIER MIDDLE SCHOOL
BROOKFIELD CONNECTICUT

ROOF FRAMING PLAN - AREA A

FOR CONSTRUCTION

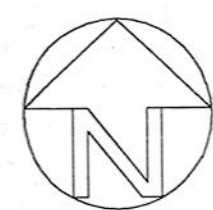
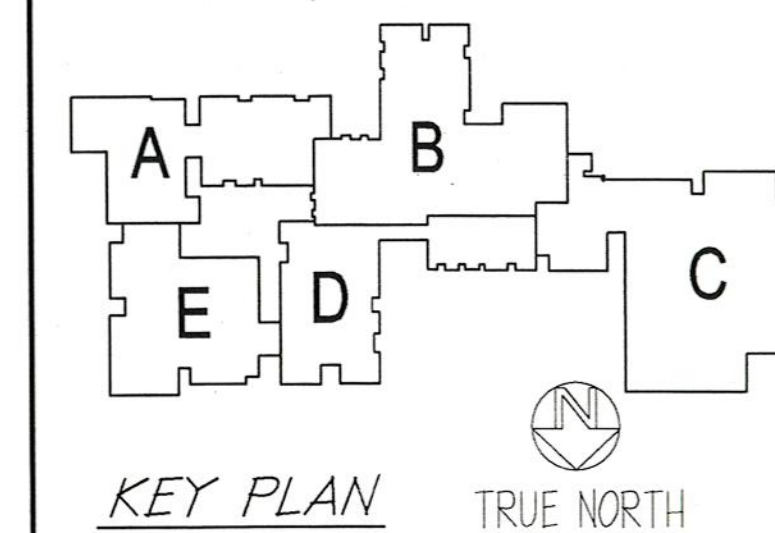
METAL STRUCTURES

BRETON STEEL

500 Sagard St. Tel: (450) 658-9999
 St-Basile, (Quebec) Fax: (450) 658-1963
 Internet: bretonsteel.com

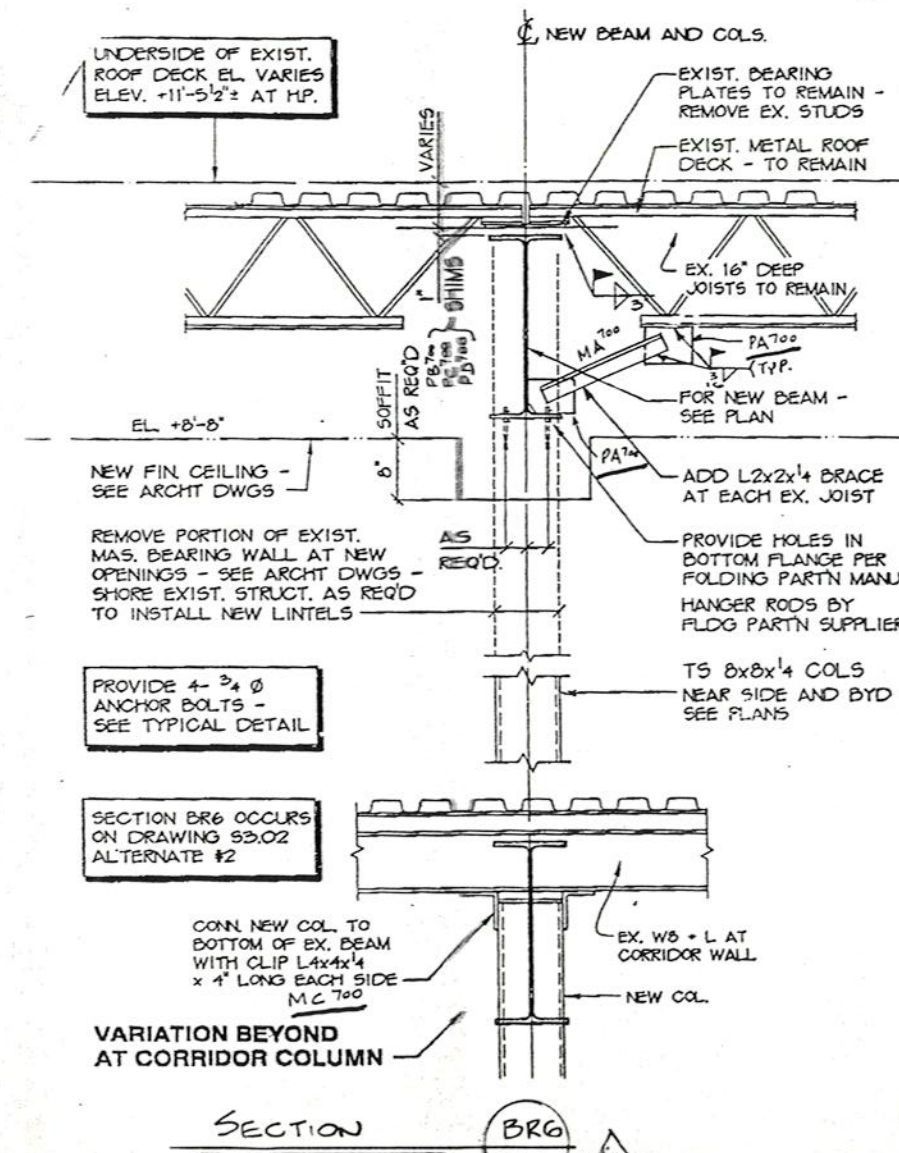
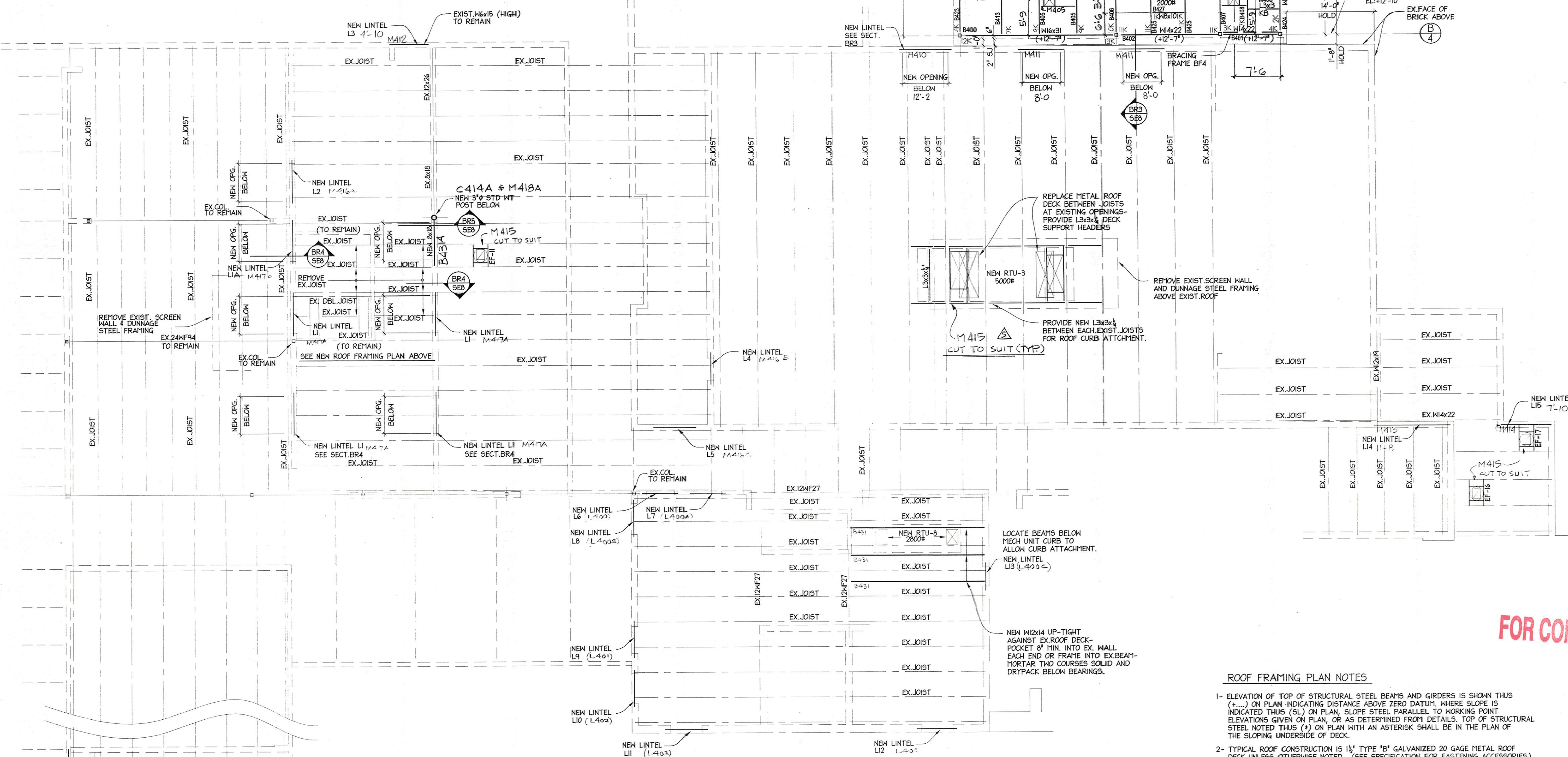
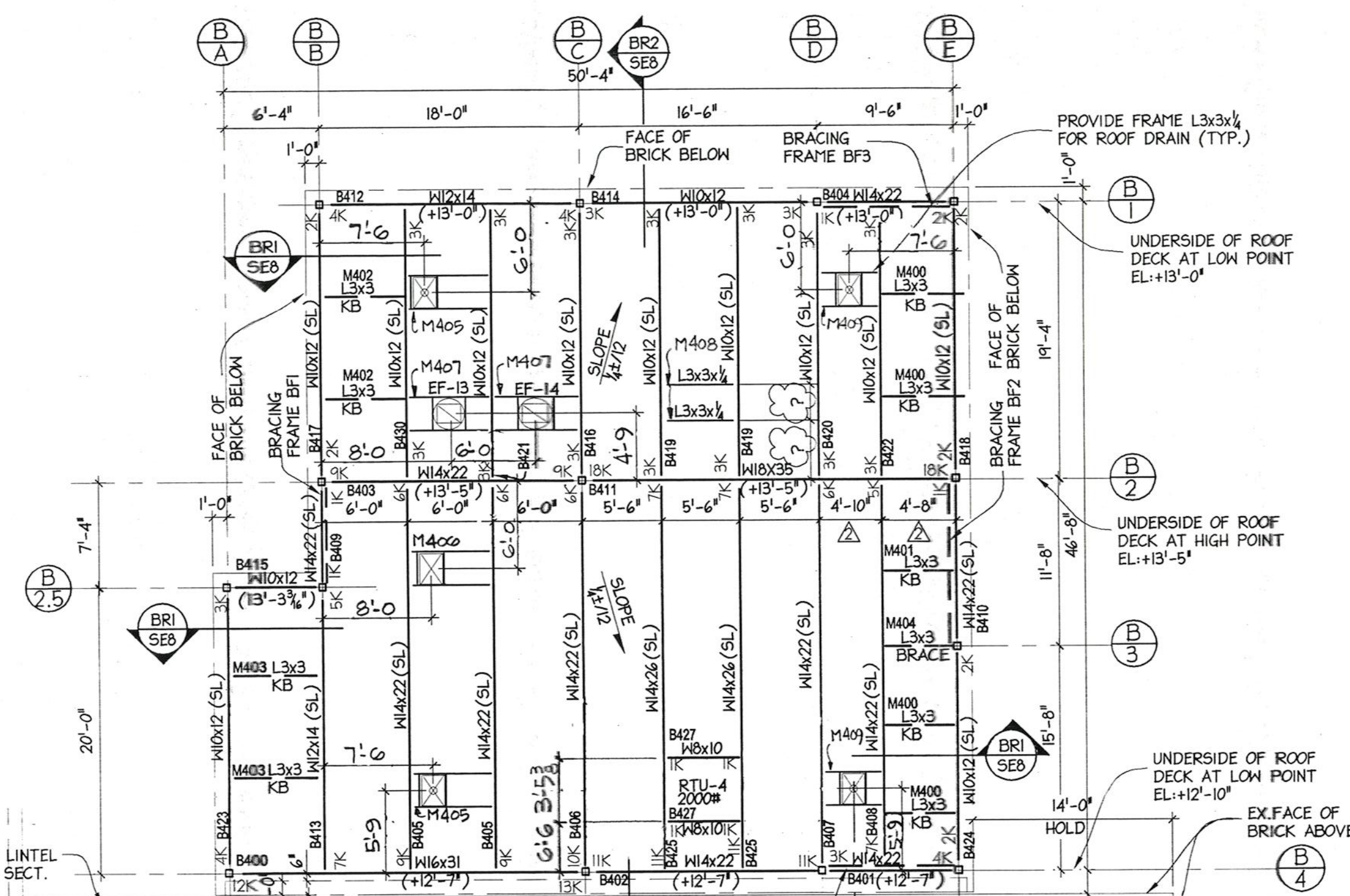
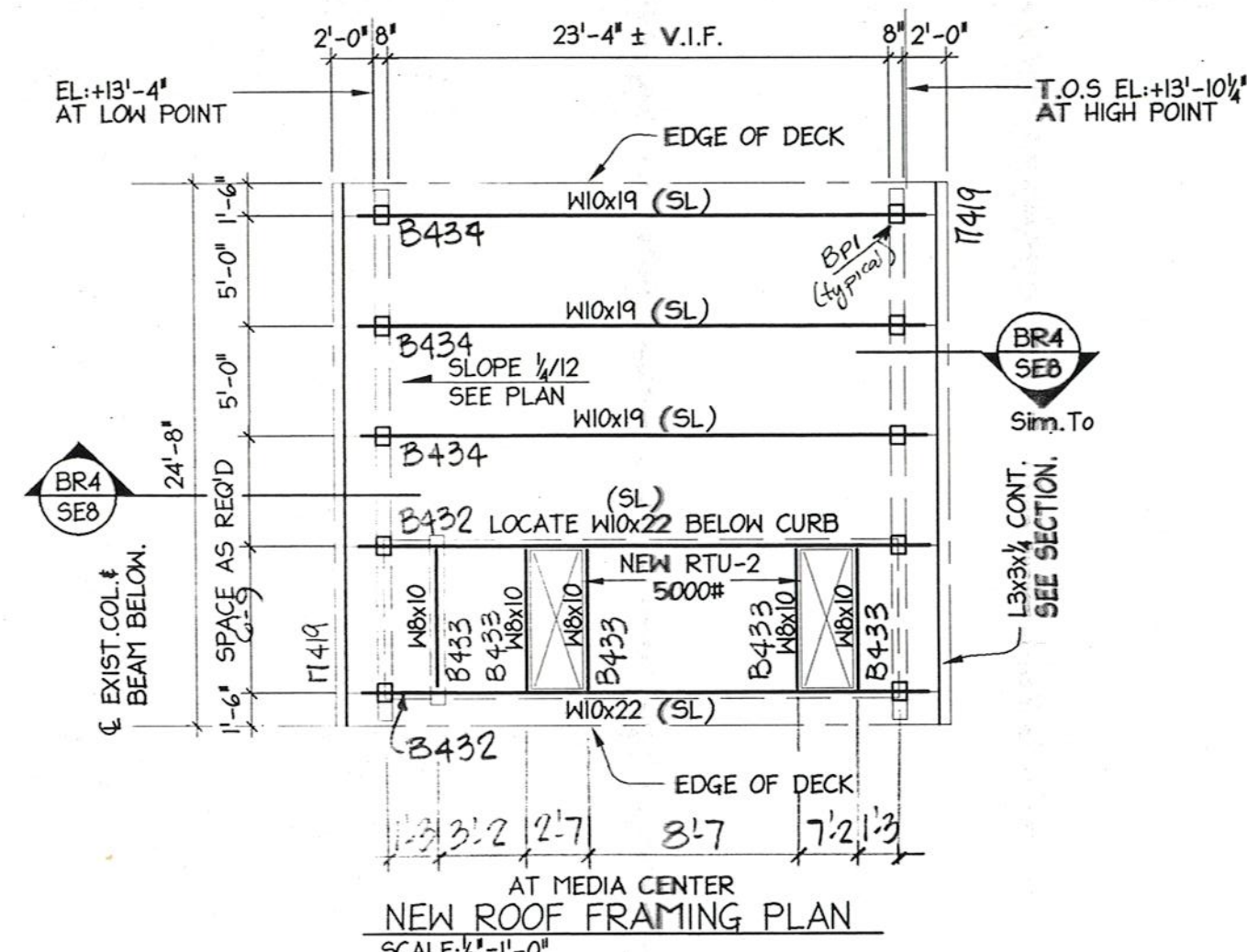
Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	
Scale:	1/8" = 1'-0"
Date:	02-02-00

SE2 4



NORTH FOR ERECTION ONLY

PLEASE PROVIDE LOCATION & DIMENSIONS FOR ALL OPENINGS IN EXIST. & NEW PART.



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

ROOF FRAMING PLAN NOTES

- ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS AND GIRDERS IS SHOWN THUS (+...) ON PLAN INDICATING DISTANCE ABOVE ZERO DATUM. WHERE SLOPE IS INDICATED THUS (SL) ON PLAN, SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN, OR AS DETERMINED FROM DETAILS. TOP OF STRUCTURAL STEEL NOTED THUS (*) ON PLAN WITH AN ASTERISK SHALL BE IN THE PLAN OF THE SLOPING UNDERSIDE OF DECK.
- TYPICAL ROOF CONSTRUCTION IS 1/2" TYPE 'B' GALVANIZED 20 GAGE METAL ROOF DECK (UNLESS OTHERWISE NOTED, (SEE SPECIFICATION FOR FASTENING ACCESSORIES) SUPPORTED ON STEEL BEAMS, JOISTS AND GIRDERS.
- MINIMUM DESIGN SNOW LOAD ON ROOF IS 30 PSF (POUNDS PER SQUARE FOOT) BASED UPON THE CONNECTICUT BASIC BUILDING CODE. A TUBULATED GROUND SNOW LOAD FOR BROOKFIELD OF 36 PSF, MULTIPLIED BY AN EXPOSURE FACTOR OF 0.71 AND IMPORTANCE FACTOR OF 1.0, WAS USED FOR DESIGN PURPOSES; ALL AS REQUIRED BY THE CONNECTICUT BASIC BUILDING CODE.
- PROVIDE L3x3 1/2" FRAME AROUND ALL ROOF OPENINGS FOR ROOF DRAINS, MECHANICAL VENTILATION AND FANS. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
- FOR OPENINGS SMALLER THAN 12", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING. FRAME WHICH HAVE BEEN INDICATED, HAVE NOT BEEN SIZED NOR LOCATED EXACTLY.
- BEAMS AND GIRDERS REACTIONS (FOR EXAMPLE BK) REPRESENTS MAXIMUM END REACTIONS IN KIPS (1000 LBS.). CONNECTIONS SHALL DEVELOP A MINIMUM STRENGTH OF THE VALUE SHOWN PROVIDE AT LEAST A MINIMUM NUMBER OF BOLTS AS SHOWN IN TYPICAL DETAILS.
- THE STRUCTURAL CONDITIONS, WHERE SECTIONS AND DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL ALSO APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
- FOR BRACING FRAME ELEVATIONS, SEE DRAWING S4.
- FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWINGS S4 & S9.

FOR CONSTRUCTION

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

ROOF
FRAMING PLAN

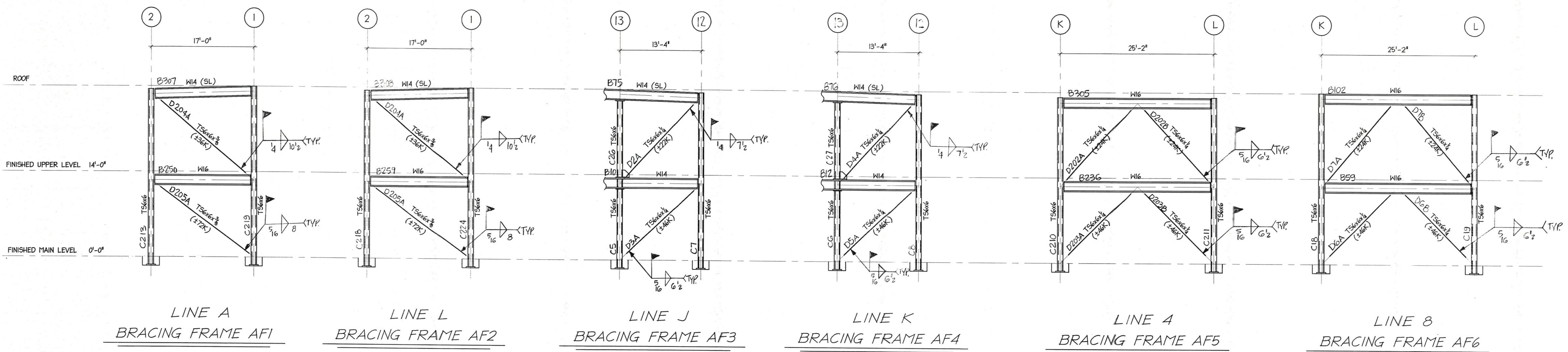
METAL STRUCTURES

BRETON
STEEL

500 Sagard St. Tel: (460) 653-9999
St-Bruno, (Quebec) Fax: (460) 653-1963
Internet: bretonsteel.com

Contract #:	00-500
Drawn by:	R.DORE
Checked by:	
Scale:	1/8" = 1'-0"
Date:	02-07-00

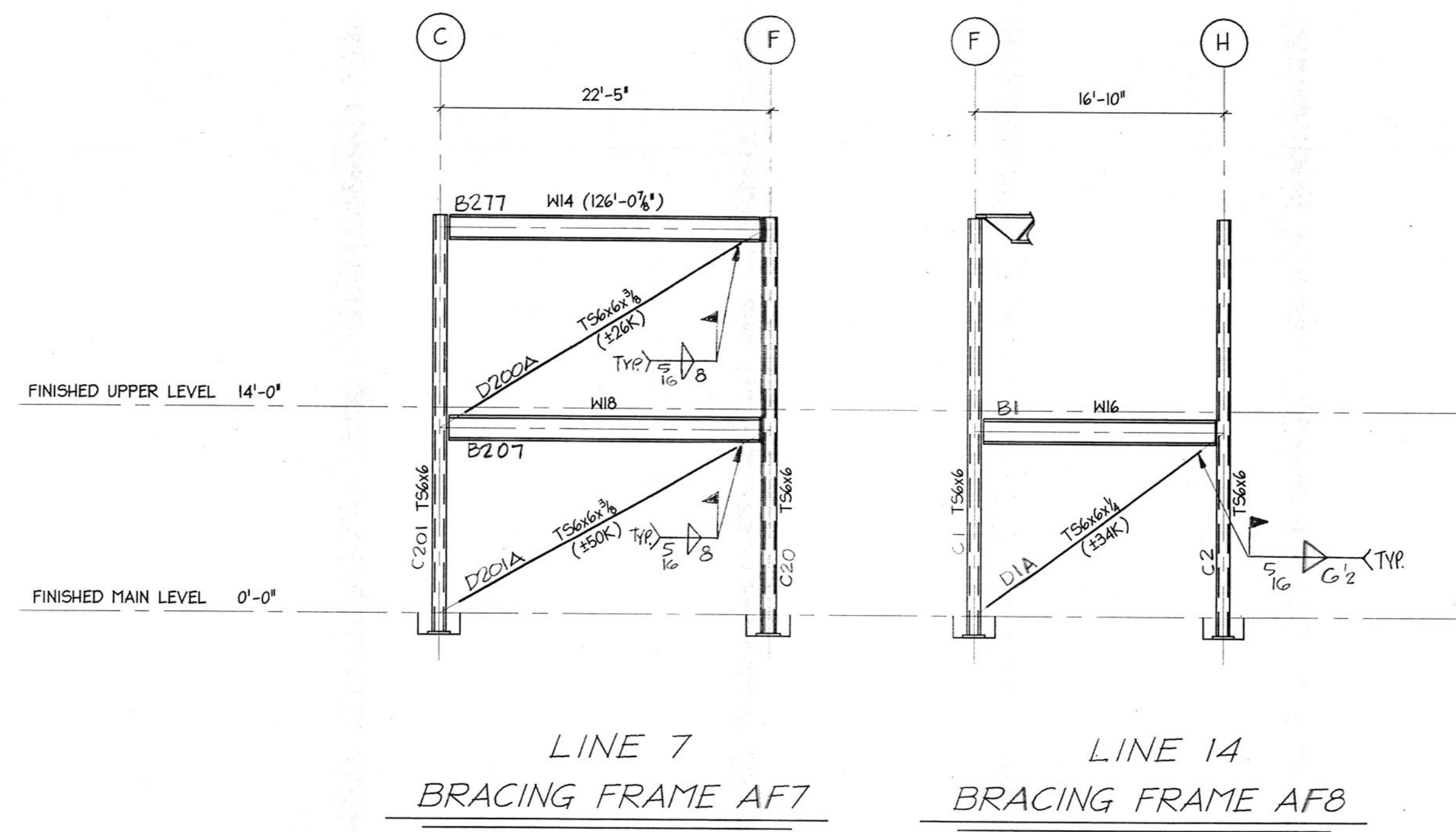
SE3 8



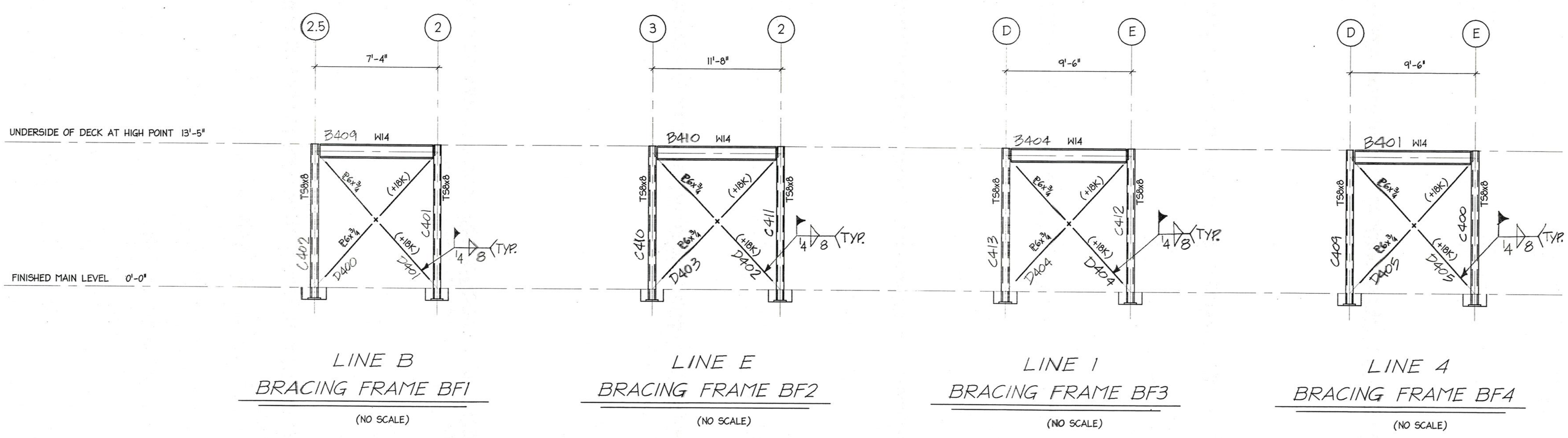
LINE A BRACING FRAME AF1 LINE L BRACING FRAME AF2 LINE J BRACING FRAME AF3 LINE K BRACING FRAME AF4 LINE 4 BRACING FRAME AF5 LINE 8 BRACING FRAME AF6

WIND AND SEISMIC NOTES:

- ALL FORCES OR LOADS ARE GIVEN IN KIIPS (1000 LBS.). THE SYMBOL "+" INDICATES TENSION. THE SYMBOL "-" INDICATES COMPRESSION.
- THE BASIS FOR DETERMINING SEISMIC FORCES IS AS FOLLOWS:
SEISMIC HAZARD EXPOSURE GROUP II
SEISMIC PERFORMANCE CATEGORY C
V = CS M EQUIVALENT LATERAL FORCE PROCEDURE
TOTAL DEAD LOAD OF STRUCTURE BEING CONSIDERED
CS SEISMIC DESIGN COEFFICIENT
AV = 0.11 SEISMIC COEFFICIENT
A₀ = 0.15 SEISMIC COEFFICIENT
S = 1.0 SITE COEFFICIENT
R = 5 STRUCTURAL SYSTEM RESPONSE MODIFICATION FACTORS
BASED UPON A SEISMIC-RESISTING SYSTEM CONSISTING OF CONCENTRICALLY BRACED FRAMES
Cd = 4 $\frac{1}{2}$
- THE BASIS FOR WIND DESIGN IS A WIND SPEED OF 80 MPH AND WIND IMPORTANCE FACTOR OF 1.14 AS TABULATED IN THE STATE BUILDING CODE FOR THE TOWN OF BROOKFIELD. THE WIND EXPOSURE CLASSIFICATION IS EXPOSURE C AND THE BUILDING CLASSIFICATION IS CATEGORY II.
- THE DESIGN OF STRUCTURAL STEEL SEISMIC BRACING CONNECTIONS SHALL BE IN ACCORDANCE WITH THE 1996 BOCA NATIONAL BUILDING CODE SECTION 2203.2. THE DIAGONAL BRACING FORCES SHOWN THIS (T/C) ON THE FRAME ELEVATIONS ARE BASED ON ALLOWABLE LOAD COMBINATIONS. THE CONNECTIONS OF DIAGONAL BRACING TO COLUMNS OR BEAMS SHALL BE DESIGNED USING ALLOWABLE STRENGTH DESIGN WITH NO STRESS INCREASE. BOLT VALUES OF CLASS A (SLIP CRITICAL) CONNECTION TYPE IN STANDARD HOLES SHALL BE USED (4 BOLT MINIMUM). GRIT PAINT AT CONNECTION AS REQUIRED BY CODE.
- FOR TYPICAL DETAILS AND GENERAL NOTES SEE DRAWINGS SE10 & SE9.



LINE 7 BRACING FRAME AF7 LINE 14 BRACING FRAME AF8



LINE B BRACING FRAME BF1 (NO SCALE) LINE E BRACING FRAME BF2 (NO SCALE) LINE 1 BRACING FRAME BF3 (NO SCALE) LINE 4 BRACING FRAME BF4 (NO SCALE)

No.	Date	Revision	init
3	03-15-00	AS PER APPROVAL	MH
2	2-24-2000	MARKS ADDED	MH
1	2-11-2000	MARKS ADDED	SB

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

BRACING
ELEVATIONS

FOR CONSTRUCTION

METAL STRUCTURES
BRETON
STEEL

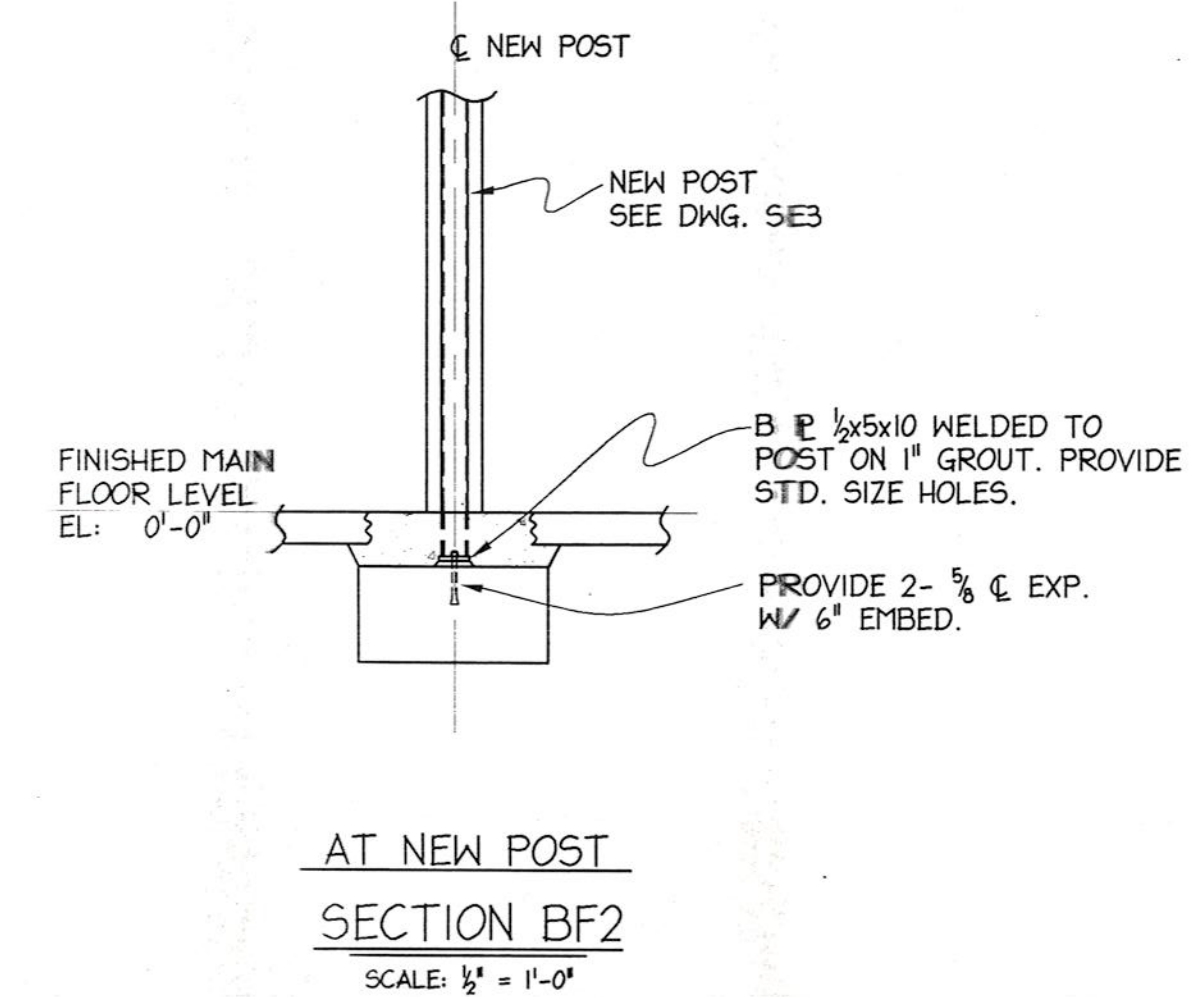
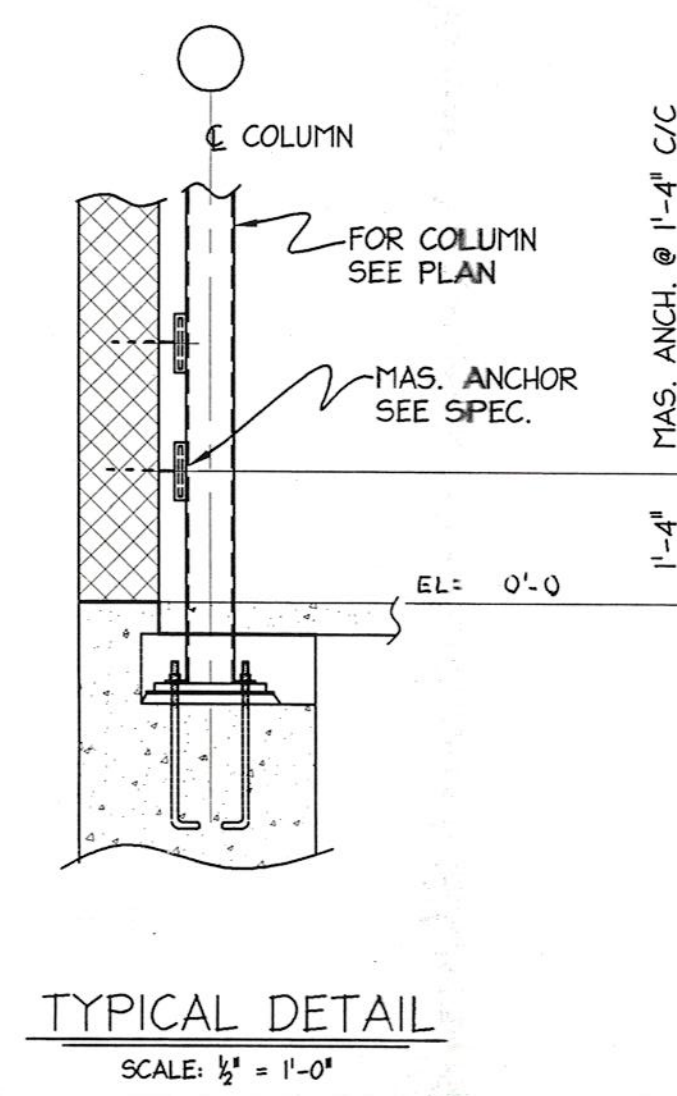
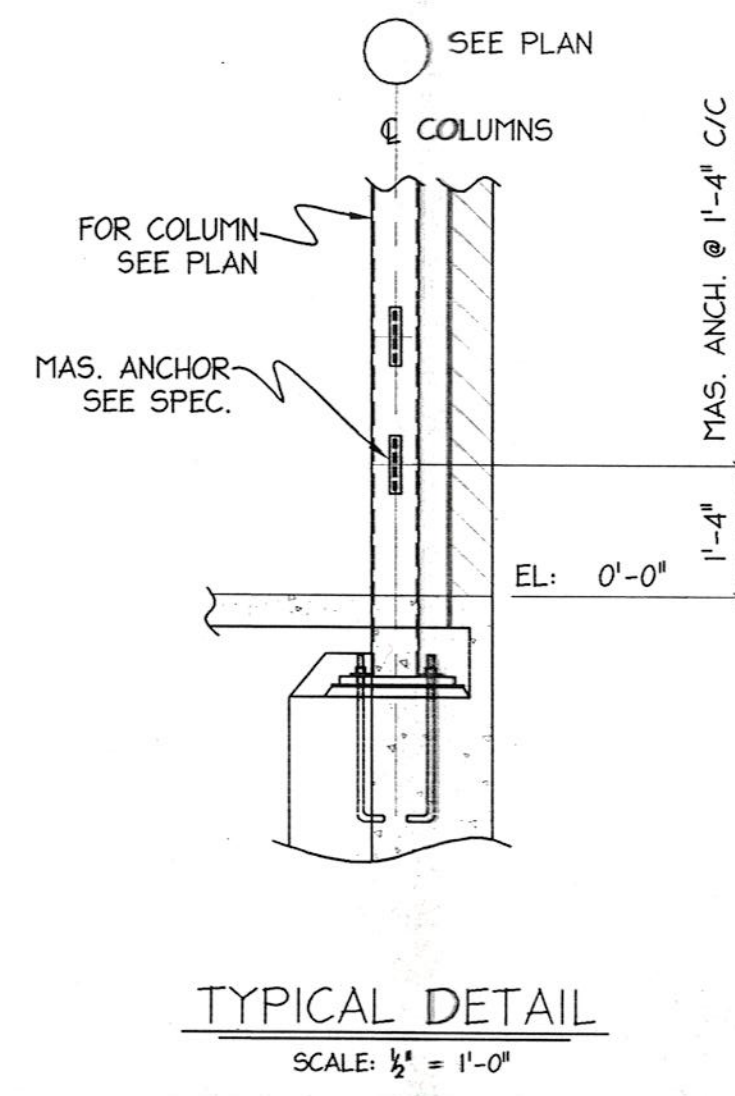
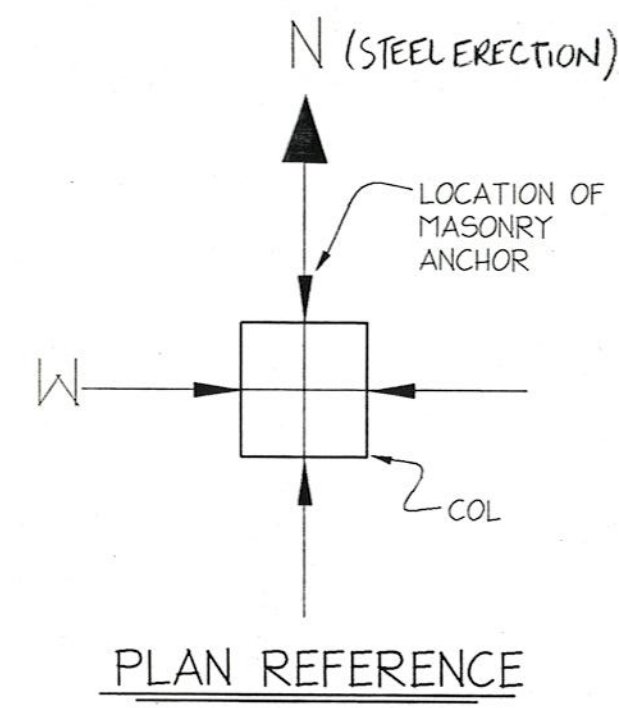
500 Sargent St. Tel: (450) 653-9999
St-Bruno, (Quebec) Fax: (450) 653-1043
Internet: bretonsteel.com

Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	<i>[Signature]</i>
Scale:	1/8" = 1'-0"
Date:	02-02-00

SE4 3

MASONRY ANCHORS AT COLUMNS

GRID	EL. 0'-0" TO EL. 14'-0"	EL. 14'-0" TO EL. 26'-2"
(A) 1	---	---
(A) 2	---	SAME
(A) 4	---	SAME
(A) 5	---	SAME
(A) 7	---	SAME
(A) 4	---	SAME
(A) 5	---	SAME
(A) 7	---	SAME
(A) 1	---	---
(A) 2	---	---
(A) 4	---	SAME
(A) 5	---	SAME
(A) 7	---	---
(A) 9	---	---
(A) 11	---	---
(A) 14	---	---
(A) 1	---	---
(A) 2	---	---
(A) 4	---	SAME
(A) 5	---	SAME
(A) 9	---	---
(A) 11	---	---
(A) 14	---	---
(A) 1	---	SAME
(A) 2	---	---
(A) 4	---	SAME
(A) 5	---	SAME
(A) 8	---	SAME
(A) 10	---	SAME
(A) 12	---	SAME
(A) 13	---	SAME
(A) 1	---	SAME
(A) 2	---	---
(A) 4	---	SAME
(A) 5	---	SAME
(A) 8	---	SAME
(A) 10	---	SAME
(A) 12	---	SAME
(A) 13	---	SAME
(A) 1	---	---
(A) 2	---	SAME
(A) 4	---	---
(A) 5	---	---
(A) 8	---	---
(A) 11	---	---
(A) 14	---	---
(A) 11	---	---
(A) 14	---	---
(A) 3	---	---
(A) 6	---	---



GRID	EL. 0'-0" TO EL. 13'-5"
(B) 2.5	---
(B) 4	---
(B) 1	---
(B) 2	---
(B) 2.5	---
(B) 1	---
(B) 2	---
(B) 4	---
(B) 1	---
(B) 4	---
(B) 1	---
(B) 2	---
(B) 3	---
(B) 4	---

No.	Date	AS PER APPROVAL	Revision	Init

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

DETAILS

FOR CONSTRUCTION

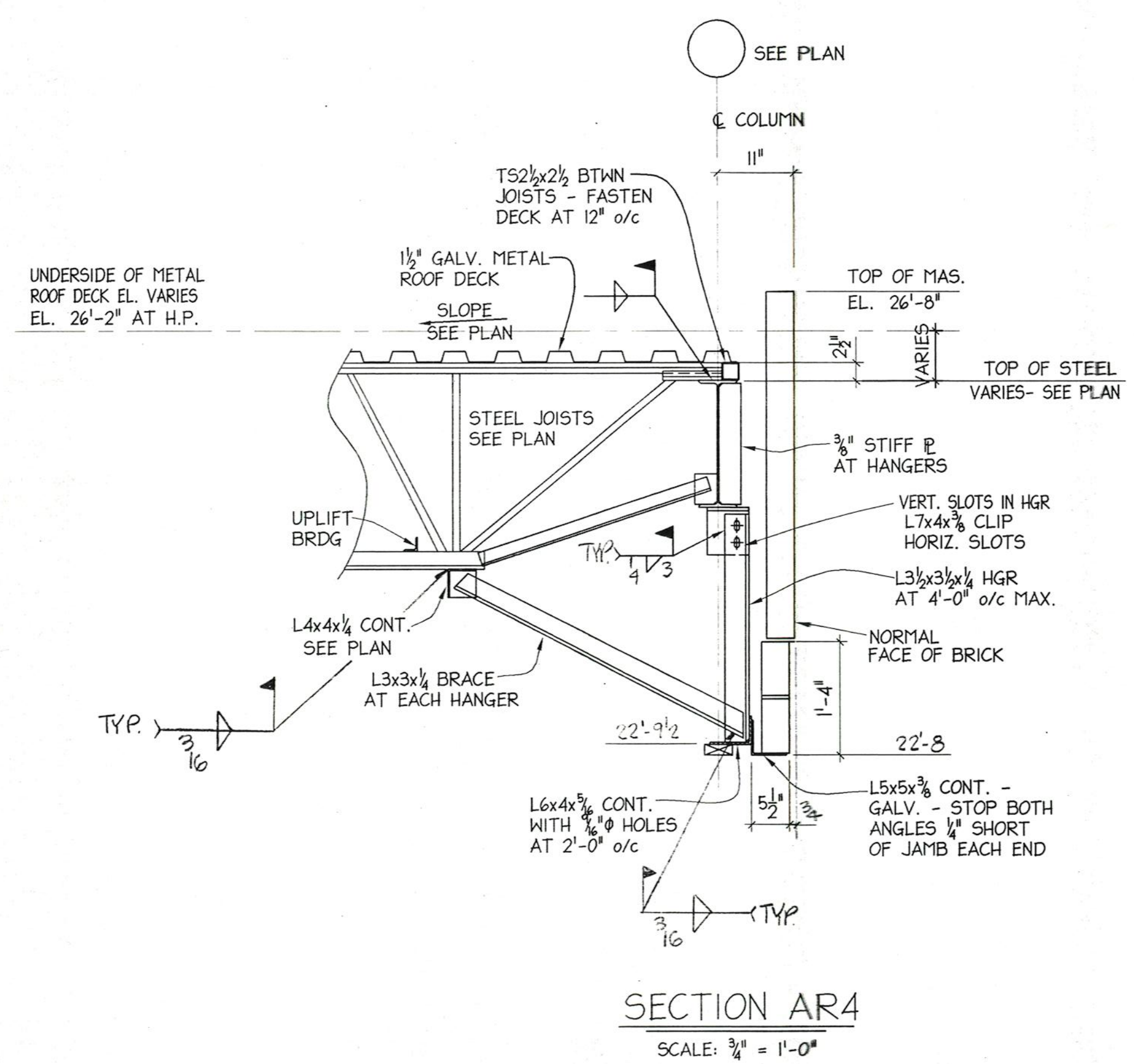
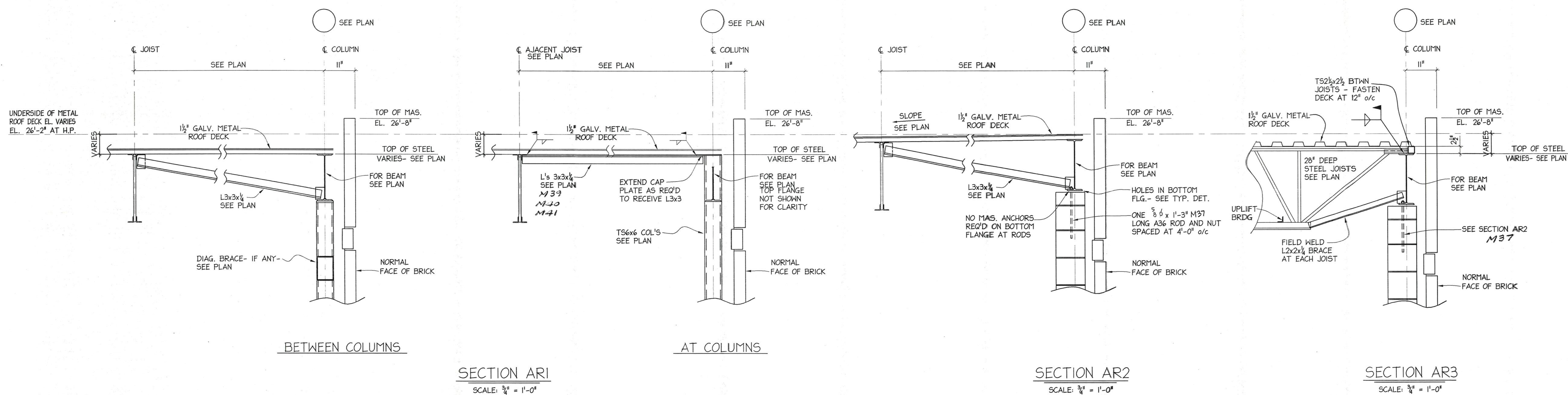
METAL STRUCTURES

BRETON
STEEL

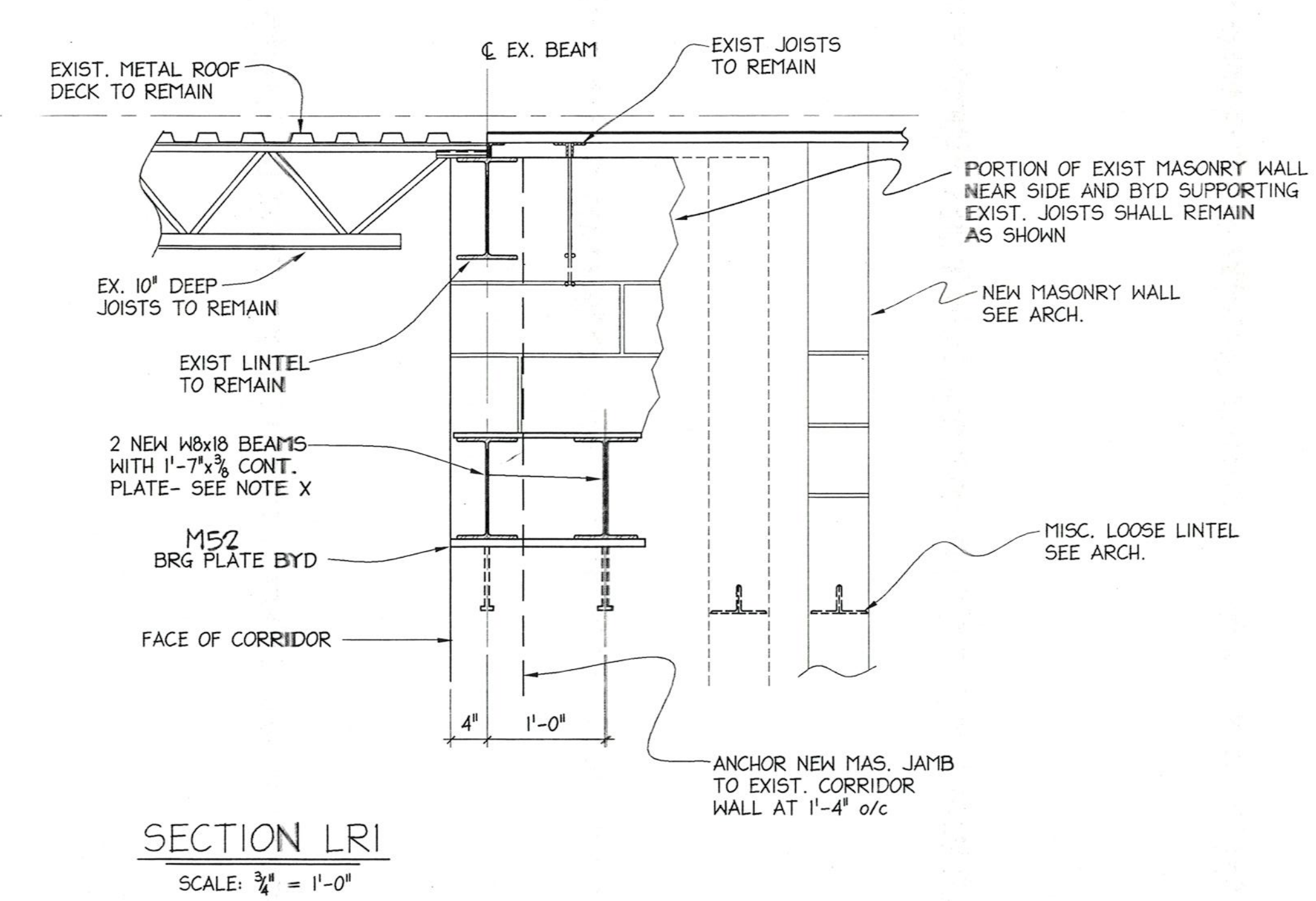
500 Sagard St. Tel: (450) 653-9999
St-Bruno, (Quebec) Fax: (450) 653-1963
Internet: bretonsteel.com

Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	
Scale:	1/2" = 1'-0"
Date:	02-07-00

SE5 1



NOTE X
STOP 3/8" PLATE 1/4" SHORT OF NEW JAMBS
PROVIDE 1'-8" x 6" x 3/8" BRG PLATE WITH 2- 3/8" HEADED STUDS AT 12" o/c
GROUT 2 COURSES SOLID BELOW BRG PLATE (BY OTHERS)
SHORE EXIST. STRUCTURE AS NECESSARY TO INSTALL NEW LINTEL (BY OTHERS)



FOR CONSTRUCTION

No.	Date	Rev	As Per Approval	Init
1	03-15-00	REV AS PER APPROVAL		M.H.

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

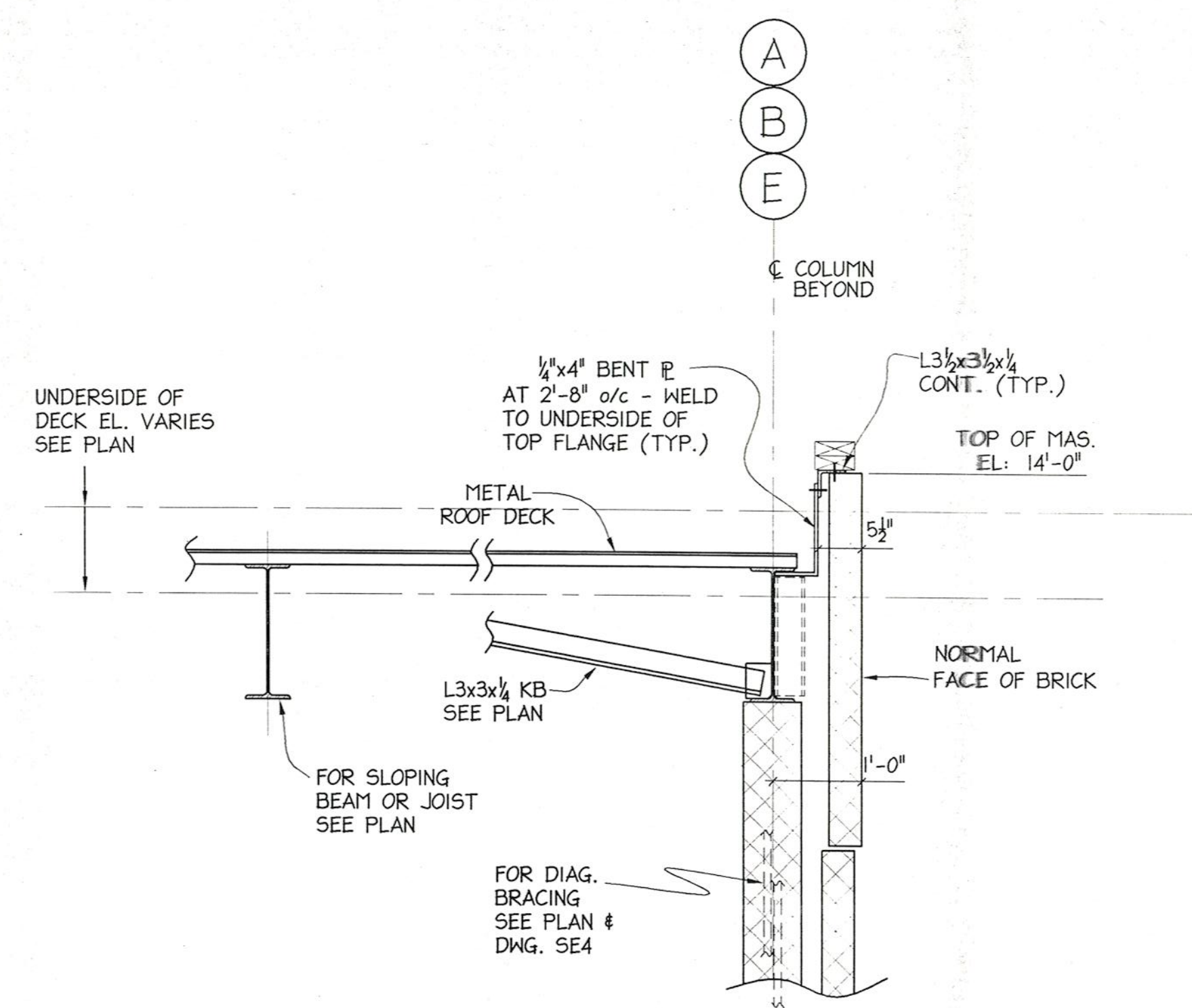
ROOF
DETAILS

METAL STRUCTURES
BRETON
STEEL

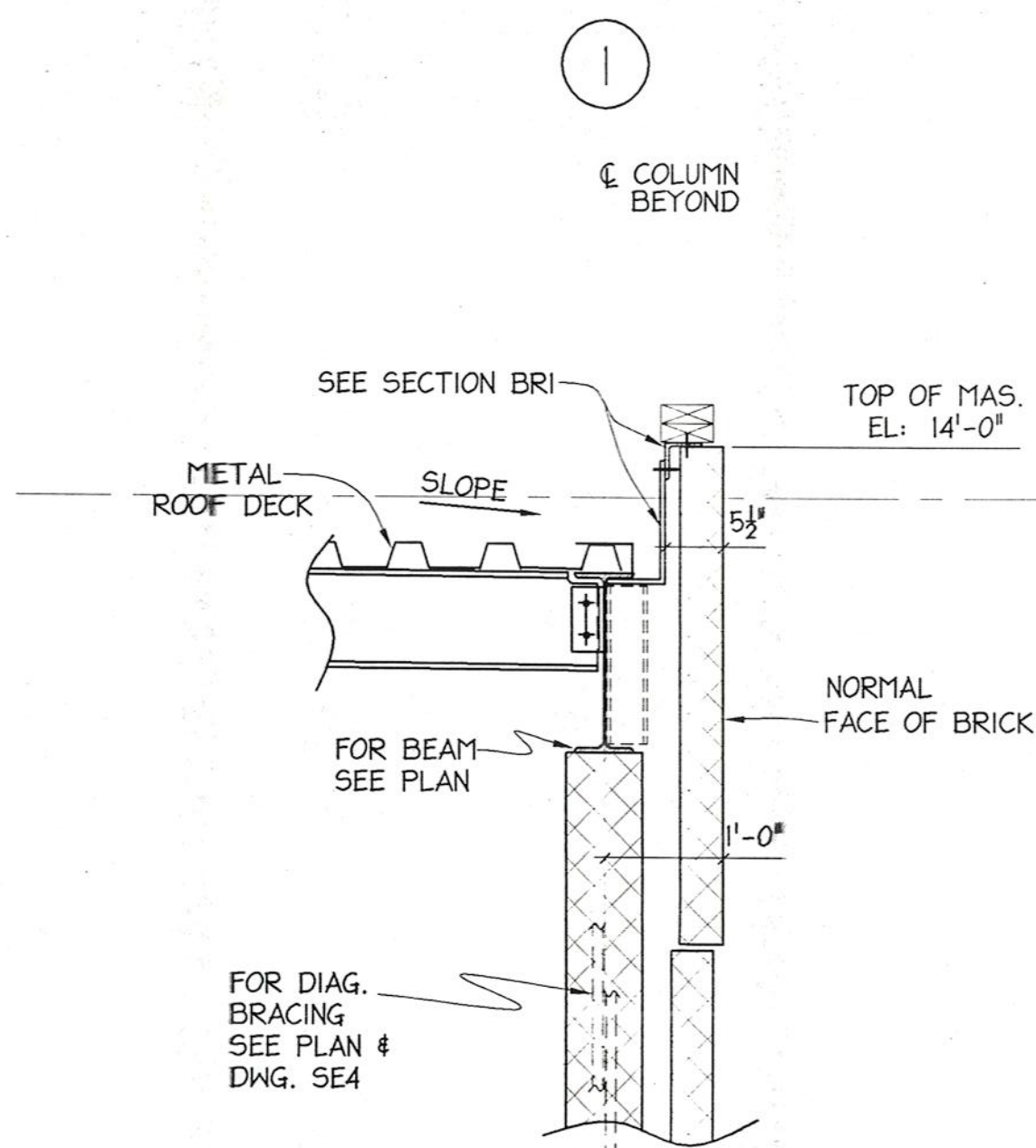
800 Sagard St. Tel: (450) 653-9999
St-Bruno, (Quebec) Fax: (450) 653-1963
Internet: bretonsteel.com

Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	
Scale:	3/4" = 1'-0"
Date:	02-02-00

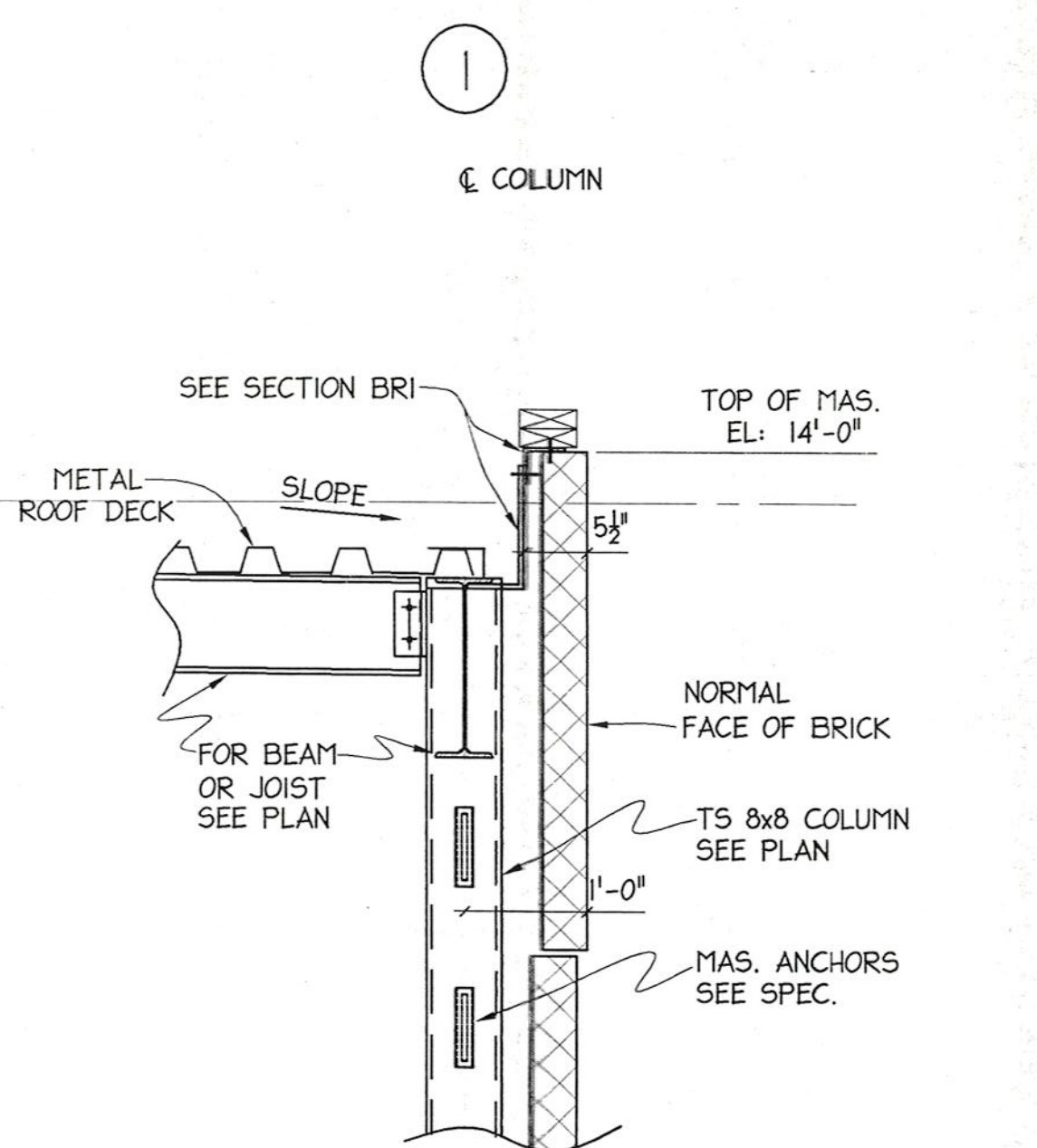
SE7 1



SECTION BR1
SCALE: 3/4" = 1'-0"

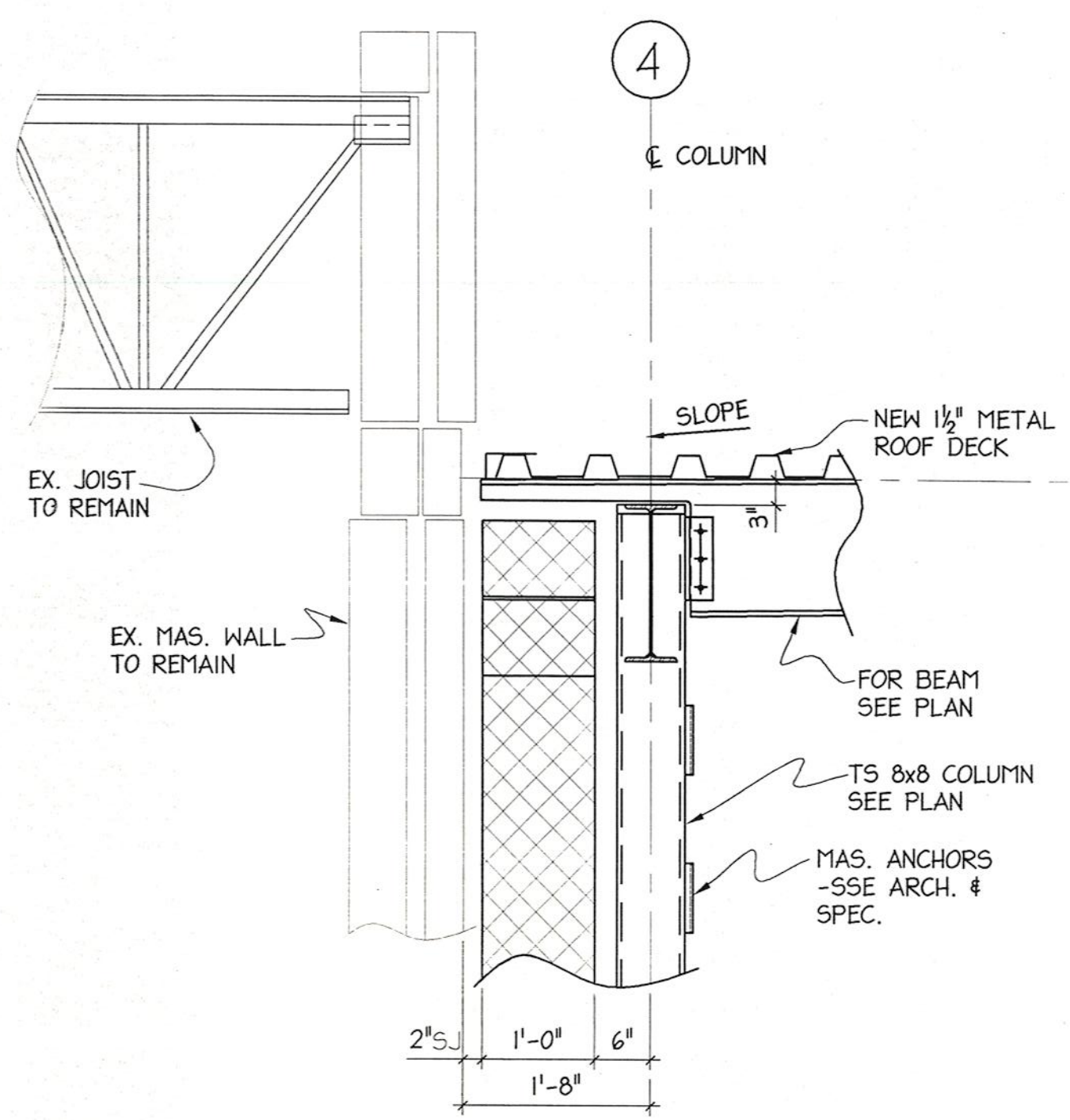


BETWEEN COLUMNS

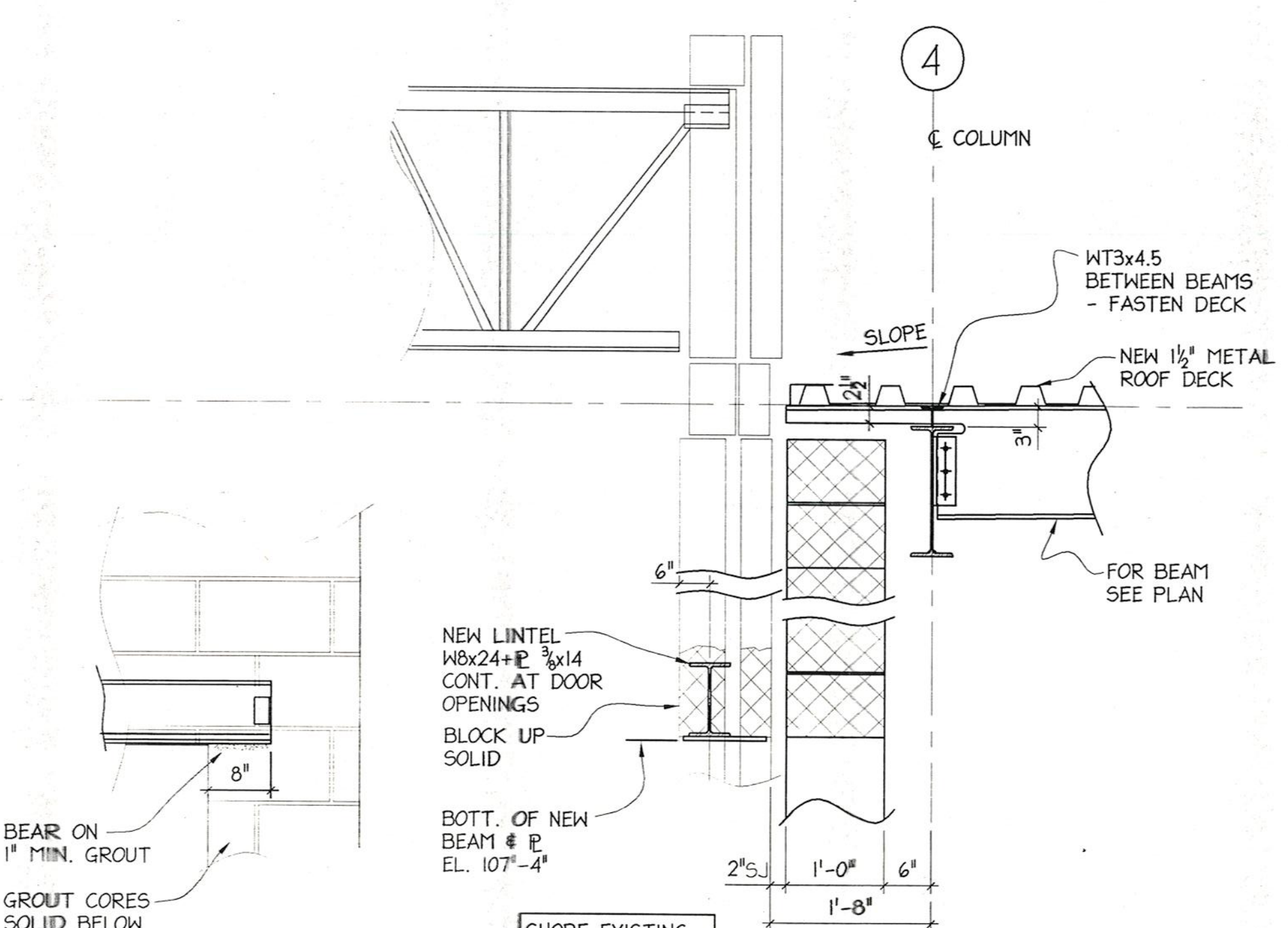


AT COLUMN

SECTION BR2
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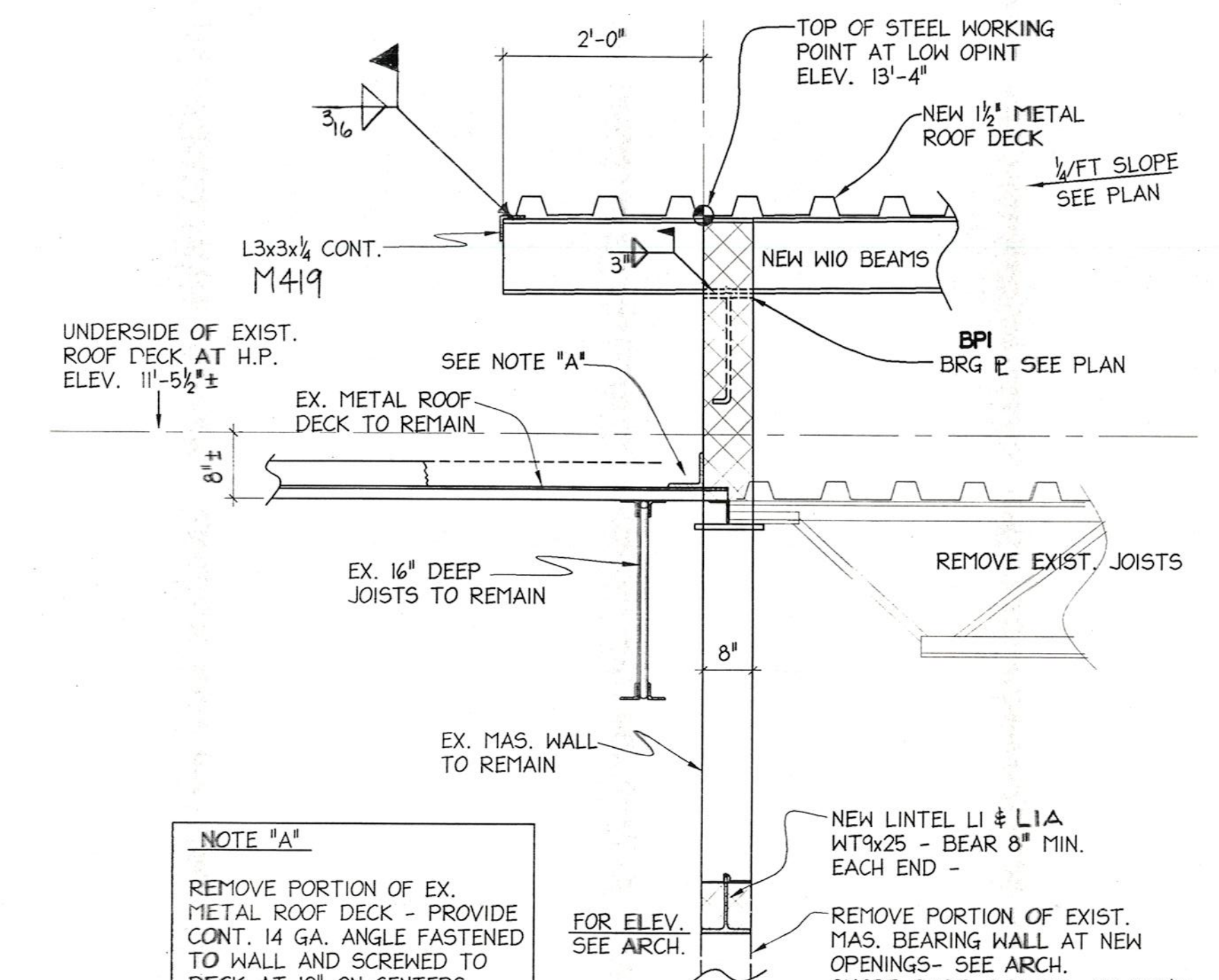


AT COLUMN



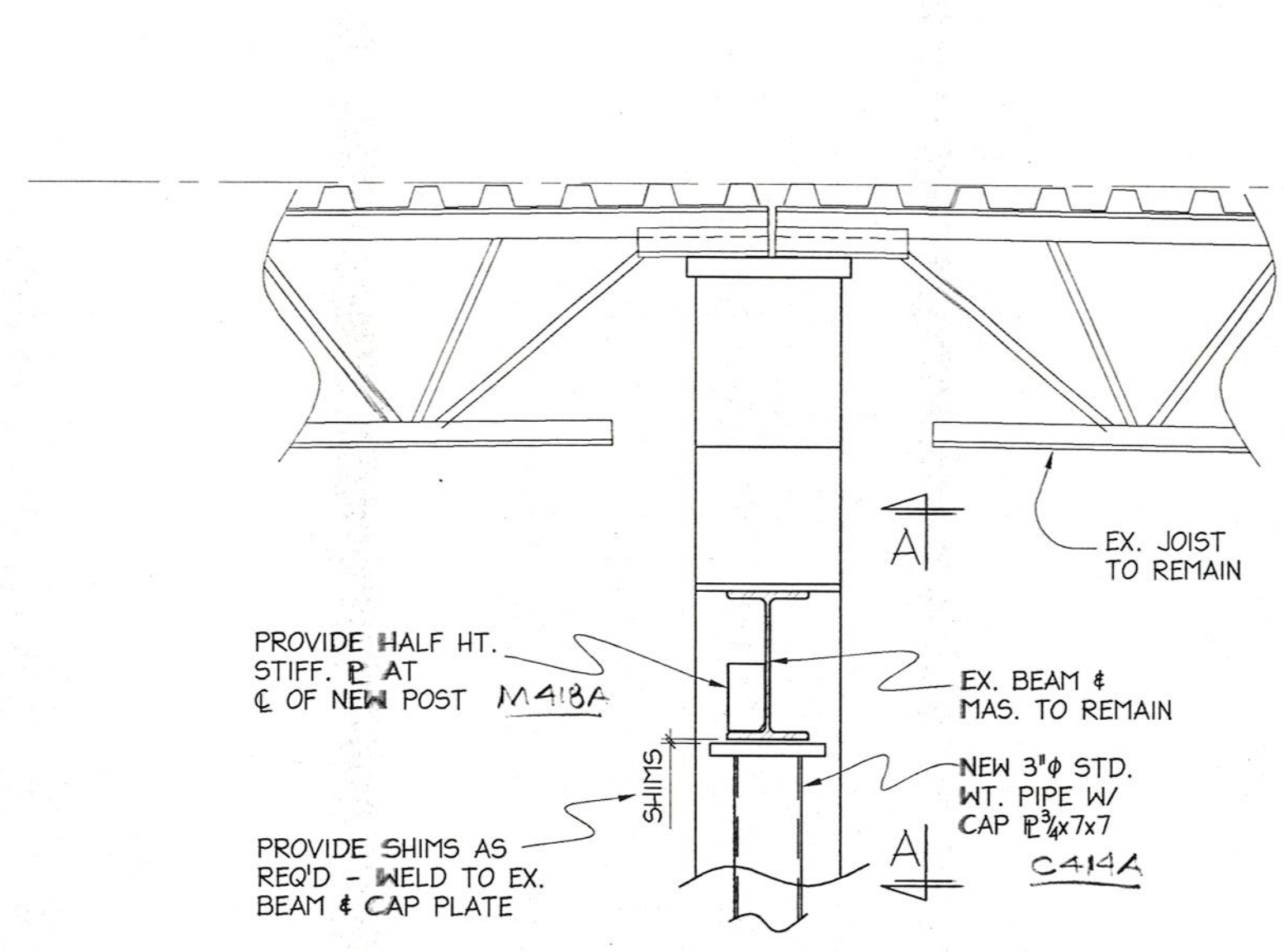
AT DOOR OPENINGS

SECTION BR3
SCALE: 3/4" = 1'-0"

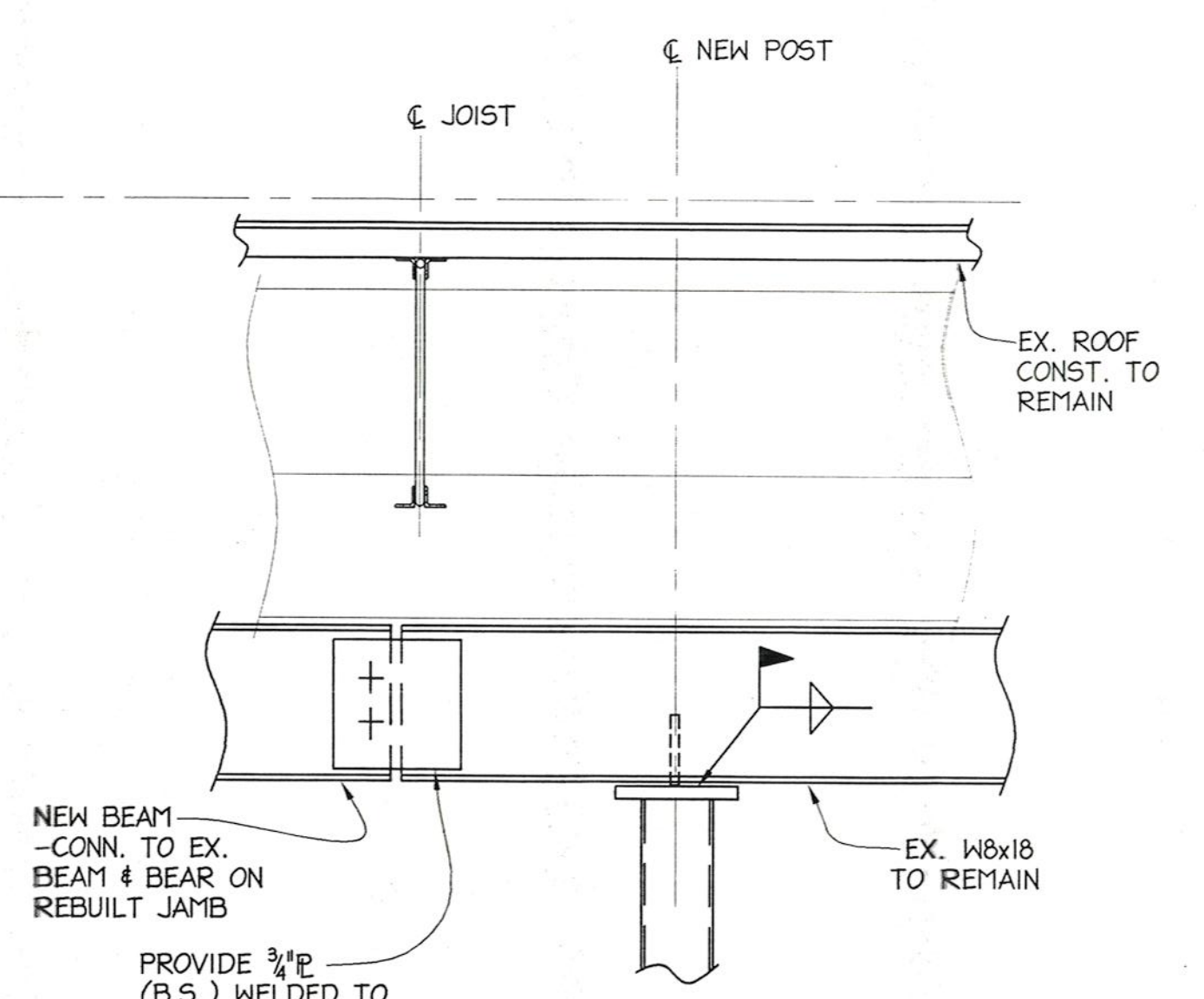


NOTE "A"
REMOVE PORTION OF EX. METAL ROOF DECK - PROVIDE CONT. 14 GA. ANGLE FASTENED TO WALL AND SCREWED TO DECK AT 12" ON CENTERS

SECTION BR4
SCALE: 3/4" = 1'-0"



SECTION BR5
SCALE: 3/4" = 1'-0"



VIEW A-A

9-28-00			
2	8-21-00	MARK ADDED	SB
1	03-15-00	REV AS PER APPROVAL	MH
No	Date	Revision	Init

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

ROOF
DETAILS

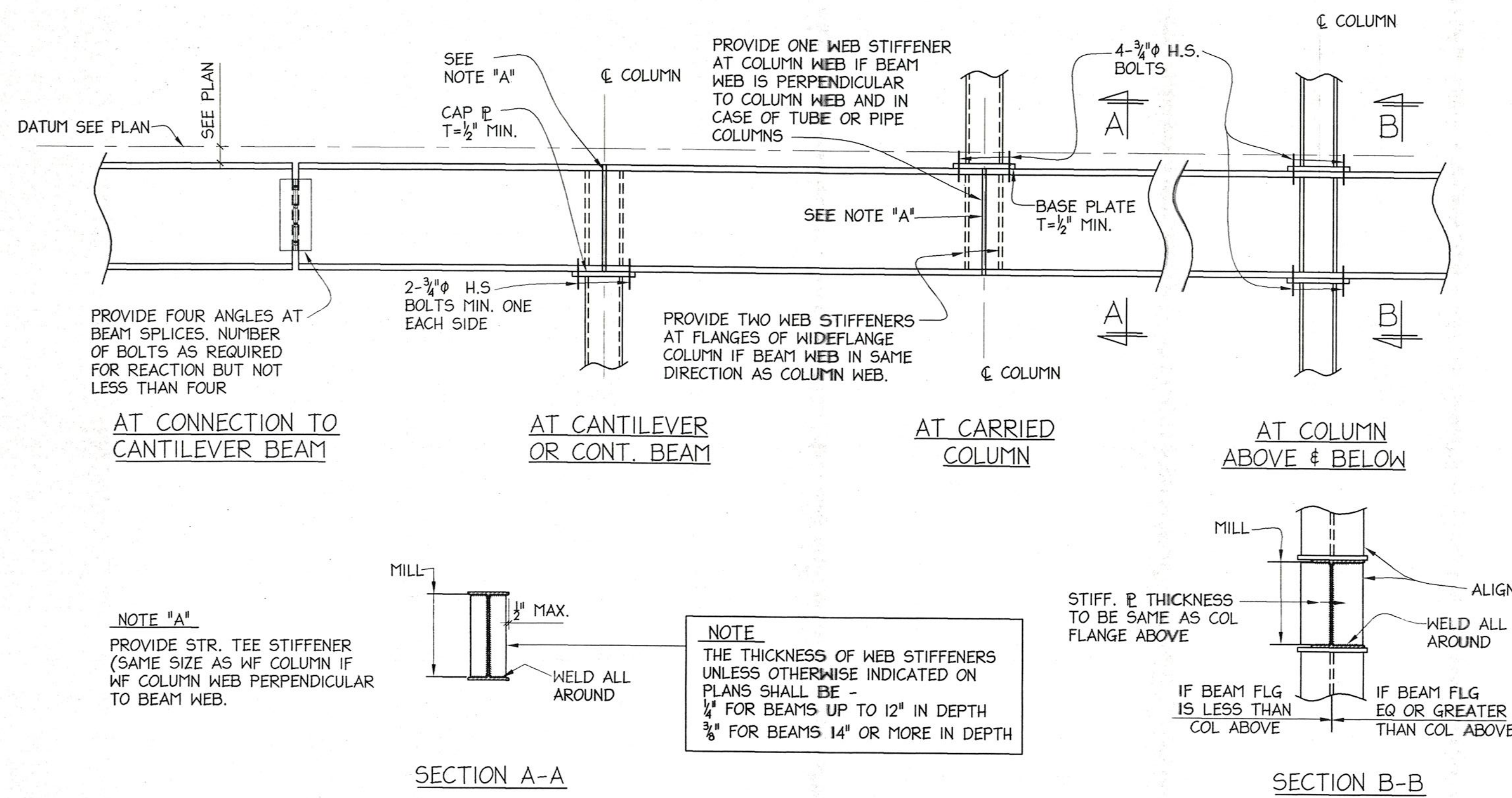
FOR CONSTRUCTION

METAL STRUCTURES
BRETON
STEEL

500 Sagard St. St-Bruno, (Quebec) Tel: (450) 653-9999
Fax: (450) 653-1463
Internet: bretonsteel.com

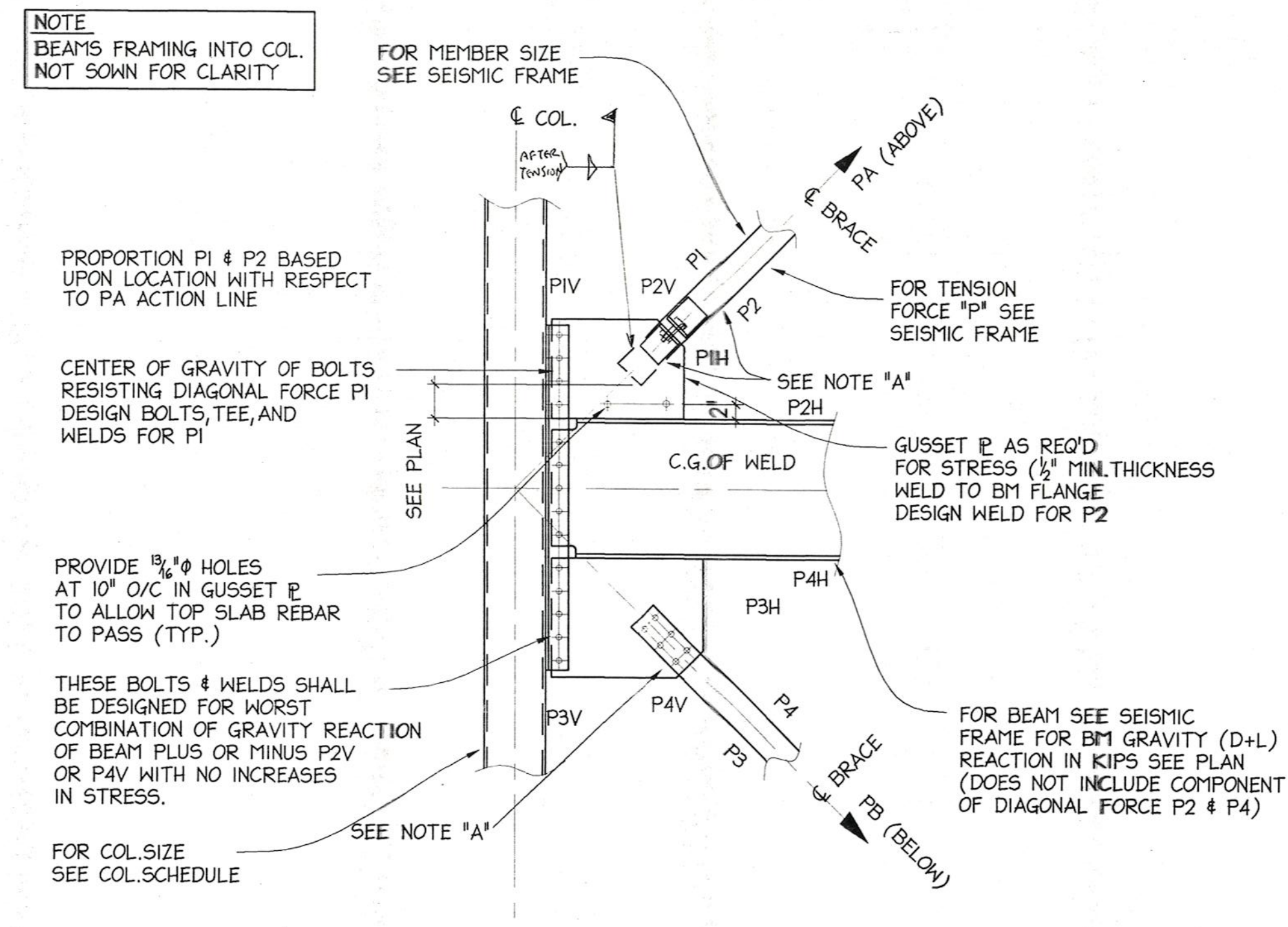
Contract #:	00-500
Drawn by:	M.HOWE
Checked by:	R
Scale:	3/4" = 1'-0"
Date:	02-08-00

SE8 2



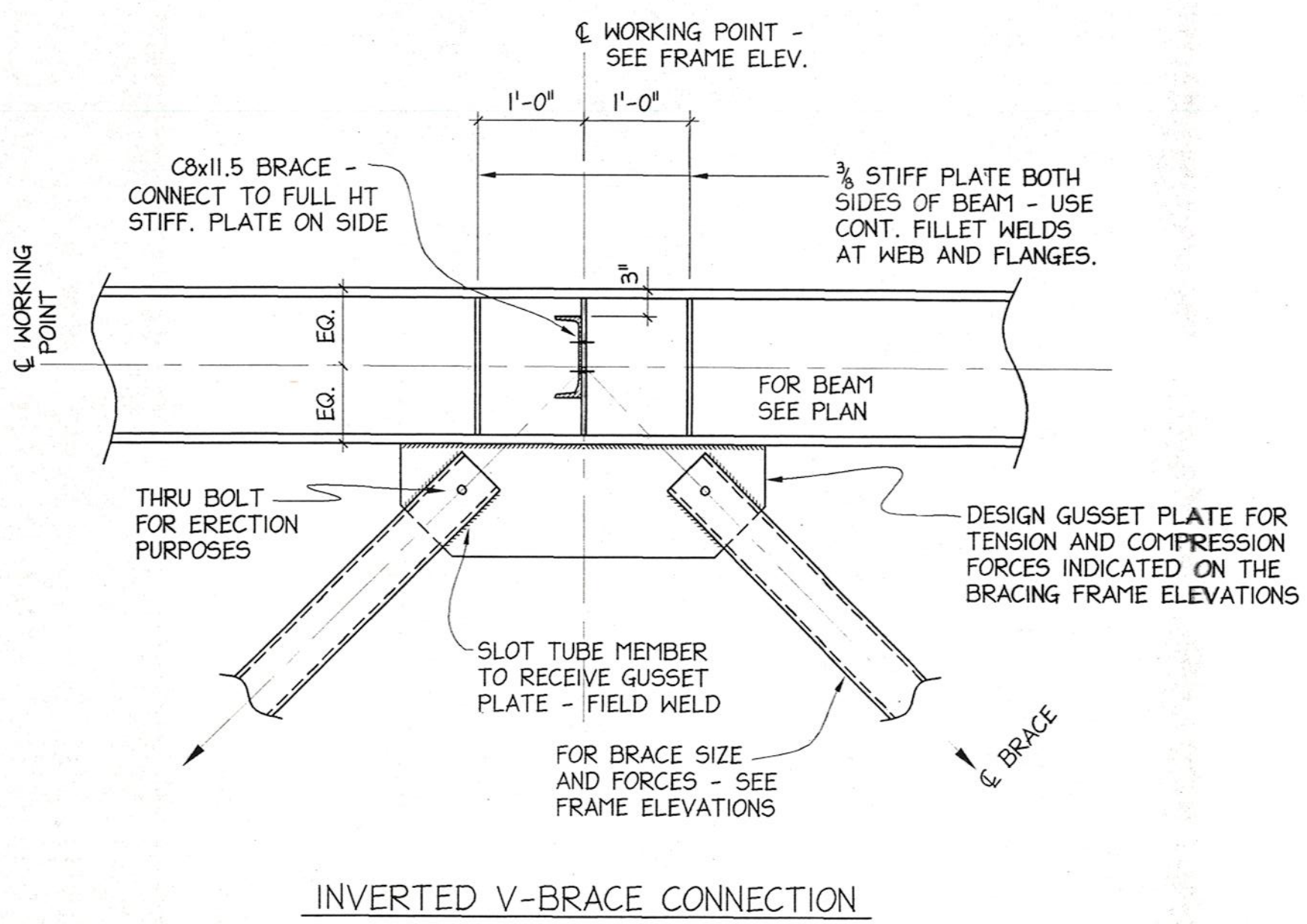
TYPICAL DETAIL AT CANTILEVER AND AT CARRIED COLUMN

NO SCALE

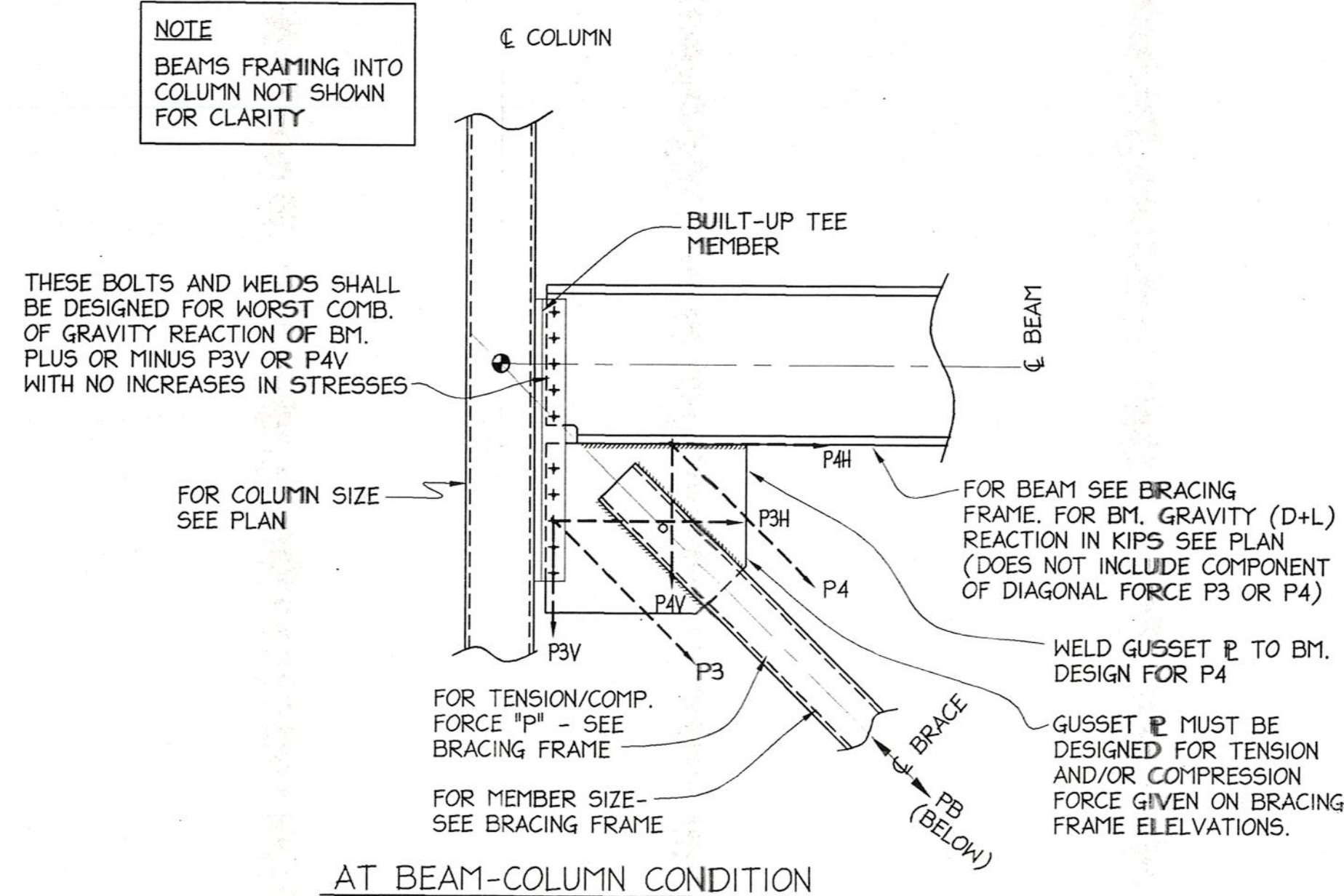


TYPICAL SEISMIC BRACING CONNECTION DETAIL

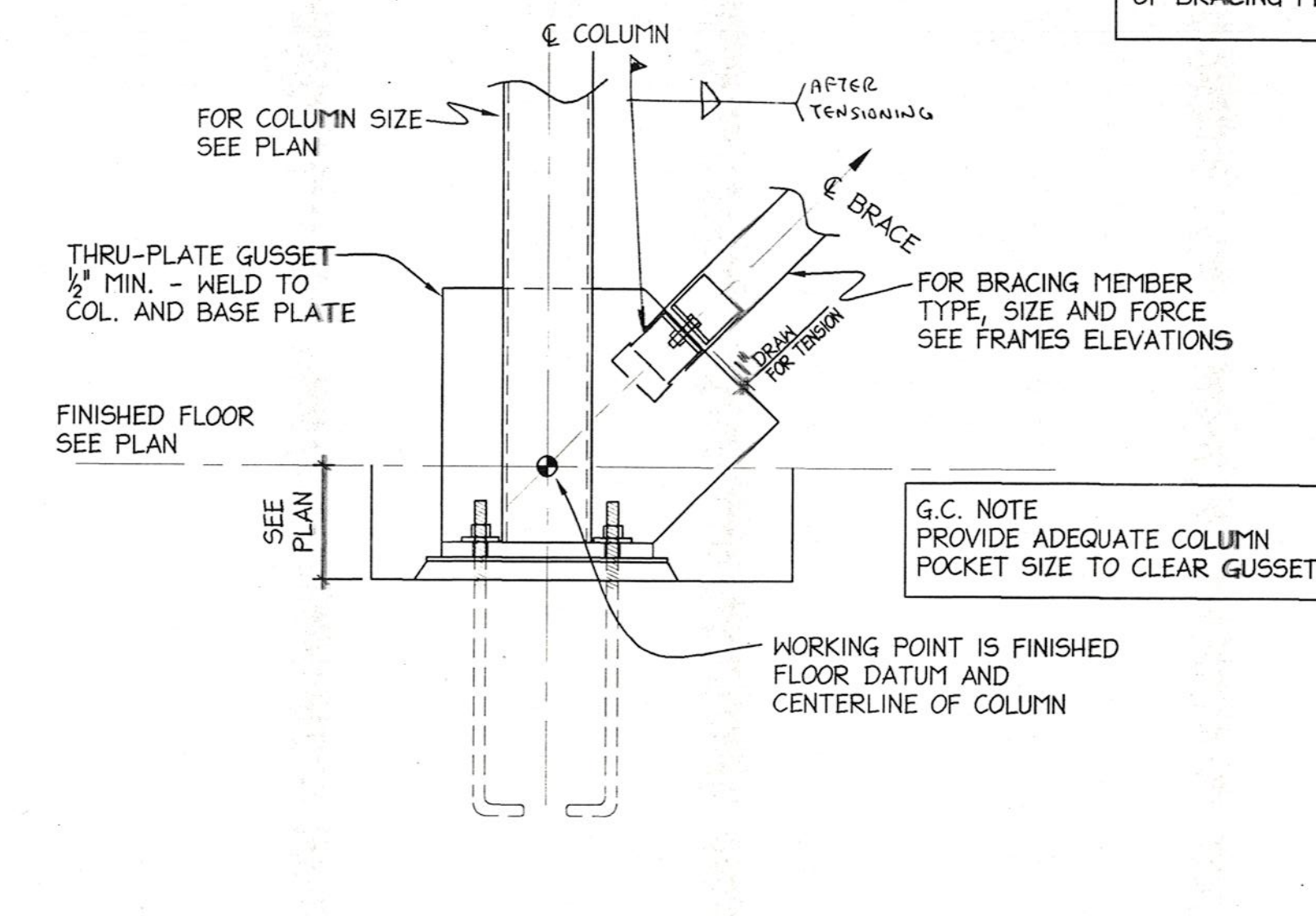
NO SCALE



INVERTED V-BRACE CONNECTION



AT BEAM-COLUMN CONDITION



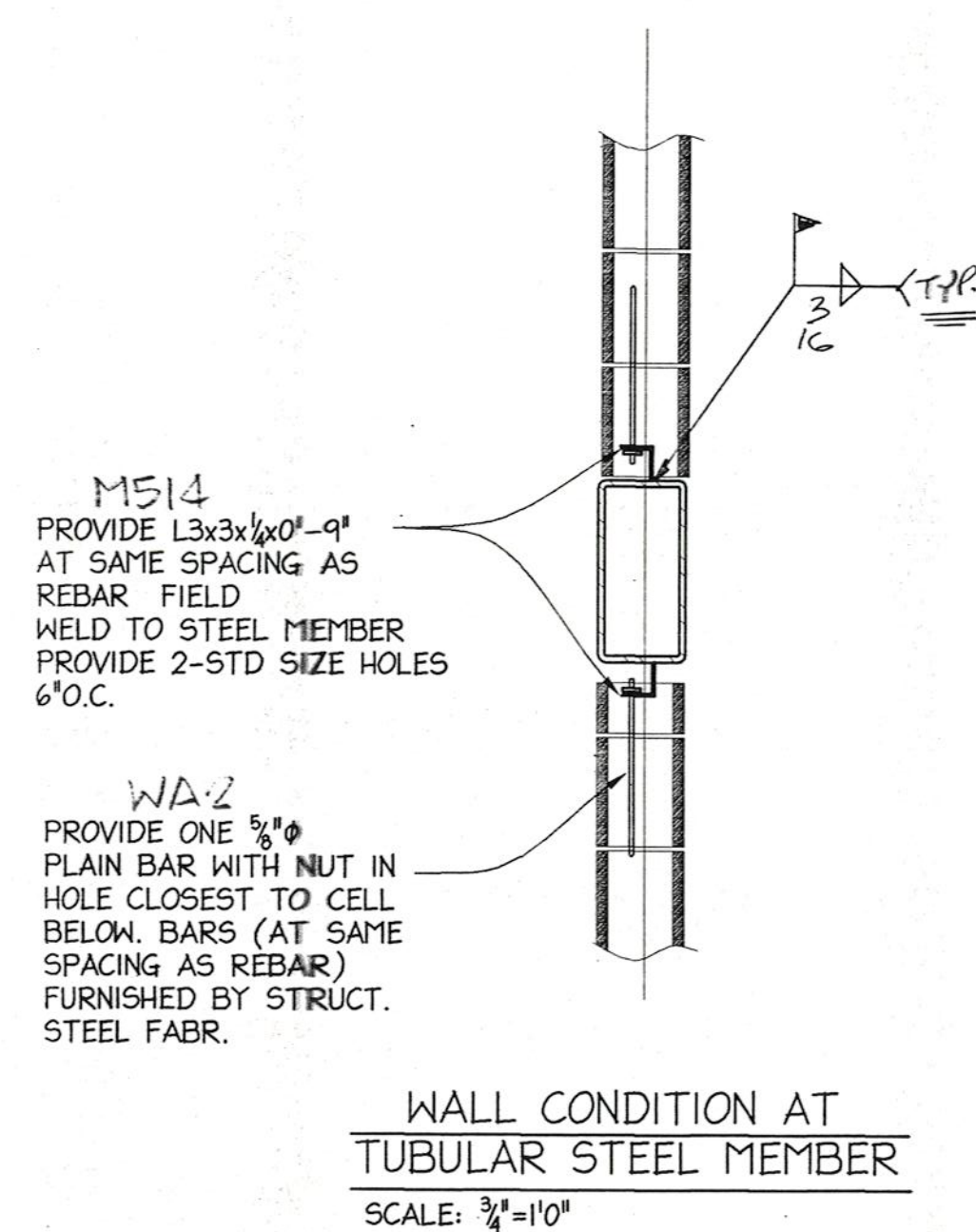
AT FNDN-COLUMN CONDITION

TYPICAL CONCENTRIC BRACING CONNECTION DETAIL

NO SCALE

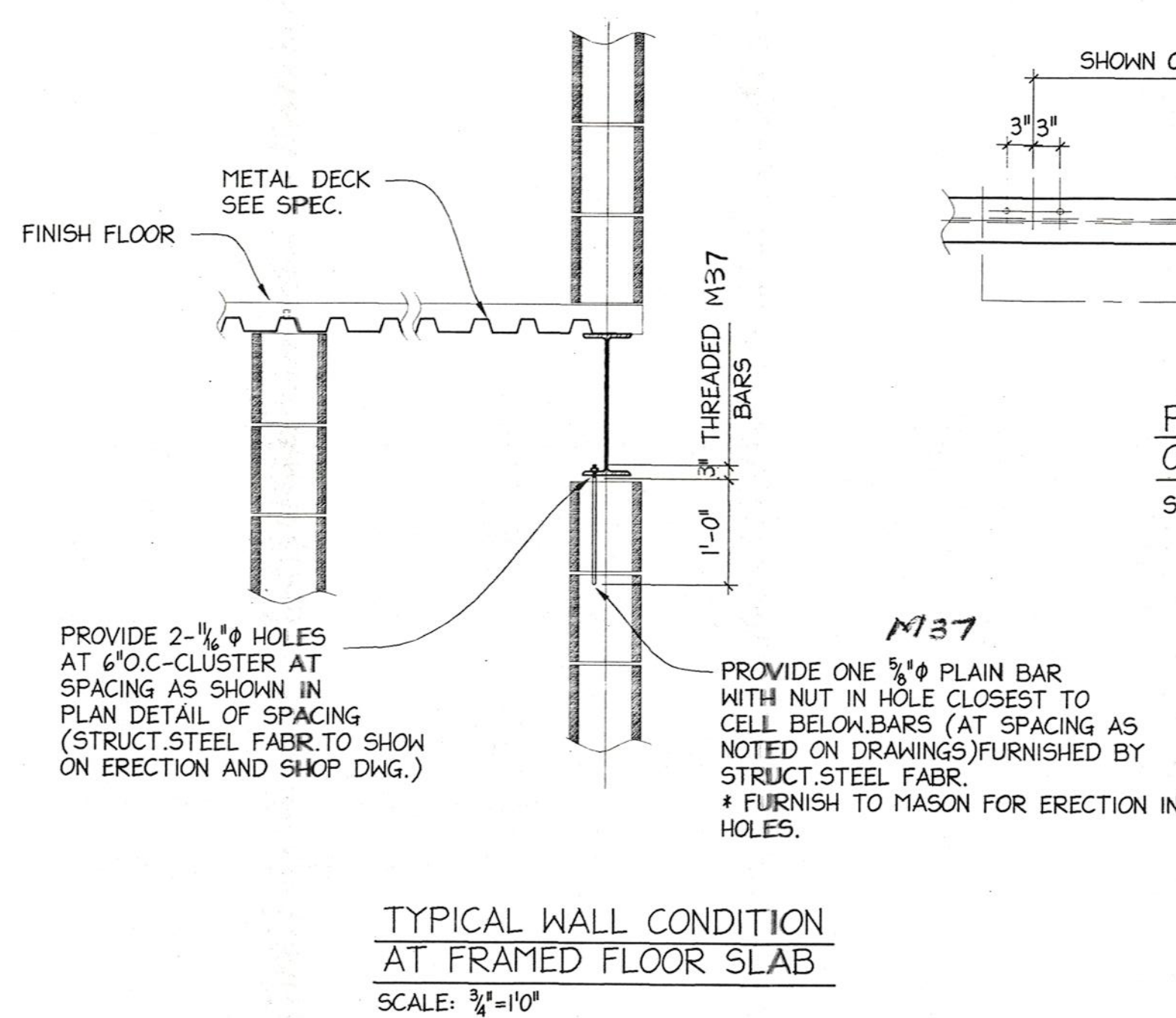
TYPICAL BRACING CONNECTION DETAIL

NO SCALE



WALL CONDITION AT TUBULAR STEEL MEMBER

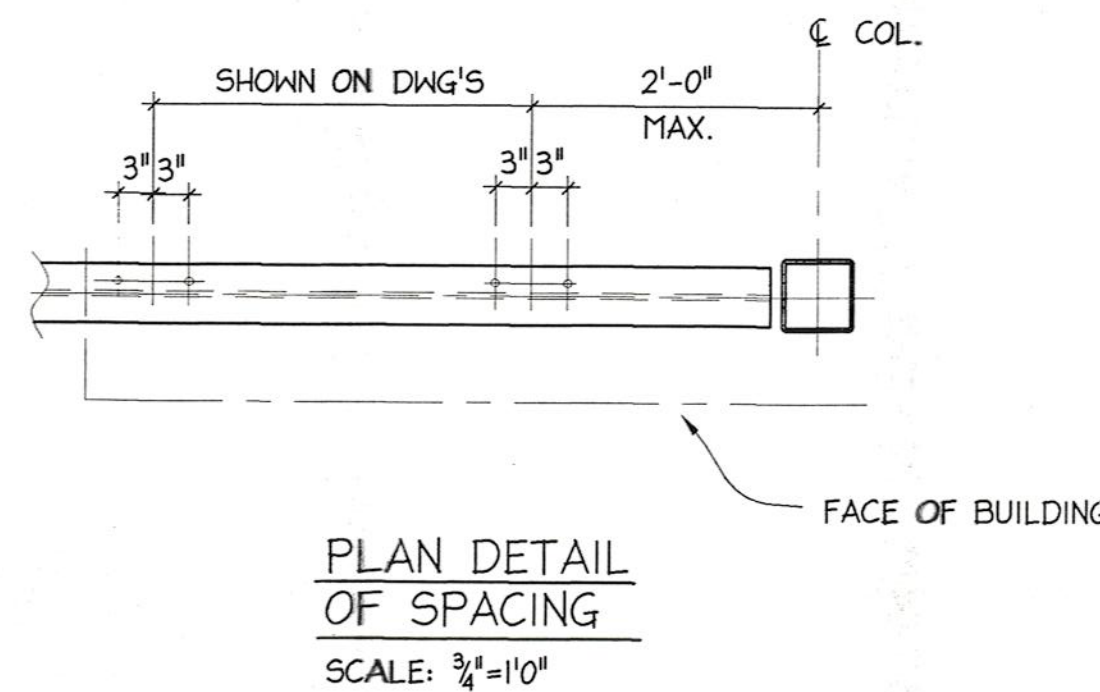
SCALE: 3/4\"/>



TYPICAL WALL CONDITION AT FRAMED FLOOR SLAB

SCALE: 3/4\"/>

TYPICAL EXTERIOR WALL REINFORCING DETAILS



PLAN DETAIL OF SPACING

SCALE: 3/4\"/>

FOR CONSTRUCTION

NOTE "A"
DESIGN FOR TENSION FORCE "P" USING CLASS A SLIP CRITICAL HIGH STRENGTH BOLTS WITH NO INCREASE IN STRESSES. PROVIDE 4 BOLTS MINIMUM FOR CONNECTION OF BRACING PLATE TO GUSSET PLATE.

No.	Date	Revision	Init.

PROJECT:
WHISCONIER
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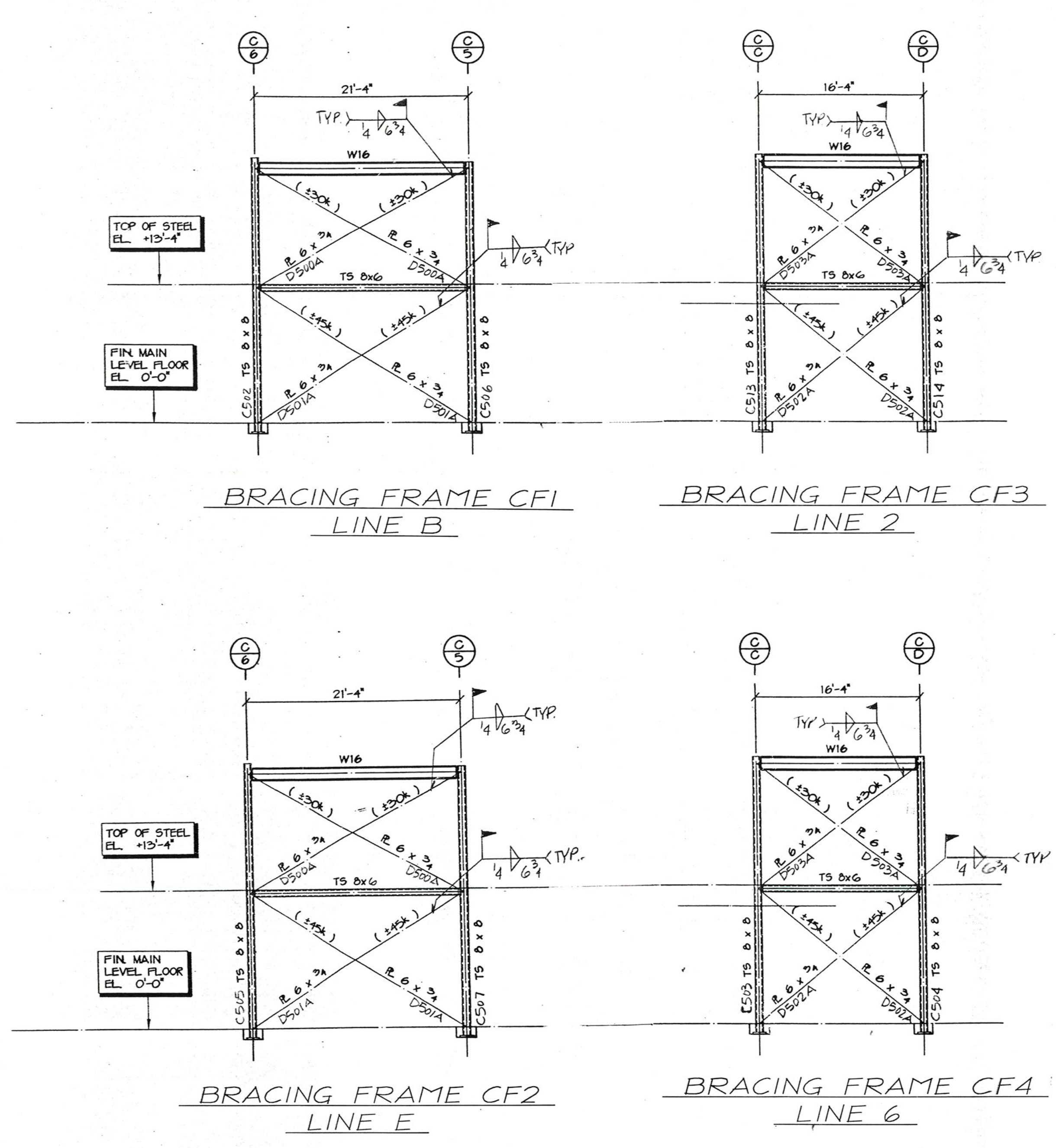
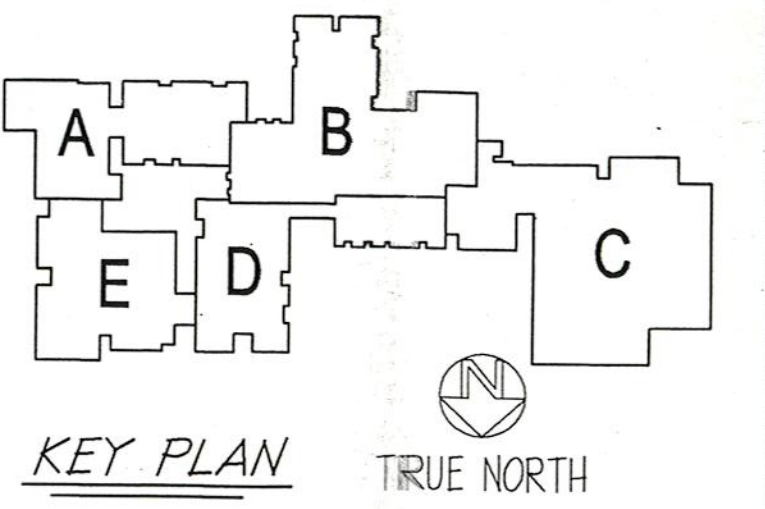
TYPICAL
DETAILS

METAL STRUCTURES
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Contract #:	00-500
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Checked by:	<i>[Signature]</i>
Scale:	NO SCALE
Date:	02-08-00

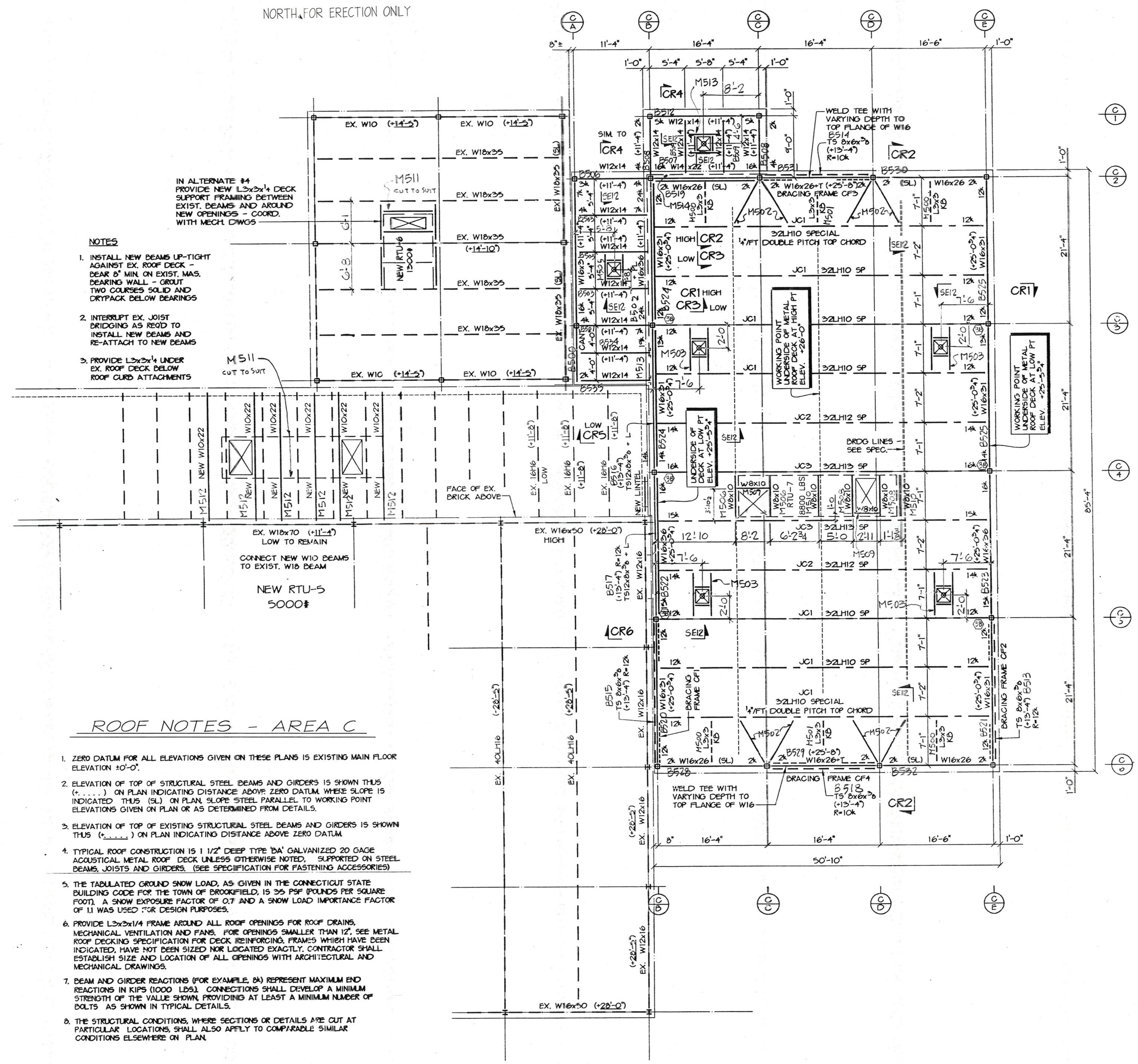
SE9



NORTH FOR ERECTION ONLY

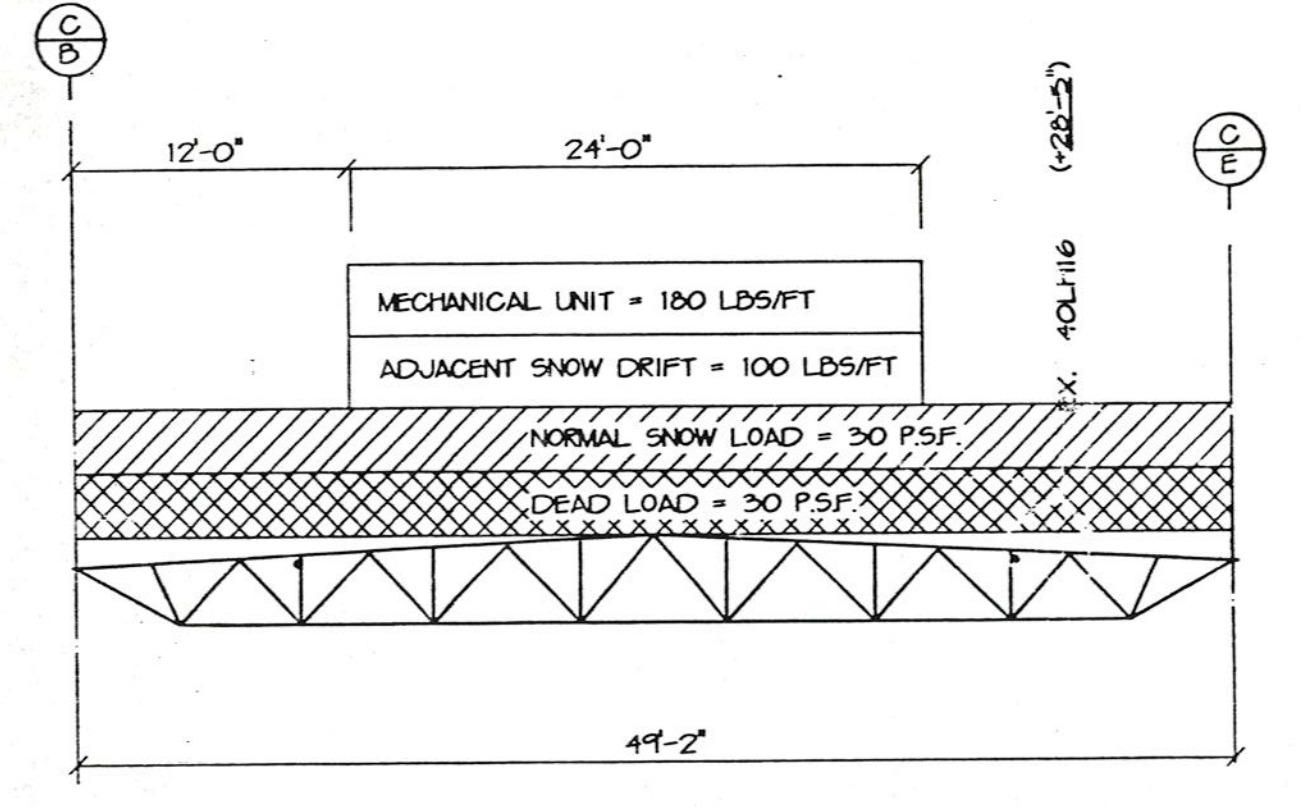
NOTES

1. INSTALL NEW BEAMS UP-TIGHT AGAINST EX. ROOF DECK - DEAR 8" MIN ON EXIST. WAS. BEARING WALL - GROUT TWO COURSES SOLID AND CRYPACK BELOW DEARINGS
2. INTERRUPT EX. JOIST DRIDGING AS REQ'D TO INSTALL NEW BEAMS AND RE-ATTACH TO NEW BEAMS
3. PROVIDE L3x4x1/4 UNDER EX. ROOF DECK BELOW ROOF CLRD ATTACHMENTS

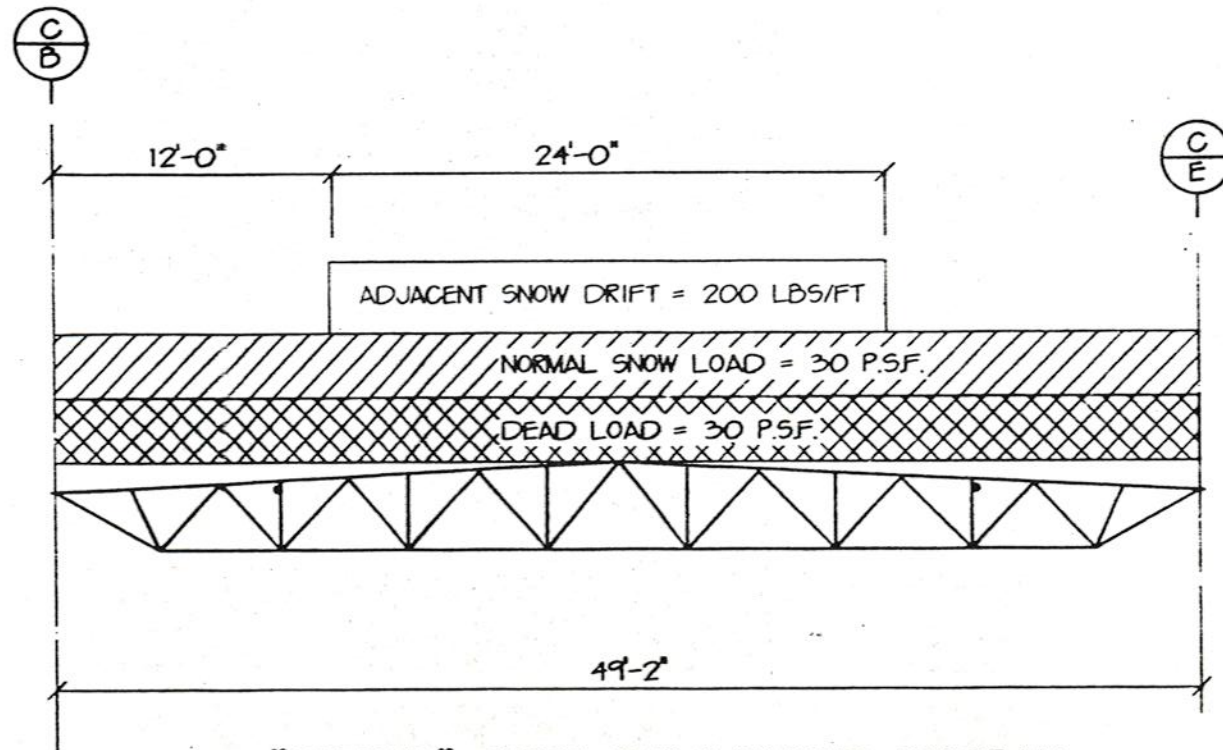


ROOF NOTES - AREA C

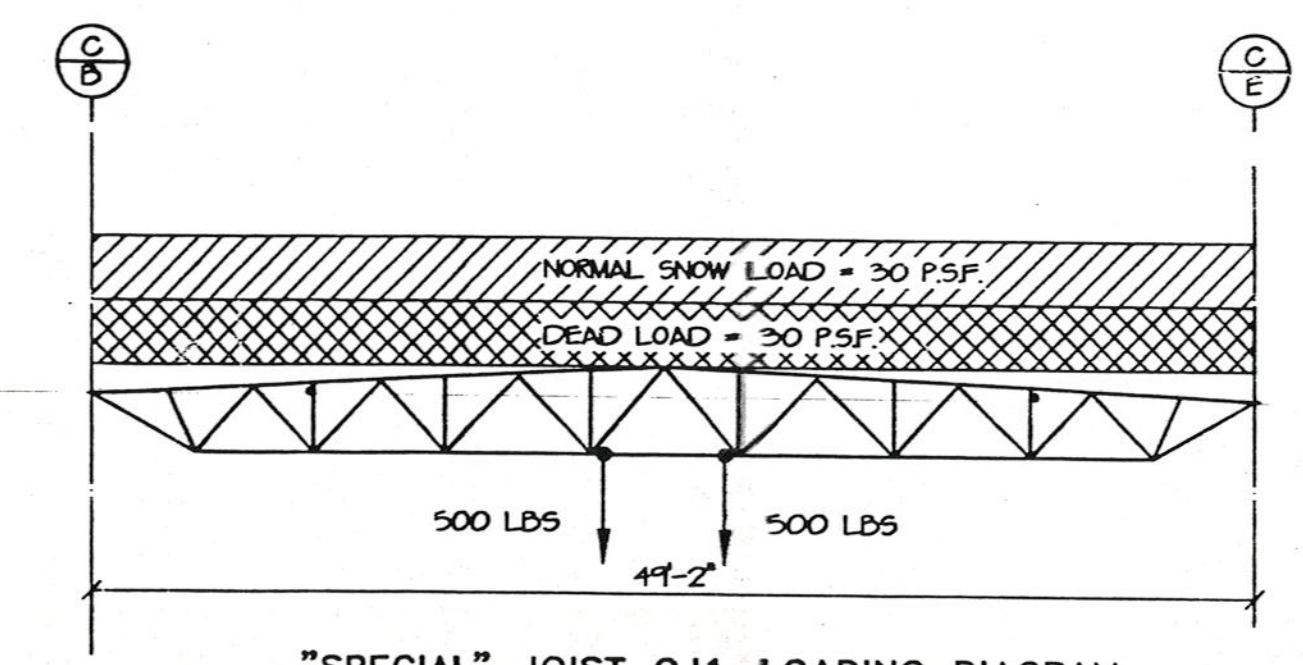
1. ZERO DATUM FOR ALL ELEVATIONS GIVEN ON THESE PLANS IS EXISTING MAIN FLOOR ELEVATION 10'-0".
2. ELEVATION OF TOP OF STRUCTURAL STEEL BEAMS AND ORDERS IS SHOWN THUS (.....) ON PLAN INDICATING DISTANCE ABOVE ZERO DATUM WHERE SLOPE IS INDICATED THUS (SL) ON PLAN SLOPE STEEL PARALLEL TO WORKING POINT ELEVATIONS GIVEN ON PLAN OR AS DETERMINED FROM DETAILS.
3. ELEVATION OF TOP OF EXISTING STRUCTURAL STEEL BEAMS AND ORDERS IS SHOWN THUS (.....) ON PLAN INDICATING DISTANCE ABOVE ZERO DATUM.
4. TYPICAL ROOF CONSTRUCTION IS 1 1/2" DEEP TYPE 10A GALVANIZED 20 GAUGE ACQUSTICAL METAL ROOF DECK UNLESS OTHERWISE NOTED, SUPPORTED ON STEEL BEAMS, JOISTS AND ORDERS. (SEE SPECIFICATION FOR FASTENING ACCESSORIES).
5. THE TABULATED GROUND SNOW LOAD, AS GIVEN IN THE CONNECTICUT STATE BUILDING CODE FOR THE TOWN OF BROOKFIELD, IS 35 PSF (POUNDS PER SQUARE FOOT). A SNOW EXPOSURE FACTOR OF 0.7 AND A SNOW LOAD IMPORTANCE FACTOR OF 1.1 WAS USED FOR DESIGN PURPOSES.
6. PROVIDE L3x4x1/4 FRAME AROUND ALL ROOF OPENINGS FOR ROOF DRAINS, MECHANICAL VENTILATION AND FANS. FOR OPENINGS SMALLER THAN 1/2", SEE METAL ROOF DECKING SPECIFICATION FOR DECK REINFORCING, FRAMES WHICH HAVE BEEN INDICATED, HAVE NOT BEEN SIZED NOR LOCATED EXACTLY. CONTRACTOR SHALL ESTABLISH SIZE AND LOCATION OF ALL OPENINGS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
7. BEAM AND GIRDER REACTIONS (FOR EXAMPLE, 2A) REPRESENT MAXIMUM END REACTIONS IN KIPS (1000 LBS). CONNECTIONS SHALL DEVELOP A MINIMUM STRENGTH OF THE VALUE SHOWN, PROVIDING AT LEAST A MINIMUM NUMBER OF BOLTS, AS SHOWN IN TYPICAL DETAILS.
8. THE STRUCTURAL CONDITIONS, WHERE SECTIONS OR DETAILS ARE CUT AT PARTICULAR LOCATIONS, SHALL ALSO APPLY TO COMPARABLE SIMILAR CONDITIONS ELSEWHERE ON PLAN.
9. FOR TYPICAL DETAILS AND GENERAL NOTES, SEE DRAWINGS SEP 9 AND SEIO.



"SPECIAL" JOIST CJ3 LOADING DIAGRAM



"SPECIAL" JOIST CJ2 LOADING DIAGRAM



"SPECIAL" JOIST CJ1 LOADING DIAGRAM

ROOF FRAMING PLAN - AREA C

FOR CONSTRUCTION

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

ROOF FRAMING PLAN
PART "C"

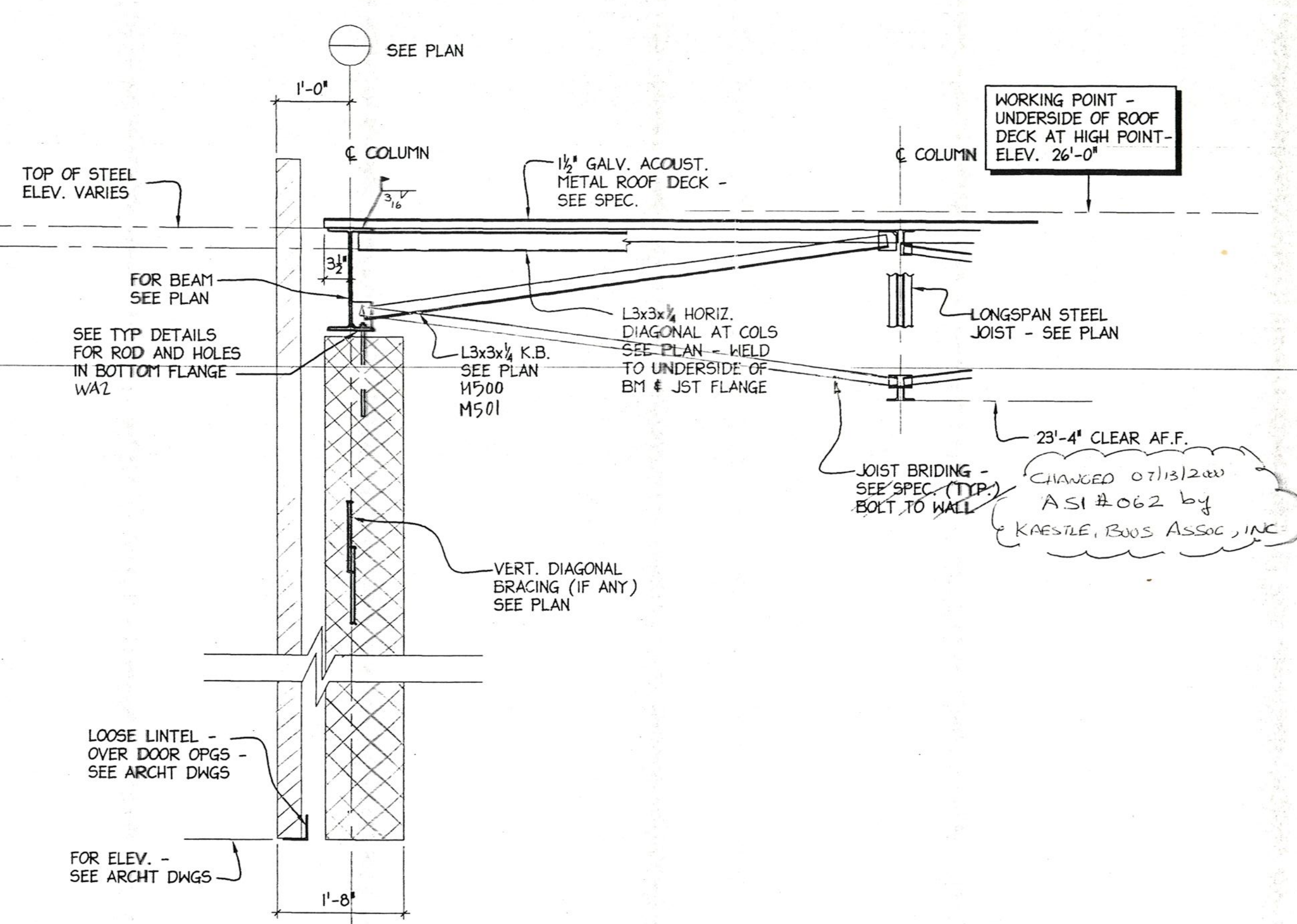
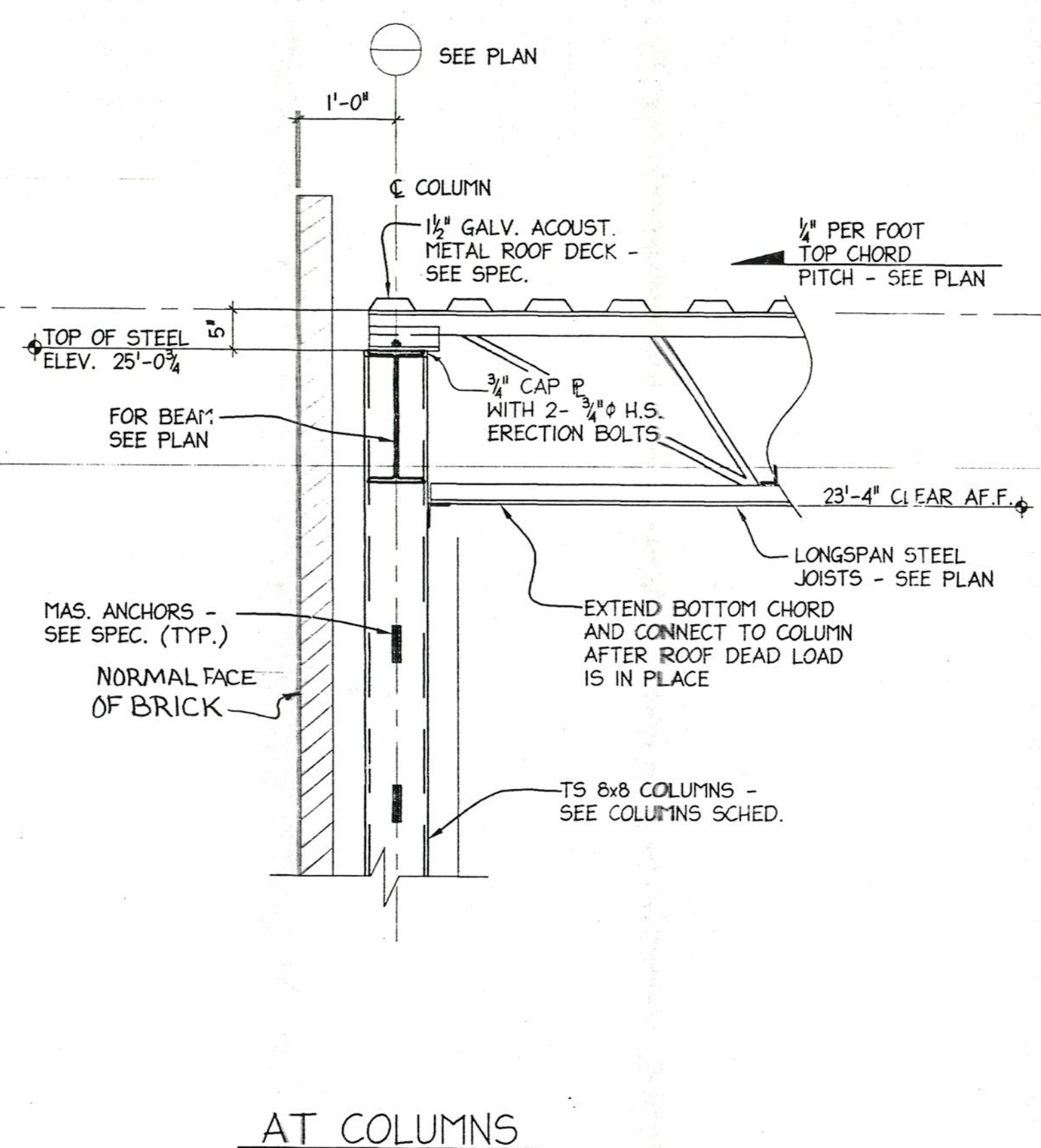
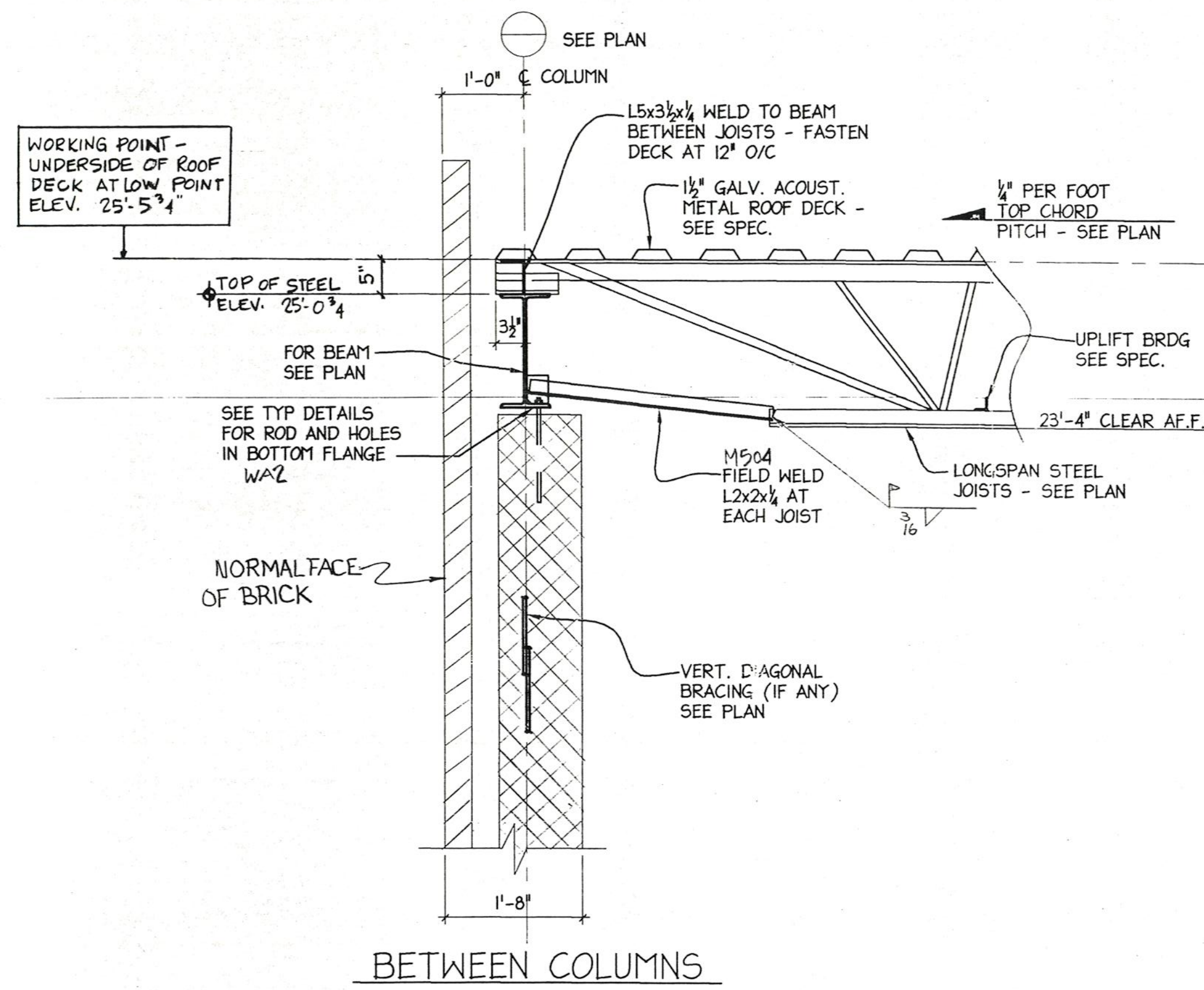
METAL STRUCTURES
BRETON
STEEL

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51-Bruno, Quebec) Fax: (460) 663-1163
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Contract #:	00-500
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Scale:	1/8" = 1'-0"
Date:	05-05-00



SE11

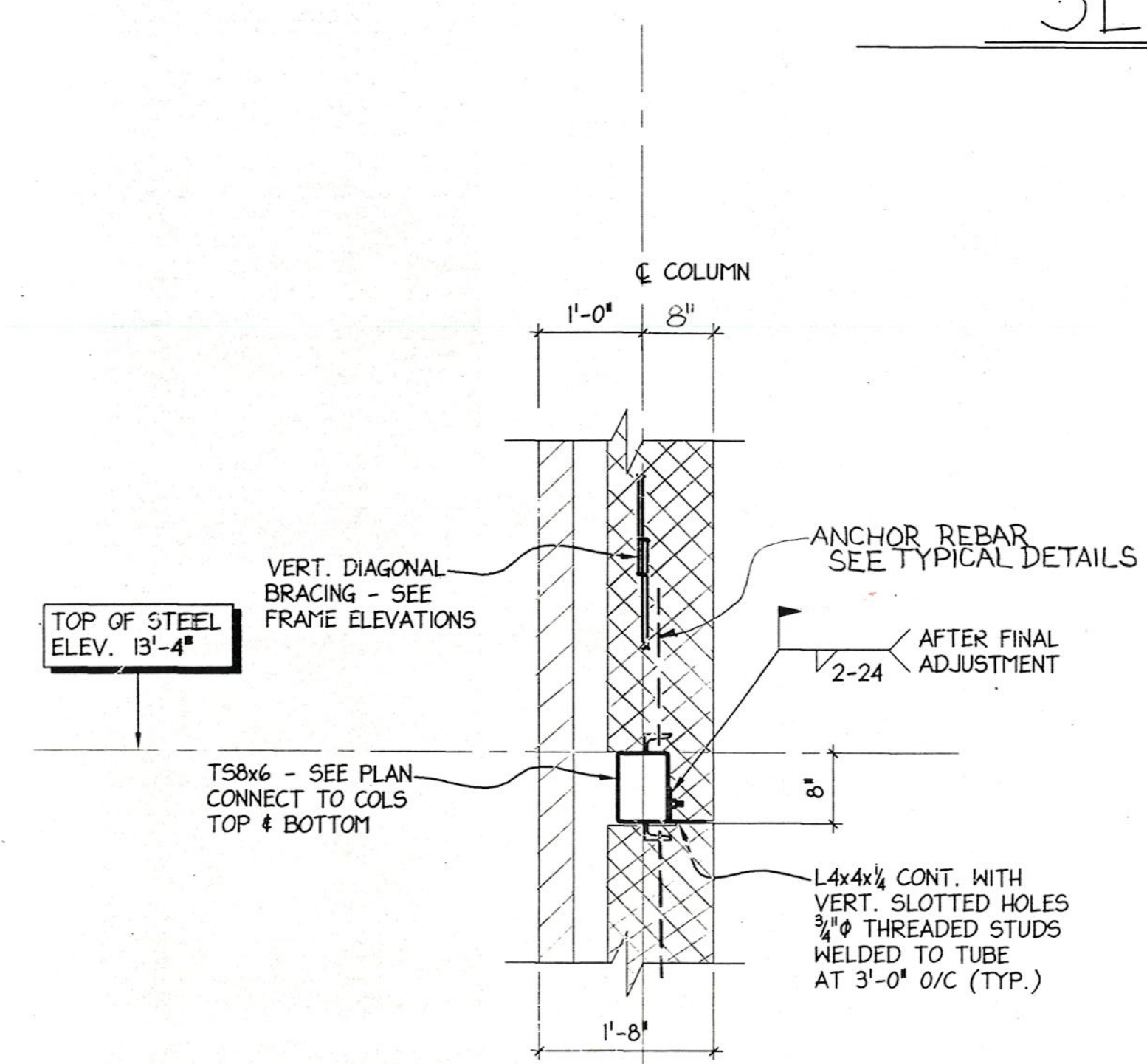


SECTION CRI

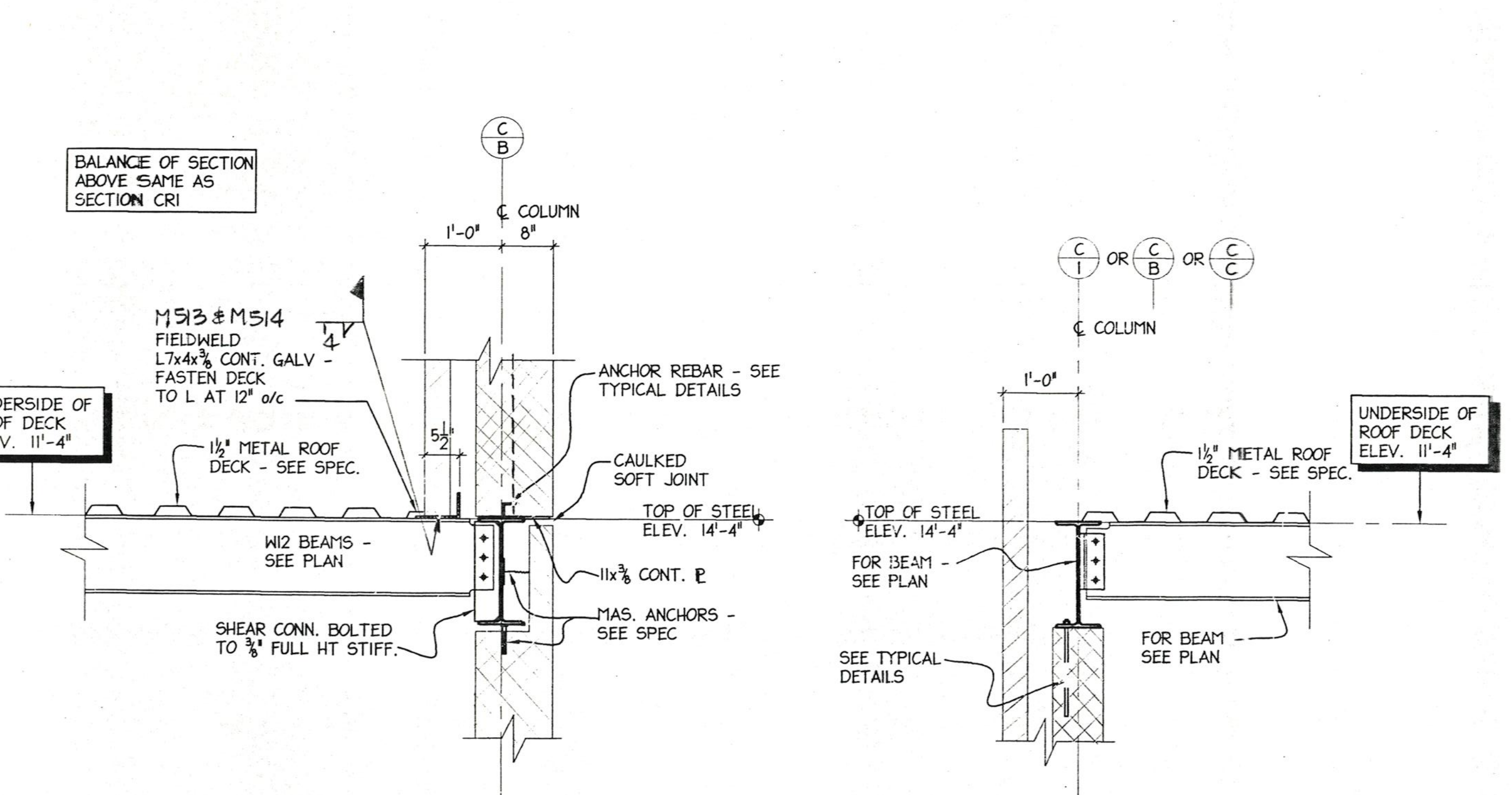
SCALE 3/4" = 1'-0"

SECTION CR2

SCALE 3/4" = 1'-0"

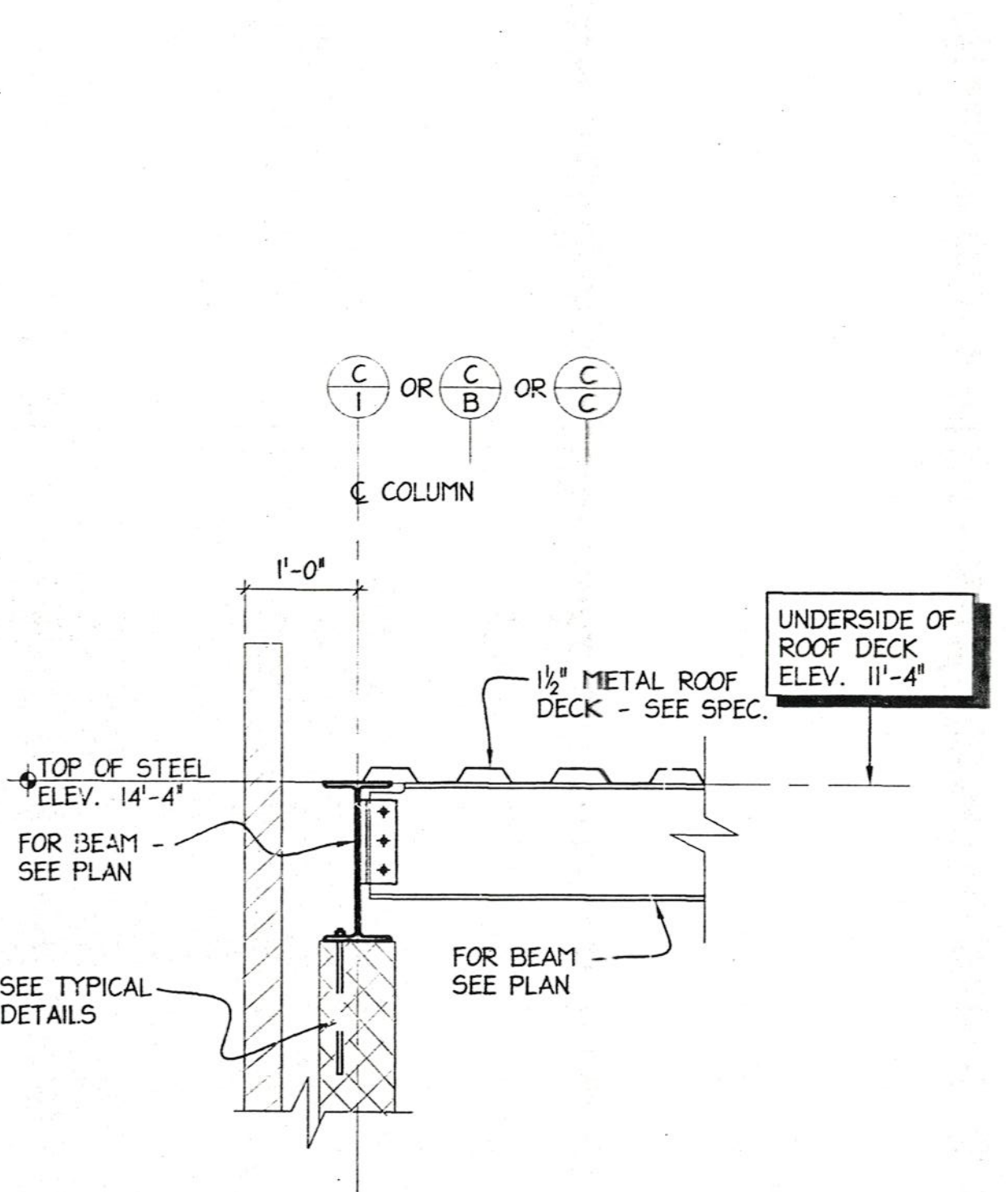


VARIATION OF SECTION CRI & CR2 AT T58x6 AS OCCURRING - SEE PLAN



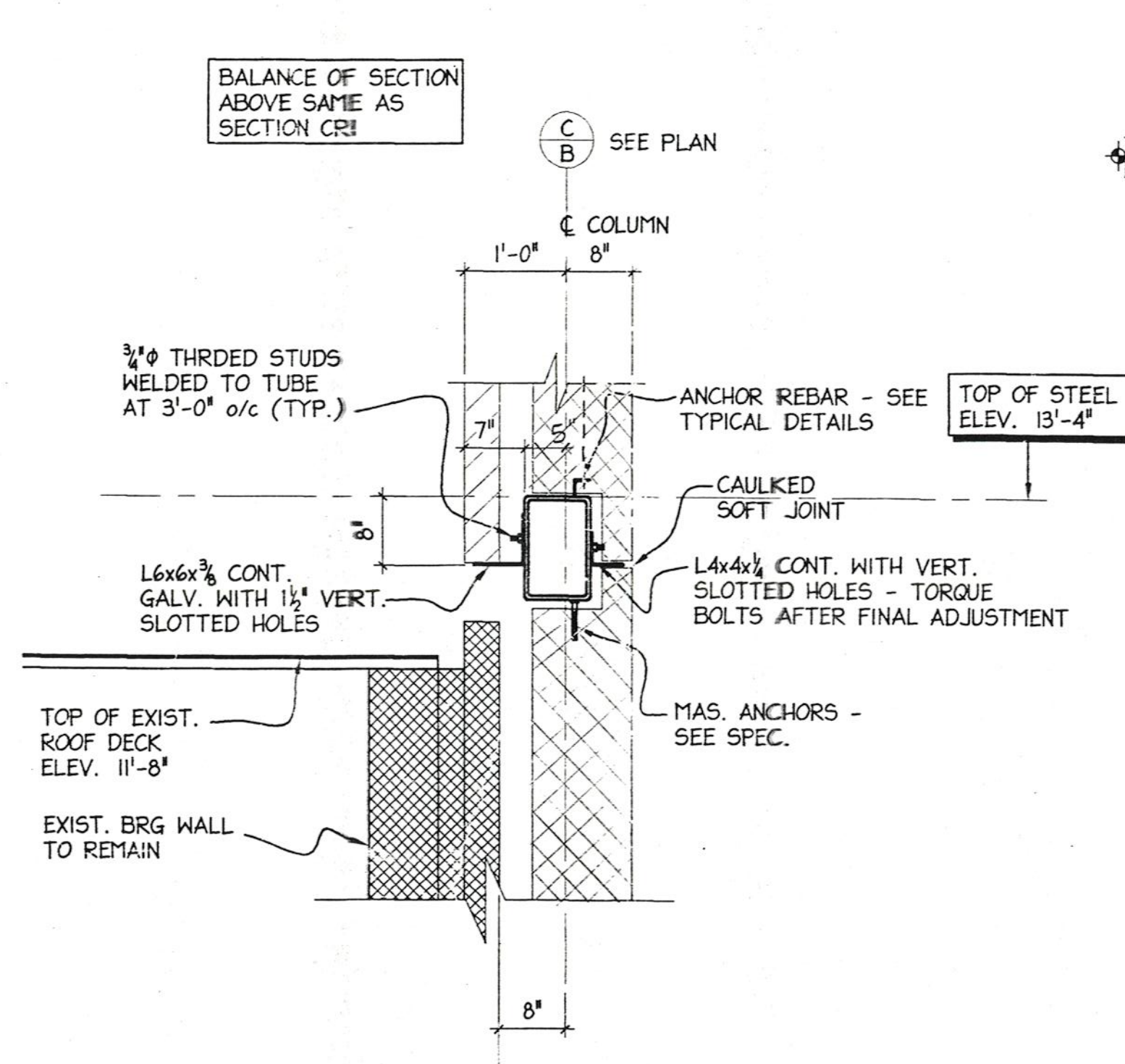
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SCALE 3/4" = 1'-0"



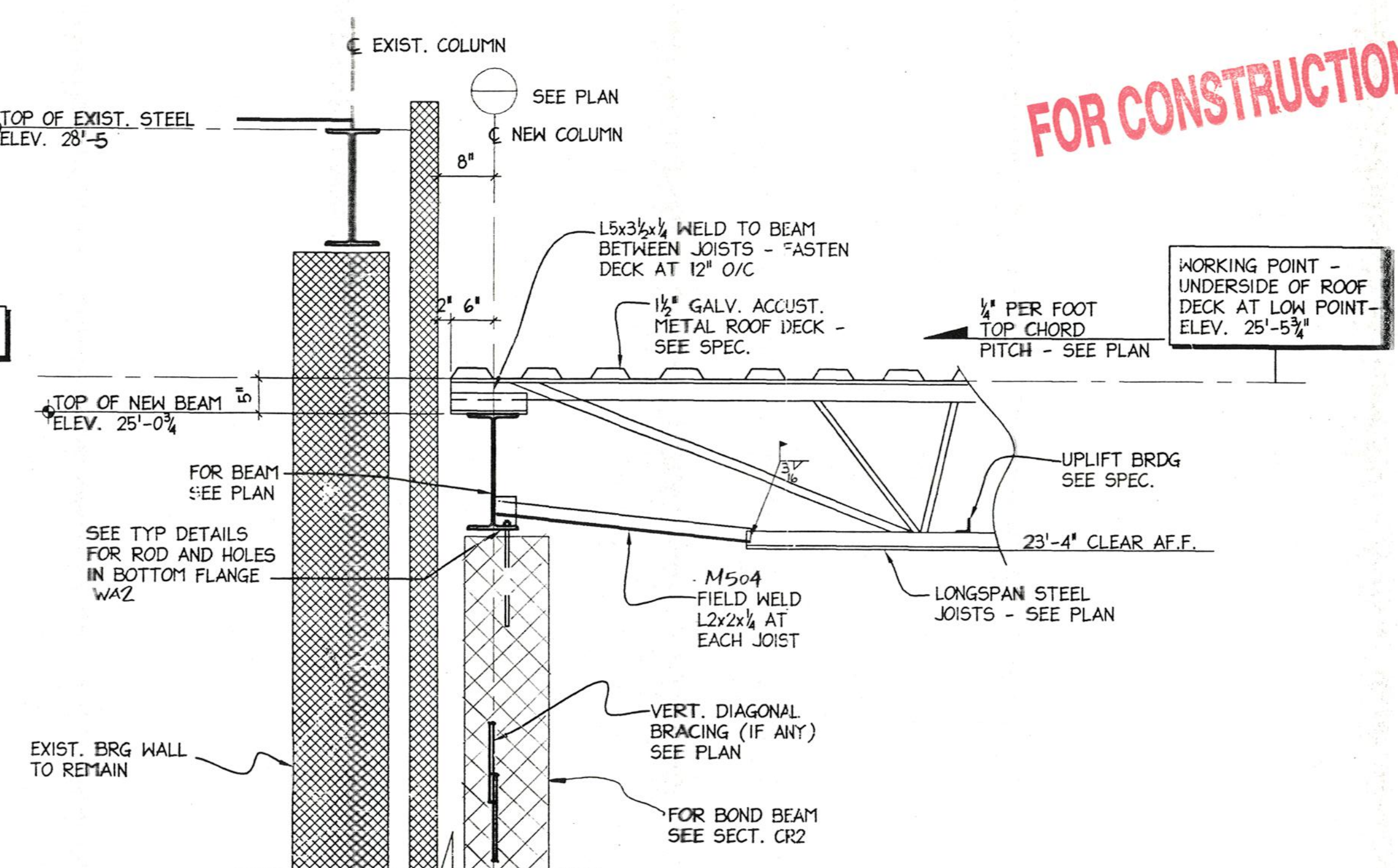
SECTION CR4

SCALE 3/4" = 1'-0"



SECTION CR5

SCALE 3/4" = 1'-0"



SECTION CR6

SCALE 3/4" = 1'-0"

FOR CONSTRUCTION

No.	Date	Revision

PROJECT:
WHISCONIER
MIDDLE SCHOOL
BROOKFIELD
CONNECTICUT

ROOF
DETAILS

METAL STRUCTURE
BRETON
STEEL

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Internet: bretonsteel.com

Contract #: 00-500
Drawn by: MB
Checked by:
Scale: ON PL
Date: