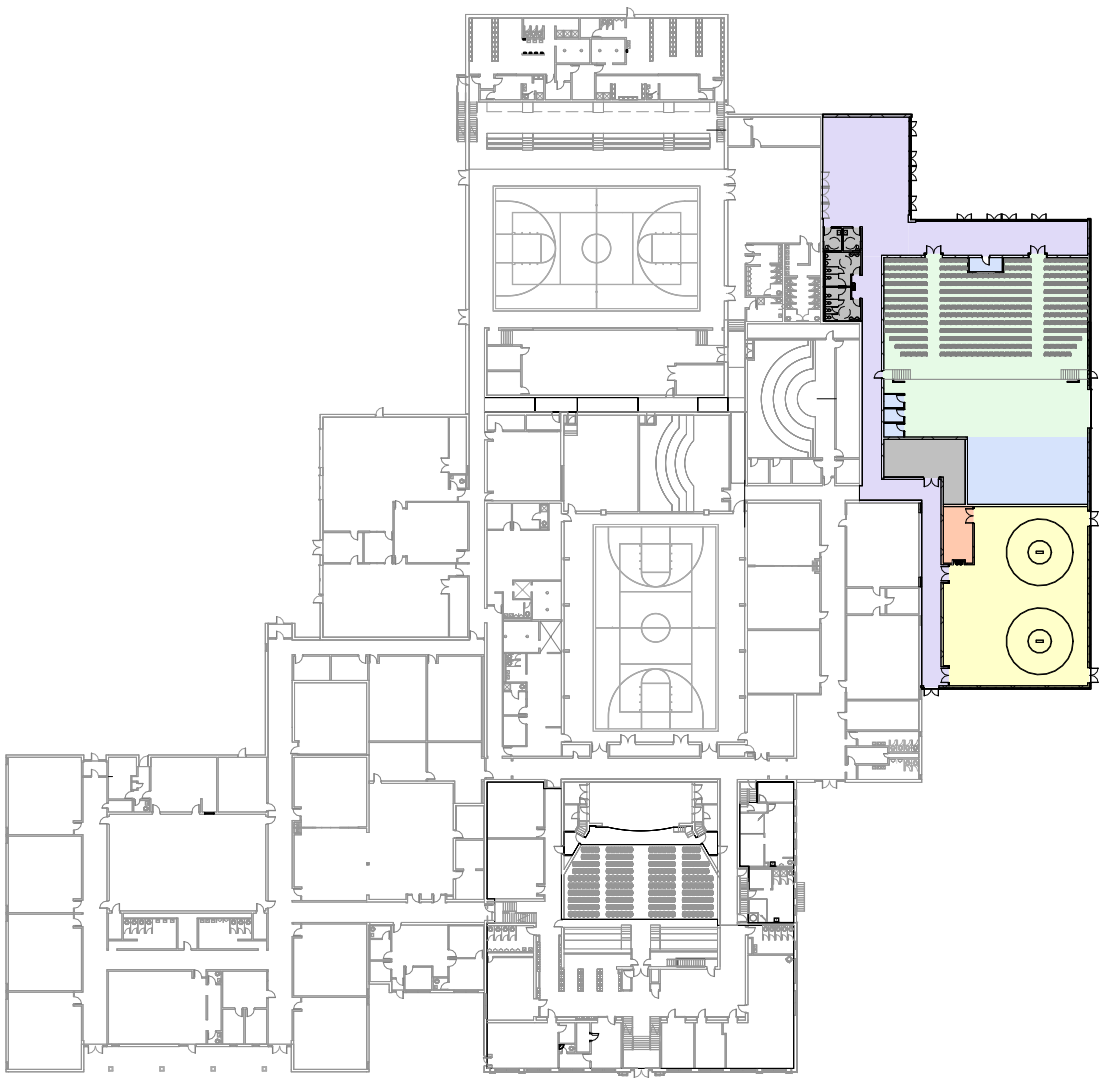
Addendum #1
Cambridge Public Schools
RFP for Construction Manager at Risk

November 15, 2024

The Request for Proposals (RFP) Manual for the Construction Manager at Risk for Cambridge Public Schools, issued on November 7, 2024, is hereby amended and modified as follows:

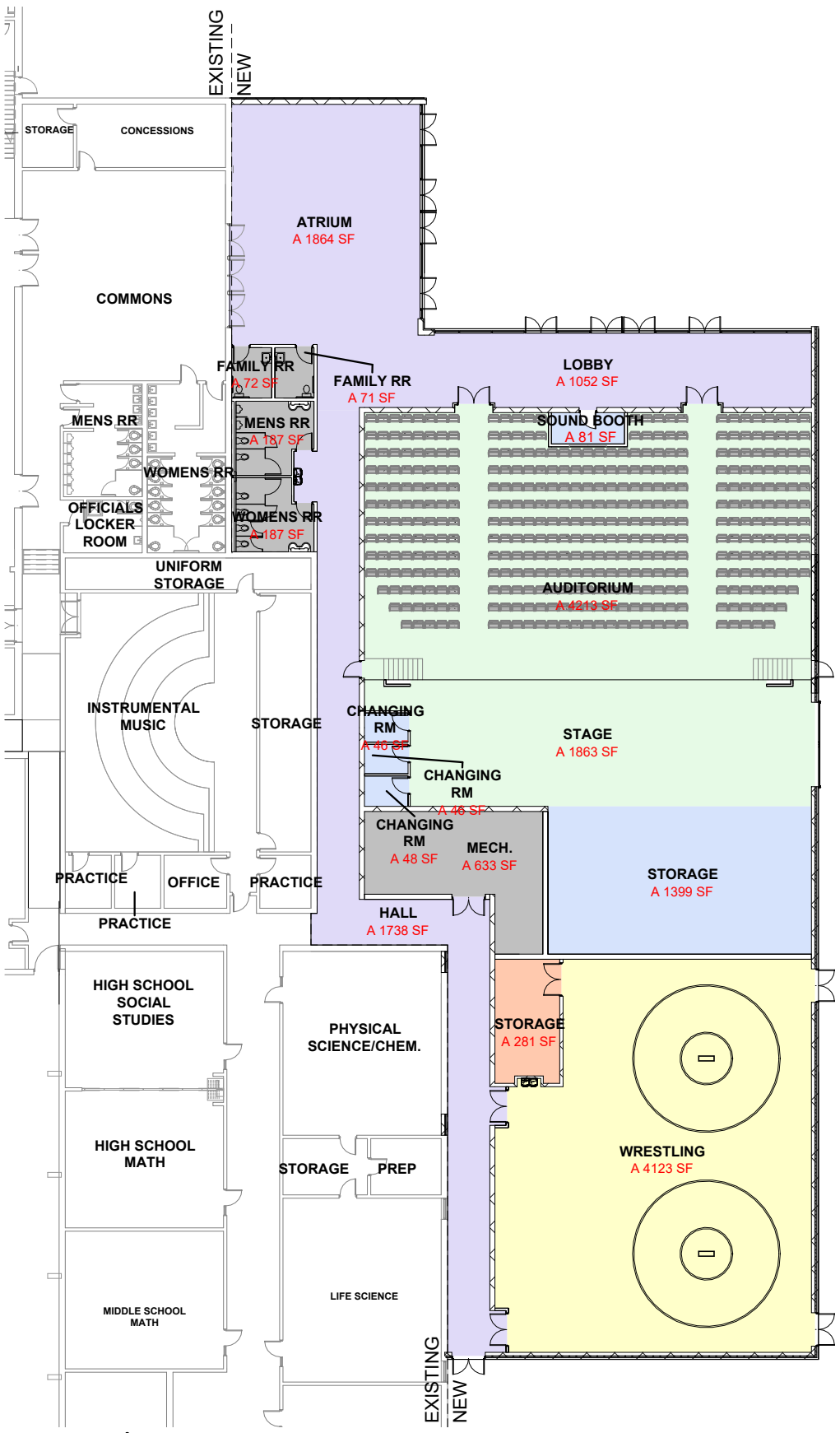
1. **CONCEPT SCHEMATIC OPTIONS.** The Project Architect has developed eight (8) options for possible work within the scope of the proposed Project, all of which are under consideration by the School. Schematic-level diagrams for the eight options, Options A through H, will be available for download on the A&D Technical Supply website, at Public Jobs. (https://plans.adtechsupply.com/view/ViewJob.aspx?job_id=13829).

2. **EXISTING BUILDING PLANS.** Scanned electronic copies of the existing building plans maintained by the School will be available for download on the A&D Technical Supply website, at Public Jobs. (https://plans.adtechsupply.com/view/ViewJob.aspx?job_id=13829).



FLOOR PLAN - FIRST

N | 1 / P-1 | SCALE: 1" = 80'-0"



Department Legend

- AUDITORIUM
- CIRCULATION
- MEP
- STAGE SUPPORT
- STORAGE
- TOILET
- WRESTLING

EXISTING SF: 100,850 SF

RENOVATION SF: 0 SF

NEW ADDITION SF: 18,907 SF

TOTAL SF: 119,757 SF

Copyright © 2024
www.WilkinsADP.com

FLOOR PLAN - FIRST ENLARGED

N | 2 / P-1 | SCALE: 1" = 30'-0"

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION A

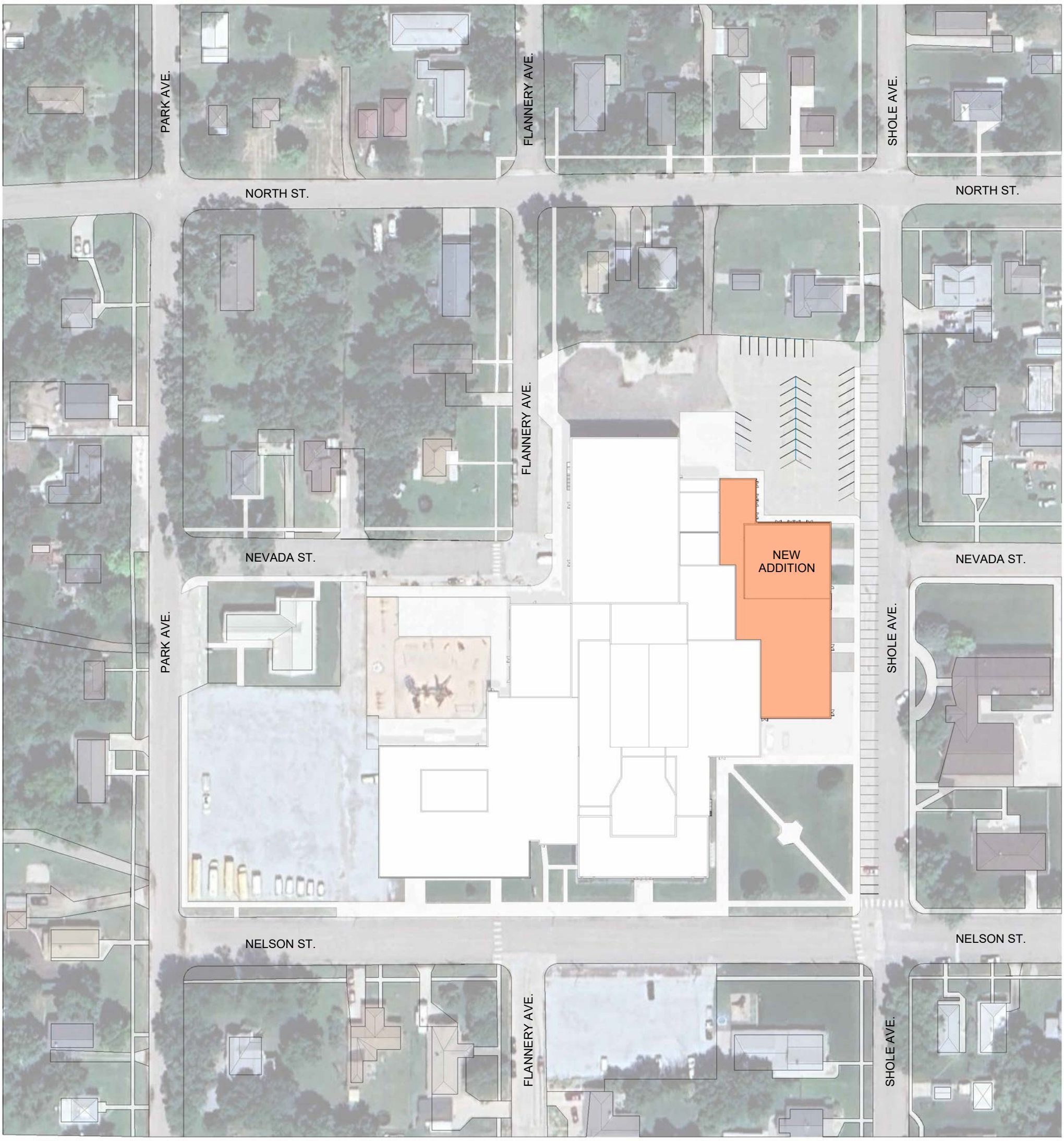
CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 0 SF

NEW ADDITION SF: 18,907 SF

TOTAL SF: 119,757 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

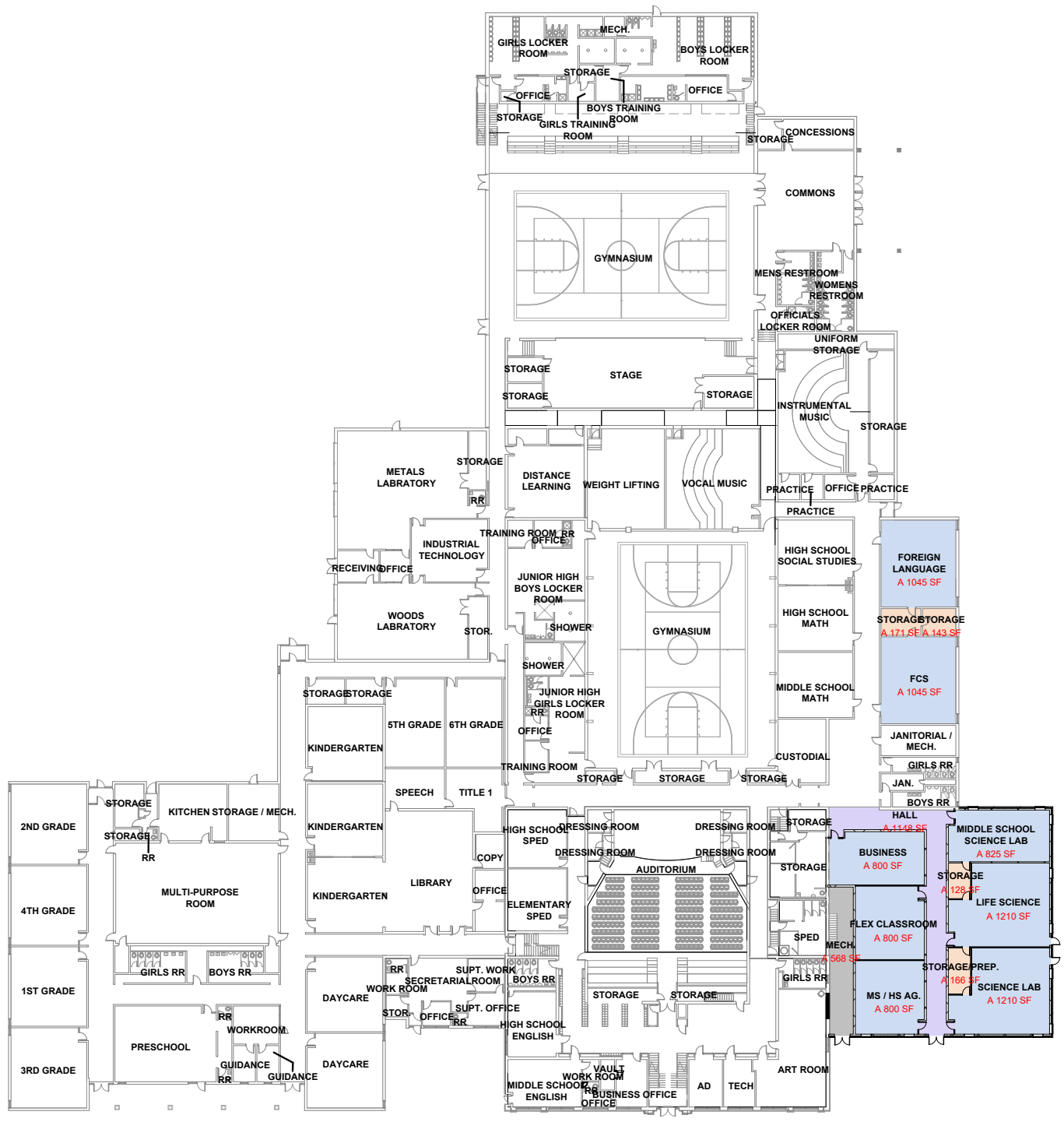
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

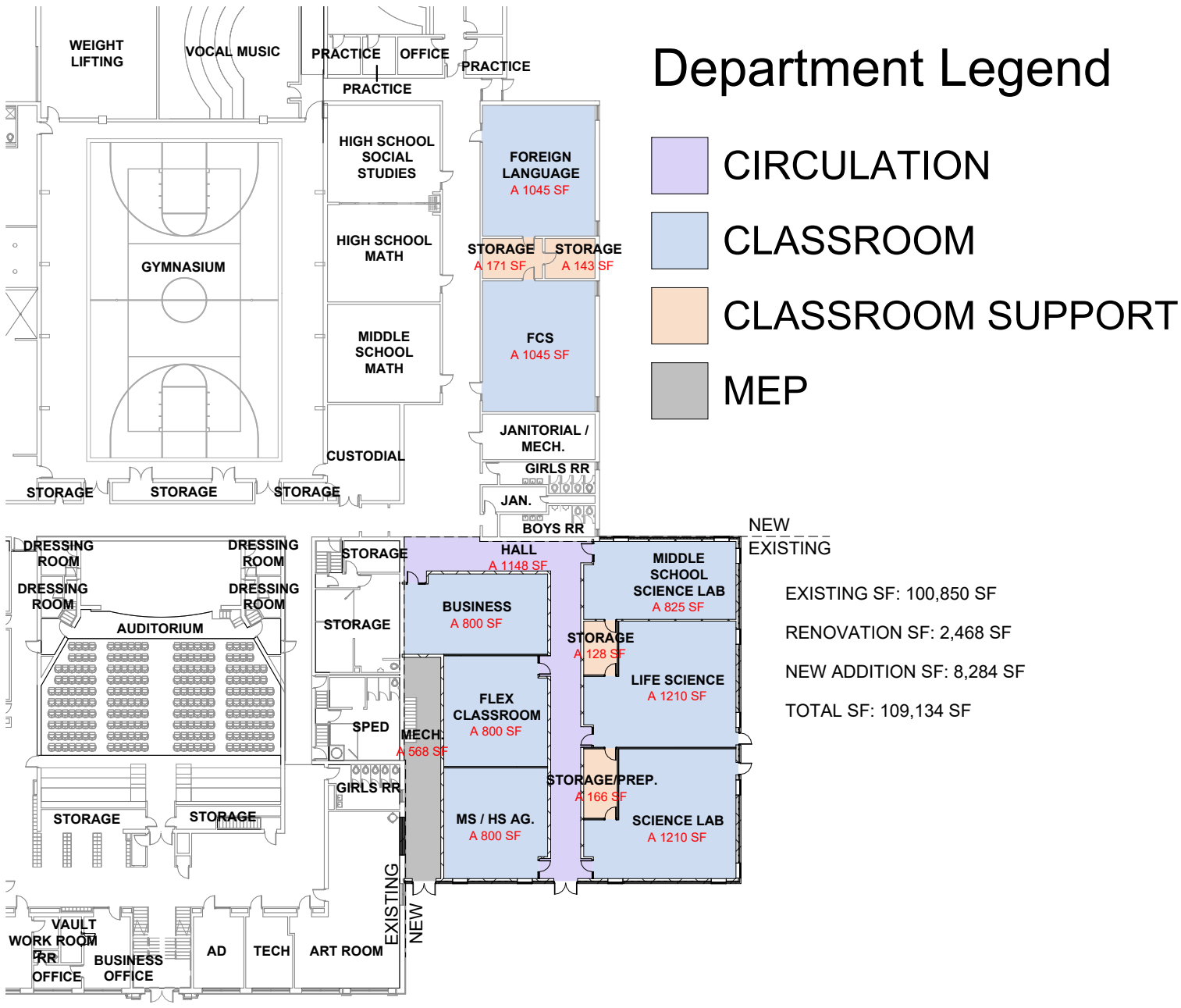
CAMBRIDGE PUBILIC SCHOOLS
OPTION A

CAMBRIDGE PUBLIC SCHOOLS



N 1 P-1 **FLOOR PLAN - FIRST**

SCALE: 1" = 60'-0"



Department Legend

- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- MEP

NEW
EXISTING

EXISTING SF: 100,850 SF

RENOVATION SF: 2,468 SF

NEW ADDITION SF: 8,284 SF

TOTAL SF: 109,134 SF

N 2 P-1 **FLOOR PLAN - FIRST ENLARGED**

SCALE: 1" = 40'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION B

CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 2,468 SF

NEW ADDITION SF: 8,284 SF

TOTAL SF: 109,134 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION B

CAMBRIDGE PUBLIC SCHOOLS

Department Legend

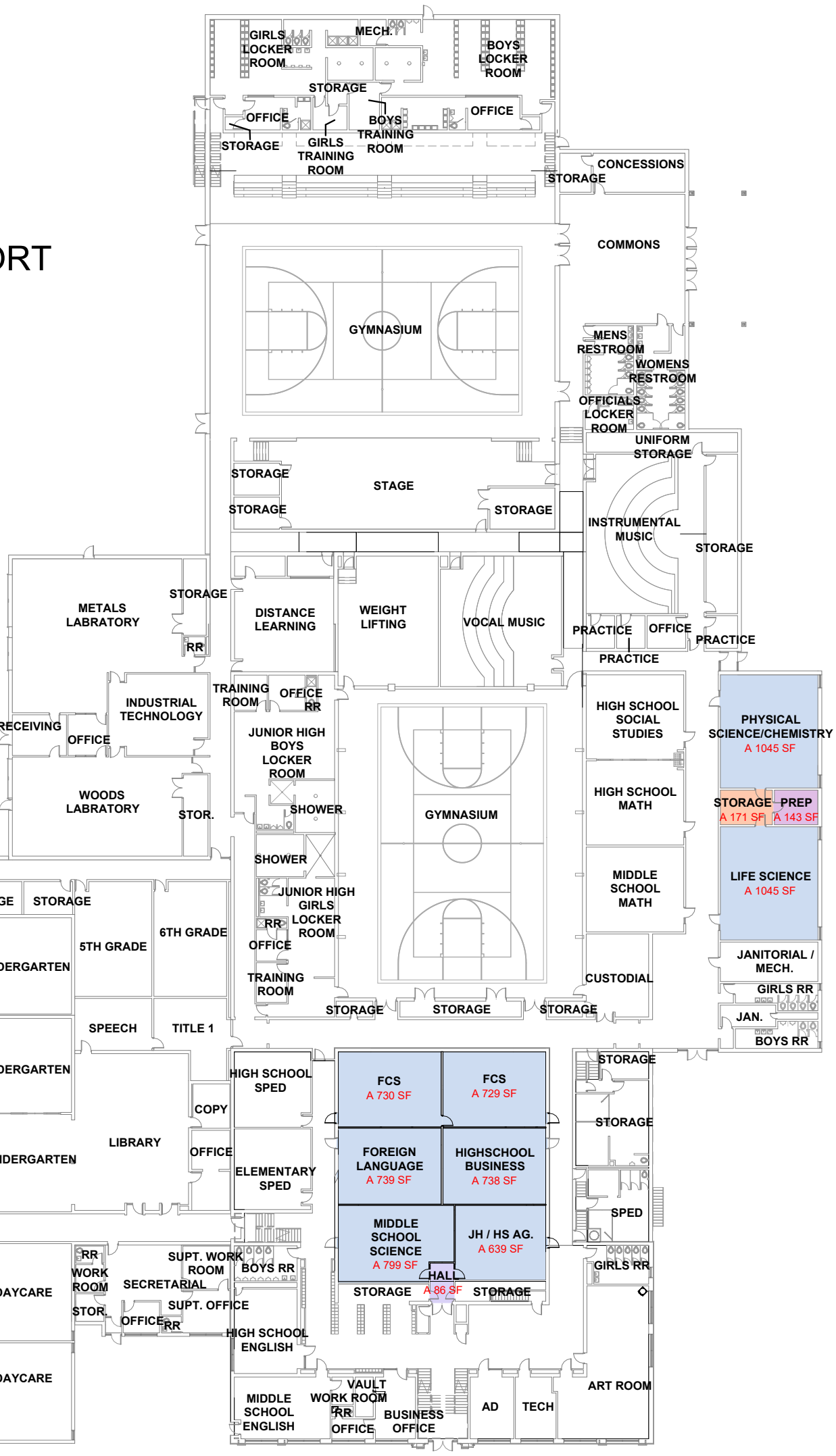
- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- STORAGE

EXISTING SF: 100,850 SF

RENOVATION SF: 6,903 SF

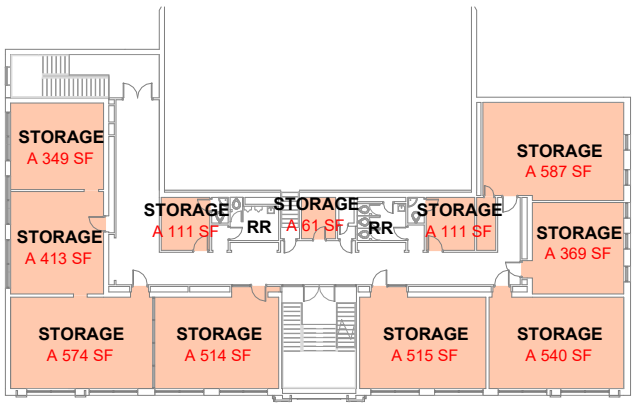
NEW ADDITION SF: 0 SF

TOTAL SF: 100,850 SF



1 P-1 **FLOOR PLAN - FIRST**

SCALE: 1" = 40'-0"



Department Legend

- STORAGE

2 P-1 **FLOOR PLAN - SECOND**

SCALE: 1" = 40'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS OPTION C

CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 6,903 SF

NEW ADDITION SF: 0 SF

TOTAL SF: 100,850 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION C

CAMBRIDGE PUBLIC SCHOOLS

Department Legend

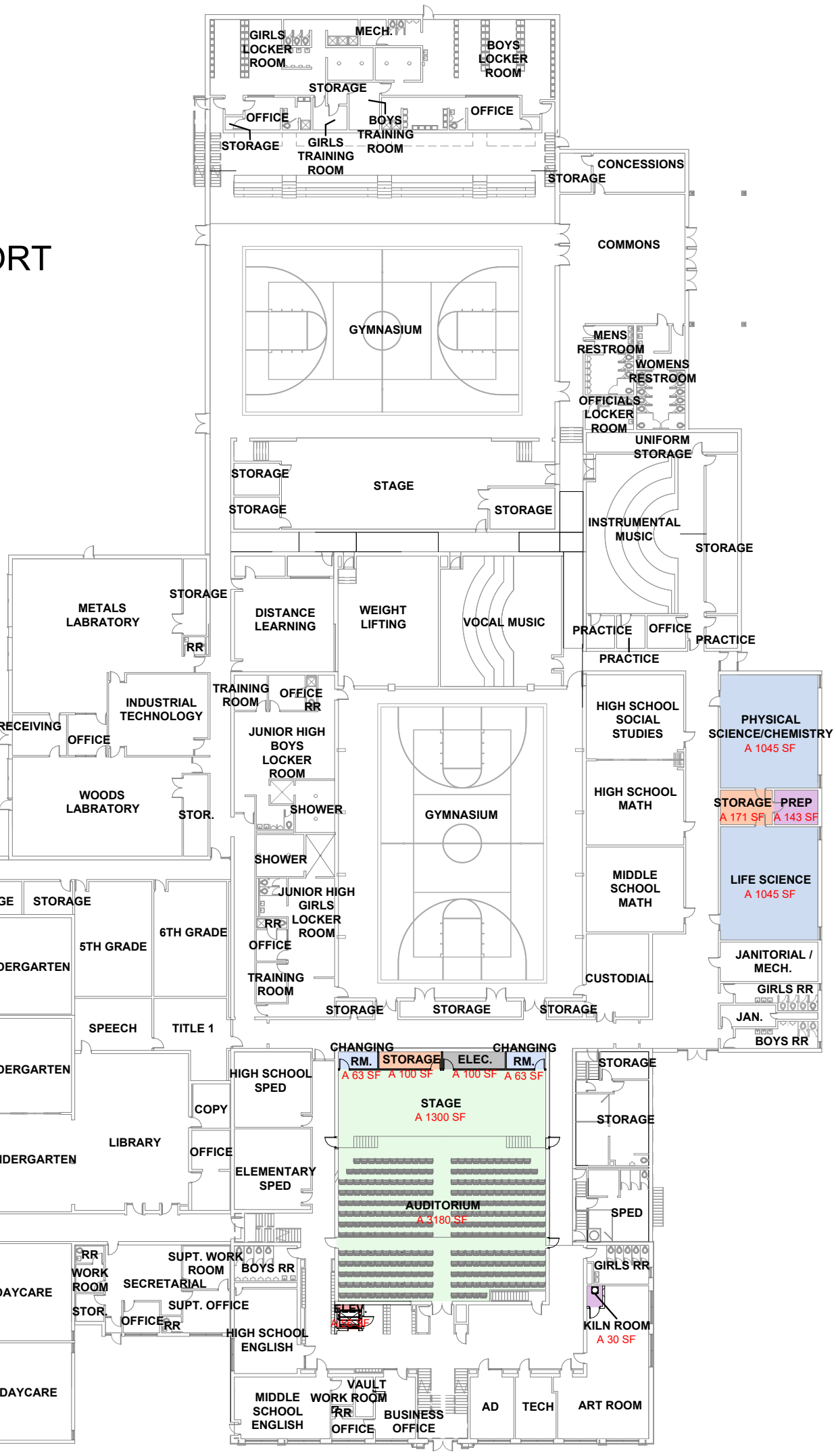
- AUDITORIUM
- CLASSROOM
- CLASSROOM SUPPORT
- ELEVATOR
- MEP
- STAGE SUPPORT
- STORAGE

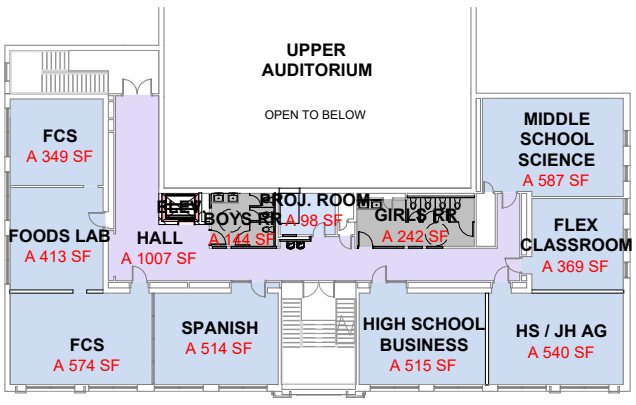
EXISTING SF: 100,850 SF

RENOVATION SF: 12,853 SF

NEW ADDITION SF: 0 SF

TOTAL SF: 100,850 SF





Department Legend

- CIRCULATION
- CLASSROOM
- ELEVATOR
- STAGE SUPPORT
- TOILET

N 1 P-1 **FLOOR PLAN - FIRST**
SCALE: 1" = 40'-0"

N 2 P-1 **FLOOR PLAN - SECOND**
SCALE: 1" = 40'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION D

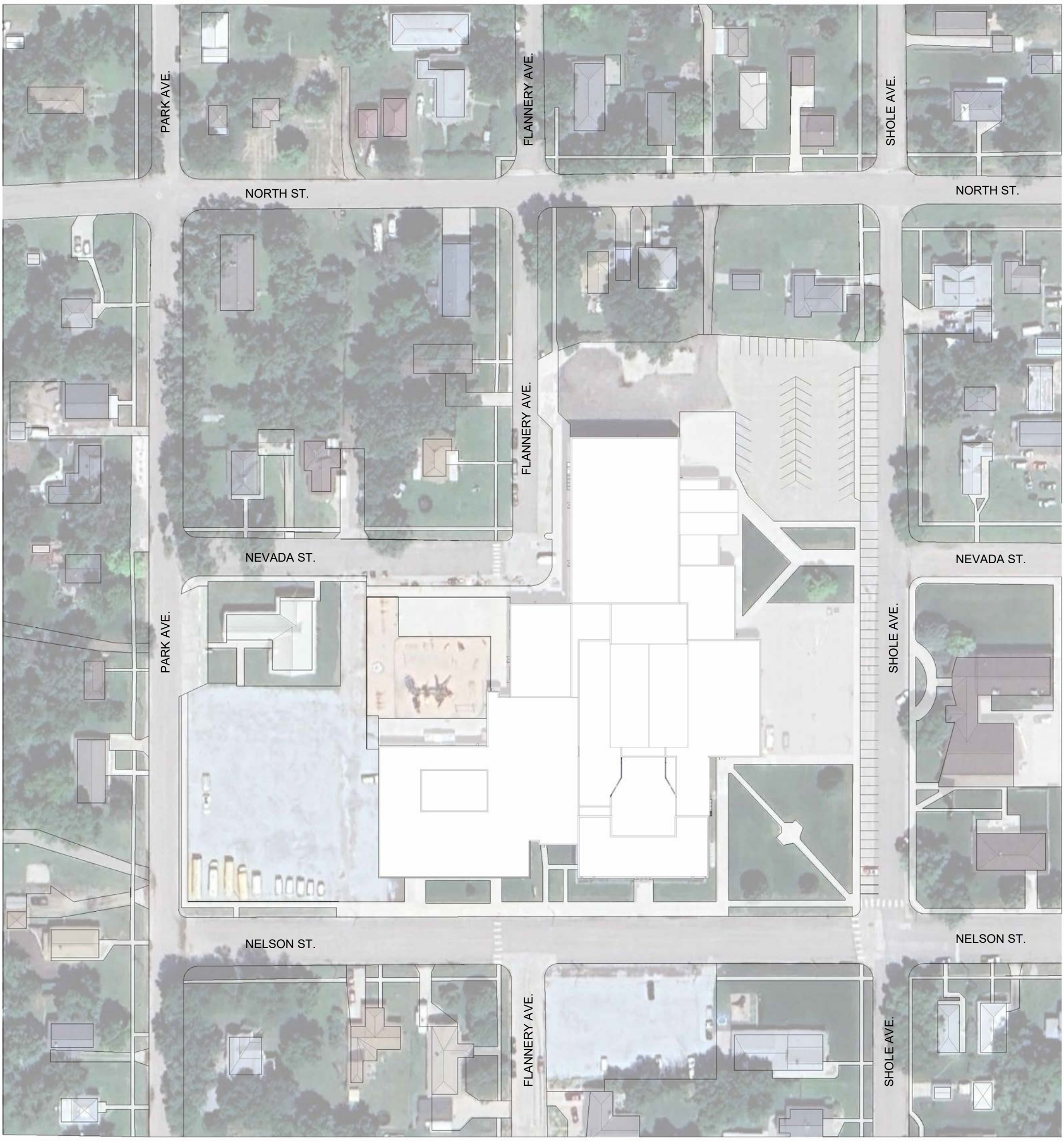
CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 12,853 SF

NEW ADDITION SF: 0 SF

TOTAL SF: 100,850 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

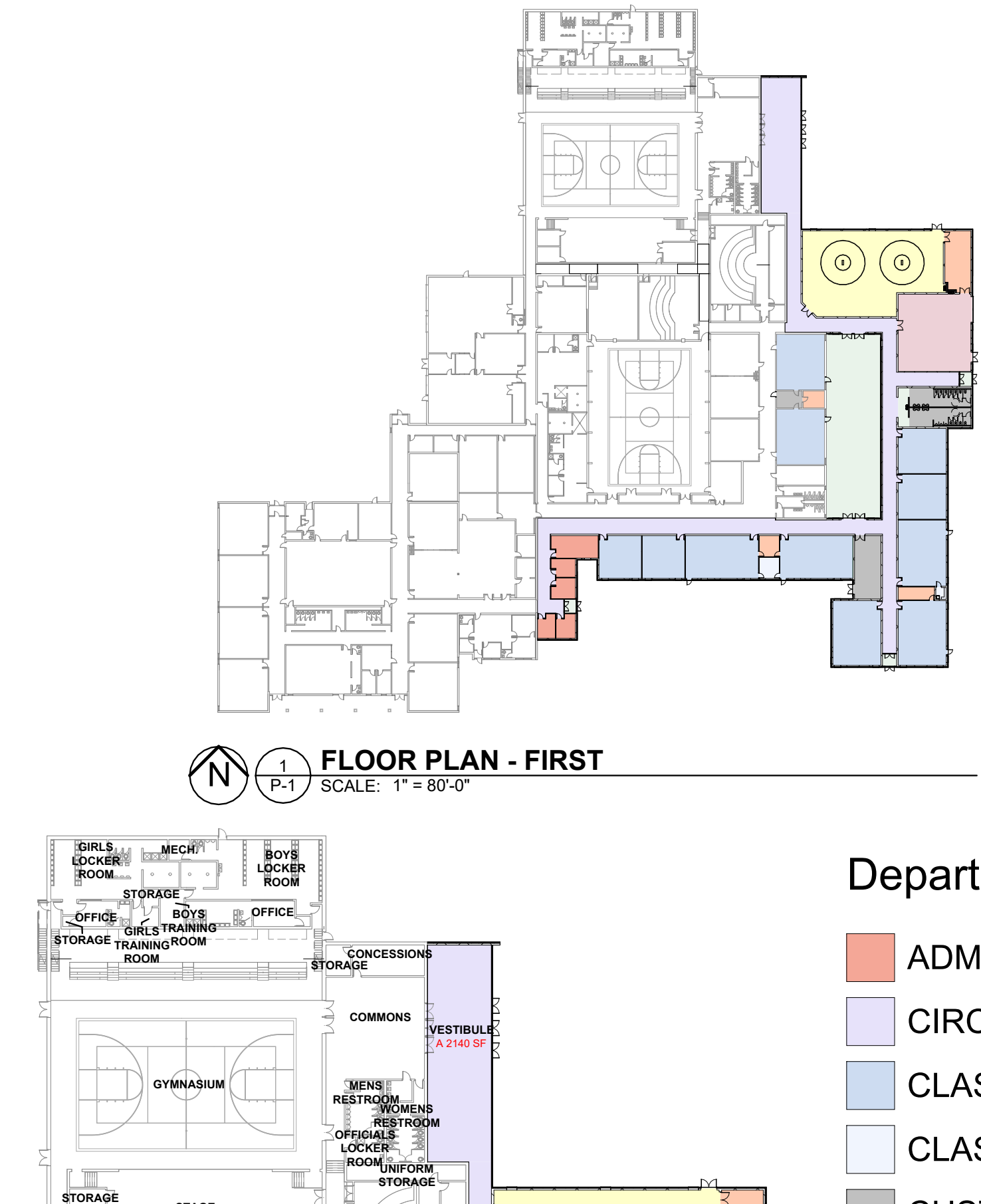
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION D

CAMBRIDGE PUBLIC SCHOOLS



FLOOR PLAN - FIRST

1 / P-1

SCALE: 1" = 80'-0"

Department Legend

- ADMINISTRATION
- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- CUSTODIAL
- MEP
- SPECIAL
- STORAGE
- TOILET
- WEIGHT ROOM
- WRESTLING

EXISTING SF: 100,850 SF

RENOVATION SF: 2448 SF

NEW ADDITION SF: 29,883 SF

TOTAL SF: 130,733 SF

FLOOR PLAN - FIRST ENLARGED

2 / P-1

SCALE: 1" = 50'-0"

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION E

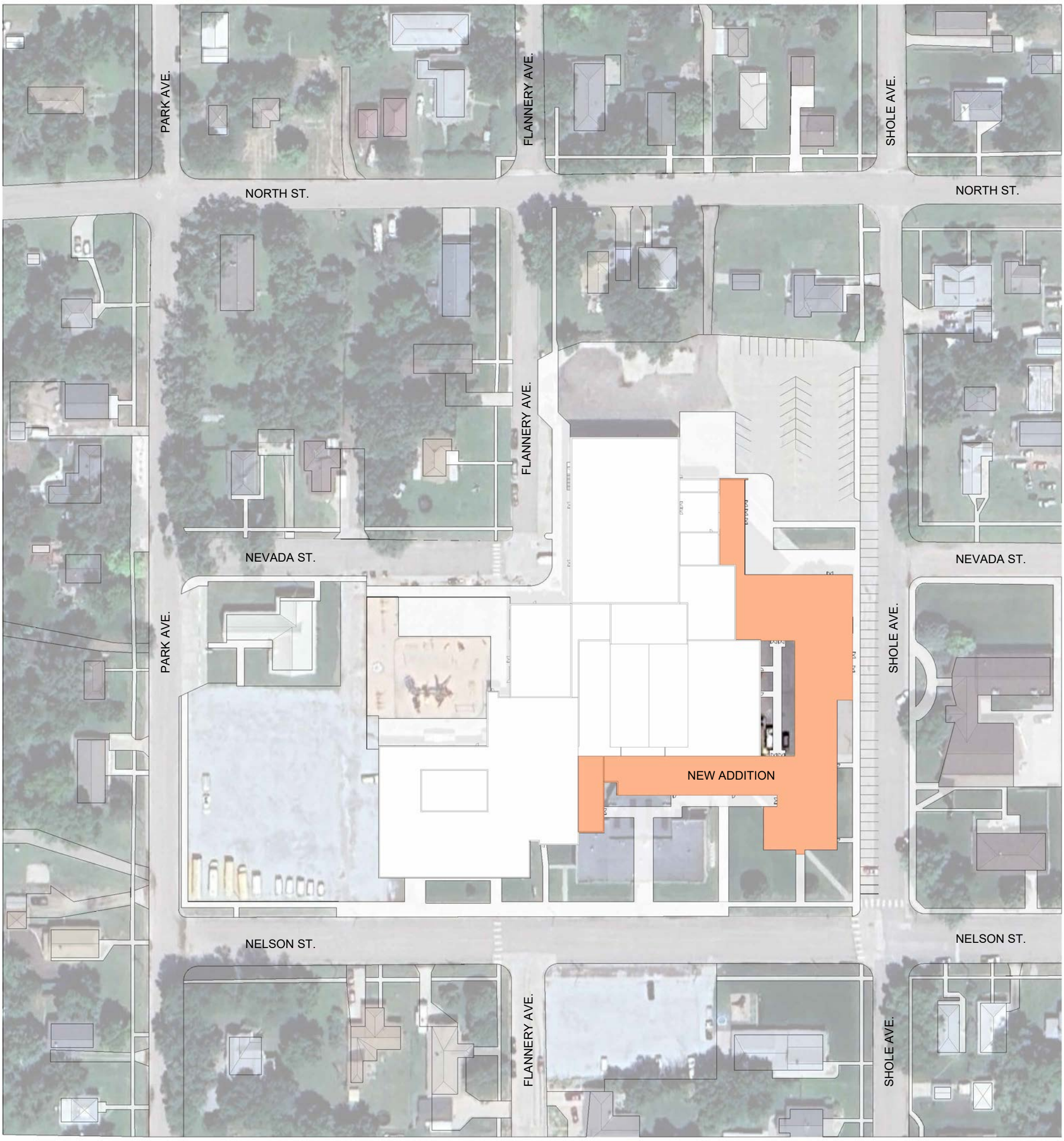
CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 2448 SF

NEW ADDITION SF: 29,883 SF

TOTAL SF: 130,733 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

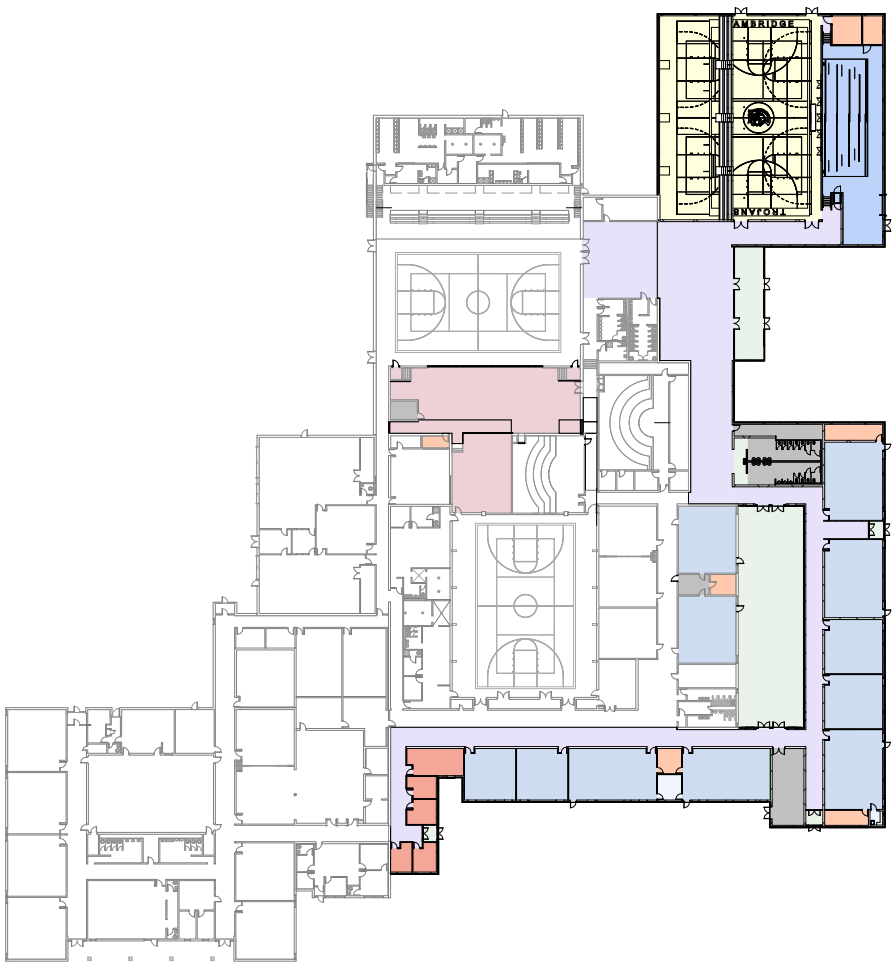
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION E

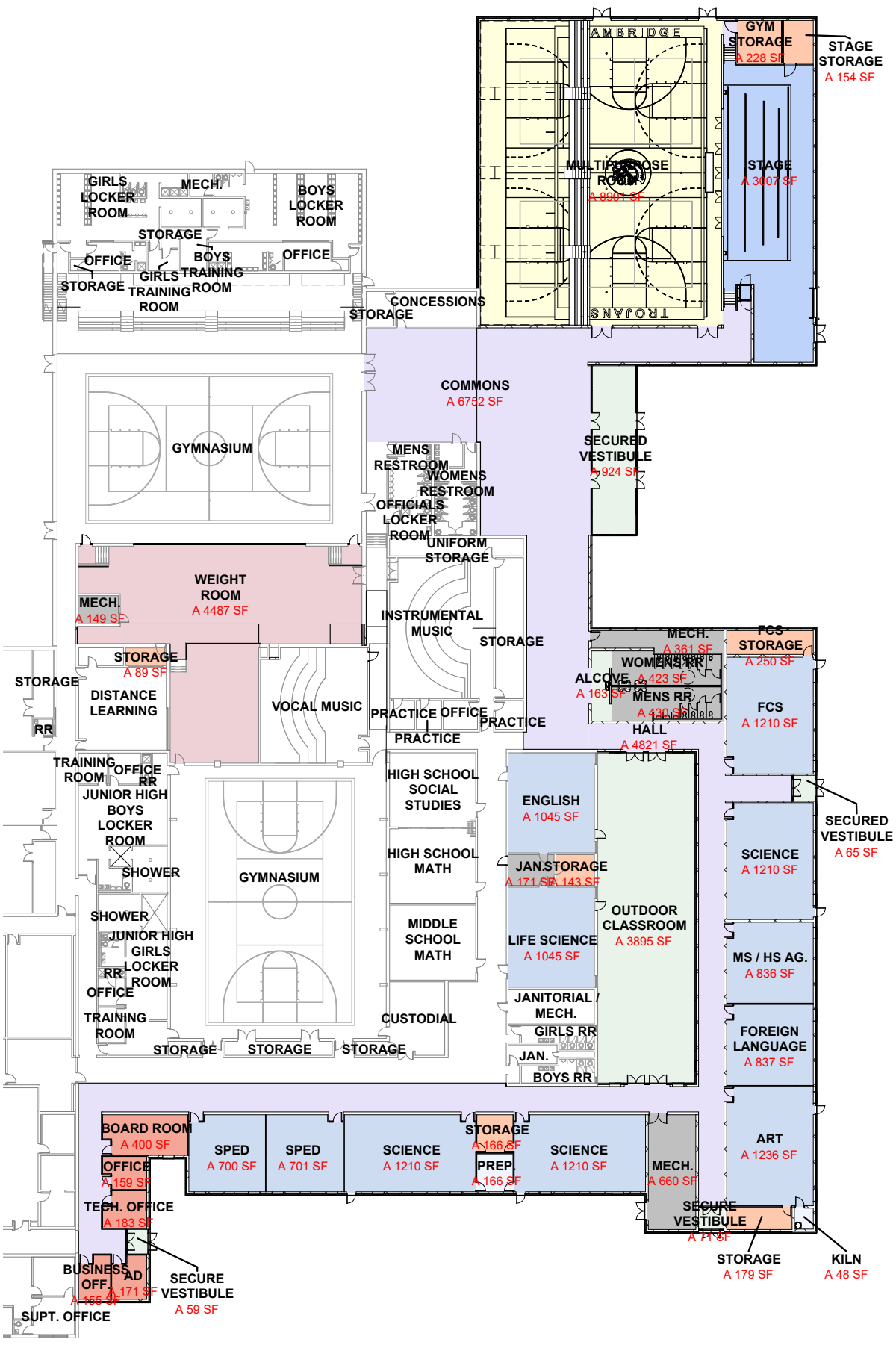
CAMBRIDGE PUBLIC SCHOOLS



FLOOR PLAN - FIRST

1 / P-1

SCALE: 1" = 100'-0"



Department Legend

- ADMINISTRATION
- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- CUSTODIAL
- MEP
- MULTIPURPOSE ROOM
- SPECIAL
- STAGE
- STORAGE
- TOILET
- WEIGHT ROOM

EXISTING SF: 100,850 SF

RENOVATION SF: 8720 SF

NEW ADDITION SF: 39,188 SF

TOTAL SF: 140,038 SF

Copyright © 2024
www.WilkinsADP.com

FLOOR PLAN - FIRST ENLARGED

2 / P-1

SCALE: 1" = 50'-0"

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION F

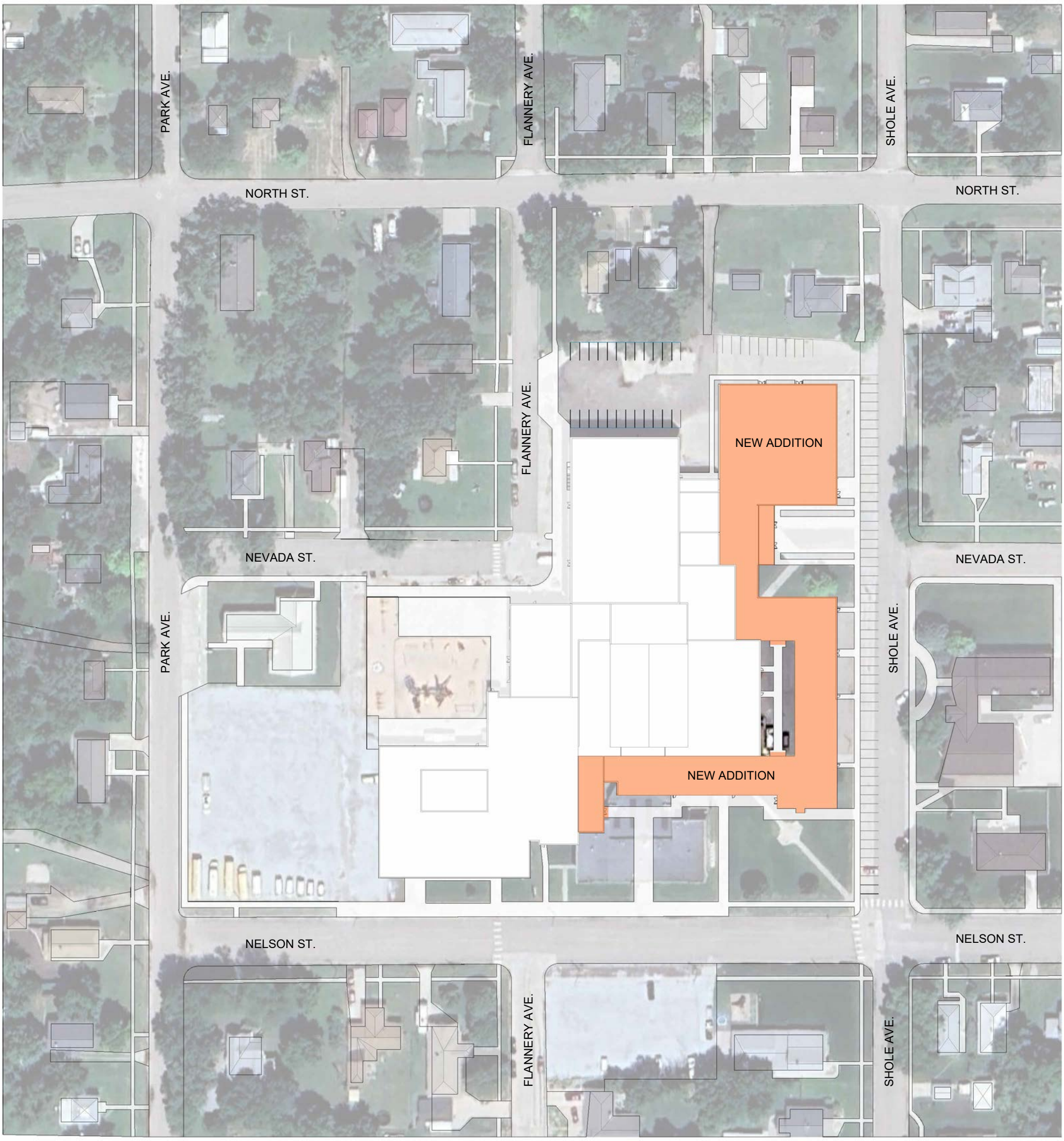
CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 8720 SF

NEW ADDITION SF: 39,188 SF

TOTAL SF: 140,038 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

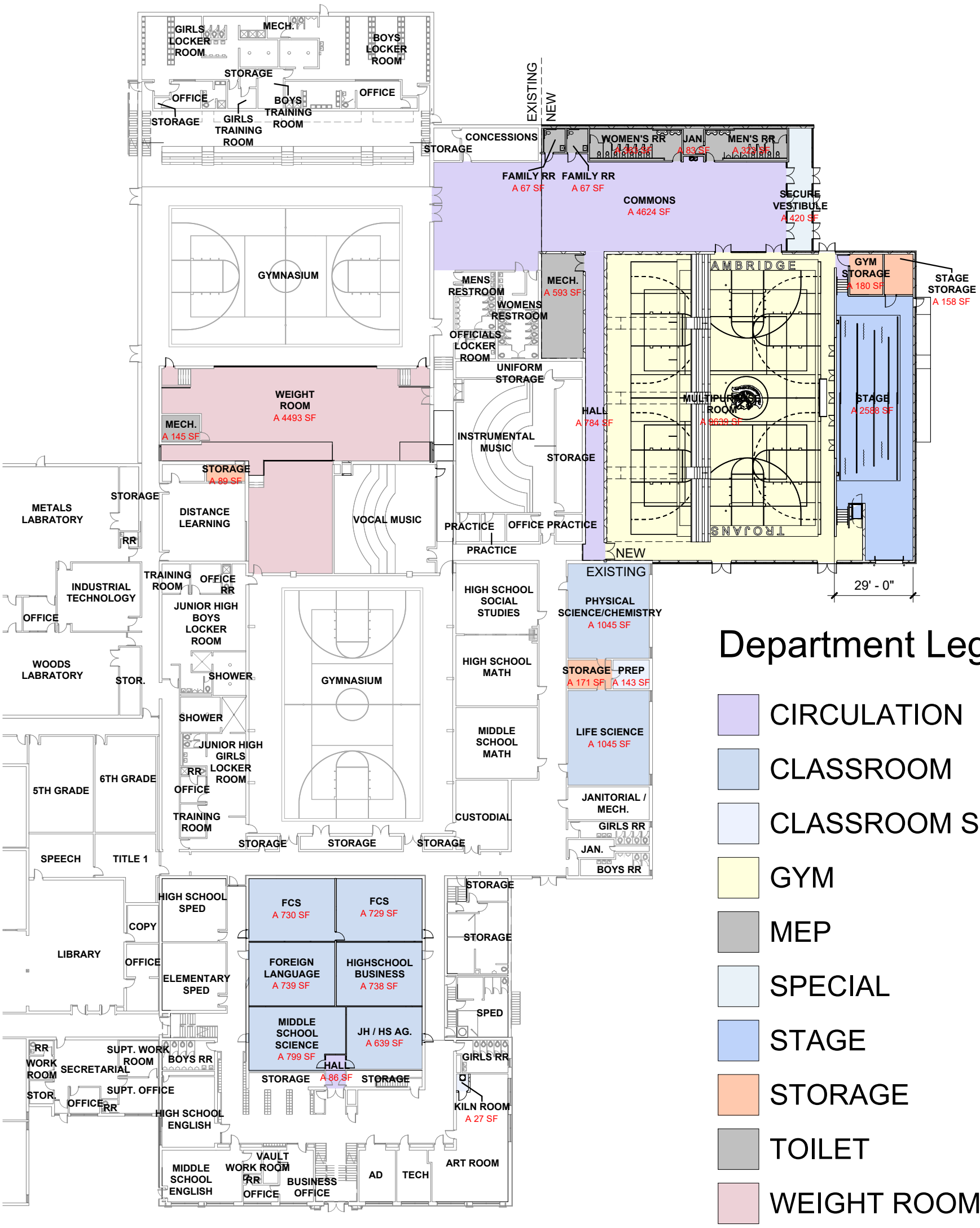
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION F

CAMBRIDGE PUBLIC SCHOOLS



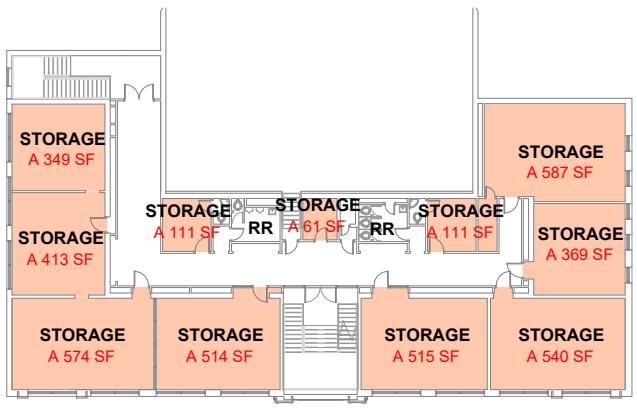
Department Legend

- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- GYM
- MEP
- SPECIAL
- STAGE
- STORAGE
- TOILET
- WEIGHT ROOM

N 1 P-1

FLOOR PLAN - FIRST

SCALE: 1" = 40'-0"



N 2 P-1

FLOOR PLAN - SECOND

SCALE: 1" = 40'-0"

EXISTING SF: 100,850 SF

RENOVATION SF: 11,484 SF

NEW ADDITION SF: 19,323 SF

TOTAL SF: 120,173 SF

Department Legend

- STORAGE

Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION G

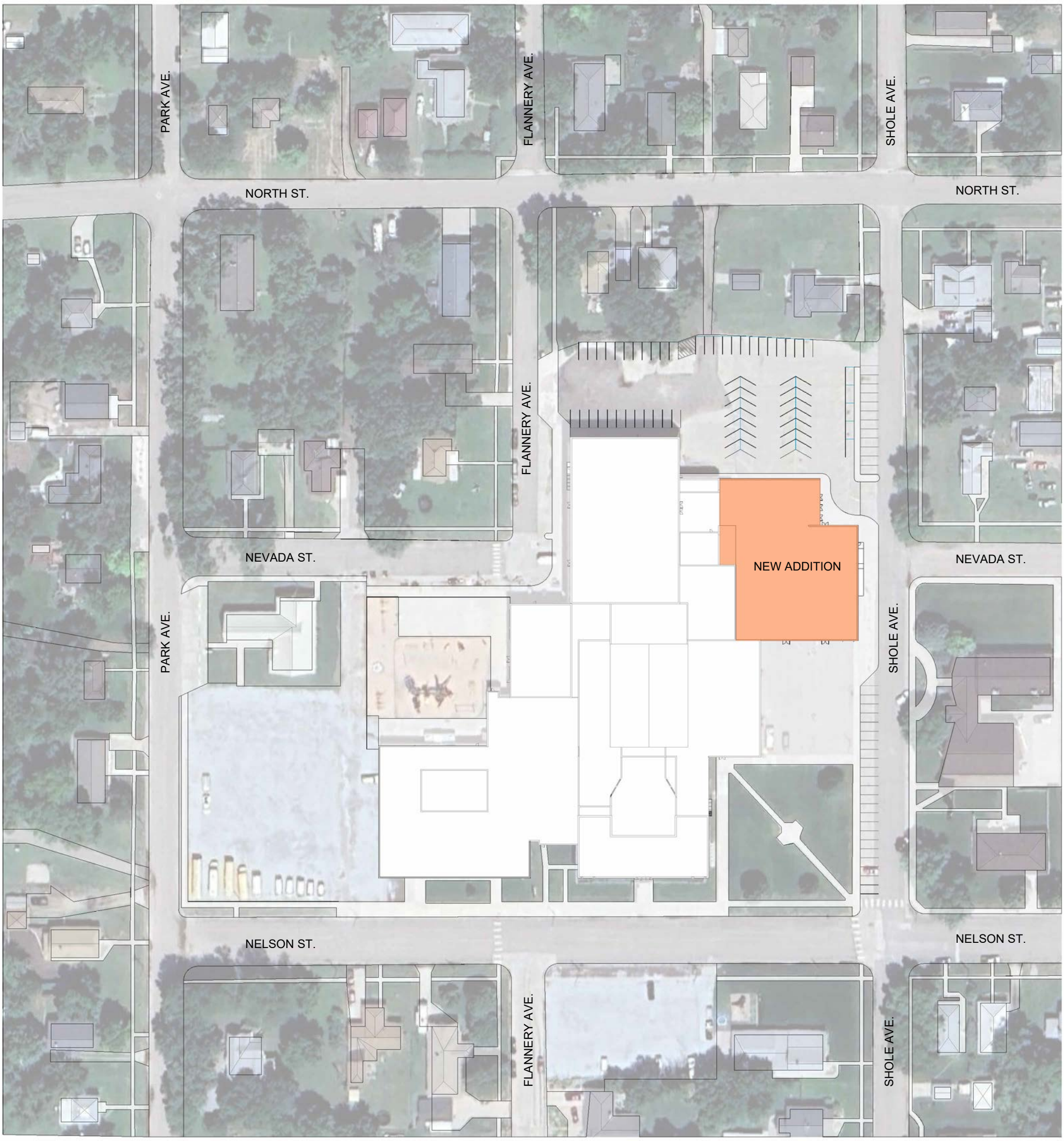
CAMBRIDGE PUBLIC SCHOOLS

EXISTING SF: 100,850 SF

RENOVATION SF: 11,484 SF

NEW ADDITION SF: 19,323 SF

TOTAL SF: 120,173 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

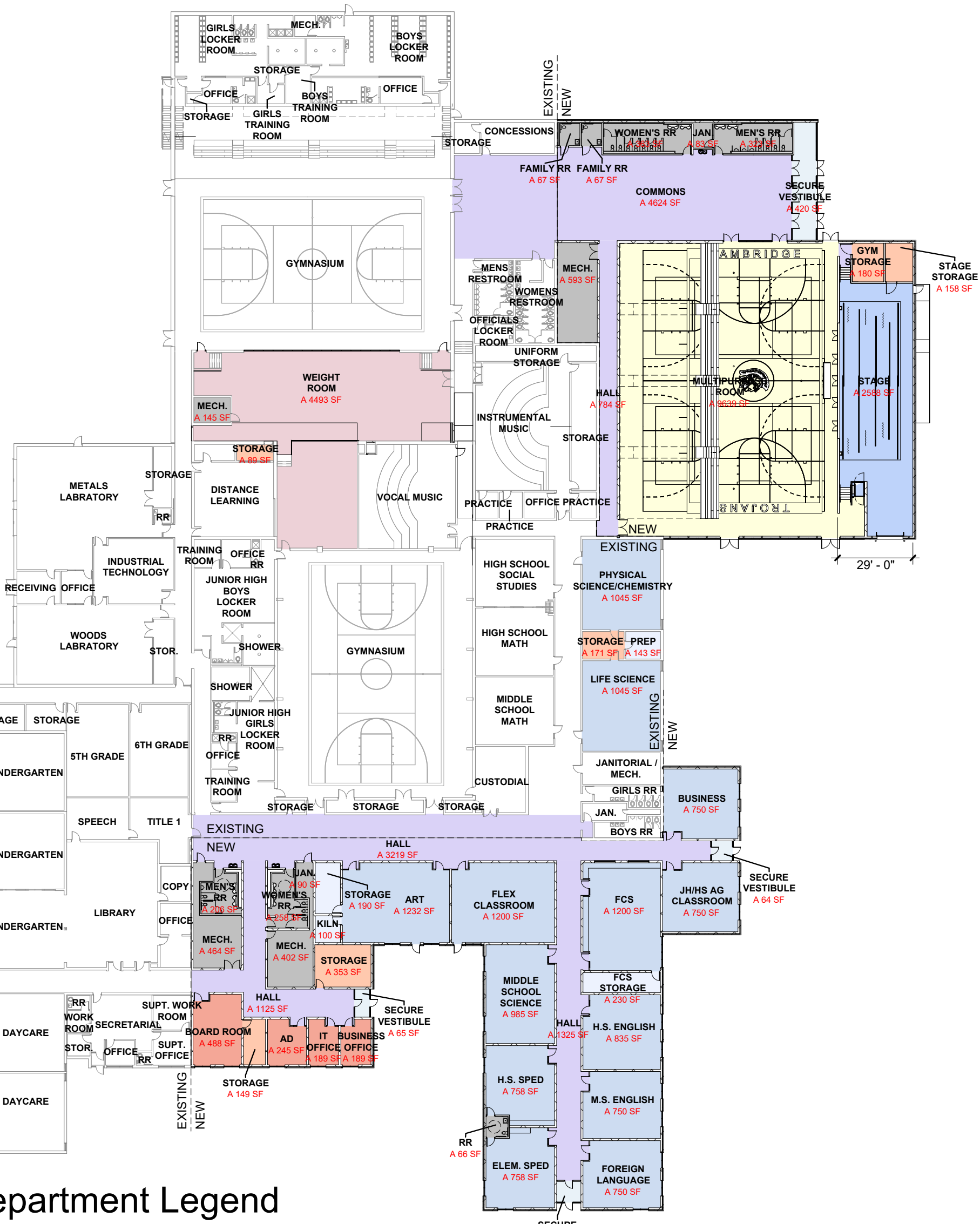
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION G

CAMBRIDGE PUBLIC SCHOOLS



Department Legend

- ADMINISTRATION
- CIRCULATION
- CLASSROOM
- CLASSROOM SUPPORT
- CUSTODIAL
- GYM
- MEP
- SPECIAL
- STAGE
- STORAGE
- TOILET
- WEIGHT ROOM

EXISTING SF: 100,850 SF

DEMOLITION SF: 31,728 SF

RENOVATION SF: 9,916 SF

NEW ADDITION SF: 39,280 SF

TOTAL SF: 108,502 SF

Copyright © 2024
www.WilkinsADP.com

N

1
P-1

FLOOR PLAN - FIRST

SCALE: 1" = 40'-0"

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION H

CAMBRIDGE PUBLIC SCHOOLS

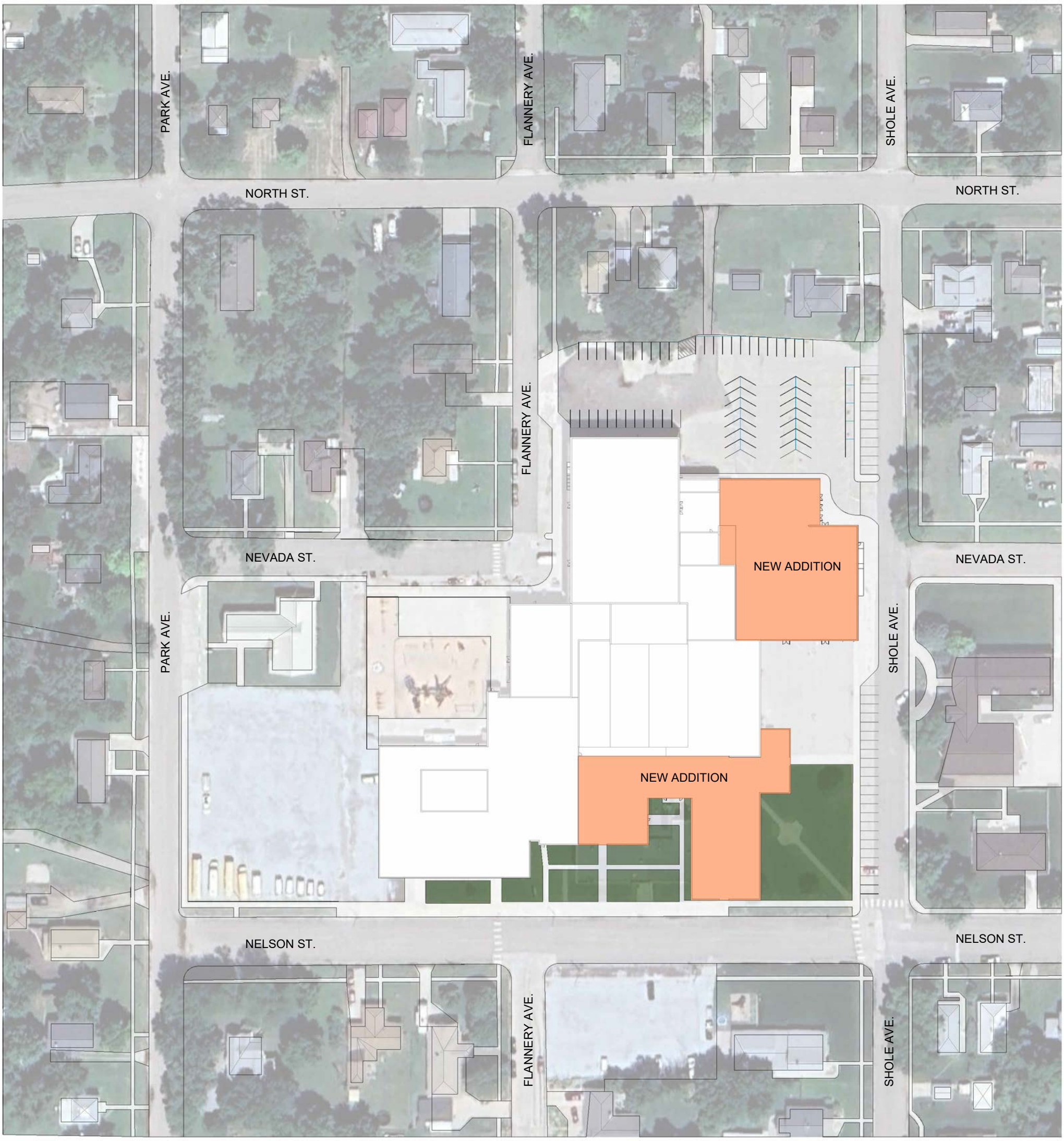
EXISTING SF: 100,850 SF

DEMOLITION SF: 31,728 SF

RENOVATION SF: 9,916 SF

NEW ADDITION SF: 39,280 SF

TOTAL SF: 108,502 SF



N

1
P-4

PRESENTATION SITE PLAN

SCALE: 1" = 100'-0"

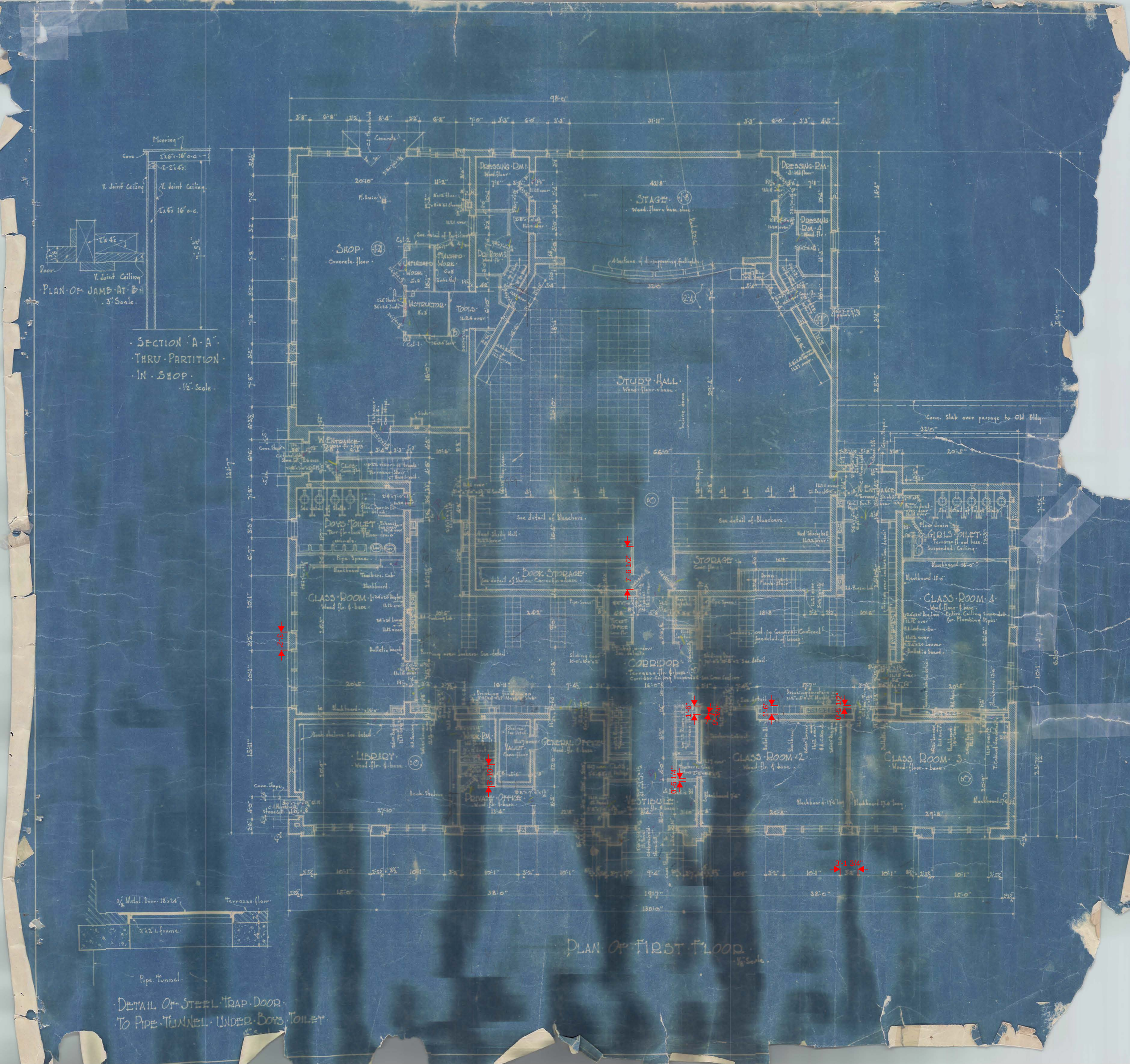
Copyright © 2024
www.WilkinsADP.com

WILKINS
ARCHITECTURE | DESIGN | PLANNING

Project Number: 2415

CAMBRIDGE PUBILIC SCHOOLS
OPTION H

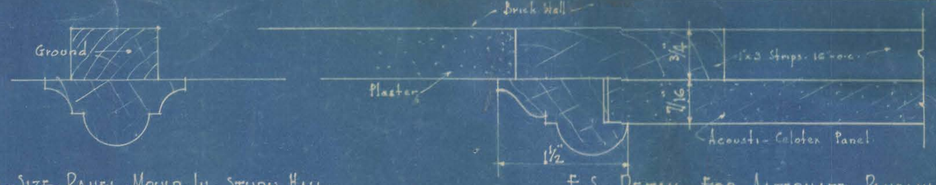
CAMBRIDGE PUBLIC SCHOOLS



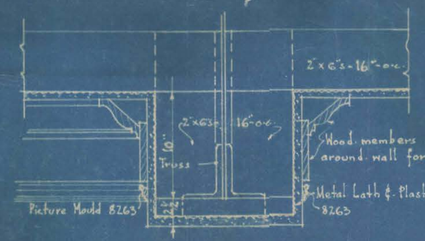
Flooring
Cove
V. Joint Ceiling
Door
PLAN OF JAMB AT B
3" Scale
SECTION A-A THRU PARTITION IN SHOP
1/2" Scale
SHOP
Concrete floor
DRESSING RM 1
DRESSING RM 3
DRESSING RM 4
STAGE
Wood floor + base
UNFINISHED WORK
FINISHED WORK
INSTRUCTOR
TOOLS
STUDY HALL
Wood floor + base
W. ENTRANCE
BOYS TOILET
CLASS ROOM 1
Wood flr. & base
BOOK STORAGE
STORAGE
N. ENTRANCE
GIRLS TOILET
CLASS ROOM 4
CORRIDOR
LIBRARY
Wood flr. & base
GENERAL OFFICE
PRIVATE OFFICE
VESTIBULE
CLASS ROOM 2
CLASS ROOM 3
Wood floor + base
Conc. Slab over passage to Old Bldg.
See detail of Bleachers
Pipe Space
Bulletin board
Blackboard
Terrazzo floor
2"x2" L frame
Pipe Tunnel
DETAIL OF STEEL TRAP DOOR TO PIPE TUNNEL UNDER BOYS TOILET
PLAN OF FIRST FLOOR
1/8" Scale

PLATFORM +4'-0"
Wood floor + base.
8"x12" flue.
MUSIC ROOM
Wood floor + base.
#3-0
ALTERNATE PLAN OF ROOM OVER SHOP
1/8" Scale.
1⅛" Nosing
2"x12"s 16" o.c.
DETAIL OF PLATFORM IN MUSIC ROOM
3/4" Scale.
Stone Coping.
High Point roof #3-2
#1-4 H.P. of roof Composition Roof.
Conc. Cap
L.P. of roof #11-10
Roof Drain 4" outlet
Vitrified tile Coping
#12-9 L. Point of roof.
Composition Roof.
Wood Cornice + Beams. See detail.
UPPER STAGE
Bells. Girder. Beams over.
#11-4 Stone Coping. H.P. Roof. Composition roof.
#10-10 L.P. roof.
Drain 3" outlet
UPPER STUDY HALL
Steel Ceiling lights. See detail.
Trusses over
WEST STAIR HALL
LANDING
Terrazzo floor
Terrazzo Stairs
COOKING LABORATORY
Wood floor + base.
#13-0
Sink
Vent. Toilet.
Vent. Closet Rm.
Cabinet. See detail.
STORAGE
Shelves See detail
Furring over Lockers. See detail.
DINING ROOM
Wood floor + base.
STORAGE 2
Wd. floor + base
Teachers Cab.
CLASS ROOM 5
Wood floor + base.
Blackboard 12'-0"
CLASS ROOM 6
Wood floor + base.
Blackboard 9'0"
Cabinet. See detail
PRINCIPAL
Wood floor + base.
PROJECTION BOOTH
Wood floor + base.
CORRIDOR
Terrazzo floor + base. #3-0
Steel Ceiling lights. See detail.
Master Clock over
EDITORS ROOM
Conc. floor + base.
#7-0
30x30 Scuttle over
STAIR HALL
Stone Coping
Composition roof
4" C.I. Gutter
3" C.I. D.S.
Blackboard 12'-0"
Vent. & Toilet
PHYSICS & GENERAL SCIENCE LABORATORY
Wood floor + base.
Teachers Cabinet
Cabinet. See detail.
Sink
Steel Ceiling lights. See detail.
STORE ROOM
Wood floor + base.
Issue No. 1. 2-8-20.
PLAN OF SECOND

2613

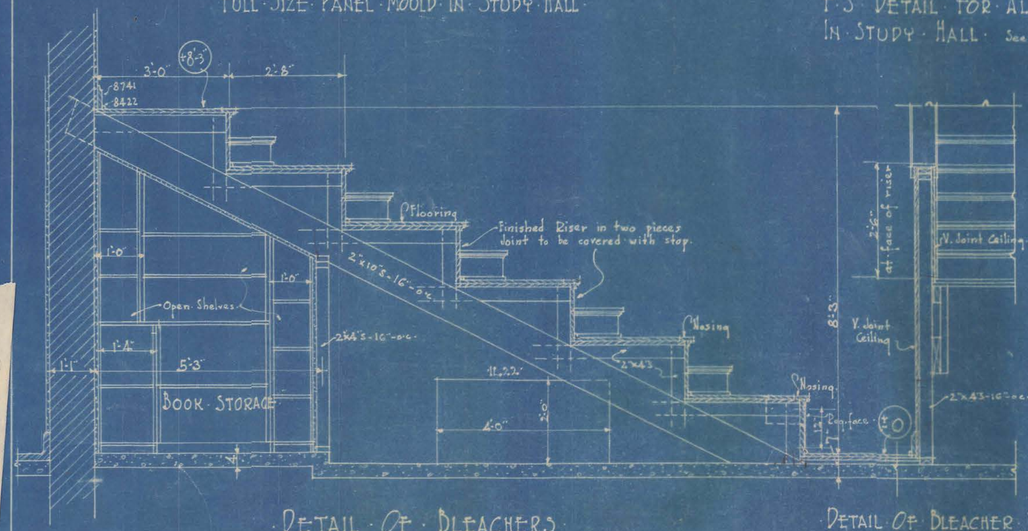


FULL SIZE PANEL MOULD IN STUDY HALL

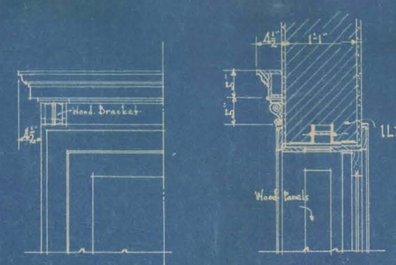


F.S. DETAIL FOR ALTERNATE PANELING IN STUDY HALL. See Specifications.

DETAIL OF BEAMS IN STUDY HALL
1½" Scale

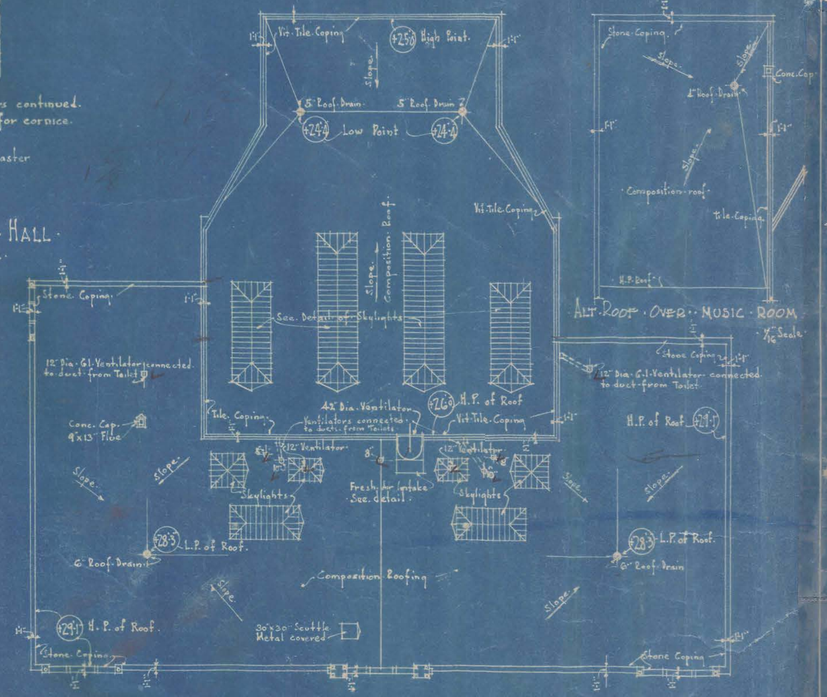


DETAIL OF BLEACHERS
½" Scale.

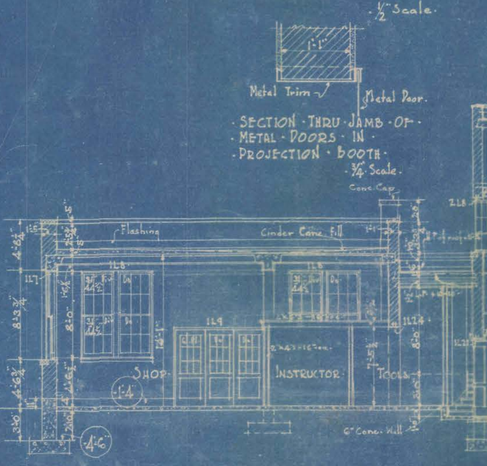


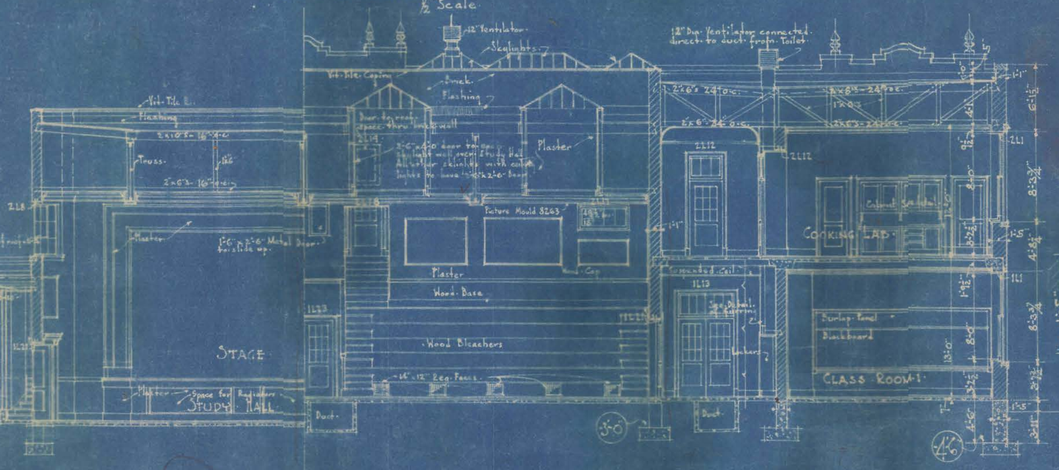
½ ELEVATION SECTION

DETAIL OF DOOR HEADS IN STUDY HALL
¾" Scale.

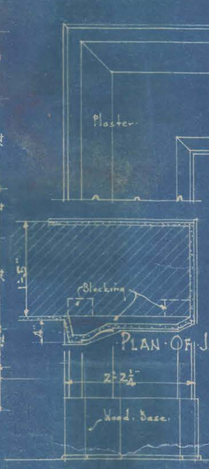


ALT. ROOF OVER MUSIC ROOM
½" Scale.

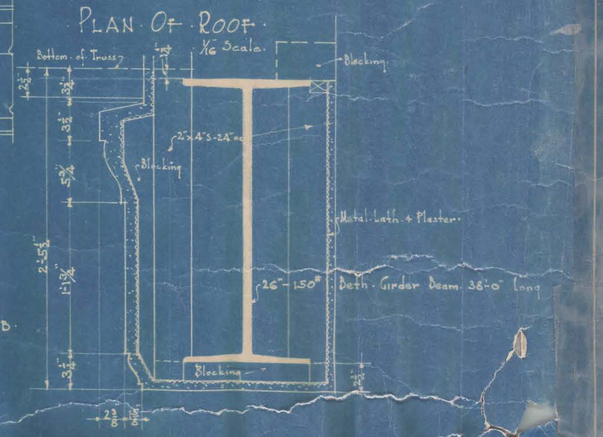


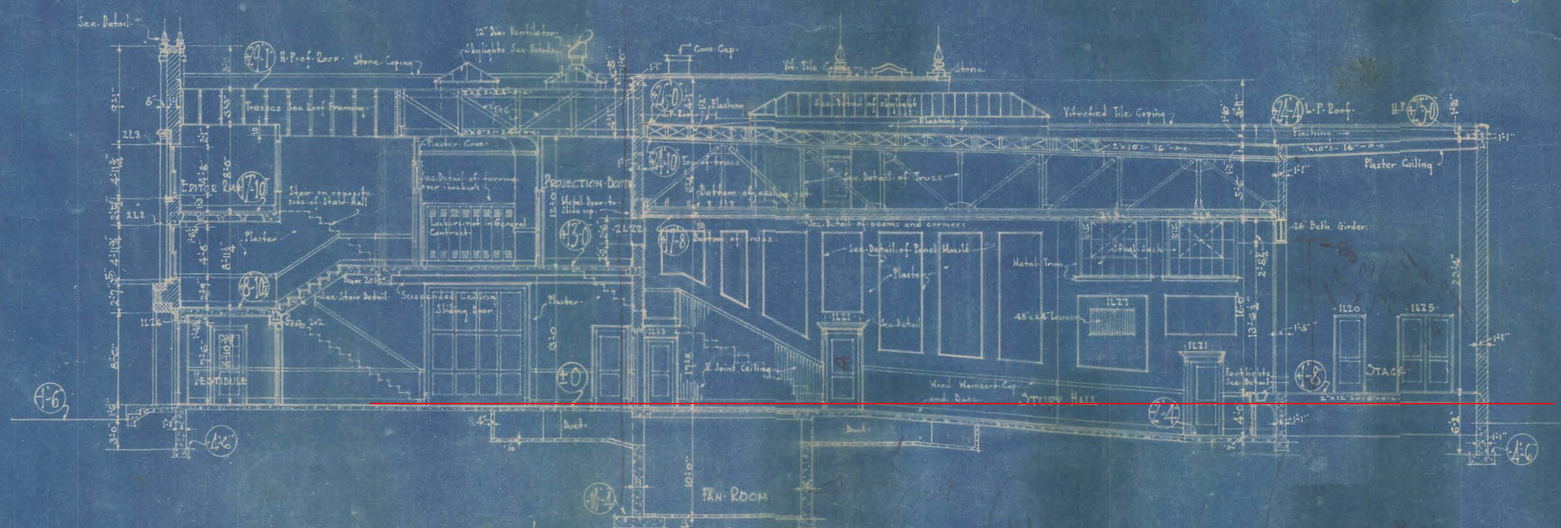


½ LOOKING NORTH ½ LOOKING SOUTH
CROSS SECTION
⅛" Scale.

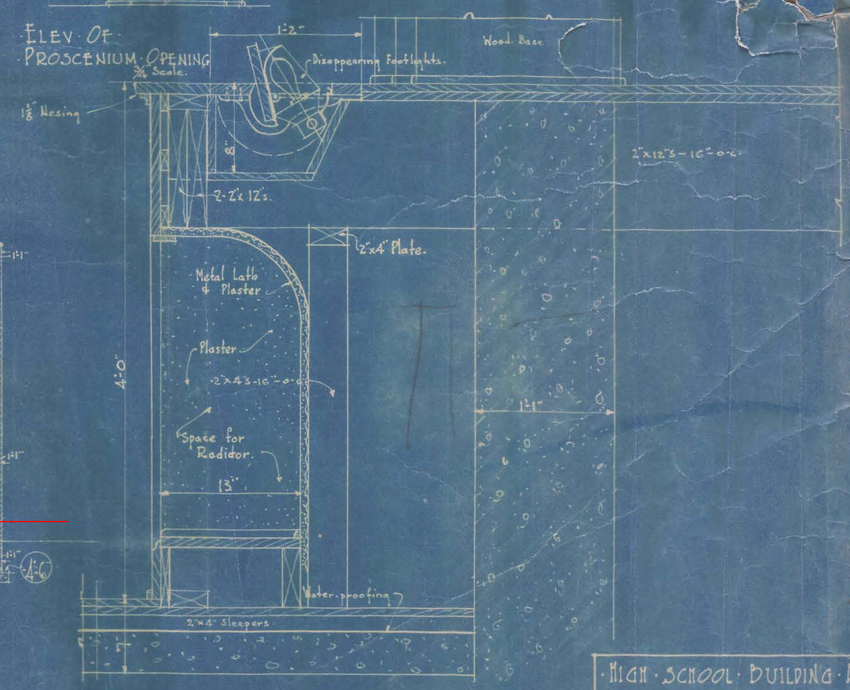


PLAN OF ROOF
⅛" Scale.





LONGITUDINAL SECTION
⅛" Scale.



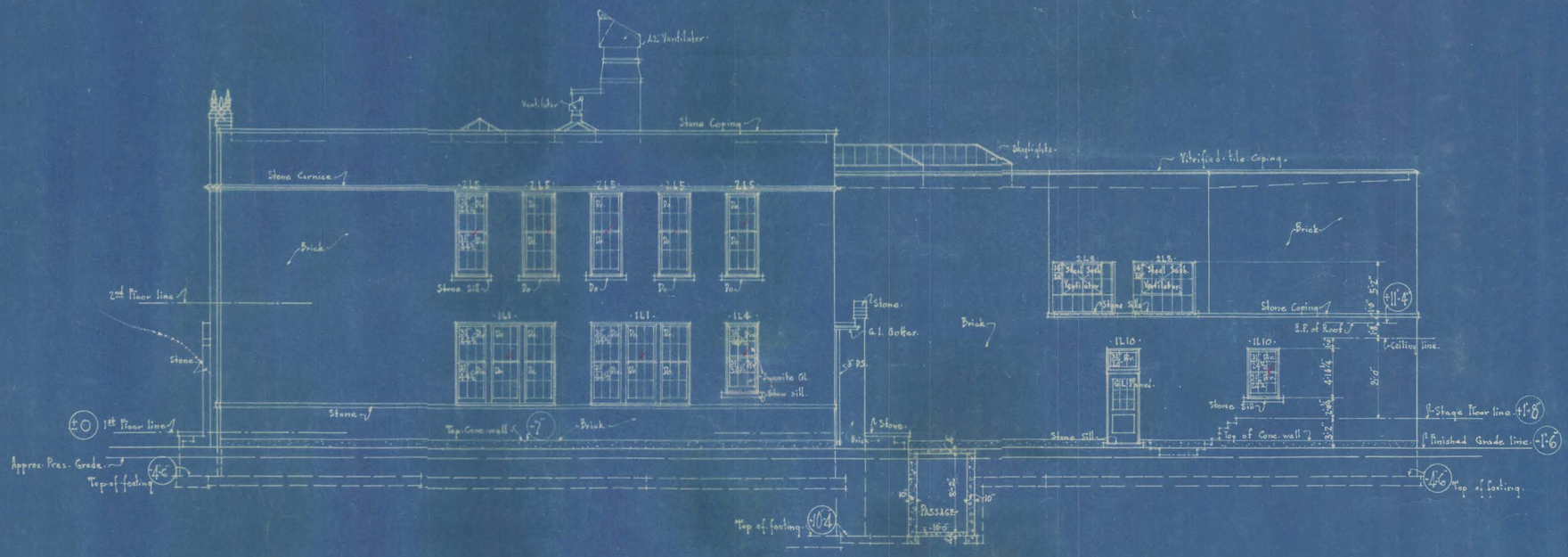
ELEV. OF PROSCENIUM OPENING
¾" Scale.

SECTION THRU STAGE
1½" Scale.

HIGH SCHOOL BUILDING AT
CAMBRIDGE NEBRASKA
DEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
405-10 Grain Exchange Bldg. Sioux City, Iowa

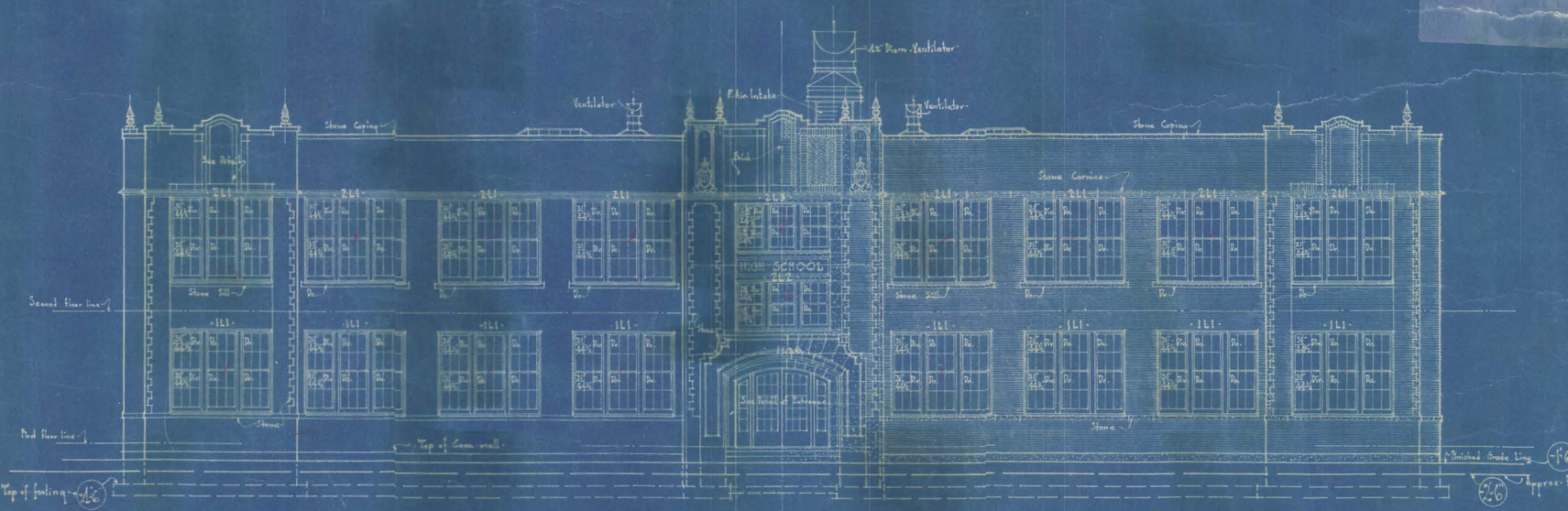
Issue No. 1. 2-8-26.

2613-9



EAST ELEVATION

1/8 Scale



SOUTH ELEVATION

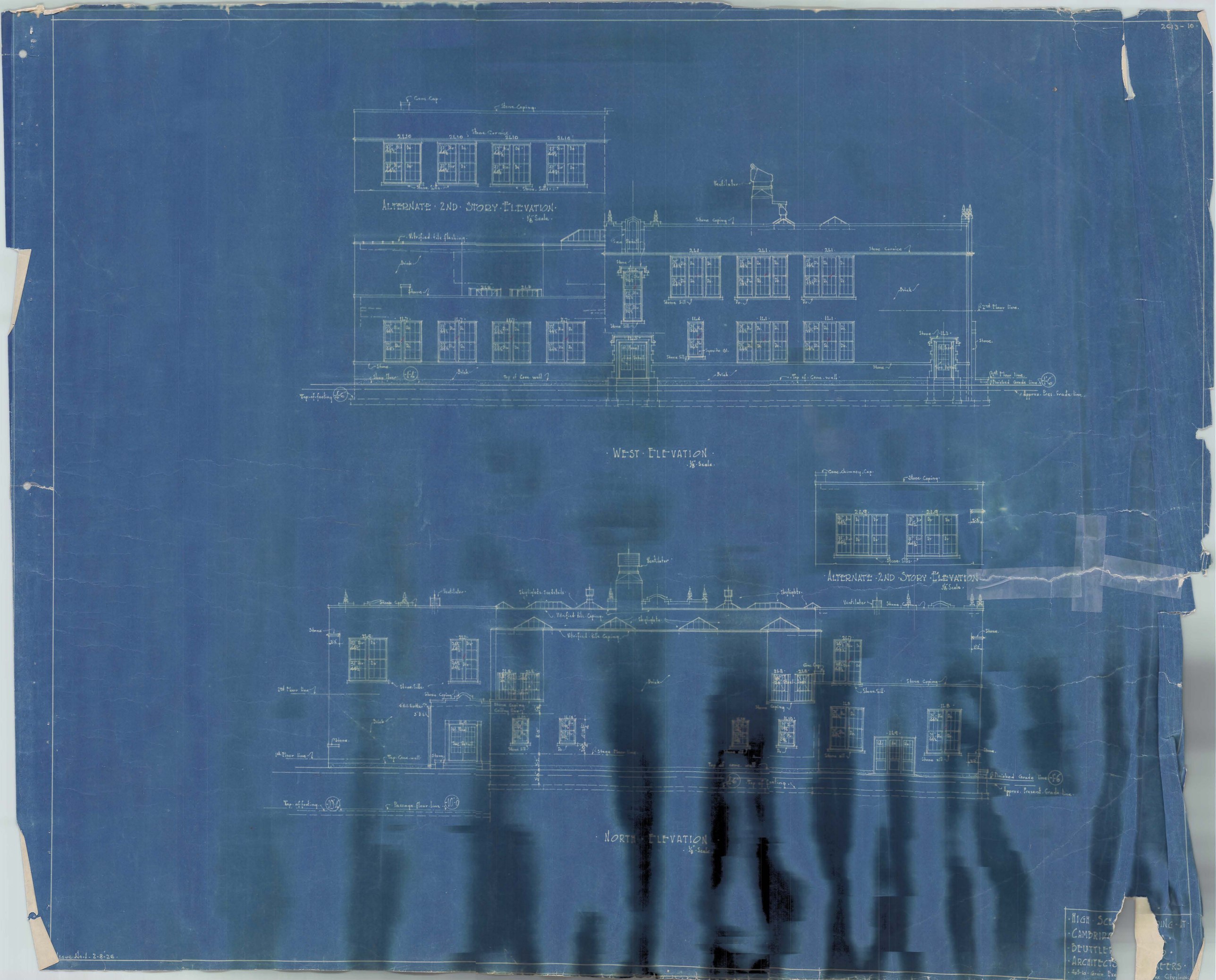
1/8 Scale

GH SCHOOL BUILDING AT AMBRIDGE NEBRASKA

BUTTLER & ARNOLD ARCHITECTS & ENGINEERS

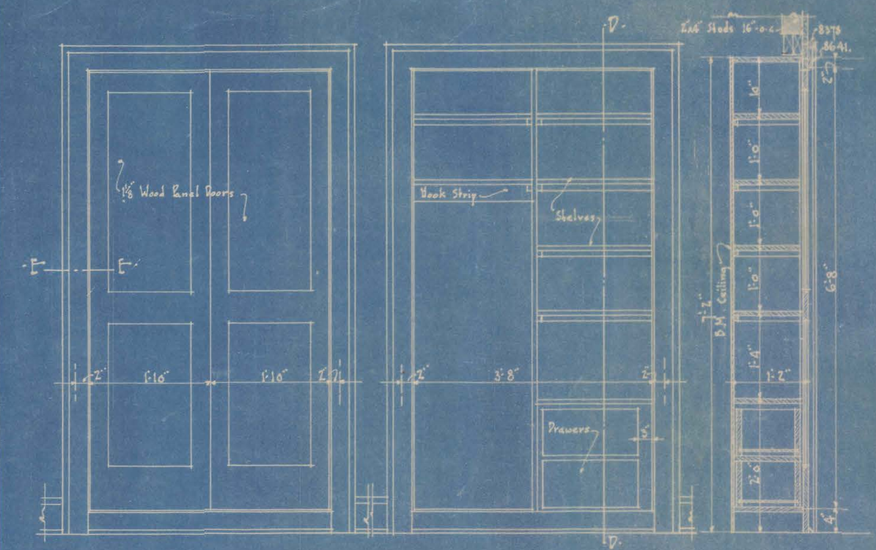
510 Grain Exchange Bldg. Sioux City Iowa.

Issue No. 1-2-8-'26



Issue No. 1 - 2-8-26

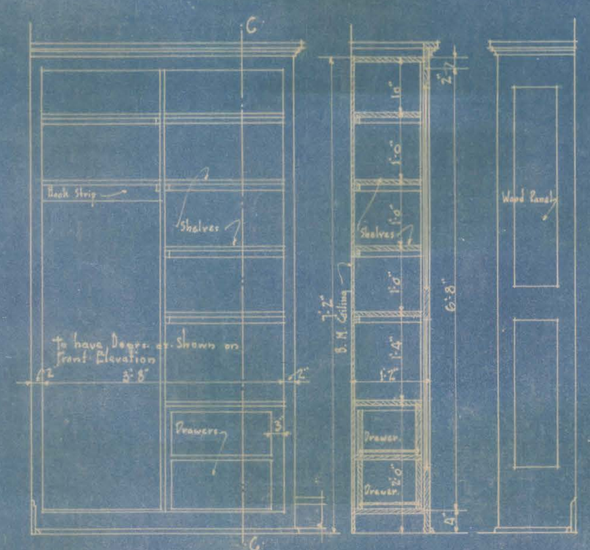
HIGH SCH... ING AT
CAMBRIDG...
BEUTTLER...
ARCHITECTS ... EERS
405-10 Grain Exc... ex City, Iowa



· FRONT · ELEVATION · · ELEVATION · INSIDE · OF · DOORS · · SECTION · D-D ·

· DETAIL · OF · RECESSED · TEACHERS · CABINET ·

· ⅜" Scale ·

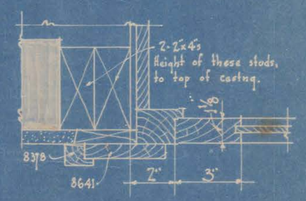


· FRONT · ELEVATION · · SECTION · C-C · · END · ELEV ·

· TYPICAL · DETAIL · OF · TEACHERS · CABINET ·

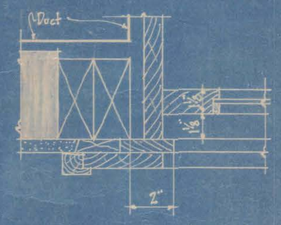
· ⅜" Scale ·

Note:- Where Teachers Cabinets are next to wall, drawers to be built on side farthest from wall.



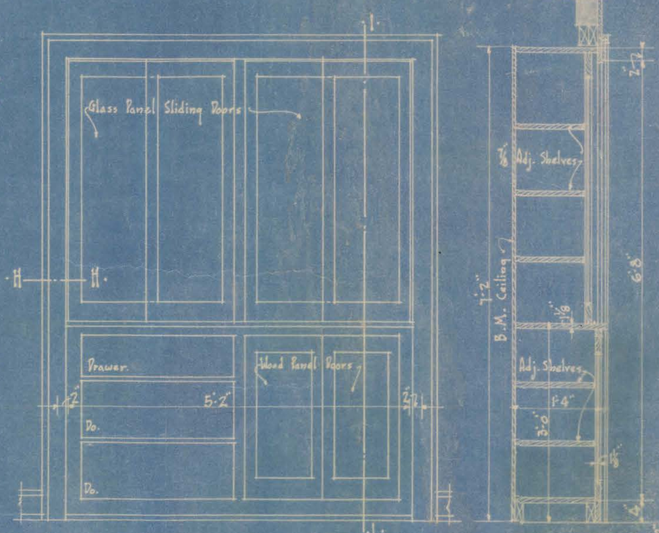
· SECTION · E-E ·

· 3" Scale ·



· SECTION · H-H ·

· 3" Scale ·



· FRONT · ELEVATION ·

· SECTION · 1-1 ·

· DETAIL · OF · CABINET · IN · LECTURE · ROOM ·

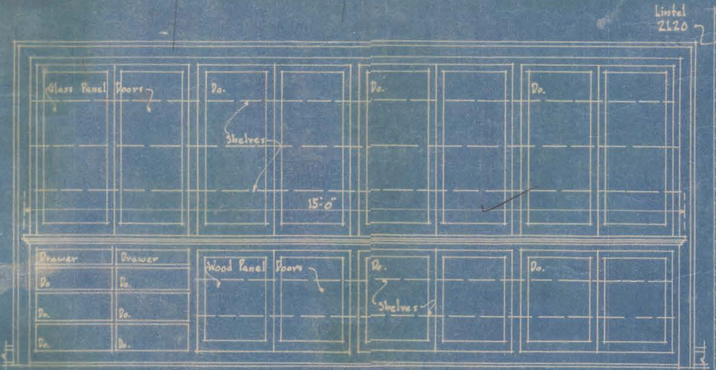
· ¾" Scale ·



· TYPICAL · DETAIL · OF · SHELVING · IN · STORAGE · RMS · 1-2-3 · & · CLOSETS · UNDER · ENTRANCE · STAIRS ·

· ½" Scale ·





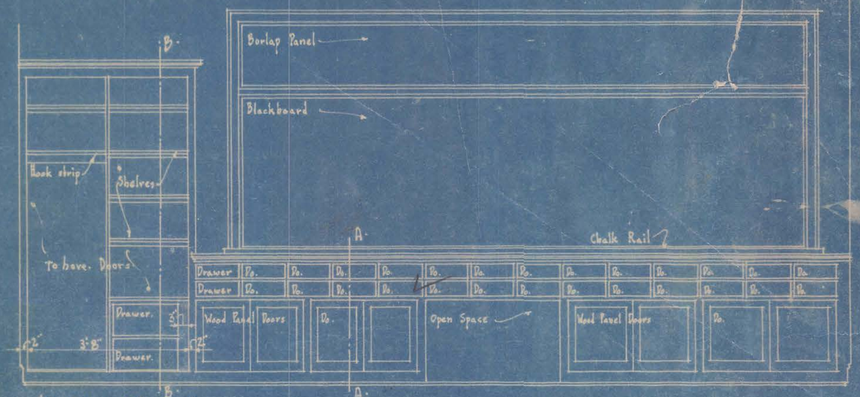
· SECTION · · ELEVATION ·

· DETAIL · OF · CABINET · IN · PHYSICS · & · GENERAL · SCIENCE · LAB ·

· ½" Scale ·



· SECTION · A-A ·



Note:- Section D-D is similar to section of Typical Teachers Cabinet except it shall be 1'4" deep.

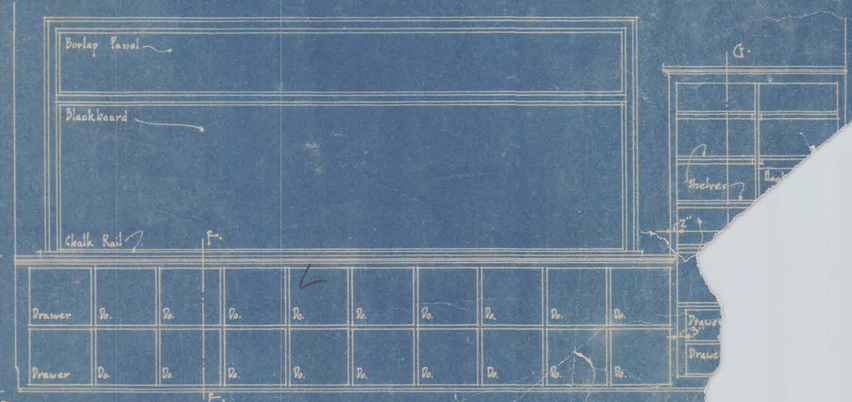
· ELEVATION ·

· DETAIL · OF · CABINET · IN · CLASS · ROOM · 6 ·

· ½" Scale ·



· SECTION · F-F ·



· ELEVATION ·

· DETAIL · OF · CABINET · IN · AGRICULTURE · & · BOTANY · LABORATORY ·

· ½" Scale ·

· SECTION ·

· ELEVATION ·

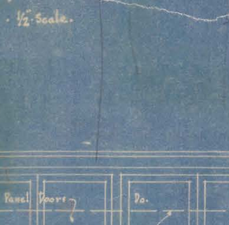
· DETAIL · OF · CABINET · IN · COOKING · LAB ·

· ½" Scale ·

· SECTION · · ELEVATION ·

· DETAIL · OF · CABINET · IN · WORK · RM ·

· ½" Scale ·



· DETAIL · OF · SHELVING · IN · LIBRARY ·

· ½" Scale ·



· DETAIL · OF · SHELVING · IN · VAULT ·

· ½" Scale ·

· SECTION · AT · C ·

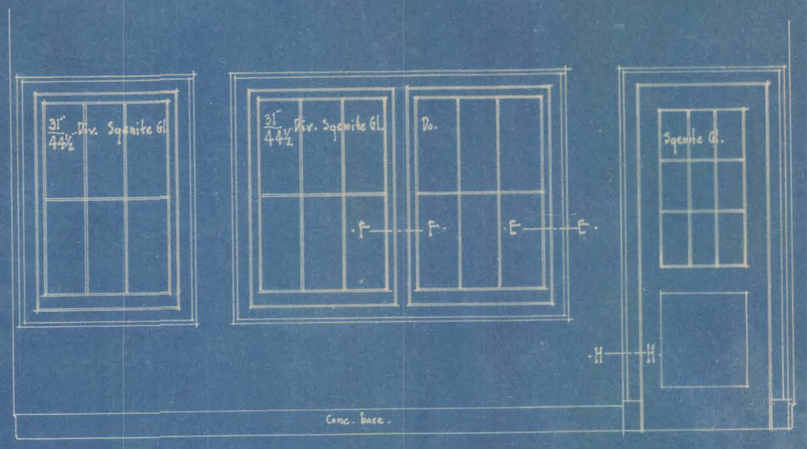
· 3" Scale ·

· PLAN · AT · D ·

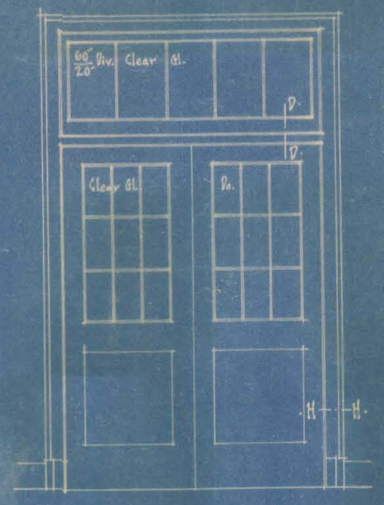
· 3" Scale ·

· SECTION · B-B ·

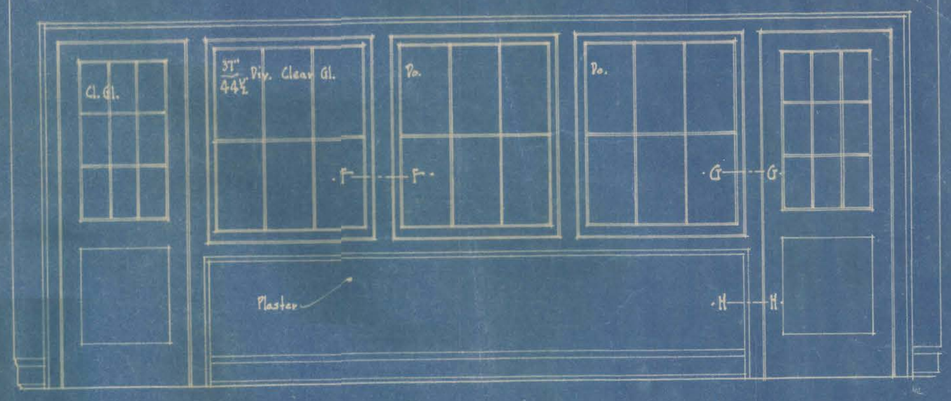
· DETAIL · OF · IRONING ·



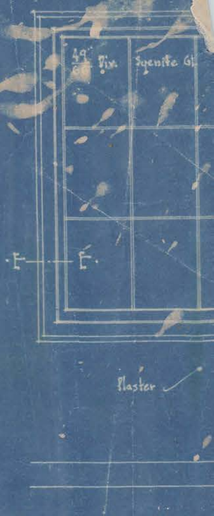
· ELEVATION · OF · DOOR · & · SIDELIGHTS ·
· IN · EDITORS · ROOM ·
½" Scale.



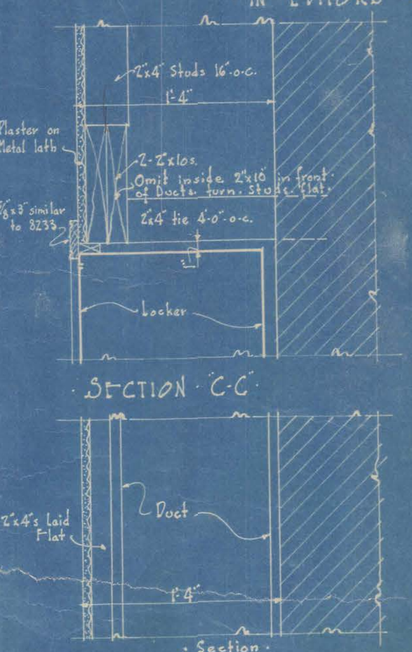
· ELEVATION · OF · DOORS ·
· BETWEEN · W.STAIR · HALL · & · CORRIDOR ·
1st & 2nd Floor
½" Scale.



· ELEVATION · OF · DOORS · & · SIDELIGHTS ·
· BETWEEN · CLASS · ROOMS · 5 · & · 6 ·
½" Scale

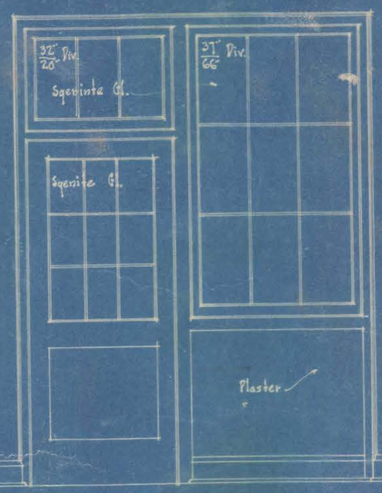


· ELEVATION · OF
· IN · PRINCIPALS

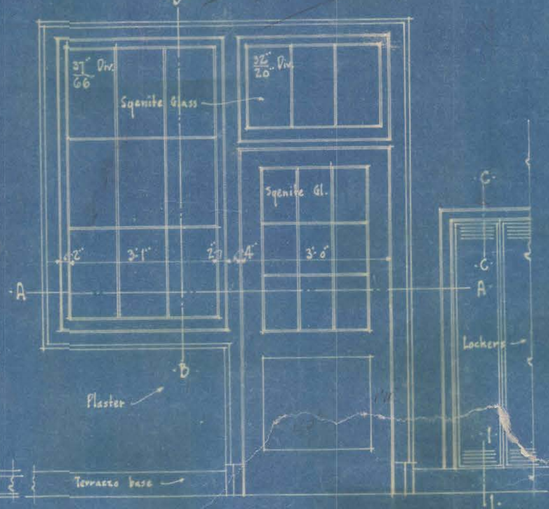


· SECTION · C-C ·

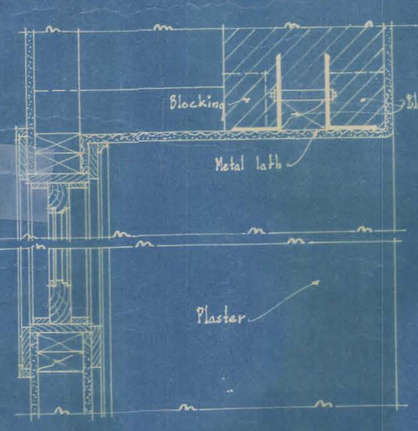
· DETAIL · OF · FURRING ·
· AROUND · DUCTS · IN · CORRIDOR ·



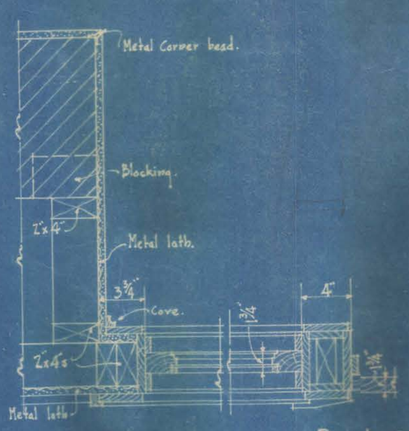
· ELEVATION · ROOM · SIDE ·

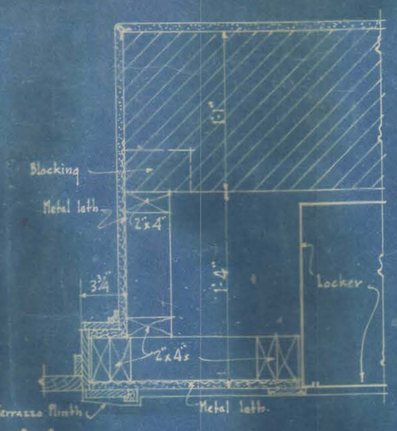


· ELEVATION · CORRIDOR · SIDE ·
Scale ½" = 1'-0"



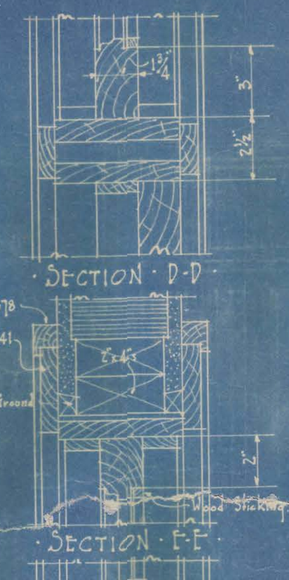
· SECTION · B-B ·





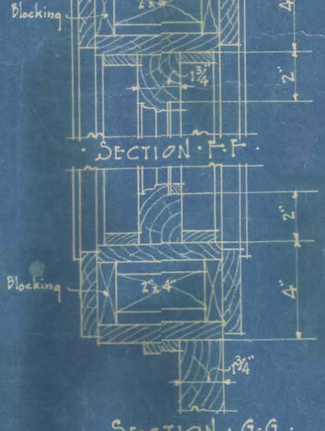
· PLAN · AT · A-A ·

· TYPICAL · DETAIL · OF · DOOR · & · SIDELIGHT · TO · CLASS · ROOMS ·
1½" Scale.

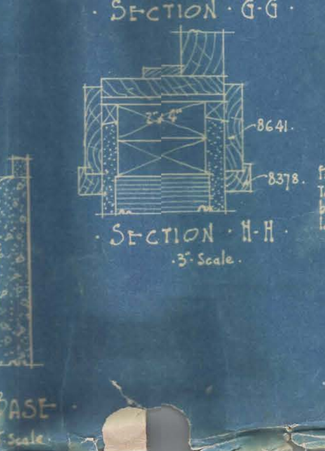


· SECTION · D-D ·

· SECTION · E-E ·

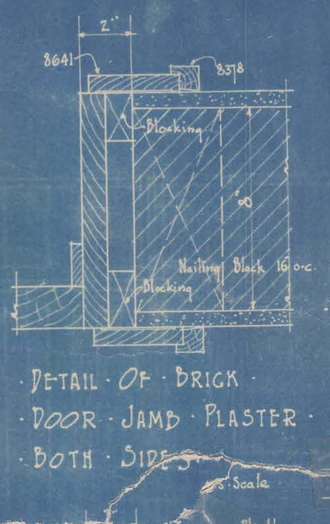


· SECTION · F-F ·

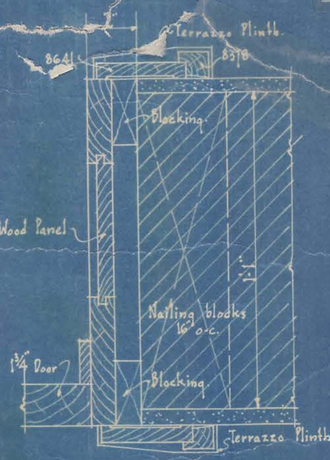


· SECTION · G-G ·

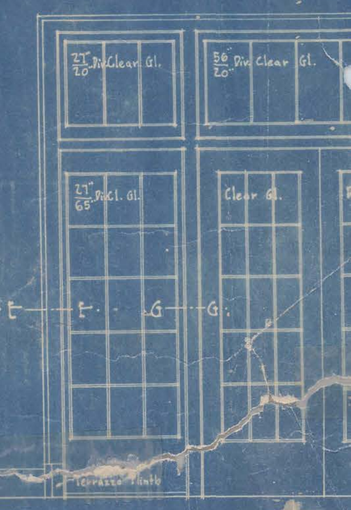
· SECTION · H-H ·
3" Scale.



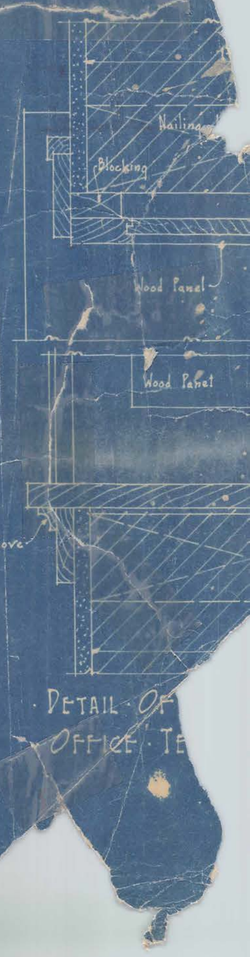
· DETAIL · OF · BRICK ·
· DOOR · JAMB · PLASTER ·
· BOTH · SIDES ·
3" Scale



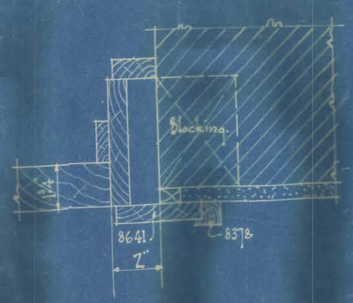
· WOOD · PANEL · JAMB ·
· FOR · DOORS ·
Note: Typical for Boys & Girls Toilets First Floor.
3" Scale.



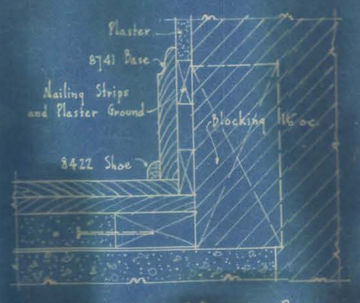
· ELEVATION · OF · DOORS ·
· BETWEEN · CORRIDOR



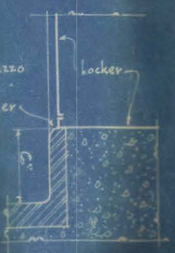
· DETAIL · OF
· OFFICE · TE



· TYPICAL · DOOR · JAMB ·
· & · SIDE ·



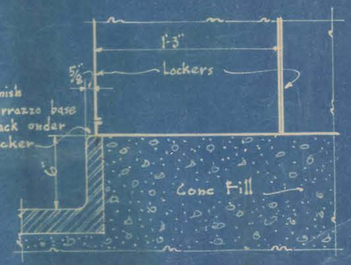
· DETAIL · OF · WOOD · BASE ·
· & · NAILING · BLOCKS ·



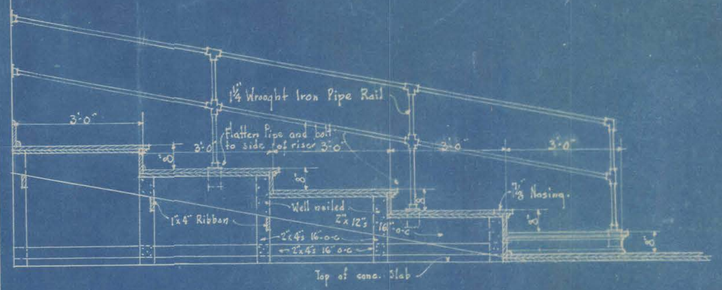
· SECTION · I-I ·



· CONC · BASE ·
½" Scale

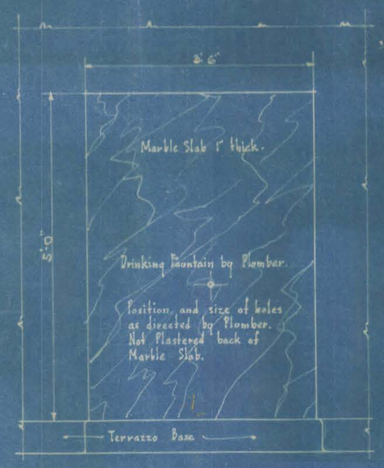


· DETAIL · OF · LOCKER · BASE ·
1½" Scale



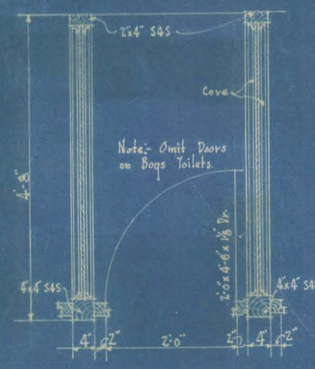
· DETAIL · OF · BLEACHERS · IN · LECTURE · ROOM ·

· ½" · Scale ·

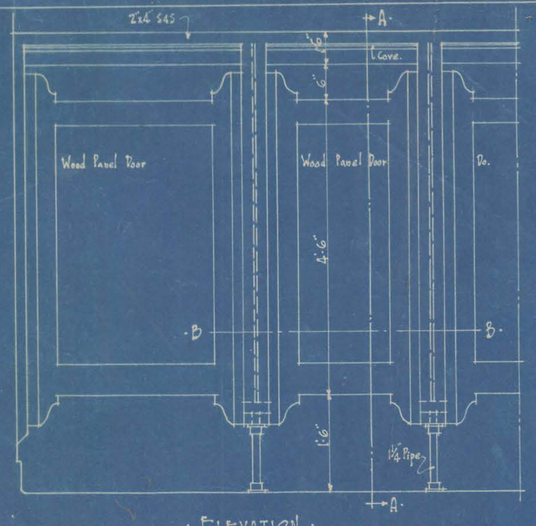


· DETAIL · OF · MARBLE · SLAB · FOR · DRINKING · FOUNTAIN ·

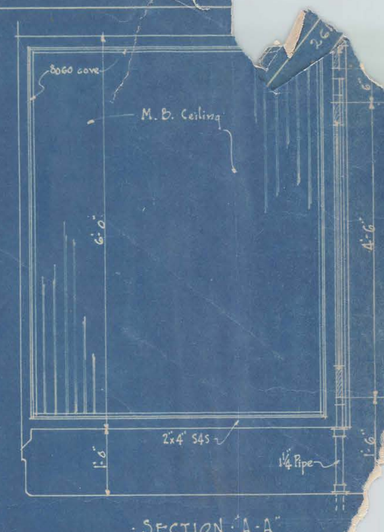
· ¾" · Scale ·



· PLAN · AT · B-B ·



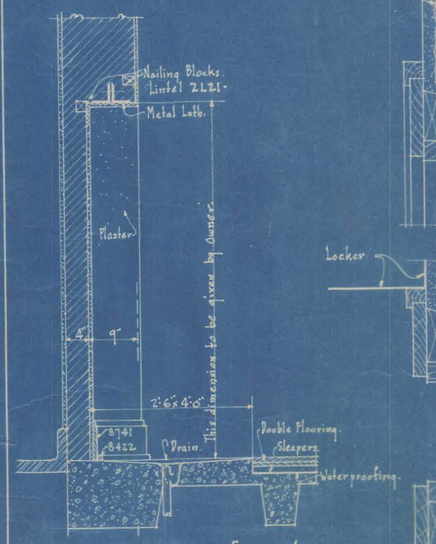
· ELEVATION ·



· SECTION · A-A ·

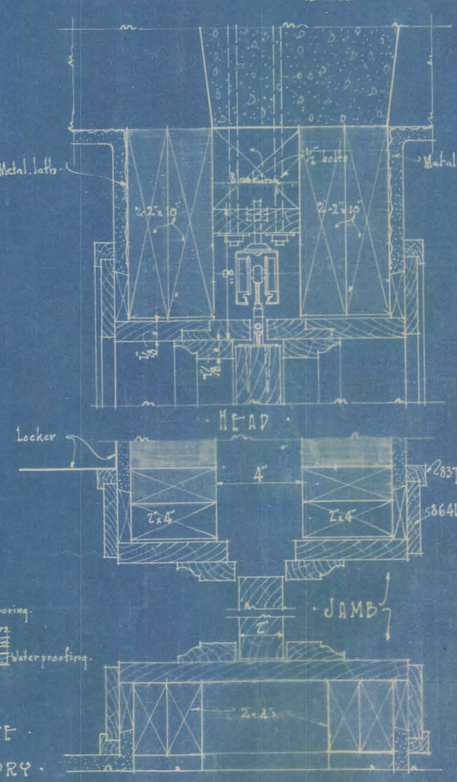
· TYPICAL · DETAIL · OF · TOILET · STALL ·

· ¾" · Scale ·



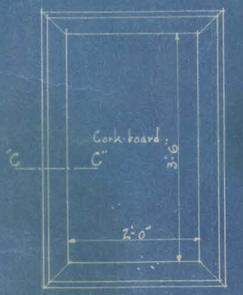
· DETAIL · OF · RECESS · FOR · ICE · BOX · IN · COOKING · LABORATORY ·

· ¾" · Scale ·



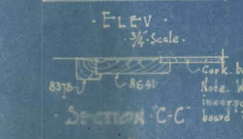
· DETAIL · OF · SLIDING · DOORS ·

· 3" · Scale ·



· ELEV ·

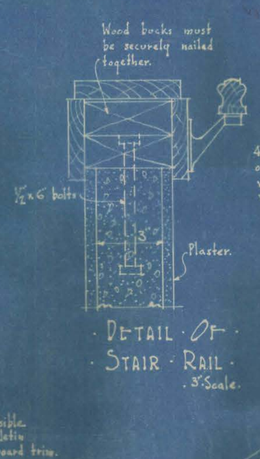
· ¾" · Scale ·



· SECTION · C-C ·

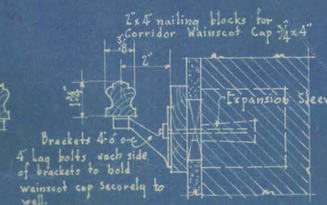
· TYPICAL · DETAIL · OF · BULLETIN · BOARD ·

Note: Bulletin Board in 1st floor Vestibule typical except it shall be 6'-0 Long.



· DETAIL · OF · STAIR · RAIL ·

· 3" · Scale ·



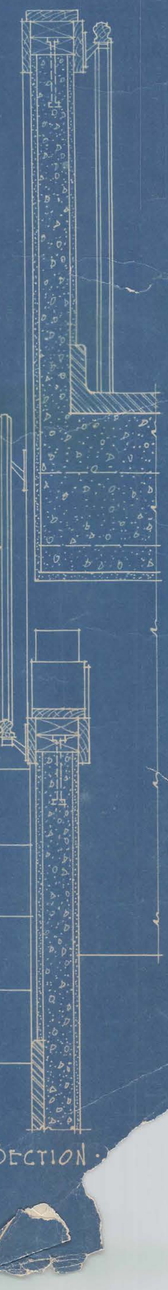
· METHOD · OF · ANCHORING · WAINSCOT · CAP · TO · BRICK · WALLS · & · STAIRWAY ·

Expansion Sleeves shall be used in side of Cove rail where wood bucks are not provided.

· STAIR · START · AT · LANDING ·

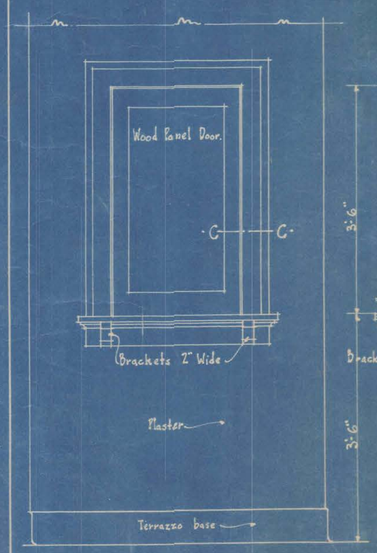
· MAIN · STAIR · DETAILS ·

· 1½" · Scale ·

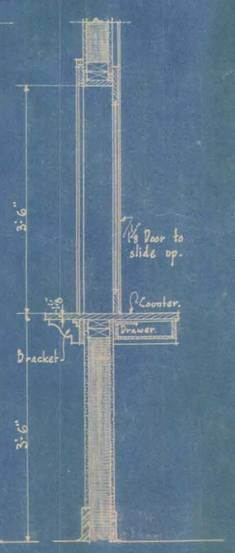


· SECTION ·





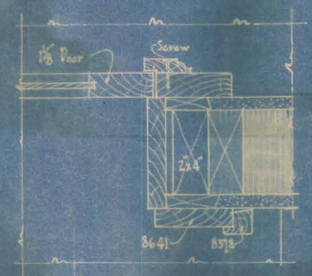
· CORRIDOR · ELEVATION ·



· SECTION ·



· ELEVATION · OFFICE · SIDE ·



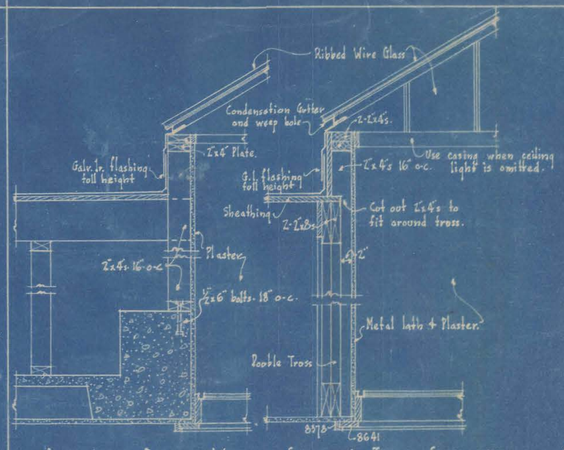
· JAMB · C-C ·

· 3" · Scale ·

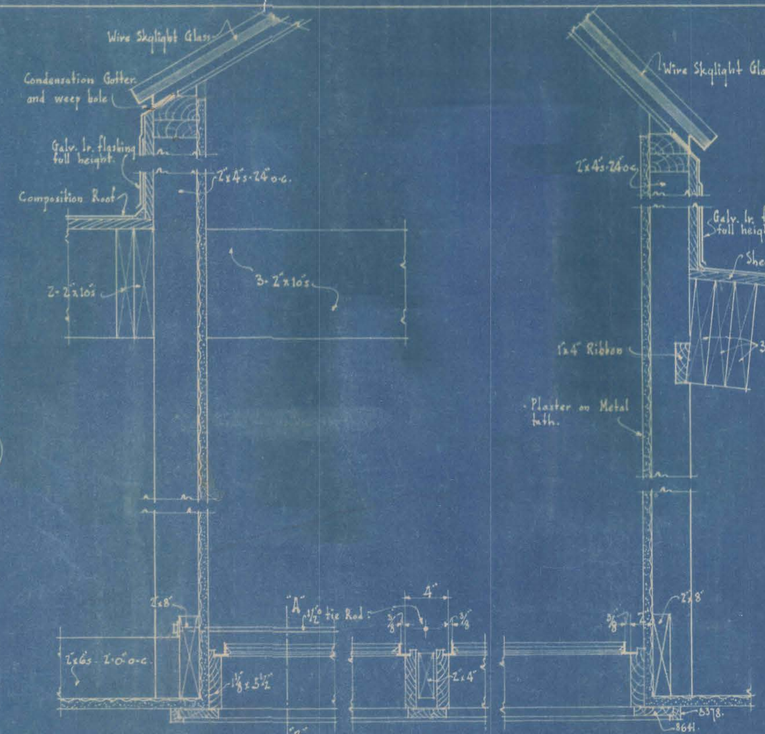
· DETAIL · OF · TICKET · OFFICE · WINDOW ·

· ¾" · Scale ·

Issue No. 1 - 2-8-26



· ALTERNATE · DETAIL · IN · CONCRETE · ROOF ·



· SECTION · THRU · SKYLIGHT · IN · WOOD · ROOF ·

Note:- Skylights over toilets omit ceiling lights.

· DETAIL · OF · SKYLIGHTS · EXCEPT · THOSE · IN · STUDY · HALL ·

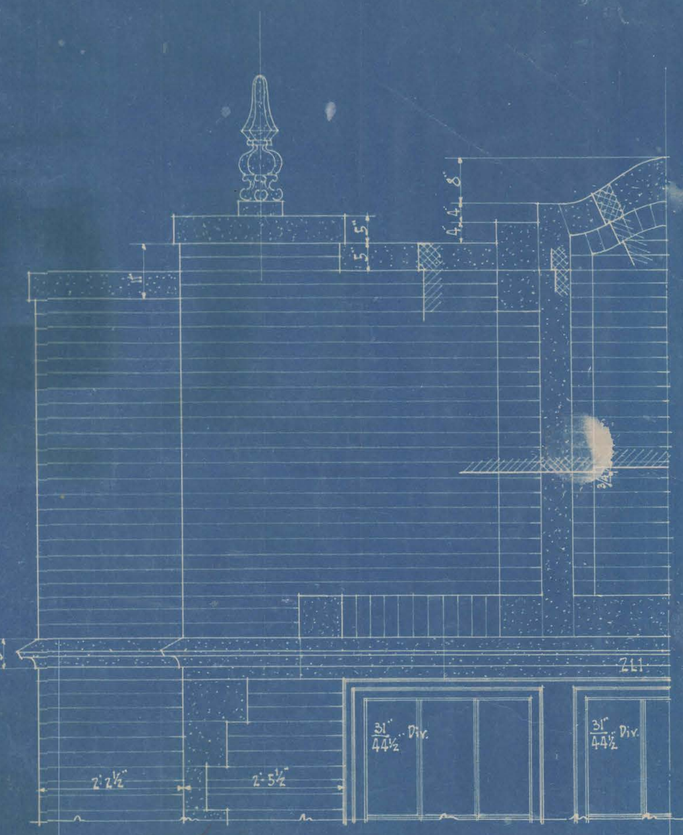
¾" Scale.

· SECTION · THRU · SIDE · SKYLIGHT · OVER · STUDY · HALL ·

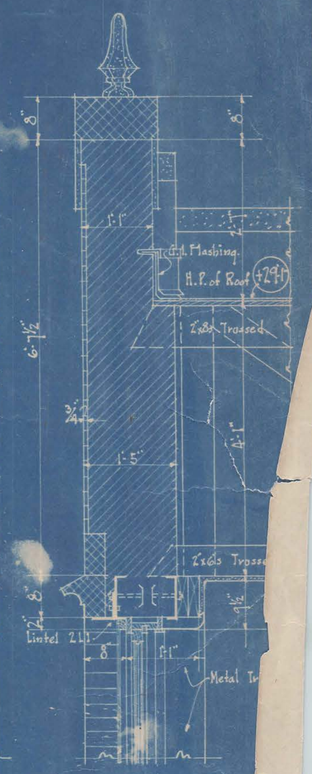
· AT · A-B ·

· SECTION · THRU · END ·

½" Scale.



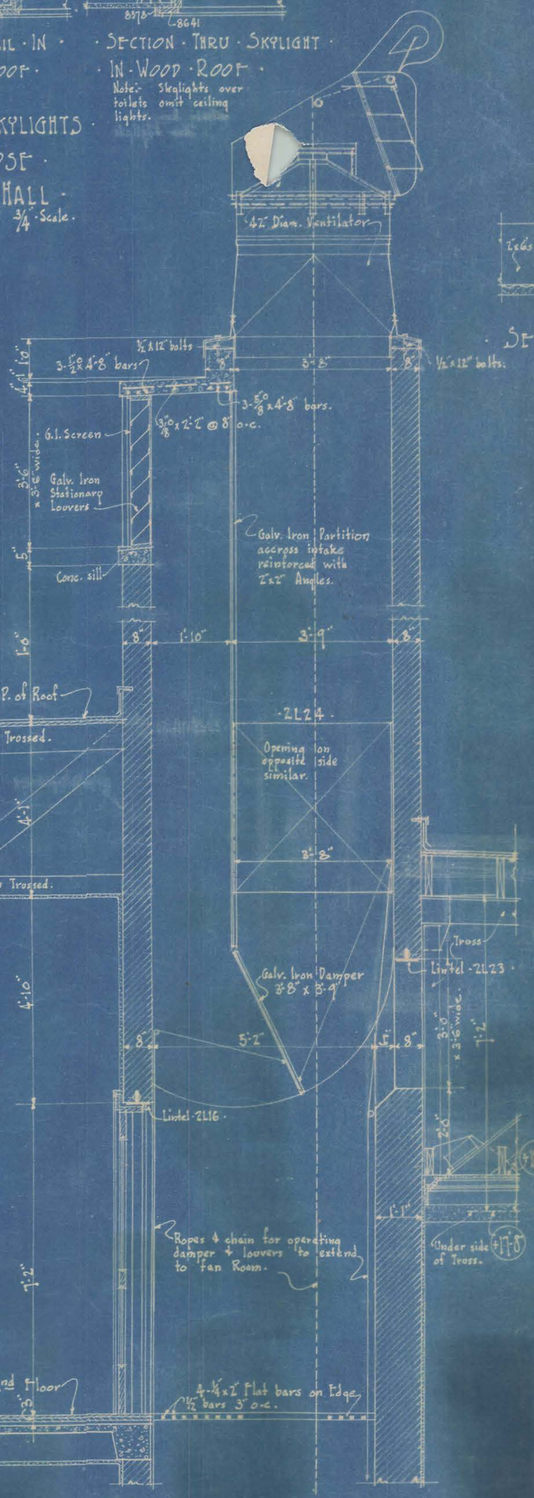
· ELEVATION ·



· SECTION ·

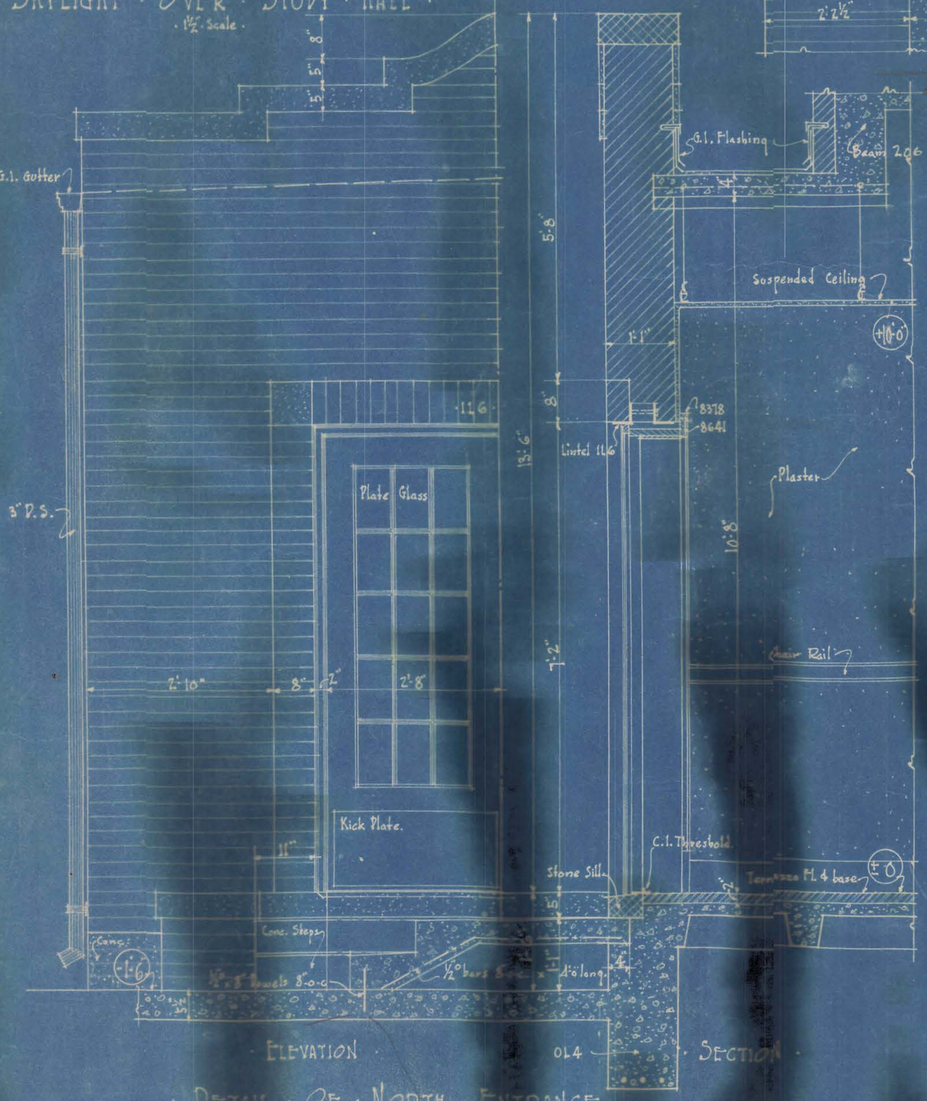
· DETAIL · OF · BAYS · ON · SOUTH · ELEVATION ·

¾" Scale.



· DETAIL · OF · FRESH · AIR · INTAKE ·

½" Scale.



· ELEVATION ·

· SECTION ·

· DETAIL · OF · NORTH · ENTRANCE ·

¾" Scale.



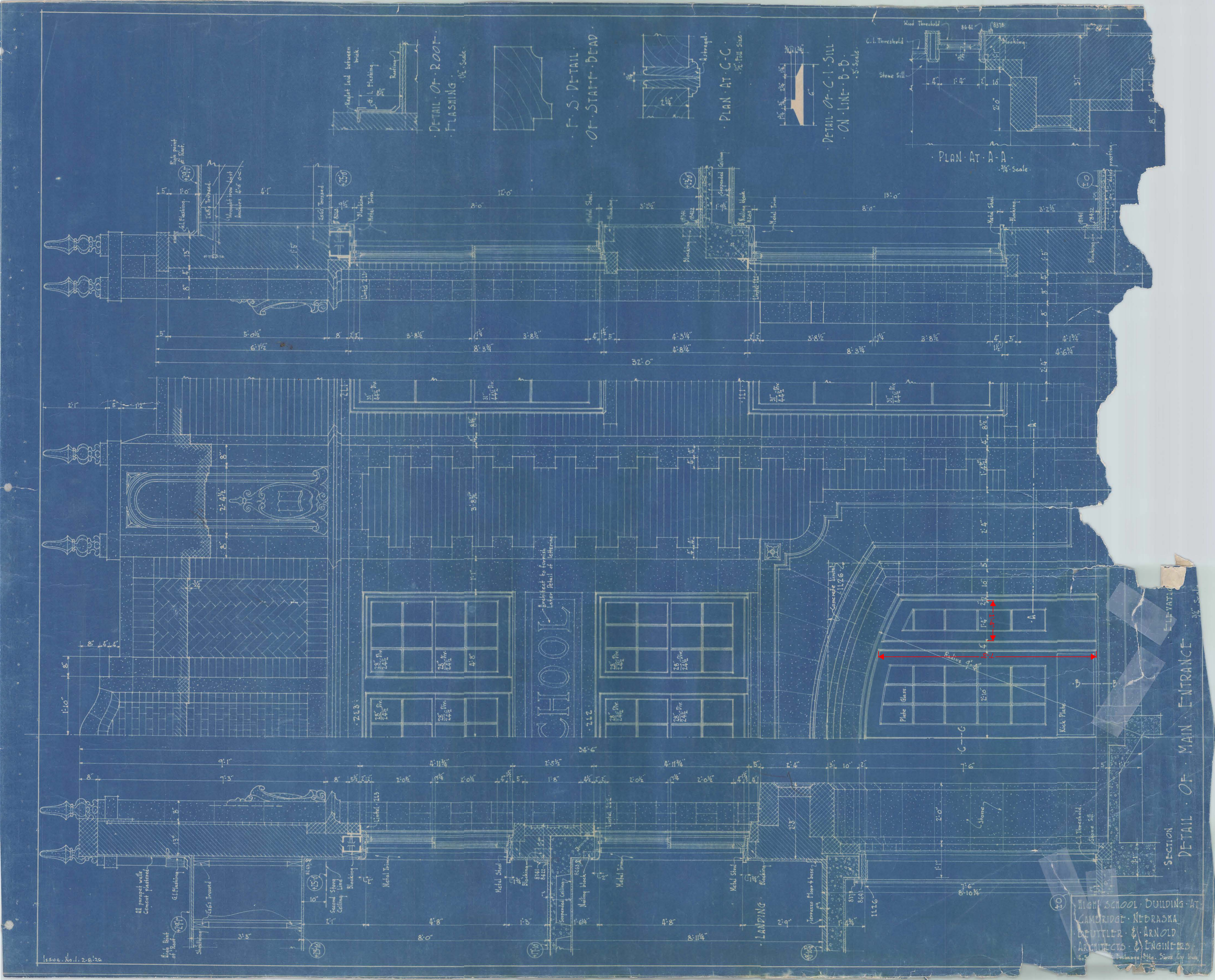
· ELEVATION ·

· SECTION ·

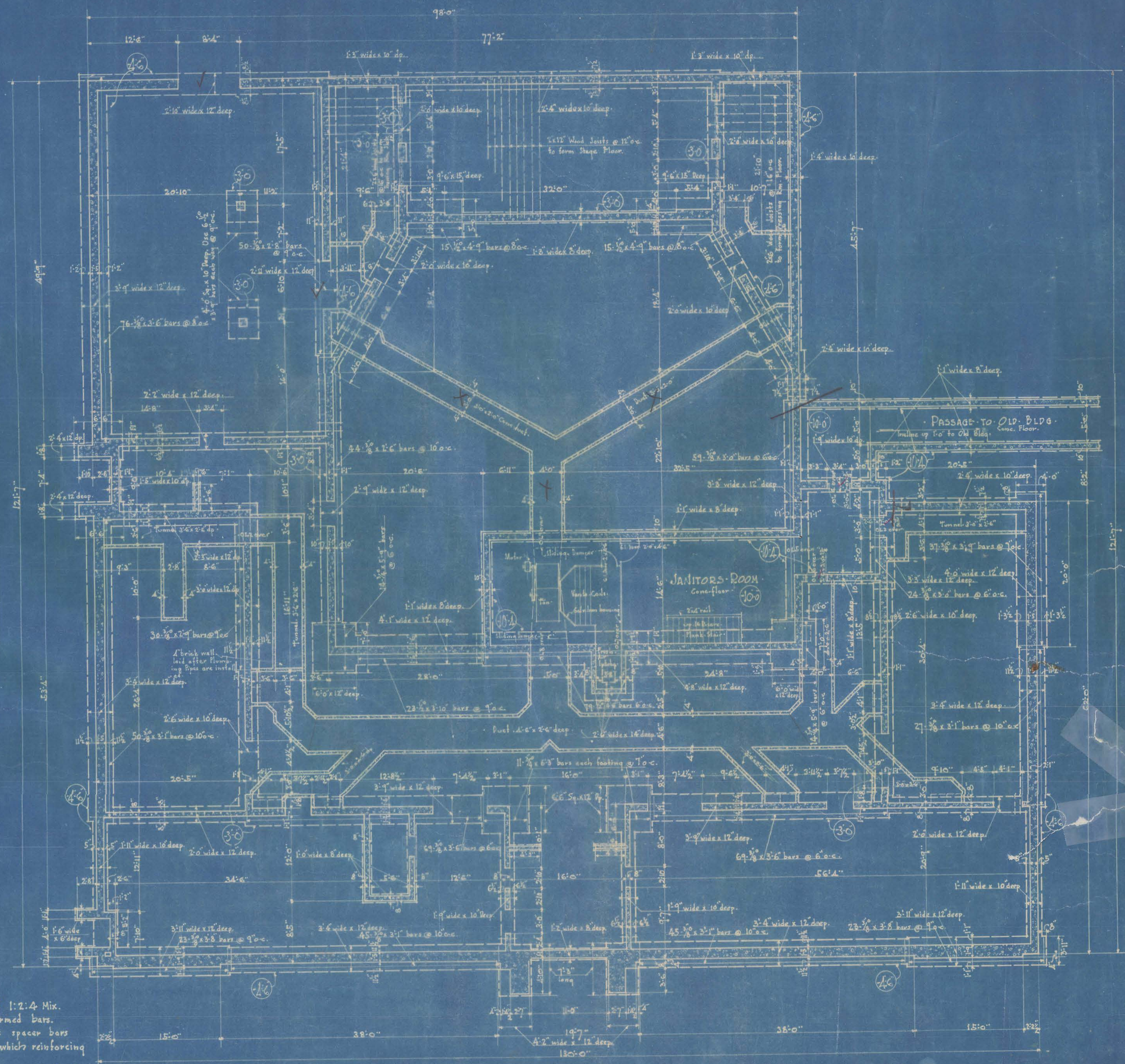
· DETAIL · OF · ENTRANCE · TO · LIBRARY ·

¾" Scale.

HIGH SCH
CAMBRID
DE-



DETAIL OF ROOF FLASHING
F. S. DETAIL OF STAFF BEAD
PLAN AT C-C
DETAIL OF C.I. SILL ON LINE B-B
PLAN AT A-A
SECTION DETAIL OF MAIN ENTRANCE
HIGH SCHOOL BUILDING AT CAMBRIDGE NEBRASKA
BEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
Issue No. 1. 2-8-26



Foundation Notes:

Concrete for all footings shall be of 1:2:4 Mix.
All footing bars shall be round, deformed bars.
Provide not less than 2-⅜" continuous spacer bars in all reinforced wall footings, to which reinforcing bars shall be securely wired.
Thickness of concrete slabs over all concrete ducts shall be 4", and reinforcing ⅜" bars @ 6" o.c.
Dowels in footings for Col 1 and 2 shall be 4-⅜" x 3'-4" bars each.

SCHEDULE OF

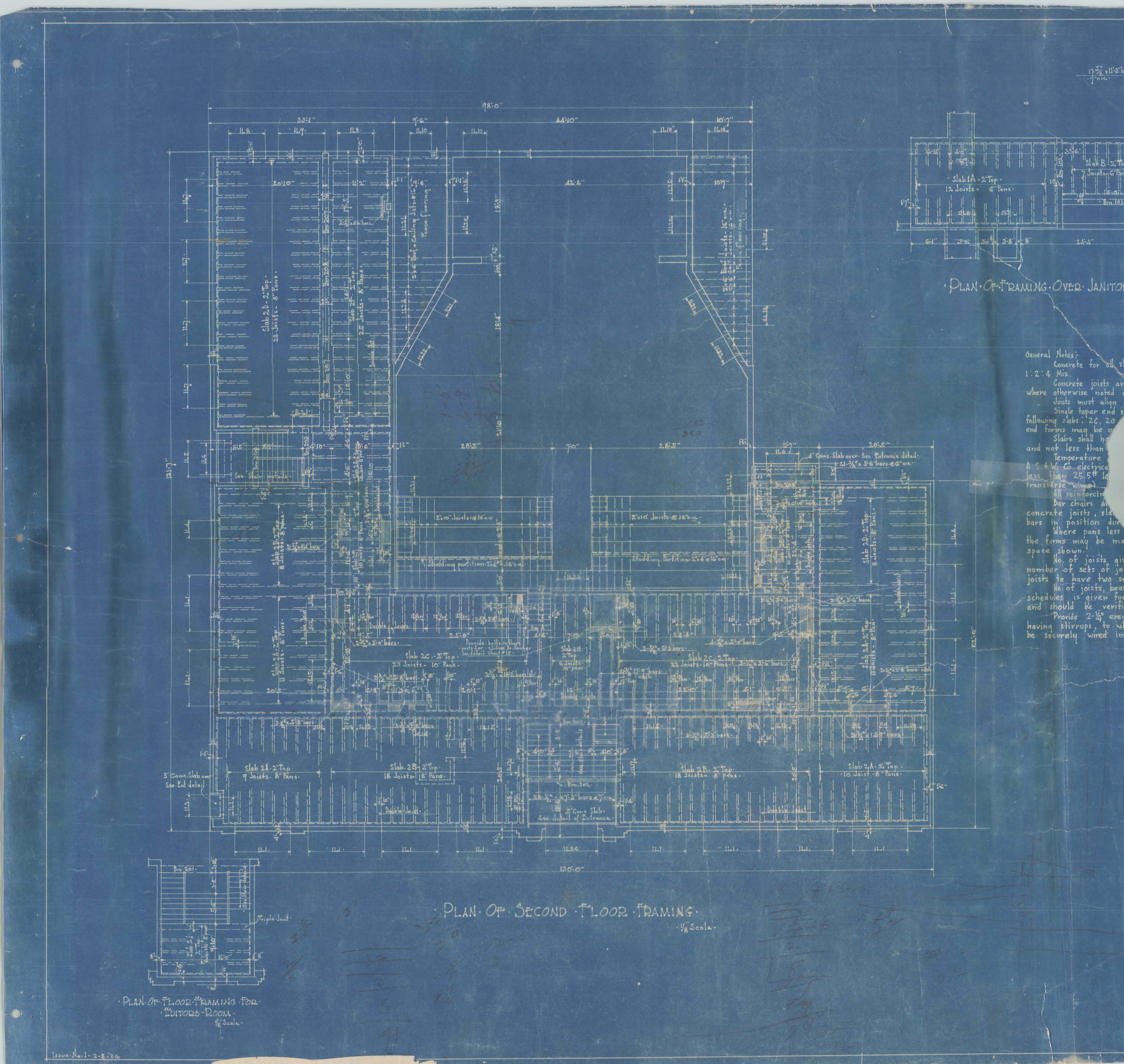
Brick.
Terrazzo.
Plaster.
Stone
Concrete
Metal

PLAN OF BASEMENT AND FOUNDATION.

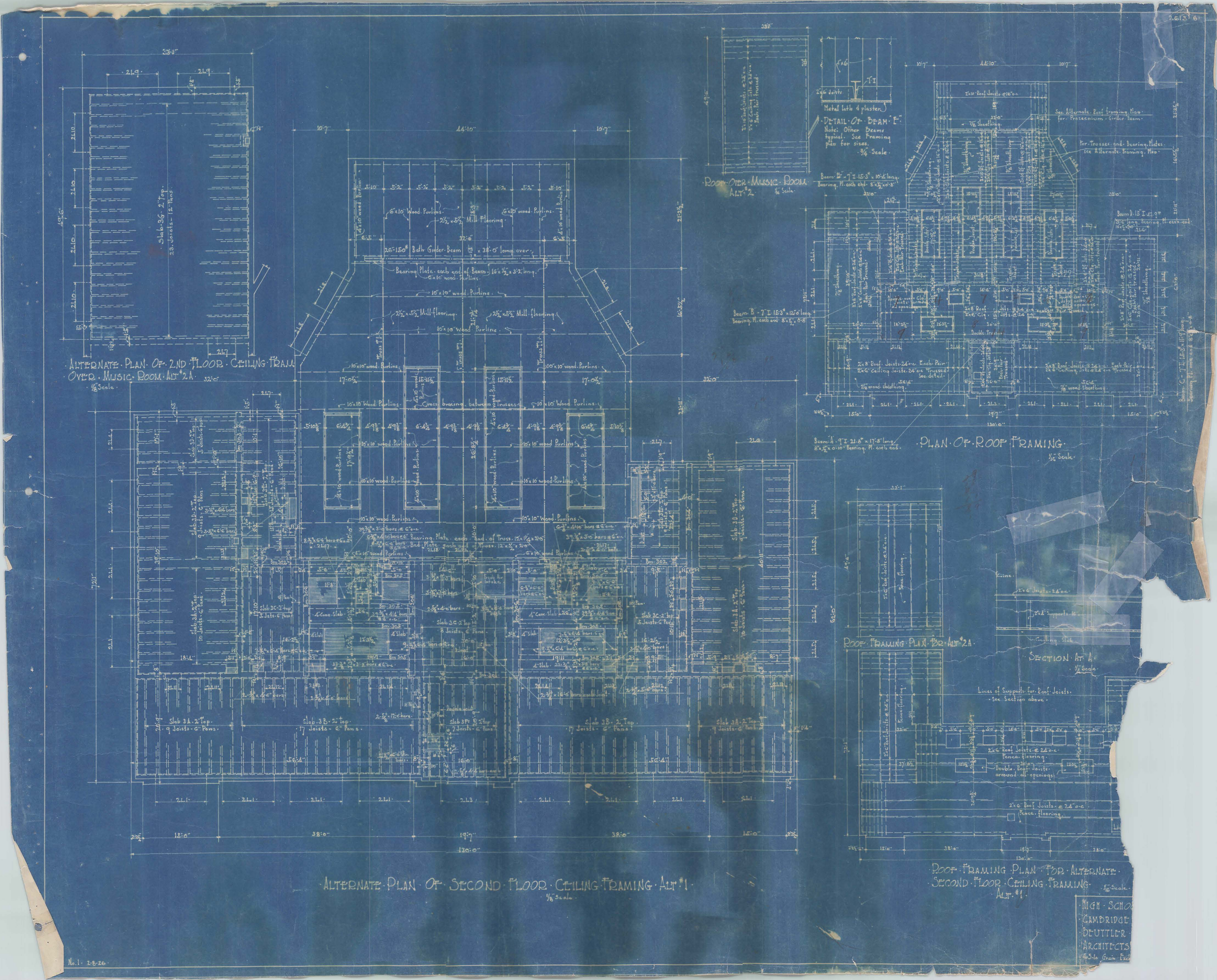
½" Scale.

HIGH
CAMBRIDGE
BEUTTLER
ARCHITECTS

Issue No. 1 - 2-8-26.



PLAN OF FRAMING OVER JANITOR
General Notes:-
Concrete for all s
1:2:4 Mix.
Concrete joists ar
where otherwise noted
Joists must align
Single taper end s
following slabs: 2C, 2G
end forms may be u
Slabs shall ha
and not less than
Temperature
A. S. & W. Co. electrica
less than 25.5# lo
transverse wires)
All reinforcin
bar chairs a
concrete joists, sla
bars in position do
Where pans less
the forms may be ma
space shown.
No. of joists gi
number of sets of jo
joists to have two se
No. of joists, bea
schedules is given fo
and should be verif
Provide 2-¼" erec
having stirrups, to w
be securely wired in
Slab 1A - 2" Top - 12 Joists - 6" Pans
Slab 2D - 2" Top - 23 Joists - 8" Pans
Slab 2F - 2" Top - 25 Joists - 8" Pans
Slab 2C - 2" Top - 23 Joists - 10" Pans
Slab 2C - 2" Top - 22 Joists - 10" Pans
Slab 2A - 2" Top - 9 Joists - 8" Pans
Slab 2B - 2" Top - 18 Joists - 8" Pans
Slab 2B - 2" Top - 18 Joists - 8" Pans
Slab 2A - 2" Top - 10 Joist - 8" Pans
Slab 2D - 2" Top - 8 Joists - 8" Pans
Slab 2A - 2" Top - 11 Joists - 8" Pans
Studding partition 2"x4" @ 16" o.c.
2"x10" Joists @ 16" o.c.
Double Joists
Triple Joist
3" Conc. Slab over See Ent. detail
4" Conc. Slab over See Entrance detail
5" Conc. Slab See detail of Entrance
See Stair details
98'-0"
130'-0"
PLAN OF SECOND FLOOR FRAMING
1/8" Scale
PLAN OF FLOOR FRAMING FOR EDITORS ROOM
1/8" Scale
Issue No. 1. 2-8-26



ALTERNATE PLAN OF 2ND FLOOR CEILING FRAM OVER MUSIC ROOM ALT #2A
1/8" Scale
ROOF OVER MUSIC ROOM ALT #2
1/16" Scale
DETAIL OF BEAM "E"
Note: Other Beams typical. See Framing plan for sizes.
3/4" Scale
PLAN OF ROOF FRAMING
1/16" Scale
ALTERNATE PLAN OF SECOND FLOOR CEILING FRAMING ALT #1
1/8" Scale
ROOF FRAMING PLAN FOR ALT #2A
SECTION AT A
1/4" Scale
ROOF FRAMING PLAN FOR ALTERNATE SECOND FLOOR CEILING FRAMING ALT #1
1/16" Scale
HIGH SCHO
CAMBRIDGE
BEUTTLER
ARCHITECTS
No. 1 - 2-8-26

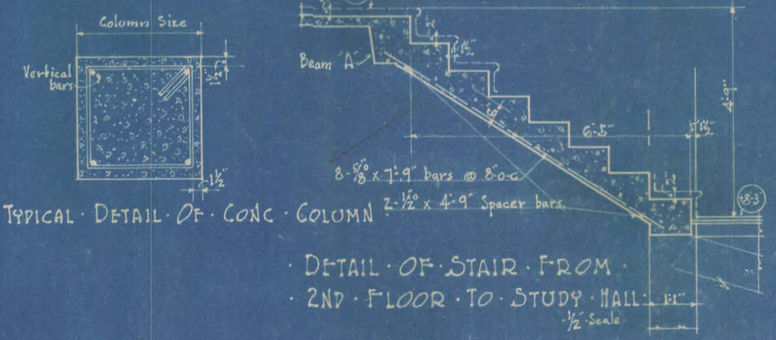
2613-7

· SLAB · SCHEDULE · FIRST · FLOOR ·

Total No. Joists	Mark	No. of Bars	Size	Length.						
12	1A	1 1	3/8" 3/4"	16'-0" 15'-8"	2'-6"	1'-0"	9'-0"	1'-0"	2'-6"	6"
7	1B	1 1	5/8" 5/8"	12'-2" 11'-10"	1'-8"	1'-0"	6'-10"	1'-0"	1'-8"	6"
5	1C	1 1	5/8" 3/4"	12'-0" 11'-8"	1'-8"	1'-0"	6'-8"	1'-0"	1'-8"	6"
· SECOND · FLOOR ·										
41	2A	1 1	7/8" 7/8"	26'-6" 26'-3"	3'-1"	1'-4"	11'-8"	1'-4"	3'-1"	8"
36	2B	1 1	3/4" 3/4"	25'-6" 26'-3"	9'-0"	1'-4"	10'-9"	1'-4"	3'-1"	8"
45	2C	1 1	1" 1"	28'-4" 22'-3"	9'-9"	1'-8"	12'-0"	1'-8"	3'-3"	10"
39	2D	1 1	7/8" 5/8"	25'-6" 26'-3"	9'-0"	1'-4"	10'-9"	1'-4"	3'-1"	8"
10	2E	1 1	5/8" 1/2"	16'-4" 11'-8"	Str. bar in top of Joists					
35	2F	1 1	5/8" 5/8"	16'-4" 11'-8"	Str. bar in top of Joists.					
4	2G	1 1	3/4" 7/8"	16'-0" 15'-8"	2'-2"	1'-4"	9'-0"	1'-4"	2'-2"	8"
6	2H	1 1	1" 1"	24'-6" 24'-0"	3'-7"	1'-8"	14'-0"	1'-8"	3'-7"	10"
6	2J	1 1	3/4" 3/4"	17'-8" 17'-3"	2'-4"	1'-4"	10'-4"	1'-4"	2'-4"	8"
· ALTERNATE · CEILING · FRAMING ·										
38	3A	1 1	7/8" 1"	26'-8" 26'-3"	3'-5"	1'-0"	11'-10"	1'-0"	3'-5"	6"
34	3B	1 1	3/4" 7/8"	25'-6" 26'-3"	9'-1"	1'-0"	11'-0"	1'-0"	3'-5"	6"
18	3C	1 1	7/8" 7/8"	28'-2" 22'-3"	10'-4"	1'-0"	12'-0"	1'-0"	3'-10"	6"
23	3D	1 1	3/4" 3/4"	25'-6" 26'-3"	9'-1"	1'-0"	11'-0"	1'-0"	3'-5"	6"
24	3E	1 1	3/4" 3/8"	16'-4" 11'-8"	Str. bar in top of Joists.					
7	3F	1 1	7/8" 7/8"	26'-6" 21'-0"	9'-8"	1'-0"	11'-2"	1'-0"	3'-8"	6"
23	3G	1 1	1"a 1"a	32'-4" 31'-10"	4'-9"	2'-0"	18'-10"	2'-0"	4'-9"	12"

· CONCRETE · COLUMN · SCHEDULE ·

Column Numbers	Col. Size.	Bars. No.	Bars. Size	Bars. Length	Ties. No.	Ties. Size	Ties. Length	Ties. Spac'ing	Load in 1000 lbs.
1 and 2	15"x13"	4	5/8"	15'-8"	16	3/8"	4'-4"	12"	28.7



· TYPICAL · DETAIL · OF · CONC · COLUMN

· CONCRETE · LINTEL · SCHEDULE ·

Total No. Lintels	Lintel No.	Width	Depth	Bars. No.	Bars. Size	Bars. Length							Length of 1L-4 x 4½ x 5/16 to carry Face brick. Provide ½"x8" Anchor bolts @ abt. 3'-0" c.
1	OL3	In Slab		4	5/8"	4'-2"	Str. bars.						
1	OL4	In Wall		4	5/8"	4'-6"	Str. bars.						
1	OL5	13"	13"	3	5/8"	6'-6"	Str. bars.						
1	OL6	In Wall		3	½"	4'-2"	"	"					
1	OL7	In Slab		4	½"	4'-10"	"	"					
1	OL8	In Slab		4	5/8"	6'-2"	"	"					
1	OL9	In Slab		3	5/8"	5'-2"	"	"					
1	2L2	8"	15¼"	1 2	3/8" 3/4"	11'-4" 10'-6"	1'-4"	1'-4"	6'-0"	1'-4"	1'-4"	11"	10'-0"
12	1L1	12"	16½"	2 1 2	3/4" 5/8" 3/4"	12'-6" 11'-8" 11'-8"	1'-6"	1'-5"	6'-8"	1'-5"	1'-6"	12"	11'-2"
1	1L2	In Slab		3	½"	4'-6"	Str. bars.						
2	1L4	12"	16½"	4	½"	4'-10"	"	"					4'-4"
4	1L7	12"	16½"	2 2	5/8" 5/8"	10'-0" 9'-3"	1'-0"	1'-5"	5'-2"	1'-5"	1'-0"	12	8'-9"
2	1L8	12"	16½"	4	½"	8'-3"	Str. bars.						7'-9"
1	1L26	8"	Varies 1'-0¾" to 2'-3¾"	4	3/4"	12'-0"	Str. bars bent to curve of Arch						

See Large Scale Wall Section on Sheet No. 12.

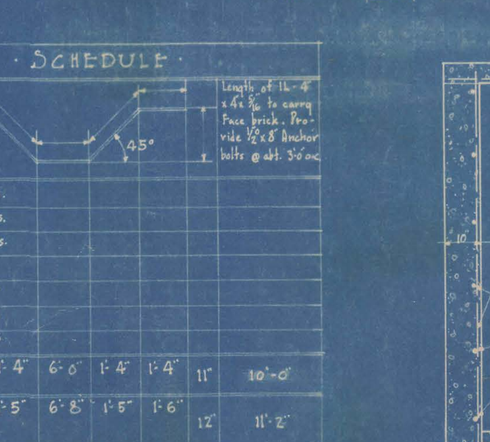
· CONCRETE · BEAM · SCHEDULE ·

Total No.	Beam No.	Width.	Depth	Tee.	Bars. No.	Bars. Size	Bars. Length					3/8" Stirrups. Total No.	3/8" Stirrups. Type.	3/8" Stirrups. Spacing starting 2" from face of each support.
1	101	11½"	14"	2'-0"	2 3	3/4" 3/4"	18'-6" 17'-4"	2'-10"	1'-2"	10'-0"	1'-7"	2'-10"	10"	
1	102	11½"	14"	1'-2"	2 3	5/8" 5/8"	16'-4" 15'-8"	2'-6"	1'-2"	9'-0"	1'-2"	2'-6"	10"	
1	201	15"	26"	3'-4"	1 2 4	1" 1" 1"	18'-4" 18'-4" 17'-2"	3'-0"	1'-11"	8'-6"	1'-11"	3'-0"	16"	26 S1 5@3½ 4@6 3@9"
								2'-4"	1'-11"	9'-10"	1'-11"	2'-4"		
								One in upper tier of bars.						
1	202	13"	14"	-	2 + 16" I = 25.4# x 17'-2" long, placed 5½ c. to c.									
1	203	11½"	16"	1'-9"	2 3	3/4" 3/4"	11'-0" 10'-2"	1'-3"	1'-5"	5'-8"	1'-5"	1'-3"	12"	
								One in upper tier.						
1	204	11½"	16"		2 3	3/4" 3/4"	11'-0" 10'-2"	1'-3"	1'-5"	5'-8"	1'-5"	1'-3"	12"	
								One in upper tier.						
2	205	13"	14"	2'-6½"	1 2 3	3/4" 3/4" 3/4"	12'-4" 12'-4" 11'-8"	2'-6"	1'-2"	5'-0"	1'-2"	2'-6"	10"	
								1'-8"	1'-2"	6'-8"	1'-2"	1'-8"		
								One in upper tier of bars.						
1	206	8"	25"		2 2	5/8" 5/8"	13'-2" 11'-8"	1'-0"	2'-6"	6'-2"	2'-6"	1'-0"	21"	
								One in upper tier of bars.						
2	207	13"	17"	2'-8"	1 2 3	7/8" 7/8" 7/8"	21'-8" 21'-8" 16'-8"	8'-0"	1'-6"	7'-5"	1'-6"	3'-3"	13"	26 S2 5@3½ 4@6 3@9"
								7'-3"	1'-6"	8'-11"	1'-6"	2'-6"		
								One in upper tier of bars.						
1	208	13"	17"	2'-2"	2 1 2	7/8" 3/4" 7/8"	25'-2" 16'-2" 16'-2"	7'-1"	1'-6"	8'-0"	1'-6"	7'-1"	13"	22 S2 4@3½ 3@6 3@9"
1	"A" Stair Bm.	10"	12"		3	3/4"	5'-6"	Str. bars only.						

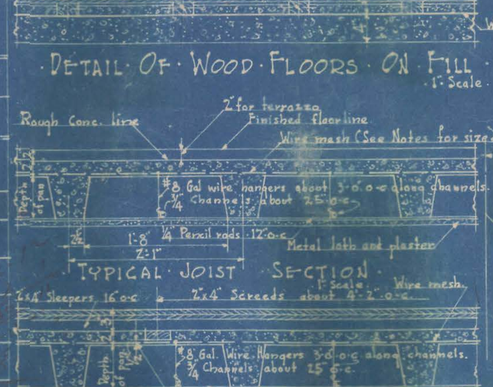
· SECOND · FLOOR · CEILING · BEAMS - ALTERNATE · SCHEDULE ·

1	301	13"	18"	3'-6"	1 2 1 3	1" 5/8" 5/8" 1"	18'-4" 18'-4" 17'-4" 17'-4"	3'-4" 2'-4"	1'-8"	8'-4" 10'-4"	1'-8"	3'-4" 2'-4"	14"	24 S2 5@4 4@7 2@10"
								In upper tier of bars.						
								One in upper tier of bars.						
2	302	11½"	13"	1'-8"	2 2	3/4" 3/4"	12'-4" 11'-8"	1'-9"	1'-1"	6'-8"	1'-1"	1'-9"	9"	
1	303	11½"	14"	1'-6"	2 2	3/4" 5/8"	11'-0" 10'-4"	1'-4"	1'-2"	6'-0"	1'-2"	1'-4"	10"	
1	304	15"	18"	4'-6"	2 2 4	1" 1" 1"	21'-4" 21'-4" 20'-4"	4'-0" 3'-0"	1'-8"	10'-0" 12'-0"	1'-8"	4'-0" 3'-0"	14"	26 S2 5@4 4@7 3@16
								Three in upper tier of bars.						
8	305	11½"	16"		2 3	3/4" 3/4"	21'-10" 21'-0"	3'-4"	1'-5"	12'-4"	1'-5"	3'-4"	12"	
See Skylight Detail								One in upper tier of bars.						
4	306	15"	20"	2'-0"	1 2 3	1" 1" 1"	23'-6" 23'-6" 22'-4"	4'-4" 3'-4"	1'-11"	11'-0" 13'-0"	1'-11"	4'-4" 3'-4"	16"	
See Skylight Detail on sheet No. 14								One in upper tier of bars.						

Issued. No. 1. 2-8-26

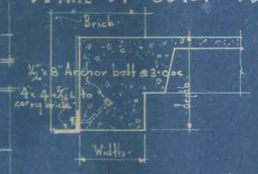


· DETAIL · OF · WOOD · FLOORS · ON · FILL ·
1" Scale.

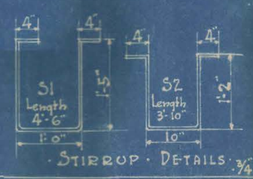


· TYPICAL · JOIST · SECTION ·
1" Scale.

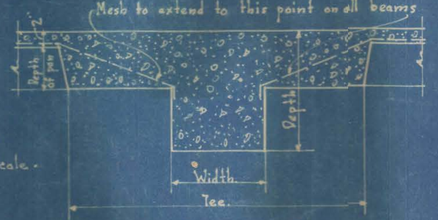
· DETAIL · OF · JOIST · FOR · WOOD · FLOOR ·
1" Scale.



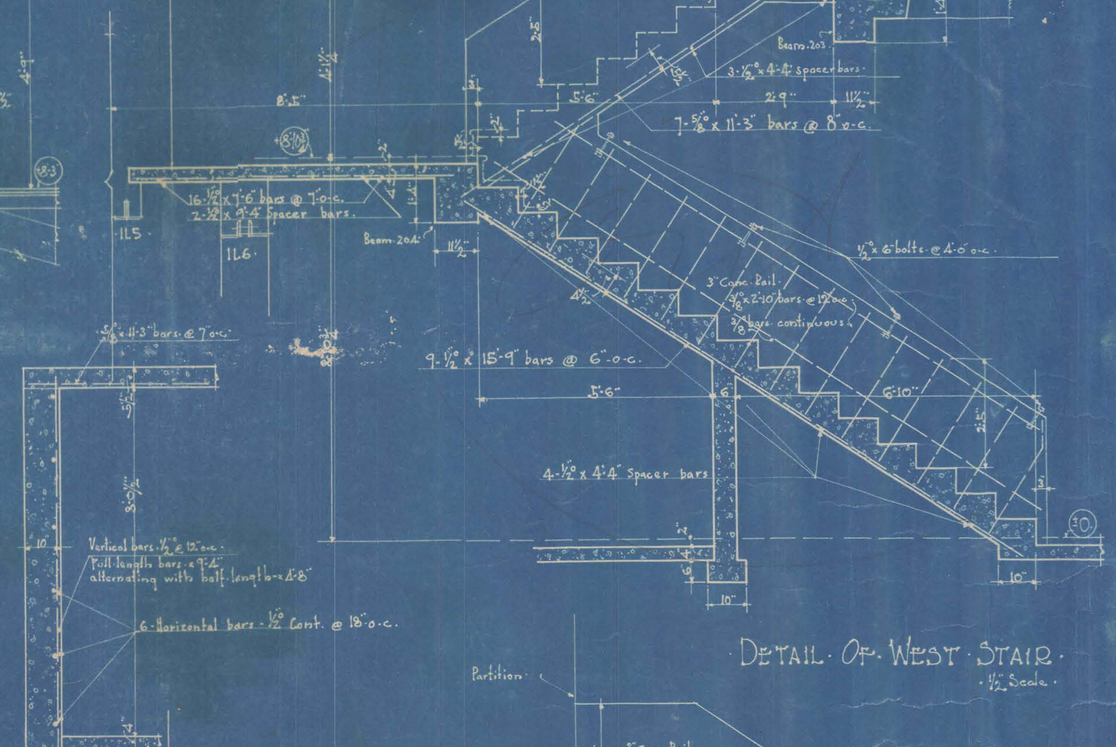
· CONCRETE · LINTEL · DETAIL ·
3/4" Scale.



· STIRRUP · DETAILS · ¾" Scale.



· TYPICAL · BEAM · DETAIL ·



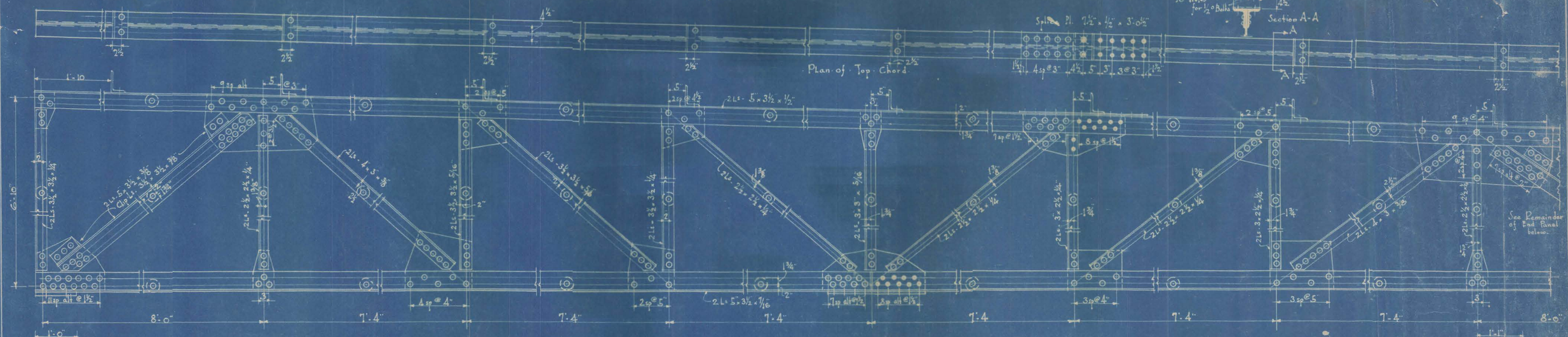
· DETAIL · OF · PASSAGE · BETWEEN · OLD · AND · NEW · BLDG · ½" Scale.

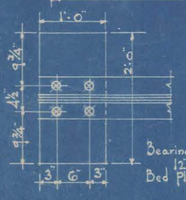
· DETAIL · OF · WEST · STAIR ·
½" Scale.

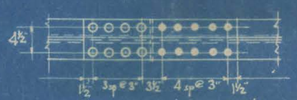
· DETAIL · OF · MAIN · STAIR ·
½" Scale.

· HIGH · SCHOOL · BUILDING · A
· CAMBRIDGE · NEBRASKA ·
· DEUTTLER · & · ARNOLD ·
· ARCHITECTS · & · ENGINEERS ·
· 405-10 Grain Exchange Bldg. Sioux City

2613 - 8









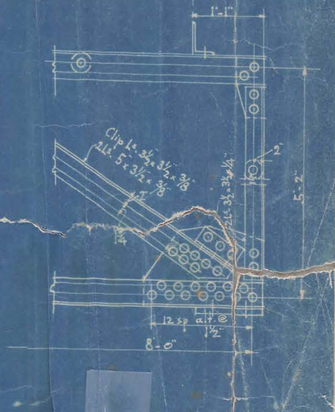
Note; If original roof framing plan is accepted provide 2"x6" nailing strips on top chords of all trusses to receive roof joists. Nailing strips bolted @ 4'-0" o.c. as detailed.

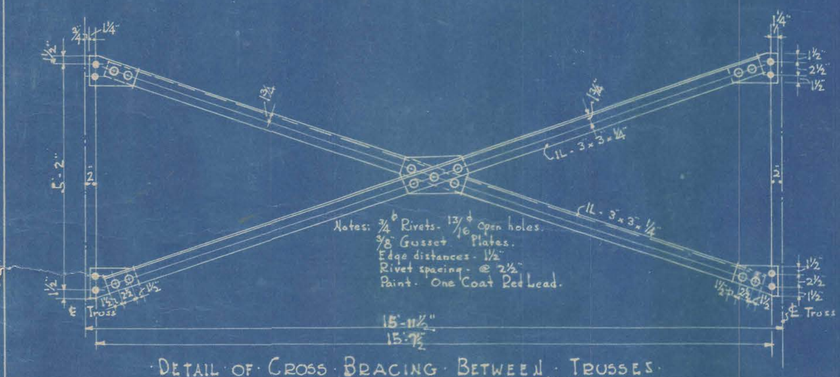
If Alternate roof framing plan is accepted, nailing strips shall be omitted and purlin Clip L's and Wood purlins used instead.

Details - Trusses T1

3 Req'd.

- Over all Length = 60'-4"
- Scales; ¢'s @ 1½" = 1'-0" Details @ ¾" = 1'-0"
- Gusset Plates - ½" thick.
- ¾" ø Rivets - 13/16 ø Open holes.
- Rivet spacing @ 2½" unless otherwise noted
- Edge distances 1½"
- Paint One shop coat red lead.





Detail of Cross Bracing Between 11 Trusses

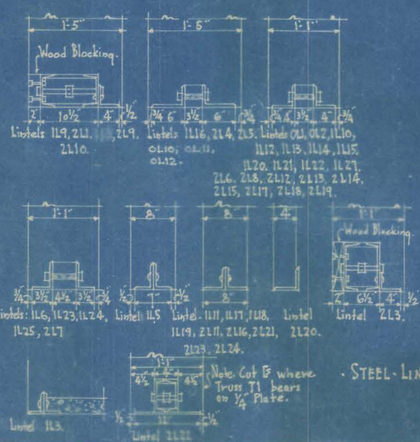
2 Req'd. ℄'s @ ½" Scale. Details @ ¾" Scale.

Steel Lintel Schedule

Total No.	Mark	Section	Length	Wall Thickness
2	OL1	2 L's - 4" x 4" x 5/16"	4'-8"	1'-1"
2	OL2	2 L's - 4" x 4" x 5/16"	4'-2"	1'-1"
1	OL10	2 L's - 4" x 6" x 3/8"	4'-4"	1'-5"
1	IL3	2 L's - 4" x 3" x 5/16"	4'-8"	1'-1"
1	IL5	2 L's - 5" x 3½" x 3/8"	7'-6"	8"
2	IL6	2 L's - 5" x 3½" x 7/16"	6'-8"	1'-1"
1	IL9	2 Pl's 6"x8.2# + 1 L - 4"x4" x 5/16"	9'-4"	1'-5"
6	IL10	2 L's - 4" x 4" x 5/16"	4'-6"	1'-1"
3	IL11	2 L's - 4" x 4" x 5/16"	2'-9"	8"
7	IL12	2 L's - 4" x 4" x 5/16"	2'-9"	1'-1"
2	IL13	2 L's - 4" x 4" x 5/16"	4'-6"	1'-1"
3	IL14	2 L's - 4" x 4" x ¼"	1'-9"	1'-1"
4	IL15	2 L's - 6" x 4" x 3/8"	8'-4"	1'-1"
1	IL16	2 L's - 4" x 6" x 3/8"	4'-0"	1'-5"
3	IL17	2 L's - 4" x 4" x 5/16"	3'-6"	8"
1	IL18	2 L's - 4" x 4" x 5/16"	3'-8"	8"
1	IL19	2 L's - 4" x 4" x 5/16"	4'-10"	8"
3	IL20	2 L's - 4" x 4" x 5/16"	3'-8"	1'-1"
7	IL21	2 L's - 4" x 4" x 5/16"	4'-0"	1'-1"
4	IL22	2 L's - 4" x 4" x 3/8"	4'-10"	1'-1"
1	IL23	2 L's - 5" x 3½" x 3/8"	6'-8"	1'-1"
1	IL24	2 L's - 5" x 3½" x 3/8"	7'-10"	1'-1"
2	IL25	2 L's - 5" x 3½" x 3/8"	6'-4"	1'-1"
2	IL27	2 L's - 4" x 4" x 3/8"	4'-8"	1'-1"
11	2L1	2 Pl's - 9"x13.4# + 1 L - 4"x4"x 3/8"	11'-8"	1'-5"
1	2L3	2 Pl's - 9"x13.4# + 1 L - 4"x4"x 3/8"	10'-6"	1'-1"
1	2L4	2 L's - 4"x6" x 3/8"	5'-0"	1'-5"
5	2L5	2 L's - 4"x6" x 3/8"	4'-6"	1'-5"
1	2L6	2 L's - 6" x 4" x 3/8"	9'-0"	1'-1"
2	2L7	2 L's - 5" x 3½" x 3/8"	7'-0"	1'-1"
4	2L8	2 L's - 6" x 4" x 3/8"	8'-2"	1'-1"
2	2L9	2 Pl's - 9"x13.4# + 1 L - 4"x4"x 3/8"	11'-6"	1'-5"
4	2L10	2 Pl's - 9"x13.4# + 1 L - 4"x4"x 5/16"	9'-0"	1'-5"
3	2L11	2 L's - 4" x 4" x 5/16"	3'-8"	8"
5	2L12	2 L's - 4" x 4" x 5/16"	4'-6"	1'-1"

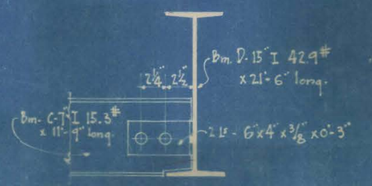
Steel Lintel Schedule (Cont'd)

Total No.	Mark	Section	Length	Wall Thickness
10	2L13	2 L's - 4" x 4" x ¼"	2'-10"	1'-1"
2	2L14	2 L's - 6" x 4" x 3/8"	8'-3"	1'-1"
2	2L15	2 L's - 4" x 4" x ¼"	2'-4"	1'-1"
1	2L16	2 L's - 4" x 4" x ¼"	3'-0"	8"
2	2L17	2 L's - 4" x 4" x 3/8"	5'-8"	1'-1"
1	2L18	2 L's - 4" x 4" x 3/8"	5'-0"	1'-1"
1	2L19	2 L's - 4" x 4" x 5/16"	3'-6"	1'-1"
1	2L20	1 L - 4" x 4" x 5/16"	2'-8"	4"
1	2L21	2 L's - 4" x 4" x 5/16"	4'-8"	8"
1	2L22	2 Pl's 6"x8.2# + ¼"x12" Plate	7'-6"	1'-1"
1	2L23	2 L's - 4" x 4" x 5/16"	4'-6"	8"
2	2L24	2 L's - 4" x 4" x 5/16"	4'-6"	8"
1	OL11	2 L's - 4" x 6" x 7/16"	6'-0"	1'-5"
1	OL12	2 L's - 4" x 6" x 3/8"	5'-4"	1'-5"



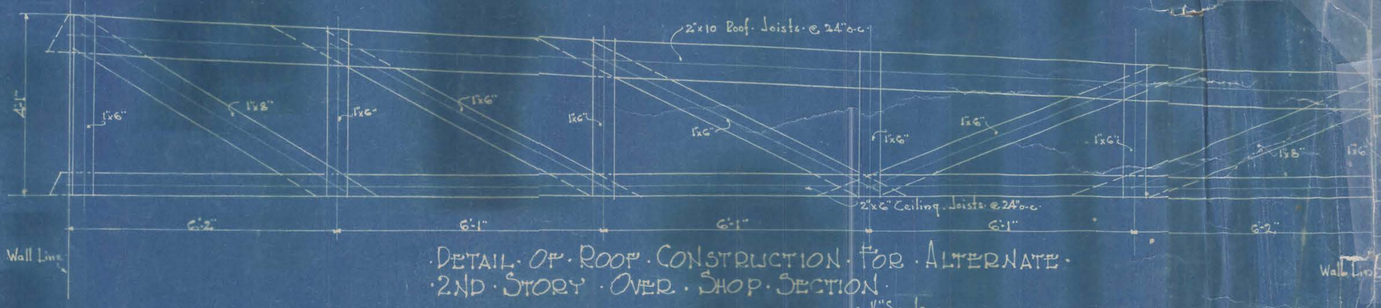
Steel Lintel Details

¾" Scale.



Detail of Connection Bm. C to Bm. D

½" Scale.



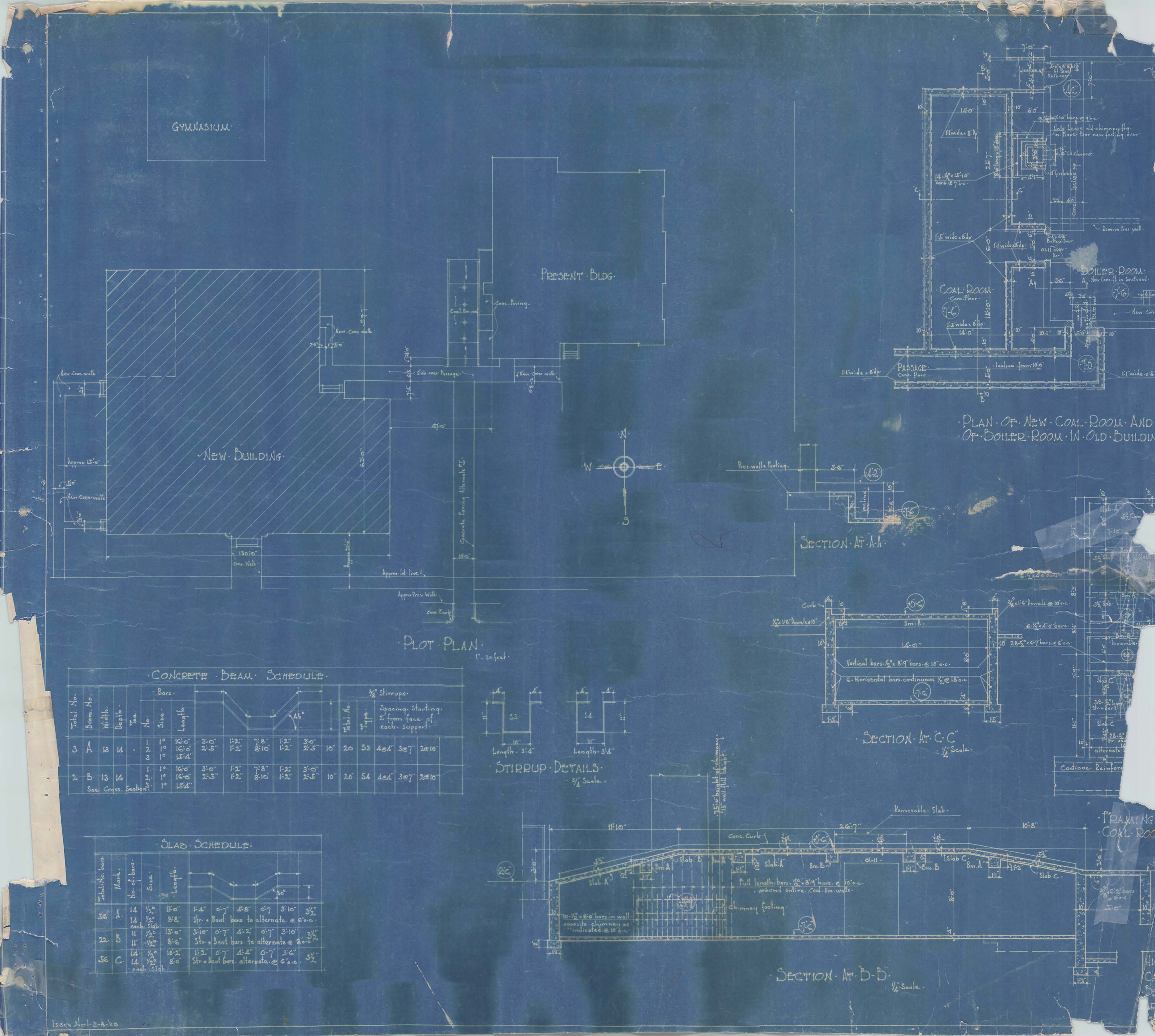
Detail of Roof Construction for Alternate 2nd Story over Shop Section

½" Scale.

Note: This detail is typical for construction of roof over all sections where joists are trussed. See "Roof Framing Plan" for different lengths of spans. See "Cross Section" for number of Panels required for each truss.

High School Building at Cambridge Nebraska
Peuttler & Arnold
Architects & Engineers
40-10 Grain Exchange Bldg. Sioux City Iowa

Issue No. 1 2-8-28



CONCRETE BEAM SCHEDULE

Total No.	Beam No.	Width	Depth	Tee	Bars No.	Bars Size	Bars Length	45°						⅜" Stirrups Total No.	Type	Spacing Starting 2" from face of each support		
3	A	13	14	-	1 2 3	1° 1° 1°	16'-0" 16'-0" 15'-4"	3'-0" 2'-5"	1'-2" 1'-2"	7'-8" 8'-10"	1'-2" 1'-2"	3'-0" 2'-5"	10"	20	S3	4@4"	3@7"	2@10"
2	B	13	14		1 2 3	1° 1° 1°	16'-0" 16'-0" 15'-4"	3'-0" 2'-5"	1'-2" 1'-2"	7'-8" 8'-10"	1'-2" 1'-2"	3'-0" 2'-5"	10"	20	S4	4@4"	3@7"	2@10"

See Cross Section

STIRRUP DETAILS

¾" Scale

SLAB SCHEDULE

Total No. bars	Mark	No. of bars	Size	Length	30°					
56	A	14 14 each Slab	½° ½°	11'-0" 8'-8"	1'-4" Str. + Bent bars to alternate @ 6" o.c.	0'-7"	4'-8"	0'-7	3'-10"	3½"
22	B	11 11	½° ½°	13'-0" 8'-6"	3'-10" Str. + Bent bars to alternate @ 8" o.c.	0'-7"	4'-2"	0'-7"	3'-10"	3½"
56	C	14 14 each Slab	½° ½°	10'-2" 8'-0"	1'-2" Str. + Bent bars alternate @ 6" o.c.	0'-7"	4'-4"	0'-7"	3'-6"	3½"

Issue Nov. 2-8-'26

· HEAD ·

· MEETING · RAIL ·

· JAMB ·

· MULLION ·

· SILL ·

· TYPICAL · DETAILS · OF · DOUBLE ·
· HUNG · SASH · WITH · METAL · TRIM ·
· 3"=Scale ·

· HEAD ·

· LANDING ·

· SHOP ·

· DETAIL · OF · VENTILATOR ·
· BASE · AND · SLEEVE ·
· 1½"=Scale ·

· CONNECTION · BETWEEN · C.I. ·
· DUCTS · AND · CONCRETE · DUCT · WALLS ·
· 1½"=Scale ·

Issue No. 1 - 2-8-26

2613-1

GYMNASIUM

6" Clay Tile Sewer - Alternate

Brick Manhole 5'-0" Diam.

6" Clay Tile Sewer Connected to Old Sewer.

4" Cast iron Sewer.

PRESENT BLDG.

Conc. Paving.

Coal Chute

New Conc. walk

Connect to Sewer from New Bldg.

New Conc. walk

Slab over Passage.

New Conc. walk

47'-0"

NEW BUILDING

approx. 15'-0"

New Conc. walk

130'-0"

Conc. Walk

Conc. Paving Alternate

Approx. 22'-0"

10'-0"

Approx. lot line

Approx Pres. Walk

Conc. Curb

This dimension approx. 60'-0" to Sewer in street

N

W

E

S

PLOT PLAN

1" = 20 feet

CONCRETE BEAM SCHEDULE

Total No.	Beam No.	Width	Depth	Ties	Bars No.	Bars Size	Bars Length	3/8" Stirrups Total No.	3/8" Stirrups Type	3/8" Stirrups Spacing. Starting 2" from face of each Support.
3	A	13	14	-	1	1"	16'-0"	20	S3	4@4" 3@7" 2@10"
					2	1"	16'-0"			
					3	1"	15'-4"			
2	B	13	14		1	1"	16'-0"	20	S4	4@4" 3@7" 2@10"
					2	1"	16'-0"			
					3	1"	15'-4"			

See Cross Section

STIRRUP DETAILS

3/4" Scale.

S3: 11" high, 4" and 4", Length 3'-4"

S4: 11" high, 4" and 4", Length 3'-4"

SLAB SCHEDULE

Total No. bars	Mark	No. of bars	Size	Length	Str. + Bent bars to alternate @ 6" o.c.
56	A	14	1/2"	11'-0"	1'-4" 0'-7" 4'-8" 0'-7" 3'-10" 3 1/2"
		14 each Slab	1/2"	8'-8"	
22	B	11	1/2"	13'-0"	3'-10" 0'-7" 4'-2" 0'-7" 3'-10" 3 1/2"
		11	1/2"	8'-6"	
36	C	14	1/2"	10'-2"	1'-2" 0'-7" 4'-4" 0'-7" 3'-6" 3 1/2"
		14 each Slab	1/2"	8'-0"	

Issued March 2-8-'28

Pres. wall & footing

3'-6"

Inclined

7'-6"

SECTION AT A-A

Curb

10"-C

Bm. B

14'-0"

Vertical bars 1/2" x 8'-9" bars @ 10" o.c.

6 Horizontal bars continuous 1/2" @ 18" o.c.

3/8" x 1'-6" Dowels @ 10" o.c.

6-1/2" x 4'-0" bars

28-3/4" x 6'-7" bars @ 6" o.c.

SECTION AT C-C

1/4" Scale.

7'-0"

Window Sill

21 Panel 0'-11 over

5'-6"

14'-0"

6'-0"

9-3/4" x 7'-10" bars @ 9" o.c.

Note: Leave old chimney in place. Pour new footing over

Fl wide x 8'-9" dp.

3'-6" Cil Cleanout

4" firebrick

14-3/4" x 15'-10" Bars @ 7" o.c.

Boiler Room

Conc.

Fl wide x 8" dp.

Bulkhead

Remove Pres. wall

Fl wide x 8" dp.

Bulkhead Door

0'-11 over

COAL ROOM

Conc. floor

7'-6"

1'-3" wide x 8" dp.

14'-0"

BOILER ROOM

A New Conc. fl. in South end

7'-6"

up 4 Conc. Steps

PUMP ROOM

5'-0"

New Conc.

Fl wide x 8" dp.

PASSAGE

Conc. floor

Inclina. from 10'-0"

9'-6"

Fl wide x 8" dp.

PLAN OF NEW COAL ROOM AND REMODELING OF BOILER ROOM IN OLD BUILDING

1/8" Scale.

Slab A

5-1/2" Conc. Slab

28-1/2" bars @ 6" o.c. Str. + bent bars to alternate.

Bm. A

Slab B

5-1/2" Slab

32-1/2" bars @ 8" o.c. Str. + bent bars to alternate.

Bm. B

Removable Slab

28-1/2" bars @ 6" o.c. Str. + bent bars to alternate. See schedule

12-1/2" x 7'-2" bars @ 6" o.c.

Slab C

5-1/2" Slab

6-1/2" x 4'-0" bars

28-1/2" bars @ 6" o.c. Str. + bent bars to alternate

alternate See schedule

Continue Reinforcing 3/8" x 6'-2" bars @ 6" o.c.

4" Slab

17-3/8" x 11'-0" bars @ 7" o.c.

FRAMING PLAN OVER COAL ROOM & PASSAGE

1/8" Scale.

Removable Slab

11'-10"

2'-6"

3'-0"

Conc. Curb

2'-7"

10'-8"

Slab A

Slab B

Bm. A

Bm. B

Slab C

Pail length bars 1/2" x 8'-9" bars @ 10" o.c. around entire Coal Rm. walls

Chimney footing

10-1/2" x 6'-0" bars in wall opposite Chimney as indicated @ 10" o.c.

7'-6"

3/8" x 6'-2" bars @ 6" o.c.

5'-0"

SECTION AT B-B

1/4" Scale.

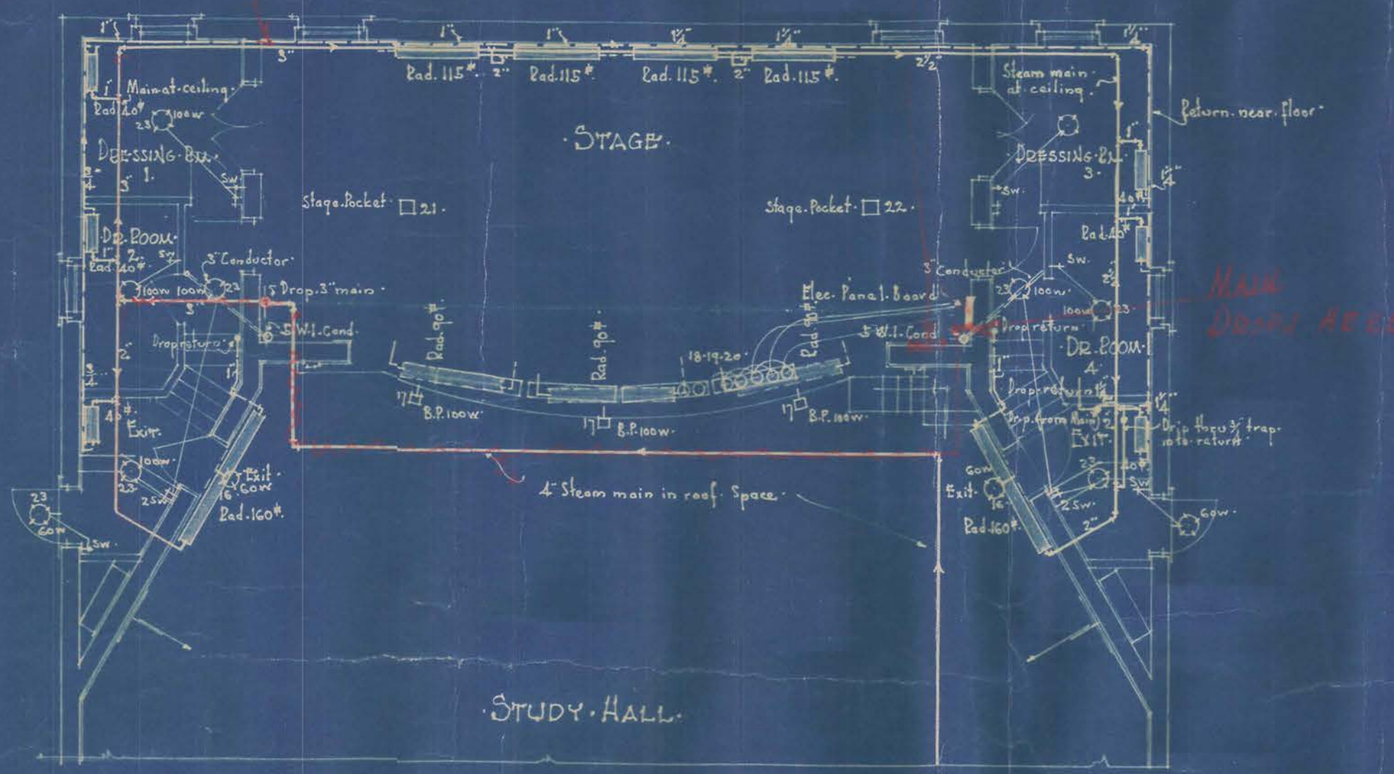
HIGH SCHOOL BUILDING AT CAMBRIDGE NEBRASKA

BEUTTLER & ARNOLD

ARCHITECTS & ENGINEERS

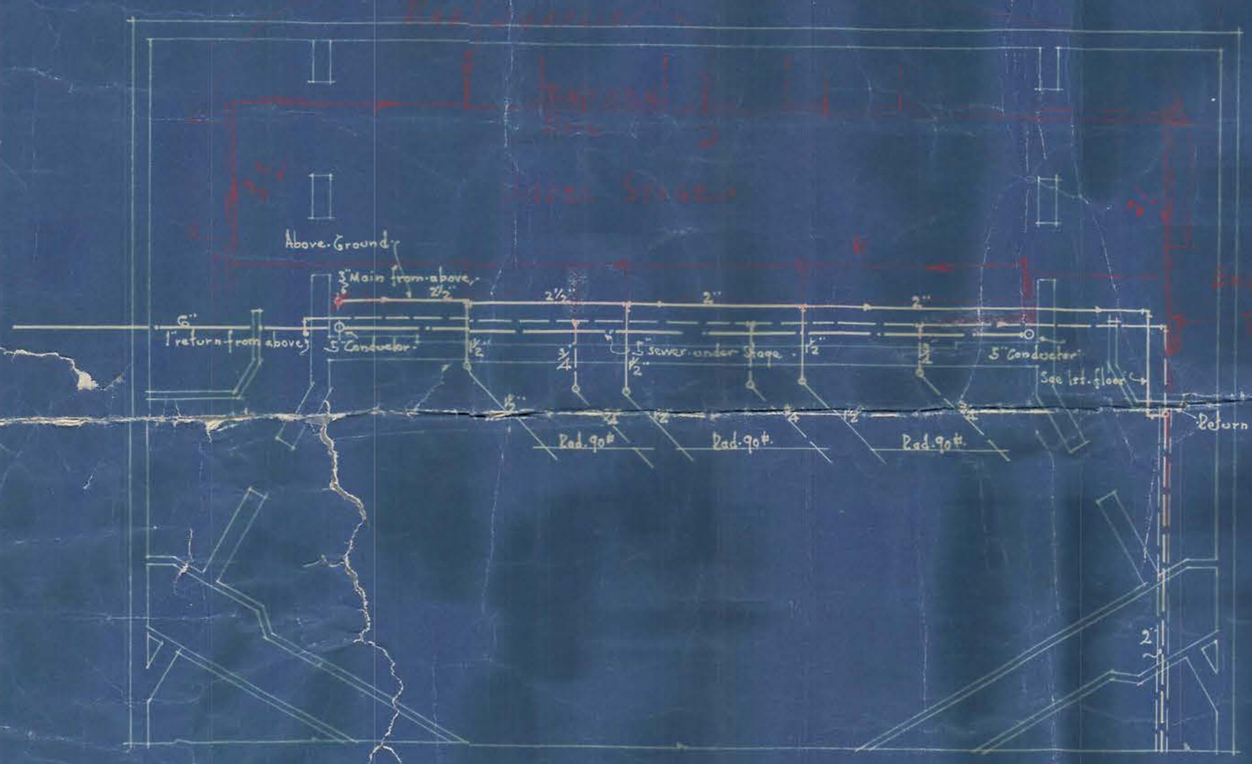
403-10 Grain Exchange, Sioux City, Ia.

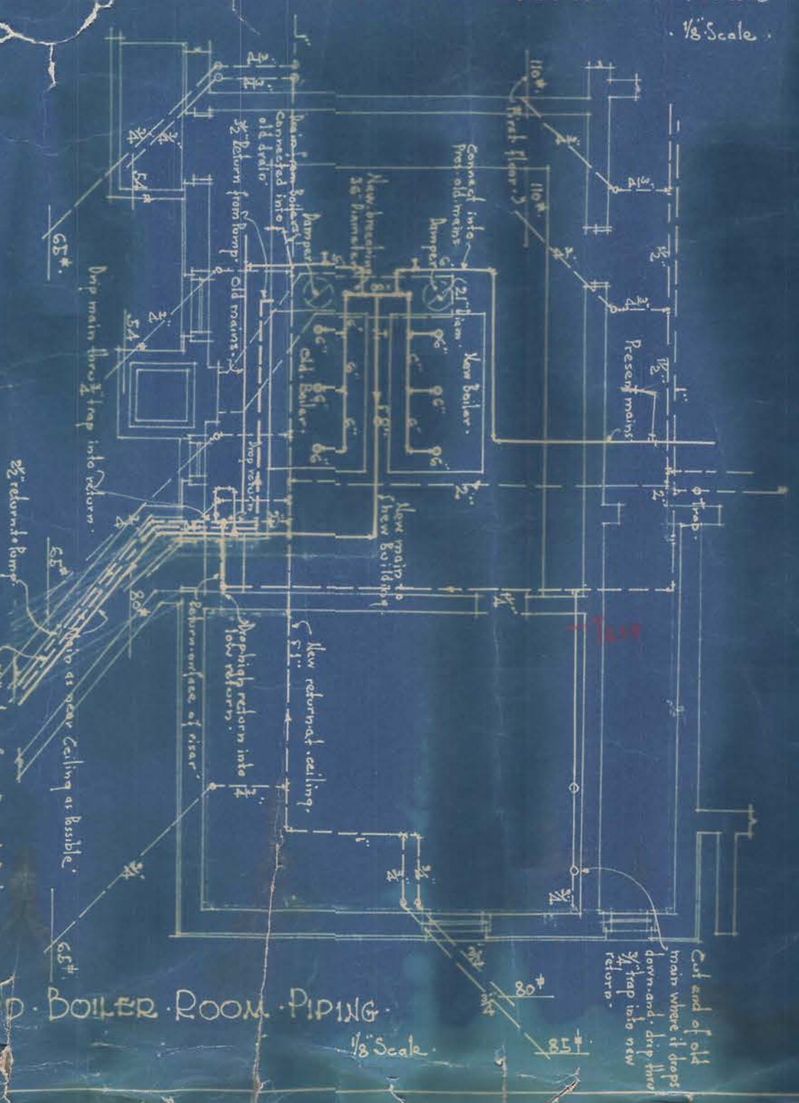
2613



REVISED FIRST FLOOR PIPING.

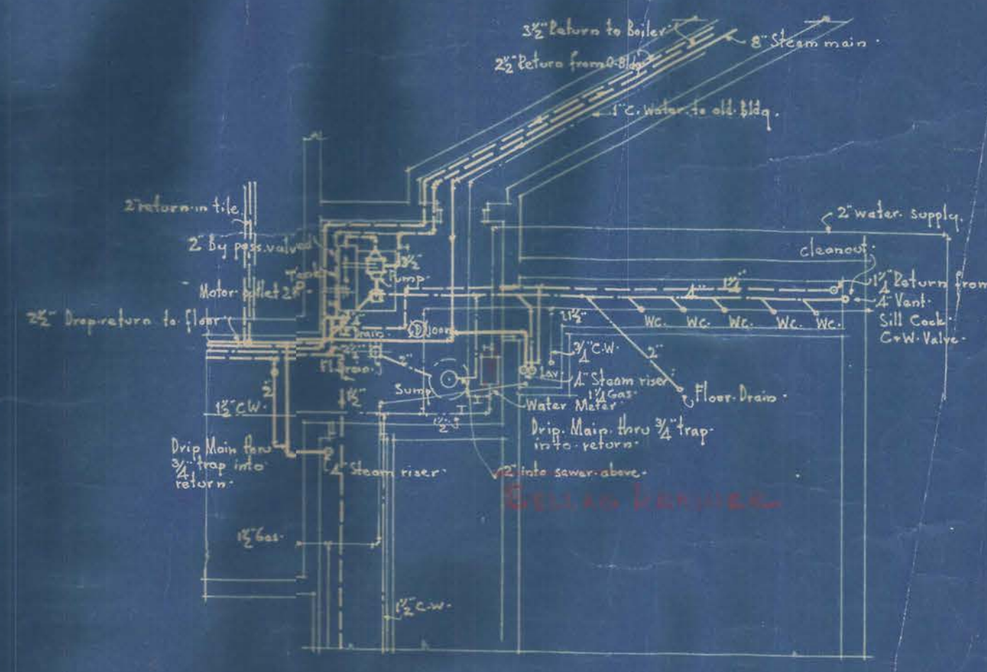
1/8" Scale.





REVISED BASEMENT PIPING.

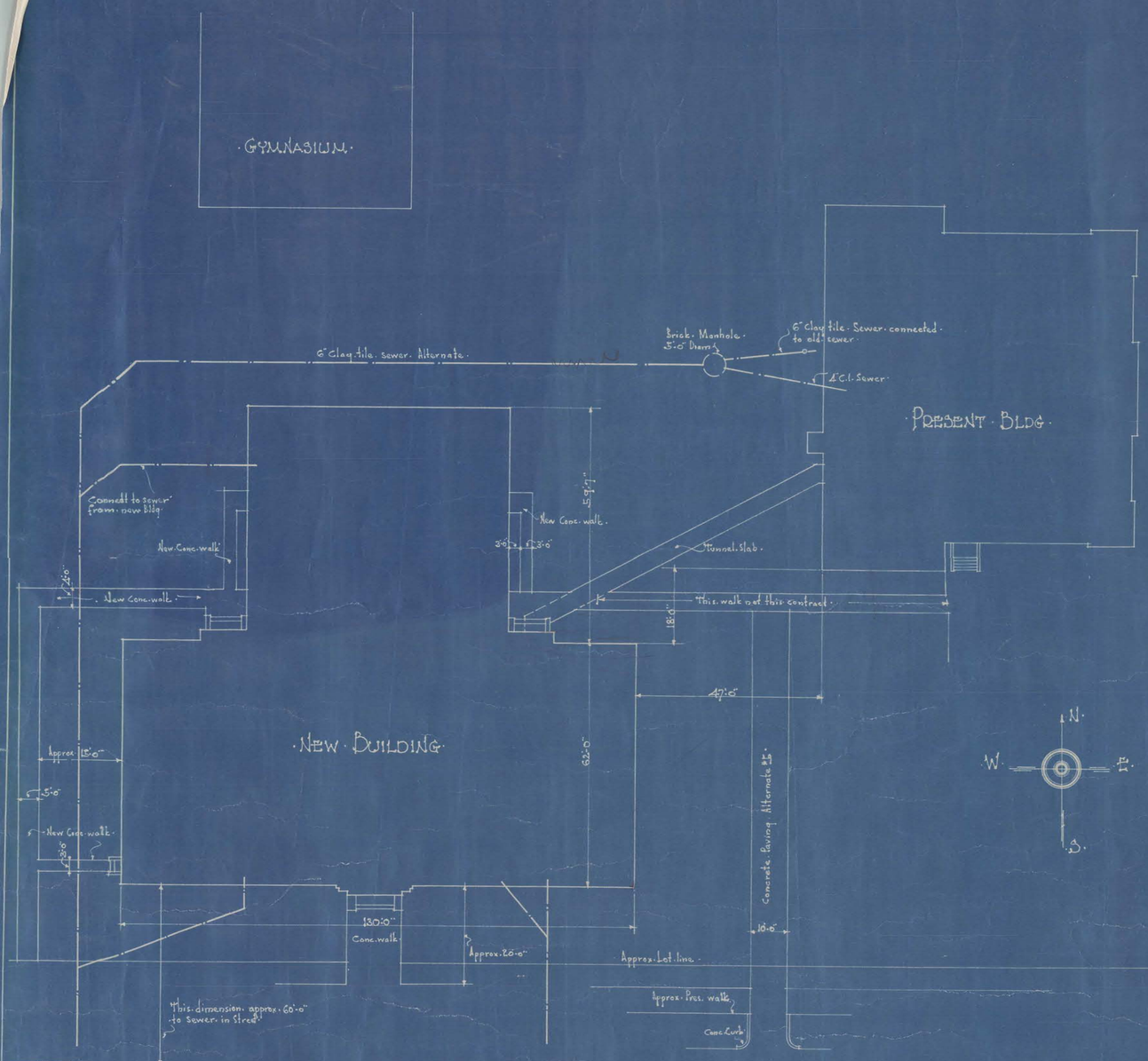
1/8" Scale.



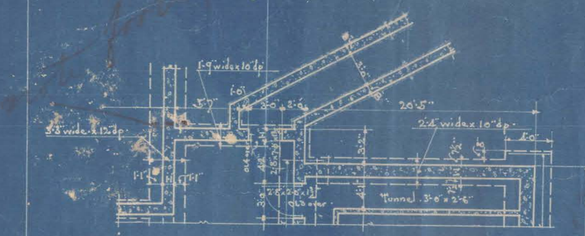
REVISED PUMP ROOM.

HIGH SCHOOL BUILDING AT
CAMBRIDGE NEBRASKA
BEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
405-10 Grain Exchg. Bldg. Sioux City Ia.

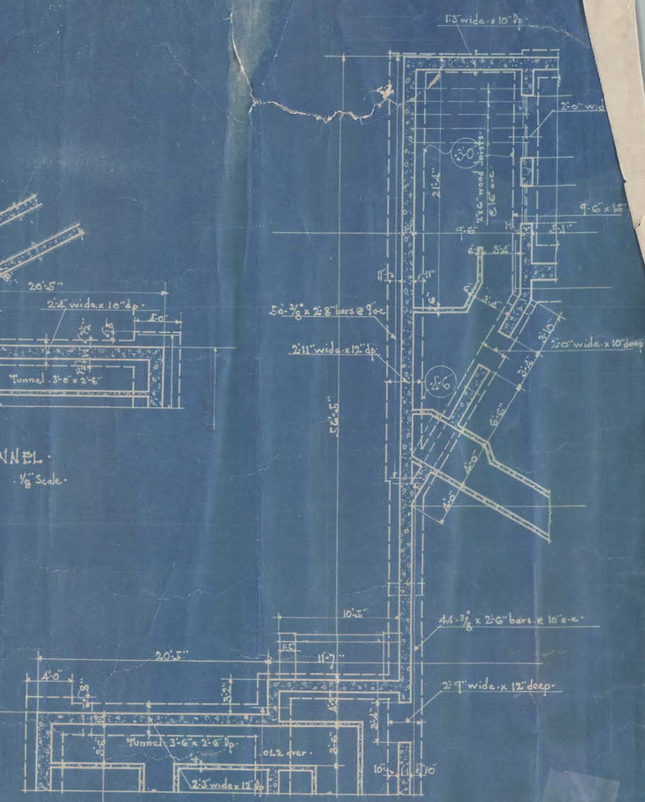
Issued 3-17-26



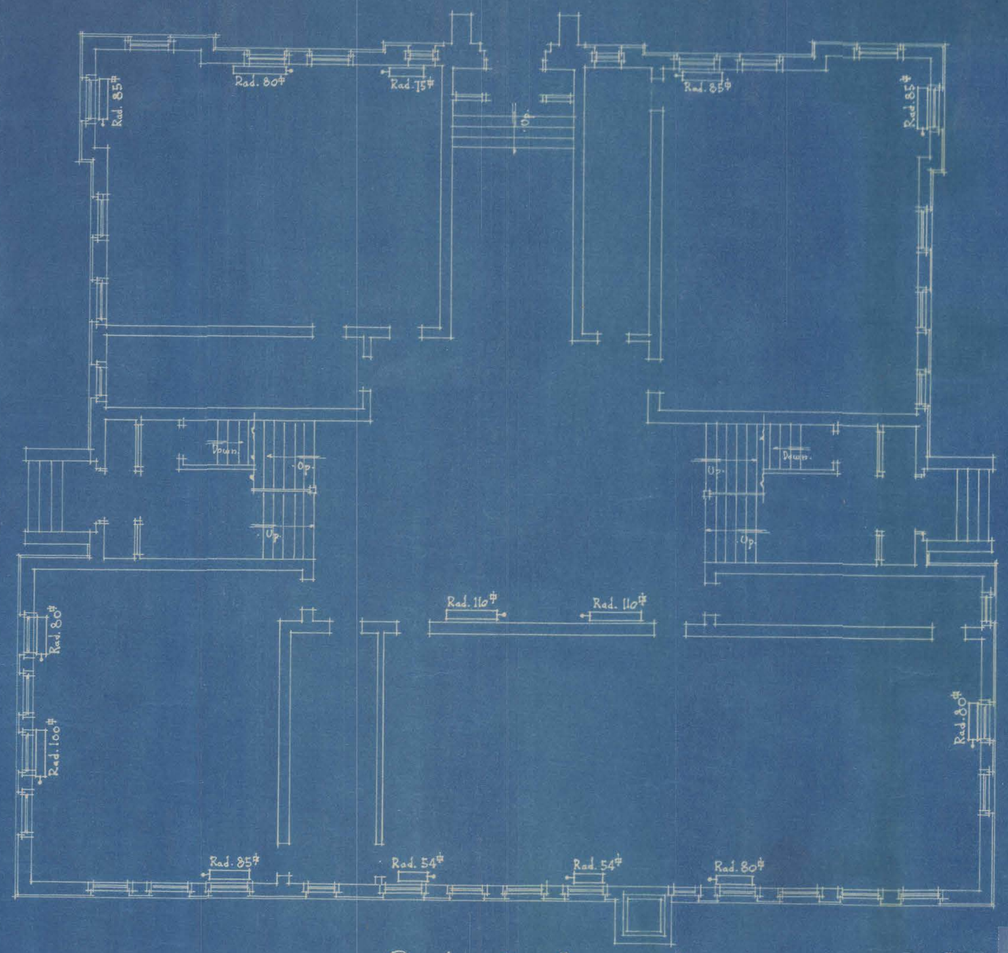
REVISED · PLOT · PLAN ·
1" - 20 Feet



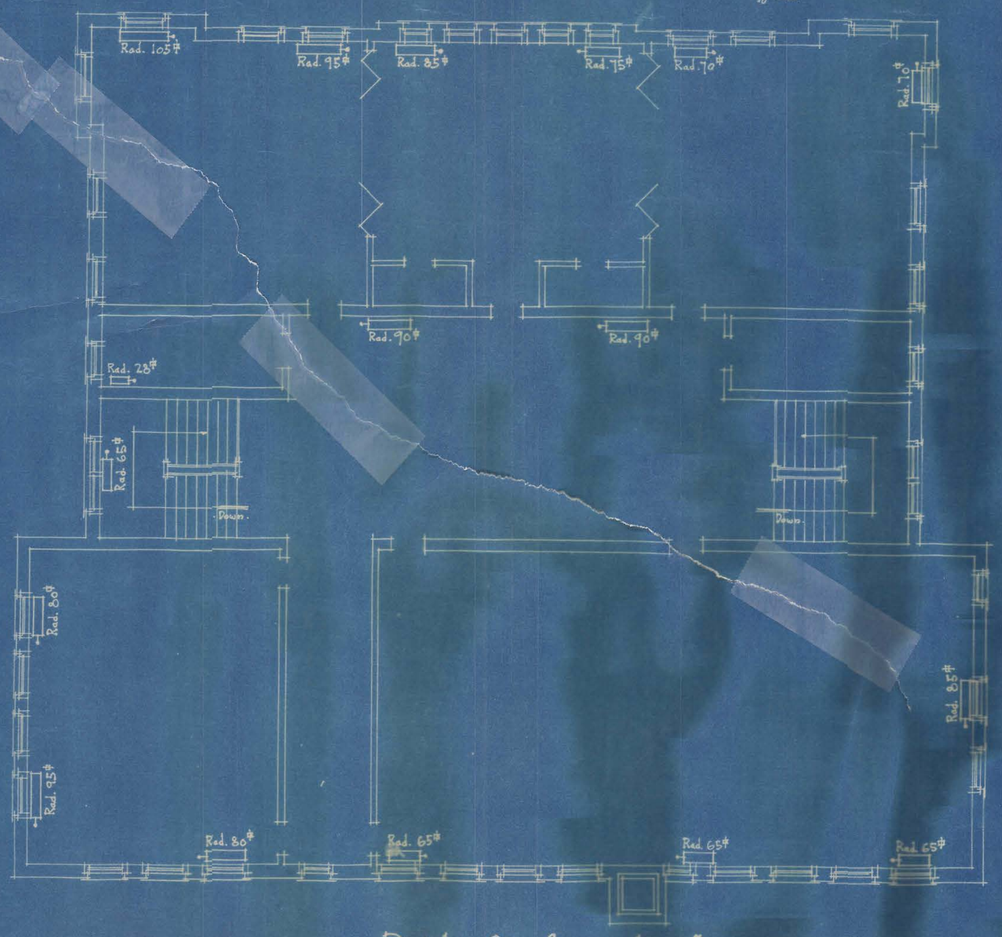
REVISED · PLAN · OF · TUNNEL ·
1/8" Scale ·


11'3" wide x 10" Dp
2'-0" wide
30
2'-6" wood beams @ 16" c-c
9'-6" x 15
9'-6"
5'-4"
5'-4"
5'-4

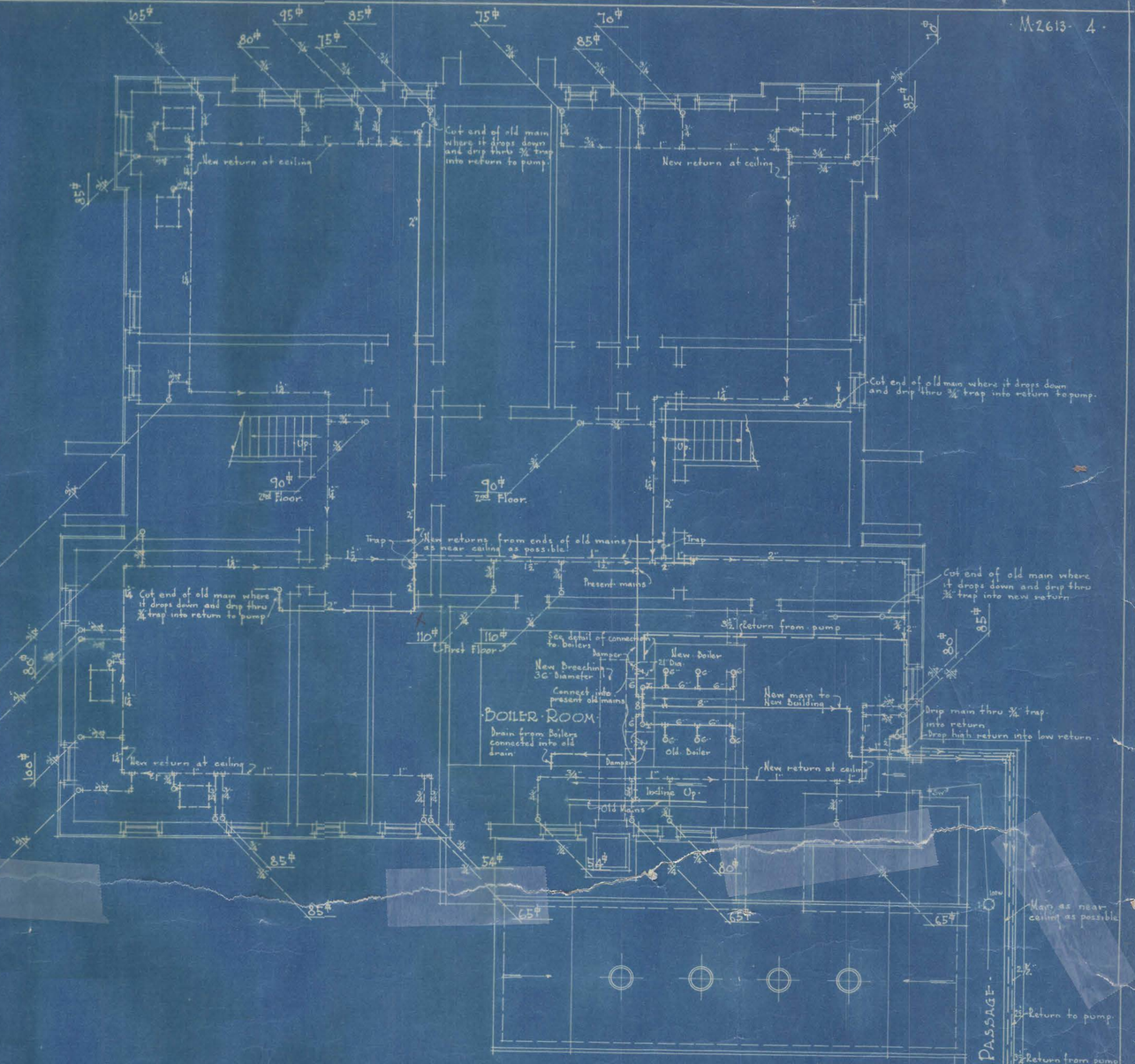
M-2613-4



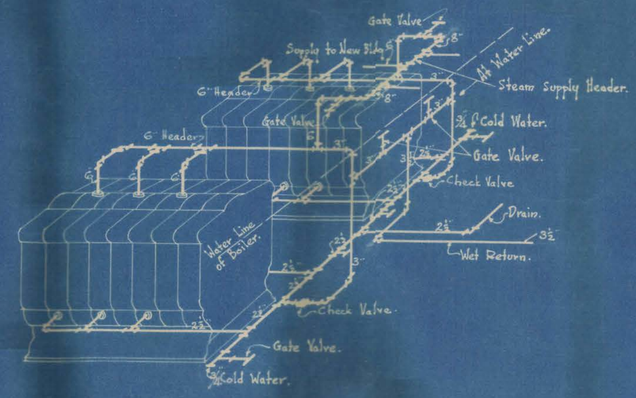
· PLAN · OF · FIRST · FLOOR ·
· 1/8" Scale ·



· PLAN · OF · SECOND · FLOOR ·
· 1/8" Scale ·



· PLAN · OF · BASEMENT ·
· 1/8" Scale ·



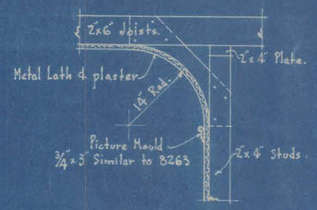
· DETAIL · SHOWING · METHOD · OF ·
· CONNECTIONS · TO · BOILER ·

· HIGH · SCHOOL · P
· CAMBRIDGE · N
· BEUTTLER · &
· ARCHITECTS ·
· 405 · to Grain Exc

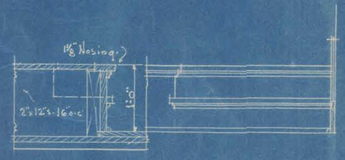
Issue No-1-2-13-'26

2613- 4

PLATFORM
Wood floor + base.
MUSIC ROOM
Wood floor + base.
UPPER STAGE
UPPER STUDY HALL
Wood Cornice + Beams See detail.
Steel Ceiling lights. See detail.
WEST STAIR HALL
LANDING
COOKING LABORATORY
Wood floor + base.
PRINCIPALS OFFICE
Wood floor + base.
BOYS TOILET
CORRIDOR
Terrazzo floor + base.
PROJECTION BOOTH
GIRLS TOILET
STORE ROOM 3
Shelves
LECTURE ROOM
Wood floor + base.
STORAGE 1
Wood floor + base.
Shelves
STORAGE 2
Wood floor + base.
Shelves
DINING ROOM
Wood floor + base.
CLASS ROOM 5
Wood floor + base.
CLASS ROOM 6
Wood floor + base.
EDITORS ROOM
Wood floor + base.
CLASS ROOM 7
Wood floor + base.
AGRICULTURE AND BOTANY LABORATORY
Wood floor + base.
PHYSICS & GENERAL SCIENCE LABORATORY
Wood floor + base.
Stone Coping.
Comp. Roof.
Composition roof.
Slate roof.
Tile roof.
Conc. Cap.
Roof Drain 4" outlet.
Vitrified tile Coping.
Composition Roof.
Wood Girder Beams over.
Steel Ceiling lights. See detail.
Trusses over.
Vent Study Hall.
Vent Class Rm 1.
Vent Class Rm 2.
Vent Class Rm 3.
Vent Class Rm 4.
Vent Class Rm 5.
Vent Class Rm 6.
Vent Class Rm 7.
Vent Class Rm 8.
Vent Class Rm 9.
Vent Class Rm 10.
Vent Class Rm 11.
Vent Class Rm 12.
Vent Class Rm 13.
Vent Class Rm 14.
Vent Class Rm 15.
Vent Class Rm 16.
Vent Class Rm 17.
Vent Class Rm 18.
Vent Class Rm 19.
Vent Class Rm 20.
Vent Class Rm 21.
Vent Class Rm 22.
Vent Class Rm 23.
Vent Class Rm 24.
Vent Class Rm 25.
Vent Class Rm 26.
Vent Class Rm 27.
Vent Class Rm 28.
Vent Class Rm 29.
Vent Class Rm 30.
Vent Class Rm 31.
Vent Class Rm 32.
Vent Class Rm 33.
Vent Class Rm 34.
Vent Class Rm 35.
Vent Class Rm 36.
Vent Class Rm 37.
Vent Class Rm 38.
Vent Class Rm 39.
Vent Class Rm 40.
Vent Class Rm 41.
Vent Class Rm 42.
Vent Class Rm 43.
Vent Class Rm 44.
Vent Class Rm 45.
Vent Class Rm 46.
Vent Class Rm 47.
Vent Class Rm 48.
Vent Class Rm 49.
Vent Class Rm 50.
Vent Class Rm 51.
Vent Class Rm 52.
Vent Class Rm 53.
Vent Class Rm 54.
Vent Class Rm 55.
Vent Class Rm 56.
Vent Class Rm 57.
Vent Class Rm 58.
Vent Class Rm 59.
Vent Class Rm 60.
Vent Class Rm 61.
Vent Class Rm 62.
Vent Class Rm 63.
Vent Class Rm 64.
Vent Class Rm 65.
Vent Class Rm 66.
Vent Class Rm 67.
Vent Class Rm 68.
Vent Class Rm 69.
Vent Class Rm 70.
Vent Class Rm 71.
Vent Class Rm 72.
Vent Class Rm 73.
Vent Class Rm 74.
Vent Class Rm 75.
Vent Class Rm 76.
Vent Class Rm 77.
Vent Class Rm 78.
Vent Class Rm 79.
Vent Class Rm 80.
Vent Class Rm 81.
Vent Class Rm 82.
Vent Class Rm 83.
Vent Class Rm 84.
Vent Class Rm 85.
Vent Class Rm 86.
Vent Class Rm 87.
Vent Class Rm 88.
Vent Class Rm 89.
Vent Class Rm 90.
Vent Class Rm 91.
Vent Class Rm 92.
Vent Class Rm 93.
Vent Class Rm 94.
Vent Class Rm 95.
Vent Class Rm 96.
Vent Class Rm 97.
Vent Class Rm 98.
Vent Class Rm 99.
Vent Class Rm 100.
Vent Class Rm 101.
Vent Class Rm 102.
Vent Class Rm 103.
Vent Class Rm 104.
Vent Class Rm 105.
Vent Class Rm 106.
Vent Class Rm 107.
Vent Class Rm 108.
Vent Class Rm 109.
Vent Class Rm 110.
Vent Class Rm 111.
Vent Class Rm 112.
Vent Class Rm 113.
Vent Class Rm 114.
Vent Class Rm 115.
Vent Class Rm 116.
Vent Class Rm 117.
Vent Class Rm 118.
Vent Class Rm 119.
Vent Class Rm 120.
Vent Class Rm 121.
Vent Class Rm 122.
Vent Class Rm 123.
Vent Class Rm 124.
Vent Class Rm 125.
Vent Class Rm 126.
Vent Class Rm 127.
Vent Class Rm 128.
Vent Class Rm 129.
Vent Class Rm 130.
Vent Class Rm 131.
Vent Class Rm 132.
Vent Class Rm 133.
Vent Class Rm 134.
Vent Class Rm 135.
Vent Class Rm 136.
Vent Class Rm 137.
Vent Class Rm 138.
Vent Class Rm 139.
Vent Class Rm 140.
Vent Class Rm 141.
Vent Class Rm 142.
Vent Class Rm 143.
Vent Class Rm 144.
Vent Class Rm 145.
Vent Class Rm 146.
Vent Class Rm 147.
Vent Class Rm 148.
Vent Class Rm 149.
Vent Class Rm 150.
Vent Class Rm 151.
Vent Class Rm 152.
Vent Class Rm 153.
Vent Class Rm 154.
Vent Class Rm 155.
Vent Class Rm 156.
Vent Class Rm 157.
Vent Class Rm 158.
Vent Class Rm 159.
Vent Class Rm 160.
Vent Class Rm 161.
Vent Class Rm 162.
Vent Class Rm 163.
Vent Class Rm 164.
Vent Class Rm 165.
Vent Class Rm 166.
Vent Class Rm 167.
Vent Class Rm 168.
Vent Class Rm 169.
Vent Class Rm 170.
Vent Class Rm 171.
Vent Class Rm 172.
Vent Class Rm 173.
Vent Class Rm 174.
Vent Class Rm 175.
Vent Class Rm 176.
Vent Class Rm 177.
Vent Class Rm 178.
Vent Class Rm 179.
Vent Class Rm 180.
Vent Class Rm 181.
Vent Class Rm 182.
Vent Class Rm 183.
Vent Class Rm 184.
Vent Class Rm 185.
Vent Class Rm 186.
Vent Class Rm 187.
Vent Class Rm 188.
Vent Class Rm 189.
Vent Class Rm 190.
Vent Class Rm 191.
Vent Class Rm 192.
Vent Class Rm 193.
Vent Class Rm 194.
Vent Class Rm 195.
Vent Class Rm 196.
Vent Class Rm 197.
Vent Class Rm 198.
Vent Class Rm 199.
Vent Class Rm 200.
Vent Class Rm 201.
Vent Class Rm 202.
Vent Class Rm 203.
Vent Class Rm 204.
Vent Class Rm 205.
Vent Class Rm 206.
Vent Class Rm 207.
Vent Class Rm 208.
Vent Class Rm 209.
Vent Class Rm 210.
Vent Class Rm 211.
Vent Class Rm 212.
Vent Class Rm 213.
Vent Class Rm 214.
Vent Class Rm 215.
Vent Class Rm 216.
Vent Class Rm 217.
Vent Class Rm 218.
Vent Class Rm 219.
Vent Class Rm 220.
Vent Class Rm 221.
Vent Class Rm 222.
Vent Class Rm 223.
Vent Class Rm 224.
Vent Class Rm 225.
Vent Class Rm 226.
Vent Class Rm 227.
Vent Class Rm 228.
Vent Class Rm 229.
Vent Class Rm 230.
Vent Class Rm 231.
Vent Class Rm 232.
Vent Class Rm 233.
Vent Class Rm 234.
Vent Class Rm 235.
Vent Class Rm 236.
Vent Class Rm 237.
Vent Class Rm 238.
Vent Class Rm 239.
Vent Class Rm 240.
Vent Class Rm 241.
Vent Class Rm 242.
Vent Class Rm 243.
Vent Class Rm 244.
Vent Class Rm 245.
Vent Class Rm 246.
Vent Class Rm 247.
Vent Class Rm 248.
Vent Class Rm 249.
Vent Class Rm 250.
Vent Class Rm 251.
Vent Class Rm 252.
Vent Class Rm 253.
Vent Class Rm 254.
Vent Class Rm 255.
Vent Class Rm 256.
Vent Class Rm 257.
Vent Class Rm 258.
Vent Class Rm 259.
Vent Class Rm 260.
Vent Class Rm 261.
Vent Class Rm 262.
Vent Class Rm 263.
Vent Class Rm 264.
Vent Class Rm 265.
Vent Class Rm 266.
Vent Class Rm 267.
Vent Class Rm 268.
Vent Class Rm 269.
Vent Class Rm 270.
Vent Class Rm 271.
Vent Class Rm 272.
Vent Class Rm 273.
Vent Class Rm 274.
Vent Class Rm 275.
Vent Class Rm 276.
Vent Class Rm 277.
Vent Class Rm 278.
Vent Class Rm 279.
Vent Class Rm 280.
Vent Class Rm 281.
Vent Class Rm 282.
Vent Class Rm 283.
Vent Class Rm 284.
Vent Class Rm 285.
Vent Class Rm 286.
Vent Class Rm 287.
Vent Class Rm 288.
Vent Class Rm 289.
Vent Class Rm 290.
Vent Class Rm 291.
Vent Class Rm 292.
Vent Class Rm 293.
Vent Class Rm 294.
Vent Class Rm 295.
Vent Class Rm 296.
Vent Class Rm 297.
Vent Class Rm 298.
Vent Class Rm 299.
Vent Class Rm 300.
Vent Class Rm 301.
Vent Class Rm 302.
Vent Class Rm 303.
Vent Class Rm 304.
Vent Class Rm 305.
Vent Class Rm 306.
Vent Class Rm 307.
Vent Class Rm 308.
Vent Class Rm 309.
Vent Class Rm 310.
Vent Class Rm 311.
Vent Class Rm 312.
Vent Class Rm 313.
Vent Class Rm 314.
Vent Class Rm 315.
Vent Class Rm 316.
Vent Class Rm 317.
Vent Class Rm 318.
Vent Class Rm 319.
Vent Class Rm 320.
Vent Class Rm 321.
Vent Class Rm 322.
Vent Class Rm 323.
Vent Class Rm 324.
Vent Class Rm 325.
Vent Class Rm 326.
Vent Class Rm 327.
Vent Class Rm 328.
Vent Class Rm 329.
Vent Class Rm 330.
Vent Class Rm 331.
Vent Class Rm 332.
Vent Class Rm 333.
Vent Class Rm 334.
Vent Class Rm 335.
Vent Class Rm 336.
Vent Class Rm 337.
Vent Class Rm 338.
Vent Class Rm 339.
Vent Class Rm 340.
Vent Class Rm 341.
Vent Class Rm 342.
Vent Class Rm 343.
Vent Class Rm 344.
Vent Class Rm 345.
Vent Class Rm 346.
Vent Class Rm 347.
Vent Class Rm 348.
Vent Class Rm 349.
Vent Class Rm 350.
Vent Class Rm 351.
Vent Class Rm 352.
Vent Class Rm 353.
Vent Class Rm 354.
Vent Class Rm 355.
Vent Class Rm 356.
Vent Class Rm 357.
Vent Class Rm 358.
Vent Class Rm 359.
Vent Class Rm 360.
Vent Class Rm 361.
Vent Class Rm 362.
Vent Class Rm 363.
Vent Class Rm 364.
Vent Class Rm 365.
Vent Class Rm 366.
Vent Class Rm 367.
Vent Class Rm 368.
Vent Class Rm 369.
Vent Class Rm 370.
Vent Class Rm 371.
Vent Class Rm 372.
Vent Class Rm 373.
Vent Class Rm 374.
Vent Class Rm 375.
Vent Class Rm 376.
Vent Class Rm 377.
Vent Class Rm 378.
Vent Class Rm 379.
Vent Class Rm 380.
Vent Class Rm 381.
Vent Class Rm 382.
Vent Class Rm 383.
Vent Class Rm 384.
Vent Class Rm 385.
Vent Class Rm 386.
Vent Class Rm 387.
Vent Class Rm 388.
Vent Class Rm 389.
Vent Class Rm 390.
Vent Class Rm 391.
Vent Class Rm 392.
Vent Class Rm 393.
Vent Class Rm 394.
Vent Class Rm 395.
Vent Class Rm 396.
Vent Class Rm 397.
Vent Class Rm 398.
Vent Class Rm 399.
Vent Class Rm 400.
Vent Class Rm 401.
Vent Class Rm 402.
Vent Class Rm 403.
Vent Class Rm 404.
Vent Class Rm 405.
Vent Class Rm 406.
Vent Class Rm 407.
Vent Class Rm 408.
Vent Class Rm 409.
Vent Class Rm 410.
Vent Class Rm 411.
Vent Class Rm 412.
Vent Class Rm 413.
Vent Class Rm 414.
Vent Class Rm 415.
Vent Class Rm 416.
Vent Class Rm 417.
Vent Class Rm 418.
Vent Class Rm 419.
Vent Class Rm 420.
Vent Class Rm 421.
Vent Class Rm 422.
Vent Class Rm 423.
Vent Class Rm 424.
Vent Class Rm 425.
Vent Class Rm 426.
Vent Class Rm 427.
Vent Class Rm 428.
Vent Class Rm 429.
Vent Class Rm 430.
Vent Class Rm 431.
Vent Class Rm 432.
Vent Class Rm 433.
Vent Class Rm 434.
Vent Class Rm 435.
Vent Class Rm 436.
Vent Class Rm 437.
Vent Class Rm 438.
Vent Class Rm 439.
Vent Class Rm 440.
Vent Class Rm 441.
Vent Class Rm 442.
Vent Class Rm 443.
Vent Class Rm 444.
Vent Class Rm 445.
Vent Class Rm 446.
Vent Class Rm 447.
Vent Class Rm 448.
Vent Class Rm 449.
Vent Class Rm 450.
Vent Class Rm 451.
Vent Class Rm 452.
Vent Class Rm 453.
Vent Class Rm 454.
Vent Class Rm 455.
Vent Class Rm 456.
Vent Class Rm 457.
Vent Class Rm 458.
Vent Class Rm 459.
Vent Class Rm 460.
Vent Class Rm 461.
Vent Class Rm 462.
Vent Class Rm 463.
Vent Class Rm 464.
Vent Class Rm 465.
Vent Class Rm 466.
Vent Class Rm 467.
Vent Class Rm 468.
Vent Class Rm 469.
Vent Class Rm 470.
Vent Class Rm 471.
Vent Class Rm 472.
Vent Class Rm 473.
Vent Class Rm 474.
Vent Class Rm 475.
Vent Class Rm 476.
Vent Class Rm 477.
Vent Class Rm 478.
Vent Class Rm 479.
Vent Class Rm 480.
Vent Class Rm 481.
Vent Class Rm 482.
Vent Class Rm 483.
Vent Class Rm 484.
Vent Class Rm 485.
Vent Class Rm 486.
Vent Class Rm 487.
Vent Class Rm 488.
Vent Class Rm 489.
Vent Class Rm 490.
Vent Class Rm 491.
Vent Class Rm 492.
Vent Class Rm 493.
Vent Class Rm 494.
Vent Class Rm 495.
Vent Class Rm 496.
Vent Class Rm 497.
Vent Class Rm 498.
Vent Class Rm 499.
Vent Class Rm 500.
Vent Class Rm 501.
Vent Class Rm 502.
Vent Class Rm 503.
Vent Class Rm 504.
Vent Class Rm 505.
Vent Class Rm 506.
Vent Class Rm 507.
Vent Class Rm 508.
Vent Class Rm 509.
Vent Class Rm 510.
Vent Class Rm 511.
Vent Class Rm 512.
Vent Class Rm 513.
Vent Class Rm 514.
Vent Class Rm 515.
Vent Class Rm 516.
Vent Class Rm 517.
Vent Class Rm 518.
Vent Class Rm 519.
Vent Class Rm 520.
Vent Class Rm 521.
Vent Class Rm 522.
Vent Class Rm 523.
Vent Class Rm 524.
Vent Class Rm 525.
Vent Class Rm 526.
Vent Class Rm 527.
Vent Class Rm 528.
Vent Class Rm 529.
Vent Class Rm 530.
Vent Class Rm 531.
Vent Class Rm 532.
Vent Class Rm 533.
Vent Class Rm 534.
Vent Class Rm 535.
Vent Class Rm 536.
Vent Class Rm 537.
Vent Class Rm 538.
Vent Class Rm 539.
Vent Class Rm 540.
Vent Class Rm 541.
Vent Class Rm 542.
Vent Class Rm 543.
Vent Class Rm 544.
Vent Class Rm 545.
Vent Class Rm 546.
Vent Class Rm 547.
Vent Class Rm 548.
Vent Class Rm 549.
Vent Class Rm 550.
Vent Class Rm 551.
Vent Class Rm 552.
Vent Class Rm 553.
Vent Class Rm 554.
Vent Class Rm 555.
Vent Class Rm 556.
Vent Class Rm 557.
Vent Class Rm 558.
Vent Class Rm 559.
Vent Class Rm 560.
Vent Class Rm 561.
Vent Class Rm 562.
Vent Class Rm 563.
Vent Class Rm 564.
Vent Class Rm 565.
Vent Class Rm 566.
Vent Class Rm 567.
Vent Class Rm 568.
Vent Class Rm 569.
Vent Class Rm 570.
Vent Class Rm 571.
Vent Class Rm 572.
Vent Class Rm 573.
Vent Class Rm 574.
Vent Class Rm 575.
Vent Class Rm 576.
Vent Class Rm 577.
Vent Class Rm 578.
Vent Class Rm 579.
Vent Class Rm 580.
Vent Class Rm 581.
Vent Class Rm 582.
Vent Class Rm 583.
Vent Class Rm 584.
Vent Class Rm 585.
Vent Class Rm 586.
Vent Class Rm 587.
Vent Class Rm 588.
Vent Class Rm 589.
Vent Class Rm 590.
Vent Class Rm 591.
Vent Class Rm 592.
Vent Class Rm 593.
Vent Class Rm 594.
Vent Class Rm 595.
Vent Class Rm 596.
Vent Class Rm 597.
Vent Class Rm 598.
Vent Class Rm 599.
Vent Class Rm 600.
Vent Class Rm 601.
Vent Class Rm 602.
Vent Class Rm 603.
Vent Class Rm 604.
Vent Class Rm 605.
Vent Class Rm 606.
Vent Class Rm 607.
Vent Class Rm 608.
Vent Class Rm 609.
Vent Class Rm 610.
Vent Class Rm 611.
Vent Class Rm 612.
Vent Class Rm 613.
Vent Class Rm 614.
Vent Class Rm 615.
Vent Class Rm 616.
Vent Class Rm 617.
Vent Class Rm 618.
Vent Class Rm 619.
Vent Class Rm 620.
Vent Class Rm 621.
Vent Class Rm 622.
Vent Class Rm 623.
Vent Class Rm 624.
Vent Class Rm 625.
Vent Class Rm 626.
Vent Class Rm 627.
Vent Class Rm 628.
Vent Class Rm 629.
Vent Class Rm 630.
Vent Class Rm 631.
Vent Class Rm 632.
Vent Class Rm 633.
Vent Class Rm 634.
Vent Class Rm 635.
Vent Class Rm 636.
Vent Class Rm 637.
Vent Class Rm 638.
Vent Class Rm 639.
Vent Class Rm 640.
Vent Class Rm 641.
Vent Class Rm 642.
Vent Class Rm 643.
Vent Class Rm 644.
Vent Class Rm 645.
Vent Class Rm 646.
Vent Class Rm 647.
Vent Class Rm 648.
Vent Class Rm 649.
Vent Class Rm 650.
Vent Class Rm 651.
Vent Class Rm 652.
Vent Class Rm 653.
Vent Class Rm 654.
Vent Class Rm 655.
Vent Class Rm 656.
Vent Class Rm 657.
Vent Class Rm 658.
Vent Class Rm 659.
Vent Class Rm 660.
Vent Class Rm 661.
Vent Class Rm 662.
Vent Class Rm 663.
Vent Class Rm 664.
Vent Class Rm 665.
Vent Class Rm 666.
Vent Class Rm 667.
Vent Class Rm 668.
Vent Class Rm 669.
Vent Class Rm 670.
Vent Class Rm 671.
Vent Class Rm 672.
Vent Class Rm 673.
Vent Class Rm 674.
Vent Class Rm 675.
Vent Class Rm 676.
Vent Class Rm 677.
Vent Class Rm 678.
Vent Class Rm 679.
Vent Class Rm 680.
Vent Class Rm 681.
Vent Class Rm 682.
Vent Class Rm 683.
Vent Class Rm 684.
Vent Class Rm 685.
Vent Class Rm 686.
Vent Class Rm 687.
Vent Class Rm 688.
Vent Class Rm 689.
Vent Class Rm 690.
Vent Class Rm 691.
Vent Class Rm 692.
Vent Class Rm 693.
Vent Class Rm 694.
Vent Class Rm 695.
Vent Class Rm 696.
Vent Class Rm 697.
Vent Class Rm 698.
Vent Class Rm 699.
Vent Class Rm 700.
Vent Class Rm 701.
Vent Class Rm 702.
Vent Class Rm 703.
Vent Class Rm 704.
Vent Class Rm 705.
Vent Class Rm 706.
Vent Class Rm 707.
Vent Class Rm 708.
Vent Class Rm 709.
Vent Class Rm 710.
Vent Class Rm 711.
Vent Class Rm 712.
Vent Class Rm 713.
Vent Class Rm 714.
Vent Class Rm 715.
Vent Class Rm 716.
Vent Class Rm 717.
Vent Class Rm 718.
Vent Class Rm 719.
Vent Class Rm 720.
Vent Class Rm 721.
Vent Class Rm 722.
Vent Class Rm 723.
Vent Class Rm 724.
Vent Class Rm 725.
Vent Class Rm 726.
Vent Class Rm 727.
Vent Class Rm 728.
Vent Class Rm 729.
Vent Class Rm 730.
Vent Class Rm 731.
Vent Class Rm 732.
Vent Class Rm 733.
Vent Class Rm 734.
Vent Class Rm 735.
Vent Class Rm 736.
Vent Class Rm 737.
Vent Class Rm 738.
Vent Class Rm 739.
Vent Class Rm 740.
Vent Class Rm 741.
Vent Class Rm 742.
Vent Class Rm 743.
Vent Class Rm 744.
Vent Class Rm 745.
Vent Class Rm 746.
Vent Class Rm 747.
Vent Class Rm 748.
Vent Class Rm 749.
Vent Class Rm 750.
Vent Class Rm 751.
Vent Class Rm 752.
Vent Class Rm 753.
Vent Class Rm 754.
Vent Class Rm 755.
Vent Class Rm 756.
Vent Class Rm 757.
Vent Class Rm 758.
Vent Class Rm 759.
Vent Class Rm 760.
Vent Class Rm 761.
Vent Class Rm 762.
Vent Class Rm 763.
Vent Class Rm 764.
Vent Class Rm 765.
Vent Class Rm 766.
Vent Class Rm 767.
Vent Class Rm 768.
Vent Class Rm 769.
Vent Class Rm 770.
Vent Class Rm 771.
Vent Class Rm 772.
Vent Class Rm 773.
Vent Class Rm 774.
Vent Class Rm 775.
Vent Class Rm 776.
Vent Class Rm 777.
Vent Class Rm 778.
Vent Class Rm 779.
Vent Class Rm 780.
Vent Class Rm 781.
Vent Class Rm 782.
Vent Class Rm 783.
Vent Class Rm 784.
Vent Class Rm 785.
Vent Class Rm 786.
Vent Class Rm 787.
Vent Class Rm 788.
Vent Class Rm 789.
Vent Class Rm 790.
Vent Class Rm 791.
Vent Class Rm 792.
Vent Class Rm 793.
Vent Class Rm 794.
Vent Class Rm 795.
Vent Class Rm 796.
Vent Class Rm 797.
Vent Class Rm 798.
Vent Class Rm 799.
Vent Class Rm 800.
Vent Class Rm 801.
Vent Class Rm 802.
Vent Class Rm 803.
Vent Class Rm 804.
Vent Class Rm 805.
Vent Class Rm 806.
Vent Class Rm 807.
Vent Class Rm 808.
Vent Class Rm 809.
Vent Class Rm 810.
Vent Class Rm 811.
Vent Class Rm 812.
Vent Class Rm 813.
Vent Class Rm 814.
Vent Class Rm 815.
Vent Class Rm 816.
Vent Class Rm 817.
Vent Class Rm 818.
Vent Class Rm 819.
Vent Class Rm 820.
Vent Class Rm 821.
Vent Class Rm 822.
Vent Class Rm 823.
Vent Class Rm 824.
Vent Class Rm 825.
Vent Class Rm 826.
Vent Class Rm 827.
Vent Class Rm 828.
Vent Class Rm 829.
Vent Class Rm 830.
Vent Class Rm 831.
Vent Class Rm 832.
Vent Class Rm 833.
Vent Class Rm 834.
Vent Class Rm 835.
Vent Class Rm 836.
Vent Class Rm 837.
Vent Class Rm 838.
Vent Class Rm 839.
Vent Class Rm 840.
Vent Class Rm 841.
Vent Class Rm 842.
Vent Class Rm 843.
Vent Class Rm 844.
Vent Class Rm 845.
Vent Class Rm 846.
Vent Class Rm 847.
Vent Class Rm 848.
Vent Class Rm 849.
Vent Class Rm 850.
Vent Class Rm 851.
Vent Class Rm 852.
Vent Class Rm 853.
Vent Class Rm 854.
Vent Class Rm 855.
Vent Class Rm 856.
Vent Class Rm 857.
Vent Class Rm 858.
Vent Class Rm 859.
Vent Class Rm 860.
Vent Class Rm 861.
Vent Class Rm 862.
Vent Class Rm 863.
Vent Class Rm 864.
Vent Class Rm 865.
Vent Class Rm 866.
Vent Class Rm 867.
Vent Class Rm 868.
Vent Class Rm 869.
Vent Class Rm 870.
Vent Class Rm 871.
Vent Class Rm 872.
Vent Class Rm 873.
Vent Class Rm 874.
Vent Class Rm 875.
Vent Class Rm 876.
Vent Class Rm 877.
Vent Class Rm 878.
Vent Class Rm 879.
Vent Class Rm 880.
Vent Class Rm 881.
Vent Class Rm 882.
Vent Class Rm 883.
Vent Class Rm 884.
Vent Class Rm 885.
Vent Class Rm 886.
Vent Class Rm 887.
Vent Class Rm 888.
Vent Class Rm 889.
Vent Class Rm 890.
Vent Class Rm 891.
Vent Class Rm 892.
Vent Class Rm 893.
Vent Class Rm 894.
Vent Class Rm 895.
Vent Class Rm 896.
Vent Class Rm 897.
Vent Class Rm 898.
Vent Class Rm 899.
Vent Class Rm 900.
Vent Class Rm 901.
Vent Class Rm 902.
Vent Class Rm 903.
Vent Class Rm 904.
Vent Class Rm 905.
Vent Class Rm 906.
Vent Class Rm 907.
Vent Class Rm 908.
Vent Class Rm 909.
Vent Class Rm 910.
Vent Class Rm 911.
Vent Class Rm 912.
Vent Class Rm 913.
Vent Class Rm 914.
Vent Class Rm 915.
Vent Class Rm 916.
Vent Class Rm 917.
Vent Class Rm 918.
Vent Class Rm 919.
Vent Class Rm 920.
Vent Class Rm 921.
Vent Class Rm 922.
Vent Class Rm 923.
Vent Class Rm 924.
Vent Class Rm 925.
Vent Class Rm 926.
Vent Class Rm 927.
Vent Class Rm 928.
Vent Class Rm 929.
Vent Class Rm 930.
Vent Class Rm 931.
Vent Class Rm 932.
Vent Class Rm 933.
Vent Class Rm 934.
Vent Class Rm 935.
Vent Class Rm 936.
Vent Class Rm 937.
Vent Class Rm 938.
Vent Class Rm 939.
Vent Class Rm 940.
Vent Class Rm 941.
Vent Class Rm 942.
Vent Class Rm 943.
Vent Class Rm 944.
Vent Class Rm 945.
Vent Class Rm 946.
Vent Class Rm 947.
Vent Class Rm 948.
Vent Class Rm 949.
Vent Class Rm 950.
Vent Class Rm 951.
Vent Class Rm 952.
Vent Class Rm 953.
Vent Class Rm 954.
Vent Class Rm 955.
Vent Class Rm 956.
Vent Class Rm 957.
Vent Class Rm 958.
Vent Class Rm 959.
Vent Class Rm 960.
Vent Class Rm 961.
Vent Class Rm 962.
Vent Class Rm 963.
Vent Class Rm 964.
Vent Class Rm 965.
Vent Class Rm 966.
Vent Class Rm 967.
Vent Class Rm 968.
Vent Class Rm 969.
Vent Class Rm 970.
Vent Class Rm 971.
Vent Class Rm 972.
Vent Class Rm 973.
Vent Class Rm 974.
Vent Class Rm 975.
Vent Class Rm 976.
Vent Class Rm 977.
Vent Class Rm 978.
Vent Class Rm 979.
Vent Class Rm 980.
Vent Class Rm 981.
Vent Class Rm 982.
Vent Class Rm 983.
Vent Class Rm 984.
Vent Class Rm 985.
Vent Class Rm 986.
Vent Class Rm 987.
Vent Class Rm 988.
Vent Class Rm 989.
Vent Class Rm 990.
Vent Class Rm 991.
Vent Class Rm 992.
Vent Class Rm 993.
Vent Class Rm 994.
Vent Class Rm 995.
Vent Class Rm 996.
Vent Class Rm 997.
Vent Class Rm 998.
Vent Class Rm 999.
Vent Class Rm 1000.



DETAIL OF PLASTER COVE IN 2nd FLOOR CORRIDOR
3/4 Scale.



DETAIL OF PLATFORM IN MUSIC ROOM
3/4 Scale

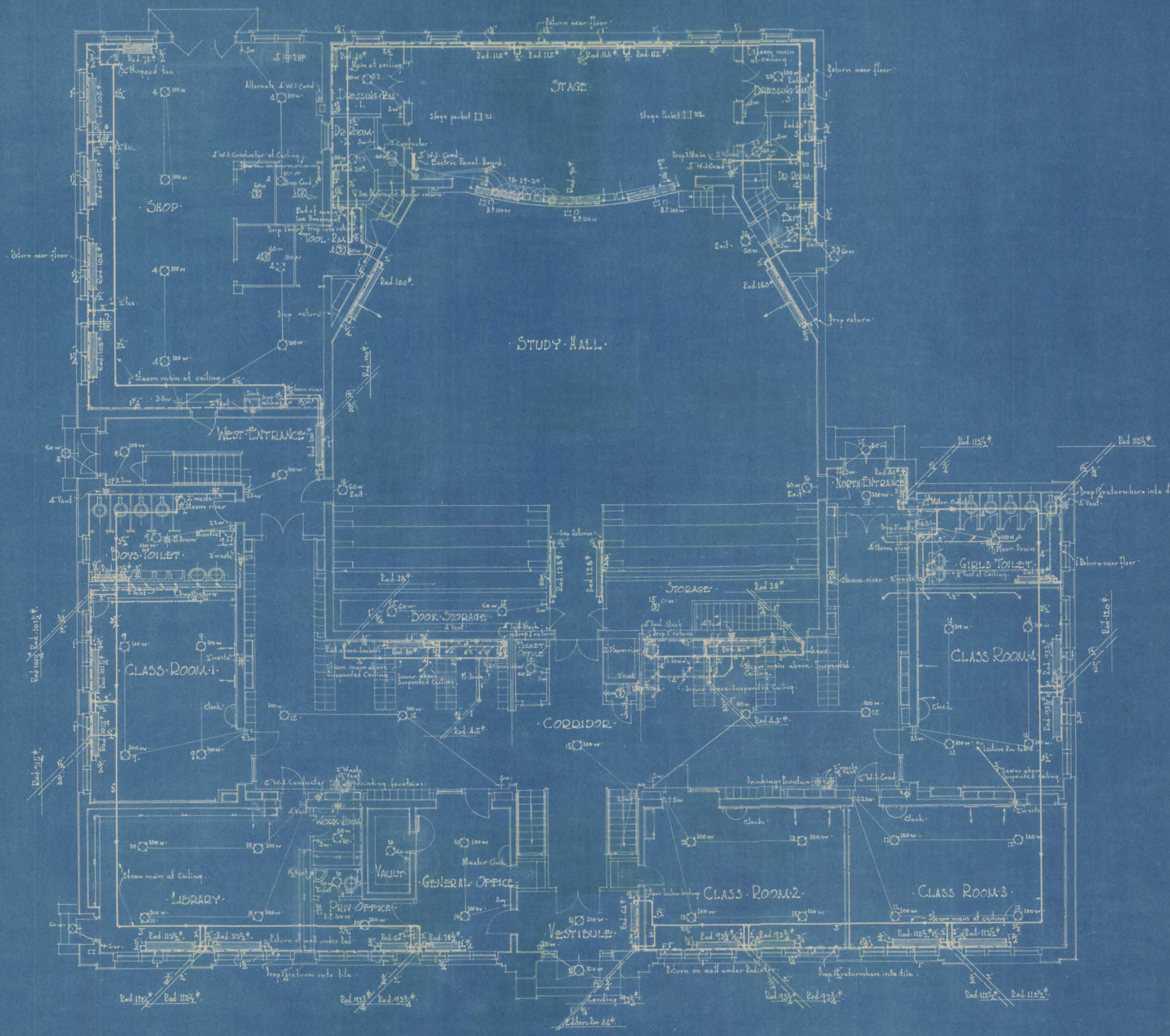
ALTERNATE PLAN OF ROOM OVER SHOP
1/8 Scale

PLAN OF SECOND FLOOR
1/8 Scale

HIGH SCHOOL BUILDING AT CAMBRIDGE NEBRASKA
BEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
405-10 Grain Exchange Bldg. Sioux City, Iowa

Issue No. 1. 2-8-20.

M.2613-2.



PLAN OF FIRST FLOOR

1/8 Scale

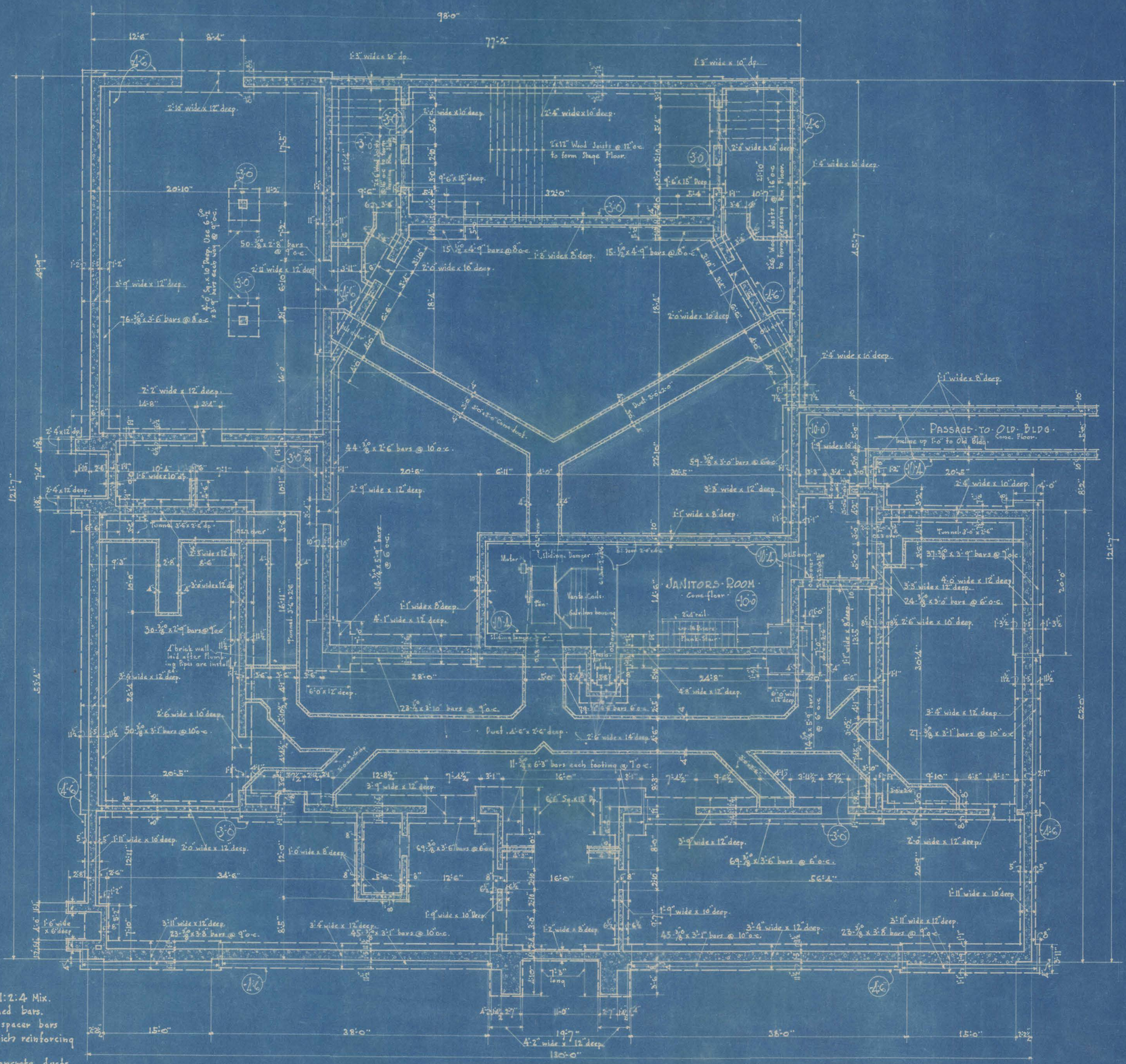
Note: This plan is for Heating, Plumbing, Wiring, etc. For Ventilation and General Information See General Plans.

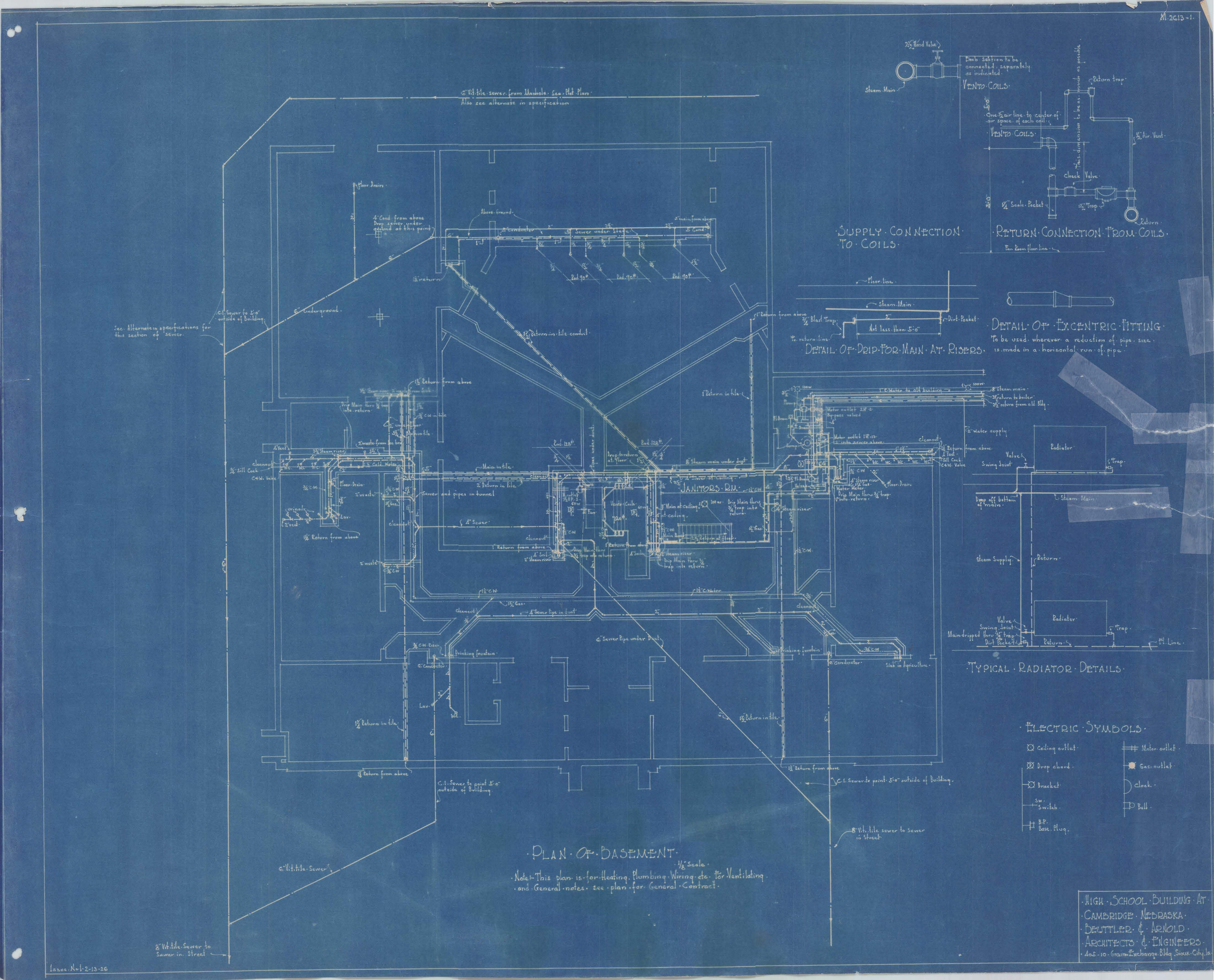
HIGH SCHOOL BUILDING AT CAMBRIDGE NEBRASKA

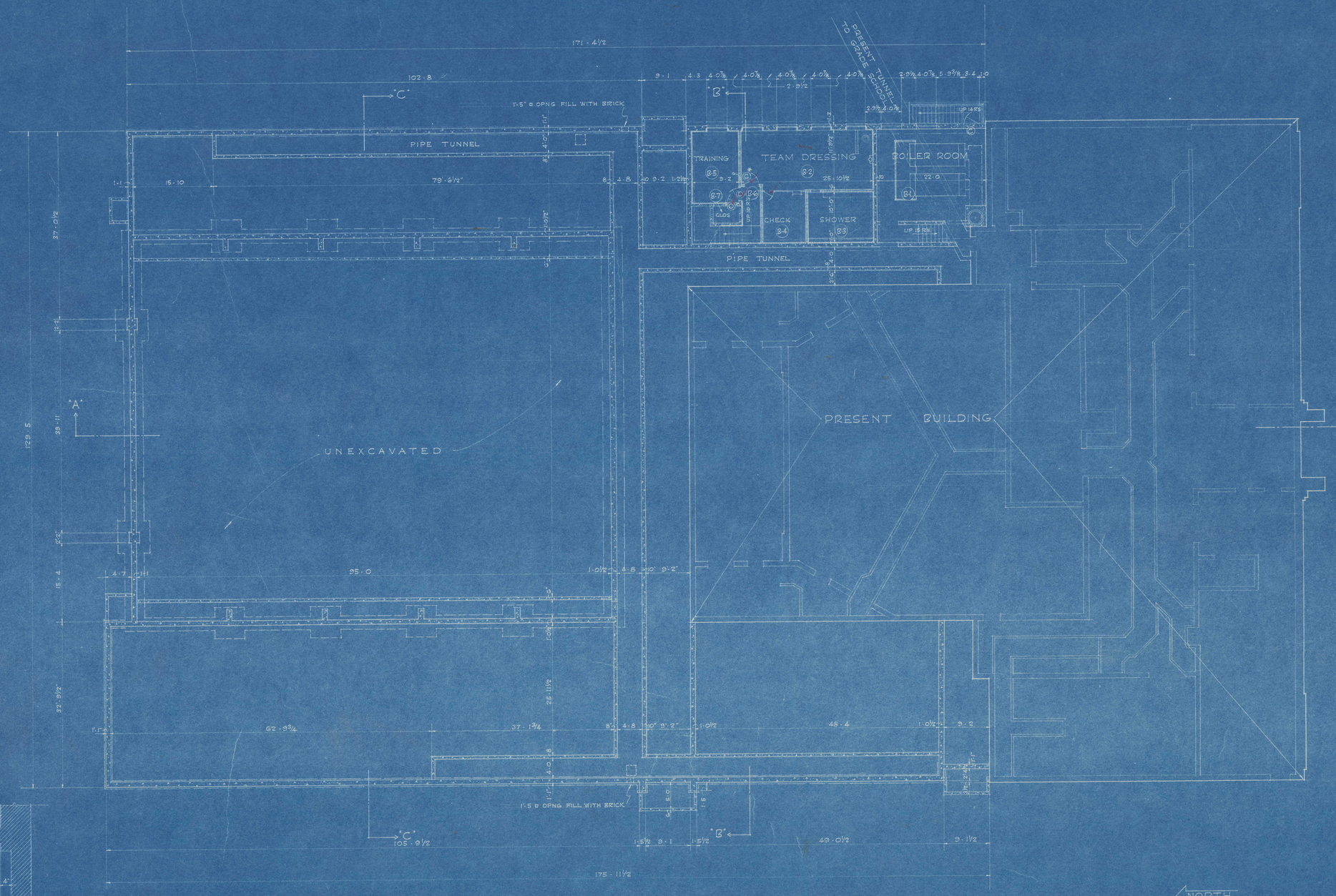
BEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
405-10 Grain Exchange Bldg. Sioux City Ia.

Issue No 1 2-13-26

2613-2


98'-0"
77'-2"
12'-6"
8'-4"
1'-3" wide x 10" dp.
2'-10" wide x 12" deep.
2'-4" wide x 10" deep.
2'-6" wide x 10" deep.
1'-6" wide x 10" deep.
2'-0" wide x 10" deep.
2'-6 wide x 10" deep.
1'-1" wide x 8" deep.
2'-0" wide x 16" deep.
1'-8" wide x 8" deep.
2'-2" wide x 12" deep.
2'-9" wide x 12" deep.
2'-4 x 12" dp.
1'-8 wide x 10" dp.
2'-4 x 12" deep.
2'-5" wide x 12" dp.
3'-6" wide x 12" dp.
4'-1" wide x 12" deep.
6'-0" x 12" deep.
2'-6 wide x 10" deep.
3'-9" wide x 12" deep.
1'-11" wide x 10" deep.
2'-0" wide x 12" deep.
1'-0" wide x 8" deep.
1'-9" wide x 10" deep.
3'-11" wide x 12" deep.
3'-4" wide x 12" deep.
3'-5" wide x 12" deep.
4'-8" wide x 12" deep.
4'-2" wide x 12" deep.
6'-0" wide x 12" deep.
2'-6 wide x 10" deep.
3'-4" wide x 12" deep.
2'-0" wide x 12" deep.
1'-11" wide x 8" deep.
1'-9" wide x 16" deep.
2'-6 wide x 10" deep.
2'-6" wide x 16" deep.
9'-6" x 15" deep.
9'-6" x 15" Deep
2'-6" wide x 10" deep.
2'-0" wide x 10" deep.
2'-6 wide x 10" deep.
1'-1" wide x 8" deep.
2'-6" wide x 10" deep.
4'-0" wide x 12" deep.
2'-6" wide x 10" deep.
3'-4" wide x 12" deep.
2'-6" wide x 10" deep.
2'-6" wide x 16" deep.
2'-6" wide x 10" deep.
2'-0" wide x 12" deep.
2'-0" wide x 12" deep.
2'-0" wide x 16" deep.
2'-0" wide x 10" deep.
2'-0" wide x 12" deep.
2'-0" wide x 12

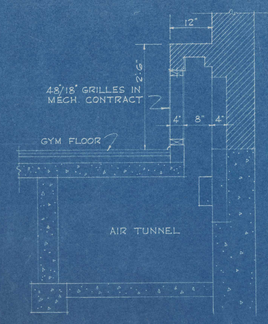

M.2613-1.
SUPPLY CONNECTION TO COILS
RETURN CONNECTION FROM COILS
DETAIL OF DRIP FOR MAIN AT RISERS
DETAIL OF EXCENTRIC FITTING
To be used wherever a reduction of pipe size is made in a horizontal run of pipe
TYPICAL RADIATOR DETAILS
ELECTRIC SYMBOLS
Ceiling outlet
Drop chord
Bracket
Sw. Switch
B.P. Base Plug
Motor outlet
Gas outlet
Clock
Bell
PLAN OF BASEMENT
1/8" Scale
Note: This plan is for Heating, Plumbing, Wiring etc. For Ventilating and General notes see plan for General Contract.
HIGH SCHOOL BUILDING AT CAMBRIDGE NEBRASKA
BEUTTLER & ARNOLD
ARCHITECTS & ENGINEERS
405-10 Grain Exchange Bldg. Sioux City, Ia.
Issue No. 1-2-13-26



FOUNDATION & BASEMENT PLAN

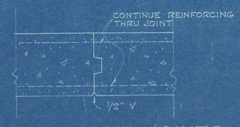
SCALE 1/8 = 1-0

NOTE: SEE SHEET No S-1 FOR FOOTING SECTIONS & REINFORCEMENT.



DETAIL RETURN AIR GRILLES & AIR TUNNEL IN RM No 116

SCALE 3/4" = 1'-0"



TYPICAL CONST. JOINTS

EVERY 20' AROUND PERIMETER OF BUILDING

NO SCALE

MATERIAL INDICATION			
	CONCRETE		PLASTER
	BRICK		CONC. BLOCKS
	HOLLOW TILE		WOOD
	GLAZED TILE		
	STEEL		

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR

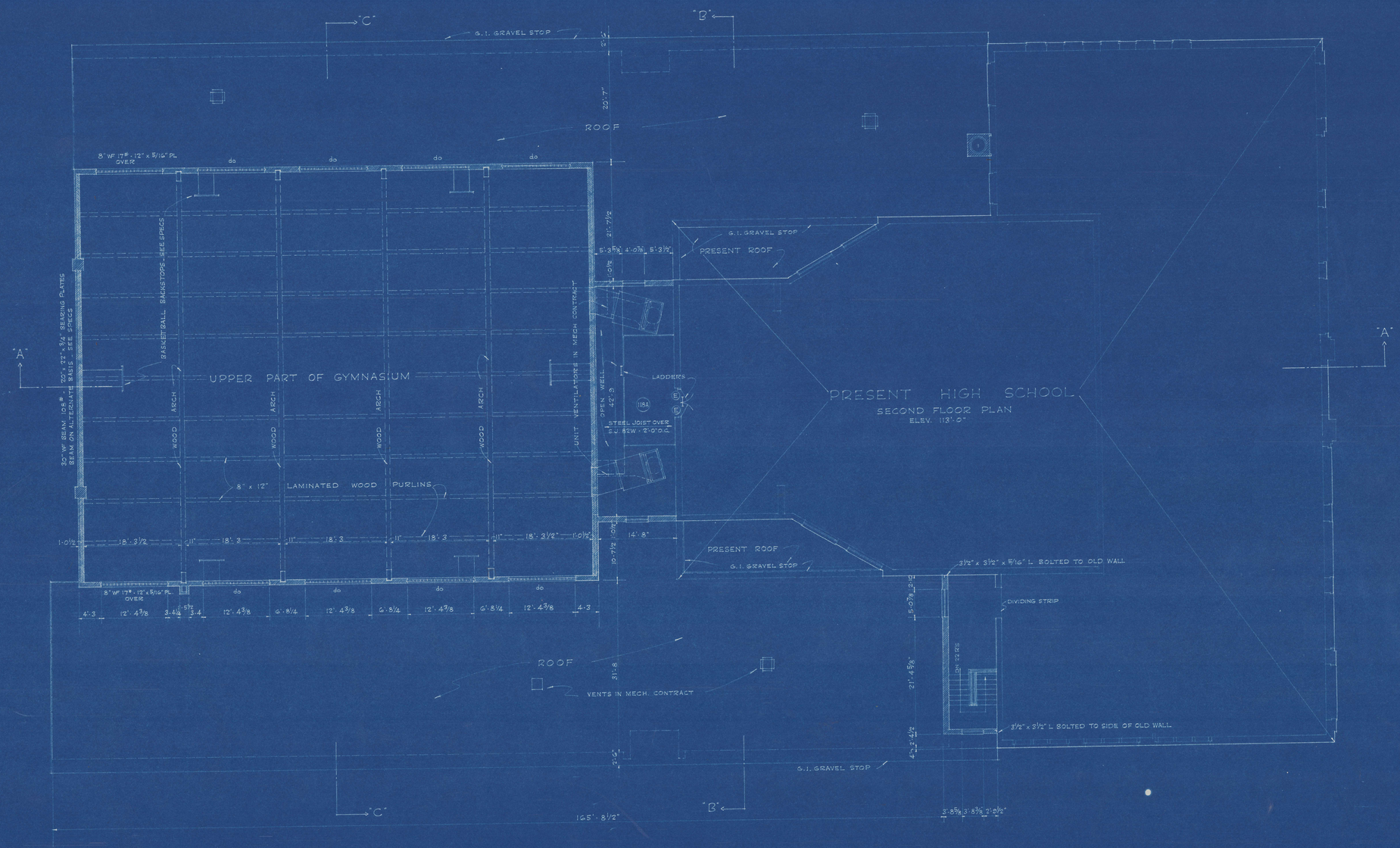
HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR	JOB No G14 MAY 1951	SHEET No A-1

SCHEDULE OF INTERIOR FINISH

ROOM	No.	FLOOR	BASE	WAINSCOT	WALL	CEILING	TRIM	NOTES
BOILER ROOM	B1	CEMENT						
TEAM DRESSING	B2	CERAMIC TILE	GLAZED TILE		GLAZED TILE		METAL	
SHOWER	B3	" "	" "		" "		"	
CHECK	B4	" "	" "		" "		"	
TRAINING	B5	" "	" "		" "		"	
STAIR HALL	B6	" "	" "		" "		"	
CLOSET	B7	CEMENT	—		—		—	
GIRLS DRESSING	100	TILE	GLAZED TILE		GLAZED TILE	PLASTER	METAL	
SHOWER	101	CERAMIC TILE	" "		" "	"	"	
STAIR HALL	102	" "	" "		" "	"	"	
SHOWER	103	CERAMIC TILE	" "		" "	"	"	
JANITOR	104	CEMENT	—		HOLLOW TILE	CONC. BLOCKS	—	
CLASS ROOM	A1	CEMENT	—		HOLLOW TILE	CONC. BLOCKS	PLASTER	

ROOM	No.	FLOOR	BASE	WAINSCOT	WALL	CEILING	TRIM	NOTES
CHECK	104	TILE	GLAZED TILE		GLAZED TILE	PLASTER	METAL	
BOYS DRESSING	105	" "	" "		" "	"	"	
COACH	106	" "	" "		" "	"	"	
STAIR HALL	107	ASPHALT TILE	" "		" "	"	"	
CORRIDOR	108	" "	" "		" "	"	"	
VESTIBULE	109	ASPHALT TILE	" "		" "	"	"	
MULTI-PURPOSE	110	" "	" "		" "	"	"	
KITCHEN	111	QUARRY TILE	" "		" "	"	"	
FOOD STOR	112	CEMENT	" "		" "	"	"	
GARBAGE	113	"	" "		" "	"	"	
JANITOR	114	"	" "		" "	"	"	
HALL	115	"	" "		" "	"	"	
GYMNASIUM	116	MAPLE	WOOD BASE 6"H		—	—	—	
STORAGE	117	CEMENT	—		—	—	—	
STORAGE	118	"	—		—	—	—	
STORAGE	118A	"	—		—	—	—	

ROOM	No.	FLOOR	BASE	WAINSCOT	WALL	CEILING	TRIM	NOTES
SHOP	118	CEMENT						
LOCKER RM	120	TILE						
OFFICE	121	ASPHALT TILE						
HALL	122	" "						
CLASS RM	123	CEMENT						
TOOLS	124	"						
STORAGE	125	"						
TICKETS	126	"						
VESTIBULE	127	TILE						
MUSIC ROOM	128	ASPHALT TILE						
INSTRUMENTS	129	ASPHALT TILE						
OFFICE	130	" "						
STORAGE	131	" "						
HALL	132	" "						
CLOSET	133	CEMENT						
STAIR HALL	134	TILE				

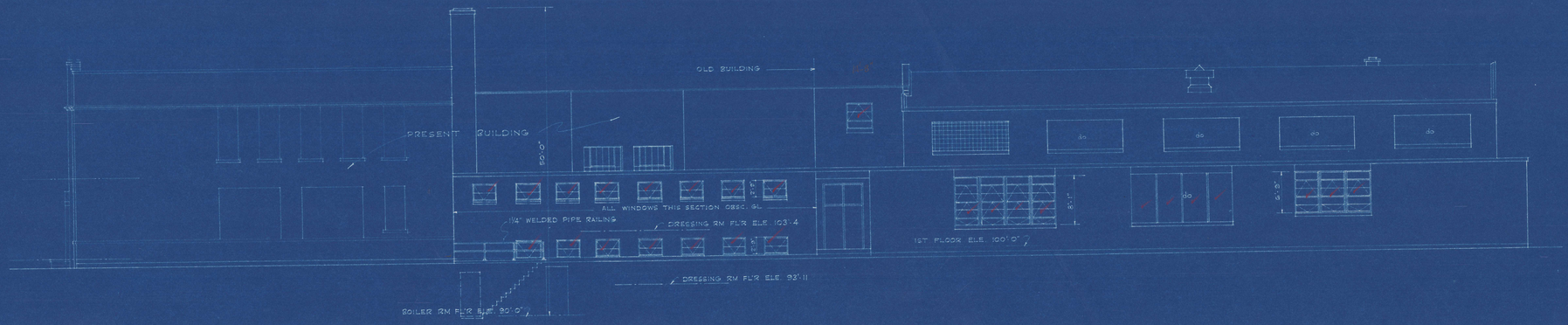


CLERESTORY & ROOF PLAN

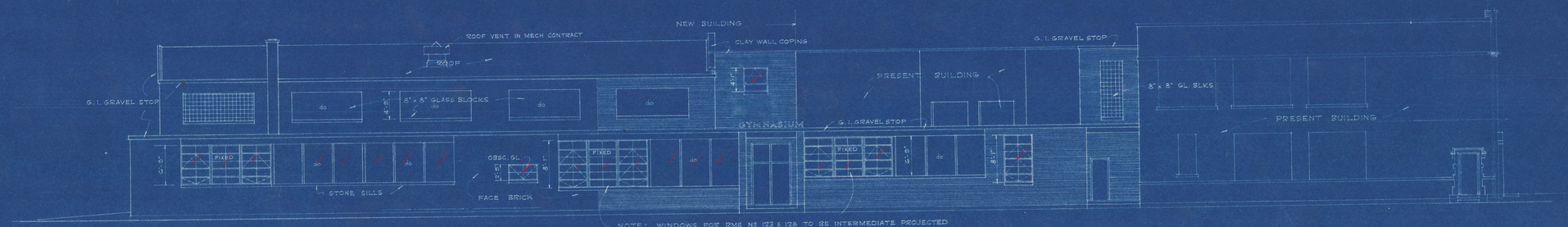
SCALE 1/8 = 1'-0

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB No 614 MAY 1951	SHEET No A-3

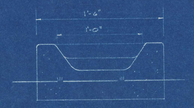


EAST ELEVATION
SCALE 1/8 = 1'-0



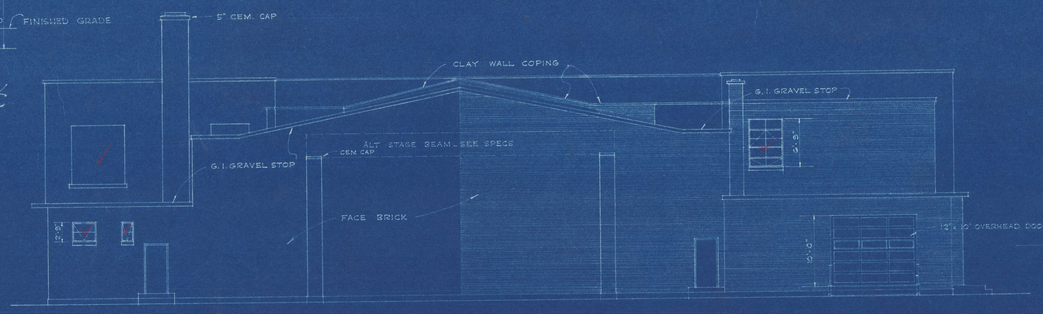
NOTE: WINDOWS FOR RMS NOS 123 & 128 TO BE INTERMEDIATE PROJECTED
ALL OTHERS TO BE ARCH. PROJ. WINDOWS

WEST ELEVATION
SCALE 1/8 = 1'-0

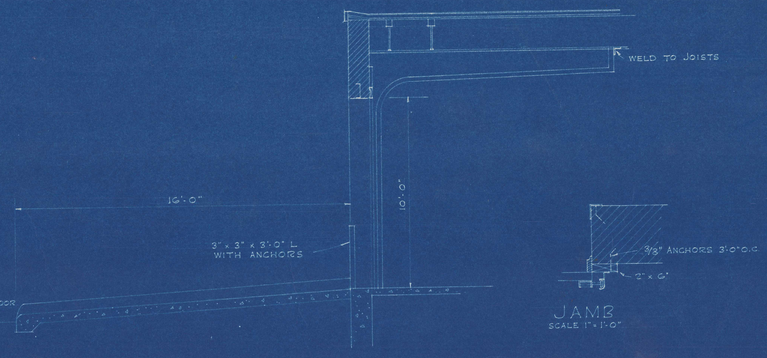




DETAIL SPLASH BLOCK
SCALE 1½" = 1'-0"
PROVIDE ONE FOR EACH ROOF DRAIN



NORTH ELEVATION
SCALE 1/8 = 1'-0

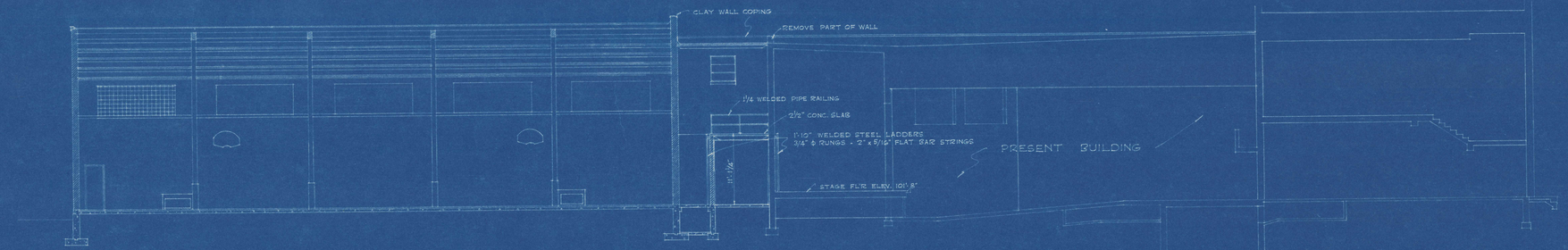


JAMB
SCALE 1" = 1'-0"

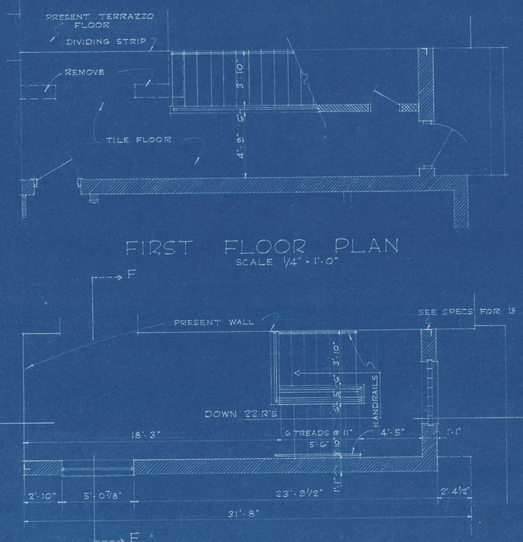
DETAIL OVERHEAD DOOR
SCALE 3/8" = 1'-0"

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB NO 614 MAY 1951	SHEET NO A-4

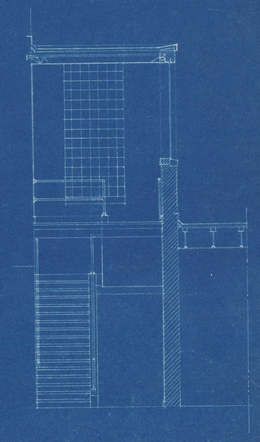


LONGITUDINAL SECTION THRU A-A
SCALE 1/8 = 1'-0

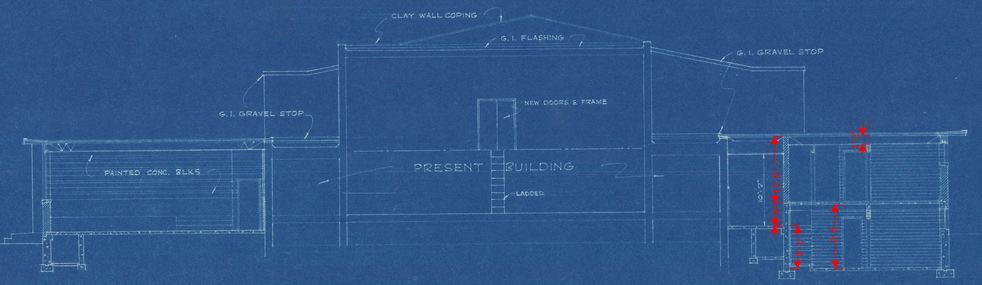


FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"

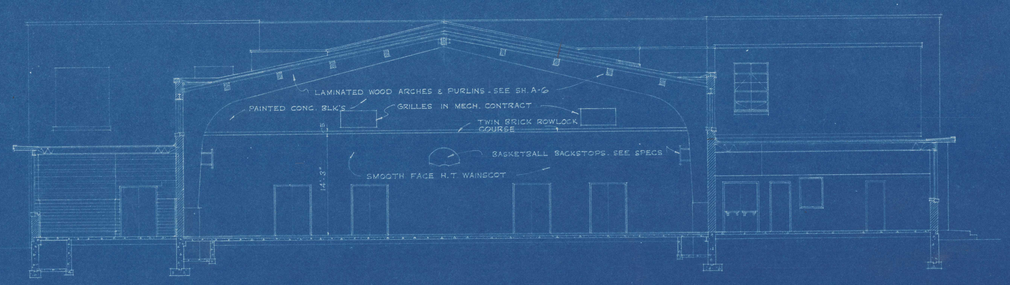
SECOND FLOOR PLAN
SCALE 1/4" = 1'-0"



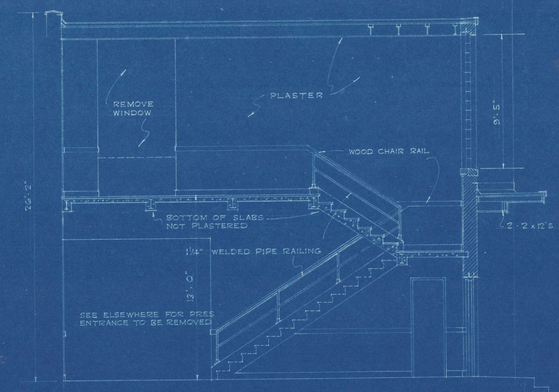
SECTION THRU F-F
SCALE 1/4" = 1'-0"



CROSS SECTION THRU B-B
SCALE 1/8 = 1'-0



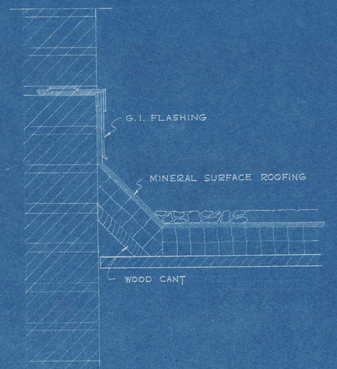
CROSS SECTION THRU C-C
SCALE 1/8 = 1'-0

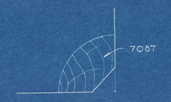


SECTION THRU E-E
SCALE 1/4" = 1'-0"

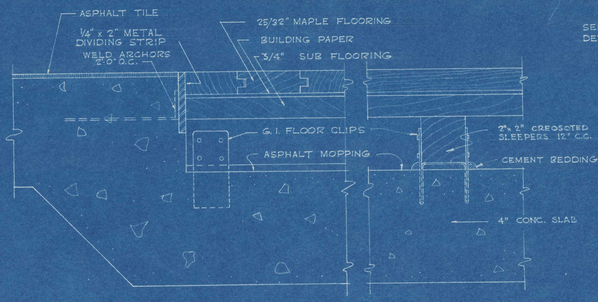
HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR

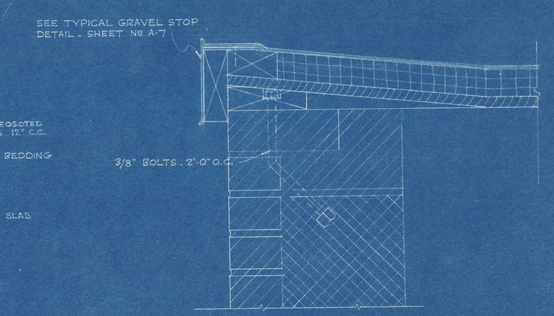
HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR	JOB NO. 1614 MAY 1951	SHEET NO. A-5

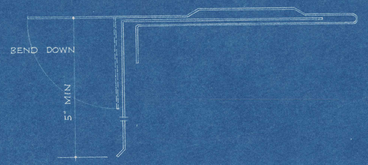




TYPICAL BASE SHOE
FULL SIZE



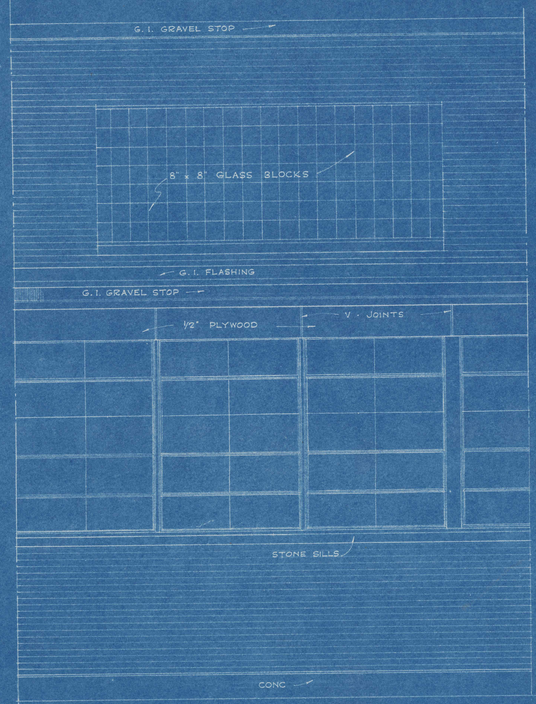




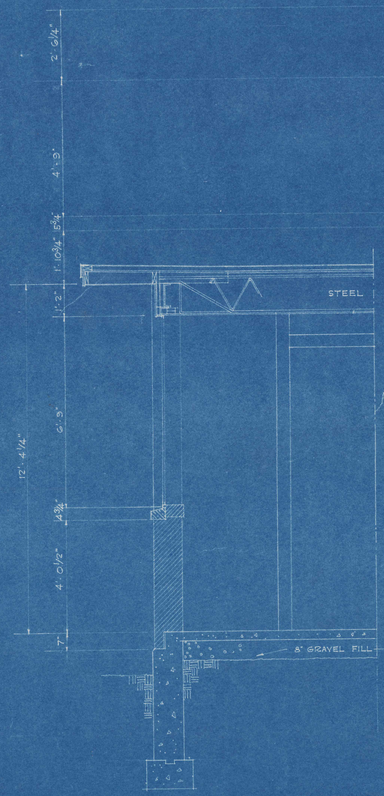
TYPICAL GALV. IRON FLASHING DETAIL
FULL SIZE

GYMNASIUM FLOOR DETAIL
HALF FULL SIZE

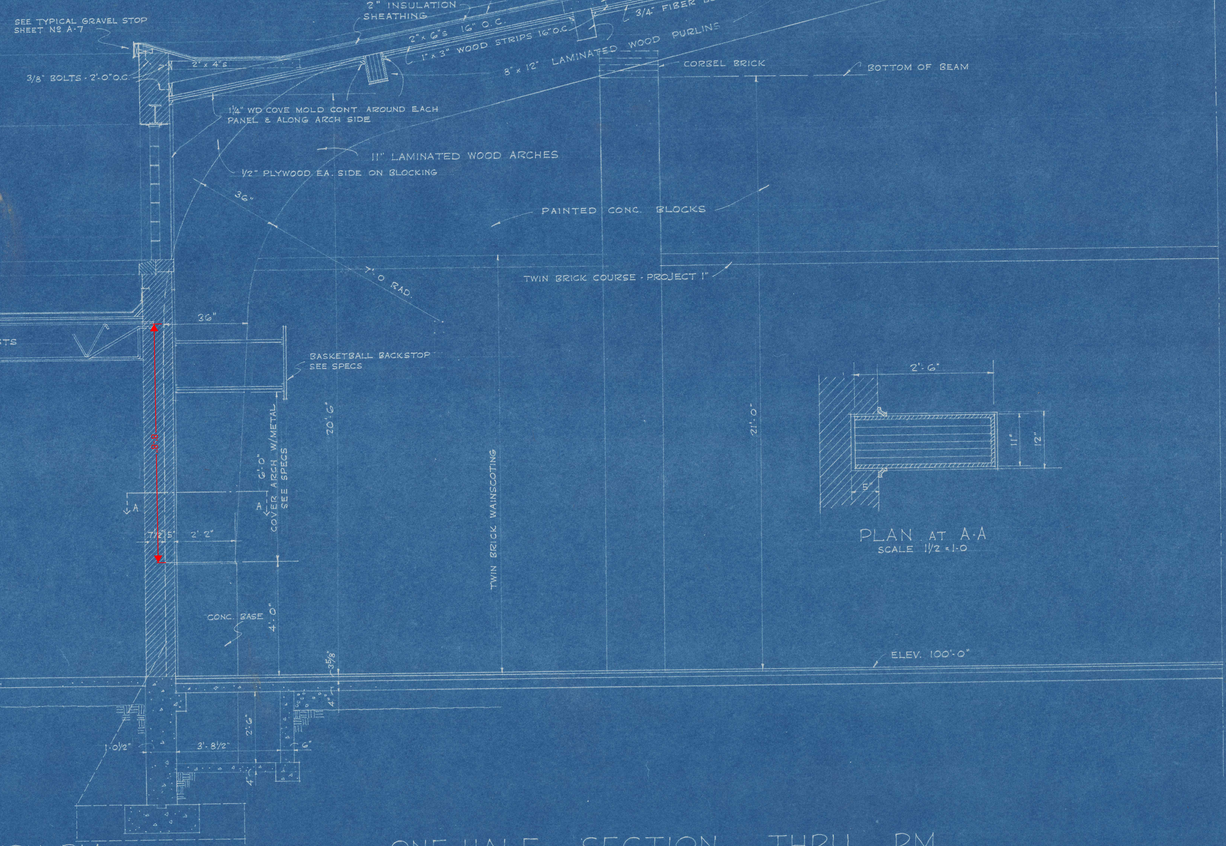
TYPICAL WALL FLASHING DETAIL
SCALE 3" = 1'-0"



PART ELEVATION OF WALL
SCALE 1/2" = 1'-0"



PART SECTION THRU RM
SCALE 1/2" = 1'-0"



ONE-HALF SECTION THRU RM
SCALE 1/2" = 1'-0"

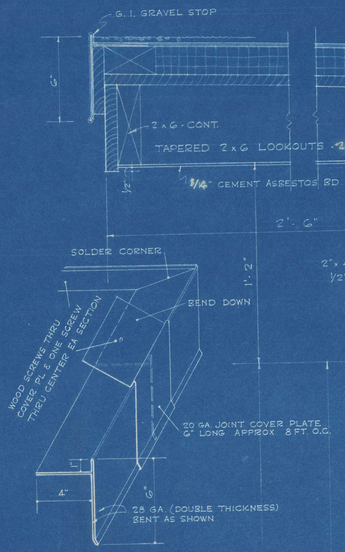
TYPICAL WOOD WALL COPING
OCCURS WHERE NO PROJECTION OR PARAPET IS INDICATED
SCALE 3" = 1'-0"

PLAN AT A-A
SCALE 1 1/2" = 1'-0"

TYPICAL WALL DETAILS

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB NO 614 MAY 1951	SHEET NO A-6



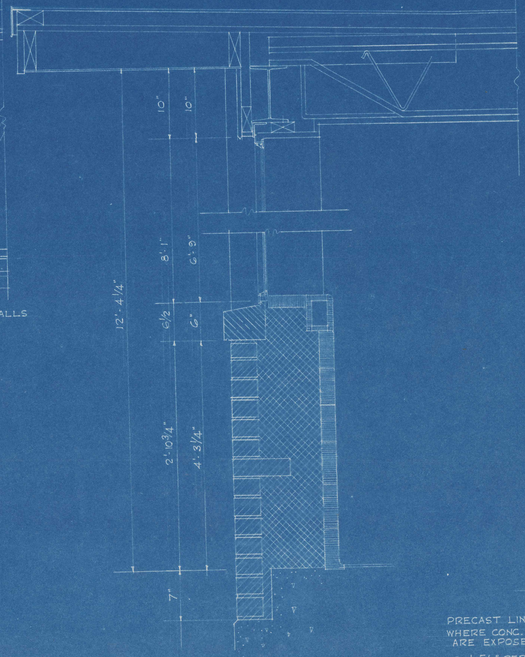
TYPICAL GALV. IRON GRAVEL STOP
NO SCALE

TYPICAL JOINT IN 1/2" PLYWOOD FASCIA BOARDS
FULL SIZE
LOCATE AS DIRECTED

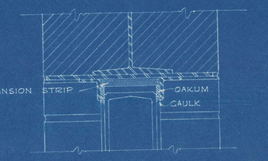
TYPICAL WALL DETAIL
SCALE 3" = 1'-0"

WINDOW HEAD

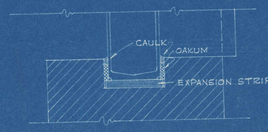
MULLION



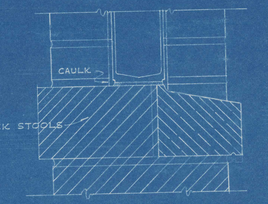
TYPICAL WALL DETAIL
WHERE 8" WF LINTEL OCCURS
SCALE 1 1/2" = 1'-0"



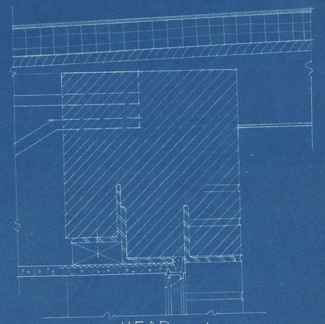
HEAD



JAMB

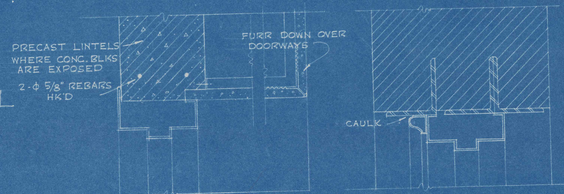


SILL
TYPICAL GLASS BLOCK WINDOW DETAIL
SCALE 3" = 1'-0"



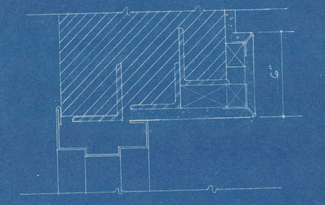
HEAD

SILL
TYPICAL WINDOW DETAIL
SCALE 3" = 1'-0"



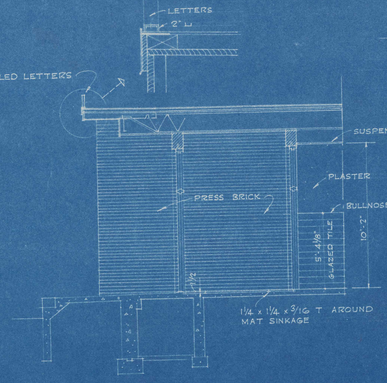
TYPICAL CORRIDOR DOORWAY
SCALE 3 = 1-0

EXTERIOR DOORWAY IN 12" MASONRY WALLS
SCALE 3 = 1-0

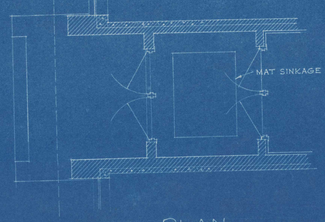


HEAD

ELEVATION
SCALE 1/4 = 1-0

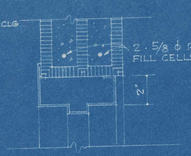


SECTION
SCALE 1/4 = 1-0

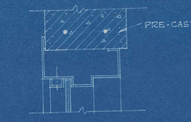


PLAN
SCALE 1/4 = 1-0

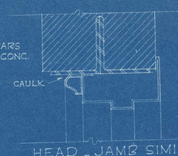
DETAIL - TYPICAL ENTRANCE DOORWAY



TYPICAL DOORWAY IN 6" GLAZED TILE PART'N
SCALE 3 = 1-0



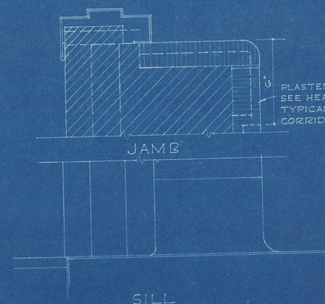
TYPICAL BORROW LIGHT
SCALE 3" = 1'-0"



HEAD - JAMB SIMILAR

TRANSOM

TYPICAL DETAILS ENTRANCE DOORWAY
SCALE 3 = 1-0



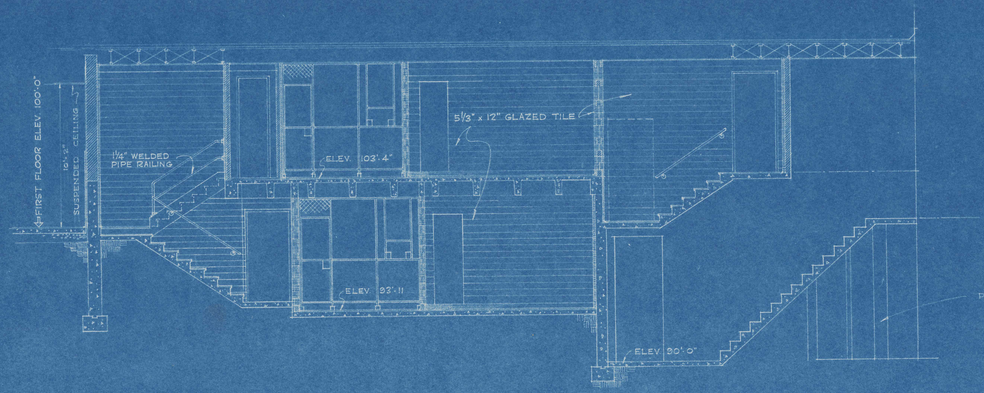
JAMB

SILL

TYPICAL INTERIOR DOORWAY IN MASONRY PARTITIONS
SCALE 3" = 1'-0"

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

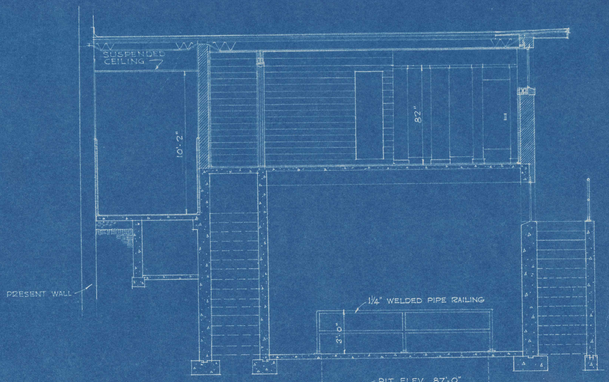
HELLERBERG & HELLERBERG ARCHITECTS KEARNEY, NEBR	JOB Nº 614 MAY 1951	SHEET Nº A-7



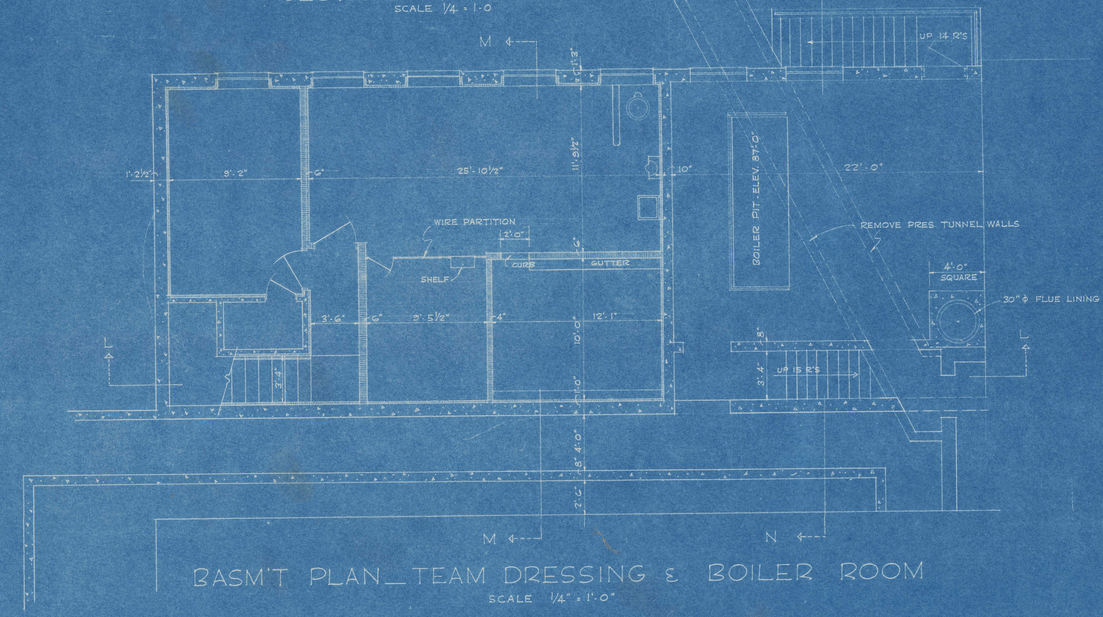
SECTION THRU "L-L"
SCALE 1/4" = 1'-0"



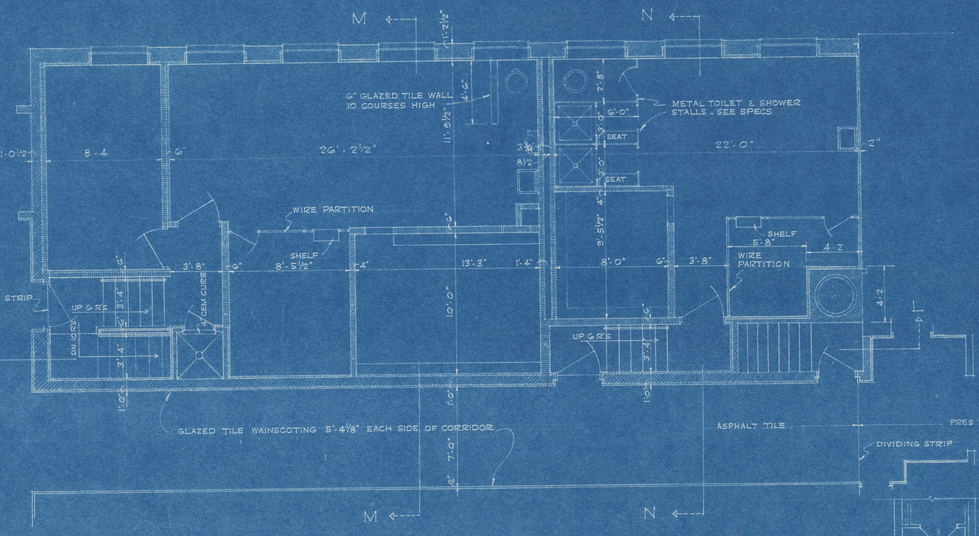
SECTION THRU "M-M"
SCALE 1/4" = 1'-0"



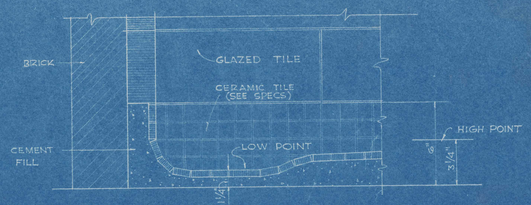
SECTION THRU "N-N"
SCALE 1/4" = 1'-0"



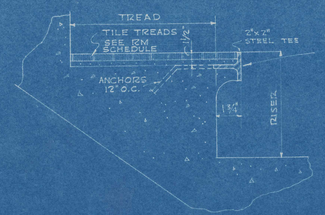
BASM'T PLAN_TEAM DRESSING & BOILER ROOM
SCALE 1/4" = 1'-0"



DRESSING ROOM PLAN AT ELEV. 103'-4"
SCALE 1/4" = 1'-0"

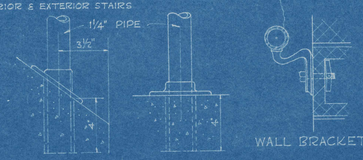


DETAIL_SHOWER ROOM GUTTER
SCALE 3" = 1'-0"

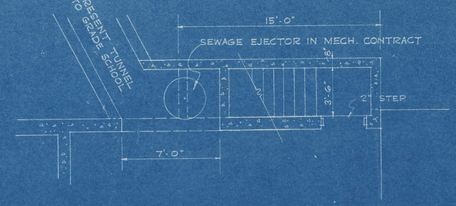


TYPICAL DETAIL - CONCRETE TREADS & RISERS
SCALE 3" = 1'-0"

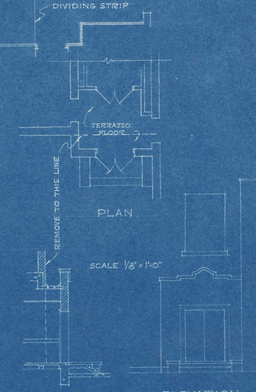
NOTE:
TEES NOT REQ'D FOR BOILER RM INTERIOR & EXTERIOR STAIRS.



TYPICAL DETAILS PIPE STAIR RAILINGS
SCALE 3" = 1'-0"



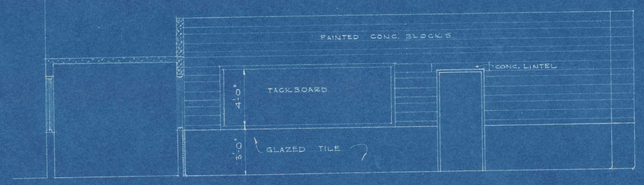
PLAN UNDER EXTERIOR BOILER RM. STAIRS
SCALE 1/4" = 1'-0"



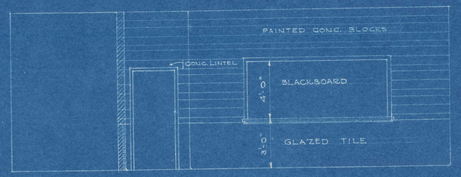
DETAILS_PRESENT NORTH ENTRANCES TO BE REMOVED

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

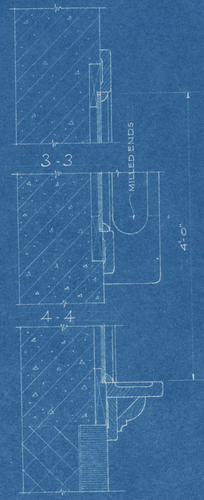
HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR	JOB NO 614 MAY 1951	SHEET NO A-8



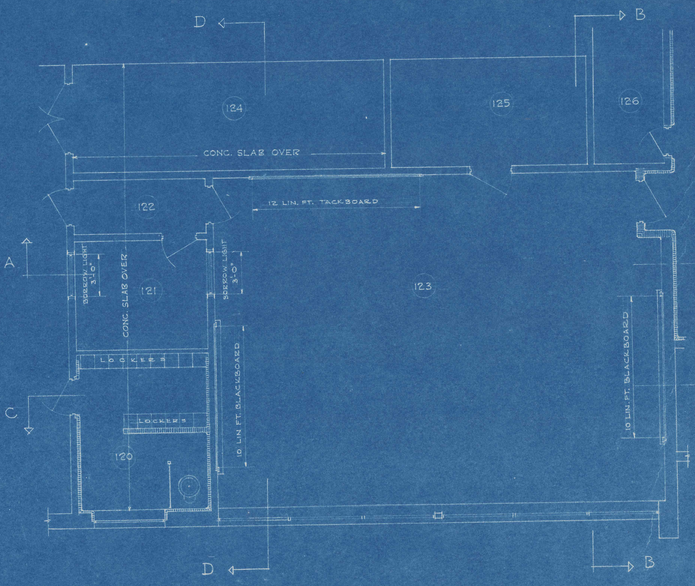
ELEVATION A-A
SCALE 1/4"=1'-0"



ELEVATION B-B
SCALE 1/4"=1'-0"



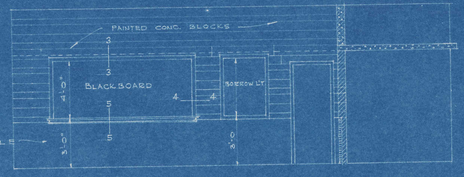
BLACKBOARD DETAIL
SCALE 3"=1'-0"
TACKBOARD TRIM TO BE SIMILAR



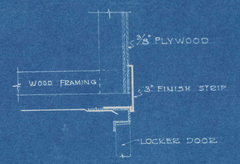
PLAN OF CLASS ROOM ETC.
SCALE 1/4"=1'-0"



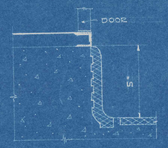
ELEVATION C-C
SCALE 1/4"=1'-0"



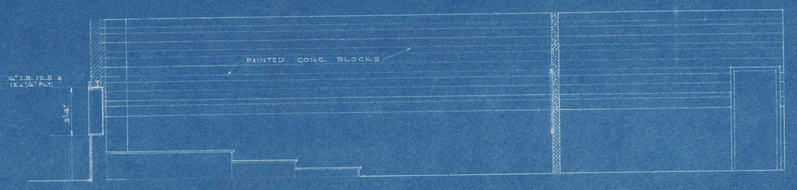
ELEVATION D-D
SCALE 1/4"=1'-0"



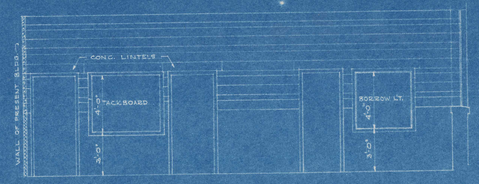
LOCKER TOP
SCALE 3"=1'-0"



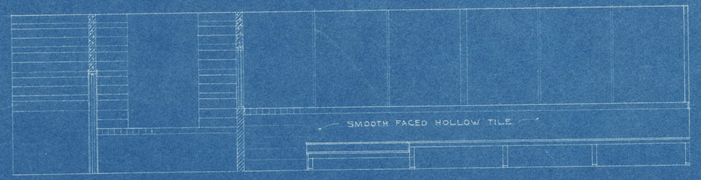
LOCKER BASE
SCALE 3"=1'-0"



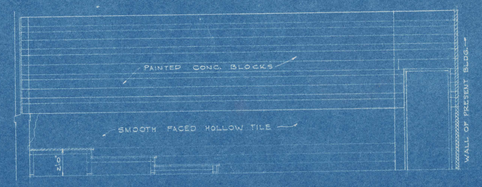
ELEVATION A-A
SCALE 1/4"=1'-0"



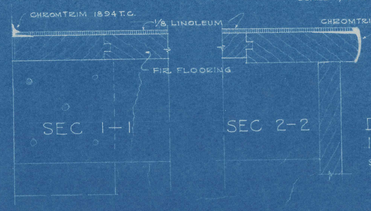
ELEVATION B-B
SCALE 1/4"=1'-0"



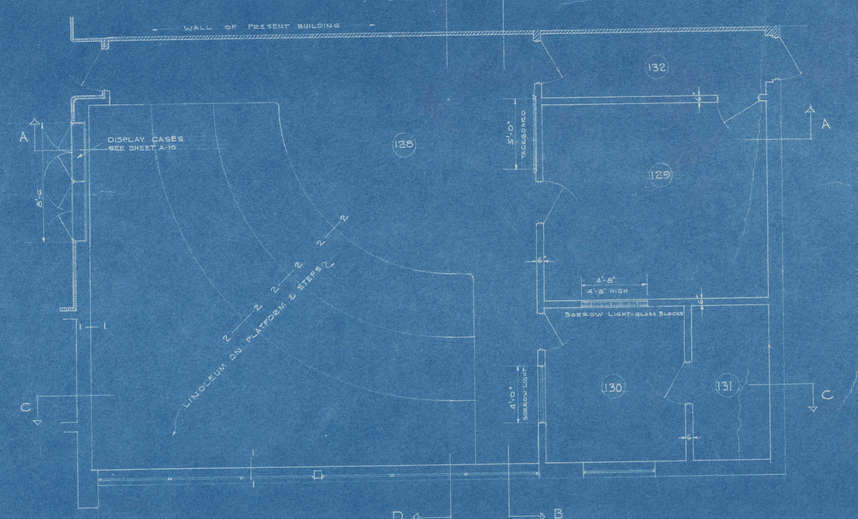
ELEVATION C-C
SCALE 1/4"=1'-0"



ELEVATION D-D
SCALE 1/4"=1'-0"



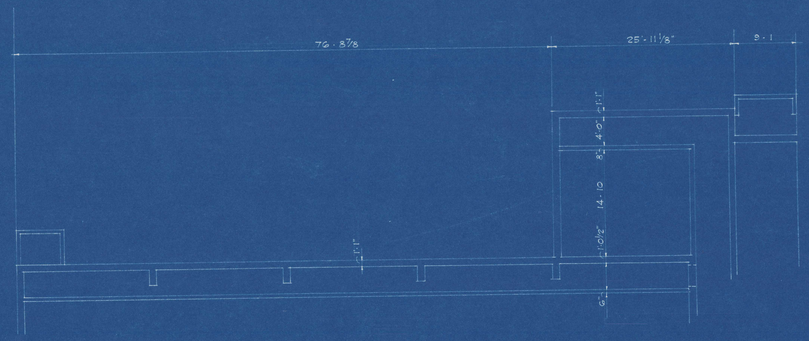
DETAIL- PLATFORM IN MUSIC ROOM
SCALE = 1/2 FULL SIZE



PLAN OF MUSIC ROOM
SCALE 1/4"=1'-0"

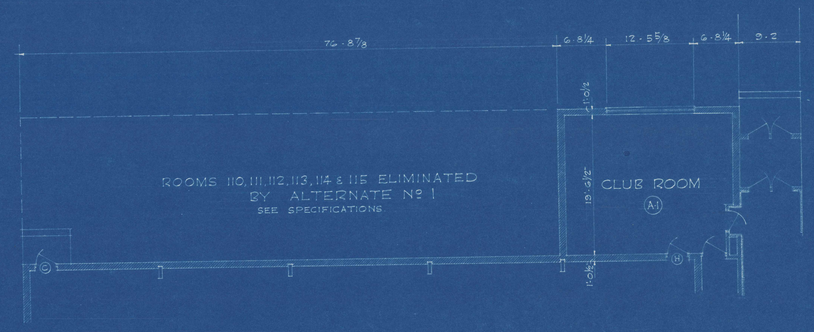
HIGH SCHOOL ADDITION
FOR
CAMBRIDGE, NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR	JOB Nº 614 MAY 1951	SHEET Nº A-9



PART FOUNDATION PLAN — ALTERNATE Nº 1

SCALE 1/8" = 1'-0"

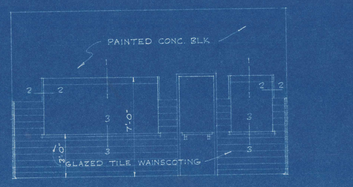


PART FIRST FLOOR — ALTERNATE Nº 1

SCALE 1/8" = 1'-0"

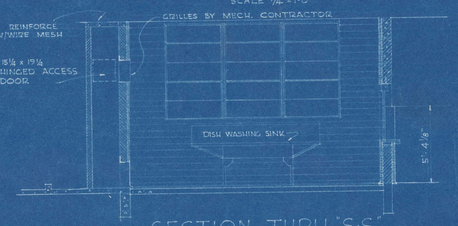
PLAN

SCALE 1/4 = 1'-0"



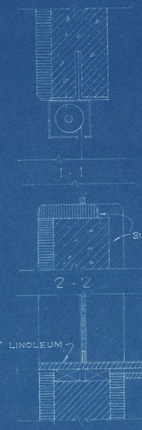
ELEVATION "R"

SCALE 1/4 = 1'-0"



SECTION THRU "S-S"

SCALE 1/4 = 1'-0"

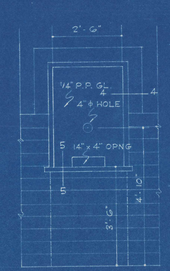


3 - 3

DETAILS — SERVING & DISH RETURN WINDOWS

SCALE 1 1/2 = 1'-0"

DETAILS OF KITCHEN



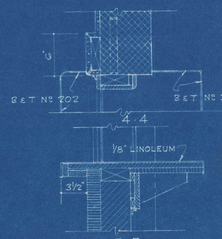
ELEVATION

SCALE 1/2" = 1'-0"



SECTION

SCALE 1/2" = 1'-0"

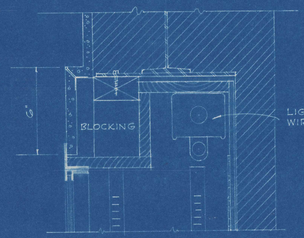


5 - 5

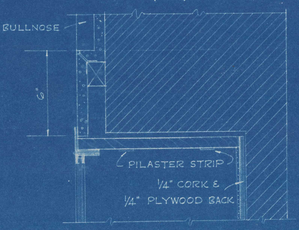
SECTIONS

SCALE 1 1/2" = 1'-0"

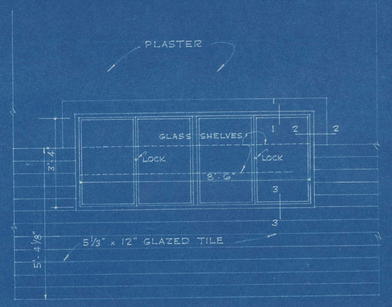
DETAILS — TICKET WINDOW



1 - 1

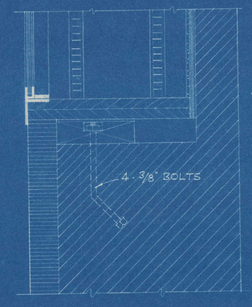


2 - 2



ELEVATION

SCALE 1/2" = 1'-0"



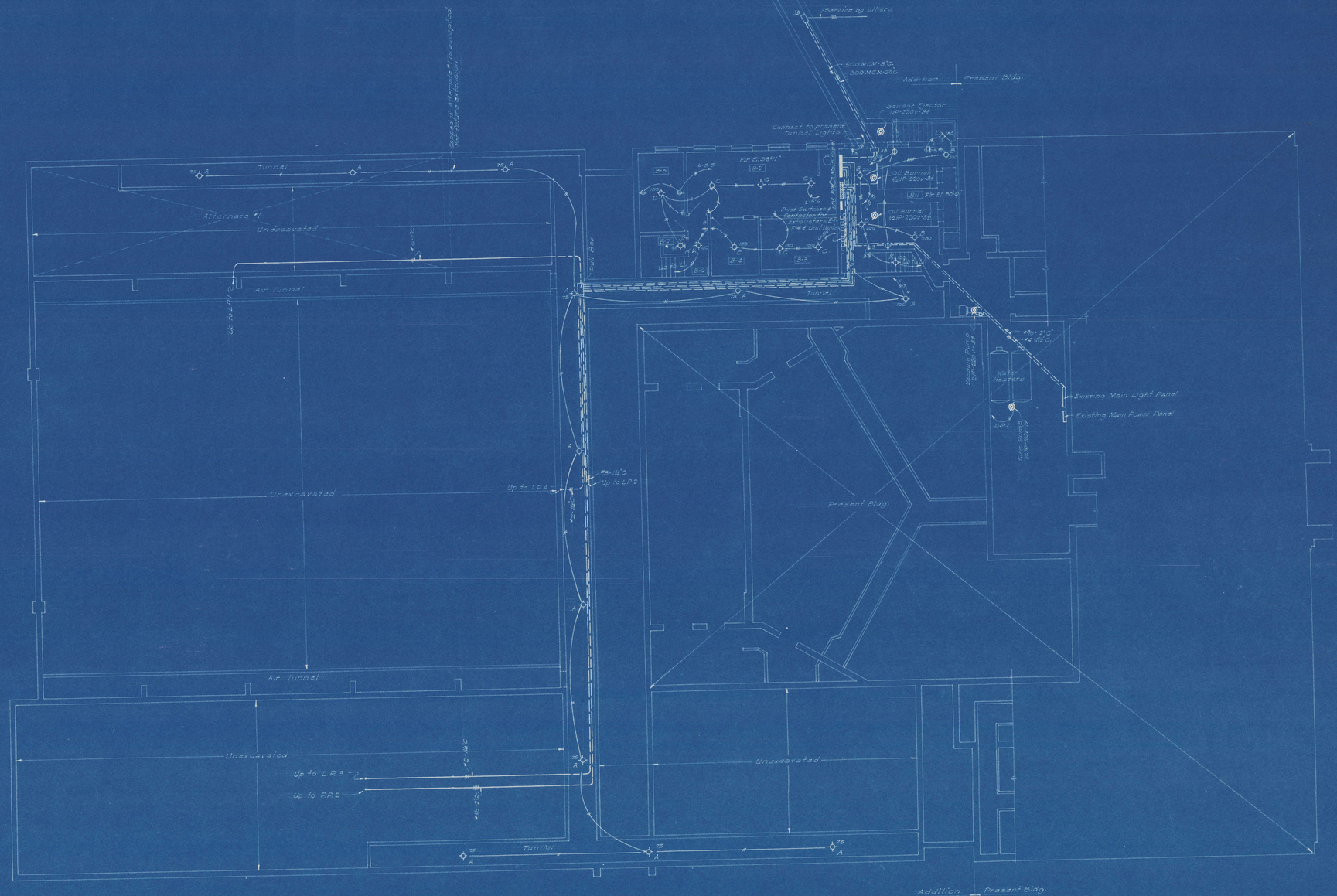
3 - 3

SECTIONS

SCALE 3" = 1'-0"

DETAILS — DISPLAY CABINETS

HIGH SCHOOL ADDITION FOR CAMBRIDGE, NEBR.		
HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB Nº 614 MAY 1951	SHEET Nº A-10



TUNNEL & BASEMENT PLAN

Scale 1/8"=1'-0"

NORTH

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB No. 614 MAY 1951	SHEET No. E-1

H.E. Seymour, Consulting Engineer
Kilpatrick Bldg. Omaha Nebr.

LOCATION	LOAD-WATTS	WIRE-SIZE	CONDUIT-SIZE	BRANCH-NO	CIRCUIT-NO	FEEDER-NO	CONDUIT-SIZE	LOAD-WATTS	LOCATION
111, 113, 114, 115 & Ext.	750	12	3/4	1	2	00	1 1/2	500	111 Exhaust Hood
Unit Htr. #1	1kw	"	"	2	4	"	"	500	110 Rec. a
Recpts. 111	900	"	"	3	6	"	"	900	110 " b
" Refrig. 111	1kw	"	"	4	8	"	"	500	110 " c
" 110	900	"	"	5	10	"	"	500	110 " a
Spare		"	"	6	12	"	"		Spare
"		"	"	7	14	"	"		"

NLAB 14-3L100

LP1

108 Lts (a), 117, 124, 125 Ext.	900	12	3/4	1	2	00	1 1/2	750	127, 109 B-C
108 Lts (a), 127, Ext.	600	"	"	3	6	"	"	750	108, 106
103, 104, 102	750	"	"	5	10	"	"	600	103, 101
201	450	"	"	7	14	"	"	900	128 Lts (a)
" 134, 202, Ext.	850	"	"	9	18	"	"	600	128 Lts (d)
129, 130, 131, 132	750	"	"	11	22	"	"	600	128 Lts (c)
Recpts. 106, 108	600	"	"	13	26	"	"	600	Recpts. 103, 128
" 129, 130	600	"	"	15	30	"	"	400	" 128
Spare		"	"	17	34	"	"		Spare
"		"	"	19	38	"	"		"
"		"	"	21	42	"	"		"

NLAB 22-3L200

LP2

116 Lts (a)	600	12	3/4	1	2	00	1 1/2	550	116 Lts (a), Ext.
115 Lts (b)	900	"	"	3	6	"	"	600	115 Lts (a)
113 Lts (c)	900	"	"	5	10	"	"	600	115 Lts (c)
Unit Htr. #3	1kw	"	"	7	14	"	"	1kw	Unit Htr. #2
120, 121, 125, 124, 126	700	"	"	9	18	"	"	600	128 Lts (a)
Recpts. 115	600	"	"	11	22	"	"	600	128 Lts (b)
" 115	400	"	"	13	26	"	"	600	128 Lts (c)
" 119	400	"	"	15	30	"	"	400	Recpts. 119
" 121, 128	900	"	"	17	34	"	"		Spare
Spare		"	"	19	38	"	"		"
"		"	"	21	42	"	"		"
"		"	"	23	46	"	"		"

NLAB 24-3L200

LP3

112 Lts (a)	1500	12	2@3/4	1	2	00	2 1/2	1800	112 Lts (c)
112 " (b)	1800	"	"	3	6	"	"	1500	112 Lts (d)
112 " (a)	1800	"	"	5	10	"	"	1800	112 " (g)
112 " (f)	1800	"	"	7	14	"	"	1500	112 " (h)
112 " (j)	1800	"	"	9	18	"	"	7000	Switchboard
112 " (j)	1800	"	"	11	22	"	"	600	Recpts. 112 & Blk.
Spare		"	1@3/4	13	26	"	"		Spare
"		"	"	15	30	"	"		"

NLAB 16-3L100

LP4

B-3, B-4	450	12	3/4	1	2	00	1 1/2	675	B-2, B-5, B-7,
B-1	900	"	"	3	4	"	"	900	Minnie Ha Ha
Recpts. B-5	900	"	"	5	6	"	"	400	Recpts. B-1
Circ. Pump	1/6 HP	"	"	7	8	"	"		Spare
Spare		"	"	9	10	"	"		"

NLAB 10-3L050

LP5

FEEDS	ZONE	WIRE	FUSE	SW.	PHS.	CKT.	SW.	FUSE	WIRE	ZONE	FEEDS
LP1	1	#6	55	60	3	1	100	90	#8	1/2	LP2
LP3	1/2	#2	135	100	3	4	100	90	#2	1/2	LP4
LP5	1/2	#8	40	30	3	6	200	175	#3	2	Existing Panel

225 Hinged Door Type

MAIN LIGHT PANEL

FEEDS	ZONE	WIRE	FUSE	SW.	PHS.	CKT.	SW.	FUSE	WIRE	ZONE	FEEDS
Welder	1/2	10	30	30	1	2	30	30	10	1/2	Welder
Welder	1/2	10	30		3	4	20	20			Spare 6HP
Spare 3HP			28	"	3	6	30	28			" 3HP
" 7½HP			15	"	1	7	30	15			" 7½HP
" 1HP			15	"	1	8	30	15			" 1HP

Note! All Power Wiring in Rm 118 to be under separate contract.

10-3P. Drawer Type

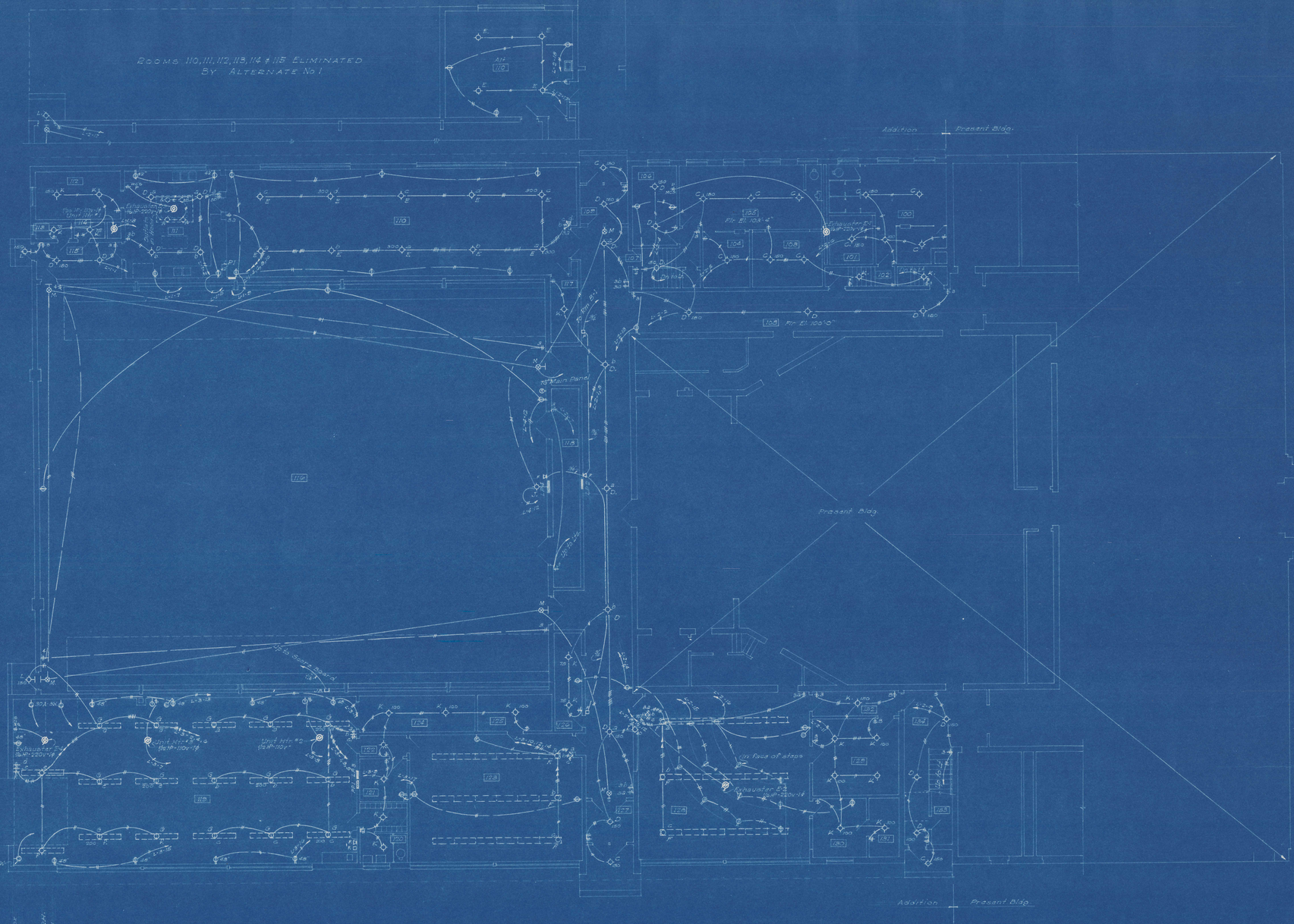
PP1

FEEDS	ZONE	WIRE	FUSE	SW.	PHS.	CKT.	SW.	FUSE	WIRE	ZONE	FEEDS
Power Panel #1	2	1/0	150	200	1	2	100	65	4	1½	Existing R. Panel
Circ. Pump 1HP	1½	12	15	30	1	4	30	20	12	1½	Vac. Pump 2HP
Oil Burner ½HP	"	"	"	"	1	6	"	15	"	"	Oil Burner ½HP
Unit Vent ¼HP	"	"	"	"	1	8	"	"	"	"	Unit Vent ¼HP
Exhaust Fan E-1 & E-2 ½HP	1½	12	15	30	3	10	30	15	12	1½	Exhaust Fan E-3 & E-4 ½HP
Spare			30	"	1	12	"	20			Spare

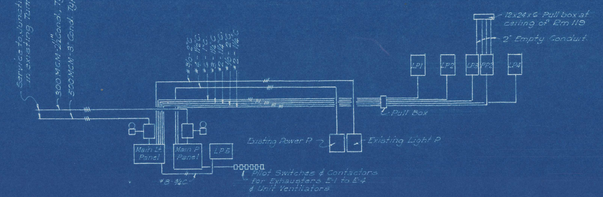
9-3P plus 6 DP Hinged Door Type

MAIN POWER PANEL

LIGHT & POWER PANEL DIAGRAMS



FIRST FLOOR PLAN
Scale 1/8"=1'-0"

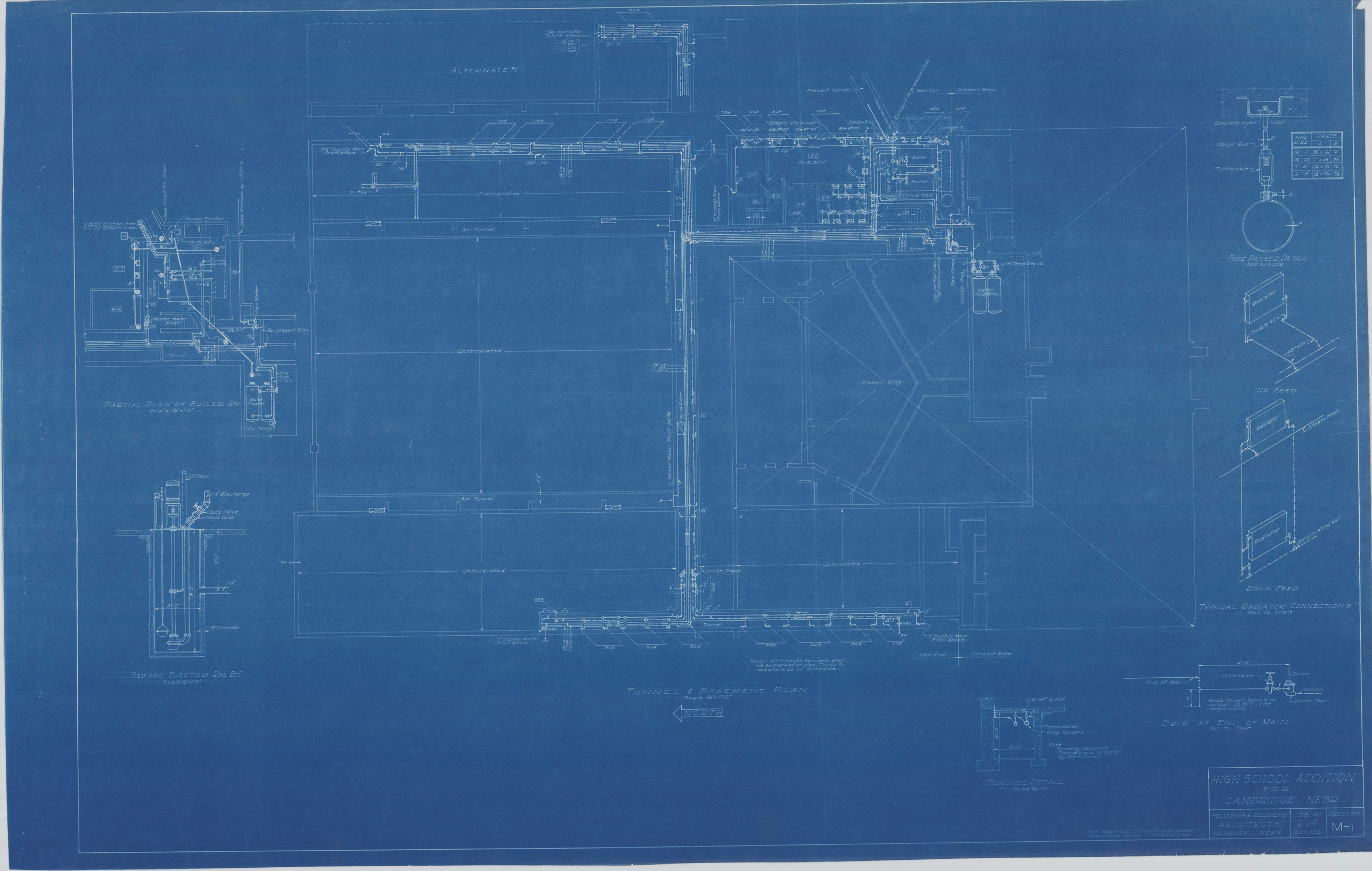


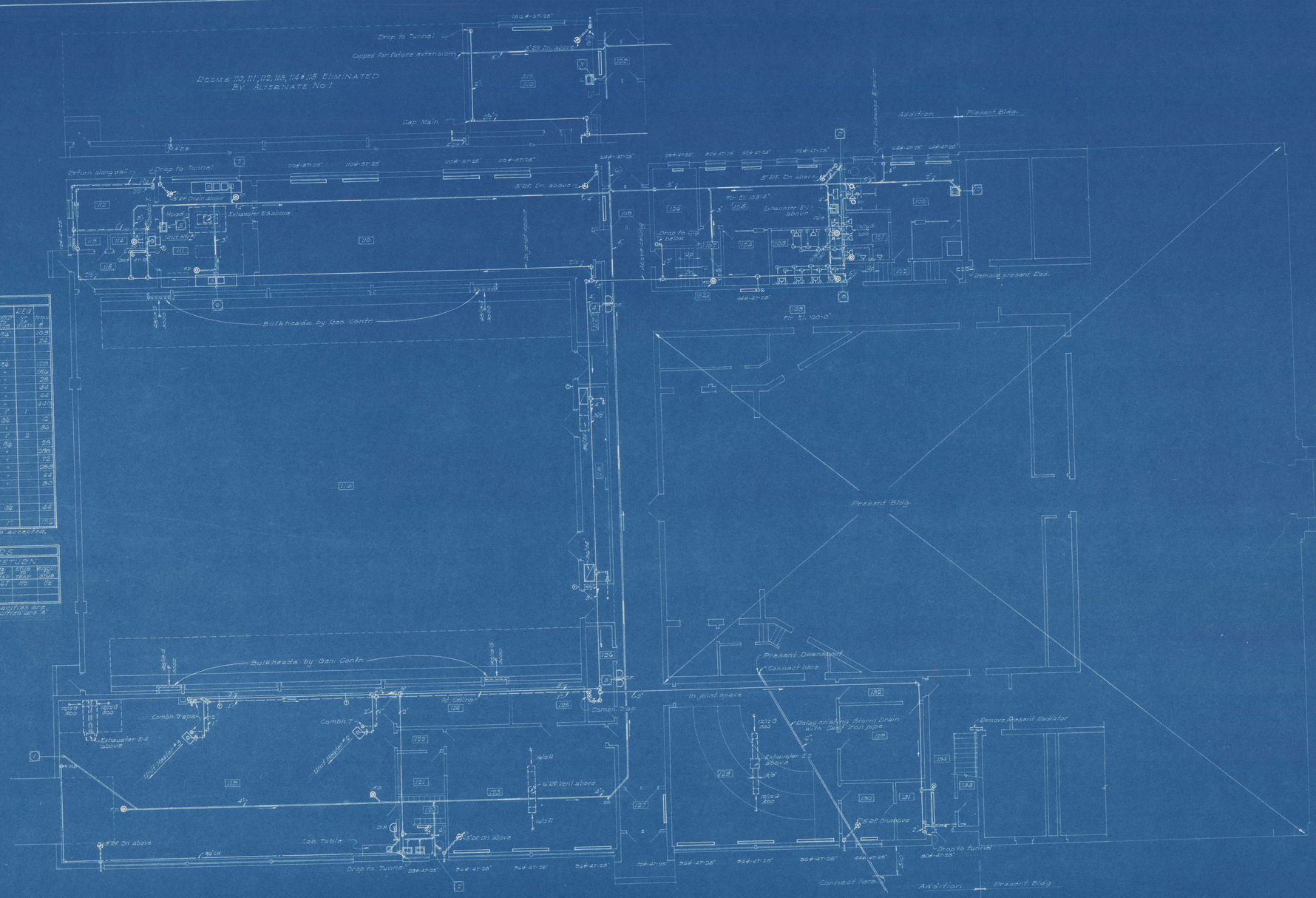
CONDUIT RISER DIAGRAM
No Scale

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB No. 347 MAY 1951	SHEET No. E-2

H.B. Seymour, Consulting Engineer Kilpatrick Bldg. Omaha, Nebr.


ALTERNATE #1
Unexcavated
Air Tunnel
Present Tunnel
Addition
Present Bldg.
Tunnel
Water Heaters
Present Bldg.
Combn Traps
Note: All runouts to risers shall be as marked on plan. Those to radiators as on schedule.
Addition
Present Bldg.
TUNNEL & BASEMENT PLAN
Scale 1/8"=1'-0"
NORTH
PARTIAL PLAN OF BOILER RM.
Scale 1/8"=1'-0"
Master Water Mixer
Sewage Ejector
Circ. Pump
SEWAGE EJECTOR RM. B-1
Scale 1/2"=1'-0"
Gate Valve
Check Valve
Turnbuckles
Ring Hangers
Note
Tunnel by Gen. Contr.
Channels and hangers by Mech. Contr.
TUNNEL DETAIL
Scale 1/8"=1'-0"
PIPE HANGER DETAIL
Not to Scale
Concrete Insert
Hanger Rod
Turnbuckle
Radiator
Double side
UP FEED
Radiator
Steam Main
Radiator
Return along wall
DOWN FEED
TYPICAL RADIATOR CONNECTIONS
Not to Scale
End of Main
Gate Valve
Union
Return
Combn. Trap
DRIP AT END OF MAIN
Not to Scale
HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.
HELLEBERG & HELLEBERG
ARCHITECTS
KEARNEY, NEBR.
JOB No
614
MAY 1951
SHEET No.
M-1
H.S. Seymour, Consulting Engineer
Kilpatrick Bldg. Omaha, Nebr.



FIRST FLOOR PLAN
Scale 1/8" = 1'-0"

SCHEDULE OF DIRECT RADIATION

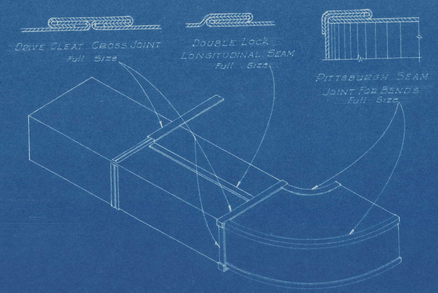
ROOM No	RADIATORS No OF RADS	RADIATORS SIZE OF RADS	SUPPLY TYPE OF VALVE	SUPPLY SIZE OF VALVE	SUPPLY STUB TO VALVE	SUPPLY RUNOUT TO STUB	RETURN SIZE OF TRAP	RETURN No OF TRAP	RETURN STUB TO TRAP	RETURN RUNOUT TO STUB	REG. No OF STATS	TOTAL #
B-2	3	36#-4T-25"	W.H.	3/4	3/4	1"	1/2	502	1/2	3/4		108
B-5	1	24#-4T-25"	"	"	"	"	"	"	"	"		24
100	2	64#-4T-25"	W.H.	3/4	3/4	1"	1/2	502	1/2	3/4		128
105	3	52#-4T-25"	"	"	"	"	"	"	"	"		156
106	1	28#-4T-25"	"	"	"	"	"	"	"	"		28
108	1	44#-4T-25"	"	"	"	"	"	"	"	"		44
109	1	64#-4T-25"	"	"	"	"	"	"	"	"		64
110	4	110#-5T-25"	"	"	"	"	"	"	"	"		440
111	1	Unit Htr #1	Gate	2"	2"	2"	1"	20267	1"	1"	1	
113	1	12#-4T-25"	W.H.	3/4	3/4"	1"	1/2	502	1/2	3/4		12
115	1	36#-4T-25"	"	"	"	"	"	"	"	"		36
119	2	Unit Htr #3	Gate	2"	2"	2"	1"	20267	1"	1"	2	
120	1	28#-4T-25"	W.H.	3/4	3/4"	1"	1/2	502	1/2	3/4		28
123	3	96#-4T-25"	"	"	"	"	"	"	"	"		288
127	1	72#-4T-25"	"	"	"	"	"	"	"	"		72
128	3	96#-4T-25"	"	"	"	"	"	"	"	"		288
130	1	44#-4T-25"	"	"	"	"	"	"	"	"		44
134	1	80#-4T-25"	"	"	"	"	"	"	"	"		80
202	1	44#-4T-25"	W.H.	3/4	3/4"	1"	1/2	502	1/2	3/4		44
1150	1	186#-6T-25"	W.H.	1"	1"	1 1/4	3/4	513	3/4	1"		186

Radiators in Rms. 110 to 115 will be omitted if Alternate #1 is accepted, and the radiator in Rm. Alt 110 will be included.

SCHEDULE OF UNIT VENTILATORS

ROOM No	UNIT No OF UNITS	UNIT CATALOG No	UNIT A.S.H.A.	UNIT CAP. B	UNIT CAP. A	SUPPLY TYPE OF VALVE	SUPPLY SIZE OF VALVE	SUPPLY STUB TO VALVE	SUPPLY RUNOUT TO STUB	RETURN SIZE OF TRAP	RETURN No OF TRAP	RETURN STUB TO TRAP	RETURN RUNOUT TO STUB
201	2	8-60-3	6000	561	1005	Auto	2	2	3"	1 1/2	1267	1 1/2	1 1/2

The catalogue number refers to Nesbitt Thermovent. Capacities are based on 75% outside air at minus 10 degrees F. Air capacities are "A" ratings at 2# Steam.

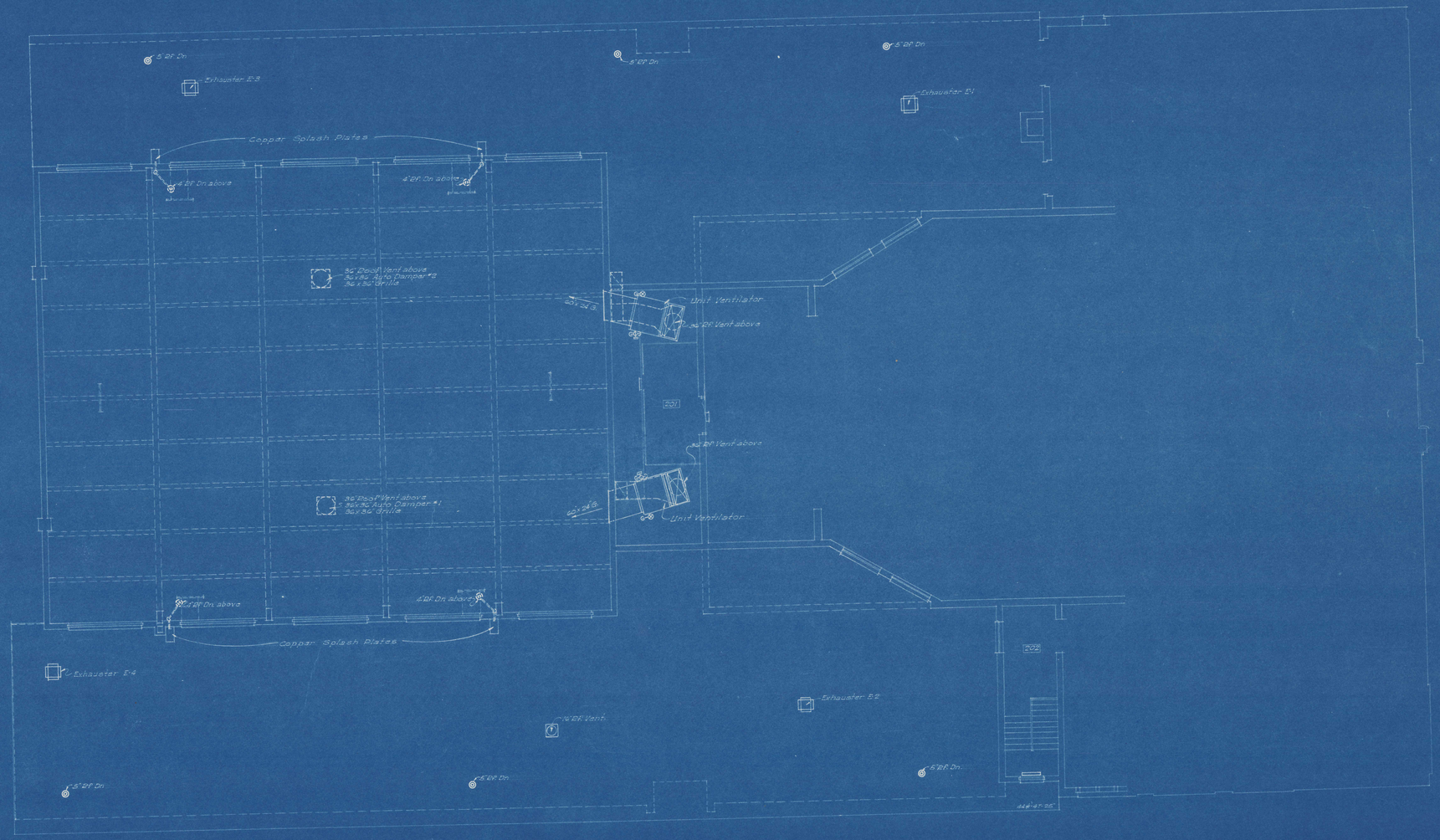


SHEET METAL DUCT DETAIL

M.S. Seymour, Consulting Engineer
Kilpatrick Bldg. Omaha, Nebr.

HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.

HELLEBERG & HELLEBERG ARCHITECTS KEARNEY, NEBR.	JOB No 614 MAY 1951	SHEET No M-2

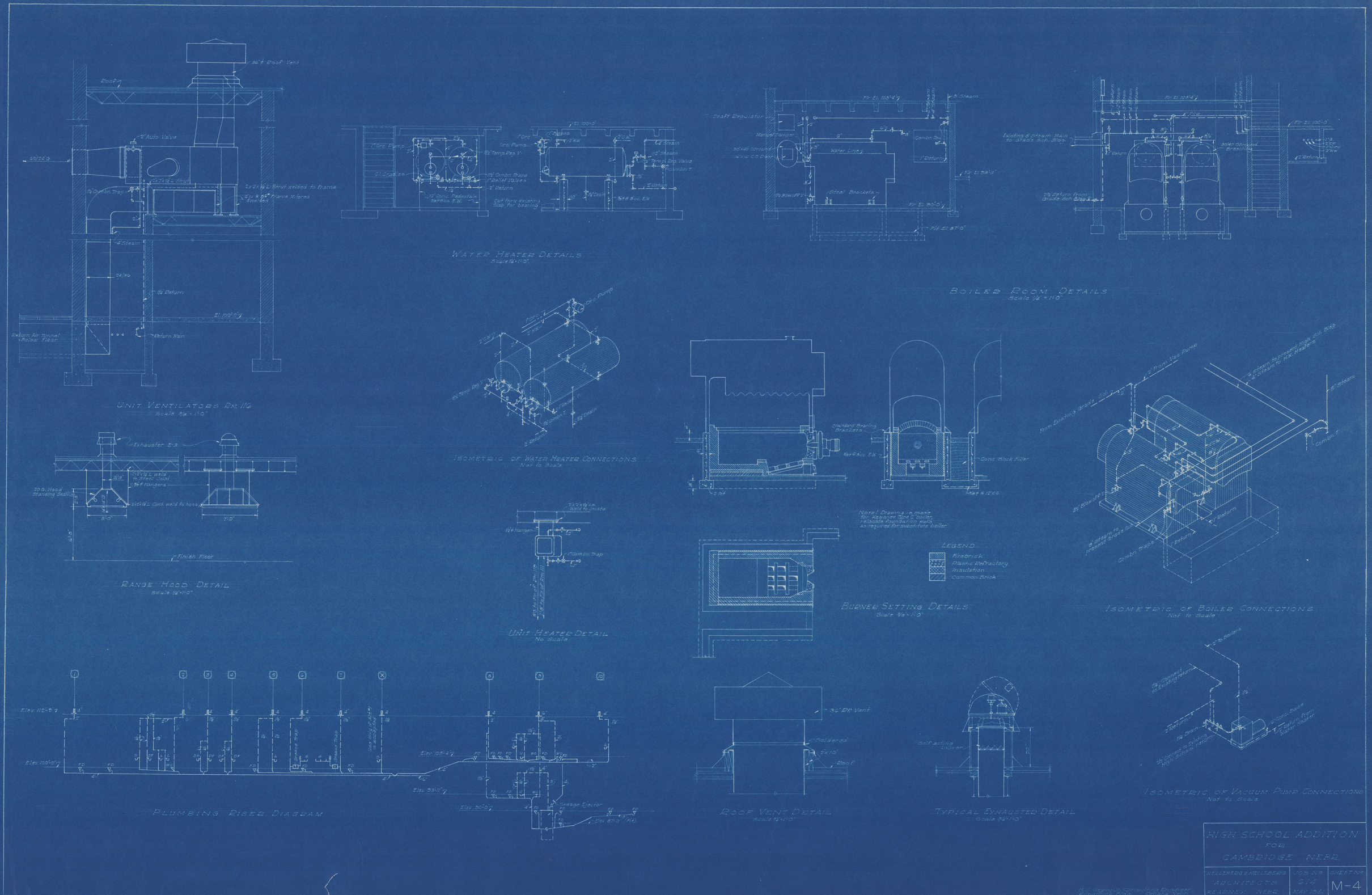


CLERESTORY & ROOF PLAN
Scale 1/16"

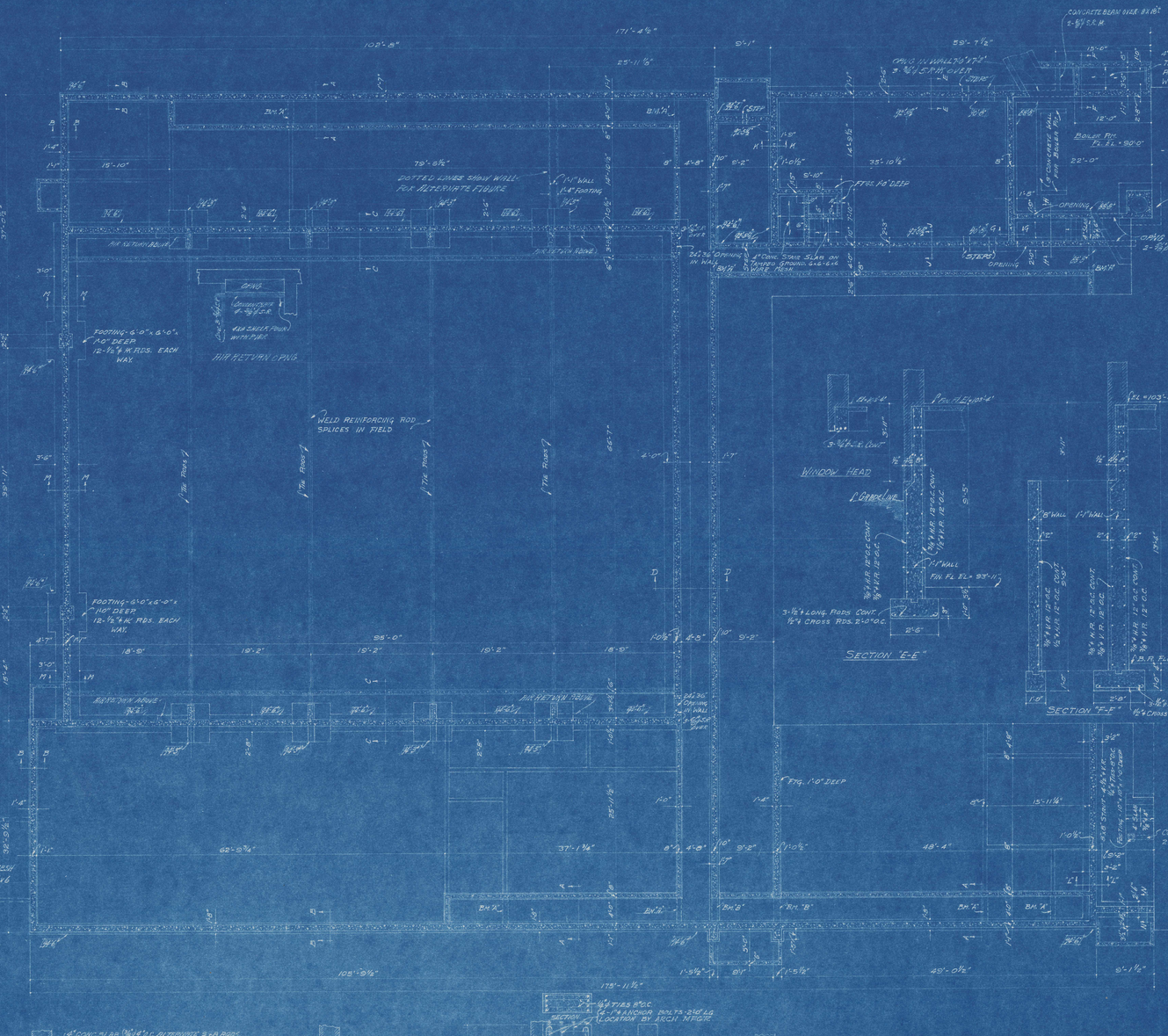
HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.

KELLEBERG & KELLEBERG ARCHITECTS KEARNEY NEBR.	JOB No 614 MAY 1951	SHEET No M-3

H.G. Baumann Heating Engineer
Brandeis Bldg. Omaha, Nebr.



UNIT VENTILATORS RM. 116
Scale 3/8" = 1'-0"
WATER HEATER DETAILS
Scale 1/4" = 1'-0"
BOILER ROOM DETAILS
Scale 1/4" = 1'-0"
ISOMETRIC OF WATER HEATER CONNECTIONS
Not to Scale
RANGE HOOD DETAIL
Scale 1/4" = 1'-0"
UNIT HEATER DETAIL
No Scale
BURNER SETTING DETAILS
Scale 3/8" = 1'-0"
LEGEND
Firebrick
Plastic Refractory
Insulation
Common Brick
ISOMETRIC OF BOILER CONNECTIONS
Not to Scale
PLUMBING RISER DIAGRAM
ROOF VENT DETAIL
Scale 3/4" = 1'-0"
TYPICAL EXHAUSTER DETAIL
Scale 3/4" = 1'-0"
ISOMETRIC OF VACUUM PUMP CONNECTIONS
Not to Scale
HIGH SCHOOL ADDITION
FOR
CAMBRIDGE NEBR.
HELLEBERG & HELLEBERG
ARCHITECTS
KEARNEY NEBR.
JOB No
614
MAY 1951
SHEET No
M-4



JOIST SCHEDULE				
MARK	WIDTH	REINFORCEMENT T.R.	REINFORCEMENT B.R.	REMARKS
A	5"	1-⅝ø	1-⅝ø	
B	12"	2-⅝ø	2-⅝ø	Extend over stairway
C	5"	1-⅝ø	1-⅝ø	
D	6"	1-⅝ø	1-⅝ø	
E	11"	2-⅝ø	2-⅝ø	
F	5"	1-⅝ø	1-⅝ø	

NOTES:-
1. ALL CONCRETE TO BE 2500 P.S.I. IN 28 DAYS.
2. ALL WALLS AND FOOTINGS TO REST ON SOLID ORIGINAL SOIL, NO FILL.
3. EACH COLUMN FOOTING TO BE POURED COMPLETE IN ONE OPERATION.
4. NO HORIZONTAL JOINTS TO BE ALLOWED IN POURING FOOTINGS, WALLS OR SLABS.
5. ALL SLABS TO HAVE ALTERNATE RODS BENT. BEND RODS FOR CONTINUITY WHEREVER POSSIBLE.
6. TEMPERATURE RODS FOR ALL SLABS TO BE ⅜ø @ 18" O.C.
7. RODS MARKED CONTINUOUS TO LAP 3'-0" AT SPLICES AND RETURN 2'-0" AROUND CORNERS.
8. FIGURES SHOWN THUS (00.0) ARE ELEVATIONS OF THE BOTTOMS OF FOOTINGS.

NORTH

FOUNDATION PLAN

HIGH SCHOOL ADDITION FOR CAMBRIDGE, NEBR.

HELLEBERG & HELLEBERG ARCHITECTS — KEARNEY —

FRED W. RICE STRUCTURAL ENGINEER — OMAHA —

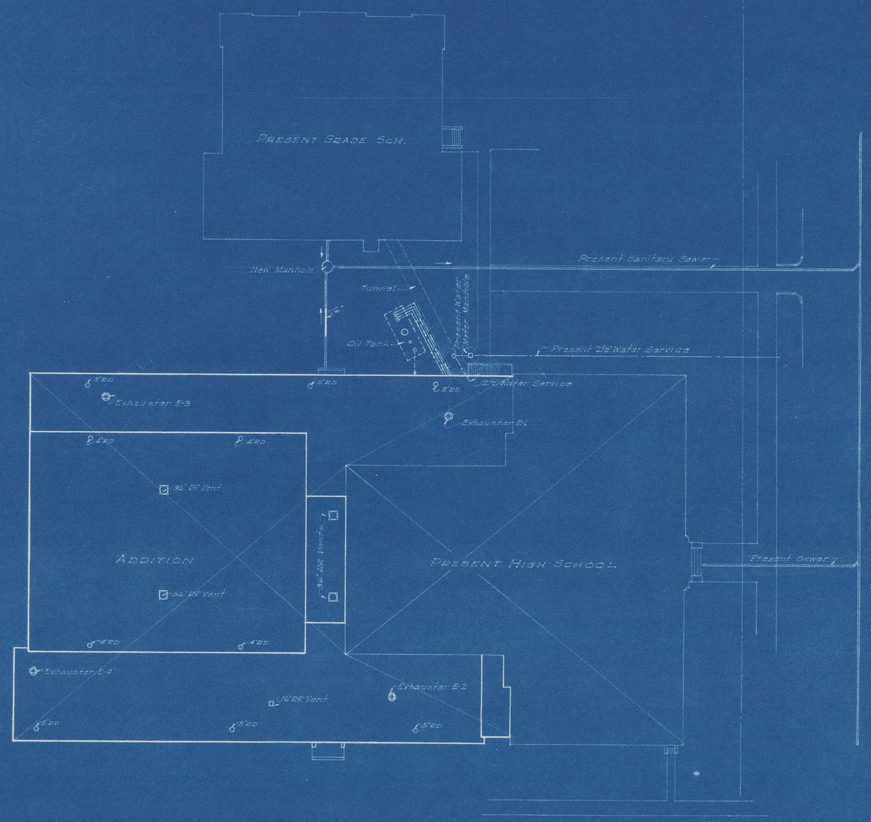
SHEET NO. S-1

Electric Wiring Symbols

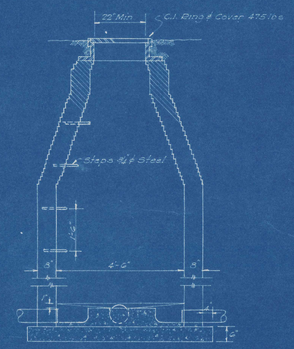
mo b	Ceiling Light Outlet 100w Switched Promb.	LP2	Light Panel & No
A	Letter refers to Fixture Schedule	JB	Junction Box
	Bracket Light Outlet	2-1-2A	Circuit No
	Duplex Convenience Receptacle		Branch Circuit, Concealed Above
	Special Purpose Outlet		Branch Circuit, Concealed Below
	Exit Light		Feeder, Concealed Above
	Single Pole Wall Switch		Feeder, Concealed Below
3	3 Way Wall Switch		Feeder, Exposed
4	4 Way Wall Switch		Indicates Number of Wires
MCB	Momentary Contact Sw.		Telephone Outlet
	Safety Switch	F	Fire Alarm Horn.
	Motor Outlet	F	Fire Break Glass Station
PP1	Power Panel & No.		
	Clock Outlet		

Heating, Plumbing & Ventilating Symbols

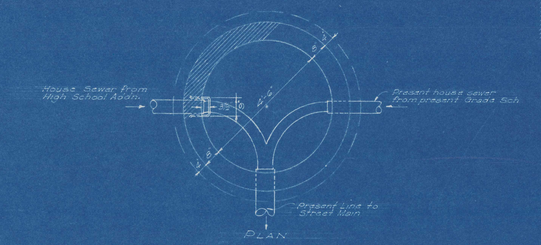
	Steam Supply		Gate Valve
	Steam Return		Check Valve
	Cold Water Supply		Diaphragm Valve
	Hot Water Supply or Circulatg		Low Pressure Steam Trap
	Gas		Thermostat
	Oil Supply	FD RD	Floor Drain, Roof Drain
	Oil Return	WH	Wall Hydrant
	Sanitary Drain	DF	Drinking Fountain
	Eccentric Reducer	L	Lavatory
	Connection from side of main	S	Sink
	Connection from top of main		Urinal
	Connection from bottom of main		Water Closet
	Drop in main		Grease Trap
	Rise in main		Shower Head
	Heating Riser Number		Supply Air Duct, Section
	Plumbing Riser Number		Exhaust or Return Air Duct
	Stop & Drain		Supply Register (R) or Grille (J)
	Globe Valve		Return Grille (G) or Register (R)
	Angle Valve		



Plot Plan
Scale 1"=20'-0"
NORTH

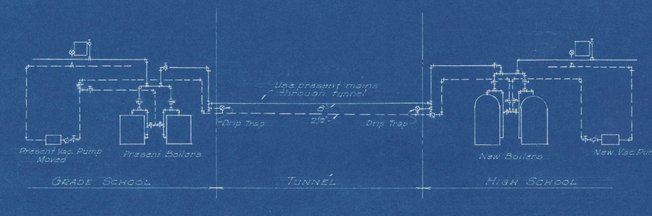


Section A-A

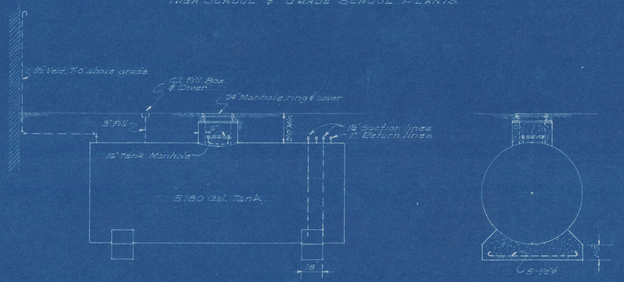


Plan

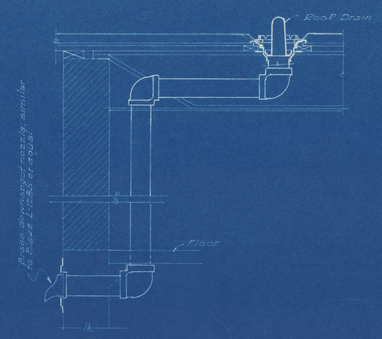
Manhole Details
Scale ½"=1'-0"



Schematic Diagram of Interconnections
High School & Grade School Plants



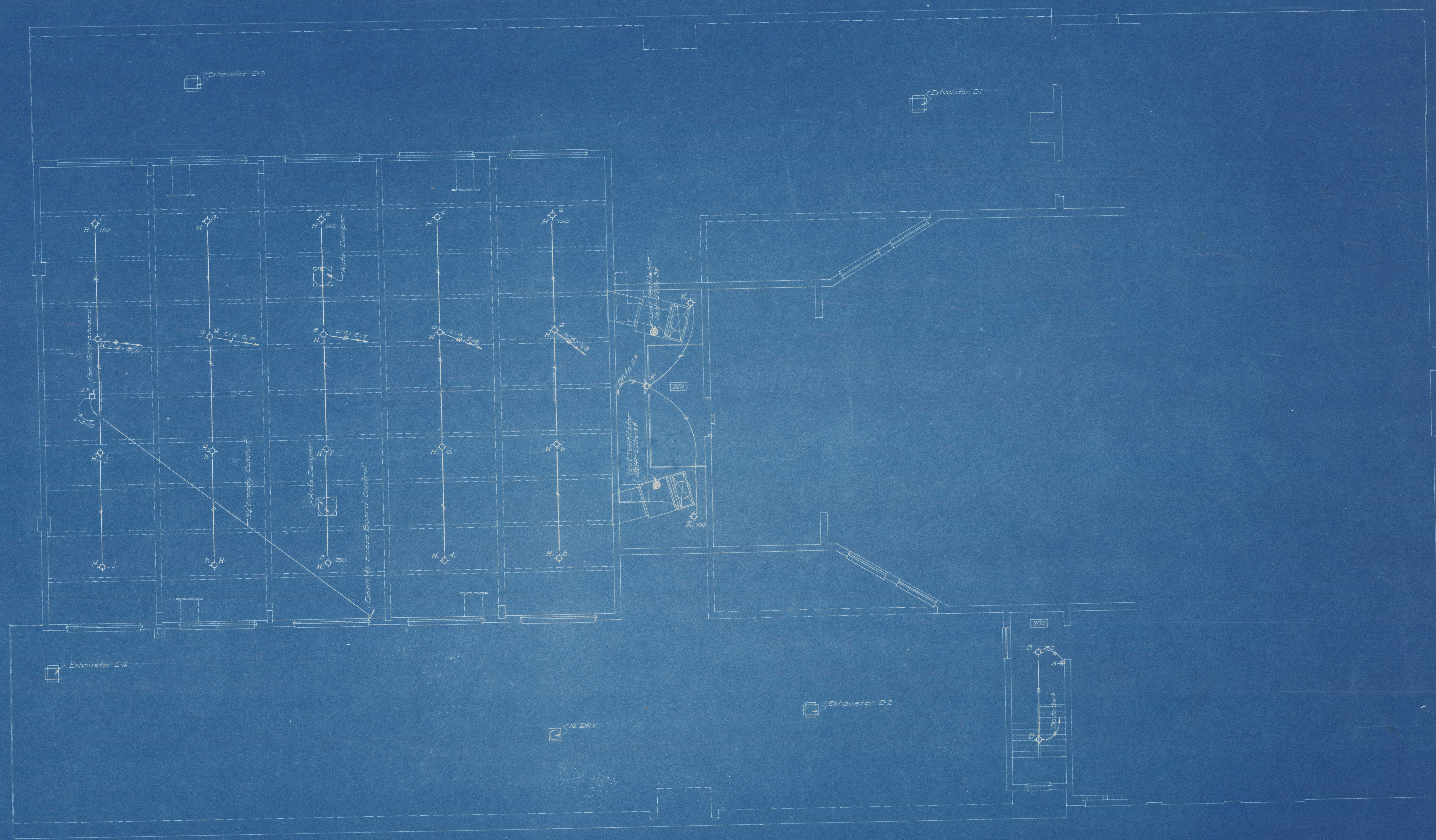
Oil Tank Detail
Scale ¼"=1'-0"



Typical Downspout Detail
Scale ¾"=1'-0"

H. S. Seymour, Consulting Engineer
Kilpatrick Bldg. Omaha, Nebr.

HIGH SCHOOL ADDITION FOR CAMBRIDGE NEBR.		
HELLEBERG & HELLEBERG ARCHITECTS KEARNEY NEBR.	JOB No 614 MAY 1951	SHEET No 0



CLERESTORY & ROOF PLAN
Scale 1/8"=1'-0"

H. S. Seymour, Consulting Engineer
Kilpatrick Bldg. Omaha, Nebr.

Basic Measurement Data

Length of track along curb = 440.00'
Tangent Length, each side = 345.66'
Radius of Curve = 114' from Curb = 100'
Length of Curve = 114' from Curb = 314.16'
Central Angle of Curve, each = 180°

Length of running lanes, as follows:
Lane No. 1 (Nearest to Curb), one foot from curb. All other lanes, eight inches from lane marker adjacent to runners left side.

Lane No.	Chord Length for Layout with Tape. Beg. of Curb	For Arc 60'
1	102.50	111
2	104.00	59.16
3	109.50	59.21
4	113.00	59.26
5	116.50	59.31
6		59.36

LEGEND

Existing 6" Curb (Use in place) ——
" " " (Remove) — — —
Build 6" Conc. Curb ——

Cambridge School System

Athletic Field

DATE: July 1969

MOUSEL & WRIGHT
Consulting Engineers
McCOOK, NEBRASKA

SHEET 1/1

SCALE 1" = 20'

Typical Section of Running Surface

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA
DISTRICT 21

MATERIALS

- EARTH
- DRAINAGE FILL
- CONCRETE
- STONE
- BRICK
- CERAMIC & QUARRY TILE
- CONC MASONRY UNIT
- LT WT CONC MAS UNIT
- GLAZED STRUCT UNIT
- PLYWOOD
- PARTICLE BOARD
- ARCH WOODWORK
- DIMENSION LUMBER
- TERAZZO
- GYP BD OR PLASTER
- ACOUSTIC TILE
- METAL
- FLEXIBLE INSUL
- RIGID INSUL
- STEEL STUD PARTITION
- ST STUD SOUND WALL
- WOOD STUD PARTITION

REFERENCE

- detail no. / sheet where detail is found
- TITLE
- 4 — SECTION
- DOOR NO.
- ROOM & STAIR NO.
- WINDOW TYPE
- EQUIPMENT NO.
- COLUMN LINE

SITE

- PROPERTY LINE
- PROPERTY CORNER
- BASE LINE
- STREET CENTER LINE
- CURB LINE
- 91 — EXISTING CONTOUR
- 91 — NEW CONTOUR
- 100 — NEW SPOT ELEVATION

SHEET INDEX

C-1	SURVEY
C-2	SITE PLAN, ROOF PLAN & DETAILS
S-1	FOUNDATION PLAN
S-2	ROOF FRAMING PLAN
S-3	STRUCTURAL DETAILS
D-1	DEMOLITION FLOOR PLAN & DEMOLITION PHOTOGRAPHS
A-1	FLOOR PLAN, FINISH SCHEDULE & DETAILS
A-2	ELEVATIONS & BUILDING SECTIONS
A-3	WALL SECTIONS & DETAILS
A-4	REFLECTED CEILING PLAN, WALL SECTIONS & DETAILS
A-5	DOOR SCHEDULE, ELEVATIONS & DETAILS
ME-1	UTILITY SITE PLAN, DETAILS, SCHEDULES
M-1	PLUMBING FLOOR PLAN
M-2	H.V. FLOOR PLAN
M-3	MECHANICAL DETAILS
M-4	WASTE & VENT RISER DIAGRAM & DETAILS
E-1	LIGHTING FLOOR PLAN
E-2	POWER & SPECIAL SYSTEMS FLOOR PLAN
E-3	POWER RISER DIAGRAM, DETAILS & SCHEDULES

ARCHITECTS PLUS

ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS

OMAHA
10407 Devonshire
suite 236, 68114
402-393-5220

SCOTTSBLUFF
1620 Broadway
69361
308-632-2002

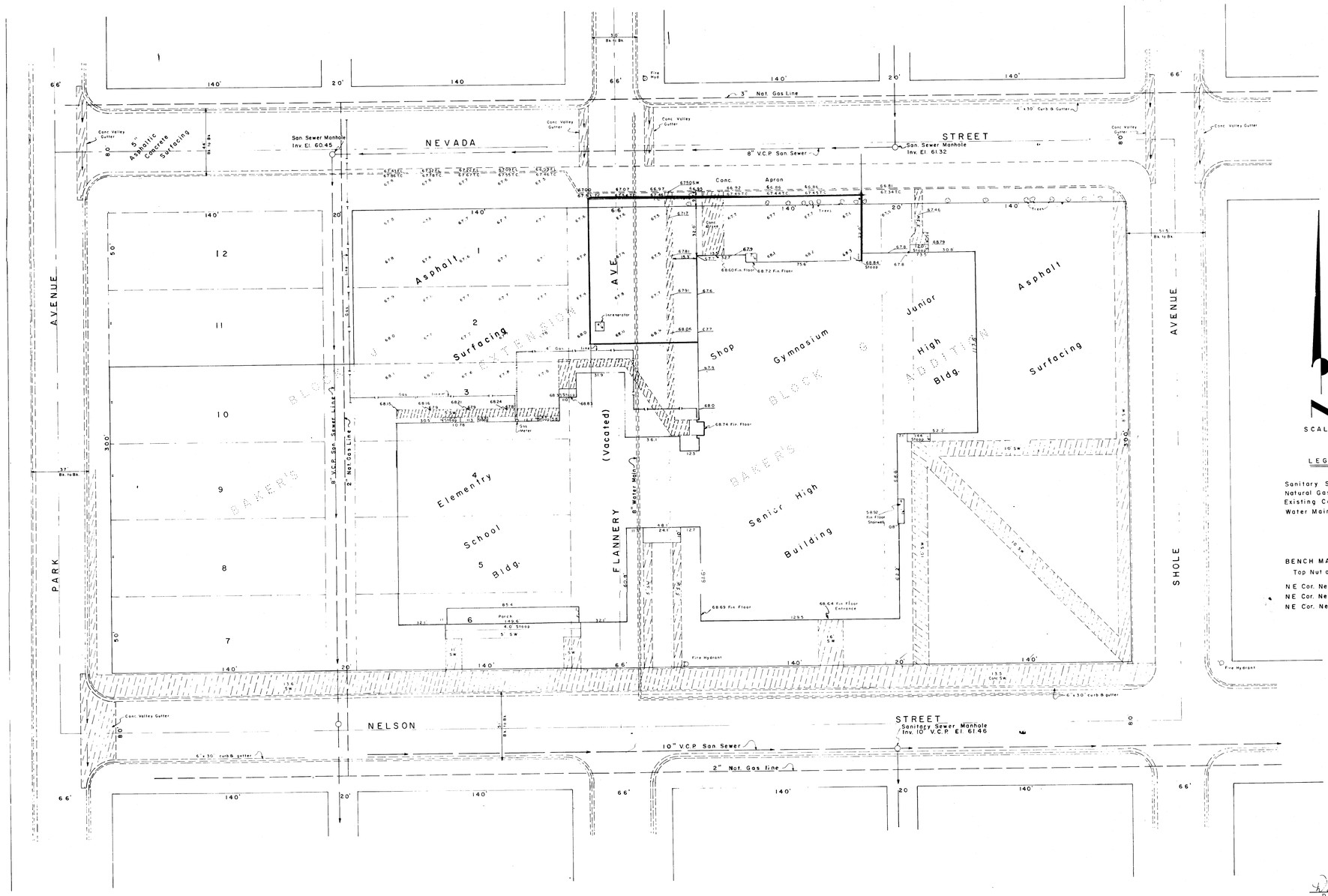
KEARNEY
18 West 23rd
68847
308-234-1873

AREA _____ CUBAGE _____

DATE _____ JOB NO. _____ SET NO. 6

CAMBRIDGE PUBLIC SCHOOLS
SITE SURVEY

CAMBRIDGE, FURNAS CO., NEBRASKA



LEGEND

Sanitary Sewer
Natural Gas
Existing Conc. Water Main

BENCH MARKS:

Top Nut of Fire Hydrants at:

NE Cor. Nevada St. & Flannery Ave. Elev. 2269.10
NE Cor. Nelson St. & Flannery Ave. Elev. 2268.46
NE Cor. Nelson St. & Shole Ave. Elev. 2269.72

February 16, 1979

Darrell W Burke
Burke Surveying Co.
McCook, Nebraska

NEBRASKA REGISTERED LAND SURVEYOR LS-301

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

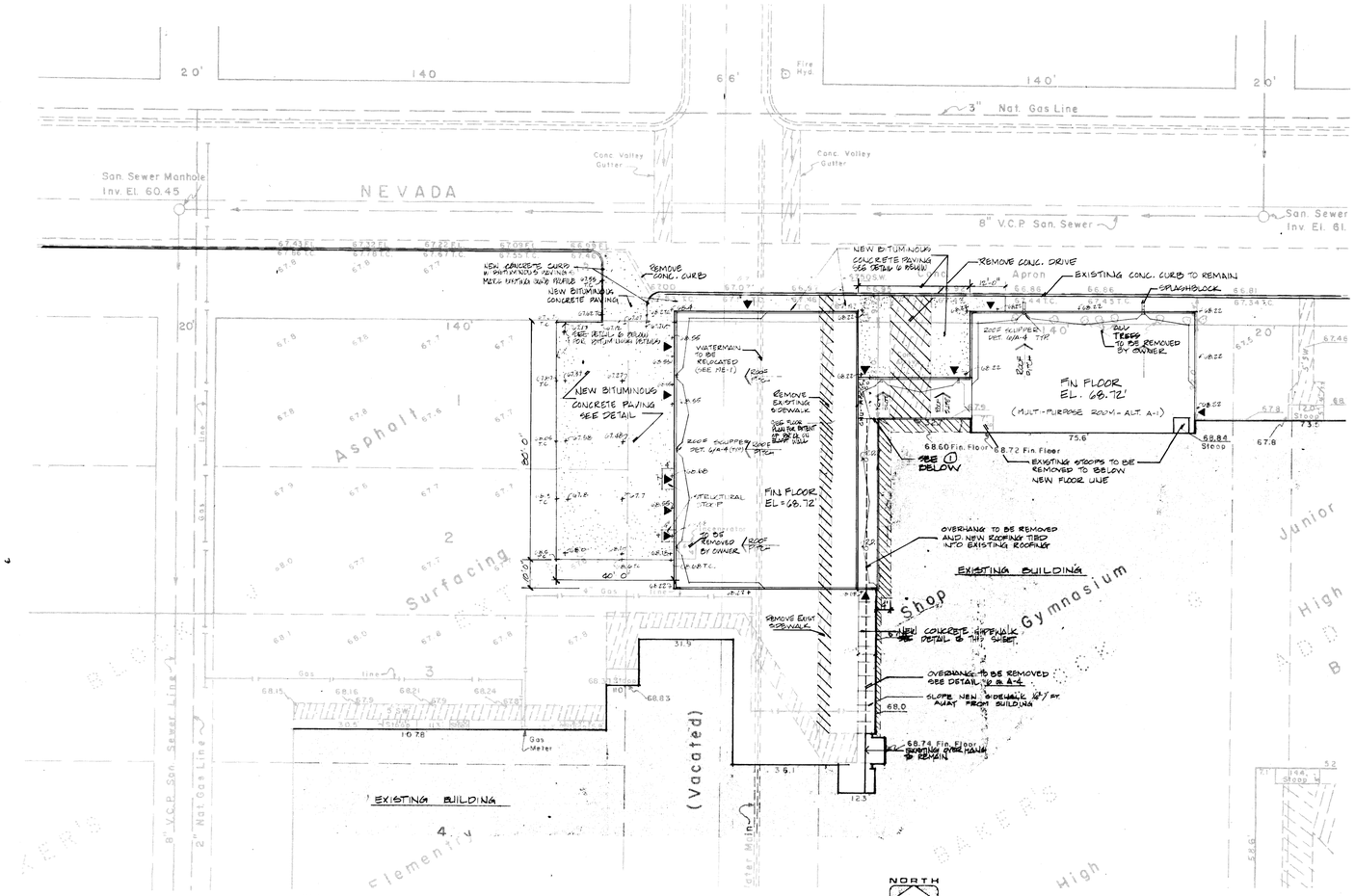
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-16-79

SURVEY

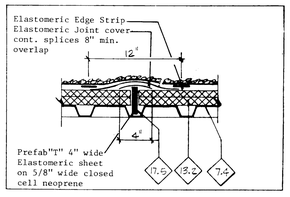
C-1

SHEET

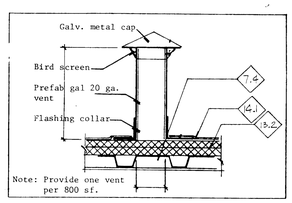


SITE PLAN & ROOF PLAN

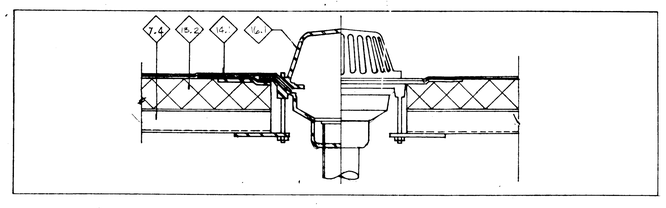
SCALE: 1" = 20'-0"



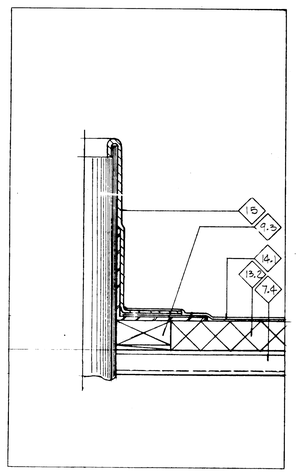
1 ROOF RELIEF JOINT
1½" = 1'-0"



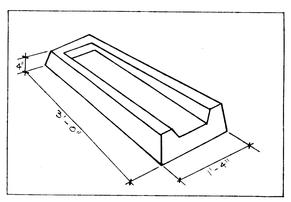
2 ROOF VENT
1½" = 1'-0"



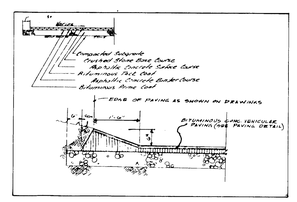
3 ROOF DRAIN DETAIL
3/4" = 1'-0"



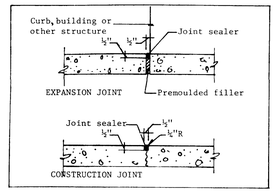
4 VENT PIPE THROUGH ROOFING
3/4" = 1'-0"



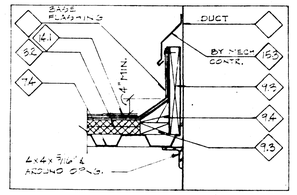
5 SPLASH BLOCK - TYP.
1/2" = 1'-0"



6 BITUMINOUS PAVING DETAILS
NO SCALE



7 CONCRETE SIDEWALK DETAILS
1" = 1'-0"



8 PREFAB. CURB FLASHING DETAIL
1½" = 1'-0"

GENERAL NOTES:

1. CONTRACTOR TO PREPARE EXISTING GRASS AREAS DISTURBED DURING CONSTRUCTION FOR SEEDING.
2. IF ANY DISCREPANCIES OCCUR, CONTACT ARCHITECTURAL FIELD REPRESENTATIVE IMMEDIATELY.
3. ALL NEW CONCRETE SIDEWALKS AND SLABS TO HAVE BROOM FINISH.
4. PROVIDE EXPANSION JOINTS WHERE NEW SIDEWALKS AND CURBS ABUT EXISTING CURBS, SIDEWALKS AND BUILDINGS AND WHERE SIDEWALKS ABUT THE NEW BUILDING.
5. PROVIDE EXPANSION JOINTS WHERE NEW PAVING ABUTS NEW BUILDING.
6. FOR NO. & LOCATION OF VENT PIPES, SKYLIGHTS & OTHER ROOF PENETRATIONS, SEE MECHANICAL PLANS.
7. CONTRACTOR SHALL PROVIDE CURBS FOR ALL VENT EQUIPMENT MOUNTED ON ROOF.

1. GRADE
   - 1.1 Finish Grade
   - 1.2 Sub-Grade
2. GRANULAR FILL
3. CONCRETE
   - 3.1 Slab on Grade
   - 3.2 Concrete Wall
   - 3.3 Concrete Footing
4. METAL FENCING
5. FACE BRICK
   - 5.1 Soldier Course
   - 5.2 Rowlock Course
6. CONCRETE BLOCK
   - 6.1 Bond Beam
   - 6.2 Solid CMU
7. METALS
   - 7.1 Structural Steel Beam
   - 7.2 Structural Steel Column
   - 7.3 Steel Bar Joist
   - 7.4 Metal Decking
   - 7.5 1½" Furring Channels @ 4'-0" c/c Suspended From Structure Above
   - 7.6 Metal Corner Bead
   - 7.7 Steel Truss
   - 7.8 Prefinished Insulated Metal Panel
   - 7.9 Miscellaneous Steel Angle
   - 7.10 Anchor Bolts
   - 7.11 Steel Plate
   - 7.12 Horizontal Wall Reinforcement @ 16" c/c vertically except as otherwise noted.
   - 7.13 6 x 6 10/10 W.W.F.
   - 7.14 Ceiling Suspension System
   - 7.15 3/4" Furring Channels
8. METAL STUDS
9. CARPENTRY
   - 9.1 Wood Studs
   - 9.2 Exterior Plywood Sheathing
   - 9.3 Wood Blocking
   - 9.4 Cant
   - 9.5 Wood Header
   - 9.6 Wood Sill Plate
   - 9.7 Chair Rail
10. MILLWORK
    - 10.1 Adjustable Shelf Hardware
11. CASEWORK
    - 11.1 Plastic Laminate
    - 11.2 Plastic Laminate Top and Backsplash
12. MOISTURE PROTECTION
    - 12.1 Damp Proofing
    - 12.2 Vapor Barrier
    - 12.3 Membrane Waterproofing
13. INSULATION
    - 13.1 Perimeter Insulation
    - 13.2 Rigid Insulation
    - 13.3 Batt Insulation
    - 13.4 Tapered Insulation
    - 13.5 Safing Insulation
14. ROOFING
    - 14.1 Built-Up Roof
    - 14.2 Metal Roofing
    - 14.3 Wood Shingles
    - 14.4 Asphalt Shingles
15. METAL FLASHING
    - 15.1 Thru-Wall Flashing w/Weep Holes
    - 15.2 Prefinished Cap Flashing
    - 15.3 Counter Flashing
16. ROOF ACCESSORIES
    - 16.1 Roof Drain
    - 16.2 Roof Relief Vent
    - 16.3 Roof Relief Joint
    - 16.4 Skylight
    - 16.5 Roof Expansion Joint
    - 16.6 Roof Hatch
17. JOINTS
    - 17.1 Caulk
    - 17.2 Sealant
    - 17.3 Felt Joint
    - 17.4 Expansion Joint
    - 17.5 Compressible Filler
    - 17.6 Control Joint
    - 17.7 Construction Joint
    - 17.8 Longitudinal Joint
    - 17.9 Shim Space
18. GLAZING
    - 18.1 Glass
    - 18.2 Insulated Glass
    - 18.3 Wire Glass
    - 18.4 Plate Glass
    - 18.5 Tempered Glass
    - 18.6 Tempered Insulated Glass
19. HOLLOW METAL FRAMES
    - 19.1 Fill Frame With Grout
    - 19.2 Applied Stop
    - 19.3 Anchor Jambs
20. ALUMINUM FRAMES
21. WOOD DOOR
22. ALUMINUM DOOR
23. HOLLOW METAL DOOR
24. ROLLING DOORS
    - 24.1 Overhead Door
    - 24.2 Rolling Shutter
    - 24 3 Rolling Grille
25. BUILDERS HARDWARE
    - 25.1 Aluminum Threshold (Grout Full)
26. FINISHES
    - 26.1 Cement Plaster
    - 26.2 Gypsum Board
    - 26.3 Gypsum Sheathing
    - 26.4 Wood Flooring
    - 26.5 Resilient Tile Flooring
    - 26.6 Resilient Sheet Flooring
    - 26.7 Synthetic Flooring
    - 26.8 Carpet
    - 26.9 Acoustical Tile Ceiling
    - 26.10 Vinyl Wall Covering
    - 26.11 Ceramic Tile
    - 26.12 Brick Pavers
    - 26.13 Vinyl Base
27. SUSPENDED FURRING CHANNEL SYSTEM (See Specs)
28. METAL TOILET PARTITIONS
29. METAL LOCKERS
30. OPERABLE WALLS
31. SPECIALTIES
32. GYMNASIUM EQUIPMENT
    - 32.1 Scoreboard
    - 32.2 Metal Backstop
    - 32.3 Glass Backstop
    - 32.4 Dividing Curtain

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK - KEARNEY - SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

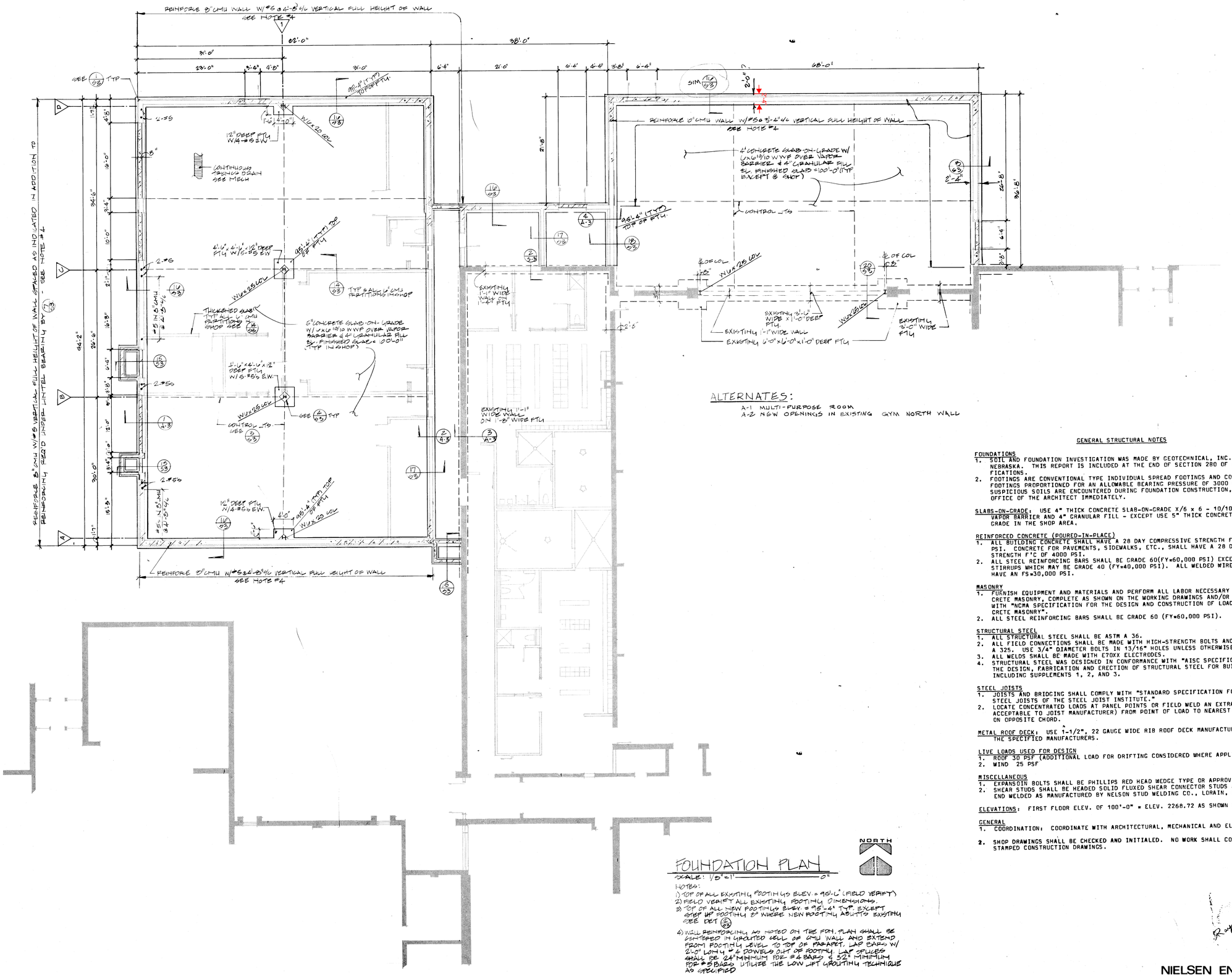
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-7-78
BY MCG
CHKD JRC

SITE PLAN
ROOF PLAN & DETAILS

C-2

SHEET



ALTERNATES:

A-1 MULTI-PURPOSE ROOM
A-2 NEW OPENINGS IN EXISTING GYM NORTH WALL

FOUNDATION PLAN

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

NOTES:
1) TOP OF ALL EXISTING FOOTINGS ELEV. = 98'-0" (FIELD VERIFY)
2) FIELD VERIFY ALL EXISTING FOOTING DIMENSIONS.
3) TOP OF ALL NEW FOOTINGS ELEV. = 98'-4" TYP. EXCEPT STEP UP FOOTING 8" WHERE NEW FOOTING ABUTS EXISTING SEE DET (2/S3)
4) WALL REINFORCING AS NOTED ON THE FDN. PLAN SHALL BE CONTINUED IN VAULTED WALL OF CMU WALL AND EXTEND FROM FOOTING LEVEL TO TOP OF PARAPET. LAP BARS W/ 2'-0" LONG #4 DOWELS OUT OF FOOTING. LAP SPLICES SHALL BE 24" MINIMUM FOR #4 BARS & 32" MINIMUM FOR #5 BARS. UTILIZE THE LOW LIFT GROUTING TECHNIQUE AS SPECIFIED

NORTH

GENERAL STRUCTURAL NOTES

FOUNDATIONS
1. SOIL AND FOUNDATION INVESTIGATION WAS MADE BY GEOTECHNICAL, INC. OF OMAHA, NEBRASKA. THIS REPORT IS INCLUDED AT THE END OF SECTION 280 OF THE SPECIFICATIONS.
2. FOOTINGS ARE CONVENTIONAL TYPE INDIVIDUAL SPREAD FOOTINGS AND CONTINUOUS WALL FOOTINGS PROPORTIONED FOR AN ALLOWABLE BEARING PRESSURE OF 3000 PSI. IF ANY SUSPICIOUS SOILS ARE ENCOUNTERED DURING FOUNDATION CONSTRUCTION, NOTIFY THE OFFICE OF THE ARCHITECT IMMEDIATELY.

SLABS-ON-GRADE: USE 4" THICK CONCRETE SLAB-ON-GRADE X/6 x 6 - 10/10 W.W.F. OVER VAPOR BARRIER AND 4" GRANULAR FILL - EXCEPT USE 5" THICK CONCRETE SLAB-ON-GRADE IN THE SHOP AREA.

REINFORCED CONCRETE (POURED-IN-PLACE)
1. ALL BUILDING CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH F'C OF 3000 PSI. CONCRETE FOR PAVEMENTS, SIDEWALKS, ETC., SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH F'C OF 4000 PSI.
2. ALL STEEL REINFORCING BARS SHALL BE GRADE 60(FY=60,000 PSI) EXCEPT TIE AND STIRRUPS WHICH MAY BE GRADE 40 (FY=40,000 PSI). ALL WELDED WIRE FABRIC SHALL HAVE AN FS=30,000 PSI.

MASONRY
1. FURNISH EQUIPMENT AND MATERIALS AND PERFORM ALL LABOR NECESSARY TO BUILD CONCRETE MASONRY, COMPLETE AS SHOWN ON THE WORKING DRAWINGS AND/OR IN ACCORDANCE WITH "NCMA SPECIFICATION FOR THE DESIGN AND CONSTRUCTION OF LOAD BEARING CONCRETE MASONRY".
2. ALL STEEL REINFORCING BARS SHALL BE GRADE 60 (FY=60,000 PSI).

STRUCTURAL STEEL
1. ALL STRUCTURAL STEEL SHALL BE ASTM A 36.
2. ALL FIELD CONNECTIONS SHALL BE MADE WITH HIGH-STRENGTH BOLTS AND NUTS ASTM A 325. USE 3/4" DIAMETER BOLTS IN 13/16" HOLES UNLESS OTHERWISE INDICATED.
3. ALL WELDS SHALL BE MADE WITH E70XX ELECTRODES.
4. STRUCTURAL STEEL WAS DESIGNED IN CONFORMANCE WITH "AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, 1969" INCLUDING SUPPLEMENTS 1, 2, AND 3.

STEEL JOISTS
1. JOISTS AND BRIDGING SHALL COMPLY WITH "STANDARD SPECIFICATION FOR OPEN WEB STEEL JOISTS OF THE STEEL JOIST INSTITUTE."
2. LOCATE CONCENTRATED LOADS AT PANEL POINTS OR FIELD WELD AN EXTRA MEMBER (AS ACCEPTABLE TO JOIST MANUFACTURER) FROM POINT OF LOAD TO NEAREST PANEL POINT ON OPPOSITE CHORD.

METAL ROOF DECK: USE 1-1/2", 22 GAUGE WIDE RIB ROOF DECK MANUFACTURED BY ONE OF THE SPECIFIED MANUFACTURERS.

LIVE LOADS USED FOR DESIGN
1. ROOF 30 PSF (ADDITIONAL LOAD FOR DRIFTING CONSIDERED WHERE APPLICABLE).
2. WIND 25 PSF

MISCELLANEOUS
1. EXPANSOIN BOLTS SHALL BE PHILLIPS RED HEAD WEDGE TYPE OR APPROVED EQUAL.
2. SHEAR STUDS SHALL BE HEADED SOLID FLUXED SHEAR CONNECTOR STUDS AUTOMATICALLY END WELDED AS MANUFACTURED BY NELSON STUD WELDING CO., LORAIN, OHIO.

ELEVATIONS: FIRST FLOOR ELEV. OF 100'-0" = ELEV. 2268.72 AS SHOWN ON THE SITE PLAN.

GENERAL
1. COORDINATION: COORDINATE WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS
2. SHOP DRAWINGS SHALL BE CHECKED AND INITIALED. NO WORK SHALL COMMENCE WITHOUT STAMPED CONSTRUCTION DRAWINGS.

NIELSEN ENGINEERING
STRUCTURAL DESIGN
9555 CORBY STREET OMAHA, NEBR. 68134
402-397-5971

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

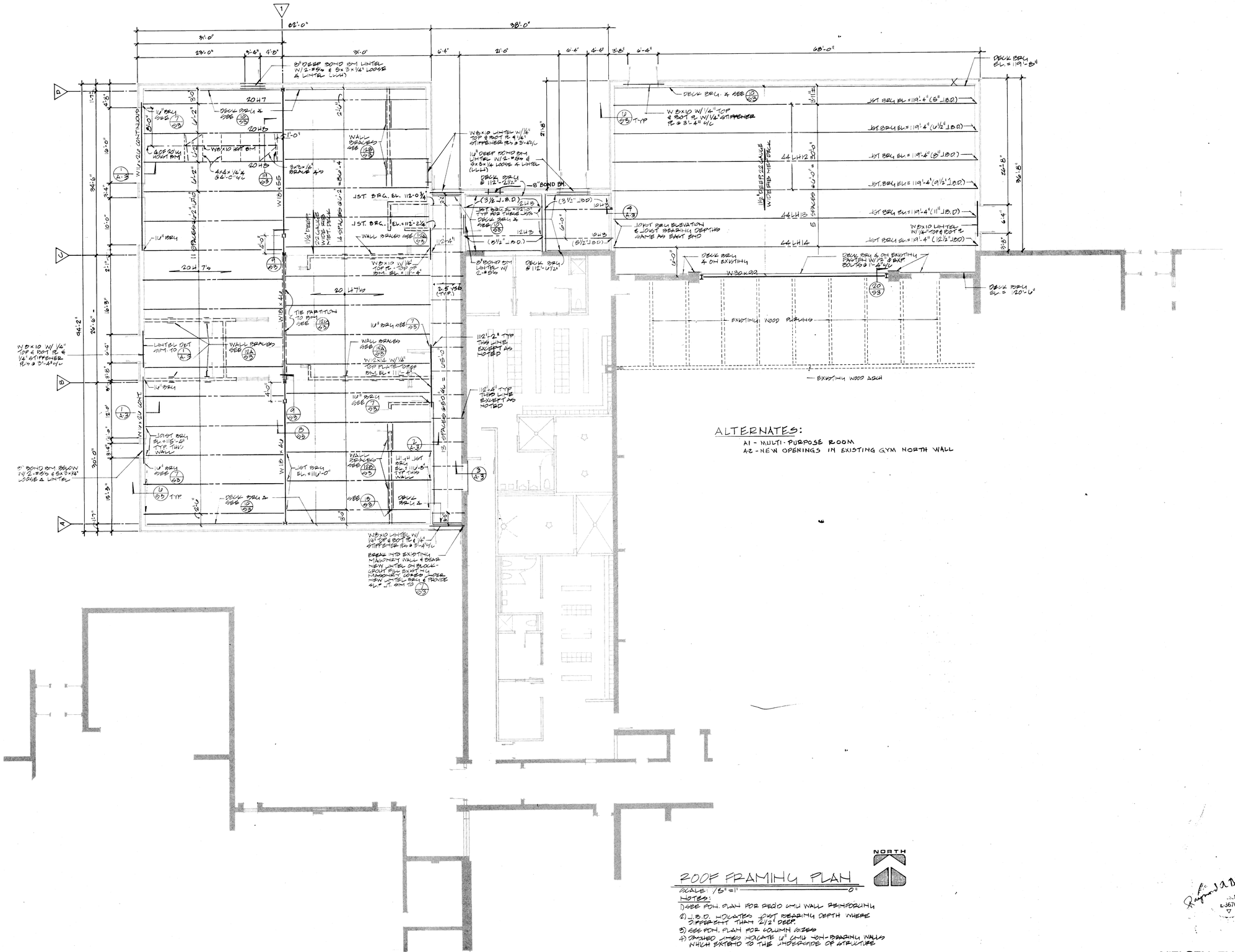
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-1-76
BY
JOB 7209 ONHO

FOUNDATION PLAN

S-1
SHEET

A & E TECHNICAL SUPPLY COMPANY, INC.



ROOF FRAMING PLAN

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

NOTES:
1) SEE FDN. PLAN FOR REQ'D CMU WALL REINFORCING
2) J.B.D. INDICATES JOIST BEARING DEPTH WHERE DIFFERENT THAN 2 1/2" DEEP.
3) SEE FDN. PLAN FOR COLUMN SIZES
4) DASHED LINES INDICATE 16" CMU NON-BEARING WALLS WHICH EXTEND TO THE UNDERSIDE OF STRUCTURE

Reginald A. Nielsen N-3676

NIELSEN ENGINEERING
STRUCTURAL DESIGN
9555 CORBY STREET OMAHA, NEBR. 68134
402-397-5971

ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

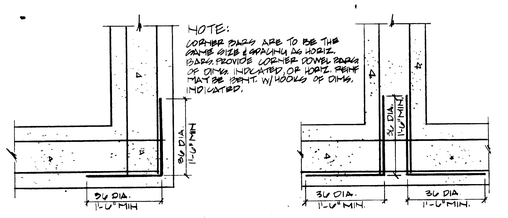
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-11-76
BY
JOB 7609
CHKD

ROOF FRAMING PLAN

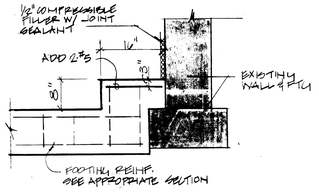
S-2
SHEET

A & B TECHNICAL SUPPLY COMPANY, INC.

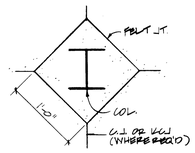


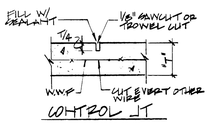
CORNER DETAIL (A)

"T" INTERSECTION DET (B)

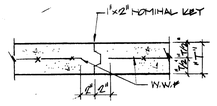


NEW FOOTING @ EXISTING (2/S-3)
NO SCALE

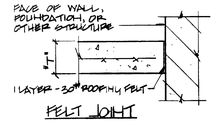




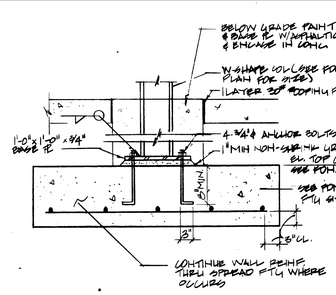
CONTROL JT



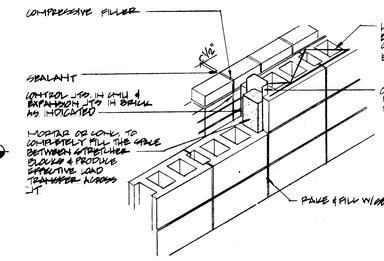
KEYED CONSTRUCTION (KCJ)



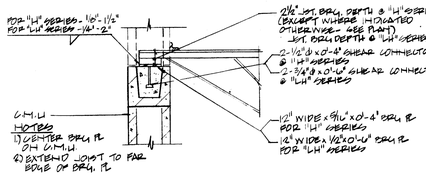
FELT JOINT



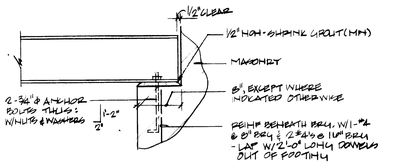
TYPICAL SPREAD FTG DETAIL (4/S-3)
NO SCALE



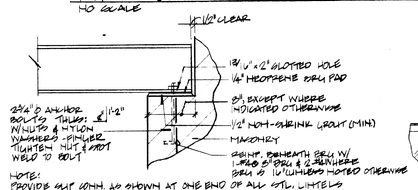
TYP. CONTROL JOINT/EXP. JOINT DET. (5/S-3)
NO SCALE



TYP. JOIST BRG ON C.M.U. (6/S-3)
NO SCALE

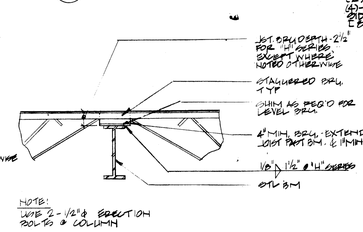


FIXED CONNECTION (A)

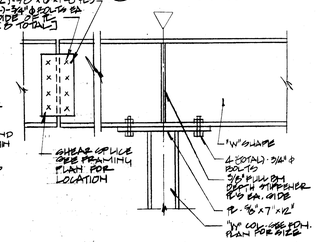


NOTE:
PROVIDE SLIP JOINT AS SHOWN AT ONE END OF ALL STL. LINTELS WHICH BEARS ON MASONRY - LOCATE SLIP JT TO OCCUR ON SAME SIDE OF OPENINGS AS MASONRY JTS.

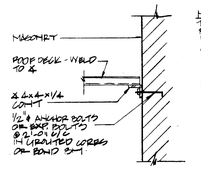
SLIP CONNECTION (B)



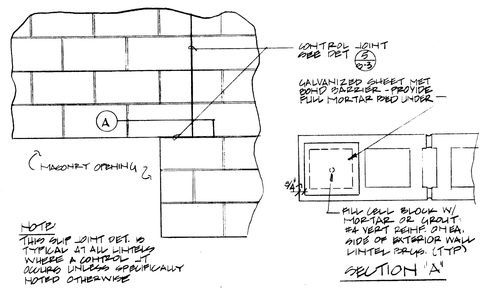
TYP. INT. JOIST BRG. ON STEEL (8/S-3)
NO SCALE



TYP. GIRDER TO COL. CONN. (9/S-3)
NO SCALE

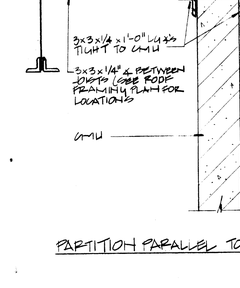


DECK BEARING ANGLES (10/S-3)

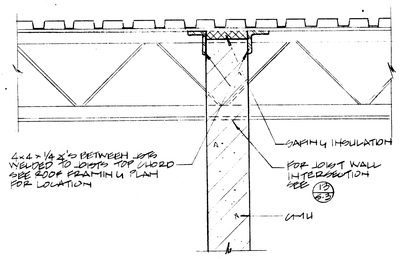


SECTION 'A'

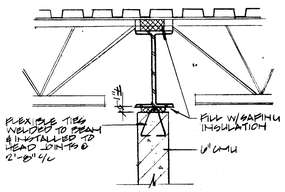
TYP. SLIP JOINT @ MASONRY LINTEL (11/S-3)
NO SCALE



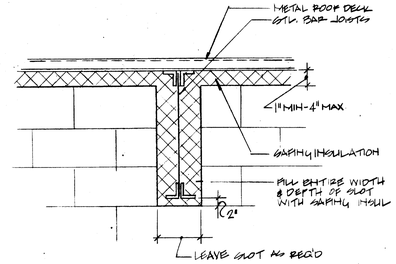
PARTITION PARALLEL TO STL. JOIST (A)



PARTITION PERPENDICULAR TO STL JST (B)

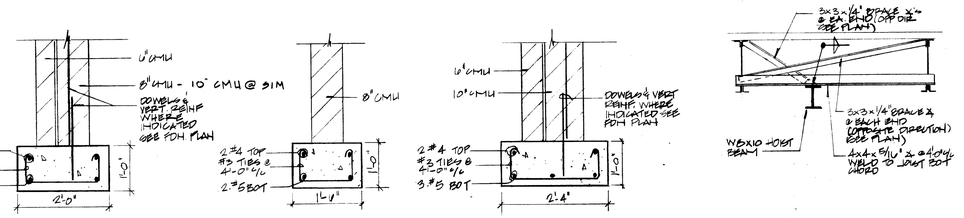


PARTITION PARALLEL TO STL. BM. (C)



NOTE: SEE INSULATION SPEC. FOR RIGID INSULATION

NON-BEARING WALL SUPPORT DETAILS (12/S-3)
NO SCALE



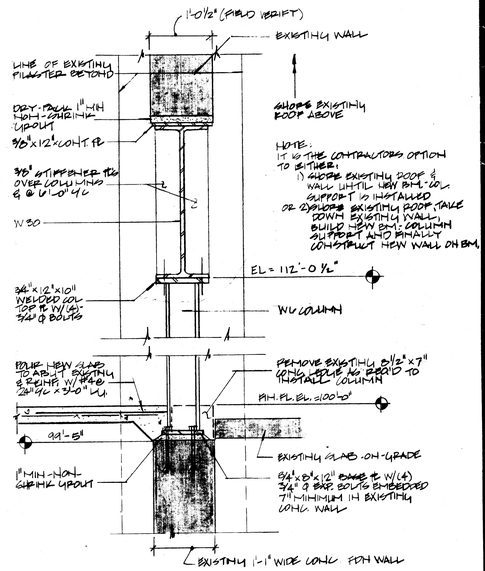
EXTERIOR WALL FOOTING (16/S-3)
SCALE: 3/4" = 1'-0"

INTERIOR WALL FTG. (17/S-3)
SCALE: 3/4" = 1'-0"

MULTI PURPOSE WALL FTG (18/S-3)
SCALE: 3/4" = 1'-0"

SECTION @ HOIST BM (19/S-3)
SCALE: 1/2" = 1'-0"

EST. INTERSECTION W/ NON-BRG CMU WALL (13/S-3)
NO SCALE



SECTION @ NEW GYMNASIUM OPENING (20/S-3)



NIELSEN ENGINEERING
STRUCTURAL DESIGN
9555 CORBY STREET OMAHA, NEBR. 68134
402-397-5971

ARCHITECTS PLUS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

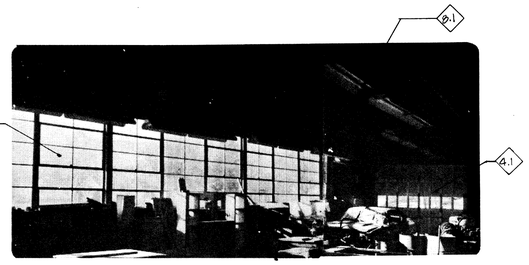
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4/17/71
BY
JOB 2823 CAMB

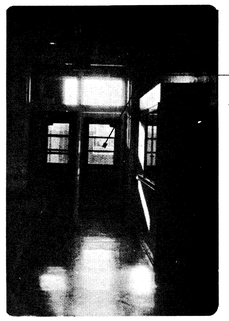
DETAILS

S-3
SHEET

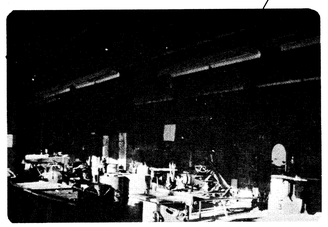
A & B TECHNICAL SUPPLY COMPANY, INC.



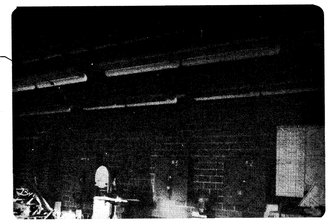
1 WEST & NORTH WALLS - E-101



4 VESTIBULE - E-111

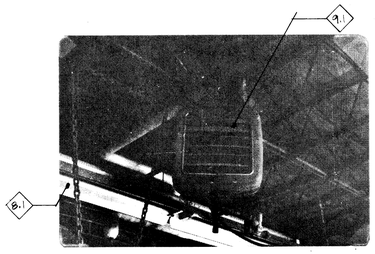


2 EAST WALL - E-101



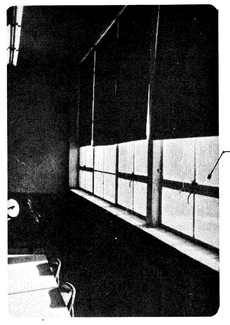
5 EAST WALL - E-101

NOT USED



3 EAST & SOUTH WALLS - E-101

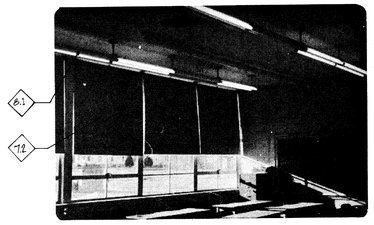
6 UNIT HEATER - E-101



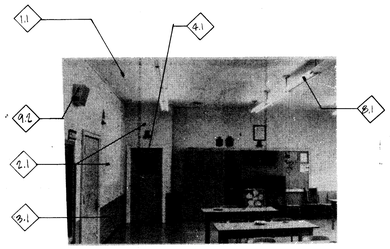
7 WEST WALL - E-107



8 NORTH & EAST WALLS - E-107



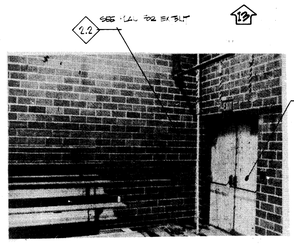
9 NORTH & WEST WALLS - E-107



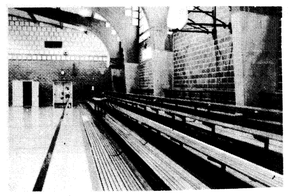
10 SOUTH WALL - E-107



11 NORTH WALL OF GYM - E-112



12 NORTHWEST CORNER OF GYM - E-112



13 NORTH & EAST WALLS OF GYM - E-112

DEMOLITION NOTES:

1. ALL EQUIPMENT, CHALKBOARDS, TACKBOARDS, FURNITURE, ETC. TO BE REMOVED BY OWNER PRIOR TO START OF CONSTRUCTION IN LOCKER ROOM AREA.
2. UNIT HEATERS AND LIGHT FIXTURES TO BE REMOVED BY CONTRACTOR AND TURNED OVER TO OWNER.
3. OVERHEAD DOOR TO BE TURNED OVER TO OWNER.
4. REMOVE ALL EXISTING PLUMBING FIXTURES AND CAP AT FLOOR. SEE SECTION 15F1 OF THE CONTRACT SPECIFICATIONS.
5. REMOVE ALL CABINET HEATERS IN ROOMS TO BE RENOVATED AND CAP AT EXISTING FLOOR.
6. SEE SECTIONS 1C0 AND 2A5 OF THE CONTRACT SPECIFICATIONS.

DEMOLITION NOTES

1.0 CEILING

- 1.1 EXISTING CEILING TO REMAIN.
- 1.2 REMOVE (NS) CEILING COMPLETE.
- 1.3 REMOVE (AN) CEILING FOR INSTALLATION OF ITEMS INDICATED.
- 1.4 REMOVE (NS) SKYLIGHT COMPLETE.
- 1.5 EXISTING SKYLIGHT TO REMAIN.
- 1.6 REMOVE (NS) SKYLIGHT COMPLETE.

2.0 WALLS

- 2.1 REMOVE (NS) WALL COMPLETE IN AREA DEFINED.
- 2.2 REMOVE (AN) WALL FOR INSTALLATION OF ITEMS INDICATED.
- 2.3 REMOVE (AN) WALL FINISH AND PREPARE SURFACE FOR NEW FINISH SCHEDULED.

3.0 FLOORS

- 3.1 REMOVE (NS) FLOOR FINISH AND PREPARE SURFACE FOR NEW FINISH SCHEDULED IN AREAS INDICATED. EXISTING FINISH IS V.A.T.
- 3.2 REMOVE (NS) FLOOR SLAB IN LOCATION INDICATED. (AS REQUIRED FOR INSTALLATION OF NEW SANITARY DRAIN LINE.

4.0 DOORS AND FRAMES

- 4.1 REMOVE (NS) DOOR AND FRAME COMPLETE.
- 4.2 REMOVE (S) DOOR AND FRAME COMPLETE. REINSTALL IN AREA INDICATED.

5.0 MILLWORK AND CASEWORK

- 5.1 REMOVE (NS) MILLWORK/CASEWORK COMPLETE.
- 5.2 REMOVE (S) MILLWORK/CASEWORK COMPLETE. STORE AS DIRECTED BY OWNER. REINSTALL IN ARE. INDICATED.

6.0 PLUMBING FIXTURES

- 6.1 REMOVE (NS) PLUMBING FIXTURE COMPLETE.
- 6.2 REMOVE (S) PLUMBING FIXTURE COMPLETE. STORE AS DIRECTED BY OWNER. REINSTALL IN LOCATION INDICATED.

7.0 WINDOWS

- 7.1 REMOVE (NS) WINDOW UNIT COMPLETE.
- 7.2 REMOVE (NS) WINDOW UNIT COMPLETE. CLOSE OPENING AS INDICATED ON DRAWINGS.
- 7.3 EXISTING WINDOW TO REMAIN. REMOVE & REPLACE AS RESULT

8.0 LIGHT FIXTURES

- 8.1 REMOVE (NS) LIGHT FIXTURE COMPLETE.
- 8.2 REMOVE (S) LIGHT FIXTURE COMPLETE. STORE AS DIRECTED BY OWNER. REINSTALL IN LOCATION INDICATED.

9.0 MISCELLANEOUS EQUIPMENT

- 9.1 REMOVE (NS) MISCELLANEOUS EQUIPMENT COMPLETE.
- 9.2 REMOVE (S) MISCELLANEOUS EQUIPMENT COMPLETE. STORE AS DIRECTED BY OWNER. REINSTALL IN LOCATION INDICATED.

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

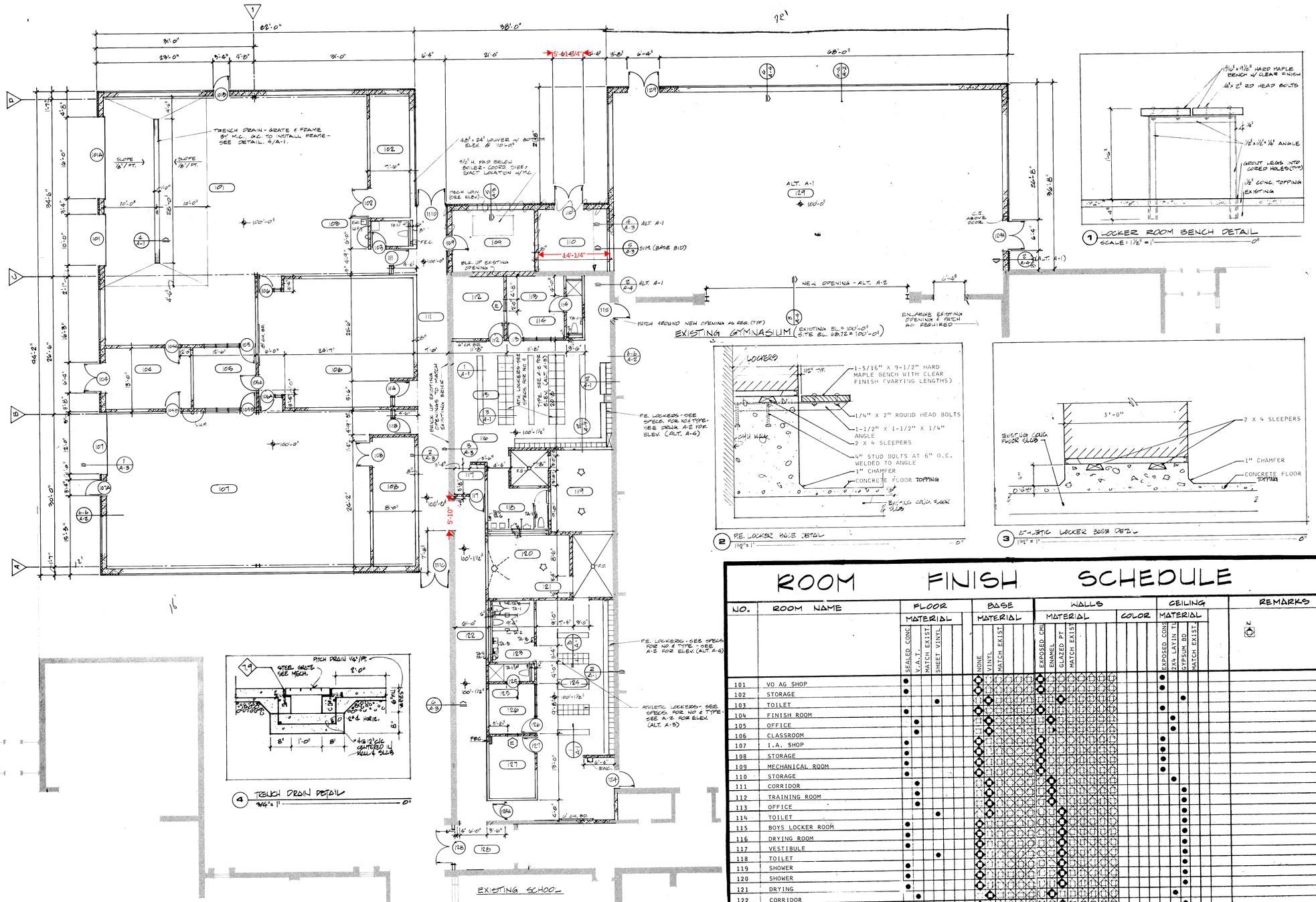
DATE 4-17-79
BY SS
JOB 2726
CHKD RS

DEMOLITION FLOOR PLAN & DEMOLITION PHOTOGRAPHS

D-1

SHEET

A B S TECHNICAL SUPPLY COMPANY, INC.



1 LOCKER ROOM BENCH DETAIL
SCALE: 1 1/2" = 1'

2 P.E. LOCKER BASE DETAIL
1 1/2" = 1'

3 ATHLETIC LOCKER BASE DETAIL
1 1/2" = 1'

4 TRENCH DRAIN DETAIL
3/4" = 1'

GENERAL NOTES:

1. ALL INTERIOR WALLS ARE 6" CMU UNLESS OTHERWISE INDICATED.
2. ALL INTERIOR WALLS IN RENOVATED AREA TO EXTEND 4" TO 6" ABOVE FINISHED CEILING.
3. ALL INTERIOR WALLS IN NEW ADDITION TO EXTEND TO UNDERSIDE OF DECK.
4. ALL DIMENSIONS ARE FROM FACE OF MASONRY UNLESS OTHERWISE INDICATED. COORDINATE DUCT OPENINGS THROUGH MASONRY WALLS WITH MECHANICAL CONTRACTOR. ALL DUCT OPENINGS THROUGH WALLS THAT ARE REQUIRED TO EXTEND TO DECK ABOVE SHALL HAVE BOND BEAMS WITH 2 - #5 REBARS (CONT.)
6. EXISTING CONCRETE FLOOR IN RENOVATED LOCKER ROOMS TO RECEIVE 1-1/2" CONCRETE TOPPING TO BE BONDED WITH WELD-CRETE BY LARSEN PRODUCTS CORPORATION, ROCKVILLE, MISSOURI. WHERE EL. 100'-1-1/2" ABUTS EL. 100'-0", SLOPE TOPPING TO MEET 100'-0" ELEVATION. IN SHOWER AND DRYING AREAS, SLOPE TOPPING TO NEW DRAINS.

ROOM FINISH SCHEDULE

NO.	ROOM NAME	FLOOR MATERIAL				BASE MATERIAL			WALLS MATERIAL			WALLS COLOR		CEILING MATERIAL			REMARKS
		SEALED CONC	V.A.T.	MATCH EXIST	SHEET VINYL	NONE	VINYL	MATCH EXIST	EXPOSED CMU	ENAMEL	GLAZED PT	MATCH EXIST		EXPOSED CONS	2X4 LAYIN TL	GYPSUM BD	MATCH EXIST	
101	VO AG SHOP	●						◇	◇					●				
102	STORAGE	●						◇	◇					●			◇	
103	TOILET				●			◇	◇								◇	
104	FINISH ROOM	●						◇	◇					●				
105	OFFICE		●					◇			◇				●			
106	CLASSROOM		●					◇			◇				●			
107	I.A. SHOP	●						◇	◇					●				
108	STORAGE	●						◇	◇					●				
109	MECHANICAL ROOM	●						◇	◇					●				
110	STORAGE	●						◇	◇					●				
111	CORRIDOR		●					◇			◇				●			
112	TRAINING ROOM		●					◇			◇					◇		
113	OFFICE		●					◇			◇					◇		
114	TOILET				●			◇			◇					◇		
115	BOYS LOCKER ROOM	●						◇			◇					◇		
116	DRYING ROOM	●						◇			◇					◇		
117	VESTIBULE	●						◇			◇					◇		
118	TOILET				●			◇			◇					◇		
119	SHOWER	●						◇			◇					◇		
120	SHOWER	●						◇			◇					◇		
121	DRYING	●						◇			◇					◇		
122	CORRIDOR		●					◇	◇						●			
123	TOILET				●			◇	◇							◇		
124	GIRLS LOCKER ROOM	●						◇	◇					●				
125	TOILET				●			◇	◇							◇		
126	OFFICE		●					◇			◇					◇		
127	TRAINING ROOM		●					◇			◇					◇		
128	ENTRANCE VESTIBULE			●				◇			◇					◇		
129	MULTI-PURPOSE ROOM (ALT. A-1)	●						◇	◇					●				

NOTE: ALL NEW CIELINGS TO BE AT EL. 109'-0"

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 1/15/93 BY JOB 9325 CHKD

FLOOR PLAN
FINISH SCHEDULE & DETAILS

A-1
SHEET

A & B TECHNICAL SUPPLY COMPANY, INC.

1. GRADE
   1.1 Finish Grade
   1.2 Sub-Grade

2. GRANULAR FILL

3. CONCRETE
   3.1 Slab on Grade
   3.2 Concrete Wall
   3.3 Concrete Footing

4. METAL FENCING

5. FACE BRICK
   5.1 Soldier Course
   5.2 Rowlock Course

6. CONCRETE BLOCK
   6.1 Bond Beam
   6.2 Solid CMU

7. METALS
   7.1 Structural Steel Beam
   7.2 Structural Steel Column
   7.3 Steel Bar Joist
   7.4 Metal Decking
   7.5 1½" Furring Channels @ 4'-0" c/c Suspended From Structure Above
   7.6 Metal Corner Bead
   7.7 Steel Truss
   7.8 Prefinished Insulated Metal Panel
   7.9 Miscellaneous Steel Angle
   7.10 Anchor Bolts
   7.11 Steel Plate
   7.12 Horizontal Wall Reinforcement @ 16" c/c vertically except as otherwise noted.
   7.13 6 x 6 10/10 W.W.F.
   7.14 Ceiling Suspension System
   7.15 3/4" Furring Channels

8. METAL STUDS

9. CARPENTRY
   9.1 Wood Studs
   9.2 Exterior Plywood Sheathing
   9.3 Wood Blocking
   9.4 Cant
   9.5 Wood Header
   9.6 Wood Sill Plate
   9.7 Chair Rail

10. MILLWORK
    10.1 Adjustable Shelf Hardware

11. CASEWORK
    11.1 Plastic Laminate
    11.2 Plastic Laminate Top and Backsplash

12. MOISTURE PROTECTION
    12.1 Damp Proofing
    12.2 Vapor Barrier
    12.3 Membrane Waterproofing

13. INSULATION
    13.1 Perimeter Insulation
    13.2 Rigid Insulation
    13.3 Batt Insulation
    13.4 Tapered Insulation
    13.5 Safing Insulation

14. ROOFING
    14.1 Built-Up Roof
    14.2 Metal Roofing
    14.3 Wood Shingles
    14.4 Asphalt Shingles

15. METAL FLASHING
    15.1 Thru-Wall Flashing w/Weep Holes
    15.2 Prefinished Cap Flashing
    15.3 Counter Flashing

16. ROOF ACCESSORIES
    16.1 Roof Drain
    16.2 Roof Relief Vent
    16.3 Roof Relief Joint
    16.4 Skylight
    16.5 Roof Expansion Joint
    16.6 Roof Hatch

17. JOINTS
    17.1 Caulk
    17.2 Sealant
    17.3 Felt Joint
    17.4 Expansion Joint
    17.5 Compressible Filler
    17.6 Control Joint
    17.7 Construction Joint
    17.8 Longitudinal Joint
    17.9 Shim Space

18. GLAZING
    18.1 Glass
    18.2 Insulated Glass
    18.3 Wire Glass
    18.4 Plate Glass
    18.5 Tempered Glass
    18.6 Tempered Insulated Glass

19. HOLLOW METAL FRAMES
    19.1 Fill Frame With Grout
    19.2 Applied Stop
    19.3 Anchor Jambs

20. ALUMINUM FRAMES

21. WOOD DOOR

22. ALUMINUM DOOR

23. HOLLOW METAL DOOR

24. ROLLING DOORS
    24.1 Overhead Door
    24.2 Rolling Shutter
    24.3 Rolling Grille

25. BUILDERS HARDWARE
    25.1 Aluminum Threshold (Grout Full)

26. FINISHES
    26.1 Cement Plaster
    26.2 Gypsum Board
    26.3 Gypsum Sheathing
    26.4 Wood Flooring
    26.5 Resilient Tile Flooring
    26.6 Resilient Sheet Flooring
    26.7 Synthetic Flooring
    26.8 Carpet
    26.9 Acoustical Tile Ceiling
    26.10 Vinyl Wall Covering
    26.11 Ceramic Tile
    26.12 Brick Pavers
    26.13 Vinyl Base

27. SUSPENDED FURRING CHANNEL SYSTEM (See Specs)

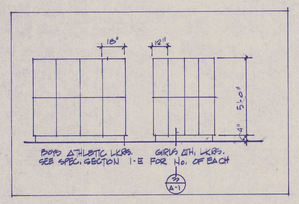
28. METAL TOILET PARTITIONS

29. METAL LOCKERS

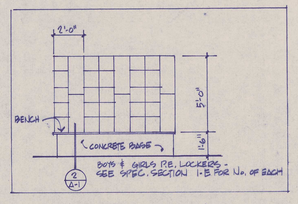
30. OPERABLE WALLS

31. SPECIALTIES

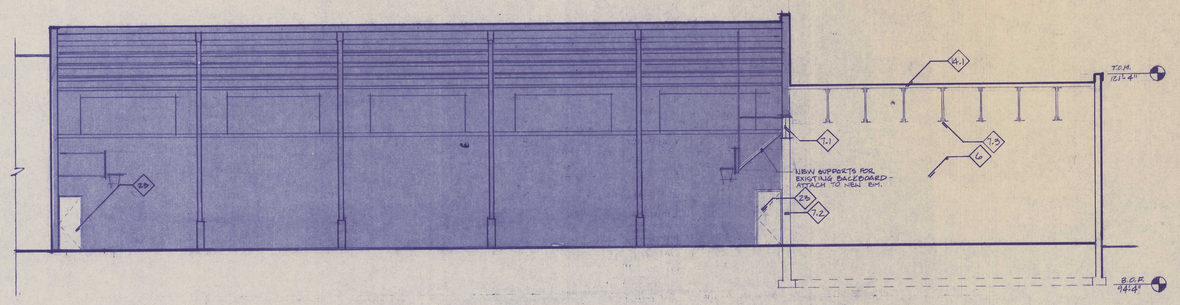
32. GYMNASIUM EQUIPMENT
    32.1 Scoreboard
    32.2 Metal Backstop
    32.3 Glass Backstop
    32.4 Dividing Curtain



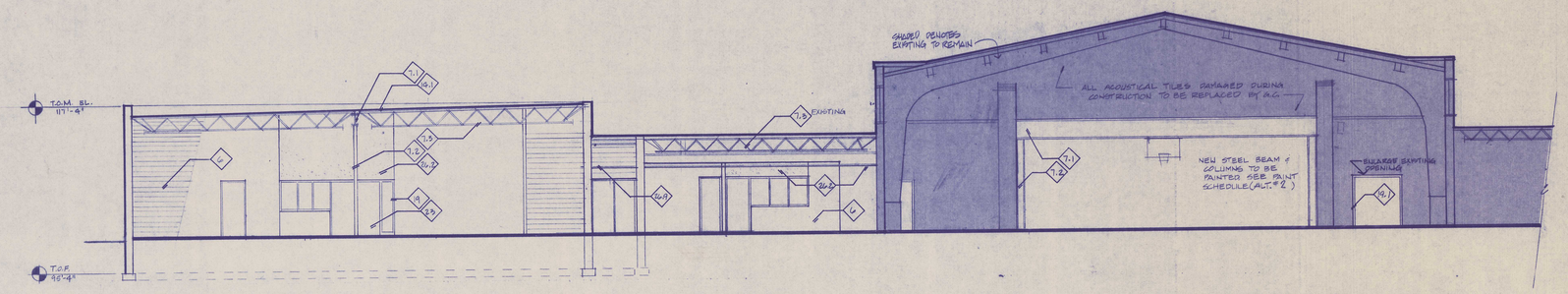
1 ATHLETIC LOCKERS - TYP. ELEV.
1/4" = 1'-0"



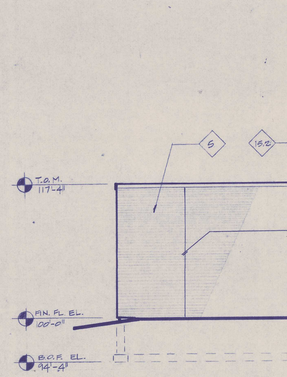
2 P.E. LOCKERS - TYP. ELEVATION
1/4" = 1'-0"



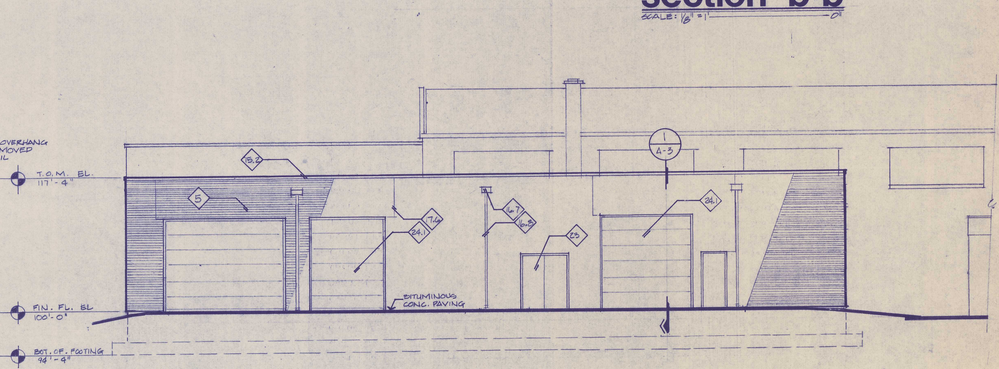
section a-a
SCALE: 1/8" = 1'-0"



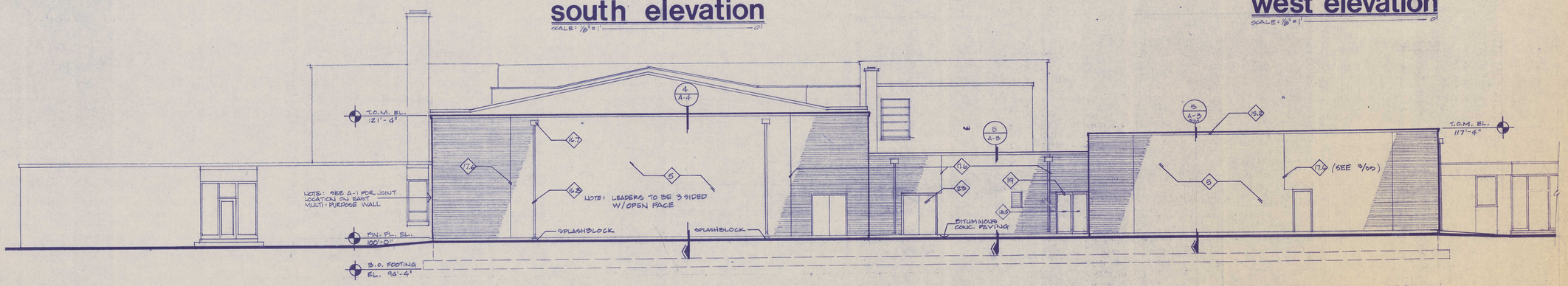
section b-b
SCALE: 1/8" = 1'-0"



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



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



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

ARCHITECTS ENGINEERS PLANNERS CONSULTANTS
a+ ARCHITECTS PLUS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

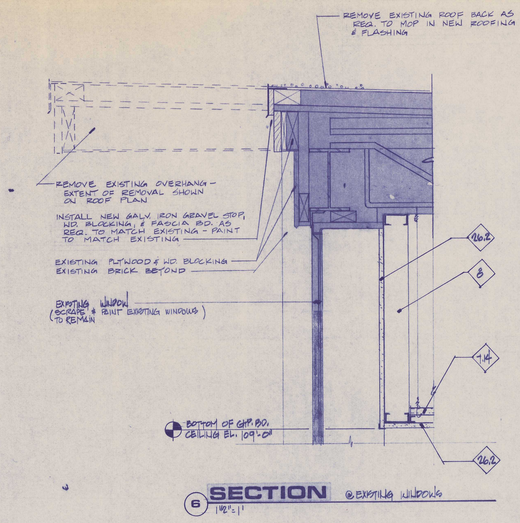
DATE 1-23-84
BY
JOB # 8404
2783
DRWN BY
CHKD BY

ELEVATIONS & BUILDING SECTIONS

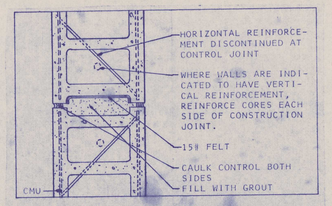
A-2
SHEET

LYNN DONLEE A-972

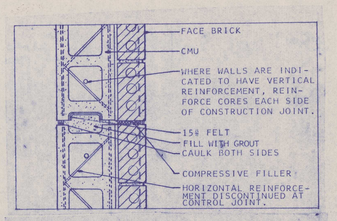
A & B TECHNICAL SUPPLY COMPANY, INC.



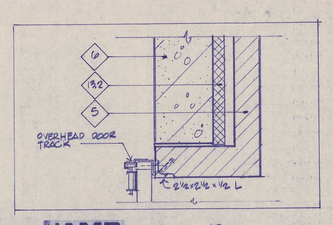
6 **SECTION** @ EXISTING WINDOWS
1½" = 1'



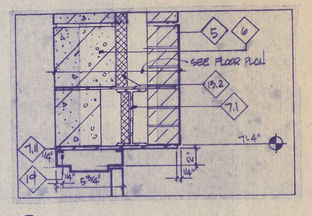
7 **CONTROL JOINT**



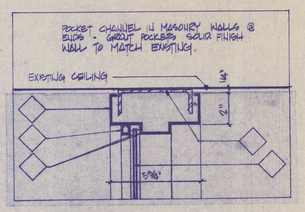
8 **CONTROL JOINT**



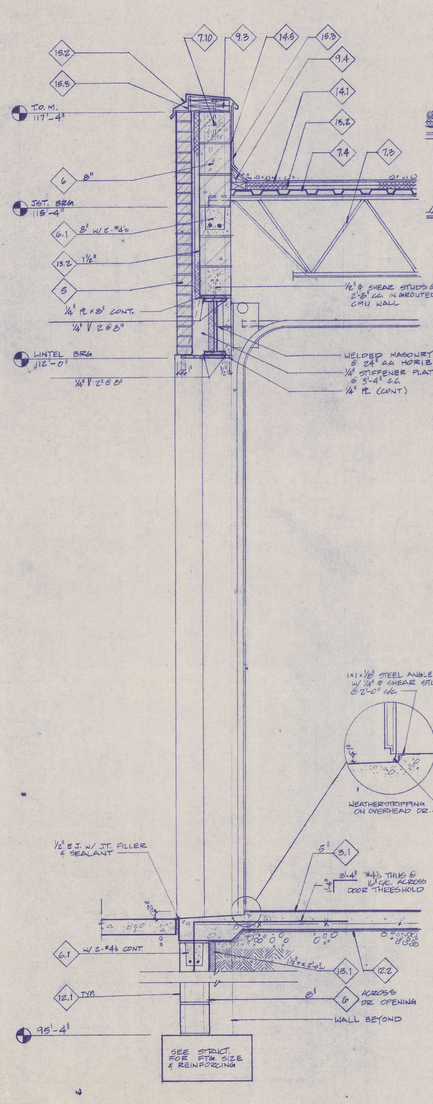
9 **JAMB** -O.H. DOOR - TYP.
1½" = 1'



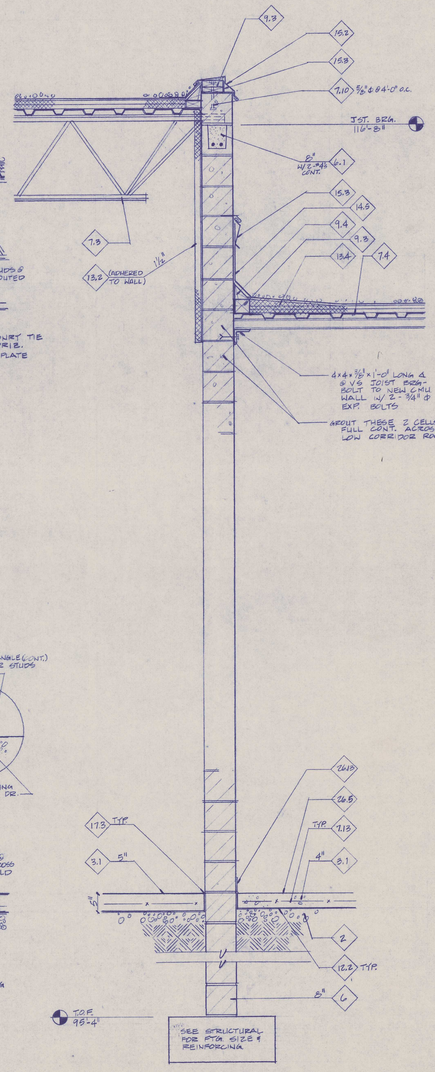
10 NO SCALE



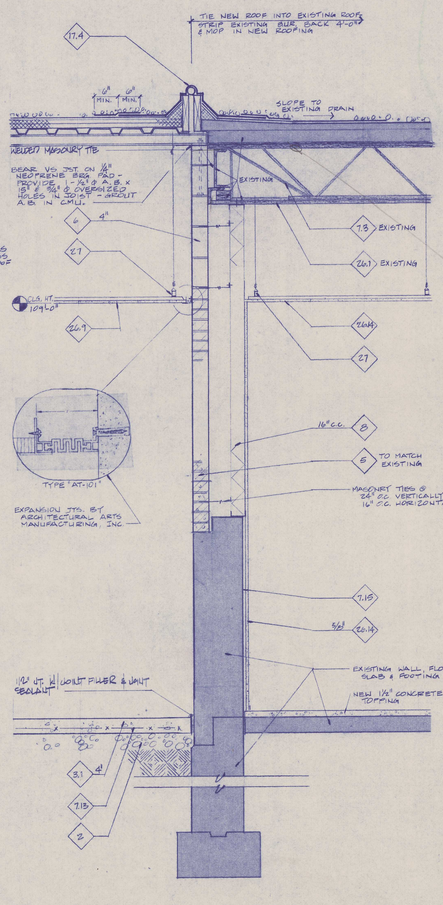
11 **HEAD** @ DOOR #126 (TRANSOM)
3½" = 1'



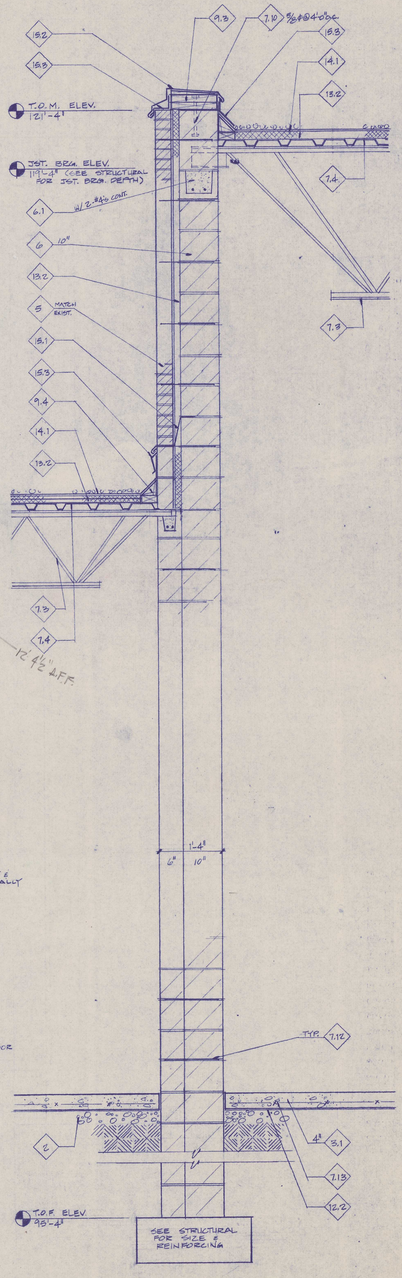
1 **WALL SECTION**
SCALE: 3/4" = 1'-0"



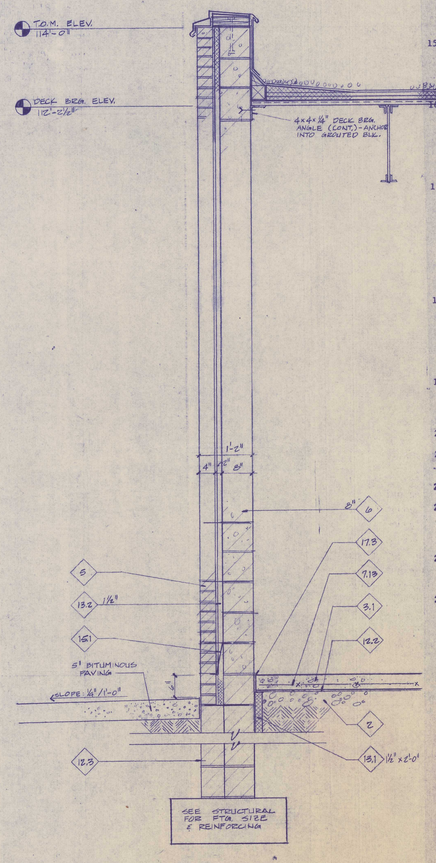
2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



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



4 **WALL SECTION** (ALT. #A-1)
SCALE: 3/4" = 1'-0"



5 **WALL SECTION**
SCALE: 3/4" = 1'-0"

1. GRADE
   - 1.1 Finish Grade
   - 1.2 Sub-Grade
2. GRANULAR FILL
3. CONCRETE
   - 3.1 Slab on Grade
   - 3.2 Concrete Wall
   - 3.3 Concrete Footing
4. METAL FENCING
5. FACE BRICK
   - 5.1 Soldier Course
   - 5.2 Rowlock Course
6. CONCRETE BLOCK
   - 6.1 Bond Beam
   - 6.2 Solid CMU
7. METALS
   - 7.1 Structural Steel Beam
   - 7.2 Structural Steel Column
   - 7.3 Steel Bar Joist
   - 7.4 Metal Decking
   - 7.5 1½" Furring Channels @ 4'-0" c/c Suspended From Structure Above
   - 7.6 Metal Corner Bead
   - 7.7 Steel Truss
   - 7.8 Prefinished Insulated Metal Panel
   - 7.9 Miscellaneous Steel Angle
   - 7.10 Anchor Bolts
   - 7.11 Steel Plate
   - 7.12 Horizontal Wall Reinforcement @ 16" c/c vertically except as otherwise noted.
   - 7.13 6 x 6 10/10 W.W.F.
   - 7.14 Ceiling Suspension System
   - 7.15 3/4" Furring Channels
8. METAL STUDS
9. CARPENTRY
   - 9.1 Wood Studs
   - 9.2 Exterior Plywood Sheathing
   - 9.3 Wood Blocking
   - 9.4 Cant
   - 9.5 Wood Header
   - 9.6 Wood Sill Plate
   - 9.7 Chair Rail
   - 9.8 WOOD TRIM
10. MILLWORK
    - 10.1 Adjustable Shelf Hardware
11. CASEWORK
    - 11.1 Plastic Laminate
    - 11.2 Plastic Laminate Top and Backsplash
12. MOISTURE PROTECTION
    - 12.1 Damp Proofing
    - 12.2 Vapor Barrier
    - 12.3 Membrane Waterproofing
    - 12.4 EXPANSION FLASHING
13. INSULATION
    - 13.1 Perimeter Insulation
    - 13.2 Rigid Insulation
    - 13.3 Batt Insulation
    - 13.4 Tapered Insulation
    - 13.5 Safing Insulation
14. ROOFING
    - 14.1 Built-Up Roof
    - 14.2 Metal Roofing
    - 14.3 Wood Shingles
    - 14.4 Asphalt Shingles
    - 14.5 EAVE FLASHING
15. METAL FLASHING
    - 15.1 Thru-Wall Flashing w/Weep Holes
    - 15.2 Prefinished Cap Flashing
    - 15.3 Counter Flashing
    - 15.4 REGLET
16. ROOF ACCESSORIES
    - 16.1 Roof Drain
    - 16.2 Roof Relief Vent
    - 16.3 Roof Relief Joint
    - 16.4 Skylight
    - 16.5 Roof Expansion Joint
    - 16.6 Roof Hatch
    - 16.7 THRU WALL SCUPPER
    - 16.8 ROOF LADDER
17. JOINTS
    - 17.1 Caulk
    - 17.2 Sealant
    - 17.3 Felt Joint
    - 17.4 Expansion Joint
    - 17.5 Compressible Filler
    - 17.6 Control Joint
    - 17.7 Construction Joint
    - 17.8 Longitudinal Joint
    - 17.9 Shim Space
18. GLAZING
    - 18.1 Glass
    - 18.2 Insulated Glass
    - 18.3 Wire Glass
    - 18.4 Plate Glass
    - 18.5 Tempered Glass
    - 18.6 Tempered Insulated Glass
19. HOLLOW METAL FRAMES
    - 19.1 Fill Frame With Grout
    - 19.2 Applied Stop
    - 19.3 Anchor Jambs
20. ALUMINUM FRAMES
21. WOOD DOOR
... ALUMINUM DOOR
23. HOLLOW METAL DOOR
24. ROLLING DOORS
    - 24.1 Overhead Door
    - 24.2 Rolling Shutter
    - 24.3 Rolling Grille
25. BUILDERS HARDWARE
    - 25.1 Aluminum Threshold (Grout Full)
26. FINISHES
    - 26.1 Cement Plaster
    - 26.2 Gypsum Board
    - 26.3 Gypsum Sheathing
    - 26.4 Wood Flooring
    - 26.5 Resilient Tile Flooring
    - 26.6 Resilient Sheet Flooring
    - 26.7 Synthetic Flooring
    - 26.8 Carpet
    - 26.9 Acoustical Tile Ceiling
    - 26.10 Vinyl Wall Covering
    - 26.11 Ceramic Tile
    - 26.12 Brick Pavers
    - 26.13 Vinyl Base
    - 26.14 WATERPROOF GYPSUM BD.
27. SUSPENDED FURRING CHANNEL SYSTEM (See Specs)
28. METAL TOILET PARTITIONS
29. METAL LOCKERS
30. OPERABLE WALLS
31. SPECIALTIES
32. GYMNASIUM EQUIPMENT
    - 32.1 Scoreboard
    - 32.2 Metal Backstop
    - 32.3 Glass Backstop
    - 32.4 Dividing Curtain

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK · KEARNEY · SCOTTSBLUFF, NE. · SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

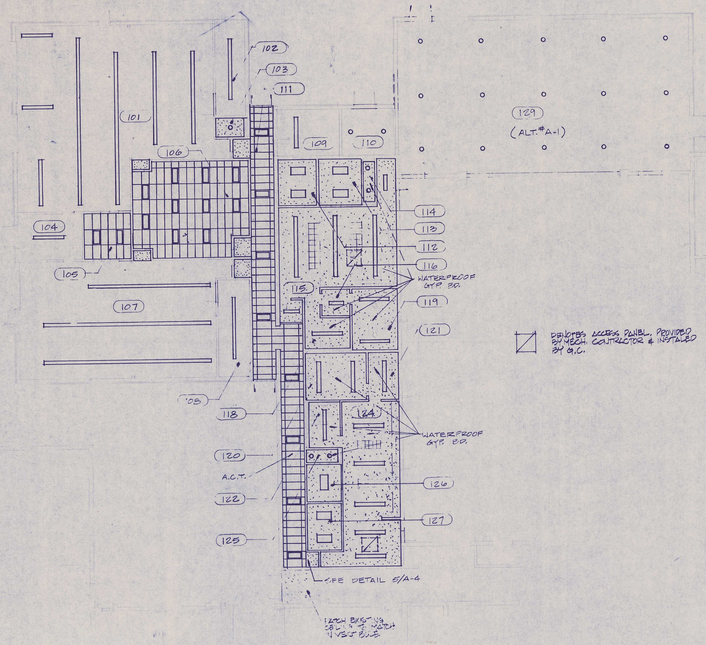
DATE 4-4-79
BY KJ
JOB 7803
CHKD

WALL SECTIONS & DETAILS

A-3
SHEET

LYNN BONGE A-872 REGISTERED PROFESSIONAL ARCHITECT STATE OF NEBRASKA

K & E TECHNICAL SUPPLY COMPANY, INC.

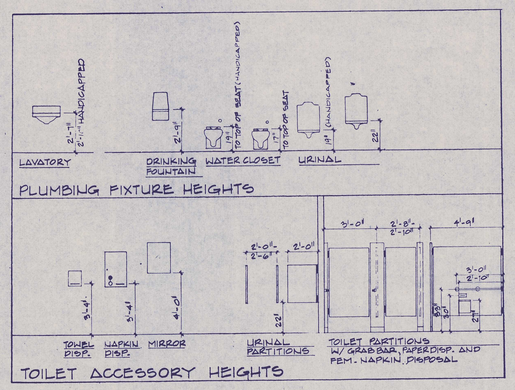


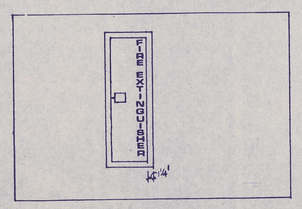
DENOTES ACCESS PANEL, PROVIDED BY MECH. CONTRACTOR & INSTALLED BY G.C.

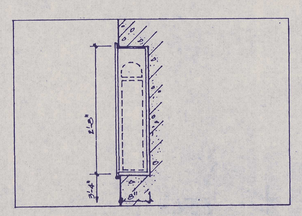
REFLECTED CEILING PLAN

SCALE: 1/16" = 1'-0"

NORTH

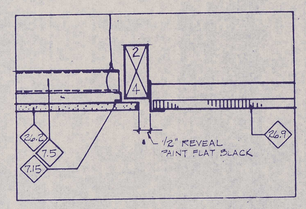






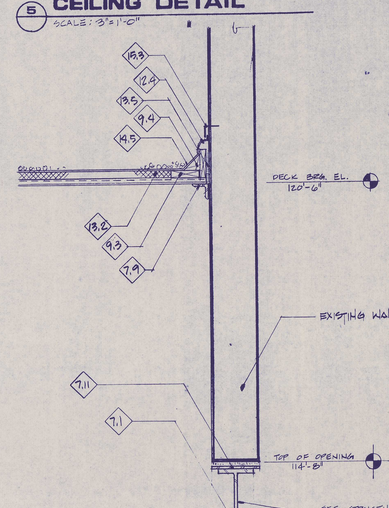
1 DETAIL @ FIRE EXTINGUISHER CABINETS

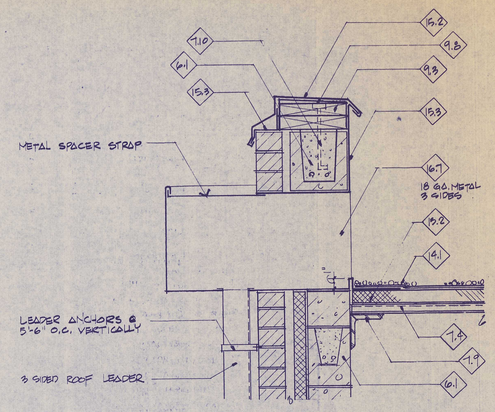
SCALE: 3/4" = 1'-0"



5 CEILING DETAIL

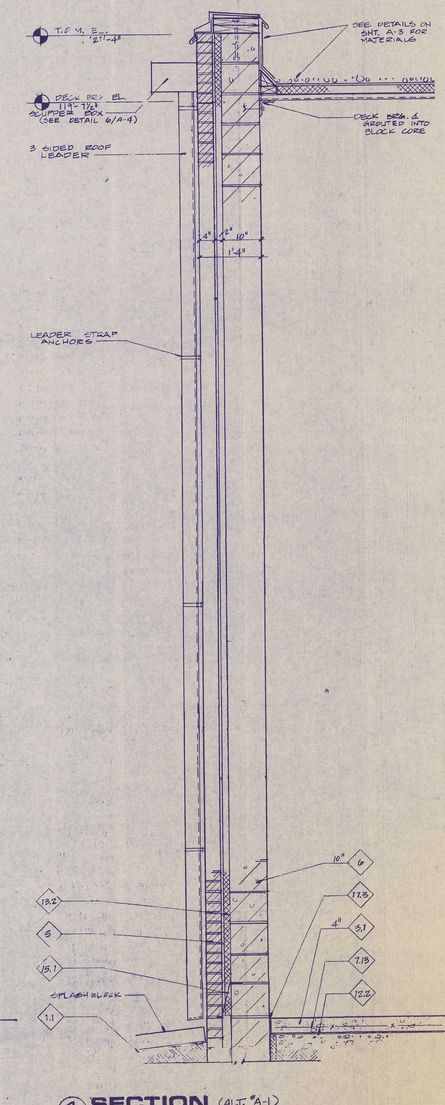
SCALE: 3"=1'-0"

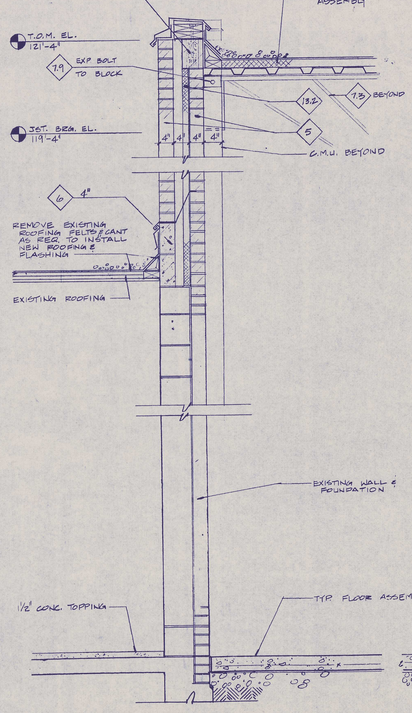




6 ROOF SCUPPER DETAIL

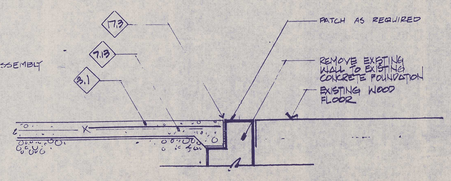
1 1/2" = 1'-0"





2 SECTION (ALT. #A-1)

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



3 SECTION (OPENING - ALT. #A-2 MULTI-PURPOSE RM. - ALT. #A-1)

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

4 SECTION (ALT. #A-1)

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

1. GRADE
   - 1.1 Finish Grade
   - 1.2 Sub-Grade
2. GRANULAR FILL
3. CONCRETE
   - 3.1 Slab on Grade
   - 3.2 Concrete Wall
   - 3.3 Concrete Footing
4. METAL FENCING
5. FACE BRICK
   - 5.1 Soldier Course
   - 5.2 Rowlock Course
6. CONCRETE BLOCK
   - 6.1 Bond Beam
   - 6.2 Solid CMU
7. METALS
   - 7.1 Structural Steel Beam
   - 7.2 Structural Steel Column
   - 7.3 Steel Bar Joist
   - 7.4 Metal Decking
   - 7.5 1½" Furring Channels @ 4'-0" c/c Suspended From Structure Above
   - 7.6 Metal Corner Bead
   - 7.7 Steel Truss
   - 7.8 Prefinished Insulated Metal Panel
   - 7.9 Miscellaneous Steel Angle
   - 7.10 Anchor Bolts
   - 7.11 Steel Plate
   - 7.12 Horizontal Wall Reinforcement @ 16" c/c vertically except as otherwise noted.
   - 7.13 6 x 6 10/10 W.W.F.
   - 7.14 Ceiling Suspension System
   - 7.15 3/4" Furring Channels
8. METAL STUDS
9. CARPENTRY
   - 9.1 Wood Studs
   - 9.2 Exterior Plywood Sheathing
   - 9.3 Wood Blocking
   - 9.4 Cant
   - 9.5 Wood Header
   - 9.6 Wood Sill Plate
   - 9.7 Chair Rail
   - 9.8 WOOD SHIM
10. MILLWORK
    - 10.1 Adjustable Shelf Hardware
11. CASEWORK
    - 11.1 Plastic Laminate
    - 11.2 Plastic Laminate Top and Backsplash
12. MOISTURE PROTECTION
    - 12.1 Damp Proofing
    - 12.2 Vapor Barrier
    - 12.3 Membrane Waterproofing
    - 12.4 EXPANSION JOINT FLASHING
13. INSULATION
    - 13.1 Perimeter Insulation
    - 13.2 Rigid Insulation
    - 13.3 Batt Insulation
    - 13.4 Tapered Insulation
    - 13.5 Safing Insulation
14. ROOFING
    - 14.1 Built-Up Roof
    - 14.2 Metal Roofing
    - 14.3 Wood Shingles
    - 14.4 Asphalt Shingles
    - 14.5 BASE FLASHING
15. METAL FLASHING
    - 15.1 Thru-Wall Flashing w/Weep Holes
    - 15.2 Prefinished Cap Flashing
    - 15.3 Counter Flashing
16. ROOF ACCESSORIES
    - 16.1 Roof Drain
    - 16.2 Roof Relief Vent
    - 16.3 Roof Relief Joint
    - 16.4 Skylight
    - 16.5 Roof Expansion Joint
    - 16.6 Roof Hatch
    - 16.7 THRU WALL SCUPPER
    - 16.8 ROOF LEADER
17. JOINTS
    - 17.1 Caulk
    - 17.2 Sealant
    - 17.3 Felt Joint
    - 17.4 Expansion Joint
    - 17.5 Compressible Filler
    - 17.6 Control Joint
    - 17.7 Construction Joint
    - 17.8 Longitudinal Joint
    - 17.9 Shim Space
18. GLAZING
    - 18.1 Glass
    - 18.2 Insulated Glass
    - 18.3 Wire Glass
    - 18.4 Plate Glass
    - 18.5 Tempered Glass
    - 18.6 Tempered Insulated Glass
19. HOLLOW METAL FRAMES
    - 19.1 Fill Frame With Grout
    - 19.2 Applied Stop
    - 19.3 Anchor Jambs
20. ALUMINUM FRAMES
21. WOOD DOOR
22. ALUMINUM DOOR
23. HOLLOW METAL DOOR
24. ROLLING DOORS
    - 24.1 Overhead Door
    - 24.2 Rolling Shutter
    - 24.3 Rolling Grille
25. BUILDERS HARDWARE
    - 25.1 Aluminum Threshold (Grout Full)
26. FINISHES
    - 26.1 Cement Plaster
    - 26.2 Gypsum Board
    - 26.3 Gypsum Sheathing
    - 26.4 Wood Flooring
    - 26.5 Resilient Tile Flooring
    - 26.6 Resilient Sheet Flooring
    - 26.7 Synthetic Flooring
    - 26.8 Carpet
    - 26.9 Acoustical Tile Ceiling
    - 26.10 Vinyl Wall Covering
    - 26.11 Ceramic Tile
    - 26.12 Brick Pavers
    - 26.13 Vinyl Base
    - 26.14 GYPSUM BD. - WATERPROOF
27. SUSPENDED FURRING CHANNEL SYSTEM (See Specs)
28. METAL TOILET PARTITIONS
29. METAL LOCKERS
30. OPERABLE WALLS
31. SPECIALTIES
32. GYMNASIUM EQUIPMENT
    - 32.1 Scoreboard
    - 32.2 Metal Backstop
    - 32.3 Glass Backstop
    - 32.4 Dividing Curtain

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK - KEARNEY - SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

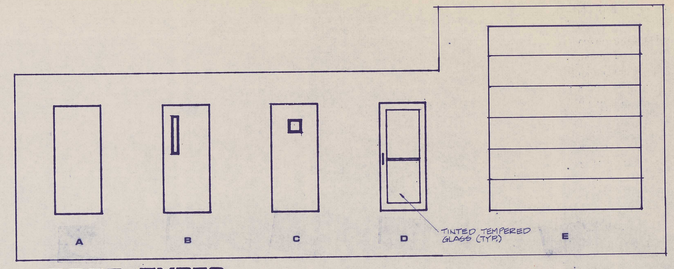
DATE 4-10-91
K.J.K. & S.B.
JOB 2140
CHKD 98

REFLECTED CEILING PLAN
WALL SECTIONS & DETAILS

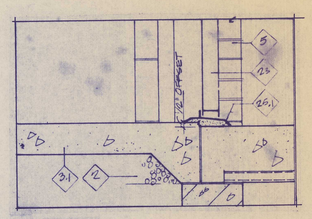
A-4
SHEET

A & D TECHNICAL SUPPLY COMPANY, INC.

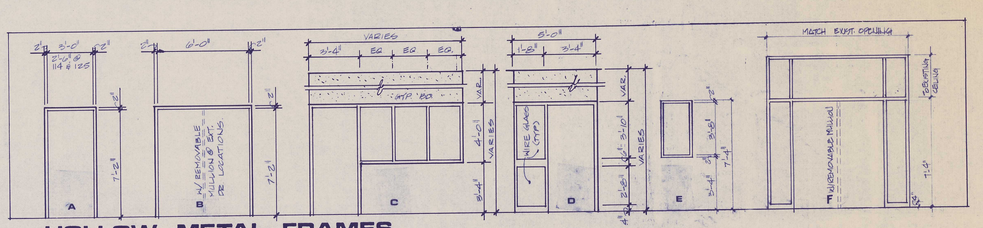
DOOR NO.	HWDE SET NO.	DOOR SIZE	DOOR TYPE	DOOR MATL	FRAME TYPE	FRAME MATL	HEAD	JAMB	JAMB	SILL	LABEL	LOUVER	REMARKS
101	1	10'-0"X12'-0"X1-3/4"	E	STEEL	-		1/A-3	9/A-3	9/A-3	1/A-3			
101A	1	16'-0"X12'-0"X1-3/4"	E	STEEL	-		1/A-3	9/A-3	9/A-3	1/A-3			
101B	2	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	5	4	4	17			
102	3	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	6	7	12		1 HR		
103	4	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	6	8	7				
104	5	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	10/A-3	4	4	17			
104A	6	3'-0"X 7'-2"X1-3/4"	C	H.M.	A	H.M.	6	7	7		1 HR		
104B	6	3'-0"X 7'-2"X1-3/4"	C	H.M.	A	H.M.	6	7	7		1 HR		
105	7	3'-0"X 7'-2"X1-3/4"	A	H.M.	C	H.M.	9	8SIM	19				
105A	7	3'-0"X 7'-2"X1-3/4"	B	H.M.	A	H.M.	6	7	7				
105B	7	3'-0"X 7'-2"X1-3/4"	A	H.M.	C	H.M.	9	10	8SIM				
106	6	3'-0"X 7'-2"X1-3/4"	A	H.M.	D	H.M.	11	10SIM	8SIM				
106A	6	3'-0"X 7'-2"X1-3/4"	A	H.M.	D	H.M.	11	8SIM	20				
107	1	12'-0"X12'-0"X1-3/4"	E	STEEL	-		1/A-3	9/A-3	9/A-3	1/A-3			
107A	2	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	5	4	4	18			
108	5	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	6	7	7		1 HR		
109	8	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	5	4	4		1 HR		
110	5	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	10/A-3	4SIM	4SIM	17			
111	6	3'-0"X 7'-2"X1-3/4"	A	H.M.	D	H.M.	13	10SIM	8SIM		20MIN		
111A	6	3'-0"X 7'-2"X1-3/4"	A	H.M.	D	H.M.	13	10SIM	8		20MIN		
111B	6	3'-0"X 7'-2"X1-3/4"	A	H.M.	D	H.M.	13	8SIM	20		20MIN		
111C	9	PR-3'-0"X7'-2"X1-3/4"	D	H.M.	B	H.M.	10/A-3	14	15	23			
111D	9	PR-3'-0"X7'-2"X1-3/4"	D	H.M.	B	H.M.	10/A-3	14	16	17			
112	10	3'-0"X 7'-2"X1-3/4"	B	H.M.	A	H.M.	6	7	18				
113	7	3'-0"X 7'-2"X1-3/4"	A	H.M.	C-2	H.M.	9	8	19				
114	4	2'-6"X 7'-2"X1-3/4"	A*	H.M.	A*	H.M.	6	5	5				
115	11	3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	21	22	22		20MIN		
117	11	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	6	8SIM	5		20MIN		
124	11	3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	21	22	22		20MIN		
124A	11	3'-0"X 7'-2"X1-3/4"	A	H.M.	A	H.M.	6	8SIM	8SIM		20MIN		
125	4	2'-6"X 7'-2"X1-3/4"	A*	H.M.	A*	H.M.	6	5	5				
126	7	3'-0"X 7'-2"X1-3/4"	A	H.M.	C	H.M.	9	8	19				
127	10	3'-0"X 7'-2"X1-3/4"	B	H.M.	A	H.M.	6	7	18				
128	9	PR-3'-0"X7'-2"X1-3/4"	D	H.M.	B	H.M.	* 11/A-3	14	16	23			* TELEVISION HEAD DETAIL ALT. A-1
129	9	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	10/A-3	4	4	17			ALT A-1
129A	9	PR-3'-0"X7'-2"X1-3/4"	A	H.M.	B	H.M.	10/A-3	4	4	17			



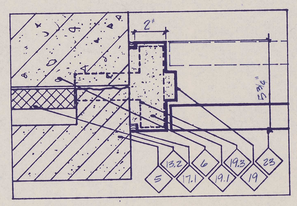
DOOR TYPES



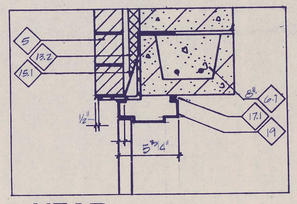
23 SILL



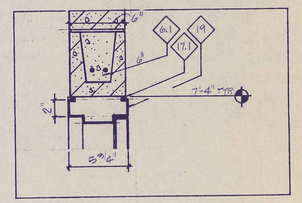
HOLLOW METAL FRAMES



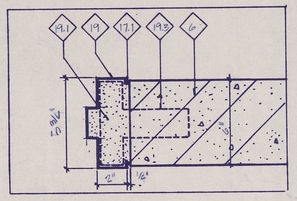
4 JAMB



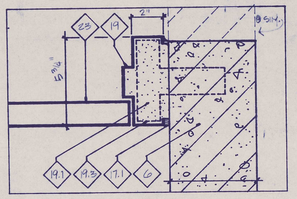
5 HEAD



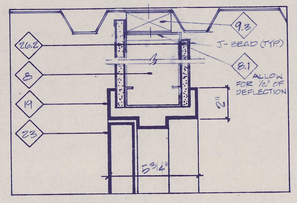
6 HEAD



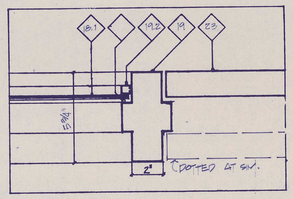
7 JAMB



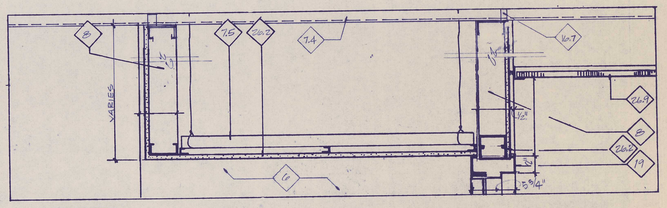
8 JAMB



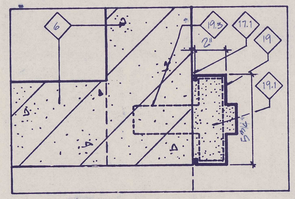
9 HEAD



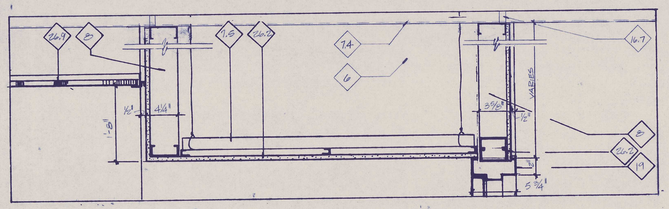
10 JAMB



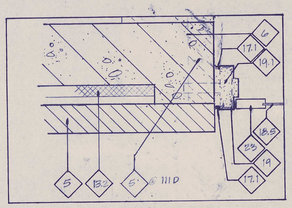
11 HEAD



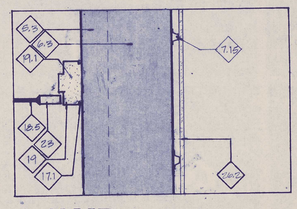
12 JAMB



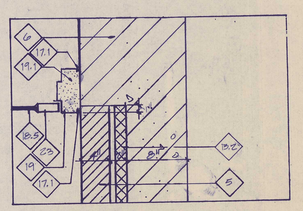
13 HEAD



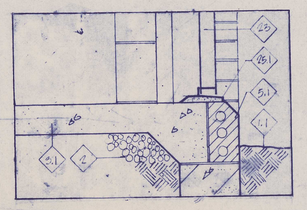
14 JAMB



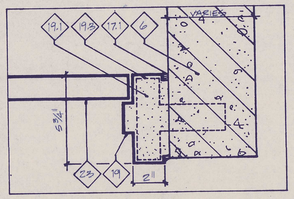
15 JAMB



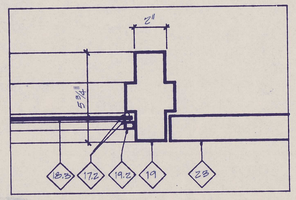
16 JAMB



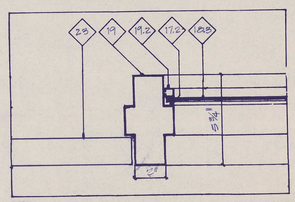
17 SILL



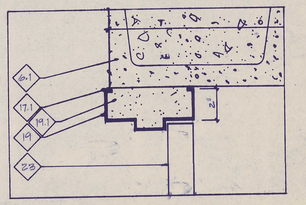
18 JAMB



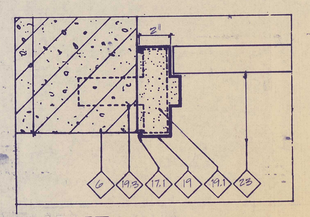
19 JAMB



20 JAMB



21 HEAD



22 JAMB

1. GRADE
   - 1.1 Finish Grade
   - 1.2 Sub-Grade
2. GRANULAR FILL
3. CONCRETE
   - 3.1 Slab on Grade
   - 3.2 Concrete Wall
   - 3.3 Concrete Footing
   - 3.4 RETAINING WALL
4. METAL FENCING
5. FACE BRICK
   - 5.1 Soldier Course
   - 5.2 RowLock Course
   - 5.3 EXISTING FACE BRICK
6. CONCRETE BLOCK
   - 6.1 Bond Beam
   - 6.2 Solid CMU
   - 6.3 EXISTING C.M.U.
7. METALS
   - 7.1 Structural Steel Beam
   - 7.2 Structural Steel Column
   - 7.3 Steel Bar Joist
   - 7.4 Metal Decking
   - 7.5 1½" Furring Channels @ 4'-0" c/c Suspended From Structure Above
   - 7.6 Metal Corner Bead
   - 7.7 Steel Truss
   - 7.8 Prefinished Insulated Metal Panel
   - 7.9 Miscellaneous Steel Angle
   - 7.10 Anchor Bolts
   - 7.11 Steel Plate
   - 7.12 Horizontal Wall Reinforcement @ 16" c/c vertically except as otherwise noted.
   - 7.13 6 x 6 10/10 W.W.F.
   - 7.14 Ceiling Suspension System
   - 7.15 3/4" Furring Channels
8. METAL STUDS
   - 8.1 RECEIVER CHANNEL
9. CARPENTRY
   - 9.1 Wood Studs
   - 9.2 Exterior Plywood Sheathing
   - 9.3 Wood Blocking
   - 9.4 Cant
   - 9.5 Wood Header
   - 9.6 Wood Sill Plate
   - 9.7 Chair Rail
10. MILLWORK
    - 10.1 Adjustable Shelf Hardware
11. CASEWORK
    - 11.1 Plastic Laminate
    - 11.2 Plastic Laminate Top and Backsplash
12. MOISTURE PROTECTION
    - 12.1 Damp Proofing
    - 12.2 Vapor Barrier
    - 12.3 Membrane Waterproofing
13. INSULATION
    - 13.1 Perimeter Insulation
    - 13.2 Rigid Insulation — 1½"
    - 13.3 Batt Insulation
    - 13.4 Tapered Insulation
    - 13.5 Safing Insulation
14. ROOFING
    - 14.1 Built-Up Roof
    - 14.2 Metal Roofing
    - 14.3 Wood Shingles
    - 14.4 Asphalt Shingles
15. METAL FLASHING
    - 15.1 Thru-Wall Flashing w/Weep Holes
    - 15.2 Prefinished Cap Flashing
    - 15.3 Counter Flashing
16. ROOF ACCESSORIES
    - 16.1 Roof Drain
    - 16.2 Roof Relief Vent
    - 16.3 Roof Relief Joint
    - 16.4 Skylight
    - 16.5 Roof Expansion Joint
    - 16.6 Roof Hatch
    - 16.7 DECK CLOSURE
17. JOINTS
    - 17.1 Caulk
    - 17.2 Sealant
    - 17.3 Felt Joint
    - 17.4 Expansion Joint
    - 17.5 Compressible Filler
    - 17.6 Control Joint
    - 17.7 Construction Joint
    - 17.8 Longitudinal Joint
    - 17.9 Shim Space
18. GLAZING
    - 18.1 Glass
    - 18.2 Insulated Glass
    - 18.3 Wire Glass
    - 18.4 Plate Glass
    - 18.5 Tempered Glass
    - 18.6 Tempered Insulated Glass
19. HOLLOW METAL FRAMES
    - 19.1 Fill Frame With Grout
    - 19.2 Applied Stop
    - 19.3 Anchor Jambs
20. ALUMINUM FRAMES
21. WOOD DOOR
22. ALUMINUM DOOR
23. HOLLOW METAL DOOR
24. ROLLING DOORS
    - 24.1 Overhead Door
    - 24.2 Rolling Shutter
    - 24.3 Rolling Grille
25. BUILDERS HARDWARE
    - 25.1 Aluminum Threshold (Grout Full)
26. FINISHES
    - 26.1 Cement Plaster
    - 26.2 Gypsum Board
    - 26.3 Gypsum Sheathing
    - 26.4 Wood Flooring
    - 26.5 Resilient Tile Flooring
    - 26.6 Resilient Sheet Flooring
    - 26.7 Synthetic Flooring
    - 26.8 Carpet
    - 26.9 Acoustical Tile Ceiling
    - 26.10 Vinyl Wall Covering
    - 26.11 Ceramic Tile
    - 26.12 Brick Pavers
    - 26.13 Vinyl Base
27. SUSPENDED FURRING CHANNEL SYSTEM (See Specs)
28. METAL TOILET PARTITIONS
29. METAL LOCKERS
30. OPERABLE WALLS
31. SPECIALTIES
32. GYMNASIUM EQUIPMENT
    - 32.1 Scoreboard
    - 32.2 Metal Backstop
    - 32.3 Glass Backstop
    - 32.4 Dividing Curtain

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

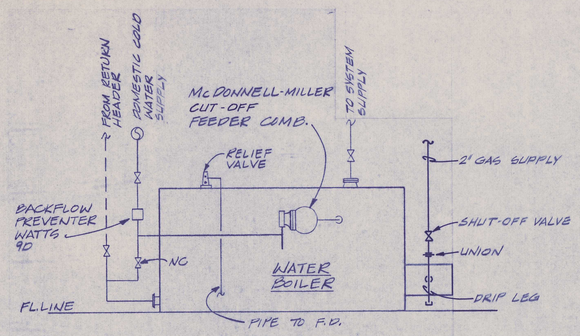
DATE
JOB NO. 1029
BY DHKD

DOOR SCHEDULE
ELEVATIONS & DETAILS

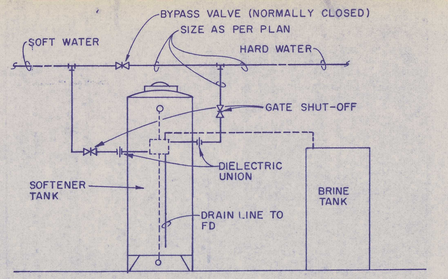
A-5
SHEET

LYNN EDGE A-012 PROFESSIONAL ARCHITECT STATE OF NEBRASKA

A & B TECHNICAL SUPPLY COMPANY, INC.

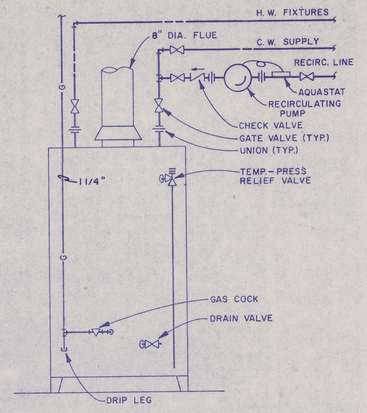


BOILER PIPING DETAIL
NO SCALE

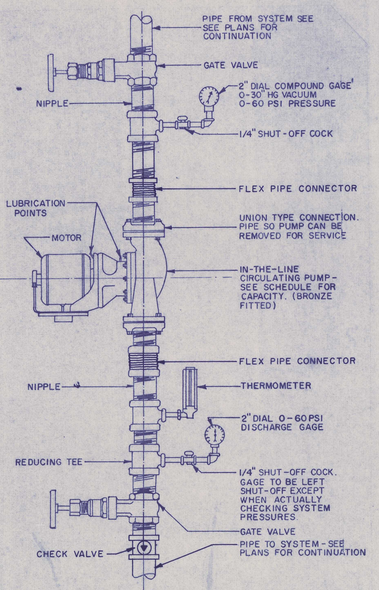


NOTE: PIPING SHOWN DASHED FURNISHED WITH SOFTENING EQUIPMENT

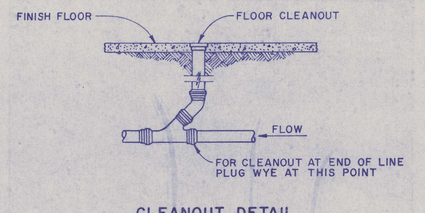
WATER SOFTENER PIPING DETAIL
NO SCALE (ALTERNATE M-1)



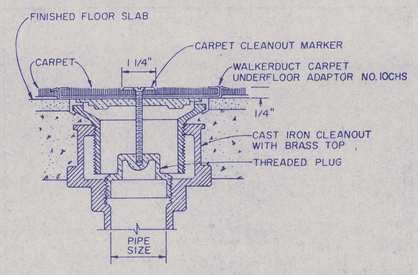
WATER HEATER DETAIL
NO SCALE



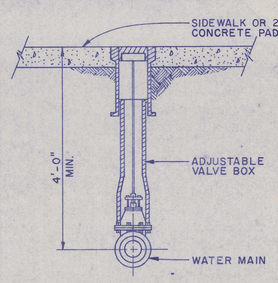
INLINE PUMP DETAIL FOR P-1
NO SCALE



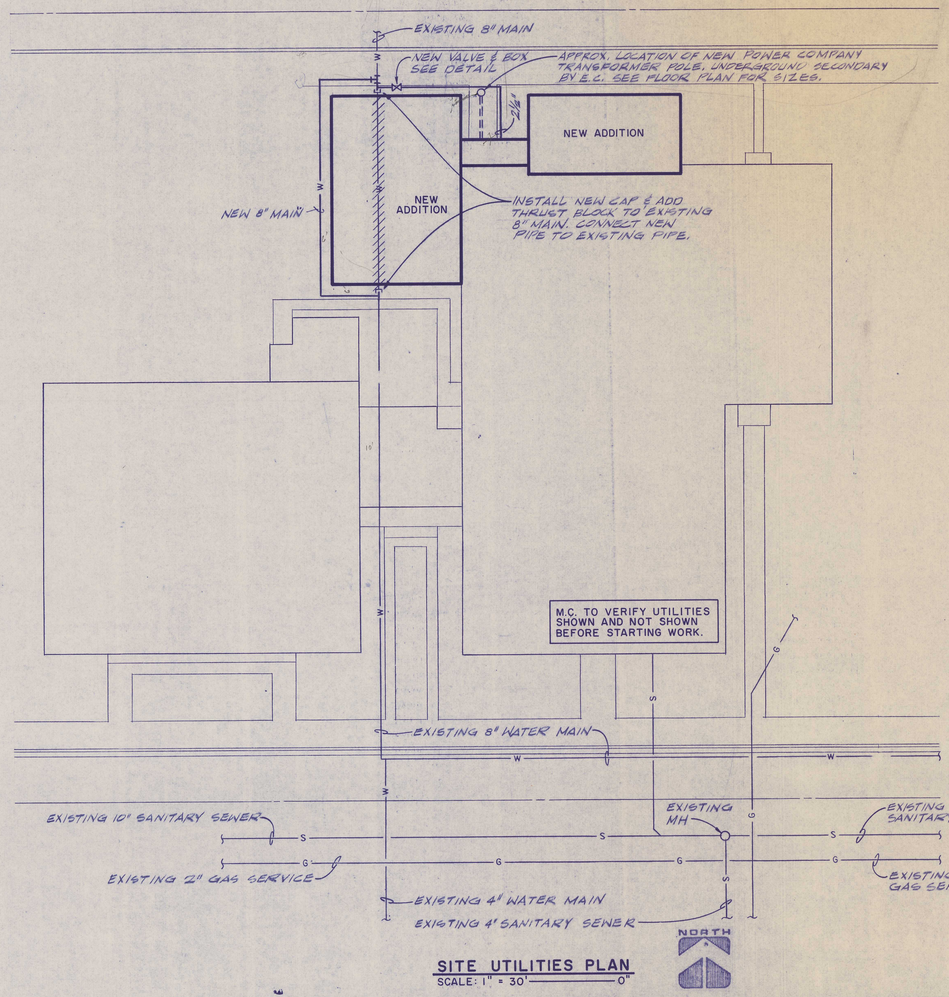
CLEANOUT DETAIL
NO SCALE



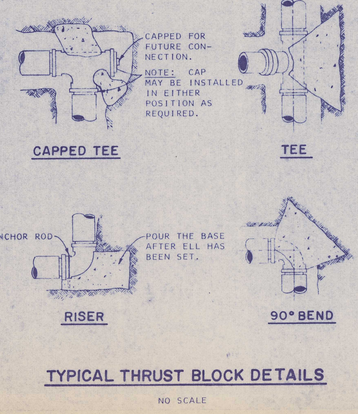
INSTALLATION DETAIL- FLOOR CLEANOUT (CARPET AREA)
NO SCALE



VALVE BOX SETTING DETAIL
NO SCALE



SITE UTILITIES PLAN
SCALE: 1" = 30'



TYPICAL THRUST BLOCK DETAILS
NO SCALE

GRILLE, REGISTER & DIFFUSER SCHEDULE

PLAN CODE	MOUNTING	SIZE	NC MAX	MANUFACTURER AND NUMBER	REMARKS
D-1	DUCT	SEE PLANS	35	TITUS TMSA	1 2 5
D-2	CEILING	SEE PLANS	30	TITUS TXS	1 3 4 5
R-1	CEILING	SEE PLANS	30	TITUS TXR	1 3 4
R-2	DUCT	SEE PLANS	35	TITUS 4-FS5	1 2 5
G-1	SIDEWALL	SEE PLANS	35	TITUS 4-FS	2 5

1. PROVIDE OPPOSED BLADE DAMPER.
2. FINISH TO BE STANDARD.
3. PROVIDE OFF WHITE FINISH.
4. PROVIDE BLACK INTERIOR.
5. VERIFY FRAME REQUIRED.

EXHAUST FAN SCHEDULE

PLAN CODE	LOCATION	TYPE	CFM	S.P. IN H₂O	RPM	HP	MAX SONES	MANUFACTURER & NUMBER	REMARKS
EF-1	SEE PLANS	CENTRIF.	1730	0.5	1140	3/8	10	ILG CRF-150	1 2 3
EF-2	SEE PLANS	CENTRIF.	1730	0.5	1140	3/8	10	ILG CRF-150	1 2 3
EF-3	SEE PLANS 2 REQ.	CENTRIF.	90	0.1	1645	1/70	10	ILG CCV-100	1 4 5
EF-4	SEE PLANS	CENTRIF.	310	0.25	1030	1/7	10	ILG CRF-100	1 2 6
EF-5	SEE PLANS	CENTRIF.	90	0.1	1645	1/70	10	ILG CCV-100	1 4 5
EF-6	SEE PLANS	CENTRIF.	1040	0.375	1000	1/4	10	ILG CRF-135	1 2 4 7
EF-7								SEE SPECS	

UNITS SUITABLE FOR 115 VOLT, 1Ø POWER.
1. PROVIDE BACKDRAFT DAMPER AND DISCONNECT MEANS.
2. PROVIDE FIELD BUILT OR FACTORY PRE-FAB CURB.
3. SEE CONTROL SPEC FOR FAN OPERATION.
4. CONTROL FROM SWITCH BY E.C.
5. PROVIDE ROOF JACK.
6. CONTROL FROM WALL THERMOSTAT.
7. EXPLOSION PROOF.

CABINET UNIT HEATER SCHEDULE

PLAN CODE	LOCATION	HEATING MEDIA	UNIT TYPE	CFM	CAPACITY GPM	CAPACITY MBH	CAPACITY AIR T°F	PIPE SIZE CONN.	MOTOR H.P.	FAN RPM	ELEC. VOLTS	ELEC. PHASE	MANUF. & NO.	REMARKS
FCU-1	FEMALE LOCKERS	WATER	HORIZ.	1730	12.9	198	-6	2"	3/4	600	240	1	MCQUAY SCB701A	1,2,3
FCU-2	MALE LOCKERS	WATER	HORIZ.	1730	12.9	198	-6	2"	3/4	600	240	1	MCQUAY SCB201A	1,2,3
FCU-3	MULTI-PUR. ROOM	WATER	HORIZ.	3200	10.0	150	70	2"	1.0	860	240	3	MCQUAY SCB301A	2,3,
FCU-4	CORRIDOR	WATER	HORIZ.	300	0.5	7.5	70	3/4"	1/12	1370	115	1	MCQUAY CHB003A	3,4,5
FCU-5	SEE PLANS	WATER	HORIZ.	300	0.5	7.5	70	3/4"	1/12	1370	115	1	MCQUAY CHB003A	3,4,6
FCU-6	CLASSROOM	WATER	HORIZ.	450	1.3	20.0	70	3/4"	1/7	1315	115	1	MCQUAY CHB006A	3,4,5
FCU-7	METAL SHOP	WATER	HORIZ.	2700	9.5	140	70	1½"	1.0	960	240	3	MCQUAY SCB301A	2,3
FCU-8	WOOD SHOP	WATER	HORIZ.	3200	6.0	90	70	1"	1.0	860	240	3	MCQUAY SCB301A	2,3

HEATING DATA: ENT. WATER TEMP = 200°F. MAX COIL P.D. WATER = 5', CFM @ 0.25" S.P. EXTERNAL TO UNIT.
DISCONNECT MEANS BY E.C.
1. PROVIDE ACCESS PANEL BELOW UNIT.
2. PROVIDE DUCT FLANGE AS REQUIRED.
3. SUSPEND ON RUBBER-IN SHEAR ISOLATORS FROM STRUCTURE.
4. PROVIDE WALL PLATE FOR CEILING INSTALLATION.
5. PROVIDE ARRANGEMENT 3U.
6. PROVIDE ARRANGEMENT 3G.

PUMP SCHEDULE

PLAN CODE	SERVICE	GPM	HEAD FT	MOTOR HP	VOLTS	PHASE	CYCLE	MANUFACTURER & NUMBER	REMARKS
P-1	HOT WATER	63	60	3.0	240	3	60	B&G SERIES 80 IN LINE 2X2X9½	1

1. PROVIDE FLEX PIPE CONNECTORS ON INLET AND OUTLET OF PUMP.

MECHANICAL SYMBOL LEGEND

PLUMBING		H.V.A.C.	
———	COLD WATER PIPING	⊠	SUPPLY DUCT (CROSS SECT.)
———	DOMESTIC HOT WATER SUPPLY	⊠	RETURN OR EXCH. AIR (X-SECT.)
———	DOMESTIC HOT WATER RETURN	10X6	AIR DUCT (FIRST-SIDE SHOWN)
—T—	TEMPERED WATER		ROUND DUCT
———	SOIL OR WASTE BELOW GRADE		ROUND DUCT CROSS SECTION
———	SOIL OR WASTE ABOVE GRADE		TURNING VANES
		VD	VOLUME CONTROL DAMPER
———	VENT PIPING		OPPOSED BLADE DAMPER
—HB	HOSE BIB		PARALLEL BLADE DAMPER
—WH	WALL HYDRANT	O.A.	OUTSIDE AIR
—CO	CLEAN OUT	R.A.	RETURN AIR
FD	FLOOR DRAIN	F.D.	FIRE DAMPER
VTR	VENT THRU ROOF	T	THERMOSTAT
WC	WATER CLOSET		SPLITTER
UR	URINAL		EXTRACTOR
L	LAVATORY	TG	THERMOSTAT W/GUARD
S	SINK		VALVES AND FITTINGS
DF	DRINKING FOUNTAIN		CAPPED CONNECTION
EWC	ELECTRIC WATER COOLER		ELBOW
SH	SHOWER		ELBOW-OUTLET DOWN
HWH	HOT WATER HEATER		ELBOW-OUTLET UP
SB	SERVICE BASIN		TEE
	MISC. PIPING		TEE-OUTLET DOWN
—RL—	REFRIGERANT LIQUID		TEE-OUTLET UP
—RS—	REFRIGERANT SUCTION		STRAINER
—C—	CONDENSATE DRAIN		GATE VALVE
—G—	GAS PIPING		BALANCING OR PLUG VALVE
—S—	STORM DRAIN ABOVE SLAB		CHECK VALVE (ARROW IND. FLOW)
—S—	STORM DRAIN BELOW SLAB		VALVE IN VERTICAL LINE
—A—	ACID WASTE		THERMOMETER
—A—	ACID VENT		UNION
—HRS—	HEAT RECOVERY SUPPLY		
—HRR—	HEAT RECOVERY RETURN		
—HWS—	HEATING WATER SUPPLY		
—HWR—	HEATING WATER RETURN		

REGISTERED PROFESSIONAL ENGINEER — WILLIAM E. HORST A-3999 — STATE OF NEBRASKA

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

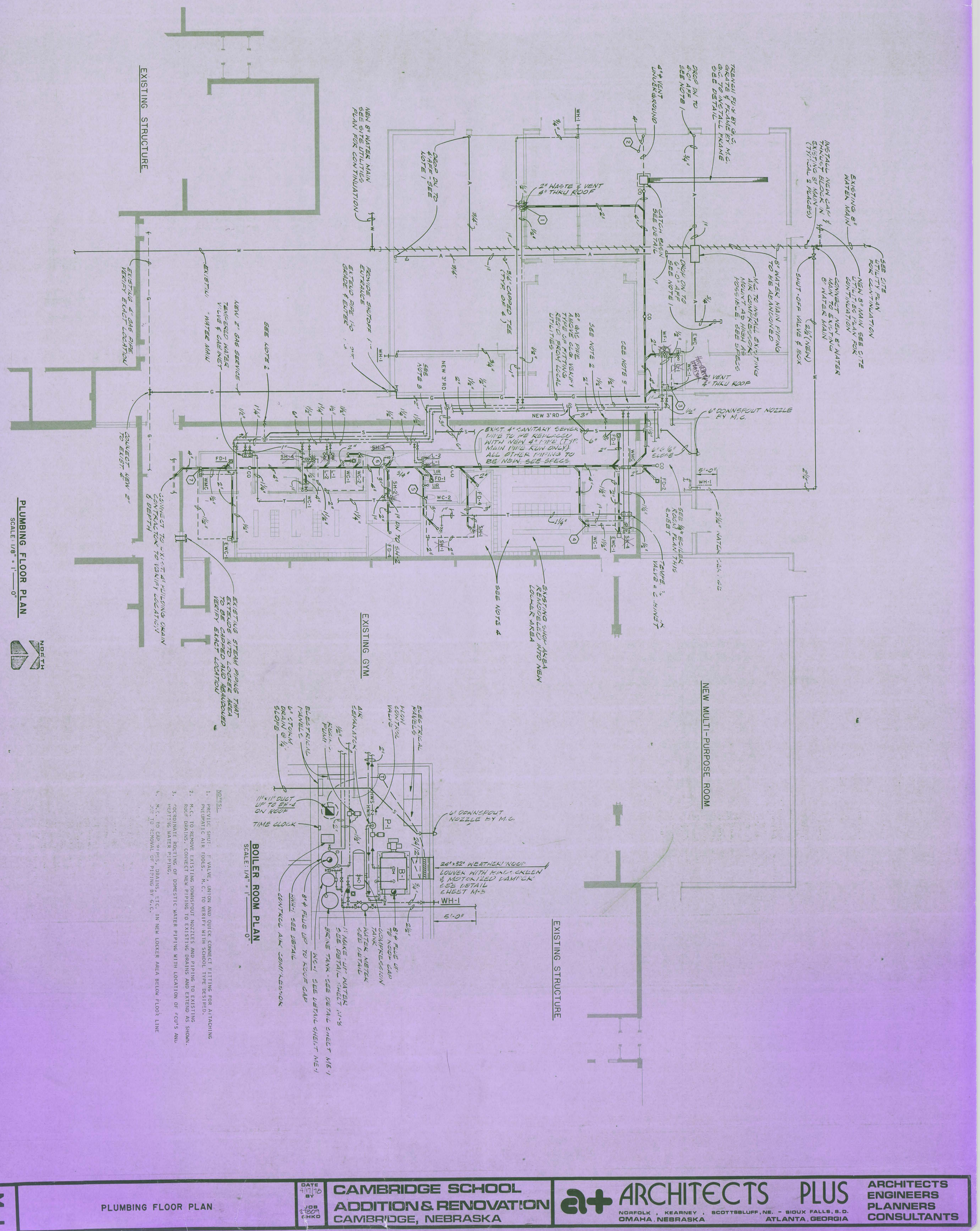
DATE 4/10/71
BY
JOB 7108
CHKD

SITE UTILITIES PLAN, DETAILS & SCHEDULES

M-1

SHEET

A & D TECHNICAL SUPPLY COMPANY, INC.



PLUMBING FLOOR PLAN

SCALE: 1/8" = 1'——0"

BOILER ROOM PLAN

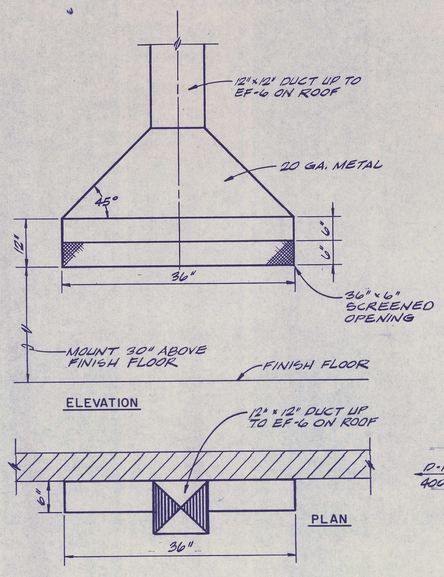
SCALE: 1/4" = 1'——0"

NOTES:

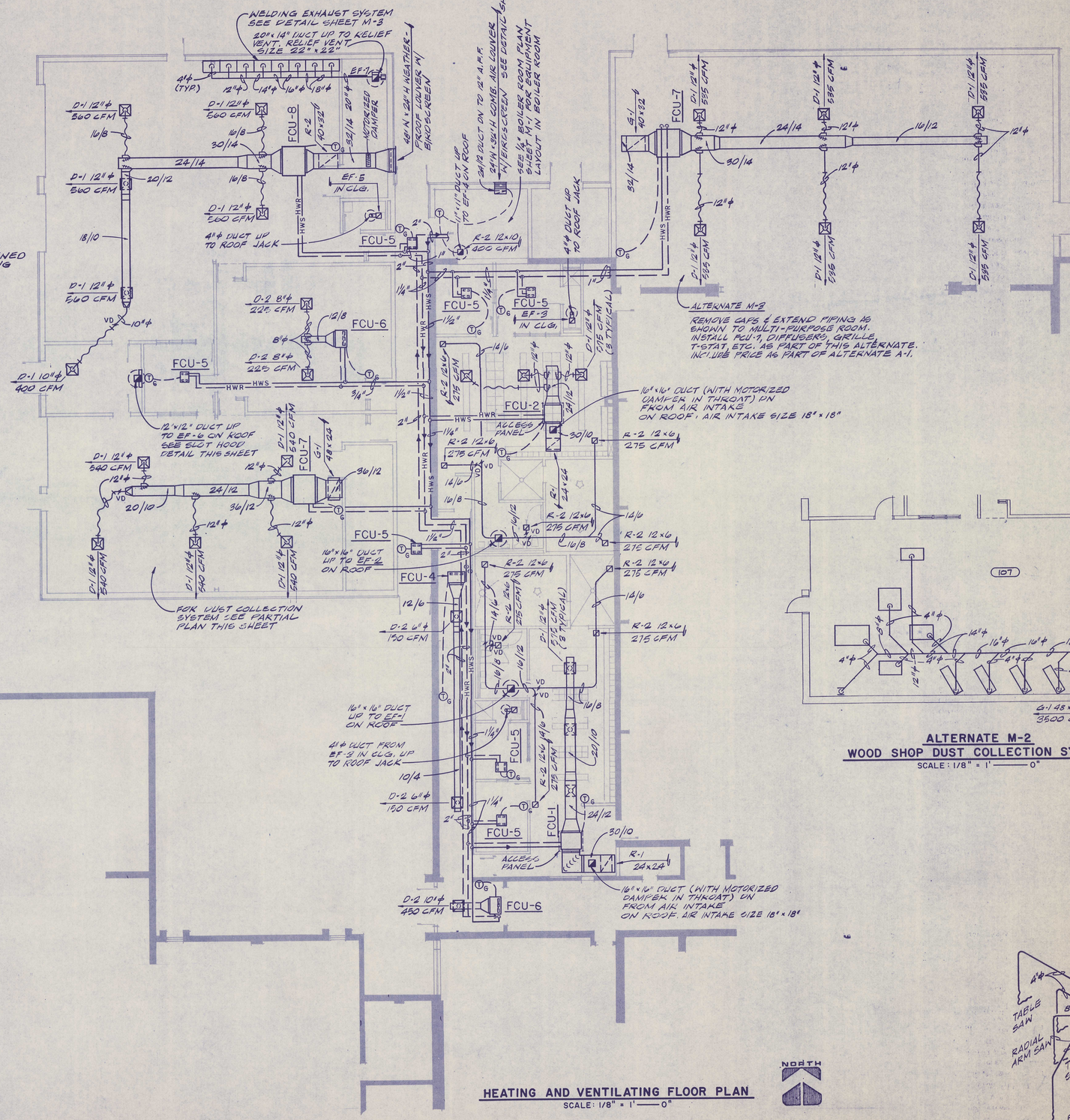
1. PROVIDE SHUT-OFF VALVE, UNION AND QUICK CONNECT FITTING FOR ATTACHING PNEUMATIC AIR TOOLS. M.C. TO VERIFY WITH SCHOOL TYPE DESIRED.
2. M.C. TO REMOVE EXISTING DOWNSPOUT NOZZLES AND PIPING TO EXISTING ROOF DRAINS. CONNECT NEW PIPING TO EXISTING DRAINS AND EXTEND AS SHOWN.
3. COORDINATE ROUTING OF DOMESTIC WATER PIPING WITH LOCATION OF FCU'S AND HEATING WATER PIPING.
4. M.C. TO CAP PIPES, DRAINS, ETC. IN NEW LOCKER AREA BELOW FLOOR LINE DUE TO REMOVAL OF PIPING BY G.C.

NORTH

SHEET		DATE		
M-1	PLUMBING FLOOR PLAN	4/17/78	CAMBRIDGE SCHOOL ADDITION & RENOVATION CAMBRIDGE, NEBRASKA	a+ ARCHITECTS PLUS NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D. OMAHA, NEBRASKA ATLANTA, GEORGIA
		BY		ARCHITECTS ENGINEERS PLANNERS CONSULTANTS
		JOB 7705		
		CHKD		



SLOT HOOD DETAIL
NO SCALE

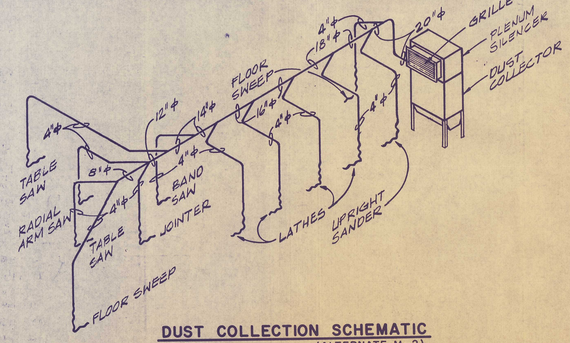


HEATING AND VENTILATING FLOOR PLAN
SCALE: 1/8" = 1'—0"

NOTES:

1. DUCTWORK DIMENSIONS ON PLANS AND DETAILS GIVE THE SIDE OF DUCT YOU SEE FIRST. ALL DIMENSIONS ARE IN INCHES AND ARE INSIDE CLEAR DIMENSIONS.
2. COORDINATE THE LOCATION OF ALL MECHANICAL EQUIPMENT WITH OTHER TRADES ON THE SITE BEFORE PROCEEDING WITH WORK..
3. SINGLE LINE DUCTWORK DRAWINGS ARE FOR INDICATING THE GENERAL SYSTEM LAYOUT. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION AS SPECIFIED WITH 1-1/2 RADIUS ELBOWS, DUCT-TURNS, SPLITTER DAMPERS, EXTRACTORS, ETC. TRANSITION AS REQUIRED TO FORM LONG TAPERED CONNECTIONS AND TO COMPENSATE FOR OTHER TRADES WORKING SPACE AND UNFORESEEN CONDITIONS INDICATED OR OTHERWISE. SEE DUCT DETAILS.
4. WHERE DUCTWORK PENETRATES FULL HEIGHT PARTITIONS (EXTENDING UP TO UNDERSIDE OF ROOF DECK), THE MECHANICAL CONTRACTOR SHALL PACK SNUG WITH FIBERGLASS INSULATION THE GAP BETWEEN WALL OPENINGS AND DUCT EDGE.
5. VOLUME DAMPERS ABOVE PLASTER CEILINGS SHALL HAVE EXTENSION RODS AND CHROME PLATED ESCUTCHEON PLATES. TYPICAL FOR ALL PLASTER CEILINGS.
6. —|—□— DENOTES OPENING IN FULL HEIGHT WALLS ABOVE CEILING. OPENING CAN BE BLOCKS LEFT OUT OR DUCTWORK. OPENINGS 24" AND LARGER TO BE SLEEVED.

ALTERNATE M-2
WOOD SHOP DUST COLLECTION SYSTEM
SCALE: 1/8" = 1'—0"



DUST COLLECTION SCHEMATIC
NO SCALE (ALTERNATE M-2)

ARCHITECTS ENGINEERS PLANNERS CONSULTANTS
a+ ARCHITECTS PLUS
NORFOLK - KEARNEY - SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

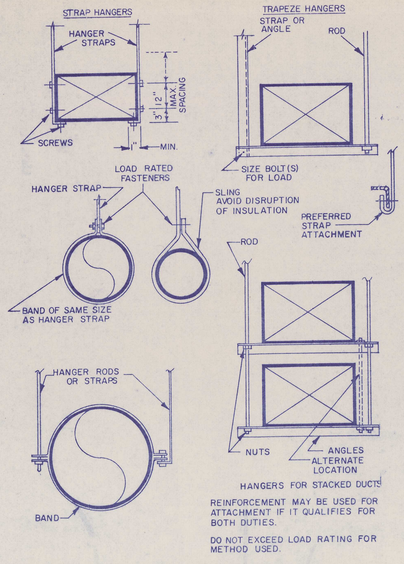
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4/1/76
BY
JOB 7525
CHKD

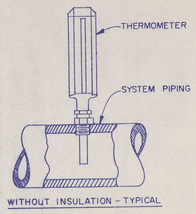
HEATING & VENTILATING FLOOR PLAN

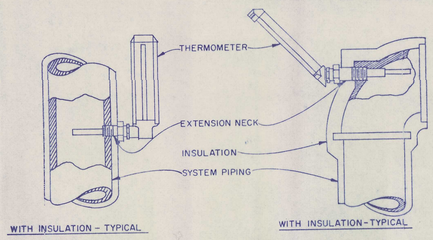
M-2
SHEET

A & B TECHNICAL SUPPLY COMPANY, INC.

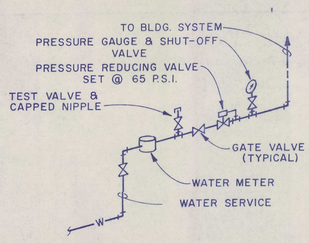


DUCT HANGER DETAILS
NO SCALE

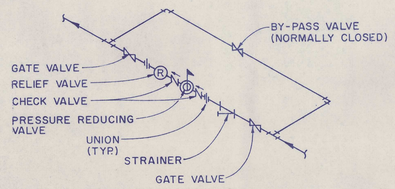




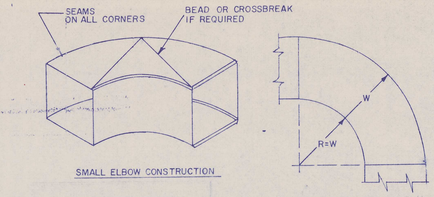
THERMOMETER INSTALLATION DETAIL
NO SCALE



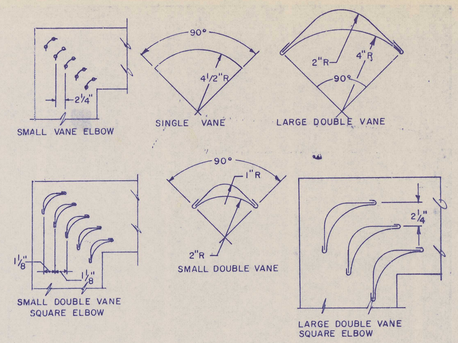
WATER SERVICE ENTRY DETAIL
NO SCALE



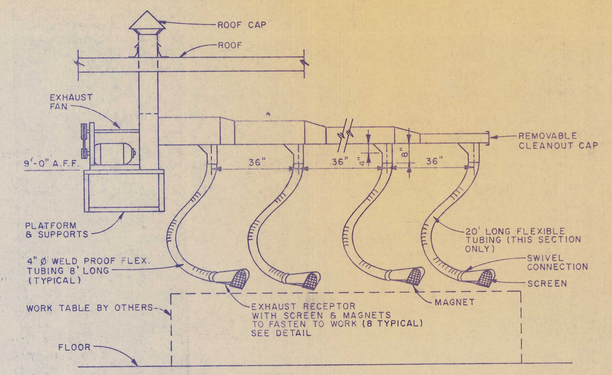
MAKE-UP WATER CONNECTION DETAIL
NO SCALE



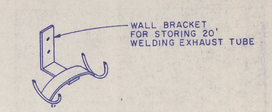
STANDARD RADIUS ELBOWS
NO SCALE



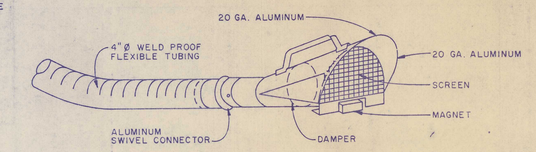
VANED ELBOW DETAILS
NO SCALE



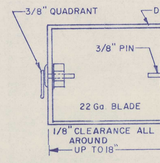
WELDING EXHAUST SYSTEM DETAIL
NO SCALE

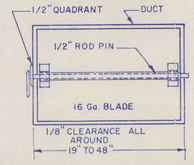


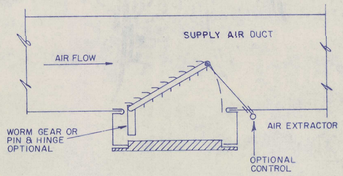
BRACKET DETAIL
NO SCALE



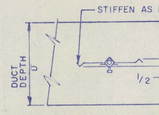
WELDING FUME EXHAUST RECEPTOR DETAIL
NO SCALE

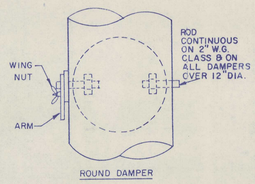


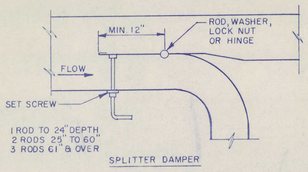




EXTRACTORS, GRIDS & DAMPERS MUST NOT DAMAGE LINERS

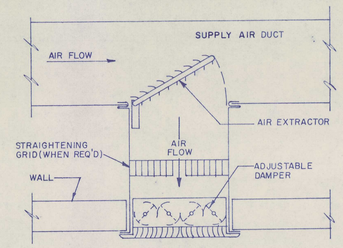






VOLUME DAMPERS
NO SCALE

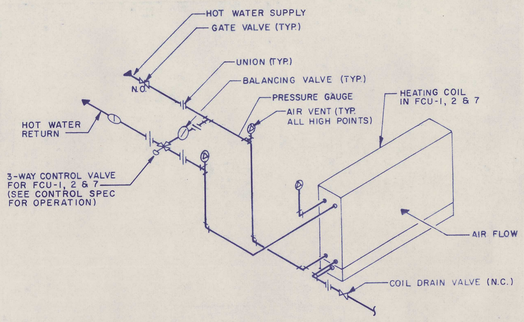
WATER SERVICE ENTRY DETAIL
NO SCALE



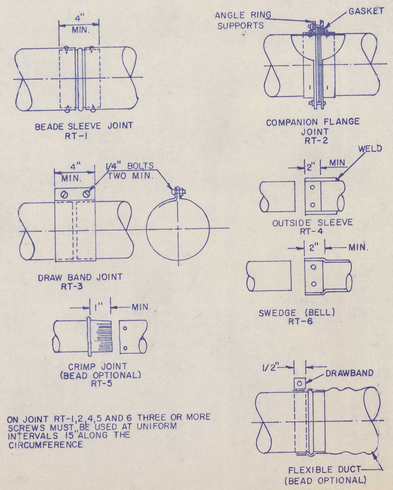
NOTE: DIFFUSER OR REGISTER CONTAINS VOLUME CONTROL AT GRILLE. GRILLE HAS NO VOLUME CONTROL.

BORDER FLANGES MUST COVER DUCT FLANGES

GRILLE, REGISTER AND DIFFUSER CONNECTIONS
NO SCALE

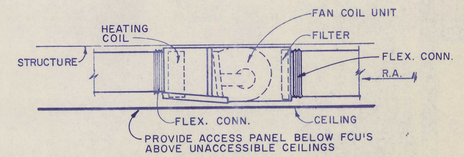


METAL SHOP & LOCKER ROOM FCU WATER COIL PIPING DETAIL
NO SCALE

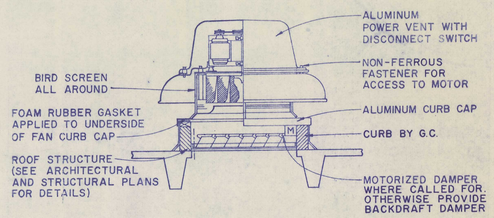


ON JOINT RT-1, 2, 4, 5 AND 6 THREE OR MORE SCREWS MUST BE USED AT UNIFORM INTERVALS 15° ALONG THE CIRCUMFERENCE

TRANSVERSE JOINTS — ROUND DUCT
NO SCALE

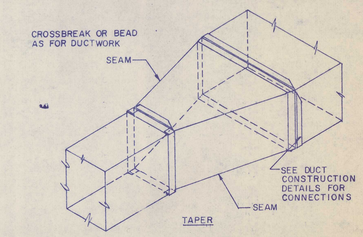


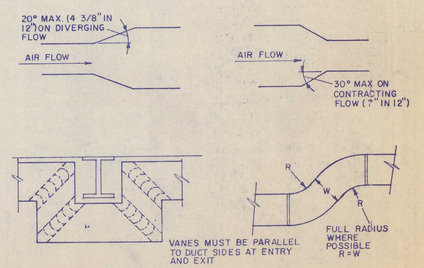
FAN COIL UNIT DETAIL
NO SCALE



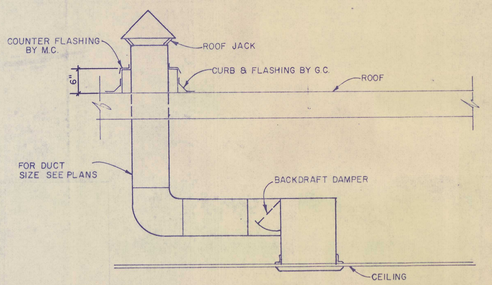
ROOF EXHAUSTER DETAIL
NO SCALE

LARGEST DIMENSION GOVERNS CONSTRUCTION

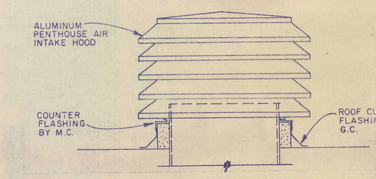




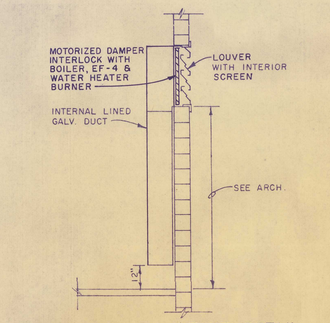
TRANSITIONS AND OFFSETS
NO SCALE



CEILING EXHAUST FAN DETAIL
NO SCALE



RELIEF VENT AND AIR INTAKE DETAIL
NO SCALE



COMBUSTION AIR INTAKE DETAIL
NO SCALE

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK - KEARNEY - SCOTTSBLUFF, NE - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

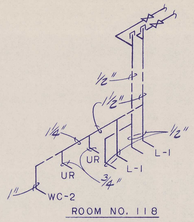
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-7-71
BY
JOB 2108
DWG
CHKD

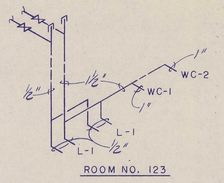
MECHANICAL DETAILS

M-3
SHEET

A & D TECHNICAL SUPPLY COMPANY, INC.

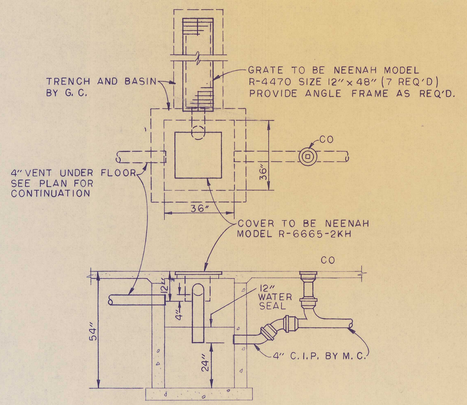


ROOM NO. 118

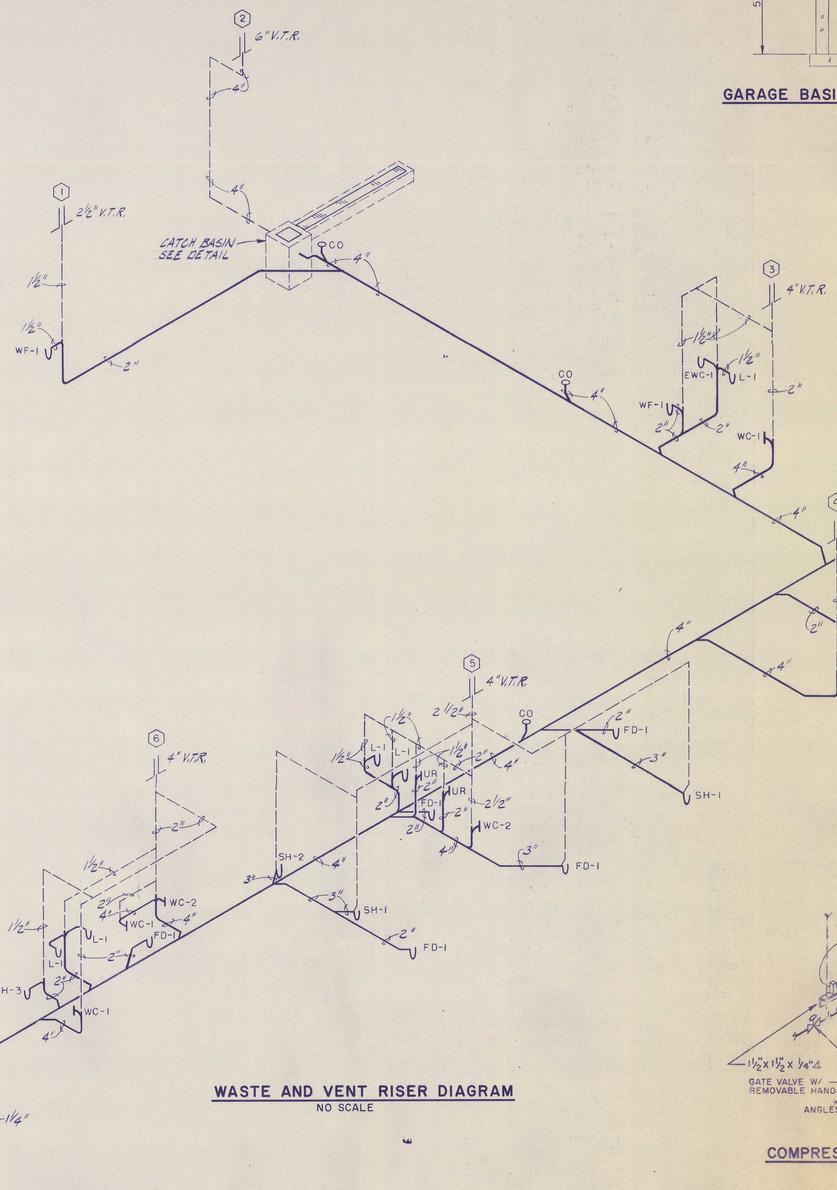


ROOM NO. 123

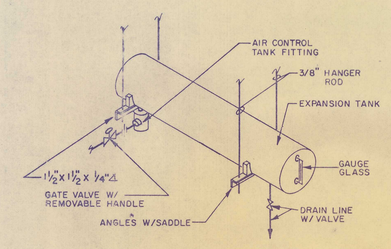
WATER RISER DIAGRAMS
NO SCALE



GARAGE BASIN AND DRAIN DETAIL
NO SCALE



WASTE AND VENT RISER DIAGRAM
NO SCALE



COMPRESSION TANK DETAIL
NO SCALE

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

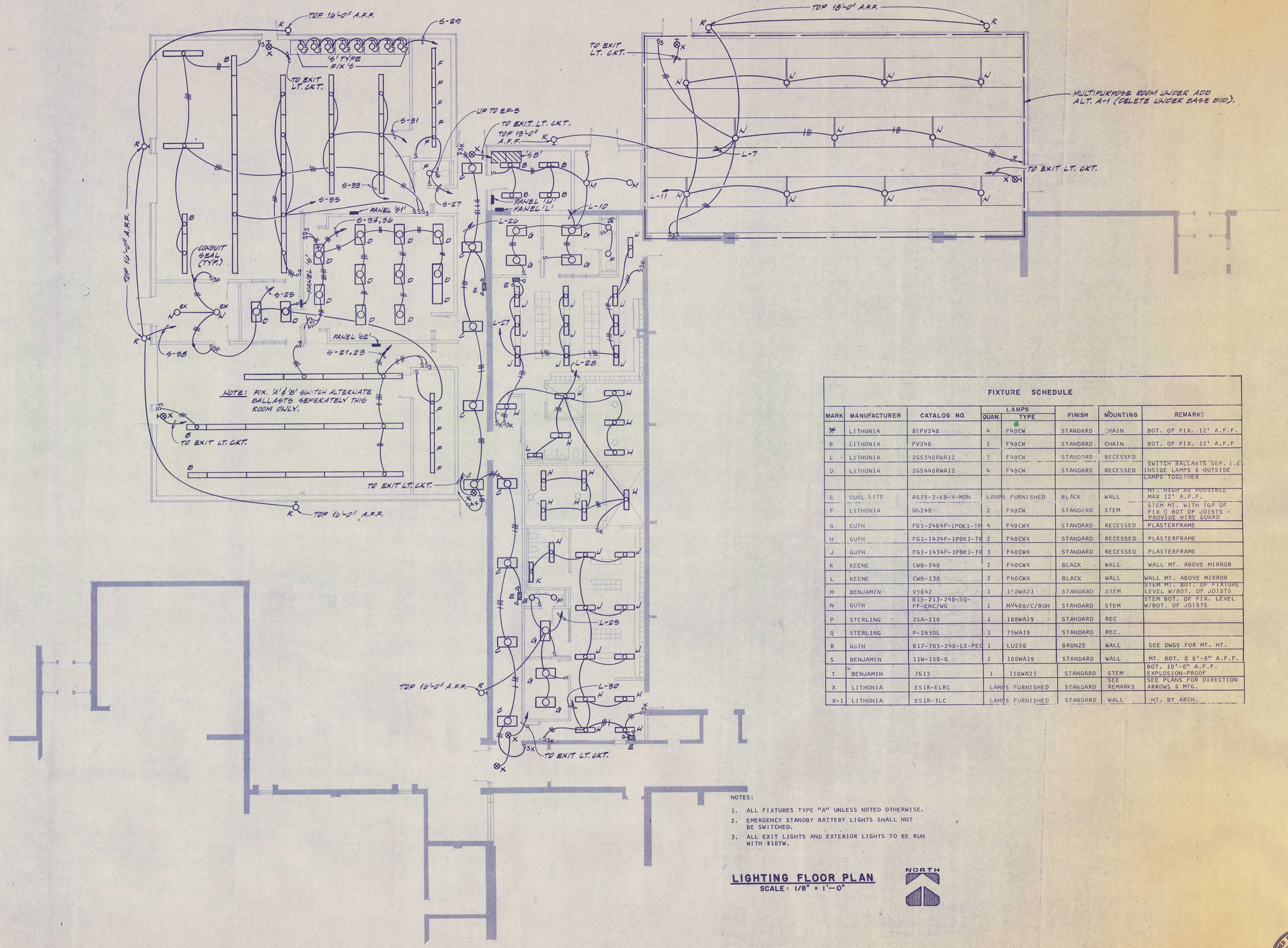
CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4.17.79
BY
JOB 7801
CHKD

WASTE AND VENT RISER DIAGRAM AND DETAILS

M-4
SHEET

A & S TECHNICAL SUPPLY COMPANY, INC.



FIXTURE SCHEDULE							
MARK	MANUFACTURER	CATALOG NO.	LAMPS QUAN.	LAMPS TYPE	FINISH	MOUNTING	REMARKS
A	LITHONIA	8TPV240	4	F40CW	STANDARD	CHAIN	BOT. OF FIX. 12' A.F.F.
B	LITHONIA	PV240	2	F40CW	STANDARD	CHAIN	BOT. OF FIX. 12' A.F.F
C	LITHONIA	2GS340RWA12	3	F40CW	STANDARD	RECESSED	
D	LITHONIA	2GS440RWA12	4	F40CW	STANDARD	RECESSED	SWITCH BALLASTS SEP. I.E. INSIDE LAMPS & OUTSIDE LAMPS TOGETHER
E	DUAL LITE	AS75-2-KB-V-MON	LAMPS FURNISHED		BLACK	WALL	MT. HIGH AS POSSIBLE MAX 12' A.F.F.
F	LITHONIA	UN240	2	F40CW	STANDARD	STEM	STEM MT. WITH TOP OF FIX @ BOT OF JOISTS - PROVIDE WIRE GUARD
G	GUTH	FG1-2464F-1POK1-TP	4	F40CWX	STANDARD	RECESSED	PLASTERFRAME
H	GUTH	FG1-1424F-1POK1-TP	2	F40CWX	STANDARD	RECESSED	PLASTERFRAME
J	GUTH	FG1-1434F-1POK1-TP	3	F40CWX	STANDARD	RECESSED	PLASTERFRAME
K	KEENE	CWB-240	2	F40CWX	BLACK	WALL	WALL MT. ABOVE MIRROR
L	KEENE	CWB-230	2	F40CWX	BLACK	WALL	WALL MT. ABOVE MIRROR
M	BENJAMIN	V5642	1	150WA21	STANDARD	STEM	STEM MT. BOT. OF FIXTURE LEVEL W/BOT. OF JOISTS
N	GUTH	B15-213-240-SQ-FF-ENC/WG	1	MV400/C/BUH	STANDARD	STEM	STEM BOT. OF FIX. LEVEL W/BOT. OF JOISTS
P	STERLING	2SA-210	1	100WA19	STANDARD	REC	
Q	STERLING	P-265DL	1	75WA19	STANDARD	REC.	
R	GUTH	B17-705-240-LS-PEC	1	LU250	BRONZE	WALL	SEE DWGS FOR MT. HT.
S	BENJAMIN	11W-150-G	1	100WA19	STANDARD	WALL	MT. BOT. @ 6'-0" A.F.F.
T	BENJAMIN	7612	1	150WA23	STANDARD	STEM	BOT. 10'-0" A.F.F. EXPLOSION-PROOF
X	LITHONIA	ES1R-ELRC	LAMPS FURNISHED		STANDARD	SEE REMARKS	SEE PLANS FOR DIRECTION ARROWS & MTG.
X-1	LITHONIA	ES1R-3LC	LAMPS FURNISHED		STANDARD	WALL	HT. BY ARCH.

NOTES:

1. ALL FIXTURES TYPE "A" UNLESS NOTED OTHERWISE.
2. EMERGENCY STANDBY BATTERY LIGHTS SHALL NOT BE SWITCHED.
3. ALL EXIT LIGHTS AND EXTERIOR LIGHTS TO BE RUN WITH #10TW.

LIGHTING FLOOR PLAN

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

NORTH

REGISTERED PROFESSIONAL ENGINEER
GEORGE C. MEHURON
E-1413
STATE OF NEBRASKA

ARCHITECTS PLUS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4/17/78
JOB 27809
CHKD

LIGHTING FLOOR PLAN

E-1
SHEET

4

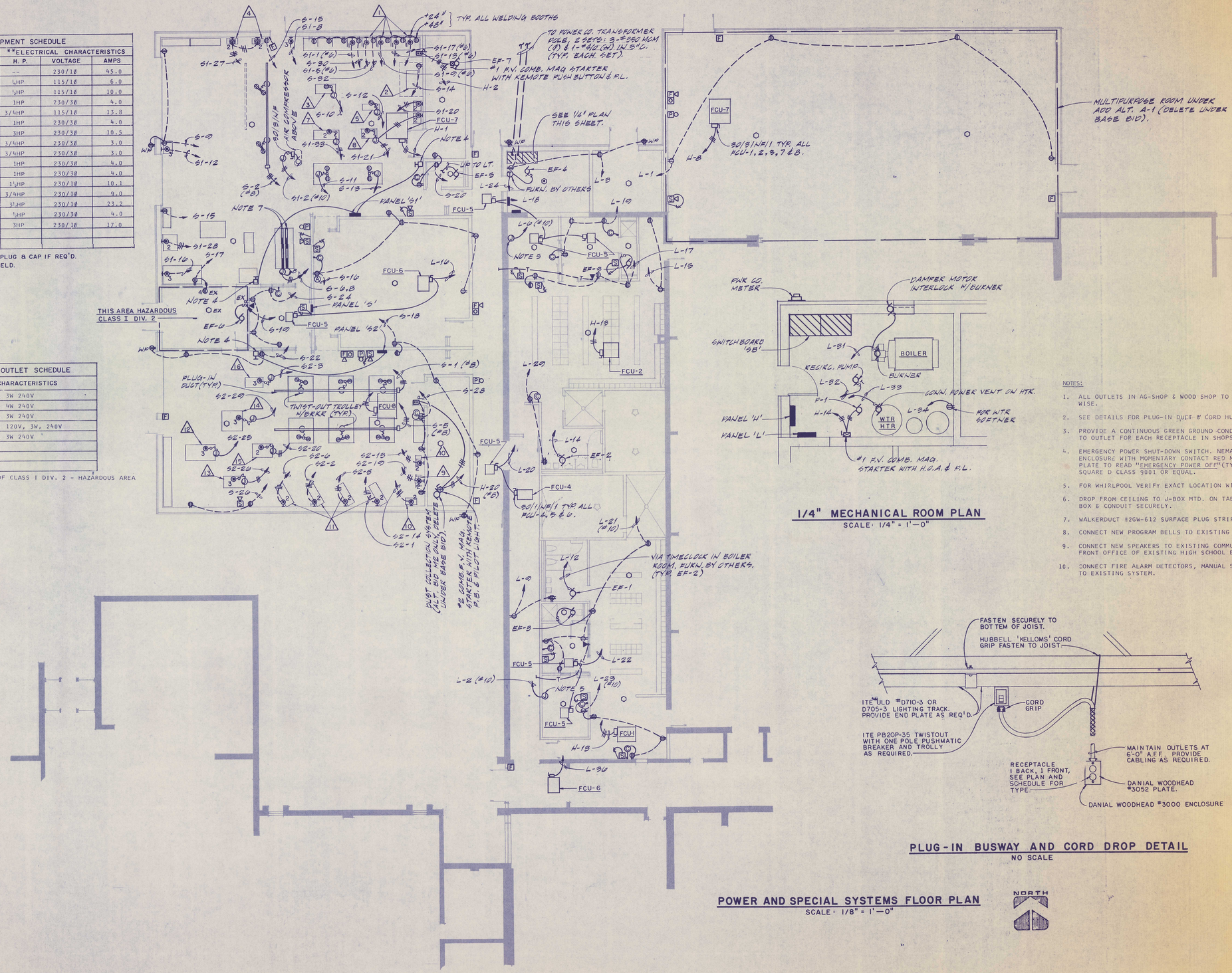
A & D TECHNICAL SUPPLY COMPANY, INC.

SHOP EQUIPMENT SCHEDULE				
MARK	*EQUIPMENT	**ELECTRICAL CHARACTERISTICS		
		H. P.	VOLTAGE	AMPS
1	WELDER	--	230/1ø	45.0
2	GAS FORGE	¼HP	115/1ø	6.0
3	BAND SAW	½HP	115/1ø	10.0
4	GRINDER	1HP	230/3ø	4.0
5	HACKSAW	3/4HP	115/1ø	13.8
6	DRILL PRESS	1HP	230/3ø	4.0
7	LATHE	3HP	230/3ø	10.5
8	DRILL PRESS	3/4HP	230/3ø	3.0
9	GRINDER	3/4HP	230/3ø	3.0
10	SANDER	1HP	230/3ø	4.0
11	LATHE	1HP	230/3ø	4.0
12	TABLE SAW	1½HP	230/1ø	10.1
13	JOINTER	3/4HP	230/1ø	9.0
14	RADIAL ARM SAW	3½HP	230/1ø	23.2
15	BAND SAW	½HP	230/3ø	4.0
16	TABLE SAW	3HP	230/1ø	17.0

*PROVIDE TWIST LOCK, CORD PLUG & CAP IF REQ'D.
**VERIFY REQUIREMENTS IN FIELD.

SPECIAL OUTLET SCHEDULE	
MARK	CHARACTERISTICS
1	50AMP 1ø, 3W 240V
2	20AMP 3ø, 4W 240V
3	20AMP 1ø, 3W 240V
#4	20AMP 1ø, 120V, 3W, 240V
5	30AMP 1ø, 3W 240V

EXPLOSION-PROOF CLASS I DIV. 2 - HAZARDOUS AREA



1/4" MECHANICAL ROOM PLAN
SCALE: 1/4" = 1'-0"

NOTES:

1. ALL OUTLETS IN AG-SHOP & WOOD SHOP TO BE 48" A.F.F. UNLESS NOTED OTHERWISE.
2. SEE DETAILS FOR PLUG-IN DUCT & CORD HUNG OUTLETS.
3. PROVIDE A CONTINUOUS GREEN GROUND CONDUCTOR FROM GROUND BUS IN PANEL TO OUTLET FOR EACH RECEPTACLE IN SHOPS.
4. EMERGENCY POWER SHUT-DOWN SWITCH. NEMA 13 SINGLE STATION CONTROL ENCLOSURE WITH MOMENTARY CONTACT RED MUCHROOM PUSH-BUTTON & LEGEND PLATE TO READ "EMERGENCY POWER OFF" (TYPICAL 3 PLCS.) ALL EQUIPMENT SQUARE D CLASS 9001 OR EQUAL.
5. FOR WHIRLPOOL VERIFY EXACT LOCATION WITH ARCHITECT.
6. DROP FROM CEILING TO J-BOX MTD. ON TABLE & CONNECT PLUG-STRIP. FASTEN BOX & CONDUIT SECURELY.
7. WALKERDUCT #2GW-612 SURFACE PLUG STRIP.
8. CONNECT NEW PROGRAM BELLS TO EXISTING PROGRAM SYSTEM. SEE SPECS.
9. CONNECT NEW SPEAKERS TO EXISTING COMMUNICATION SYSTEM LOCATED IN FRONT OFFICE OF EXISTING HIGH SCHOOL BUILDING. SEE SPECS.
10. CONNECT FIRE ALARM DETECTORS, MANUAL STATIONS, AND ALARM DEVICES TO EXISTING SYSTEM.

PLUG-IN BUSWAY AND CORD DROP DETAIL
NO SCALE

POWER AND SPECIAL SYSTEMS FLOOR PLAN
SCALE: 1/8" = 1'-0"

NORTH

a+ ARCHITECTS PLUS
ARCHITECTS
ENGINEERS
PLANNERS
CONSULTANTS
NORFOLK, KEARNEY, SCOTTSBLUFF, NE. - SIOUX FALLS, S.D.
OMAHA, NEBRASKA ATLANTA, GEORGIA

CAMBRIDGE SCHOOL
ADDITION & RENOVATION
CAMBRIDGE, NEBRASKA

DATE 4-11-78
BY
JOB 1758
CHKD

POWER & SPECIAL SYSTEMS FLOOR PLAN

E-2
SHEET

A & B TECHNICAL SUPPLY COMPANY, INC.

120/240V, 1Ø, 3W
200A M.L.O
SURFACE MOUNTED

PANEL S

CIR. NO.	LOAD V.A.	LTS.	REC.	LOAD DESCRIPTION	P	AMP SIZE	PHASE	AMP SIZE	P	LOAD DESCRIPTION	REC.	LTS.	LOAD V.A.	CIR. NO.
1	8000		X	PLUG-IN DUCT	2	40	A	40	2	PLUG-DUCT	X		8000	2
3	---			---	-	--	B	--	-	---			---	4
5	8000		X	PLUG-IN DUCT	2	40	A	20	1	PLUG STRIP	X		1200	6
7	---			---	-	--	B	20	1	PLUG STRIP	X		1200	8
9	1500		X	AG SHOP	1	20	A	20	1	BAND SAW	X		1200	10
11	1000		X	AG SHOP	1	20	B	20	1	HACK SAW	X		1600	12
13	1000		X	AG SHOP	1	20	A	20	1	FORGE	X		800	14
15	1000		X	AG SHOP	1	20	B	20	1	CORR. CLSRM, SHOP	X		1500	16
17	1000		X	AG SHOP	1	20	A	20	1	CORR. CLSRM, SHOP	X		1200	18
19	800			EF-6	1	20	B	20	1	TOILET, STORAGE	X		1000	20
21	1600	X		RM 107	1	20	A	20	1	SHOP	X		1500	22
23	1400	X		RM 107	1	20	B	20	1	OFFICE	X		1200	24
25	1100	X		RM 104, 105, 108	1	20	A	20	1	SHOP	X		1000	26
27	1200	X		RM 102, 109, 110	1	20	B	20	1	SHOP	X		1000	28
29	800	X		RM 101	1	20	A	20	1	AG SHOP	X		1200	30
31	1000	X		RM 101	1	20	B	20	1	AG SHOP	X		1200	32
33	1300	X		RM 101	1	20	A	20	1	RM 106		X	1100	34
35	1500	X		RM 101	1	20	B	20	1	RM 106		X	1100	36
37				SPARE	1	20	A	20	2	EXTERIOR		X	1200	38
39				SPARE	1	20	B	--	-	---			---	40
41				SPARE	1	20	A	20	1	SPARE				42
43				SPARE	1	20	B	20	1	SPARE				44

32200   28200

120/240V, 3Ø, 3W
225A MAIN BKR WITH SHUNT-TRIP
SURFACE MOUNTED

PANEL S1
GROUND BUS

CIR. NO.	LOAD V.A.	LTS.	REC.	LOAD DESCRIPTION	P	AMP SIZE	PHASE	AMP SIZE	P	LOAD DESCRIPTION	REC.	LTS.	LOAD V.A.	CIR. NO.
1	12000		X	WELDER	2	60	A	30	3	AIR COMP.			6000	2
3	---			---	-	--	B	--	-	---			---	4
5	12000		X	WELDER	2	60	C	--	-	---			---	6
7	---			---	-	--	A	20	2	RM 101			3000	8
9	12000		X	WELDER	2	60	B	--	-	---			---	10
11	---			---	-	--	C	20	2	RM 101			3000	12
13	12000		X	WELDER	2	60	A	--	-	---			---	14
15	---			---	-	--	B	20	2	RM 101			3000	16
17	12000		X	WELDER	2	60	C	--	-	---			---	18
19	---			---	-	--	A	20	3	RM 101			3000	20
21	3000		X	DRILL PRESS	3	20	B	--	-	---			---	22
23	---			---	-	--	C	--	-	---			---	24
25	---			---	-	--	A			SPACE				26
27	3000		X	GRINDER (2)	3	20	B	20	3	RM 101			3000	28
29	---			---	-	--	C	--	-	---			---	30
31	---			---	-	--	A	--	-	---			---	32
33	4000		X	LATHE	3	20	B			SPACE				34
35	---			---	-	--	C			SPACE				36
37	---			---	-	--	A			SPACE				38
39				SPACE			B			SPACE				40
41				SPACE			C			SPACE				42

120/240V, 3Ø, 3W
125A MAIN BKR W/SHUNT TRIP
SURFACE MOUNTED

PANEL S2
GROUND BUS

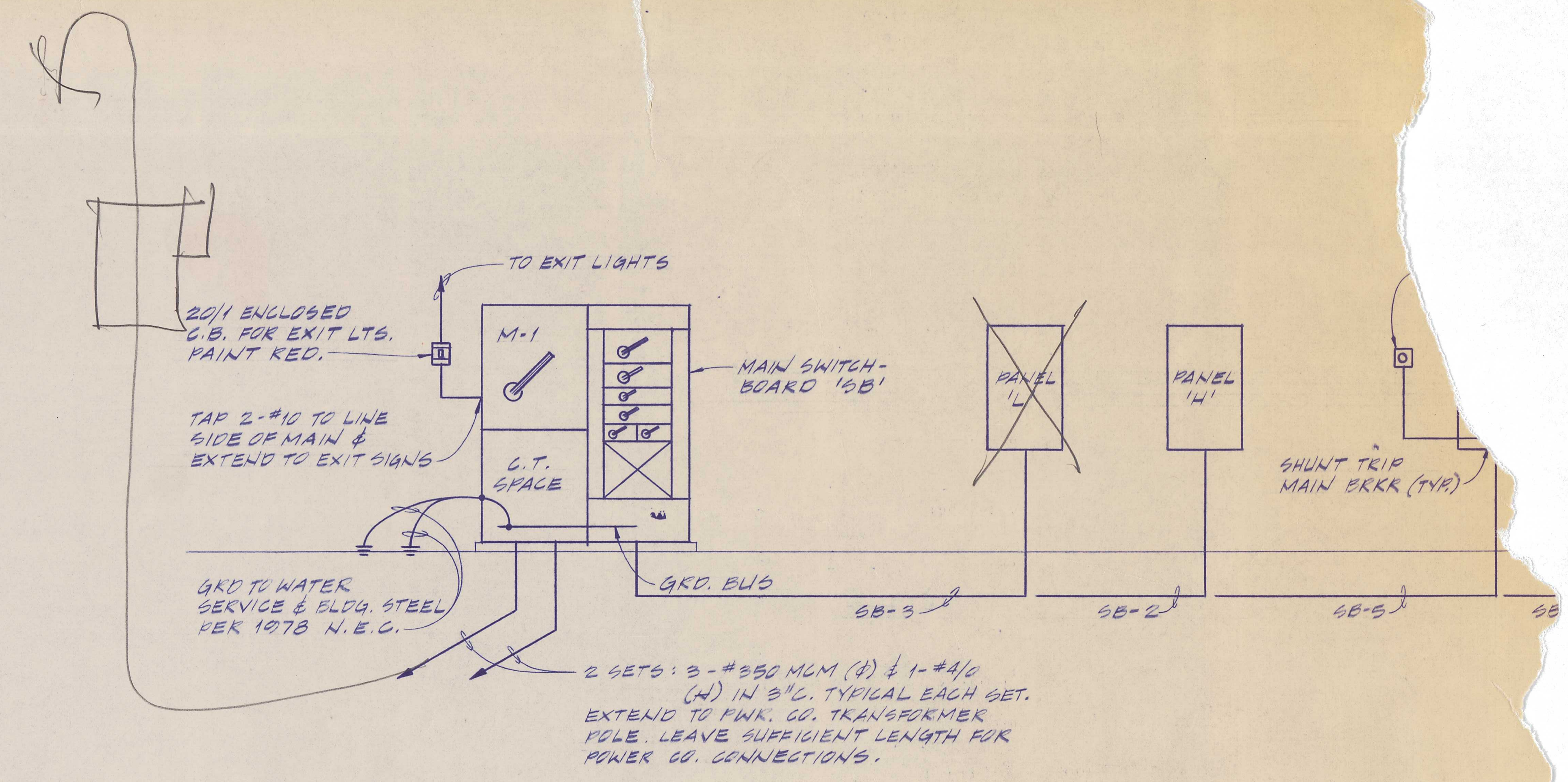
CIR. NO.	LOAD V.A.	LTS.	REC.	LOAD DESCRIPTION	P	AMP SIZE	PHASE	AMP SIZE	P	LOAD DESCRIPTION	REC.	LTS.	LOAD V.A.	CIR. NO.
1	3600			LATHE	3	20	A	20	3	LATHE			3600	2
3	---			---	-	--	B	--	-	---			---	4
5	---			---	-	--	C	--	-	---			---	6
7	3600			LATHE	3	20	A	20	3	LATHE			3600	8
9	---			---	-	--	B	--	-	---			---	10
11	---			---	-	--	C	--	-	---			---	12
13	2000			DRILL PRESS	3	20	A	20	3	SANDER			2000	14
15	---			---	-	--	B	--	-	---			---	16
17	---			---	-	--	C	--	-	---			---	18
19	2000			GRINDER	3	20	A	20	3	BAND SAW			2000	20
21	---			---	-	--	B	--	-	---			---	22
23	---			---	-	--	C	--	-	---			---	24
25	2300			TABLE SAW	2	20	A	20	2	JOINTER			2300	26
27	---			---	-	--	B	--	-	--			---	28
29	5400			RADIAL ARM SAW	2	40	C	20	2	TABLE SAW			2400	30
31	---			---	-	--	A	--	-	---			---	32
33				SPACE			B			SPACE				34
35				SPACE			C			SPACE				36
37				SPACE			A			SPACE				38
39				SPACE			B			SPACE				40
41				SPACE			C			SPACE				42

120/240V, 3Ø, 3W
100A M.L.O.
SURFACE MOUNTED

PANEL H

CIR. NO.	LOAD V.A.	LTS.	REC.	LOAD DESCRIPTION	P	AMP SIZE	PHASE	AMP SIZE	P	LOAD DESCRIPTION	REC.	LTS.	LOAD V.A.	CIR. NO.
1	1500			FCU-7	3	15	A	20	3	WELDING HOOD FAN (EF-7)			2400	2
3	---			---	-	--	B	--	-	---			---	4
5	---			---	-	--	C	--	-	---			---	6
7	1500			FCU-8	3	15	A	15	3	FCU-7			1500	8
9	---			---	-	--	B	--	-	---			---	10
11	---			---	-	--	C	--	-	---			---	12
13	3400			FCU-1, FCU-2	3	20	A	20	3	PUMP P1			2400	14
15	---			---	-	--	B	--	-	---			---	16
17	---			---	-	--	C	--	-	---			---	18
19				SPARE	3	20	A	50	3	DUST COLLECTOR			11700	*20
21	---			---	-	--	B	--	-	---			---	22
23	---			---	-	--	C	--	-	---			---	24
25				SPACE			A			SPACE				26
27				SPACE			B			SPACE				28
29				SPACE			C			SPACE				30

*ALTERNATE BID M2- SPARE UNDER BASE BID.

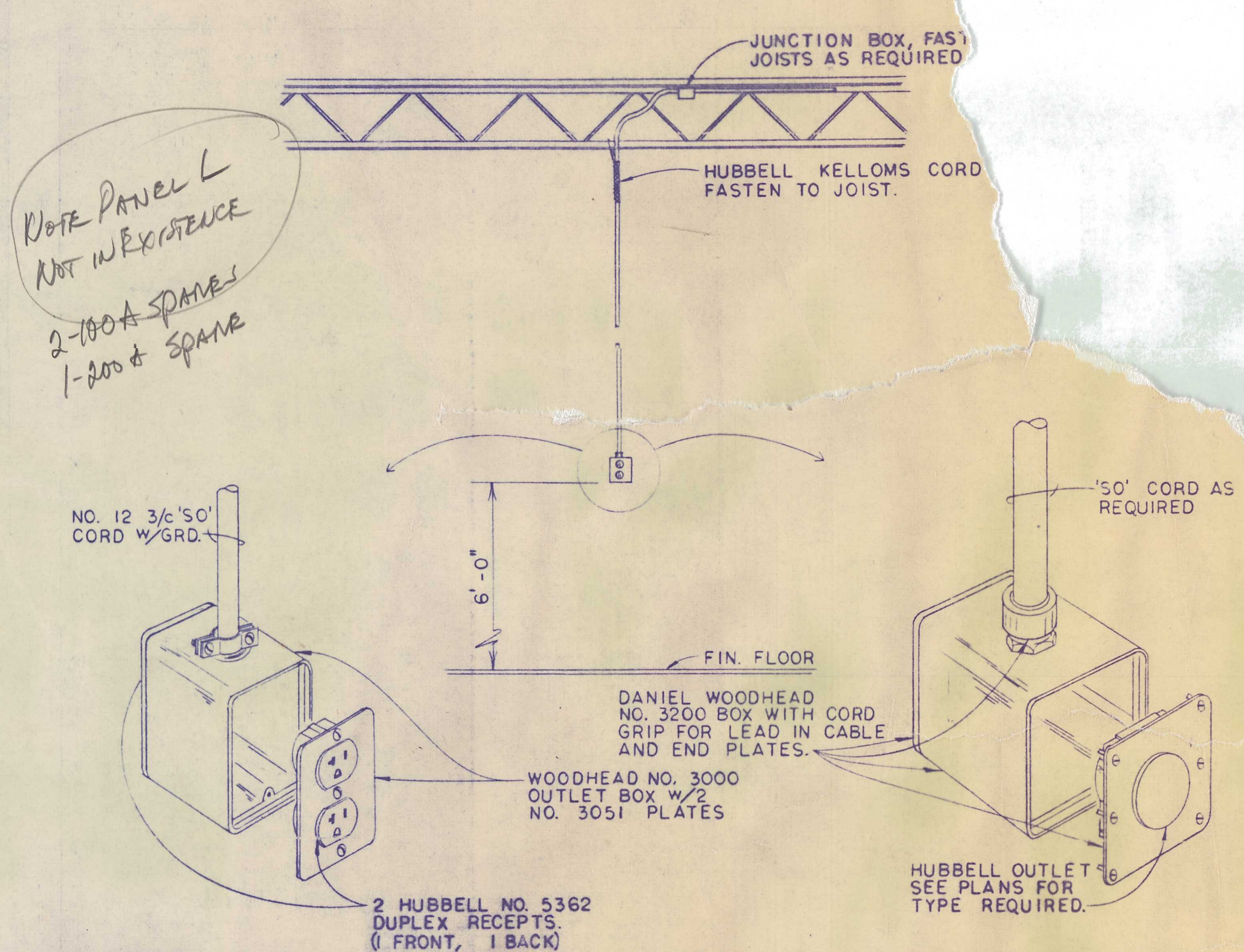


POWER RISER DIAGRAM
NO SCALE

MAIN SWITCHBOARD SB SCHEDULE
120/240 VOLT, 3 PHASE, 4 WIRE 600 AMPS MAIN FUSED SW
600 AMP BUS, FULL NEUTRAL SURFACE MOUNTING

	CKT NO.	SWITCH RATING	FUSE RATING	LOAD	EMD KVA	WIRE SIZE / CONDUIT SIZE
✓	M-1	600/3	(?) 500	BUILDING MAIN	195	
✓	1	100/3	100	PANEL H	13.0	
✓	2	200/2	~~200~~	~~PANEL L~~ - Spare	~~34.0~~	
✓	3	200/2	200	PANEL S	44.0	
✓	4	400/3	225	PANEL S1	76.0	
✓	5	200/3	125	PANEL S2	28.0	
✓	6	100/3		SPARE		
✓	7	200/3		SPARE		

Note Panel L Not in Existence
2-100A Spares
1-200A Spare



SHOP HANGING RECEPTACLE DETAIL
NO SCALE

ELECTRICAL SYMBOLS

- INCANDESCENT CEILING OUTLET, LETTER INDICATES TYPE
- FLUORESCENT CEILING OUTLET
- BRACKET OUTLET
- EXIT OUTLET, FIX. TYPE 'X'
- DUPLEX CONVENIENCE OUTLET
- APT. RECEPTACLE ON APPLIANCE CIRCUIT
- DUPLEX OUTLET - TOP HALF SWITCHED
- RANGE RECEPTACLE
- COMBINATION NITE-LITE (SIERRA 'PANELITE') AND DUPLEX OUTLET IN TWO-GANG BOX. PLATE TO BE SIERRA #P-135-8. PROVIDE 7 WATT CLEAR LAMP FOR PANELITE.
- GROUND FAULT DUPLEX RECEPT. SLATER GFIR-15 WITH 3703 (EXTERIOR) OR M-26 (INDOOR) PLATES
- SPECIAL RECEPTACLE, SEE SCHEDULE
- FLUSH FLOOR OUTLET - POWER
- FLUSH FLOOR OUTLET - LOW VOLTAGE
- MULTI-OUTLET ASSEMBLY
- TELEPHONE OUTLET
- FLOOR MICROPHONE OUTLET
- MICROPHONE JACK WALL MOUNTED
- CEILING SPEAKER
- WALL SPEAKER
- CLOCK HANGER OUTLET
- CLOCK, WALL MOUNTED
- S_a SINGLE POLE SWITCH, LETTER INDICATES SWITCH LEG, 'K' INDICATES KEY TYPE, 'P' INDICATES PILOT
- S_2 DOUBLE POLE SWITCH
- S_3 THREE-WAY SWITCH
- S_4 FOUR-WAY SWITCH
- S_D DIMMER SWITCH
- S_M MOMENTARY CONTACT SWITCH
- S_R REMOTE DIMMER CONTROL
- S_{TS} TIMER SWITCH (MARKTIME #90005)
- S_T FRACTION H.P. MOTOR THERMAL ELEMENT
- LIGHTING PANEL
- POWER PANEL
- CABINET, TYPE INDICATED
- TELEPHONE CABINET
- MOTOR CONTROLLER, LIGHTING CONTACTOR
- SAFETY SWITCH
- COMBINATION MOTOR STARTER & SAFETY SWITCH
- FUSESTAT
- JUNCTION BOX ABOVE CEILING OR AT HEIGHT INDICATED
- PUSH-BUTTON STATION, 'P' INDICATES PILOT
- OVERHEAD CONDUIT, CROSS LINES INDICATE NO. OF CONDUCTORS
- CONDUIT IN OR UNDER FLOOR SLAB, DITTO FOR CROSS LINES
- CLOCK SYSTEM RACEWAY
- EMERGENCY LIGHTING CIRCUIT
- SOUND SYSTEM RACEWAY
- TELEPHONE CONDUIT
- CONDUIT UP
- CONDUIT DOWN
- CONDUIT SEAL
- FIRE ALARM COMBINATION HEAT DETECTOR
- FIXED TEMP. HEAT DETECTOR
- FIRE ALARM VISUAL SIGNAL
- FIRE ALARM MANUAL STATION
- FIRE ALARM BELL
- FIRE ALARM HORN
- SMOKE DETECTOR - IONIZATION TYPE
- FAN SHUT-DOWN RELAY
- MAGNETIC DOOR HOLDER - WALL MOUNTED
- MAGNETIC DOOR HOLDER - FLOOR MOUNTED
- TALK-BACK SWITCH
- CLASSROOM CLOCK AND SPEAKER
- TELEVISION ANTENNA OUTLET
- TIME CLOCK
- SOUND SYSTEM VOLUME CONTROL
- DOOR BELL PUSHBUTTON
- MOTOR
- APT. FEEDER RISER MARK
- 30/3/10/3R RATED AMPACITY/NO. POLES/FUSING REQ'D/NEMA NO.
- BB BASEBOARD HEATER
- EF EXHAUST FAN
- EX EXPLOSION-PROOF
- NF NON-FUSED
- UH UNIT HEATER
- WH WALL INSERT HEATER
- WP WEATHER-PROOF
- SPLIT-WIRED RECEPTACLE
- L_V LOW VOLTAGE SWITCH
- L_{VR} LOW VOLTAGE RELAY
- VP VAPOR-PROOF
- PHOTO-CELL - FLUSH MOUNT STONCO #P-150 SERIES
- S_V VARIABLE SPEED SWITCH (FUR. BY M.C., E.C. TO INSTALL)
- HOME RUN TO PANEL

120/240V, 1Ø, 3W
200A M.L.O.
SURFACE MOUNTED

PANEL L

CIR. NO.	LOAD V.A.	LTS.	REC.	LOAD DESCRIPTION	P	AMP SIZE	PHASE	AMP SIZE	P	LOAD DESCRIPTION	REC.	LTS.	LOAD V.A.	CIR. NO.
1	1200		X	RM 129	1	20	A	20	2	WHIRLPOOL			2000	2
3	1200		X	RM 109, 110	1	20	B	--	-	---			---	4
5	1000		X	RM 118, 122	1	20	A	20	2	WHIRLPOOL			2000	6
7	2100	X		RM 129, EXTERIOR	2	20	B	--	-	---			---	8
9	---			---	-	--	A	20	1	RM 109, 110, [illegible]		X	1650	10
11	3600	X		RM 129	2	20	B	20	1	EF-1			1200	12
13	---			---	-	--	A	20	1	EF-2			1200	14
15	1000		X	LOCKER	1	20	B	20	1	FCU-5, FCU-6			1000	16
17	1200		X	OFFICE, LOCKER	1	20	A	20	1	(3)FCU-5			800	18
19	1000		X	OFFICE	1	20	B	20	1	FCU-4, FCU-5			600	20
21	1500		X	OFFICE, LOCKER	1	20	A	20	1	(2) FCU-5			600	22
23	1300		X	TRAINING LOCKER	1	20	B	20	1	EF-4			600	24
25	1000	X		RM 125, 126, 127	1	20	A	20	1	RM 111, 122		X	1350	26
27	1450	X		RM 115	1	20	B	20	1	RM 118, 119, [illegible]		X	1500	28
29	1000		X	LOCKER	1	20	A	20	1	RM 123, 124		X	1500	30
31	1600			BOILER BURNER	1	20	B	20	1	RECIRC. PUMP			1000	32
33	1600			WTR HTR BURNER	1	20	A	20	1	WTR SOFTENER			1200	34
35				SPARE	1	20	B	20	1	FCU-6			800	36
37				SPARE	1	20	A	20	1	SPARE				38
39				SPARE	1	20	B	20	1	SPARE				40
41				SPARE	1	20	A	20	1	SPARE				42

POWER RISER DIAGRAM, DETAILS & SCHED

E-3
SHEET

A & D TECHNICAL SUPPLY COMPANY, INC.

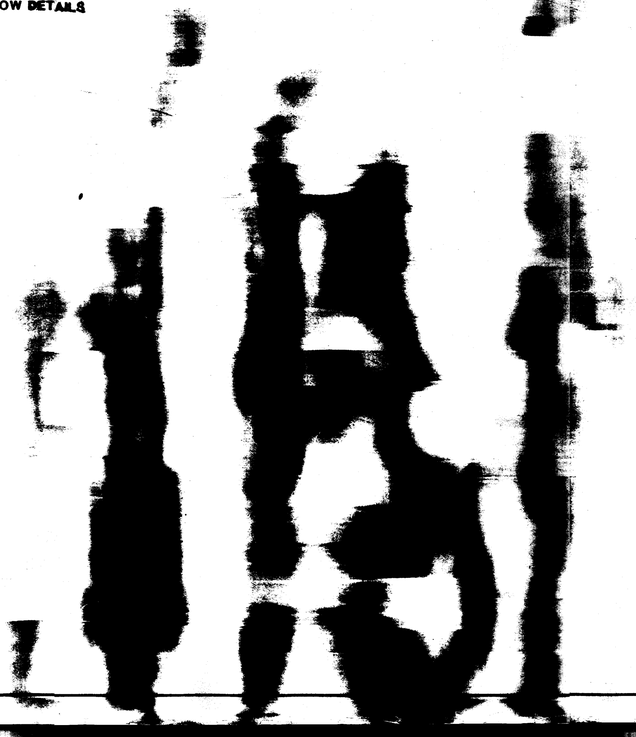
CAMBRIDGE PUBLIC SCHOOLS

PROPOSED INTERIOR RENOVATION

CAMBRIDGE, NEBRASKA

SHEET INDEX

SHEET No.	DESCRIPTION
1	FLOOR PLAN
2	FLOOR PLAN
3	FINISH SCHEDULE, DOOR SCHEDULE, DOOR AND WINDOW DETAILS
4	INTERIOR ELEVATIONS
5	NEW BLEACHER PLAN AND DETAILS
M-1	PLUMBING PLAN AND FIXTURE SCHEDULE
E-1	ELECTRICAL PLAN AND FIXTURE SCHEDULE



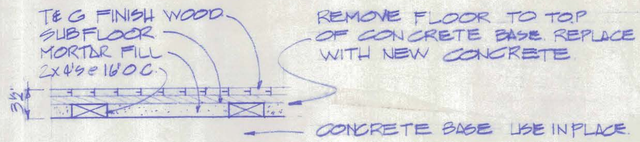
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REGISTERED PROFESSIONAL ENGINEER
LLOYD V. BENJAMIN
E-2504

REVISIONS

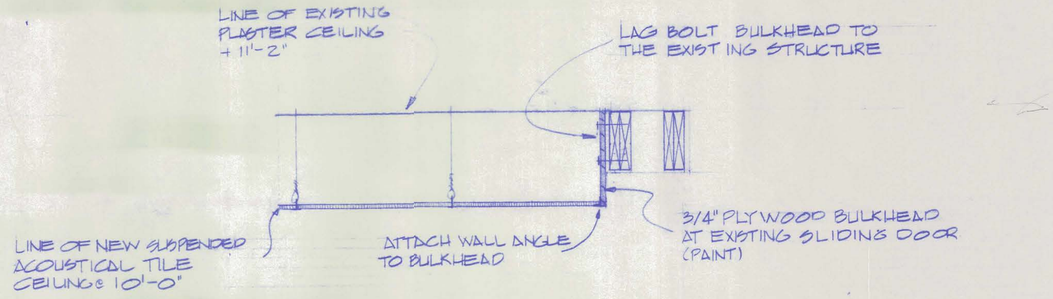
No.	DATE

DATE: FEB. 1987



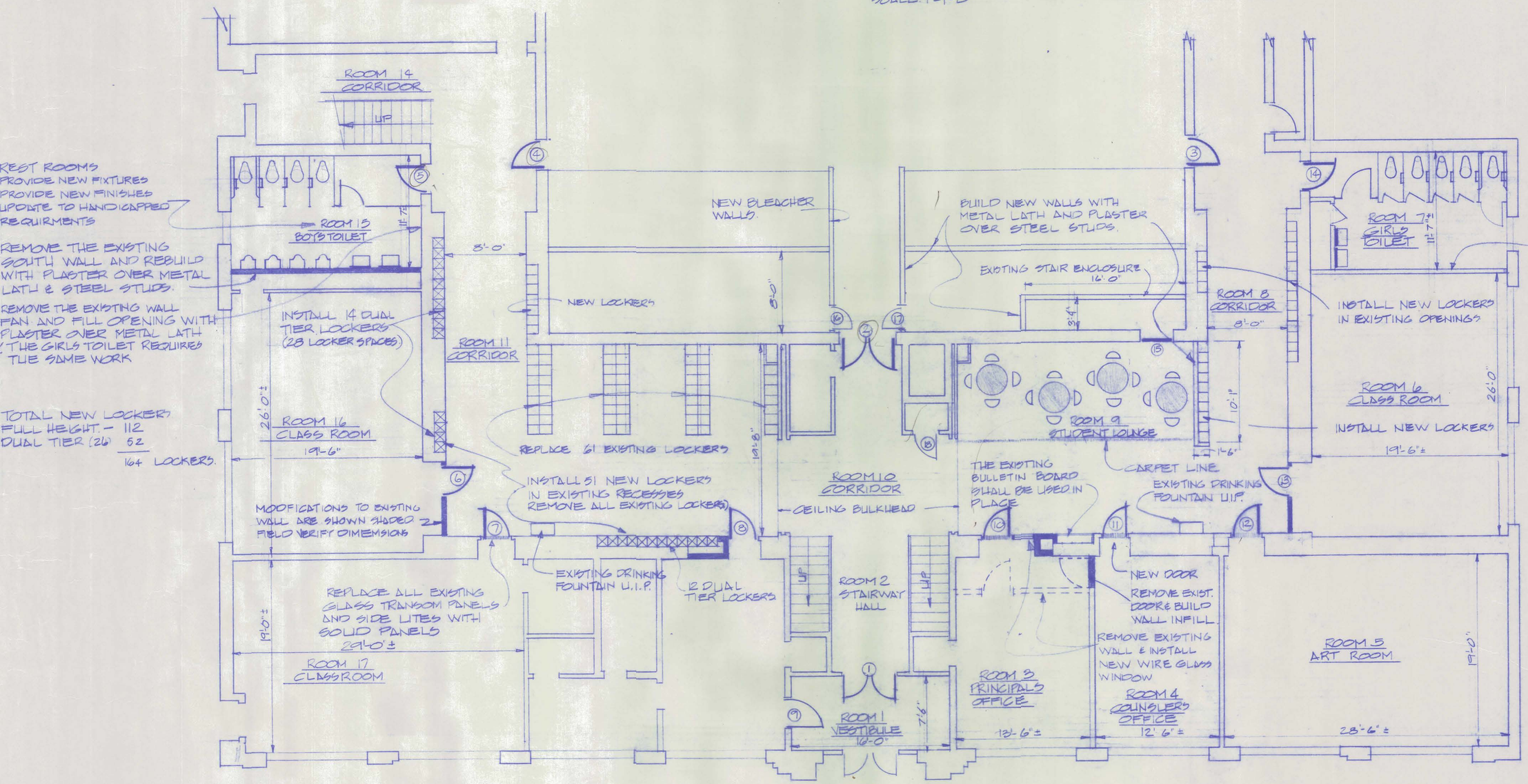
DETAIL OF EXISTING FLOOR

SCALE: 1½" = 1'-0"



DETAIL OF NEW SUSPENDED CEILING

SCALE: 1" = 1'-0"



MAIN LEVEL FLOOR PLAN

SCALE: 3/16" = 1'-0"

NOTE
FOR BIDDING PURPOSES THE DOORS SHALL BE A PART OF THEIR RESPECTIVE ROOMS.

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

1

DATE: FEB, 1987

STANDARDBLUE, OMAHA 68028

SHALL
STAIRS
OF THE STAGE

ALVAGE WOOD FROM
UDITORIUM FLOOR TO
SE AS FINISH FOR RISERS & TREADS

PROVIDE NEW
CURVED WOOD TRIM
TO MATCH EXISTING
CONSTRUCTION

WAY

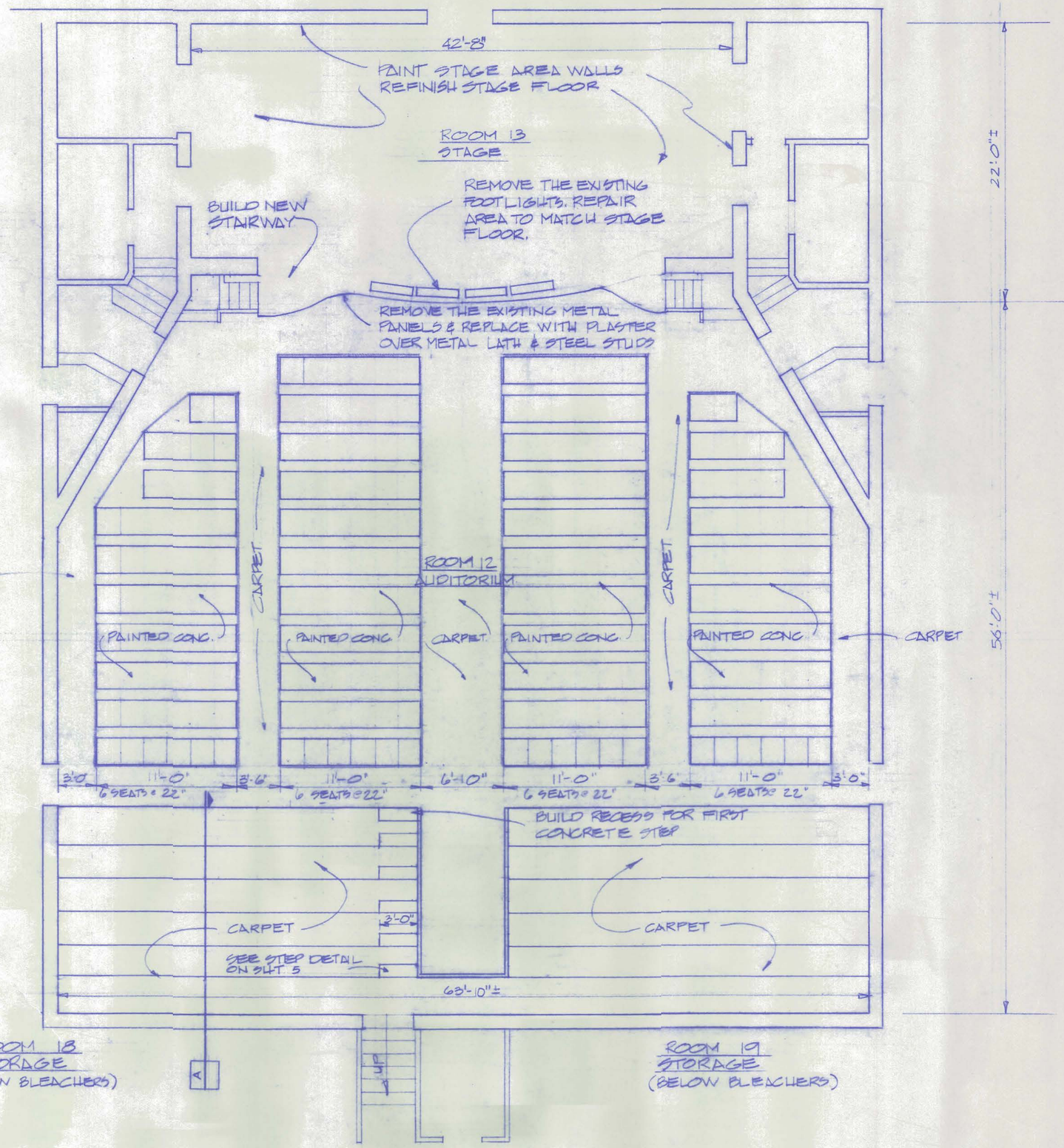
TOP OF EXISTING
STAGE

BUILD UP NEW CURVED
STAGE FRONT W/ PLASTER
OVER METAL LATH AND
STEEL STUDS

STAIRWAY

CARPET

OORING, SUB FLOORING
H FINISH FLOOR ELEVATION
ED BY THE OWNER
THE FLOOR UNDER
ED



AUDITORIUM FLOOR PLAN

SCALE: 3/16" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

2

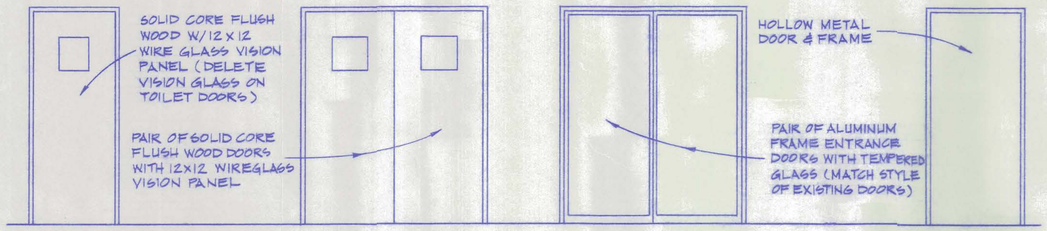
DATE: FEB. 1987

ROOM FINISH SCHEDULE

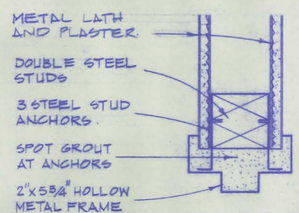
ROOM NUMBER	ROOM NAME	FLOOR FINISH: BASE	FLOOR FINISH: FLOOR	WALL FINISH: NORTH	WALL FINISH: SOUTH	WALL FINISH: EAST	WALL FINISH: WEST	CEILING: MAT.	CEILING: HEIGHT	NOTES
		RETAIN EXISTING TERRAZZO RUBBER CARPET BASE RUBBER COVE BASE REFINISH THE EXISTING BASE	RETAIN EXISTING TERRAZZO NEW VINYL TILE #CONCRETE NEW CARPET #CONCRETE EXPOSED & PAINTED CONCRETE REFINISH THE EXISTING WOOD	PAINT EXISTING PORTLAND CEMENT PLASTER	PAINT EXISTING PORTLAND CEMENT PLASTER	PAINT EXISTING PORTLAND CEMENT PLASTER	PAINT EXISTING PORTLAND CEMENT PLASTER	NEW SUSPENDED ACOUSTICAL PAINT EXISTING PORTLAND CEMENT PLASTER		EXISTING WALL FINISHES ARE SAND FINISHED PLASTER ● DENOTES PAINTED SURFACE. ALL EXISTING WOOD FLOORS SHALL BE REMOVED PRIOR TO PLACEMENT OF NEW FLOOR SYSTEMS THE ENTIRE AREA SHALL BE TREATED FOR TERMITES. THE TERMITE WORK IS NOT IN THE CONTRACT. THE CONTRACTOR SHALL PROVIDE TO THE OWNER A SCHEDULE OF FLOOR REMOVAL SO THE TERMITE TREATMENT CAN BE PERFORMED BY THE OWNER
1	VESTIBULE	○		●	●	●	●	●		
2	STAIRWAY HALL	○	○	●	●	●	●	●		
3	PRINCIPALS OFFICE	○	○	●	●	●	●	●		
4	COUNSELOR'S OFFICE	○	○	●	●	●	●	●		
5	ART ROOM	○	○	●	●	●	●	●		
6	CLASSROOM	○	○	●	●	●	●	●		
7	GIRLS TOILET	○	○	●	●	●	●	○		
8	CORRIDOR	○	○	●	●	●	●	○		SEE THE ELECTRICAL PLAN FOR SUSPENDED CEILING LIMITS
9	STUDENT LOUNGE	○	○	●	●	●	●	○		
10	CORRIDOR	○	○	●	●	●	●	●		
11	CORRIDOR	○	○	●	●	●	●	○		SEE THE ELECTRICAL PLAN FOR SUSPENDED CEILING LIMITS
12	AUDITORIUM	○	○ ○	●	●	●	●	●		SEE THE FLOOR PLAN FOR CARPET LIMITS
13	STAGE	○	○	●	●	●	●			
14	CORRIDOR	○	○	●	●	●	●	●		
15	BOY'S TOILET	○	○	●	●	●	●	○		
16	CLASSROOM			●	●	●	●	●		
17	CLASSROOM		○	●	●	●	●	●		
18	STORAGE		○	●	●	●	●	●		
19	STORAGE		○	●	●	●	●	●		

DOOR SCHEDULE

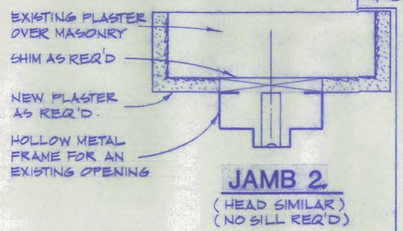
DOOR MARK	Nº OF DOORS	DETAIL NUMBER	DOORS: TYPE	DOORS: WIDTH	DOORS: HEIGHT	DOORS: THICK	FRAMES: TYPE	FRAMES: SIZE	FIRE RATING	NOTES
1	2	3	C	2'-10"	7'-0"	2"	ALUM	2" x 4"		
2	2	2	B	2'-8"	7'-0"	1 3/4"	H.M.	2", 5 3/4"	20 MIN	C LABEL
3	1	2	A	3'-0"	7'-0"	1 3/4"				
4	1	2	A	3'-0"	7'-0"	1 3/4"				
5	1	2	A	2'-8"	7'-0"	1 3/4"				
6	1	1	A	3'-0"	7'-0"	1 3/4"				
7	1	1	A	3'-0"	7'-0"	1 3/4"				
8	1	1	A	3'-0"	7'-0"	1 3/4"				
9	1	1	A	3'-0"	7'-0"	1 3/4"				
10	1	1	A	3'-0"	7'-0"	1 3/4"				SEE SHT 4 FOR ELEVATION
11	1	1	A	3'-0"	7'-0"	1 3/4"				
12	1	1	A	3'-0"	7'-0"	1 3/4"				
13	1	2	A	3'-0"	7'-0"	1 3/4"				
14	1	2	A	2'-8"	7'-0"	1 3/4"	↓	↓	20 MIN	C LABEL
15	1	2	D	3'-0"	7'-0"	1 3/4"	H.M.		90 MIN	B LABEL
16	1	1	D	2'-4"	6'-8"	1 3/4"	H.M.		90 MIN	B LABEL
17	1	1	D	2'-4"	6'-8"	1 3/4"	H.M.	↓	90 MIN	B LABEL
18	1	2	D	2'-6"	7'-0"	1 3/4"	H.M.	2", 5 3/4"	90 MIN.	B LABEL



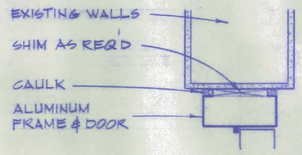
DOOR TYPES
NO SCALE



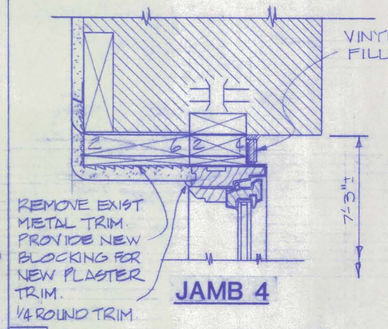
JAMB 1
(HEAD SIMILAR)
(NO SILL REQ'D)



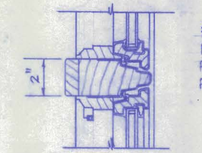
JAMB 2
(HEAD SIMILAR)
(NO SILL REQ'D)



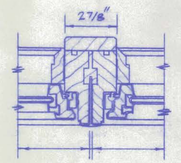
JAMB 3
(HEAD SIMILAR)
(NO SILL REQ'D)



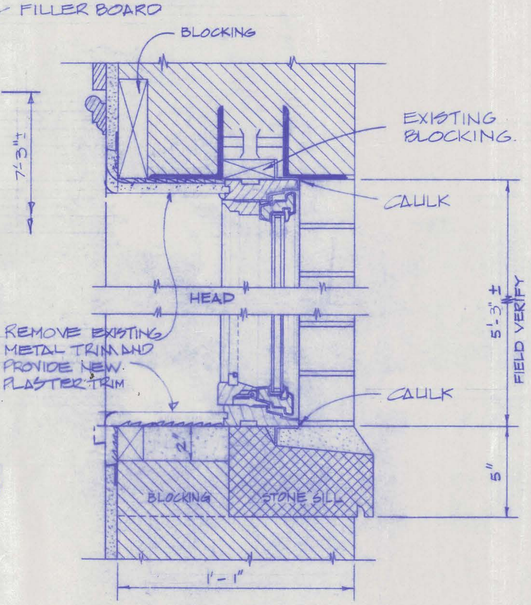
JAMB 4



TRANSOM BAR



AWNING SUPPORT MULLION



DETAIL OF METAL SASH
NO SCALE

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

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

3

DATE: FEB, 1987

STANDARDBLUE, OMAHA 68028

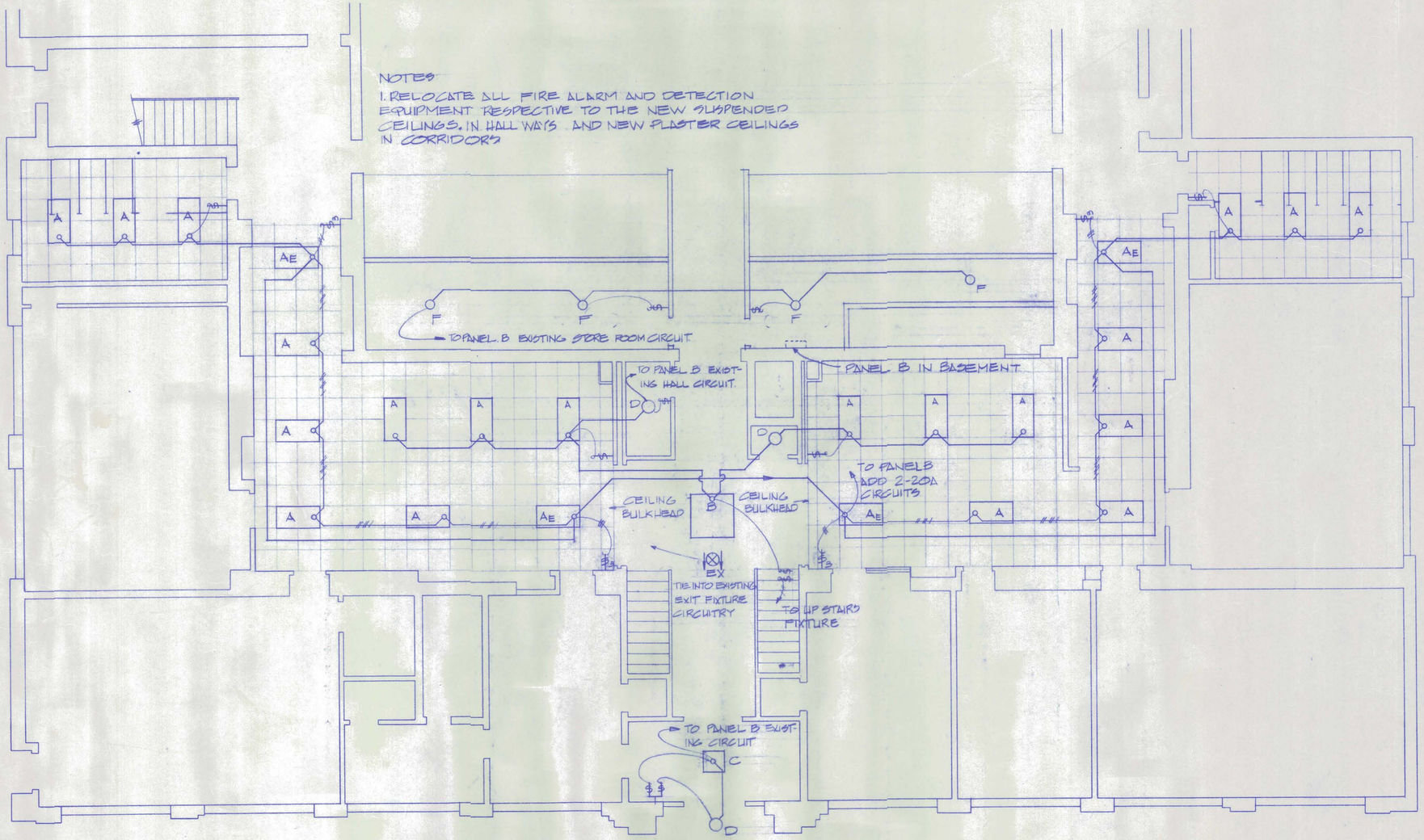
ELECTRICAL FIXTURE SCHEDULE

MARK	LAMPS Nº	LAMPS TYPE	DESCRIPTION	MOUNTING	MANUFACTURER AND CATALOG Nº
A	4	F40T12WW/RS	FLUORESCENT FIXTURE	CEILING RECESSED	LITHONIA 2GT440A12
AE	4	F40T12WW/RS	FLUORESCENT FIXTURE	CEILING RECESSED	LITHONIA 2GT440A12EL
B	8	F40T12WW/RS	FLUORESCENT FIXTURE	CEILING SURFACE	LITHONIA MP4484
C	2	F40T12U6WW	FLUORESCENT FIXTURE	CEILING SURFACE	LITHONIA MP2224
D	NA	NA	EXISTING FIXTURE	CEILING	USE IN PLACE
EX	2	20T6½	EXIT FIXTURE	CEILING PENDANT	LITHONIA ES2R
F	1	100W A19	KEYLESS RECEPTACLE	CEILING SURFACE	LEVITON 9875

OUTLET FOR POWER SUPPLY TO CLERESTORY WINDOW OPERATORS (TYPICAL OF TWO)

TO STAGE PANEL ADD 1-20 AMP BRKR 2#12 ½" CONDUIT IF CONCEALED PLUGMOLD IF EXPOSED

NOTES:
1. RELOCATE ALL FIRE ALARM AND DETECTION EQUIPMENT RESPECTIVE TO THE NEW SUSPENDED CEILINGS IN HALL WAYS AND NEW PLASTER CEILINGS IN CORRIDORS



ELECTRICAL PLAN
SCALE: 3/16"=1'—0"

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
No. | DATE

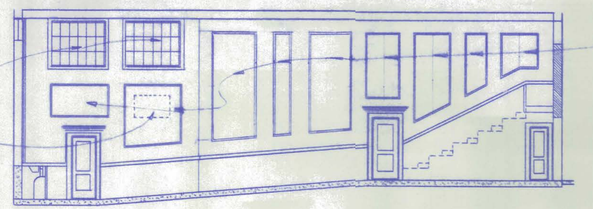
E-1

DATE: FEB. 1987

REMOVE THE EXISTING STEEL SASH WINDOWS & REPLACE W/ ANDERSEN AN351-23 AWNING WINDOW

REMOVE THE EXISTING AIR CIRCULATION GRILLE. FILL IN OPENING WITH METAL LATH AND PLASTER OVER STEEL STUDS.

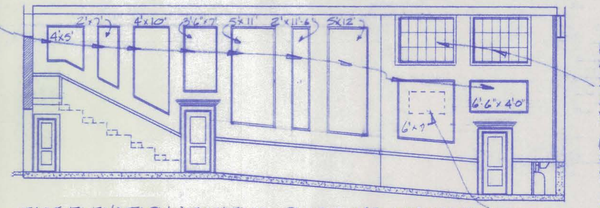
WITHIN EXISTING OUTLINED AREAS PAINT THE WALLS TO CONTRAST WITH THE MAIN WALL COLOR.



EXISTING EAST ELEVATION

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

PAINT EXISTING OUT LINED AREAS.



EAST ELEVATION ACOUSTICAL PANELS ARE IDENTICAL.

REMOVE THE EXISTING STEEL SASH WINDOWS AND REPLACE THEM WITH ANDERSEN AN351-23 AWNING WINDOWS

(POWER OPERATORS SHALL BE CONNECTED TO ELECTRICAL PANEL ON THE STAGE)

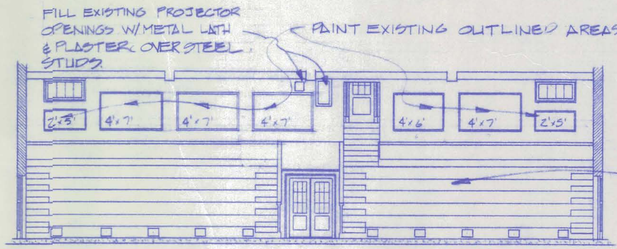
REMOVE THE EXISTING AIR GRILLE. FILL IN OPENING WITH METAL LATH & PLASTER OVER STEEL STUDS.

EXISTING WEST ELEVATION

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

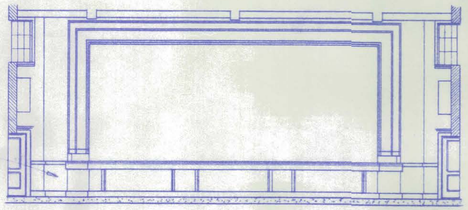
FILL EXISTING PROJECTOR OPENINGS W/ METAL LATH & PLASTER OVER STEEL STUDS.

PAINT EXISTING OUTLINED AREAS.



REMOVE THE EXISTING WOOD SEATING STRUCTURE AND REPLACE AS DETAILED ON SHEET 5-1

CONSTRUCT NEW STAIRWAY ON WEST END OF STAGE MATCH THE EXISTING STAIRWAY PER SHT 2



EXISTING NORTH ELEVATION

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

EXISTING SOUTH ELEVATION

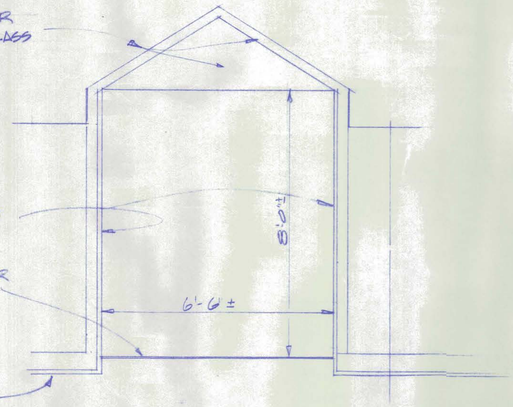
SCALE: 1/8"=1'-0"

INSPECT AND REPAIR EXTERIOR WIRE GLASS

REPAINT INTERIOR PLASTER SURFACES

INSPECT AND REPAIR INTERIOR GLASS

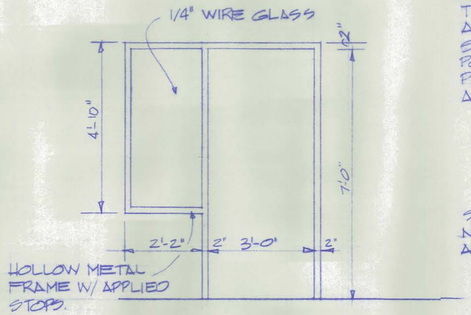
REPAINT AUDITORIUM CEILING



SECTION THRU EXISTING SKYLIGHT

NO SCALE:

THERE ARE 4 SKYLIGHTS
2@ 6'-6" x 17'-9"
2@ 6'-6" x 26'-8"

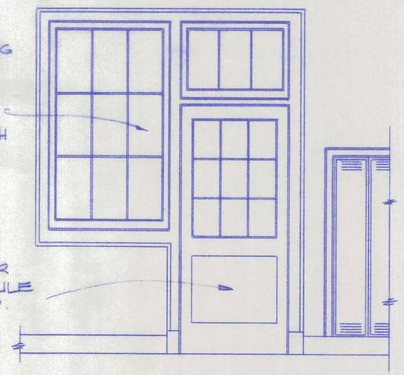


HOLLOW METAL FRAME W/ APPLIED STOPS.

ELEVATION OF DOOR # 10

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

REMOVE THE EXISTING TRANSOM, SIDE LIGHT AND DOOR. RECONSTRUCT WALL WITH PORTLAND CEMENT PLASTER METAL LATH AND STEEL STUDS



SEE SHEET A-3 FOR NEW DOOR SCHEDULE AND DOOR DETAILS.

ELEVATION OF EXISTING HALLWAY DOORS

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

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

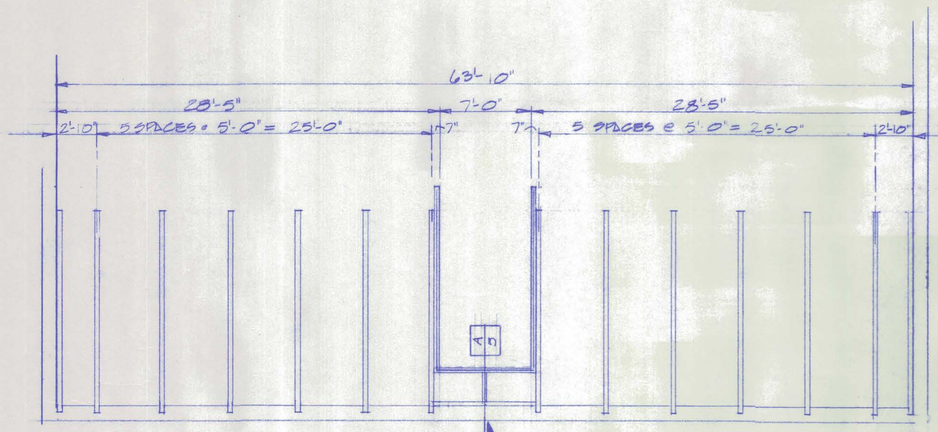
REVISIONS

NO.	DATE

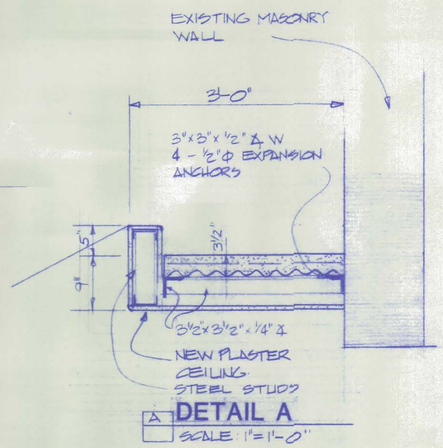
4

DATE: FEB, 1987

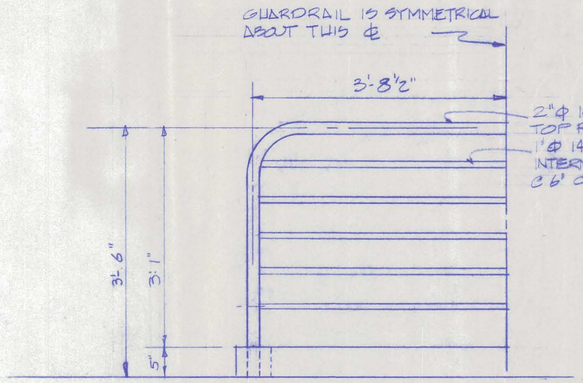
STANDARDBLUE, OMAHA 68028



PLAN OF BLEACHER SUBSTRUCTURE
SCALE: 3/16"=1'-0"

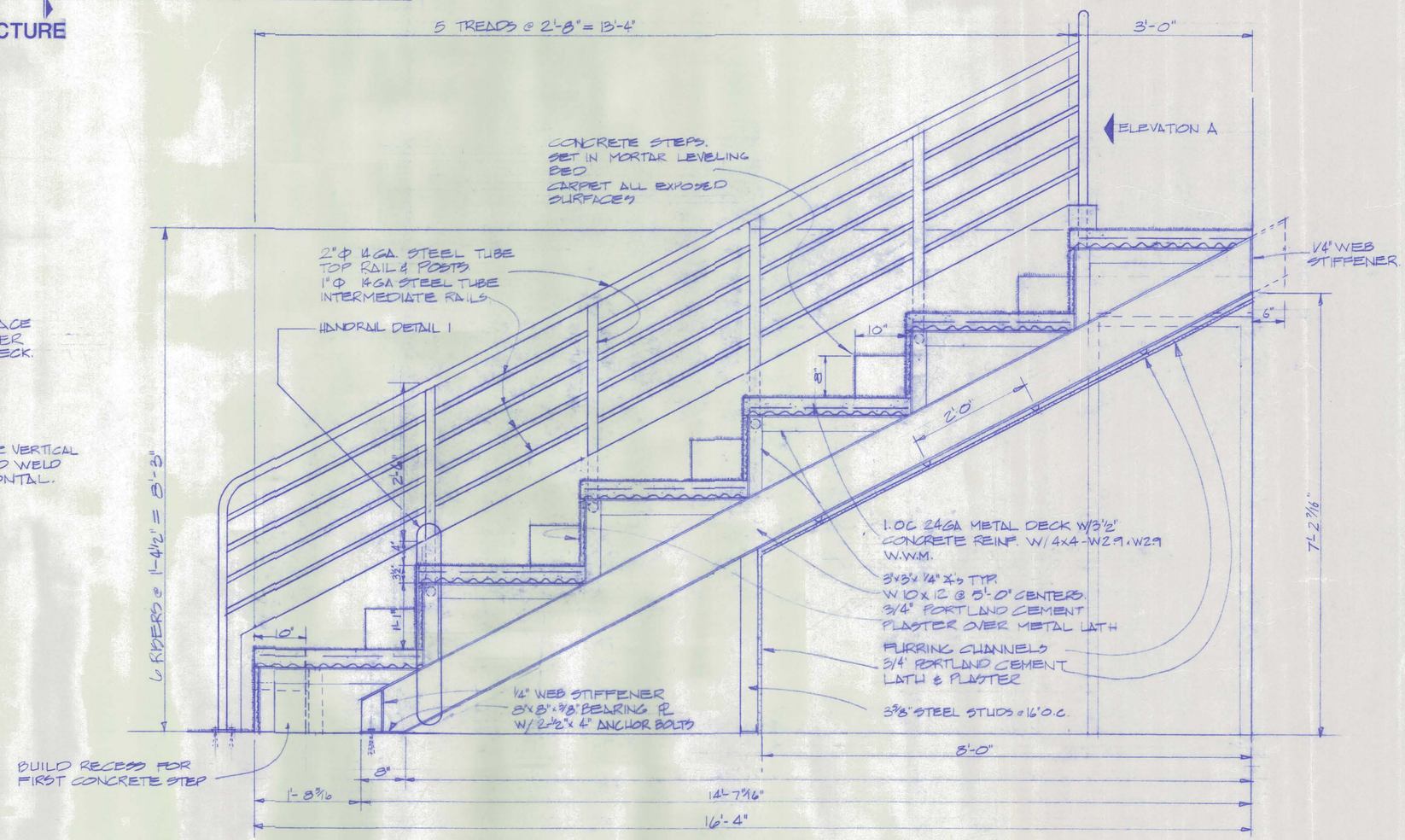


DETAIL A
SCALE: 1"=1'-0"



GUARDRAIL ELEVATION A
SCALE: 1"=1'-0"

HANDRAIL DETAIL 1
SCALE: 3"=1'-0"



TYPICAL BLEACHER SECTION
SCALE: 1"=1'-0"

CAMBRIDGE PUBLIC SCHOOLS
PROPOSED INTERIOR RENOVATION
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	DATE

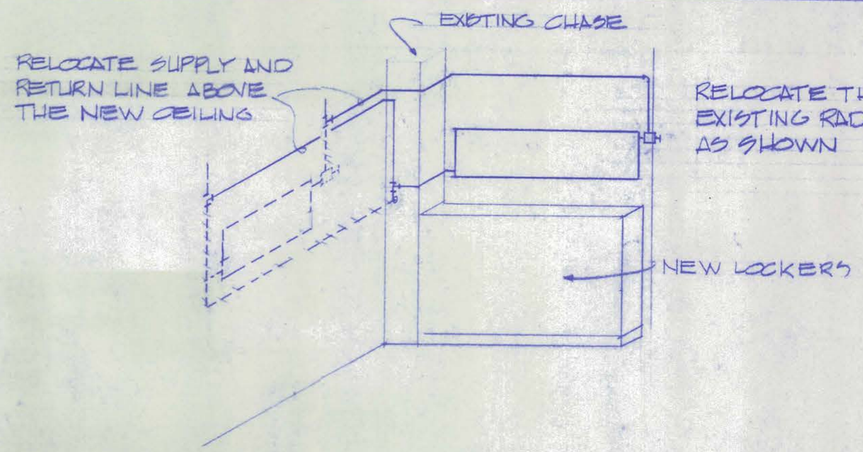
5

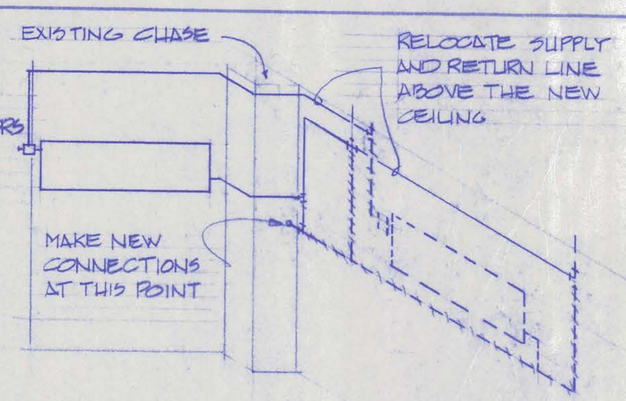
DATE: FEB, 1987

STANDARDLUE, OMAHA 68028

K-2050 WITH K-7436-T FAUCETS, K-9000 P TRAP
S SIZE 18"x20"
MOUNTING HEIGHT SHALL BE 34" TO THE RIM AND
SHALL BE INSULATED

TOILET WITH K-4670-C SEAT AND SLOAN 110-3 FLUSH VALVE
TOILET WITH K-4670-C SEAT AND SLOAN 110-3 FLUSH VALVE
K-4960-T URINAL WITH SLOAN 86 FLUSH VALVE
K-5007-T URINAL WITH SLOAN 186 FLUSH VALVE

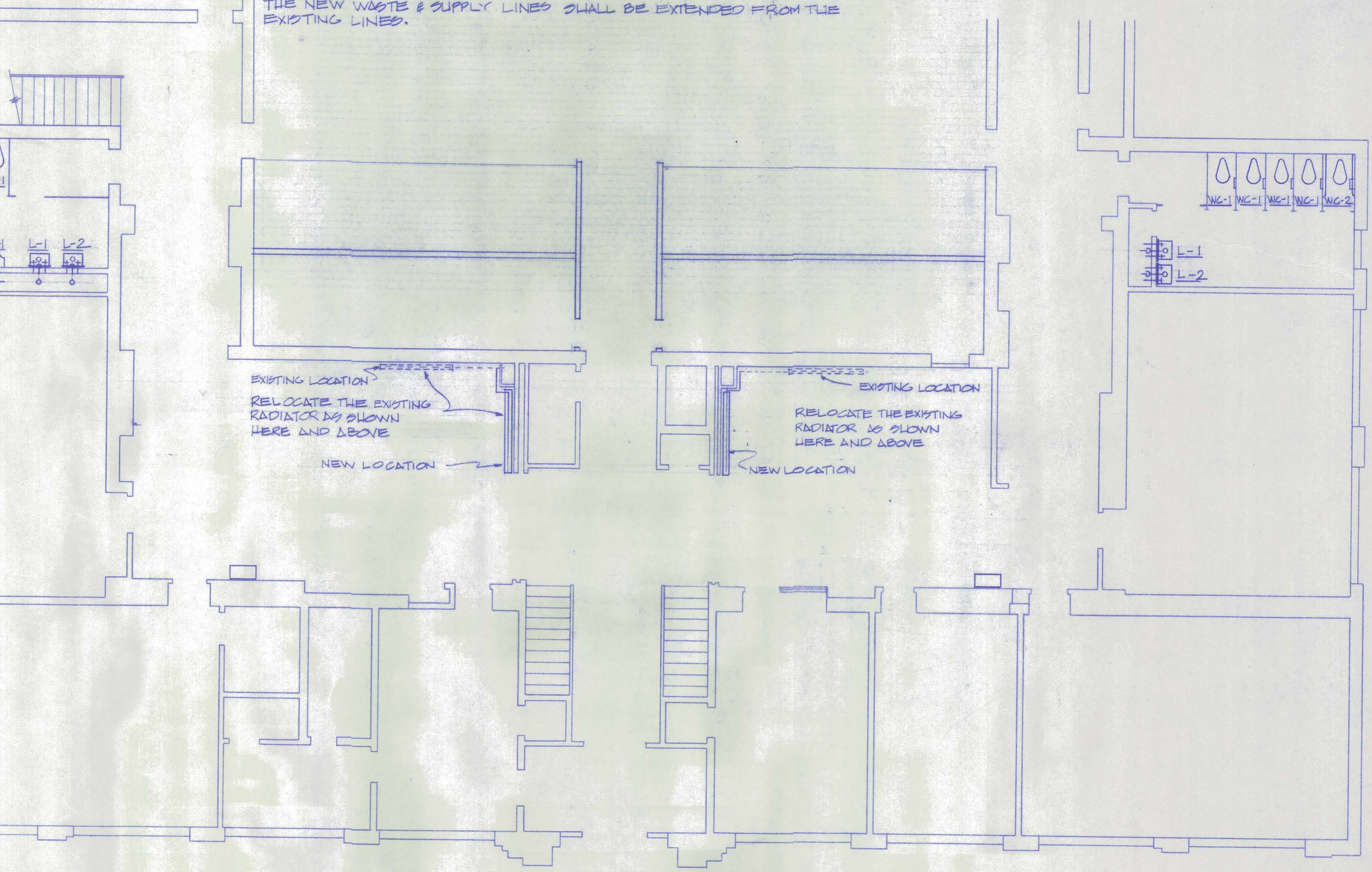




EXISTING RADIATOR MODIFICATION SCHEMATIC

NO SCALE

NOTES:
THE NEW WASTE & SUPPLY LINES SHALL BE EXTENDED FROM THE EXISTING LINES.



LAN

CAMBRIDGE PUBLIC SCHOOLS

PROPOSED ENERGY EFFICIENCY IMPROVEMENTS

CAMBRIDGE, NEBRASKA

SHEET INDEX

SHEET No.	DESCRIPTION
A-1	ELEMENTARY FLOOR PLAN ELECTRICAL, MECHANICAL AND GENERAL IMPROVEMENTS
A-2	SENIOR & JUNIOR HIGH FLOOR PLAN MECHANICAL AND GENERAL IMPROVEMENTS
A-3	SENIOR HIGH FLOOR PLAN MECHANICAL IMPROVEMENTS
A-4	BUILDING ELEVATIONS WINDOW LOCATIONS
A-5	BUILDING ELEVATIONS WINDOW LOCATIONS
A-6	BUILDING ELEVATIONS WINDOW LOCATIONS
A-7	BUILDING ELEVATIONS WINDOW LOCATIONS
A-8	WINDOW DETAILS AND SCHEDULE

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	DATE

DATE: JAN 1990

STANDARDBLUE, OMAHA

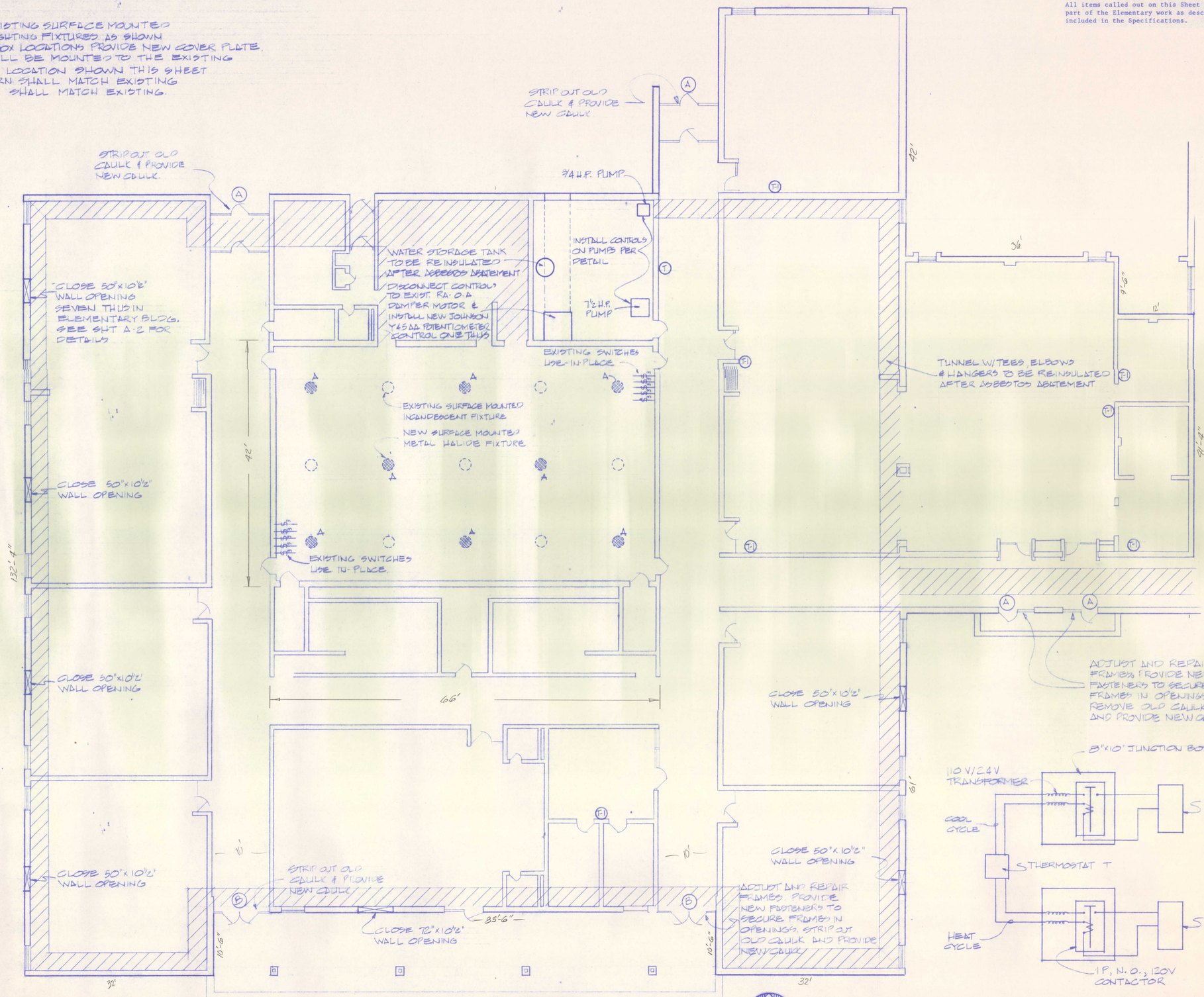
LIGHTING FIXTURE SCHEDULE

MARK	DESCRIPTION
A	LITHONIA - TXL 250M A20 120V LOW BAY METAL HALIDE FIXTURE

NOTES:
REMOVE ALL EXISTING SURFACE MOUNTED INCANDESCENT LIGHTING FIXTURES AS SHOWN AT UNUSED BACK BOX LOCATIONS PROVIDE NEW COVER PLATE.
NEW FIXTURE SHALL BE MOUNTED TO THE EXISTING BACK BOX AT THE LOCATION SHOWN THIS SHEET
SWITCHING PATTERN SHALL MATCH EXISTING
CIRCUIT ROUTING SHALL MATCH EXISTING.

NOTE:

All items called out on this Sheet shall be bid as a part of the Elementary work as described in the Proposal included in the Specifications.



ELEMENTARY SCHOOL FLOOR PLAN

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

NORTH

WIRING DIAGRAM
CIRCULATION PUMP CONTROLS

NO SCALE:

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

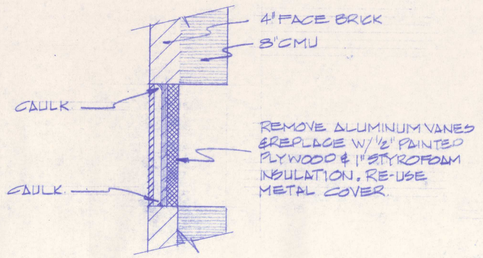
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

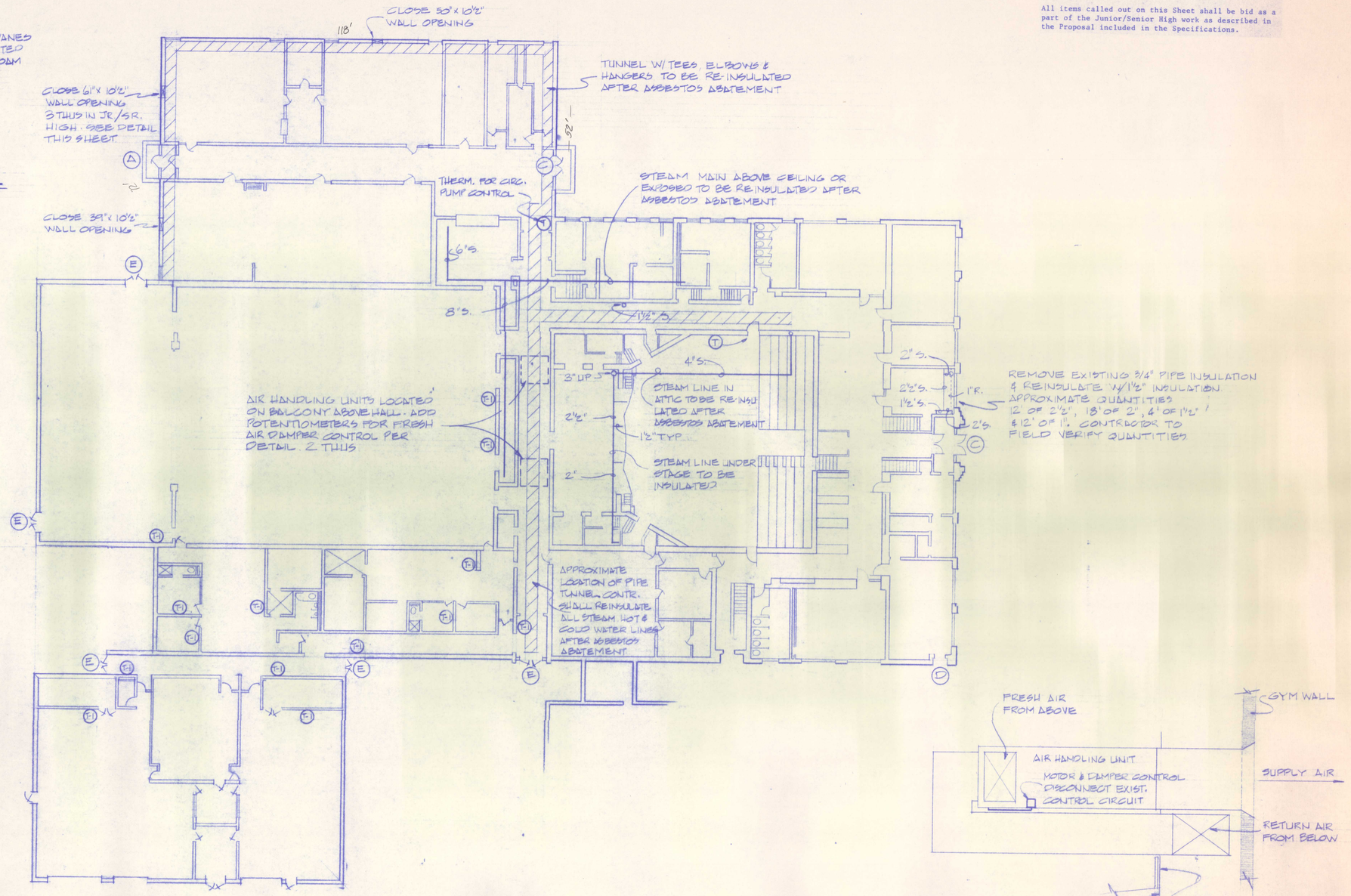
A-1

DATE:



WALL OPENING CLOSURE DETAIL

NO SCALE.



REMOVE EXISTING ¾" PIPE INSULATION & REINSULATE W/ 1½" INSULATION. APPROXIMATE QUANTITIES 12' OF 2½", 18' OF 2", 4' OF 1½" & 12' OF 1". CONTRACTOR TO FIELD VERIFY QUANTITIES

JUNIOR & SENIOR HIGH FLOOR PLAN

SCALE: 1/16"=1'-0"

NORTH

THERMOSTAT SCHEDULE

MARK	DESCRIPTION
T	Replace existing 24v thermostat with White Rogers Model 1F97-51 seven day Comfort Set II thermostat.
T-1	Replace existing 110v thermostat with above model thermostat and 110v/24v transformer. Locate transformer adjacent to heating units where feasible.
Note:	All thermostats shall include a lockable clear plastic cover.

NOTE:

All items called out on this Sheet shall be bid as a part of the Junior/Senior High work as described in the Proposal included in the Specifications.

FRESH AIR DAMPER CONTROL MODIFICATIONS
GYM AIR HANDLING UNITS

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

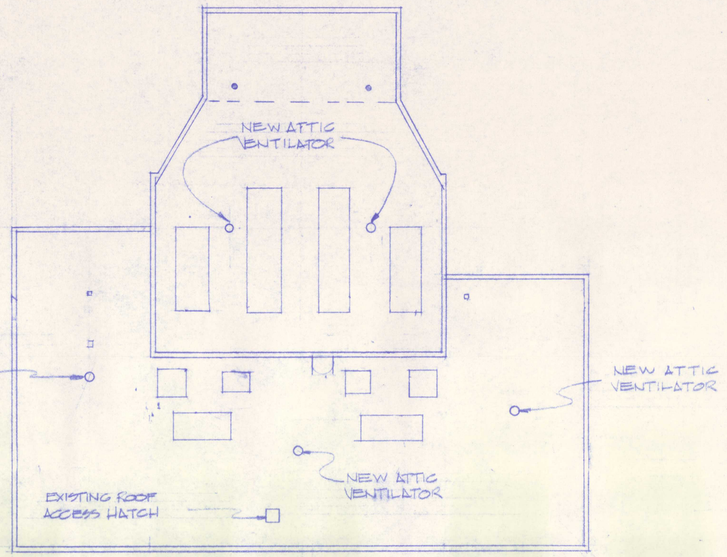
A-2

DATE:

STANDARDBLUE, OMAHA

NOTE:

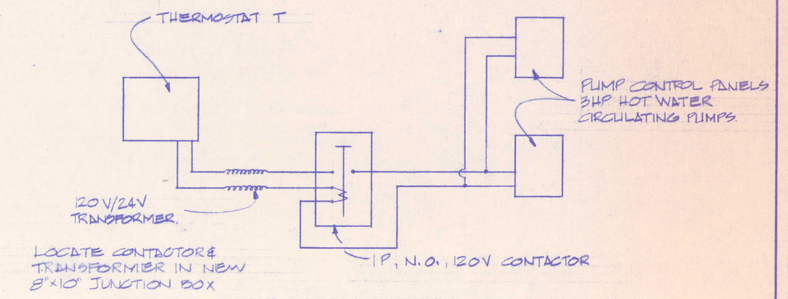
All items called out on this Sheet shall be bid as a part of the Junior/Senior High work as described in the Proposal included in the Specifications.



SENIOR HIGH ROOF PLAN

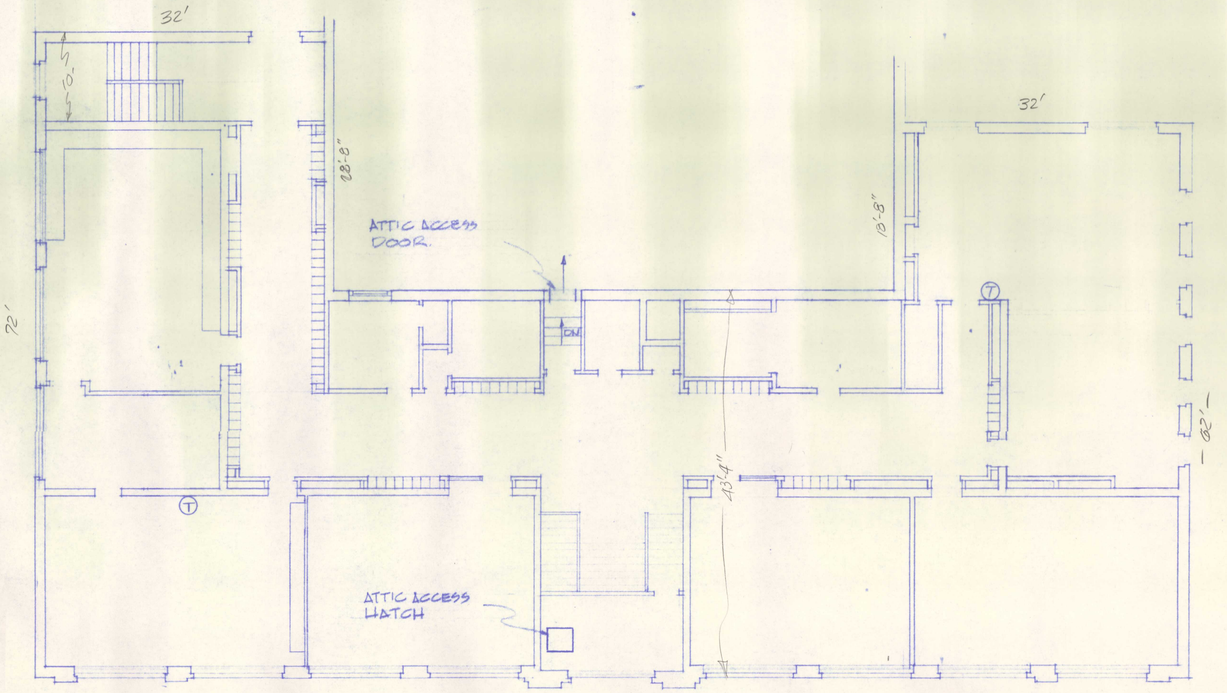
SCALE: 1/16"-1'-0"

NORTH



WIRING DIAGRAM
CIRCULATION PUMP CONTROLS

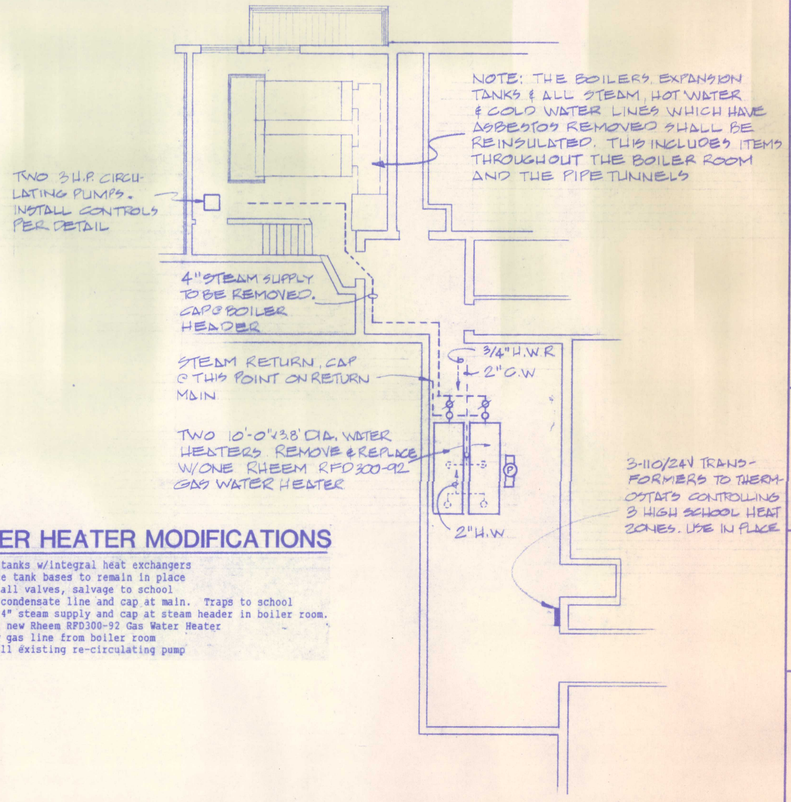
NO SCALE



SENIOR HIGH SECOND FLOOR PLAN

SCALE: 1/"-1'-0"

NORTH



WATER HEATER MODIFICATIONS

1. Remove tanks w/integral heat exchangers
2. Concrete tank bases to remain in place
3. Remove all valves, salvage to school
4. Remove condensate line and cap at main. Traps to school
5. Remove 4" steam supply and cap at steam header in boiler room.
6. Install new Rheem RFD300-92 Gas Water Heater
7. Run new gas line from boiler room
8. Reinstall existing re-circulating pump

SENIOR HIGH BOILER ROOM PLAN

SCALE 1/8"-1'-0"

NORTH

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

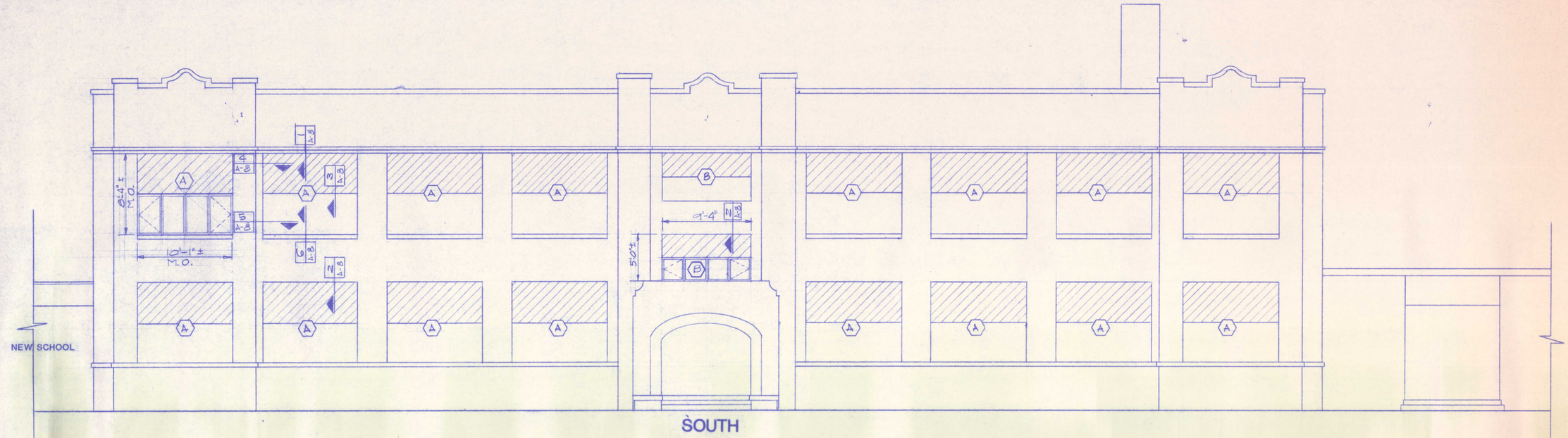
REVISIONS

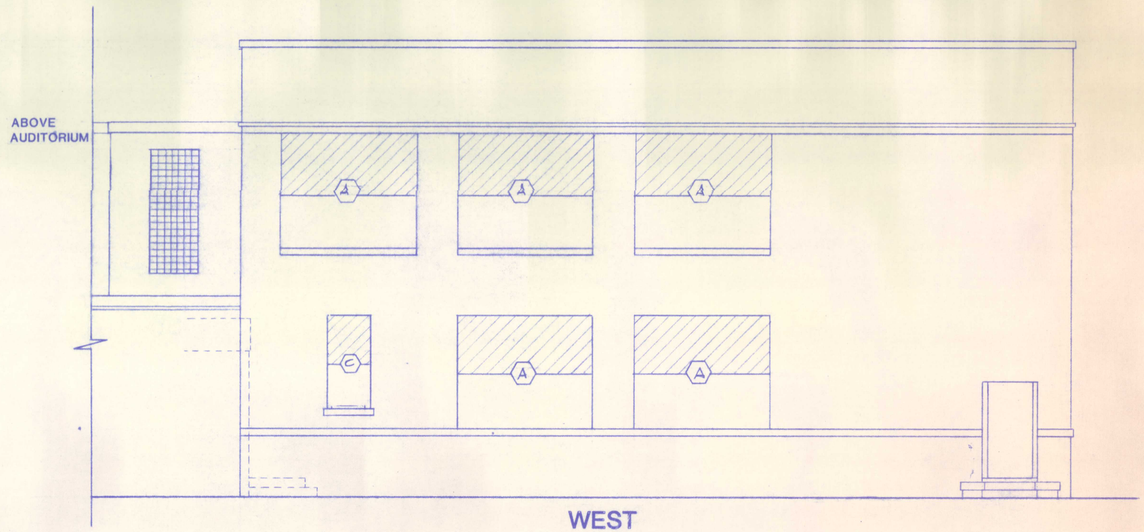
NO.	DATE

A-3

DATE:

STANDARD/BLUE, OMAHA 68028





JUNIOR/SENIOR HIGH ELEVATIONS

SCALE: 3/16" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

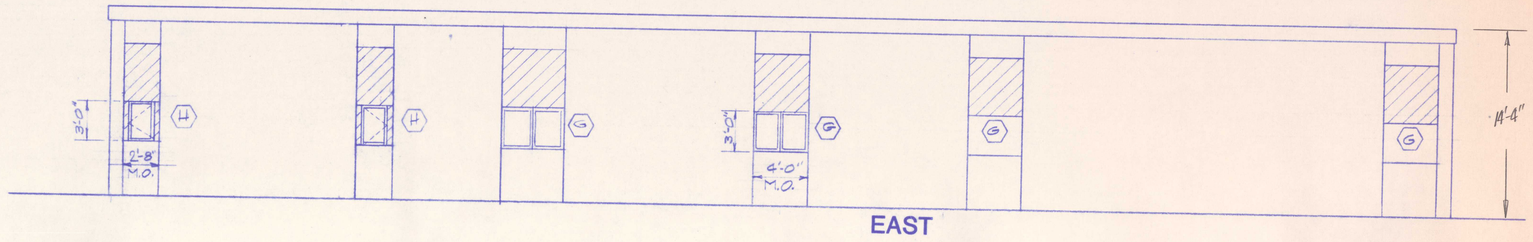
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

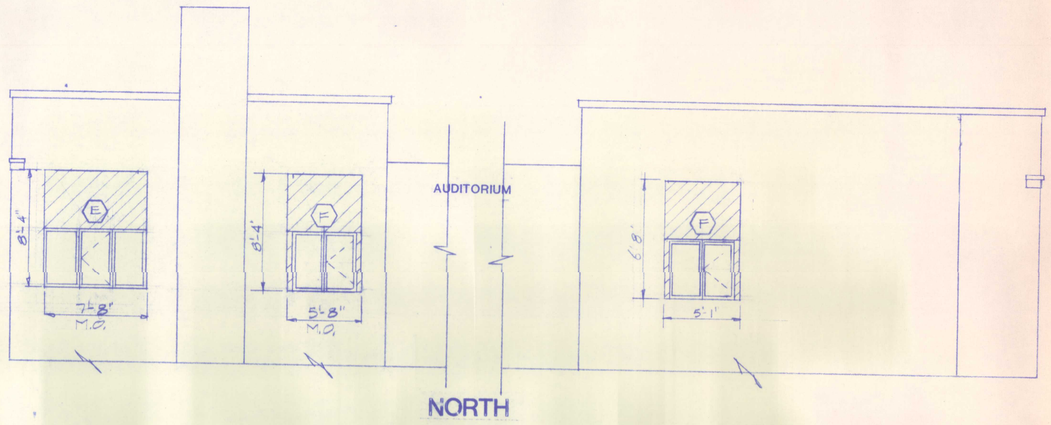
REVISIONS
NO. DATE

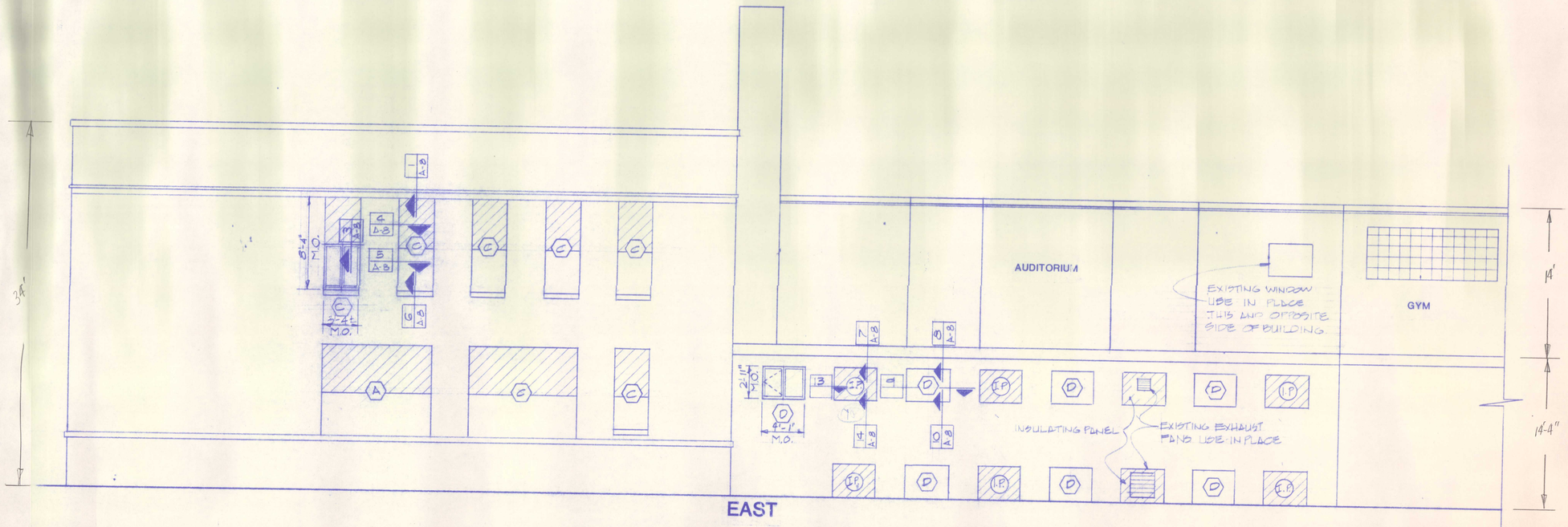
A-4

DATE:

STANDARDBLUE, OMAHA 68038







JUNIOR/SENIOR HIGH ELEVATIONS

SCALE: 3/16"=1'-0"

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

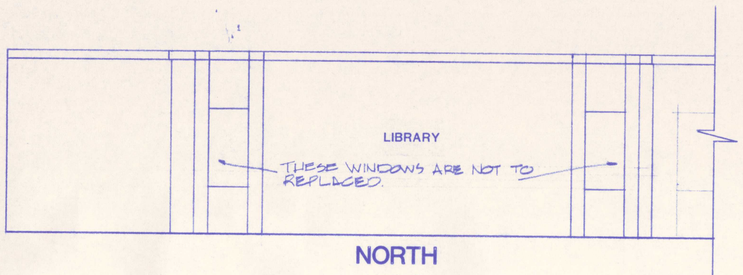
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

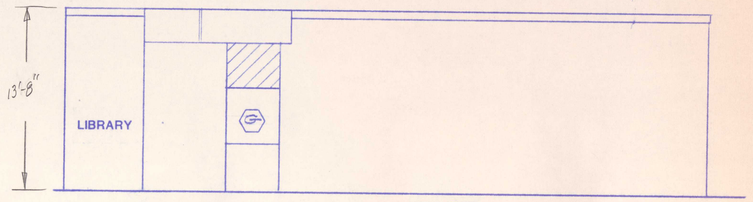
NO.	DATE

A-5

DATE:



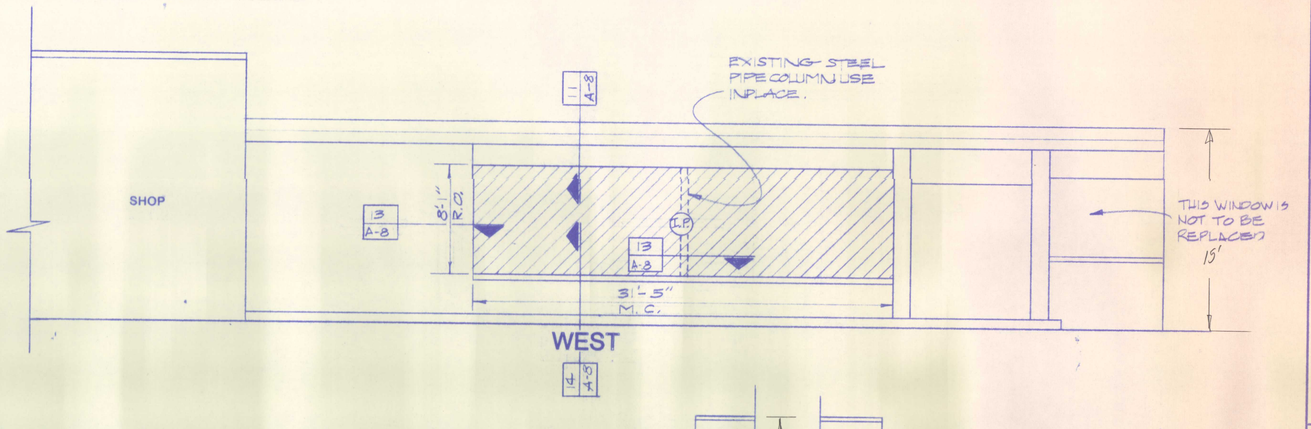
NORTH



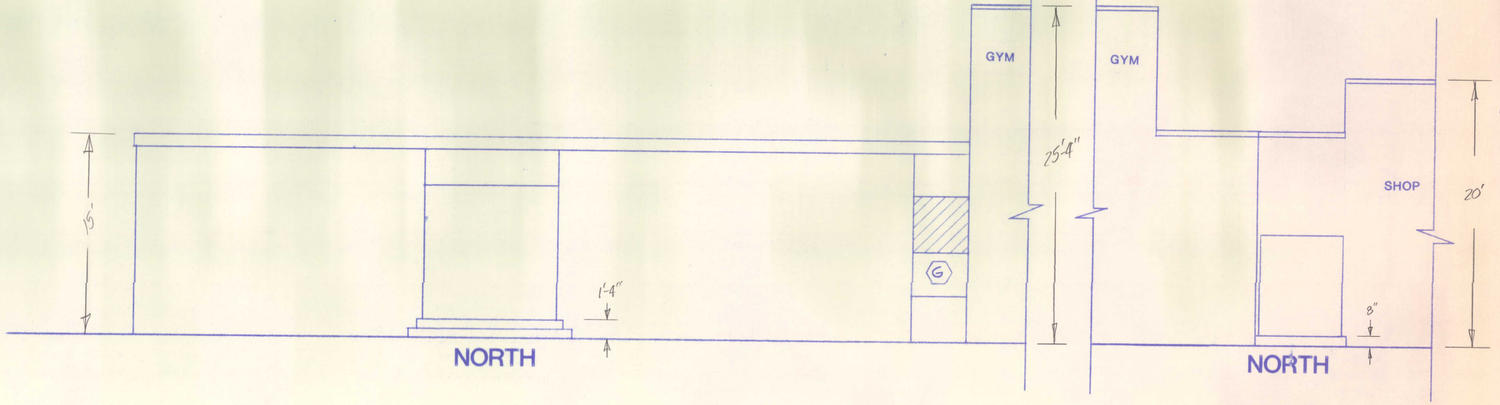
EAST

ELEMENTARY ELEVATIONS

SCALE: 3/16"=1'-0"



WEST



NORTH NORTH

JUNIOR/SENIOR HIGH ELEVATIONS

SCALE: 3/16"=1'-0"

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

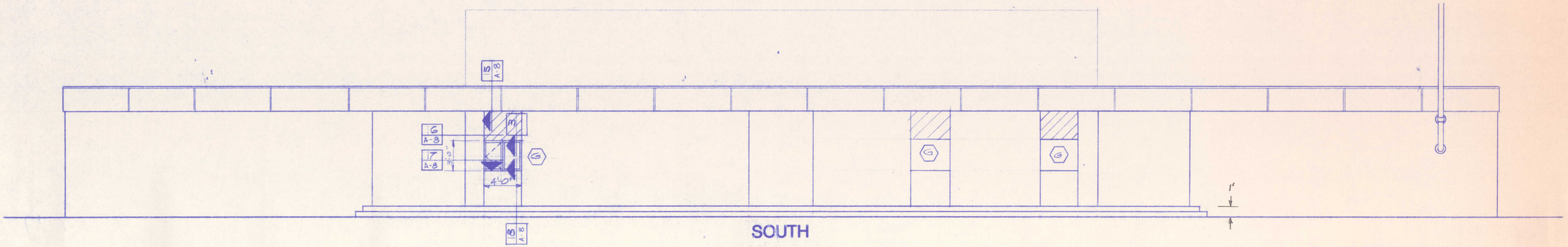
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

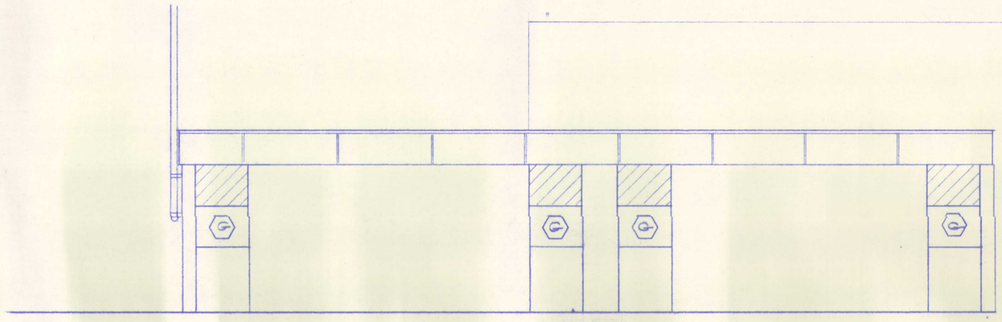
REVISIONS
No. | DATE

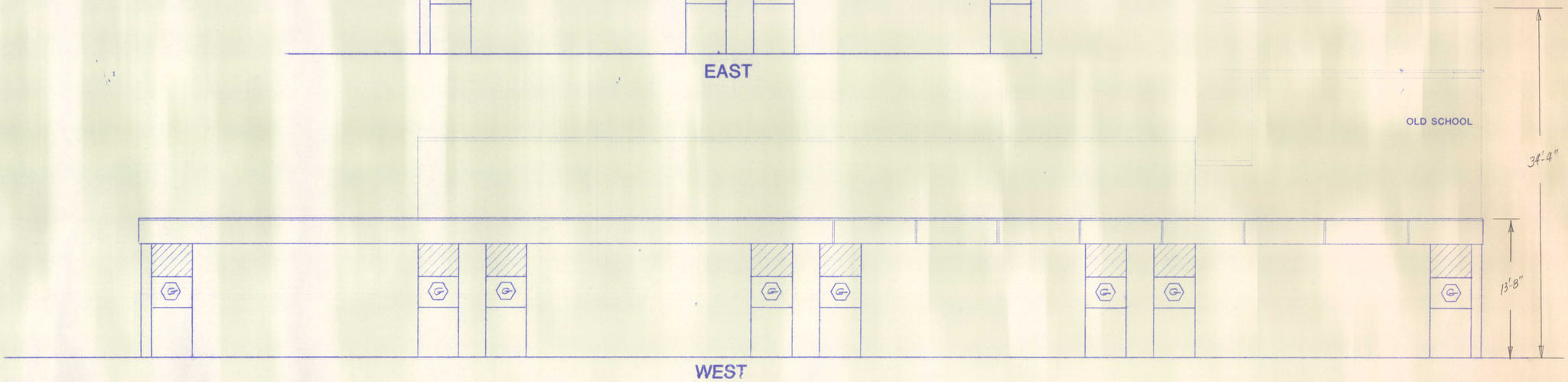
A-6

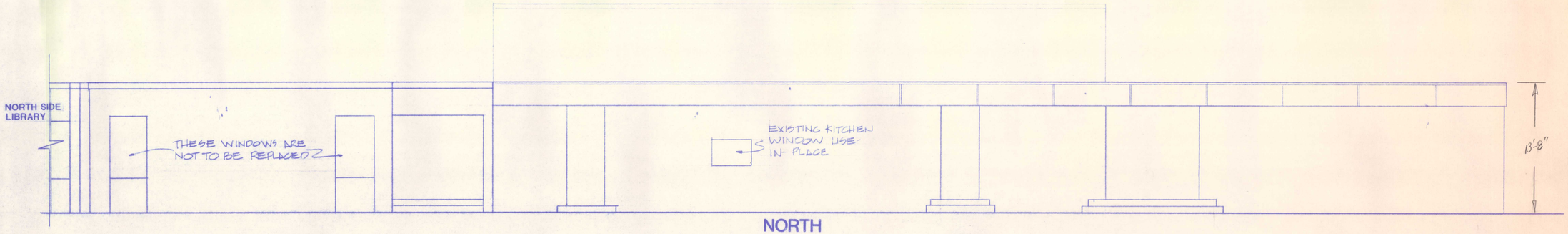
DATE:

STANDARDBLUE, OMAHA 83028









ELEMENTARY ELEVATIONS

SCALE: 3/16" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

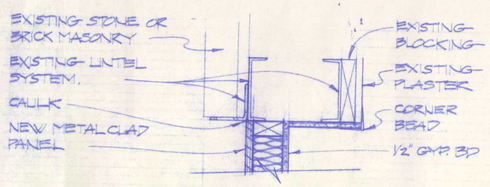
REVISIONS
NO. DATE

A-7

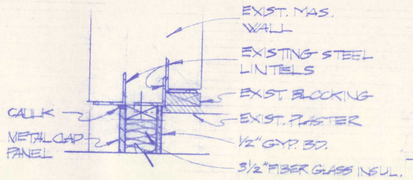
DATE:

STANDARDBILT, OMAHA 55055

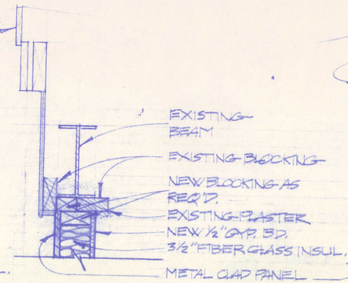
NOTE: THE GYP. BD. TRIM AROUND THE HEAD, JAMB, & SILL AS SHOWN WILL NOT BE REQUIRED IF THE EXISTING WINDOWS CAN BE REMOVED WITHOUT CAUSING EXTENSIVE DAMAGE & THE EXISTING TRIM CAN BE RE-USED



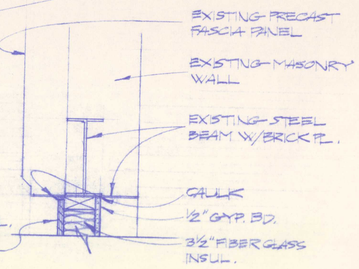
1 HEAD



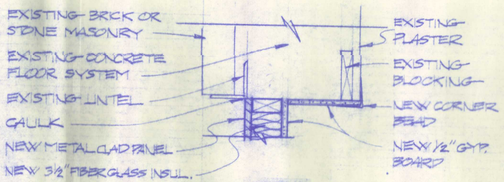
7 HEAD



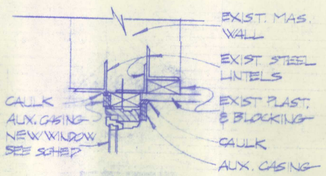
11 HEAD



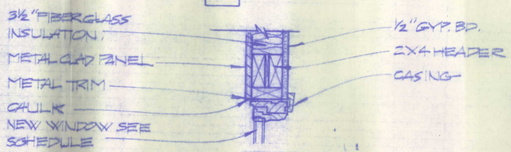
15 HEAD



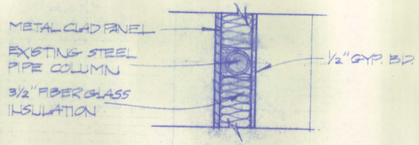
2 HEAD



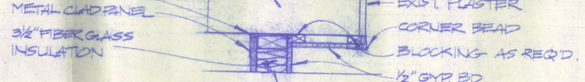
8 HEAD



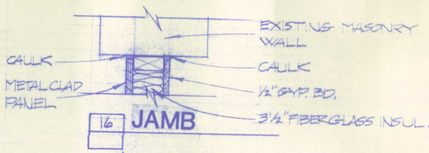
3 HEAD



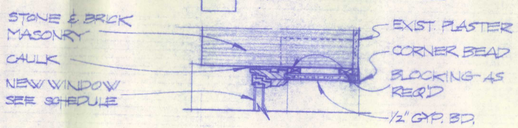
12 PLAN AT SILL



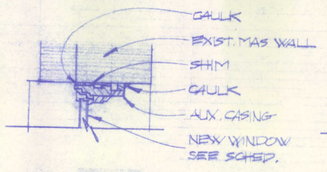
4 JAMB



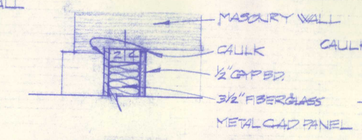
16 JAMB



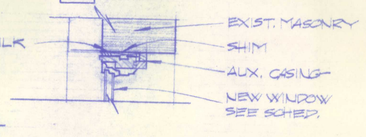
5 JAMB



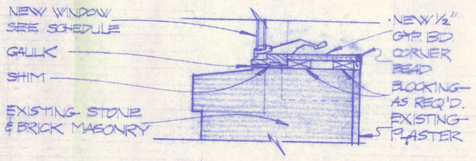
9 JAMB



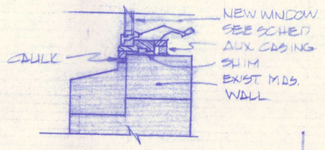
13 JAMB



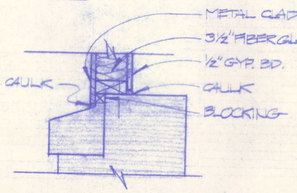
17 JAMB



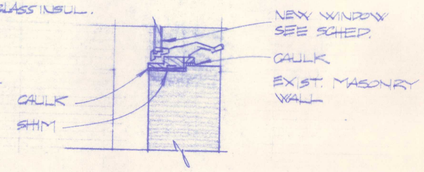
6 SILL



10 SILL



14 SILL



18 SILL

WINDOW SCHEDULE

MARK	DESCRIPTION
A.	2'-6" x 4'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
B.	2'-4" x 2'-4" nominal gliding or casement windows operating/fixed units as shown on the elevations.
C.	1'-10" x 4'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
D.	2'-6" x 4'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
E.	2'-6" x 4'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
F.	2'-6" x 4'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
G.	2'-0" x 3'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.
H.	2'-0" x 3'-0" nominal gliding or casement windows operating/fixed units as shown on the elevations.

NOTES:
As shown on the elevations the windows are combinations of fixed and operating units; nominal sizes are called out. Final sizes shall accommodate trim, shims & blocking as required by the specific window manufacturer's system. Window sizes may be varied to match specific window manufacturer's sizes.

Nominal sizes shown are for the smallest unit of the window assembly.

Details showing existing conditions are from the original drawings. Field conditions may vary. The Contractor shall field verify all dimensions.

CAMBRIDGE PUBLIC SCHOOLS
ENERGY EFFICIENCY IMPROVEMENTS
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-8

STANDARDBLUE, GHANA

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL BOARD MEMBERS

BOARD PRESIDENT	MR. KEITH KLOCKE
BOARD VICE PRESIDENT	DR. WARREN JONES
BOARD MEMBER	MRS. KATHY BROWN
BOARD MEMBER	MR. PHILLIP JOHNSON
BOARD MEMBER	MR. VIC KNUTSON
BOARD MEMBER	MR. MARK MILLER

ADMINISTRATION STAFF

SUPERINTENDENT	MR. JIM TENOPIR
SEC. PRINCIPAL	MR. DON STINE
ELEM. PRINCIPAL	MR. DON SACKETT

BUILDING EXPANSION AND REMODELING PROJECT

CAMBRIDGE, NEBRASKA

Note:

General -

At all locations detailing USG 2" "Z" furring, add 2" x 2" rigid insulation blocking strips at all "Z" furring.

All thickened slab footings shall be 8" deep as detailed on Section WS-10, Sheet A-24.

SHEET INDEX

ARCHITECTURAL DRAWINGS

SHEET NUMBER	DESCRIPTION
A-1	SITE PLAN
A-2	GRADING AND PAVING SITE PLAN
A-3	SITE UTILITIES PLAN
A-4	ADMINISTRATION AND CLASSROOM AREA FLOOR PLAN
A-5	PHYSICAL EDUCATION AREA FLOOR PLAN
A-6	LOCKER ROOM AREA FLOOR PLAN
A-7	ARTROOM REMODELING FLOOR PLAN
A-8	HOME ECONOMICS AREA REMODELING FLOOR PLAN
A-9	ROOM FINISH AND DOOR SCHEDULES
A-10	DOOR DETAILS
A-11	DOOR AND WINDOW DETAILS
A-12	STAIRWAY AND STAIR RAILING DETAILS
A-13	EXTERIOR STAIR AND DOOR DETAILS
A-14	ADMINSTRATION AREA MILLWORK PLAN
A-15	MILLWORK ELEVATIONS
A-16	MILLWORK ELEVATIONS
A-17	MILLWORK ELEVATIONS AND DETAILS
A-18	MILLWORK DETAILS
A-19	MILLWORK DETAILS
A-20	EXTERIOR ELEVATIONS
A-21	BUILDING CROSS SECTIONS
A-22	BUIDLING WALL SECTIONS
A-23	BUILDING WALL SECTIONS
A-24	BUILDING WALL SECTIONS
A-25	BUILDING WALL SECTIONS
A-26	BUILDING WALL SECTIONS
A-27	BUILDING WALL SECTIONS
A-28	BUILDING WALL SECTIONS
A-29	PARTIAL BUILDING SECTION
A-30	PARTIAL BUILDING SECTION
A-31	PARTIAL BUILDING SECTION

STRUCTURAL DRAWINGS

SHEET NUMBER	DESCRIPTION
S-1	ADMINISTRATION AND CLASSROOM AREA FOUNDATION PLAN
S-2	PHYSICAL EDUCATION AREA FOUNDATION PLAN
S-3	ADMINISTRATION AND CLASSROOM AREA FRAMING PLAN
S-4	PHYSICAL EDUCATION AREA FRAMING PLAN
S-5	LOCKER ROOM AREA FRAMING PLAN AND DETAILS

MECHANICAL DRAWINGS

SHEET NUMBER	DESCRIPTION
M-1	ADMINISTRATION AND CLASSROOM AREA HVAC PLAN
M-2	PHYSICAL EDUCATION AREA HVAC PLAN
M-3	LOCKER ROOM HVAC PLAN
M-4	ADMINISTRATION AND CLASSROOM AREA GASLINE, ROOF DRAIN AND PLUMBING PLAN
M-5	PHYSICAL EDUCATION AREA GASLINE, AND ROOF DRAIN PLAN
M-6	PUBLIC RESTROOM PLUMBING PLAN
M-7	LOCKER ROOM PLUMBING PLAN

MECHANICAL/ELECTRICAL DRAWINGS

SHEET NUMBER	DESCRIPTION
ME-1	HOME ECONOMICS MECHANICAL/ELECTRICAL REVISIONS

ELECTRICAL DRAWINGS

SHEET NUMBER	DESCRIPTION
E-1	ADMINISTRATION AND CLASSROOM AREA ELECTRICAL PLAN
E-2	LOCKER ROOM ELECTRICAL PLAN
E-3	PHYSICAL EDUCATION AREA ELECTRICAL PLAN
E-4	MEZZANINE LEVEL ELECTRICAL AND ELECTRICAL ONE LINE DIAGRAMNS
E-5	ADMINISTRATION AND CLASSROOM AREA SPECIAL SYSTEMS
E-6	LOCKER ROOM SPECIAL SYSTEMS
E-7	PHYSICAL EDUCATION AREA SPECIAL SYSTEMS

ON Plan

Revised wall Length Room 154

REVISIONS

NO.

CAMBRIDGE PUBLIC SCHOOL 1781-5001

TOPOGRAPHIC & LEGAL SURVEY OF
LOTS 1 THRU 10, BLOCK J, ALONG WITH VACATED FLANNERY AVENUE, EXTENSION OF BAKER'S ADDITION; LOTS 3 THRU 8 ALONG WITH THE SOUTH 100' OF VACATED ALLEY, & VACATED NEVADA STREET, LOCATED IN BLOCK H & ALL OF BLOCK G, BAKER'S ADDITION TO CAMBRIDGE, FURNAS COUNTY, NEBRASKA.

LEGEND

- FOUND PIN
- SET 1/2" REBAR
- SET P-K NAIL IN LEAD PLUG
- P — ELECTRIC POWER LINE
- G — GAS LINE
- SS — SANITARY SEWER LINE
- T — TELEPHONE LINE
- TV — TV CABLE
- W — WATER LINE
- FH — FIRE HYDRANT
- WF — WATER FAUCET
- WV — WATER VALVE
- LP — LIGHT POLE
- PP — POWER POLE
- GM — GAS METER
- FENCE
- CONCRETE

BENCHMARKS:

TBM #1 = SW BOLT TOP FLANGE FIRE HYDRANT NE CORNER OF SHOLE AVE. AND NELSON STREET ELEV. = 2267.42

TBM #2 = TOP P-K NAIL SW CORNER INTERSECTION OF SHOLE AVE. AND NEVADA ST. ELEV. = 2267.31

TBM #3 = SW BOLT TOP FLANGE FIRE HYDRANT NE CORNER OF FLANNERY AVE. NEVADA STREET ELEV. = 2268.49

TBM #4 = TOP OF REBAR SE CORNER LOT 7, BLOCK I WEST SIDE OF ALLEY. ELEV. = 2266.87

BRASS CAP SOUTH OF SW CORNER OF LIGHT PLANT NORTH OF HWY #6 CAMBRIDGE, 1933 ELEV. = 2268.29

SCALE: 1" = 30'

UTILITIES:

WATER, SEWER & ELECTRIC - CITY OF CAMBRIDGE

GAS - K-N ENERGY INC.

TV CABLE & TELEPHONE - CAMBRIDGE TELEPHONE CO.

INTERIOR COURTYARD DETAIL
SCALE: 1" = 20'

NEBRASKA REGISTERED LS-391 LAND SURVEYOR DAVID L. SCHMITZ

SURVEYOR'S CERTIFICATE

I do hereby certify that, under my personal supervision, this plat was prepared from an actual survey completed this 25th day of April, 1991, and is correct to the best of my knowledge.

David L. Schmitz
Registered Land Surveyor
Nebraska Reg. No. 391

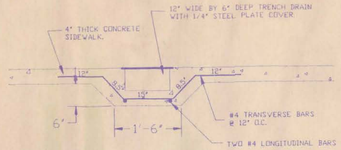
TAGGE ENGINEERING CONSULTANTS
HOLDREGE, NEBRASKA

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers & Architects
McCook, Nebraska 69001

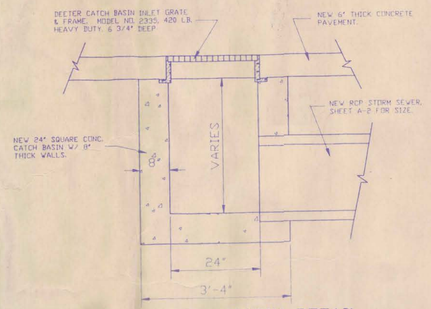
A-1

SEPTEMBER, 1991



TYPICAL TRENCH DRAIN DETAIL

NO SCALE



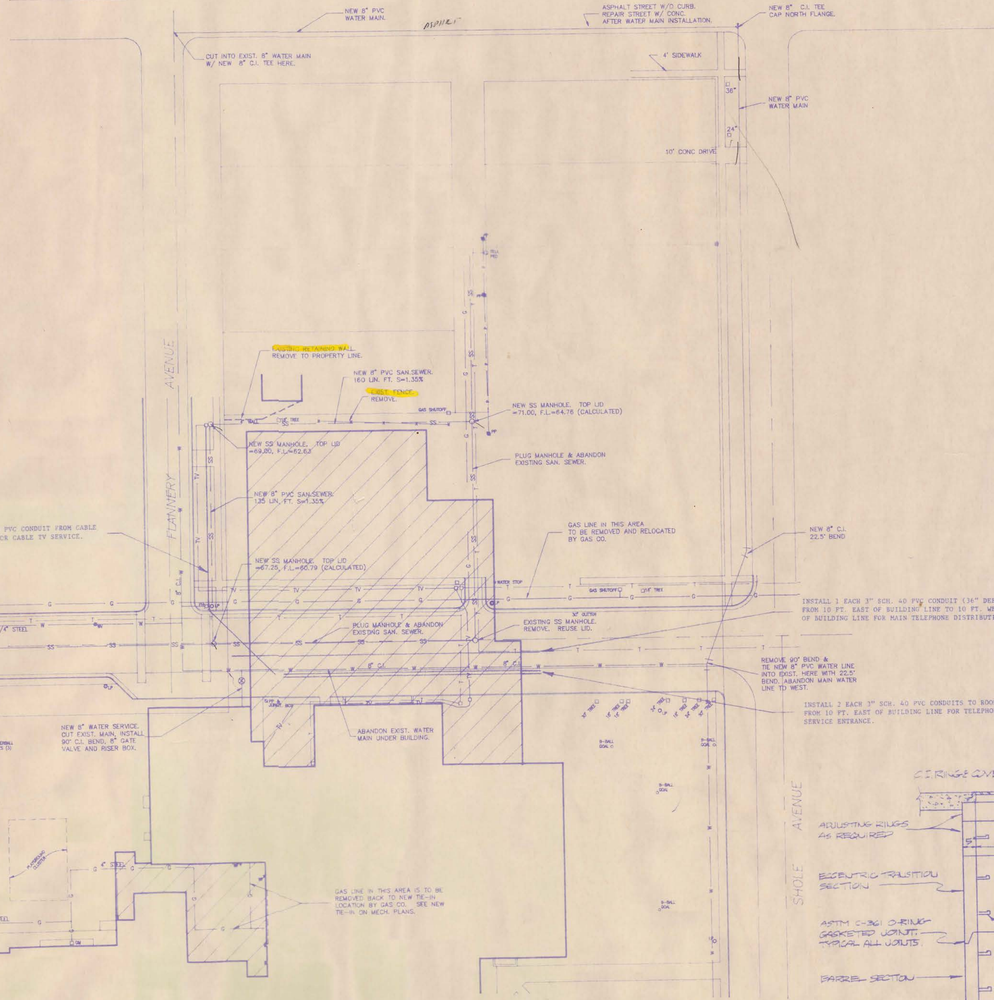
TYPICAL CATCH BASIN DETAIL

NO SCALE

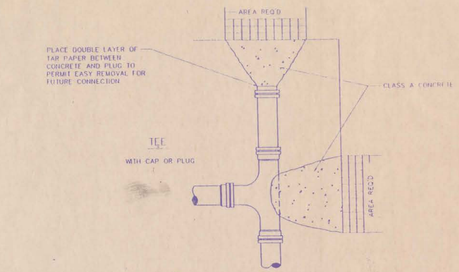
LEGEND

- E — ELECTRIC POWER LINE
- G — GAS LINE
- SS — SANITARY SEWER LINE
- T — TELEPHONE LINE
- TV — TV CABLE
- W — WATER LINE
- FH — FIRE HYDRANT
- WF — WATER FAUCET
- WV — WATER VALVE
- LP — LIGHT POLE
- PP — POWER POLE
- GM — GAS METER
- F — FENCE

SCALE: 1" = 45'

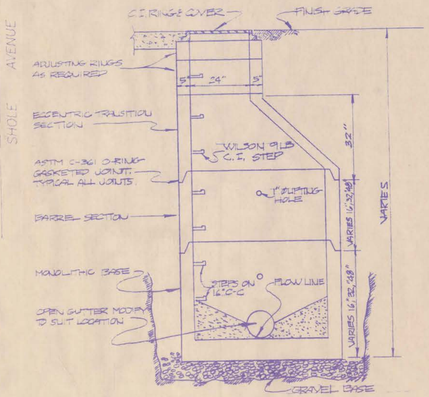


SITE UTILITIES PLAN



THRUST AREA REQUIRED – SQUARE FEET

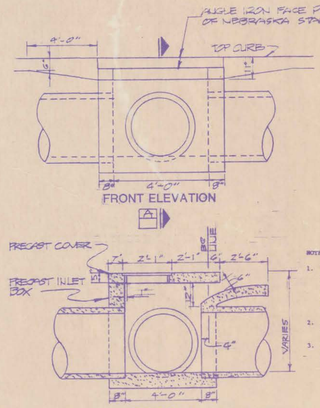
SIZE	22 1/2° BEND	45° BEND	90° BEND	TEE	CAP OR PLUG
2	1	1	1	1	1
3	1	1	1	1	1
4	1	1	2	1	1
6	1	2	3	2	2
8	2	3	5	4	4
10	3	5	8	5	5
12	4	7	12	8	8



TYPICAL 48" PRECAST MANHOLE

NO SCALE

NOTE: COVER OUTSIDE OF MANHOLE W/ 1 COAT W.R. MEADOWS SEALTIGHT "SEMI-MASTIC" OR "TROWEL-MASTIC" DAMPPROOFING OR EQUAL



NOTES:

1. The Type 1 Junction box is identical to the Type 1 Curb Inlet except for precast lid shall be the State of Nebraska Standard for "Under Traffic".
2. Steps shall be C.I. & installed 16" O.C.
3. The Precast boxes shall be set on a 4" crushed rock or gravel base.

TYPE 1 CURB INLET DETAIL

NO SCALE

TYPE 1 JUNCTION BOX DETAIL

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS

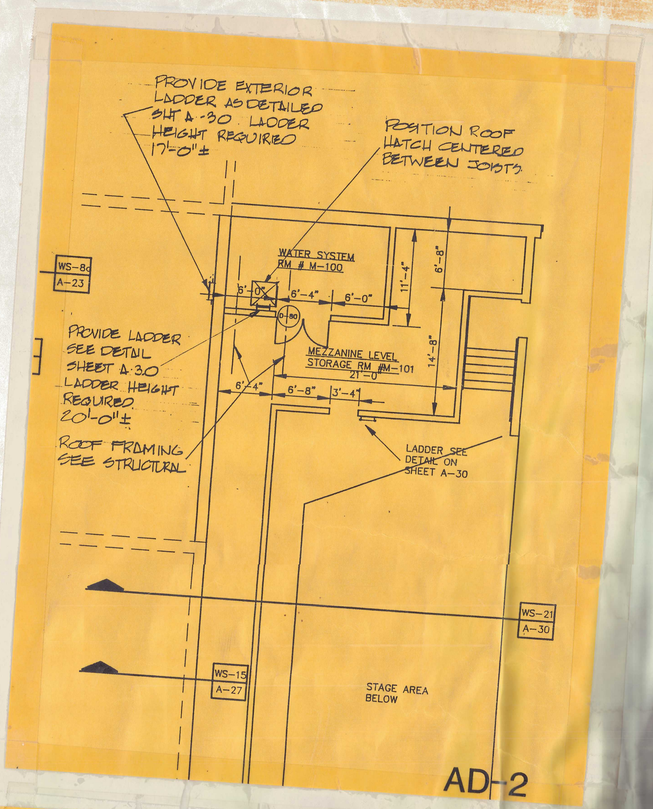
SCHOOL IMPROVEMENT PROJECT

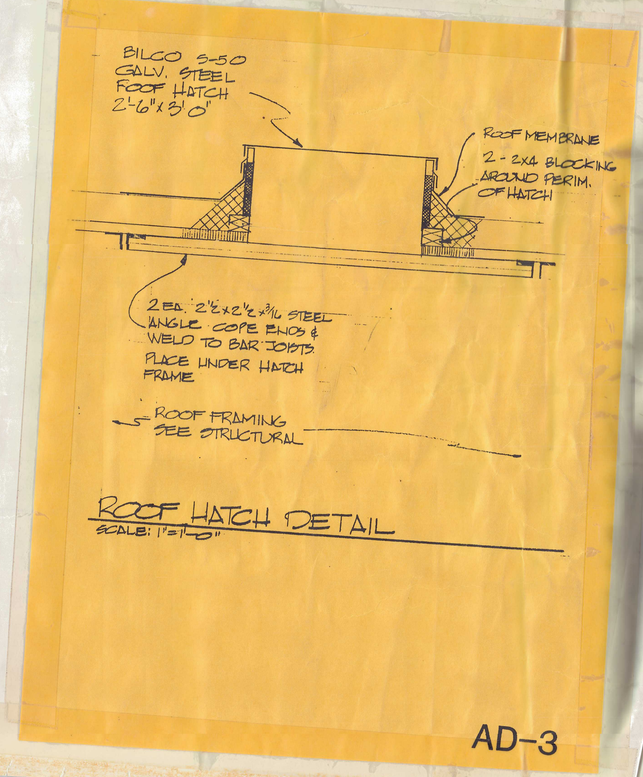
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

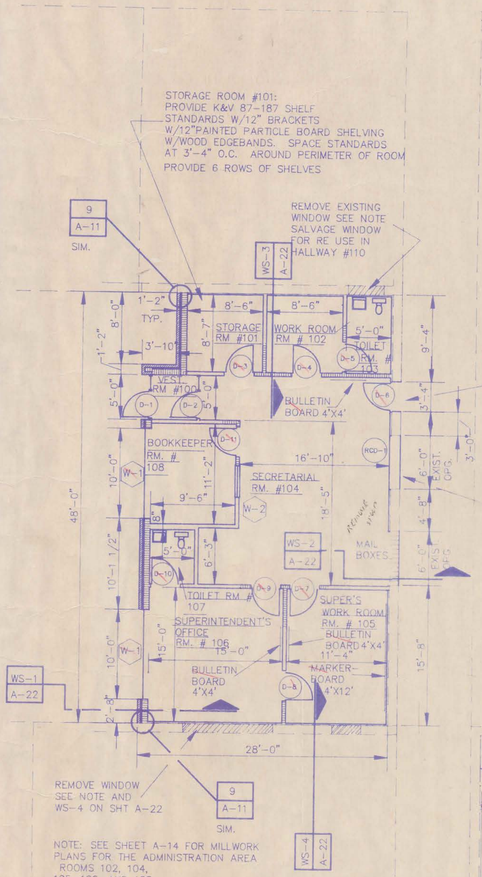
REVISIONS		
NO.	DATE	

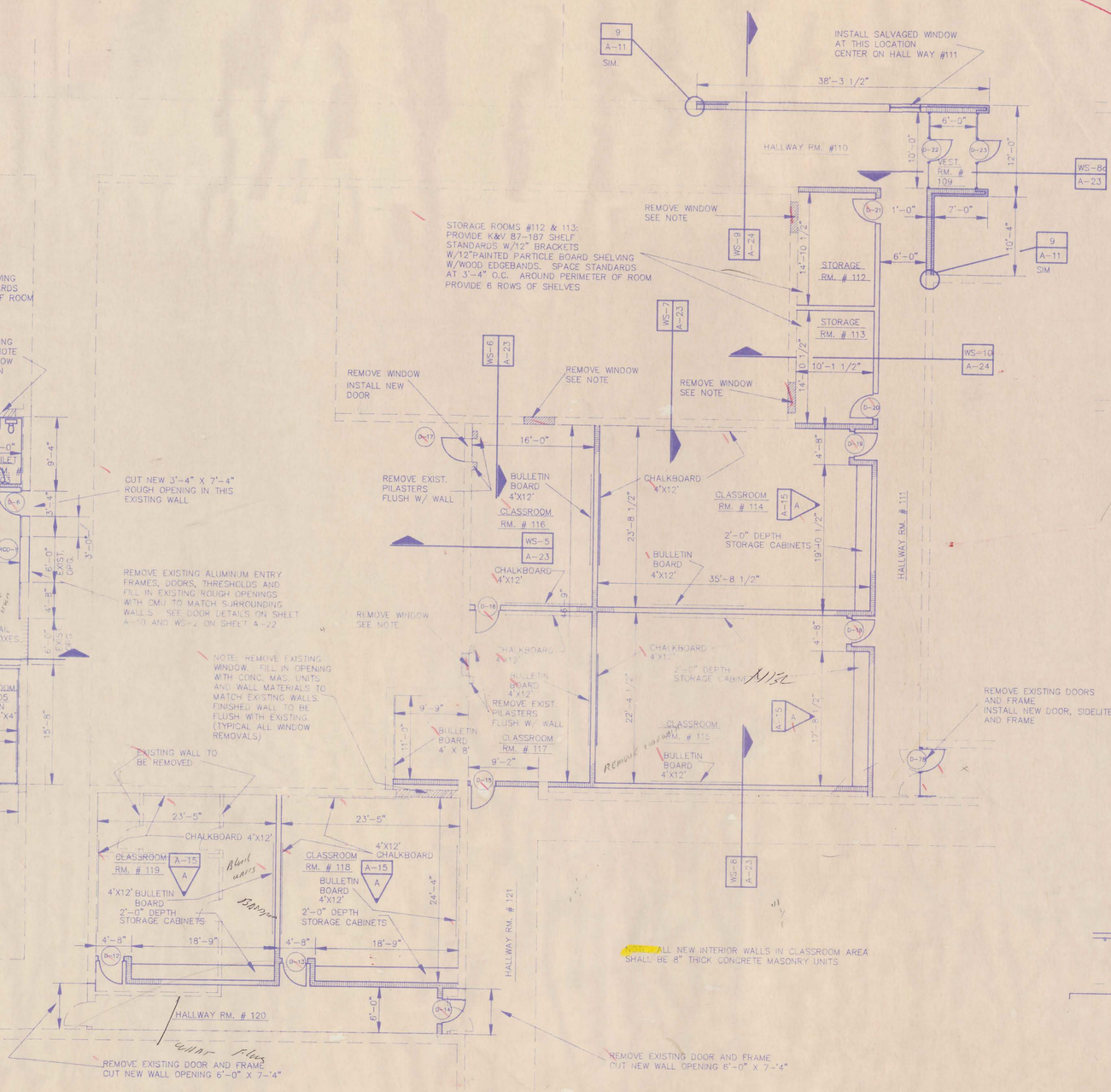
A-3

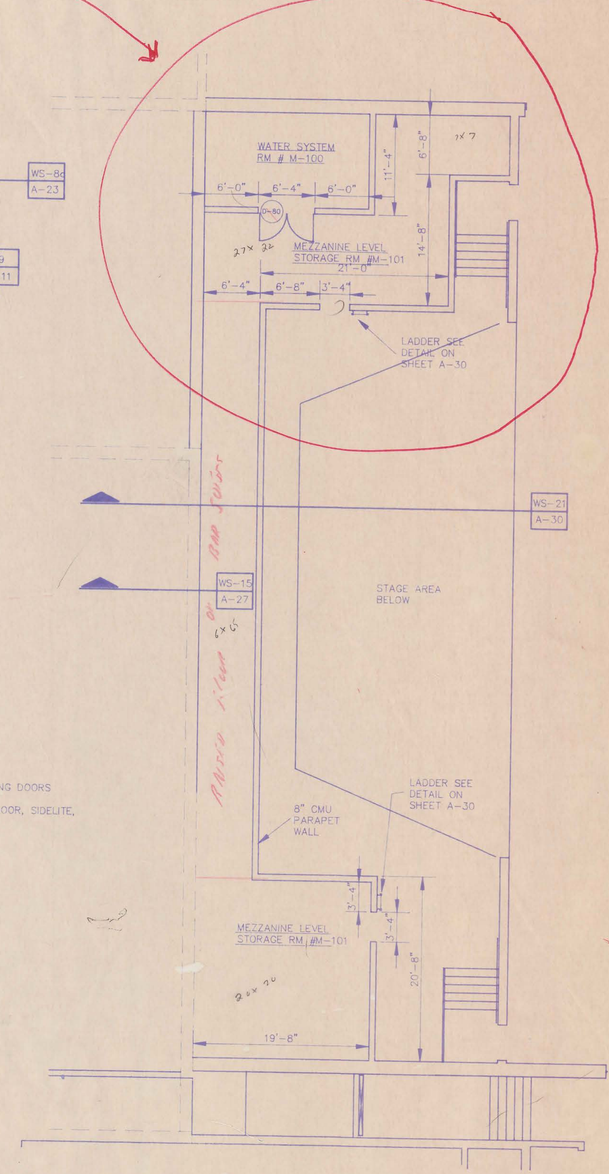

PROVIDE EXTERIOR LADDER AS DETAILED SHT A-30 LADDER HEIGHT REQUIRED 17'-0" ±
POSITION ROOF HATCH CENTERED BETWEEN JOISTS
WS-8
A-23
WATER SYSTEM RM # M-100
8'-0"
6'-4"
6'-0"
11'-4"
6'-8"
14'-8"
A/M0
PROVIDE LADDER SEE DETAIL SHEET A-30 LADDER HEIGHT REQUIRED 20'-0" ±
MEZZANINE LEVEL STORAGE RM #M-101
21'-0
8'-4"
6'-8"
3'-4"
ROOF FRAMING SEE STRUCTURAL
LADDER SEE DETAIL ON SHEET A-30
WS-21
A-30
WS-15
A-27
STAGE AREA BELOW
AD-2


BILCO S-50 GALV. STEEL ROOF HATCH 2'-6" x 3'-0"
ROOF MEMBRANE
2 - 2x4 BLOCKING AROUND PERIM. OF HATCH
2 EA. 2½" x 2½" x 3/16 STEEL ANGLE COPE ENDS & WELD TO BAR JOISTS PLACE UNDER HATCH FRAME
ROOF FRAMING SEE STRUCTURAL
ROOF HATCH DETAIL
SCALE: 1"=1'-0"
AD-3

← See Opposite Page







ADMINISTRATION AND CLASSROOM AREA FLOOR PLAN

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

NORTH

MEZZANINE LEVEL FLOOR PLAN ABOVE STAGE

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

NORTH

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-4

DATE: SEPTEMBER, 1991

NEW FLOOR PLAN – PHYSICAL EDUCATION AREA

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

NORTH

EXIST. 14"X24" WALL LOUVER REMOVE & PATCH WALL BACK TO MATCH EXIST.

EXISTING INDUSTRIAL ARTS AREA

HALLWAY RM. # 122

CUT NEW 3'-4" X 7'-4" OPENING IN EXISTING WALL SEE STRUC. FOR LINTEL

MARKERBOARD 4'X12'

INTERACTIVE VIDEO RM. # 123

EXISTING 5'-2" X 7'-0" MASONRY OPENING. BUILD NEW WALL TO REDUCE OPENING TO 4'-4" WIDE AND INSTALL NEW DOOR PER DOOR SCHEDULE.

OBSERVATION ROOM RM. # 125

LINE OF EXISTING WALLS

EXIST. 6'-4"X 7'-0" OPENING IN WALL. REMOVE DOORS AND FILL IN TO MATCH EXIST. CUT NEW 3'-4"X 7'-4" OPENING IN EXISTING WALL SEE STRUCTURAL FOR LINTEL

WEIGHT LIFTING RM. # 126

EXISTING GYM WALL OPENING, 14'-8" X 40'-0" INFILL WITH MASONRY TO MATCH EXISTING CONDITIONS

STORAGE CABINETS 2'-6" DEPTH

VOCAL MUSIC RM. # 127

4X12 BULLETIN BOARD

STORAGE CABINETS 2'-0" DEPTH

EXISTING 3'-4" X 7'-0" MASONRY OPENING, INFILL WITH MASONRY TO MATCH EXIST. COND.

STORAGE CABINETS 2'-0" DEPTH

EXIST. OPENING

RAMP UP

HALLWAY RM. # 137

CUT NEW 4'-4" X 7'-4" OPENING IN EXISTING WALL SEE STRUC. FOR LINTEL

REMOVE EXISTING WINDOW FILL IN OPENING W/CONC. MAS. UNITS AND WALL MATERIAL TO MATCH EXIST. WALLS. NEW WALL TO BE FLUSH. W/ EXIST. SURFACE

EXIST. 6'-4" X 7'-4" OPENING IN WALL. REMOVE DOORS & FILL IN TO MATCH EXISTING

CUT NEW 6'-0"X 7'-4" OPENING IN EXISTING WALL SEE STRUCTURAL FOR LINTEL

LINE OF EXISTING BUILDING

PRACTICE RM. # 135

PRACTICE RM. # 134

OFFICE RM. # 133

HALLWAY RM. # 132

PRACTICE RM. # 131

CUT NEW 6'-0"X 7'-4" OPENING IN EXISTING WALL SEE STRUCTURAL FOR LINTEL

INSTRUMENTAL MUSIC RM. # 128

4'X6' BULLETIN BOARD

4'X16' MUSIC CHALKBOARD

INSTRUMENT STORAGE RM. # 130

2'-6" DEPTH STORAGE CABINETS

RAMP DOWN

LANDING

STORAGE RM. # 139

STORAGE RM. # 140

LADDER SEE DETAILS ON SHEET A-30

LINE OF STAGE CURTAIN

STAGE RM. # 141

RAMP DOWN

CUT NEW 3'-4"X 7'-4" OPENING IN EXISTING WALL SEE STRUCTURAL FOR LINTEL

LADDER SEE DETAILS ON SHEET A-30

STORAGE RM. # 142

LANDING HALLWAY RM. # 138

RAMP UP

LANDING RAMP UP

TROPHY CASE 2 EACH AS SHOWN ON SHEET A-16

PROVIDE SHELF AND CLOTHES ROD PAR NOTE THIS SHEET

UNIFORM STORAGE RM. #129

LOCATION OF PRACTICE BASKETBALL BACKSTOP, TYPICAL OF 4

LOCATION OF COMPETITION VOLLEY BALL FLOOR INSERTS CENTERED ABOUT THE CENTER LINE OF THE COMPETITION BASKET BALL COURT

LINE OF PRACTICE COURTS

LOCATION OF PRACTICE VOLLEY BALL FLOOR INSERTS

GYMNASIUM FLOOR RM. # 143

OFFICIALS LOCKER RM. # 150

MENS TOILET RM. # 149

WOMENS TOILET RM. # 148

TROPHY CASE 4 EACH AS SHOW ON SHEET A-16

TROPHY CASE 3 EACH AS SHOWN ON SHEET A-16

COMMONS AREA RM. # 147

ACCESS POINT TO LOCKER ROOM (SEE 1/4" SCALE LOCKER ROOM PLAN)

LOWER LEVEL RETRACTABLE BLEACHER SEATING (SEE SPECS)

UPPER LEVEL RETRACTABLE BLEACHER SEATING (SEE SPECS)

UPPER LEVEL RM. # 144

SEE GATE AND RAIL DETAILS ON SHEET A-12 AND A-21

STAIRS UP

STAIRS UP

RAILING SIM.

ACCESS POINT TO LOCKER ROOM (SEE 1/4" SCALE LOCKER ROOM PLAN)

STAIRS UP

SEE STAIR DETAILS SD-3, & SD-4 SHEET A-12

STORAGE RM. # 145

STORATE ROOM #145 PROVIDE K&V 87-187 SHELF STANDARDS W/12" BRACKETS W/ 12" PAINTED PARTICLE BOARD SHELVING W/ WOOD EDGE BANDS. SPACE STANDARDS AT 3'-4" AROUND PERIMETER OF ROOM PROVIDE 6 ROWS OF SHELVES

CONCESSIONS RM. # 146

NOTE: IN UNIFORM STORAGE RM #129 PROVIDE K&V # 1195 SHELF AND ROD SUPPORT W/ PAINTED PARTICLE BOARD SHELF AND NO. 770 CHROME PLATED STEEL ROD SPACE SUPPORTS AT 4'-0" O.C.

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-5

DATE: SEPTEMBER, 1991

Sheet A-6 - Girl's Locker Room
Chalk board shall be 4' x 8'.

See Detail Below.

SHADED MASONRY WALLS SHALL BE RUN UP TIGHT TO METAL DECK. ALL OTHER WALL TERMINATE AT CEILING LINE

TOILET AREA RM. # 153
PRIVACY SHOWERS RM. # 154
MECHANICAL RM. # 166
BOYS TOILET AREA RM. # 165
LAVATORIES RM. # 158
SHOWERS RM. # 155
SHOWERS RM. # 167
SUPPLY STORAGE RM. # 156
GIRLS LOCKER ROOM RM. # 152
BOYS LOCKER AREA RM. # 164
COACHES OFFICE RM. # 159
SHOWER AND TOILET AREA RM. # 161
STORAGE RM. # 160
HALLWAY RM. # 151
GIRLS TRAINING ROOM
BOYS TRAINING ROOM RM. # 168
COACHES LOCKER, SHOWER AND TOILET AREA RM. # 173
RM. # 172
RM. # 171
OFFICE AREA RM. # 169
HALLWAY RM. # 163
STORAGE RM. # 170

1" HIGH CONCRETE CURB, RADIUS TOP EDGES 1/2"

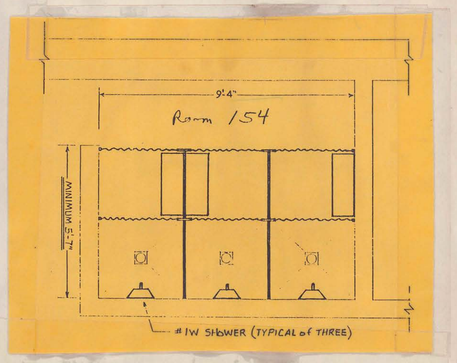
BULLETIN BOARDS
CHALK BOARDS
LOCKERS
WASHER DRYER (NIC)

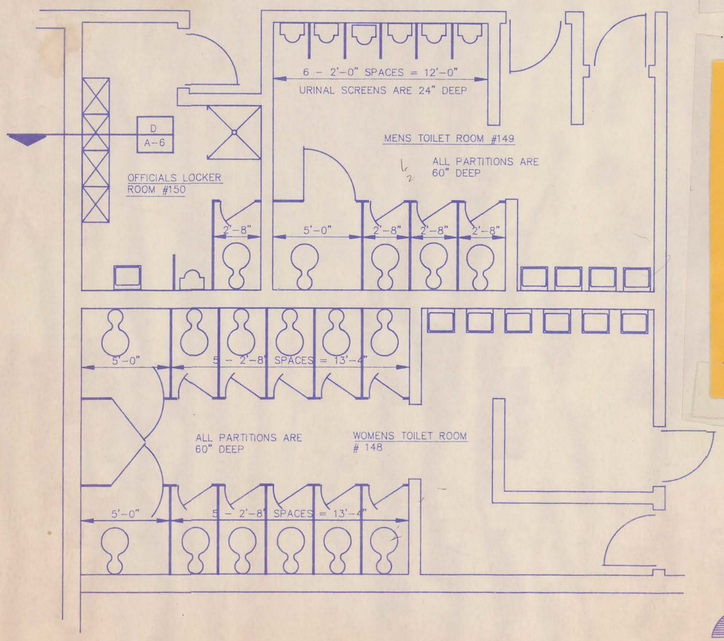
NOTE: ALL INTERIOR WALLS IN LOCKER AREAS SHALL BE 8" CONCRETE MASONRY UNITS

LOCKER ROOM FLOOR PLAN
SCALE: 1/4" = 1'-0"

NORTH

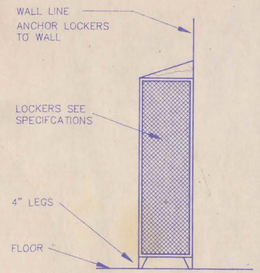
Sheet A-6:
Girl's Locker Room - Bulletin Board size is 4' x 8'.
Boy's Locker Room - Bulletin Board size is 4' x 12'. Chalk Board size is 4' x 12'.



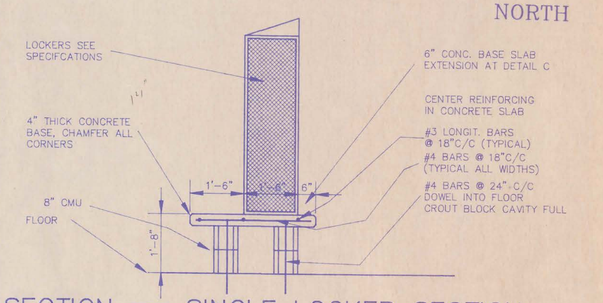


TOILET PARTITION LAYOUT PLAN
SCALE: 1/4" = 1'-0"

NORTH

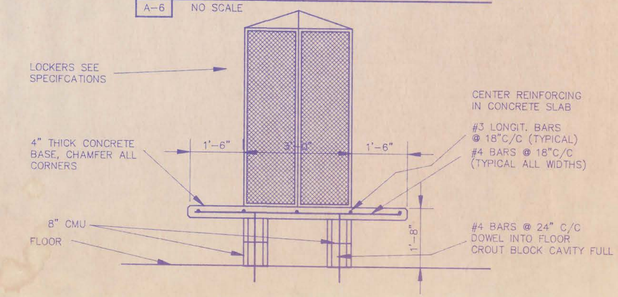


D A-6 SINGLE LOCKER SECTION
NO SCALE



B A-6 SINGLE LOCKER SECTION
NO SCALE

C A-6 SINGLE LOCKER SECTION
NO SCALE



A A-6 DOUBLE LOCKER SECTION
NO SCALE

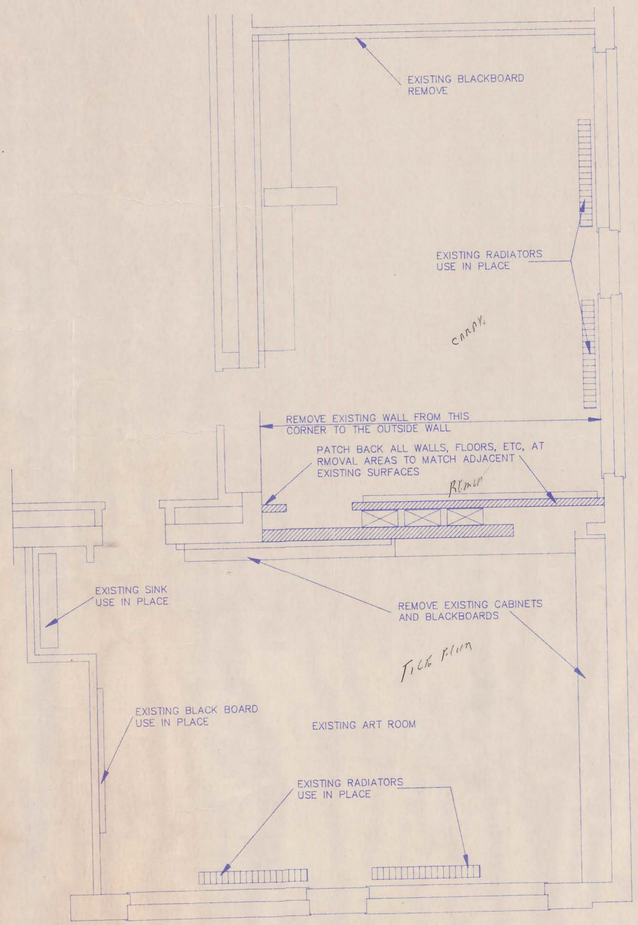
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

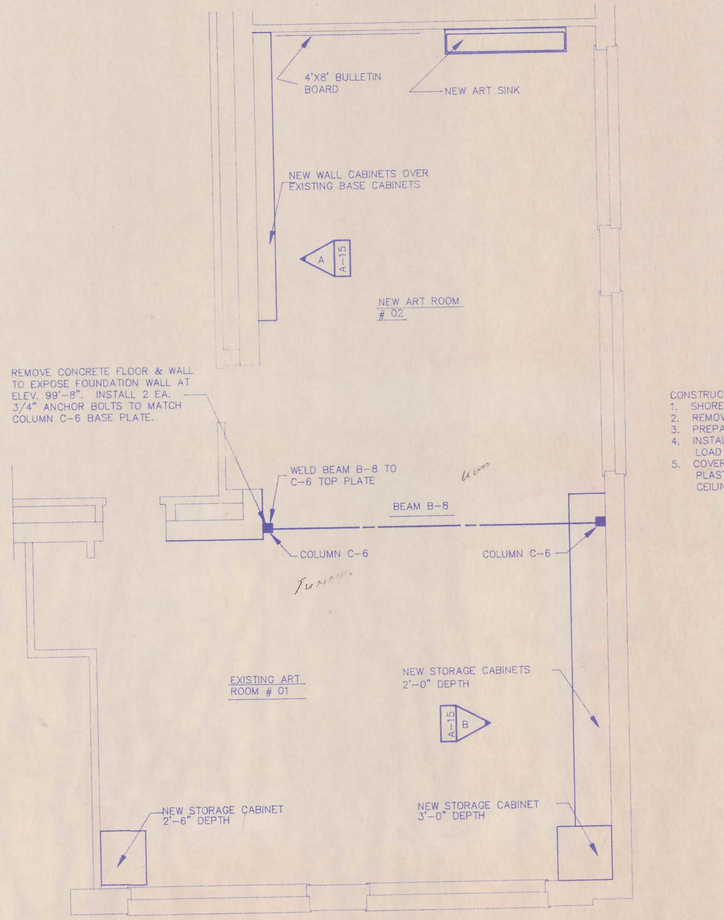
A-6

DATE:



EXISTING FLOOR PLAN – ART ROOM

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



NEW FLOOR PLAN – ART ROOM

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

CONSTRUCTION SEQUENCE SUGGESTED:
1. SHORE EXISTING FLOOR ABOVE ROOM 01.
2. REMOVE EXISTING WALL & CEILING AT BEAM.
3. PREPARE BASES FOR COLUMNS C-6.
4. INSTALL BEAM B-8 AND SHIM TO TAKE FLOOR LOAD FROM ABOVE.
5. COVER BEAM & COLUMNS WITH METAL LATH AND PLASTER AND PATCH BACK FLOOR, WALLS AND CEILING TO MATCH EXISTING.

NORTH

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

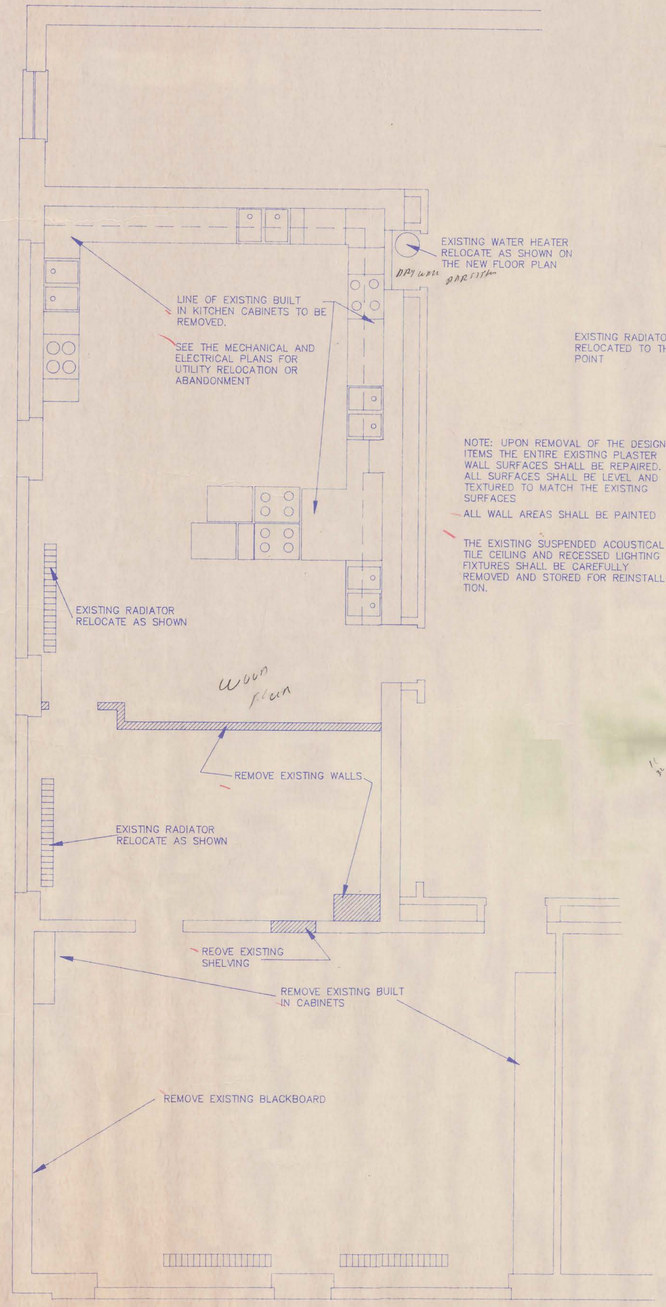
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-7

DATE: SEPTEMBER, 1



EXISTING FLOOR PLAN – HOME ECONOMICS

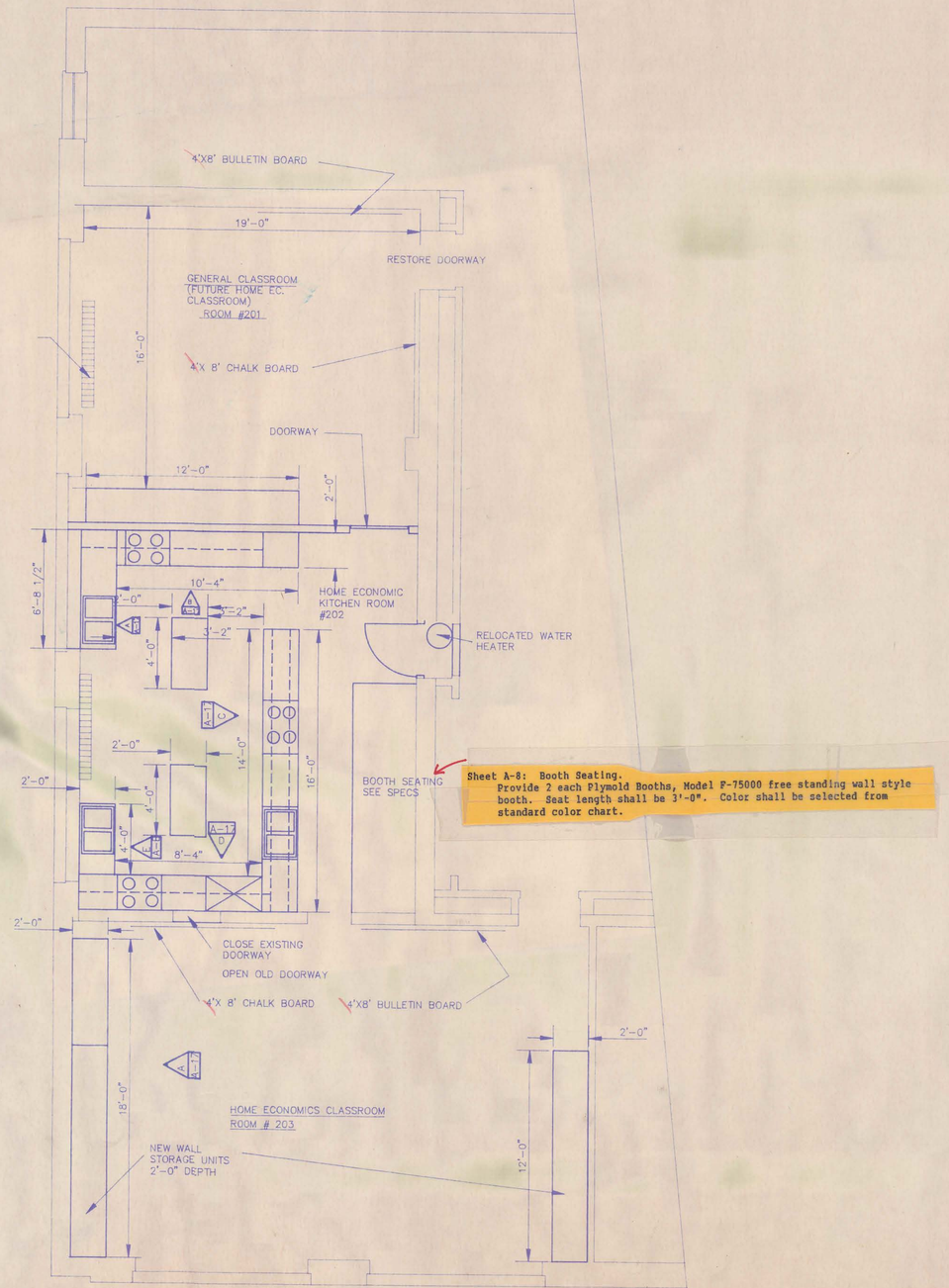
SCALE: 1/4"=1'-0"

EXISTING RADIATOR RELOCATED TO THIS POINT

NOTE: UPON REMOVAL OF THE DESIGNATED ITEMS THE ENTIRE EXISTING PLASTER WALL SURFACES SHALL BE REPAIRED, ALL SURFACES SHALL BE LEVEL AND TEXTURED TO MATCH THE EXISTING SURFACES

ALL WALL AREAS SHALL BE PAINTED

THE EXISTING SUSPENDED ACOUSTICAL TILE CEILING AND RECESSED LIGHTING FIXTURES SHALL BE CAREFULLY REMOVED AND STORED FOR REINSTALLATION.



Sheet A-8: Booth Seating.
Provide 2 each Plymold Booths, Model F-75000 free standing wall style booth. Seat length shall be 3'-0". Color shall be selected from standard color chart.

NEW FLOOR PLAN – HOME ECONOMICS

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

NORTH

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-8

DATE: SEPTEMBER, 1991

ROOM FINISH SCHEDULE

ROOM NO.	ROOM NAME	FLOORS: BASE: VINYL BASE	FLOORS: BASE: SPECIAL GYM FLOOR BASE	FLOORS: FLOOR: CARPET	FLOORS: FLOOR: RESILIENT FLOORING	FLOORS: FLOOR: WOOD	FLOORS: FLOOR: SEALED CONCRETE	CEILINGS: MATERIAL: SUSPENDED ACOUSTICAL TILE	CEILINGS: MATERIAL: 5/8" GYPSUM BOARD	CEILINGS: MATERIAL: EXPOSED STRUCTURE	CEILINGS: HEIGHT: 8'-0"	CEILINGS: HEIGHT: 8'-8"	CEILINGS: HEIGHT: 10'-0"	CEILINGS: HEIGHT: 30'-0"	WALLS: NORTH: CONCRETE MASONRY UNITS	WALLS: NORTH: 5/8" GYPSUM BOARD	WALLS: NORTH: EXISTING PLASTER, PATCH & REPAIR	WALLS: NORTH: EXISTING MASONRY, PATCH & REPAIR	WALLS: NORTH: GLASS	WALLS: EAST: CONCRETE MASONRY UNITS	WALLS: EAST: 5/8" GYPSUM BOARD	WALLS: EAST: EXISTING PLASTER, PATCH & REPAIR	WALLS: EAST: EXISTING MASONRY, PATCH & REPAIR	WALLS: EAST: GLASS	WALLS: SOUTH: CONCRETE MASONRY UNITS	WALLS: SOUTH: 5/8" GYPSUM BOARD	WALLS: SOUTH: EXISTING PLASTER, PATCH & REPAIR	WALLS: SOUTH: EXISTING MASONRY, PATCH & REPAIR	WALLS: SOUTH: GLASS	WALLS: WEST: CONCRETE MASONRY UNITS	WALLS: WEST: 5/8" GYPSUM BOARD	WALLS: WEST: EXISTING PLASTER, PATCH & REPAIR	WALLS: WEST: EXISTING MASONRY, PATCH & REPAIR	WALLS: WEST: GLASS	NOTES
	ADMINISTRATION AREA																																
100	VESTIBULE	X			X			X				X							X														
101	STORAGE	X			X			X				X																					
102	WORK ROOM	X			X			X				X																					
103	TOILET	X			X			X				X																					
104	SECRETARIAL	X			X			X				X																					PROVIDE VT. AS SHOWN ON SHT. A-14
105	SUPERINTENDENTS WRKRM	X			X			X				X																					
106	SUPERINTENDENTS OFFICE	X			X			X				X																					
107	SUPERINTENDENTS TOILET	X			X			X				X																					
108	BOOKKEEPER	X			X			X				X																					PROVIDE VT. AS SHOWN ON SHT. A-14
	EDUCATIONAL AREA																																
109	VESTIBULE	X			X			X				X							X														
110	HALLWAY	X			X			X				X																					
111	HALLWAY	X			X			X				X																					
112	STORAGE	X			X			X				X																					
113	STORAGE	X			X			X				X																					
114	ELEMENTARY CLASSROOM	X		X				X				X																					
115	ELEMENTARY CLASSROOM	X		X				X				X																					
116	SPECIAL EDUCATION	X		X				X				X																					
117	SPECIAL EDUCATION	X		X				X				X																					
118	CHAPTER ONE READING	X		X				X				X																					
119	CHAPTER ONE MATH	X		X				X				X																					
120	HALLWAY	X			X			X				X																					
121	HALLWAY	X			X			X				X																					
122	HALLWAY	X			X			X				X																					
123	INTERACTIVE VIDEO	X		X				X				X																					
124	STORAGE	X			X			X				X																					
125	OBSERVATION ROOM	X			X			X				X																					
126	WEIGHT LIFTING	X		X				X				X																					
127	VOCAL MUSIC	X		X				X				X																					
128	INSTRUMENTAL MUSIC	X		X				X				X																					
129	UNIFORM STORAGE	X			X			X				X																					
130	INSTRUMENT STORAGE	X		X				X				X																					
131	PRACTICE ROOM	X		X				X				X																					
132	HALLWAY	X			X			X				X																					
133	OFFICE	X		X				X				X																					
134	PRACTICE ROOM	X		X				X				X																					
135	PRACTICE ROOM	X		X				X				X																					
136	HALLWAY W/VESTIBULE	X			X			X				X																					
137	HALLWAY	X			X			X				X																					
138	HALLWAY	X			X			X				X																					
139	STORAGE	X			X			X				X																					
140	STORAGE	X			X			X				X																					
141	STAGE	X			X			X				X																					
142	STORAGE	X			X			X				X																					
143	GYMNASIUM	X	X					X						X																				SEE FLOOR PAINTING NOTE THIS SHT.
144	UPPER LEVEL SEATING	X			X			X						X																				
145	CONCESSIONS STORAGE	X			X			X				X																					
146	CONCESSIONS	X			X			X				X																					
147	COMMONS AREA	X			X			X				X																					
148	WOMENS TOILET	X			X			X				X																					
149	MENS TOILET	X			X			X				X																					
150	OFFICIALS DRESSING ROOM	X			X			X				X																					
	GIRLS LOCKER RM. AREA																																
151	ENTRY HALL	X			X			X				X																					
152	LOCKER ROOM	X			X			X				X																					
153	TOILET ROOM	X			X			X				X																					
154	PRIVACY SHOWERS	X			X			X				X																					
155	GANG SHOWERS	X			X			X				X																					
156	SUPPLY STORAGE	X			X			X				X																					
157	TRAINING ROOM	X			X			X				X																					
158	LAVATORY AREA	X			X			X				X																					
159	COACHES OFFICE	X			X			X				X																					
160	STORAGE ROOM	X			X			X				X																					
161	TOILET AREA	X			X			X				X																					
162	SHOWER ROOM	X			X			X				X																					
	BOYS LOCKER RM. AREA																																
163	ENTRY HALL	X			X			X				X																					
164	LOCKER AREA	X			X			X				X																					
165	TOILET AREA	X			X			X				X																					
166	MECHANICAL ROOM	X			X			X				X																					
167	GANG SHOWERS	X			X			X				X																					
168	TRAINING ROOM	X			X			X				X																					
169	COACHES OFFICE	X			X			X				X																					
170	STORAGE	X			X			X				X																					
171	TOILET ROOM	X			X			X				X																					
172	LOCKER ROOM	X			X			X				X																					
173	SHOWER ROOM	X			X			X				X																					
01	EXISTING ART ROOM	X		X				X				X																					SALVAGE AND REINSTALL EXIST. CEILING
02	NEW ART ROOM	X		X				X				X																					SALVAGE AND REINSTALL EXIST. CEILING
201	CLASSROOM	X		X				X				X																					SALVAGE AND REINSTALL EXIST. CEILING
201	HOME EC. KITCHEN	X		X				X				X																					
203	HOME EC. CLASSROOM	X		X				X				X																					

NOTES

- ○ STANDARD PAINTED SURFACE
- ● GLAZE COATING, SEE SPECIFICATION
- X MATERIAL SELECTED

DOOR AND FRAME SCHEDULE

MARK	NO. OF DOORS	DETAIL NO. SHEET NO.	DOORS: TYPE	DOORS: WIDTH	DOORS: HEIGHT	DOORS: THICKNESS	FRAMES: TYPE	FRAMES: SIZE	NOTES
D-1	1	15,16,17 A-11	A	3'-0"	7'-0"		A	2"X4"	
D-2	1	15A,16A,17 A-11	A	3'-0"	7'-0"		A	2"X4"	
D-3	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-4	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-5	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-6	1	9A A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-7	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-8	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-9	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-10	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-11	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-12	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-13	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-14	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-15	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-16	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-17	1	9A A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-18	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-19	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-20	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-21	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-22	1	15A,16A,17 A-11	A	3'-0"	7'-0"		A	2"X4	
D-23	1	15,16,17 A-11	A	3'-0"	7'-0"		A	2"X4"	
D-24	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-25	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-26	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-27	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-28	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-29	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-30	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-31,31A	1	15,15A,16,16A,17 A-11	A	3'-0"	7'-0"		A	2"X4"	
D-32	1	7,8, A-10	A	3'-0"	7'-0"		B	2"X5-3/4"	
D-33	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-34	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-35	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-36	1	7,8, A-10	C	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-37	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-38	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-39	1	7,8, A-10	B	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-40	PAIR	7,8, A-10	F	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-41	PAIR	4,5 A-10	H	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-42	PAIR	7,8, A-10	H	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-43	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-44	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-45	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-46	PAIR	1,2,3 A-10	G	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-47	PAIR	1,2,3 A-10	G	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-48	1	1,2,3 A-10	D	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-49	PAIR	4,5 A-10	H	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-50	PAIR	4,5 A-10	H	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-51	PAIR	4,5 A-10	H	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-52	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-53	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-54	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-55	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-56	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-57	PAIR	2,4,6 A-13	A	3'-0"	7'-0"		A	2"X4"	
D-58	PAIR	2,4,6 A-13	A	3'-0"	7'-0"		A	2"X4"	
D-59	PAIR	2,4,6 A-13	A	3'-0"	7'-0"		A	2"X4"	
D-60	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-61	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-62	1	1,2,3 A-10	D	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-63	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	INSTALL 24"X24" LOUVER @ BOTTOM
D-64	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-65	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-66	1	1,2,3 A-10	D	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-67	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-68	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-69	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-70	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-71	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-72	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-73	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-74	1	7,8, A-10	E	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	INSTALL 24"X24" LOUVER @ BOTTOM
D-75	1	1,2,3 A-10	D	3'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-76	1	9 A-10	E	4'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-77	1	9 A-10	E	4'-0"	7'-0"	1-3/4"	B	2"X5-3/4"	
D-78	1	SIMILAR TO 15,16 A-11	A	4'-0"	7'-0"		A	2"X4"	
D-80									
RCD-1	1	13,14,15 A-10	I	6'-0"	6'-3"				
RCD-2	1	10,11,12 A-10	I	8'-0"	4'-4"				
GATE-1		7,8 A-11							

Sheet A-9 - Door Schedule

Door D-80 shall be Type H Hollow Metal Doors with a Hollow Metal Frame - 30 x 79 doors.

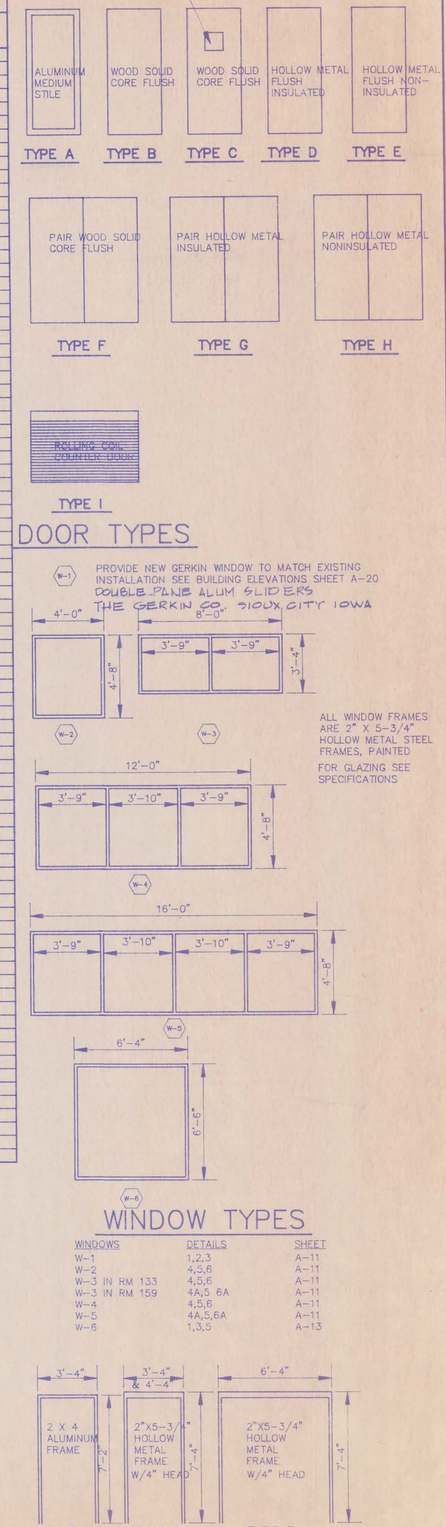
Sheet A-9 - Room Finish Schedule

Add Mezzanine Level as shown on Sheet A-4 Rooms M-100, M-101

Floors shall be sealed concrete
All masonry walls shall be painted.

GYMNASIUM FLOOR PAINTING

GAME LINES FOR REGULATION BASKETBALL COMPETITION COURT, REGULATION VOLLEYBALL COURT
GAME LINES FOR PRACTICE BASKETBALL COURT AND PRACTICE VOLLEYBALL COURTS
PROVIDE A SCRIPT STYLE "CAMBRIDGE TROJANS"2 LOCATIONS AS DIRECTED BY THE ARCHITECT
SEE THE EXISTING GYM FLOOR FOR LETTERING STYLE AND DUPLICATE FOR THE
NEW GYM FLOOR. GAME LINE COLORS SHALL ALSO BE DUPLICATED



DOOR TYPES

ALL WINDOW FRAMES ARE 2" X 5-3/4" HOLLOW METAL STEEL FRAMES, PAINTED

FOR GLAZING SEE SPECIFICATIONS

WINDOW TYPES

WINDOWS	DETAILS	SHEET
W-1	1,2,3	A-11
W-2	4,5,6	A-11
W-3 IN RM 133	4,5,6	A-11
W-3 IN RM 159	4A,5 6A	A-11
W-4	4,5,6	A-11
W-5	4A,5,6A	A-11
W-6	1,3,5	A-13

FRAME TYPES

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

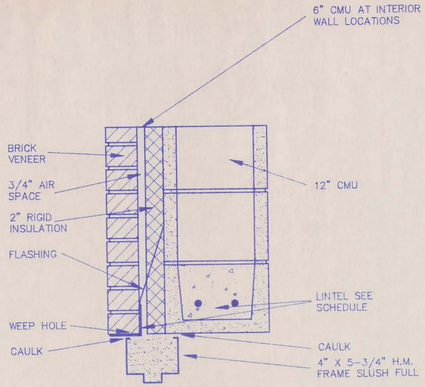
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

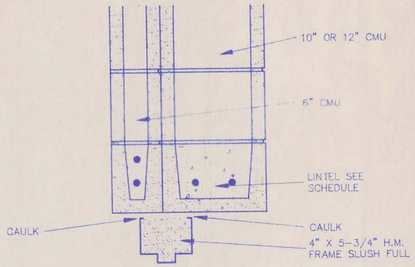
NO.	DATE

A-9

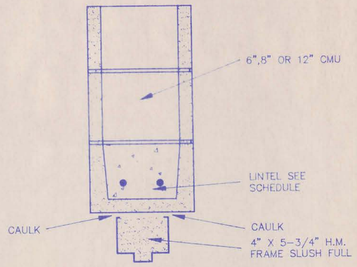
DATE: SEPTEMBER, 1991



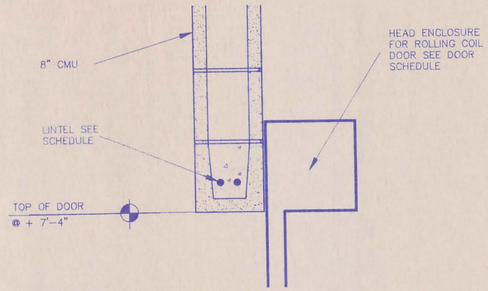
1 HEAD
SCALE: 1-1/2"= 1'-0"



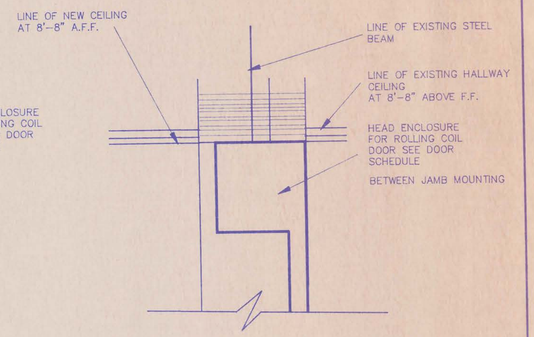
4 HEAD
SCALE: 1-1/2"= 1'-0"



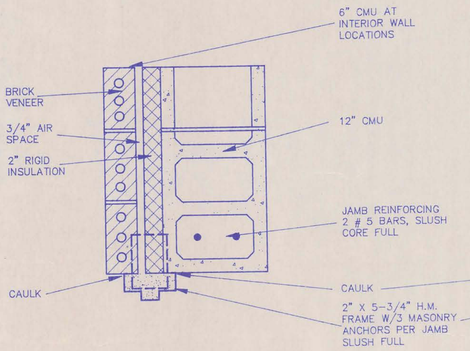
7 HEAD
SCALE: 1-1/2"= 1'-0"



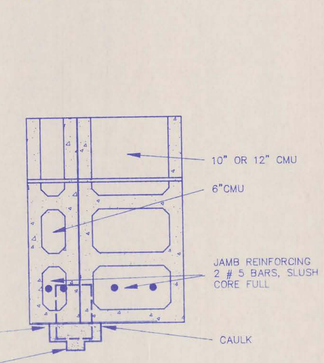
10 HEAD
SCALE: 1-1/2"= 1'-0"



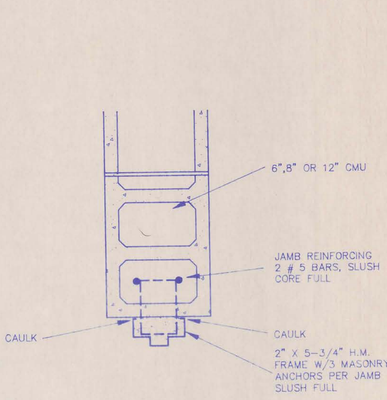
13 HEAD
SCALE: 1-1/2"= 1'-0"



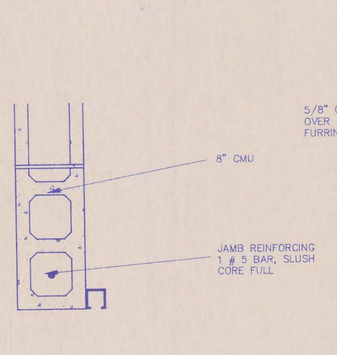
2 JAMB
SCALE: 1-1/2"= 1'-0"



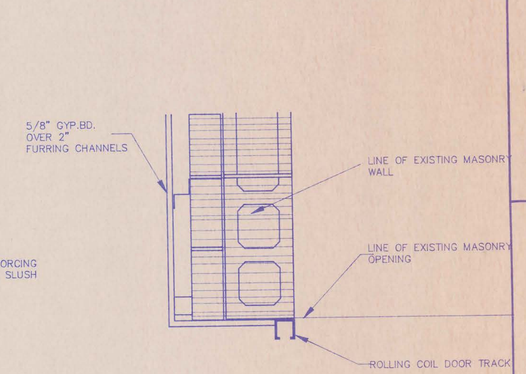
5 JAMB
SCALE: 1-1/2"= 1'-0"



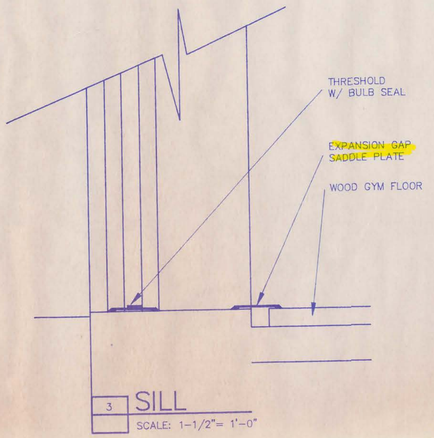
8 JAMB
SCALE: 1-1/2"= 1'-0"



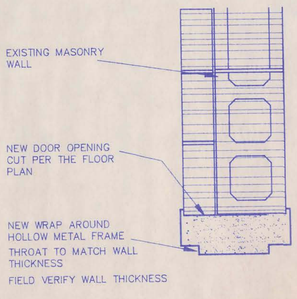
11 JAMB
SCALE: 1-1/2"= 1'-0"



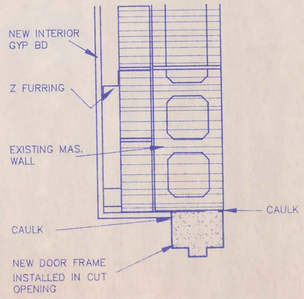
14 JAMB
SCALE: 1-1/2"= 1'-0"



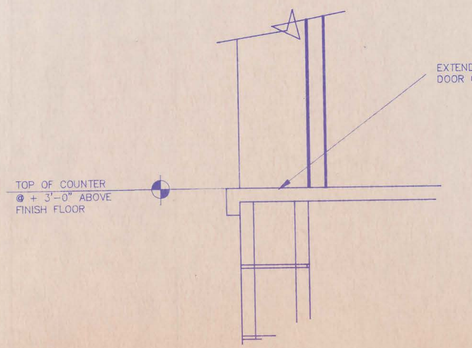
3 SILL
SCALE: 1-1/2"= 1'-0"



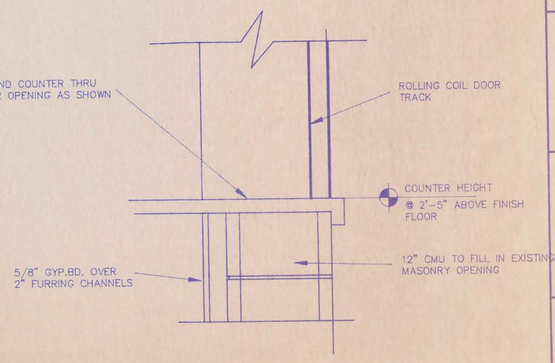
9 HEAD
SCALE: 1-1/2"= 1'-0"
JAMB SIMILAR



9A HEAD
SCALE: 1-1/2"= 1'-0"
JAMB SIMILAR



12 SILL
SCALE: 1-1/2"= 1'-0"



15 SILL
SCALE: 1-1/2"= 1'-0"

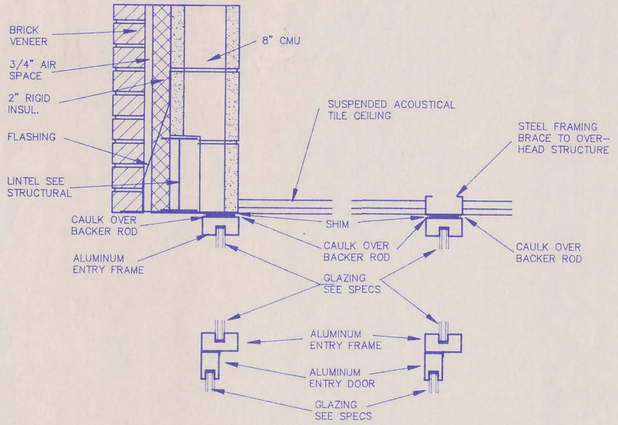
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

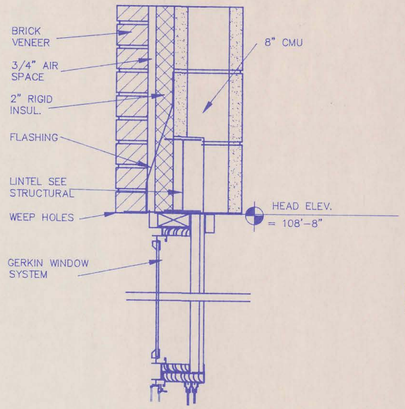
A-10

DATE: SEPTEMBER, 1991

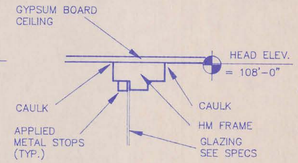


15 EXTERIOR HEAD
SCALE: 1-1/2"= 1'-0"

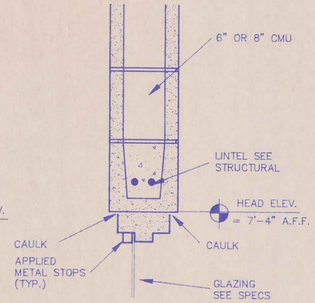
15A INTERIOR HEAD
SCALE: 1-1/2"= 1'-0"



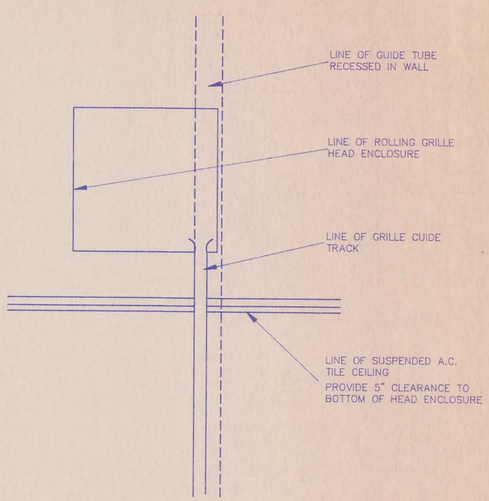
1 HEAD
SCALE: 1-1/2"= 1'-0"



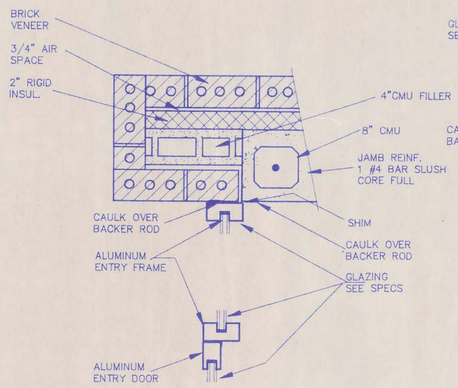
4A HEAD
SCALE: 1-1/2"= 1'-0"



4 HEAD
SCALE: 1-1/2"= 1'-0"

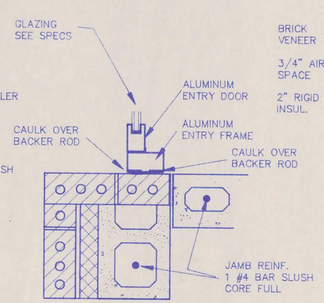


7 HEAD ROLLING GRILLE
SCALE: 1-1/2"= 1'-0"

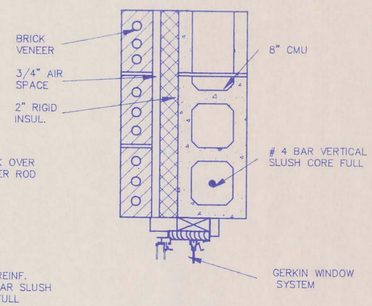


16 JAMB AT SIDELITE
SCALE: 1-1/2"= 1'-0"

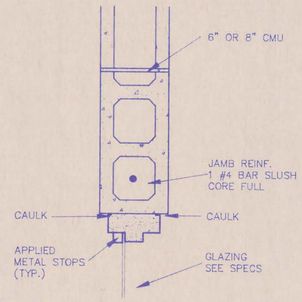
EXTERIOR ENTRY FRAME AND DOOR SHOWN. INTERIOR FRAME AND DOOR SIMILAR



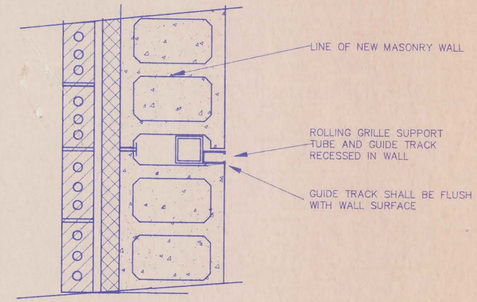
16A JAMB AT DOOR
SCALE: 1-1/2"= 1'-0"



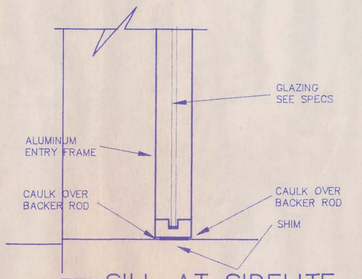
2 JAMB
SCALE: 1-1/2"= 1'-0"



5 JAMB
SCALE: 1-1/2"= 1'-0"

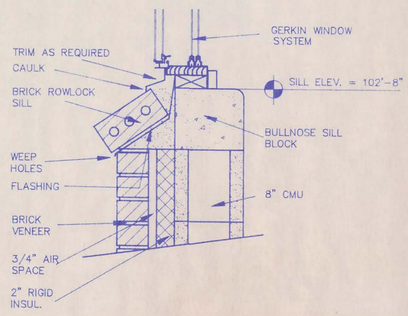


8 JAMB ROLLING GRILLE
SCALE: 1-1/2"= 1'-0"

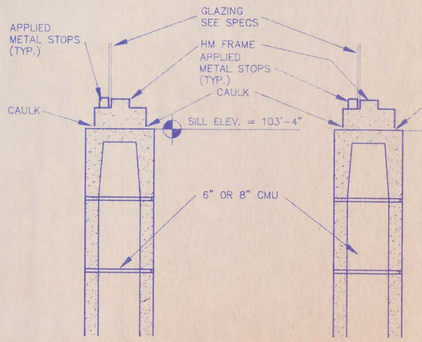


17 SILL AT SIDELITE
SCALE: 1-1/2"= 1'-0"

SILL AT DOOR IS SIMILAR, PROVIDE THRESHOLD AND SWEEPSEAL BY DOOR MANUFACTURER

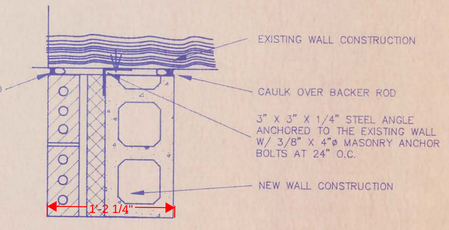


3 SILL
SCALE: 1-1/2"= 1'-0"



6A SILL
SCALE: 1-1/2"= 1'-0"

6 SILL
SCALE: 1-1/2"= 1'-0"



9 WALL CONNECTION DETAIL
SCALE: 1-1/2"= 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

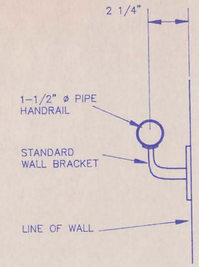
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

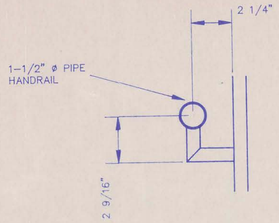
REVISIONS

NO.	DATE

A-11

DATE: SEPTEMBER, 1991



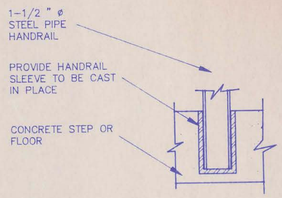


BD-1 BRACKET DETAIL

SCALE: 3" = 1'-0"

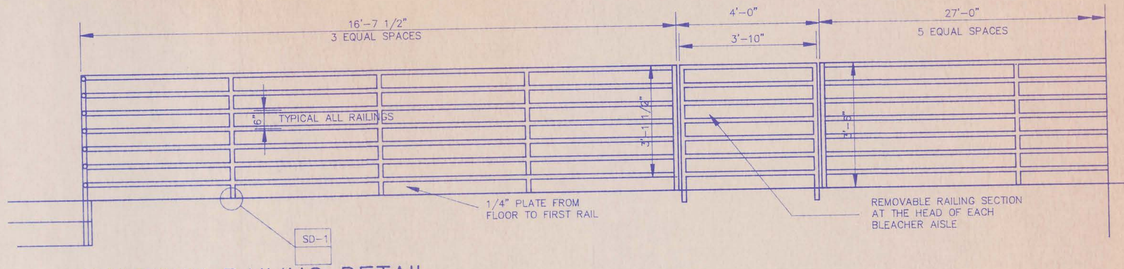
BD-2 BRACKET DETAIL

SCALE: 3" = 1'-0"



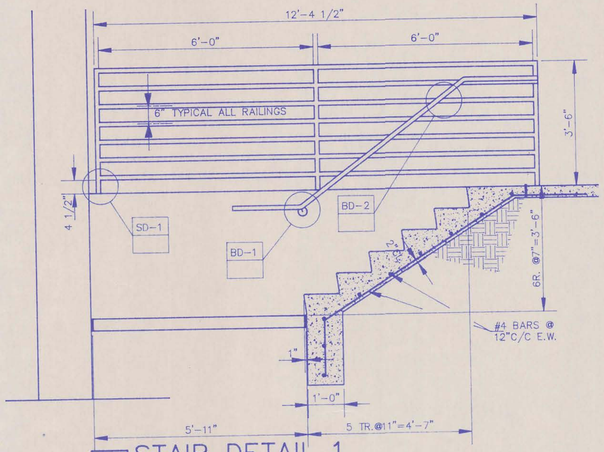
SD-1 INSERT SLEEVE DETAIL

SCALE: 3" = 1'-0"



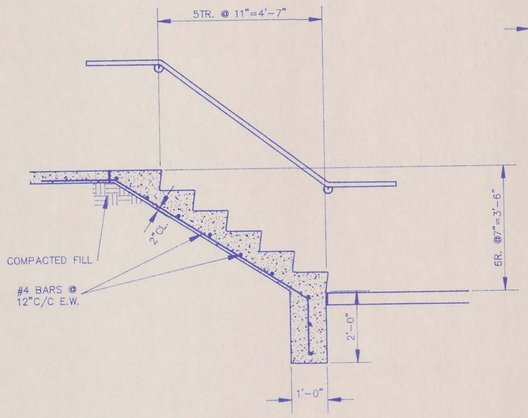
BALCONY RAILING DETAIL

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



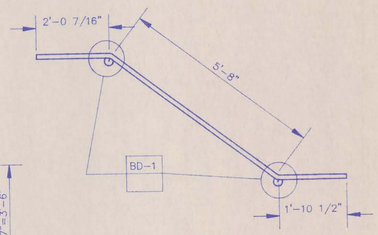
SD-1 STAIR DETAIL 1

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



SD-2 STAIR DETAIL 2

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

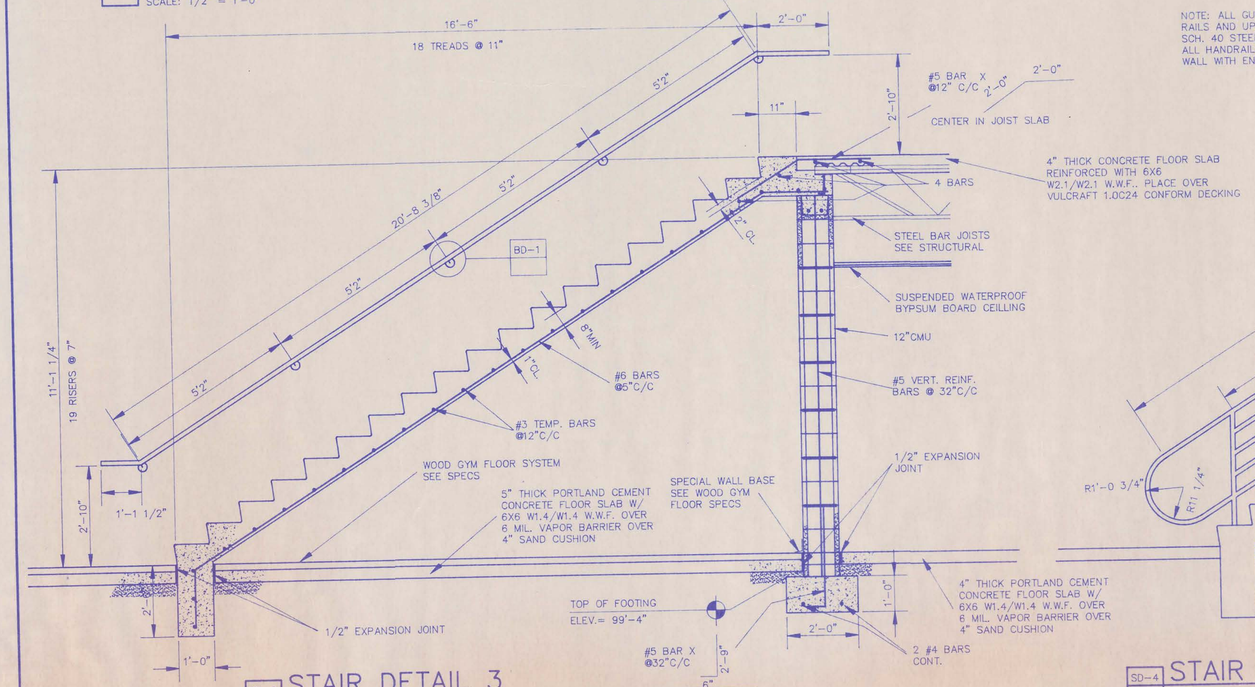


RD-1 TYPICAL RAILING DETAIL

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

BG-1 BLEACHER GATE DETAIL

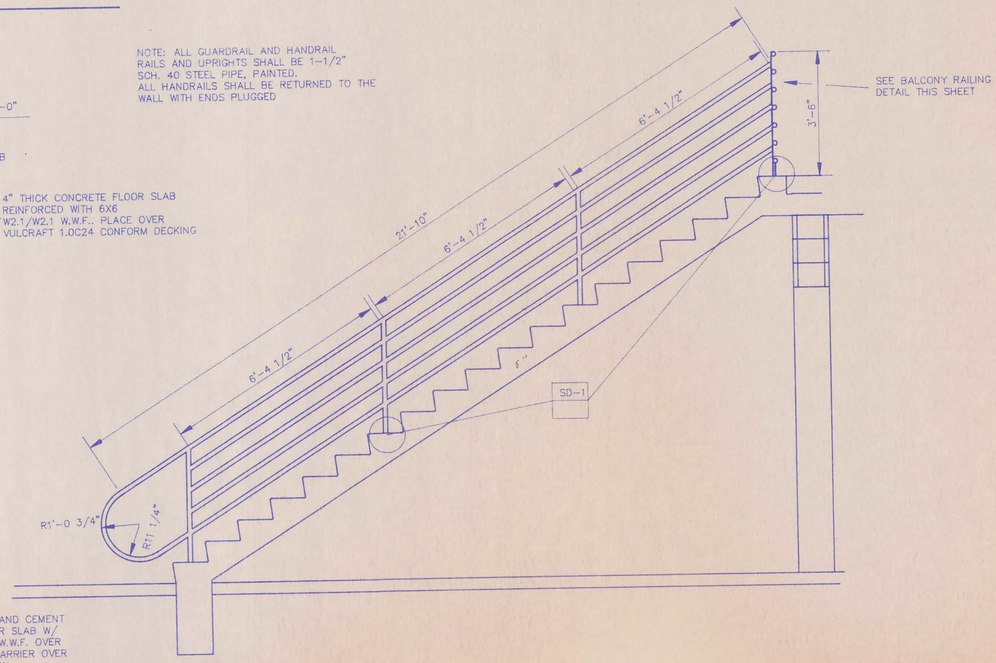
SCALE: 1/2" = 1'-0"



SD-3 STAIR DETAIL 3

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

NOTE: ALL GUARDRAIL AND HANDRAIL RAILS AND UPRIGHTS SHALL BE 1-1/2" SCH. 40 STEEL PIPE, PAINTED. ALL HANDRAILS SHALL BE RETURNED TO THE WALL WITH ENDS PLUGGED



SD-4 STAIR DETAIL4

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

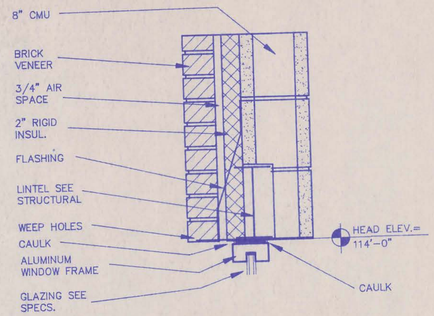
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

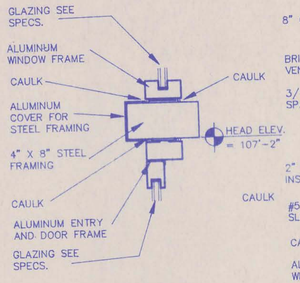
NO.	DATE

A-12

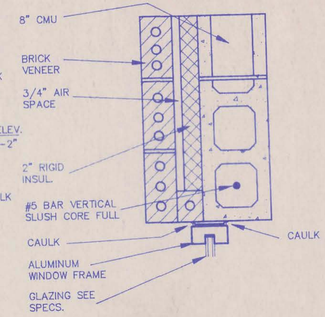
DATE: SEPTEMBER, 1991



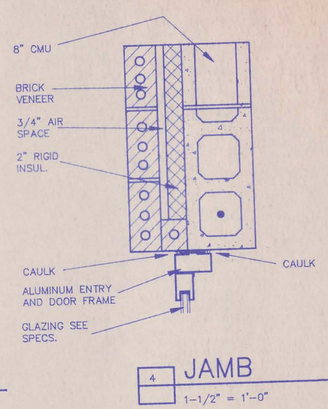
1 HEAD
1-1/2" = 1'-0"



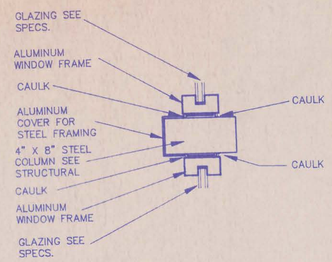
2 HEAD
1-1/2" = 1'-0"



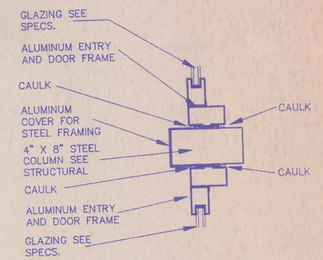
3 JAMB
1-1/2" = 1'-0"



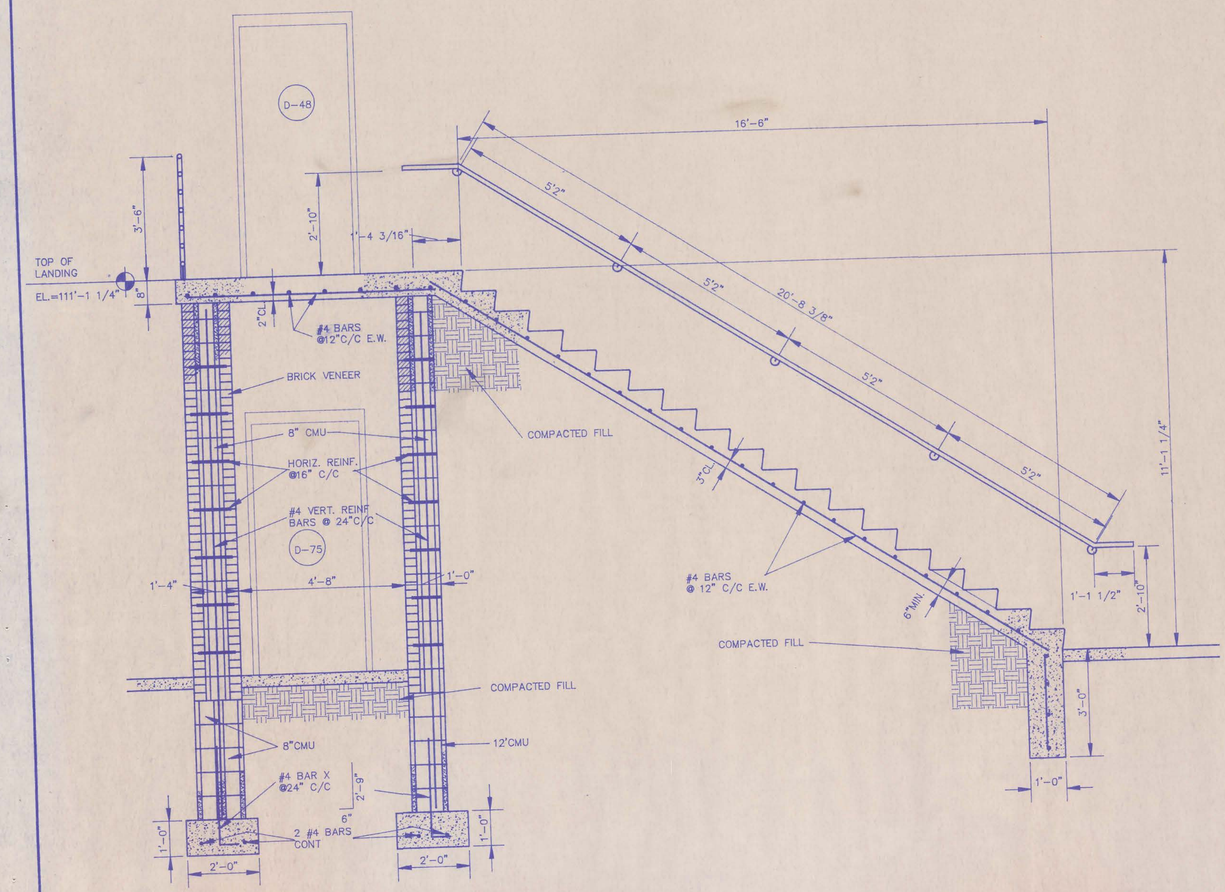
4 JAMB
1-1/2" = 1'-0"



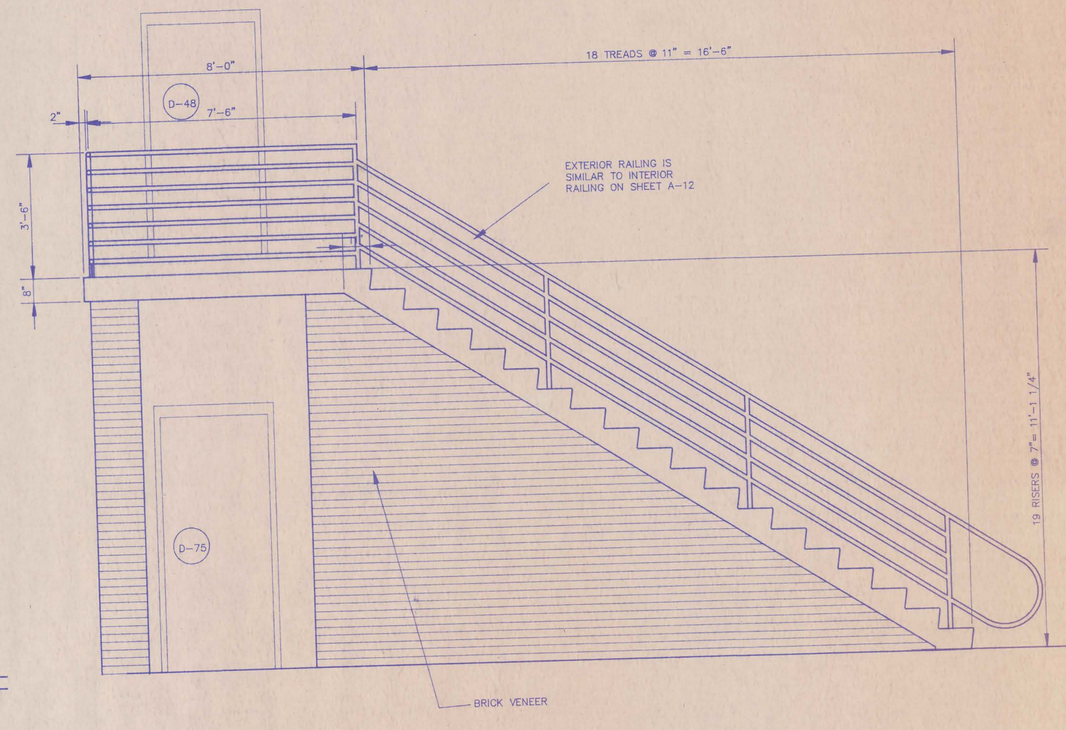
5 MULLION
1-1/2" = 1'-0"



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



SD-5 STAIR DETAIL 5
SCALE: 1/2" = 1'-0"



WEST ELEVATION – EXTERIOR STAIR
SCALE: 1/2" = 1'-0"

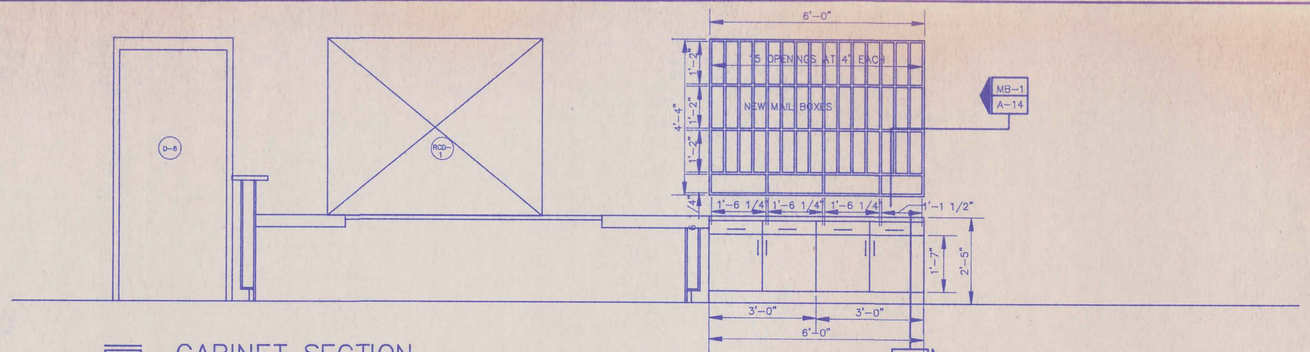
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

A-13

DATE: SEPTEMBER, 199

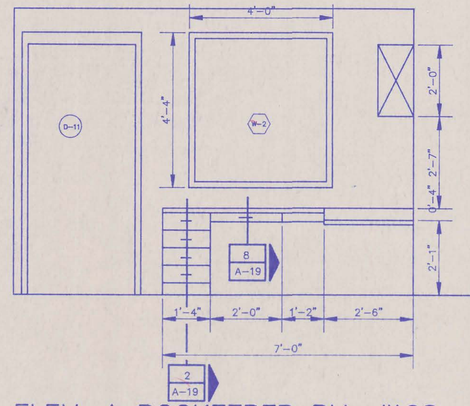


CAB-1 CABINET SECTION

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

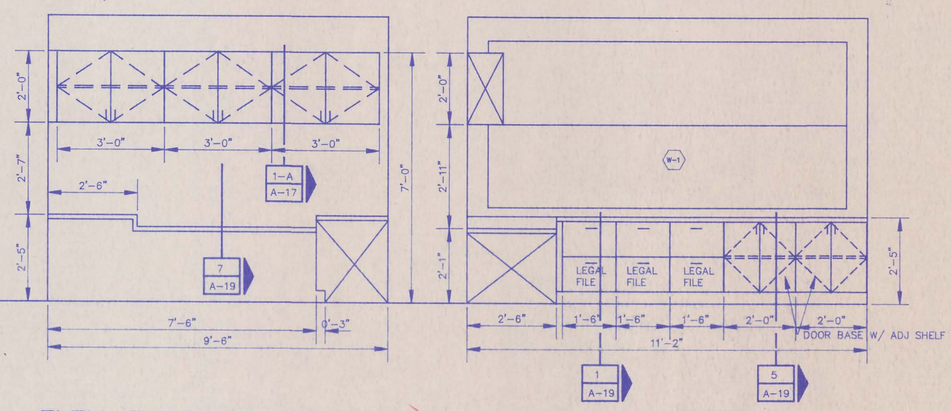
ELEV. A RM #104

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



ELEV. A BOOKEEPER RM. #108

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

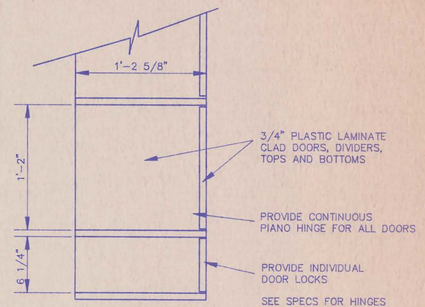


ELEV. B BOOKEEPER RM. #108

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

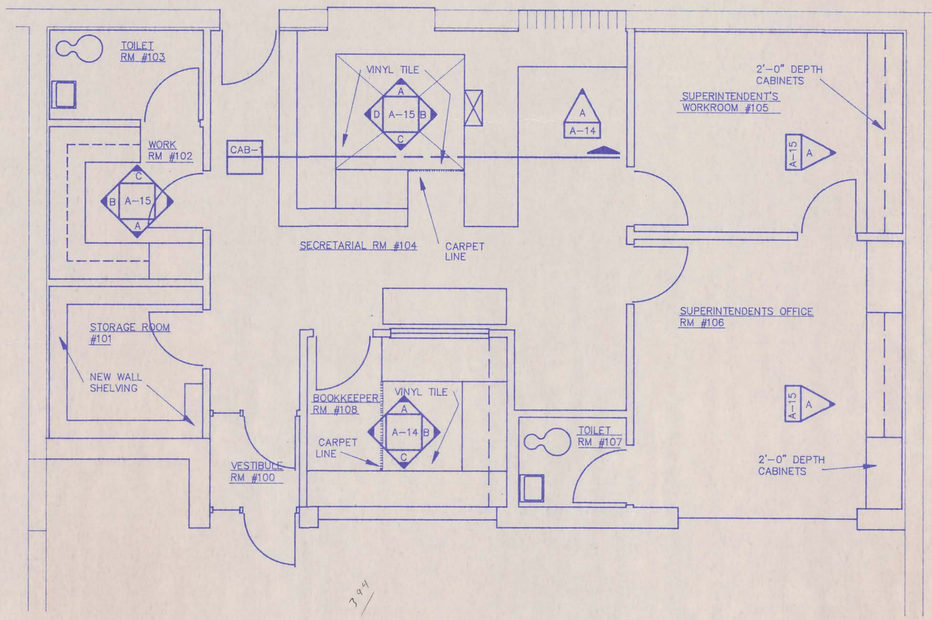
ELEV. C BOOKEEPER RM. #108

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

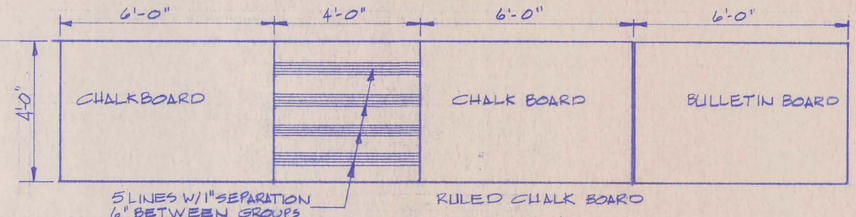


MB-1 MAIL BOX DETAIL

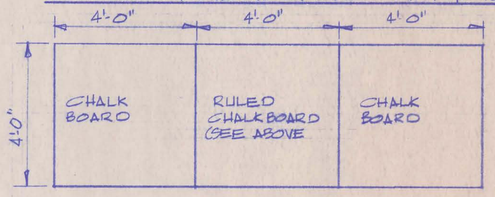
SCALE: 1-1/2" = 1'-0"



ADMIN AREA FLOOR PLAN – CABINETS, COUNTERS & SHELVES



MUSIC CHALKBOARD RM # 128



MUSIC CHALK BOARD RM # 127

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	DATE

A-14

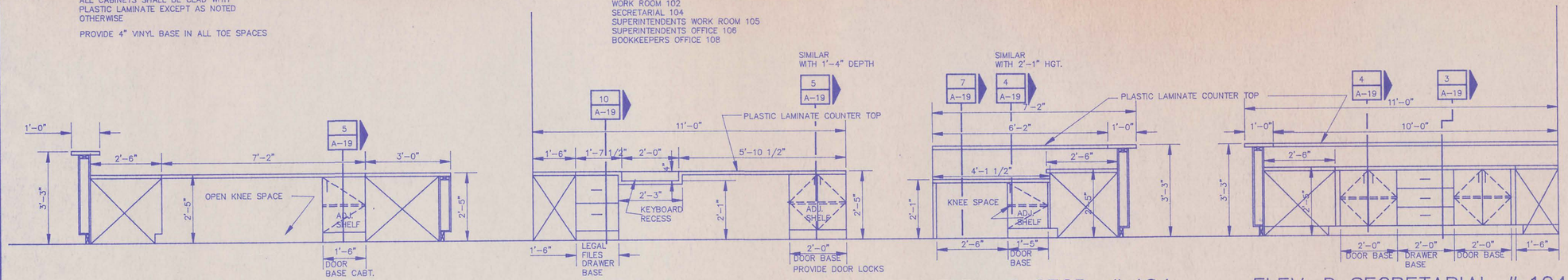
DATE: SEPTEMBER, 1991

STANDARDBLUE, OMAHA

NOTE:
ALL CABINETS SHALL BE CLAD WITH PLASTIC LAMINATE EXCEPT AS NOTED OTHERWISE

PROVIDE 4" VINYL BASE IN ALL TOE SPACES

NOTE: IN THE FOLLOWING ROOMS PROVIDE WOOD VENEERED CABINET SURFACES
WORK ROOM 102
SECRETARIAL 104
SUPERINTENDENTS WORK ROOM 105
SUPERINTENDENTS OFFICE 106
BOOKKEEPERS OFFICE 108

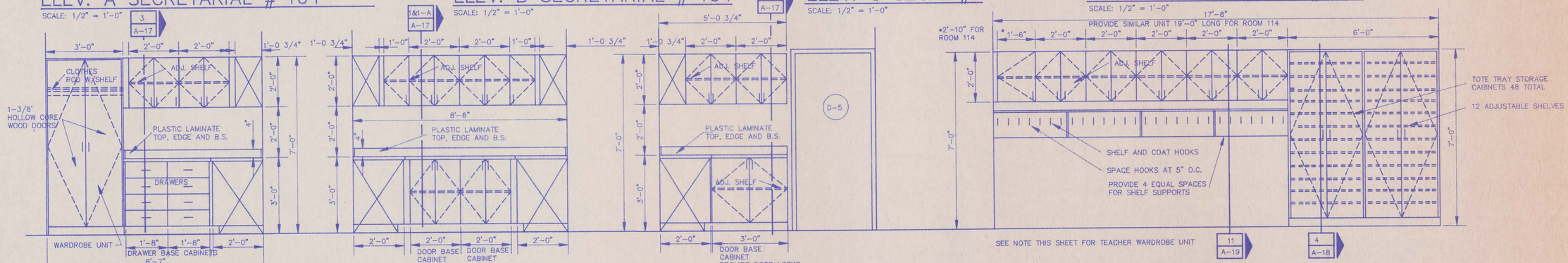


ELEV. A SECRETARIAL # 104
SCALE: 1/2" = 1'-0"

ELEV. B SECRETARIAL # 104
SCALE: 1/2" = 1'-0"

ELEV. C SECR. # 104
SCALE: 1/2" = 1'-0"

ELEV. D SECRETARIAL # 104
SCALE: 1/2" = 1'-0"

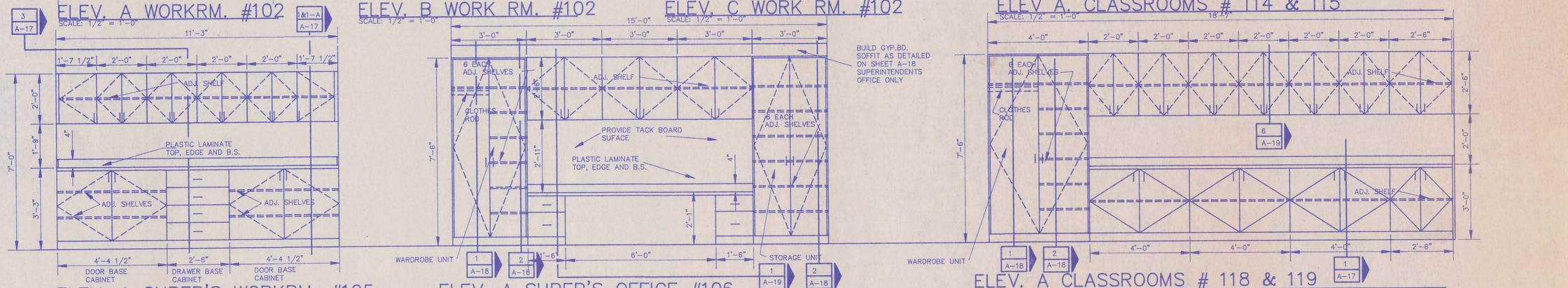


ELEV. A WORKRM. #102
SCALE: 1/2" = 1'-0"

ELEV. B WORK RM. #102
SCALE: 1/2" = 1'-0"

ELEV. C WORK RM. #102
SCALE: 1/2" = 1'-0"

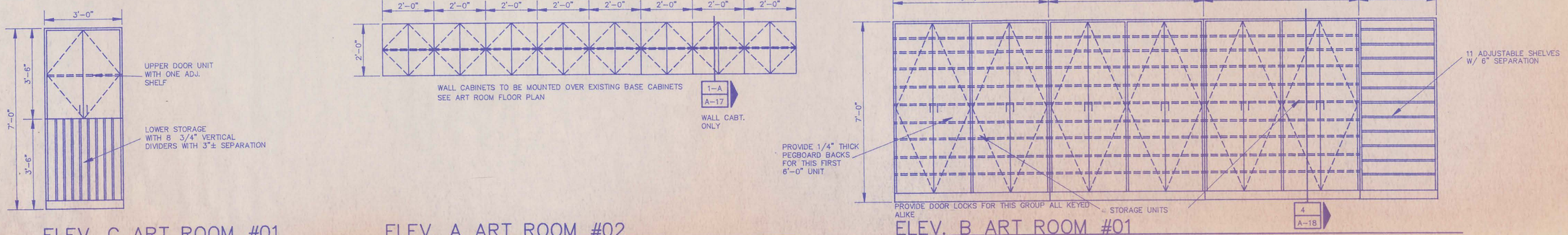
ELEV A. CLASSROOMS # 114 & 115
SCALE: 1/2" = 1'-0"



ELEV. A SUPER'S WORKRM. #105
SCALE: 1/2" = 1'-0"

ELEV. A SUPER'S OFFICE #106
SCALE: 1/2" = 1'-0"

ELEV. A CLASSROOMS # 118 & 119
SCALE: 1/2" = 1'-0"



ELEV. C ART ROOM #01
SCALE: 1/2" = 1'-0"

ELEV. A ART ROOM #02
SCALE: 1/2" = 1'-0"

ELEV. B ART ROOM #01
SCALE: 1/2" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

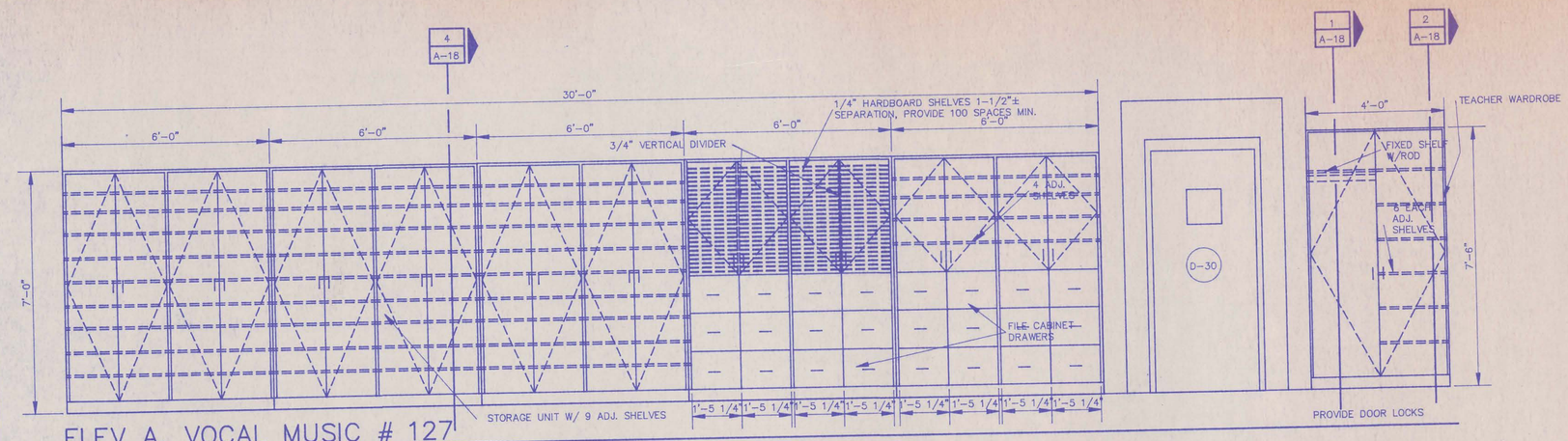
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

A-15

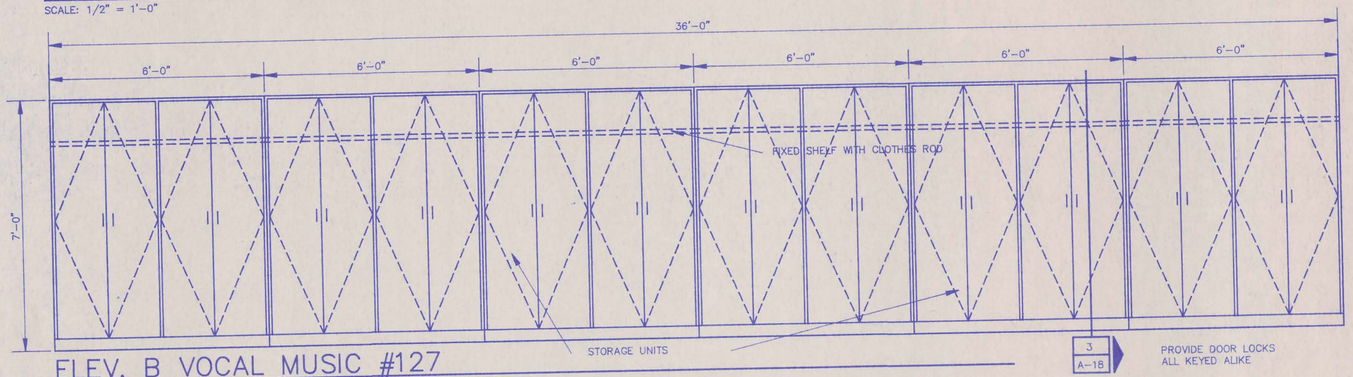
DATE: SEPTEMBER, 1991

STANDARDBLUE, OMAHA



ELEV A. VOCAL MUSIC # 127

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



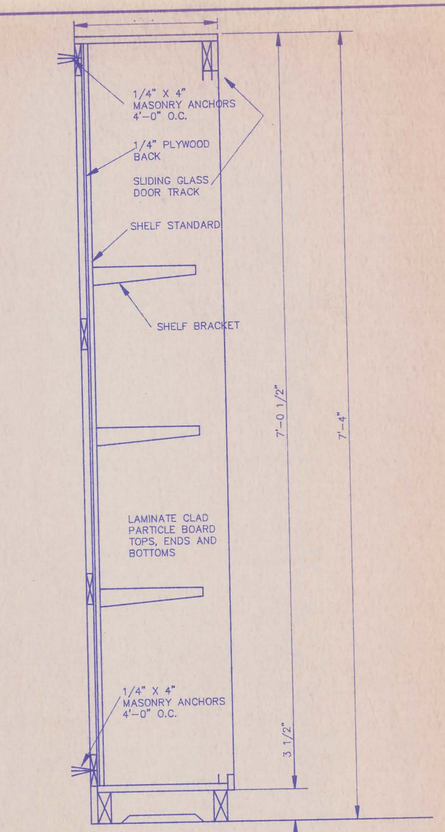
ELEV. B VOCAL MUSIC #127

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

NOTE: PROVIDE ADDITIONAL TEACHER WARDROBE UNITS NOT SHOWN ON ELEVATIONS OR PLANS AS FOLLOWS.

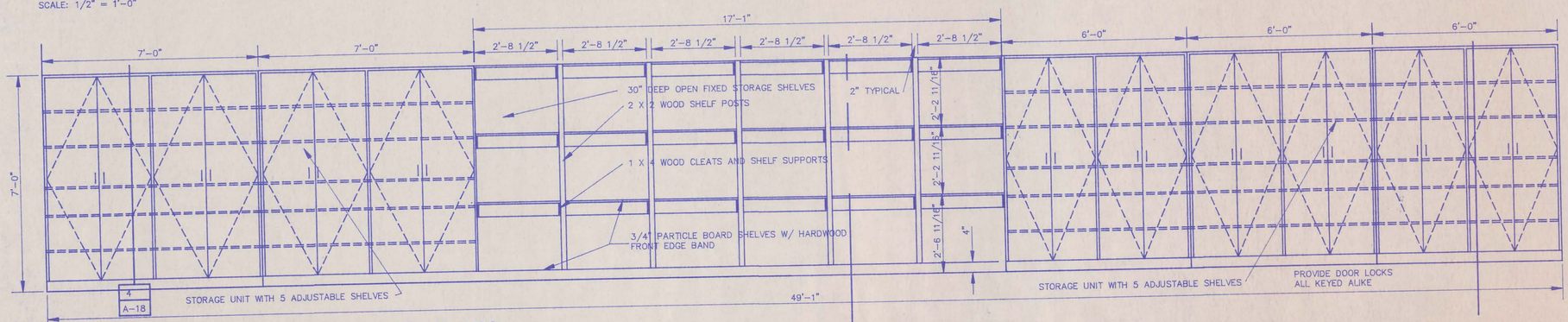
ROOM NO.	QUANTITY
114	1 EACH
115	1 EACH

PROVIDE DOOR LOCKS



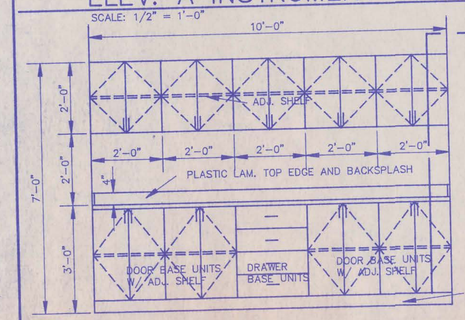
1 A-18 TROPHY CASE SECTION

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



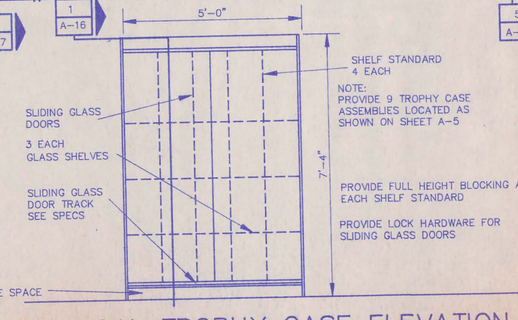
ELEV. A INSTRUMENT STORAGE # 130

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



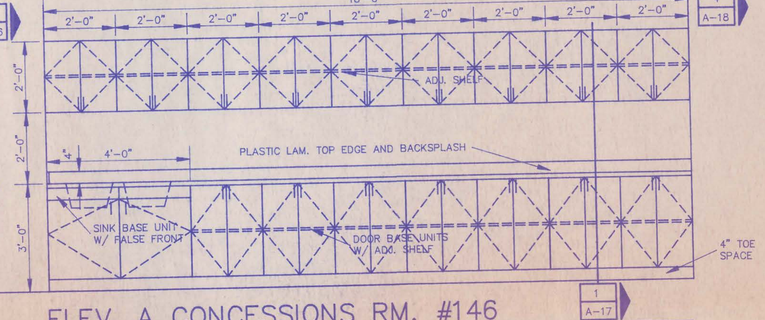
ELEV. A OFFICE #133

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



TYPICAL TROPHY CASE ELEVATION

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



ELEV. A CONCESSIONS RM. #146

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

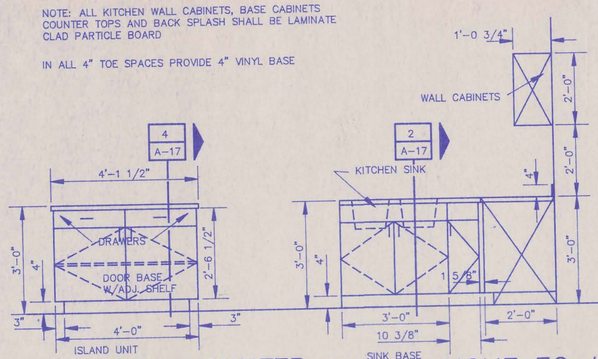
No.	DATE

A-16

DATE: SEPTEMBER, 1991

NOTE: ALL KITCHEN WALL CABINETS, BASE CABINETS COUNTER TOPS AND BACK SPLASH SHALL BE LAMINATE CLAD PARTICLE BOARD

IN ALL 4" TOE SPACES PROVIDE 4" VINYL BASE

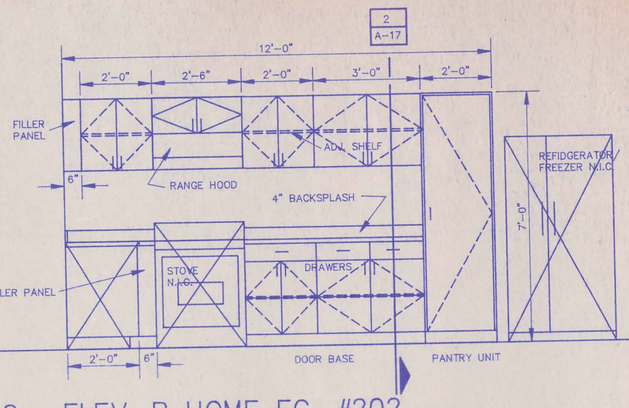


TYP. ISLAND COUNTER ELEVATION #202

SCALE: 1/2" = 1'-0

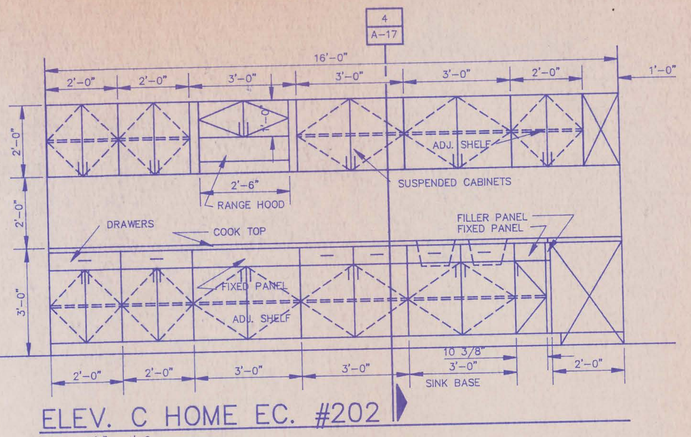
ELEV. A HOME EC. #202

SCALE: 1/2" = 1'-0



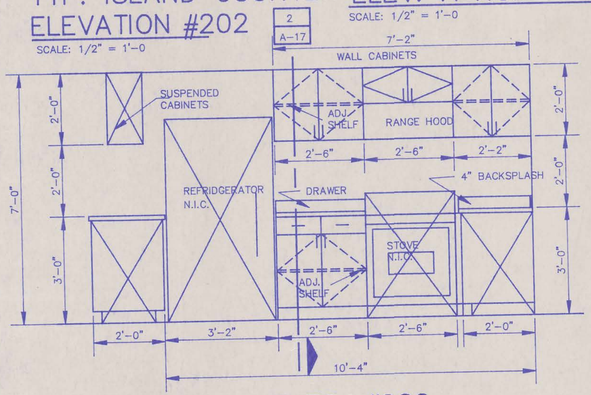
ELEV. B HOME EC. #202

SCALE: 1/2" = 1'-0



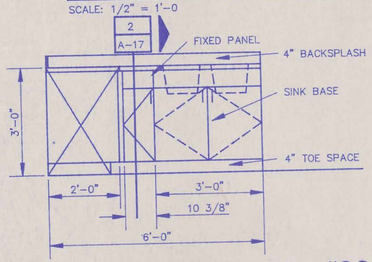
ELEV. C HOME EC. #202

SCALE: 1/2" = 1'-0



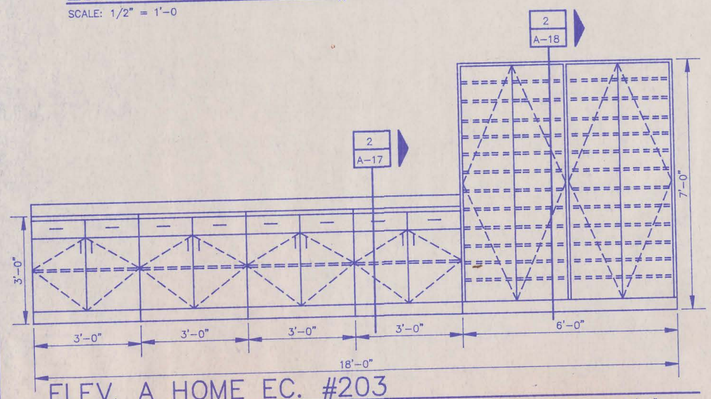
ELEV. D HOME EC. #202

SCALE: 1/2" = 1'-0



ELEV. E HOME EC. #202

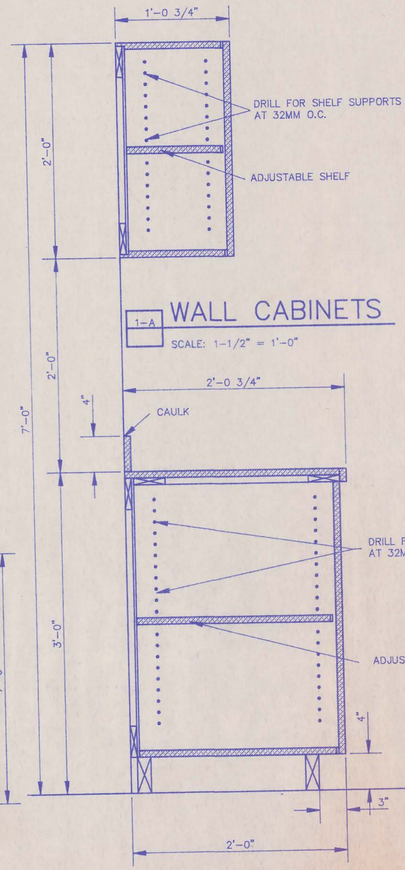
SCALE: 1/2" = 1'-0



ELEV. A HOME EC. #203

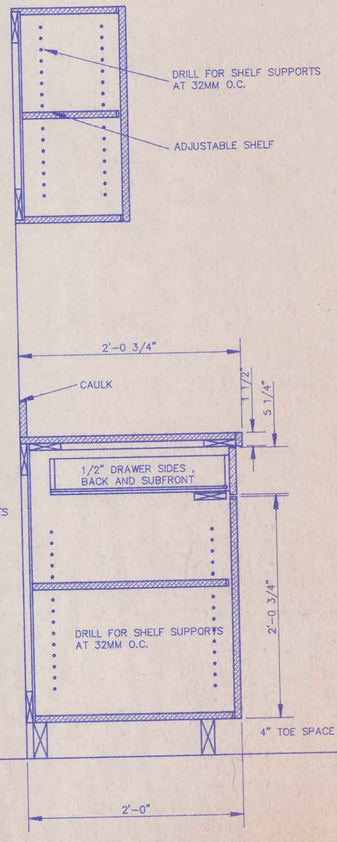
SCALE: 1/2" = 1'-0

NOTE: PROVIDE 2 6'-0" WIDE X 7'-0" HIGH X 2'-0" DEEP FOR THE EAST WALL OF ROOM #203 & SOUTH WALL RM 201



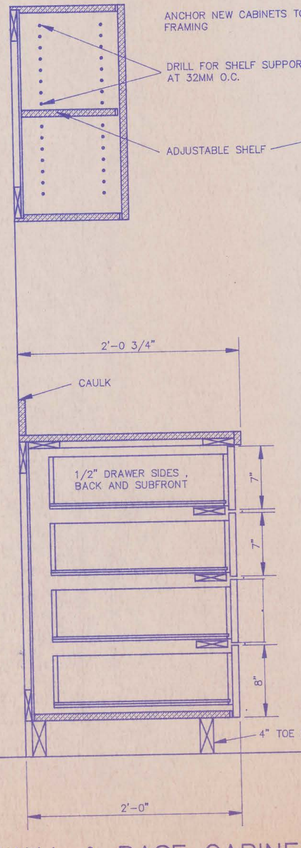
1-A WALL CABINETS

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



2 WALL & BASE CABINETS

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



3 WALL & BASE CABINETS

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

4 PENINSULA WALL & BASE CABINETS

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

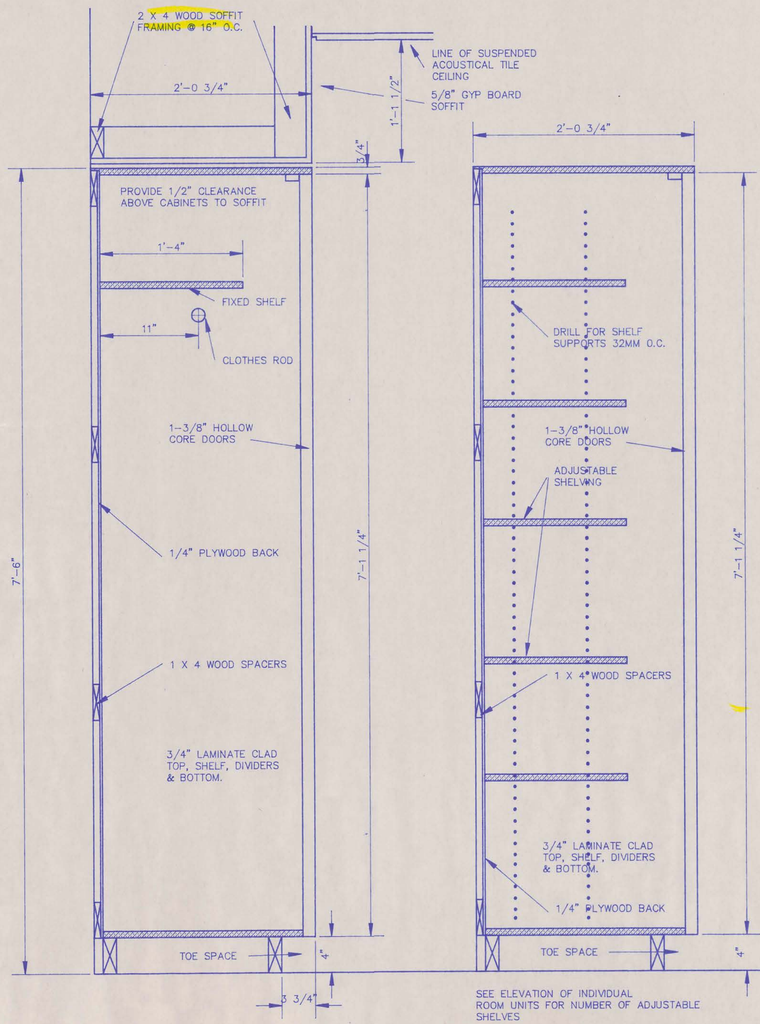
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-17

DATE: SEPTEMBER, 1993

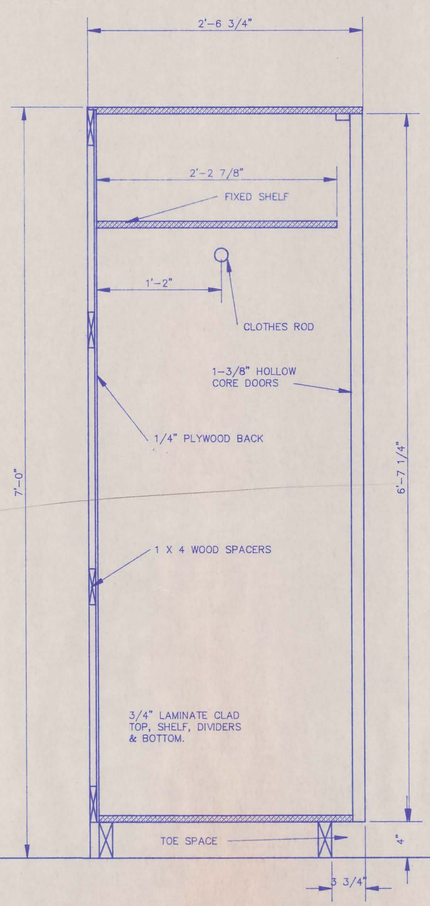


1 SUPT'S WARDROBE UNIT

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

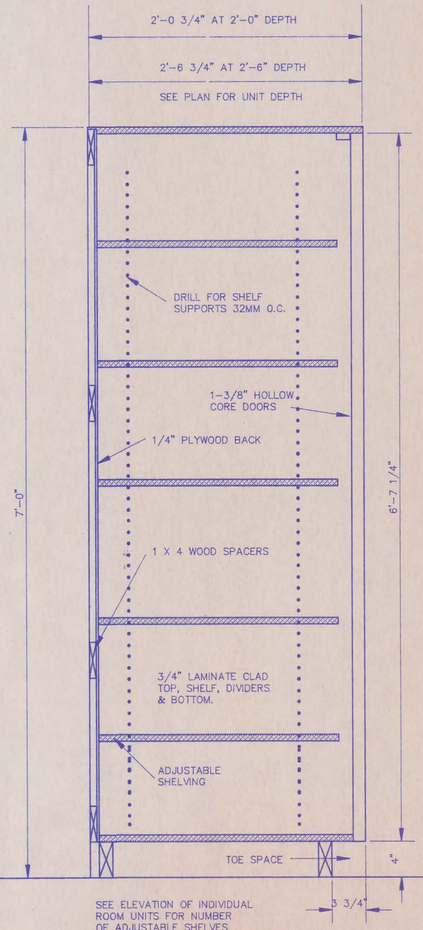
2 SUPT'S STORAGE UNIT

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



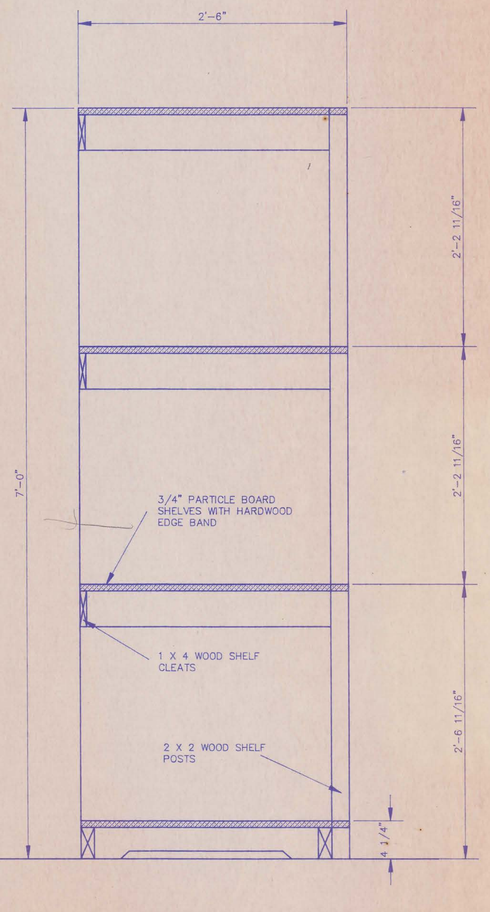
3 ROBE STORAGE UNIT

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



4 STORAGE UNIT WITH SHELVES

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



5 OPEN SHELVING

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

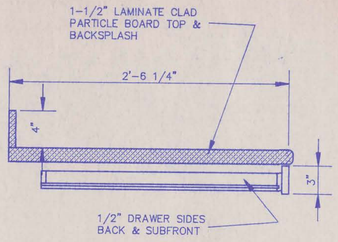
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-18

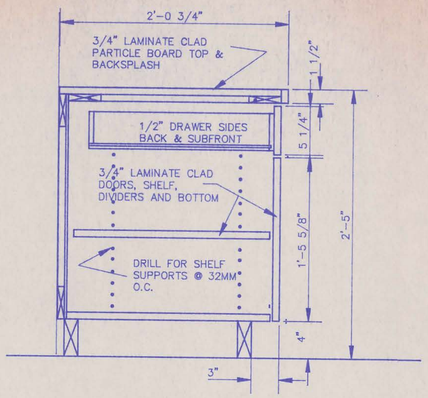
DATE: SEPTEMBER, 1991



COUNTER TOP W/ PENCIL DRAWER

8

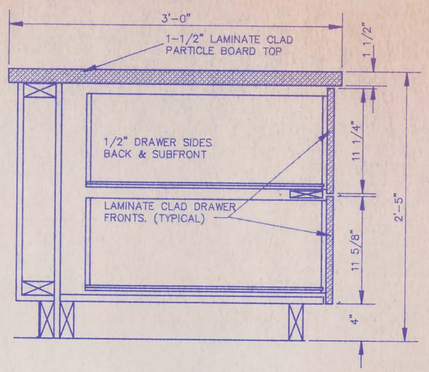
SCALE: 1-1/2" = 1'-0"



DOOR & DRAWER BASE

9

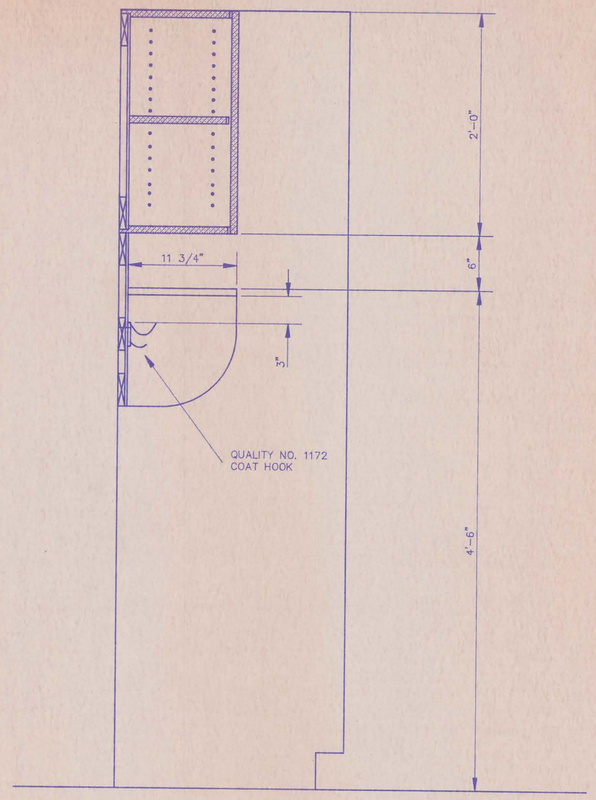
SCALE: 1-1/2" = 1'-0"



DEEP DRAWER BASE

10

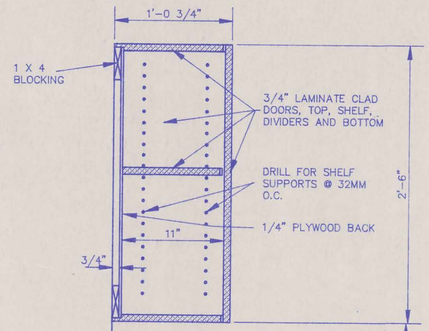
SCALE: 1-1/2" = 1'-0"



SHELF AND COAT HOOK DETAIL

11

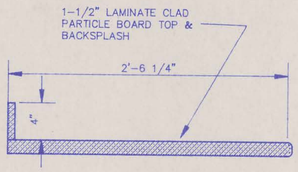
SCALE: 1-1/2" = 1'-0"



WALL CABINET

6

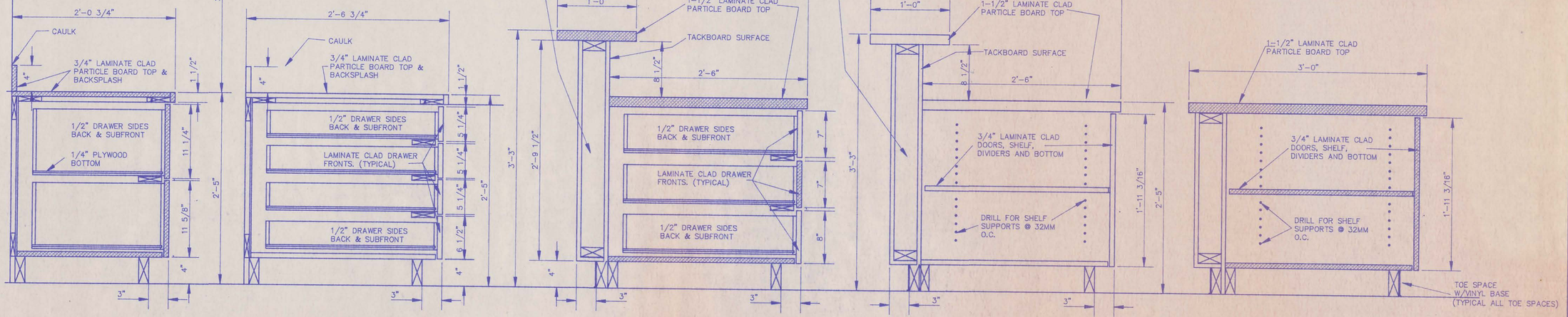
SCALE: 1-1/2" = 1'-0"



COUNTER TOP

7

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



DRAWER BASE

1

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

DRAWER BASE

2

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

COUNTER & DRAWER BASE

3

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

COUNTER & DOOR BASE

4

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

DEEP DOOR BASE

5

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

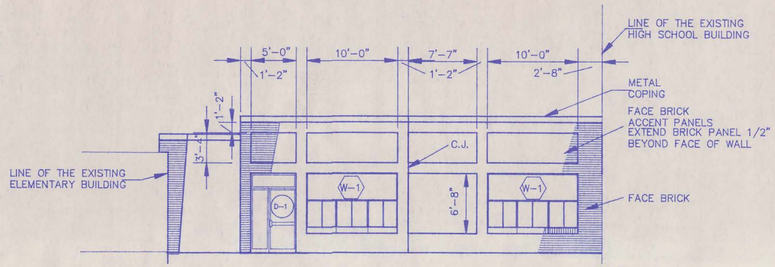
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

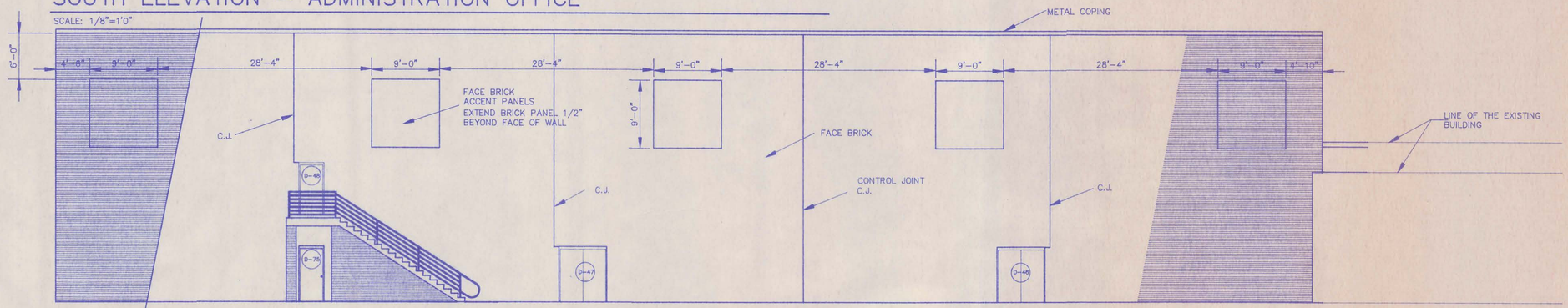
A-19

DATE: SEPTEMBER, 1991



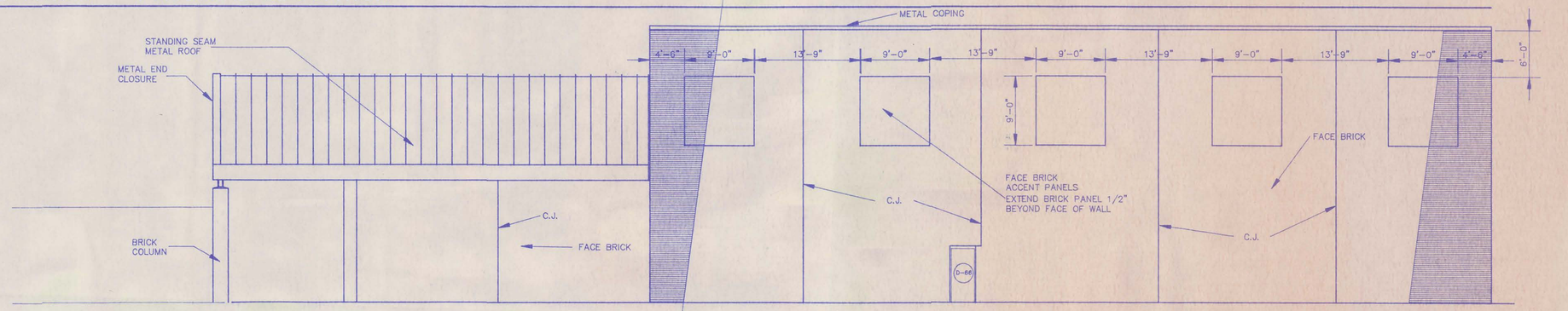
SOUTH ELEVATION – ADMINISTRATION OFFICE

SCALE: 1/8"=1'0"



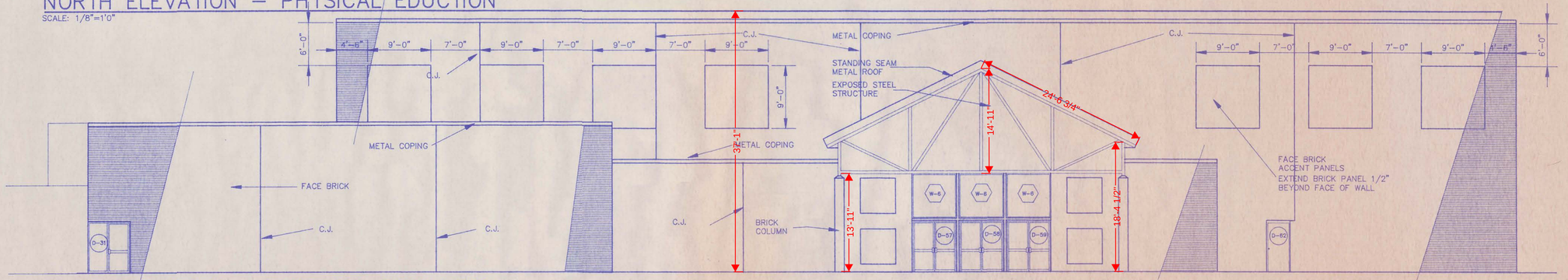
WEST ELEVATION – PHYSICAL EDUCATION

SCALE: 1/8"=1'0"



NORTH ELEVATION – PHYSICAL/ EDUCTION

SCALE: 1/8"=1'0"



EAST ELEVATION – PHYSICAL EDUCATION

SCALE: 1/8"=1'0"

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

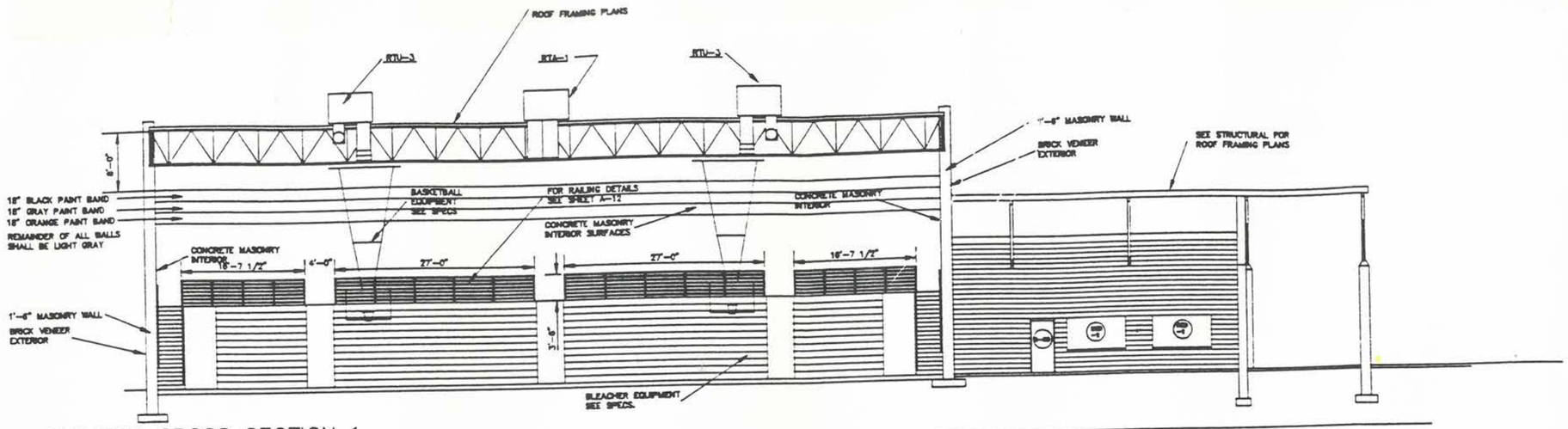
REVISIONS

NO.	DATE

A-20

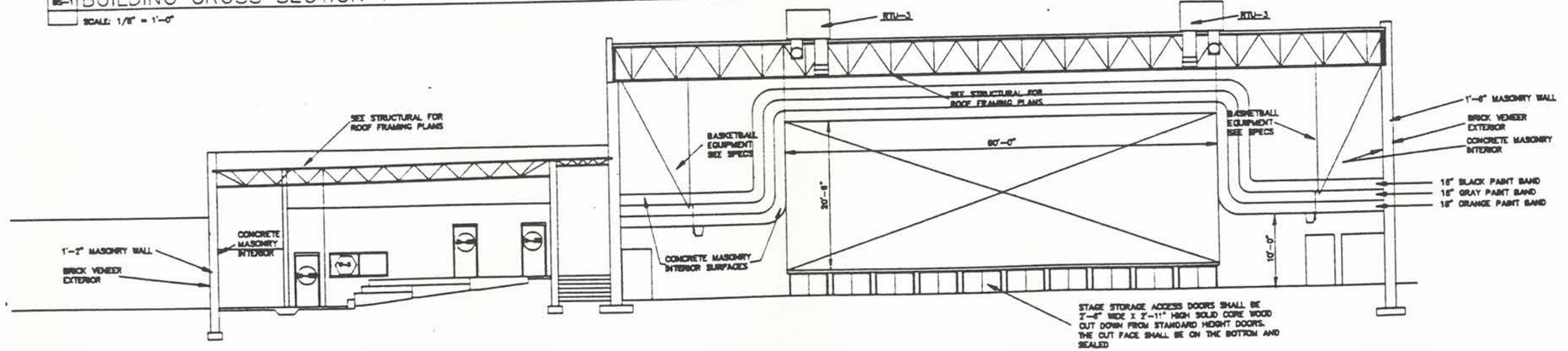
DATE: SEPTEMBER, 4991

540298



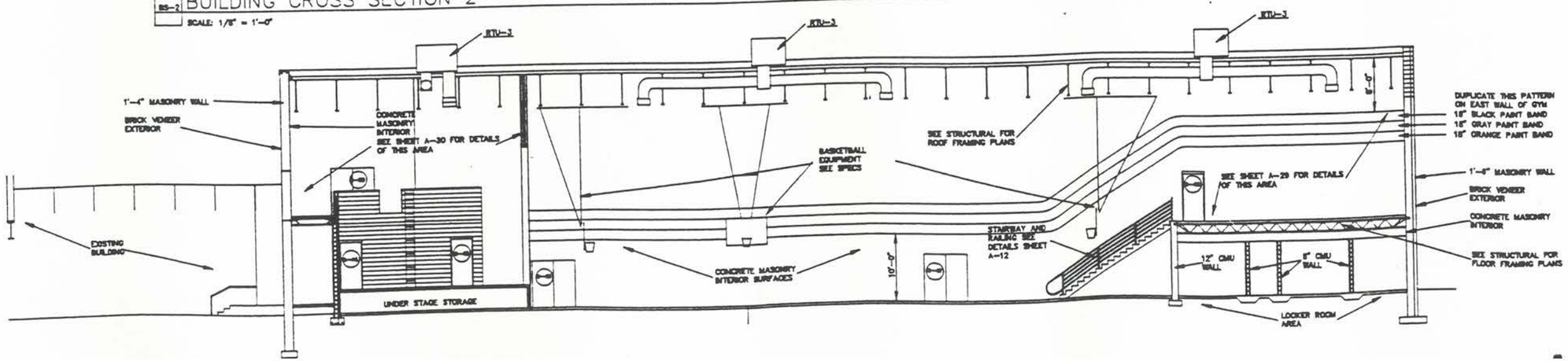
BS-1 BUILDING CROSS SECTION 1

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

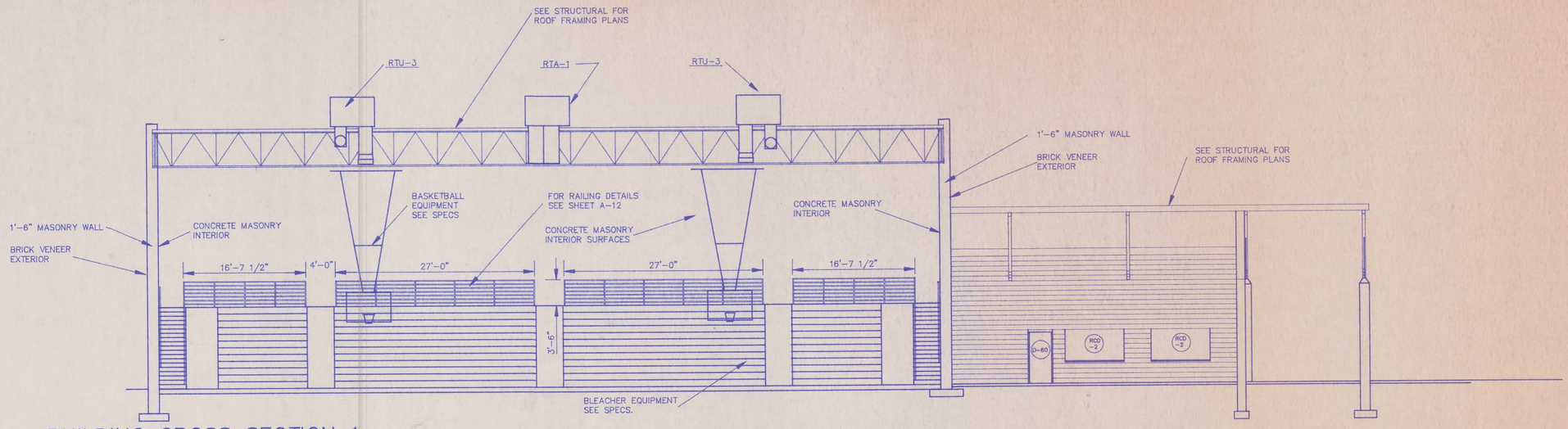


BS-2 BUILDING CROSS SECTION 2

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

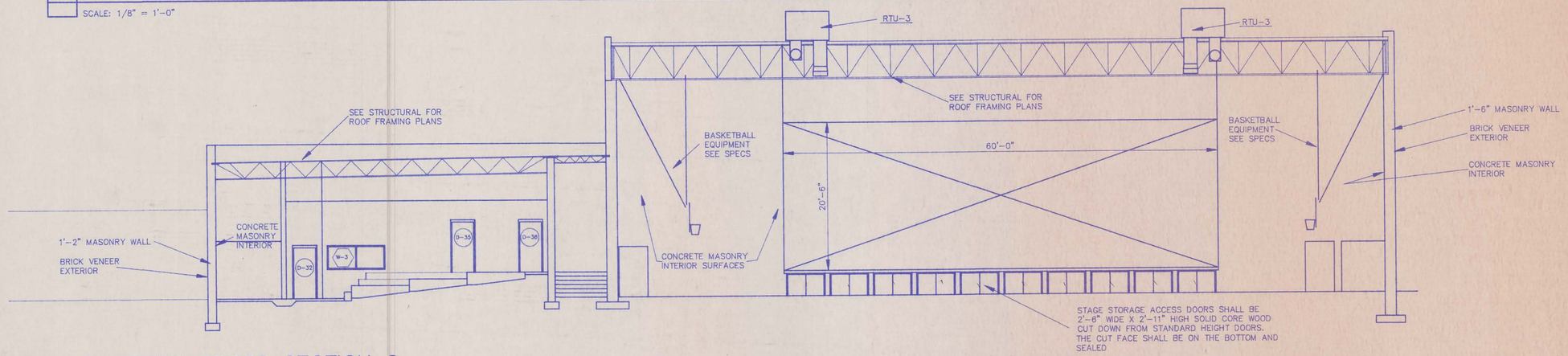


See Opposite Page



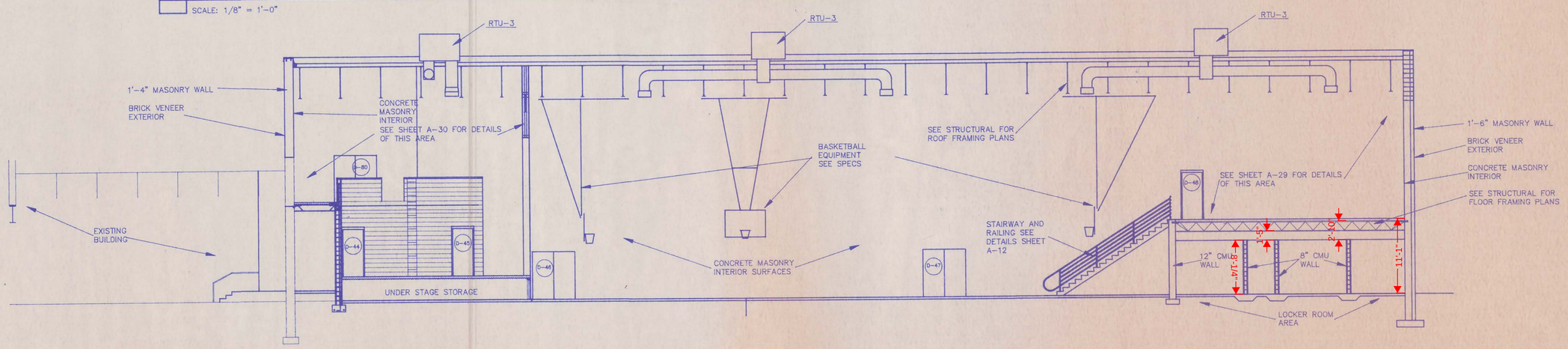
BS-1 BUILDING CROSS SECTION 1

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



BS-2 BUILDING CROSS SECTION 2

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



BS-3 BUILDING CROSS SECTION 3

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

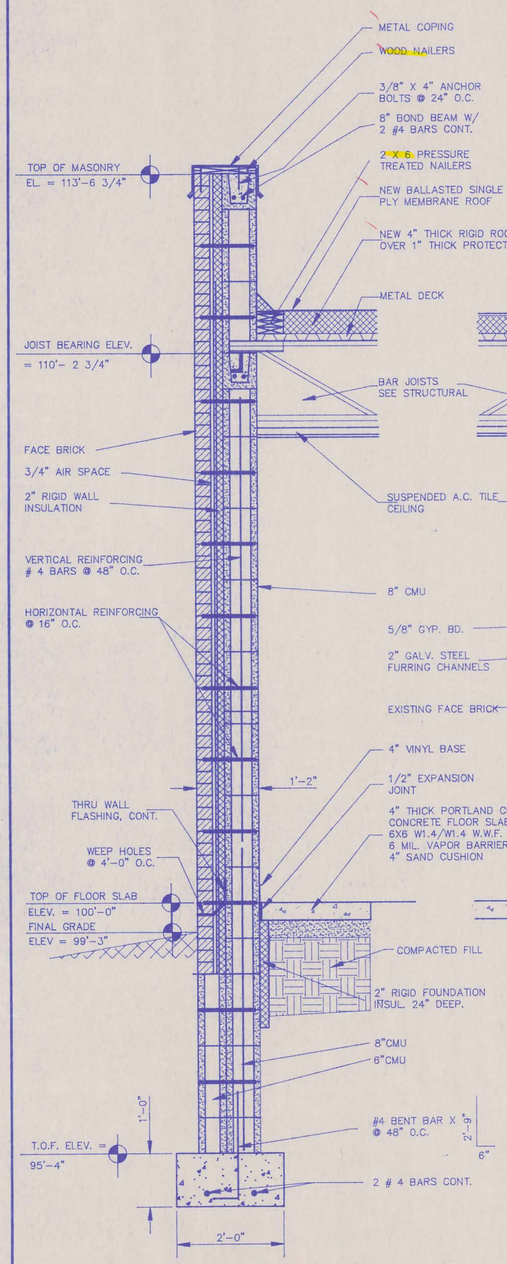
REVISIONS

NO.	DATE

A-21

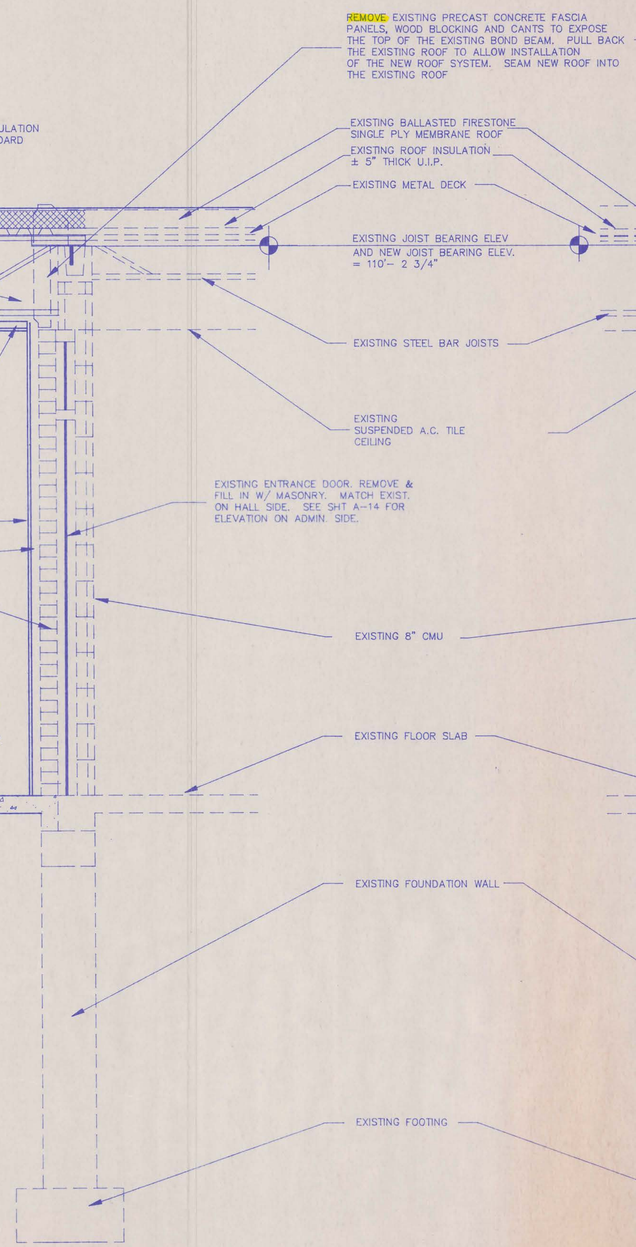
DATE: SEPTEMBER, 1991

NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



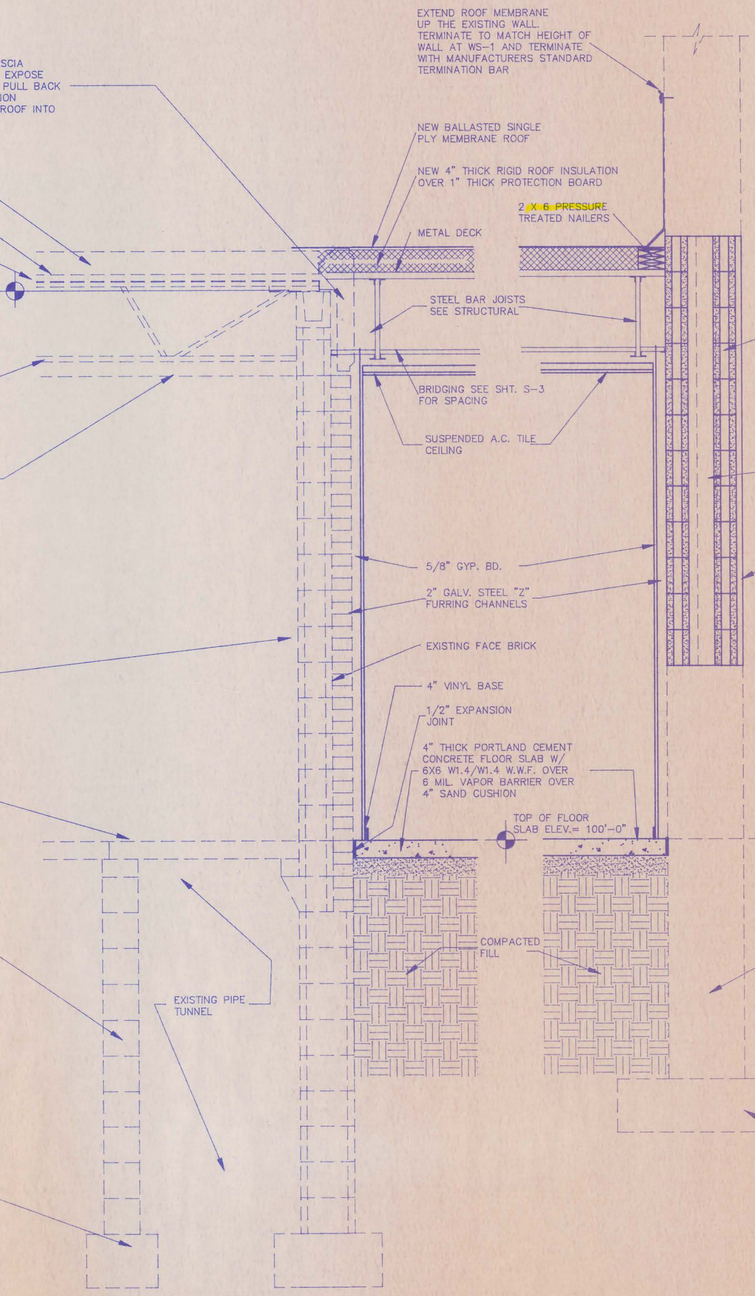
WS-1 WALL SECTION

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



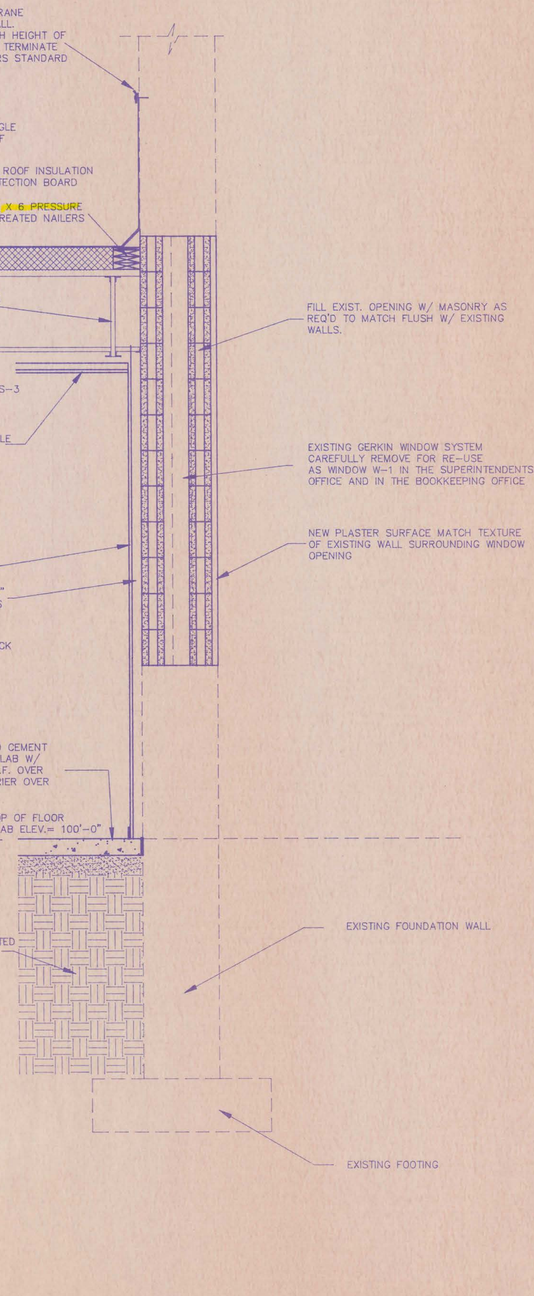
WS-2 WALL SECTION

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



WS-3 WALL SECTION

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



WS-4 WALL SECTION

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

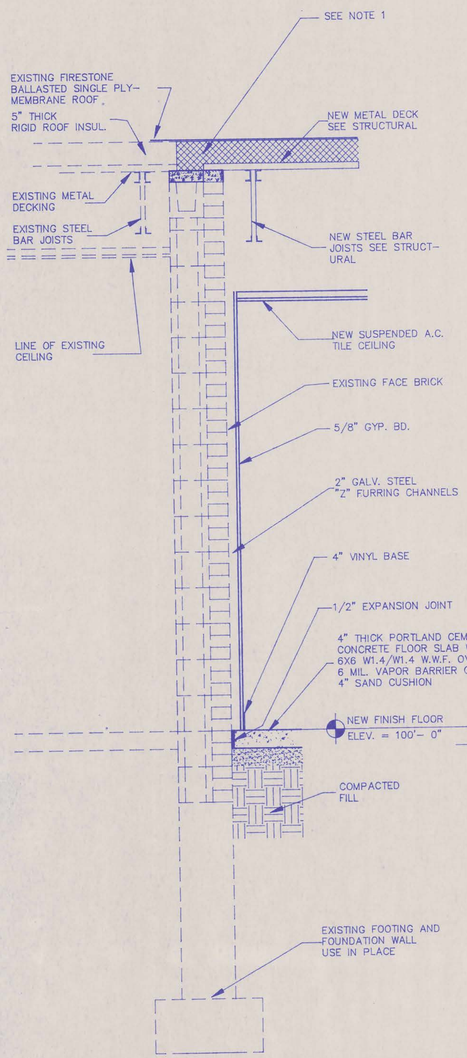
NO.	DATE

A-22

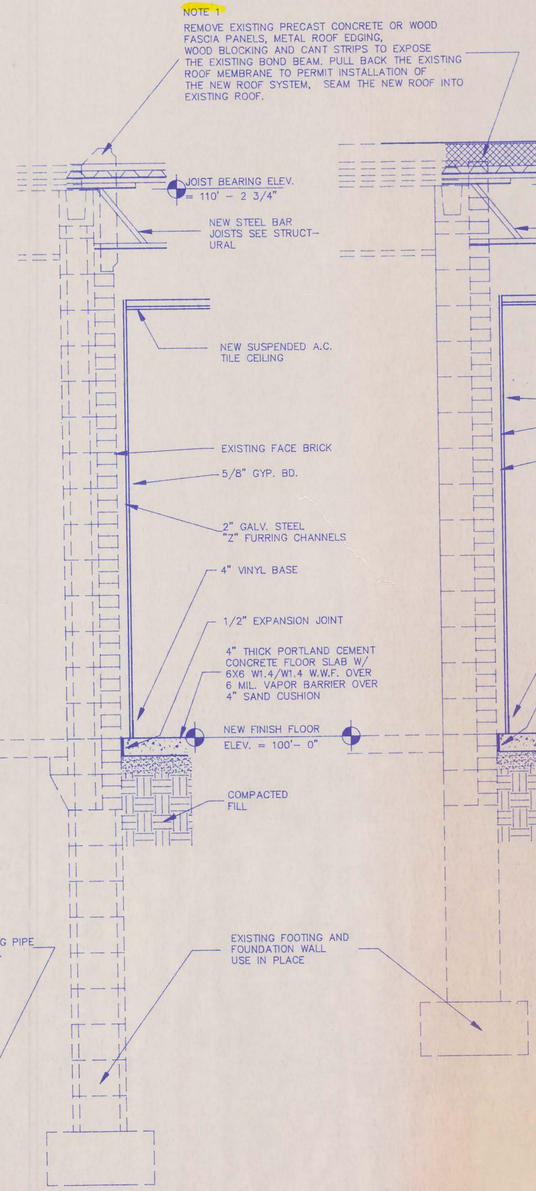
DATE: SEPTEMBER, 1991

540088

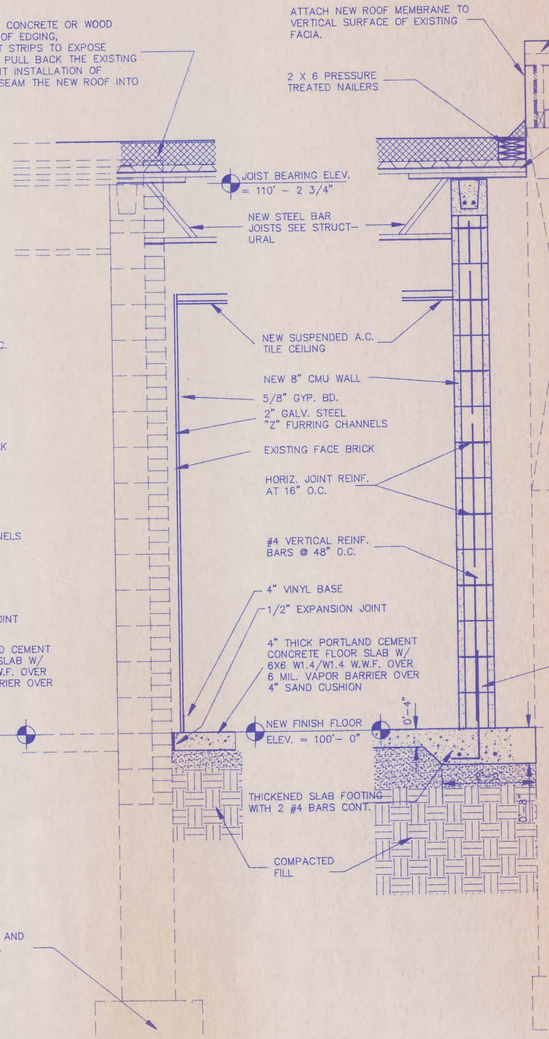
NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



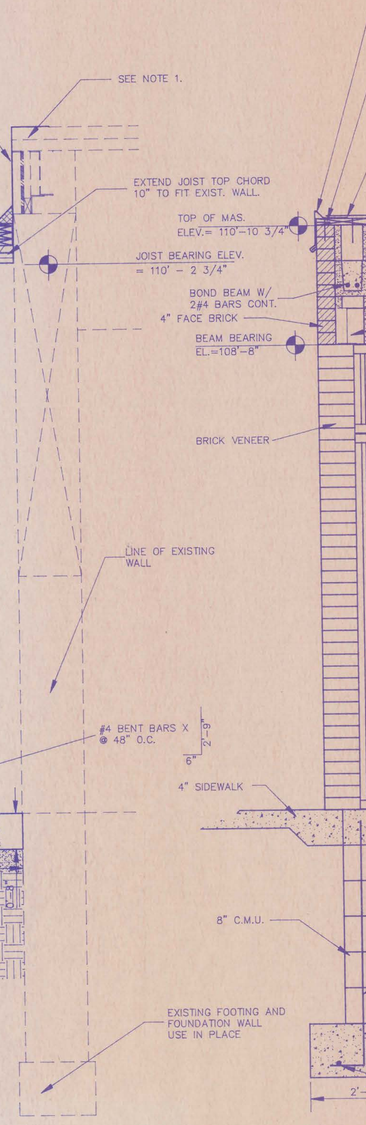
WS-5 WALL SECTION
SCALE: 3/4" = 1'-0"



WS-6 WALL SECTION
SCALE: 3/4" = 1'-0"



WS-7 WALL SECTION
SCALE: 3/4" = 1'-0"



WS-8 WALL SECTION
SCALE: 3/4" = 1'-0"

WS-8a VESTIBULE SECTION
SCALE: 3/4" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

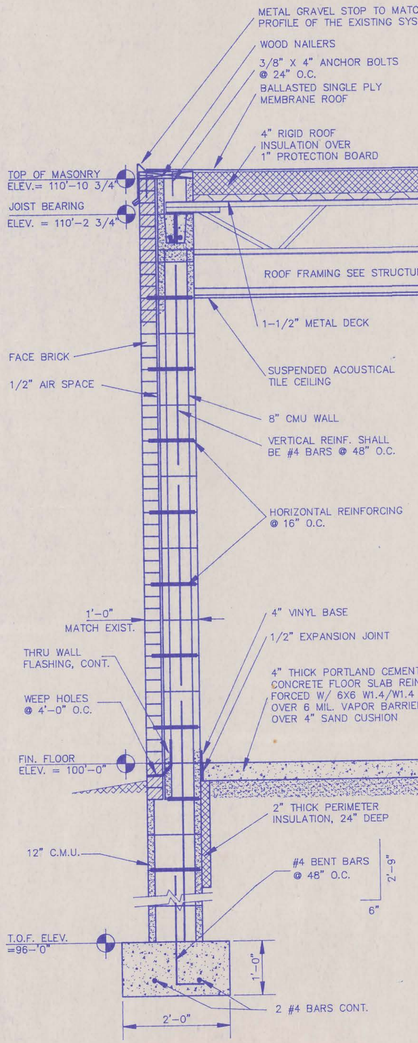
REVISIONS

NO.	DATE

A-23

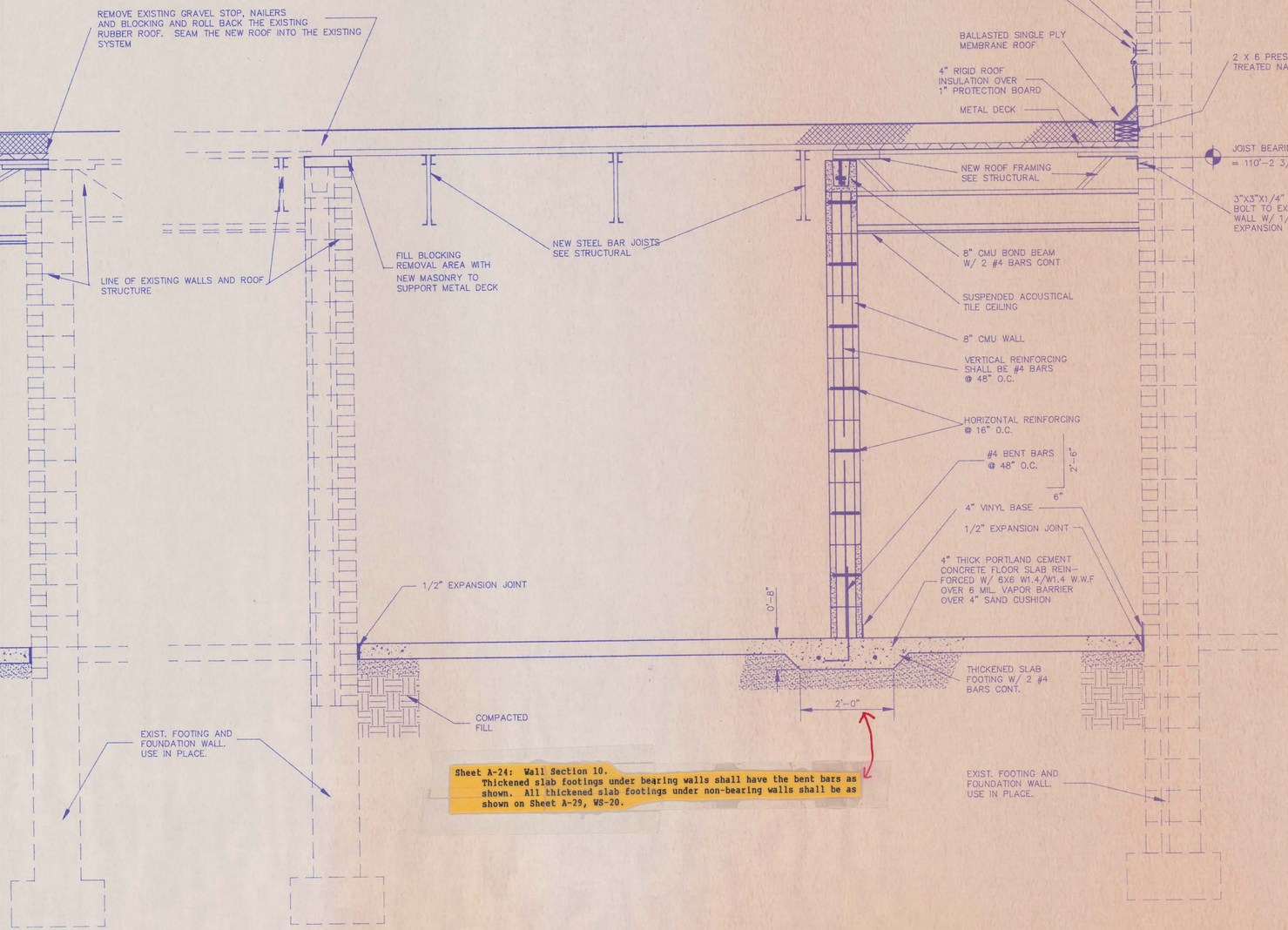
DATE: SEPTEMBER, 1991

NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



WS-9 WALL SECTION

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



Sheet A-24: Wall Section 10.
Thickened slab footings under bearing walls shall have the bent bars as shown. All thickened slab footings under non-bearing walls shall be as shown on Sheet A-29, WS-20.

WS-10 WALL SECTION

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

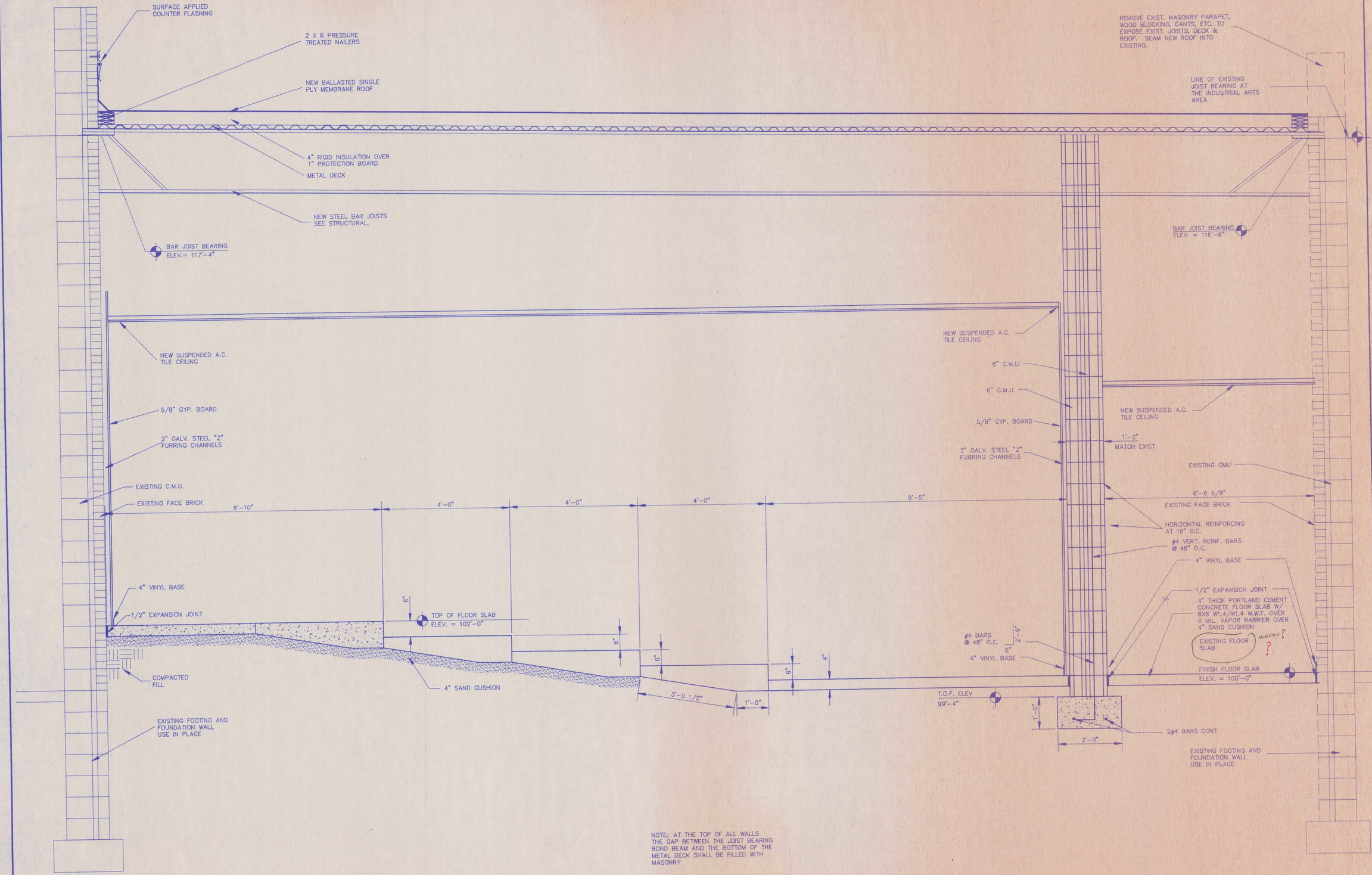
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-24

DATE: SEPTEMBER, 1991



NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY

WS-11 WALL SECTION

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

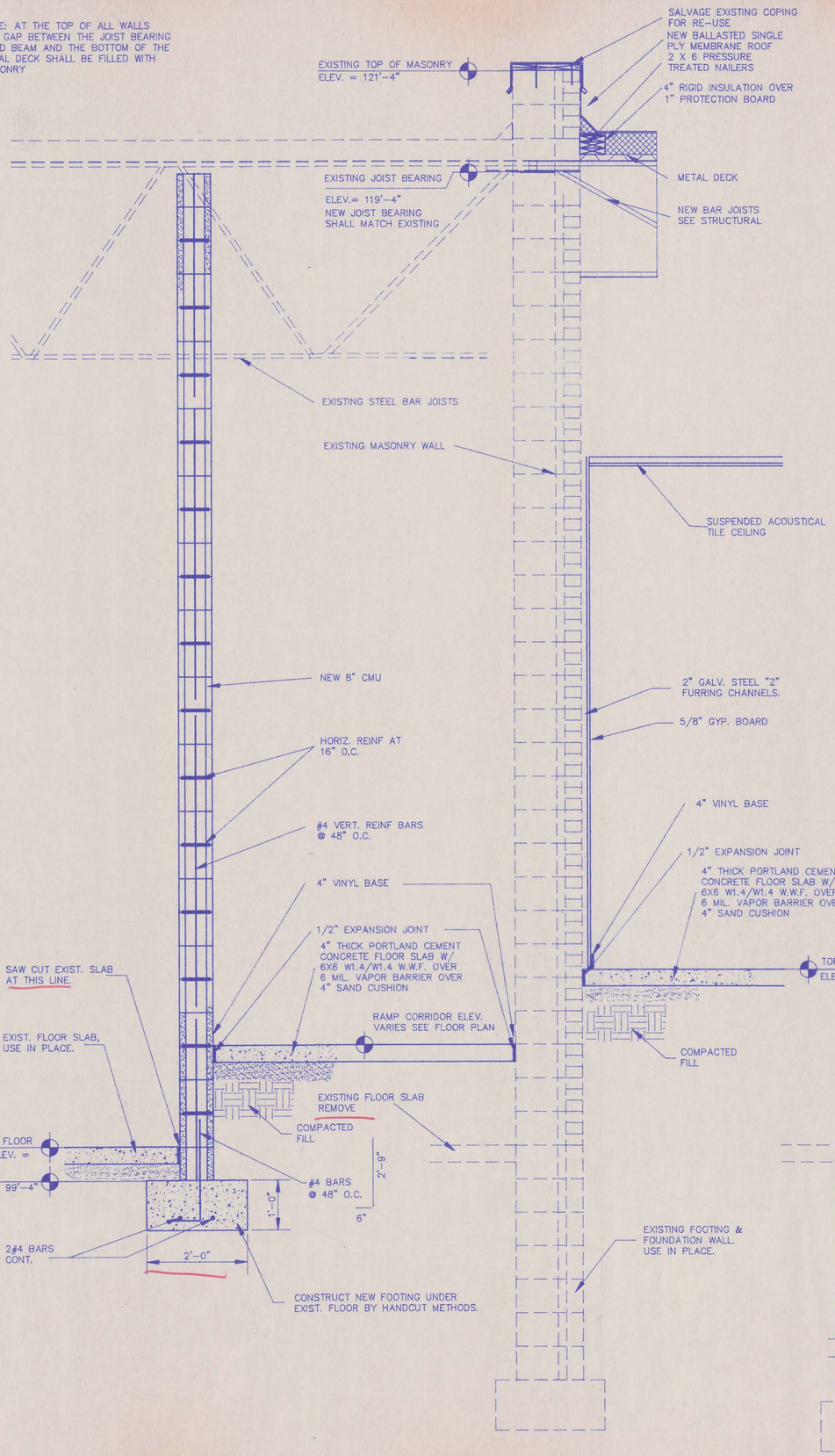
REVISIONS

No.	DATE

A-25

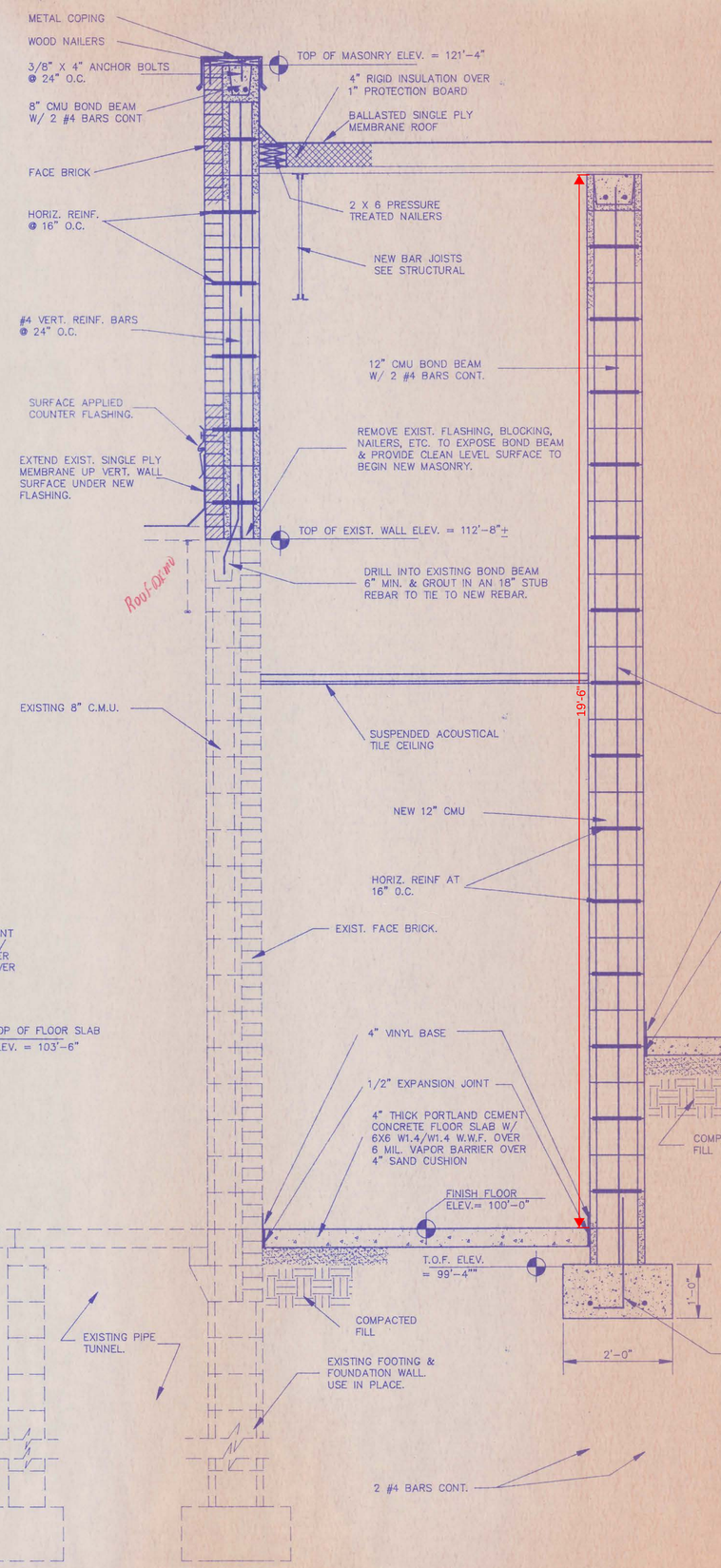
DATE: SEPTEMBER, 1991

NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



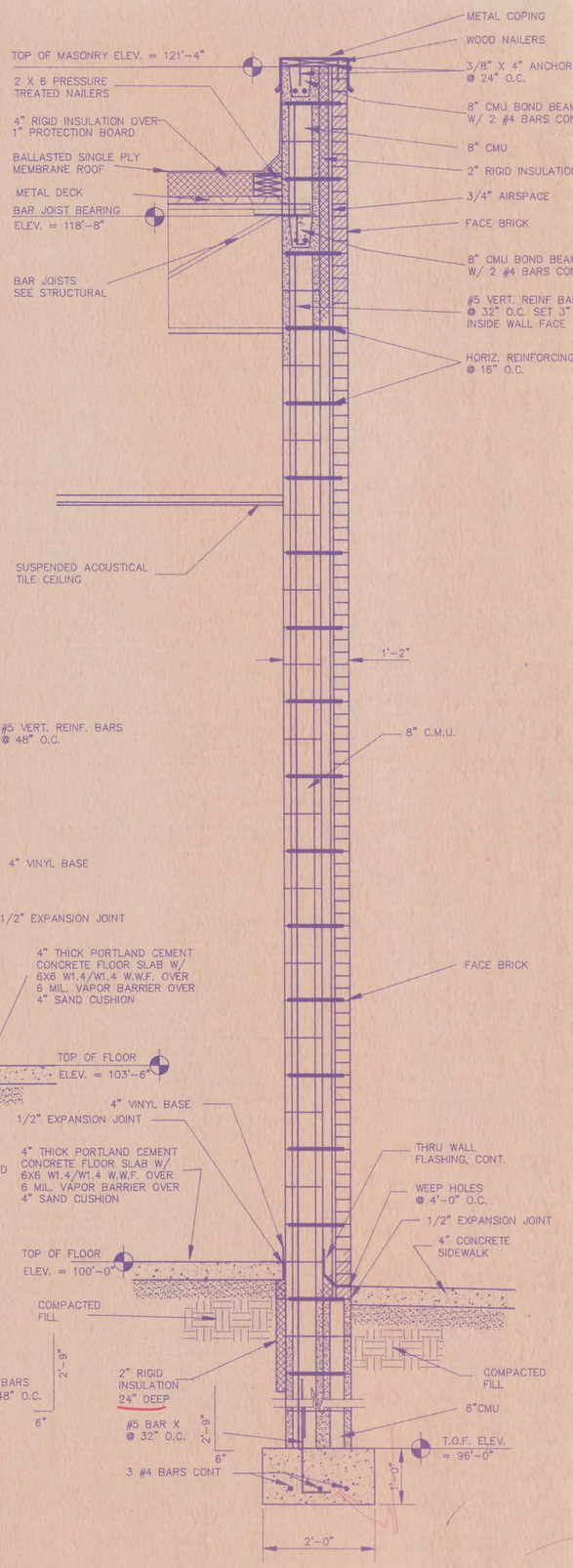
WS-12 WALL SECTION

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



WS-13 WALL SECTION

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



WS-14 WALL SECTION

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

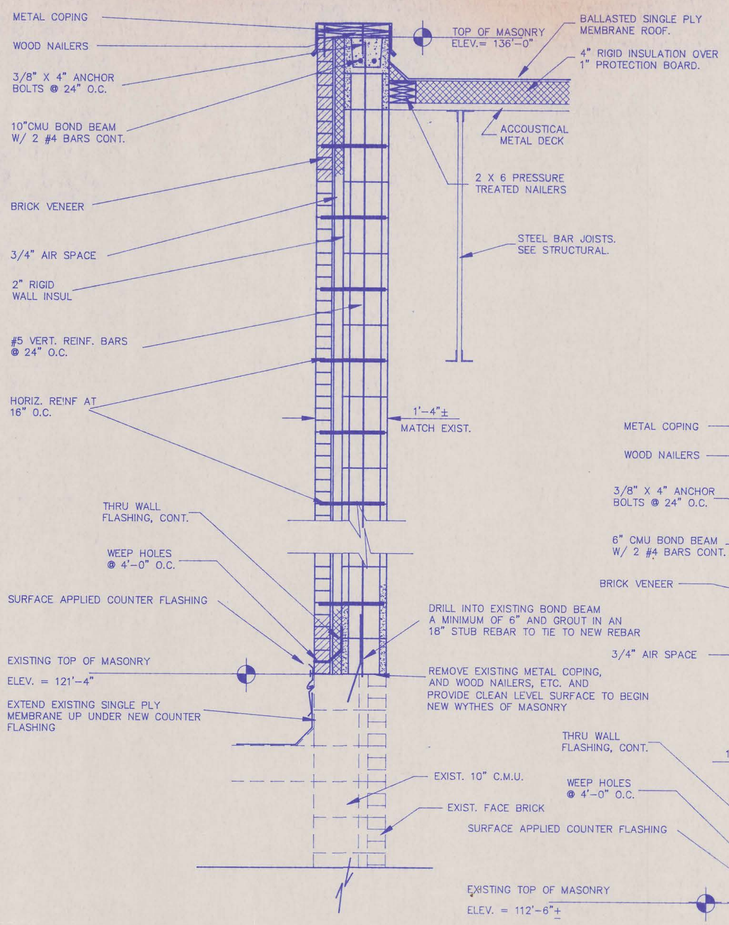
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

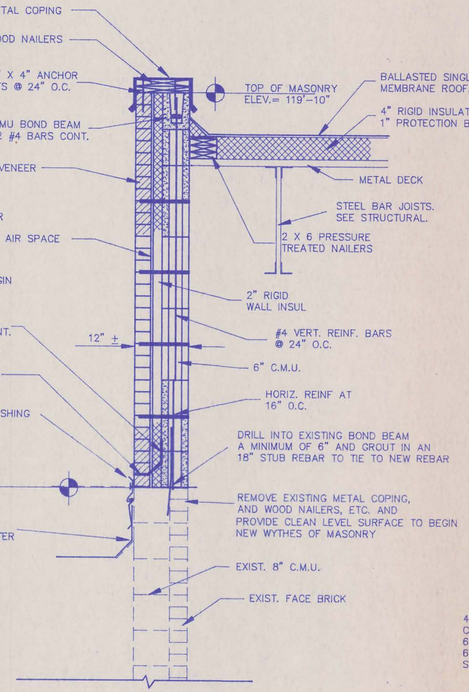
NO.	DATE

A-26

DATE: SEPTEMBER, 1991

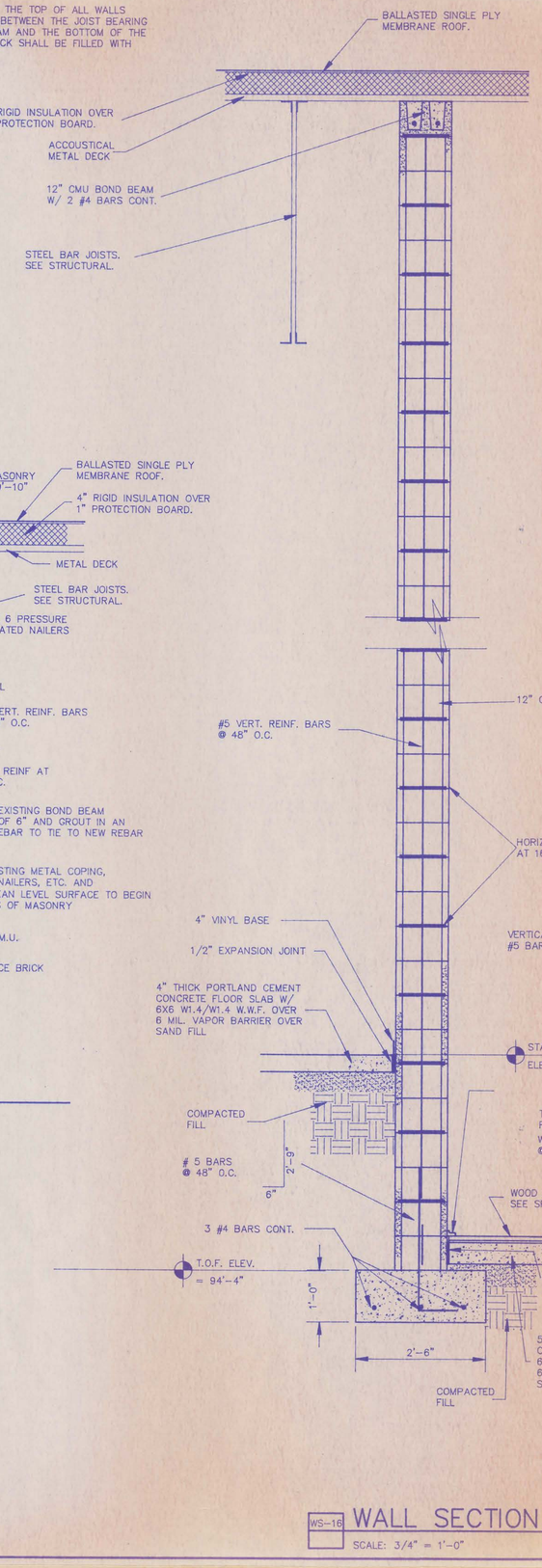


WS-15 WALL SECTION
SCALE: 3/4"= 1'-0"

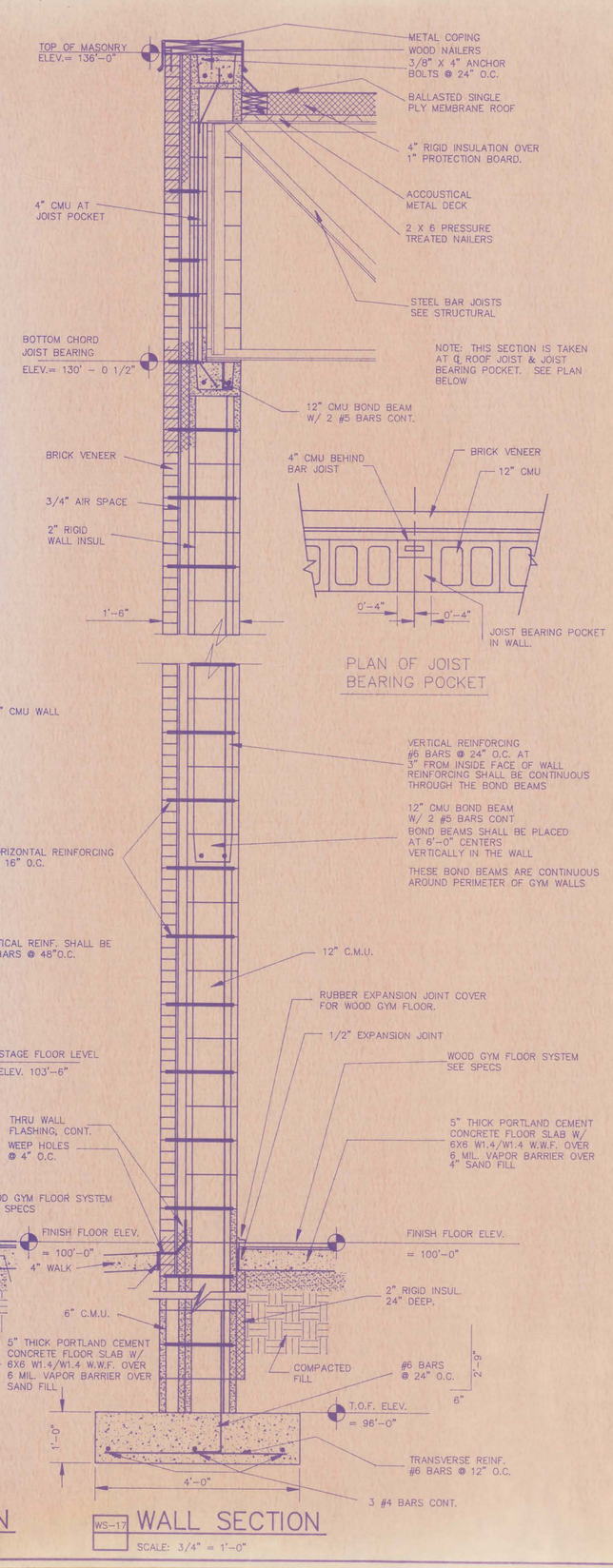


WS-22 WALL SECTION
SCALE: 3/4"= 1'-0"

NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



WS-16 WALL SECTION
SCALE: 3/4" = 1'-0"



WS-17 WALL SECTION
SCALE: 3/4" = 1'-0"

NOTE: THIS SECTION IS TAKEN AT ℄ ROOF JOIST & JOIST BEARING POCKET. SEE PLAN BELOW

PLAN OF JOIST BEARING POCKET

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

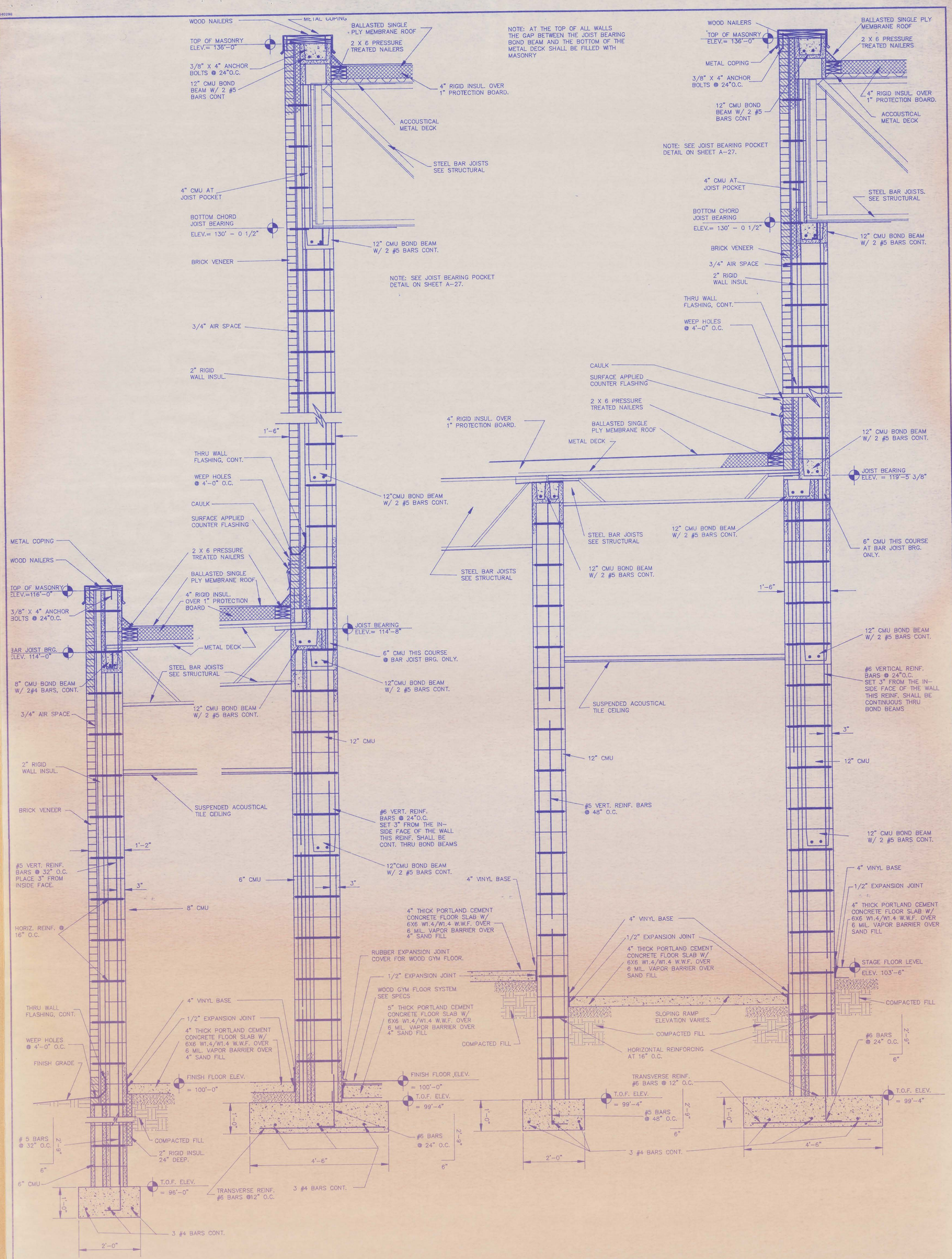
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	DATE

A-27

DATE: SEPTEMBER, 1991



WS-18 WALL SECTION
SCALE: 3/4" = 1'-0"

WS-19 WALL SECTION
SCALE: 3/4" = 1'-0"

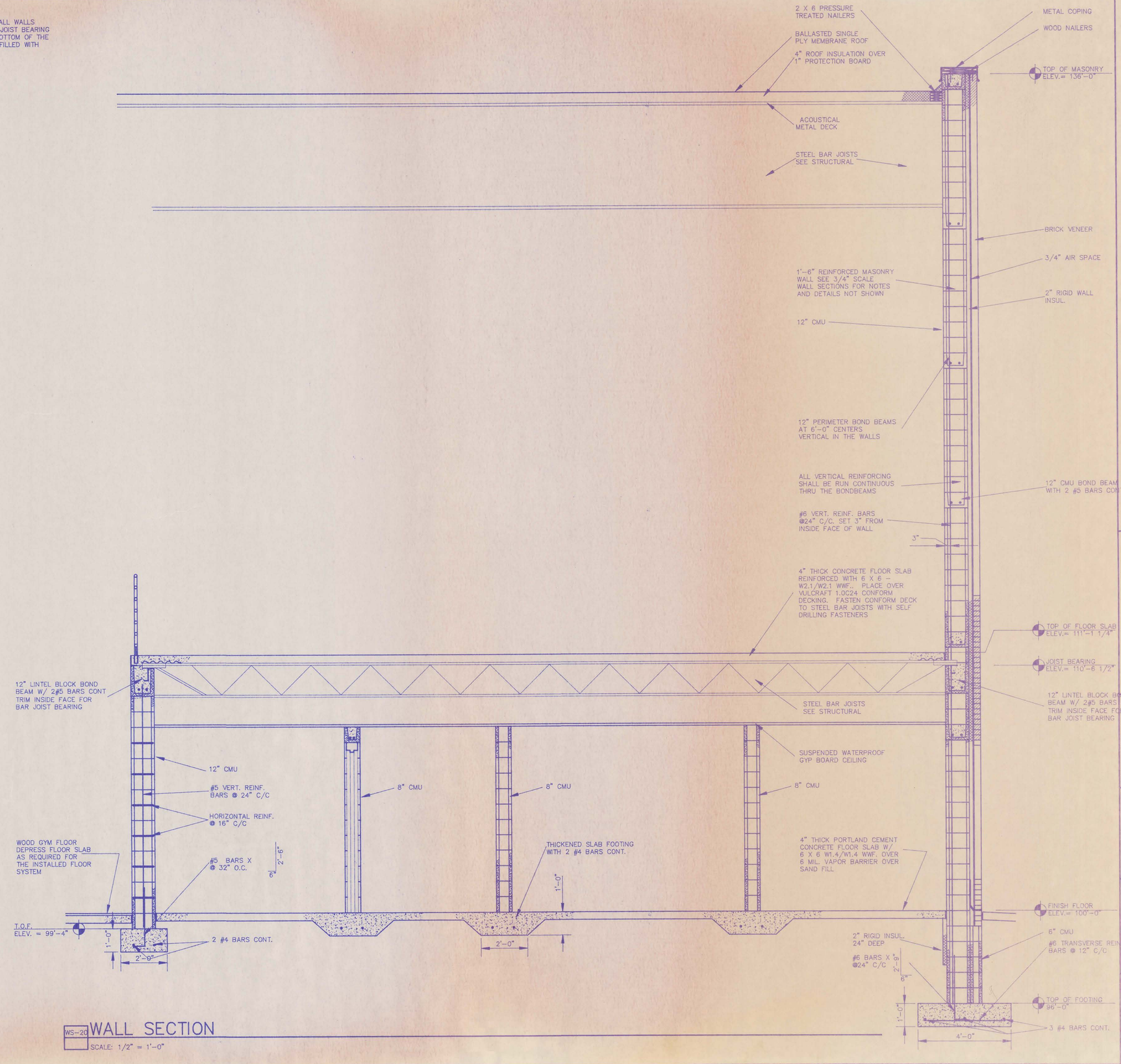
REVISIONS	
No.	DATE

A-28

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

NOTE: AT THE TOP OF ALL WALLS THE GAP BETWEEN THE JOIST BEARING BOND BEAM AND THE BOTTOM OF THE METAL DECK SHALL BE FILLED WITH MASONRY



WS-20 WALL SECTION

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

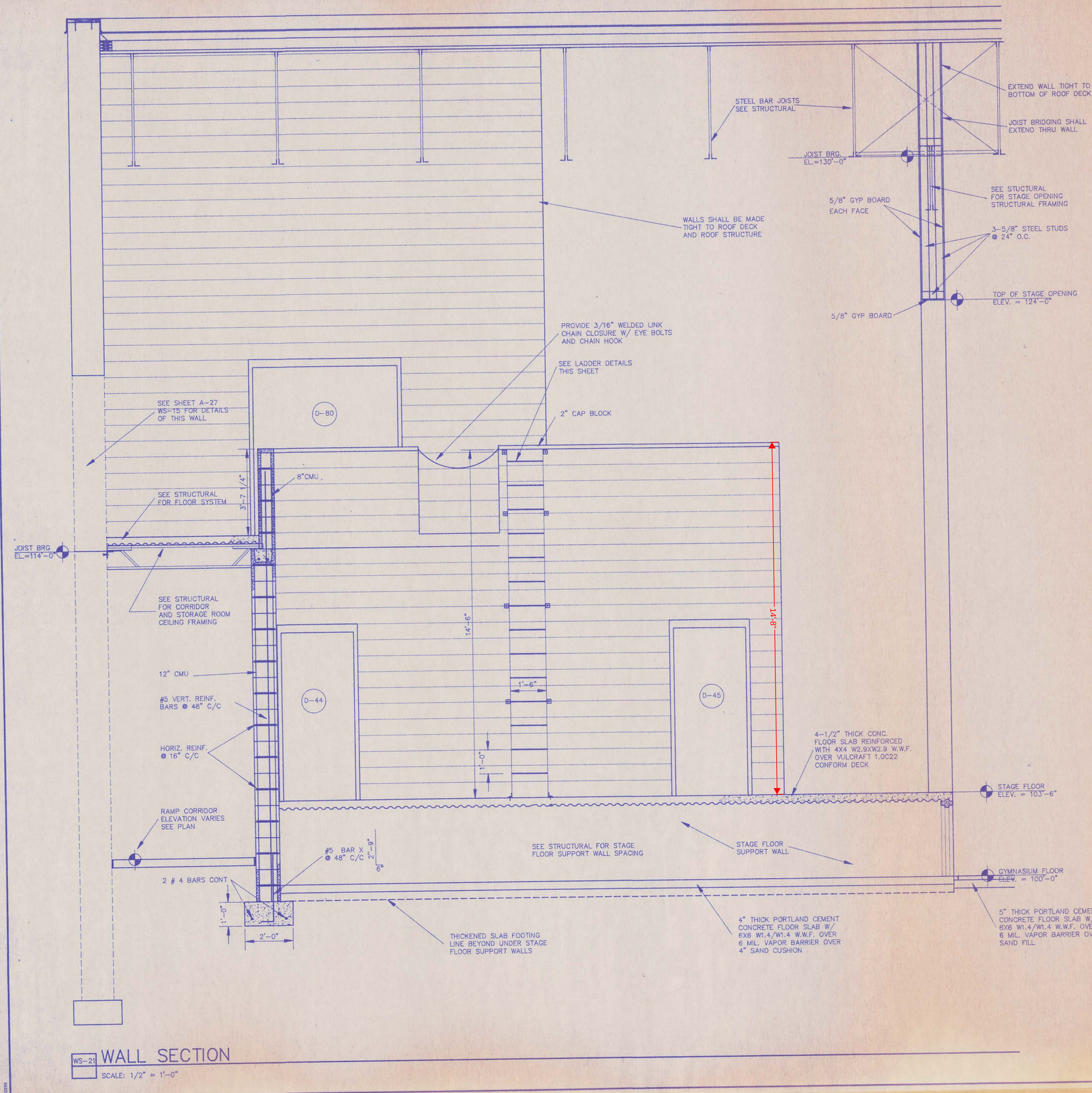
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS		
NO.	DATE	

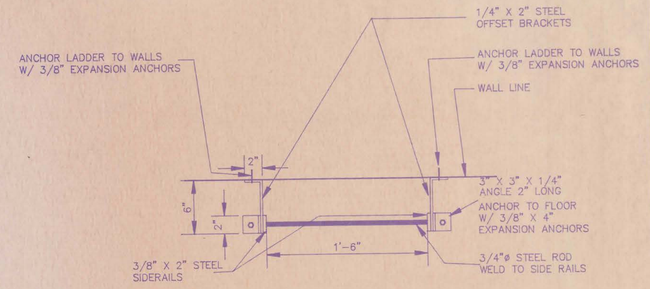
A-29

DATE: SEPTEMBER, 1991



WS-21 WALL SECTION

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



LADDER SECTION

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

Plan Sheet A-30
Ladders - Precision Stair Corporation
Make the following changes in Specifications Sections.

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

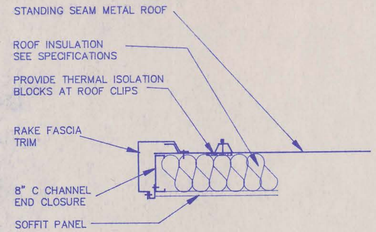
REVISIONS

NO.	DATE

A-30

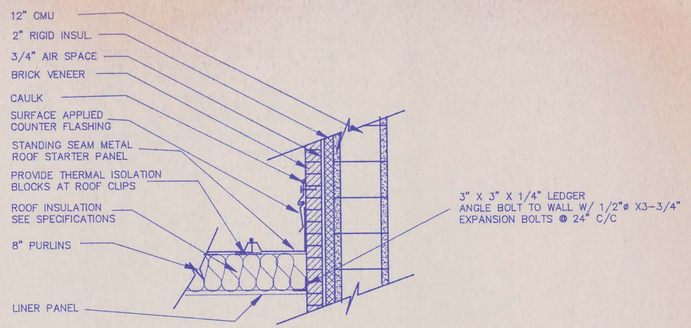
DATE: SEPTEMBER, 1991

STANDARDBLUE, OMAHA



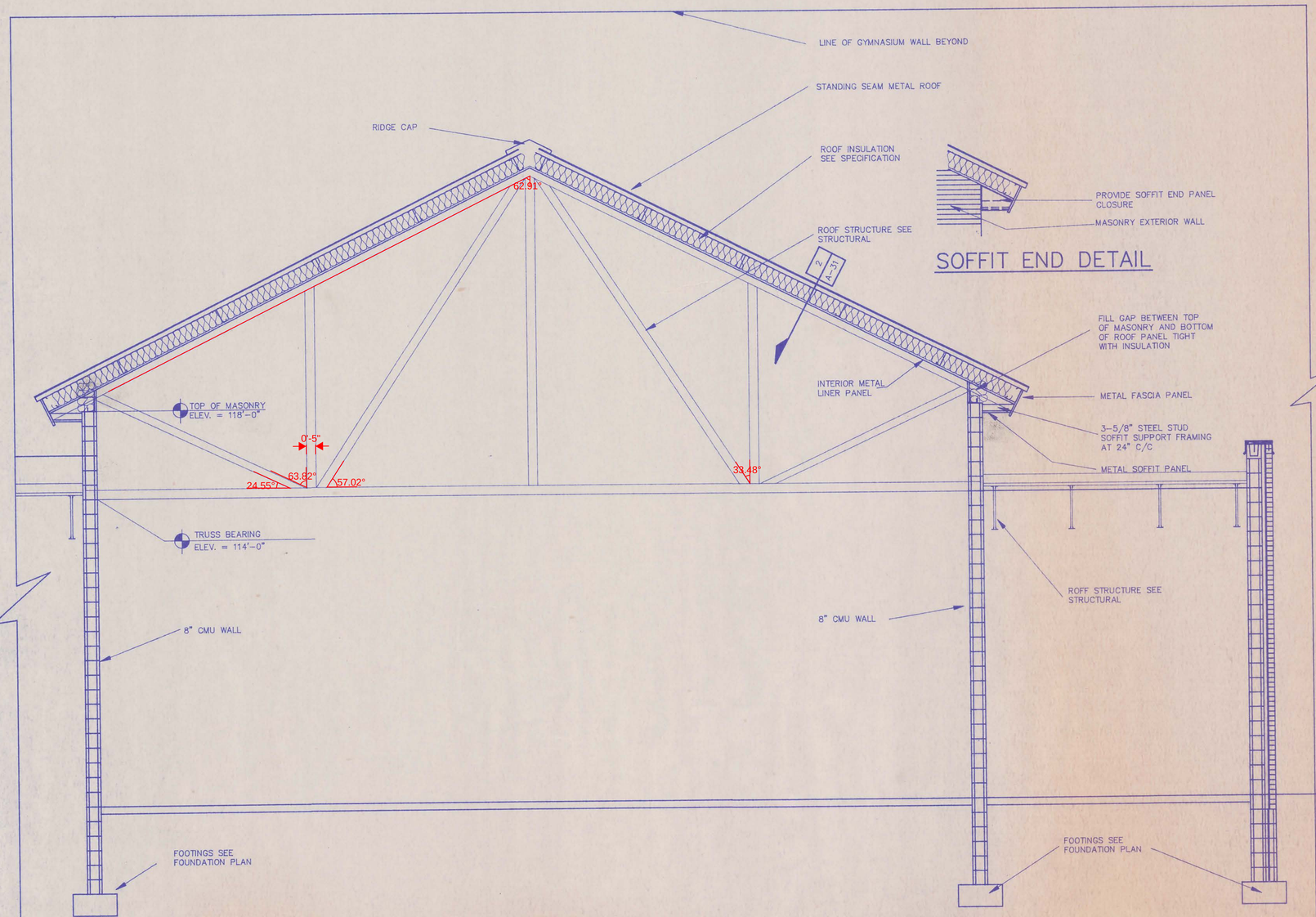
1 RAKE FASCIA DETAIL

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



2 WALL CONNECTION DETAIL

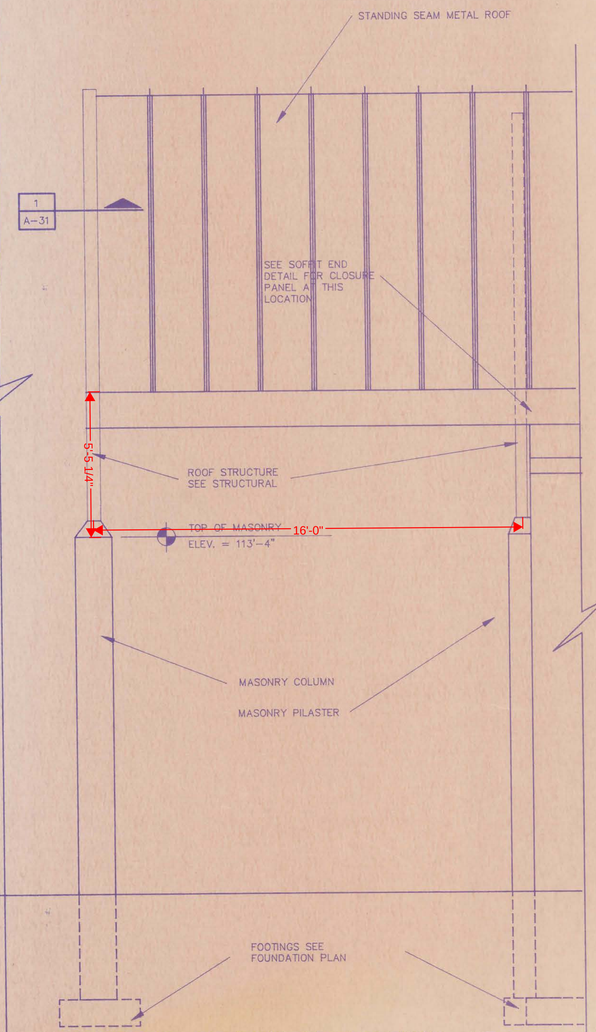
SCALE: 3/4" = 1'-0"



WS-22 PARTIAL BUILDING SECTION

SCALE: 3/8" = 1'-0"

SOFFIT END DETAIL



PARTIAL NORTH ELEVATION AT GYMNASIUM ENTRANCE

SCALE: 3/8" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

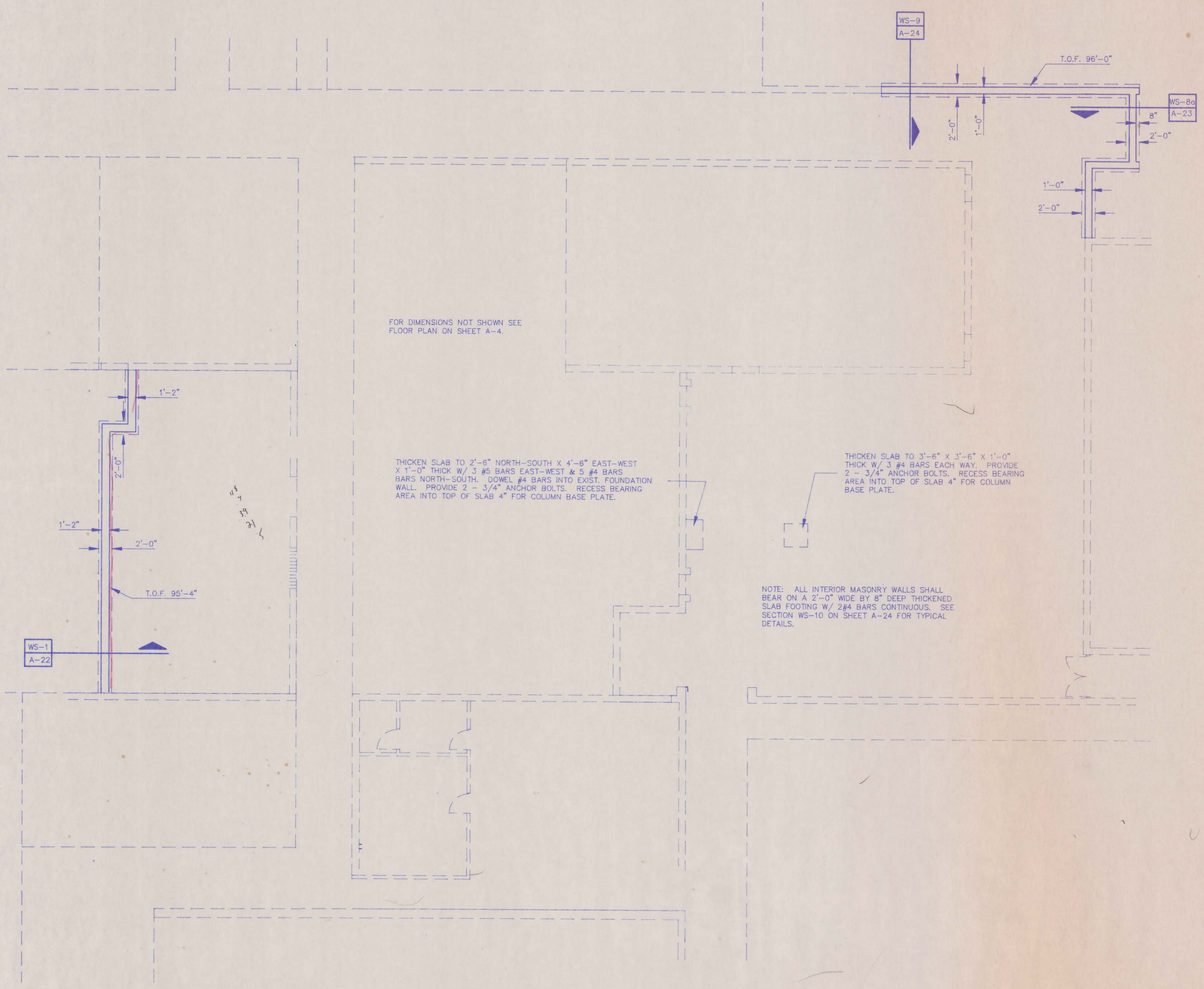
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

A-31

DATE: SEPTEMBER, 1991



ADMINISTRATION AND CLASSROOM AREA FOUNDATION PLAN

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

LINTEL SCHEDULE		
MARK	DESCRIPTION	MIN. BRG.
L-1	8" Masonry Bond Beam with 2 #4 Bars	8"
L-2	5"x3-1/2"x1/4" Angles (3 Each) with L.L.V.	8"
L-3	5"x3-1/2"x1/4" Angles (5 Each) with L.L.V.	8"
L-4	3-1/2"x3-1/2"x1/4" Angles (4 Each) with L.L.V.	8"
L-5	6" Masonry Bond Beam with 2 #4 Bars	8"

BEAM SCHEDULE			
MARK	DESCRIPTION		MIN. BRG.
B-1	W8x10 with 1/4"x13" Brick Plate		8"
B-2	W12x26		---
B-3	W8x10 with 2 Each Loose 8"x8"x1/2" Brg. Plates		8"
B-4	W8x31 with 1/4"x17" Brick Plate and 2 Loose 12"x16"x1/2" Brg. Plates		12"
B-5	W8x31 with 1/4"x15" Brick Plate and 2 Loose 12"x14"x1/2" Brg. Plates		12"
B-6	W8x31 with 1/4"x11" Brick Plate and 2 Loose 12"x10"x1/2" Brg. Plates		12"
B-7	W8x10 with 1/4"x7" Brick Plate		8"
B-8	W14x68		---

COLUMN SCHEDULE					
MARK	DESCRIPTION	BASE PLATE	BRG. ELEV.	TOP PLATE	TOP ELEV.
C-1	4x4x3/16 Tube	10"x10"x1/2"	99'-8"	8"x8"x1/2"	109'-2 1/2"
C-2	8x4x1/4 Tube	12"x12"x1/2"	99'-4"	8"x4"x1/2"	107'-4"
C-3	8x4x1/4 Tube	12"x12"x1/2"	96'-0"	8"x4"x1/2"	114'-0"
C-4	4x4x1/4 Tube	12"x12"x1/2"	99'-4"	5"x8"x1/2"	114'-0"
C-5	4x4x1/4 Tube	12"x12"x1/2"	96'-0"	5"x8"x1/2"	114'-0"
C-6	4x4x1/4 Tube	12"x8"x1/2"	99'-8"	5"x12"x1/2"	110'-10"

NOTE: For location of Beam B-8 and Columns C-6 see Sheet A-7.

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	DATE

S-1

DATE: SEPTEMBER, 199

PHYSICAL EDUCATION AREA FOUNDATION PLAN

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

T.O.F. 99'-4"
T.O.F. 96'-0"
WS-11 A-25
WS-12 A-26
WS-13 A-26
WS-14 A-26
WS-16 A-27
WS-17 A-27
WS-18 A-28
WS-19 A-28
WS-20 A-29
WS-21 A-30
BS-1 A-21
BS-2 A-21
BS-3 A-21

4" THICK CONCRETE FLOOR UNDER STAGE REINF. W/ 6X6-W1.4XW1.4 W.W.F. ELEV. = 100.00

NEW 12" CMU WALL.

DECK OVER STAGE SHALL BE 1.0C22 CONFORM DECKING W/ A 4 1/2" CONCRETE FLOOR REINF. W/ 4X4-W2.9X W2.9.

NEW 8" CMU WALL UNDER STAGE. TYPICAL.

ALL 8" CMU WALLS UNDER STAGE SHALL HAVE 8" DEEP X 24" WIDE THICKENED SLAB FTG. W/ 2#4 BARS CONT.

5" THICK CONCRETE FLOOR SLAB REINFORCED W/ 6X6-W1.4XW1.4 W.W.F. OVER 6 MIL. VAPOR BARRIER OVER 4" SAND CUSHION. LOWER FLOOR 2 3/16" IN GYM TO ALLOW FOR WOOD FLOOR. ELEV. = 99'-9 13/16"

ADD 5 EA. #6 BARS X 10'-0" TO FTG. REINFORCING. CENTER UNDER COLUMN C-2. PLACE AT 12" O.C. ON TOP OF TRANSVERSE #6 BARS.

FOOTING STEP

COLUMN C-2 BASE PLATE TO HAVE 4 EA. 3/4"Ø ANCHOR BOLTS.

COLUMN C-4 BASE PLATE TO HAVE 4 EA. 3/4"Ø ANCHOR BOLTS.

COLUMN C-3 BASE PLATE TO HAVE 4 EA. 3/4"Ø ANCHOR BOLTS.

COLUMN C-5 BASE PLATE TO HAVE 4 EA. 3/4"Ø ANCHOR BOLTS.

3'-0"X3'-0"X1'-0" FTG. W/ 3#4 BARS EACH WAY. (TYP. OF 8)

NOTES:
1. FOR DIMENSIONS NOT SHOWN SEE FLOOR PLAN ON SHEET A-5.
2. ALL INTERIOR MASONRY WALLS WITHOUT FOOTINGS SHOWN SHALL BEAR ON A 2'-0" WIDE BY 8" DEEP THICKENED SLAB FOOTING WITH 2#4 BARS CONT. SEE SECTION WS-10 ON SHEET A-24 FOR TYPICAL DETAILS.

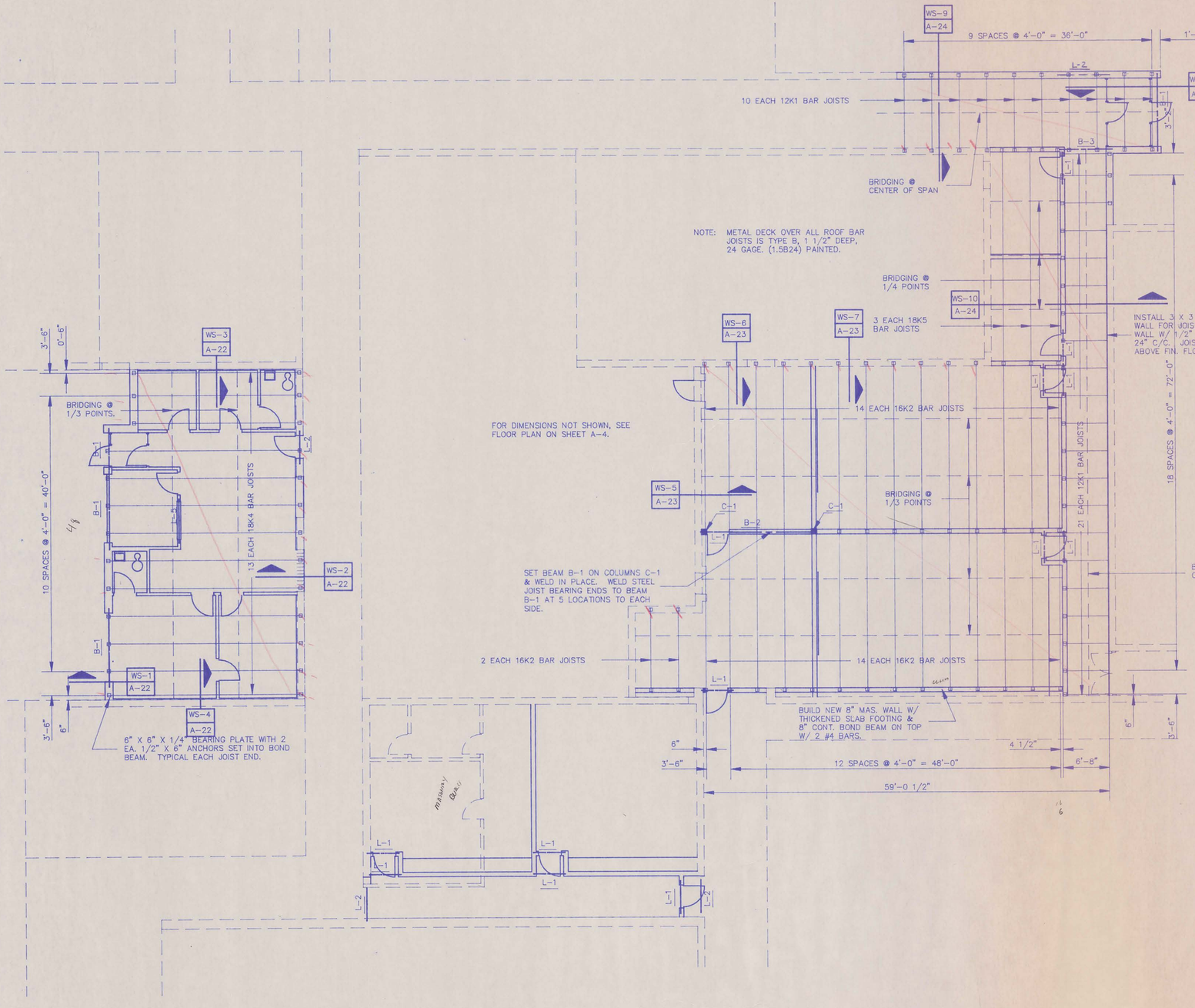
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

S-2

DATE: SEPTEMBER



ADMINISTRATION AND CLASSROOM AREA FRAMING PLAN

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

STAGE STORAGE FRAMING PLAN

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

S-3

DATE: SEPTEMBER, 1991

PHYSICAL EDUCATION AREA FRAMING PLAN

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

9 EA. 24K6 BAR JOISTS
8 SPACES @ 4'-0" = 32'-0"
5'-0"
7"
BRIDGING @ 1/4 POINTS
NOTE: BEAM B-7 IS IN MECH. ROOM ABOVE STAGE.
6" X 6" X 1/4" BEARING PLATE W/ 2 EA. 1/2" X 6" ANCHORS SET INTO BOND BEAM. TYPICAL EACH JOIST END.
1 EA. 32LH06 BAR JOIST OVER STAGE OPENING. BEARING ELEV = 130'-0". TOP CHORD BEARING. BRACE TOP CHORD WITH 56DLH14 BRIDGING.
BOLTED DIAGONAL BRIDGING AT 16'-0" C/C MAX SPACING.
NOTES FOR EXISTING MASONRY WALLS:
1. BEAMS OR LINTELS TO BE PLACED IN EXIST. WALLS WILL HAVE SUFFICIENT WALL REMOVED TO INSTALL NEW LINTEL AND MASONRY REPLACED TO MATCH EXISTING SURFACES AROUND NEW OPENING.
2. WHERE A BEAM OR LINTEL IS TO BEAR ON AN EXISTING WALL, THE EXISTING MASONRY WILL BE REMOVED AND BUILT BACK TO PROPER BEARING ELEVATION. AFTER BEAM OR LINTEL PLACEMENT, ANY SURFACE VOIDS WILL BE REPLACED TO MATCH EXISTING.
1'-4"
27 SPACES @ 6'-0" = 162'-0"
28 EA. 56DLH14 BAR JOISTS
BOTTOM CHORD BEARING
6" X 9" X 1/4" BEARING PLATE W/ 2 EA. 1/2" X 6" ANCHORS SET INTO BOND BEAM. TYPICAL BOTH ENDS.
EXISTING BAR JOISTS USE IN PLACE
9 SPACES @ 4'-0" = 36'-0"
10 EA. 12K1 BAR JOISTS
SET BEAM B-4 ON MASONRY AND COLUMN C-2 AND WELD IN PLACE.
B-4 CONT.
8" X 10" x 1/2" BEARING PLATE W/ 4 EACH 1/2" X 6" ANCHORS SET INTO BOND BEAM. TYPICAL EACH JOIST END.
BRIDGING @ 1/5 POINTS.
THIS ROW TO BE BOLTED DIAGONAL TYPE BRIDGING.
BRIDGING @ 1/4 POINTS.
MAIN FRAME TRUSSES, SEE DETAIL ON SHT. S-5
9 EA. 24K7 BAR JOISTS
6 SPACES @ 4'-0" = 24'-0"
3'-6"
16'-0"
8'-0"
4 EA. 24K7 BAR JOISTS
3'-6" 4'-0" 3'-6"
6" X 6" X 1/4" BEARING PLATE W/ 2 EA. 1/2" X 6" ANCHORS SET INTO BOND BEAM. TYPICAL EACH JOIST END.
8" EAVE STRUT
8" "C" PURLINS
8" "C" CHANNEL END CLOSURE
SET MAIN FRAME TRUSSES ON COLUMNS C-4 AND C-5 AND WELD IN PLACE.
SET BEAM B-1 ON MASONRY AND COLUMNS C-3 AND WELD IN PLACE.
B-1 CONT.
19 EA. 28K9 BARJOISTS
18 SPACES @ 4'-0" = 72'-0"
6" X 6" X 1/4" BEARING PLATE W/ 2 EA. 1/2" X 6" ANCHORS SET INTO BOND BEAM. TYPICAL EACH JOIST END.
1'-10"
20'-2"
6"
1'-0"
3'-6" 4 SPACES @ 4'-6" = 18'-0"
WS-11 A-25
WS-22 A-27
WS-15 A-27
WS-17 A-27
WS-21 A-30
WS-16 A-27
WS-19 A-28
WS-18 A-28
WS-12 A-26
WS-13 A-26
WS-14 A-26
WS-20 A-29
BS-1 A-21
BS-3 A-21
BS-2 A-21

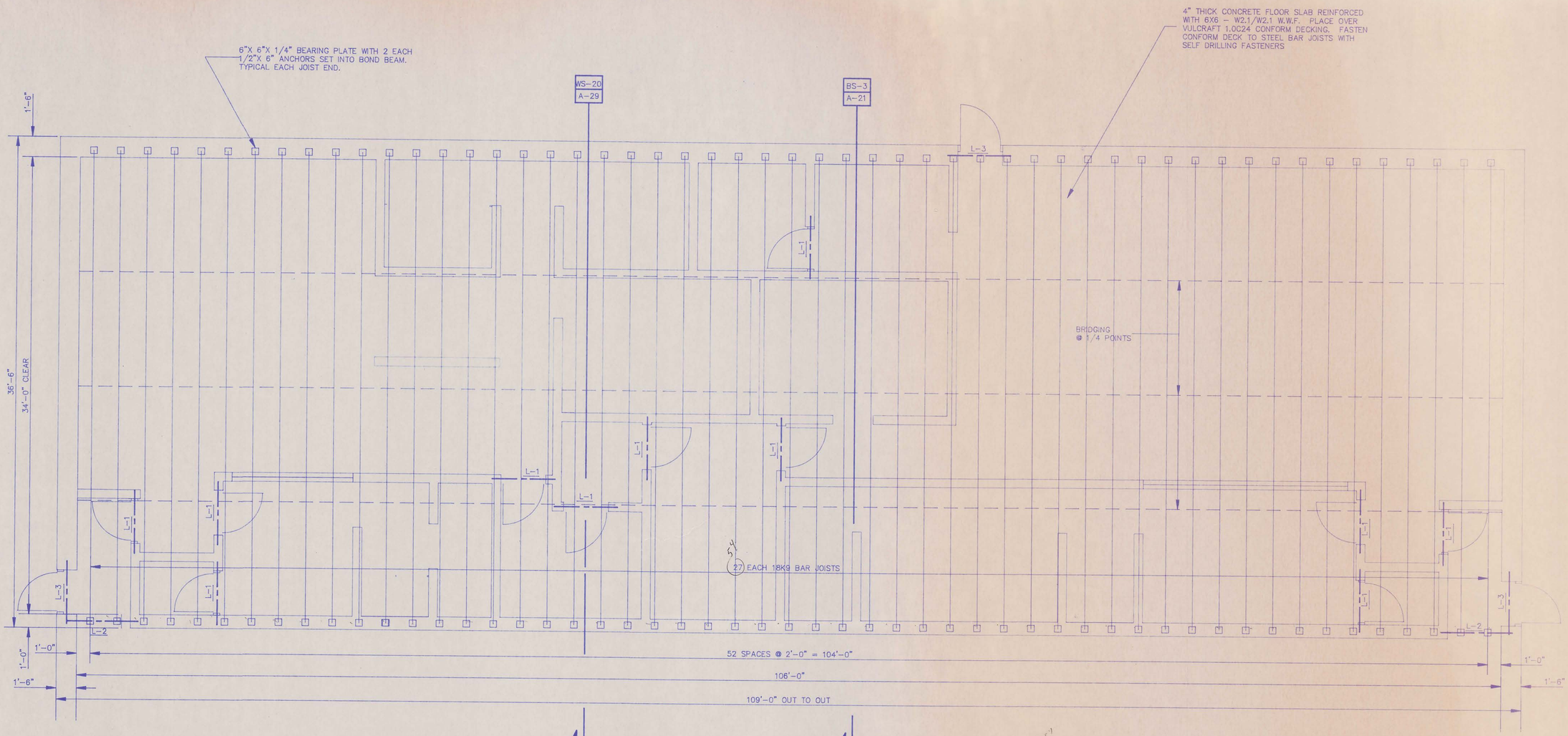
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. | DATE

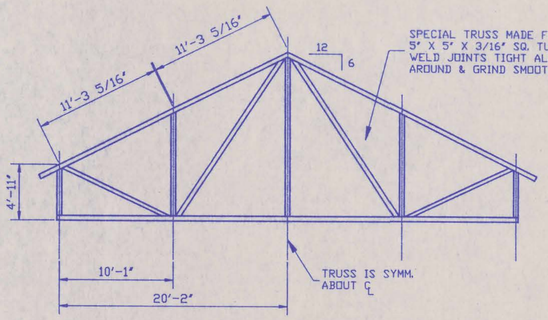
S-4

DATE: SEPTEMBER, 1991



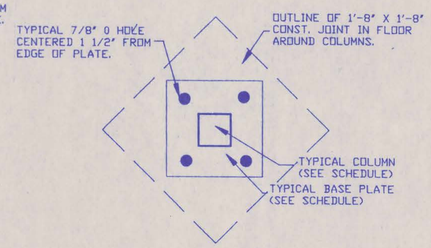
LOCKER ROOM ROOF FRAMING PLAN

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



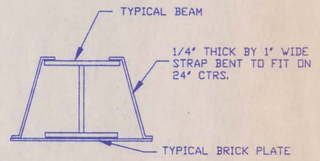
MAIN FRAME TRUSS DETAIL GYMNASIUM ENTRANCE

NO SCALE



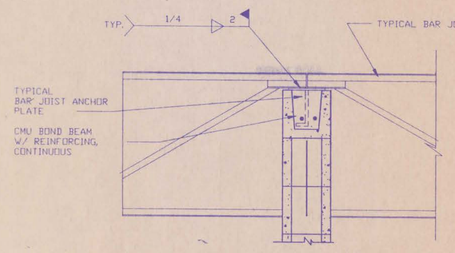
TYPICAL COLUMN BASE PLATE DETAIL

NO SCALE



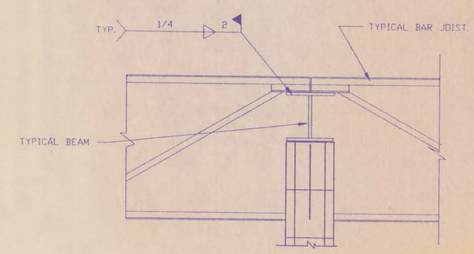
TYPICAL BRICK PLATE SUPPORT DETAIL

NO SCALE



TYPICAL JOIST TO BEARING PLATE CONNECTION

NO SCALE



TYPICAL JOIST TO BEAM CONNECTION

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

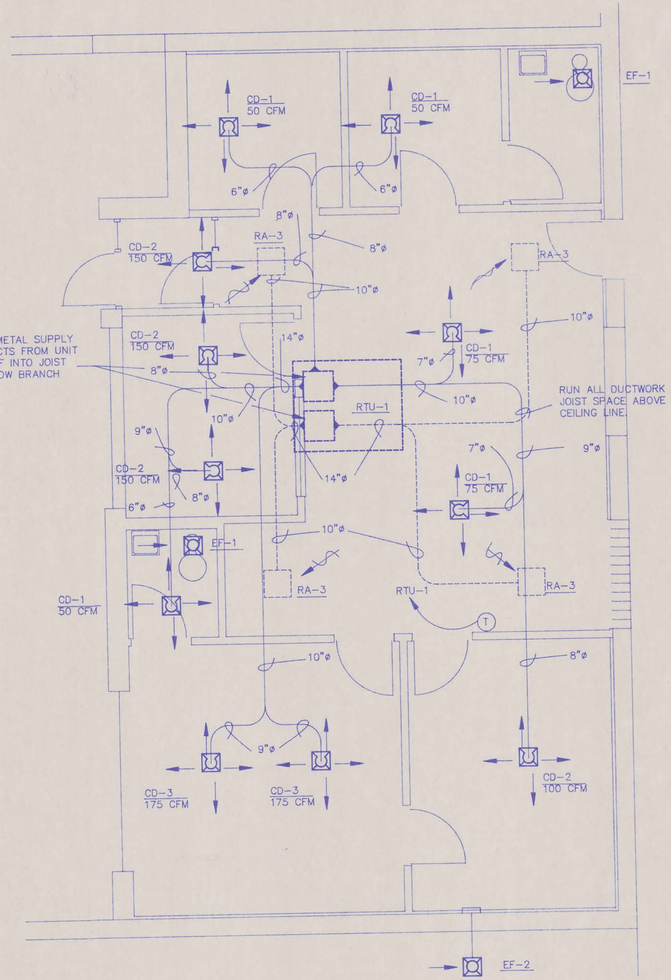
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

S-5

DATE: SEPTEMBER, 1991



ADMINISTRATION AREA H.V.A.C. PLAN

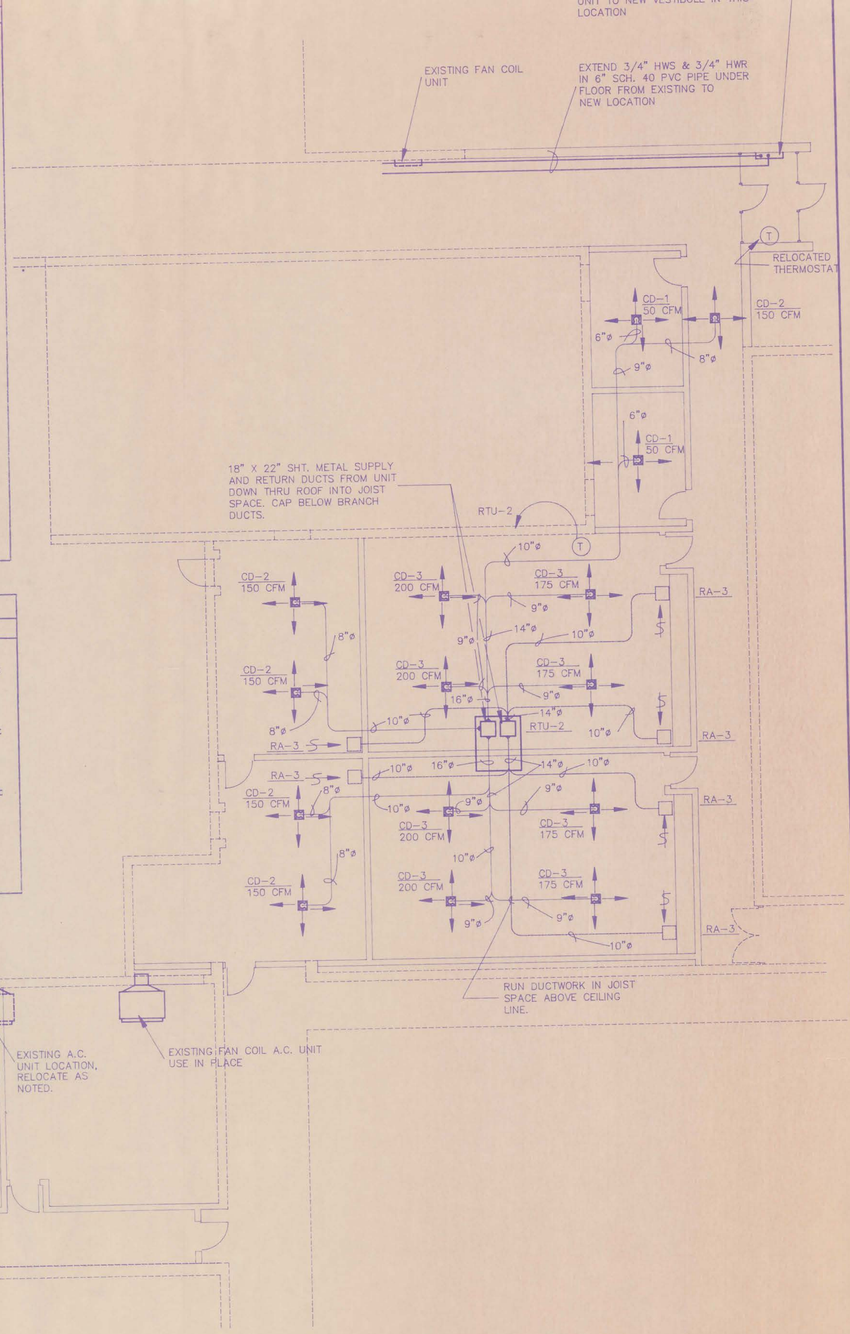
SCALE: 1/4" = 1'-0"

MECHANICAL EQUIPMENT SCHEDULE

MARK	DESCRIPTION
F-1	Lennox Model G14Q5-80 Pulse Upflow Furnace. Output heating capacity shall be 74,000 BTUH. 3/4 HP blower motor. Blower shall provide 1600 CFM at 0.50 in. W.G. static pressure. Furnish complete with VTX-1 vent/intake air kit and T5010 Pro-stat thermostat and locking cover. 120 volt, 1 phase, 60 Hz.
CU-1	Lennox Model HS14-513V Condensing Unit. Unit shall have a cooling capacity of 49,500 BTUH at ARI Std. 210 conditions. Install on concrete pad where shown. Install Lennox C14-65 Evaporator Unit with adapter base on Furnace F-1 and connect to condensing unit with 1/2" liquid and 1-1/8" suction lines. Liquid and suction lines shall be installed below grade and up through mechanical room floor in 3" PVC conduit which shall be sealed weather tight at both ends. Install Lennox LB-53081CB expansion valve kit. 208/230 volt, 3 phase, 60 Hz.
RTU-1	Lennox Model GCS 16-413-50 Rooftop Unit. Unit shall have an output heating capacity of 37,000 BTUH and a cooling capacity of 34,400 BTUH at ARI Std. 210/240 conditions. Install on roof on RMF16-41 Roof Mounting Frame. Furnish complete with REMD16-41 Economizer Package and T5010 Pro-Stat thermostat and locking cover. Blower shall provide 1225 CFM at 0.50 in. W.G. static pressure. 208/230 volt, 3 phase, 60 Hz.
RTU-2	Lennox Model GCS 16-653-75 Rooftop Unit. Unit shall have an output heating capacity of 58,000 BTUH and a cooling capacity of 58,500 BTUH at ARI Std. 210/240 conditions. Install on roof on RMF16-65 Roof Mounting Frame. Furnish complete with REMD16-65 Economizer Package and T5010 Pro-Stat thermostat and locking cover. Blower shall provide 2400 CFM at 0.50 in. W.G. static pressure. 208/230 volt, 3 phase, 60 Hz.
RTU-3	Lennox Model GCS 16-653-125 Rooftop Unit. Unit shall have an output heating capacity of 95,000 BTUH and a cooling capacity of 58,500 BTUH at ARI Std. 210/240 conditions. Install on roof on RMF16-65 Roof Mounting Frame. Furnish complete with REMD16-65 Economizer Package and T5010 Pro-Stat thermostat and locking cover. Blower shall provide 2800 CFM at 0.50 in. W.G. static pressure. 208/230 volt, 3 phase, 60 Hz.
RTA-1	Lennox Model CHA16-1853 Rooftop Unit. Unit shall have a cooling capacity of 179,000 BTUH at ARI Std. 360 conditions. Install on roof on RMF16-185 Roof Mounting Frame. Furnish complete with REMD16M-185 Economizer Package, FD11-185 Supply and Return Diffuser, SRT16-185 Transition and T5010 Pro-Stat thermostat and locking cover. Blower shall provide 7,000 CFM at 1.10 in. W.G. static pressure. 5 HP blower motor. 208/230 volt, 3 phase, 60 Hz.

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION
EF-1	Penn Ventilator Co. Zephyr Model Z6. 90 CFM at 0.125 in. static pressure. Mount recessed in ceiling with decorator grille and exhaust through roof with 6" sheet metal duct and Model 10 FR Roof Cap. 120 volt, 1 phase, 60 Hz. 50 watts.
EF-2	Penn Ventilator Co. Zephyr Model Z8. 165 CFM at 0.25 in. static pressure. Mount recessed in ceiling with decorator grille and exhaust through wall with 8" sheet metal duct and Model WC10 Wall Cap. 120 volt, 1 phase, 60 Hz. 105 watts.
EF-3	Penn Ventilator Co. Zephyr Model Z10I. 490 CFM at 0.125 in. static pressure. Mount recessed in ceiling with decorator grille and exhaust through wall with 10" sheet metal duct or equivalent and Model SL20 Wall Cap. Install with Model LT50 Speed Control. 120 volt, 1 phase, 60 Hz. 240 watts.
NOTE:	Contractor shall provide all ductwork and transitions as required between equipment, ductwork and appurtenances.



CLASSROOM AREA H.V.A.C. PLAN

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

REGISTER AND GRILLE SCHEDULE

SUPPLY AIR REGISTERS - CEILING

Registers up to 12" x 12" size shall be Lima Register Company Series 60 square ceiling diffusers installed in ceiling (T-grid or gypsum board) complete with Series 64 knob operated damper. Specific sizes shall be:

MARK	SIZE	MARK	SIZE	MARK	SIZE	MARK	SIZE
CD-1	6"x6"	CD-2	8"x8"	CD-3	10"x10"	CD-4	12"x12"

Registers over 12" X 12" size shall be Lima Register Company Series 95 FM Ceiling Diffusers complete with No. 411 Core and Series 95 OB Opposed Blade damper. Specific sizes shall be:

MARK	SIZE	MARK	SIZE
CD-5	15"x15"	CD-6	21"x21"

SUPPLY AIR REGISTERS - WALL

Wall Registers shall be Lima Register Company Series 90HVOB installed in ductwork on wall surface at locations shown. Specific sizes shall be:

MARK	SIZE
D-1	20"x18"

RETURN AIR REGISTERS

Return Air Registers shall be Lima Register Company Series 90CC2 square cube core grilles installed in ceiling (T-grid or gypsum board) at locations shown. Specific sizes shall be:

MARK	SIZE	MARK	SIZE	MARK	SIZE	MARK	SIZE
RA-1	8"x8"	RA-2	10"x10"	RA-3	12"x12"	RA-4	14"x14"
RA-5	24"x24"						

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

No.	Date

M-1

DATE: SEPTEMBER

INSTALL NEW 10" X 10" SHT. METAL COMBUSTION AIR DUCT FROM ABLVE ROOF W/ WEATHERPROOF CAP & BIRD SCREEN TO 12" ABOVE FLOOR INSTALL MANUAL DAMPER 24" ABOVE FLOOR

INSTALL NEW 12" X 12" SHT. METAL COMBUSTION AIR DUCT FROM ABLVE ROOF W/ WEATHERPROOF CAP & BIRD SCREEN TO 12" ABOVE FLOOR IN WATER HEATER RM. INSTALL MANUAL DAMPER 24" ABOVE FLOOR.

EXTEND DUCTWORK THROUGH EXISTING WALL AT 12'-0" A.F.F. TO BOTTOM OF DUCT. INSTALL MANUAL VOLUME DAMPER IN DUCT INSIDE EXISTING WALL

EXISTING H.W. UNIT HEATER USE IN PLACE

EXISTING H.W.S. & H.W.R. LINES TO UNIT HEATER. REMOVE & CAP SOURCE.

EXISTING H.W. UNIT HEATER. REMOVE.

EXISTING FAN COIL UNIT LOCATION

RELOCATE THERMOSTAT

EXTEND 1"ø HWS & HWR IN TUNNEL TO RELOCATED UNIT

RELOCATE EXISTING FAN COIL UNIT TO NEW VESTIBULE THIS LOCATION

NOTE: SHEET METAL, DUCTWORK, DIFFUSERS, INSULATION, ETC. IN THE GYMNASIUM/STAGE AREA WILL BE EXPOSED AND PAINTED AS A FINISHED SURFACE. ALL WORK WILL BE EXPERTLY FABRICATED AND INSTALLED NEATLY TO THE ARCHITECT'S SATISFACTION.

18"X22" SHT. MTL. S.A. DUCT FROM UNIT DOWN THRU ROOF INTO JOIST SPACE. CAP BELOW 18"ø BRANCH DUCTS TYPICAL ALL RTU-3 UNITS

SHT. MTL. R.A. DUCT TRANSITION FROM 18"X22" AT UNIT TO 24"X 24" AT RETURN AIR GRILL BELOW ROOF. TYPICAL RTU-3 UNITS

18"X36" SHT.MTL. S.A. AND R.A. DUCT FROM UNIT DOWN THRU ROOF TO COMBINATION SUPPLY/RETURN DIFFUSER FURNISHED WITH UNIT. SET DIFFUSER FLUSH WITH BOTTOM OF JOISTS. TYPICAL RTA-1 UNITS

NOTE: SHEET METAL DUCT IN THIS AREA WILL BE EXPOSED AND PAINTED AS FINISHED SURFACE. DUCT SHALL BE EXPERTLY FABRICATED AND INSTALLED NEATLY TO ARCHITECTS SATISFACTION.

24"X10" SHT. MTL. DUCT W/1" INTERIOR INSUL. LINER RUN TIGHT TO WALLS & VAULTED CEILING

PHYSICAL EDUCATION AREA H.V.A.C. FLOOR PLAN

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

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

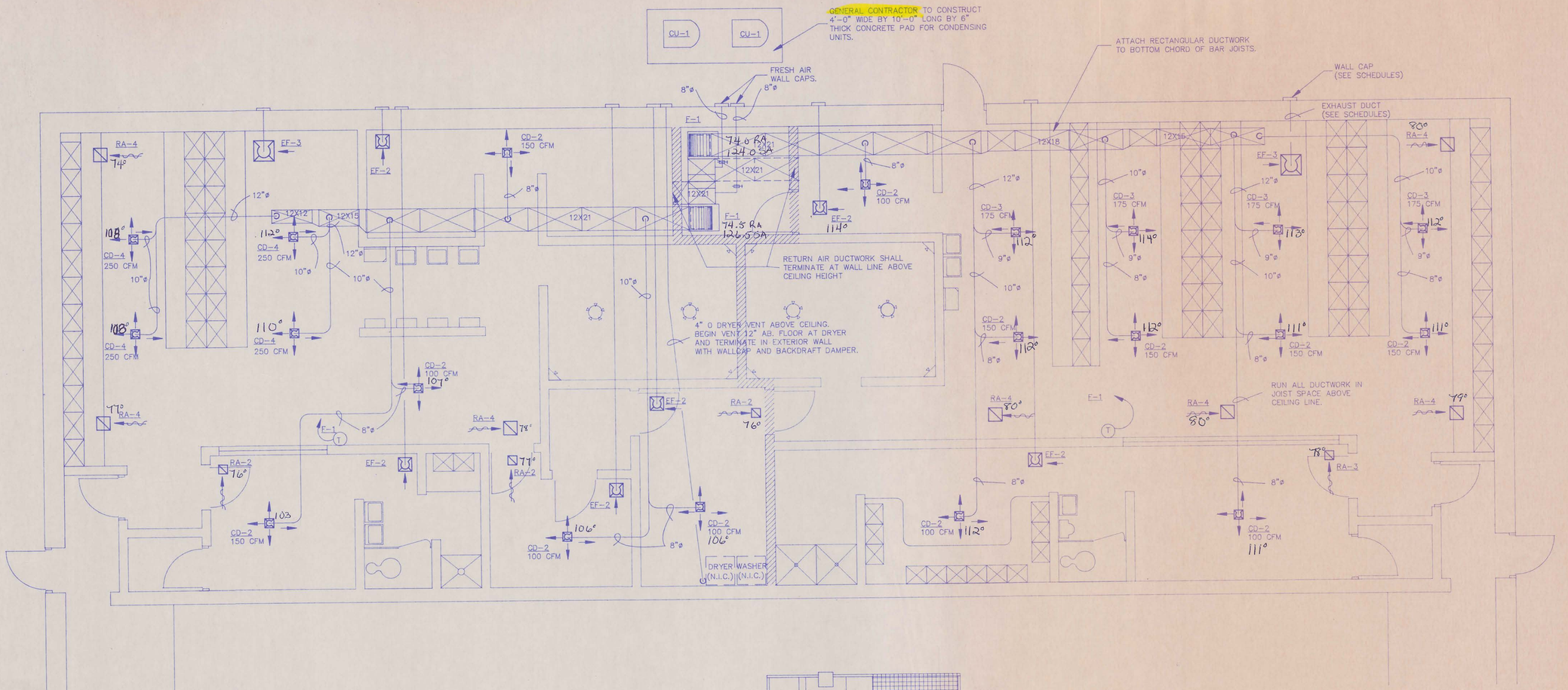
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

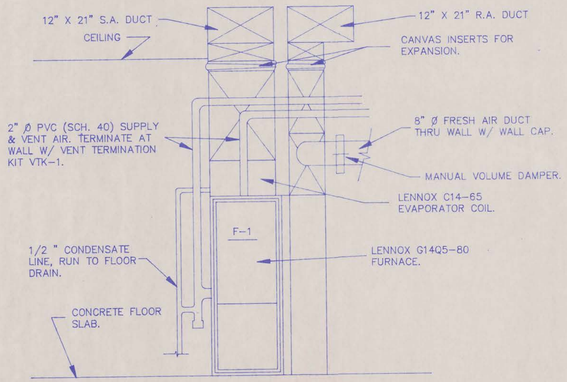
M-2

DATE: SEPTEMBER, 1993



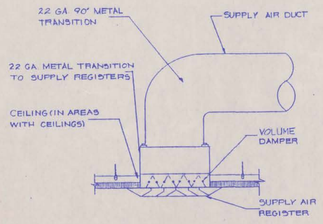
LOCKER ROOM H.V.A.C. PLAN

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



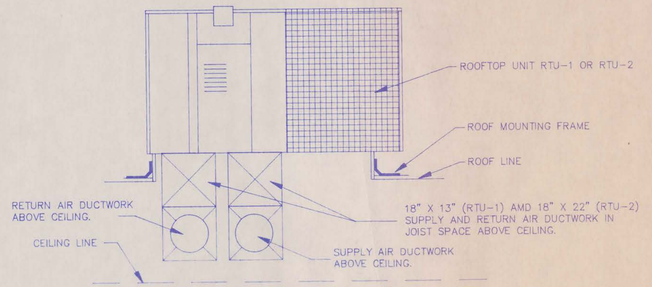
FURNACE F-1 DETAIL

NO SCALE

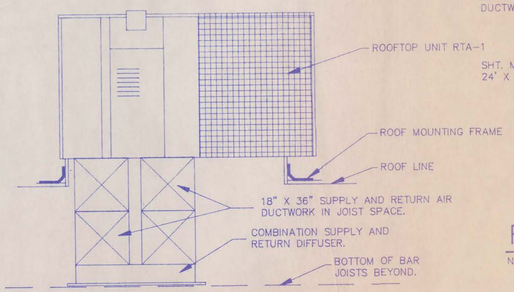


SUPPLY AIR REGISTER DETAIL

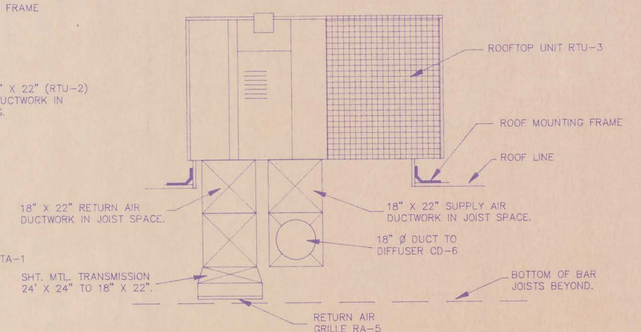
NO SCALE



ROOFTOP UNITS RTU-1 & RTU-2



ROOFTOP UNIT RTA-1



ROOFTOP UNIT RTU-3

ROOFTOP HVAC UNITS MOUNTING DETAILS

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

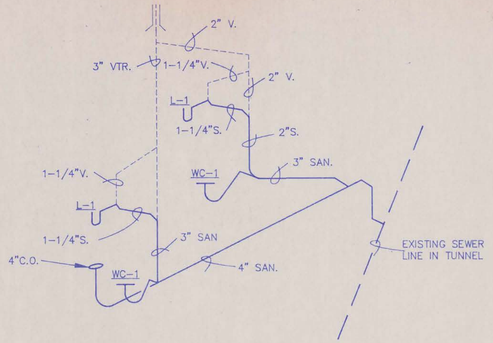
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

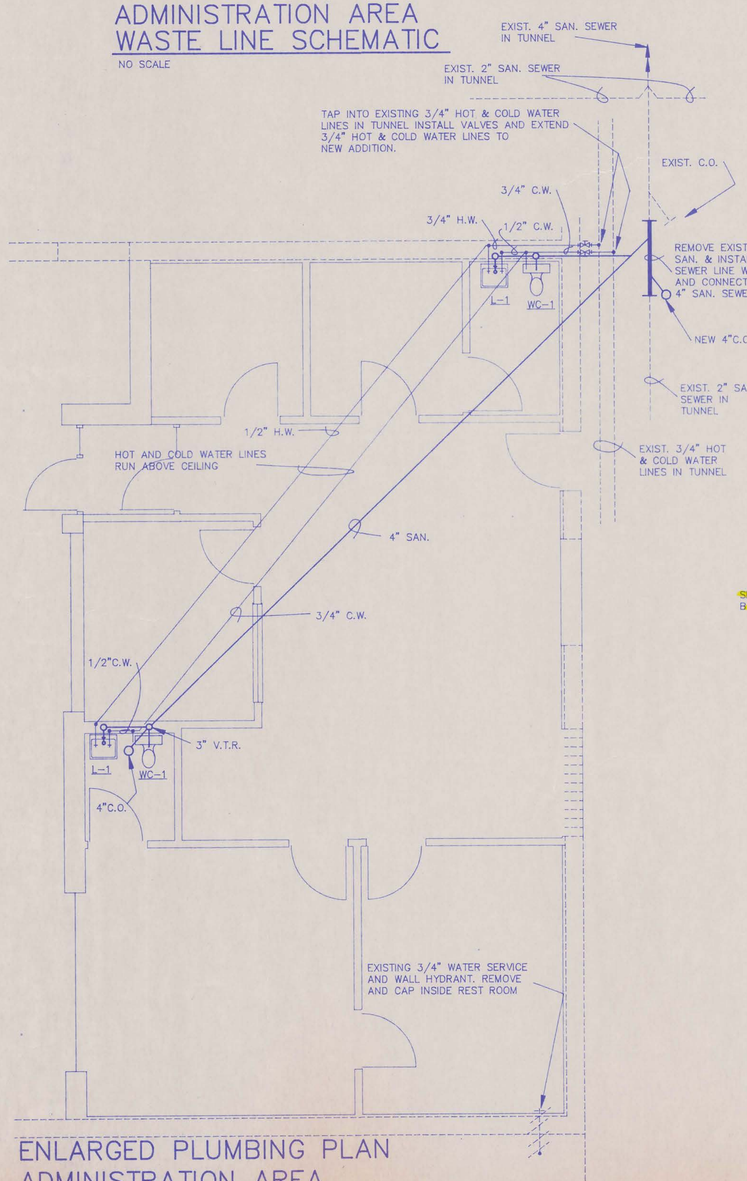
M-3

DATE: SEPTEMBER, 1991



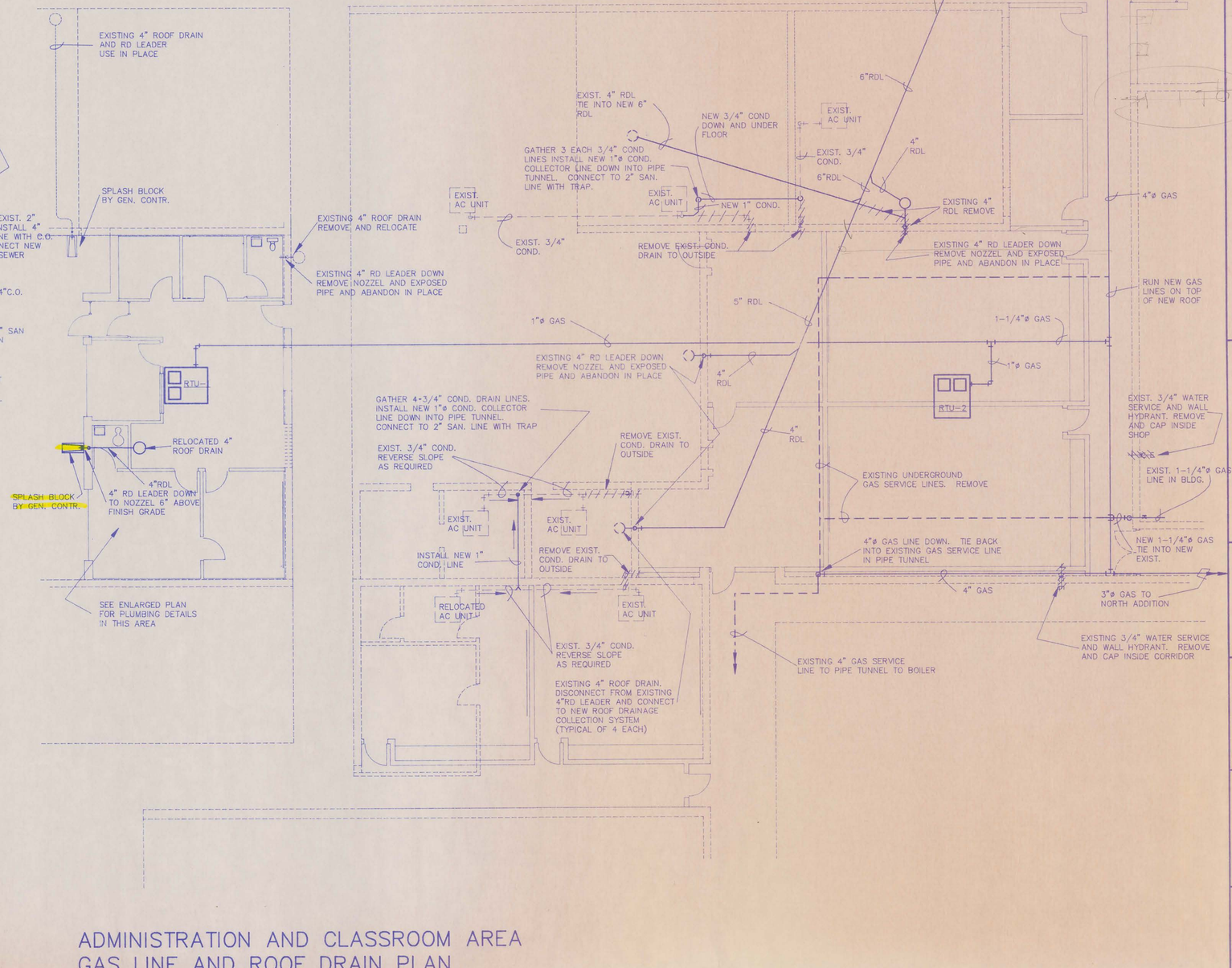
ADMINISTRATION AREA WASTE LINE SCHEMATIC

NO SCALE



ENLARGED PLUMBING PLAN ADMINISTRATION AREA

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



ADMINISTRATION AND CLASSROOM AREA GAS LINE AND ROOF DRAIN PLAN

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

M-4

DATE: SEPTEMBER, 1991

NEW 8" RD LEADER DOWN IN STORAGE RM. TO BELOW FLOOR. RUN TO NEW STORM DRAIN INLET IN STREET. SEE SITE PLAN.

NEW 8" SEWER
EST. INV. @ 62.20

EST. INV. = 63.23
NEW 6" BLDG. OUTFALL MAIN

3"ϕ GAS TO CENTER CLASSROOM ADDITION

3"ϕ GAS

8"RDL

WH-1

2"ϕ GAS

8"RDL

6"RDL

4"RD

5"RDL

4"RD

4"RDL

4"RD

NEW 6" RDL TIE INTO EXIST. & EXTEND

EXIST. 6" RD LEADER DOWN. REMOVE NOZZLE & EXPOSED PIPE & ABANDON IN PLACE.

1"ϕ GAS

RTU-2

RTU-3

RTU-3

RTU-3

3"ϕ GAS

6"RDL

1¼"ϕ GAS

1¼"ϕ GAS

3"ϕ GAS

2½"ϕ GAS

2½"ϕ GAS

RUN ALL GAS LINES ON ROOF

1½"ϕ GAS

1½"ϕ GAS DOWN TO MECH. RM.

1¼"ϕ GAS

5"RDL

RTU-3

1¼"ϕ GAS

SEE ENLARGED PLAN FOR PLUMBING DETAILS IN LOCKER AREA

4"RD

1¼"ϕ GAS

RTU-3

4"RDL

5"RDL

4"RDL

4"RD

4"RD

4"RD

2"ϕ GAS

4"RD

6"SAN. SEWER LINE ON ⅛" PER FT. SLOPE

1¼"ϕ GAS

1¼"ϕ GAS

RTU-3

4"ϕ SEWER INVERT ELEV. 67.24

SAN. SEWER LINE INVERT ELEV. 64.84

6"ϕ CLEANOUT

4"SAN. SEWER LINE ON ¼" PER FT. SLOPE

SEE ENLARGED PLAN FOR PLUMBING DETAILS THIS AREA

4"RD

4"RD

4"RD LEADER DOWN TO NOZZLE 6" AB. FIN. GRD.

SPLASH BLOCK BY GEN. CONTR.

4"RD LEADER DOWN TO NOZZLE 6" AB. FIN. GRD.

4"RD

4"RD

4"RD LEADER DOWN TO NOZZLE 6" AB. FIN. GRD.

PHYSICAL EDUCATION AREA GAS LINE & ROOF DRAIN PLAN

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

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

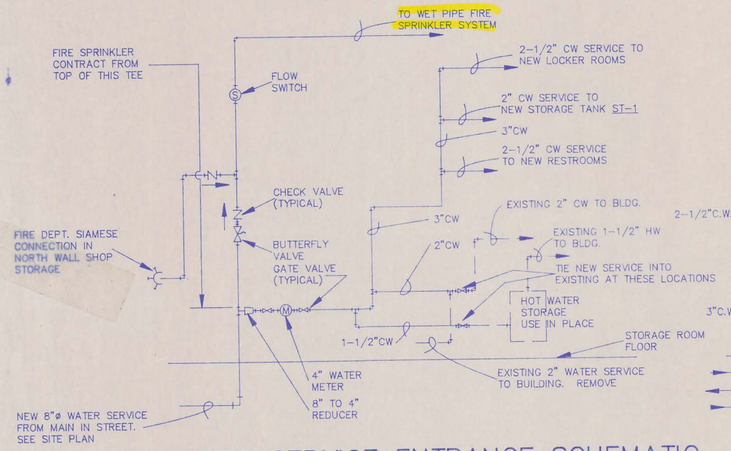
REVISIONS

NO.	DATE

M-5

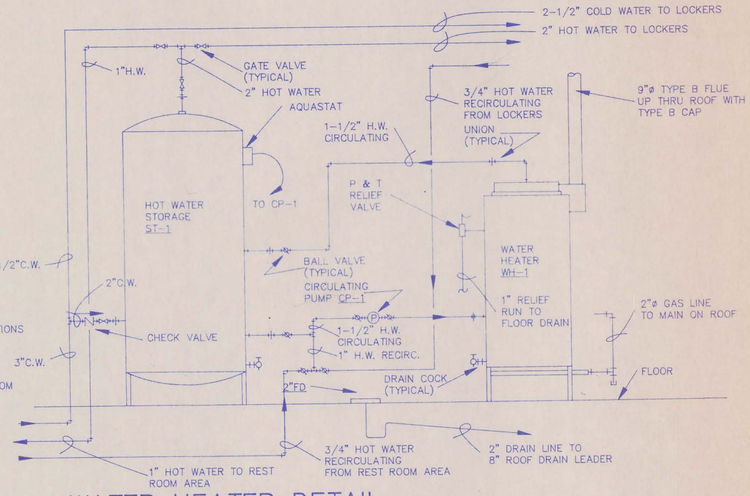
DATE: SEPTEMBER, 1991

STANDARDBLUE, OMAHA



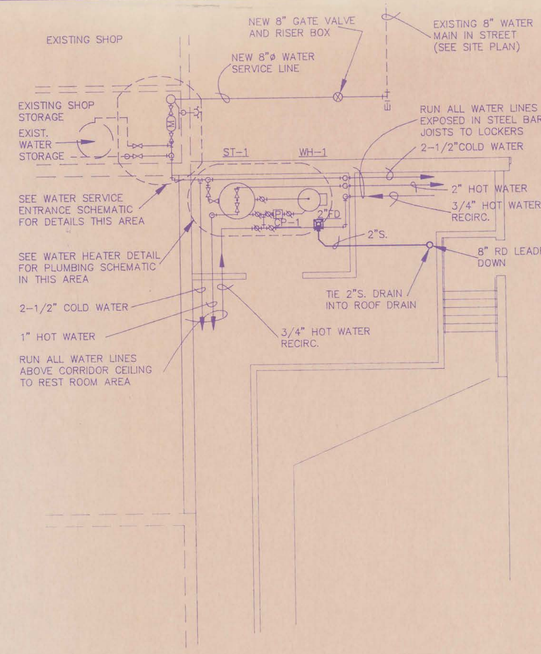
WATER SERVICE ENTRANCE SCHEMATIC

NO SCALE



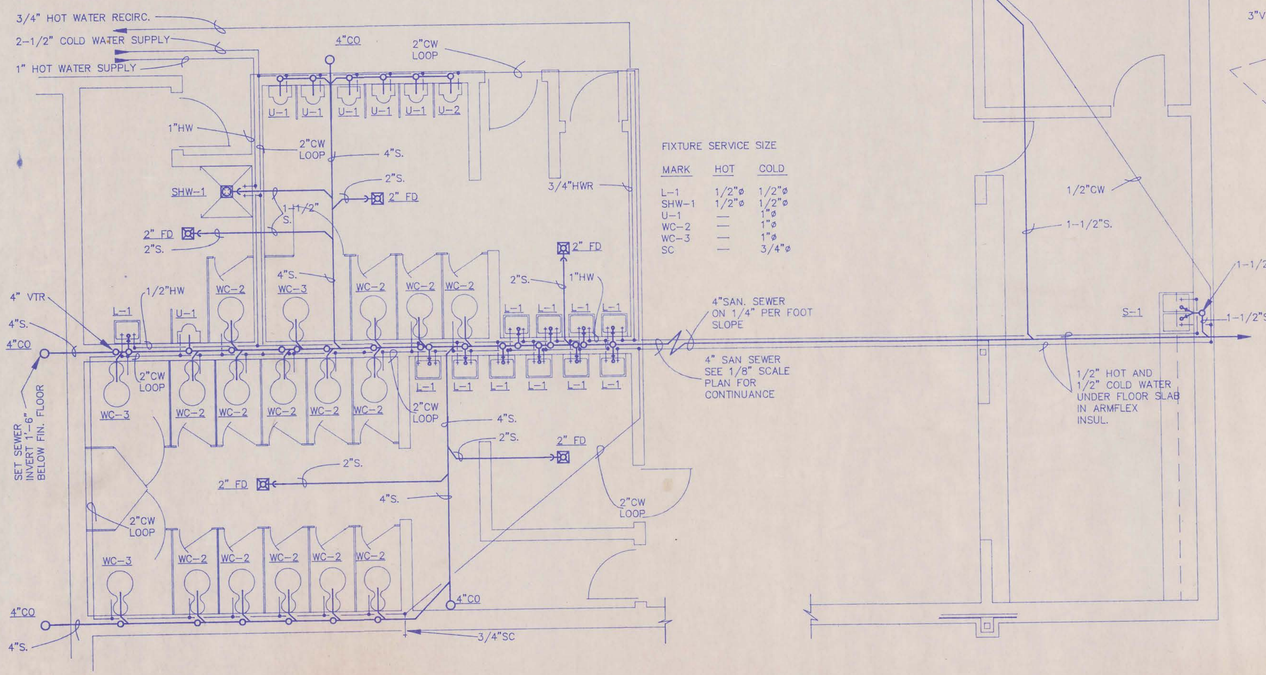
WATER HEATER DETAIL

NO SCALE



MEZZANINE LEVEL WATER HEATER AND WATER STORAGE ROOM DETAIL

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

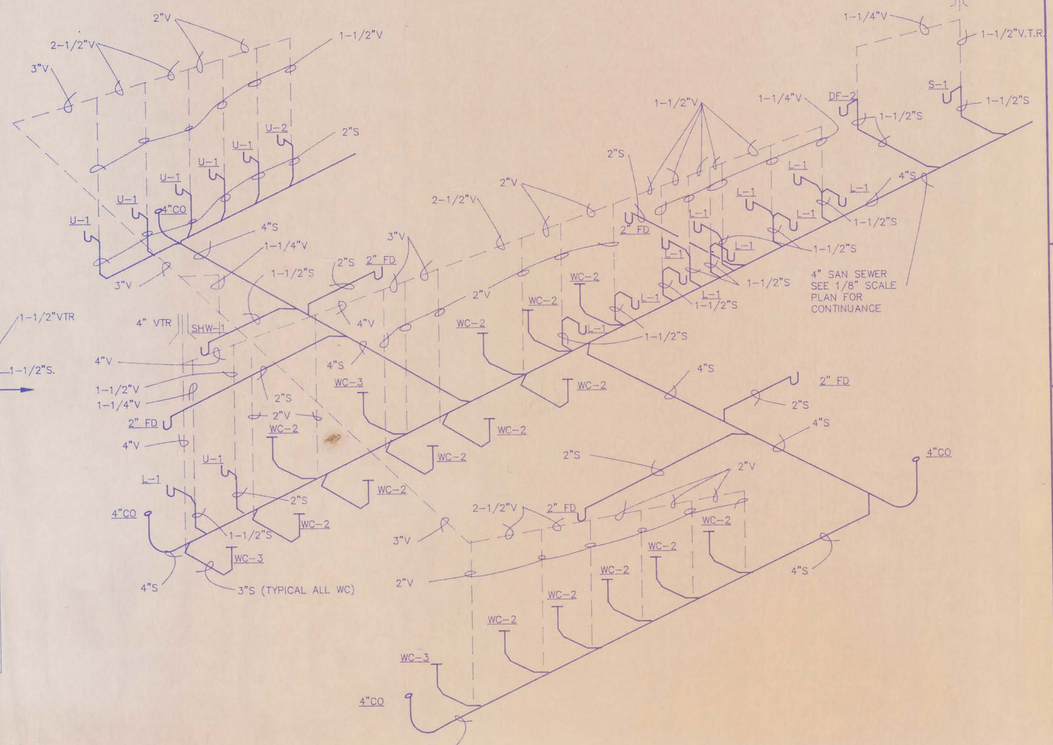


FIXTURE SERVICE SIZE

MARK	HOT	COLD
L-1	1/2"ø	1/2"ø
SHW-1	1/2"ø	1/2"ø
U-1	—	1"ø
WC-2	—	1"ø
WC-3	—	1"ø
SC	—	3/4"ø

PUBLIC REST ROOM PLUMBING PLAN

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



PUBLIC REST ROOM WASTE SCHEMATIC

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

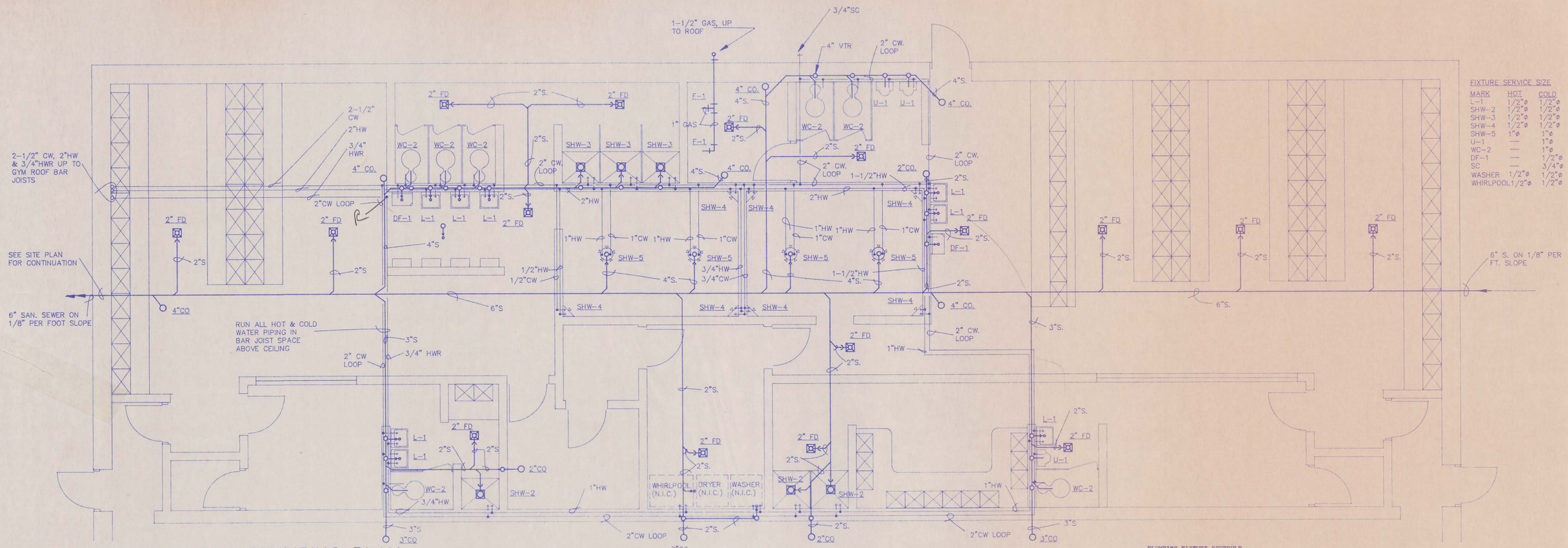
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

M-6

DATE: SEPTEMBER, 1991

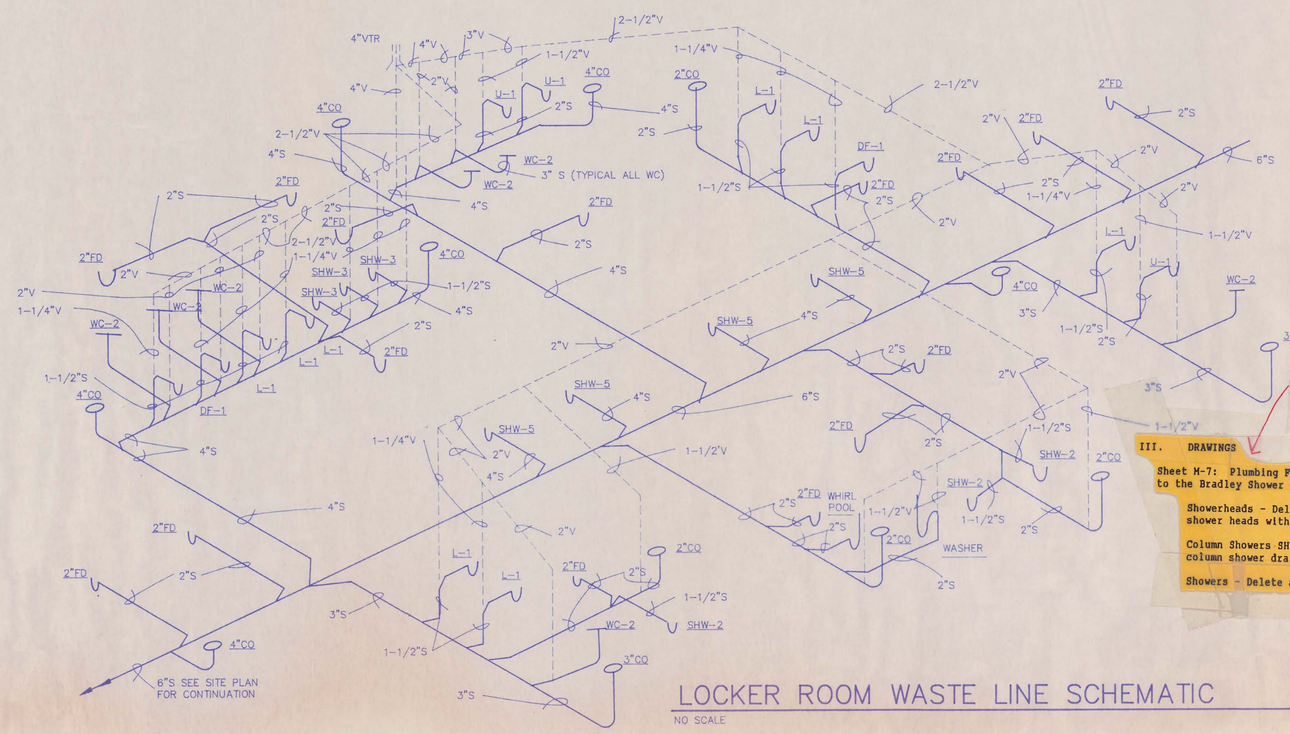


FIXTURE SERVICE SIZE

MARK	HOT	COLD
L-1	1/2"ø	1/2"ø
SHW-2	1/2"ø	1/2"ø
SHW-3	1/2"ø	1/2"ø
SHW-4	1/2"ø	1/2"ø
SHW-5	1"ø	1"ø
U-1	—	1"ø
WC-2	—	1"ø
DF-1	—	1/2"ø
SC	—	3/4"ø
WASHER	1/2"ø	1/2"ø
WHIRLPOOL	1/2"ø	1/2"ø

LOCKER ROOM PLUMBING PLAN

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



LOCKER ROOM WASTE LINE SCHEMATIC

NO SCALE

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION
WC-1	Kohler, Wellworth, K-3520-RB with K-4670-C Seat and K-7637 Angle Supply with Stop and Tube.
WC-2	Kohler, Downing, K-4262-ET with K-4670-C Seat and Sloan 110 Flush Valve.
WC-3	Kohler Highcliff, K-4268-ET with K-4670-C Seat and Sloan 110 Flush Valve.
U-1	Kohler, Derry, K-5007-T with Sloan 181 Flush Valve. Standard Mounting Height.
U-2	Kohler Derry, K-5007-T with Sloan 181 Flush Valve. Handicapped Mounting Height.
L-1	Kohler, Hudson, K-2861 with K-15582 Faucet, K-8998 "P" Trap and K-7605 Angle Supplies with Stops.
DF-1	Elkay Model EWCA-4 Water Cooler. 4.0 GPH Capacity. 120 Volts, 1 Phase, 60 Hz, 180 Watts.
DF-2	Elkay Model OEP8WM-D Water Cooler. 7.8 GPH Capacity. 120 volts, 1 Phase, 60 Hz, 180 Watts.
S-1	Elkay Model LR-2918 Double Compartment Stainless Steel Sink. Furnish with LK-2101 Faucet, Strainers, "P"Traps and Angle Supplies with Stops.
SHW-1	Mustee Durastall Model 150 Shower Stall. 36" x 36" size. Furnish complete with standard door. Install with Bradley Type 1E Fixture with PB Mixing valve, SF Deluxe Showerhead, SD Soap Dish and 1-1/2" Floor Drain with integral trap. Set shower head at 6'-0" height.
SHW-2	Mustee Durastall Model 144 Shower Stall. 36" x 36" size. Furnish complete with standard door. Install with Bradley Type 1E Fixture with PB Mixing valve, SF Deluxe Showerhead, SD Soap Dish and 1-1/2" Floor Drain with integral trap. Set shower head at 6'-0" height.
SHW-3	Bradley Type 1E Fixture with PB Mixing valve, SF Deluxe Showerhead, SD Soap Dish and 1-1/2" Floor Drain with integral trap. Set shower head at 5'-6" height. Furnish and install Bradley Modesty Module similar to layout MM4027 around 3 each units. Modules shall have enamel finish and shall be complete with HR Herculite curtains, bench seat and clothes hook.
SHW-4	Bradley Type 1K Fixture with PB Mixing valve, SF Deluxe Showerhead, SD Soap Dish and SH Shroud Assembly. Set shower head at 6'-0" Height in Boy's Shower and 5'-6" height in Girl's Shower.
SHW-5	Bradley Type 5CO Fixture with PB Mixing valve, SF Deluxe Showerheads, SH Telescoping Shroud and ~~CO Over Trap Drain~~. Shower head shall be at 6'-0" Height in Boy's Shower and 5'-6" height in Girl's Shower.
CO	Smith 4031 Series with Nickel Bronze Top. Size as shown on Plan.
FD	Smith 2005-A Series with Nickel Bronze Strainer. Size as shown on Plan.
RD	Josam 26010 Series with Deck Clamp, Polypropylene Dome and Series 25010 Nozzle, Rough Bronze. Size as shown on Plan.
WH-1	A.O. Smith Model BT-500 Natural Gas fired water heater. 500,000 BTUH Input. 69 Gal. capacity. 505 Gal. per hour recovery at 90° rise.
ST-1	A.O. Smith Model T-1000 Glass Lined storage tank. 1000 Gal. capacity. Mount vertically on 3" pipe standards and install where shown. Furnish complete with 2 3/4" Foam Jacket, Velcro fastened.
CP-1	Bell and Gossett Series PR circulating pump. 10 GPM at 16 ft. TDH. 1-1/2" flange size. 1/6 horsepower, 120 volts, 1 phase 60 Hz.

Sheet M-7 - Plumbing Fixture Schedule

SHW-3 Shower Partitions shall be Stainless Steel.

III. DRAWINGS

Sheet M-7: Plumbing Fixture Schedule. The following changes shall be made to the Bradley Shower Equipment specified.

Showerheads - Delete all "SF" Deluxe Shower Heads. Provide "Standard" shower heads with 2.5 fc flow controls.

Column Showers SHW-5 - Delete dome grate option (DG). PRovide Standard column shower drains.

Showers - Delete all #1E Showers. Provide all #1W Showers.

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

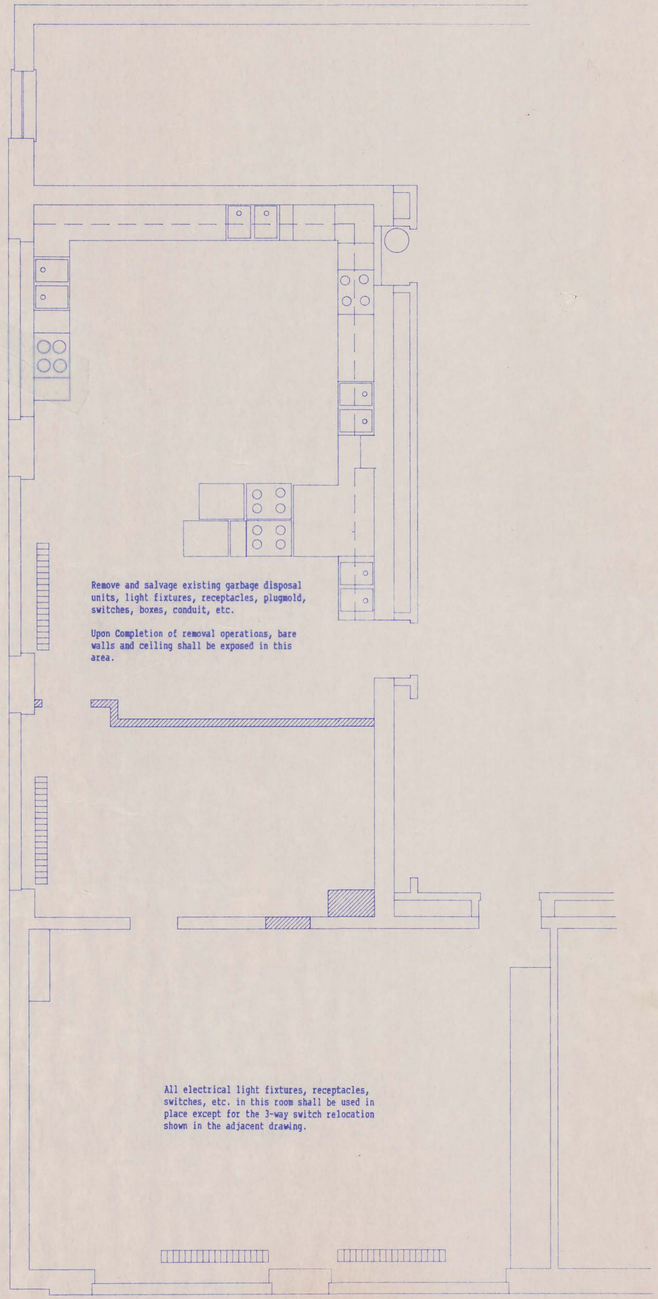
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69901

REVISIONS

No.	DATE

M-7

DATE: SEPTEMBER, 1991



HOME ECONOMICS - EXISTING

1/8" = 1'-0"

ELECTRICAL NOTES

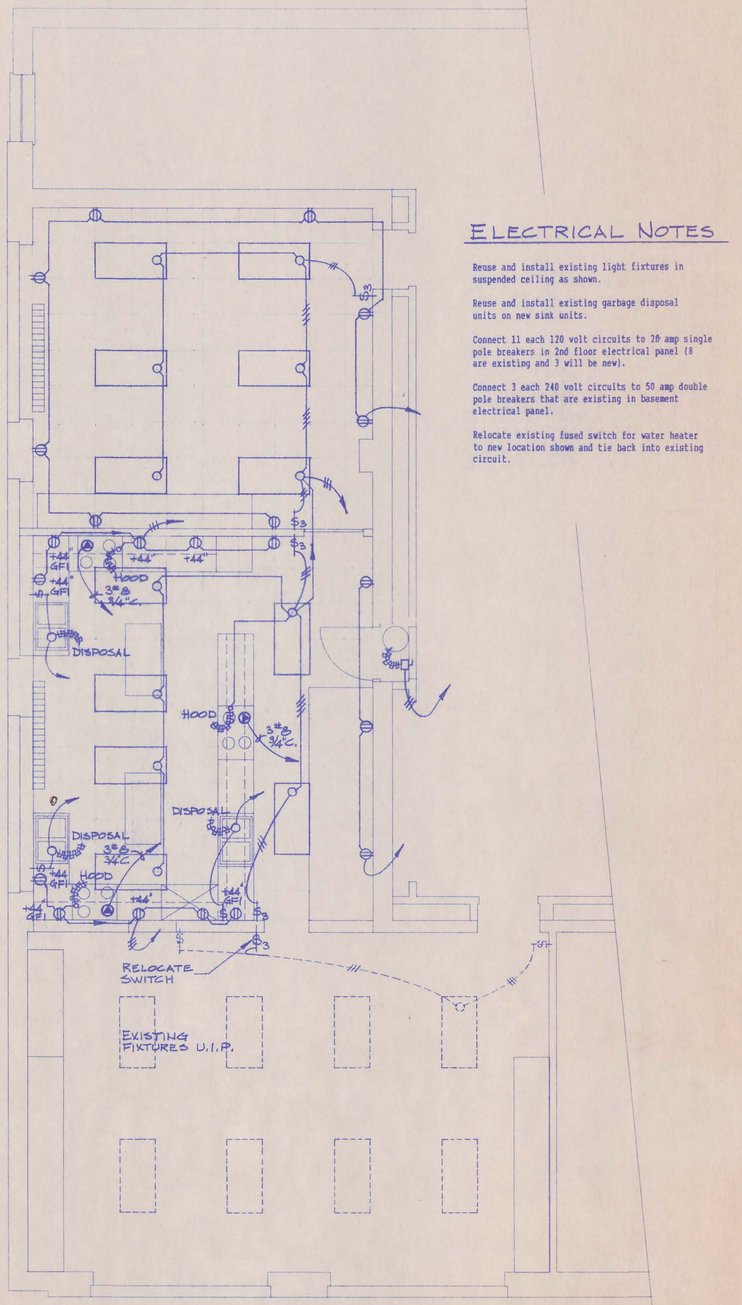
Reuse and install existing light fixtures in suspended ceiling as shown.

Reuse and install existing garbage disposal units on new sink units.

Connect 11 each 120 volt circuits to 20 amp single pole breakers in 2nd floor electrical panel (8 are existing and 3 will be new).

Connect 3 each 240 volt circuits to 50 amp double pole breakers that are existing in basement electrical panel.

Relocate existing fused switch for water heater to new location shown and tie back into existing circuit.



HOME ECONOMICS - ELECTRICAL REVISIONS

1/8" = 1'-0"

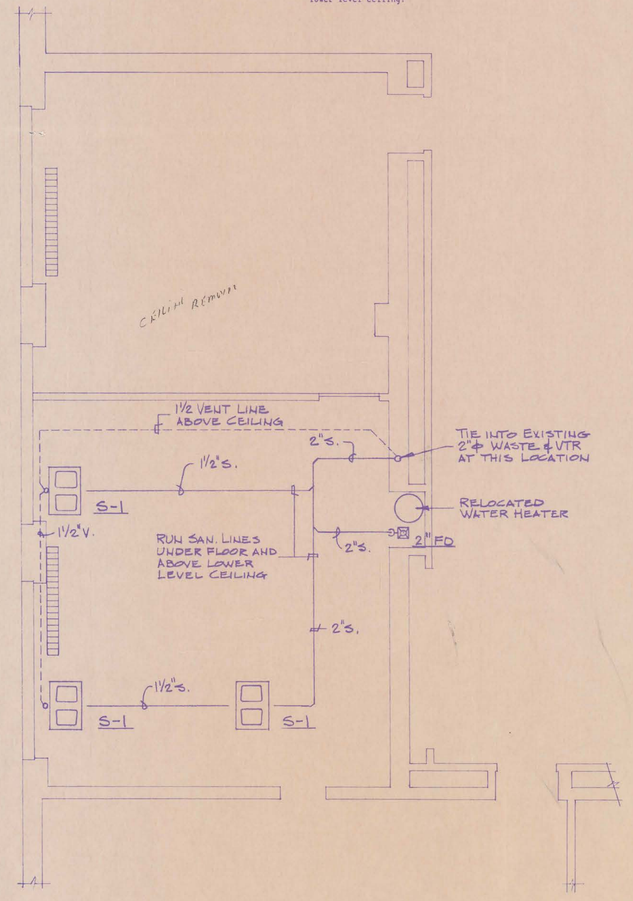
PLUMBING NOTES

Relocate existing steam radiators to new location shown and tie back into existing steam lines below floor.

Relocate existing water heater to new location shown and extend 3/4" cold water service to relocated unit.

Extend hot and cold water lines from existing locations to new sink locations using 3/4" lines to all but the final fixture service which shall be 1/2".

All water lines shall be run below floor and above lower level ceiling.



HOME ECONOMICS - PLUMBING REVISIONS

1/8" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

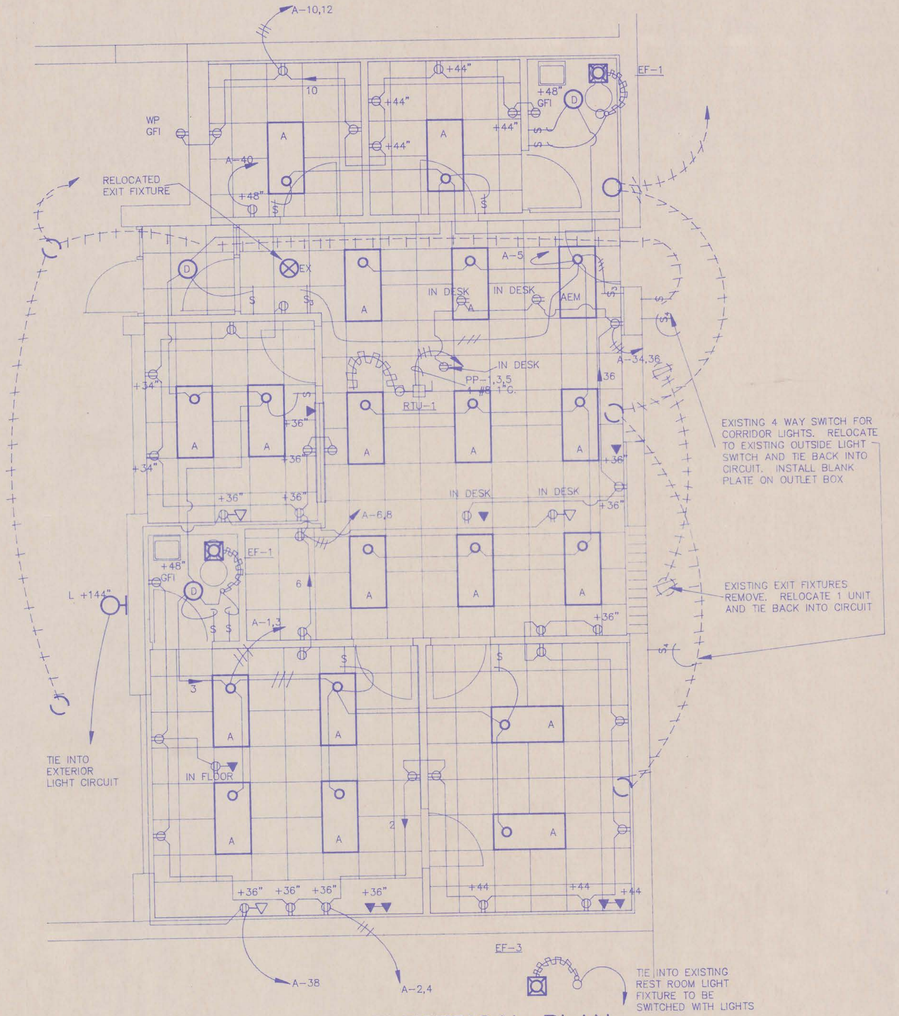
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

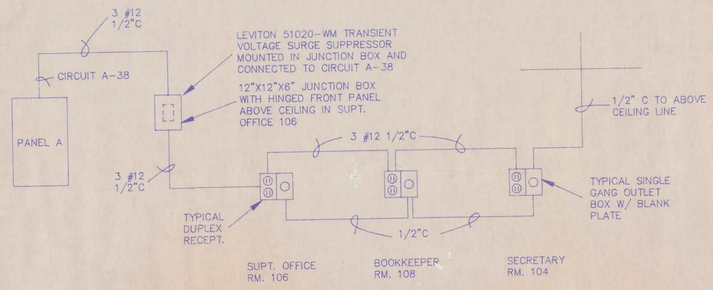
ME-1

DATE: SEPTEMBER, 1991



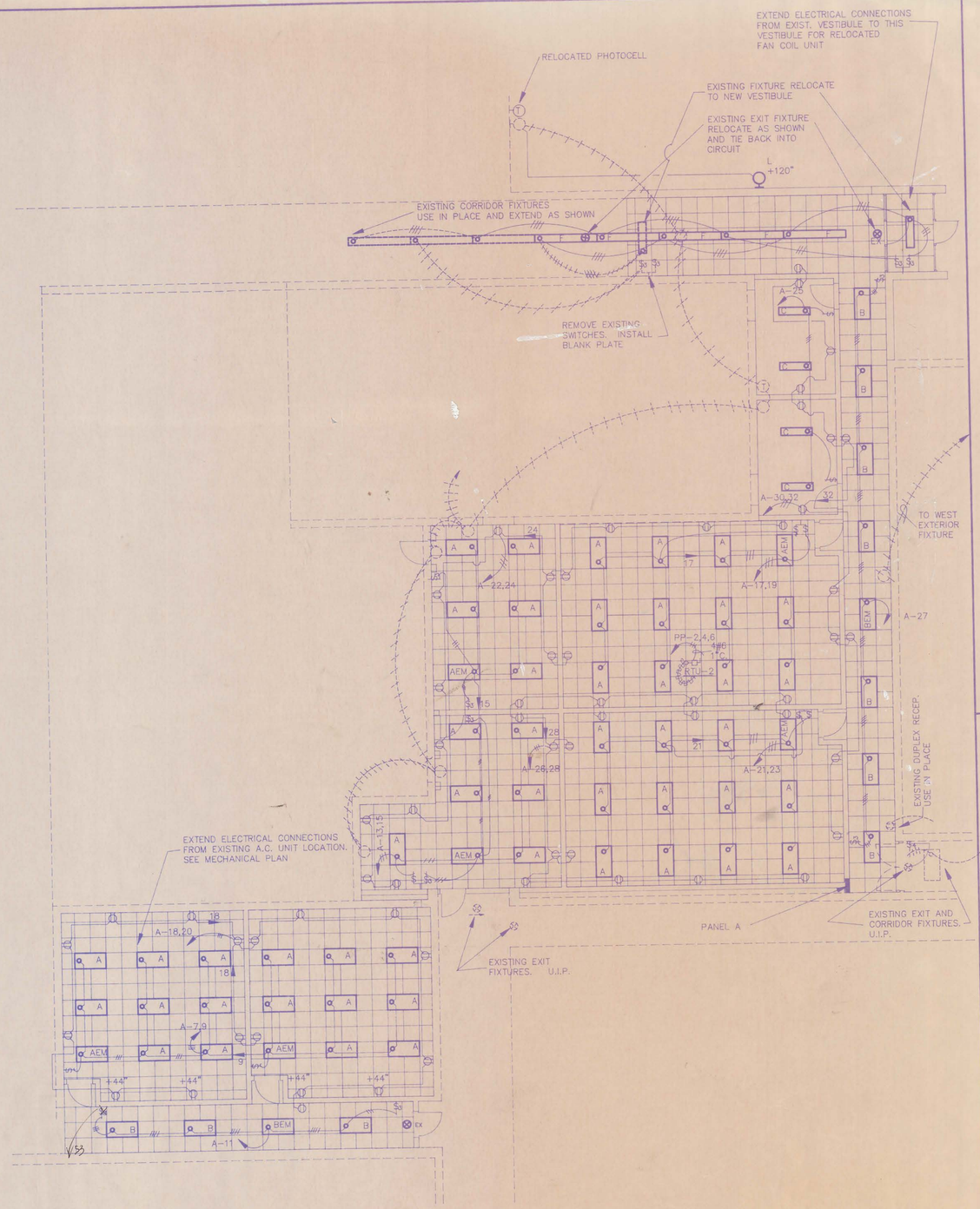
ADMINISTRATION AREA ELECTRICAL PLAN

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



SPECIAL SURGE PROTECTED RECEPTACLE DIAGRAM

NO SCALE



CLASSROOM AREA ELECTRICAL PLAN

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

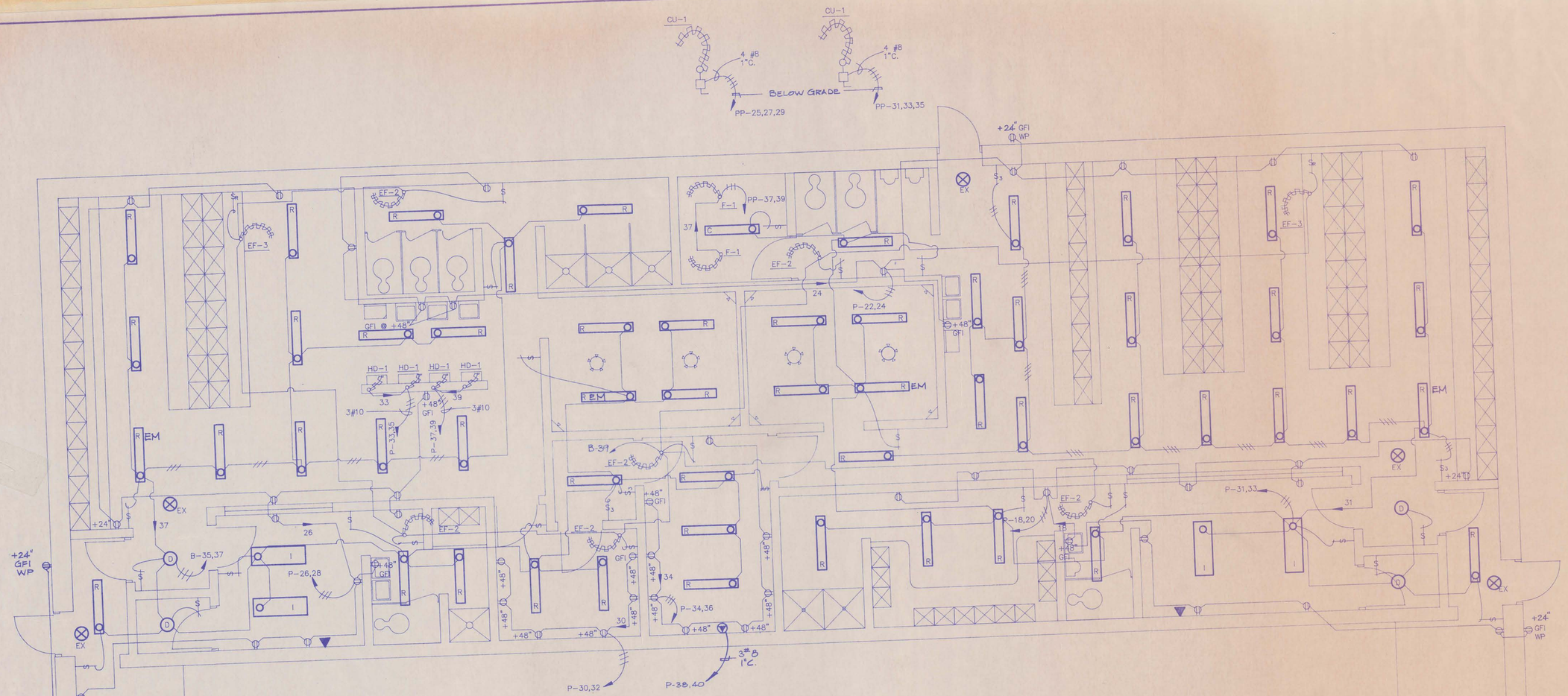
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

E-1

DATE: SEPTEMBER, 1993



LOCKER ROOM ELECTRICAL PLAN

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

PANEL A

BRKR AMPS	POLE	CIRCUIT NO.	LINE	CIRCUIT NO.	POLE	BRKR AMPS
20	1	1	1	2	1	20
20	1	3	2	4	1	20
20	1	5	1	6	1	20
20	1	7	2	8	1	20
20	1	9	1	10	1	20
20	1	11	2	12	1	20
20	1	13	1	14	1	20
20	1	15	2	16	1	20
20	1	17	1	18	1	20
20	1	19	2	20	1	20
20	1	21	1	22	1	20
20	1	23	2	24	1	20
20	1	25	1	26	1	20
20	1	27	2	28	1	20
Space		29	1	30	1	20
		31	2	32	1	20
		33	1	34	1	20
		35	2	36	1	20
		37	1	38	1	20
Space		39	2	40	1	Space
		41	1	42		

EMD = 31.0 KW
225 AMP MLO
Flush Panel
120/240V. 1 Ph. 3 Wire

PANEL B

BRKR AMPS	POLE	CIRCUIT NO.	LINE	CIRCUIT NO.	POLE	BRKR AMPS
20	1	1	1	2	1	20
20	1	3	2	4	1	20
20	1	5	1	6	1	20
20	1	7	2	8	1	20
20	1	9	1	10	1	20
20	1	11	2	12	1	20
20	1	13	1	14	1	20
20	1	15	2	16	1	20
20	1	17	1	18	1	20
20	1	19	2	20	1	20
20	1	21	1	22	1	20
20	1	23	2	24	1	20
20	1	25	1	26	1	20
20	1	27	2	28	1	20
20	1	29	1	30	1	20
20	1	31	2	32	1	20
20	1	33	1	34	1	20
20	1	35	2	36	1	20
20	1	37	1	38	1	20
20	1	39	2	40	1	20
	Space	41	1	42	Space	

EMD = 55.4 KW
400 AMP MAIN BRKR.
Surface Panel
120/240V. 1 Ph. 3 Wire

PANEL C

BRKR AMPS	POLE	CIRCUIT NO.	LINE	CIRCUIT NO.	POLE	BRKR AMPS
20	1	1	1	2	1	20
20	1	3	2	4	1	20
20	1	5	1	6	1	20
20	1	7	2	8	1	20
20	1	9	1	10	1	20
20	1	11	2	12		Space
20	1	13	1	14		
Space		15	2	16		
		17	1	18		
		19	2	20		
		21	1	22		
		23	2	24		
		25	1	26		
		27	2	28		
		29	1	30		
		31	2	32		
		33	1	34		
		35	2	36		
		37	1	38		
		39	2	40		
Space		41	1	42		Space

EMD = 30.0 KW Est.
225 AMP MAIN BRKR.
Surface Panel
120/240V. 1 Ph. 3 Wire

PANEL P

BRKR AMPS	POLE	CIRCUIT NO.	LINE	CIRCUIT NO.	POLE	BRKR AMPS
20	1	1	1	2	1	20
20	1	3	2	4	1	20
20	1	5	1	6	1	20
20	1	7	2	8	1	20
20	1	9	1	10	1	20
20	1	11	2	12	1	20
20	1	13	1	14	2	30
20	1	15	2	16		
20	1	17	1	18	1	20
20	1	19	2	20	1	20
20	1	21	1	22	1	20
20	1	23	2	24	1	20
20	1	25	1	26	1	20
20	1	27	2	28	1	20
20	1	29	1	30	1	20
20	1	31	2	32	1	20
30	1	33	1	34	1	20
30	1	35	2	36	1	20
30	1	37	1	38	2	30
30	1	39	2	40		SPACE
20	1	41	1	42		

EMD = 33.6 KW
225 AMP MAIN BRKR.
Surface Panel
120/240V. 1 Ph. 3 Wire

PANEL PP

BRKR AMPS	POLE	CIRCUIT NO.	LINE	CIRCUIT NO.	POLE	BRKR AMPS
		1	1	2		
30	3	3	2	4	3	45
		5	3	6		
		7	1	8		
45	3	9	2	10	3	45
		11	3	12		
		13	1	14		
45	3	15	2	16	3	45
		17	3	18		
		19	1	20		
45	3	21	2	22	3	45
		23	3	24		
		25	1	26		
30	3	27	2	28	3	45
		29	3	30		
		31	1	32		
30	3	33	2	34	3	45
		35	3	36		
20	1	37	1	38		Space
20	1	39	2	40		Space
Space		41	3	42		Space

EMD = 117.1 KW
400 AMP MAIN BRKR.
Surface Panel
120/240V. 3 Ph. 4 Wire

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects

REVISIONS
NO. | DATE

E-

DATE: SEPT

PHYSICAL EDUCATION AREA ELECTRICAL FLOOR PLAN

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

EXISTING 600A SHOP PANEL (USE IN PLACE)
2 PARALLEL UNDERGROUND RUNS
4 #350 MCM IN 3" RGC.
EXIST. EXIT FIXTURE REMOVE

3 PARALLEL UNDERGROUND
RUNS 4#350MCM IN 3" RGC.

800A 3PSN
MAIN SWITCH

EXIST. HALL
FIXTURES
USE IN PLACE

3 EACH 100A
3 PSN SWITCHES

PANEL B
PANEL C
PANEL P
PANEL PP

TELEPHONE
BACK
BOARD

CABLE TV
BACK
BOARD

PP-7,9,11
4 #6 1"C.

RTU-2

EXIST. EXIT
FIXTURE
REMOVE

EXISTING
SCORE
BOARD

EXISTING FIXTURE
USE IN PLACE

RELOCATE
EXISTING
FIXTURE

RELOCATE
EXISTING
FIXTURE

B-36,38

SWITCH 1
SWITCH 2
SWITCH 3

PP-32,34,36
4 #6 1"C.

RTU-3

B-27,29
B-23,25
B-19,21

TO RHEOSTAT
9 & 10

TO RHEOSTAT
7 & 8

TO RHEOSTAT
5 & 6

SEE NOTE
4

Q +72

B-40

T
+216"

P-17,19

EXIST. EXIT FIXTURE
RELOCATE

SW-1
SW-2
SW-3
SW-4
SW-5

5 SWITCH DETAIL

EXISTING CORRIDOR
FIXTURES USE IN PLACE

EXISTING EXIT FIXTURE
USE IN PLACE

EXISTING FIXTURE
RELOCATE TO
NEW VESTIBULE

EXIST. PHOTOCELL
RELOCATE TO EXTERIOR

WP
GFI

L +180"

B-32,34

PP-25,27,29
4 #6 1"C.

RTU-3

ROW 5
SWITCHES

B-28,30

PP-13,15,17
4 #6 1"C.

RTU-3

ROW 4 SWITCHES

ROW 3 SWITCHES

ROW 2 SWITCHES

ROW 1 SWITCHES

SEE 5
SWITCH
DETAIL

PP-19,21,23
4 #6 1"C.

RTU-3

B-20,22

B-29,31

EF-2
EF-3

L +120"

WP
GFI

S +168"

S +144"

T +168"

L +240"

BACKSTOP
OPERATOR

PP-14,16,18
4 #6
1"C.

RTU-3

3/4"C.

TO RHEOSTAT
1 & 2

TO RHEOSTAT
3 & 4

B-11,13

B-15,17

+39"

SEE NOTE
3

RUN TO 100A
FUSED SWITCH
IN ROOM 139

4 #1
1-1/2"C.

RTA-1

RUN TO 4"X4"X2-1/8"
"J" BOXES AT
FRONT OF STAGE

RUN TO 4"X4"X2-1/8"
"J" BOXES AT BACK
BLEACHER WALL

PP-26,28,30
4 #6
1" C.

RTU-3

C-6

2 #10
1/2"C.

18 #12
1-1/4"C.

SEE NOTE 1

C-8

3 #12

REMOTE CONTROL SWITCH
LOCATION, SEE NOTE 1

B-16,18

+60"

S +144"

SEE NOTE 2

+24"

+48"

+48" GFI

EF-1

EF-2

EF-3

P-6,8

P-10,12

P-14,16

B-12,14

L + 240"

L + 120"

3 #10
3/4"C.

C-10

3 #12

C-2

C-4

C-5

P-5,7

P-9,11

P-13,15

P-1,3

B-1,3

B-5,7

B-7,9

B-9

B-10

B-2,4

B-6,8

SWITCH 1

SWITCH 2

SWITCH 3

SWITCH 4

SWITCH5

BLEACHER
OPERATOR

BLEACHER
OPERATOR
FLUSH IN
FLOOR

+60"

PP- 8,10,12
4 #6
1"C.

RTU-3

PP-20,22,24
4 #6
1"C.

RTU-3

SEE NOTE 3

+24"

RTA-1

RUN TO 100A
FUSED SWITCH
IN ROOM 139

EXIT LIGHTS

MARK T FIXTURES IN
GYM AND COMMONS AREA
(11 THUS)

2 #12
1/2"C.

30/2/20
FUSED SWITCH IN ROOM 139

3 #12
1/2"C.

GYMNASIUM EMERGENCY LIGHTING ONE-LINE DIAGRAM

ELECTRICAL NOTES

1. Provide 6 ganged flush 3 wire remote control key operated spring-return-to-off selector switches at location shown for raising and lowering of basketball backstops by electric operator.
2. Provide 2 each single gang outlet boxes in wall, up 240" for scoreboard power and control.
3. Provide 2 each 4"x4"x 2-1/8" "J" boxes in vertical wall at front of stage and back bleacher wall for scoreboard control receptacle.
4. Provide 10 each Prescolite D820A 2000 Watt Dimmers for 10 each track lite circuits. Dimmers shall be gang mounted in 2 horizontal rows of 5 each. Set top row 60" above stage floor.

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

E-3

DATE: SEPTEMBER, 1991

ELECTRICAL SYMBOL LEGEND

MARK	DESCRIPTION
○ A	FLUORESCENT LIGHT FIXTURE W/IDENT. MARK
○A	LIGHT FIXTURE W/IDENT. MARK
⊗EX	EXIT FIXTURE
⊜	DUPLEX CONVENIENCE OUTLET
▲	TELEPHONE OUTLET
△	COMPUTER NETWORKING RECEPTACLE
⊜	DUPLEX CONVENIENCE OUTLET - (SURGE SURPRESSED)
60/3/50	DISCONNECT SWITCH, 60 AMP, 3 POLE, FUSED AT 50 AMPS
EM	DESIGNATES EMERGENCY LIGHT FIXTURE
	CONNECT TO EQUIPMENT
P-1,3	INDICATES HOME RUN TO PANEL P, CIRCUITS 1 AND 3, WITH 3 WIRES
$	SINGLE POLE SWITCH
$3 $4	THREE AND FOUR WAY SWITCHES
$R	RHEOSTAT SWITCH
WP	WATERPROOF
GFI	GROUND FAULT INTERRUPT
◭	208 OR 240 VOLT OUTLET
	EXISTING ELECTRICAL, USE IN PLACE
	EXISTING ELECTRICAL, REMOVE

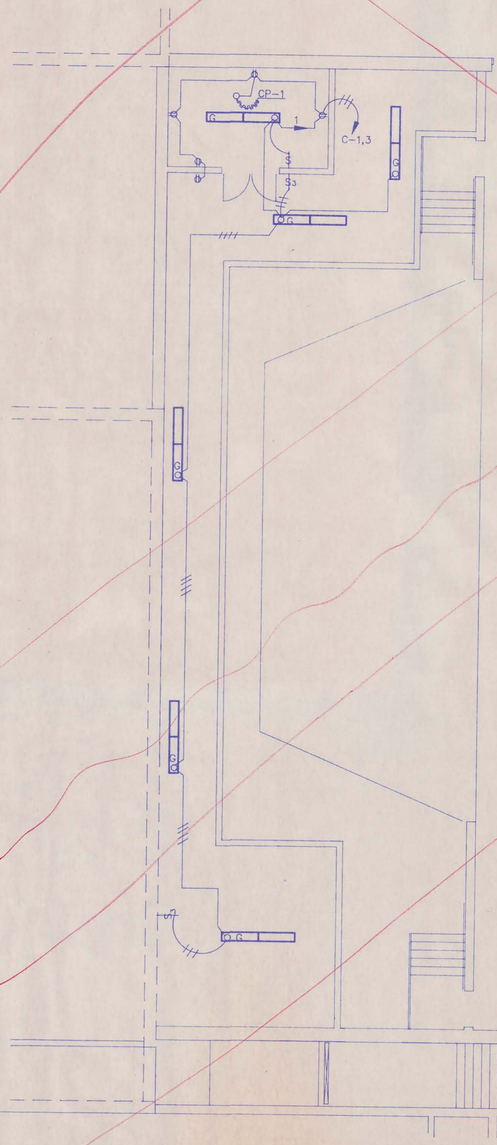
ELECTRICAL FIXTURE SCHEDULE

MARK	NO. LAMPS	TYPE	DESCRIPTION	FINISH	MANUF. & CATALOG NO.	MOUNTING
A	4	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2GT440A12 120	Ceiling - Recessed "T" Grid
B	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2GT240A12 120	Ceiling - Recessed "T" Grid
C	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia C240 120 w/WG9	Surface Mount on Bar Joist
D	2	13W TT	Fluorescent Fixture	Std.	Lithonia AF 13TT 9AR 120	Ceiling - Recessed
EX	2	20 T6%	Exit Fixture	Std.	Lithonia XS1REL 120	Universal
F	2	F40T12CW	Fluorescent Fixture	Std.	Sunbeam P2801-96RS(2)TW (Existing Unit to Match & Extend)	Ceiling - Surface
G	4	F40T12CW	Fluorescent Fixture	Std.	Lithonia 8TC 240 120 TILW w/H &WG9	Suspend from Bar Joist
H	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia VC 240 A 120 SR	Ceiling - Surface
I	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2VC 240 A 120 SR	Ceiling - Surface
J	1	400W M59	HID High Bay Fixture	Std.	Lithonia THS 400M A16 120 w/WG	Ceiling - Pendant, Up 360°
K	1 1	400W M59 Q250 CL/DC	HID High Bay Fixture	Std.	Lithonia THS 400M A16 120 QRS w/WG	Ceiling - Pendant, Up 360°
L	1	250W M58	HID Wall-Pak Fixture	Std.	Lithonia THW 250M 120 PE	Wall, Up As Shown
M	See Note		Track Light	Std.	Lithonia - See Note	On Side of Bar Joist, Up 372°
N	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
O	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
P	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
Q	2	60W A19	Wall Bracket Downlight	Std.	Lithonia WCD Wallens	Wall, Up As Shown
R	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia VRI 240 AR 120	Ceiling - Surface
S	1	250WH58	HID Wall Floodlight	White	RUUD FS425-M x/2* Adjust. Fitter, 65-16 Shield & WM-2 Brkt. 120 Volt	Wall, Up as Shown. Invert to Illuminate Ceiling
T	2	7.2WT5	Emergency Fixture	Std.	Lithonia 6ELM2 120 w/ELAWG 4/8	Wall, Up as Shown.
HD-1	None		Hair Dryer	Chrome	Excel H76-C	Wall, Up 58" to Bottom of Unit

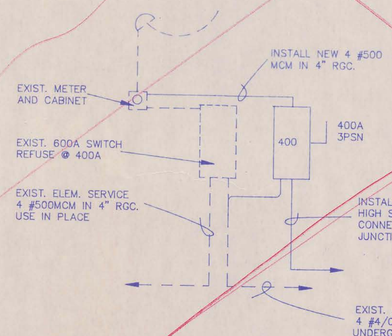
NOTES:
1. Track Light Systems Mark M, N, O & P shall be Lithonia Two Circuit Systems consisting of the following component parts:

MARK	TA-9 FEED	TA-12 DEADEND	T8WH TRACK	PR CYLINDERS TC-20	TC-30	TC-40	LAMPS 50W R20	75W R30	150W R40	150W PAR-38	300W R40	Q250W PAR-38
M	1	1	1			8	--	--	--	2	2	4
N	1	1	7	6	12	15	6	12	6	6	2	1
O	1	1	6	6	10	15	6	10	6	6	2	1
P	1	1	5	4	8	12	4	8	6	6	--	--

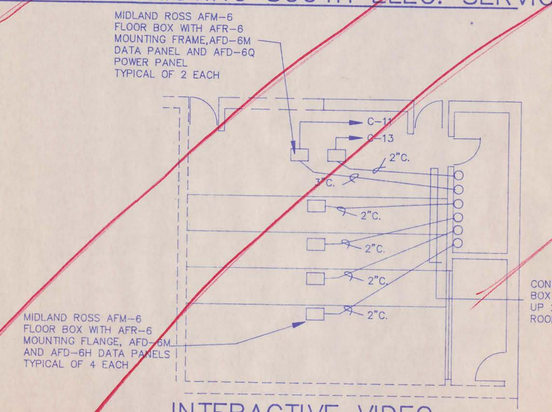
2. Fixtures shown on Plan with Mark EM after Fixture Mark shall have EL Self-Contained Emergency Lighting Option.



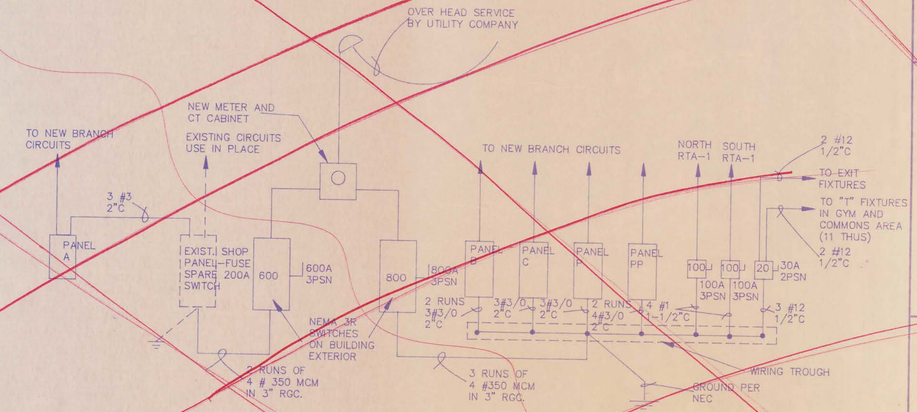
MEZZANINE LEVEL ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"



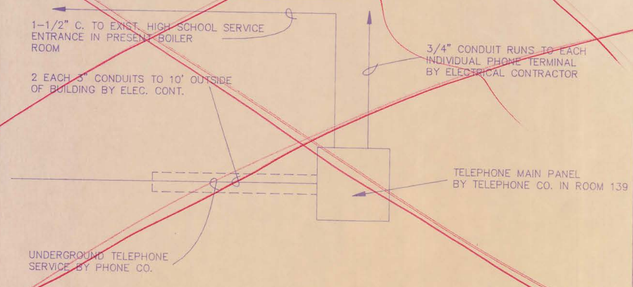
REVISIONS TO EXISTING SOUTH ELEC. SERVICE
NO SCALE



INTERACTIVE VIDEO – FLOOR BOX OUTLET DETAIL
SCALE: 1/8" = 1'-0"



ELECTRICAL ONE LINE DIAGRAM
NO SCALE



TELEPHONE ONE LINE DIAGRAM
NO SCALE

See NexT PAGE FOR E-4

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

E-4

DATE

CHANGSTROM COMPANY INC.

Cambridge Public Schools
Building Expansion & Remodel Project
Cambridge, NE.

Type	Manufacturer	Catalog Number
A	Daybrite-Benjamin	GG244-G02D 120V ESB
A-EM	Daybrite-Benjamin	EGG244-G02D 120V ESB
B	DayBrite-Benjamin	GG242-G02D 120V ESB
B-EM	DayBrite-Benjamin	EGG242-G02D 120V ESB
C	DayBrite-Benjamin	T240/CG4 120V ESB
D	Omega	EY5082TW FF 120V
EX	Siltron	BX-ETB-1R-120/277-CPY
G	DayBrite-Benjamin	T240-8/P118/2-CG4 120V ESB
H	DayBrite-Benjamin	CA 2224-4 120V ESB
I	DayBrite-Benjamin	CA 7224-4 120V ESB
J	DayBrite-Benjamin	HB40MHMT-S16-WGN16
K	DayBrite-Benjamin	HB40MHMT-Q-S16-WGN16
L	DayBrite-Benjamin	WLL25MHMT-PE
M	Capri	KA10P KT8P KT240-1P
N	Capri	KA10P KT8P KA2P KT220-1P KT230-1P KT240-1P
O	Capri	KA10P KT8P KA2P KT220-1P KT230-1P KT240-1P

Type	Manufacturer	Catalog Number
P	Capri	KA10P KT8P KA2P KT220-1P KT230-1P KT240-1P
R	DayBrite-Benjamin	TVR2-4W 120V ESB
R-EM	DayBrite-Benjamin	ETVR2-4W 120V ESB
S	Emco	AFS-250MH-120-DB-PS
T	Chloride	6MF18-DTD2/WG5

A	FLUORESCENT LIGHT FIXTURE W/IDENT. MARK
A	LIGHT FIXTURE W/IDENT. MARK
EX	EXIT FIXTURE
	DUPLEX CONVENIENCE OUTLET
	TELEPHONE OUTLET
	COMPUTER NETWORKING RECEPTACLE
	DUPLEX CONVENIENCE OUTLET - (SURGE SURPRESSED)
60/3/50	DISCONNECT SWITCH, 60 AMP, 3 POLE, FUSED AT 50 AMPS
EM	DESIGNATES EMERGENCY LIGHT FIXTURE
	CONNECT TO EQUIPMENT
P-1,3	INDICATES HOME RUN TO PANEL P, CIRCUITS 1 AND 3, WITH 3 WIRES
S	SINGLE POLE SWITCH
S_3 S_4	THREE AND FOUR WAY SWITCHES
S_R	RHEOSTAT SWITCH
WP	WATERPROOF
GFI	GROUND FAULT INTERRUPT
	208 OR 240 VOLT OUTLET
	EXISTING ELECTRICAL, USE IN PLACE
	EXISTING ELECTRICAL, REMOVE

A	4	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2GT440A12 120	Ceiling - Recessed "T" Grid
B	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2GT240A12 120	Ceiling - Recessed "T" Grid
C	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia C240 120 w/WG9	Surface Mount on Bar Joist
D	2	13W TT	Fluorescent Fixture	Std.	Lithonia AF 13TT 9AR 120	Ceiling - Recessed
EX	2	20 T6%	Exit Fixture	Std.	Lithonia XS1REL 120	Universal
F	2	F40T12CW	Fluorescent Fixture	Std.	Sunbeam P2801-96RS(2)TW (Existing Unit to Match & Extend)	Ceiling - Surface
G	4	F40T12CW	Fluorescent Fixture	Std.	Lithonia 8TC 240 120 TILW w/H &WG9	Suspend from Bar Joist
H	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia VC 240 A 120 SR	Ceiling - Surface
I	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia 2VC 240 A 120 SR	Ceiling - Surface
J	1	400W M59	HID High Bay Fixture	Std.	Lithonia THS 400M A16 120 w/WG	Ceiling - Pendant, Up 360°
K	1 1	400W M59 Q250 CL/DC	HID High Bay Fixture	Std.	Lithonia THS 400M A16 120 QRS w/WG	Ceiling - Pendant, Up 360°
L	1	250W M58	HID Wall-Pak Fixture	Std.	Lithonia THW 250M 120 PE	Wall, Up As Shown
M	See Note		Track Light	Std.	Lithonia - See Note	On Side of Bar Joist, Up 372°
N	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
O	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
P	See Note		Track Light	Std.	Lithonia - See Note	Suspend From Bar Joists
Q	2	60W A19	Wall Bracket Downlight	Std.	Lithonia WCD Wallens	Wall, Up As Shown
R	2	F40T12CW	Fluorescent Fixture	Std.	Lithonia VRI 240 AR 120	Ceiling - Surface
S	1	250WM58	HID Wall Floodlight	White	RUUD FS425-M x/2" Adjust. Fitter, 65-16 Shield & WM-2 Brkt. 120 Volt	Wall, Up as Shown. Invert to Illuminate Ceiling
T	2	7.2WT5	Emergency Fixture	Std.	Lithonia 6ELM2 120 w/ELAWG 4/8	Wall, Up as Shown.
HD-1	None		Hair Dryer	Chrome	Excel H76-C	Wall, Up 58" to Bottom of Unit

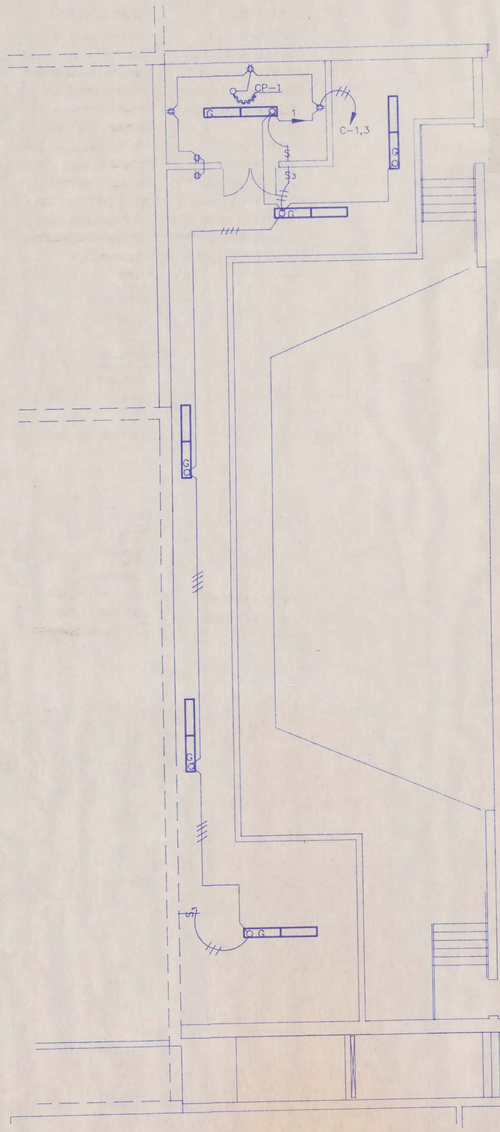
NOTES:
1. Track Light Systems Mark M, N, O & P shall be Lithonia Two Circuit Systems consisting of the following component parts:

MARK	FEED	TA-9 DEADEND	TA-12 TRACK	T8WH TC-20	WH CYLINDERS TC-30	TC-40	LAMPS 50W R20	75W R30	150W R40	150W PAR-38	300W R40	Q250W PAR-38
M	1	1	1			8	--	--	--	2	2	4
N	1	1	7	6	12	15	6	12	6	6	2	1
O	1	1	6	6	10	15	6	10	6	6	2	1
P	1	1	5	4	8	12	4	8	6	6	--	--

2. Fixtures shown on Plan with Mark EM after Fixture Mark shall have EL Self-Contained Emergency Lighting Option.

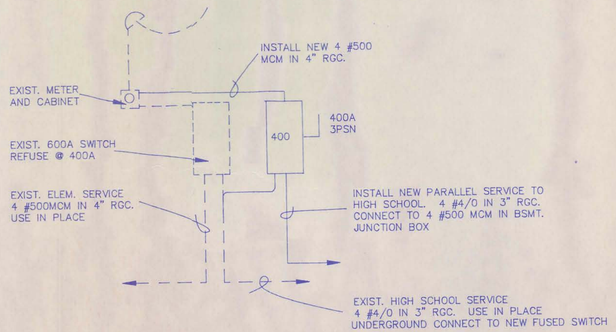
Sheet E-4 - Electrical Fixture Schedule
Fixture Mark F - Sunbeam Fluorescent
In lieu of Sunbeam Fixture, provide Lithonia TCA240 A 120

See Opposite Page



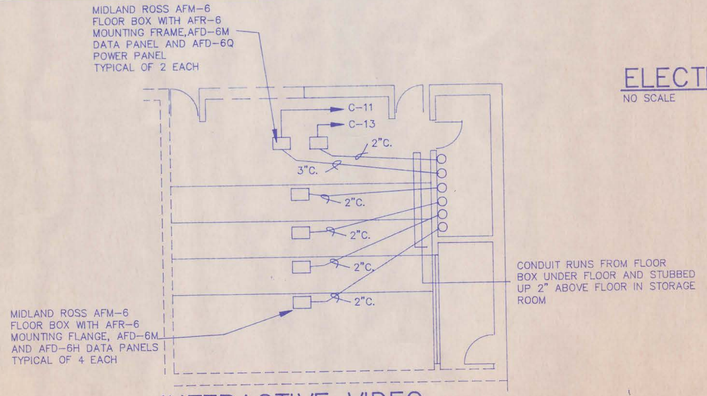
MEZZANINE LEVEL ELECTRICAL PLAN

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



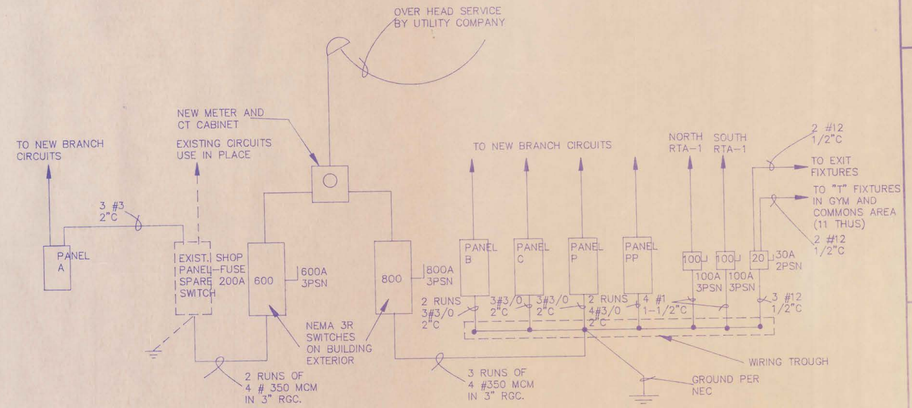
REVISIONS TO EXISTING SOUTH ELEC. SERVICE

NO SCALE



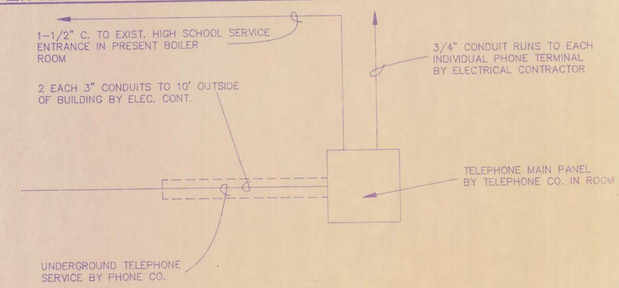
INTERACTIVE VIDEO – FLOOR BOX OUTLET DETAIL

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



ELECTRICAL ONE LINE DIAGRAM

NO SCALE



TELEPHONE ONE LINE DIAGRAM

NO SCALE

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
MCCOOK, NEBRASKA 69001

REVISIONS
No | DATE

E-4

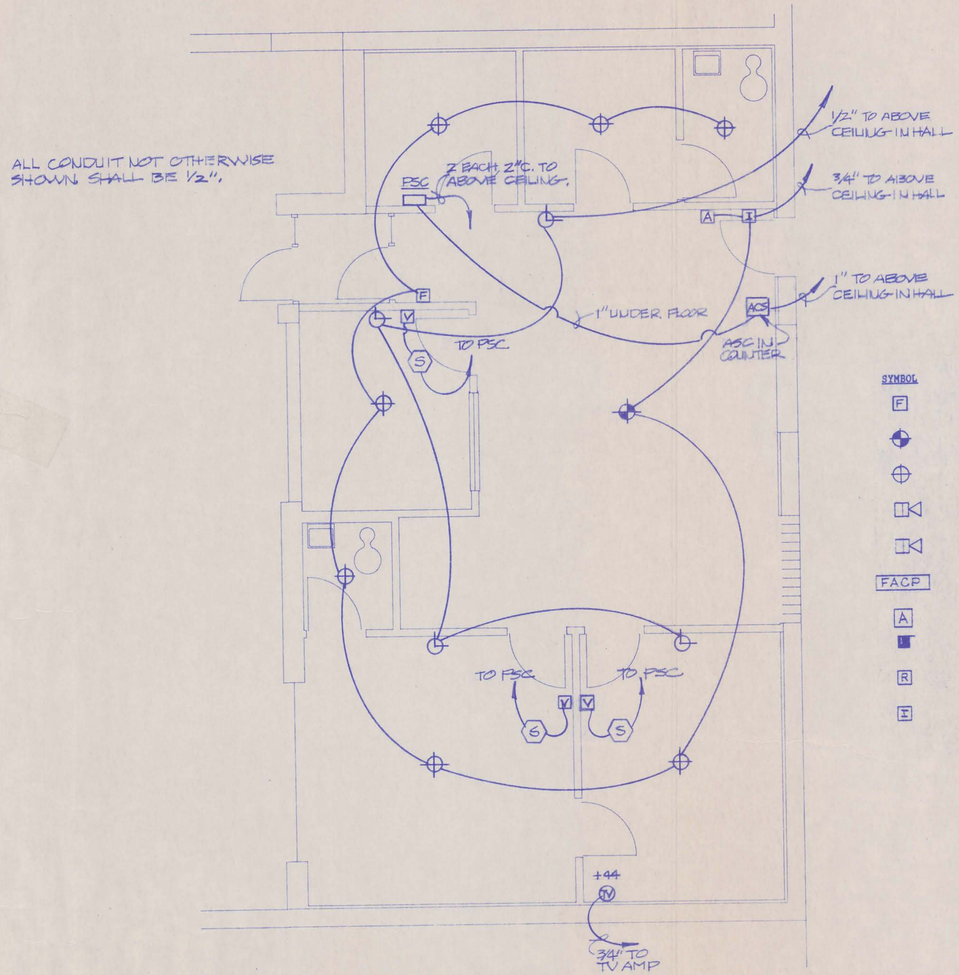
DATE: SEPTEMBER

SYMBOL	SS CONTRACTOR	ELECTRICAL CONTRACTOR
S	Speaker	Install back box furnished by SSC
C	Call in Switch	Single Gang Outlet Box +48"
V	Volume Control	4" Sq. Box w/single Gang Plate +48"
M	Microphone Outlet	Single Gang Outlet Box +36"
ACS	Administrative Control Station	4" Sq. Box w/2 Gang Plate
PSC	Program and Sound Console	Install 12x12x4" Junction Box cover.
	Clock	Install Back Box furnished by SSC +88" to Center.
D	Double Faced Clock	Install Back Box furnished by SSC
AMP	P.A. Amplifier	Install Back Box furnished by SSC +48" to Center
TV	TV Outlet	Single Gang Outlet Box +24"

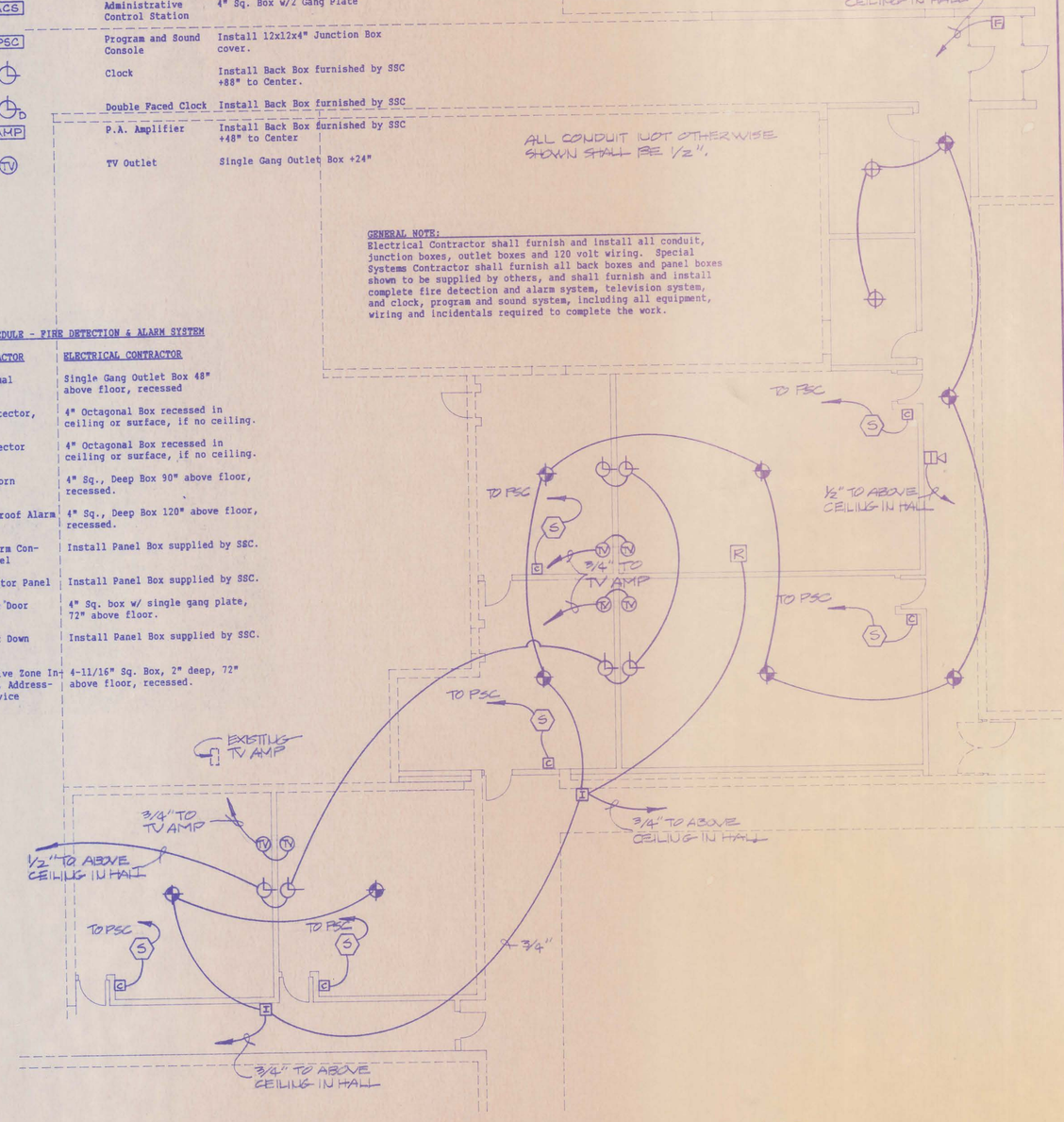
GENERAL NOTE:
Electrical Contractor shall furnish and install all conduit, junction boxes, outlet boxes and 120 volt wiring. Special Systems Contractor shall furnish all back boxes and panel boxes shown to be supplied by others, and shall furnish and install complete fire detection and alarm system, television system, and clock, program and sound system, including all equipment, wiring and incidentals required to complete the work.

SYMBOL SCHEDULE - FIRE DETECTION & ALARM SYSTEM

SS CONTRACTOR	ELECTRICAL CONTRACTOR
F.A. Manual Station	Single Gang Outlet Box 48" above floor, recessed
Smoke Detector,	4" Octagonal Box recessed in ceiling or surface, if no ceiling.
Heat Detector	4" Octagonal Box recessed in ceiling or surface, if no ceiling.
Strobe/Horn	4" Sq., Deep Box 90" above floor, recessed.
Weatherproof Alarm Horn	4" Sq., Deep Box 120" above floor, recessed.
Fire Alarm Control Panel	Install Panel Box supplied by SSC.
Annunciator Panel	Install Panel Box supplied by SSC.
Magnetic Door Holder	4" Sq. box w/ single gang plate, 72" above floor.
Fan Shut Down Relay	Install Panel Box supplied by SSC.
Collective Zone Interface, Addressable Device	4-11/16" Sq. Box, 2" deep, 72" above floor, recessed.



ADMINISTRATION AREA – SPECIAL SYSTEMS



CLASSROOM AREA – SPECIAL SYSTEMS

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

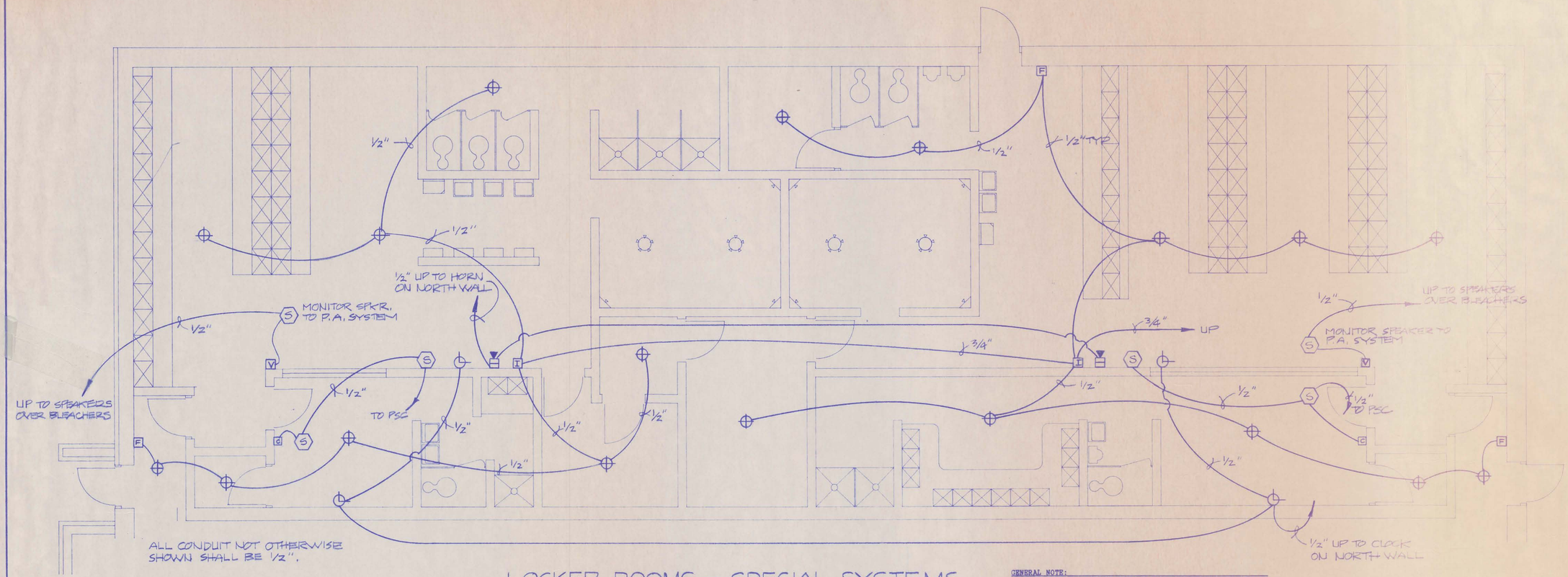
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

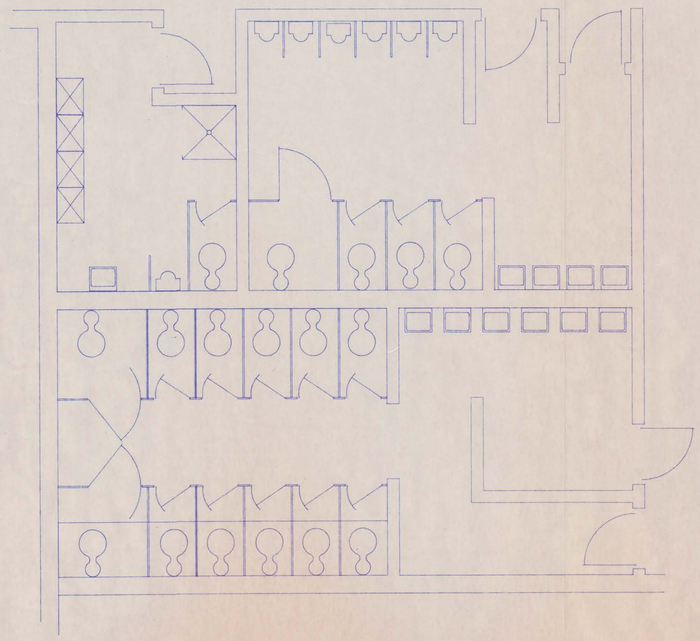
E-5

DATE: SEPTEMBER, 1981



LOCKER ROOMS – SPECIAL SYSTEMS

SCALE: 1/4" = 1'–0"



GENERAL NOTE:
Electrical Contractor shall furnish and install all conduit, junction boxes, outlet boxes and 120 volt wiring. Special Systems Contractor shall furnish all back boxes and panel boxes shown to be supplied by others, and shall furnish and install complete fire detection and alarm system, television system, and clock, program and sound system, including all equipment, wiring and incidentals required to complete the work.

SYMBOL SCHEDULE – CLOCK, PROGRAM AND SOUND SYSTEM AND TV SYSTEM

SYMBOL	SS CONTRACTOR	ELECTRICAL CONTRACTOR
S	Speaker	Install back box furnished by SSC
C	Call in Switch	Single Gang Outlet Box +48"
V	Volume Control	4" Sq. Box w/single Gang Plate +48"
M	Microphone Outlet	Single Gang Outlet Box +36"
ACS	Administrative Control Station	4" Sq. Box w/2 Gang Plate
PSC	Program and Sound Console	Install 12x12x4" Junction Box cover.
	Clock	Install Back Box furnished by SSC +88" to Center.
D	Double Faced Clock	Install Back Box furnished by SSC
AMP	P.A. Amplifier	Install Back Box furnished by SSC +48" to Center
TV	TV Outlet	Single Gang Outlet Box +24"

SYMBOL SCHEDULE – FIRE DETECTION & ALARM SYSTEM

SYMBOL	SS CONTRACTOR	ELECTRICAL CONTRACTOR
F	F.A. Manual Station	Single Gang Outlet Box 48" above floor, recessed
	Smoke Detector,	4" Octagonal Box recessed in ceiling or surface, if no ceiling.
	Heat Detector	4" Octagonal Box recessed in ceiling or surface, if no ceiling.
	Strobe/Horn	4" Sq., Deep Box 90" above floor, recessed.
	Weatherproof Alarm Horn	4" Sq., Deep Box 120" above floor, recessed.
FACP	Fire Alarm Control Panel	Install Panel Box supplied by SSC.
A	Annunciator Panel	Install Panel Box supplied by SSC.
	Magnetic Door Holder	4" Sq. box w/ single gang plate, 72" above floor.
R	Fan Shut Down Relay	Install Panel Box supplied by SSC.
I	Collective Zone Interface, Addressable Device	4-11/16" Sq. Box, 2" deep, 72" above floor, recessed.

CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

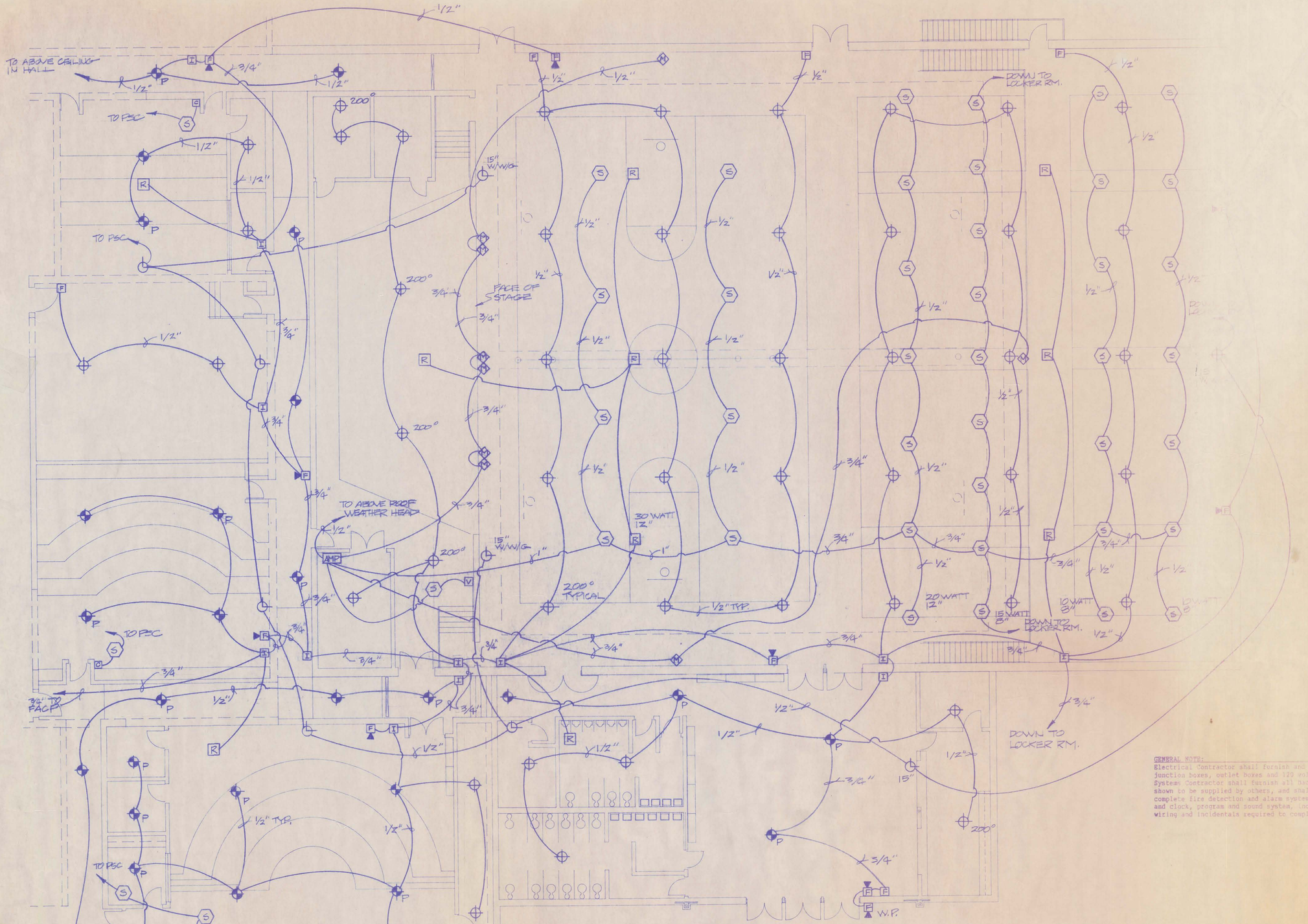
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

E-6

DATE: SEPTEMBER, 1991



PHYSICAL EDUCATION AREA – SPECIAL SYSTEMS

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

GENERAL NOTE:
Electrical Contractor shall furnish and install all conduit, junction boxes, outlet boxes and 120 volt wiring. Special Systems Contractor shall furnish all back boxes and panel boxes shown to be supplied by others, and shall furnish and install complete fire detection and alarm system, television system, and clock, program and sound system, including all equipment, wiring and incidentals required to complete the work.

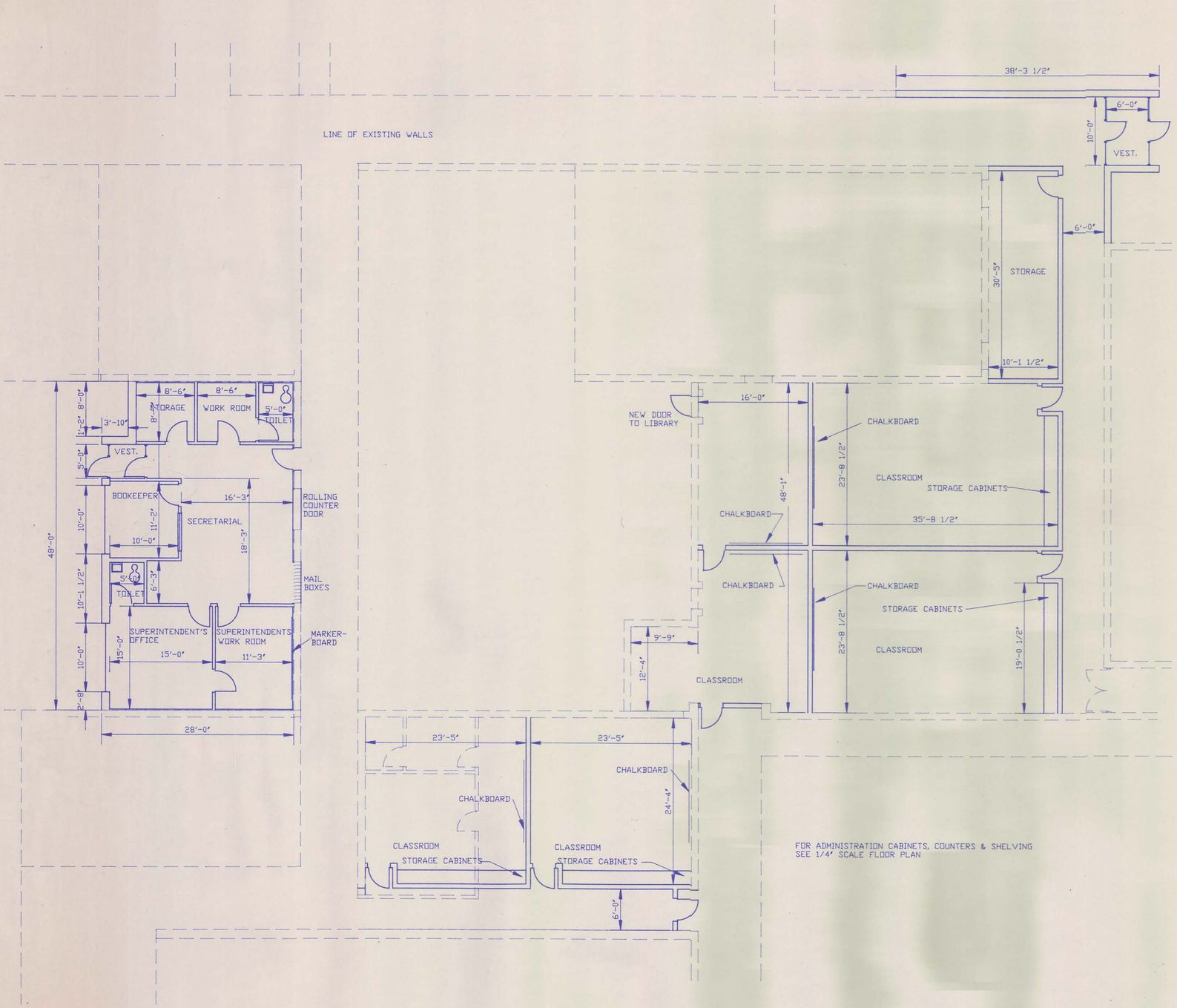
CAMBRIDGE PUBLIC SCHOOLS
SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS
NO. DATE

E-7

DATE: September 1971

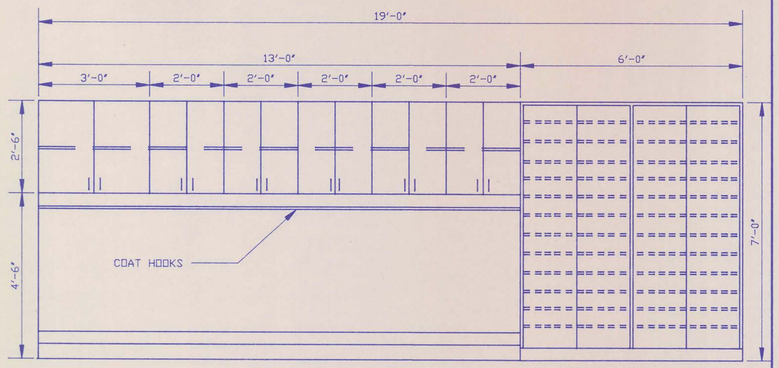


FOR ADMINISTRATION CABINETS, COUNTERS & SHELVING SEE 1/4" SCALE FLOOR PLAN

ADMINISTRATION AND CLASSROOM AREA FLOOR PLAN

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

NORTH



CLASSROOM CABINETS AND COAT RACK

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

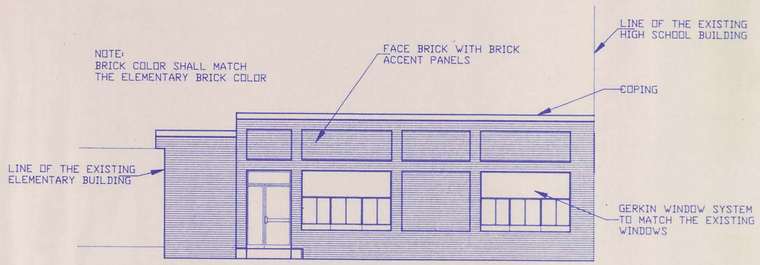
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE
1	6-4-91

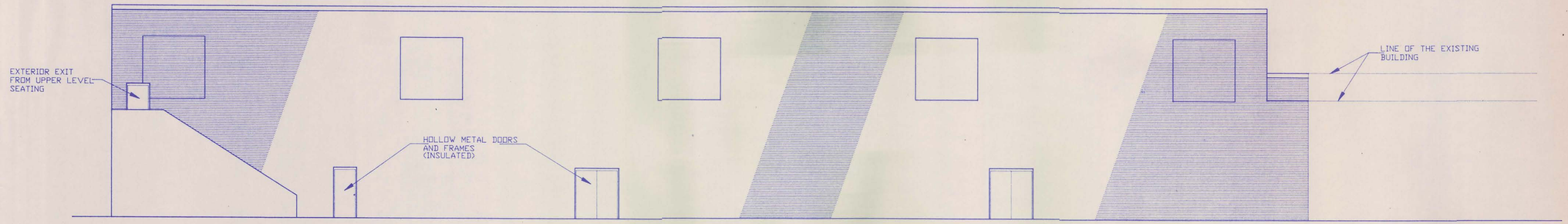
DATE: JUNE, 1991

540938
STANDARDBLUE, OMAHA



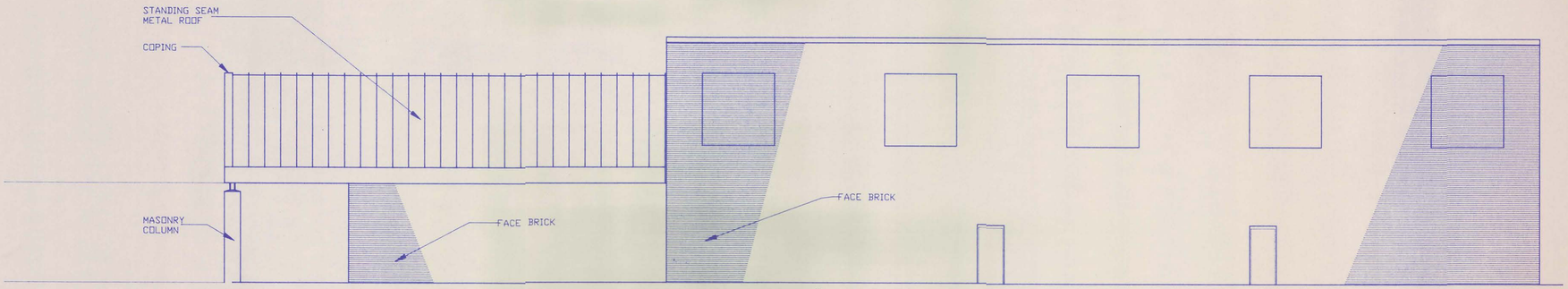
SOUTH ELEVATION - ADMINISTRATION OFFICE

SCALE: 1/8"=1'0"



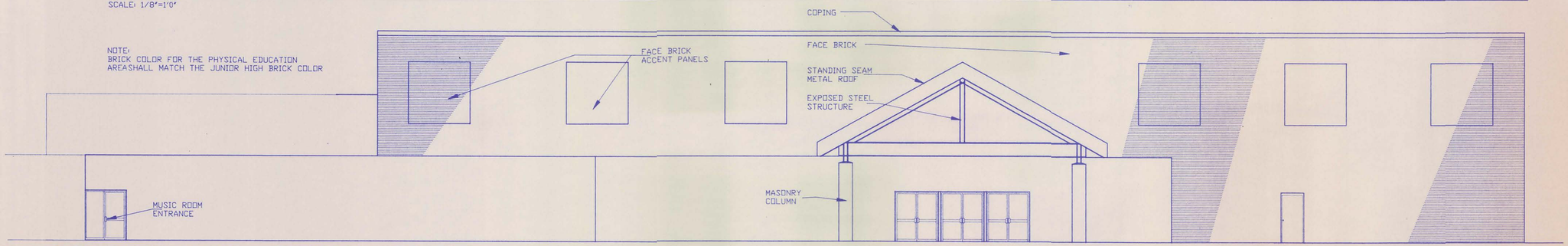
WEST ELEVATION - PHYSICAL EDUCATION

SCALE: 1/8"=1'0"



NORTH ELEVATION - PHYSICAL EDUCTION

SCALE: 1/8"=1'0"



EAST ELEVATION - PHYSICAL EDUCATION

SCALE: 1/8"=1'0"

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

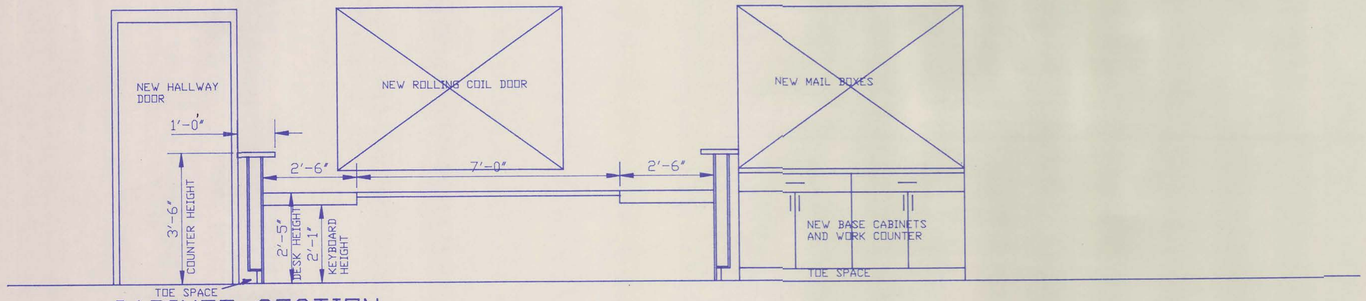
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE
1	6-4-91

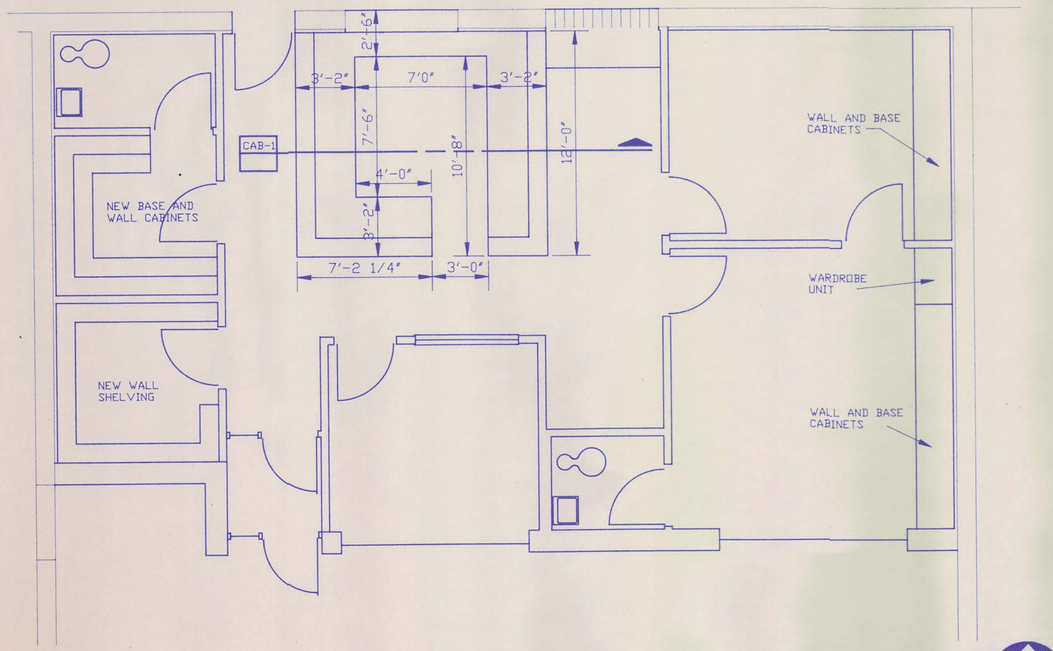
DATE: JUNE, 1991

540298
STANDARDBLUE, OMAHA



CABINET SECTION

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



ADMIN AREA FLOOR PLAN - CABINETS,COUNTERS & SHELVES

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

NORTH

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

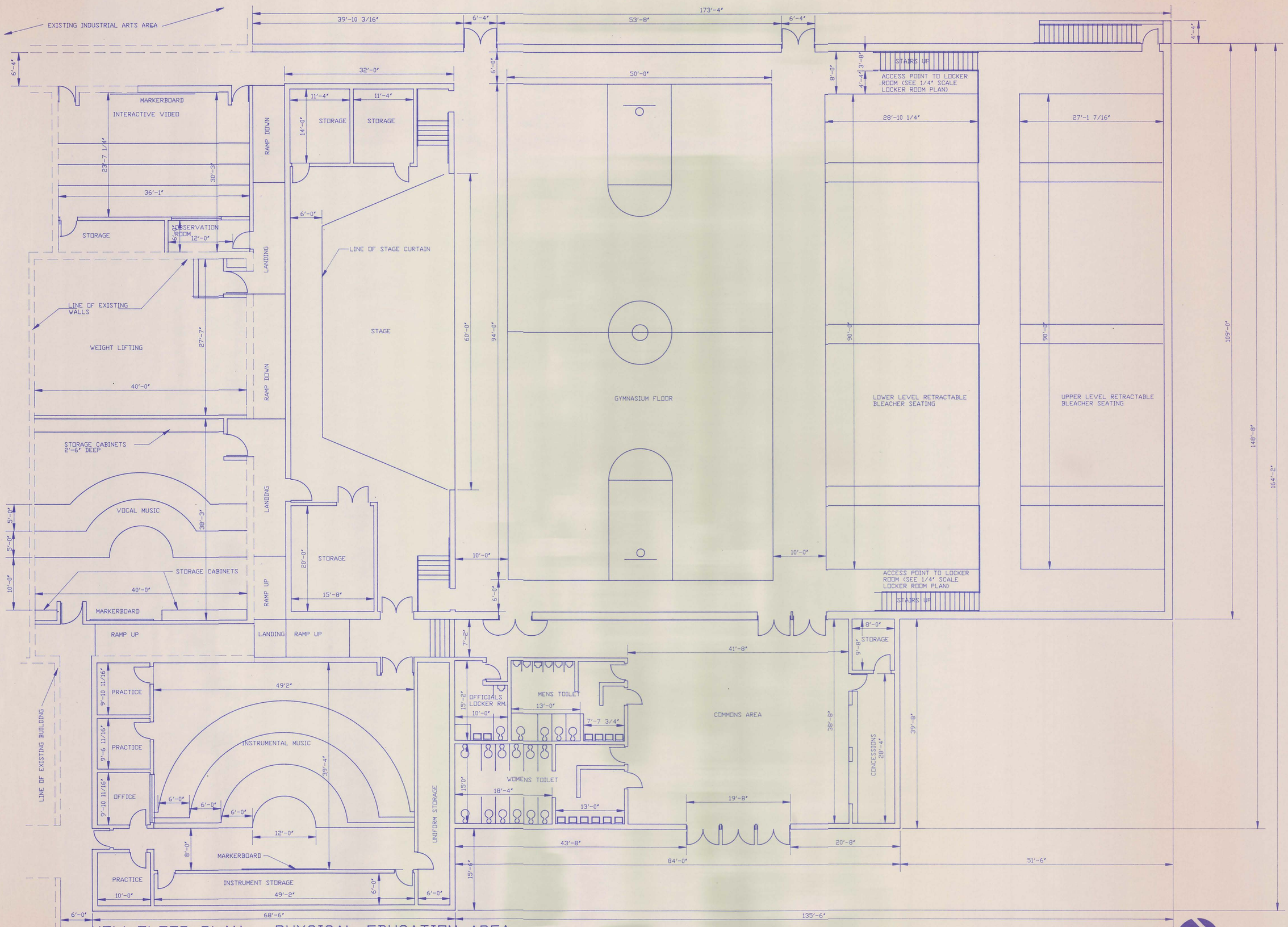
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

DATE: JUNE, 1991

540298
STANDARDBLUE, OMAHA



NEW FLOOR PLAN - PHYSICAL EDUCATION AREA

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

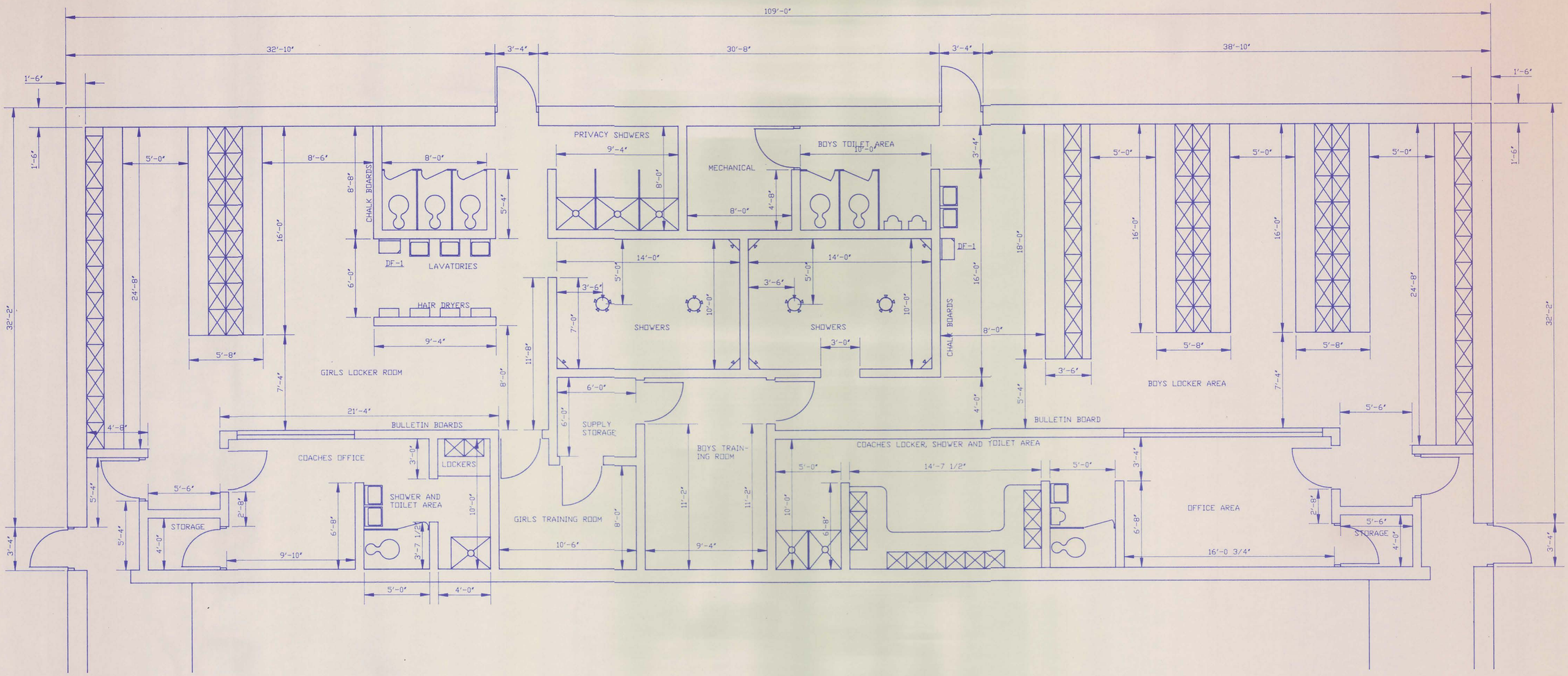
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE
1	6-4-91

DATE: JUNE, 1991

STANDARDBLUE, OMAHA



LOCKER ROOM FLOOR PLAN

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

NORTH

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

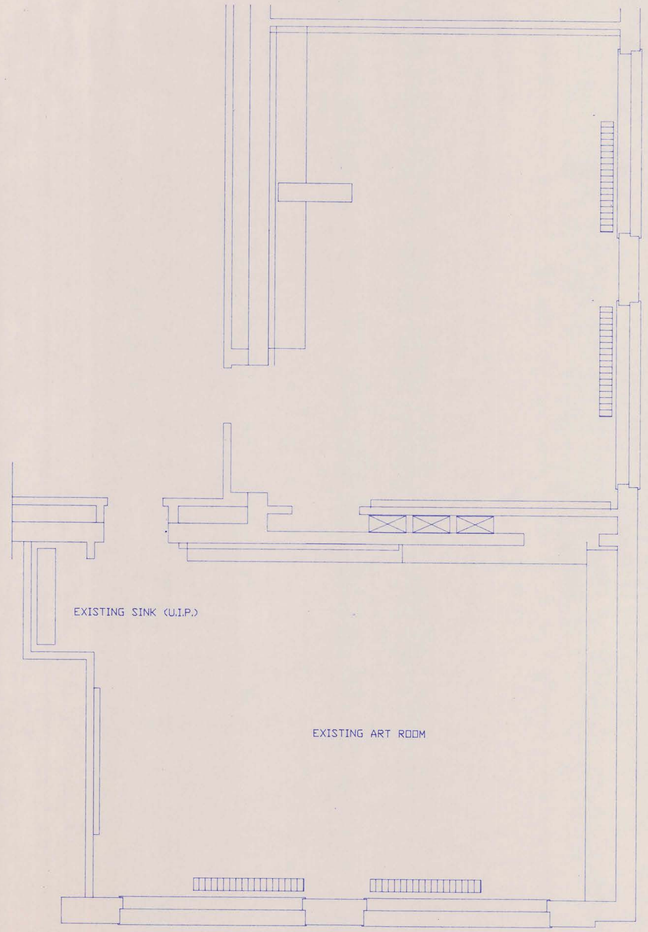
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

NO.	DATE

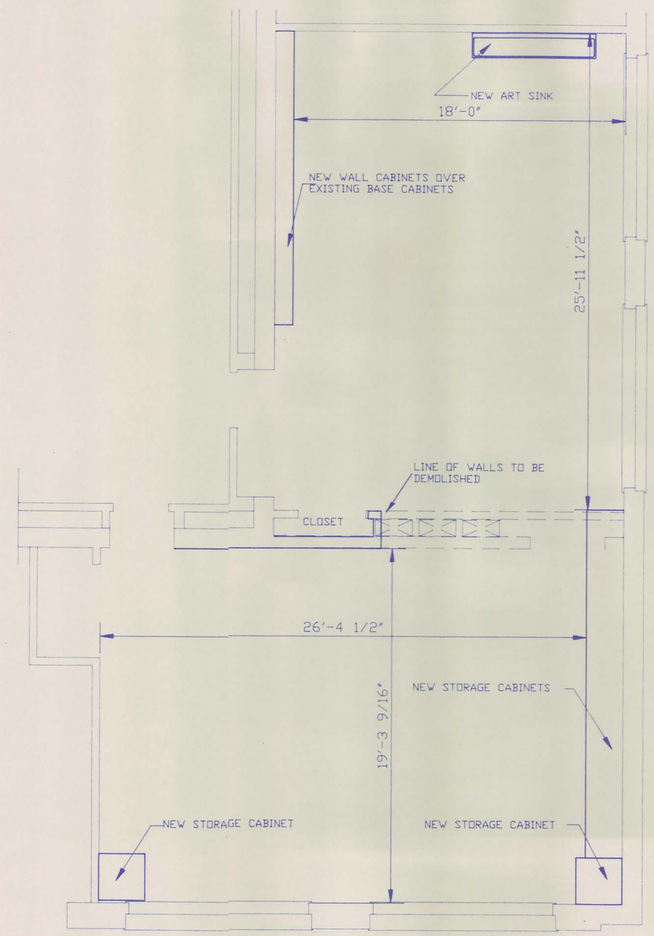
DATE: JUNE, 1991

STANDARDBLUE, OMAHA



EXISTING FLOOR PLAN - ART ROOM

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



NEW FLOOR PLAN - ART ROOM

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS

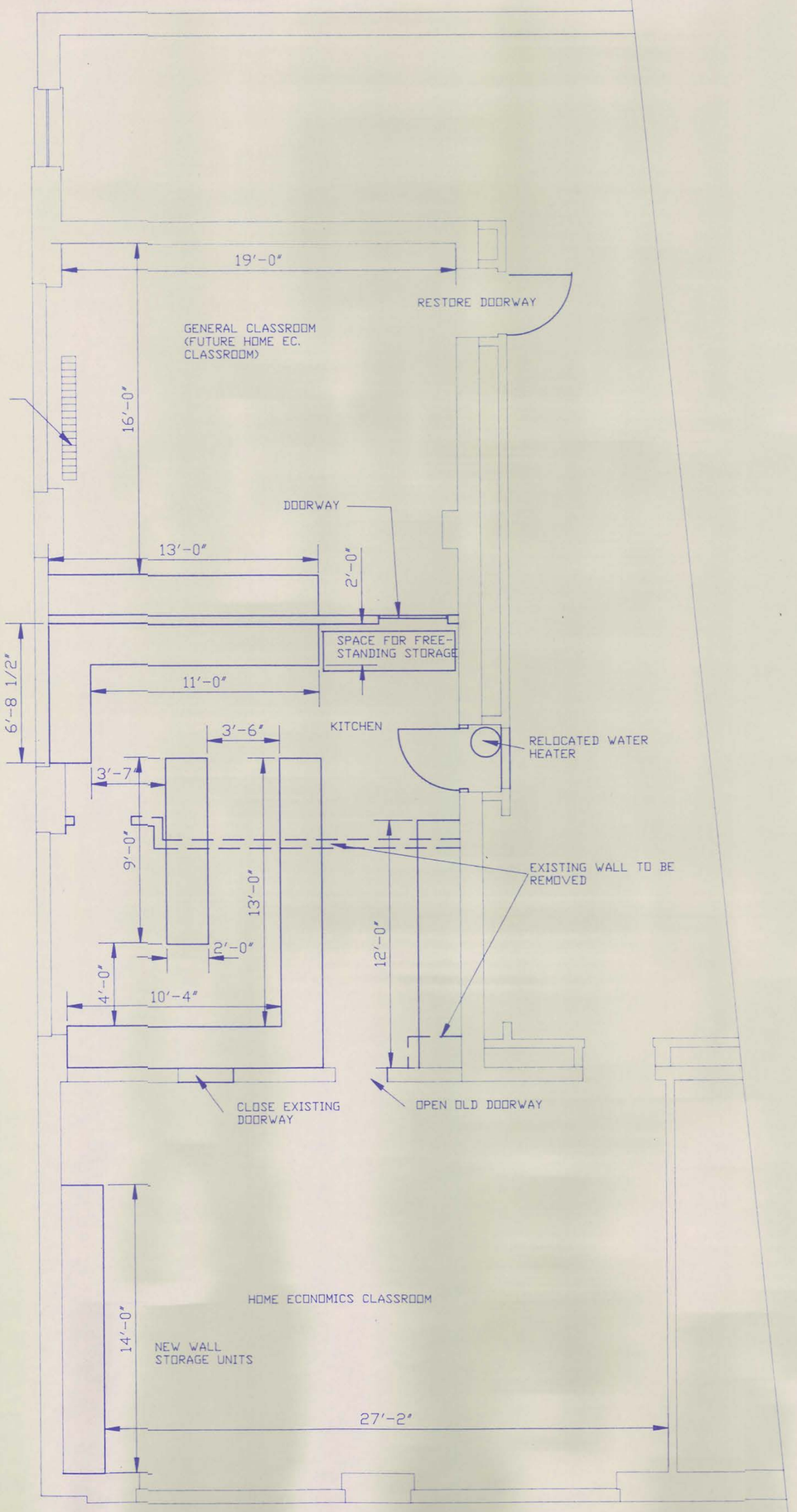
No.	Date

DATE: JUNE, 1991

STANDARDBLUE, OMAHA

TER
ON

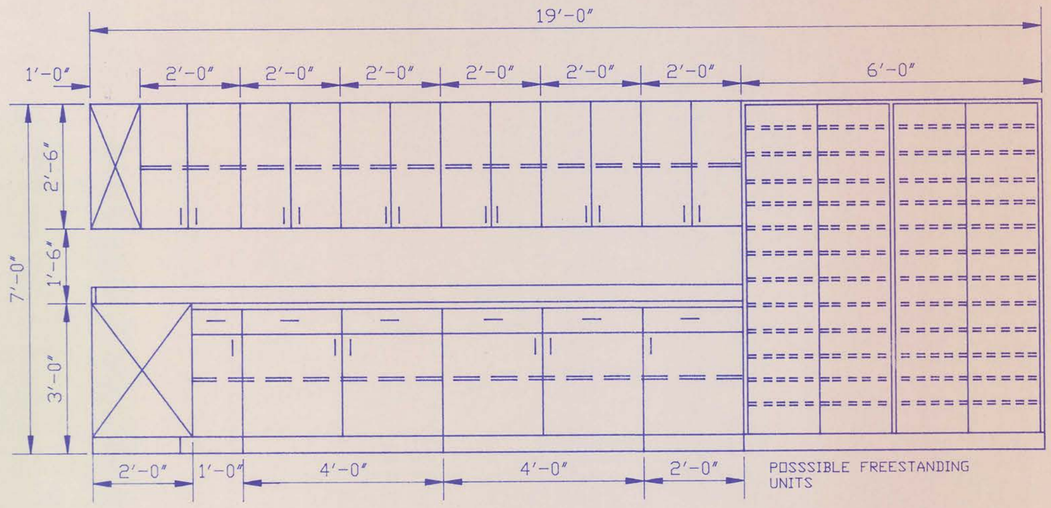
EXISTING RADIATOR
RELOCATED TO THIS
POINT



OMICS

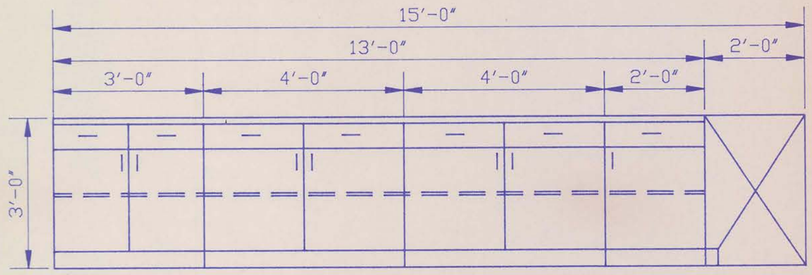
NEW FLOOR PLAN - HOME ECONOMICS

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



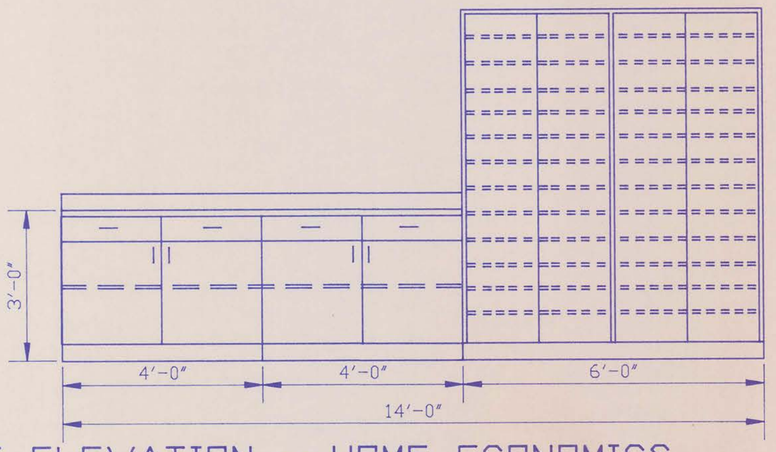
CABINET ELEVATION - HOME ECONOMICS

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



CABINET ELEVATION - HOME ECONOMICS

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



CABINET ELEVATION - HOME ECONOMICS

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

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

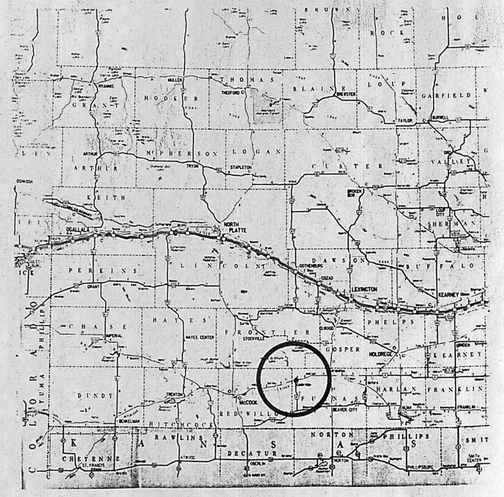
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

REVISIONS	
No.	DATE
1	6-4-91

DATE: JUNE, 1991

ASBESTOS REMOVAL PROJECT
CAMBRIDGE PUBLIC SCHOOL
CAMBRIDGE , NEBRASKA



SITE MAP

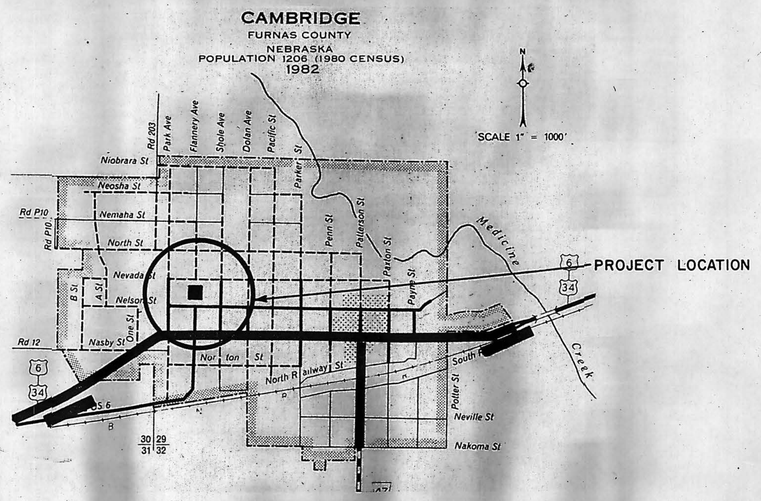
PREPARED BY

SNYDER ENGINEERING COMPANY INC.
COLUMBUS, NEBRASKA

DATE: SEPT. , 1989 PROJECT NO. 038-004

INDEX

SHEET	NO.
TITLE SHEET	1
ASBESTOS REMOVAL	2
PHOTOS	3



SITE LOCATION

QUANITITES

ITEM	QUANITY	UNIT
1. Contractor to remove asbestos containing thermal mud from elbows, T's, and hangers.	937	Each
2. Contractor to remove asbestos containing 1" thermal pipe wrap.	356	L.F.
3. Contractor to remove asbestos containing 1 1/2" thermal pipe wrap.	207	L.F.
4. Contractor to remove asbestos containing 2" thermal pipe wrap.	198	L.F.
5. Contractor to remove asbestos containing 2 1/2" thermal pipe wrap.	324	L.F.
6. Contractor to remove asbestos containing 3" thermal pipe wrap.	36	L.F.
7. Contractor to remove asbestos containing 4" thermal pipe wrap.	83	L.F.
8. Contractor to remove asbestos containing 6" thermal pipe wrap.	100	L.F.
9. Contractor to remove asbestos containing 8" thermal pipe wrap.	53	L.F.
10. Contractor to remove asbestos containing thermal wrap from Expansion Tanks.	612	S.F.
11. Contractor to remove asbestos containing thermal wrap from Boilers.	360	S.F.
12. Contractor to remove asbestos containing thermal wrap from Boiler Breech.	132	S.F.
13. Contractor to remove asbestos containing spray-on surfacing material from ceilings.	2,371	S.F.
14. Contractor to re-spray non-asbestos containing surfacing material on ceilings.	2,371	S.F.

DESIGN	R.A.S.	PROJECT: ASBESTOS REMOVAL PROJECT CAMBRIDGE PUBLIC SCHOOL CAMBRIDGE , NEBRASKA
DRAWN	D.J.Y.	
CHECKED	R.A.S.	
DATE	SEPT. 89	TITLE: TITLE SHEET
PROJECT NO.	038-004	

SNYDER ENGINEERING COMPANY, INC. | REVISIONS | SHEET NO. 1 OF 3

" DESIGNING YOUR TOMORROW TODAY "

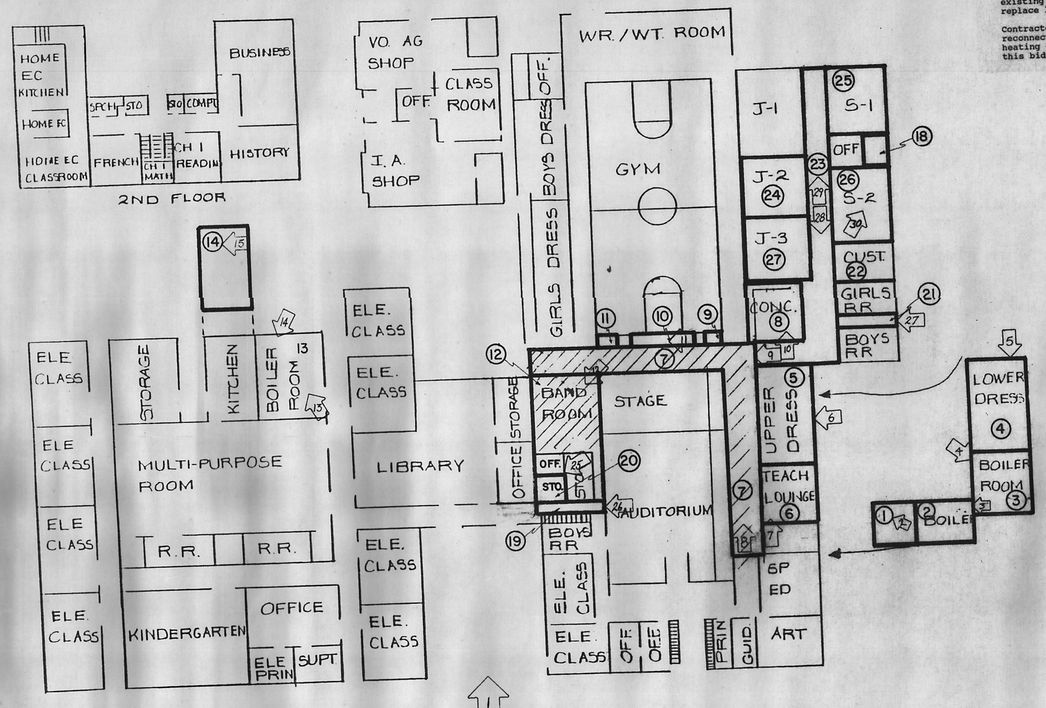
NOTE TO CONTRACTOR

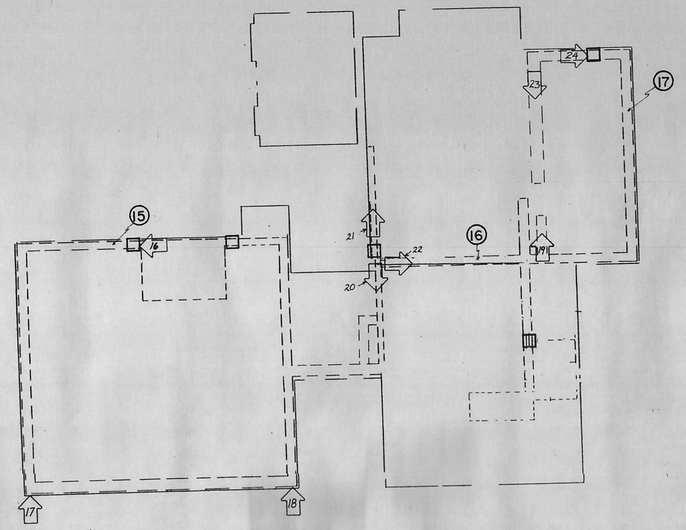
The plaster sub-strait has been sampled in accordance with State and Federal Asbestos Regulations (Nebraska Department of Health and EPA AHERA) and the correct number of samples taken and results that the plaster sub-strait contains <1% asbestos.

Contractor to remove clean and replace and/or replace with new, cabinets and wall partitions, etc., to provide access to remove asbestos containing spray-on surfacing material.

Contractor to remove existing light. Owner to replace lights.

Contractor to verify and reconnect all heaters and heating ducts as part of this bid.





NORTH

NOT TO SCALE

LEGEND

= LOCATION PHOTO (See sheet 3 of 3)

= ROOM LOCATION

= TUNNEL ACCESS

Room 1

Contractor to remove 24 Ea. of asbestos containing thermal mud from elbows, and T's, and hangers.

Contractor to remove 15 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Contractor to remove 10 L.F. of asbestos containing 6" of thermal pipe wrap.

Contractor to remove 3 L.F. of asbestos containing 8" of thermal pipe wrap.

Room 2

Contractor to remove 79 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 42 L.F. of asbestos containing 1 1/2" of thermal pipe wrap.

Contractor to remove 72 L.F. of asbestos containing 2" of thermal pipe wrap.

Contractor to remove 18 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Contractor to remove 33 L.F. of asbestos containing 4" of thermal pipe wrap.

Contractor to remove 9 L.F. of asbestos containing 6" of thermal pipe wrap.

Contractor to remove 30 L.F. of asbestos containing 8" of thermal pipe wrap.

Contractor to remove 312 S.F. of asbestos containing thermal wrap from Expansion Tanks.

Room 3

Contractor to remove 106 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 132 L.F. of asbestos containing 1 1/2" of thermal pipe wrap.

Contractor to remove 44 L.F. of asbestos containing 2" of thermal pipe wrap.

Contractor to remove 36 L.F. of asbestos containing 3" of thermal pipe wrap.

Contractor to remove 60 L.F. of asbestos containing 6" of thermal pipe wrap.

Contractor to remove 20 L.F. of asbestos containing 8" of thermal pipe wrap.

Contractor to remove 612 S.F. of asbestos containing thermal wrap from Boilers.

Contractor to remove 132 S.F. of asbestos containing thermal material from Boiler Breech.

Room 4

Contractor to remove 35 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 16 L.F. of asbestos containing 1" of thermal pipe wrap.

Contractor to remove 48 L.F. of asbestos containing 2" of thermal pipe wrap.

Room 5

Contractor to remove 18 L.F. of asbestos containing 1" of thermal pipe wrap.

Contractor to remove 9 L.F. of asbestos containing 6" of thermal pipe wrap.

Room 6

Contractor to remove 2 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 12 L.F. of asbestos containing 6" of thermal pipe wrap.

Room 7

Contractor to remove 1,381 S.F. of asbestos containing spray-on surfacing from ceiling.

Contractor to re-spray 1,381 S.F. of non-asbestos containing spray-on surfacing material on ceiling (see note to contractor).

Contractor to remove 10 L.F. of asbestos containing 1" of thermal pipe wrap.

Room 8

Contractor to remove 3 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 30 L.F. of asbestos containing 1 1/2"of thermal pipe wrap.

Room 9

Contractor to remove 4 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 2 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Contractor to remove 12 L.F. of asbestos containing 4" of thermal pipe wrap.

Room 10

Contractor to remove 34 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 17 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Contractor to remove 38 L.F. asbestos containing 4" of thermal pipe wrap.

Room 11

Contractor to remove 2 Ea. of asbestos containing thermal mud from elbows, T's, and hangers.

Contractor to remove 11 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Room 12

Contractor to remove 990 S.F. of asbestos containing spray-on surfacing from ceiling.

Contractor to remove 990 S.F. of non-asbestos containing spray-on surfacing material on ceiling (see note to contractor).

Room 13

Contractor to remove 84 Ea. of asbestos containing thermal mud on elbows, T's, and hangers.

Contractor to remove 48 S.F. of asbestos containing thermal wrap from Expansion Tanks.

Room 14

Contractor to remove 8 Ea. of asbestos containing thermal mud on elbows, T's, and, hangers.

Room 15

Contractor to remove 294 Ea. of asbestos containing thermal mud on elbows, T's, and, hangers.

Room 16

Contractor to remove 115 Ea. of asbestos containing thermal mud on elbows, T's, and, hangers.

Contractor to remove 310 L.F. of asbestos containing 1" of thermal pipe wrap.

Contractor to remove 34 L.F. of asbestos containing 2" of thermal pipe wrap.

Contractor to remove 250 L.F. of asbestos containing 2 1/2" of thermal pipe wrap.

Room 17

Contractor to remove 106 Ea. of asbestos containing thermal mud on elbows, T's, and hangers.

Room 18

Contractor to remove 5 Ea. of asbestos containing thermal mud on elbows, T's, and hangers.

Room 19

Contractor to remove 1 Ea. of asbestos containing thermal mud on elbows, T's, and hangers.

Contractor to remove 2 L.F. of asbestos containing 1" of thermal pipe wrap.

Room 20

Contractor to remove 2 Ea. of asbestos containing thermal mud on elbow's, T's and hangers.

Contractor to remove 3 L.F. of asbestos containing 1 1/2" thermal pipe wrap.

Contractor to remove 11 L.F. of asbestos containing 2 1/2" thermal pipe wrap.

Room 21

Contractor to remove 2 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 22

Contractor to remove 1 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 23

Contractor to remove 13 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 24

Contractor to remove 6 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 25

Contractor to remove 1 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 26

Contractor to remove 5 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

Room 27

Contractor to remove 5 Ea. of asbestos containing thermal mud on elbows, T's, and hangers, above non-asbestos containing 2' X 4' ceiling tile.

Contractor to remove, clean, and/or replace with new non-asbestos containing fireproof (Armstrong 755-B, 2' X 4' ceiling tile and grid).

DESIGN	R.A.S.
DRAWN	D.J.Y.
CHECKED	R.A.S.
DATE	SEPT 89
PROJECT NO.	038-004

PROJECT: ASBESTOS REMOVAL PROJECT
CAMBRIDGE PUBLIC SCHOOL
CAMBRIDGE, NEBRASKA

TITLE: ASBESTOS REMOVAL

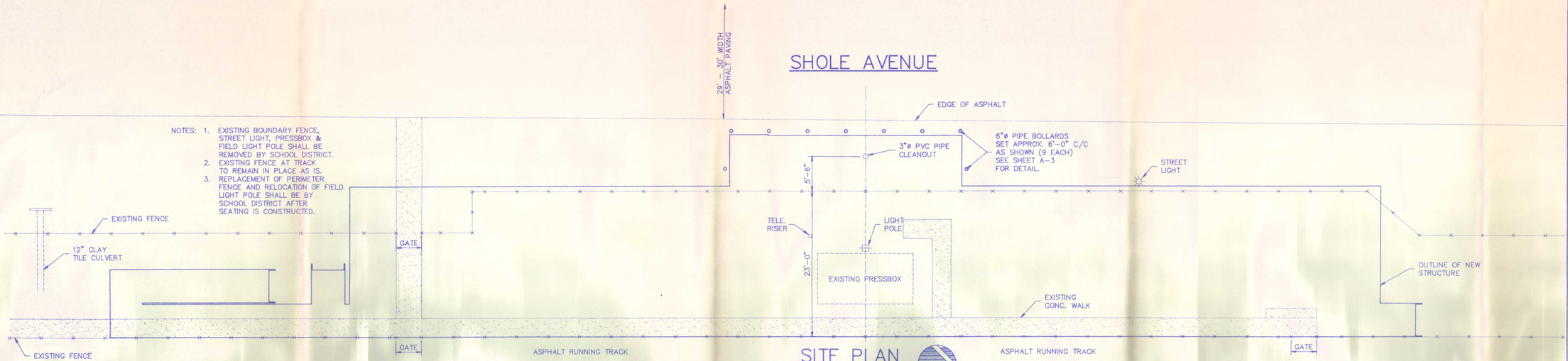
SNYDER ENGINEERING COMPANY, INC.

REVISIONS

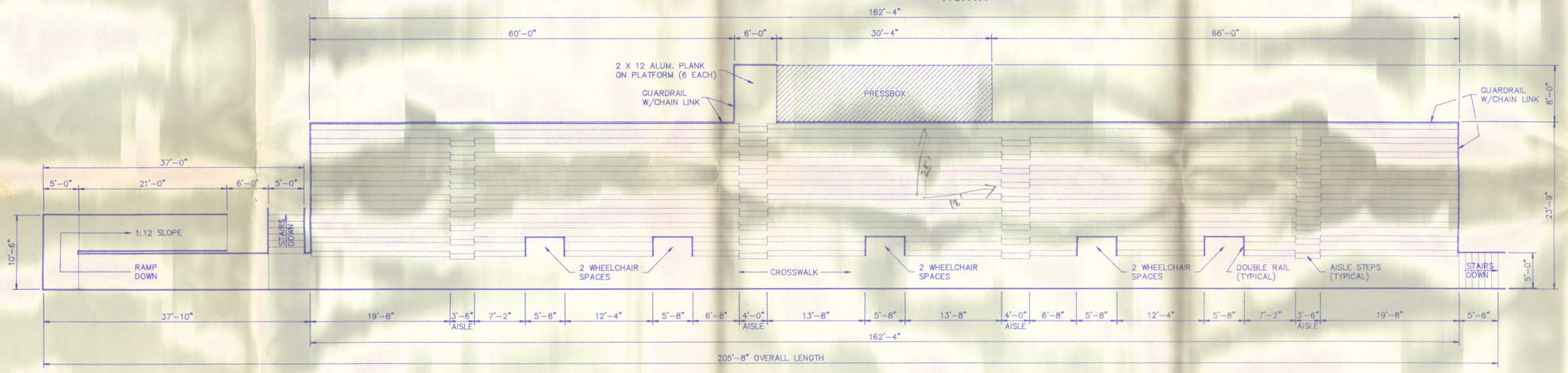
SHEET NO. 2 OF 3

CAMBRIDGE PUBLIC SCHOOLS
SPECTATOR SEATING FACILITY
CAMBRIDGE, NEBRASKA

NOTES:
1. EXISTING BOUNDARY FENCE, STREET LIGHT, PRESSBOX & FIELD LIGHT POLE SHALL BE REMOVED BY SCHOOL DISTRICT.
2. EXISTING FENCE AT TRACK TO REMAIN IN PLACE AS IS.
3. REPLACEMENT OF PERIMETER FENCE AND RELOCATION OF FIELD LIGHT POLE SHALL BE BY SCHOOL DISTRICT AFTER SEATING IS CONSTRUCTED.

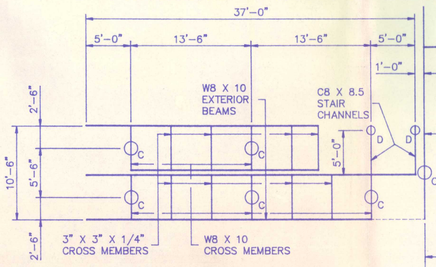


SITE PLAN
SCALE: 1/8" = 1'–0"

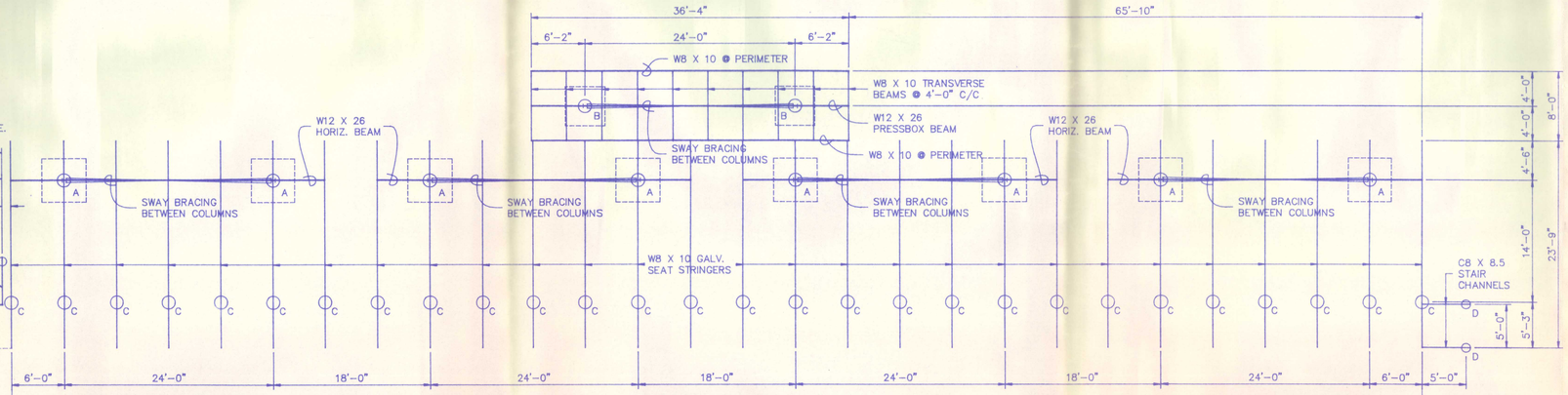


FOOTING SCHEDULE

MARK	DESCRIPTION
A	5'–0" X 5'–0" X 1'–0" SPREAD FOOTING REINFORCED WITH 4 #6 BARS EACH WAY.
B	4'–6" X 4'–6" X 1'–0" SPREAD FOOTING REINFORCED WITH 3 #6 BARS EACH WAY.
	SET 18"ø CONCRETE PIERS ON FOOTINGS A & B. REINFORCE WITH 6 #5 VERTICAL BARS & #3 TIES @ 12" C/C
C	18"ø CONCRETE PIER BELLED OUT TO 2'–8" SQUARE AT BASE. REINFORCE WITH 6 #5 VERTICAL BARS & #3 TIES @ 12" C/C.
D	12"ø CONCRETE PIER. NO REINFORCING MINIMUM FOOTING DEPTH SHALL BE 3'–0" BELOW GRADE.



SEATING PLAN
SCALE: 1/8" = 1'–0"



SEATING CAPACITY

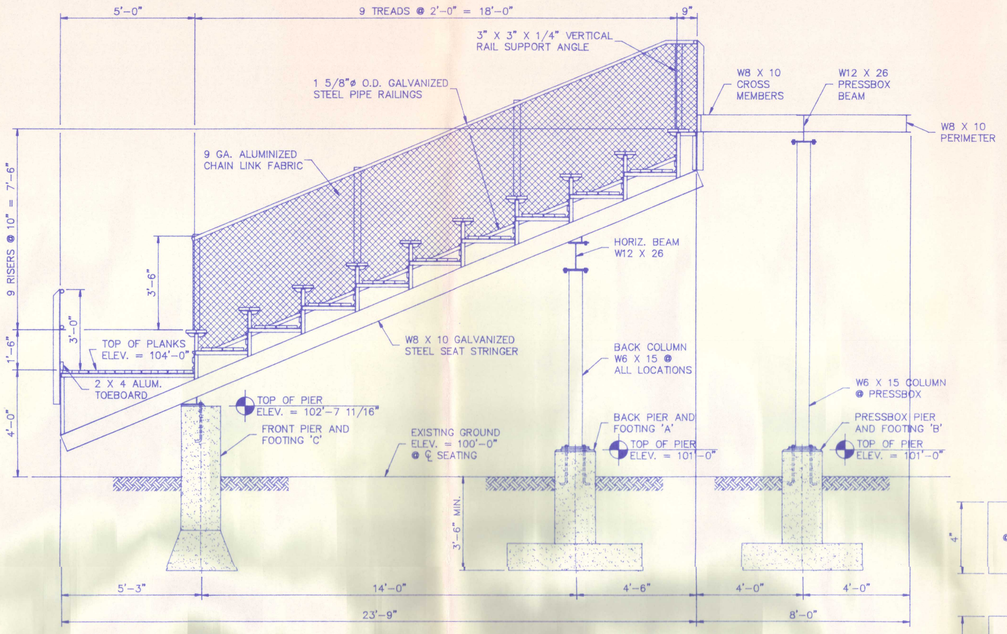
NET BENCH SEATS @ 18" SPACING	944 EACH
WHEELCHAIR SPACES	10 EACH
TOTAL CAPACITY	954 SEATS

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001
4003A–01

REVISIONS

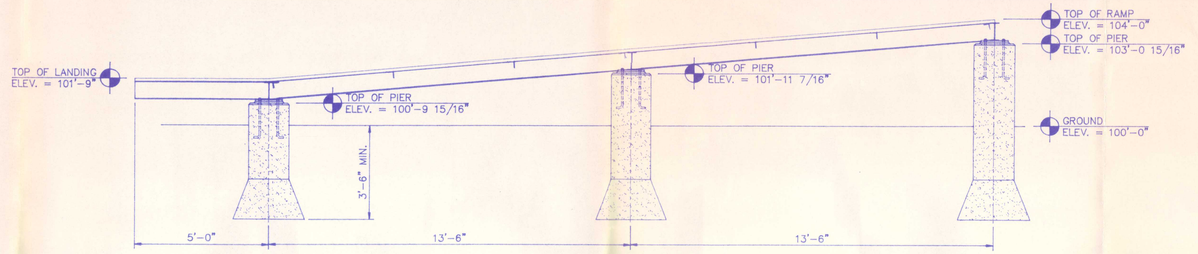
NO.	DATE

A–1



TYPICAL CROSS-SECTION THROUGH STRUCTURE

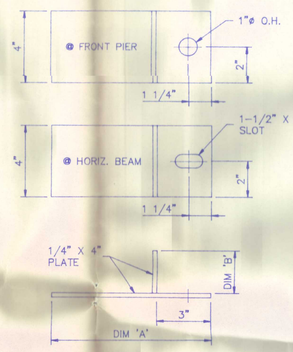
SCALE: 3/8" = 1'-0"

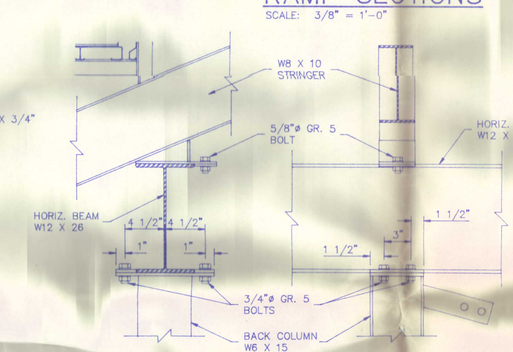


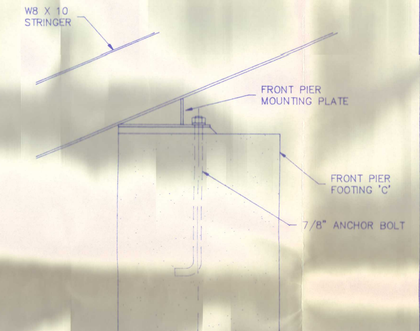
NOTE: PLACE 3" X 3" X 1/4" ANGLE RAIL POSTS AT LOCATION OF ALL CROSS MEMBERS N BOTH SIDES OF RAMP, MAX. 5'-0" SPACING. GUARDRAIL TO BE 1 5/8"ø O.D. GALV. PIPE (2 RAIL) WITH 2 X 4 ALUM. TOEBOARD AND CHAIN LINK FABRIC.

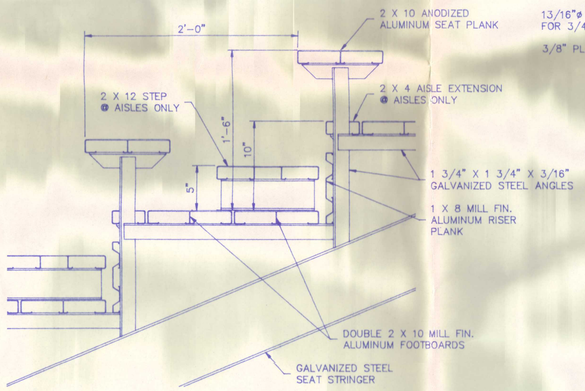
RAMP SECTIONS

SCALE: 3/8" = 1'-0"



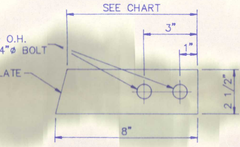






TYPICAL SEAT & FOOTBOARD DETAIL

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



X-BRACE MOUNTING

SCALE: 3" = 1'-0"

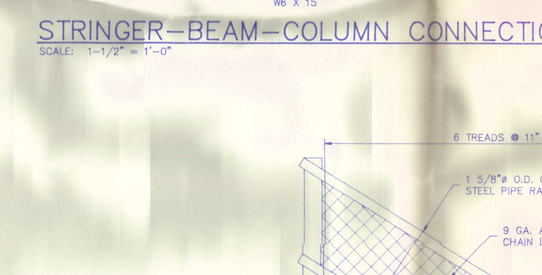
	X-BRACE MOUNTING LENGTH
BACK COLUMN	7 5/16"
PRESSBOX COLUMN	6 13/16"



MOUNTING PLATE

SCALE: 3" = 1'-0"

	MOUNTING PLATE	
	DIM 'A'	DIM 'B'
FRONT PIER	10 1/4"	2 15/16"
BACK COLUMN	9"	2 3/8"

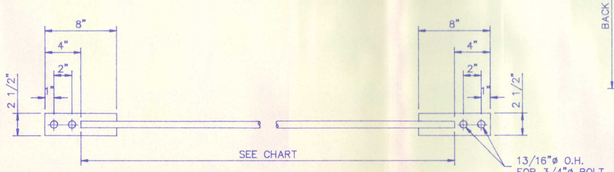


STRINGER-BEAM-COLUMN CONNECTION

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

STRINGER-PIER CONNECTION

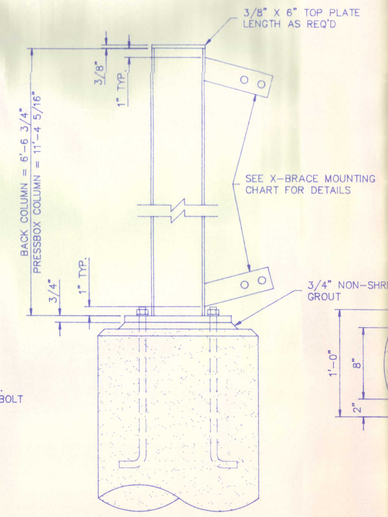
SCALE: 1-1/2" = 1'-0"



X-BRACE DETAIL

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

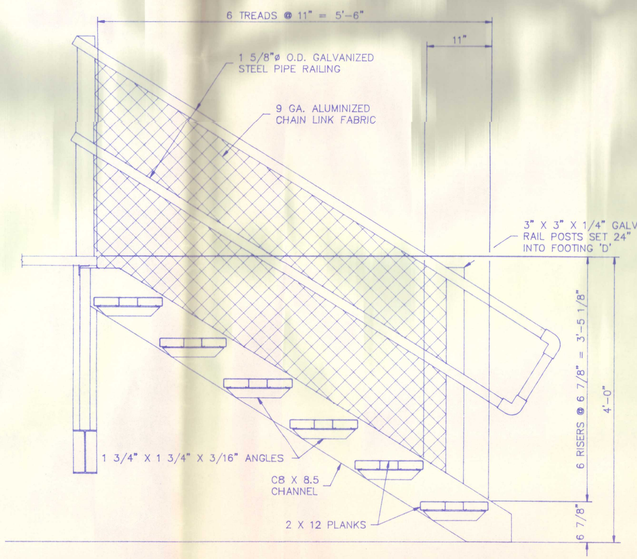
	X-BRACE ROD LENGTHS	
	LENGTH	ROD SIZES
BACK COLUMN	23'-0 1/4"	3/4"ø BRACE ROD UPSET TO 7/8"ø AT TURNBUCKLE
PRESSBOX COLUMN	24'-8 5/16"	3/4"ø BRACE ROD UPSET TO 7/8"ø AT TURNBUCKLE



SECTION PLAN

PIER-COLUMN CONNECTION

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



STAIRS DETAIL

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

CAMBRIDGE PUBLIC SCHOOLS
SPECTATOR SEATING FACILITY
CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

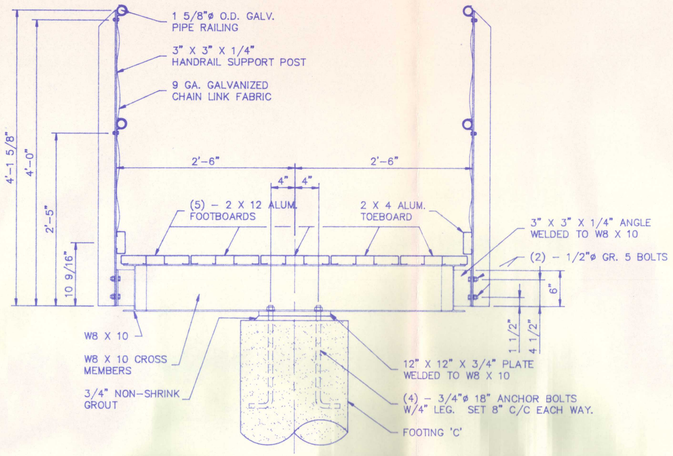
4003A-02

REVISIONS

NO.	DATE

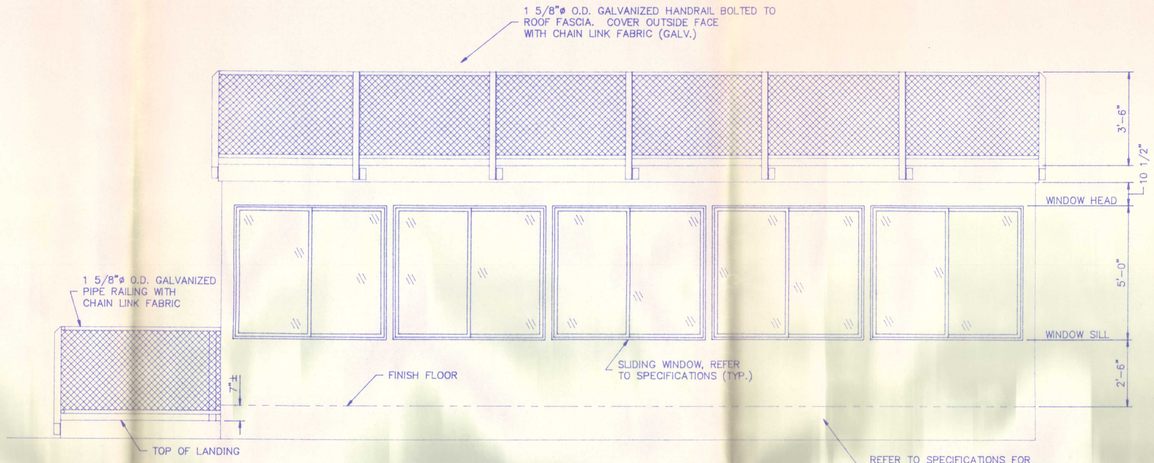
A-2

DATE: MARCH 1994



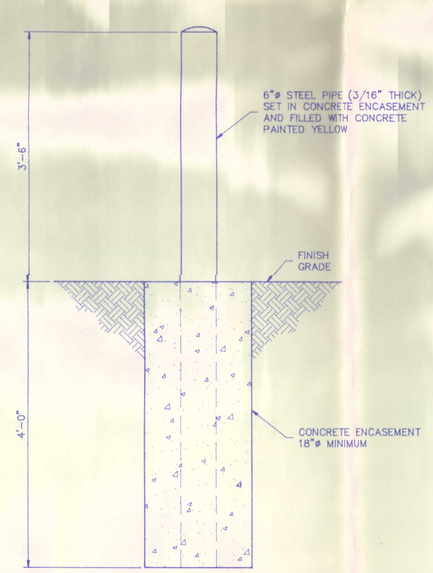
TYPICAL END RAMP ELEVATION

SCALE: 1" = 1'-0"



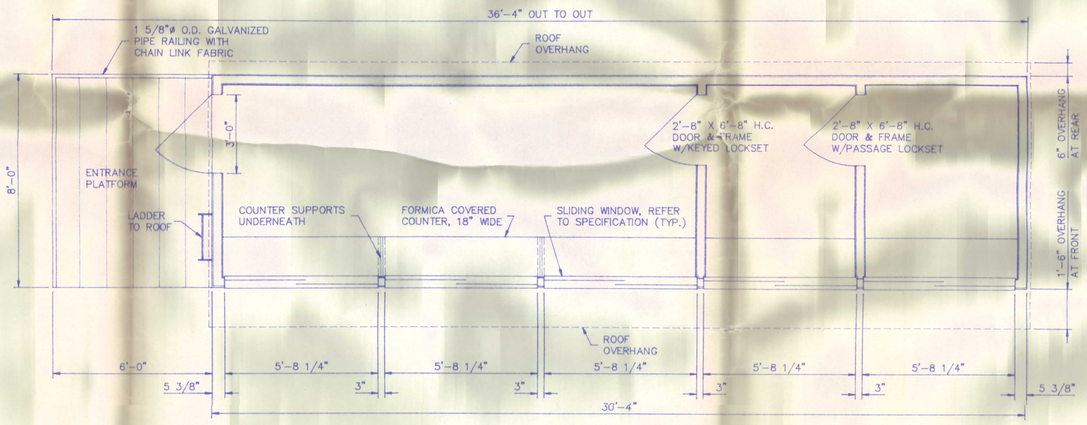
PRESSBOX ELEVATION

SCALE: 3/8" = 1'-0"



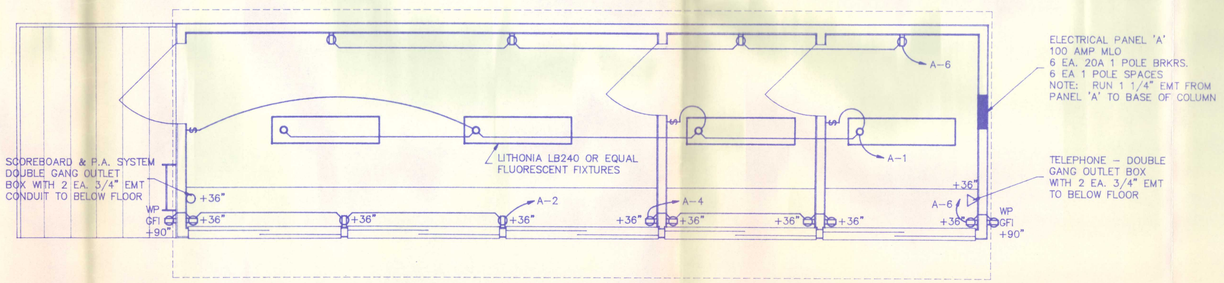
PIPE BOLLARD DETAIL

SCALE: 1" = 1'-0"



PRESSBOX FLOOR PLAN

SCALE: 3/8" = 1'-0"



PRESSBOX ELECTRICAL PLAN

SCALE: 3/8" = 1'-0"

CAMBRIDGE PUBLIC SCHOOLS

SPECTATOR SEATING FACILITY

CAMBRIDGE, NEBRASKA

LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCOOK, NEBRASKA 69001

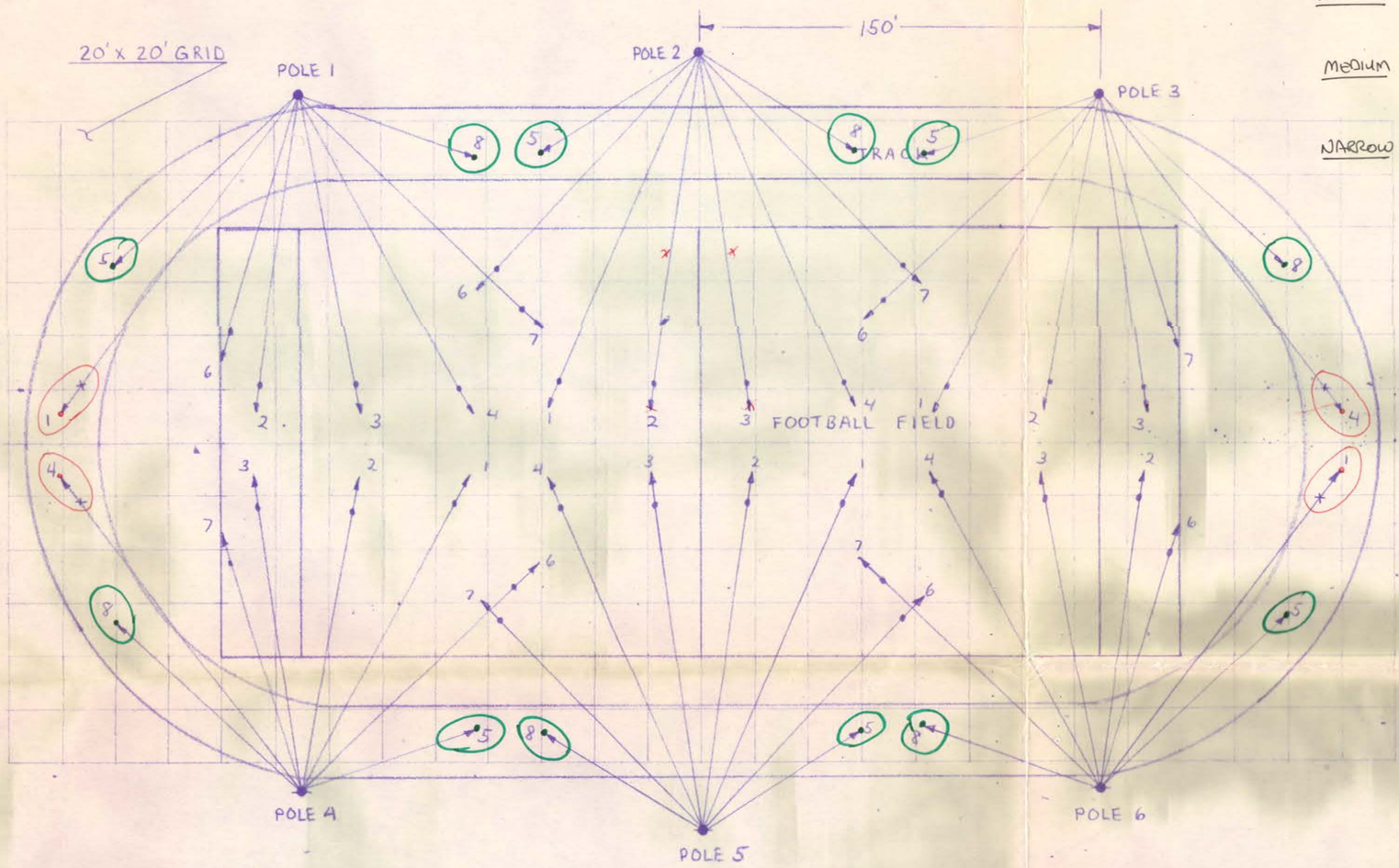
4003A-03

REVISIONS

NO.	DATE

A-3

DATE: MARCH 1994



Beam

FLOODLIGHTS:

WIDE — DENOTES ONE (1) APPLETON "SPORTSMASTER" CAT. NO. G-SM961H - MT ——— 12 REQ'D

MEDIUM — DENOTES ONE (1) APPLETON "SPORTSMASTER" CAT. NO. G-SM941H - MT ——— 32 REQ'D

NARROW — DENOTES ONE (1) APPLETON "SPORTSMASTER" CAT NO. G-SM931H - MT ——— 4 REQ'D

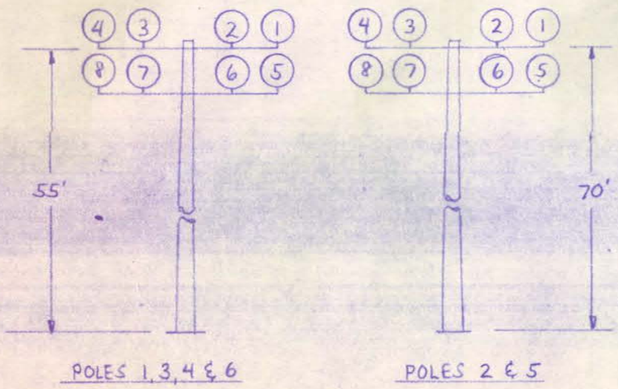
LAMPS:

1500 W, BT-56, METAL HALIDE LAMP
ODERING NO. MVR1500/HBU ——— 48 REQ'D

ACCESSORIES:

CROSSARM MOUNTING BRACKET
CAT NO. G-AM-8-CA ——— 48 REQ'D

POLE	MTG HT	AIMING ANGLE	FLOODLIGHT NO. 1	2	3	4	5	6	7	8
1	SAME AS POLE 6 BELOW									
2	SAME AS POLE 5 BELOW									
3	SAME AS POLE 4 BELOW									
4	55'	HORIZ.	28°R	11°R	8°L	37°L	70°R	46°R	17°L	47°L
		VERT.	23°	25°	25°	21°	38°	25°	29°	31°
5	70'	HORIZ.	23°R	8°R	8°L	23°L	58°R	43°R	43°L	58°L
		VERT.	26°	27°	27°	26°	45°	30°	30°	45°
6	55'	HORIZ.	37°R	8°R	11°L	28°L	47°R	17°R	46°L	70°L
		VERT.	21°	25°	25°	23°	31°	29°	25°	38°



TYPICAL FLOODLIGHT ARRANGEMENT
NUMBERED AS VIEWED FROM BEHIND POLES WHEN FACING TOWARDS FIELD
NOT TO SCALE

MAY 23 1988

REV	BY	DATE	CHANGE
1	GV	5-23-88	AIMING GRID & ANGLES

APPLETON ELECTRIC CO.
LIGHTING PRODUCTS DIVISION
CHICAGO — APPLICATION ENGINEERING — ILLINOIS

DRAWN BY G.V.	TENIPER FIELD	
DATE 12/8/87		
CHECKED BY	SCALE 1" = 40'-0"	871208-1
APP'D BY G.V.		REV.



CAMBRIDGE PUBLIC SCHOOLS — MAIN LEVEL

SCALE: 1" = 20'-0"

SENIOR HIGH BASEMENT

SENIOR HIGH — SECOND FLOOR

NORTH

EQ. RM

ZONE 3

ZONE 2

ZONE 1

FIBER OPTICS

WORK STATION OUTLETS

DWG:	CAMBMAIN
DRAWN:	DLW
CHECKED:	
REVISIONS	

DATE: SEPT. 20, 1995

LBA LLOYD BENJAMIN & ASSOCIATES

Consulting Engineers and Architects

McCook, Nebraska 69001

Hastings, Nebraska 68901

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

CAMBRIDGE PUBLIC SCHOOLS – MAIN LEVEL

SCALE: 1" = 20'-0"

SENIOR HIGH – SECOND FLOOR

SENIOR HIGH BASEMENT

LBA
LLOYD BENJAMIN & ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: CAMBMAIN
DRAWN: DLW
CHECKED:
REVISIONS

DATE: SEPT. 20, 1995

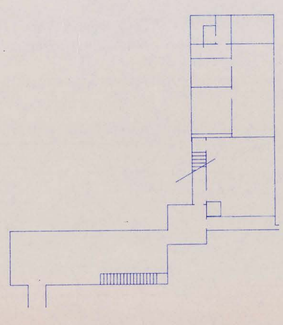
CAMBRIDGE PUBLIC SCHOOLS – MAIN LEVEL

SCALE: 1" = 20'-0"

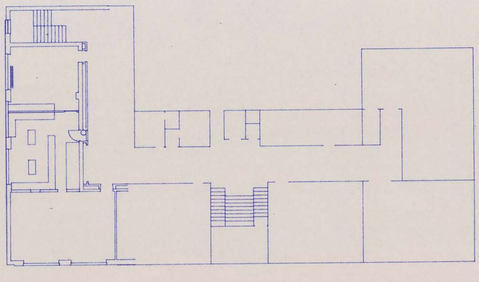


NORTH

SENIOR HIGH BASEMENT



SENIOR HIGH – SECOND FLOOR



DWG:	CAMBMAIN
DRAWN:	DLW
CHECKED:	
REVISIONS	

DATE: SEPT. 20, 1995

LBA LLOYD BENJAMIN & ASSOCIATES

Consulting Engineers and Architects

McCook, Nebraska 69001

Hastings, Nebraska 68901

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

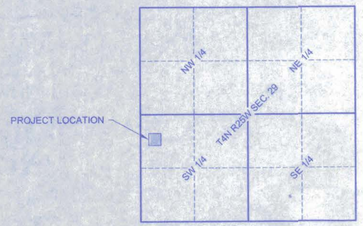
CAMBRIDGE PUBLIC SCHOOLS

NEW HVAC PROJECT

CAMBRIDGE, NEBRASKA

EXPLANATION OF PHASING

PHASE I - HVAC REPLACEMENT IN JUNIOR HIGH AREA.
PHASE II - HVAC REPLACEMENT IN SHOP & OLD LOCKER ROOM AREA.
PHASE III - HVAC REPLACEMENT IN HIGH SCHOOL AREA.



LOCATION MAP
NO SCALE

ALTERNATE No. 1

SUBSTITUTE AN EQUALLY SIZED AIR SOURCE HEAT PUMP WITH ELECTRIC BACK-UP IN PLACE OF THE FURNACES WITH AIR CONDITIONERS. INCLUDE THE UPGRADE OF ELECTRICAL WIRING, CIRCUIT BREAKERS & DISCONNECTS. THE INDOOR UNIT AND BACK-UP ELECTRIC HEAT SHALL BE SINGLE SOURCE POWER SUPPLY AND OUTDOOR UNIT SHALL BOTH BE 208V, 3-PHASE. ROUTE ALL ELECTRICAL TO NEW ELECTRICAL PANELS "E" AND "F" FOR PHASE No. 1 AND No. 3. FOR PHASE No. 2 ROUTE ALL ELECTRICAL TO EXISTING PANELS "H", "S-1" AND "S-2" IN SHOP STORAGE AREAS.

ALTERNATE No. 2

SUBSTITUTE AN EQUALLY SIZED AIR SOURCE HEAT PUMP WITH GAS BACK-UP IN PLACE OF THE FURNACES WITH AIR CONDITIONERS. THE OUTDOOR UNIT SHALL BE 208V, 3-PHASE. INCLUDE THE UPGRADE OF ELECTRICAL WIRING, CIRCUIT BREAKERS AND DISCONNECTS.

ALTERNATE No. 3

REMOVE ALL STEAM AND HEATING WATER PIPING, TWO BOILERS, HEAT EXCHANGERS, FRESH AIR AIR-HANDLER, FAN MOTOR, BOILER FLUES AND ALL ASSOCIATED EQUIPMENT AND CONTROLS FOR THE BOILERS.

ALTERNATE No. 4

AUDITORIUM HEAT ONLY. ADD CUH-1, CUH-2 AND CUH-3 IN PLACE OF RTU-1, RTU-2 AND RTU-3 AND ASSOCIATED DUCTWORK, GRILLES, ETC. PERTAINING TO THE HEATING AND COOLING OF THE AUDITORIUM.

ALTERNATE No. 5

AUDITORIUM HEAT ONLY. ADD F-11 AND F-12 IN PLACE OF RTU-1, RTU-2 AND RTU-3.

NOTE:

ALTERNATE No. 1 AND No. 2 INCLUDE ALL WIRING, UP SIZING OF PANELS "E", "G", "F" AND CIRCUIT BREAKER IN EXISTING MDP-2.

SHEET INDEX

D-1 PHASE #1 DEMOLITION JUNIOR HIGH FLOOR PLAN
D-2 PHASE #2 DEMOLITION SHOP & LOCKER ROOM FLOOR PLAN
D-3 PHASE #3 DEMOLITION FIRST FLOOR PLAN
D-4 PHASE #3 DEMOLITION SECOND FLOOR PLAN
A-1 NEW ARCHITECTURAL PLAN
M-1 PHASE #1 NEW HVAC JUNIOR HIGH FLOOR PLAN & DETAILS
M-2 PHASE #2 NEW HVAC SHOP & LOCKER ROOM FLOOR PLAN & DETAILS
M-3 PHASE #3 NEW HVAC FIRST FLOOR PLAN & DETAILS
M-4 PHASE #3 NEW HVAC SECOND FLOOR PLAN & DETAILS
M-5 HVAC PLAN, DETAILS & SCHEDULES
E-1 PHASE #1 NEW ELECTRICAL JUNIOR HIGH FLOOR PLAN
E-2 PHASE #2 NEW ELECTRICAL SHOP & LOCKER ROOM FLOOR PLAN
E-3 PHASE #3 NEW ELECTRICAL FIRST FLOOR PLAN
E-4 PHASE #3 NEW ELECTRICAL SECOND FLOOR PLAN



LOCATION MAP
NO SCALE

NORTH

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NEW HVAC PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

REGISTERED CIVIL ENGINEER GREG A. WOLFORD E-9662 STATE OF NEBRASKA

REGISTERED ARCHITECT DAVID W. SCHOVER A-1500 STATE OF NEBRASKA

DWG: 846-SCHOVER
DRAWN: BF
CHECKED:
REVISIONS

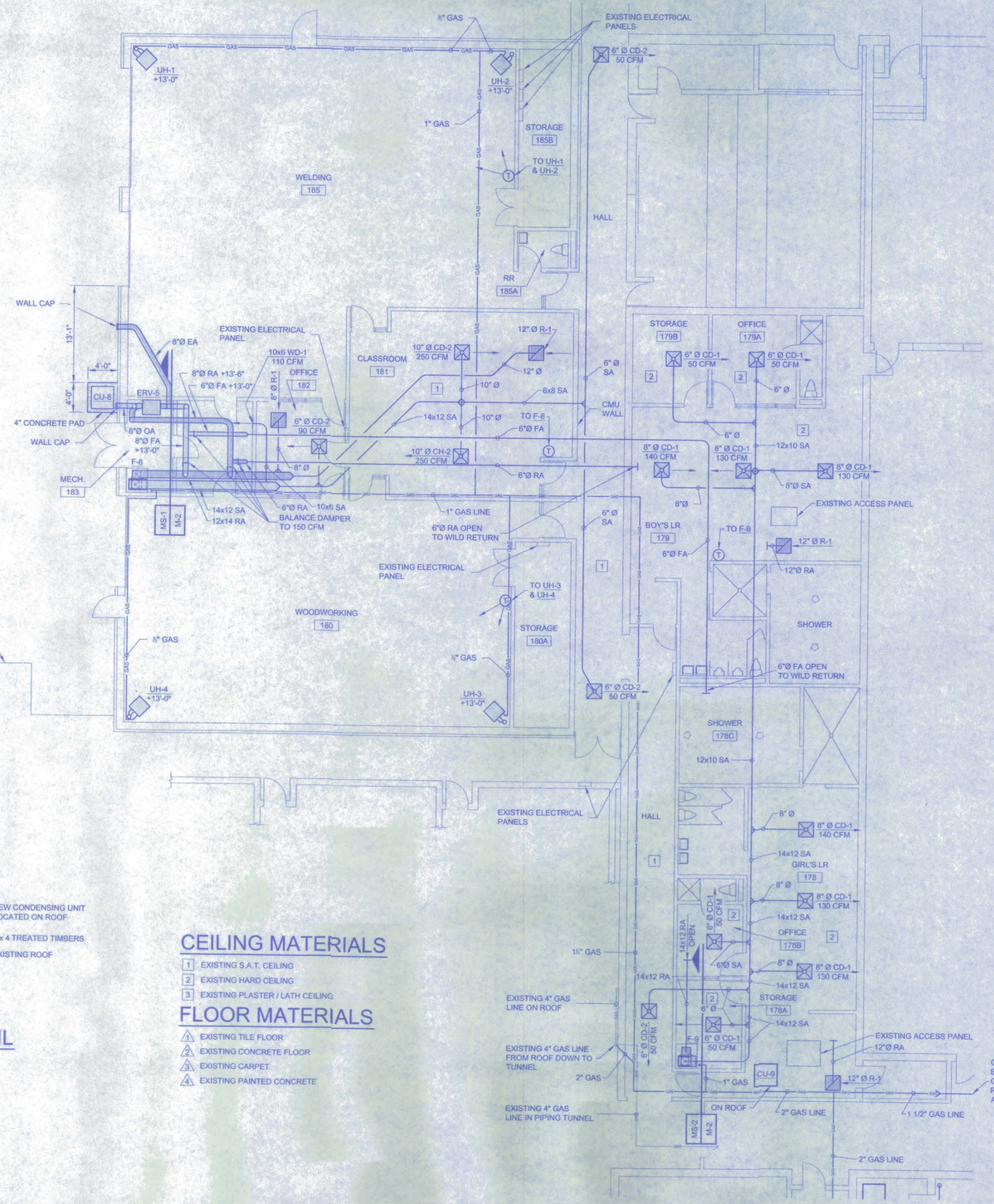
DATE: JAN., 2006

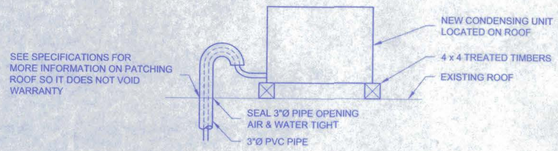
MECHANICAL FLAG NOTES:

1. COORDINATE ROOF OPENINGS WITH ROOF STRUCTURE.
2. PROVIDE OUTWATER LLC. MODEL WWG-316C-AS INTERCRIMPED ANTIQUE SILVER WOVEN WIRE GRILL IN PLACE OF GLASS. WEB SITE: WWW.ARCHPRO.COM.
3. LOCATE DIFFUSER SO IT DOES NOT INTERFERE WITH THE STAGE CURTAINS.
4. LOCATE GRILLE SO IT DOES NOT INTERFERE WITH THE STAGE CURTAINS.
5. 6" Ø RA UP TO IH-3.
6. 6" Ø EA UP TO EH-3.
7. 14"x8" FA UP INTO THE BOTTOM OF RA DUCTWORK.
8. PROVIDE BALANCE DAMPERS. BALANCE TO 330 CFM.
9. EXISTING WINDOW TO BE GLUED CLOSED AND GLASS TO BE PAINTED WHITE TO CONCEAL MECHANICAL EQUIPMENT.
10. LOCATE DUCT BETWEEN CEILING JOISTS.
11. BRICK WITH PLASTER AND METAL LATH WALL.
12. CONCENTRIC VENT.
13. 3" VENT.
14. 3" SUPPLY AIR.
15. RA DOWN TO RA PLENUM.
16. ROUTE REFRIGERANT PIPING PER MANUFACTURE'S RECOMMENDATIONS.
17. PROVIDE CHASE FOR REFRIGERANT PIPING. SIZE FOR ALL PIPING SHALL BE BUILT OUT OF STEEL STUDS, 5/8" SHEETROCK. THE OUTSIDE OF THE CHASE SHALL BE TEXTURED AND PAINTED WHITE.

GENERAL NOTES:

1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.
2. COORDINATE SA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.
3. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.
4. ROUTE DUCTWORK AROUND ELECTRICAL PANELS PER N.E.C.
5. IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.





CONDENSING UNIT DETAIL

NO SCALE

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

PHASE #2 - LOCKER ROOM/SHOP AREAS NEW MECHANICAL PLAN

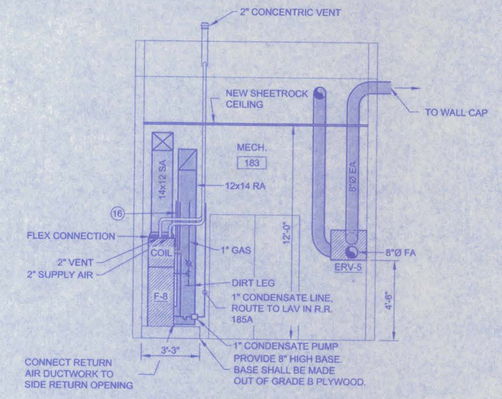
SCALE: 1/8" = 1'-0"

NORTH

NOTE:
SEE MECHANICAL NOTES ON PAGE M-1

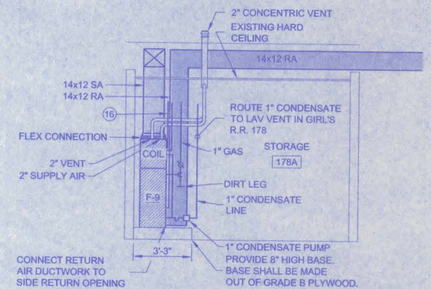
LEGEND:

- NEW SUPPLY AIR DIFFUSER
- EXISTING SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- THERMOSTAT, 5'-0" AFF (T)



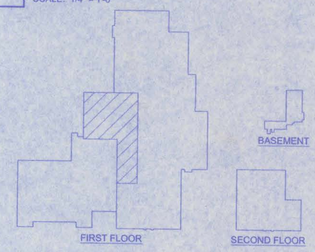
SHOP MECHANICAL ROOM EAST ELEVATION

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



LOCKER ROOM MECHANICAL ROOM EAST ELEVATION

MS-2
SCALE: 1/4" = 1'-0"



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

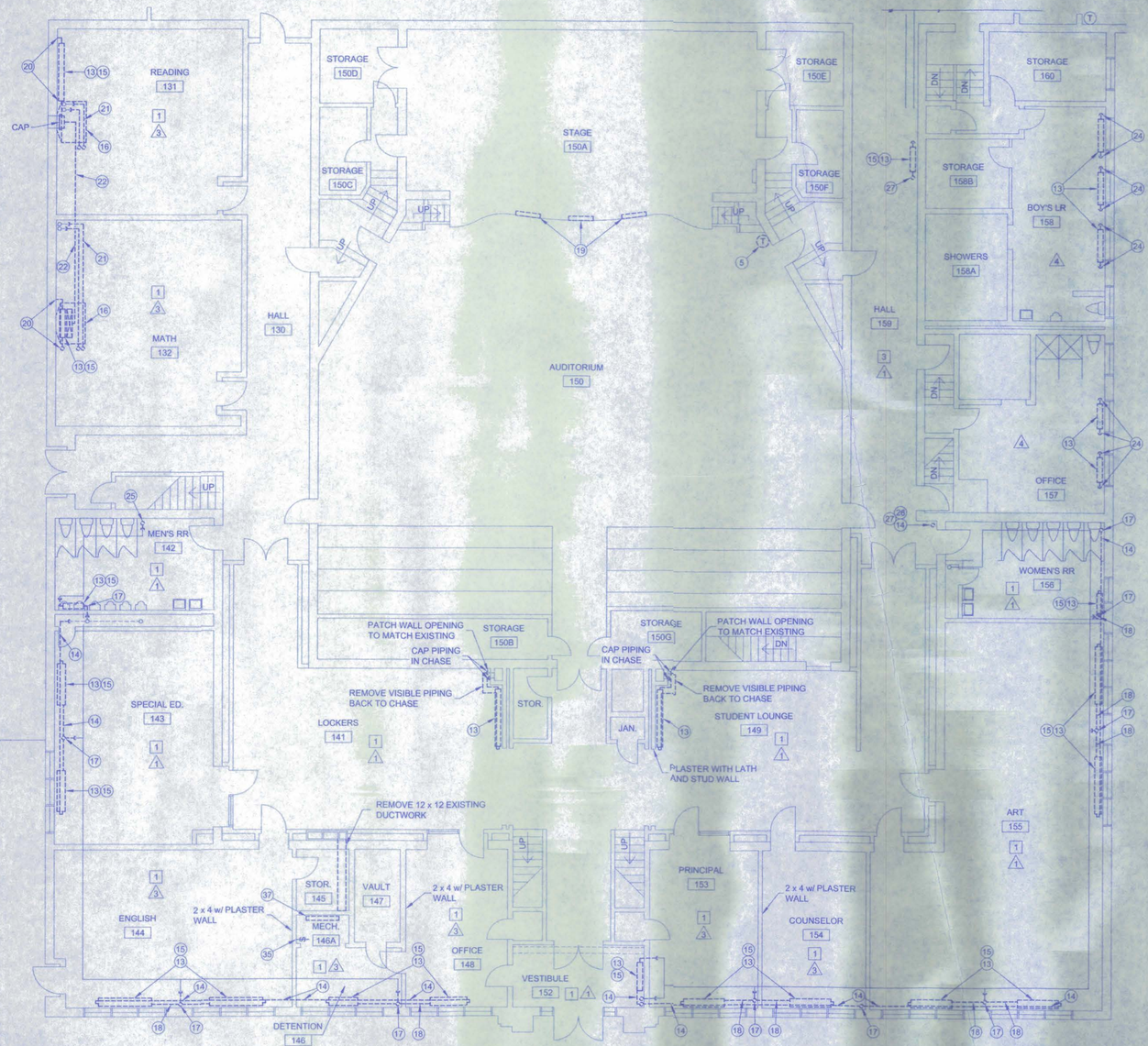
WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-0864-01
DRAWN: BF
CHECKED:
REVISIONS

M-2

DATE: JAN., 2006

COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction site are prohibited by the copyright law.



PHASE #3 - FIRST FLOOR DEMOLITION PLAN

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

LEGEND:

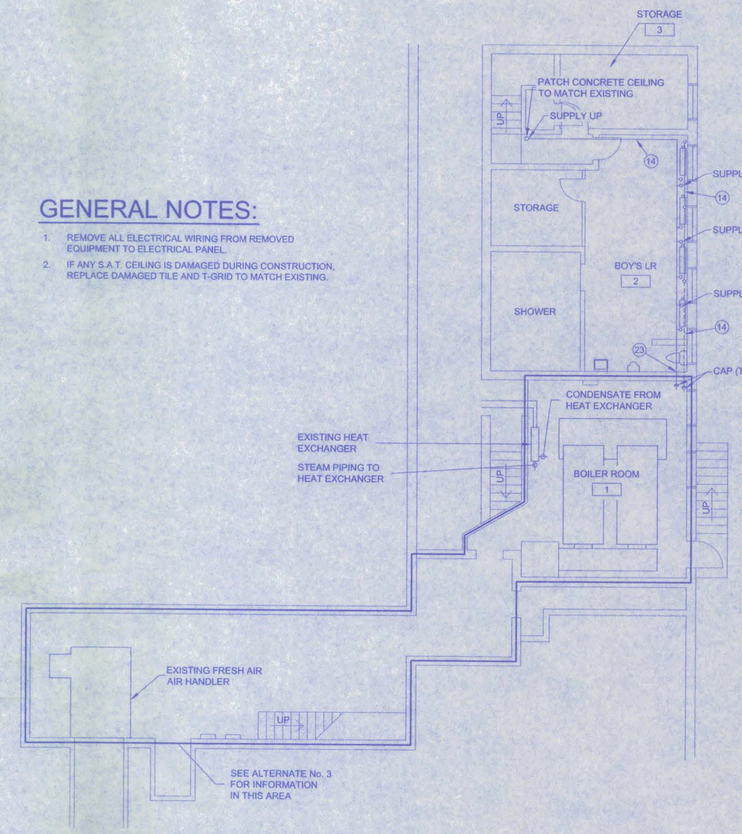
- HEATING WATER RETURN ---HWR---
- HEATING WATER SUPPLY ---HWS---
- DEMOLITION LINE
- PIPING CAP
- EXISTING SUPPLY DIFFUSER
- EXISTING RETURN GRILLE

NOTE:

SEE DEMOLITION NOTES ON PAGE D-1

GENERAL NOTES:

1. REMOVE ALL ELECTRICAL WIRING FROM REMOVED EQUIPMENT TO ELECTRICAL PANEL.
2. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.



PHASE #3 - BASEMENT DEMOLITION PLAN

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

PHASING NOTES:

1. IF PHASE No. 1 & No. 2 ARE ACCEPTED, CAP STEAM PIPING GOING TO HEAT EXCHANGER AT MAIN STEAM LINE.
2. IF PHASE No. 1 & No. 3 ARE ACCEPTED, CAP STEAM PIPING THAT GOES OUT TO THE RADIATORS AND CAP CONDENSING PIPING COMING BACK FROM RADIATOR JUST AFTER THE HEAT EXCHANGER. TAKE OFFS: REPLUMB STEAM PIPING AND CONDENSING PIPING FROM BOILER TO HEAT EXCHANGER.

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

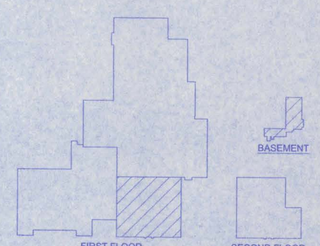
FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES HAVE ASBESTOS EMBEDDED WITHIN THEM. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS.

NORTH



BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

PROFESSIONAL ENGINEER GREG A. WOLFORD E - 6362 STATE OF NEBRASKA

DWG: 848-050-01
DRAWN: BF
CHECKED:
REVISIONS:

D-3

DATE: JAN., 2006

LEGEND:

- NEW SUPPLY AIR DIFFUSER
- EXISTING SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- THERMOSTAT, 5'-0" AFF (T)

MECHANICAL FLAG NOTES:

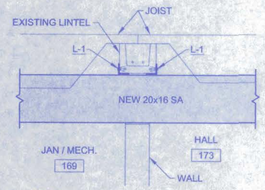
1. COORDINATE ROOF OPENINGS WITH ROOF STRUCTURE.
2. PROVIDE OUTWATER LLC. MODEL WWG-316C-AS INTERCRIMPED ANTIQUE SILVER WOVEN WIRE GRILL IN PLACE OF GLASS. WEB SITE: WWW.ARCHPRO.COM.
3. LOCATE DIFFUSER SO IT DOES NOT INTERFERE WITH THE STAGE CURTAINS.
4. LOCATE GRILLE SO IT DOES NOT INTERFERE WITH THE STAGE CURTAINS.
5. 6" Ø RA UP TO IH-3.
6. 6" Ø EA UP TO EH-3.
7. 14"x8" FA UP INTO THE BOTTOM OF RA DUCTWORK.
8. PROVIDE BALANCE DAMPERS. BALANCE TO 330 CFM.
9. EXISTING WINDOW TO BE GLUED CLOSED AND GLASS TO BE PAINTED WHITE. COVER OPENING WITH 56"x26" PLYWOOD PANEL.
10. LOCATE DUCT BETWEEN CEILING JOISTS.
11. BRICK WITH PLASTER AND METAL LATH WALL.
12. CONCENTRIC VENT.
13. 3" VENT.
14. 3" SUPPLY AIR.
15. RA DOWN TO RA PLENUM.
16. ROUTE REFRIGERANT PIPING PER MANUFACTURE'S RECOMMENDATIONS.
17. PROVIDE CHASE FOR REFRIGERANT PIPING. SIZE FOR ALL PIPING. SHALL BE BUILT OUT OF STEEL STUDS, 5/8" SHEETROCK. THE OUTSIDE OF THE CHASE SHALL BE TEXTURED AND PAINTED WHITE.

GENERAL NOTES:

1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.
2. COORDINATE SA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.
3. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.
4. ROUTE DUCTWORK AROUND ELECTRICAL PANELS PER N.E.C.
5. IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.

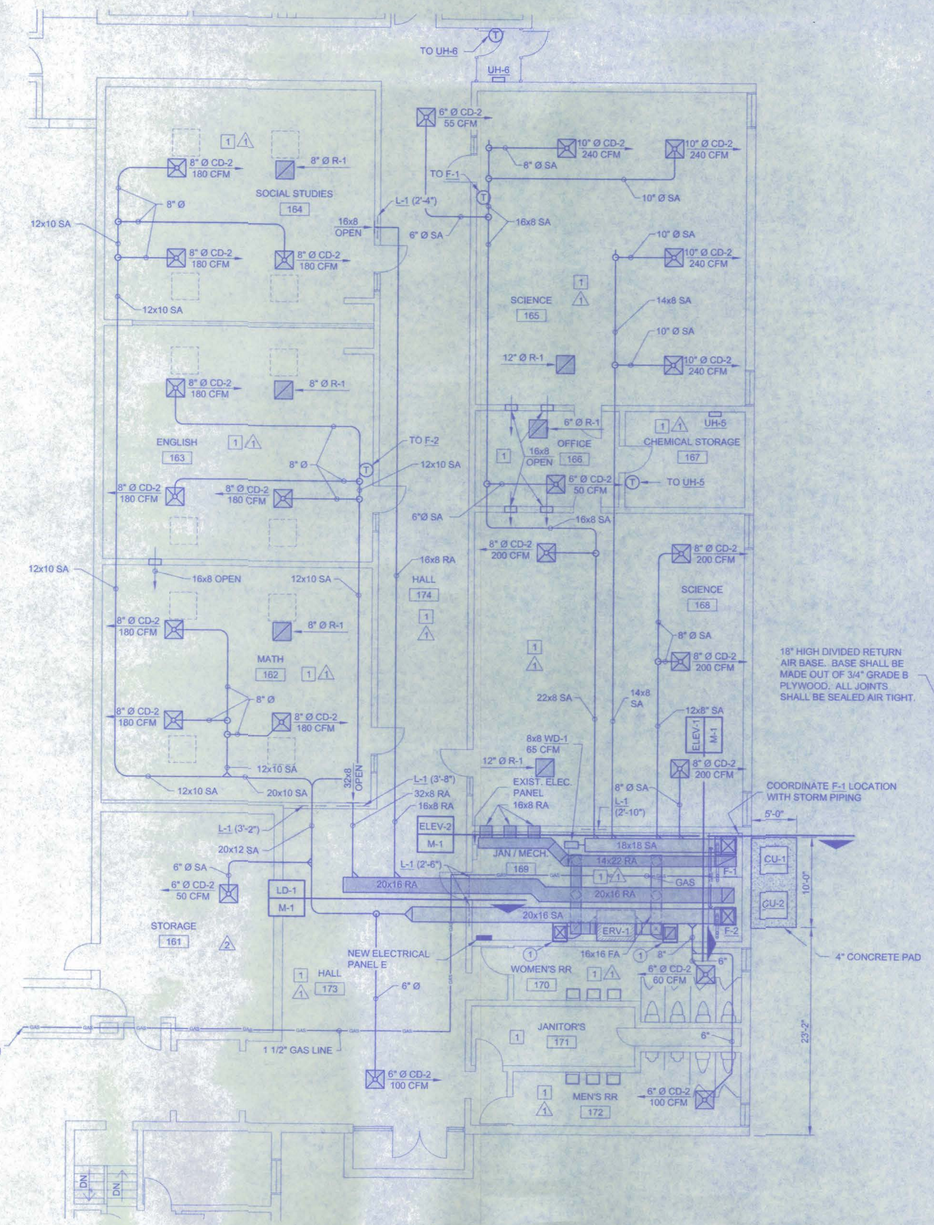
LINTEL SCHEDULE

MARK	DESCRIPTION	NOTES
L-1	(2) 3½ x 3½ x ¼ L	SEE FLOOR PLAN FOR LENGTHS

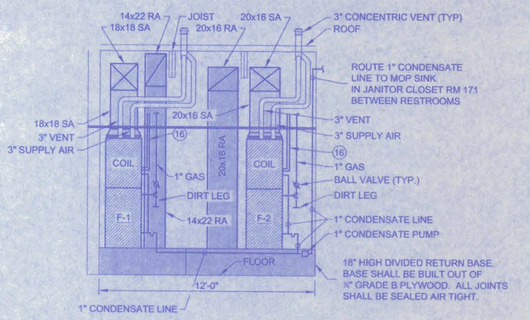


NOTE:
ANCHOR NEW LINTELS TO EXISTING CMU WALLS WITH EXPANSION BOLTS.

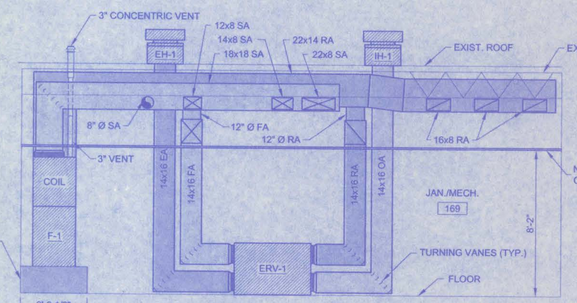
LD-1 **LINTEL DETAIL**
SCALE: 1/2" = 1'-0"



PHASE #1 - JUNIOR HIGH CLASSROOMS NEW MECHANICAL PLAN
SCALE: 1/8" = 1'-0"



ELEV-1 **JAN. / MECH. ROOM 169 EAST ELEVATION**
SCALE: 1/4" = 1'-0"



ELEV-2 **JAN. / MECH. ROOM 169 SOUTH ELEVATION**
SCALE: 1/4" = 1'-0"

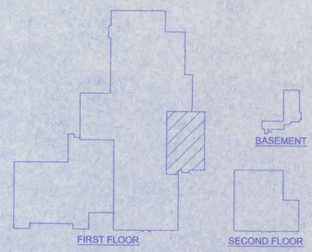
CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

NORTH



BUILDING KEY
NOT TO SCALE

NEW HVAC PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901



DWG: 848-0084-01
DRAWN: BF
CHECKED:
REVISIONS

M-1

DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NOTE:

SEE DEMOLITION NOTES ON PAGE D-1

LEGEND:

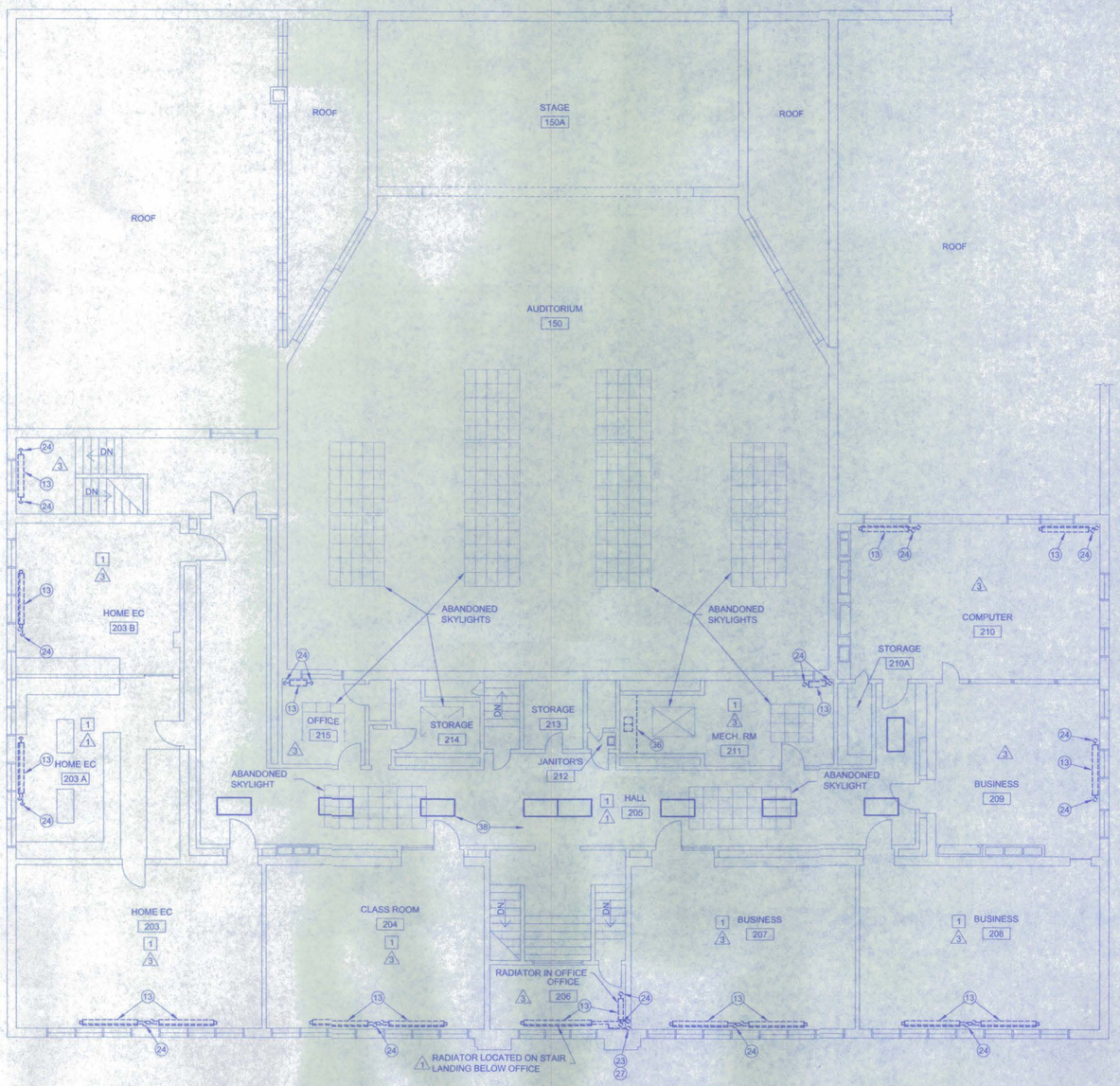
HEATING WATER RETURN	---HWR---
HEATING WATER SUPPLY	---HWS---
DEMOLITION LINE	----------
PIPING CAP	
EXISTING SUPPLY DIFFUSER	
EXISTING RETURN GRILLE	

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE



PHASE #3 - SECOND FLOOR DEMOLITION PLAN

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

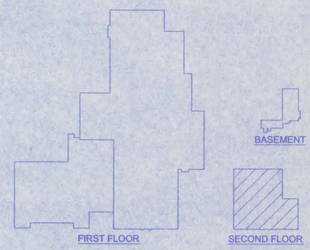
NORTH

GENERAL NOTES:

1. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES HAVE ASBESTOS EMBEDDED WITHIN THEM. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS.



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

PROFESSIONAL CIVIL ENGINEER GREG A. WOLFORD E-6362 STATE OF NEBRASKA

DWG: 848-05D-01
DRAWN: BF
CHECKED:
REVISIONS

D-4

DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

DEMOLITION FLAG NOTES:

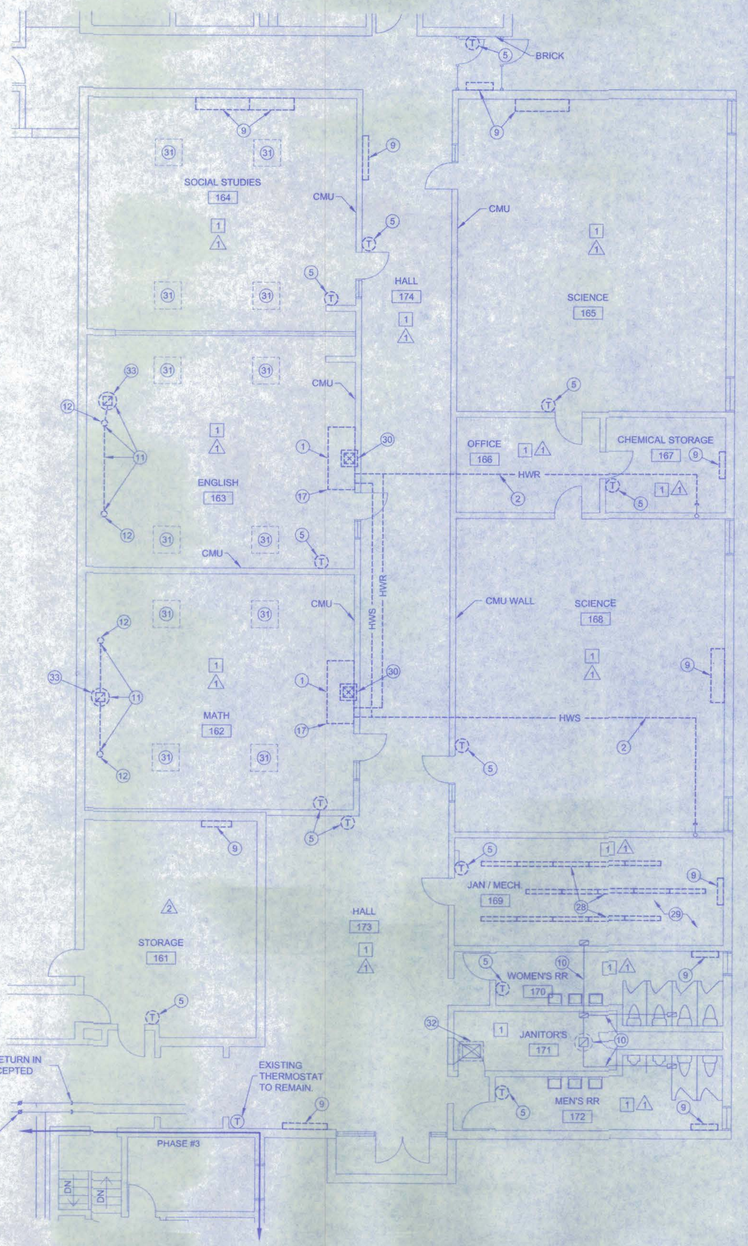
1. REMOVE CEILING MOUNTED FAN COIL UNIT, ASSOCIATED CONTROL & ELECTRICAL WIRING. REPAIR CEILING TO MATCH CEILING TYPE AND COLOR
2. REMOVE HEATING SUPPLY AND RETURN PIPING BACK TO CAPS
3. REMOVE EXISTING DIFFUSER.
4. REMOVE EXISTING RETURN GRILLE.
5. REMOVE THERMOSTATS, WIRING TO ASSOCIATED EQUIPMENT. PATCH AND PAINT WALL OPENINGS TO MATCH WALL.
6. PATCH & PAINT PIPE OPENING IN CMU WALL.
7. ABANDON HEATING WATER PIPING IN PLACE.
8. REMOVE UNIT HEATER AND ASSOCIATED CONTROLS & ELECTRICAL WIRING.
9. REMOVE WALL MOUNTED FAN COIL UNIT, ASSOCIATED CONTROL AND ELECTRICAL WIRING. REPAIR WALL TO MATCH EXISTING WALL TYPE AND COLOR. CAP SUPPLY AND RETURN PIPE IN TUNNEL. REPAIR FLOOR TO MATCH EXISTING FLOOR TYPE & COVERING.
10. EXHAUST FAN AND DUCTWORK TO REMAIN.
11. REMOVE EXHAUST FAN, ROOF CURB, DUCTWORK, REGISTERS, ASSOCIATED CONTROL AND ELECTRICAL WIRING.
12. REPLACE 4'x2' SAT CEILING TILE WHERE REGISTERS WERE REMOVED.
13. REMOVE RADIATOR, THERMOSTAT, & VISIBLE PIPING. PATCH FLOOR TO MATCH EXISTING. (SEE PLANS FOR FLOOR TYPES)
14. REMOVE ALL VISIBLE HEATING PIPING.
15. PATCH WALL AND PAINT TO MATCH EXISTING WALL TYPE AND COLOR BEHIND REMOVED RADIATOR AND PIPING.
16. REMOVE EXISTING TRANE COOLING UNIT, THERMOSTAT, CONTROLS, AND PIPING.
17. REPLACE SAT CEILING TILE TO MATCH EXISTING CEILING TILE WHERE EQUIPMENT, PIPING, ETC. WERE REMOVED.
18. REMOVE STEAM SUPPLY PIPING FROM RADIATOR TO NEW PIPING CAP LOCATIONS.
19. REMOVE FAN COIL UNIT AND WOOD SIDE PANELS BELOW STAGE. 90"x28" OPENING SHALL BE PATCHED WITH PLASTER OVER METAL LATH AND STEEL STUDS.
20. REMOVE STEAM SUPPLY AND RETURN PIPING FROM RADIATOR TO BEHIND WALL AND BELOW FLOOR.
21. REMOVE CHILLED WATER SUPPLY LINE BACK TO NEW CAP LOCATIONS. (COORDINATE DISCONNECTION WITH HEAD CUSTODIAN BEFORE DISCONNECTING CHILLED WATER LINES.)
22. REMOVE FRESH AIR DUCTWORK FROM UNITS TO NEW DUCTWORK CAP, VERIFY DUCTWORK SIZE.
23. PATCH AND PAINT WALL OPENING TO MATCH TYPE AND COLOR OF EXISTING WALL.
24. REMOVE SUPPLY AND RETURN PIPING BELOW FLOOR. PATCH FLOOR OPENINGS TO MATCH EXISTING FLOOR AND COVERINGS.
25. REMOVE SUPPLY LINE FROM ABOVE CEILING TO BELOW FLOOR. REPLACE CEILING TILE AND PATCH FLOOR TO MATCH EXISTING FLOORING.
26. REPAIR FLOOR TO MATCH EXISTING FLOOR TYPE & COVERING.
27. PATCH AND PAINT CEILING OPENINGS WHERE PIPING WAS ROUTED TO MATCH EXISTING CEILING TYPE AND COLOR.
28. REMOVE EXISTING LIGHTS, RETAIN FOR REINSTALLATION. LIGHTS ARE TO BE CLEANED AND REINSTALLED SEE SHEET E-1 FOR LOCATIONS.
29. REMOVE EXISTING SAT CEILING & HANGERS.
30. REMOVE EXISTING OUTSIDE AIR DUCTWORK, ROOF CURB, AND HOOD. PATCH ROOF OPENING. SEE SPECIFICATION FOR MORE INFORMATION.
31. ABANDONED SKYLIGHT STRUCTURE TO REMAIN IN PLACE.
32. DUCTWORK, GRILLE, AND HOOD TO REMAIN IN PLACE.
33. PATCH ROOF OPENING. SEE SPECIFICATION FOR MORE INFORMATION SO WARRANTY IS NOT VOIDED.
34. REMOVE ABOVE CEILING FAN COIL UNIT, ASSOCIATED CONTROLS & ELECTRICAL WIRING.
35. REMOVE LIGHT SWITCH, PATCH & PAINT WALL TO MATCH EXISTING.
36. REMOVE CABINETS, SINK, FAUCET, WASTE & VENT PIPING, HOT AND COLD WATER PIPING. CAP WASTE, VENT, HOT AND COLD WATER PIPING IN WALL. PATCH WALL TO MATCH EXISTING WALL TEXTURE AND COLOR.
37. REMOVE LIGHT FIXTURE AND SWITCH, RETAIN FOR REINSTALLATION. SEE ELECTRICAL SHEET E-1 FOR NEW LOCATION.
38. S.A.T. CEILING AND LIGHTS CAN BE TAKEN DOWN FOR EASE OF INSTALLATION OF DUCTWORK. REINSTALL S.A.T. CEILING AND LIGHTS AT SAME HEIGHT AND LOCATION ONCE DUCT WORK IS INSTALLED.

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE



PHASE #1 - JUNIOR HIGH CLASSROOMS DEMOLITION PLAN

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

LEGEND:

- HEATING WATER RETURN ---- HWR ----
- HEATING WATER SUPPLY ---- HWS ----
- DEMOLITION LINE ----------
- PIPING CAP
- EXISTING SUPPLY DIFFUSER
- EXISTING RETURN GRILLE

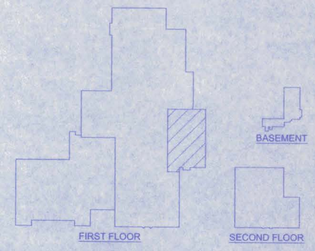
GENERAL NOTES:

1. ALL CMU WALLS WERE BUILT TO STRUCTURE.
2. CORRIDOR WALLS RUNNING NORTH/SOUTH ARE LOAD BEARING.
3. REMOVE ALL ELECTRICAL WIRING FROM REMOVED EQUIPMENT TO ELECTRICAL PANEL.
4. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES HAVE ASBESTOS EMBEDDED WITHIN THEM. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS.

NORTH



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

PROFESSIONAL ENGINEER GREG A. VEIT, P.E. 8282 STATE OF NEBRASKA

DWG: 848-060-01
DRAWN: BF
CHECKED:
REVISIONS:

D-1

DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction ideas are prohibited by the copyright law.

PANEL E

Janitor's Room (Phase #1)

SERVICE:		120/208 V. 3P. 4W	
PANEL:		100 A. MAIN BREAKER SQUARE D CLASS 1130	
TCL:		26,712	

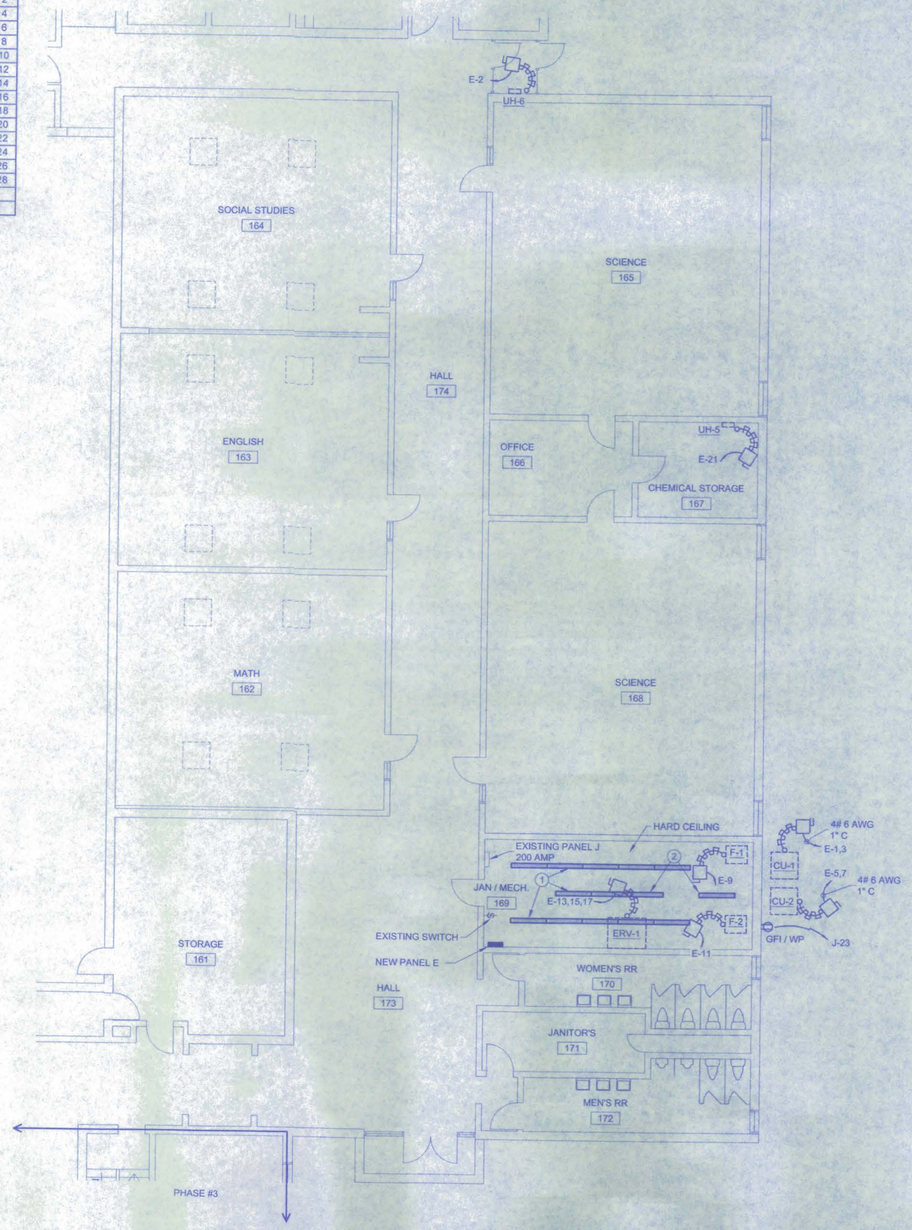
CIR. NO.	LOAD VA	LTS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	LTS	LOAD V.A.	CIR. NO.
1	7779			CU-1	55	1	20	UH-7 (Phase #3)			1706	2
3						2						4
5	7779			CU-2	55	3						6
7						1						8
9	1680			F-1	20	2	20	UH-8 (Phase #3)			1706	10
11	1680			F-2	20	3						12
13						1						14
15	1165			ERV-1	20	2	20	UH-9 (Phase #3)			1706	16
17						3						18
19				SPACE		1						20
21	1512			UH-5 & UH-6	20	2						22
23						3						24
25						1						26
27						2						28
								TOTAL PANEL LOAD			26712	
								Amps			87	

ELECTRICAL FLAG NOTES:

1. REINSTALL ALL LIGHTS EXCEPT TWO AT LOCATIONS SHOWN. WIRE EXISTING BACK TO POWER AND EXISTING SWITCH. COORDINATE WITH ACCESS PANELS.
2. COORDINATE LIGHTS WITH CEILING ACCESS PANEL.

GENERAL NOTES:

1. PROVIDE UPDATED CIRCUIT BREAKER LISTINGS IN EXISTING PANELS THAT HAVE EQUIPMENT ADDED OR REMOVED. THESE UPDATES CAN BE COMPLETED BY WRITING IN NEAT HANDWRITING ON EXISTING CIRCUIT BREAKER LIST.



PHASE #1 - JUNIOR HIGH CLASSROOMS ELECTRICAL PLAN

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

ELECTRICAL SYMBOL LEGEND

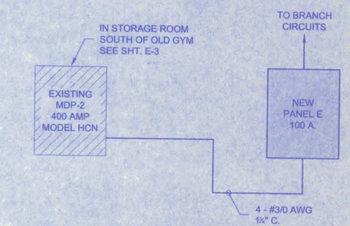
- FLUORESCENT LIGHT FIXTURE
- DUPLEX CONVENIENCE OUTLET
- EXIT FIXTURE
- THERMOSTAT @ +5'-0"
- JUNCTION BOX
- CONNECT TO EQUIPMENT
- INDICATES HOME RUN TO CIRCUITS 1 AND 3
- SINGLE POLE SWITCH
- THREE AND FOUR WAY SWITCHES
- DISCONNECT SWITCH, SIZED TO LOAD

EXISTING PANEL J:

1. CONNECT OUTDOOR RECEPTACLE TO CIRCUIT 23 TO 20 AMP CIRCUIT BREAKER.

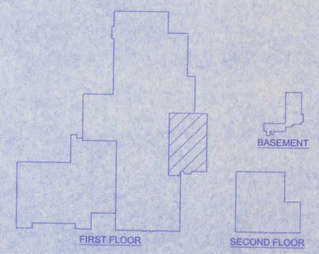
NEW PANEL E:

1. ROUTE 4 - #3 AWG AND PROVIDE NEW 100 A. 3Ø CIRCUIT BREAKER TO EXISTING DISTRIBUTION PANEL (IN STORAGE ROOM SOUTH OF OLD GYM) SEE SHT. E-3.



ONE LINE DIAGRAM - PHASE 1

NO SCALE



NORTH

BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES

Consulting Engineers and Architects

McCook, Nebraska 69001

Hastings, Nebraska 68901

PROFESSIONAL CIVIL ENGINEER GREG A. BOLTE E-13082 STATE OF NEBRASKA

DWG: 648-05E-01

DRAWN: BF

CHECKED:

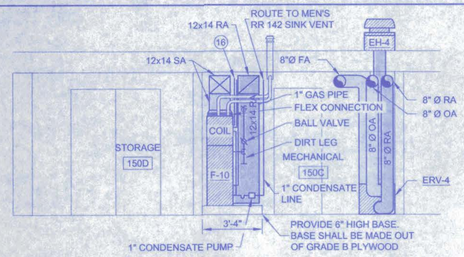
REVISIONS:

E-1

DATE: JAN., 2006

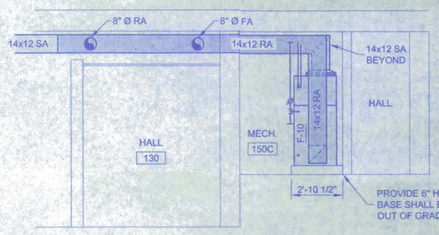
©COPYRIGHT

This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.



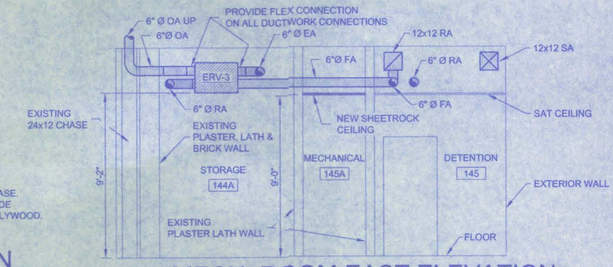
ELEV-8 **STORAGE ROOM EAST ELEVATION**

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



ELEV-9 **STORAGE ROOM NORTH ELEVATION**

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



ELEV-3 **MECH. ROOM EAST ELEVATION**

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

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

NOTE:

SEE MECHANICAL NOTES ON PAGE M-1

LEGEND:

- NEW SUPPLY AIR DIFFUSER
- EXISTING SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- THERMOSTAT, 5'-0" AFF (T)

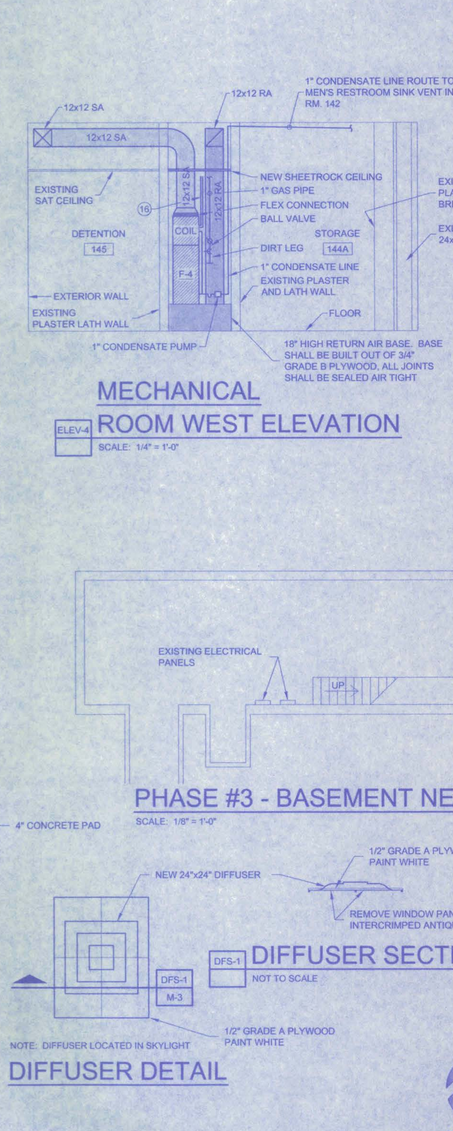
GENERAL NOTES:

1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.
2. COORDINATE SA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.
3. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.
4. ROUTE DUCTWORK AROUND ELECTRICAL PANELS PER N.E.C.
5. IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.



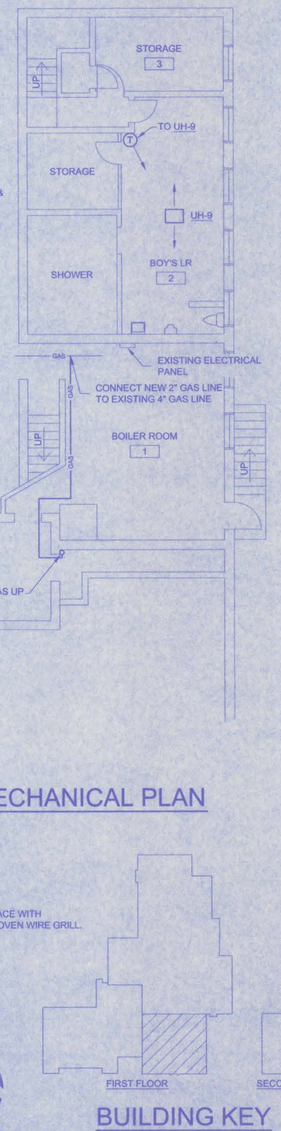
PHASE #3 - FIRST FLOOR NEW MECHANICAL PLAN

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



ELEV-4 **MECHANICAL ROOM WEST ELEVATION**

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



PHASE #3 - BASEMENT NEW MECHANICAL PLAN

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

DFS-1 **DIFFUSER SECTION**

NOT TO SCALE

NOTE: DIFFUSER LOCATED IN SKYLIGHT

DIFFUSER DETAIL

NORTH

BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

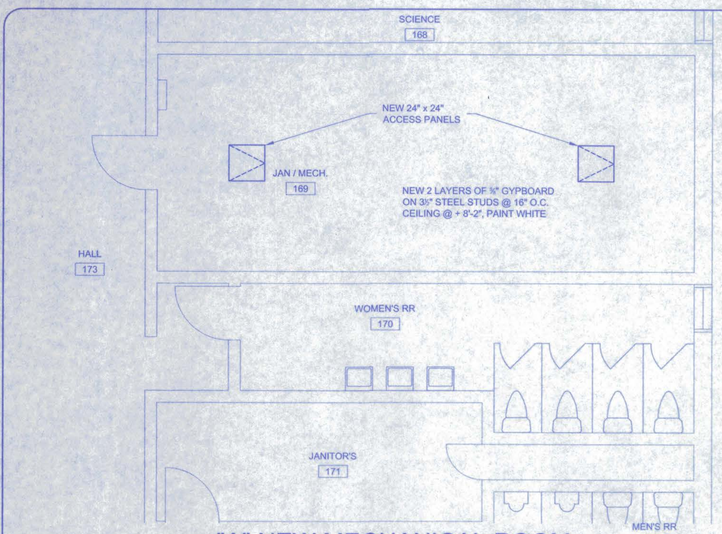
WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

PROFESSIONAL ENGINEER — GREGG A. BAKER — E - 8362 — STATE OF NEBRASKA

DWG: 848-05M-01
DRAWN: BF
CHECKED:
REVISIONS

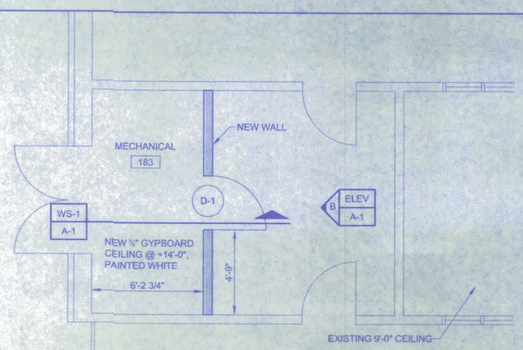
M-3

DATE: JAN., 2006



"A" NEW MECHANICAL ROOM

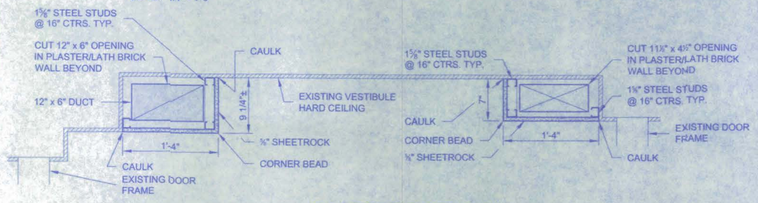
SCALE: 1/4" = 1'-0"



*WALL AND BASE SHALL HAVE LIGHT TEXTURE AND PAINTED WHITE, PROVIDE WITH VINYL BASE ON BOTH SIDES OF WALL. VINYL BASE SHALL MATCH BASE IN SHOP CLASSROOM.

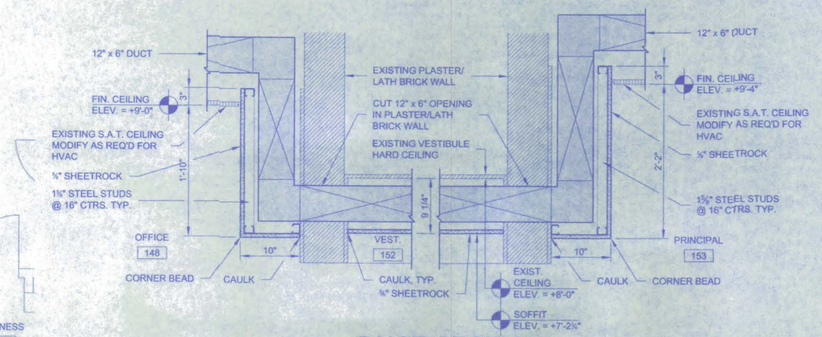
"D" NEW MECHANICAL ROOM

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



DS-1 DUCT SECTION

SCALE: 1" = 1'-0"



DS-2 DUCT SECTION

SCALE: 1" = 1'-0"

D-1 & D-2:

DOOR:
SHALL BE 3'-0" x 7'-0" FLUSH INSULATED HOLLOW METAL DOOR, LABELED 45 MIN. FRAME: HOLLOW METAL. THE DOORS SHALL BE FIRE RATED ASSEMBLY WITH CLOSER. SEE SPECIFICATION SECTION 08110 FOR MORE INFORMATION. ALL DOORS TO BE FURNISHED BY ONE MANUFACTURER.

HARDWARE:

1½ PAIR BUTTS	FBB 179	STANLEY
1 LOCKSET	SK7R15CS3626	STANLEY BEST SYSTEMS
CLOSER	4114-H CUSH	LCN
1 SMOKE GASKET	S88W	PEMKO

SHALL BE KEYED TO MATCH EXISTING KEYING IN BUILDING.

DOOR & FRAME FINISH:
SEE SPECIFICATIONS SECTION 09900

GYPSUM WALL CEILING FINISH:

1. ONE COAT - LATEX PRIMER
2. TWO COATS - LATEX FINISH, SEMI GLOSS

INTERIOR PLASTER SURFACES:

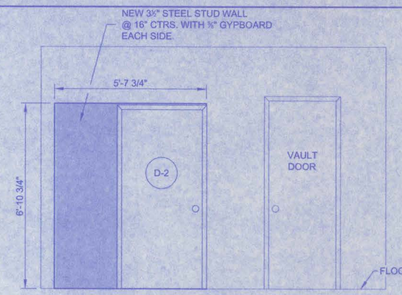
1. ONE COAT - ALKYD WALL PRIMER
2. TWO COATS - CATER WALL PAINT

GENERAL NOTES:

1. CLEAN ALL SURFACES BEFORE THEY ARE TEXTURED AND PAINTED.

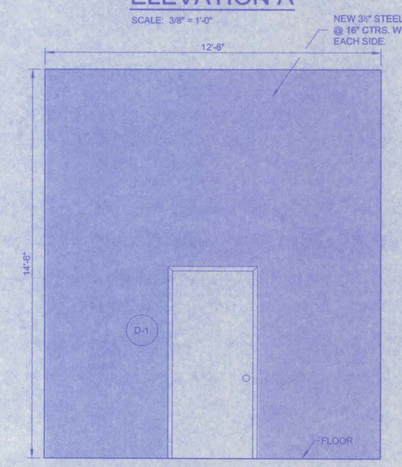
GYP. BOARD CEILING

* ⅝" GYPBOARD
* 3½" STEEL STUDS @ 16" O.C.



ELEVATION A

SCALE: 3/8" = 1'-0"



ELEVATION B

SCALE: 3/8" = 1'-0"

"B" NEW MECHANICAL ROOM

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

"C" NEW MECHANICAL ROOM

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

WS-1 WALL SECTION

SCALE: 3/8" = 1'-0"

BUILDING KEY

NOT TO SCALE

© COPYRIGHT
This document and the information contained may not be reproduced or issued/used from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

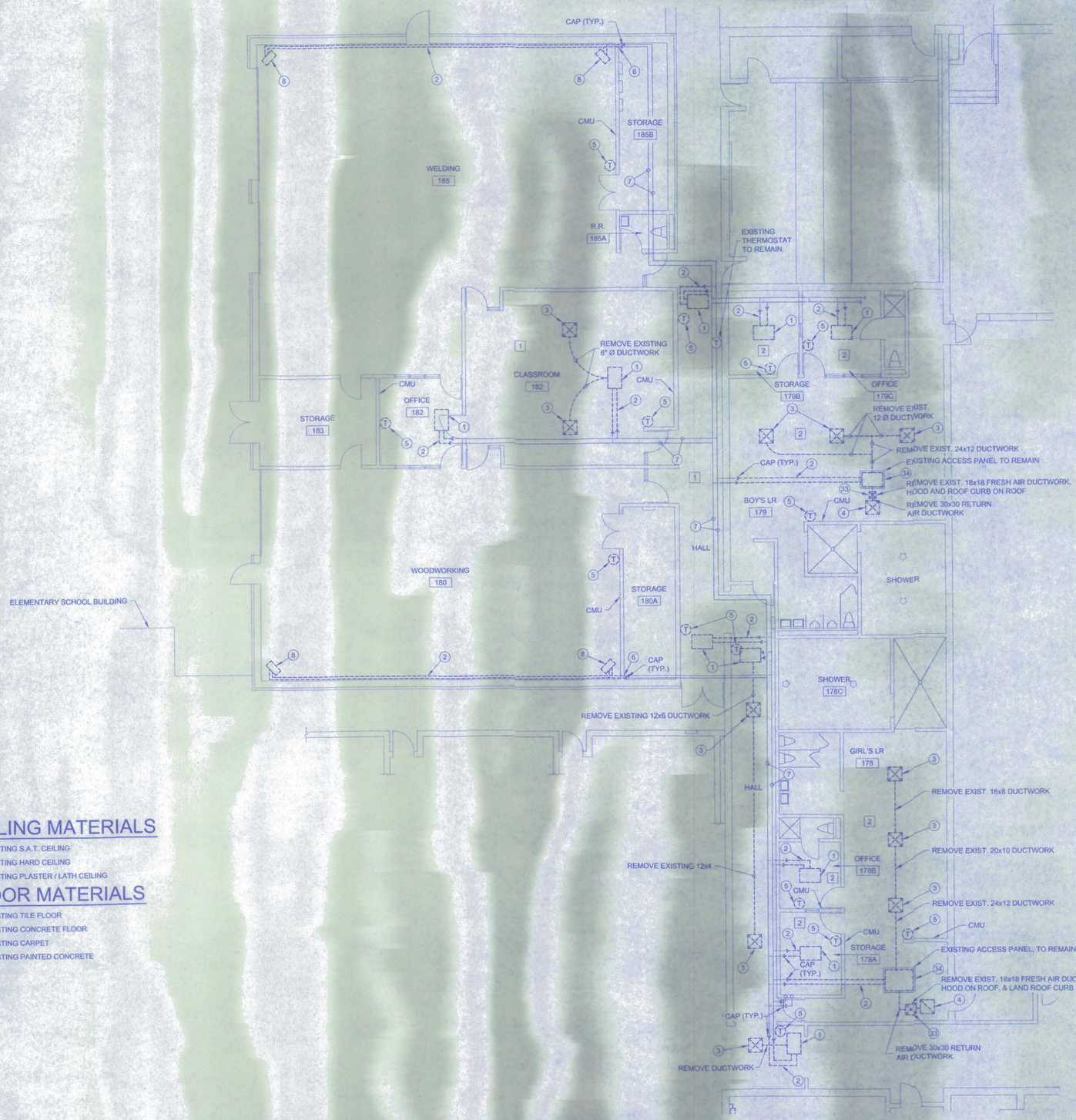
WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

REGISTERED PROFESSIONAL ENGINEER
BRIAN D. FOX
A-1500
STATE OF NEBRASKA

DWG: 848-05A-01
DRAWN: BF
CHECKED:
REVISIONS

A-1

DATE: JAN., 2006



PHASE #2 - LOCKER ROOM/SHOP AREAS DEMOLITION PLAN

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

NOTE:

SEE DEMOLITION NOTES ON PAGE D-1

LEGEND:

- HEATING WATER RETURN ---HWR---
- HEATING WATER SUPPLY ---HWS---
- DEMOLITION LINE
- PIPING CAP
- EXISTING SUPPLY DIFFUSER
- EXISTING RETURN GRILLE

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES HAVE ASBESTOS EMBEDDED WITHIN THEM. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS.

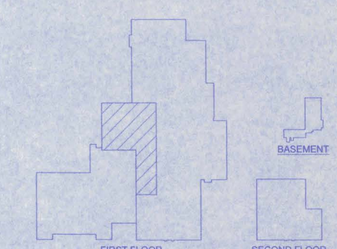
CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

NORTH



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

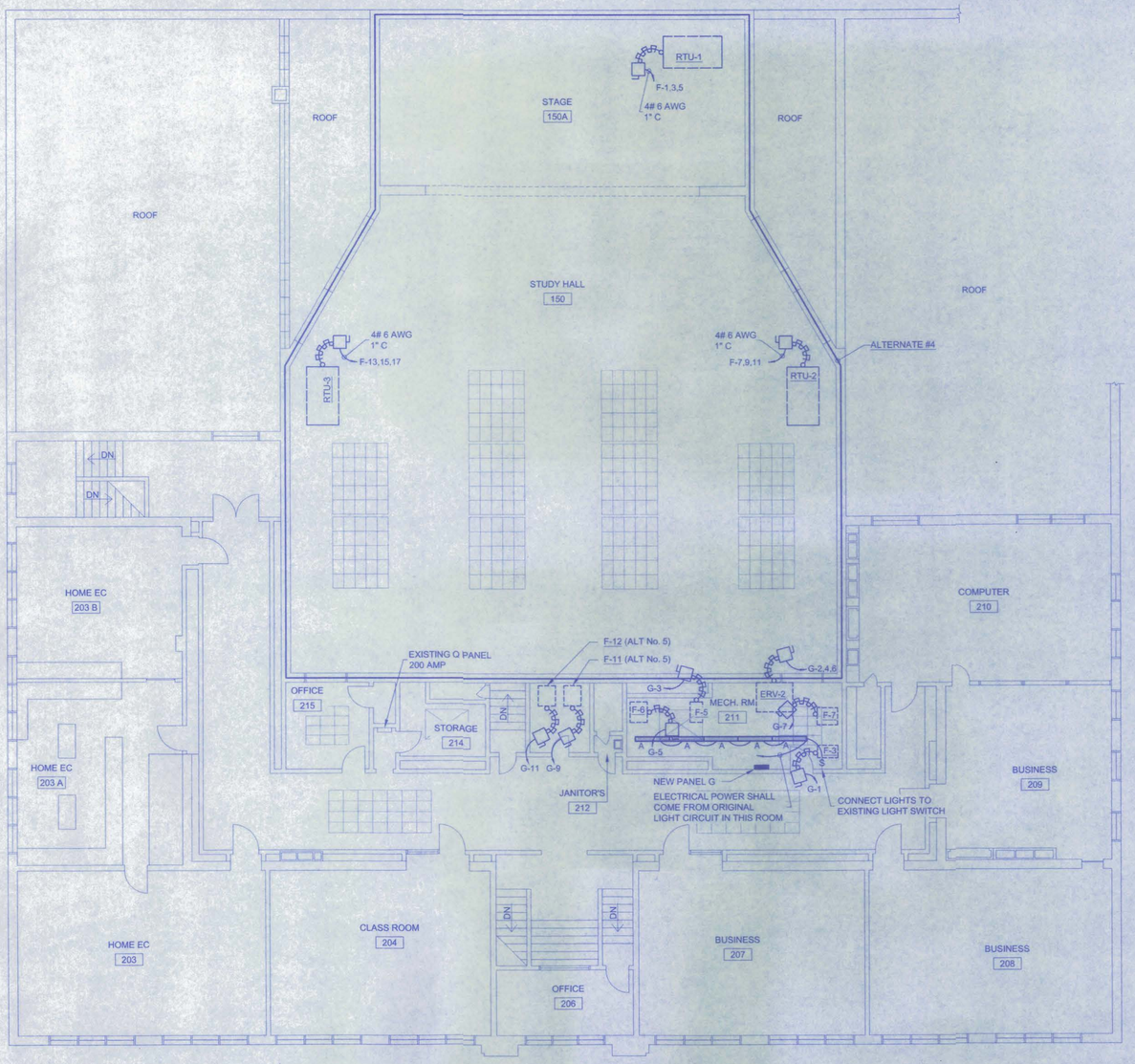
W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

DWG: 848-02D-D1
DRAWN: BF
CHECKED:
REVISIONS

D-2

DATE: JAN., 2006



PHASE #3 - SECOND FLOOR ELECTRICAL PLAN

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

ELECTRICAL SYMBOL LEGEND

- FLUORESCENT LIGHT FIXTURE
- DUPLEX CONVENIENCE OUTLET
- EXIT FIXTURE
- THERMOSTAT @ +5'-0"
- JUNCTION BOX
- CONNECT TO EQUIPMENT
- 1,3 — INDICATES HOME RUN TO CIRCUITS 1 AND 3
- SINGLE POLE SWITCH
- THREE AND FOUR WAY SWITCHES
- DISCONNECT SWITCH, SIZED TO LOAD

LIGHT FIXTURE:

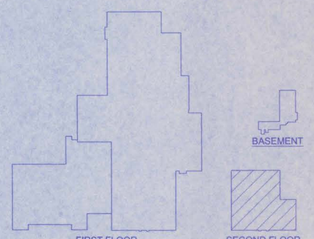
MARK	DESCRIPTION
A	LITHONIA MODEL C 2 32 120 GEB AL. PROVIDE WITH 2-32WT8 BULBS. MOUNT ON SURFACE OF HARD CEILING COORDINATE LOCATIONS WITH THE ACCESS PANELS IN THE CEILING.

PANEL G

Mechanical Room (Phase #3)

SERVICE: 120/208 V 3P 4W
PANEL: 225 AMP. MAIN BREAKER SQUARE D CLASS 1130
TCL: 35,961

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR NO.
1	1440			F-3	20	1						2
3	1080			F-5	20	2	20	ERV-2			1165	4
5	1680			F-6	20	3						6
7	1680			F-7	20	1						8
9	1680			F-11 (ALT. #5)	20	2	35	CU-3			4576	10
11	1680			F-12 (ALT. #5)	20	3						12
13	180			Outdoor Rec.	20	1	55	CU-6			7779	14
15						2						16
17						3	55	CU-7			7779	18
19						1						20
21						2	40	CU-5			5242	22
23						3						24
25						1						26
27						2						28
29						3						30
								TOTAL PANEL LOAD			35961	
								Amps			102	



BUILDING KEY

NOT TO SCALE

NORTH

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

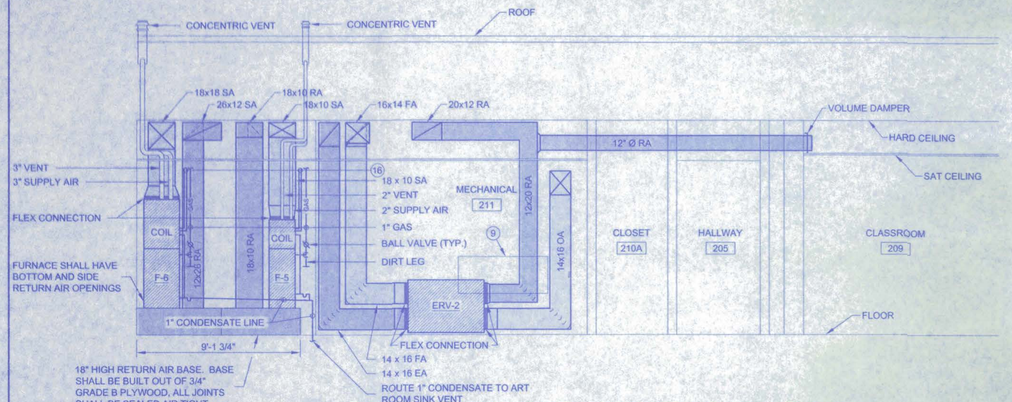
PROFESSIONAL ENGINEER — GREG A. WOLFORD — E-6362 — STATE OF NEBRASKA

DWG: 848-05E-01
DRAWN: BF
CHECKED:
REVISIONS

E-4

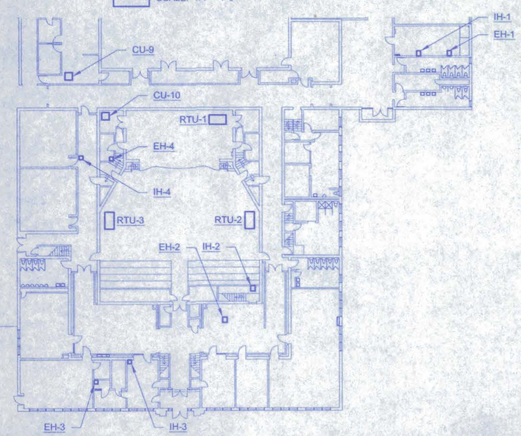
DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.



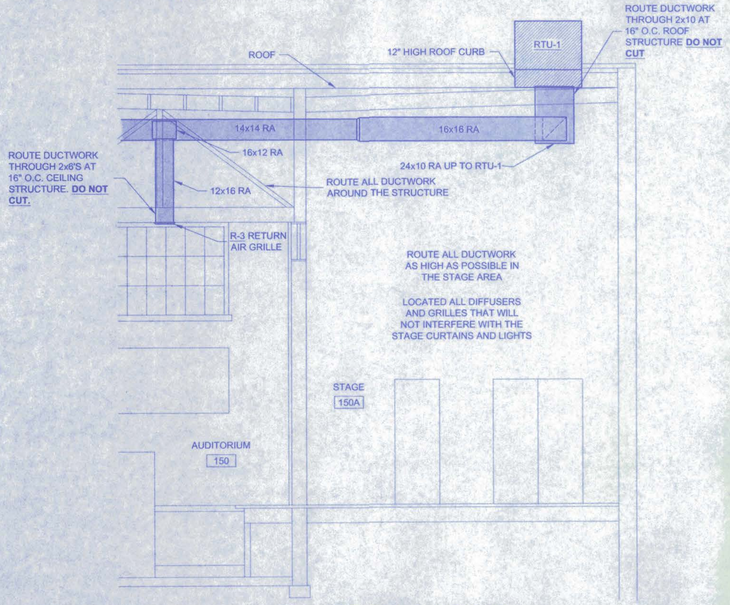
ELEV-5 **MECHANICAL ROOM NORTH ELEVATION**

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



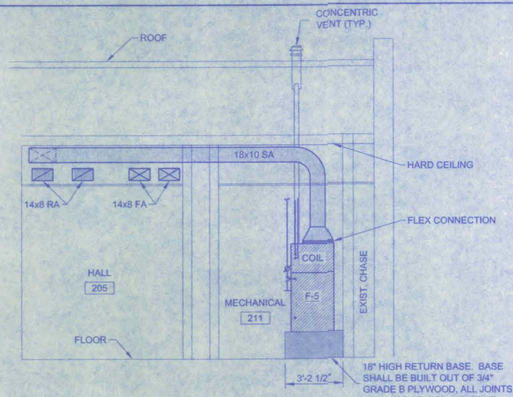
ROOF TOP UNITS AND HOOD LOCATIONS

NO SCALE



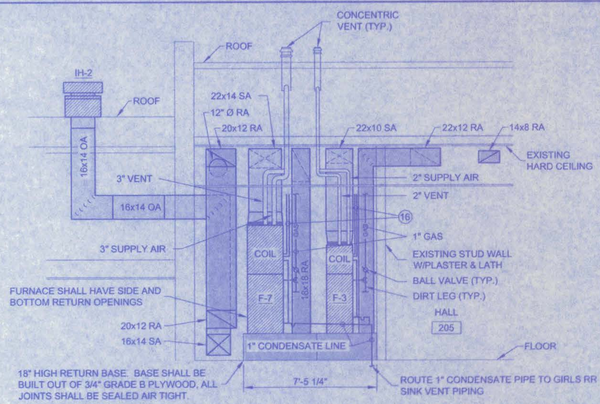
ELEV-8 **STAGE ELEVATION**

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



ELEV-6 **MECHANICAL ROOM WEST ELEVATION**

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



ELEV-7 **MECHANICAL ROOM EAST ELEVATION**

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

FURNACE SCHEDULE

MARK	DESCRIPTION
F-1	YORK MODEL GY9 120 D, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. UNIT SHALL PROVIDE 1920 CFM @ 0.5" ESP @ MED-HIGH FAN SETTING. 120 MBH INPUT, 112 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA060S24 EVAPORATOR COIL AND WALL CONCENTRIC VENT TERMINATION. BOTTOM AND SIDE RETURN OPENINGS. 120V / 1Ø / 14A. THE UNIT TO HAVE BOTH SIDE AND BOTTOM RETURN AIR OPENING. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-2	SAME AS F-1
F-3	YORK MODEL GY9S080C, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. UNIT SHALL PROVIDE 1300 CFM @ 0.6" ESP @ MED-HIGH FAN SETTING. 80 MBH INPUT, 74 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA036S21 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. SIDE RETURN AIR OPENING. 120V / 1Ø / 12A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-4	YORK MODEL GY9S080B, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. UNIT SHALL PROVIDE 890 CFM @ 0.5" ESP @ MED-LOW FAN SETTING. 80 MBH INPUT, 74 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA024S17 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. SIDE RETURN OPENING. 120V / 1Ø / 9A. PRVOIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-5	YORK MODEL GY9S080C, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. UNIT SHALL PROVIDE 1,200 CFM @ 0.66 ESP @ MED-LOW FAN SETTING. 80 MBH INPUT, 76 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA024S17 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. BOTTOM RETURN OPENING. 120V / 1Ø / 9A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-6	SAME AS F-1
F-7	SAME AS F-1
F-8	YORK MODEL GY9S060B, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. THE UNIT SHALL PROVIDE 800 CFM @ 0.75 ESP @ MED-LOW FAN SETTING. 60 MBH INPUT, 55 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA024S17 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. 120V / 1Ø / 9.0A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-9	YORK MODEL GY9S060B, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. THE UNIT SHALL PROVIDE 1000 CFM @ 0.55 ESP @ MED-HIGH FAN SETTING. 60 MBH INPUT, 55 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA024S17 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. 120V / 1Ø / 9A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-10	YORK MODEL GY9S060B, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. THE UNIT SHALL PROVIDE 1040 CFM @ 0.50 ESP @ MED-HIGH FAN SETTING. 60 MBH INPUT, 55 MBH OUTPUT, 90% AFUE. PROVIDE WITH G1FA036S17 EVAPORATOR COIL AND 2" ROOF CONCENTRIC VENT TERMINATION. 120V / 1Ø / 9A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-11	(ALT. No. 5) YORK MODEL GY9S120D, HIGH EFFICIENCY, UPFLOW, GAS-FIRED CONDENSING FURNACE. THE UNIT SHALL PROVIDE 1,900 CFM @ 0.5 S.P. @ MED-HIGH FAN SETTING. 120 MBH INPUT, 112 MBH OUTPUT, 90% AFUE. 3" ROOF CONCENTRIC VENT TERMINATION. 120V / 1Ø / 14A. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND VERSEGUARD UNIVERSAL THERMOSTAT GUARD-CLEAR. (1)
F-12	(ALT. No. 5) SAME AS F-11

(1) PROVIDE FILTER RACKS ON ALL RETURN AIR OPENINGS.

HOODS SCHEDULE

MARK	DESCRIPTION
IH-1	ACME MODEL IV14x16 INTAKE HOOD, 1335 CFM. PROVIDE WITH 14" ROOF CURB.
IH-2	SAME AS IH-1
IH-3	PENNBERRY MODEL WCC 06 INTAKE HOOD, 90 CFM. PROVIDE WITH 12" ROOF CURB.
IH-4	PENNBERRY MODEL WCC 12 INTAKE HOOD, 300 CFM. PROVIDE WITH 12" ROOF CURB.
EH-1	ACME MODEL EV14x16 EXHAUST HOOD, 1335 CFM. PROVIDE WITH 14" ROOF CURB.
EH-2	SAME AS EH-1
EH-3	SAME AS IH-3
EH-4	SAME AS IH-4

HEATER SCHEDULE

MARK	DESCRIPTION
UH-1	REZNOR MODEL UDAS 30 UNIT HEATER, 30,000 BTUH INPUT, 24,600 BTUH OUTPUT, 120V. 1Ø. 1.9 FLA. PROVIDE WITH COMBUSTION AIR / VENT KIT INCLUDING CONCENTRIC ADAPTER, REMOTE THERMOSTAT, THERMOSTAT GUARD WITH LOCKING COVER, AND MASTER / SLAVE CONTROLS.
UH-2	SAME AS UH-1, EXCEPT WITHOUT MASTER/SLAVE CONTROLS.
UH-3	SAME AS UH-1.
UH-4	SAME AS UH-1, EXCEPT WITHOUT MASTER/SLAVE CONTROLS.
UH-5	BERKO MODEL GFH1500 FAN-FORCED WALL HEATER 750 WATTS. 120V. 1Ø, 6.3A. PROVIDE WITH SINGLE POLE BUILT-IN THERMOSTAT AND SURFACE MOUNTING FRAME.
UH-6	SAME AS UH-5
UH-7	BERKO MODEL FFCH548 DOWNFLOW CEILING MOUNTED HEATER 3000 WATTS, 208V. 3Ø, 8.2 AMPS. PROVIDE WITH THERMOSTAT, DISCONNECT SWITCH AND TRIM RING. THERMOSTAT SHALL BE ABLE TO CONTROL UH-7 AND UH-8.
UH-8	SAME AS UH-7, EXCEPT WITHOUT THERMOSTAT.
UH-9	BERKO MODEL FFCH548 DOWNFLOW CEILING MOUNTED HEATER 3000 WATTS, 208V. 3Ø, 8.2 AMPS. PROVIDE WITH THERMOSTAT, DISCONNECT SWITCH AND TRIM RING. PROVIDE WITH THERMOSTAT SPST.
GUH-1 (ALT #4)	BERKO MODEL CUH968 CABINET UNIT HEATER, 21kW, 71,673 Btuh, 208V. 3Ø, 60 AMPS, NAVAJO WHITE. RECESSED, FRONT INLET AND OUTLET. PROVIDE WITH BUILT-IN THERMOSTAT, SUMMER FAN SWITCH, AND DISCONNECT SWITCH.
GUH-2 (ALT #4)	SAME AS CUH-1
GUH-3 (ALT #4)	SAME AS CUH-1

ERV UNIT SCHEDULE

MARK	DESCRIPTION
ERV-1	RENEWAIRE MODEL HE2XINH ENERGY RECOVERY VENTILATOR UNIT. AIRFLOW 1335 CFM, 0.5 ESP,(2) BD 1.5 HP MOTORS, 1,230 RPM 2 TURNS OPEN, 208V. 3Ø, 5.8 FLA, 12.6 MCA. INTERCONNECT TO TO F-1 THERMOSTAT.
ERV-2	SAME AS ERV-1, EXCEPT INTERCONNECT TO F-7 THERMOSTAT
ERV-3	RENEWAIRE MODEL EV130 ENERGY RECOVERY VENTILATOR UNIT. AIRFLOW 90 CFM, 0.5 ESP, 120V, 1 Ø, 1.2 FLA, INTERCONNECT TO F-4 THERMOSTAT.
ERV-4	RENEWAIRE MODEL EV300 ENERGY RECOVERY VENTILATOR UNIT. AIRFLOW 300 CFM, 0.4 ESP, 120V, 1Ø, 3.3 FLA. INTERCONNECT WITH F-10 THERMOSTAT
ERV-5	SAME AS ERV-4 EXCEPT INTERCONNECT WITH F-8, AND PROVIDE WITH MODEL VS12x8 WALL CAPS FOR EXHAUST AND OUTSIDE CONNECTIONS.

ERV NOTES:
1. SET THERMOSTATS TO RUN ERV's DURING OCCUPIED TIME OF THE DAY.
2. FURNACE FAN SHALL RUN WHEN ERV'S ARE RUNNING.

CONDENSING UNIT SCHEDULE

MARK	DESCRIPTION
CU-1	YORK MODEL H4DH060 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 60.0 MBH TOTAL COOLING AND 45.0 MBH SENSIBLE COOLING AT AIR STD 210 CONDITIONS. 208V / 1Ø. 37.4 MCA.
CU-2	SAME AS CU-1
CU-3	YORK MODEL H4DH036 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 35.2 MBH TOTAL COOLING AND 26.0 MBH SENSIBLE COOLING AT AIR STD 210 CONDITIONS. 208V / 1Ø, 22.0 MCA.
CU-4	YORK MODEL H4DH024 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 23.4 MBH TOTAL COOLING AND 17.6 MBH SENSIBLE COOLING AT AIR STD 210 CONDITIONS. 208V / 1Ø, 12.1 MCA.
CU-5	YORK MODEL H4DH040 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 41.5 MBH TOTAL COOLING AND 31.1 MBH SENSIBLE COOLING AT AIR STD 210 CONDITIONS. 208V / 1Ø, 25.2.A.
CU-6	SAME AS CU-1
CU-7	SAME AS CU-1
CU-8	YORK MODEL H4DH024 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 23.4 MBH TOTAL COOLING AND 17.6 MBH SENSIBLE COOLING AT ARI STD 210 CONDITIONS. 208V /1Ø/ 12.1 AMPS.
CU-9	YORK MODEL H4DH024 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 23.4 MBH TOTAL COOLING AND 17.6 MBH SENSIBLE COOLING AT ARI STD 210 CONDITIONS. 208V /1Ø/ 12.1 AMPS.
CU-10	YORK MODEL H4DH036 CONDENSING UNIT. 12.00 SEER. UNIT SHALL PROVIDE 35.2 MBH TOTAL COOLING AND 26.0 MBH SENSIBLE COOLING AT ARI STD 210 CONDITIONS. 208V /1Ø/ 12.1 AMPS.

DIFFUSERS, REGISTERS & GRILLES

MARK	DESCRIPTION
CD-1	KRUEGER MODEL 51400 ALUMINUM DIFFUSER. PROVIDE WITH PRD100 RADIAL SLIDING BLADE DAMPER, WHITE IN COLOR, AND 24" x 24" FACE SIZE. SEE PLANS FOR NECK SIZE.
CD-2	LIMA MODEL 804 STEEL DIFFUSER. PROVIDE WITH RADIAL DAMPER. WHITE IN COLOR. 24" x 24" FACE SIZE. SEE PLANS FOR NECK SIZE.
CD-3	LIMA SERIES 95 SM, PATTERN NO. 311 CPRE. SURFACE MOUNT FRAME DIRECTIONAL DIFFUSER. WHITE IN COLOR. SIZE 12"x24", THREE WAY PATTERN.
WD-1	LIMA MODEL 90 H ALUMINUM 22" SINGLE DEFLECTION AIRFOIL REGISTER. WHITE IN COLOR. PROVIDE WITH OPPOSED BLADE DAMPER. SEE PLANS FOR SIZE.
R-1	LIMA MODEL 83__ STEEL RETURN WITH PLENUM AND INST. RING. WHITE IN COLOR. 24" x 24" FACE SIZE. SEE PLANS FOR NECK SIZE.
R-2	LIMA MODEL 83 STEEL RETURN FACE ONLY, 24" x 24" FACE SIZE. WHITE IN COLOR.
R-3	SAME AS CD-3 EXCEPT SIZE 12"x24". 24" NEED TO BE EAST WEST DIRECTION
WR-1	LIMA MODEL 90 H ALUMINUM 0° SINGLE DEFLECTION AIRFOIL REGISTER. WHITE IN COLOR. SEE PLANS FOR SIZE.

NOTES:
1. CONTRACTOR SHALL TAKE PRECAUTIONS NOT TO SCRATCH DIFFUSERS, REGISTERS AND GRILLES DURING INSTALLATION. IF THE DIFFUSERS, REGISTERS OR GRILLES ARE SCRATCHED FROM SHIPPING THEY WILL NOT BE ALLOWED TO BE INSTALLED. IF THEY ARE SCRATCHED DURING INSTALLATION THEY WILL BE REPLACED AT THE CONTRACTORS EXPENSE WITH NEW NON-SCRATCHED DIFFUSER, REGISTER OR GRILLE.

ROOFTOP UNIT SCHEDULE

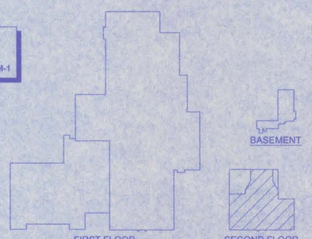
MARK	DESCRIPTION
RTU-1	YORK MODEL DF080 MID. EFFICIENCY BELT-DRIVE ROOFTOP UNIT WITH NATURAL GAS, BOTTOM DISCHARGE, ECONOMIZER, MOTORIZED OUTDOOR AIR INTAKE DAMPER, DISCONNECT, POWERED CONVENIENCE OUTLET, SMOKE DETECTOR IN SUPPLY AND RETURN AIR, HAIL GUARD, AND 14" ROOF CURB. COOLING - 11.0 SEER, 53.8 MBH TOTAL CAPACITY, 38.2 MBH SENSIBLE CAPACITY AT 80°F/67°F/105°F. HEATING - 100 MBH INPUT, 79 MBH OUTPUT, 80% AFUE. 1600 CFM AT 0.5 SP, 208V, 3Ø, 60 Hz., 42.0 MCA. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND UNIVERSAL VERSAGUARD.
RTU-2	YORK MODEL DF060 MID. EFFICIENCY BELT-DRIVE ROOFTOP UNIT WITH NATURAL GAS, BOTTOM DISCHARGE, ECONOMIZER, MOTORIZED OUTDOOR AIR INTAKE DAMPER, DISCONNECT, POWERED CONVENIENCE OUTLET, SMOKE DETECTOR IN SUPPLY AND RETURN AIR, HAIL GUARD, AND 14" ROOF CURB. COOLING - 11.0 SEER, 58.0 MBH TOTAL CAPACITY, 44.0 MBH SENSIBLE CAPACITY AT 80°F/67°F/105°F. HEATING - 100 MBH INPUT, 79 MBH OUTPUT, 80% AFUE. 1950 CFM AT 0.5 SP, 208V, 3Ø, 60 Hz., 42.0 MCA. INTERCONNECT TO RTU-1 THERMOSTAT. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL TB8220 AND UNIVERSAL VERSAGUARD.
RTU-3	SAME AS RTU-2.

GENERAL NOTES:

1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.
2. COORDINATE SA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.
3. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.
4. ROUTE DUCTWORK AROUND ELECTRICAL PANELS PER N.E.C.
5. IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.

NOTE:

SEE MECHANICAL NOTES ON PAGE M-1



NORTH

BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

GREG A. WOLFORD — REGISTERED PROFESSIONAL ENGINEER — STATE OF NEBRASKA

DWG: 845-09M-01
DRAWN: BF
CHECKED:
REVISIONS

M-5

DATE: JAN., 2006

GENERAL NOTES:

COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.

COORDINATE SA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.

SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.

ROUTE DUCTWORK AROUND ELECTRICAL PANELS PER N.E.C.

IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

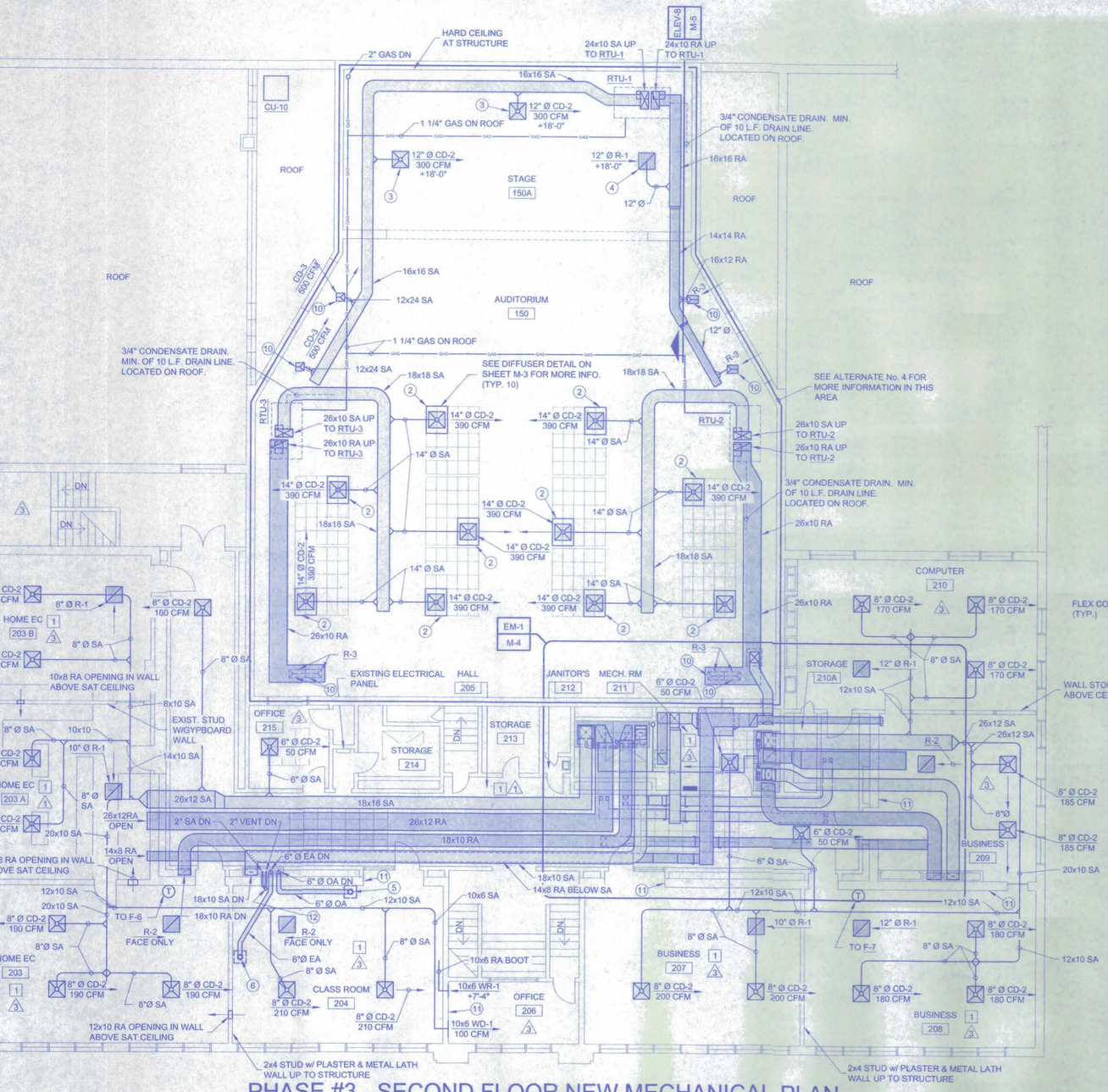
1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

LEGEND:

- NEW SUPPLY AIR DIFFUSER
- EXISTING SUPPLY DIFFUSER
- NEW RETURN AIR GRILLE
- THERMOSTAT, 5'-0" AFF (T)

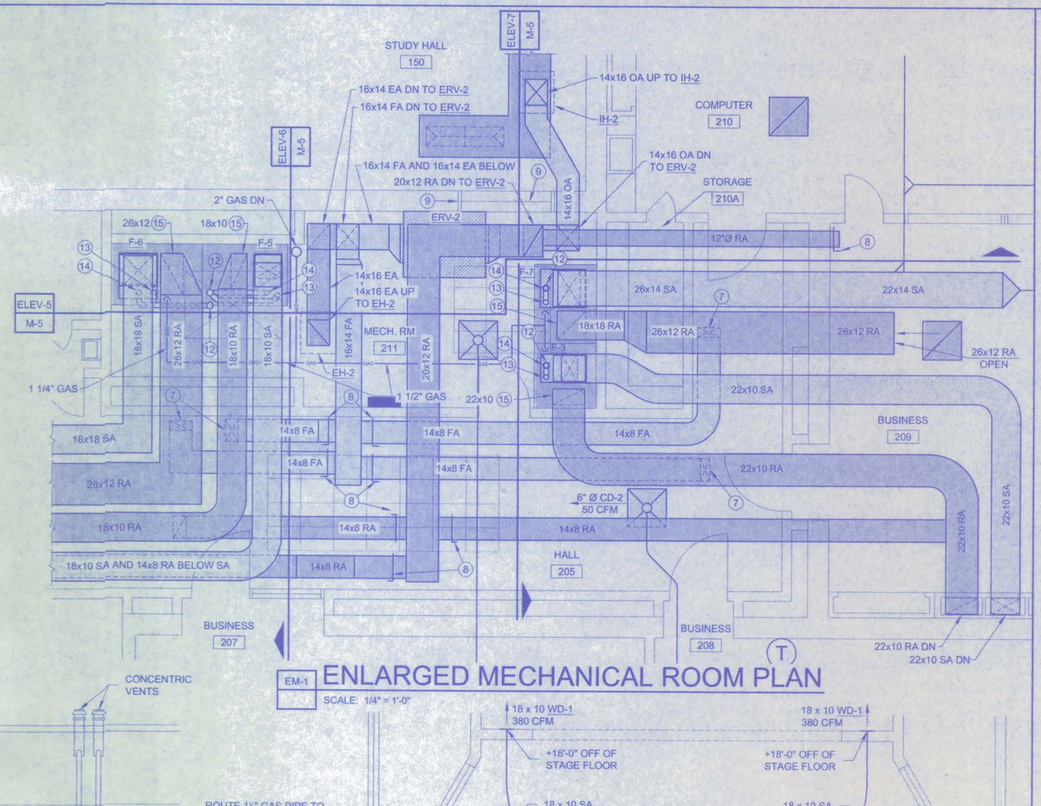
NOTE:

SEE MECHANICAL NOTES ON PAGE M-1



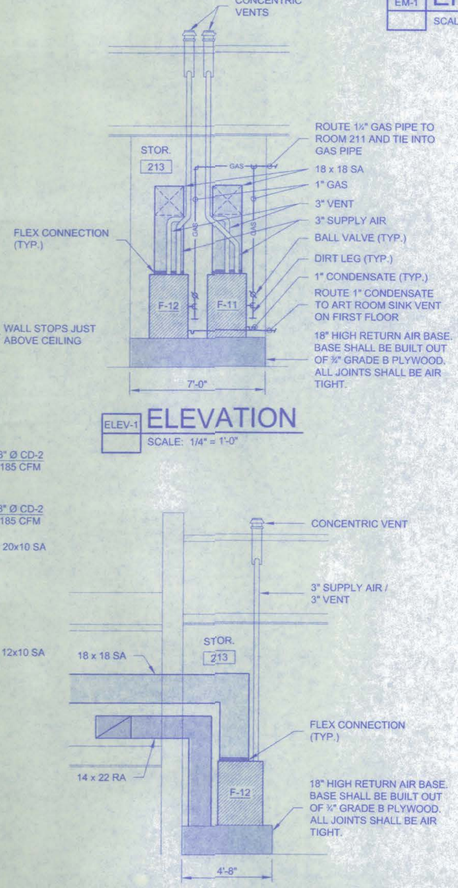
PHASE #3 - SECOND FLOOR NEW MECHANICAL PLAN

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



ENLARGED MECHANICAL ROOM PLAN

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

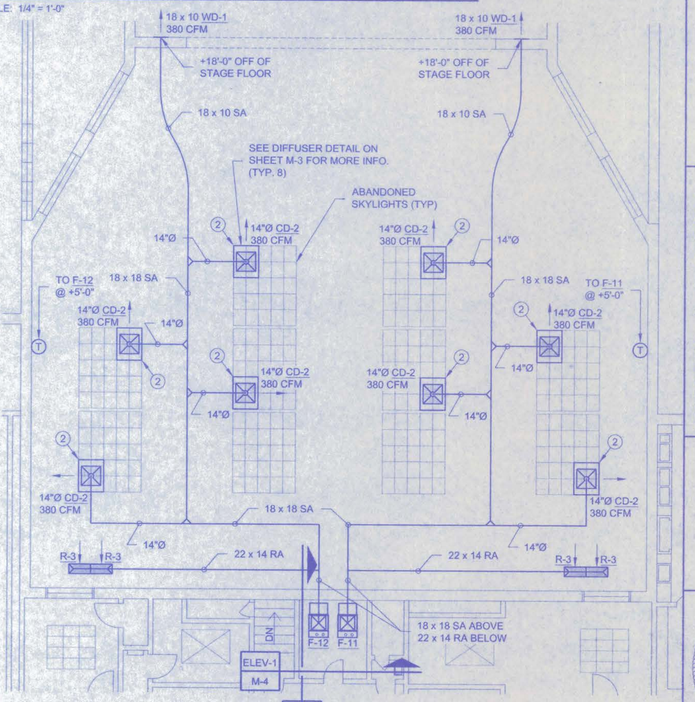


ELEV-1 ELEVATION

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

ELEV-2 ELEVATION

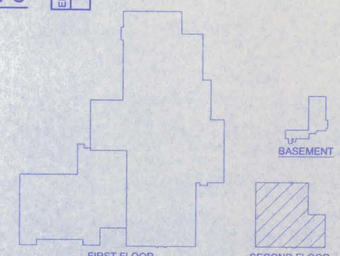
SCALE: 1/4" = 1'-0"



ALTERNATE No. 5

ELEV-2 M-4

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



BUILDING KEY

NOT TO SCALE

NORTH

© COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

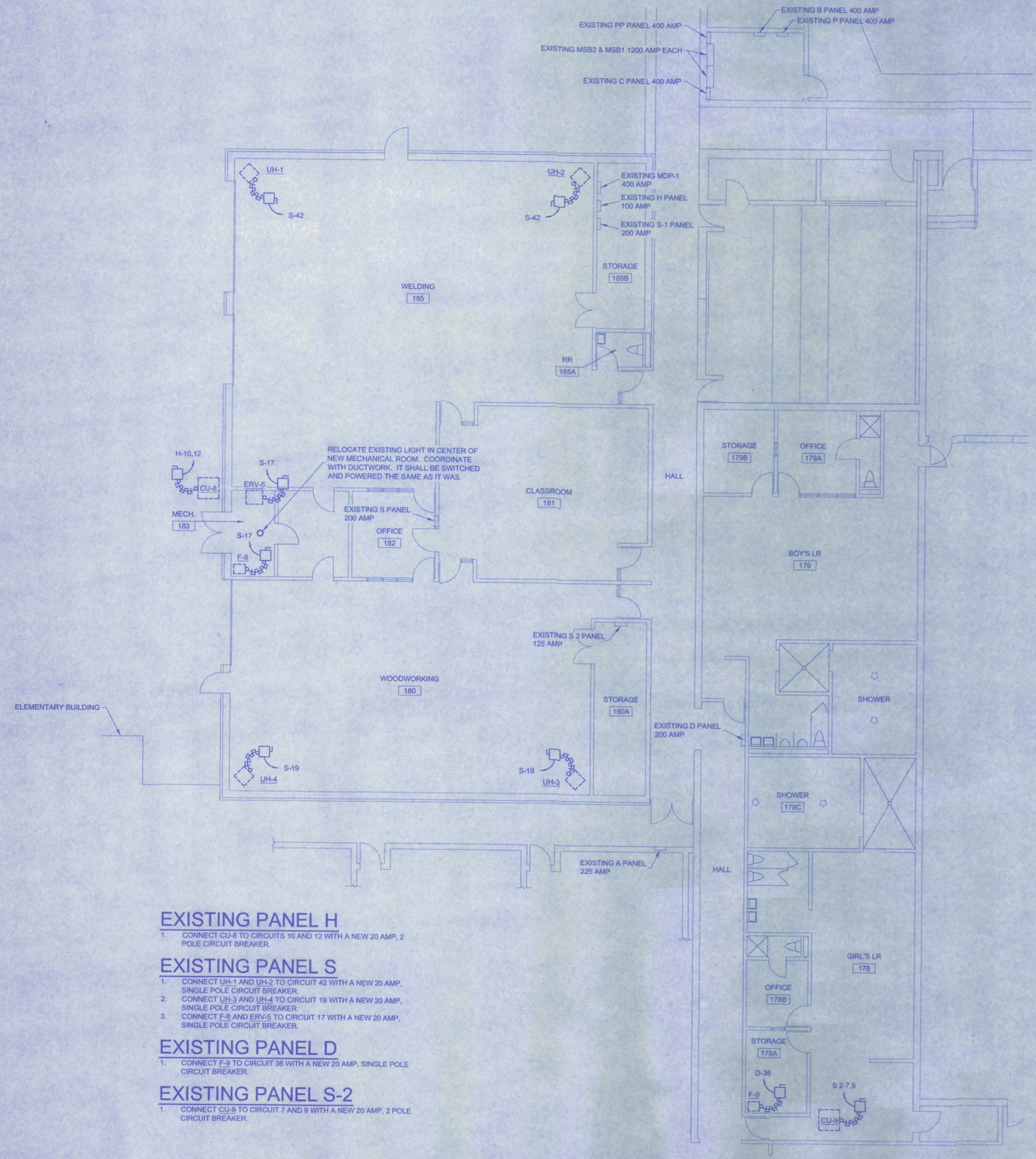
W DESIGN ASSOCIATES
WDA
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

GREG A. WOLFORD E 10362 STATE OF NEBRASKA PROFESSIONAL CIVIL ENGINEER

DWG: 848-05M-01
DRAWN: BF
CHECKED:
REVISIONS

M-4

DATE: JAN., 2006



EXISTING PANEL H

1. CONNECT CU-8 TO CIRCUITS 10 AND 12 WITH A NEW 20 AMP, 2 POLE CIRCUIT BREAKER.

EXISTING PANEL S

1. CONNECT UH-1 AND UH-2 TO CIRCUIT 42 WITH A NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER.
2. CONNECT UH-3 AND UH-4 TO CIRCUIT 19 WITH A NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER.
3. CONNECT F-8 AND ERV-5 TO CIRCUIT 17 WITH A NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER.

EXISTING PANEL D

1. CONNECT F-9 TO CIRCUIT 36 WITH A NEW 20 AMP, SINGLE POLE CIRCUIT BREAKER.

EXISTING PANEL S-2

1. CONNECT CU-9 TO CIRCUIT 7 AND 9 WITH A NEW 20 AMP, 2 POLE CIRCUIT BREAKER.

PHASE #2 - LOCKER ROOM/SHOP AREAS ELECTRICAL PLAN

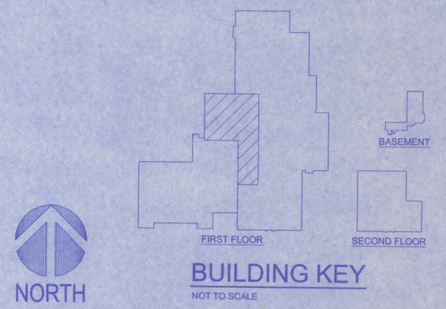
SCALE: 1/8" = 1'-0"

ELECTRICAL SYMBOL LEGEND

- FLUORESCENT LIGHT FIXTURE
- DUPLEX CONVENIENCE OUTLET
- EXIT FIXTURE
- THERMOSTAT @ +5'-0"
- JUNCTION BOX
- CONNECT TO EQUIPMENT
- INDICATES HOME RUN TO CIRCUITS 1 AND 3
- SINGLE POLE SWITCH
- THREE AND FOUR WAY SWITCHES
- DISCONNECT SWITCH, SIZED TO LOAD

GENERAL NOTES:

1. PROVIDE UPDATED CIRCUIT BREAKER LISTINGS IN EXISTING PANELS THAT HAVE EQUIPMENT ADDED OR REMOVED. THESE UPDATES CAN BE COMPLETED BY WRITING NEATLY ON THE EXISTING CIRCUIT BREAKER LIST.



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

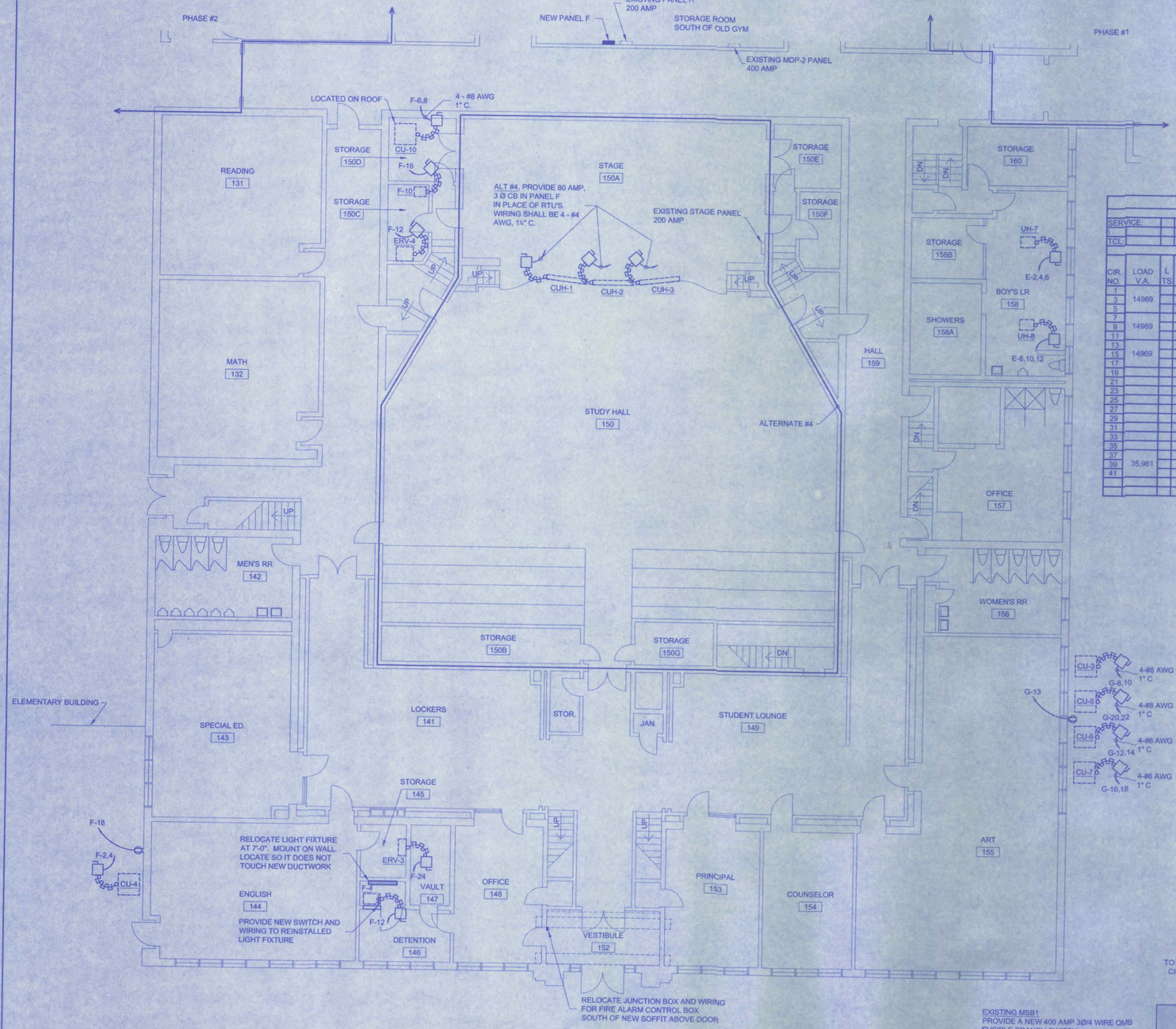
WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-05E-01
DRAWN: BF
CHECKED:
REVISIONS

E-2

DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.



PHASE #3 - FIRST FLOOR ELECTRICAL PLAN

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

ELECTRICAL SYMBOL LEGEND

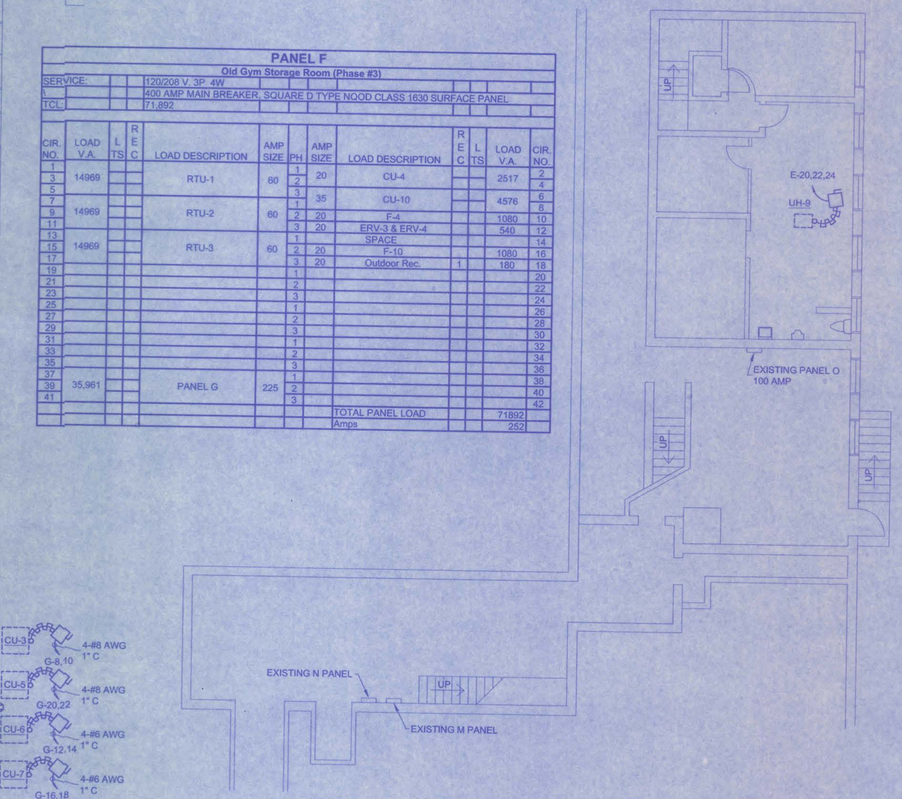
- FLUORESCENT LIGHT FIXTURE
- DUPLEX CONVENIENCE OUTLET
- EXIT FIXTURE
- THERMOSTAT @ +5'-0"
- JUNCTION BOX
- CONNECT TO EQUIPMENT
- 1,3 INDICATES HOME RUN TO CIRCUITS 1 AND 3
- SINGLE POLE SWITCH
- THREE AND FOUR WAY SWITCHES
- DISCONNECT SWITCH, SIZED TO LOAD

PANEL F

Old Gym Storage Room (Phase #3)

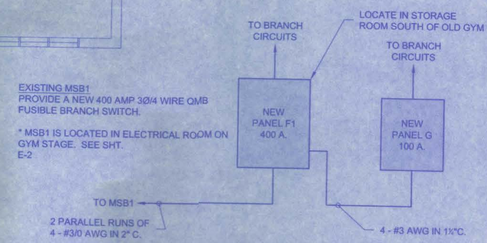
SERVICE: 120/208 V. 3P 4W
400 AMP MAIN BREAKER, SQUARE D TYPE NQOD CLASS 1630 SURFACE PANEL
TCL: 71,892

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS.	LOAD V.A.	CIR. NO.
1						1	20	CU-4			2517	2
3	14969			RTU-1	60	2						4
5						3	35	CU-10			4576	6
7	14969			RTU-2	60	1						8
9						2	20	F-4			1080	10
11						3	20	ERV-3 & ERV-4			540	12
13	14969			RTU-3	60	1		SPACE				14
15						2	20	F-10			1080	16
17						3	20	Outdoor Rec.	1		180	18
19						1						20
21						2						22
23						3						24
25						1						26
27						2						28
29						3						30
31						1						32
33						2						34
35						3						36
37	35,961			PANEL G	225	1						38
39						2						40
41						3						42
								TOTAL PANEL LOAD			71892	
								Amps			252	



PHASE #3 - BASEMENT ELECTRICAL PLAN

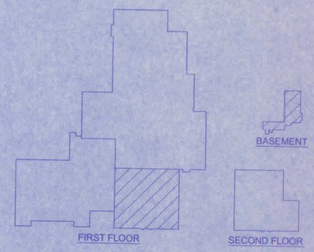
SCALE: 1/8" = 1'-0"



ONE LINE DIAGRAM - PHASE 3

NO SCALE

NORTH



BUILDING KEY

NOT TO SCALE

NEW HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

PROFESSIONAL ENGINEER
JAMES A. FOLEY
E-6962
STATE OF NEBRASKA

DWG: 848-05E-01
DRAWN: BF
CHECKED:
REVISIONS

E-3

DATE: JAN., 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

CAMBRIDGE PUBLIC SCHOOLS

NEW HVAC PROJECT PHASES III & IV

CAMBRIDGE, NEBRASKA

SHEET INDEX

D-1 PHASE III - HIGH SCHOOL FIRST FLOOR & BASEMENT DEMOLITION PLAN

D-2 PHASE III - HIGH SCHOOL SECOND FLOOR DEMOLITION PLAN

D-3 PHASE IV - ELEMENTARY DEMOLITION PLAN

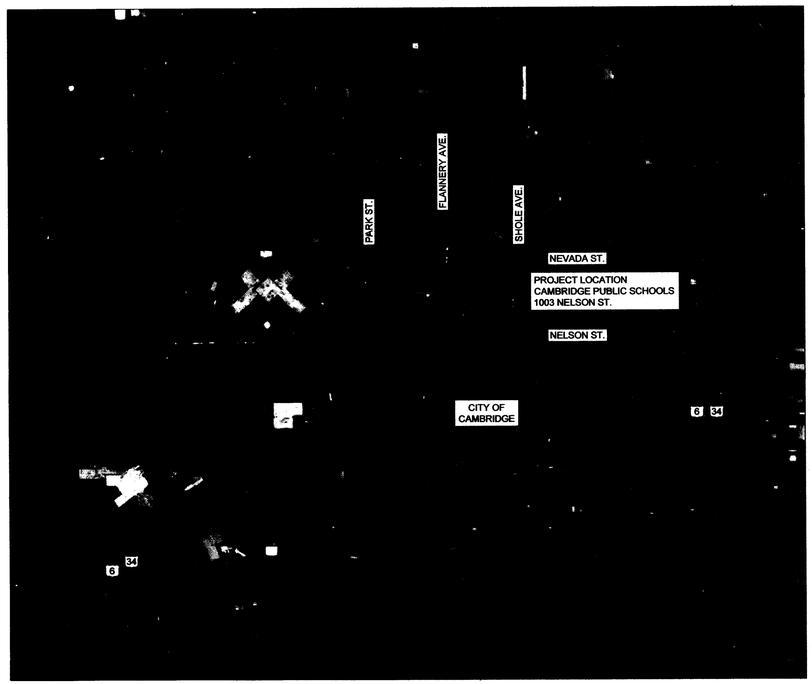
ME-1 PHASE III - HIGH SCHOOL FIRST FLOOR & BASEMENT MECHANICAL / ELECTRICAL PLAN

ME-2 PHASE III - HIGH SCHOOL SECOND FLOOR MECHANICAL / ELECTRICAL PLAN

ME-3 PHASE IV - ELEMENTARY MECHANICAL / ELECTRICAL PLAN

ME-4 MECHANICAL SCHEDULES AND DETAILS

ME-5 ELECTRICAL PANELS AND ONE-LINE DIAGRAM

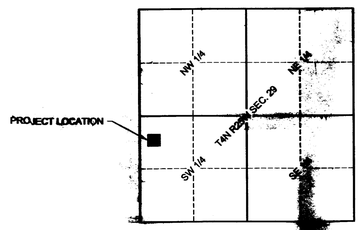


LOCATION MAP
NO SCALE

NORTH

EXPLANATION OF PHASING

PHASE III - HIGH SCHOOL HVAC REPLACEMENT.
PHASE IV - ELEMENTARY HVAC REPLACEMENT.



LOCATION MAP
NO SCALE

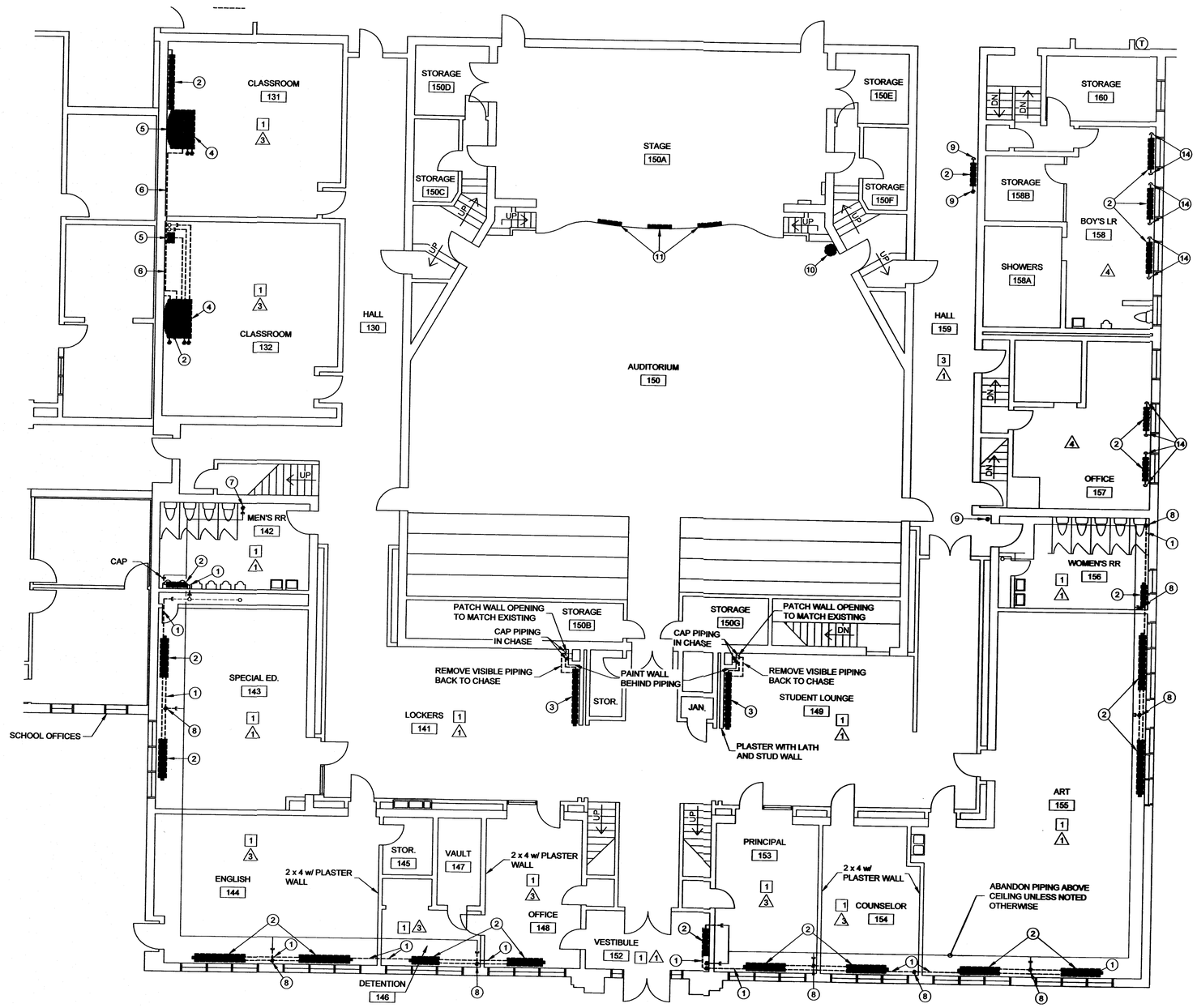
PHASE III & IV HVAC PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06COVER
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

DATE: DECEMBER, 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

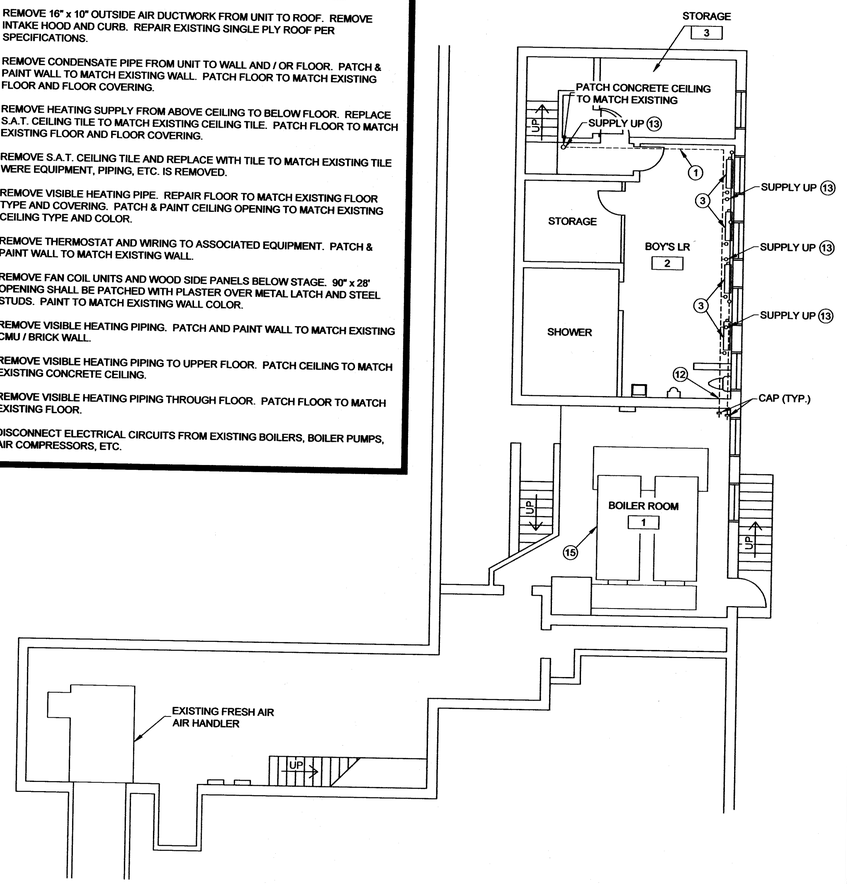


FLAG NOTES:

1. REMOVE ALL VISIBLE HEATING PIPING. PATCH AND PAINT WALL OPENINGS TO MATCH EXISTING WALL. REPLACE S.A.T. CEILING TILES IF PIPING HAS PENETRATED CEILING.
2. REMOVE RADIATOR, THERMOSTAT, VISIBLE PIPING, WALL ANCHORS, & FLOOR ANCHORS. PATCH FLOOR TO MATCH EXISTING (SEE PLANS FOR FLOOR TYPES) AND PATCH & PAINT WALL TO MATCH EXISTING WALL TYPE AND COLOR.
3. REMOVE RADIATOR, THERMOSTAT, ALL VISIBLE PIPING, WALL ANCHORS, AND CEILING ANCHORS. PATCH & PAINT WALL TO MATCH EXISTING. PATCH CEILING TO MATCH EXISTING CONCRETE CEILING WHERE PIPING IS TO BE REMOVED.
4. REMOVE EXISTING TRANE COOLING UNIT, THERMOSTAT, SENSORS, CONTROLS, AND ALL VISIBLE PIPING INCLUDING CONDENSATE DRAIN LINE. REPAIR S.A.T. CEILING TO MATCH EXISTING CEILING. PATCH & PAINT WALLS TO MATCH EXISTING WALLS WHERE VISIBLE PIPING HAS PENETRATED WALLS. VERIFY LOCATION OF THERMOSTAT, PATCH WALL TO MATCH EXISTING WALL.
5. REMOVE 16" x 10" OUTSIDE AIR DUCTWORK FROM UNIT TO ROOF. REMOVE INTAKE HOOD AND CURB. REPAIR EXISTING SINGLE PLY ROOF PER SPECIFICATIONS.
6. REMOVE CONDENSATE PIPE FROM UNIT TO WALL AND / OR FLOOR. PATCH & PAINT WALL TO MATCH EXISTING WALL. PATCH FLOOR TO MATCH EXISTING FLOOR AND FLOOR COVERING.
7. REMOVE HEATING SUPPLY FROM ABOVE CEILING TO BELOW FLOOR. REPLACE S.A.T. CEILING TILE TO MATCH EXISTING CEILING TILE. PATCH FLOOR TO MATCH EXISTING FLOOR AND FLOOR COVERING.
8. REMOVE S.A.T. CEILING TILE AND REPLACE WITH TILE TO MATCH EXISTING TILE WERE EQUIPMENT, PIPING, ETC. IS REMOVED.
9. REMOVE VISIBLE HEATING PIPE. REPAIR FLOOR TO MATCH EXISTING FLOOR TYPE AND COVERING. PATCH & PAINT CEILING OPENING TO MATCH EXISTING CEILING TYPE AND COLOR.
10. REMOVE THERMOSTAT AND WIRING TO ASSOCIATED EQUIPMENT. PATCH & PAINT WALL TO MATCH EXISTING WALL.
11. REMOVE FAN COIL UNITS AND WOOD SIDE PANELS BELOW STAGE. 90" x 28' OPENING SHALL BE PATCHED WITH PLASTER OVER METAL LATCH AND STEEL STUDS. PAINT TO MATCH EXISTING WALL COLOR.
12. REMOVE VISIBLE HEATING PIPING. PATCH AND PAINT WALL TO MATCH EXISTING CMU / BRICK WALL.
13. REMOVE VISIBLE HEATING PIPING TO UPPER FLOOR. PATCH CEILING TO MATCH EXISTING CONCRETE CEILING.
14. REMOVE VISIBLE HEATING PIPING THROUGH FLOOR. PATCH FLOOR TO MATCH EXISTING FLOOR.
15. DISCONNECT ELECTRICAL CIRCUITS FROM EXISTING BOILERS, BOILER PUMPS, AIR COMPRESSORS, ETC.

SYMBOL LEGEND

- ITEM TO BE REMOVED
- REMOVE THERMOSTAT
- PIPING CAP
- (N.I.C.) NOT IN CONTRACT



PHASE III - BASEMENT DEMOLITION PLAN

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

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

PHASE III - HIGH SCHOOL FIRST FLOOR DEMOLITION PLAN

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

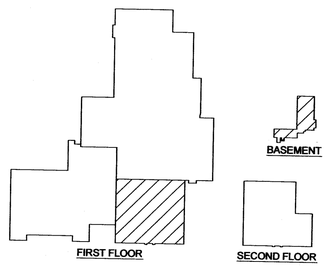
GENERAL NOTES:

1. REMOVE ALL ELECTRICAL WIRING FROM REMOVED EQUIPMENT TO ELECTRICAL PANEL.
2. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES ARE MADE OUT OF NON-FRIABLE ASBESTOS. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS. THE SCHOOL HAS A MANAGEMENT PLAN ON FILE IN THE OFFICE.

NORTH

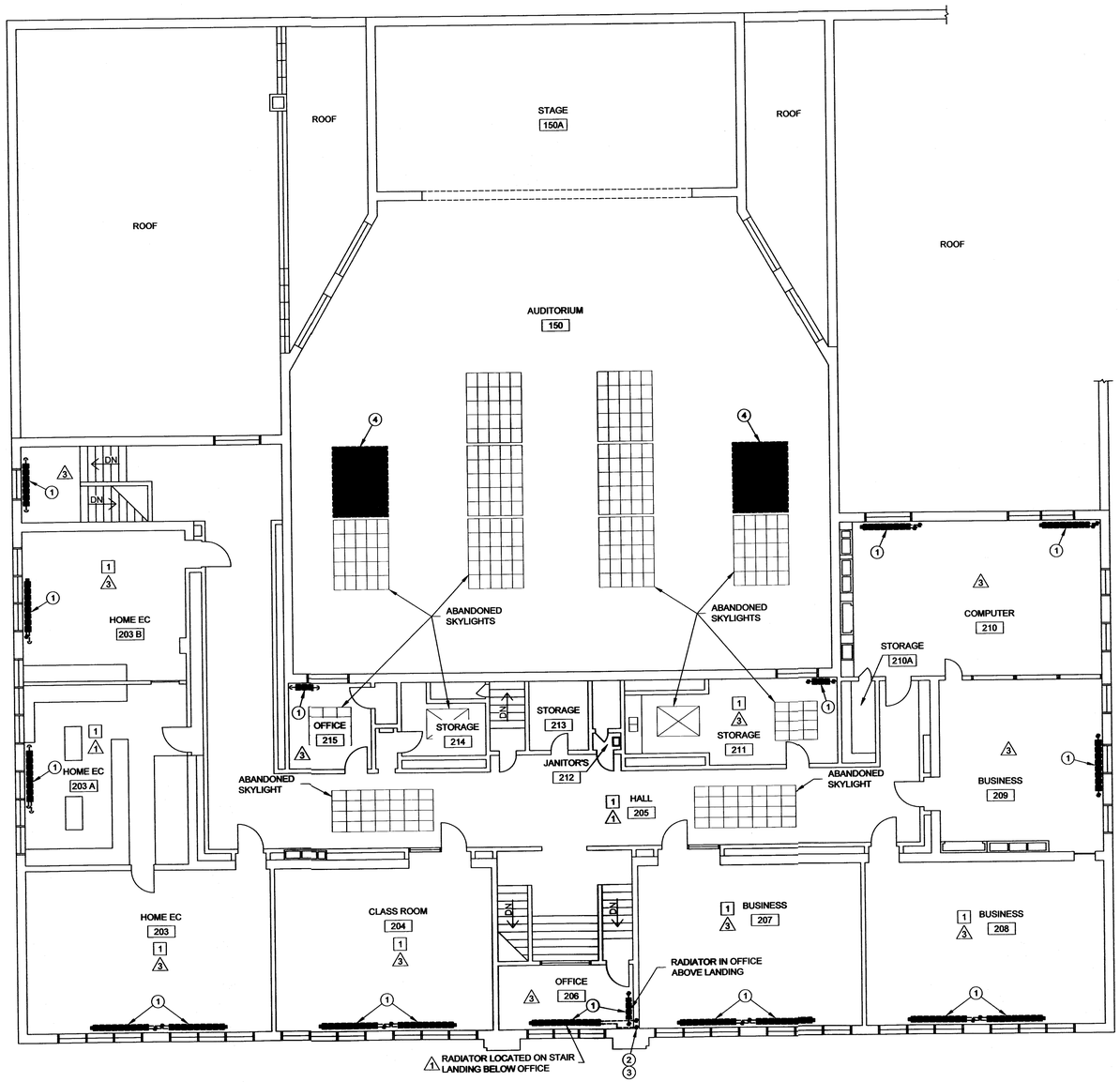


BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of VI Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

DWG: 849-06D-01



PHASE III - HIGH SCHOOL SECOND FLOOR DEMOLITION PLAN

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

SYMBOL LEGEND

	ITEM TO BE REMOVED
	REMOVE THERMOSTAT
	PIPING CAP
(N.I.C.)	NOT IN CONTRACT

FLAG NOTES:

1. REMOVE RADIATOR, THERMOSTAT, VISIBLE HEATING PIPING, FLOOR ANCHORS, AND WALL ANCHORS. PATCH & PAINT WALL TO MATCH EXISTING WALL TYPE AND COLOR. PATCH FLOOR TO MATCH EXISTING FLOOR TYPE AND COVERING.
2. PATCH AND PAINT WALL TO MATCH EXISTING WALL TYPE AND COLOR.
3. PATCH AND PAINT CEILING OPENINGS TO MATCH EXISTING CEILING TEXTURE AND COLOR ON STAIR LANDING.
4. REMOVE 8'-6" x 6'-6" ABANDONED SKYLIGHT IN AUDITORIUM. SKYLIGHT OPENING SHALL BE PATCHED BACK WITH PLASTER OVER METAL LATH AND STEEL STUDS. PAINT TO MATCH EXISTING CEILING COLOR. SEE ME-2 FOR DIFFUSER LOCATION.

GENERAL NOTES:

1. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES ARE MADE OUT OF NON-FRIABLE ASBESTOS. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS. THE SCHOOL HAS A MANAGEMENT PLAN ON FILE IN THE OFFICE.

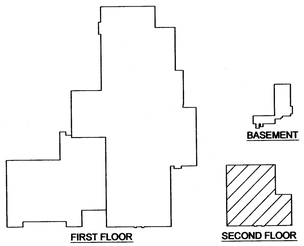
CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE

NORTH



BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

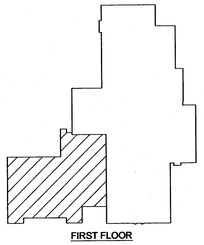
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06D-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

D-2

DATE: DECEMBER, 2006



BUILDING KEY

NOT TO SCALE

CEILING MATERIALS

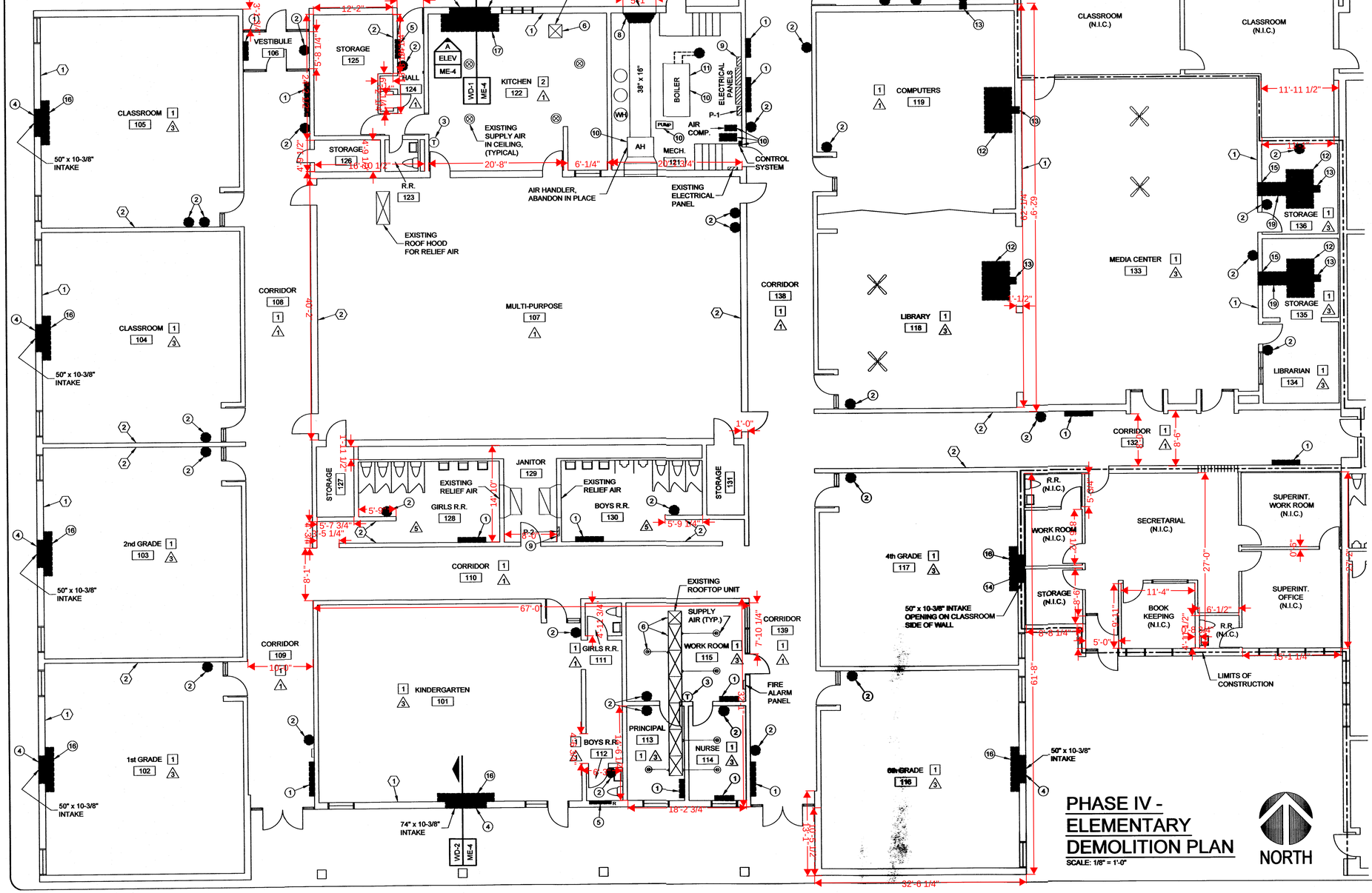
1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE
5. EXISTING 1" x 1" GLASS TILE

WALL MATERIALS

1. EXISTING GLAZED C.M.U. WITH FACE BRICK
2. EXISTING PAINTED C.M.U.



PHASE IV - ELEMENTARY DEMOLITION PLAN

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

SYMBOL LEGEND

	ITEM TO BE REMOVED
	REMOVE HEATING REGISTER
	REMOVE THERMOSTAT
	SUPPLY AIR REGISTER (U.I.P.)
	LIMITS OF CONSTRUCTION
	PIPING CAP
(N.I.C.)	NOT IN CONTRACT

FLOORING NOTE:

SOME OF THE EXISTING FLOOR TILES ARE MADE OUT OF NON-FRIABLE ASBESTOS. DRILLING, CUTTING OR GRINDING OF EXISTING FLOOR TILES SHALL BE DONE TO MEET THE NEBRASKA ASBESTOS CONTROL ACT REGULATIONS. THE SCHOOL HAS A MANAGEMENT PLAN ON FILE IN THE OFFICE.

GENERAL NOTES:

1. REMOVE ALL ELECTRICAL WIRING FROM REMOVED EQUIPMENT TO ELECTRICAL PANEL.
2. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.
3. CONTRACTOR SHALL REMOVE ALL DEMOLISHED EQUIPMENT FROM SITE.

FLAG NOTES:

1. REMOVE EXISTING FAN COIL UNIT, ASSOCIATED PIPING & WIRING. PATCH FLOOR TO MATCH EXISTING FLOOR & COVERING. PATCH & PAINT WALL TO MATCH EXISTING WALL COLOR.
2. REMOVE EXISTING THERMOSTAT & ALL ASSOCIATED WIRING. PROVIDE BLANK ELECTRICAL COVER OVER WALL OPENING, UNLESS USED FOR NEW THERMOSTAT.
3. EXISTING THERMOSTAT SHALL REMAIN (U.I.P.).
4. REMOVE EXISTING PLYWOOD, STYROFOAM & CAULKING. RETAIN INTAKE GRILLE FOR REINSTALLATION. SEE INTAKE WALL OPENING DETAIL ON SHEET ME-4 FOR MORE INFORMATION.
5. REMOVE RECESSED FAN COIL UNIT, ASSOCIATED PIPING, & WIRING. PATCH & PAINT CMU WALL TO MATCH EXISTING. PATCH FLOOR TO MATCH EXISTING FLOOR & COVERING.
6. EXISTING ROOFTOP UNIT, DUCTWORK, AND DIFFUSERS SHALL REMAIN.
7. REMOVE CHILLER, PIPING, WIRING, AND FENCE. SEAL ALL PIPING PENETRATIONS AT GROUND WATER TIGHT INTO BUILDING.
8. REMOVE DUCTWORK TRANSITION FROM EXISTING LOUVER TO 38" x 16" DUCTWORK. COVER LOUVER ON MECHANICAL ROOM SIDE WITH 3/4" PLYWOOD. CAULK ALL EDGES AND SEAMS AIR TIGHT.
9. ALL EXISTING CIRCUIT BREAKERS THAT ARE CONNECTED TO EXISTING EQUIPMENT BEING REMOVED SHALL ALSO BE REMOVED, (TYPICAL ALL ELECTRICAL PANELS).
10. DISCONNECT ELECTRICAL FROM THIS PIECE OF EQUIPMENT. REMOVE IT'S WIRING FOR POWER AND IT'S CIRCUIT BREAKER IN ELEC. PANEL.
11. DISCONNECT GAS LINE FROM BOILER. CAP GAS PIPE ABOVE BOILER.
12. REMOVE EXISTING UNIT VENTILATOR MOUNTED ON CEILING, CONDENSATE PIPE, WIRING, & ALL ASSOCIATED DUCTWORK. REPAIR T-GRID & INSTALL NEW TILE IN EXISTING S.A.T. CEILING ABOVE UNITS.
13. REMOVE FRESH AIR DUCTWORK, CURB, & ROOF HOOD. PATCH 12" x 8" ROOF OPENING. SEE SPECIFICATIONS FOR ROOF INFORMATION.
14. REPAIR FRESH AIR OPENING SIMILAR TO INTAKE WALL OPENING DETAIL EXCEPT DO NOT INSTALL THE INSULATION AND PLYWOOD.
15. PATCH DUCTWORK OPENING IN CMU WALL ON STORAGE ROOM SIDE.
16. REMOVE EXISTING VENTILATION UNIT, ASSOC. DUCTWORK, PIPING, & WIRING. PATCH FLOOR TO MATCH EXISTING FLOOR TYPE & COVERING.
17. REMOVE EXISTING CEILING HUNG VENTILATION UNIT, ASSOCIATED DUCTWORK, PIPING, AND WIRING. UNIT IS LOCATED ABOVE EXISTING COMMERCIAL REFRIGERATOR. DRAPE ALL KITCHEN EQUIPMENT WITH PLASTIC DURING CONSTRUCTION. PATCH AND PAINT EXISTING HARD CEILING TO MATCH EXISTING CEILING.
18. REMOVE EXISTING PLYWOOD, STYROFOAM & CAULKING. RETAIN INTAKE GRILLE FOR REINSTALLATION. SEE KITCHEN 122 WALL OPENING DETAIL ON SHEET ME-4 FOR MORE INFORMATION.
19. REMOVE DUCTWORK.

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 845-06D-03
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

D-3

DATE: DECEMBER, 2006

FLAG NOTES

1. ROUTE CONDENSATE LINE IN CEILING SPACE.
2. CONNECT NEW 1" CONDENSATE LINE TO EXISTING PLUMBING VENT LINE IN CHASE WITH A P-TRAP.
3. CONNECT NEW 3/4" CONDENSATE LINE TO EXISTING PLUMBING VENT LINE IN CHASE WITH A P-TRAP.
4. ROUTE NEW 3/4" CONDENSATE LINE TO EXISTING CONDENSATE RISER.
5. ROUTE NEW 1" CONDENSATE LINE TO EXISTING SINK PLUMBING VENT WITH A P-TRAP.
6. HEAT PUMP CONDENSING UNITS HP-4 ARE LOCATED ON ROOF.

FLAG NOTES

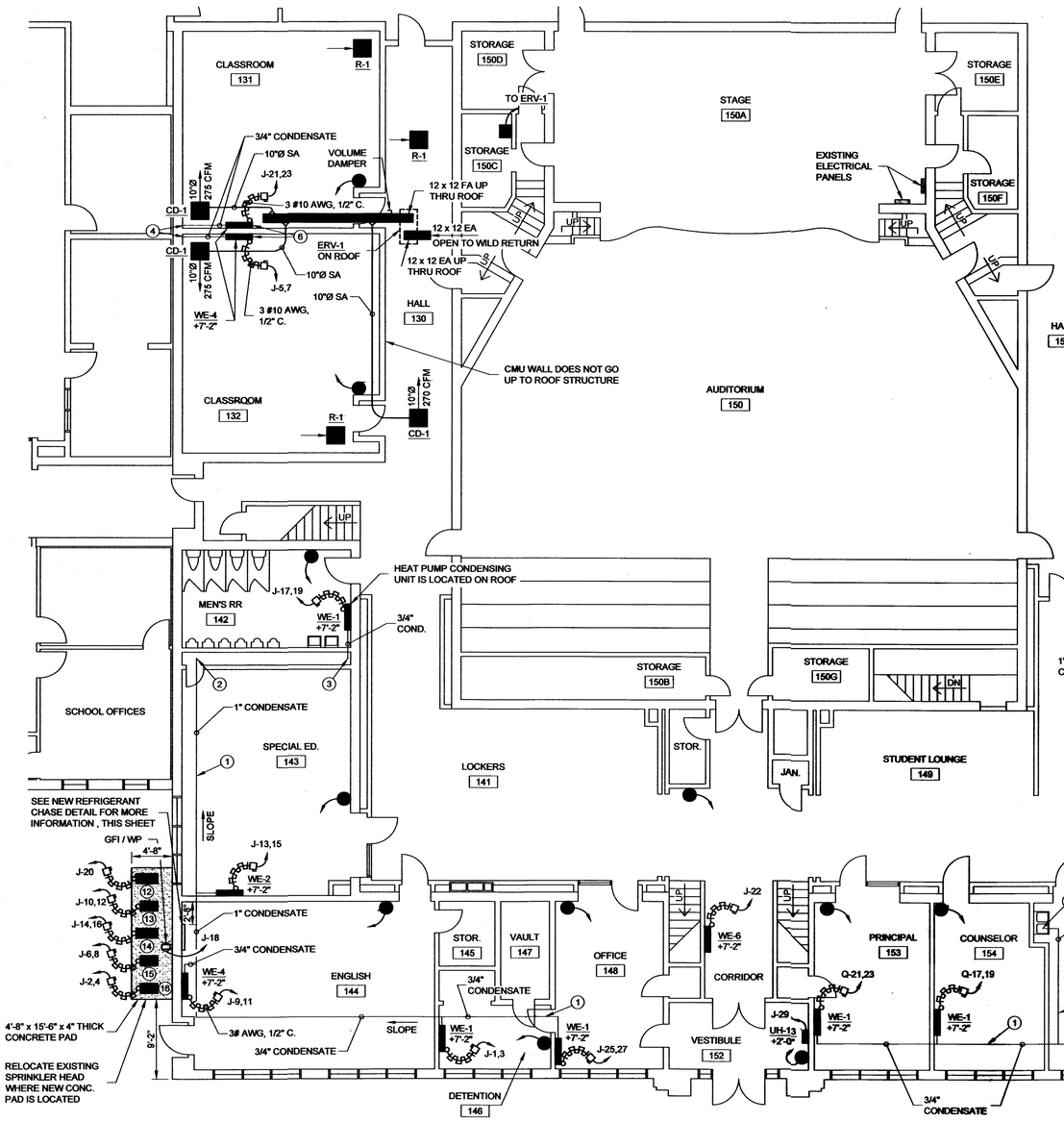
7. HP-1 TO WE-1 IN ROOM 156, WOMEN 'S RESTROOM.
8. HP-3 TO WE-3 IN ROOM 155, ART.
9. HP-3 TO WE-3 IN ROOM 155, ART.
10. HP-1 TO WE-1 IN ROOM 154, COUNSELOR.
11. HP-1 TO WE-1 IN ROOM 153, PRINCIPAL.
12. HP-5 TO WE-6 IN CORRIDOR.
13. HP-2 TO WE-2 IN ROOM 143, SPECIAL EDUCATION.
14. HP-4 TO WE-4 IN ROOM 144, ENGLISH.
15. HP-1 TO WE-1 IN ROOM 146, DETENTION.
16. HP-1 TO WE-1 IN ROOM 148, OFFICE.

SYMBOL LEGEND

- DUPLEX CONVENIENCE OUTLET
- THERMOSTAT @ +5'-0" A.F.F.
- CONNECT TO EQUIPMENT
- 1,3 — INDICATES HOME RUN TO CIRCUITS 1 AND 3
- DISCONNECT SWITCH, SIZED TO LOAD
- NEW SUPPLY AIR DIFFUSER
- NEW RETURN AIR GRILLE
- TIMER @ 5'-0" ABOVE FINISH FLOOR

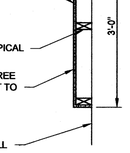
GENERAL NOTES:

1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN GRILLES WITH EXISTING LIGHTS.
2. COORDINATE SA & RA DUCTWORK WITH EXISTING LIGHTS, ABANDONED PIPING, STORM PIPING AND ABANDONED SKYLIGHT STRUCTURE.
3. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS..
4. IF SAT CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE & T-GRID TO MATCH EXISTING.
5. SEE SHEET D-1 FOR EXISTING FLOOR AND CEILING MATERIAL NOTES.
6. NOTE #4 ON SHEET ME-2.
7. NOTE #5 ON SHEET ME-2.
8. DUCT SIZES SHOWN ARE NOMINAL. DUCT SIZES MAY BE CHANGED SO LONG AS EQUIVALENT AREA IS MAINTAINED. MAXIMUM VELOCITY IN BRANCH DUCT SHALL BE 750 FPM, AND 1000 FPM IN TRUNK RUNS.
9. INSULATE ALL HVAC DUCTWORK PER SPECIFICATIONS.



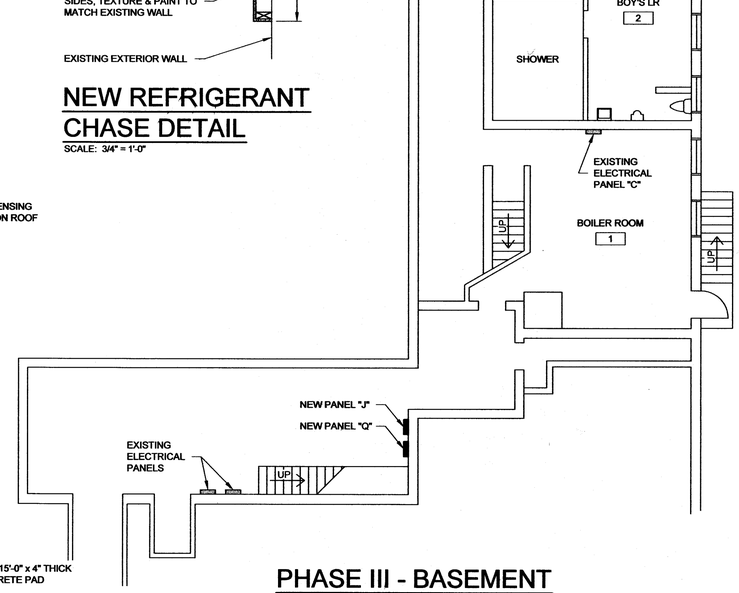
PHASE III - HIGH SCHOOL FIRST FLOOR MECHANICAL / ELECTRICAL PLAN

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



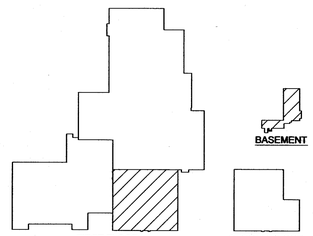
NEW REFRIGERANT CHASE DETAIL

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



PHASE III - BASEMENT MECHANICAL / ELECTRICAL PLAN

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



BUILDING KEY

NOT TO SCALE

NORTH

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06ME-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-1

DATE: DECEMBER, 200

GENERAL NOTES:

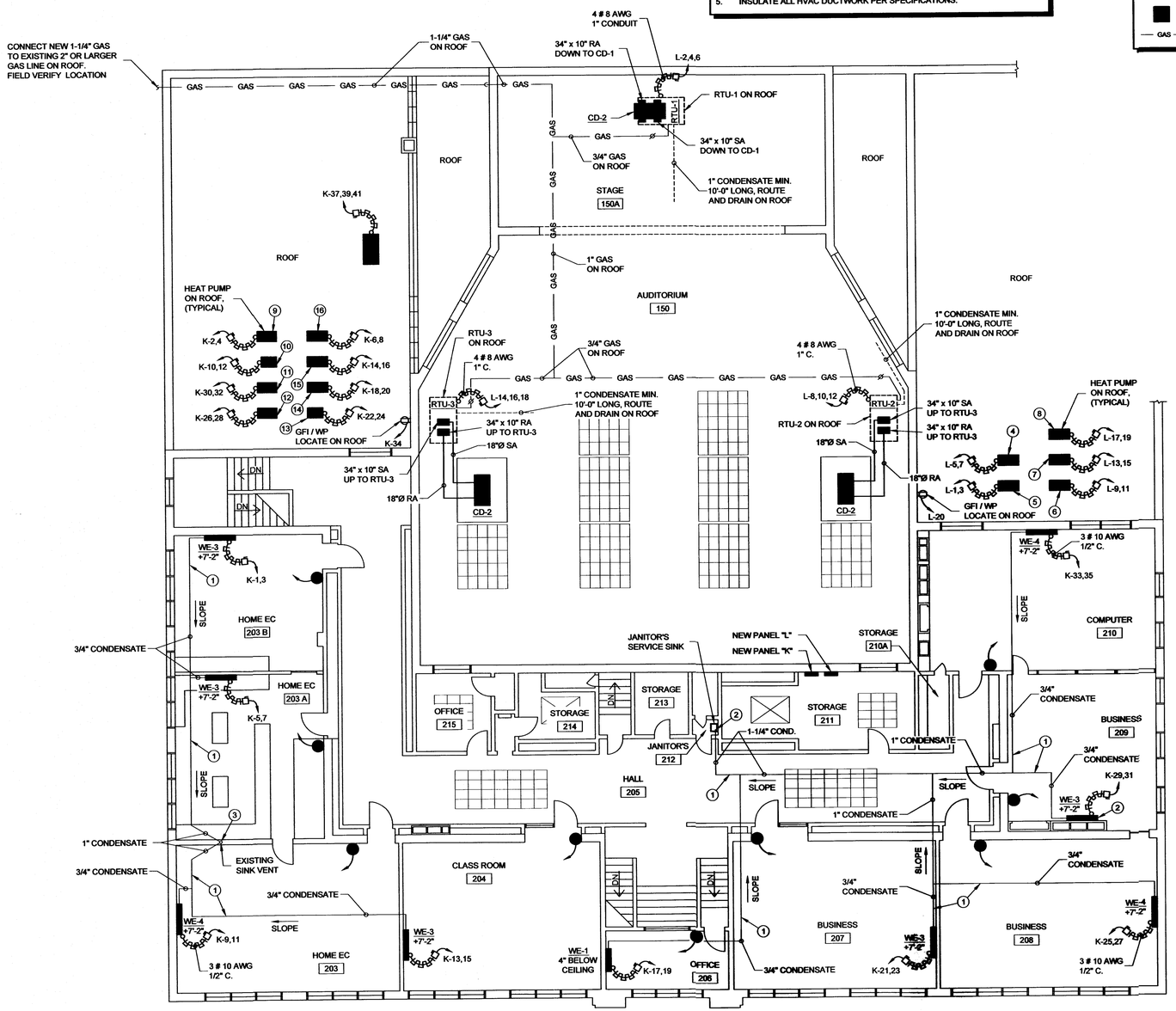
1. COORDINATE NEW SUPPLY DIFFUSER AND RETURN AIR DUCTWORK WITH EXISTING ROOF STRUCTURE. (TYPICAL ALL THREE ROOFTOP UNITS.)
2. SEE SPECIFICATIONS FOR MORE INFORMATION ON CUTTING AND PATCHING OF ROOF OPENINGS.
3. SEE SHEET D-2 FOR EXISTING FLOOR AND CEILING MATERIAL NOTES.
4. DUCT SIZES SHOWN ARE NOMINAL. DUCT SIZES MAY BE CHANGED SO LONG AS EQUIVALENT AREA IS MAINTAINED. MAXIMUM VELOCITY IN BRANCH DUCT SHALL BE 750 FPM, AND 1000 FPM IN TRUNK RUNS.
5. INSULATE ALL HVAC DUCTWORK PER SPECIFICATIONS.

SYMBOL LEGEND

- DUPLEX CONVENIENCE OUTLET
- THERMOSTAT @ +5'-0" A.F.F.
- CONNECT TO EQUIPMENT
- 1,3 — INDICATES HOME RUN TO CIRCUITS 1 AND 3
- DISCONNECT SWITCH, SIZED TO LOAD
- NEW SUPPLY AIR DUCTWORK
- NEW RETURN AIR DUCTWORK
- GAS — NEW GAS LINE, SIZE AS NOTED

FLAG NOTES:

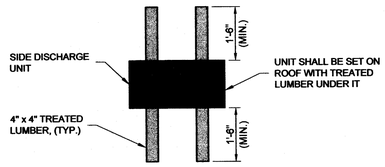
1. ROUTE CONDENSATE IN CEILING SPACE.
2. ROUTE 1-1/4" CONDENSATE TO JANITORS SINK.
3. CONNECT 1" CONDENSATE TO EXISTING VENT LINE OF KITCHEN SINK WITH A P-TRAP.
4. HP-4 TO WE-4 IN ROOM 210.
5. HP-3 TO WE-4 IN ROOM 207.
6. HP-4 TO WE-3 IN ROOM 208.
7. HP-3 TO WE-3 IN ROOM 209.
8. HP-3 TO WE-1 IN ROOM 157.
9. HP-4 TO WE-4 IN ROOM 132.
10. HP-1 TO WE-1 IN ROOM 142.
11. HP-4 TO WE-4 IN ROOM 203.
12. HP-3 TO WE-3 IN ROOM 204.
13. HP-1 TO WE-1 IN ROOM 206.
14. HP-3 TO WE-3 IN ROOM 203A.
15. HP-3 TO WE-3 IN ROOM 203B.
16. HP-4 TO WE-4 IN ROOM 131.



PHASE III - HIGH SCHOOL SECOND FLOOR MECHANICAL / ELECTRICAL PLAN

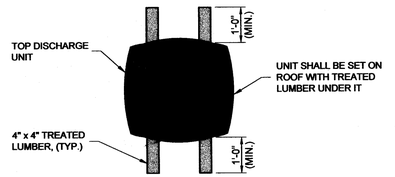
SCALE: 1/8" = 1'-0"

NORTH



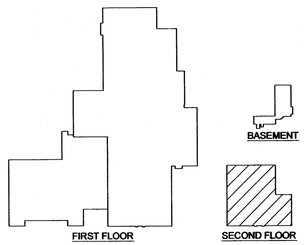
ROOF HEAT PUMP DETAIL

NO SCALE



ROOF CONDENSING UNIT DETAIL

NO SCALE



BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06ME-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

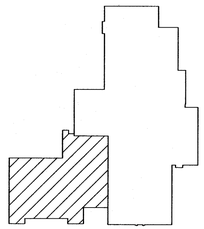
ME-2

DATE: DECEMBER, 2006

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA



FIRST FLOOR

BUILDING KEY

NOT TO SCALE

SYMBOL LEGEND

	DUPLEX CONVENIENCE OUTLET
	THERMOSTAT @ +5'-0" A.F.F.
	TIMER @ +5'-0" A.F.F.
	CONNECT TO EQUIPMENT
1,3	INDICATES HOME RUN TO CIRCUITS 1 AND 3
	DISCONNECT SWITCH, SIZED TO LOAD
	NEW SUPPLY AIR DIFFUSER
	NEW RETURN AIR GRILLE
	VOLUME DAMPER
GAS	NEW GAS LINE, SIZE AS NOTED
	LIMITS OF CONSTRUCTION
(N.I.C.)	NOT IN CONTRACT

GENERAL NOTES

1. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.
2. SEE SHEET D-3 FOR EXISTING FLOOR, CEILING, AND WALL MATERIAL NOTES.
3. NEW PANELS SHALL BE INSTALLED PER LATEST ADDITION OF THE N.E.C.
4. COORDINATE ROUTING OF REFRIGERANT, CONDENSATE LINES WITH NEW ELECTRICAL PANELS.
5. ALL CONDENSING UNITS (CU), HEAT PUMPS (HP), AND ERV UNITS SHOWN AS DASHED ARE LOCATED ON ROOF.
6. DUCT SIZES SHOWN ARE NOMINAL. DUCT SIZES MAY BE CHANGED SO LONG AS EQUIVALENT AREA IS MAINTAINED. MAXIMUM VELOCITY IN BRANCH DUCT SHALL BE 750 FPM, AND 1000 FPM IN TRUNK RUNS.
7. INSULATE ALL HVAC DUCTWORK PER SPECIFICATIONS.
8. SEE SHEET ME-2 FOR ROOF HEAT PUMP DETAIL AND ROOF CONDENSING UNIT DETAIL.

FLAG NOTES

1. REMOVE (1) 16" x 8" CMU BLOCK FOR RETURN AIR. BLOCK SHALL BE REMOVED BY A HAMMER, PUNCH AND CHISEL.
2. REMOVE CMU FOR RUNNING DUCTWORK WITH A HAMMER, PUNCH AND CHISEL.
3. CENTER WALL EVAPORATOR ON GRILLE OPENINGS IN WALL.
4. ROUTE CONDENSATE ABOVE CEILING.
5. CONNECT NEW 3/4" GAS TO EXISTING GAS LINE. VERIFY LOCATION AND SIZE OF EXISTING GAS LINE.
6. GFI / WP OUTLET LOCATED ON ROOF.
7. CU-1 TO WE-4 & WE-5 IN ROOM 120, 5th GRADE.
8. CU-1 TO WE-4 & WE-5 IN ROOM 119, COMPUTERS.
9. CU-2 TO WE-4 & WE-5 IN ROOM 118, LIBRARY.
10. CU-1 TO WE-4 & WE-5 IN ROOM 117, 4th GRADE.
11. CU-2 TO WE-4 & WE-5 IN ROOM 116, 6th GRADE.
12. CU-2 TO WE-4 & WE-5 IN ROOM 133, MEDIA CENTER.
13. HP-1 TO WE-1 IN ROOM 134, LIBRARIAN.
14. HP-5 TO WE-6 IN ROOM 136, STORAGE.
15. CU-2 TO WE-4 & WE-5 IN ROOM 101, KINDERGARTEN.
16. CU-2 TO WE-4 & WE-5 IN ROOM 102, 1st GRADE.
17. CU-2 TO WE-4 & WE-5 IN ROOM 103, 2nd GRADE.
18. CU-2 TO WE-4 & WE-5 IN ROOM 104, CLASSROOM.
19. CU-2 TO WE-4 & WE-5 IN ROOM 105, CLASSROOM.
20. 3 - # 10 AWG, 1/2" CONDUIT FOR WIRING.

PHASE IV - ELEMENTARY MECHANICAL / ELECTRICAL PLAN

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

NORTH

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06ME-03
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-3

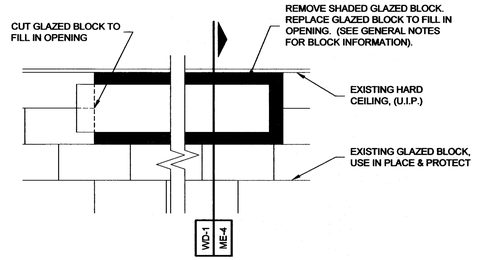
DATE: DECEMBER, 2006

CONDENSING UNIT SCHEDULE

MARK	DESCRIPTION
HP-1	EMI MODEL S1HD9 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 9,000 BTUH COOLING, 8,200 BTUH HEATING, 13.0 SEER, 12.0 EER, 3.6 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 4.2 AMPS, 5.1 MCA.
HP-2	EMI MODEL S1HD2 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 12,000 BTUH COOLING, 10,200 BTUH HEATING, 13.0 SEER, 12.1 EER, 3.4 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 5.1 AMPS, 6.2 MCA.
HP-3	EMI MODEL S1HD8 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 18,000 BTUH COOLING, 16,400 BTUH HEATING, 13.0 SEER, 12.0 EER, 3.8 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 6.2 AMPS, 7.6 MCA.
HP-4	EMI MODEL S1HD4 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 23,000 BTUH COOLING, 20,600 BTUH HEATING, 13.0 SEER, 12.0 EER, 3.5 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 8.8 AMPS, 10.8 MCA.
HP-5	EMI MODEL S1HA9 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 9,000 BTUH. COOLING, 8,200 BTUH HEATING, 13.0 SEER, 12.0 EER, 3.6 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 115V, 1 PH, 60 Hz, 8 AMPS, 9.7 MCA.
CU-1	EMI MODEL T2CA88 MULIT-ZONE CONDENSING UNIT. UNIT SHALL PROVIDE 36,000 BTUH COOLING, 13.0 SEER. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 12.6 AMPS, 14.0 MCA.
CU-2	EMI MODEL T2CA84 MULIT-ZONE CONDENSING UNIT. UNIT SHALL PROVIDE 41,000 BTUH COOLING, 13.0 SEER. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 15.2 AMPS, 17.2 MCA.

EVAPORATOR UNIT SCHEDULE

MARK	DESCRIPTION
WE-1	EMI MODEL WLHA09 HIGH WALL EVAPORATOR. PROVIDE WITH 3 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 13.4 AMPS, 16.7 MCA.
WE-2	EMI MODEL WLHA12 HIGH WALL EVAPORATOR. PROVIDE WITH 3 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 13.4 AMPS, 16.7 MCA.
WE-3	EMI MODEL WLHA24 HIGH WALL EVAPORATOR. PROVIDE WITH 3 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 13.6 AMPS, 17 MCA.
WE-4	EMI MODEL WLHA24 HIGH WALL EVAPORATOR. PROVIDE WITH 5 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 22.3 AMPS, 27.9 MCA.
WE-5	SAME AS WE-4, EXCEPT WITHOUT THERMOSTAT.
WE-6	SAME AS WE-1, EXCEPT PROVIDE WITH 0.75 KW SUPPLEMENT HEAT. 115V, 1 PH, 60 Hz, 7.14 AMPS, 8.9 MCA.



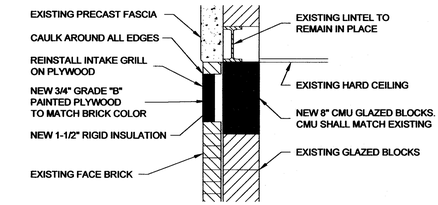
ELEVATION "A"
KITCHEN 122 - WALL ELEVATION
SCALE: 3/4" = 1'-0"

ROOFTOP UNIT SCHEDULE

MARK	DESCRIPTION
RT-1	YORK MODEL DEGD060 MID. EFFICIENCY BELT-DRIVE ROOFTOP UNIT WITH NATURAL GAS, BOTTOM DISCHARGE, ECONOMIZER, DISCONNECT, POWERED CONVENIENCE OUTLET, SMOKE DETECTOR IN SUPPLY AND RETURN AIR, HAIL GUARD, AND 14" ROOF CURB. COOLING - 11.0 SEER, 58.0 MBH TOTAL CAPACITY, 44.0 MBH SENSIBLE CAPACITY AT 80°F/67°F/105°F. HEATING - 100 MBH INPUT, 79 MBH OUTPUT, 80% AFUE. 1990 CFM AT 0.5 SP, 208V, 3Ø, 60 Hz., 33.0 MCA. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL T7350 AND UNIVERSAL VERSAGUARD.
RT-2	SAME AS RT-1
RT-3	SAME AS RT-1

ERV UNIT SCHEDULE

MARK	DESCRIPTION
ERV-1	RENEWAIRE MODEL HE10XRT ROOFTOP ENERGY RECOVERY VENTILATOR. 820 CFM AT 0.5 ESP 208V, 3 PH, 2.1 FLA, 4.7 FCA. PROVIDE WITH ROOF CURB AND MODEL TC7D DIGITAL TIME CLOCK WALL MOUNT.
ERV-2	SAME AS ERV-1
ERV-3	SAME AS ERV-1
ERV-4	SAME AS ERV-1
ERV-5	RENEWAIRE MODEL EV450RT ROOFTOP ENERGY RECOVERY VENTILATOR. 450 CFM AT 0.5 ESP 208V, 3 PH, 1.7 FLA. PROVIDE WITH ROOF CURB AND MODEL TC7D DIGITAL TIME CLOCK WALL MOUNT.
ERV-6	SAME AS ERV-5



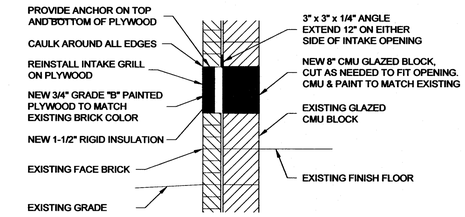
WD-1 KITCHEN 122 WALL OPENING DETAIL
SCALE: 3/4" = 1'-0"

DIFFUSERS, REGISTERS & GRILLES

MARK	DESCRIPTION
CD-1	J & J REGISTER MODEL 1500 STEEL STEP-DOWN DIFFUSER. COLOR SHALL BE WHITE. PROVIDE WITH MODEL R42 RADIAL-BLADE DAMPER. SEE DRAWING FOR NECK SIZES.
CD-2	ROOFTOP SYSTEMS MODEL 01-510-18 CONCENTRIC DIFFUSER SYSTEM. COLOR SHALL BE WHITE.
R-1	J & J REGISTER MODEL 1274 STEEL PERFORATED RETURN TURNED-UP PANEL ONLY. 24"x24" LAY-IN CEILING. COLOR SHALL BE WHITE.

HEATER SCHEDULE

MARK	DESCRIPTION
UH-1	BERKO MODEL QFG1512IFM FAN FORCED HEATER 1500 WATTS, 120V. 1Ø, 12.5 AMPS. PROVIDE WITH THERMOSTAT AND SURFACE MOUNT FRAME. COLOR SHALL BE WHITE
UH-2	SAME AS UH-1
UH-3	SAME AS UH-1
UH-4	SAME AS UH-1
UH-5	BERKO MODEL QFG1512IFM FAN FORCED HEATER 1125 WATTS, 120V. 1Ø, 9.4 AMPS. PROVIDE WITH THERMOSTAT, THERMOSTAT GUARD AND SURFACE MOUNT FRAME. COLOR SHALL BE WHITE.
UH-6	SAME AS UH-5
UH-7	BERKO MODEL RCC6008C COVE HEATER 600 WATTS, 208V. 1Ø, 2.9 AMPS. PROVIDE WITH THERMOSTAT. COLOR SHALL BE OFF-WHITE.
UH-8	BERKO MODEL RCC18006C COVE HEATER 1800 WATTS, 208V. 1Ø, 8.7 AMPS. PROVIDE WITH THERMOSTAT AND THERMOSTAT GUARD. COLOR SHALL BE OFF-WHITE.
UH-9	SAME AS UH-8
UH-10	BERKO MODEL QFF4008 CEILING MOUNTED FAN FORCED HEATER 4000 WATTS, 208V. 1Ø, 19.2 AMPS. UNIT SHALL BE RECESSED INTO CEILING. PROVIDE WITH THERMOSTAT. THERMOSTAT SHALL BE ABLE TO HANDLE TWO HEATING UNITS. COLOR SHALL BE OFF-WHITE.
UH-11	SAME AS UH-10. EXCEPT WITHOUT THERMOSTAT.
UH-12	BERKO MODEL HUH-620SA INDUSTRIAL UNIT HEATER 5000 WATTS, 208V. 3Ø, 12.5 AMPS. PROVIDE WITH CEILING MOUNT BRACKET, REMOTE THERMOSTAT WITH METAL THERMOSTAT GUARD AND DISCONNECT SWITCH.
UH-13	SAME AS UH-1
UH-14	BERKO MODEL HUH-624TA HORIZONTAL/DOWNFLOW UNIT HEATER 24000 WATTS, 208V. 1Ø, 12.0 AMPS, 15.0 MCA. COLOR SHALL BE OFF-WHITE.
UH-15	REZNOR MODEL UDAS 45, 45,000 BTUH INPUT, 37,350 BTUH OUTPUT, 115V, 1 PHASE, 2.4 A. FLA. PROVIDE WITH VERTICAL COMBUSTION AIR/VENT KIT INCLUDING CONCENTRIC ADAPTER, THERMOSTAT WITH THERMOSTAT GUARD WITH LOCKING COVER, MASTER SLAVE CONTROL, CEILING SUSPENSION KIT.
UH-16	SAME AS UH-15, EXCEPT INTERCONNECT TO THERMOSTAT FOR UH-15
UH-17	MOUND AND HAVE FORNT INLET AND DISCHARGE AIR CONFIGURATION. PROVIDE WITH REMOTE THERMOSTAT AND DISCONNECT.
UH-18	SAME AS UH-17



WD-2 WALL OPENING DETAIL
SCALE: 3/4" = 1'-0"

GENERAL NOTES

1. PLYWOOD SHALL BE PAINTED ON THE EXTERIOR SIDE TO MATCH COLOR OF BRICK.
2. PAINT NEW CMU SIMILAR TO EXISTING CLASSROOM COLOR.
3. IF INTAKE OPENING IS LOCATED AT THE FLOOR, NEW GLAZED CONCRETE MASONRY UNITS SHALL BE INSTALLED AT THE FIRST COURSE THEN A REGULAR CMU BLOCK SHALL BE INSTALLED ABOVE IT. THE GLAZED UNITS SHALL BE OF A SIMILAR COLOR AS EXISTING UNITS. GLAZED CONCRETE MASONRY UNIT SHALL BE A SPECTRA-GLAZE II FACTORY GLAZED MASONRY UNIT OR EQUAL.
   MANUFACTURER: SPECTRA DEVELOPMENT CORPORATION LICENSING & CHEMICAL DIVISION
   4230 BOSTON STREET
   BALTIMORE, MARYLAND 21224
   PHONE # (410) 837-1810

PHASE III & IV HVAC PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06ME-04
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-4

DATE: DECEMBER, 2006

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PANEL F (PHASE IV)

STORAGE 127

SERVICE: 120/208 V. 3P 4W
PANEL: 400 AMP MAIN BREAKER, SQUARE D TYPE NQOD
TCL: 80,834

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	5805			WE-5 ROOM 101	30	1	30	WE-5 ROOM 104			5805	2
3						2						4
5	5805			WE-4 ROOM 101	30	3	30	WE-4 ROOM 104			5805	6
7						1						8
9	5805			WE-5 ROOM 102	30	2	30	WE-4 ROOM 105			5805	10
11						3						12
13	5805			WE-4 ROOM 102	30	1	30	WE-4 ROOM 105			5805	14
15						2						16
17	5805			WE-5 ROOM 103	30	3	20	UH-7 & -2			1848	18
19						1						20
21	5805			WE-4 ROOM 103	30	2	20	UH-18			5000	22
23						3						24
25						1						26
27						2						28
29						3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2	225	Panel G			15936	40
41						3						42
								TOTAL PANEL LOAD			80834	
								Amps			235	

*THE 'CU' UNITS ARE NOT GOING TO BE RAN WHEN THE 'WE' HEATING ELEMENT ARE ENGAGED.

PANEL H (PHASE IV)

STORAGE 127

SERVICE: 120/208 V. 3P 4W
PANEL: 400 AMP MAIN BREAKER, SQUARE D TYPE QO CLASS 1130
TCL: 104,972

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	3475			WE-1 LIBRARIAN	20	1						2
3						2	15	ERV-4			978	4
5	1061			HP-5 STORAGE	15	3						6
7				SPACE		1						8
9	5805			WE-5 ROOM 119	30	2	15	ERV-5 &-6			708	10
11						3						12
13	5805			WE-4 ROOM 119	30	1	15	HP-1 LIBRARIAN			1061	14
15						2						16
17	5805			WE-5 ROOM 120	30	3	15	UH-15 & UH-16			552	18
19						1	20	ROOF REC.			180	20
21	5805			WE-4 ROOM 120	30	2	15	WE-6 STORAGE			1025	22
23						3	15	UH-6			1128	24
25	5805			WE-5 ROOM 133	30	1						26
27						2						28
29	5805			WE-4 ROOM 133	30	3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2	150	PANEL I			59974	40
41						3						42
								TOTAL PANEL LOAD			104972	
								Amps			294	

*THE 'CU' UNITS ARE NOT GOING TO BE RAN WHEN THE 'WE' HEATING ELEMENT ARE ENGAGED.

PANEL J (PHASE III)

HIGH SCHOOL BASEMENT

SERVICE: 120/208 V. 3P 4W
PANEL: 400 AMP MAIN BREAKER, SQUARE D TYPE NQOD
TCL: 75,970

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	3475			WE-1 ROOM 146 (Detention)	20	1	15	HP-1 GROUND (Room 148)			1061	2
3						2						4
5	5805			WE-4 ROOM 132	30	3	15	HP-1 GROUND (Room 146)			1061	6
7						1						8
9	5805			WE-4 ROOM 144 (English)	30	2	15	HP-2 GROUND (Room 143)			1290	10
11						3						12
13	3475			WE-2 ROOM 143 (Special Ed)	20	1	15	HP-4 GROUND (Room 144)			2247	14
15						2						16
17	3475			WE-1 ROOM 142 (Men's RR)	20	3	20	EXTERIOR REC.			180	18
19						1	15	HP-5 GROUND (Corridor)			1116	20
21	5805			WE-4 ROOM 131	30	2	15	WE-6 First Floor Corridor			1024	22
23						3						24
25	3475			WE-1 ROOM 148 (Office)	20	1						26
27						2						28
29	1500			UH-13	20	3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2	150	PANEL Q			35176	40
41						3						42
								TOTAL PANEL LOAD			75970	
								Amps			211	

PANEL K (PHASE III)

ROOM 211

SERVICE: 120/208 V. 3P 4W
PANEL: 400 AMP MAIN BREAKER, SQUARE D TYPE NQOD
TCL: 98,375

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	3536			WE-3 ROOM 203B	20	1	15	HP-4 ROOF (Room 132)			2247	2
3						2						4
5	3536			WE-3 ROOM 203A	20	3	15	HP-4 ROOF (Room 131)			2247	6
7						1						8
9	5805			WE-4 ROOM 203	30	2	15	HP-1 ROOF (Room 142)			1061	10
11						3						12
13	3536			WE-3 ROOM 204	20	1	15	HP-3 ROOF (Room 203B)			1581	14
15						2						16
17	3475			WE-1 ROOM 206 (Office)	20	3	15	HP-3 ROOF (Room 203A)			1581	18
19						1						20
21	3536			WE-3 ROOM 207 (Business)	20	2	15	HP-1 ROOF (Room 206)			1061	22
23						3						24
25	5805			WE-4 ROOM 208 (Business)	30	1	15	HP-3 ROOF (Room 204)			1581	26
27						2						28
29	3536			WE-3 ROOM 208 (Business)	20	3	15	HP-4 ROOF (Room 203)			2247	30
31						1						32
33	5805			WE-4 ROOM 210 (Computer)	30	2	20	ROOF REC.			180	34
35						3						36
37	978			ERV-1 (Roof)	15	1	200	PANEL L			45041	38
39						2						40
41						3						42
								TOTAL PANEL LOAD			98375	
								Amps			275	

PANEL G (PHASE IV)

STORAGE 127

SERVICE: 120/208 V. 3P 4W
PANEL: 225 AMP MLO, SQUARE D TYPE QO CLASS 1130
TCL: 32,408

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	3580			CU-2 Kindergarten 101	25	1						2
3						2	20	ERV-2 & -3			1956	4
5	3580			CU-2 1st Grade 102	25	3						6
7						1	20	UH-4			1500	8
9	3580			CU-2 2nd Grade 103	25	2	25	UH-10			2328	10
11						3	25	UH-11			2328	12
13	3580			CU-2 Classroom 104	25	1	20	ROOF REC.			180	14
15						2	20	UH-3			1500	16
17	3580			CU-2 Classroom 105	25	3	20	UH-1			1500	18
19						1	20	UH-8			1044	20
21						2	20	UH-9			1044	22
23						3	20	UH-5			1128	24
25						1						26
27						2						28
29						3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2						40
41						3						42
								TOTAL PANEL LOAD			14508	
								Amps			44	

*THE 'CU' UNITS ARE NOT GOING TO BE RAN WHEN THE 'WE' HEATING ELEMENT ARE ENGAGED.

PANEL I (PHASE IV)

STORAGE 127

SERVICE: 120/208 V. 3P 4W
PANEL: 225 AMP MLO, SQUARE D TYPE QO CLASS 1130
TCL: 59,974

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	3580			CU-2 Media Center 133	25	1	25	CU-2 6th Grade 116			3580	2
3						2						4
5	3580			CU-2 Library 118	25	3	15	CU-1 4th Grade 117			2912	6
7						1						8
9	2912			CU-1 5th Grade 120	15	2	25	CU-2 Computer 119			3580	10
11						3						12
13	5805			WE-5 ROOM 116	30	1	30	WE-4 ROOM 117			5805	14
15						2						16
17	5805			WE-4 ROOM 116	30	3	30	WE-5 ROOM 118			5805	18
19						1						20
21	5805			WE-5 ROOM 117	30	2	30	WE-4 ROOM 118			5805	22
23						3						24
25	5000			UH-18	20	1						26
27						2						28
29						3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2						40
41						3						42
								TOTAL PANEL LOAD			59974	
								Amps			177	

*THE 'CU' UNITS ARE NOT GOING TO BE RAN WHEN THE 'WE' HEATING ELEMENT ARE ENGAGED.

PANEL Q (PHASE III)

HIGH SCHOOL BASEMENT

SERVICE: 120/208 V. 3P 4W
PANEL: 200 AMP MAIN BREAKER, SQUARE D TYPE QO CLASS 1130
TCL: 33,278

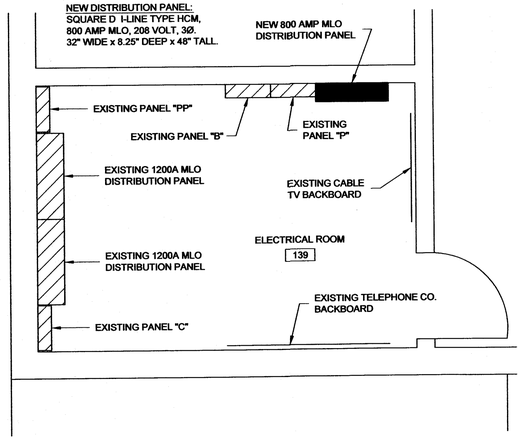
CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	1061			HP-1 GROUND (Room 153)	15	1	20	WE-3 SO. ROOM 155 (Art)			3536	2
3						2						4
5	1061			HP-1 GROUND (Room 154)	15	3	20	WE-3 NO. ROOM 155 (Art)			3536	6
7						1						8
9	1581			HP-3 GROUND (Room 155)	15	2	20	WE-1 ROOM 156 (W. RR)			3475	10
11						3						12
13	1061			HP-1 GROUND (Room 156)	15	1	20	WE-3 ROOM 157 (Office)			3536	14
15						2						16
17	3475			WE-1 ROOM 154 (Counselor)	20	3	20	UH-12			2600	18
19						1						20
21	3475			WE-1 ROOM 153 (Principal)	20	2						22
23						3	15	UH-14			3120	24
25	1581			HP-3 GROUND (Room 155)	15	1						26
27						2	20	GROUND REC.			180	28
29						3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2						40
41						3						42
								TOTAL PANEL LOAD			33278	
								Amps			98	

PANEL L (PHASE III)

ROOM 211

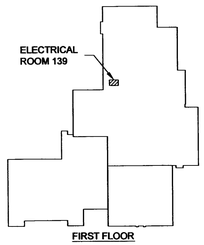
SERVICE: 120/208 V. 3P 4W
PANEL: 200 AMP MLO, SQUARE D TYPE QO CLASS 1130
TCL: 30,009

CIR. NO.	LOAD V.A.	L TS	REC	LOAD DESCRIPTION	AMP SIZE	PH	AMP SIZE	LOAD DESCRIPTION	REC	L TS	LOAD V.A.	CIR. NO.
1	1581			HP-3 ROOF (Room 207)	15	1						2
3						2	50	RTU-1			6864	4
5	2247			HP-4 ROOF (Room 210)	15	3						6
7						1						8
9	2247			HP-4 ROOF (Room 208)	15	2	50	RTU-2			6864	10
11						3						12
13	1581			HP-3 ROOF (Room 209)	15	1						14
15						2	50	RTU-3			6864	16
17	1581			HP-3 ROOF (Room 157)	15	3						18
19						1	20	ROOF REC.			180	20
21						2						22
23						3						24
25						1						26
27						2						28
29						3						30
31						1						32
33						2						34
35						3						36
37						1						38
39						2						40
41						3						42
								TOTAL PANEL LOAD			30009	
								Amps			125	



ELECTRICAL ROOM 139 LAYOUT

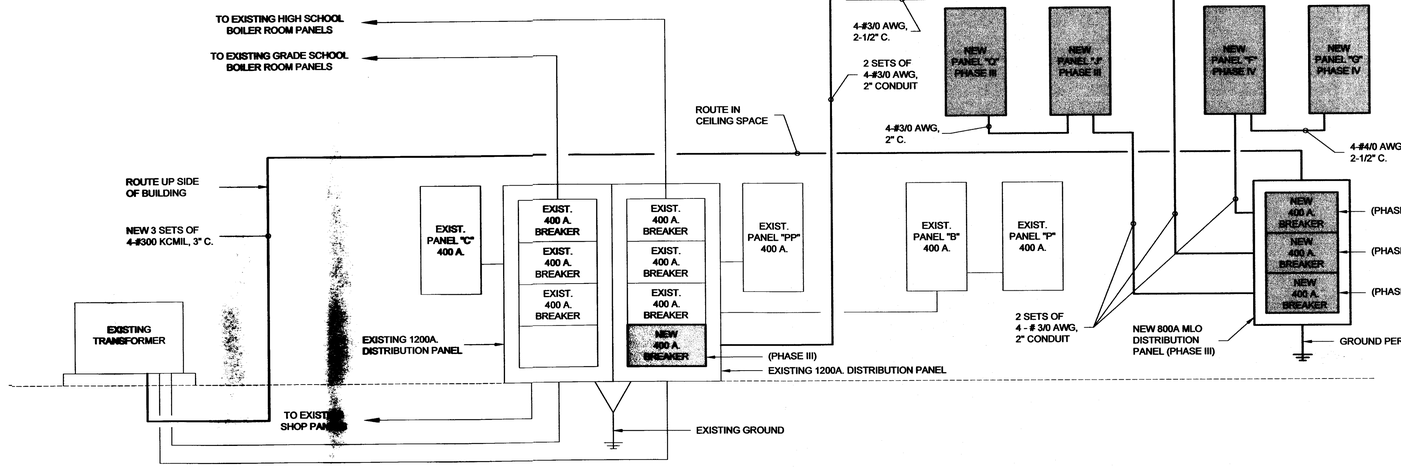
SCALE: 3/8" = 1'-0"



BUILDING KEY

NOT TO SCALE

NORTH



ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE III & IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DWG: 848-06ME-05
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-5

DATE: DECEMBER, 2006

CAMBRIDGE PUBLIC SCHOOLS

NEW HVAC PROJECT PHASE IV

CAMBRIDGE, NEBRASKA

SHEET INDEX

D-1 PHASE IV - ELEMENTARY DEMOLITION PLAN

ME-1 PHASE IV - ELEMENTARY MECHANICAL / ELECTRICAL PLAN

ME-2 MECHANICAL SCHEDULES AND DETAILS

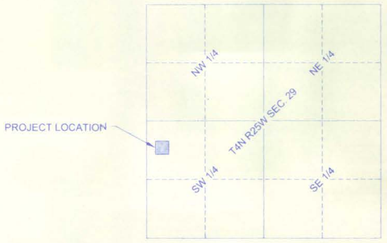
ME-3 ELECTRICAL PANELS AND ONE-LINE DIAGRAM

ALTERNATES

ALTERNATE #1 - BRICK INFILL INPLACE OF PLYWOOD AND INSULATION INFILL IN OUTSIDE AIR OPENINGS.

ALTERNATE #2 - EMI HEAT PUMP SPLIT SYSTEM FOR ELEMENTARY OFFICES

ALTERNATE #3 - REMOVAL OF BOILER AND AIR-HANDLER



LOCATION MAP

NO SCALE



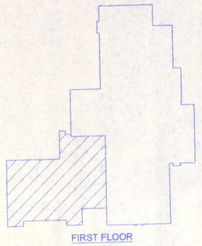
LOCATION MAP

NO SCALE

NORTH

©COPYRIGHT

This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.



BUILDING KEY

NOT TO SCALE

CEILING MATERIALS

1. EXISTING S.A.T. CEILING
2. EXISTING HARD CEILING
3. EXISTING PLASTER / LATH CEILING

FLOOR MATERIALS

1. EXISTING TILE FLOOR
2. EXISTING CONCRETE FLOOR
3. EXISTING CARPET
4. EXISTING PAINTED CONCRETE
5. EXISTING 1" x 1" GLASS TILE

WALL MATERIALS

1. EXISTING GLAZED C.M.U. WITH FACE BRICK
2. EXISTING PAINTED C.M.U.

PHASE IV - ELEMENTARY DEMOLITION PLAN

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

NORTH

SYMBOL LEGEND

- ITEM TO BE REMOVED
- R — REMOVE HEATING REGISTER
- REMOVE THERMOSTAT
- SUPPLY AIR REGISTER (U.I.P.)
- LIMITS OF CONSTRUCTION
- PIPING CAP
- (N.I.C.) — NOT IN CONTRACT

GENERAL NOTES:

1. REMOVE ALL ELECTRICAL WIRING FROM REMOVED EQUIPMENT TO EXISTING ELECTRICAL PANELS.
2. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.
3. CONTRACTOR SHALL REMOVE ALL REMOVED EQUIPMENT FROM SITE.

FLAG NOTES:

1. REMOVE EXISTING FAN COIL UNIT, ASSOCIATED PIPING & WIRING. PATCH FLOOR TO MATCH EXISTING FLOOR & COVERING. PATCH & PAINT WALL TO MATCH EXISTING WALL COLOR.
2. REMOVE EXISTING THERMOSTAT & ALL ASSOCIATED WIRING. PROVIDE BLANK ELECTRICAL COVER OVER WALL OPENING
3. EXISTING THERMOSTAT SHALL REMAIN (U.I.P.).
4. REMOVE EXISTING PLYWOOD, STYROFOAM & CAULKING. RETAIN INTAKE GRILLE FOR REINSTALLATION. SEE INTAKE WALL OPENING DETAIL ON SHEET ME-2 FOR MORE INFORMATION.
5. REMOVE RECESSED FAN COIL UNIT, ASSOCIATED PIPING, & WIRING. PATCH & PAINT CMU WALL TO MATCH EXISTING. PATCH FLOOR TO MATCH EXISTING FLOOR & COVERING.
6. EXISTING ROOFTOP UNIT, DUCTWORK, AND DIFFUSERS SHALL REMAIN.
7. REMOVE CHILLER, PIPING, WIRING, AND FENCE. SEAL WATER TIGHT ALL PIPING PENETRATIONS INTO BUILDING.
8. REMOVE DUCTWORK TRANSITION FROM EXISTING LOUVER TO 38" x 16" DUCTWORK. COVER LOUVER ON MECHANICAL ROOM SIDE WITH 3/4" PLYWOOD. CAULK ALL EDGES AND SEAMS AIR TIGHT.
9. ALL EXISTING CIRCUIT BREAKERS THAT ARE CONNECTED TO EXISTING EQUIPMENT BEING REMOVED SHALL ALSO BE REMOVED. (TYPICAL ALL ELECTRICAL PANELS).
10. DISCONNECT ELECTRICAL FROM THIS PIECE OF EQUIPMENT. REMOVE IT'S WIRING FROM POWER AND IT'S CIRCUIT BREAKER IN ELEC. PANEL.
11. DISCONNECT GAS LINE FROM BOILER. CAP GAS PIPE ABOVE BOILER.
12. REMOVE EXISTING UNIT VENTILATOR MOUNTED ON CEILING, CONDENSATE PIPE, WIRING, & ALL ASSOCIATED DUCTWORK. REPAIR T-GRID & INSTALL NEW TILE IN EXISTING S.A.T. CEILING.
13. REMOVE FRESH AIR DUCTWORK, CURB, & ROOF HOOD. PATCH 12" x 8" ROOF OPENING. SEE SPECIFICATIONS FOR ROOF INFORMATION.
14. REPAIR FRESH AIR OPENING SIMILAR TO INTAKE WALL OPENING DETAIL EXCEPT DO NOT INSTALL THE INSULATION AND PLYWOOD.
15. INFILL DUCTWORK OPENING IN CMU WALL ON STORAGE ROOM SIDE TO MATCH EXISTING.
16. REMOVE EXISTING VENTILATION UNIT, ASSOC.. DUCTWORK, PIPING, & WIRING. PATCH FLOOR HOLES FLUSH WITH EXISTING FLOOR.
17. EXISTING CEILING HUNG VENTILATION UNIT, SHALL BE ABANDONED IN PLACE.
18. REMOVE EXISTING PLYWOOD, STYROFOAM & CAULKING. RETAIN INTAKE GRILLE FOR REINSTALLATION. INSTALL NEW 1 1/2" RIGID INSULATION, 3/4" GRADE "B" PLYWOOD AND CAULK AROUND EDGES. PAINT PLYWOOD TO MATCH BRICK COLOR REINSTALL GRILLE..
19. REMOVE DUCTWORK. (ALTERNATE #3)
20. REMOVE BOILER IN ITS ENTIRETY, AIR TANK AND ALL VISIBLE HOT WATER LINE IN BOILER ROOM. (ALTERNATE #3)
21. REMOVE EQUIPMENT, ASSOCIATED WIRING AND PIPING VISIBLE IN MECHANICAL ROOM. (ALTERNATE #3)
22. REMOVE GRAVITY VENTILATOR AND ROOF CURB. SEE SHEET M-1 FOR NEW EXHAUST FAN. (PATCH ROOF AS REQUIRED)
23. REMOVE BOILER CONTROLS OFF OF WALL FOR NEW 400 AMP DISCONNECT.

PHASE IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901



DWG: 848-08D-03
DRAWN: JEREMY SHAW
CHECKED
REVISIONS

D-1

DATE: NOVEMBER, 2007

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

SYMBOL LEGEND

Ω	DUPLEX CONVENIENCE OUTLET
T	THERMOSTAT @ +5'-0" A.F.F.
T	TIMER @ +5'-0" A.F.F.
	CONNECT TO EQUIPMENT
1,3	INDICATES HOME RUN TO CIRCUITS 1 AND 3
	DISCONNECT SWITCH, SIZED TO LOAD
	NEW SUPPLY AIR DIFFUSER
	NEW RETURN AIR GRILLE
	VOLUME DAMPER
GAS	NEW GAS LINE, SIZE AS NOTED
	LIMITS OF CONSTRUCTION
(N.I.C.)	NOT IN CONTRACT

GENERAL NOTES

1. IF ANY S.A.T. CEILING IS DAMAGED DURING CONSTRUCTION, REPLACE DAMAGED TILE AND T-GRID TO MATCH EXISTING.
2. SEE SHEET D-3 FOR EXISTING FLOOR, CEILING, AND WALL MATERIAL NOTES.
3. NEW PANELS SHALL BE INSTALLED PER LATEST ADDITION OF THE N.E.C.
4. COORDINATE ROUTING OF REFRIGERANT, CONDENSATE LINES WITH NEW ELECTRICAL PANELS.
5. ALL CONDENSING UNITS (CU), HEAT PUMPS (HP), AND ERV UNITS SHOWN AS DASHED ARE LOCATED ON ROOF.
6. DUCT SIZES SHOWN ARE NOMINAL. DUCT SIZES MAY BE CHANGED SO LONG AS EQUIVALENT AREA IS MAINTAINED. MAXIMUM VELOCITY IN BRANCH DUCT SHALL BE 750 FPM, AND 1000 FPM IN TRUNK RUNS.
7. INSULATE ALL HVAC DUCTWORK PER SPECIFICATIONS.
8. SEE SHEET ME-2 FOR ROOF HEAT PUMP DETAILS.
9. MOUNT ALL WE UNITS A MINIMUM OF 3" FROM SAT CEILING.
10. ROUTE THERMOSTAT CONTROL WIRING IN PP1 PREMISETRAK BY HUBBEL WIRING SYSTEMS. TRACK SHALL BE SCREWED TO WALL.
11. PROVIDE MITSUBISHI ELECTRIC LINE-HIDE LINE SET COVER SYSTEM ON ALL VISIBLE REFRIGERANT LINES.

FLAG NOTES

1. REMOVE (1) 16" x 8" CMU BLOCK FOR RETURN AIR. BLOCK SHALL BE REMOVED BY A HAMMER, PUNCH AND CHISEL.
2. REMOVE CMU FOR RUNNING DUCTWORK WITH A HAMMER, PUNCH AND CHISEL.
3. CENTER WALL EVAPORATOR ON GRILLE OPENINGS IN WALL.
4. ROUTE CONDENSATE ABOVE CEILING.
5. CONNECT NEW 1-1/4" GAS TO EXISTING GAS MAIN ON ROOF. VERIFY LOCATION AND SIZE OF EXISTING GAS MAIN.
6. GFI / WP OUTLET LOCATED ON ROOF.
7. HP-2 TO (2) WE-2 IN ROOM 120, 5th GRADE.
8. HP-2 TO (2) WE-2 IN ROOM 119, COMPUTERS.
9. HP-2 TO (2) WE-2 IN ROOM 118, LIBRARY.
10. HP-2 TO (2) WE-2 IN ROOM 117, 4th GRADE.
11. HP-2 TO (2) WE-2 IN ROOM 116, 6th GRADE.
12. HP-2 TO (2) WE-2 IN ROOM 133, MEDIA CENTER.
13. HP-1 TO WE-1 IN ROOM 134, LIBRARIAN.
14. NOT USED
15. HP-2 TO (2) WE-2 IN ROOM 101, KINDERGARTEN.
16. HP-2 TO (2) WE-2 IN ROOM 102, 1st GRADE.
17. HP-2 TO (2) WE-2 IN ROOM 103, 2nd GRADE.
18. HP-2 TO (2) WE-2 IN ROOM 104, CLASSROOM.
19. HP-2 TO (2) WE-2 IN ROOM 105, CLASSROOM.
20. 3 - # 10 AWG, 1/2" CONDUIT.

PHASE IV - ELEMENTARY MECHANICAL / ELECTRICAL PLAN

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

NORTH

BUILDING KEY

NOT TO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by this copyright law.

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

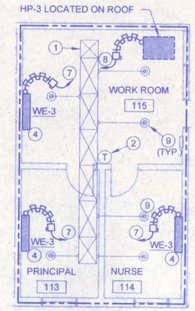
DWG: 848-06ME-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-1

DATE: NOVEMBER, 2007

FLAG NOTES ALTERNATE #2

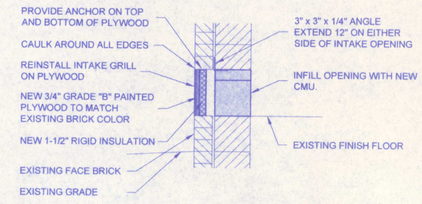
1. REMOVE EXISTING DUCTWORK, DIFFUSERS, ROOFTOP UNIT AND ALL ASSOCIATED WIRING. PATCH ROOF OPENING.
2. REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING.COVER WALL OPENING WITH BLANK WALL COVER.
3. PROVIDE NEW CEILING TILES AT ALL REMOVED DIFFUSER AND GRILL LOCATION.
4. LOCATED UNITS AT 6'-0". ADJUST UNIT AS REQUIRED.
5. ROUTE CONDENSATE TO KINDERGARTEN RESTROOM VENT.
6. ROUTE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS TO HP-3 ON ROOF.
7. PROVIDE NEW 20 AMP CIRCUIT BREAKER IN PANEL I.
8. PROVIDE NEW 20 AMP CIRCUIT BREAKER IN PANEL H.
9. PROVIDE NEW CEILING TILE AT LOCATION OF THE REMOVED DIFFUSERS AND GRILLES. (TYP 7)



ELEMENTARY OFFICES ALTERNATE #2 PLAN

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

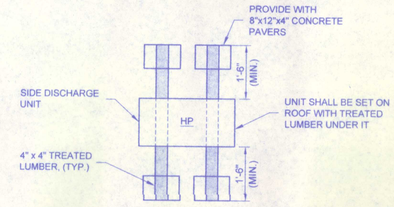
NORTH



ALTERNATE #1: INPLACE OF PLYWOOD AND INSULATION INFILL. PROVED A BRICK INFILL WITH MATCHING FACE BRICK.

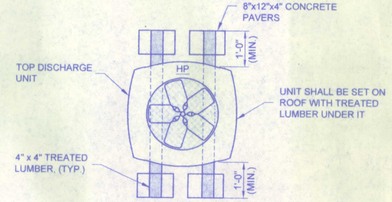
WD-1 WALL OPENING DETAIL

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



ROOF HEAT PUMP DETAIL

NO SCALE



ROOF HEAT PUMP DETAIL

NO SCALE

HEATER SCHEDULE

MARK	DESCRIPTION
UH-1	BERKO MODEL QFG1512T2M FAN FORCED HEATER 1500 WATTS, 120V. 1Ø, 12.5 AMPS. PROVIDE WITH BUILT-IN THERMOSTAT AND SURFACE MOUNT FRAME. COLOR SHALL BE WHITE
UH-2	SAME AS UH-1
UH-3	SAME AS UH-1
UH-4	SAME AS UH-1
UH-5	SAME AS UH-1
UH-6	SAME AS UH-1
UH-7	BERKO MODEL RCC6008C COVE HEATER 600 WATTS, 208V. 1Ø, 2.9 AMPS. PROVIDE WITH THERMOSTAT. COLOR SHALL BE OFF-WHITE.
UH-8	BERKO MODEL RCC18008C COVE HEATER 1800 WATTS, 208V, 1Ø, 8.7 AMPS. PROVIDE WITH THERMOSTAT AND THERMOSTAT GUARD. COLOR SHALL BE OFF-WHITE.
UH-9	SAME AS UH-8
UH-10	BERKO MODEL HUH-524TA UNIT HEATER. 3,750 WATTS, 208V. 1 PHASE, 18.0 AMPS. BUILT-IN THERMOSTAT. PROVIDE WITH DISCONNECT AND WALL MOUNTING BRACKETS.
UH-11	NOT USED
UH-12	BERKO CUH935, 5 KW CABINET UNIT HEATER. UNIT SHALL BE SURFACE MOUNT, FRONT INLET AND FRONT DISCHARGE AIR CONFIGURATION. PROVIDE WITH TWO STAGE BUILT-IN THERMOSTAT, ON-OFF SWITCH, NIGHT SETBACK RELAY AND DISCONNECT SWITCH. 208V, 3-PHASE, 15 AMP.
UH-13	SAME AS UH-12

EVAPORATOR UNIT SCHEDULE

MARK	DESCRIPTION
WE-1	EMI MODEL WLHA09 HIGH WALL EVAPORATOR. PROVIDE WITH 3 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 13.4 AMPS, 16.7 MCA.
WE-2	EMI MODEL WLHA24 HIGH WALL EVAPORATOR. PROVIDE WITH 5 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP. 208V, 1 PH, 60 Hz, 22.3 AMPS, 27.9 MCA.
WE-3 (ALT. #2)	EMI MODEL WLHA09 HIGH WALL EVAPORATOR. PROVIDE WITH 3 KW SUPPLEMENTAL HEAT, CONDENSATE PUMP, REMOTE WALL THERMOSTAT. 208V, 1 PH, 60 Hz, 13.4 AMPS, 16.7 MCA.

ERV UNIT SCHEDULE

MARK	DESCRIPTION
ERV-1	RENEWAIRE MODEL EV450RT ROOFTOP ENERGY RECOVERY VENTILATOR. 450 CFM AT 0.5 ESP 208V, 3 PH. 1.7 FLA. PROVIDE WITH ROOF CURB AND MODEL TC7D DIGITAL TIME CLOCK WALL MOUNT.
ERV-2	RENEWAIRE MODEL EV450RT ROOFTOP ENERGY RECOVERY VENTILATOR. 240 CFM AT 1.0 ESP 208V, 3 PH, 1.7 FLA. PROVIDE WITH ROOF CURB AND MODEL TC7D DIGITAL TIME CLOCK WALL MOUNT.
ERV-3	SAME AS ERV-1
ERV-4	SAME AS ERV-2

EXHAUST FAN SCHEDULE

MARK	DESCRIPTION
EF-1	ACME MODEL PRN080-1 DIRECT DRIVE CENTRIFUGAL EXHAUSTER. 110 CFM @ 0.25 SP. 115V, 1 PHASE, 60 Hz, 1/10 HP. PROVIDE WITH ROOF CURB. CONNECT TO EXISTING REGISTER IN KITCHEN STORAGE. PROVIDE WITH

ROOFTOP UNIT SCHEDULE

MARK	DESCRIPTION
RT-1	YORK MODEL D2EG060 MID. EFFICIENCY BELT DRIVE ROOFTOP UNIT WITH NATURAL GAS, BOTTOM DISCHARGE, ECONOMIZER, DISCONNECT, POWERED CONVENIENCE OUTLET, SMOKE DETECTOR IN SUPPLY AND RETURN AIR, HAIL GUARD, BAROMETRIC RELIEF DAMPER, AND 14" ROOF CURB. COOLING - 11.0 SEER, 55.6 MBH TOTAL CAPACITY, 40.8 MBH SENSIBLE CAPACITY AT 80°F/67°F/105°F. HEATING - 125 MBH INPUT, 99 MBH OUTPUT, 80% AFUE. 1800 CFM AT 0.62 SP, 208V, 3Ø, 60 Hz., 32.4 MCA. PROVIDE COMPLETE WITH 7-DAY PROGRAMMABLE THERMOSTAT HONEYWELL MODEL T7350 AND UNIVERSAL VERSAGUARD.
RT-2	SAME AS RT-1
NOTE:	THE ROOFTOP UNITS SHALL HAVE FACTORY START UP.

DIFFUSERS, REGISTERS & GRILLES

MARK	DESCRIPTION
CD-1	J & J REGISTER MODEL 1500 STEEL STEP-DOWN DIFFUSER. COLOR SHALL BE WHITE. PROVIDE WITH MODEL R42 RADIAL-BLADE DAMPER. SEE DRAWING FOR NECK SIZES.
CD-2	ROOFTOP SYSTEMS MODEL 01-510-18 CONCENTRIC DIFFUSER SYSTEM. COLOR SHALL BE WHITE.
R-1	J & J REGISTER MODEL 1274 STEEL PERFORATED RETURN TURNED-UP PANEL ONLY. 24"x24" LAY-IN CEILING. COLOR SHALL BE WHITE.

CONDENSING UNIT SCHEDULE

MARK	DESCRIPTION
HP-1	EMI MODEL S1HD9 SINGLE ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 9,000 BTUH COOLING, 8,200 BTUH HEATING, 13.0 SEER, 12.0 EER, 3.6 COP. PROVIDE WITH LOW AMBIENT CONTROLS TO 0°F. 208V, 1 PH, 60 Hz, 4.2 AMPS, 5.1 MCA.
HP-2	EMI MODEL T2HA9400 MULIT-ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 48,000 BTUH COOLING, 13.0 SEER AND 40,500 BTUH HEATING, 3.2 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 19.4 AMPS, 21.6 MCA.
HP-3 (ALT. #2)	EMI MODEL T3HA9990 MULIT-ZONE HEAT PUMP UNIT. UNIT SHALL PROVIDE 27,800 BTUH COOLING, 13.0 SEER AND 24,000 BTUH HEATING, 3.3 COP. PROVIDE WITH LOW AMBIENT CONTROLS. 208V, 1 PH, 60 Hz, 12.0 AMPS, 13.0 MCA.

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of constructed use are prohibited by the copyright law.

PHASE IV HVAC PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

DARIC A. WOLFORD E-6962 REGISTERED PROFESSIONAL ENGINEER STATE OF NEBRASKA

DWG: 843-06ME-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-2

DATE: NOVEMBER, 2007

TOTAL PANEL LOAD			45461
Amps			139

**100% OF THE NAMEPLATE RATINGS FOR THE HEATPUMP COMPRESSORS AND 65% OF THE SUPPLEMENTAL ELECTRIC HEAT FOR THE SUPPLEMENTAL ELECTRIC HEAT IS CACULATED. NEC 220.82 (C)(4).

TOTAL PANEL LOAD			36544
Amps			118

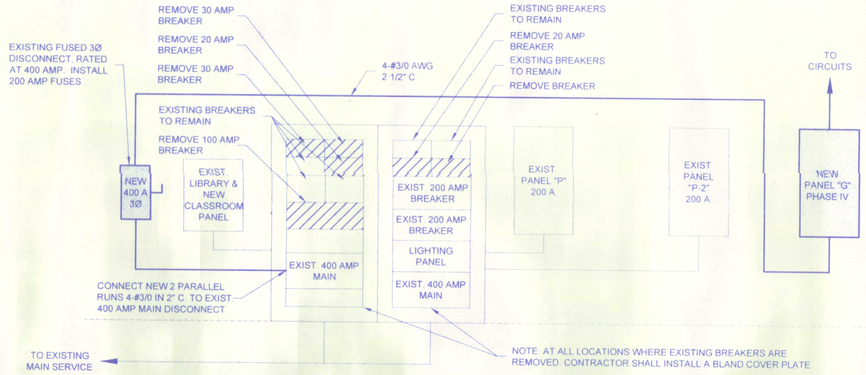
**100% OF THE NAMEPLATE RATINGS FOR THE HEATPUMP COMPRESSORS AND 65% OF THE SUPPLEMENTAL ELECTRIC HEAT FOR THE SUPPLEMENTAL ELECTRIC HEAT IS CACULATED. NEC 220.82 (C)(4).

TOTAL PANEL LOAD			94024
Amps			278

**100% OF THE NAMEPLATE RATINGS FOR THE HEATPUMP COMPRESSORS AND 65% OF THE SUPPLEMENTAL ELECTRIC HEAT FOR THE SUPPLEMENTAL ELECTRIC HEAT IS CACULATED. NEC 220.82 (C)(4).

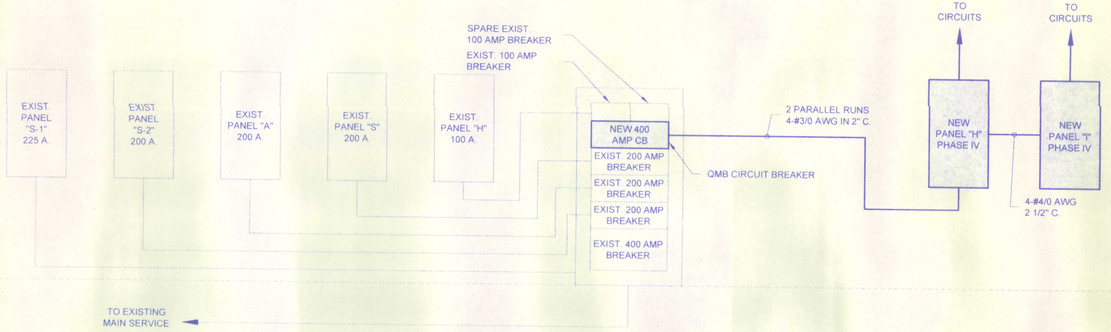
41		3	42
TOTAL PANEL LOAD			49589
Amps			138

**100% OF THE NAMEPLATE RATINGS FOR THE HEATPUMP COMPRESSORS AND 65% OF THE SUPPLEMENTAL ELECTRIC HEAT FOR THE SUPPLEMENTAL ELECTRIC HEAT IS CACULATED. NEC 220.82 (C)(4).



ELEMENTARY ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

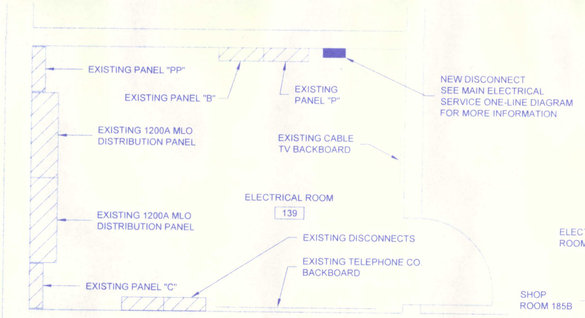


SHOP ROOM 185B ELECTRICAL ONE-LINE DIAGRAM

NO SCALE

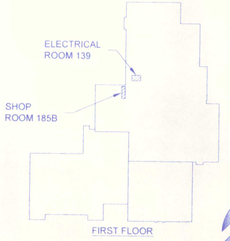
CONTRACTORS OPTION

CONDUIT SIZES SHOWN ARE MINIMUM SIZES. CONTRACTOR MAY UP SIZE CONDUIT FOR EASE OF INSTALLATION.



ELECTRICAL ROOM 139 LAYOUT

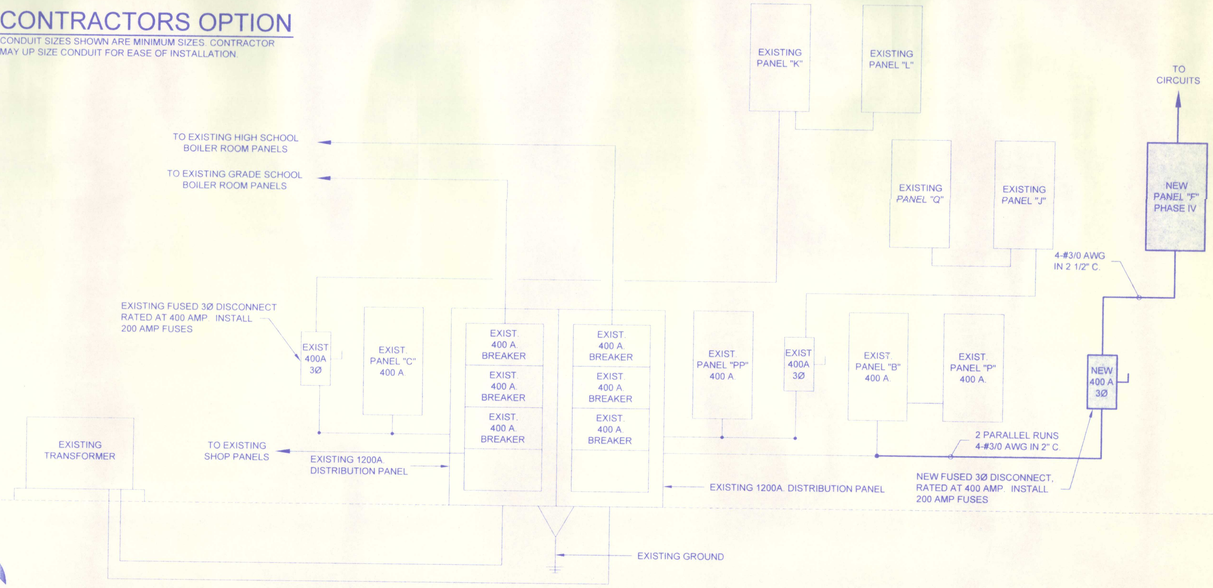
SCALE: 3/8" = 1'-0"



BUILDING KEY

NOT TO SCALE

NORTH



MAIN ELECTRICAL SERVICE ONE-LINE DIAGRAM

NO SCALE

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

PHASE IV HVAC
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901



DWG: 848-06ME-01
DRAWN: JEREMY SHAW
CHECKED:
REVISIONS

ME-3

DATE: NOVEMBER, 2007

CAMBRIDGE PUBLIC SCHOOLS

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE, NEBRASKA

CODE DATA	
-APPLICABLE CODES	IBC 2009 STATE OF NEBRASKA ACCESSIBILITY GUIDELINE NFPA 101 IMC 2009 NEC 2014
-CONSTRUCTION TYPE -OCCUPANCY CLASSIFICATION	TYPE VB UTILITY
-ALLOWABLE AREA -ACTUAL BUILDING AREA	5,500 SQ. FT. 210 SQ. FT.
-NUMBER OF OCCUPANTS	ONE
-NUMBER OF EXITS REQUIRED -NUMBER OF EXITS PROVIDED	ONE ONE
-AUTOMATIC FIRE EXTINGUISHING SYSTEM -AUTOMATIC FIRE DETECTION ALARM SYSTEM	NOT REQUIRED NOT REQUIRED

PROJECT TIMING SEQUENCE

THE LOCKER ROOMS NEED TO BE OPERATIONAL THE WEEK OF AUGUST 11, 2014, EITHER BY THE NEW WATER HEATING SYSTEM OR THE EXISTING SYSTEM.

THE SCHOOL WOULD LIKE TO THE HAVE THE CONTRACTOR KEEP THE EXISTING WATER HEATING SYSTEM OPERATIONAL UNTIL THE NEW SYSTEM IS READY TO SUPPLY THE HOT WATER TO THE LOCKER ROOMS WITHOUT ANY DISRUPTIONS. IF DISRUPTIONS TO THE HOT WATER ARE REQUIRED THE CONTRACTOR SHALL HAVE THE DISRUPTIONS TAKE PLACE AFTER THE LAST FOOTBALL AND VOLLEYBALL PRACTICES FOR THE DAY OR OVER THE WEEKENDS. BUT IF DISRUPTIONS NEED TO TAKE PLACE AFTER PRACTICES THE CONTRACTOR WILL NEED TO HAVE THE HOT WATER WORKING BEFORE THE NEXT PRACTICE.

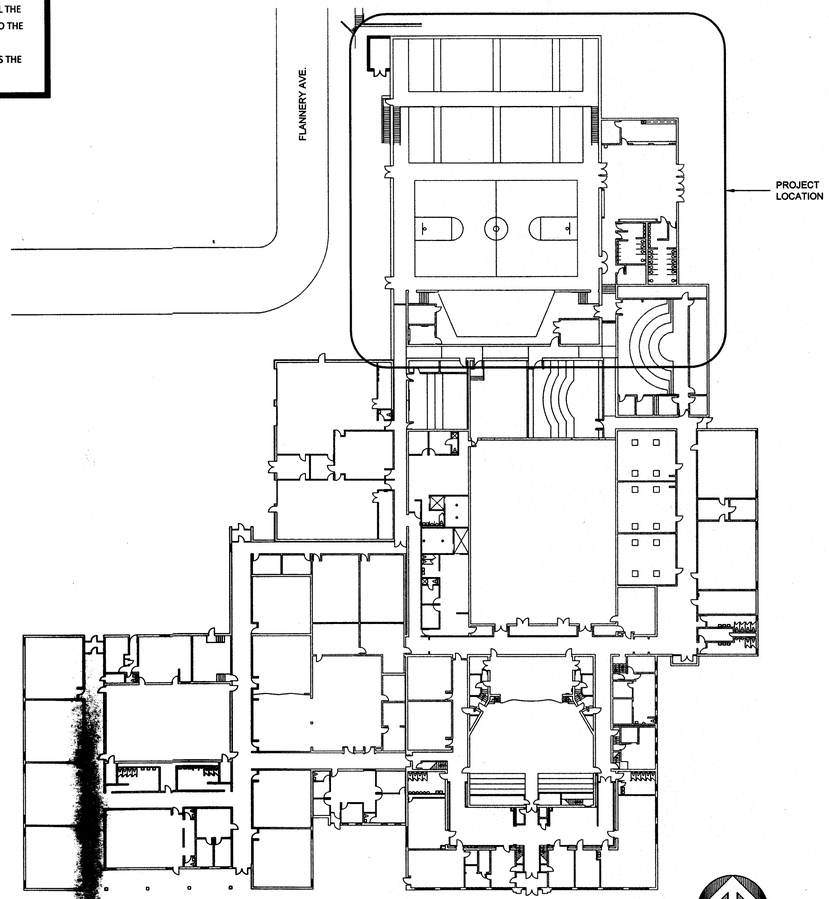
SHEET INDEX

A-1 FLOOR PLAN & BUILDING SECTIONS / DETAILS
A-2 BUILDING ELEVATIONS & WALL SECTIONS
S-1 FOUNDATION PLAN & ROOF FRAMING PLAN
M-1 OVERALL PLUMBING PLAN
M-2 PLUMBING PLAN ROOM DETAILS
M-3 MECHANICAL PLAN & DETAILS
E-1 ELECTRICAL PLAN & DETAILS



NORTH

OVERALL LOCATION PLAN
NO SCALE



OVERALL LOCATION PLAN
NO SCALE

NORTH

I, David L. Wilson, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing.
If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

Seal of Coordinating Professional:

DAVID L. WILSON A - 1500 REGISTERED ARCHITECT STATE OF NEBRASKA

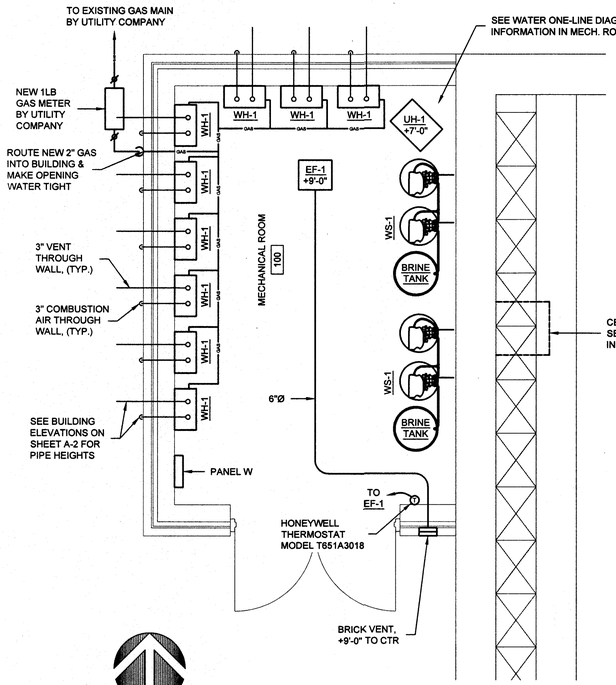
PROFESSIONAL ENGINEER APRIL D. HOCK E - 15102 STATE OF NEBRASKA

DWG: 721-13 COVER
DRAWN: J. SHAW
CHECKED:
REVISIONS

CVR

DATE: MARCH, 2014

J:\721-13 Cambridge Schools\Wk Heating Sys\Drawings\721-13 Cover.dwg, 4/28/2014 1:59:42 PM



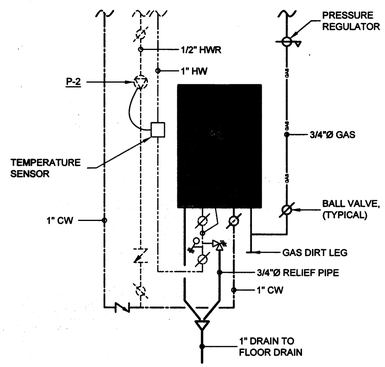
NORTH

MECHANICAL PLAN

SCALE: 3/8" = 1'-0"

WATER HEATER VENTING NOTES:

1. CONTRACTORS OPTION: CONTRACTOR MAY USE FLAT HORIZONTAL TERMINATION KIT FOR ALL WATER HEATERS.
2. INSTALL VENTS AND COMBUSTION AIR PER MANUFACTURERS RECOMMENDATIONS.



WH-2 ONE-LINE DIAGRAM

NO SCALE

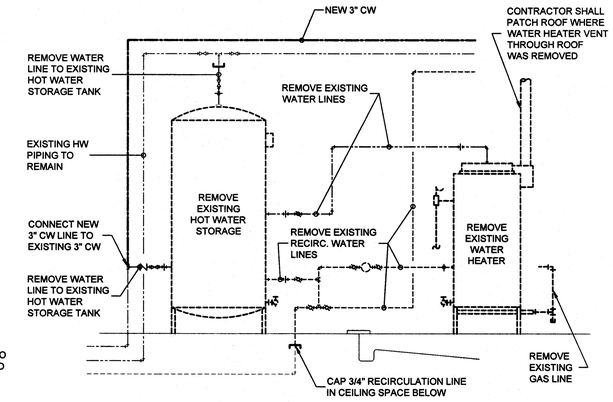
PLUMBING FIXTURE SCHEDULE

ITEM No.	DESCRIPTION	MFG	MODEL No.	WASTE	VENT	CW	HW	DESCRIPTION
HB-2	FREEZELESS WALL HYDRANT	WOODFORD	19	-	-	3/4"	-	CHROME PLATED
FD-1	FLOOR DRAIN	ZURN	Z415B	2"				(1), WITH NICKEL TOP
FD-2	FLOOR DRAIN	ZURN	FD2250	1 1/2"				

NOTES:
(1) FLOOR DRAINS IN NEW CONCRETE FLOORS SHALL BE RECESSED INTO THE FINISHED FLOOR A MAXIMUM OF 1/8" OR LESS.

APPROVED SUBSTITUTE EQUIPMENT SCHEDULE

WH-1 & WH-2	RINNAI MODEL RU98 I/E NATURAL GAS WATER HEATER. PROVIDE WITH WALL TERMINATION KITS FOR EXHAUST AND VENT. PROVIDE WITH MULTI UNIT CONTROLLER KITS, CABLE TO CONNECT WATER HEATERS, CABLE TO CONNECT MSB-M CONTROL UNITS. TOTAL MBH: 199,000



ELEV A

EXISTING WATER HEATER DETAIL

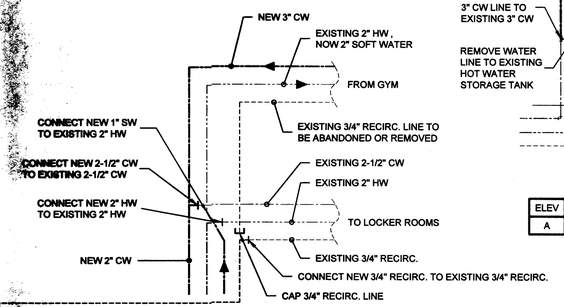
SCALE: 3/16" = 1'-0"

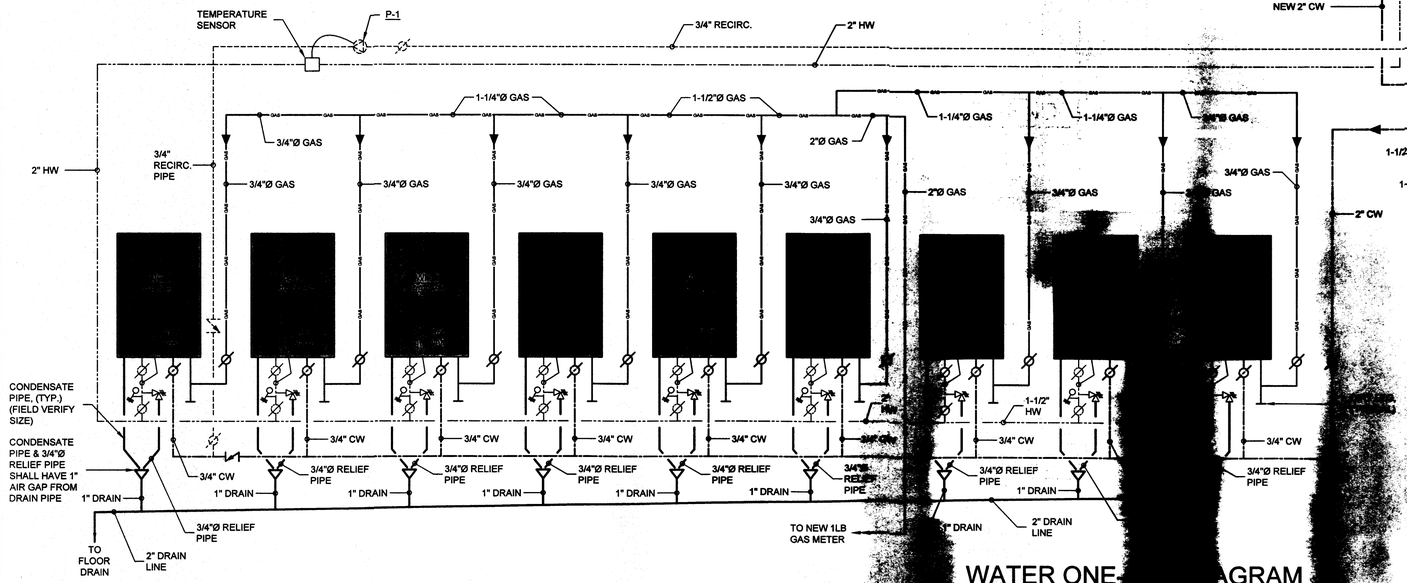
WATER LEGEND

BALL VALVE	
RELIEF PIPE (SIZE TO WATER HEATER BTUH)	
BACK FLOW PREVENTER	
3/4" HOT WATER DRAIN VALVE	

WATER LINE LEGEND

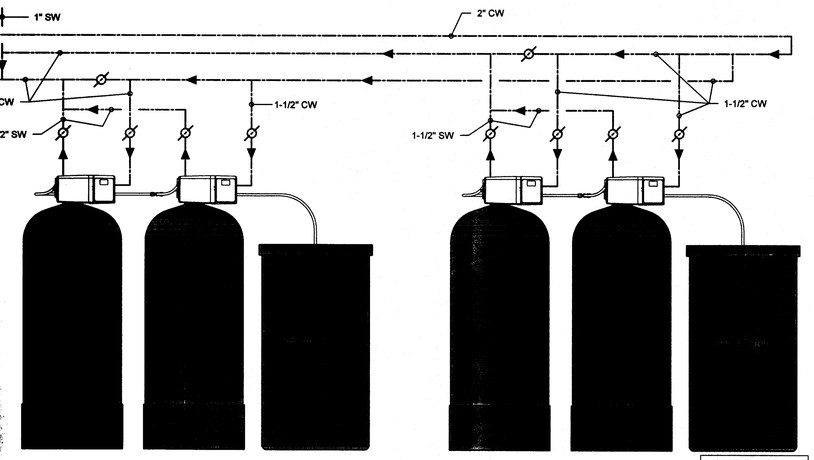
EXISTING COLD WATER SUPPLY	
EXISTING HOT WATER SUPPLY	
EXISTING HOT WATER RETURN	
NEW COLD WATER SUPPLY	
NEW HOT WATER SUPPLY	
NEW HOT WATER RECIRCULATION	
COLD WATER	CW
HOT WATER	HW
HOT WATER RECIRCULATION	HWR
SOFT WATER	SW





WATER ONE-LINE DIAGRAM

NO SCALE



I, David L. Wilson, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing. If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

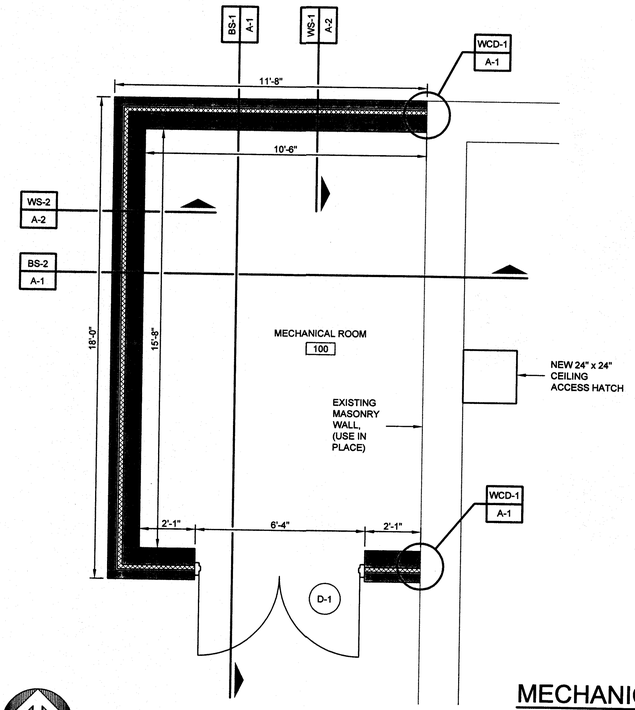
Seal of Coordinating Professional:

DWG: 848-14 M-01
DRAWN: J. SHAW
CHECKED:
REVISIONS

M-3

DATE: MARCH, 2014

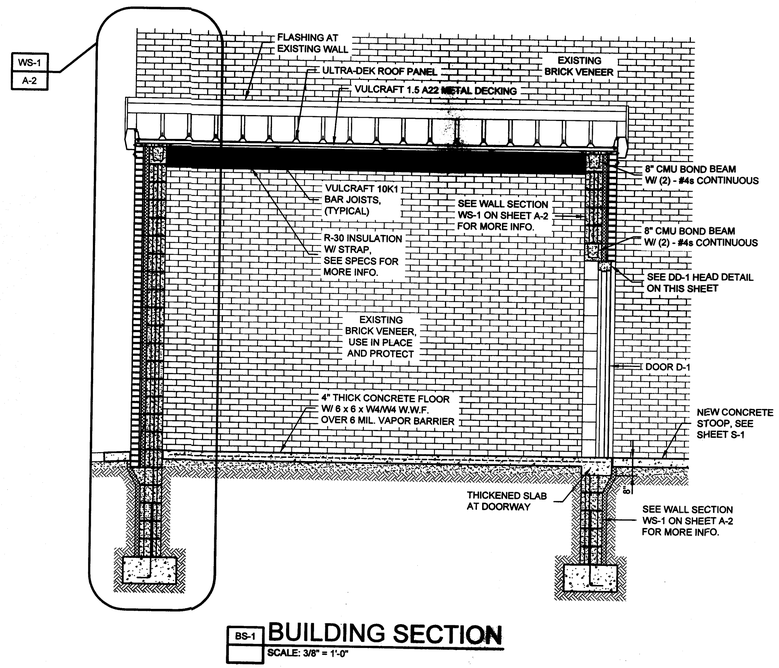
J:\13 13 Cambridge Schools WH Heating Sys\Drawings\13 13 M-01.dwg, 4/29/2014 2:27:33 PM



ENLARGED FLOOR PLAN

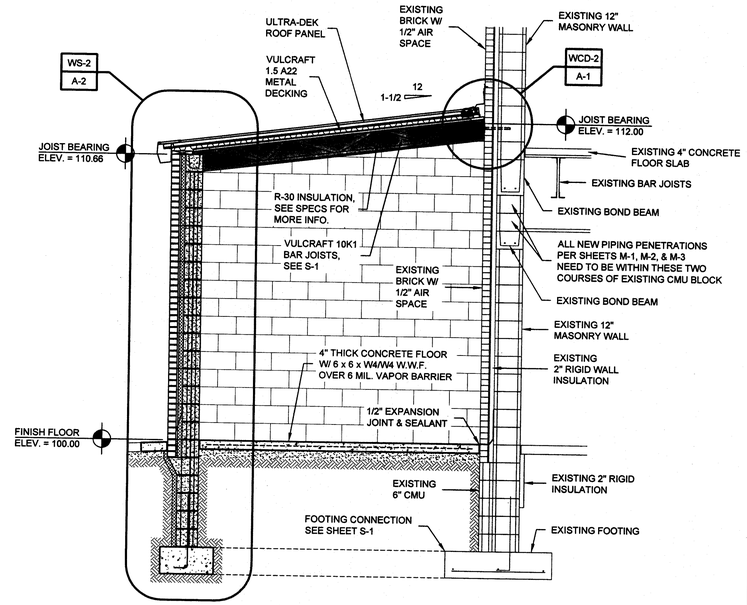
SCALE: 3/8" = 1'-0"

NORTH



BS-1 **BUILDING SECTION**

SCALE: 3/8" = 1'-0"



BS-2 **BUILDING SECTION**

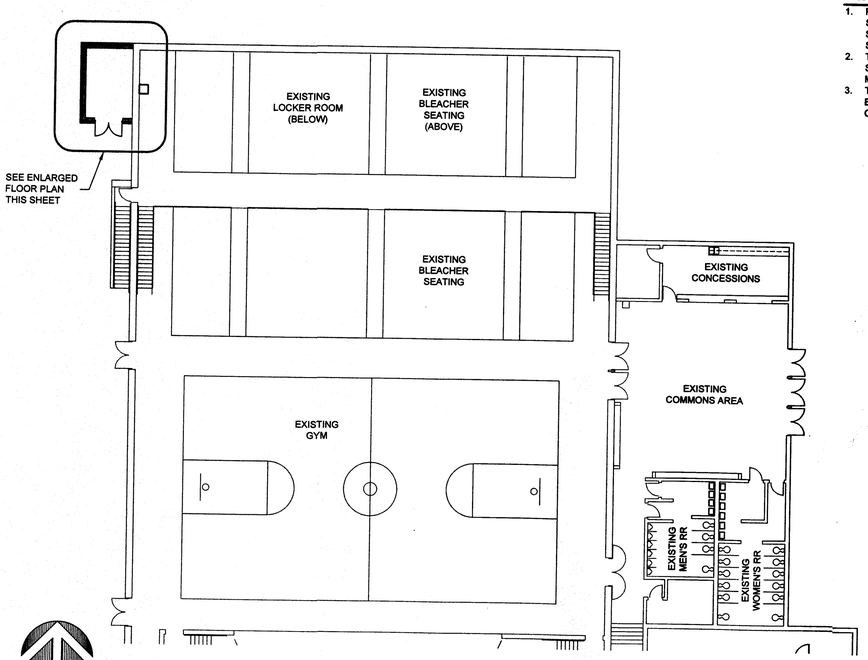
SCALE: 3/8" = 1'-0"

MECHANICAL ROOM 100 NOTES:

1. INTERIOR CMU SHALL BE PAINTED PER SECTION 09900 PAINTING.
2. INTERIOR CONCRETE FLOOR SHALL BE SEALED PER SECTION 09910 CONCRETE FLOOR SEALERS.
3. DOOR D-1 HOLLOW METAL DOOR AND FRAME ASSEMBLY SHALL BE PAINTED PER SECTION 09900 PAINTING.

CEILING ACCESS HATCH NOTES:

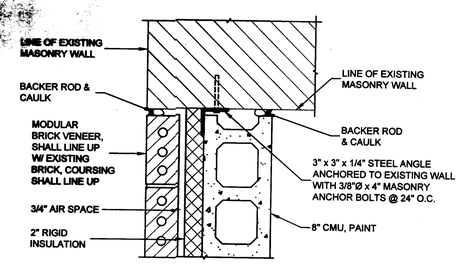
1. PROVIDE ELMDOR DW-CL 24" x 24", 16 GAUGE STEEL ACCESS HATCH. RETRO FIT TO EXISTING SUSPENDED SHEETROCK CEILING AT LOCATION SHOWN PER SHEET M-3.
2. TIE NEW FRAME INTO EXISTING SUSPENSION SYSTEM. TIE BACK INTO EXISTING BAR JOIST AND METAL DECK SYSTEM ABOVE.
3. THE NEW HATCH AND SHEETROCK REPAIR SHALL BE PAINTED TO MATH THE EXISTING SHEETROCK CEILING.



NORTH

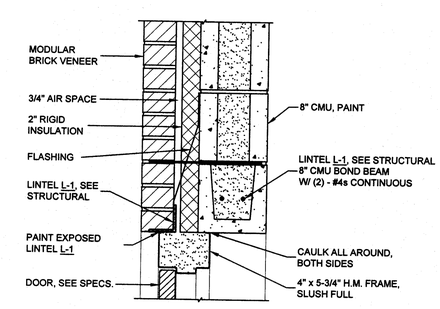
LOCATION PLAN

SCALE: 1/16" = 1'-0"



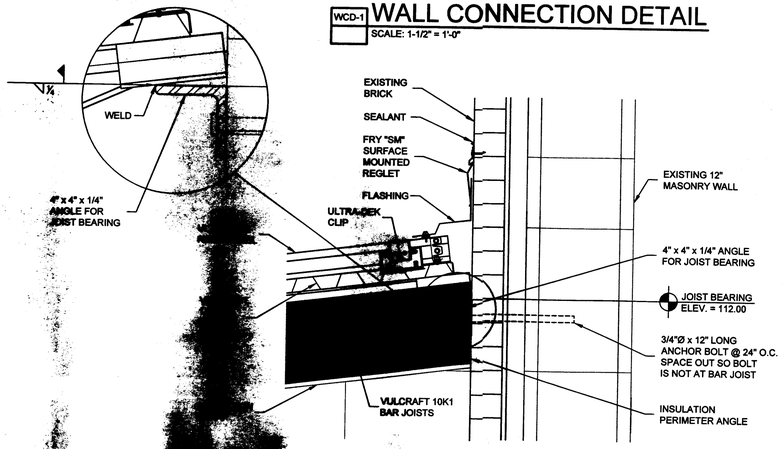
WCD-1 **WALL CONNECTION DETAIL**

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



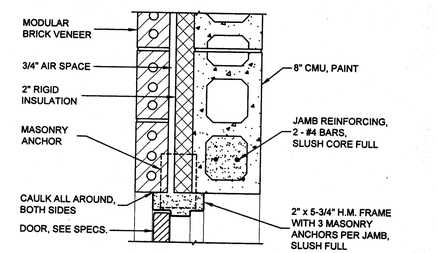
DD-1 **HEAD DETAIL**

SCALE: 1 1/2" = 1'-0"
DOORS: D-1



WCD-2 **WALL CONNECTION DETAIL**

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



DD-2 **JAMB DETAIL**

SCALE: 1 1/2" = 1'-0"
DOORS: D-1

I, Greg A. Wolford, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing.
If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

Seal of Coordinating Professional

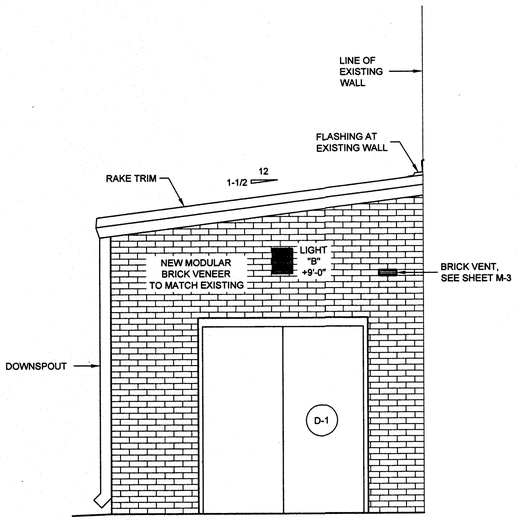
DAVID L. WILSON
A-1500
REGISTERED
PROFESSIONAL
ENGINEER
STATE OF NEBRASKA

DWG:
DRAWN: J. SHAW
CHECKED:
REVISIONS

A-1

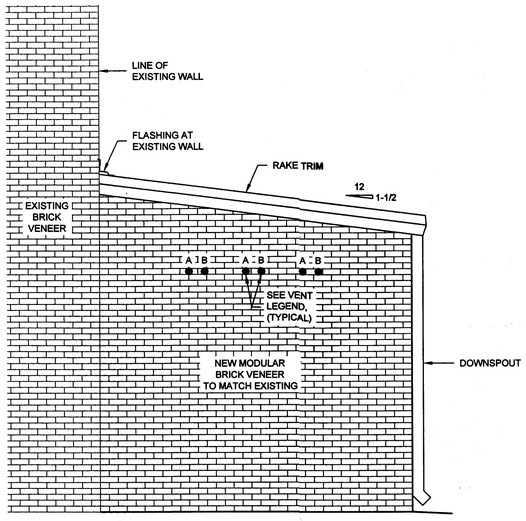
DATE: MARCH, 2014

J:\12\13 Cambridge Schools HW Heating Sys\Drawings\12\13 A-01.dwg, 4/29/2014 1:53:41 PM



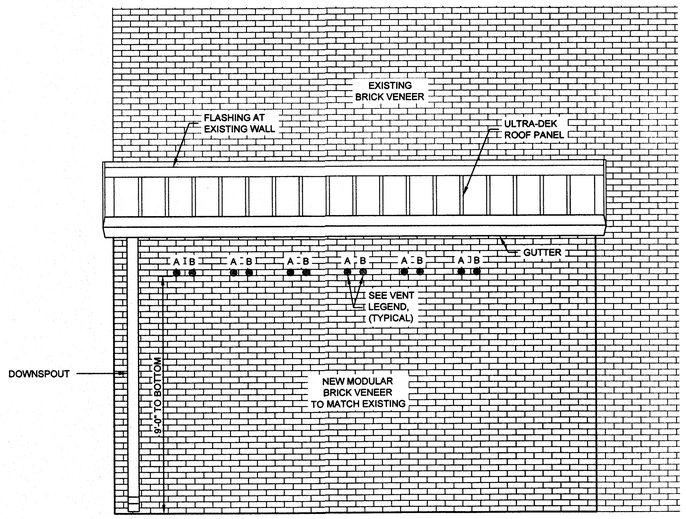
SOUTH BUILDING ELEVATION

SCALE: 3/8" = 1'-0"



NORTH BUILDING ELEVATION

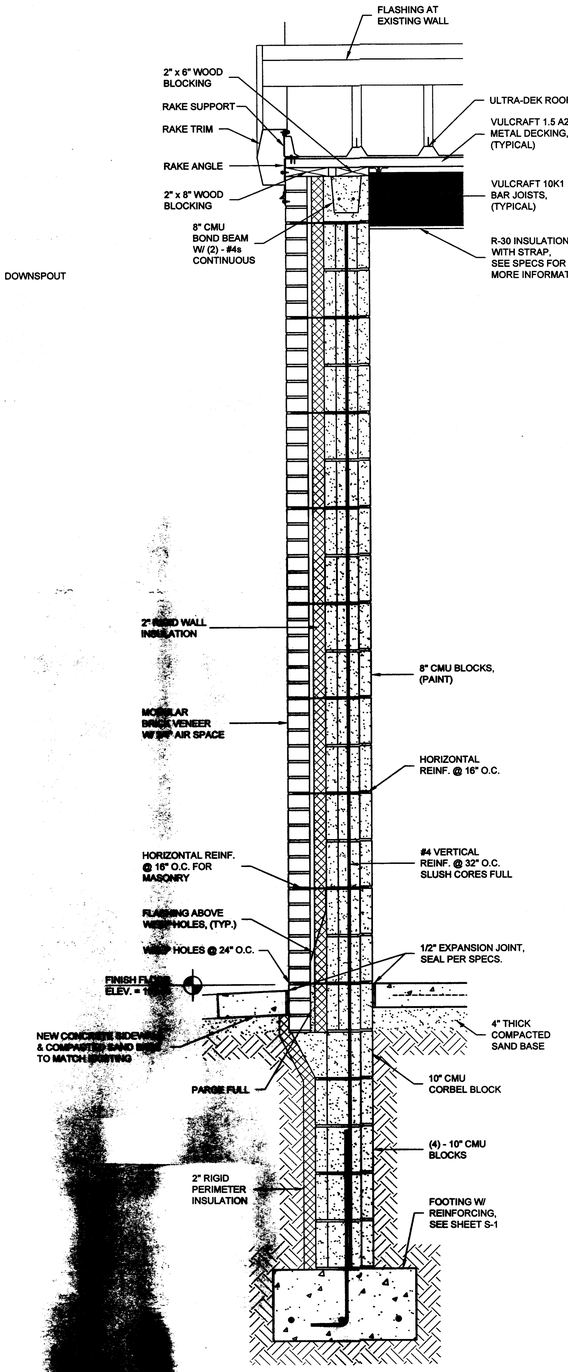
SCALE: 3/8" = 1'-0"



EAST BUILDING ELEVATION

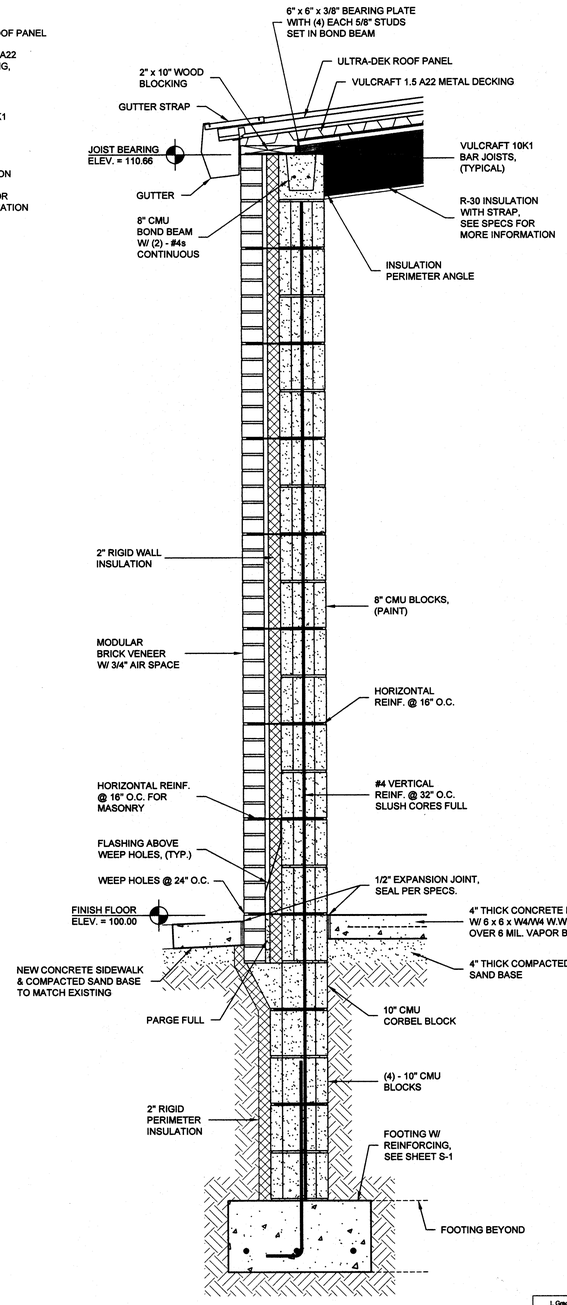
SCALE: 3/8" = 1'-0"

VENT LEGEND	
MARK	DESCRIPTION
A	3" VENT THROUGH WALL FROM WH-1
B	3" COMBUSTION AIR THROUGH WALL FROM WH-1



WS-1 **WALL SECTION**

SCALE: 1" = 1'-0"



WS-2 **WALL SECTION**

SCALE: 1" = 1'-0"

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

Seal of Coordinating Professional:

DAVID L. WILSON A - 12500 REGISTERED ARCHITECT STATE OF NEBRASKA

DWG: 648-14 A-01
DRAWN: J. SHAW
CHECKED:
REVISIONS

I, Greg A. Wolford, am the Coordinating Professional on the Cambridge Public Schools project.

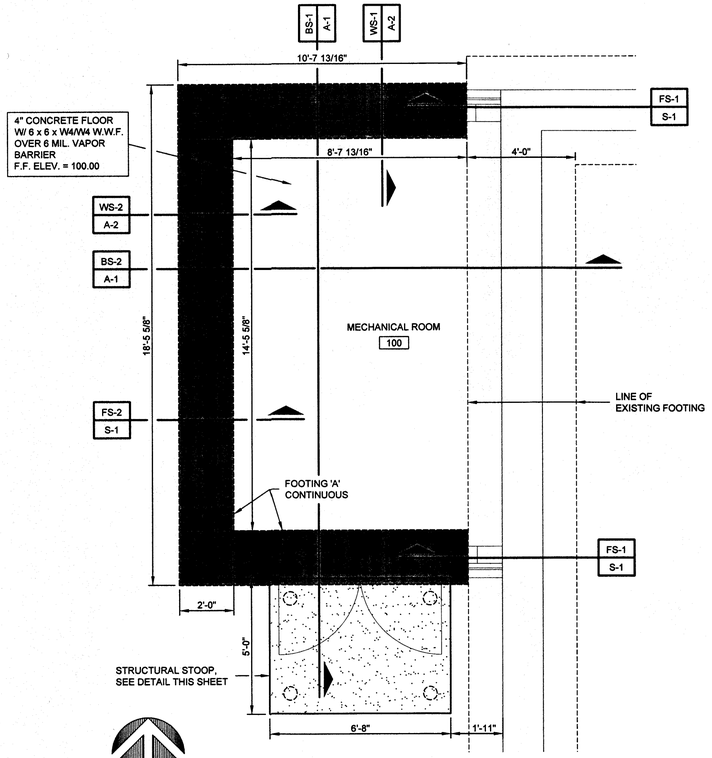
This bar is one inch long on original drawing.
If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

A-2

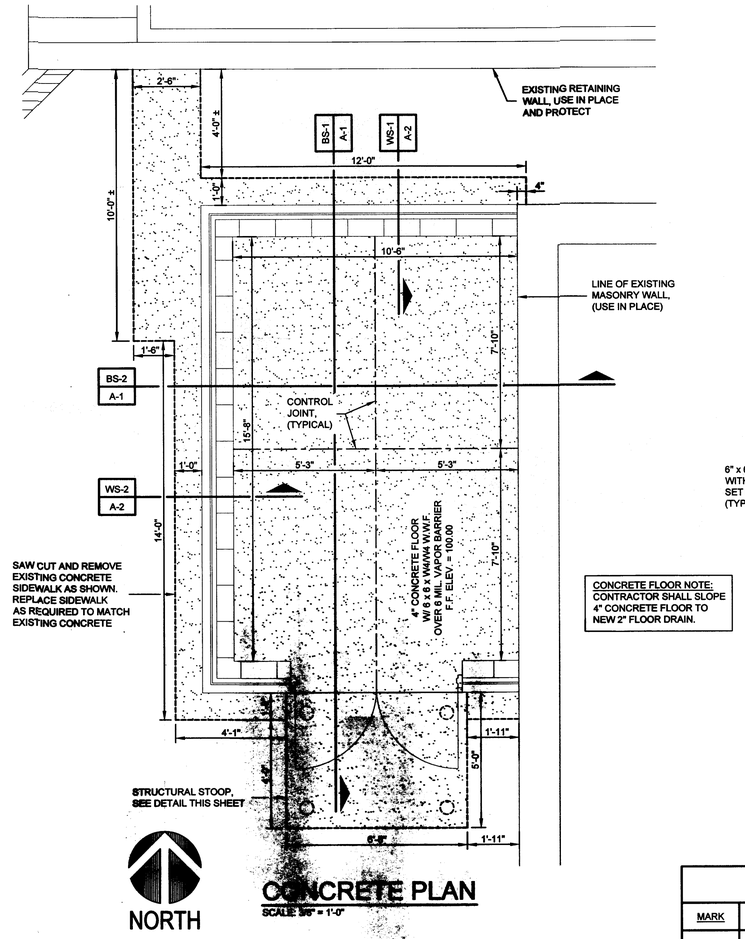
DATE: MARCH, 2014

J:\12\13 Cambridge Schools WH Heating Sys\Drawings\13-13 A-01.dwg, 4/29/2014 1:52:03 PM



FOUNDATION PLAN

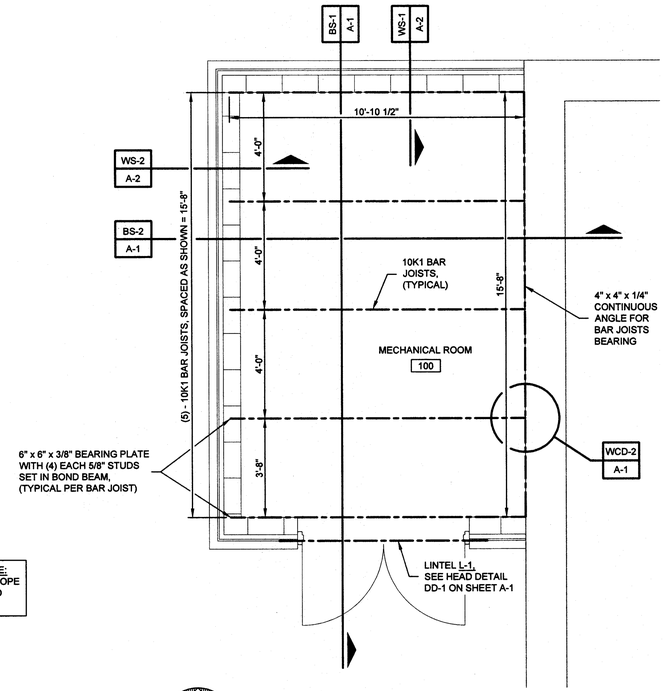
SCALE: 3/8" = 1'-0"



CONCRETE PLAN

SCALE: 3/8" = 1'-0"

CONCRETE FLOOR NOTE:
CONTRACTOR SHALL SLOPE 4" CONCRETE FLOOR TO NEW 2" FLOOR DRAIN.

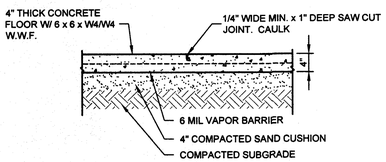


ROOF FRAMING PLAN

SCALE: 3/8" = 1'-0"

LINTEL SCHEDULE

MARK	DESCRIPTION	BEARING	CONFIGURATION
L-1	8" x 8"' CMU BOND BEAM WITH (2) - #4 REBAR CONTINUOUS. GROUT MASONRY FULL UNDER END BEARING AND 3" x 3" x 1/4" ANGLE. GROUT MASONRY FULL UNDER END BEARING	BEAR 8" ON EACH SIDE	L

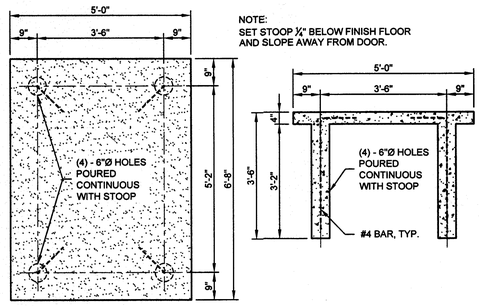


FLOOR CONTROL JOINT SECTION

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

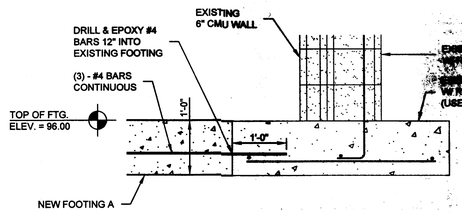
FOOTING SCHEDULE

FOOTING	SIZE	REINFORCING
'A'	1'-0" D x 2'-0" x CONT.	(3) - #4 BARS, CONTINUOUS



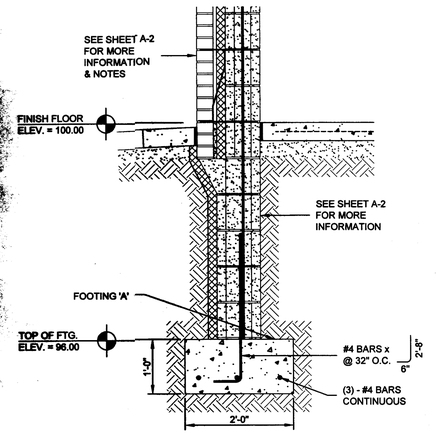
STRUCTURAL STOOP DETAIL

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



FS-1 **FOOTING SECTION**

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



FS-2 **TYPICAL FOOTING SECTION**

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

CONCRETE NOTES

1. ALL FINISH FLOOR CONCRETE SHALL BE 4" THICK PLATTE RIVER, SAND GRAVEL WITH 4000 PSI CONCRETE WITH 6 x 6 x W4 / W4 W.W.F. SEE SPECIFICATIONS SECTION 03300.
2. ALL INTERIOR FINISH FLOOR CONCRETE SHALL HAVE A POWER TROWEL FINISH.
3. ALL CONCRETE FOR FOOTINGS AND STEMWALLS SHALL BE CLASS A, REINFORCED AS SHOWN.
4. ALL CONCRETE FOR THE EXTERIOR SIDEWALKS SHALL BE CLASS A WITH FIBERMESH.
5. ALL CONCRETE TO HAVE 4" COMPACTED SAND CUSHION.
6. ALL SUBGRADE UNDER CONCRETE SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR DENSITY AT ±2% FROM OPTIMUM MOISTURE.
7. MINIMUM COVER OVER REINFORCEMENT SHALL BE 3" AGAINST EARTH AND 2" WHERE EXPOSED TO AIR.
8. MINIMUM LAP SPLICE SHALL BE AS FOLLOWS:
   #4 BARS = 18"
   #5 BARS = 24"
   #6 BARS = 30"
9. REBAR SHALL BE SET ON CONCRETE BLOCKS OR CHAIRS. **DO NOT SET ANY REBAR IN THE GROUND.**

I, David L. Wilson, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing.
If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 69901

Seal of Coordinating Professional:

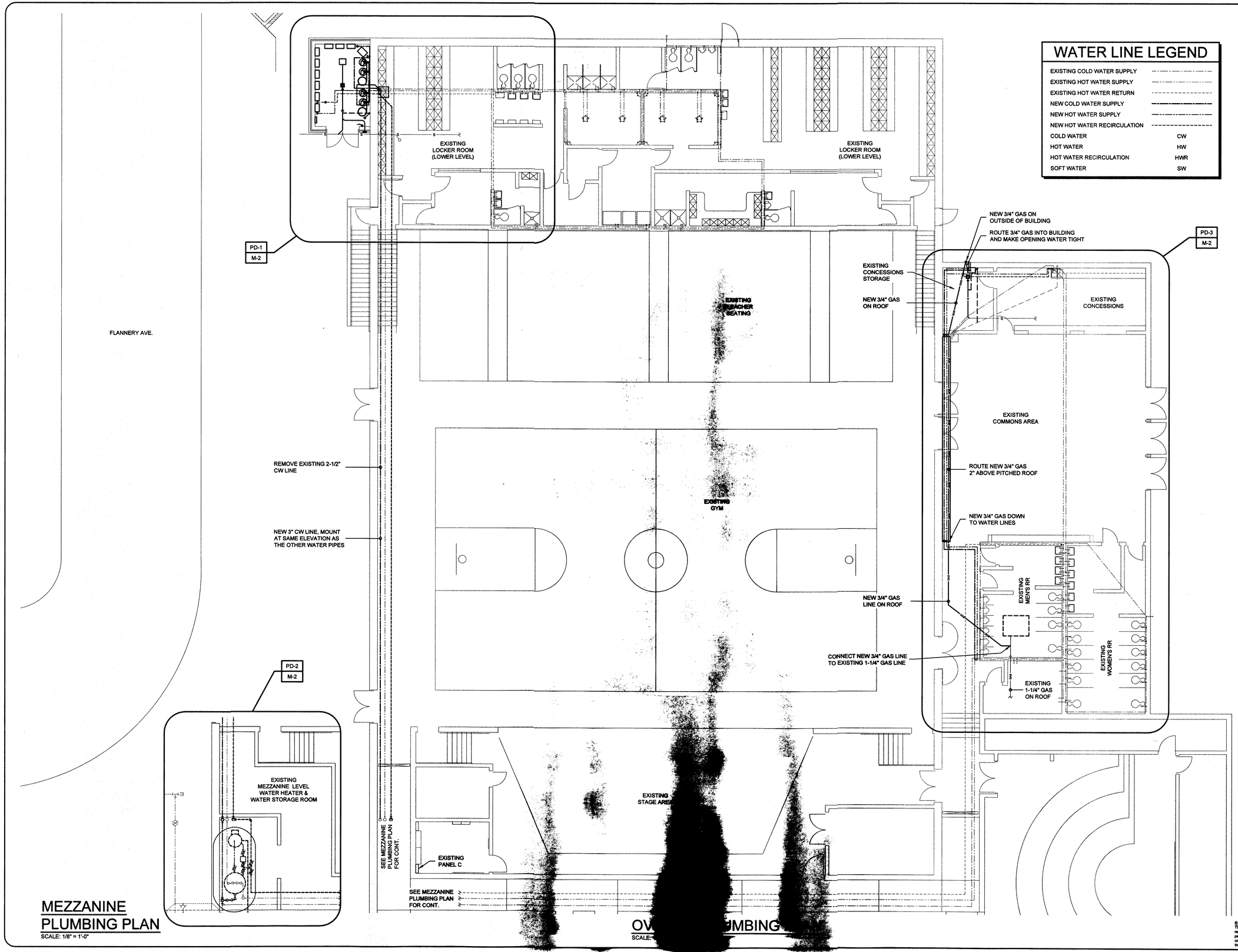
REGISTERED PROFESSIONAL ENGINEER
DAVID L. WILSON
APRIL HOCK
E - 15102
11-25-2014
STATE OF NEBRASKA

DWG: 721-13 S-01
DRAWN: J. SHAW
CHECKED:
REVISIONS:

S-1

DATE: MARCH, 2014

J:\721-13 Cambridge Sch-nds-ww Heating \pjt\drawings\721-13 S1.dwg, 4/29/2014 8:37:27 AM



WATER LINE LEGEND

EXISTING COLD WATER SUPPLY	
EXISTING HOT WATER SUPPLY	
EXISTING HOT WATER RETURN	
NEW COLD WATER SUPPLY	
NEW HOT WATER SUPPLY	
NEW HOT WATER RECIRCULATION	
COLD WATER	CW
HOT WATER	HW
HOT WATER RECIRCULATION	HWR
SOFT WATER	SW

MEZZANINE PLUMBING PLAN

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

OV[illegible]UMBING [illegible]

SCALE: [illegible]

SCHOOL IMPROVEMENT PROJECT

CAMBRIDGE PUBLIC SCHOOLS

CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

Seal of Coordinating Professional:

PROFESSIONAL ARCHITECTURAL ENGINEER APRIL B. HOCK E-15102 STATE OF NEBRASKA

DWG: 848-14 M-01
DRAWN: J. SHAW
CHECKED:
REVISIONS

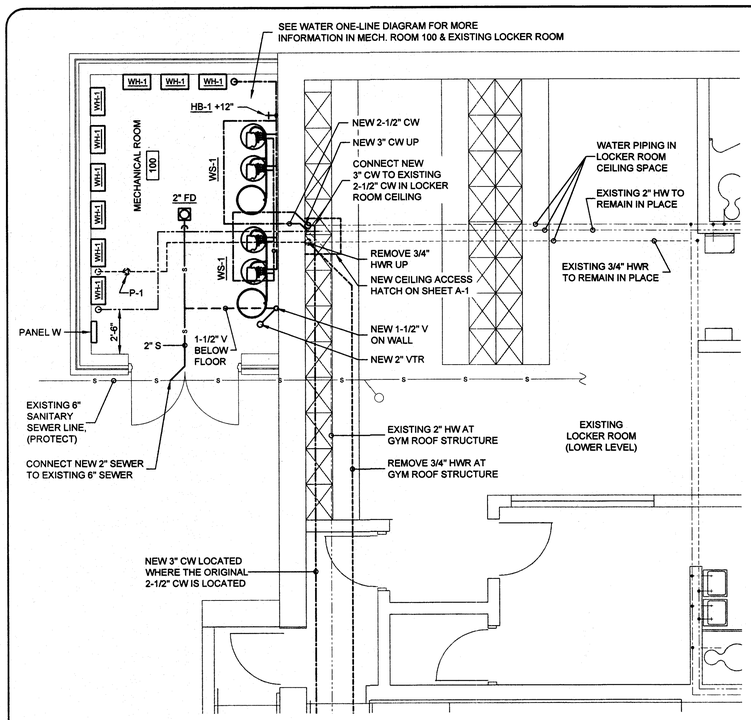
I, David L. Wilson, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing.
If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

M-1

DATE: MARCH, 2014



PD-1 PLUMBING PLAN DETAIL
SCALE: 1/4" = 1'-0"

PLUMBING NOTES

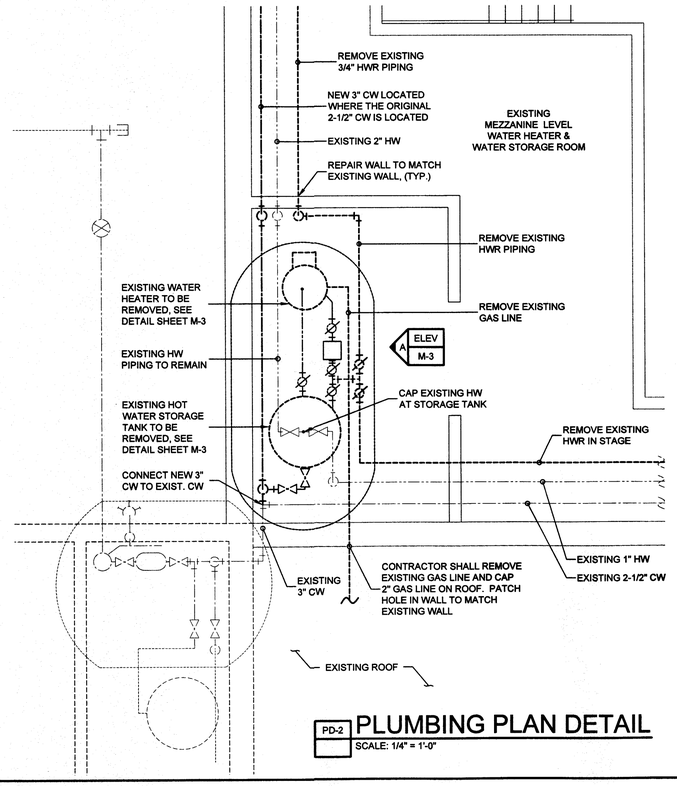
1. ALL NEW WATER LINES SHALL BE ZURN PEX PIPING OR EQUAL. INSULATE PER SPECIFICATIONS.
2. PEX PIPING INSTALLED IN CEILINGS RETURN AIR PELNUM SPACES SHALL MEET 25/50 FLAME SPREAD / SMOKE DEVELOPED REQUIREMENT IN GENERAL ACCORDANCE WITH UL733/ASTME AND IS SUITABLE FOR USE IN PLENUMS. ZURN PEX TUBE GREATER THAN 1" MEETS THE 25/50 FLAME SPREAD / SMOKE DEVELOPED REQUIREMENT WHEN WRAPPED IN 1/2" THICK FIBERGLASS INSULATED LISTED TO ASTM E84 AND SUPPORTED EVERY 24".

WATER LINE LEGEND

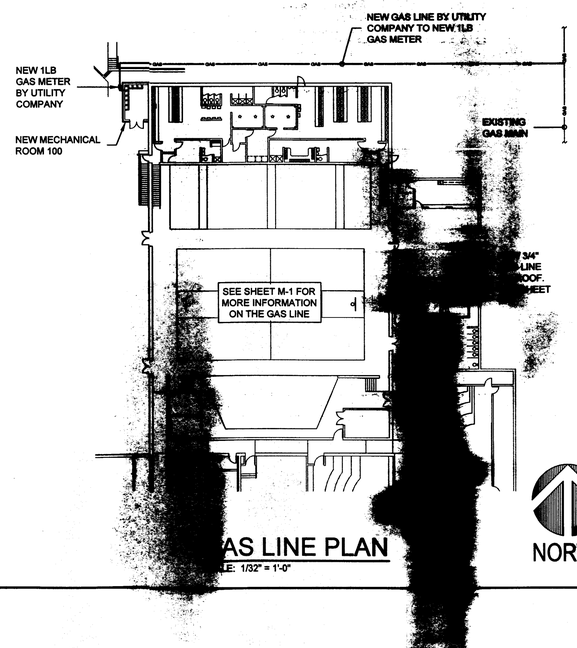
EXISTING COLD WATER SUPPLY	
EXISTING HOT WATER SUPPLY	
EXISTING HOT WATER RETURN	
NEW COLD WATER SUPPLY	
NEW HOT WATER SUPPLY	
NEW HOT WATER RECIRCULATION	
COLD WATER	CW
HOT WATER	HW
HOT WATER RECIRCULATION	HWR
SOFT WATER	SW

EQUIPMENT SCHEDULE

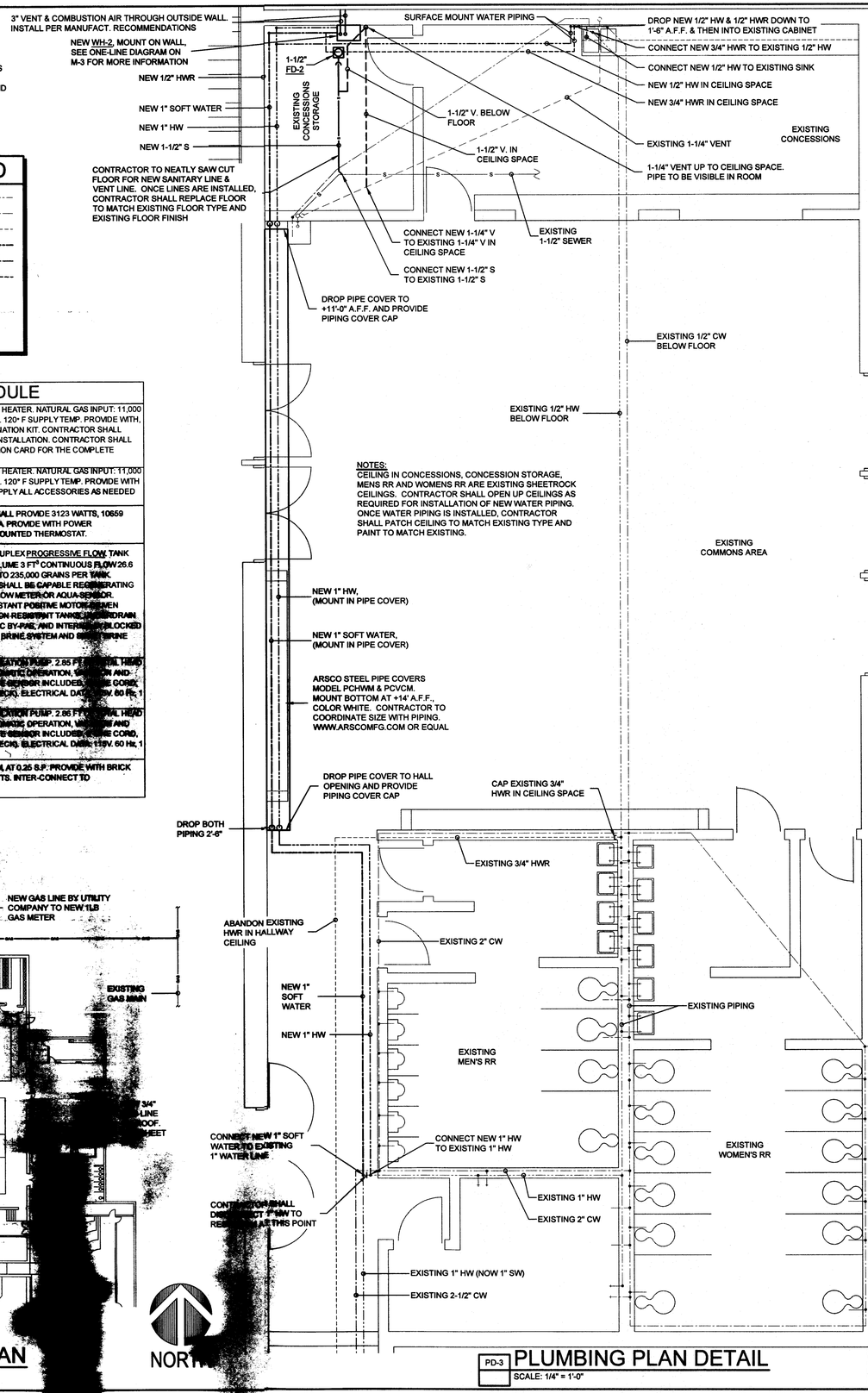
WH-1	RHEEM MODEL RTGH-95DVLN PRESTIGE TANKLESS WATER HEATER. NATURAL GAS INPUT: 11,000 - 199,900 BTUH. INDOOR TYPE, RECOVERY EFFICIENCY 94%. 120° F SUPPLY TEMP. PROVIDE WITH, COMMERCIAL CONVERSION KIT AND 3" HORIZONTAL TERMINATION KIT. CONTRACTOR SHALL SUPPLY ALL ACCESSORIES AS NEEDED FOR A COMPLETE INSTALLATION. CONTRACTOR SHALL SUPPLY ONE MIC-180 CONTROLLER AND MICS-180 EXPANSION CARD FOR THE COMPLETE SYSTEM.
WH-2	RHEEM MODEL RTGH-95DVLN PRESTIGE TANKLESS WATER HEATER. NATURAL GAS INPUT: 11,000 - 199,900 BTUH. INDOOR TYPE, RECOVERY EFFICIENCY 94%. 120° F SUPPLY TEMP. PROVIDE WITH 3" HORIZONTAL TERMINATION KIT. CONTRACTOR SHALL SUPPLY ALL ACCESSORIES AS NEEDED FOR A COMPLETE INSTALLATION.
UH-1	BERKO HUH524TA HORIZONTAL UNIT HEATER. THE UNIT SHALL PROVIDE 3123 WATTS, 10659 BUTH. ELECTRICAL DATA: 208 V. 1 PHASE, 15 AMPS, 18.5 MCA PROVIDE WITH POWER DISCONNECT SWITCH, WALL MOUNT BRACKET, AND UNIT MOUNTED THERMOSTAT.
WS-1 (TYP 2)	CULLIGAN MODEL HE-090. HE 1.5" AUTOMATIC SOFTENER DUPLEX PROGRESSIVE FLOW TANK DATA: MAX. CAPACITY 90 KGR @ 15 SALT DOSAGE, RESIN VOLUME 3 FT³ CONTINUOUS FLOW 26.6 GPM @ 25 PSI DROP. HARDNESS REMOVAL CAPACITIES UP TO 235,000 GRAINS PER TANK. PROVIDE WITH CULLIGAN SMART CONTROLLER. THE UNIT SHALL BE CAPABLE RECONFIGURING INITIATION BY CHOICE OR COMBINATION OF TIME CLOCK, FLOW METER OR AQUA-SENSOR. PROVIDE WITH TELEMETRIC CAPABILITY, CORROSION RESISTANT POSITIVE MOTOR DRIVEN REGENERATION VALVE - MOTOR DRIVEN PISTON, CORROSION-RESISTANT TANKS, UNDERDRAIN DESIGN, MULTI-POPPET DESIGN, FLOW METER, ELECTRONIC BY-PASS, AND INTERNAL BLOCKED PROGRESSIVE FLOW SYSTEMS. PROVIDE WITH DUBL-SAFE BRINE SYSTEM AND BRINE TANK PROBE.
P-1	TACO MODEL 003-IFC IQ SMART PLUS HOT WATER RECIRCULATION PUMP. 2.65 FT. TOTAL HEAD @ 3 GPM. PROVIDE WITH THE FOLLOWING FEATURES: AUTOMATIC OPERATION, VACATION AND EXERCISE MODE, ENERGY EFFICIENT, LED DISPLAY, REMOTE SENSOR INCLUDED, LINE CORD, FIELD REPLACEABLE CARTRIDGE, IFC (INTEGRAL FLOW CHECK). ELECTRICAL DATA: 120V. 60 Hz, 1 PHASE, 0.45 AMPS, 3250 RPM, AND 1/40 HP.
P-2	TACO MODEL 003-IFC IQ SMART PLUS HOT WATER RECIRCULATION PUMP. 2.86 FT. TOTAL HEAD @ 2 GPM. PROVIDE WITH THE FOLLOWING FEATURES: AUTOMATIC OPERATION, VACATION AND EXERCISE MODE, ENERGY EFFICIENT, LED DISPLAY, REMOTE SENSOR INCLUDED, LINE CORD, FIELD REPLACEABLE CARTRIDGE, IFC (INTEGRAL FLOW CHECK). ELECTRICAL DATA: 120V. 60 Hz, 1 PHASE, 0.45 AMPS, 3250 RPM, AND 1/40 HP.
EF-1	GREENHECK MODEL SP-B70 CEILING EXHAUST FAN. 55 CFM, AT 0.25 S.P. PROVIDE WITH BRICK VENT. ELECTRICAL DATA: 120V. 1 PHASE, 0.53 AMPS, 45 WATTS. INTER-CONNECT TO THERMOSTAT.



PD-2 PLUMBING PLAN DETAIL
SCALE: 1/4" = 1'-0"



AS LINE PLAN
LE: 1/32" = 1'-0"



PD-3 PLUMBING PLAN DETAIL
SCALE: 1/4" = 1'-0"

I, David L. Wilson, am the Coordinating Professional on the Cambridge Public Schools project.

This bar is one inch long on original drawing. If not one inch on this sheet, adjust scales accordingly

©COPYRIGHT
This document and the information contained may not be reproduced or excerpted from without the express written permission of W Design Associates. Unauthorized copying or disclosure of construction use are prohibited by the copyright law.

SCHOOL IMPROVEMENT PROJECT
CAMBRIDGE PUBLIC SCHOOLS
CAMBRIDGE, NEBRASKA

WDA W DESIGN ASSOCIATES
Consulting Engineers and Architects
McCook, Nebraska 69001
Hastings, Nebraska 68901

Seal of Coordinating Professional:

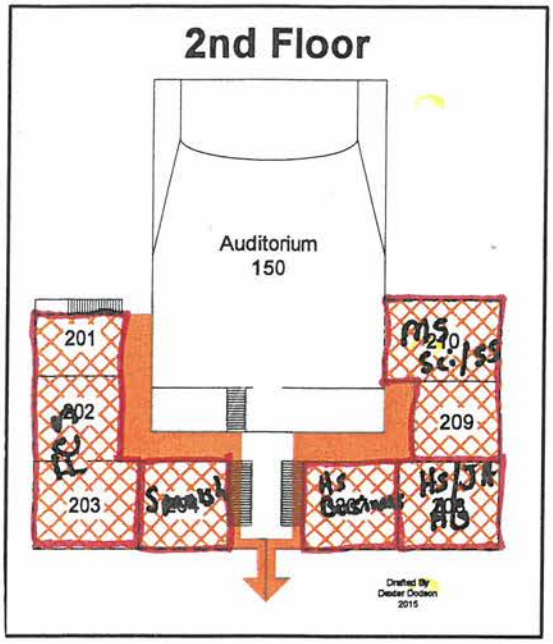
PROFESSIONAL ENGINEER
DAVID L. WILSON
APRIL 8, 2014
E-10702
STATE OF NEBRASKA

DWG: 848-14 M-01
DRAWN: J. SHAW
CHECKED:
REVISIONS

M-2

DATE: MARCH, 2014

I:\372_13 Cambridge School\ WH Heating Sys\Drawings\372-13 M-01.dwg, 4/29/2014 2:08:16 PM

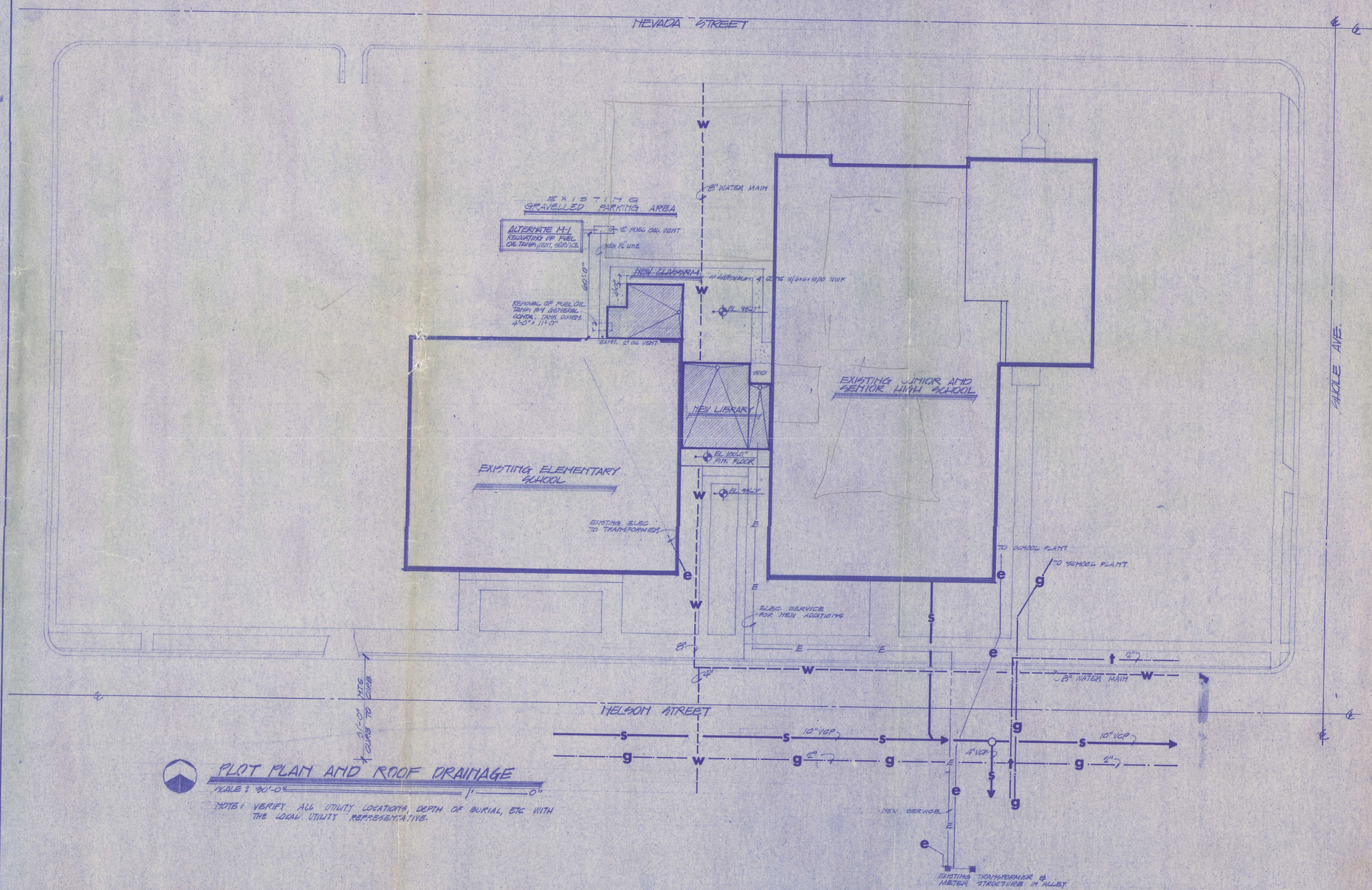


Cambridge Public Schools

FIRE Evacuation Plan

CAMBRIDGE SCHOOL ADDITION

CAMBRIDGE, NEBRASKA.



PLOT PLAN AND ROOF DRAINAGE

SCALE: 30'-0" 1' 0"

NOTE: VERIFY ALL UTILITY LOCATIONS, DEPTH OF BURIAL, ETC WITH THE LOCAL UTILITY REPRESENTATIVE.

SYMBOLS

- ROOM NUMBER
- WINDOW MARK
- DOOR MARK / HARDWARE SET
- DETAIL NUMBER / SHEET DRAWN ON
- ELEV. NUMBER / SHEET DRAWN ON
- CROSS SECTION NO. / SHEET DRAWN ON
- WALL SECTION NO. / SHEET DRAWN ON

MATERIALS

- FACE BRICK
- CONCRETE BLOCK
- POURED CONCRETE
- SAND-GRAVEL
- EARTH
- SHEET ROCK
- RIGID INSULATION
- BATT INSULATION
- QUARRY TILE
- PLASTER
- WOOD (FINISHED)
- WOOD (ROUGH)

INDEX

1 PLOT PLAN

2 FOUNDATION & STRUCTURAL PLAN

3 FLOOR PLAN

4 WALL SECTIONS & DETAILS

5 ELEVATIONS

6 MECHANICAL & ELECTRICAL PLAN

LEGEND

- —s— SANITARY SERVICE
- —g— GAS SERVICE
- —e— ELECTRICAL SERVICE
- —w— WATER SERVICE
- —T— TELEPHONE SERVICE
- —○— EXIST. POWER POLE
- 98' EXIST. GRADE ELEV.
- 98' NEW GRADE ELEV.
- PROPERTY LINE
- SPOT ELEV.
- EXIST. TREES

Pauline Walburn
Dale Hecox

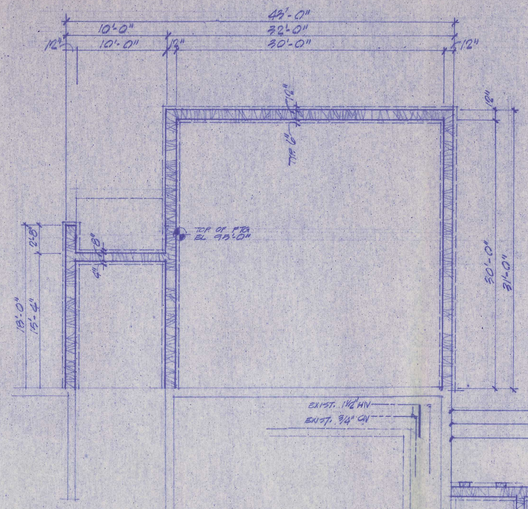
19

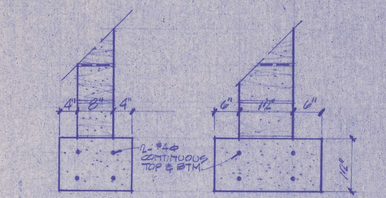
Eugene Griffiths

EUGENE GRIFFITHS & CO. ARCHITECTS - INTERIOR CONSULTANTS
718 EAST 2ND BLVD. HASTINGS, NEBRASKA PHONE 2-2615
A.I.A.

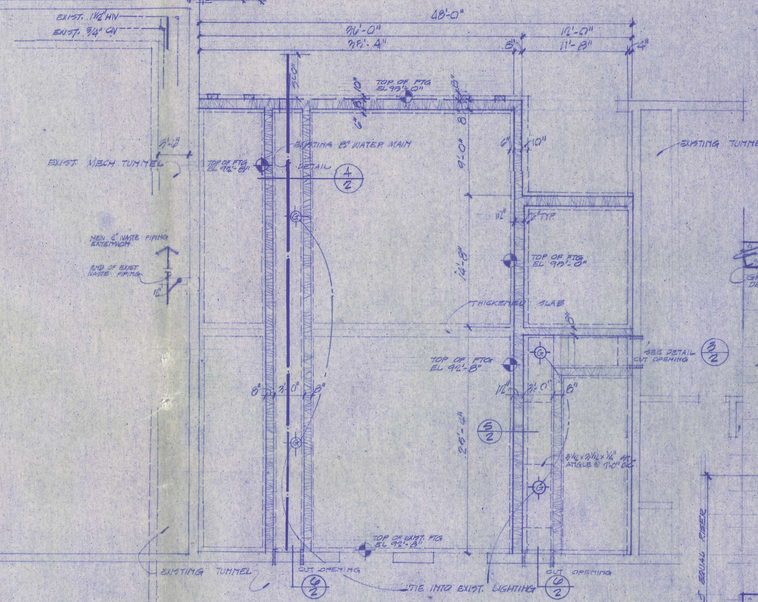
DRAWN BY RON, KAM SCALE: 1" = 30'-0"
REVISED DATE:

PLOT PLAN & TITLE SHEET
CAMBRIDGE NEBRASKA
JOB NO. 692
SHEET 1 OF 11

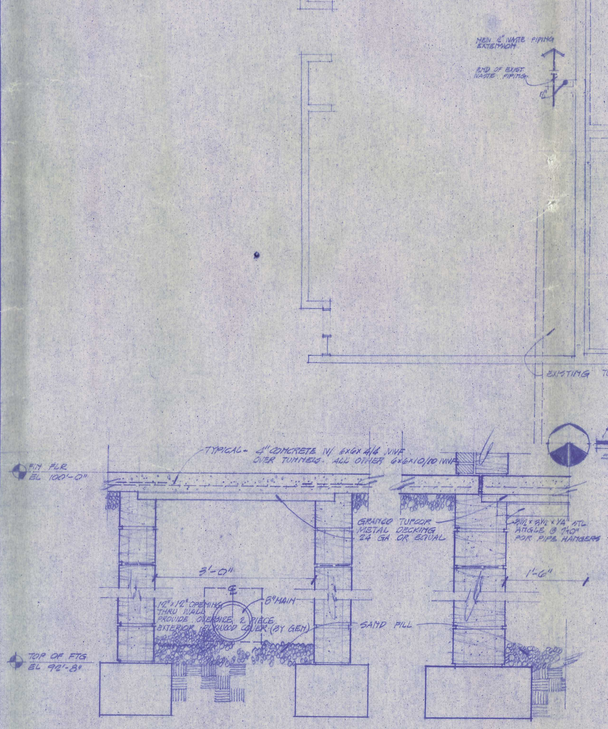




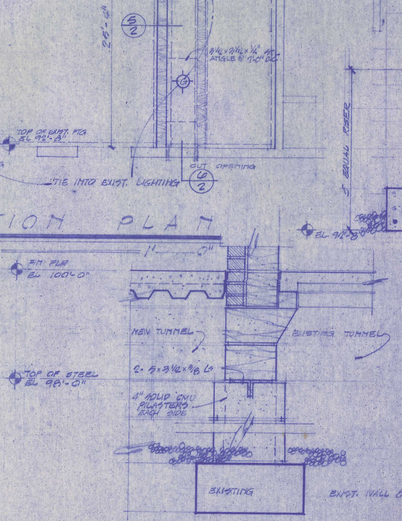
1/2 TYPICAL FOOTING DETAIL
NOT TO SCALE



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



1/2 TUNNEL @ WATER MAIN
SCALE 3/4" = 1'-0"

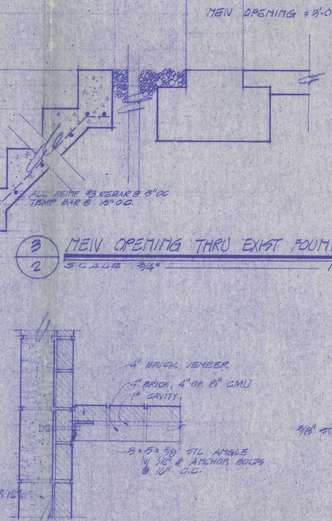


5/2 PARTIAL SECTION
SCALE 3/4" = 1'-0"

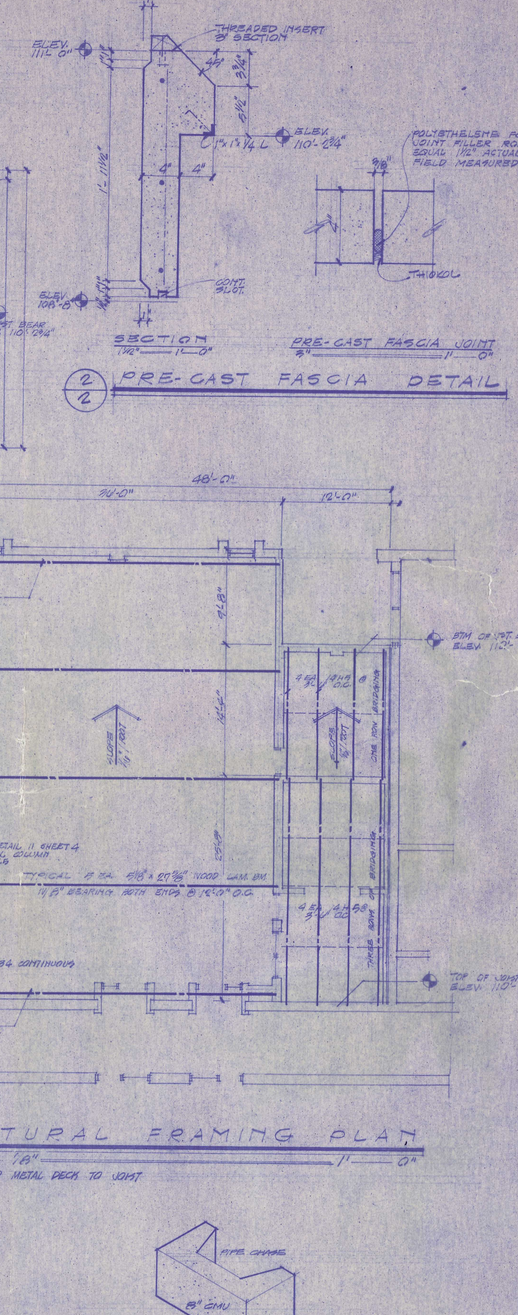
NOTE: ALL CONCRETE MASONRY UNITS TO BE STACK BOND WITH HORIZONTAL REINF @ 16" OC., VERTICAL REINF - #4 @ 32" O.C.

3/2 NEW OPENING THRU EXIST. FOUNDATION
SCALE 3/4" = 1'-0"

6/2 NEW OPENING THRU EXIST. FOUNDATION
SCALE 3/4" = 1'-0"



7/2 NEW WALL CONNECTION
SCALE 3/4" = 1'-0"



STRUCTURAL FRAMING PLAN
SCALE 1/8" = 1'-0"
NOTE: TACK WELD METAL DECK TO JOIST

8/2 LAMINATED WOOD BEAM ANCHOR
NOT TO SCALE

9/2 PILASTER DETAIL
NOT TO SCALE

SECTION
1½" = 1'-0"

PRE-CAST FASCIA JOINT
⅜" = 1'-0"

2/2 PRE-CAST FASCIA DETAIL

Pauline Walburn
Dale Hess

Eugene Griffiths

GRIFFITHS / CO ARCHITECTS - INTERIOR CONSULTANTS
718 EAST CHICAGO BLVD. HASTINGS, NEBRASKA PHONE 2-2615

EUGENE GRIFFITHS A.I.A.
FOUNDATION & STRUCTURAL PLAN
CAMBRIDGE NEBRASKA

SCALE: 1/8" = 1'-0"
DATE:
DRAWN BY: FWH
REVISED
JOB NO. 6612
SHEET NO. S-1

DOOR SCHEDULE

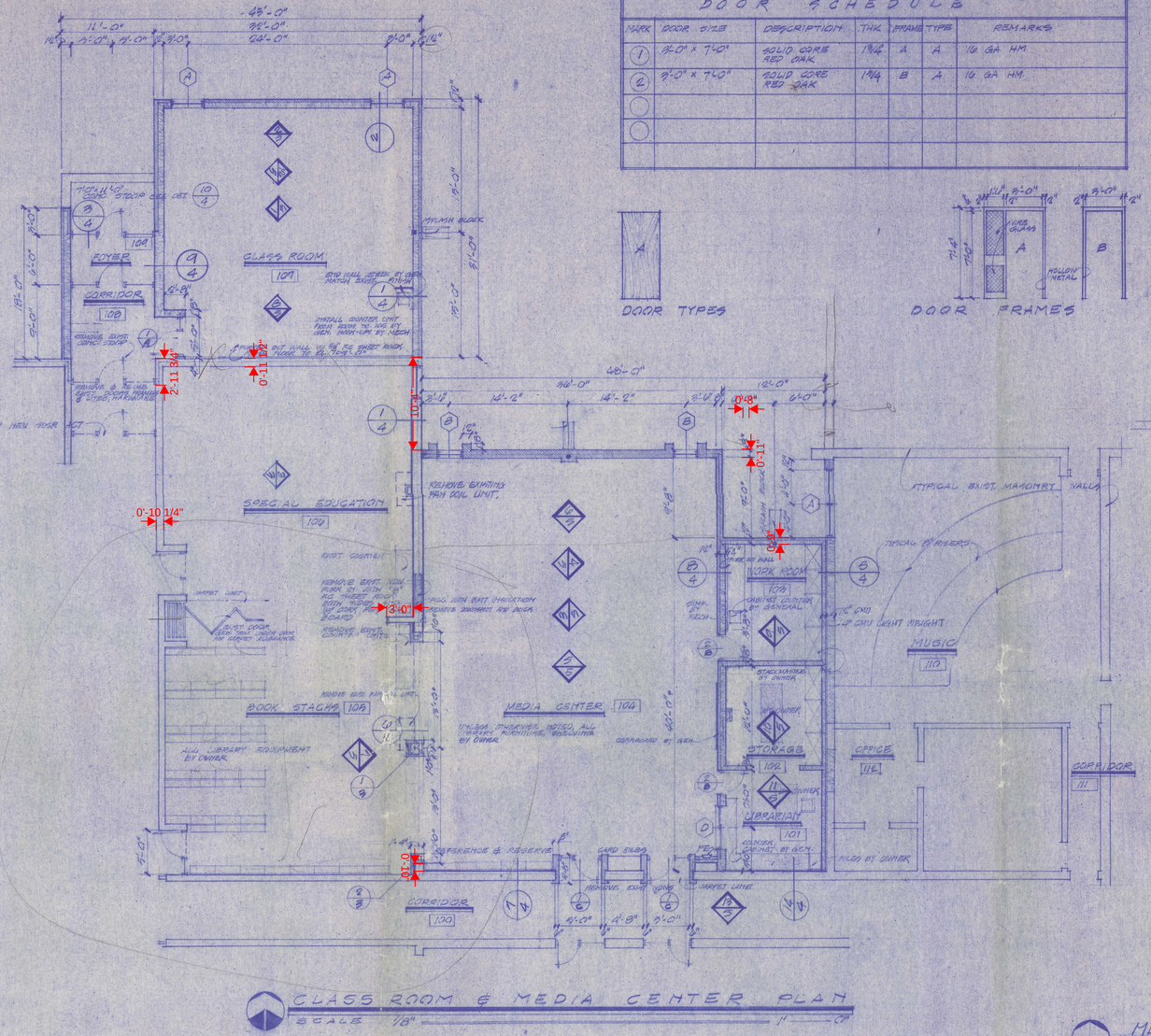
MARK	DOOR SIZE	DESCRIPTION	THK.	FRAME TYPE		REMARKS
1	3'-0" x 7'-0"	SOLID CORE RED OAK	1¾"	A	A	16 GA. H.M.
2	3'-0" x 7'-0"	SOLID CORE RED OAK	1¾"	B	A	16 GA. H.M.

WINDOW SCHEDULE

MARK	R.O. SIZE	DESCRIPTION	FRAME	TRIM	REMARKS
A	4'-0½" x 6'-0⅜"	ANDERSEN PERMA-SHIELD ARA6O	WOOD	RED OAK	INSULATING GLASS & INSECT SCREEN
B	2'-0½" x 6'-0⅜" 5'-0½" x 6'-0⅜"	ANDERSEN PERMA-SHIELD AP33 & A31	WOOD	RED OAK	INSULATING GLASS. TYPICAL ½" TRANSOM.
C					
D	5'-0½" x 3'-6½"	ANDERSEN PERMA-SHIELD GLIDING UNIT G536	WOOD	RED OAK	¼" TEMPERED GLASS

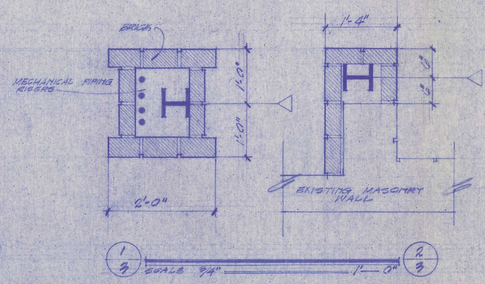
DOOR TYPES

DOOR FRAMES

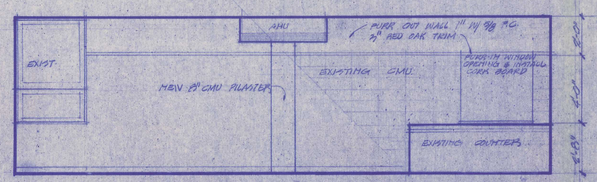


CLASS ROOM & MEDIA CENTER PLAN

SCALE 1/8" = 1'-0"

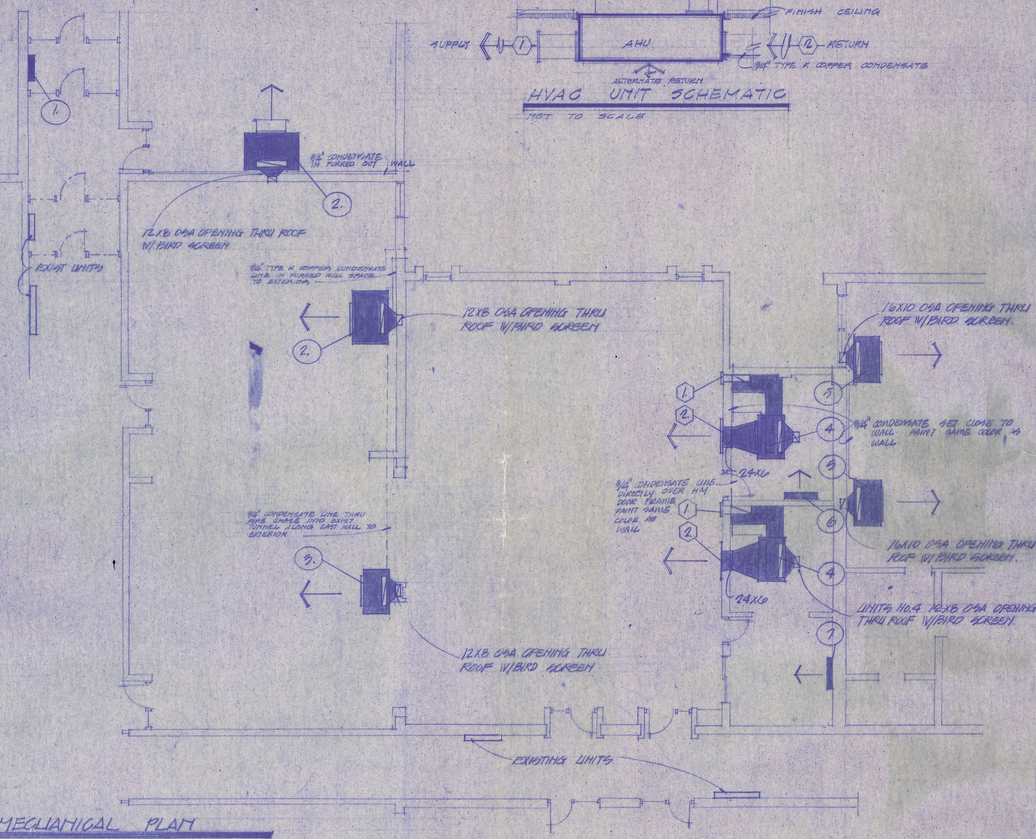


1/3 SCALE 3/4" = 1'-0"



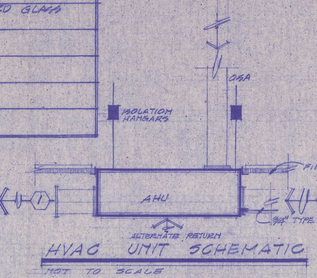
2/11 SPECIAL EDUCATION

SCALE 1/4" = 1'-0"



MECHANICAL PLAN

SCALE: 1/16" = 1'-0"



HVAC UNIT SCHEMATIC

NOT TO SCALE

EQUIPMENT SCHEDULE

	MARK NO.	MODEL NO'S.	MANUFACTURE	CFM	CFM OSA	HEATING BTU/HR.	COOLING BTU/HR.	GPM HTG	GPM COOL	AMP DRAW	MOTOR SIZE	POWER	PRESS. DROP AP HTG.	PRESS. DROP AP CLG.
1	1.	XR30SFGFFR	HERMAN-NELSON UNIT VENT	285-350		160000		9.0		1.5	¼40	120V.	1.0	
2	2.	403750G6G		1000	250	83000	96000	3.2	7.0	1.6	1/8	120V.	.6	1.7
1	3.	303750G6G		750	250	62000	72000	2.9	5.0	1.2	1/8	120V.	.6	.8
2	4.	3035 0G6G		750	250	40000	16000	2.8	5.0	4.5	1/4	120V.	.45	.8
2	5.	303750G6G		750	600		24000		5.0	1.2	1/6	120V.		.8
1	6.	XR30SFGFFR		285-350		13500	6000	1.3	1.3	1.5	¼40	120V.	.3	.9
1	7.	XR20SFGFFR		225-250		6000	3500	1.0	.7	1.5	¼40	115V.	.2	.4
	8.													
	9.													

*REGISTER SCHEDULE
① TUHA MODEL TO HV OB.
② TUHA LINEAR-SIDE WALL

92X6 ALUMINUM SUPPLY AIR REGISTER
60X8 ALUMINUM RETURN AIR REGISTER

Pauline Valburn
Dale Fleury

Eugene Griffiths

EUGENE GRIFFITHS / CO ARCHITECTS - INTERIOR CONSULTANTS
718 EASTSIDE BLVD. HASTINGS, NEBRASKA PHONE 2-2615
FLOOR PLAN
CAMBRIDGE NEBRASKA
JOB NO. 62
SCALE 1/8 INCH
DRAWN BY AWH
DATE
REVISED

CAP PLATE TOPPED BY 26 GA. FLASHING

CONC. FASCIA MOVED FROM EXIST. BLDG.

CONT. BOND BEAM W/ 2-#4's.

BOTT. OF PLATE EL. 111'-0"

TOP OF BOND BEAM EL. 110'-2 3/4"

TOP OF BEAM EL. 104'-4"

BOTT. OF FASCIA EL. 101'-8"

ALUM. ACOUS. PANELS

LINTEL OVER WINDOW BEAM & PLATE (SEE STRUCTURAL SHT.)

20 YR BOND SPEC. BUILT-UP ROOF ON 1½" RIGID R/9 INSUL. AND 1½" METAL DECK, TYPE "R" 22GA.

CONC. BRICK

16ψ5 @ 4'-0" OC.

WINDOW

TYPICAL STACK BOND CMU W/ VERTICAL REINF. #4 REBAR 32" OC.

½" SHEATHING

HORIZ. REINF. EVERY 2ND. COURSE.

FACE BRICK

½" EXPANSION JOINT

FLOOR EL. 100'-8"

4" CONC. SLAB W/ 6x6-W/0 WWM.

BRICK ROWLOCK

4" SAND FILL

2" CLR. PERIMETER MEMB. HORIZONTAL THRU-WALL FLASHING

WEEP HOLES @ 16" OC.

12"

HORIZ. REINF. EVERY 2ND. COURSE

TOP OF FTG. EL. 95'-0"

12'-0"

1'-6"

1 / 4 SECTION 3/4" = 1'-0"

2 / 4 SECTION 3/4" = 1'-0"

5" TYPICAL ⅜ STIFFENERS

⅝ STL. H. WITH 4 EA A325 BOLTS

TYPICAL W12 x 19 COLUMN

12"x12"x⅝ BASE PLATE WITH 4 EA A325 MASONRY BOLTS

HOLES FOR BASE PLATE TO BE FIELD DETERMINED SHOUT TO LEVEL.

NEW ADDITION TO MATCH EXIST. FLOOR ELEV. 100'-0"

EXISTING TUNNEL

EXISTING EXTERIOR WALL

11 / 4 STEEL CONNECTION DETAILS SCALE 3/4" = 1'-0"

THREADED INSERT

10 H 2 @ 9'-0" OC.

STONE FASCIA REMOVED FROM EXIST. BUILDING.

CONC. BOND BEAM W/ 2-#4's.

CONC. FASCIA

12"

½" SHEATHING

8" BLK.

STEEL LINTEL (SEE 4/EG.)

CONC. FILL

TOP OF BEAM EL. 104'-2 3/4"

TOP OF FRAME EL. 101'-4"

3 / 4 ABOVE EXT. DOOR 1" = 1'-0"

EXIST. SOFFIT

EXIST. LINTEL

JOIST BEARING EL. 110'-2 3/4"

14 H 4

CEILING EL. 108'-0"

HORIZ. REINF. EVERY 2ND COURSE

BLOCK IN EXIST. WINDOW

4" LIGHT WT. BLOCKS

EXIST. WALL

1" STYROFOAM

4" CONC. SLAB W/ 6x6-W/0 W.W.M.

2-#4's CONT.

½" EXPANSION JOINT

FINISH FLR. EL. 100'-0"

SEE WINDOW SECTION DETAIL 2, SHEET 4 THIS SHEET

4 / 4 AT EXIST. WINDOW 1" = 1'-0"

5/8" T.G. SHEET ROCK

WOOD FRAME OR METAL STUDS

BRICK

4"

LINTEL SEE SPEC. STL. CLIP FIELD WELD @ 80" O.C.

FINISH CEILING EL 108'-8"

TOP OF FRAME EL 101'-4"

EXIST. 12" MASONRY WALL

BRICK

BEGIN CARPET FINISH UPSIDE WALL LINE

12 / 4 SECTION THRU. DOOR ⅜" = 1'-0"

TOP OF FASCIA EL. 116'-6"

METAL FLASHING

EXT. PLYWOOD

BUILT-UP ROOF, 20 YR BOND SPEC.

NEW CANT.

METAL FASCIA

DOUBLE 2x8 FL.

2 LAYERS OF 1" EXTRUDED FOAM R 10 ON 2"x6" NAILLOCK FURR.

7 1/16" X 21⅞" LAM. BEAM

LAM. BEAM EL. 112'-0"±

BOND BEAM W/ 2-#4's CONT.

EXPAND-O-FLASH

EXIST. ROOF JACK WELD EXIST. JOINT

10A x 3/4 - 3 1/2"-⅜ @ 2'-4" x 4'-⅜

7/8" PL. SHEET ROCK, FURRED, 8" CMU SOLID CONT. W/ 2000 PSI MIN. GR. 20" OC. 6"x4"x⅜

6" CMU SOLID

TOP OF BEAM EL. 110'-2 3/4"

4" RIGID INSUL. ON METAL DECK

SOFFIT VENT 48" OC.

BOTTOM FASCIA EL. + 111'-2"

FIN. FLR. EL. 101'-8"

FINISH FLR. EL. 100'-0"

12"

SOLID BLK.

EXIST. WALL LINE

TYPE "R" 22GA. METAL DECK

JOIST BEARING EL. 110'-2 3/4"

BOND BEAM W/ 2-#4's CONT.

12"

CEILING EL. 108'-8"

4 / 4 CORR. DETAIL 1" = 1'-0"

13 / 4 SECTION 3 1/4" = 1'-0"

NEW BOND BEAM W/ 2-#4 CONT.

5/8" P.C. SHEET ROCK T/B WOOD FURRING

NEW ROWLOCK COURSE

EXISTING

12"

7 / 4 DETAIL 1" = 1'-0"

8 / 4 SECTION 3 1/4" = 1'-0"

EXIST. WALL 3'-0"

1'-0"

3½"

1½" EXP. JOINT

TOP OF SLAB EL. 98'-9"

6"x6"x10-10 W.W.M.

2"#4

8"

BOTT. OF FTG. EL. 96'-6"

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

EXIST. 3/4" SLOPE

EXIST. CONC. STEPS

EXIST. CONC. WALL

EXIST. FOOTING

EXIST. WORK AND BLK. WALL

EXIST. FRESH AIR GRILLE.

RUN CARPET TRIM CONT. AROUND TOP AND SIDES OF GRILLE. CONT. CARPET BEHIND 4" BASE TO LOWER GRILLE. APPROX. DIMENSION 54" x 12" BOTH SIDES

CARPET TRIM

4" CARPET BASE

13 / 4 CARPET @ GRILLE 1½" SCALE

REMOVE PRECAST FASCIA & RE-INSTALL IN OTHER AREAS IN GOOD CONDITION AS CREDIT ON H.B.

JOIST BEARING EL. 110'-2 3/4"

BUILT-UP ROOF 20 YR BOND SPEC.

EXPAND-O-FLASH

1½" RIGID INSUL. R/9

TYPE "R" 22 GA. METAL DECK.

14 H 4 OVERLAPPED

NEW

EXISTING

14 / 4 DETAIL 1" = 1'-0"

4" CONC. BLKS.

BEAM & PLATE LINTEL

12"x2" OAK TRIM

OAK TRIM

HEAD

8" = 1'-0"

OAK TRIM

8" CONC. BLKS.

JAMB

3" = 1'-0"

4" FACE BRK.

SILL

8" = 1'-0"

4" CONC. BLKS.

OAK STOOL

12"x2" OAK TRIM

BRICK

15 / 4 TYPICAL WINDOW

REGISTERED PROFESSIONAL ARCHITECT EUGENE A. GRIFFITHS 4617

Pauline Walburn Dale Hecox

Eugene Griffiths

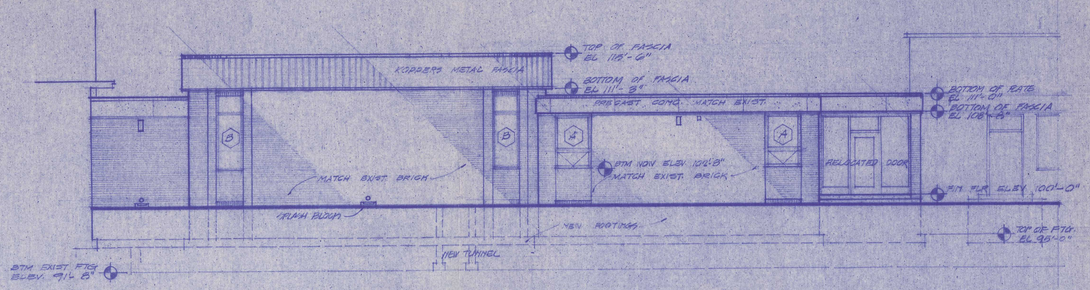
EUGENE GRIFFITHS / CO ARCHITECTS - INTERIOR CONSULTANTS
718 EAST 5 DE BLVD. HASTINGS, NEBRASKA PHONE 2-2615

DRAWN BY FBW | SCALE 1" = 1'-0" | DATE | REVISED

JOB NO. 6112

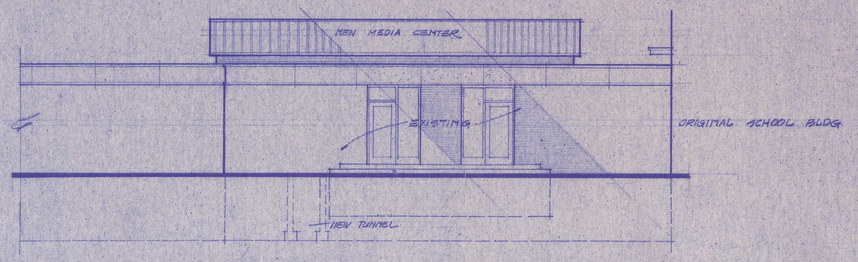
HALL SECTIONS & DETAILS
CAMBRIDGE NEBRASKA

SHEET NO. 5 OF 6 SHEETS



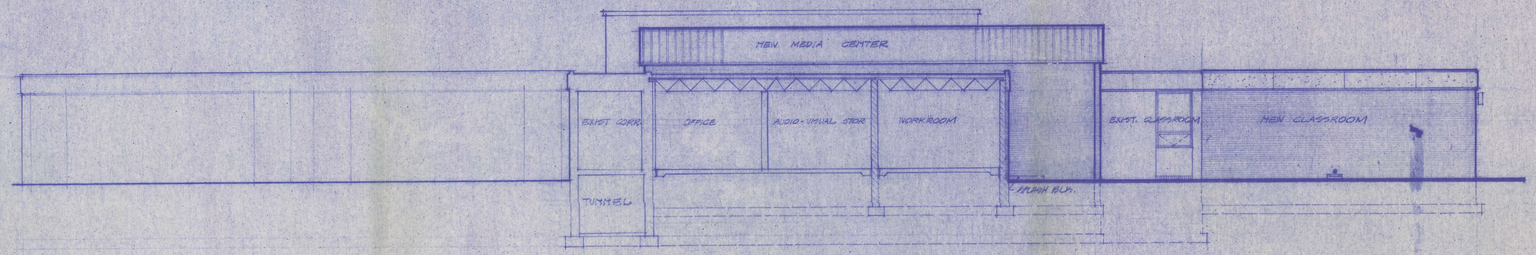
NORTH ELEVATION

SCALE 1/8" = 1'-0"



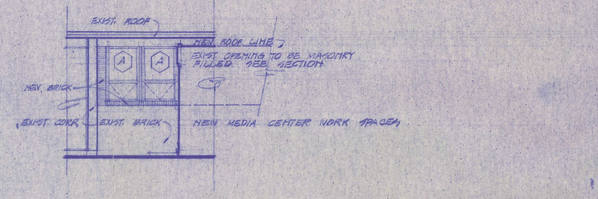
SOUTH ELEVATION

SCALE 1/8" = 1'-0"



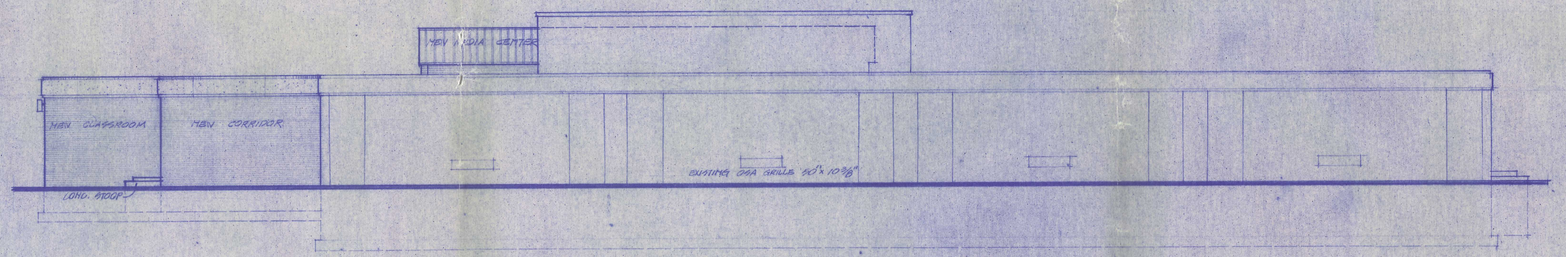
EAST ELEVATION

SCALE 1/8" = 1'-0"



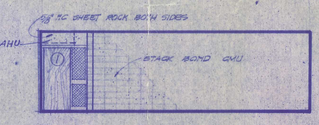
PARTIAL WEST ELEVATION (EXIST. MUSIC ROOM)

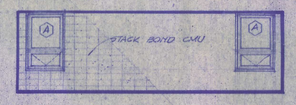
SCALE 1/8" = 1'-0"



WEST ELEVATION

SCALE 1/8" = 1'-0"



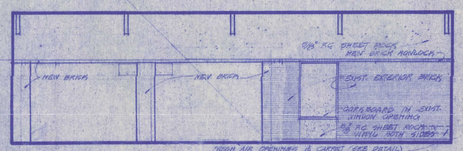


1/S CLASS ROOM

SCALE 1/8" = 1'-0"

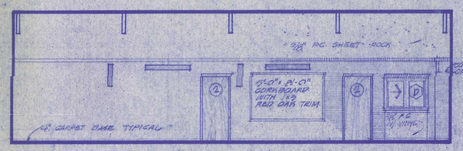
4/S CLASS ROOM

SCALE 1/8" = 1'-0"



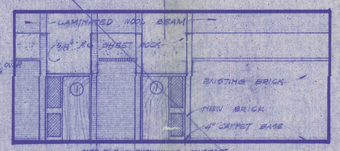
3/S MEDIA CENTER

SCALE 1/8" = 1'-0"



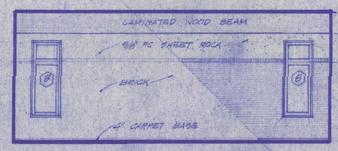
4/S MEDIA CENTER

SCALE 1/8" = 1'-0"



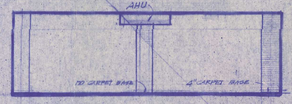
5/S MEDIA CENTER

SCALE 1/8" = 1'-0"



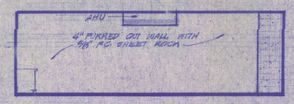
6/S MEDIA CENTER

SCALE 1/8" = 1'-0"



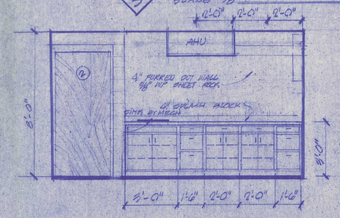
7/S BOOK STACKS

SCALE 1/8" = 1'-0"



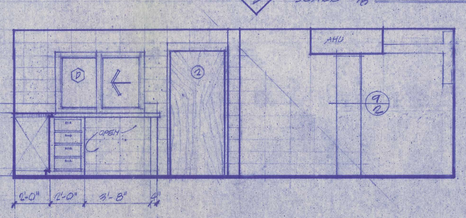
8/S CLASS ROOM

SCALE 1/8" = 1'-0"



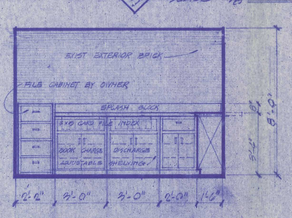
9/A WORK ROOM

SCALE 1/4" = 1'-0"



10/A LIBRARIAN STORAGE

SCALE 1/4" = 1'-0"



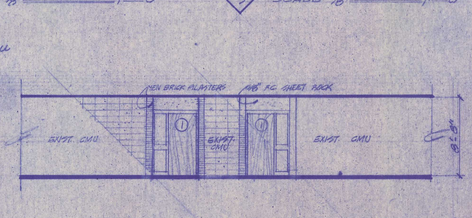
11/A LIBRARIAN

SCALE 1/4" = 1'-0"



12/A CLASS ROOM

SCALE 1/4" = 1'-0"



13/A CORRIDOR

SCALE 1/8" = 1'-0"

Pauline Walburn
Dale Decoy

Eugene Griffiths

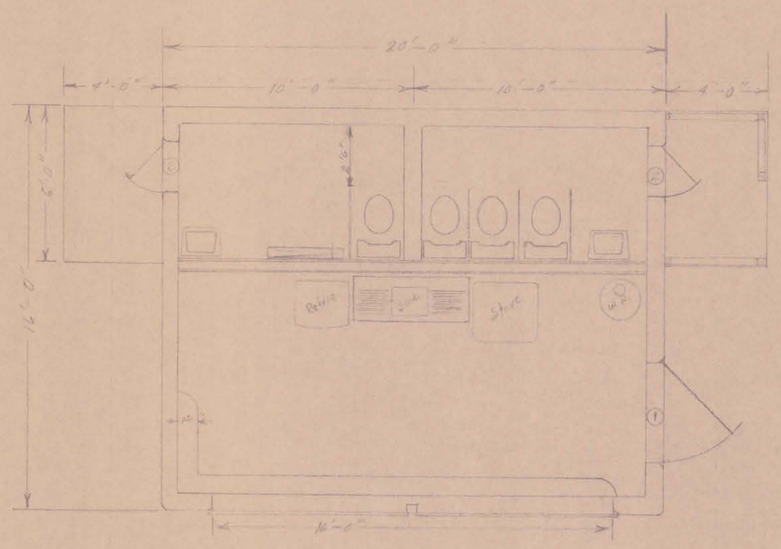
EUGENE GRIFFITHS / CO ARCHITECTS - INTERIOR CONSULTANTS
A I A
716 EASTSIDE BLVD. HASTINGS, NEBRASKA PHONE 2-2615

ELEVATIONS
CAMBRIDGE SCHOOL ADDITION

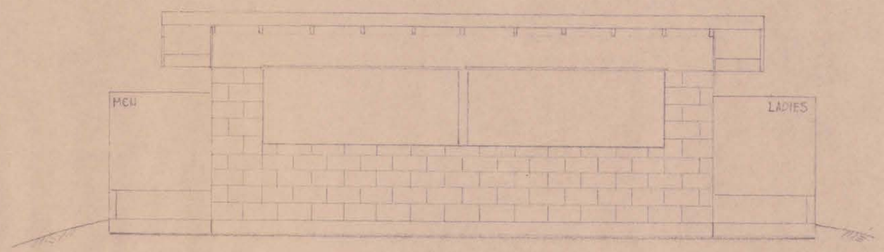
JOB NO. 1962

DRAWN BY KAM
SCALE: 1/8" & 1/4" = 1'-0"
DATE:
REVISED

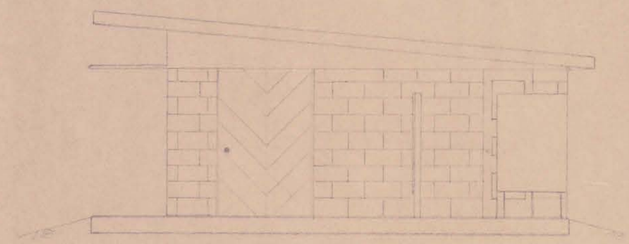
SHEET NO. 10 OF 13 SHEETS



Floor Plan
1/4" = 1'-0"



Front Elevation
1/4" = 1'-0"



Side Elevation
1/4" = 1'0"