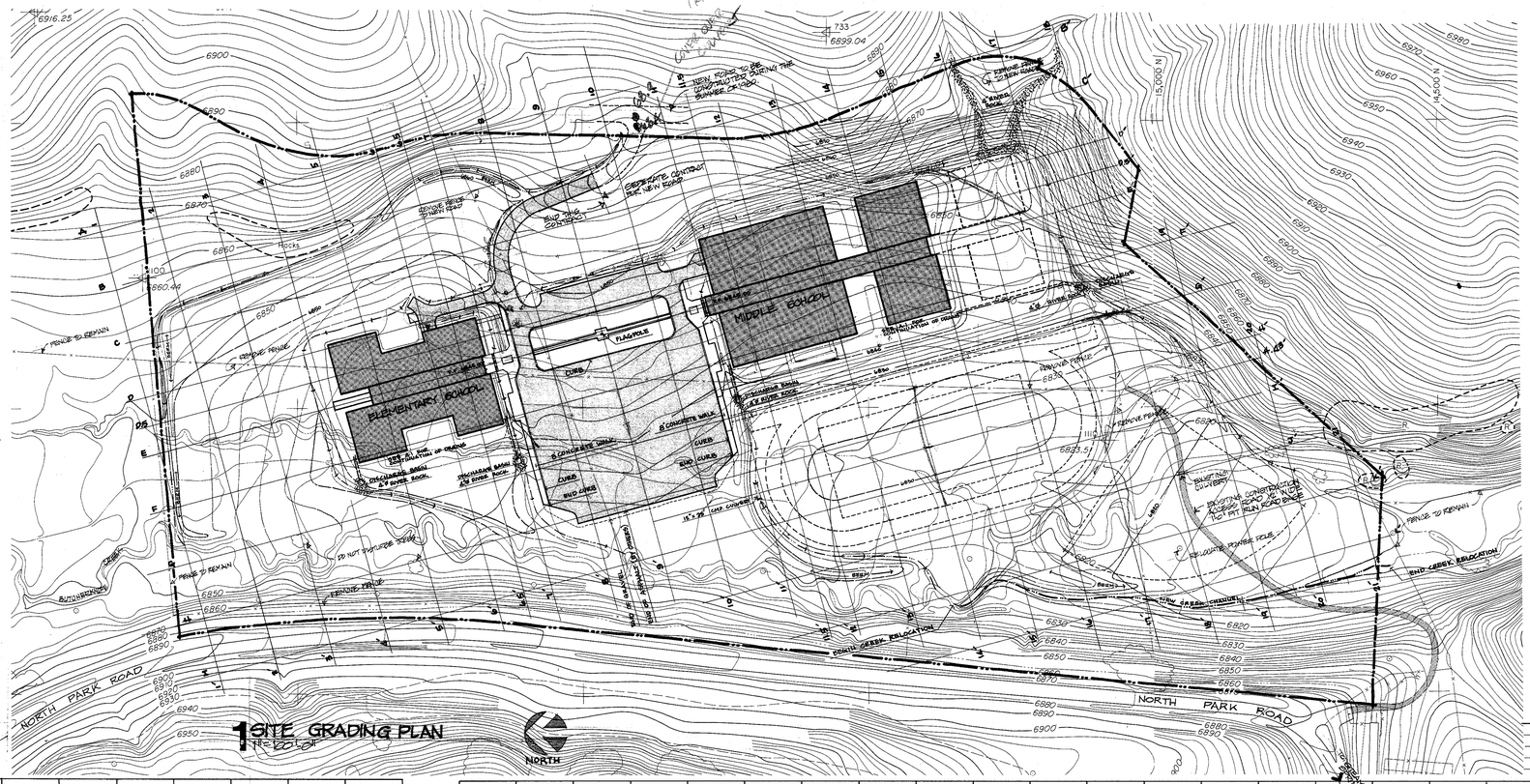
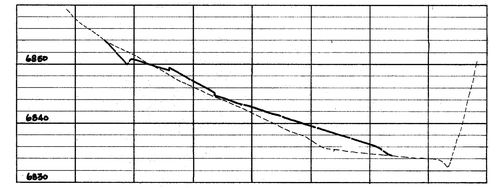
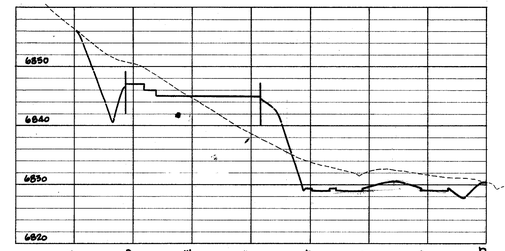


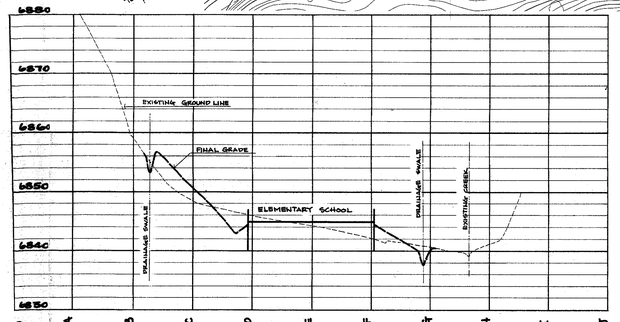

1 SITE GRADING PLAN
1"=100'



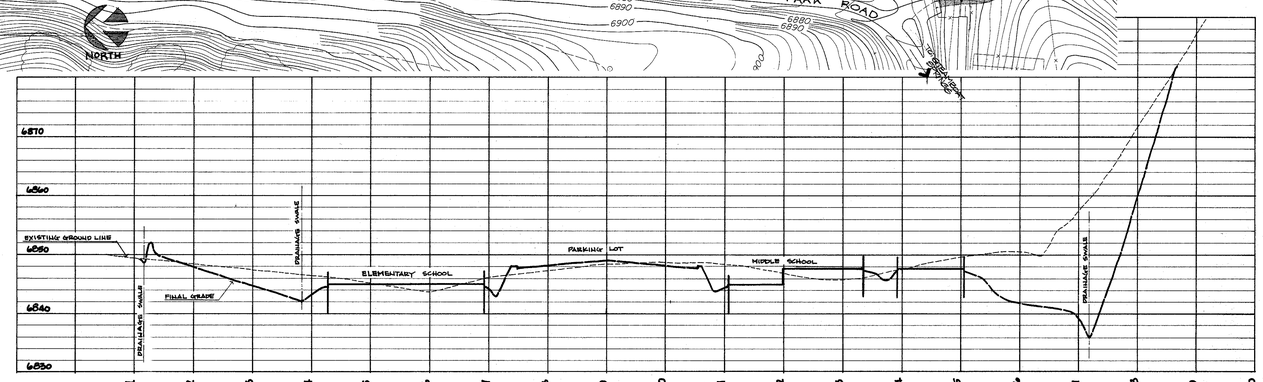

2 SECTION 9-9'
HORIZ. 1"=100'/ VERT. 1"=10'



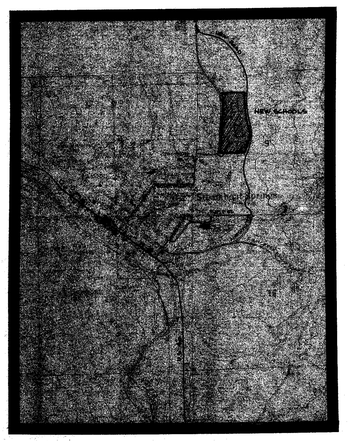

3 SECTION 11.5 - 11.5'
HORIZ. 1"=100'/ VERT. 1"=10'



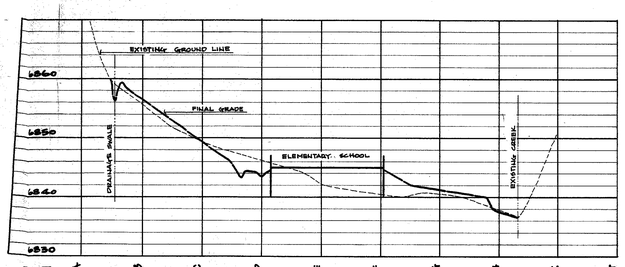

4 SECTION 5-5'
HORIZ. 1"=100'/ VERT. 1"=10'



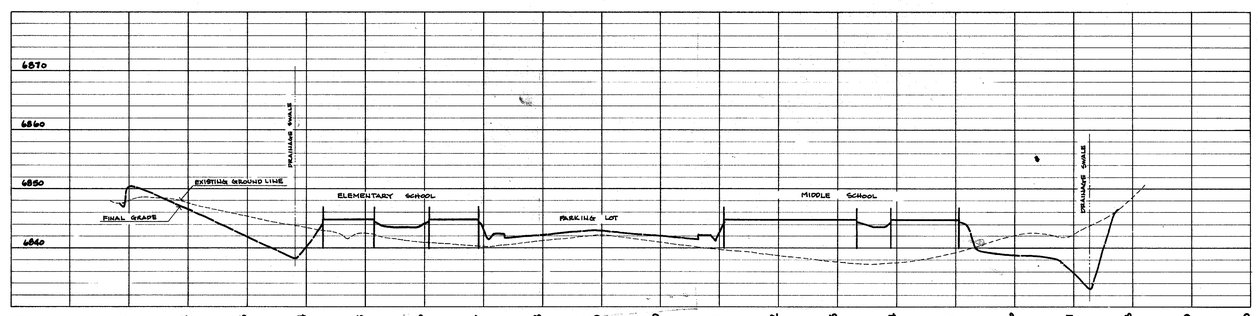

5 SECTION D.5 - D.5'
HORIZ. 1"=100'/ VERT. 1"=10'




6 VICINITY MAP
SCALE: PBR USGS 7½ MIN QUADS
1"=2000'




8 SECTION 6.5 - 6.5'
HORIZ. 1"=100'/ VERT. 1"=10'




9 SECTION F - F'
HORIZ. 1"=100'/ VERT. 1"=10'

## 7 NOTES:

- REFER TO ⅛" SCALE BUILDING PLANS FOR MORE DETAILED INFORMATION.
- SECTION GRIDS ARE @ 100' INTERVALS.
- SECTIONS SHALL PREVAIL IN THE EVENT OF DISCREPENCIES THE CONTRACTOR SHALL REPORT THEM TO THE ARCHITECT IMMEDIATELY FOR DECISION.
- CREEK RELOCATION SHALL BE STAKED. THE ARCHITECT SHALL INSPECT THE ALIGNMENT PRIOR TO THE COMMENCEMENT OF EARTHWORK.
- REFER TO THIS PLAN FOR FENCES TO BE RETAINED OR REMOVED. ROLL UP ALL REMOVED FENCE WIRE, SALVAGE ALL FENCE POSTS, AND STOCK-PILE ON SITE.
- ALL ROUGH GRADING OF THE SITE IS INCLUDED IN THIS CONTRACT INCLUDING CREEK RELOCATION, TOPSOIL STRIPPING, TOPSOIL STOCK-PILING, AND TOPSOIL REDISTRIBUTION.
- EXISTING TREES ON THE SITE SHALL NOT BE DISTURBED. SPECIFIC APPROVAL TO OPERATE HEAVY EQUIPMENT OR STOCK-PILE MATERIALS WITHIN 30' OF ANY EXISTING TREE MUST BE ACQUIRED IN WRITING FROM THE ARCHITECT.

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSE C

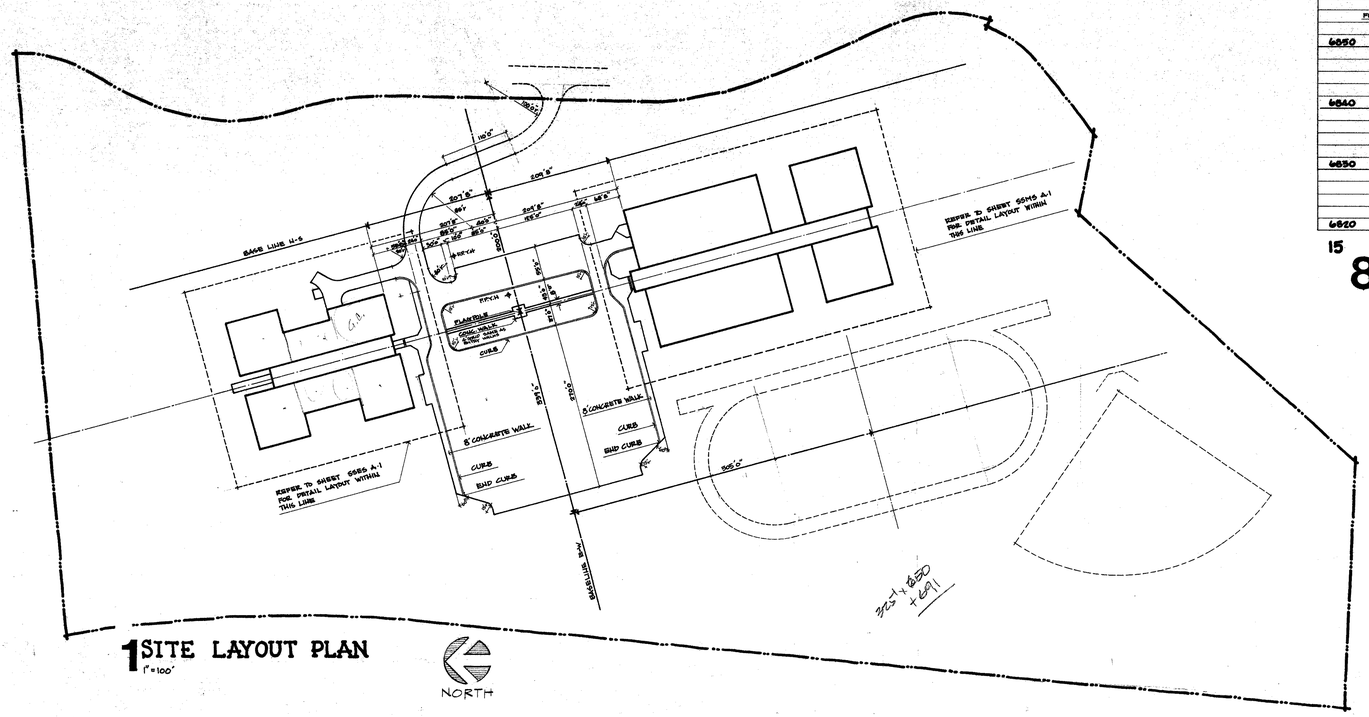
STATE OF COLORADO
Stanford Ralston Roth
William C. Muchow
8-259
LICENSED ARCHITECTS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Sato Fuma & Associates, Co., Mechanical Engineers, Denver
Leland D. Cox Associates, Inc., Electrical En Denver

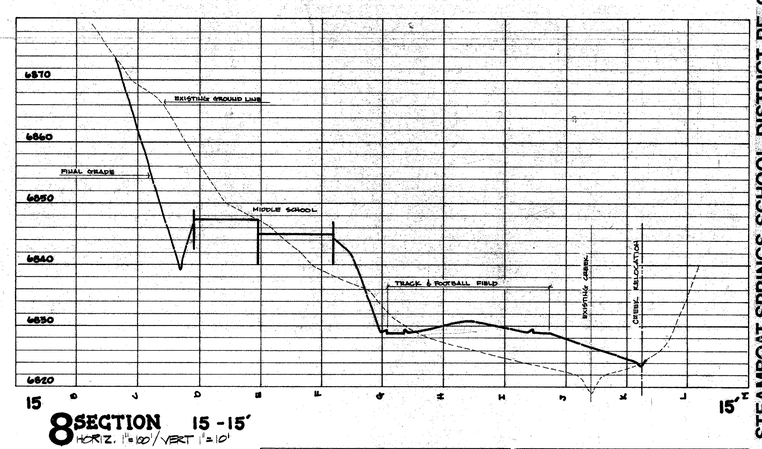
TITLE SITE GRADING PLAN SECTIONS

JOB NO. 7818-SSSD
DRAWN WGF
CHECKED RSR
DATE 8/MAY/1992
REVISED
DRAWING BER

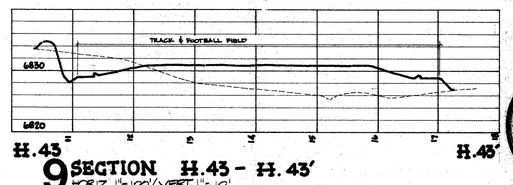



## 1 SITE LAYOUT PLAN
1"=100'

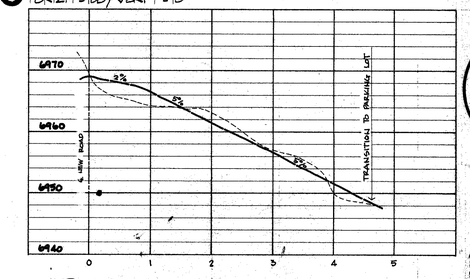
NORTH



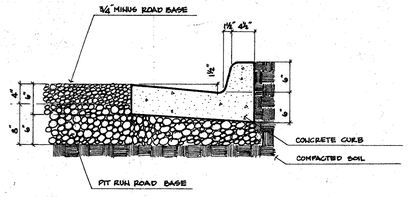

## 8 SECTION 15 - 15'
HORIZ. 1"=100'/VERT 1"=10'



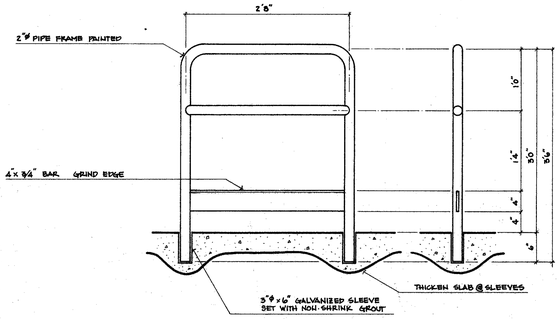

## 9 SECTION H.43 - H.43'
HORIZ. 1"=100'/VERT 1"=10'



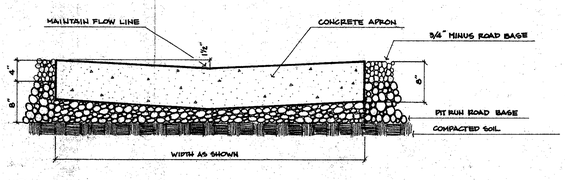

## 10 SECTION DRIVEWAY
HORIZ. 1"=100'/VERT 1"=10'



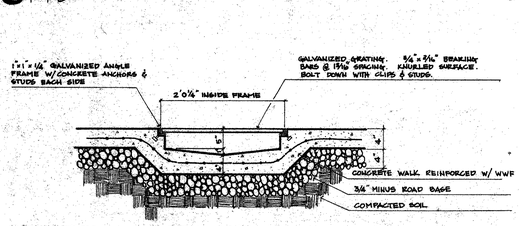

## 2 TYPICAL CURB & GUTTER
1"=1'-0"



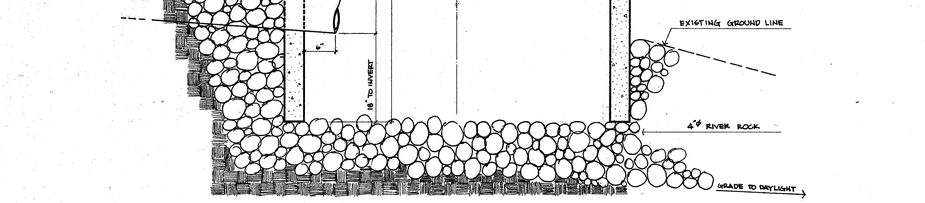

## 5 FOOTSCRAPER
1"=1'-0"



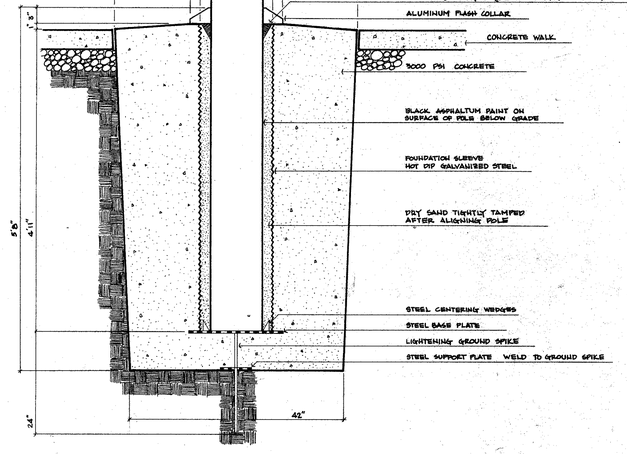

## 3 TYPICAL CONCRETE APRON
1"=1'-0"




## 4 ENTRY WALK GRATING
1"=1'-0"




## 6 ROOF DRAIN DISCHARGE BASIN
1"=1'-0"




## 7 FLAGPOLE BASE
1"=1'-0"

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SS E

STATE OF COLORADO
Robert Sanford Ralston 8580
William Muchow 8258
LICENSED
SEAL/EMBOSSER

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

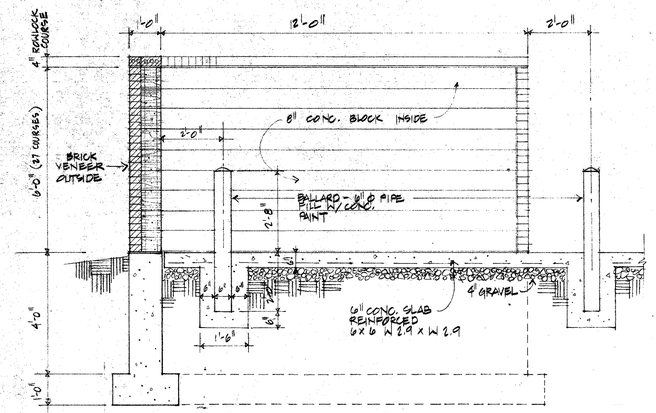
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE SITE LAYOUT PLAN & DETAILS

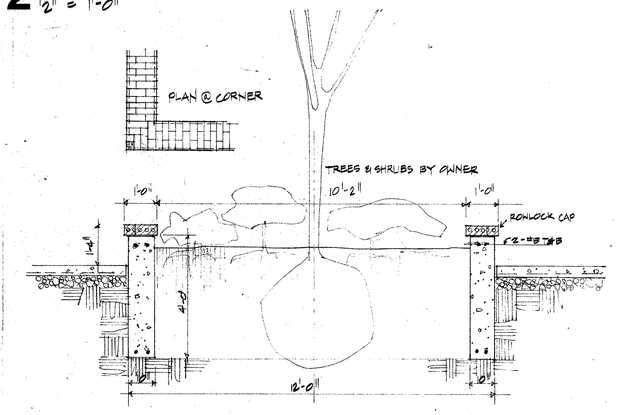
JOB NO. 218-85DAB
DRAWN WSF
CHECKED SER
DATE 8 MAY 1986
REVISI

DING NUMBER

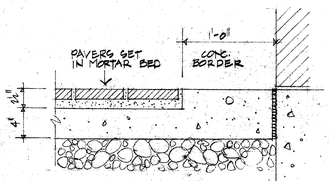
SP-2



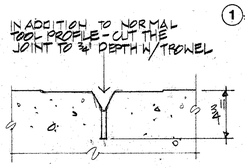

**2** DUMPSTER ENCLOSURE - SECTION
1/2" = 1'-0"



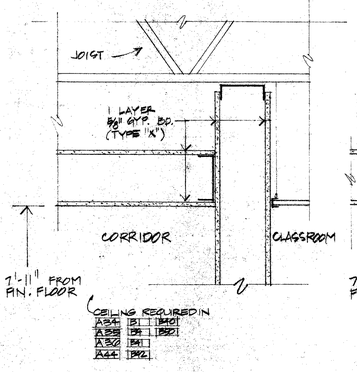

**3** FIXED PLANTERS - TYPICAL - SECTION
1/2" = 1'-0"



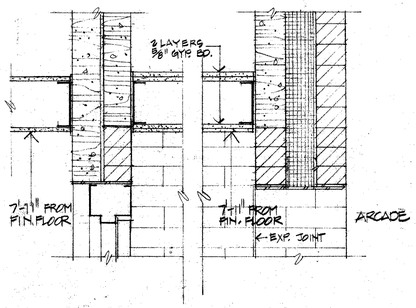

**4** BRICK PAVER
1/2" = 1'-0"
ALT. NO. 2



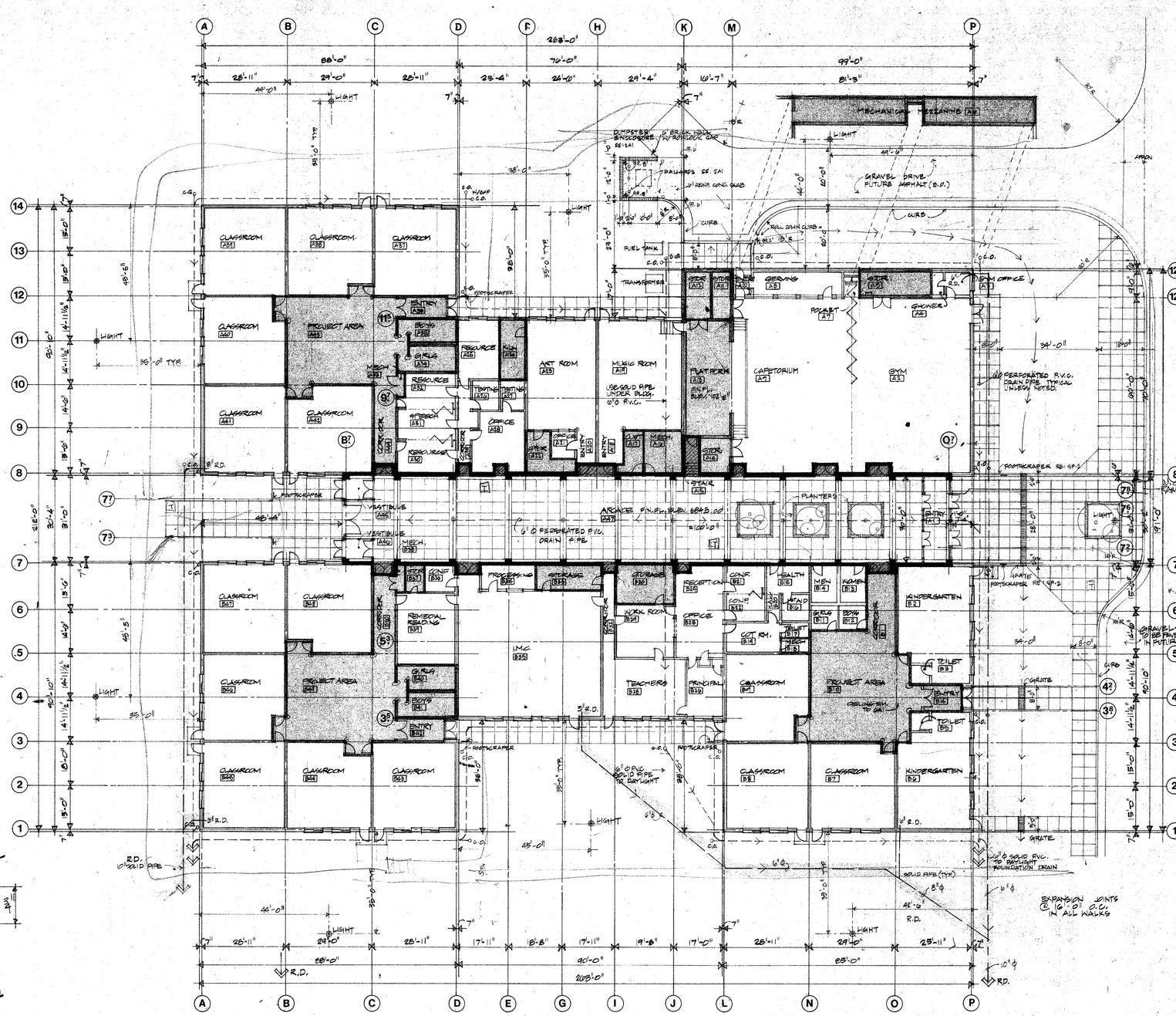

**5** TOOLED JOINT
FULL SIZE
FOR POSITIVE WEAK PLANE




**6** CEILING @ CORRIDORS TO PROJECT AREAS (1 HOUR CEILING)
1/2" = 1'-0"




**7** CEILING @ ARCADE RECESS (2 HOUR CEILING)
1/2" = 1'-0"




**1** KEY PLAN - FIRE RATING PLAN
1/16" = 1'-0"

NORTH

KEY:
- 1 HOUR FIRE RATED PARTITION
- 2 HOUR FIRE RATED PARTITION
- 1 HOUR FIRE RATED CEILING (MIN. 1 LAYER 5/8" TYPE 'X')
- 2 HOUR FIRE RATED CEILING

NOTE: ALL RATED METAL STUD PARTITIONS TO BE 5/8" TYPE 'X' GYP. BD. BOTH SIDES

## MATERIAL INDICATIONS

| | | | |
|---|---|---|---|
| BRICK | RIGID INSULATION | EARTH | FINISHED WOOD |
| CONCRETE BLOCK | STEEL | CARPET | PLYWOOD |
| METAL STUD WALL | BATT INSULATION | GYPSUM BOARD | |
| CONCRETE | GRAVEL | ROUGH LUMBER | |

# SSE

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

STATE OF COLORADO — Robert Sanford Ralston — 1981 — LICENSED ARCHITECT

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver
LyKken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE

JOB NO. 7807 - 035-A
DRAWN CGJ JMK
CHECKED RSR
DATE 9-14-80
REVISED

DRAWING NUMBER
**A-1**

# 1 FLOOR PLAN - SECTION "A"
1/8" = 1'-0"

NORTH

# 2 CEILING/WALL CONTROL JT.
FULL SIZE TYPICAL THROUGHOUT

# 3 STAIR SECTION & ELEVATION
1/2" = 1'-0" MUSIC ROOM

# 4 APRON FACING AT FRONT OF PLATFORM
1/2" = 1'-0"

KEY PLAN

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO

STEAMBOAT SPRINGS

SSES

STATE OF COLORADO
Robert Sanford Ralston 8-881
William Muchow 8-8881
LICENSED ARCHITECTS


Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc. Electrical Engineers, Denver


TITLE
FLOOR PLAN
SECTION "A"

| | |
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| JOB NO. | 1307-438 A |
| DRAWN | CGJ |
| CHECKED | RSR |
| DATE | 8 MAY 80 |
| REVISED | |

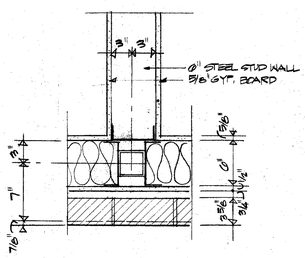
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A-2

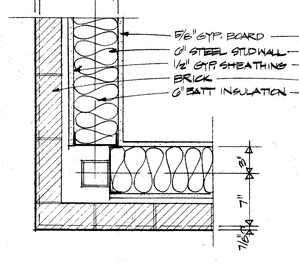
OF 13

# 1 FLOOR PLAN - SECTION "B"
1/8" = 1'-0"

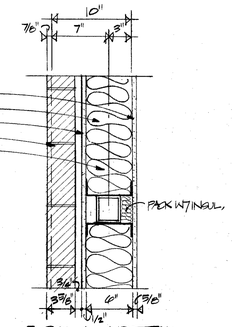
NORTH



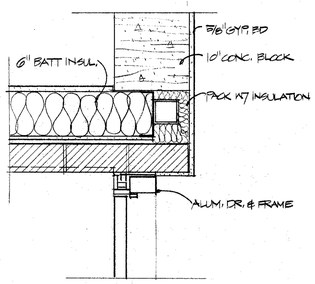

## 2 COLUMN DETAIL
1 1/2" = 1'-0"



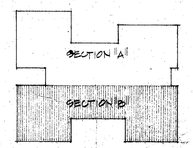

## 3 COLUMN DETAIL
1 1/2" = 1'-0"




## 4 COLUMN DETAIL
1 1/2" = 1'-0"




## 5 COLUMN (3.5)-(L)
1 1/2" = 1'-0"




KEY PLAN

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

STATE OF COLORADO — Robert Sanford Ralston — Reg. No. 8-2809 — William C. Muchow — LICENSED ARCHITECTS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Runa & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

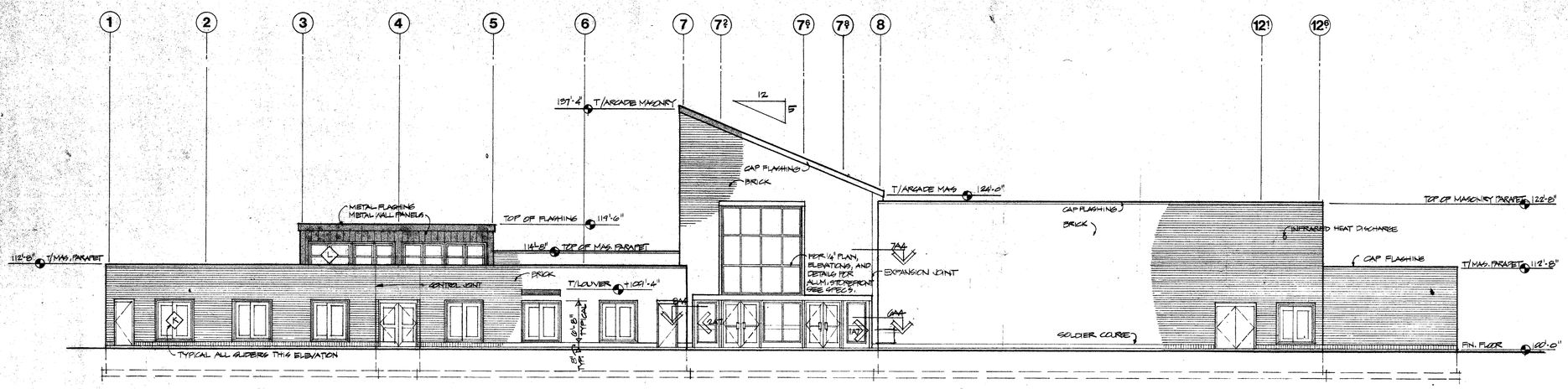
TITLE
FLOOR PLAN
SECTION "B"

| | |
|---|---|
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| DRAWN | CBJ JMK |
| CHECKED | RSR |
| DATE | 6 MAY 1980 |
| REVISED | |

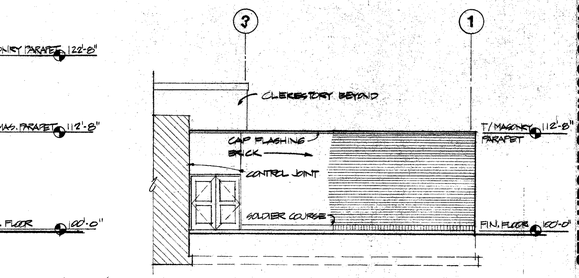
DRAWING NUMBER

A-3

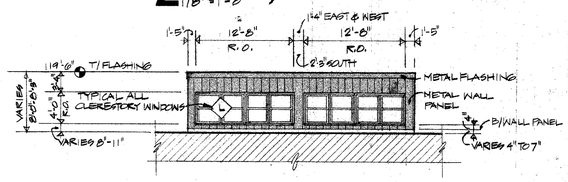
OF 13 DR



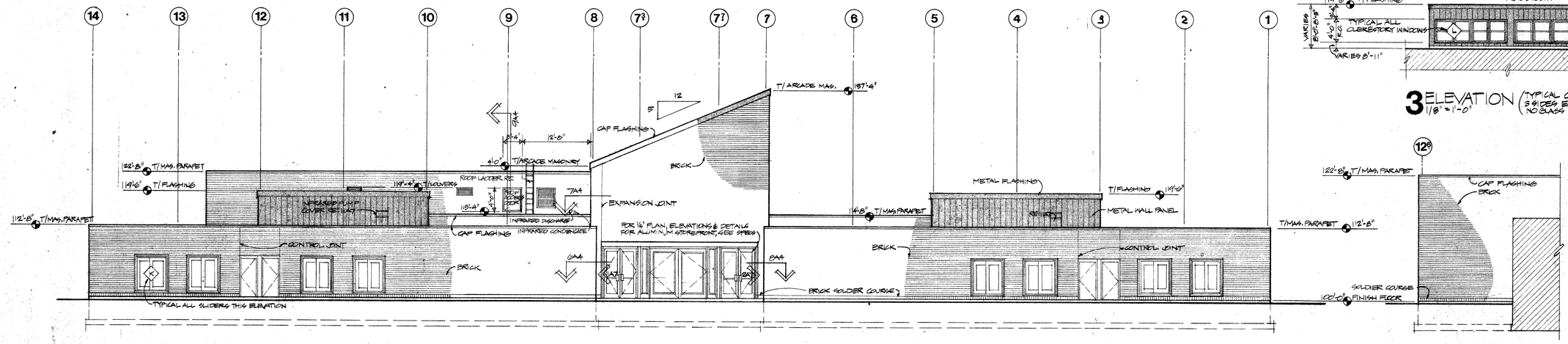

**1** SOUTH ELEVATION
1/8" = 1'-0"



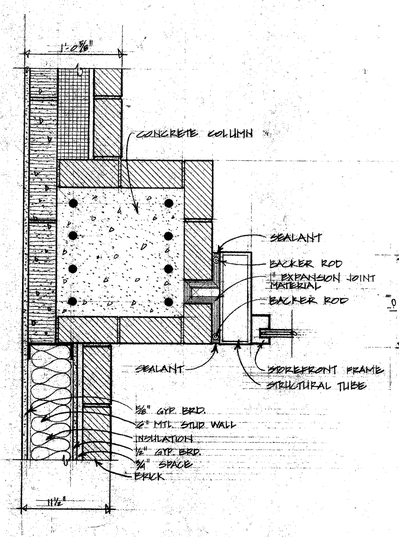

**2** ELEVATION (NORTH WALL) G.W. PDD
1/8" = 1'-0"



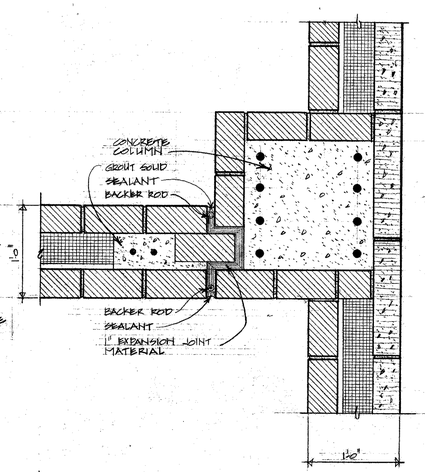

**3** ELEVATION (TYPICAL CLERESTORY 3 SIDES EACH PROJECT AREA - NO GLASS NORTH SIDE)
1/8" = 1'-0"



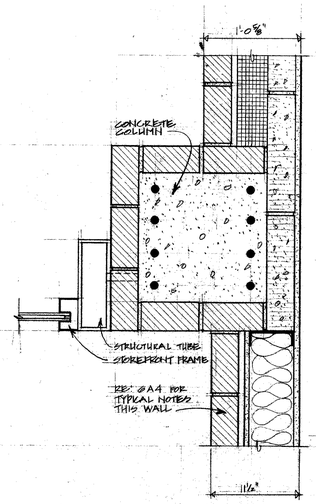

**4** NORTH ELEVATION
1/8" = 1'-0"



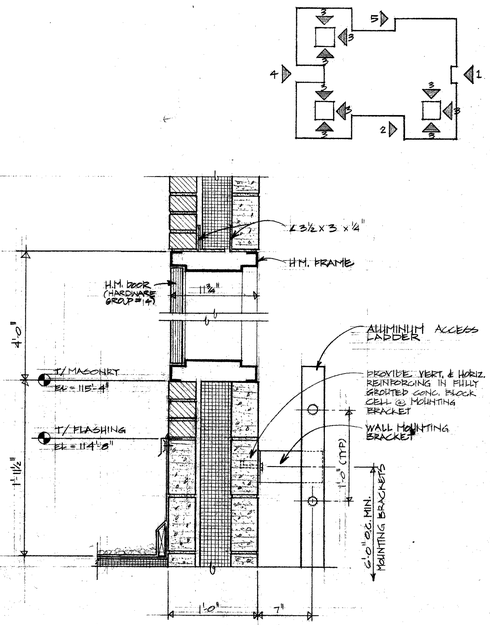

**6** EXPANSION DETAIL
12" = 1'-0"
RE:



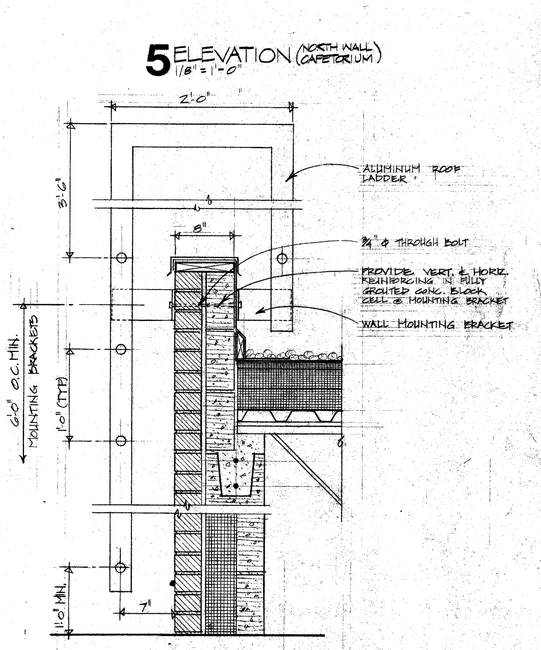

**7** EXPANSION DETAIL
12" = 1'-0"
RE:




**8** DETAIL @ ARCADE
12" = 1'-0"
RE:




**9** ACCESS LADDER
1½" = 1'-0"
RE:




**10** ROOF LADDER
1½" = 1'-0"
RE:

**5** ELEVATION (NORTH WALL (CAFETERIUM))
1/8" = 1'-0"


STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO
STEAMBOAT SPRINGS
SSES

STATE OF COLORADO
Robert Sanford Ralston 8381
William Muchow 8283
REGISTERED ARCHITECTS

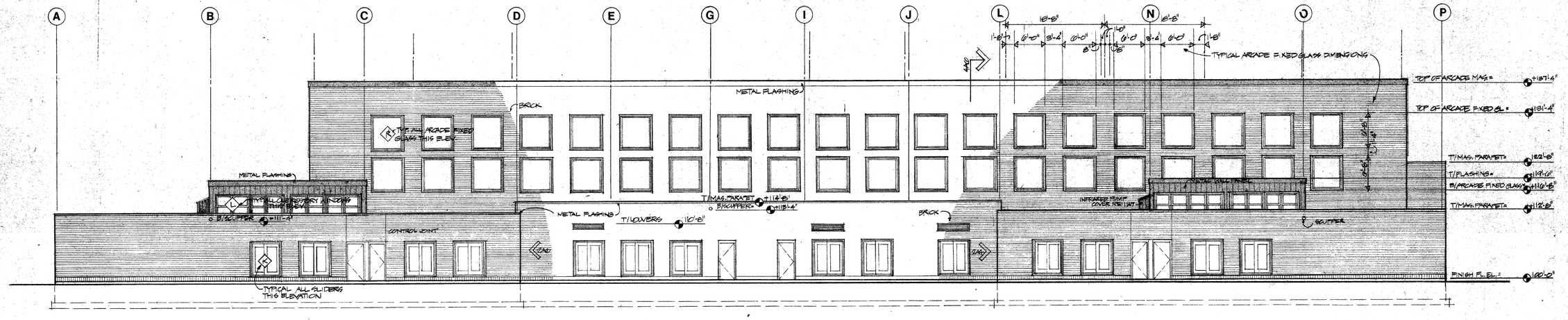
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, inc., Electrical Engineers, Denver


TITLE
ELEVATIONS
DETAILS

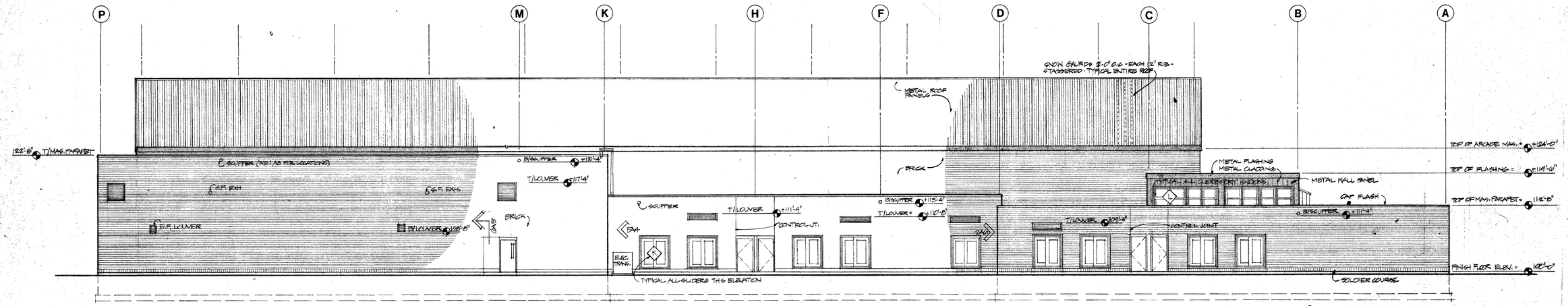
JOB NO. 7707-03GA
DRAWN JMK-GHG
CHECKED RSR
DATE 6 MAY 80
REVISED

DRAWING NUMBER
A-4

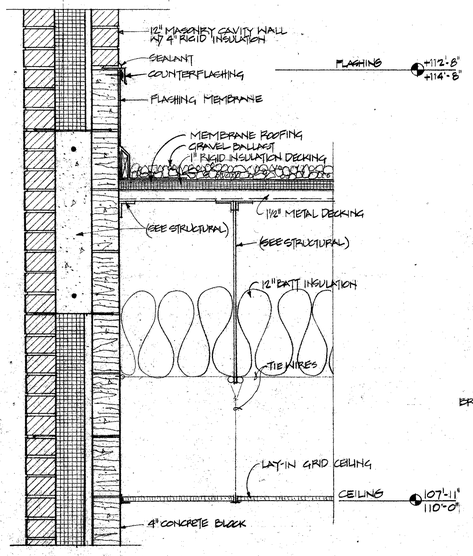
OF 13 DRA



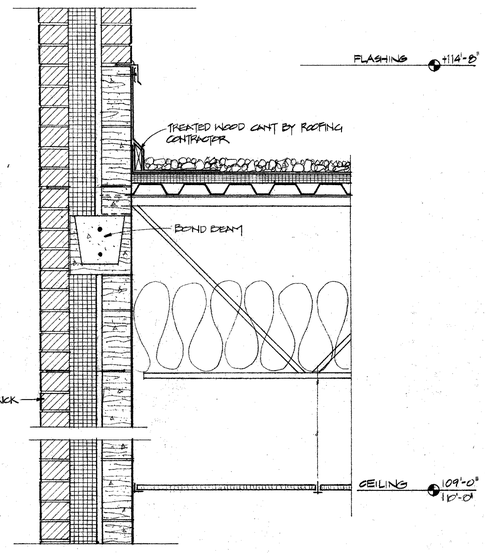

**1** WEST ELEVATION
1/8" = 1'-0"



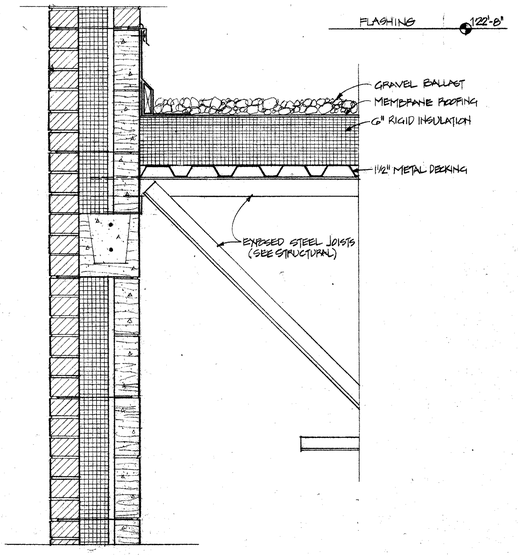

**2** EAST ELEVATION
1/8" = 1'-0"



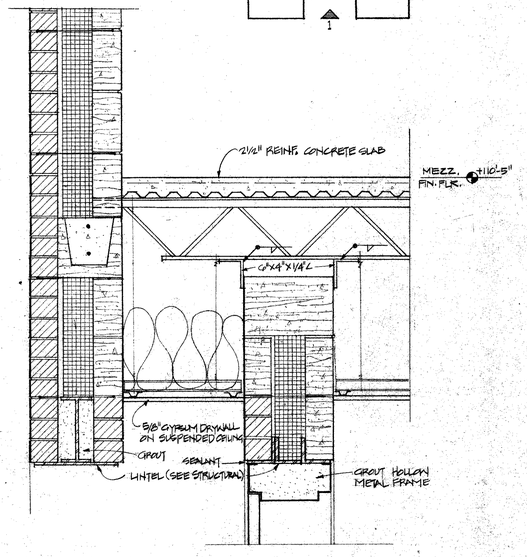

**3** SECTION
1½" = 1'-0"




**4** SECTION
1½" = 1'-0"

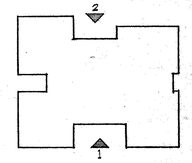



**5** SECTION
1½" = 1'-0"




**6** SECTION
1½" = 1'-0"

"NOTES" TYPICAL THIS SHEET




STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

STATE OF COLORADO
Robert Sanford Ralston
Reg. No. 8158
William C. Lykken
Reg. No. 20399
LICENSED ARCHITECTS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

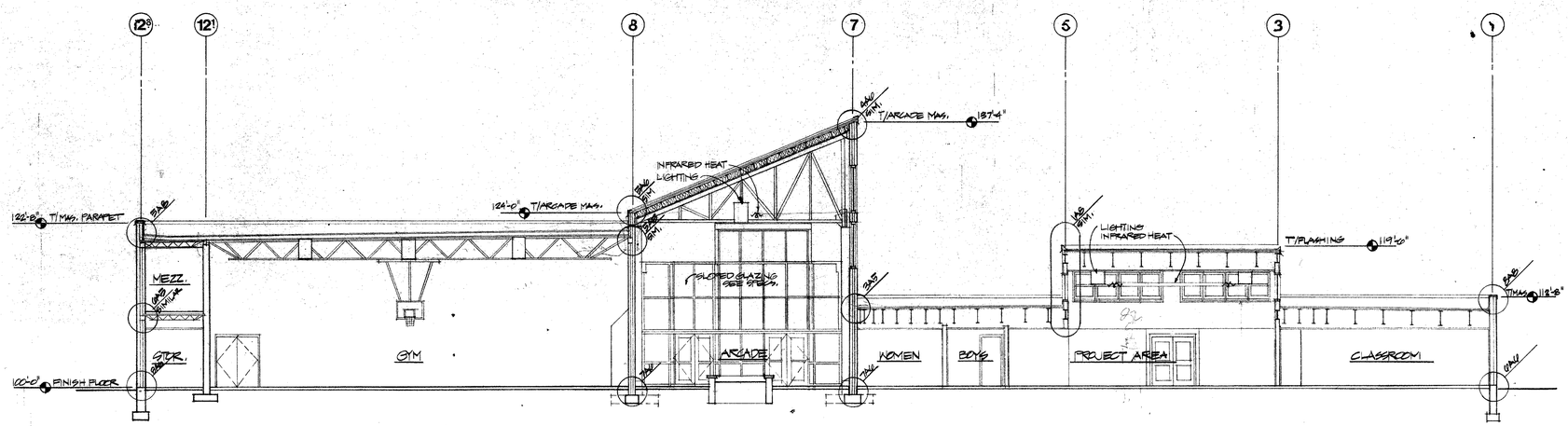
TITLE
WEST ELEVATION
EAST ELEVATION
BUILDING SECTIONS

| | |
|---|---|
| JOB NO. | 7907-03A |
| DRAWN | JMK |
| CHECKED | RSR |
| DATE | 8 MAY 80 |
| REVISED | |

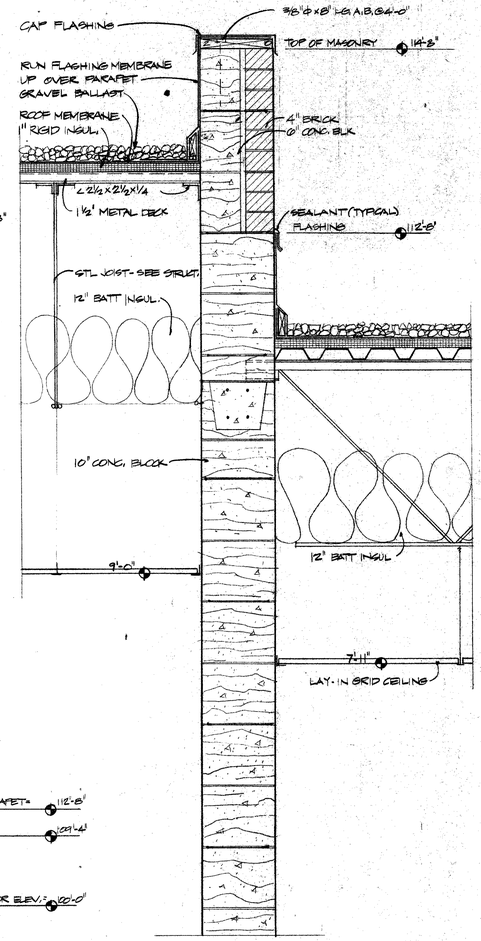
DRAWING NUMBER

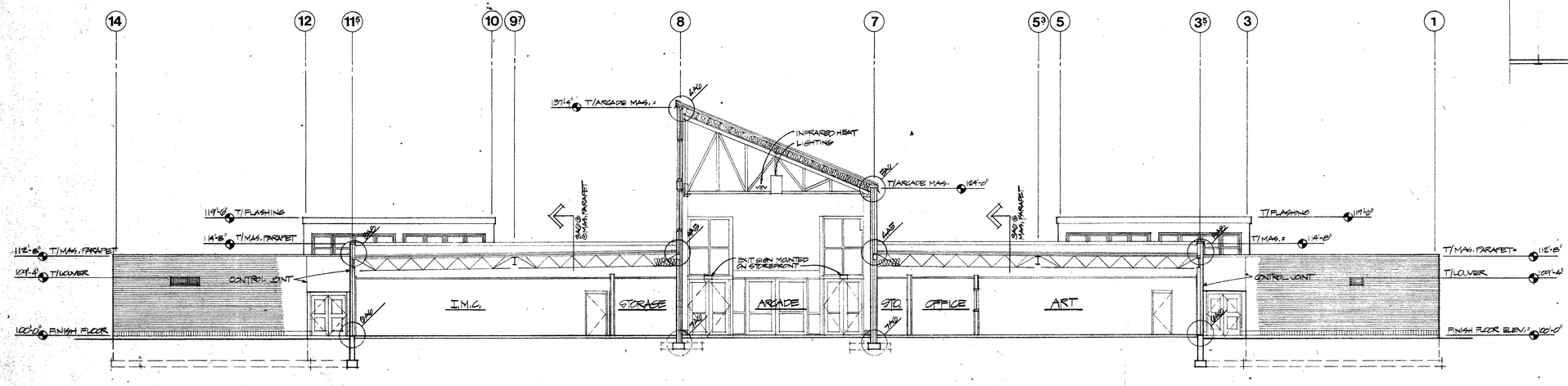
A-5

OF 13 DRAWINGS

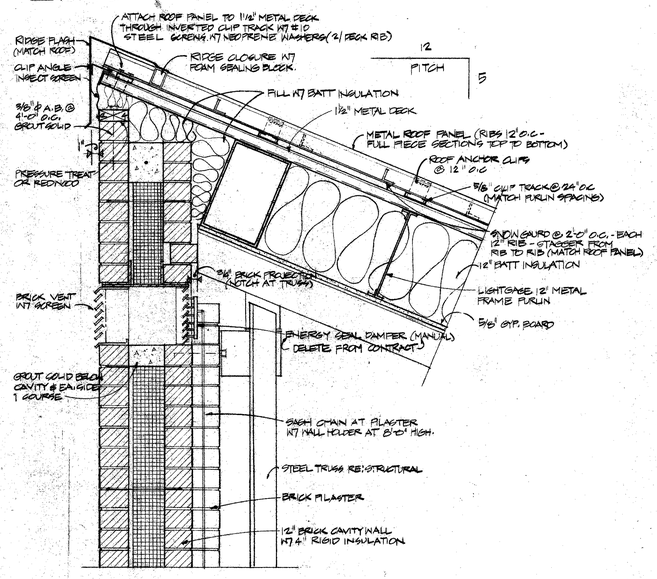



**1** BUILDING SECTION
1/8" = 1'-0"

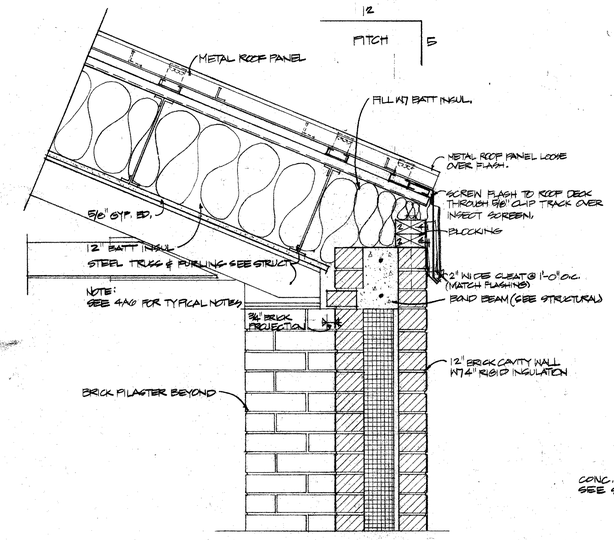


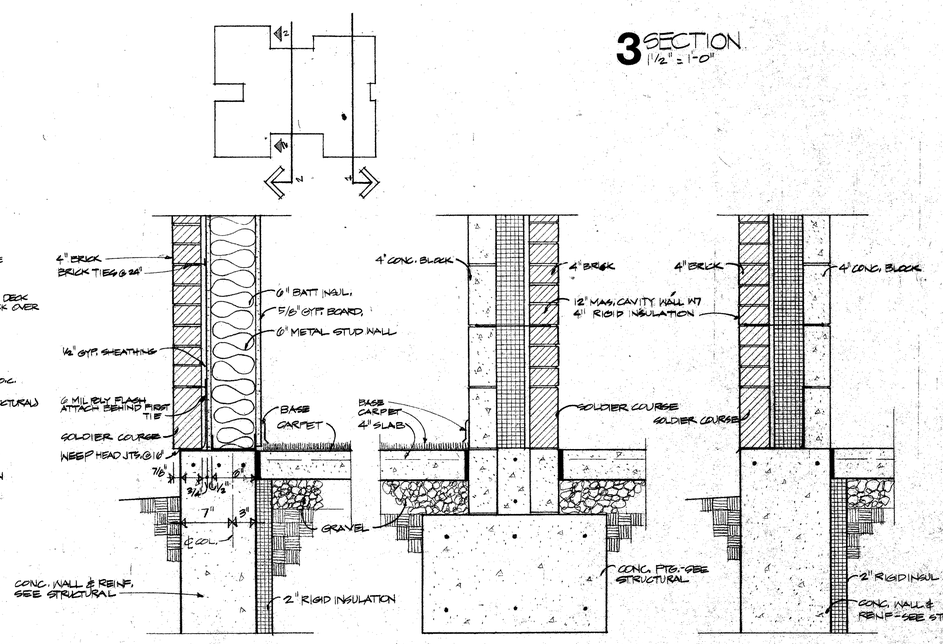

**2** BUILDING SECTION
1/8" = 1'-0"




**4** SECTION
1½" = 1'-0"




**5** SECTION
1½" = 1'-0"




**6** SECTION

**7** SECTION
1½" = 1'-0"

**8** SECTION
1½" = 1'-0"

**3** SECTION
1½" = 1'-0"

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

STATE OF COLORADO — Robert Stanford Ralston — 8-3581 — REGISTERED ARCHITECT
STATE OF COLORADO — William Muchow — 8-3593 — REGISTERED ARCHITECT

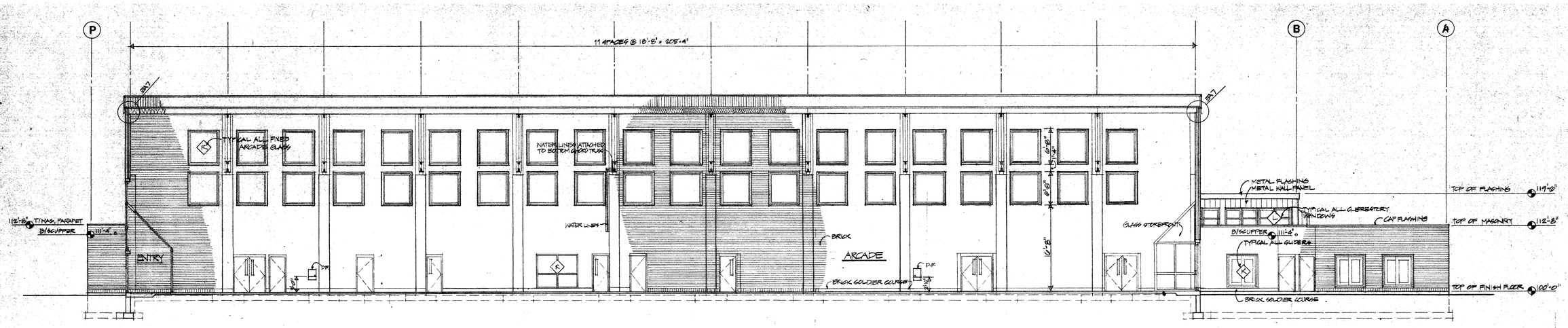
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

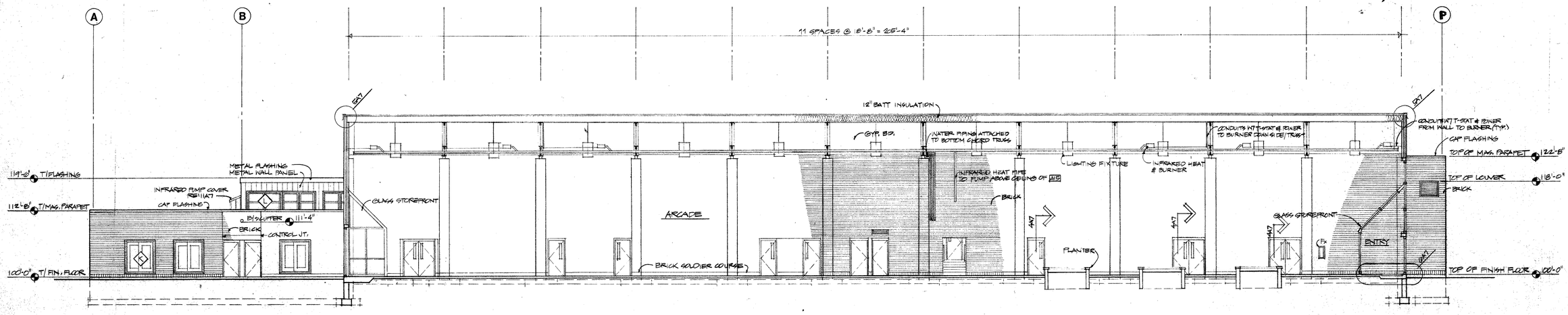
TITLE
BUILDING SECTIONS
WALL SECTIONS

JOB NO. 7907-058-A
DRAWN JMK
CHECKED RSR
DATE 8 MAY 1980
REVISED

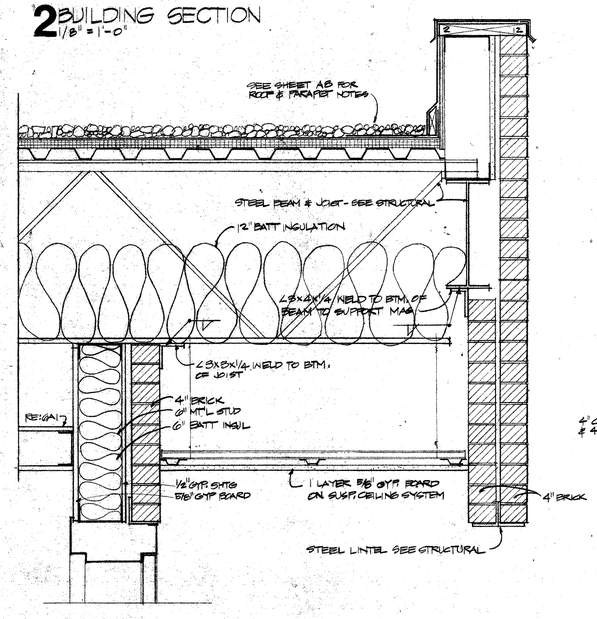
DRAWING NUMBER
A-6
OF 13 DRAWINGS



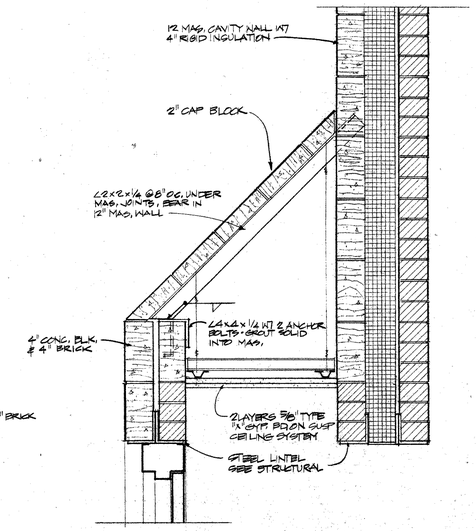

**1** BUILDING SECTION
1/8" = 1'-0"



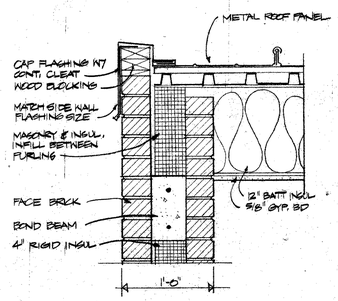

**2** BUILDING SECTION
1/8" = 1'-0"



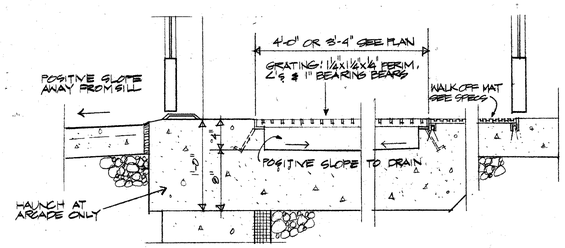

**3** SECTION
1 1/2" = 1'-0"



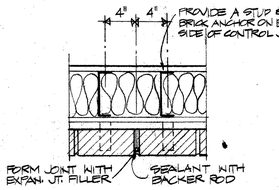

**4** SECTION
1 1/2" = 1'-0"



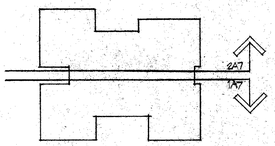

**5** SECTION @ ARCADE
1 1/2" = 1'-0"

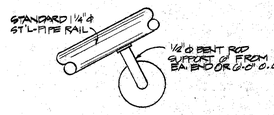



**6** ENTRY GRATE & WALK-OFF MAT
1 1/2" = 1'-0"

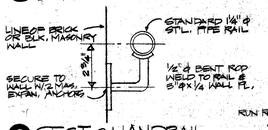



**7** BRICK VENEER CONTROL JOINT DETAIL
1 1/2" = 1'-0"

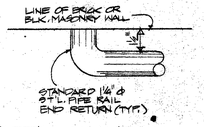


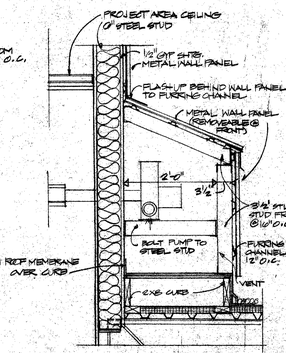

**8** DT'L @ HANDRAIL
3" = 1'-0"




**9** SECT. @ HANDRAIL
3" = 1'-0"




**10** DT'L @ HANDRAIL
3" = 1'-0"




**11** PUMP COVER DETAIL
1 1/2" = 1'-0"


STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

STATE OF COLORADO
Robert Sanford Ralston
Reg. No. 8582
William C. Muchow
No. 2882
LICENSED ARCHITECTS

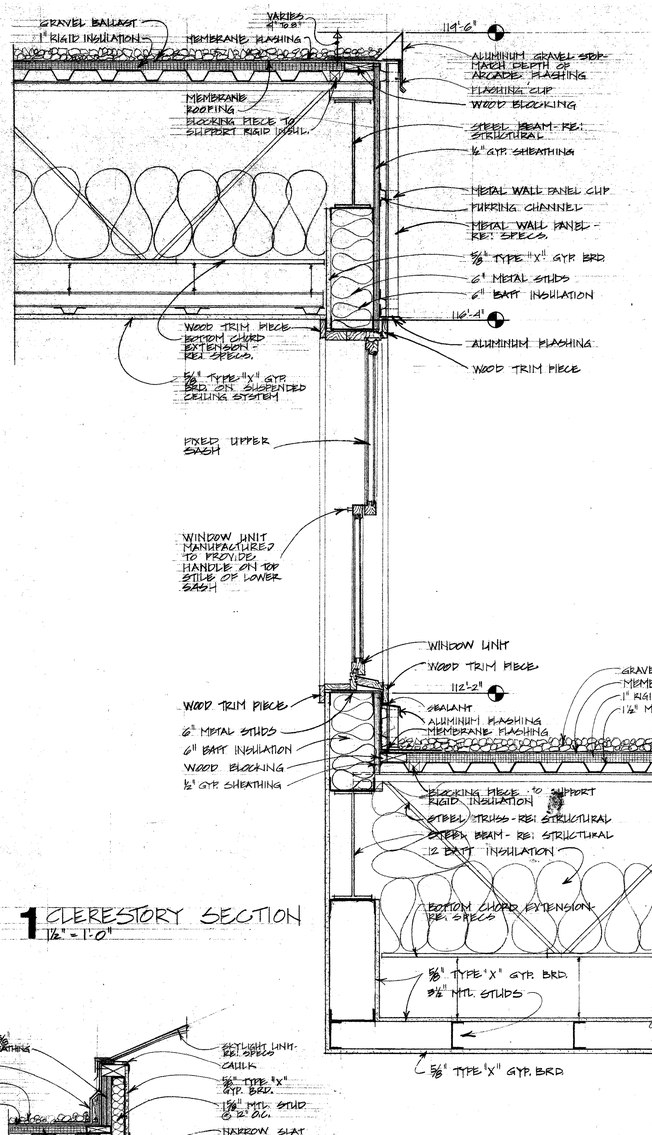
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

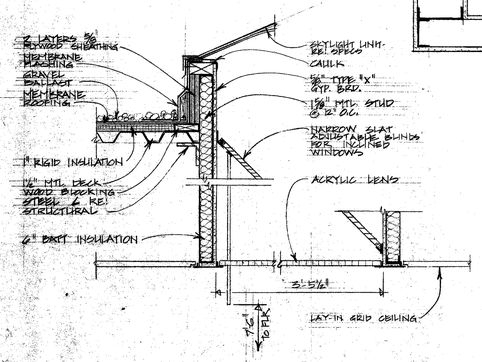

TITLE
BUILDING SECTIONS DETAILS

JOB NO. 7707-098A
DRAWN JMK
CHECKED
DATE 8 MAY 1980
REVISED

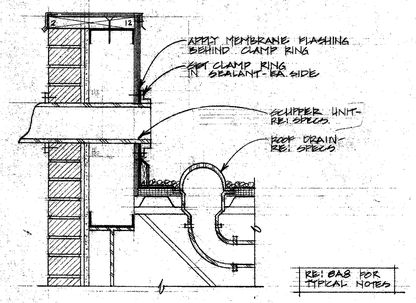
DRAWING NUMBER
A-7
OF 13 DRAWINGS



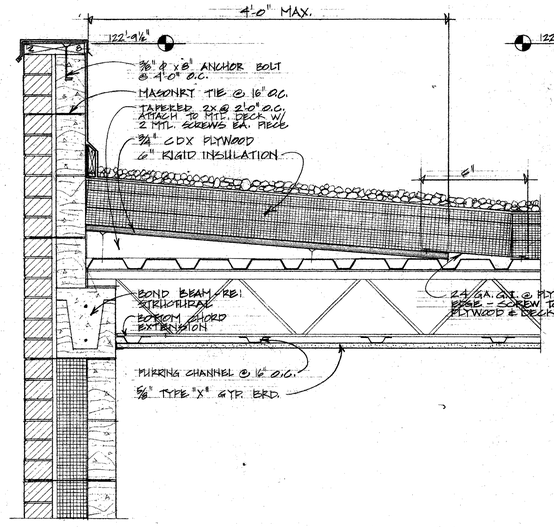

## 1 CLERESTORY SECTION
1½" = 1'-0"




## 3 SKYLIGHT DETAIL
1½" = 1'-0"

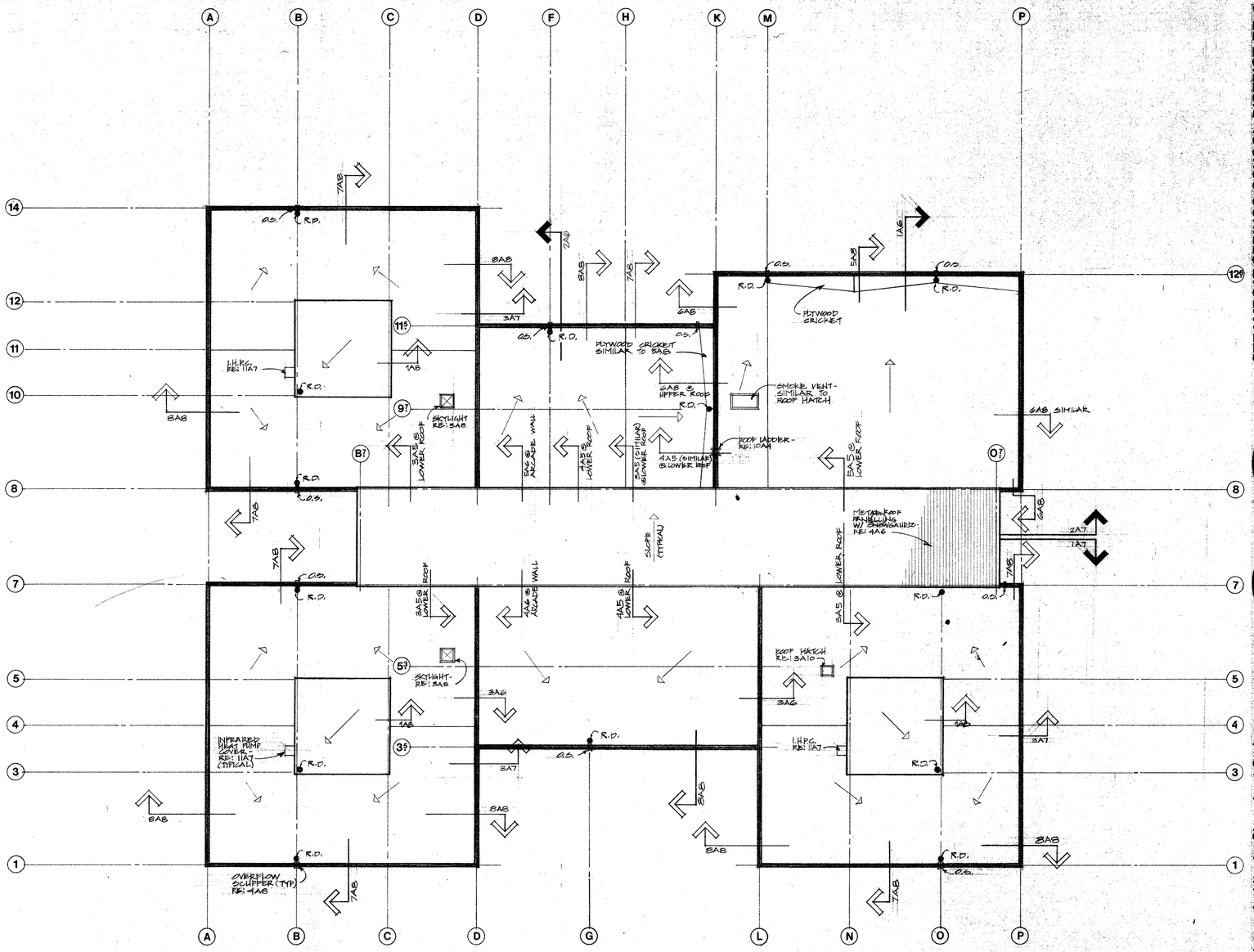



## 4 SCUPPER DETAIL
1½" = 1'-0"



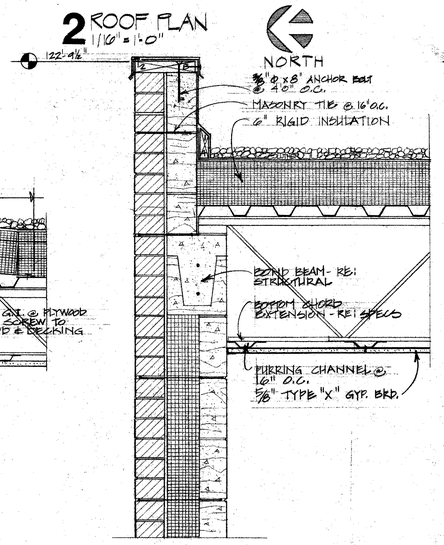

## 5 SECTION
1½" = 1'-0"

REI: BAB FOR TYPICAL NOTES



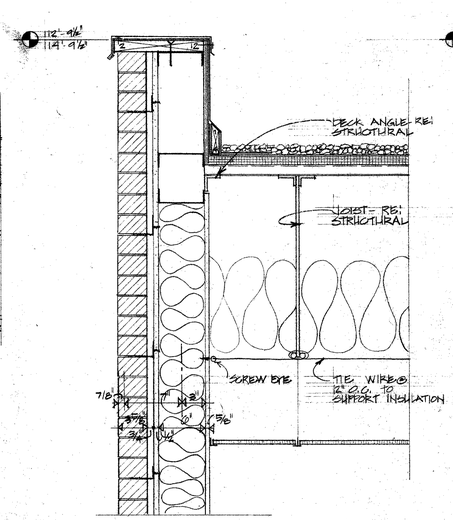

## 2 ROOF PLAN
1/16" = 1'-0"

NORTH



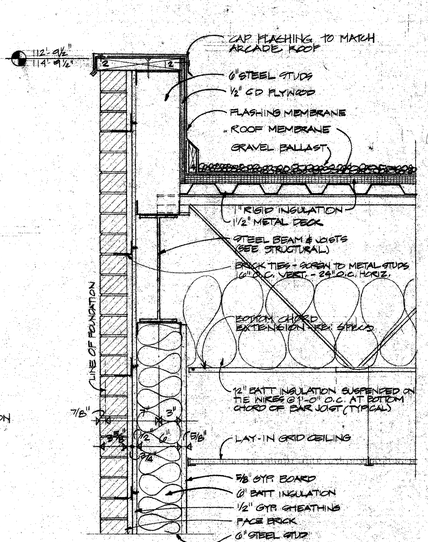

## 6 SECTION
1½" = 1'-0"

REI: BAB FOR TYPICAL NOTES




## 7 SECTION
1½" = 1'-0"

REI: BAB FOR TYPICAL NOTES




## 8 SECTION
1½" = 1'-0"

NOTES ON THIS SECTION ARE TYPICAL

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

STATE OF COLORADO — REGISTERED ARCHITECTS — Robert Sanford Ralston — Gianford Muchow — William Lykken — Mark Kramer — 8-269

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

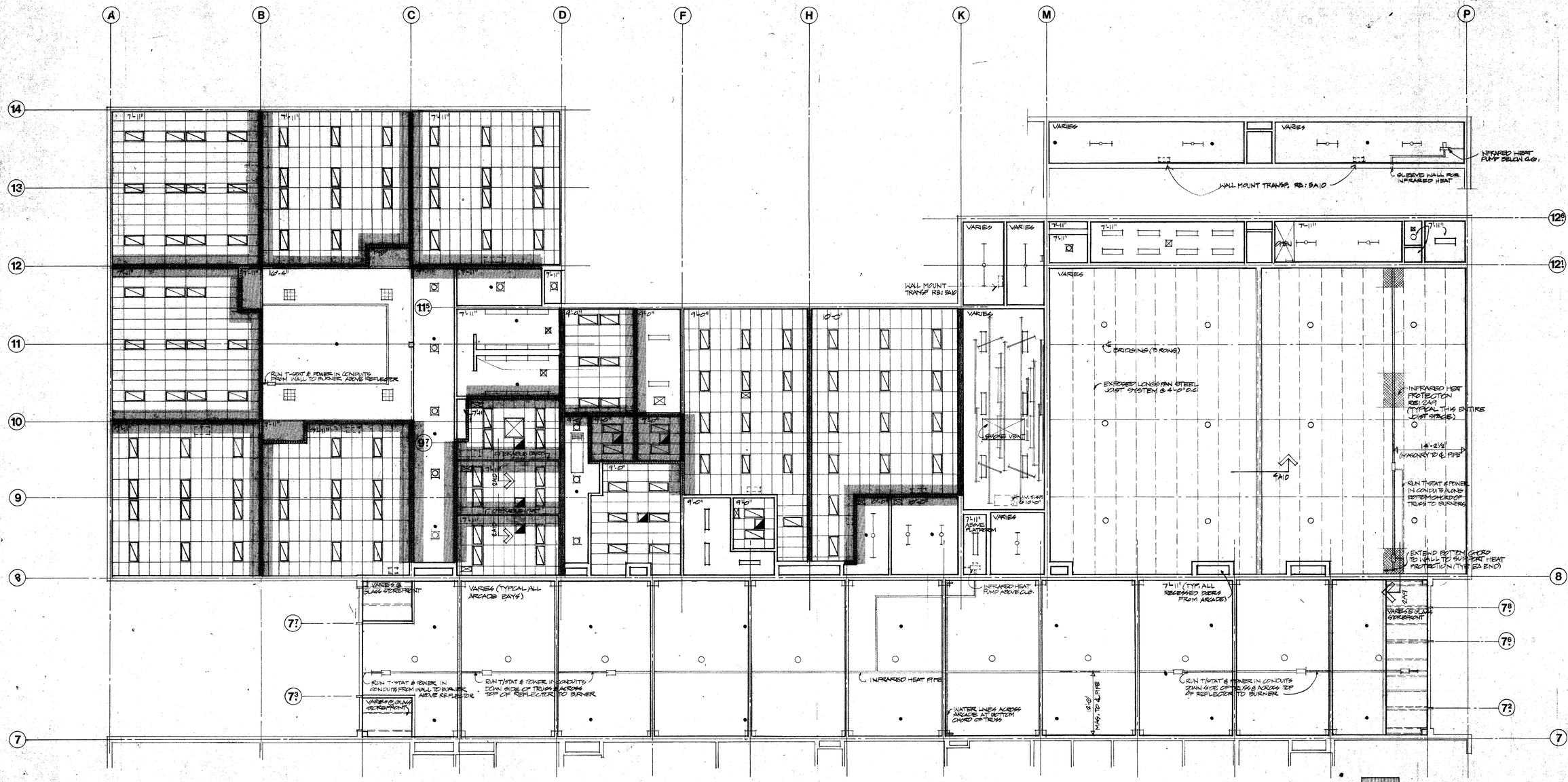
TITLE: ROOF PLAN DETAILS

| | |
|---|---|
| JOB NO. | 7901-036A |
| DRAWN | JMK - GHG |
| CHECKED | RSR |
| DATE | 6 MAY 80 |
| REVISED | |

DRAWING NUMBER

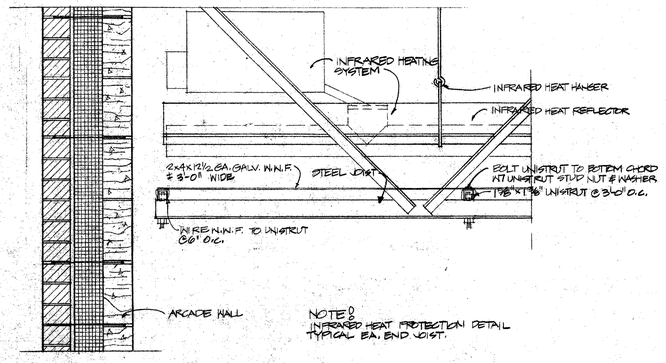
A-8

OF 13 DRAWINGS



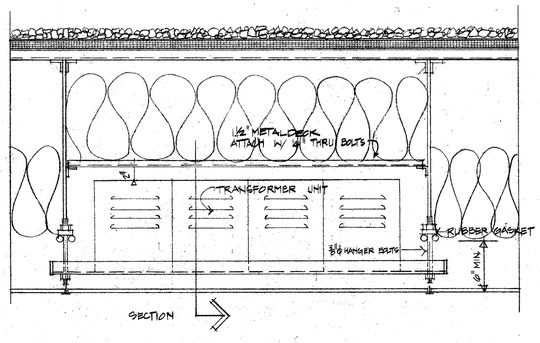

## 1 REFLECTED CEILING- SECTION "A"
1/8" = 1'-0"

NORTH



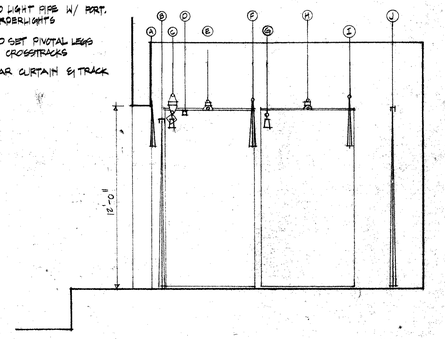

NOTE:
INFRARED HEAT PROTECTION DETAIL TYPICAL EA. END JOIST.

## 2 DETAIL
1½" = 1'-0"




## 3 TRANSFORMER MOUNT DETAIL
1½" = 1'-0"

### PLATFORM EQUIPMENT (BY OWNER)
- (A) VALANCE
- (B) PROCENIUM CURTAIN & TRACK
- (C) 15' LIGHT PIPE W/ PORT. BORDERLIGHTS
- (D) 12'x12' PROJECTION SCREEN
- (E) 9' SET PIVOTAL LEGS ON CROSSTRACKS
- (F) 10' MASKING BORDER
- (G) 2ND LIGHT PIPE W/ PORT. BORDERLIGHTS
- (H) 2'D SET PIVOTAL LEGS ON CROSSTRACKS
- (I) REAR CURTAIN & TRACK




## 4 PLATFORM SECTION
½" = 1'-0"

### LEGEND
- 2x4 TROFFER IN CEILING GRID FLOURESCENT
- 1x4 SURFACE MOUNTED FLOURESCENT
- 6" ϕ DOWNLIGHT
- 4' OR 8' STRIP FLOURESCENT LIGHT
- 2x2 H.I.D. W.I. PARABOLIC LOUVER
- PENDANT MOUNTED METAL HALIDE LIGHT
- SKYLIGHT
- ELECTRIC RADIANT HEAT TRANSFORMER ABOVE CEILING
- 2" FIBERGLASS WALL BATT
- 2" FIBERGLASS CEILING BATT
- EXHAUST FAN OR RETURN GRILLE
- CEILING DIFFUSER
- INFRARED HEAT PIPE & BURNER
- UNIT VENTILATOR
- IONIZED OR THERMAL DETECTOR
- FILL MASONRY WITH GROUT

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO
STEAMBOAT SPRINGS

SSES

STATE OF COLORADO — Robert Sanford Ralston Sanford Ralston 8289 Williams Muchow 8289 — LICENSED ARCHITECTS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE: REFLECTED CEILING SECTION 'A' DETAIL & PLATFORM SECTION LEGEND

| | |
|---|---|
| JOB NO. | 7407-038A |
| DRAWN | JMK |
| CHECKED | RSR |
| DATE | 8 MAY 80 |
| REVISED | |

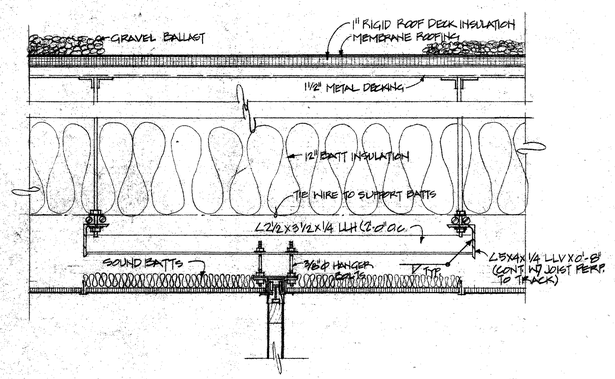
DRAWING NUMBER: A-9

OF 13 DRAWINGS

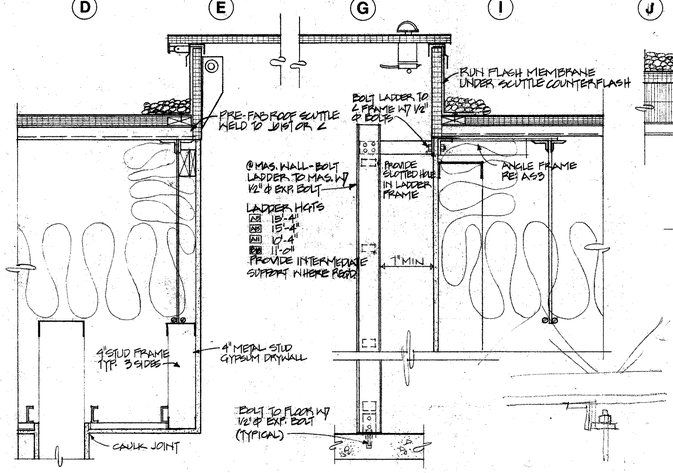
7'-11" AT ALL RECESSED ENTRIES FROM ARCADE (TYPICAL)

## 1 REFLECTED CEILING PLAN - SECTION 'B'
1/8" = 1'-0"

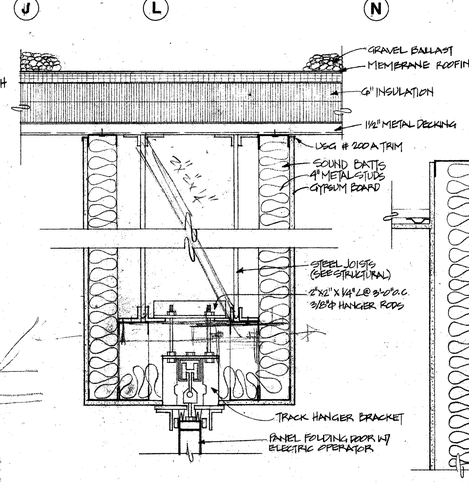
NORTH



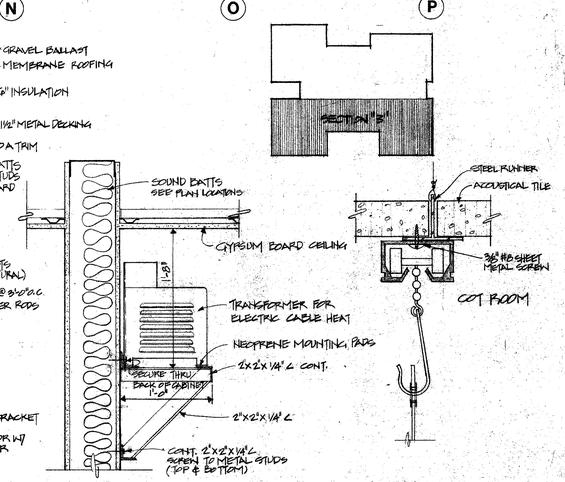

## 2 FOLDING PARTITION
1½" = 1'-0"




## 3 ROOF HATCH & LADDER
1½" = 1'-0"




## 4 PANEL FOLDING DOOR
1½" = 1'-0"




## 5 TRANSFORMER BRACKET
1½" = 1'-0"




## 6 CURTAIN TRACK
FULL SIZE

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

STATE OF COLORADO
Robert Sanford Ralston #3981
William Muchow #3289
LICENSED ARCHITECTS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver.
Garland D. Cox Associates, Inc, Electrical Engineers, Denver

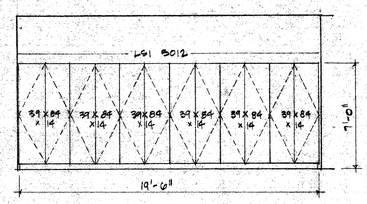
TITLE
REFLECTED CEILING SECTION 'B'

| | |
|---|---|
| JOB NO. | 7917-036A |
| DRAWN | JMK, PS |
| CHECKED | RSR |
| DATE | 8 MAY 1980 |
| REVISED | |

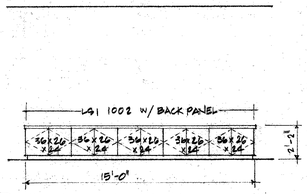
DRAWING NUMBER

A-10

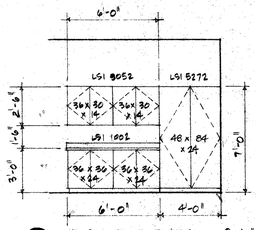
OF 13 DRAWINGS



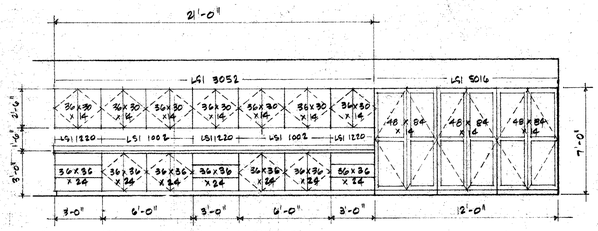

**1** MUSIC RM. W. WALL
4" = 1'-0"



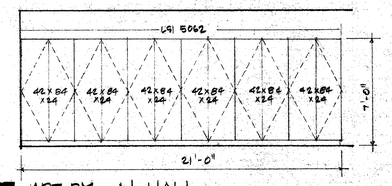

**2** MUSIC RM. W. WALL ISLAND
4" = 1'-0"



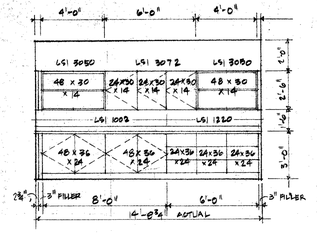

**3** MUSIC RM. ENTRY S. WALL
4" = 1'-0"



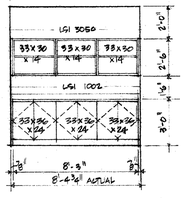

**4** ART RM. S. WALL & ENTRY
4" = 1'-0"



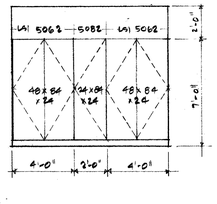

**5** ART RM. N. WALL
4" = 1'-0"



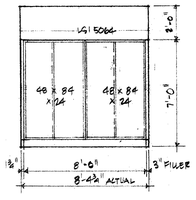

**6** ART STORAGE N. WALL
4" = 1'-0"



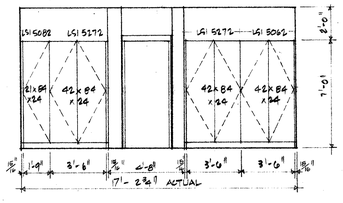

**7** CLAY/KILN RM. W. WALL
4" = 1'-0"



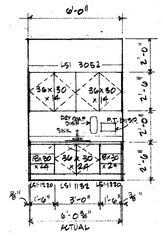

**8** SPEC. ED A25 W. WALL
4" = 1'-0"



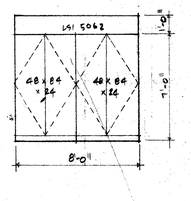

**9** TESTING RM. E. WALL
4" = 1'-0"



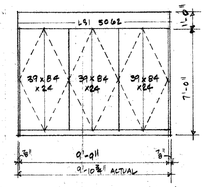

**10** SPEC. ED. OFFICE W. WALL
4" = 1'-0"



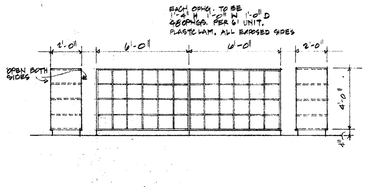

**11** CORRIDOR A29 S.
4" = 1'-0"



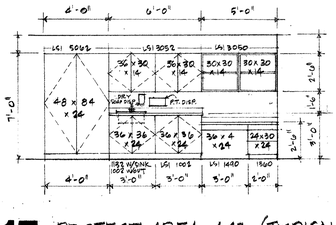

**12** SPEC. ED. A30 N. WALL
4" = 1'-0"



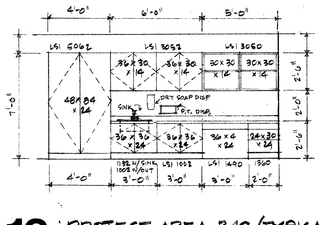

**13** SPEC. ED. A31 N. WALL
4" = 1'-0"



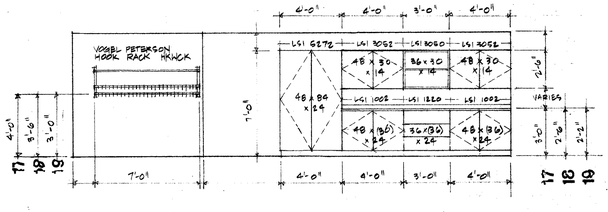

**14** BOOT RACKS (TYPICAL)
4" = 1'-0"



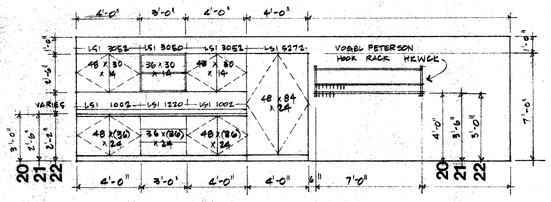

**15** PROJECT AREA A43 (TYPICAL)
4" = 1'-0"



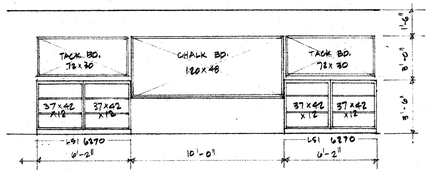

**16** PROJECT AREA B49 (TYPICAL)
4" = 1'-0"



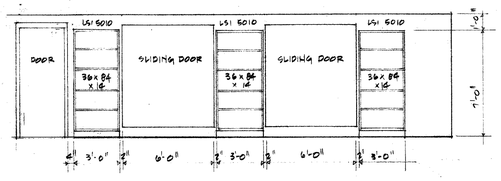

**17 18 19** CLASSROOMS (TYPICAL) SIDEWALLS
4" = 1'-0"



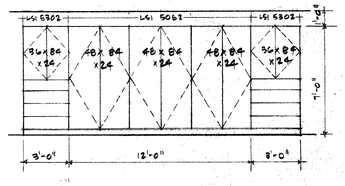

**20 21 22** CLASSROOMS (TYPICAL) SIDEWALLS
4" = 1'-0"



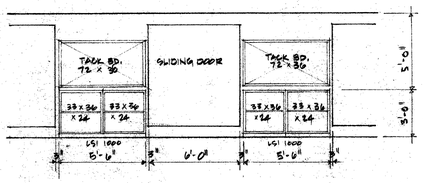

**23** CLASSROOMS (TYPICAL) FRONTWALLS
4" = 1'-0"



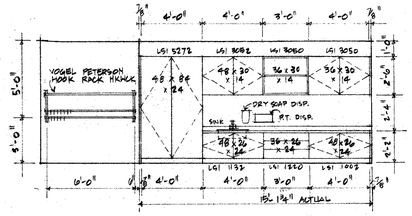

**24** CLASSROOM B8 W. WALL
4" = 1'-0"



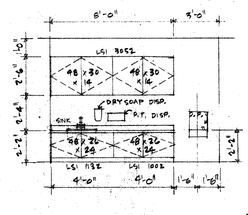

**25** KINDERGARTEN B2 E. WALL
4" = 1'-0"



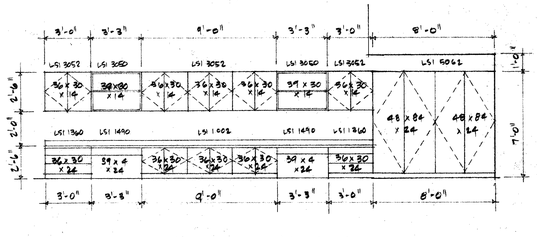

**26** KINDERGARTEN B2 S. WALL
4" = 1'-0"



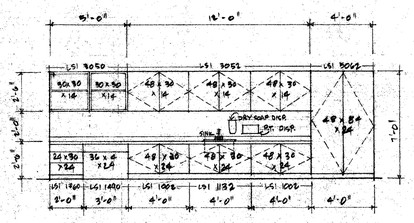

**27** KINDERGARTEN B6 E. WALL
4" = 1'-0"



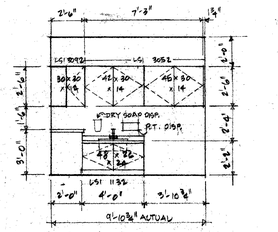

**28** PROJECT AREA B10 E. WALL
4" = 1'-0"



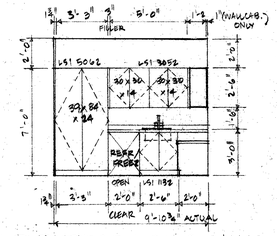

**29** PROJECT AREA B10 N. WALL
4" = 1'-0"



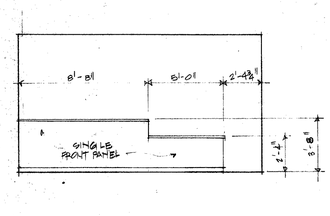

**30** PROJECT AREA B10 W. WALL
4" = 1'-0"



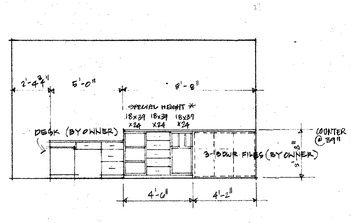

**31** FIRST AID W. WALL
4" = 1'-0"



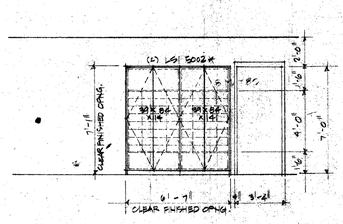

**32** FIRST AID S. WALL
4" = 1'-0"




**33** MAIN OFFICE E. SIDE F. DESK
4" = 1'-0"




**34** MAIN OFFICE W. SIDE F. DESK
4" = 1'-0"




**35** MAIN OFFICE MAILBOXES N. WALL
4" = 1'-0"

* SPECIAL INSTRUCTIONS LSI 5062
ELIMINATE (3) ADJUST. SHELVES & BACK
PROVIDE COMPARTMENTS AS SHOWN
32 MAIL SLOTS AND FILL SHELVES TOP & BOT
PER EACH CABINET.

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES


Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

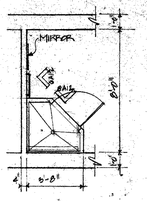
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Calor, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver


STATE OF COLORADO — Robert Sanford Ralston — 8-285 — REGISTERED ARCHITECT — SEAL — LICENSED

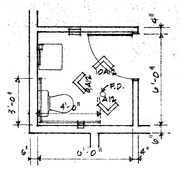
TITLE
INTERIOR ELEVATIONS

JOB NO. 7407-6BA
DRAWN CSW
CHECKED RSR
DATE 3 MAY 80
REVISED

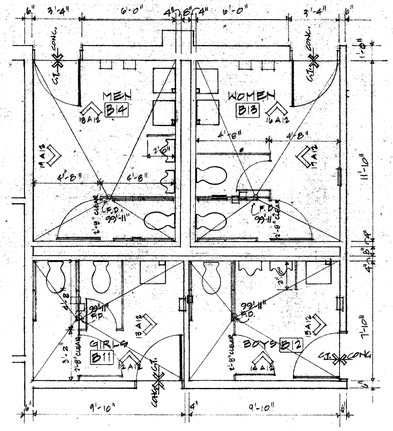
DRAWING NUMBER
A-11
OF 13 DRAWINGS



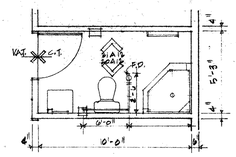

1 PLAN - SHOWER @ GYM OFFICE A3
1/4" = 1'-0"



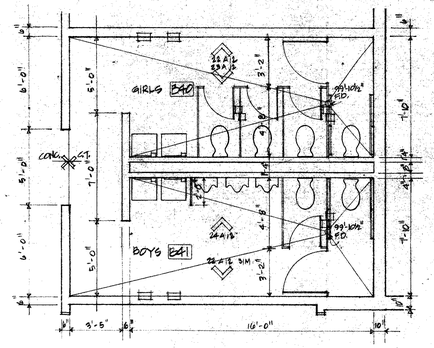

2 PLAN - TOILET RM. B3
1/4" = 1'-0" SIM. B5



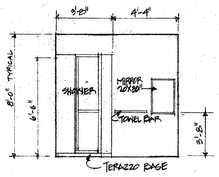

3 PLAN - TOILET RM. B11, B12, B13, B14
1/4" = 1'-0"



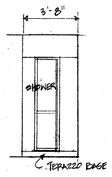

4 PLAN - HEALTH AREA TOILET RM. B17
1/4" = 1'-0"



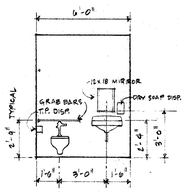

5 PLAN - TOILET RM. B40 B41
1/4" = 1'-0" SIM. A34 A35



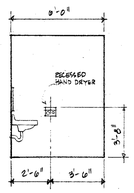

6 N. ELEV. RM. A3
1/4" = 1'-0"



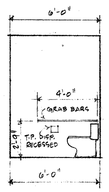

8 W. ELEV. RM. A4
1/4" = 1'-0"



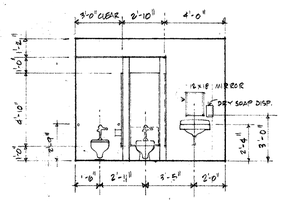

9 N. ELEV. RM. B3
1/4" = 1'-0"



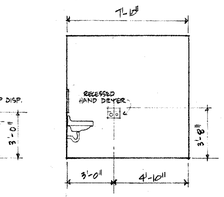

10 E. ELEV. RM. B3
1/4" = 1'-0"



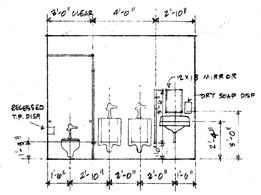

11 W. ELEV. RM. B3
1/4" = 1'-0"



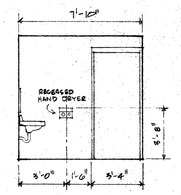

12 E. ELEV. RM. B11
1/4" = 1'-0"



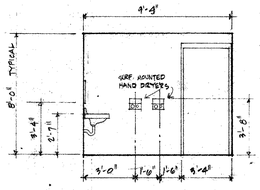

13 S. ELEV. RM. B11
1/4" = 1'-0"



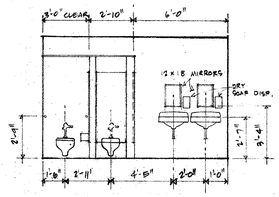

14 E. ELEV. RM. B12
1/4" = 1'-0"



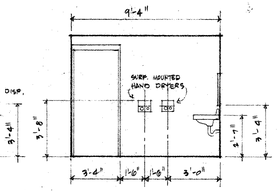

15 S. ELEV. RM. B12
1/4" = 1'-0"



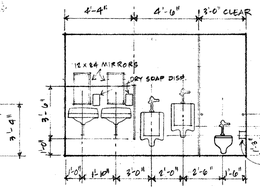

16 E. ELEV. RM. B13
1/4" = 1'-0"



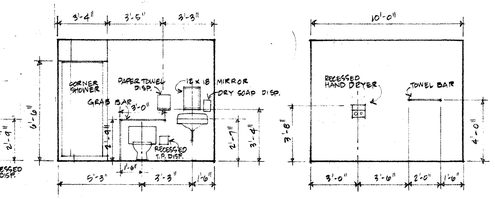

17 N. ELEV. RM. B13
1/4" = 1'-0"




18 E. ELEV. RM. B14
1/4" = 1'-0"



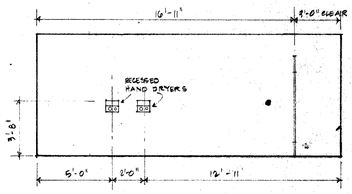

19 W. ELEV. RM. B14
1/4" = 1'-0"



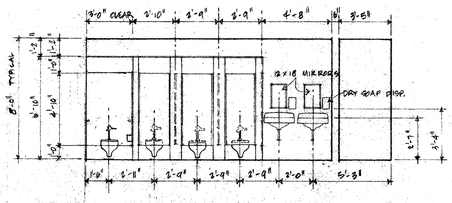

20 W. ELEV. RM. B17
1/4" = 1'-0"



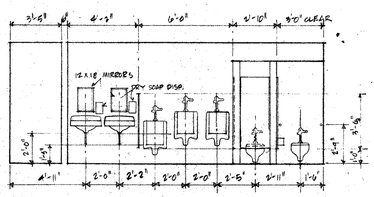

21 E. ELEV. RM. B17
1/4" = 1'-0"



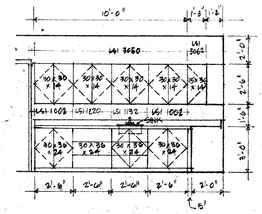

22 E. ELEV. RM. B40
1/4" = 1'-0"



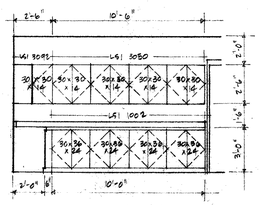

23 W. ELEV. RM. B40
1/4" = 1'-0"



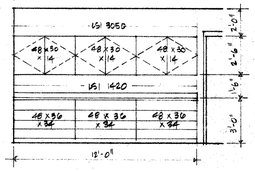

24 E. ELEV. RM. B41
1/4" = 1'-0"



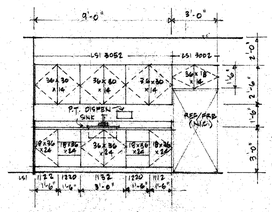

25 WORK RM. W. WALL
1/4" = 1'-0"




26 WORK RM. N. WALL
1/4" = 1'-0"




27 WORK RM. E. WALL
1/4" = 1'-0"




28 TEACHER'S RM. E. WALL
1/4" = 1'-0"

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

STATE OF COLORADO — Steven William Tarlton — 19358 — REGISTERED ARCHITECT

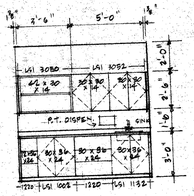
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

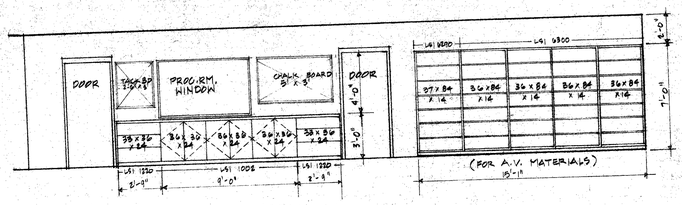
TITLE
INTERIOR ELEVATION

JOB NO. 7907-0 SSA
DRAWN CBJ
CHECKED RSR
DATE 8 MAY 80
REVISED

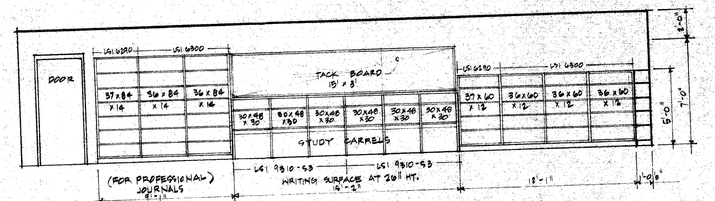
DRAWING NUMBER
A-12
OF 13 DRAWINGS



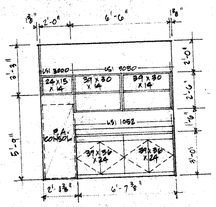

**1** IMC PROCESSING N. WALL
4" = 1'-0"



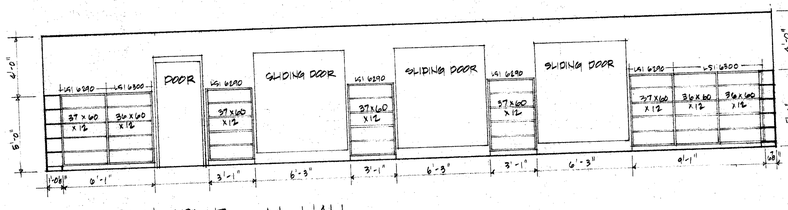

**2** IMC MAIN SPACE E. WALL
4" = 1'-0"



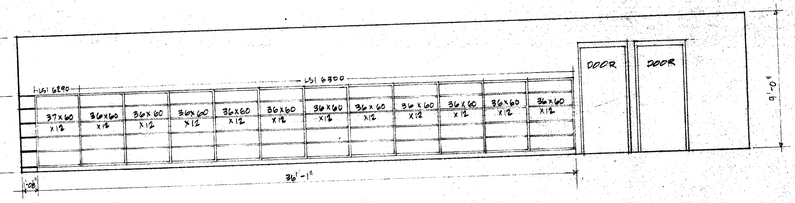

**3** IMC MAIN SPACE S. WALL
4" = 1'-0"



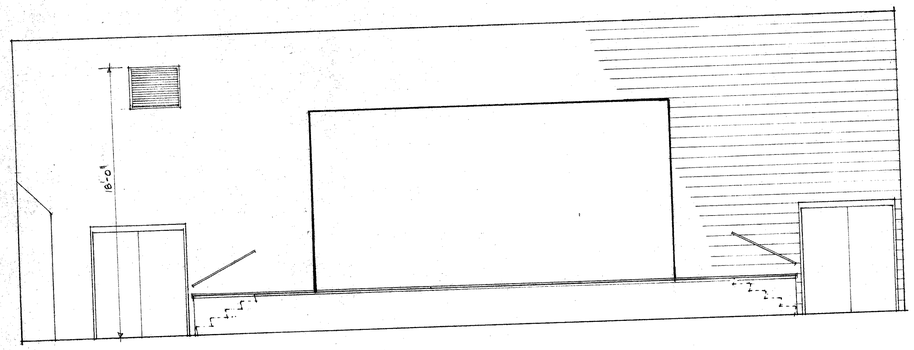

**4** IMC A.V. STOR. N. WALL
4" = 1'-0"



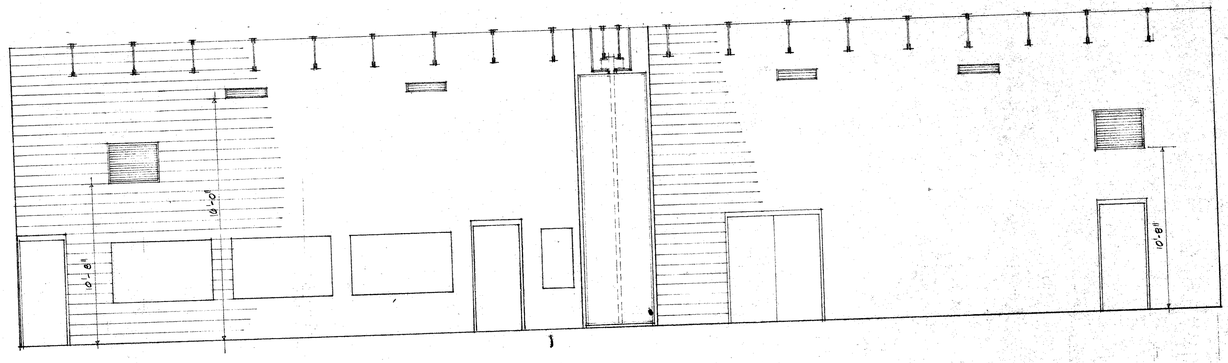

**5** IMC MAIN SPACE W. WALL
4" = 1'-0"




**6** IMC MAIN SPACE N. WALL
4" = 1'-0"




**7** CAFETORIUM N. WALL PROSCENIUM ARCH
4" = 1'-0"




**8** CAFETORIUM / GYM E. WALL
4" = 1'-0"

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-
COLORAD
STEAMBOAT SPRINGS

**SSES**

STATE OF COLORADO
Robert Sanford Ralston
Reg. No. 9357
Registered Architect

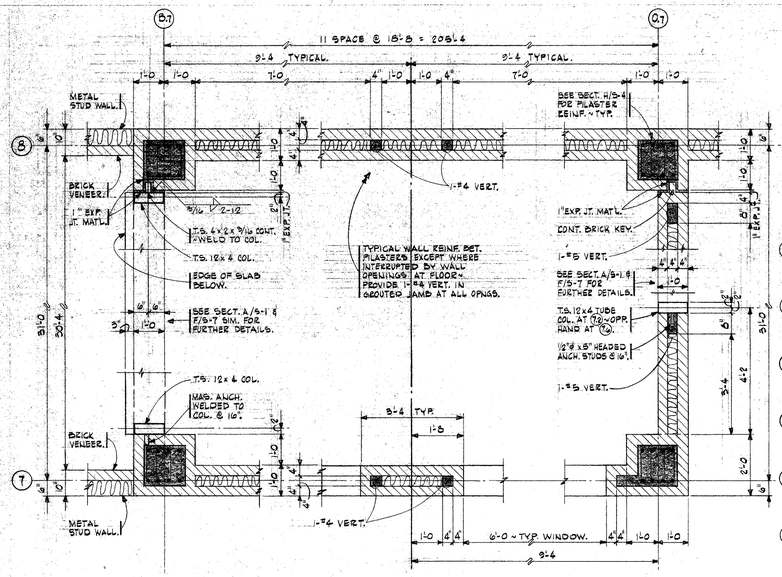
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
INTERIOR ELEVATIONS

JOB No. 7907-USEA
DRAWN CRJ
CHECKED RSR
DATE DRAWN ED
REVISED

DRAWING NUMBER
**A-13**
OF 13 DRAWINGS

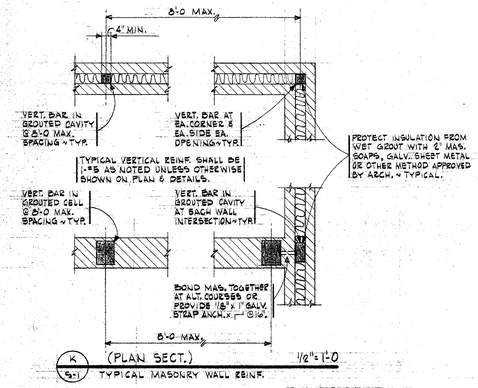



NORTH END PILASTERS
SECTION IS BELOW DOOR HEADER BEAM, SOUTH END SIMILAR.

SOUTH END PILASTERS
SECTION IS ABOVE DOOR HEADER BEAM, NORTH END SIMILAR.

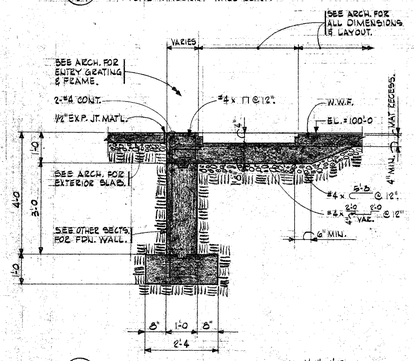
M / S-1 (PLAN SECT.)
ARCADE WALLS.

1/2"=1'-0



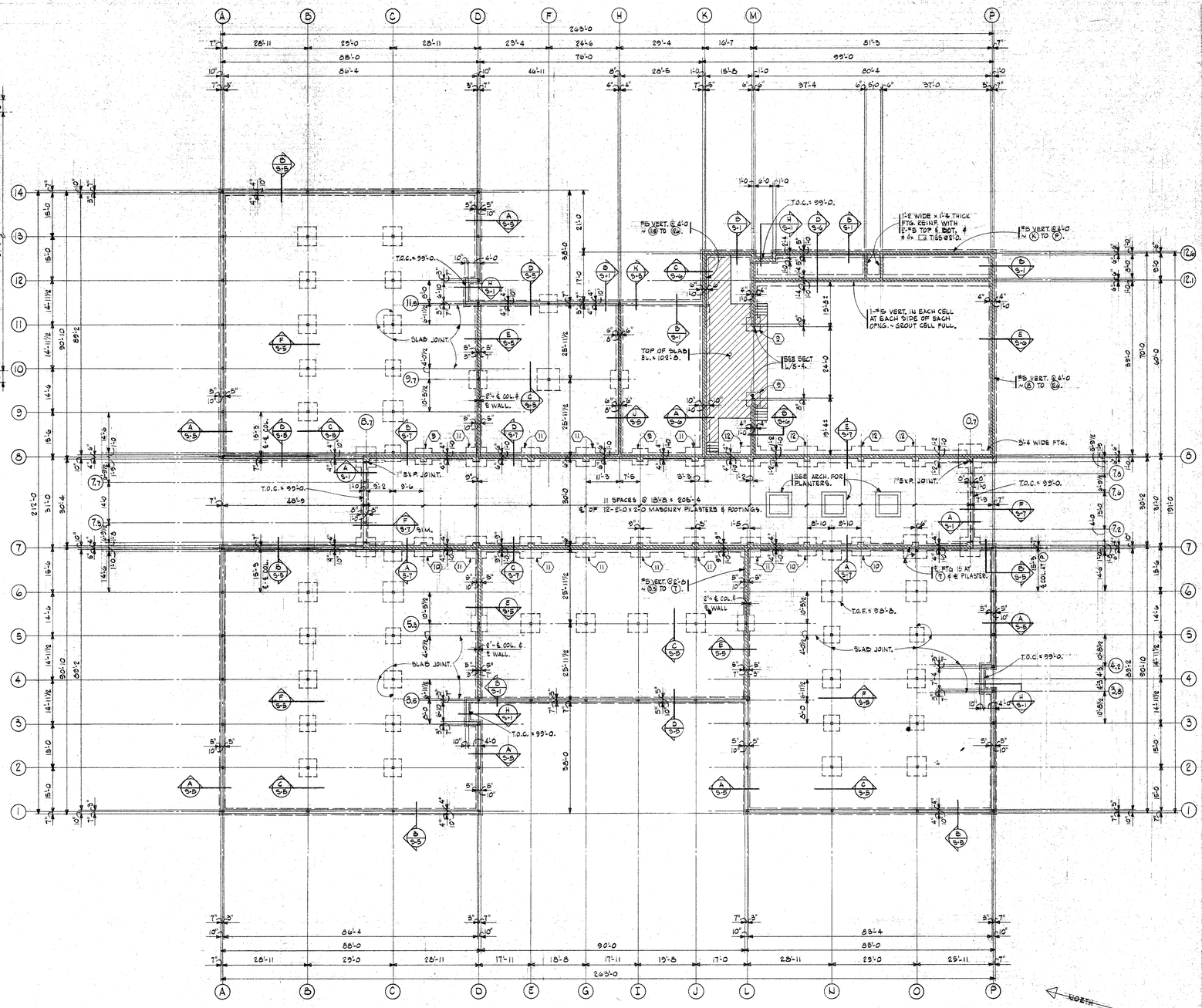

K / S-1 (PLAN SECT.)
TYPICAL MASONRY WALL REINF.

1/2"=1'-0




H / S-1 ENTRY DETAIL.

1/2"=1'-0


A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
1
2
3
4
5
6
7
8
9
10
11
12
13
14
T.O.C. = 99'-0.
T.O.C. = 99'-0.
T.O.C. = 99'-0.
T.O.C. = 99'-0.
T.O.C. = 99'-0.
T.O.F. = 98'-8.
SLAB JOINT.
SLAB JOINT.
SLAB JOINT.
1" EXP. JT. MAT'L.
1" BX.P. JOINT.
1" BX.P. JOINT.
1-#5 VERT. IN EACH CELL AT EACH SIDE OF EACH OPNG. ~ GROUT CELL FULL.
#5 VERT. @ 4'-0 ~ (K) TO (P).
#5 VERT. @ 4'-0 ~ (A) TO (E).
#5 VERT. @ 4'-0 ~ (E) TO (A).
#5 VERT. @ 4'-0 ~ (P) TO (K).
1'-2 WIDE x 1'-4 THICK FTG. REINF. WITH (2)-#5 TOP & BOT. & #4 @ 16" EW. TIES @ 2'-0.
TOP OF SLAB EL. = 102'-8.
SEE SECT. 1, S-4.
5'-4 WIDE FTG.
SEE ARCH. FOR PLANTERS.
11 SPACES @ 18'-8 = 206'-4 & 12 OF 12'-0 x 2'-0 MASONRY PILASTERS & FOOTINGS.
FTG. IS AT 8" PILASTER.
8" & COL. & E WALL.
8" & COL. & E WALL.
4'-0 WIDE FTG.
4'-0 WIDE FTG.
4'-0 WIDE FTG.
4'-0 WIDE FTG.
SEE ARCH. FOR ENTRY GRATING & FRAME.
SEE ARCH. FOR EXTERIOR SLAB.
SEE OTHER SECTS. FOR FDN. WALL.
SEE SECT. 1, S-4.
SEE SECT. 1, S-4.
SEE SECT. 1, S-4

# SSES

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

STATE OF COLORADO — Robert Sanford Ralston — 8-581 — William C. Nielsen — 8-259 — LICENSED ARCHITECTS

STATE OF COLORADO — 8138 — REGISTERED PROFESSIONAL ENGINEER — Gerard D. Cox

**Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs**
**Cator, Rlume & Associates, Co., Mechanical Engineers, Denver**
**Gerard D. Cox Associates, Inc., Electrical Engineers, Denver**

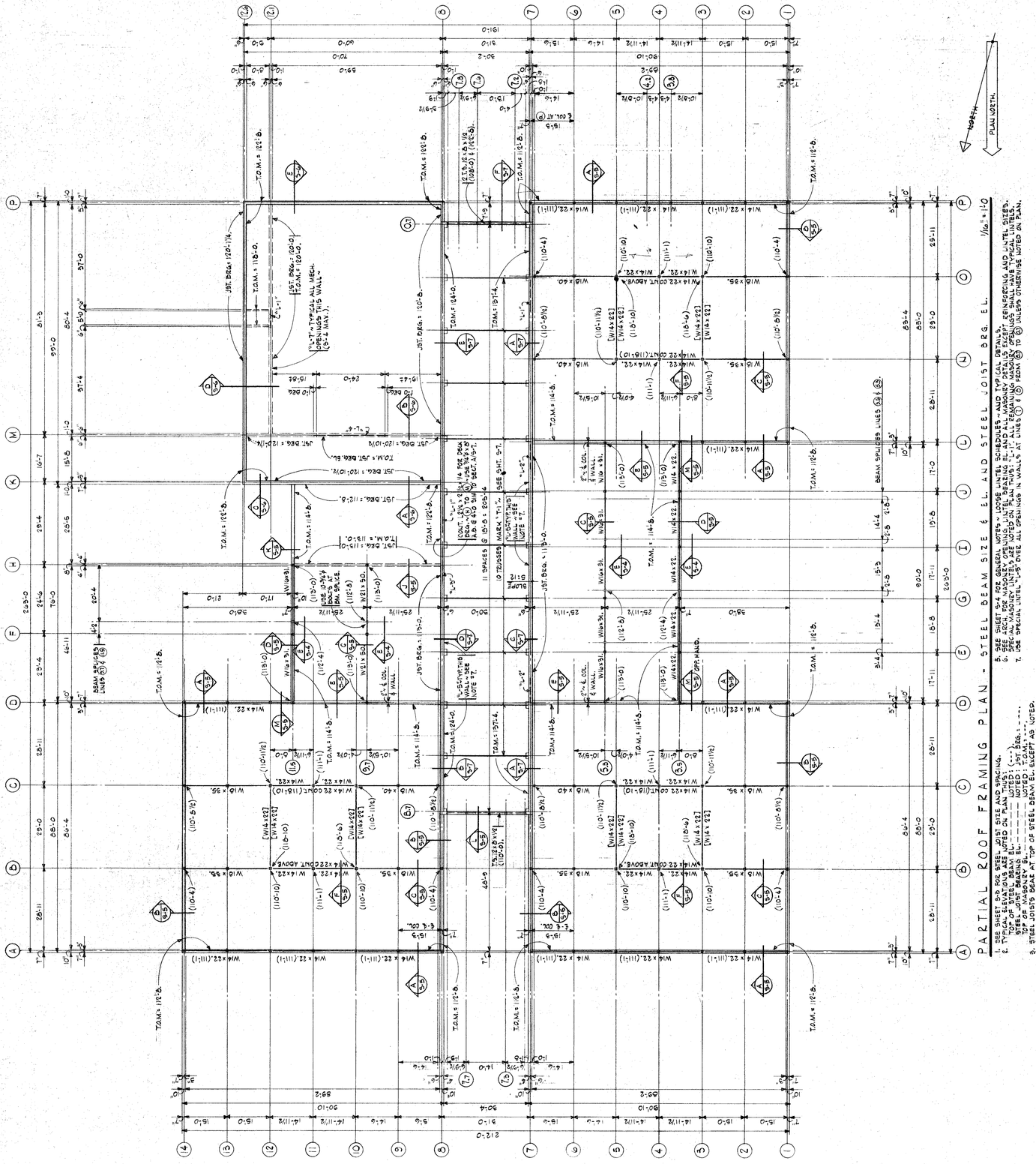
**Robert Sanford Ralston Associates, Architects, Steamboat Springs**
**Muchow & Partners, Architects, Denver**

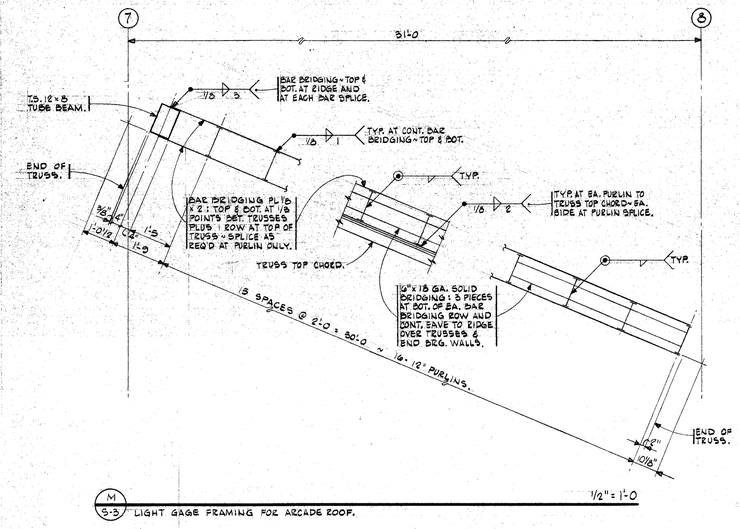
TITLE: PARTIAL ROOF FRAMING PLAN (STEEL BEAMS) & MECH. FLOOR FRAMING PLAN.

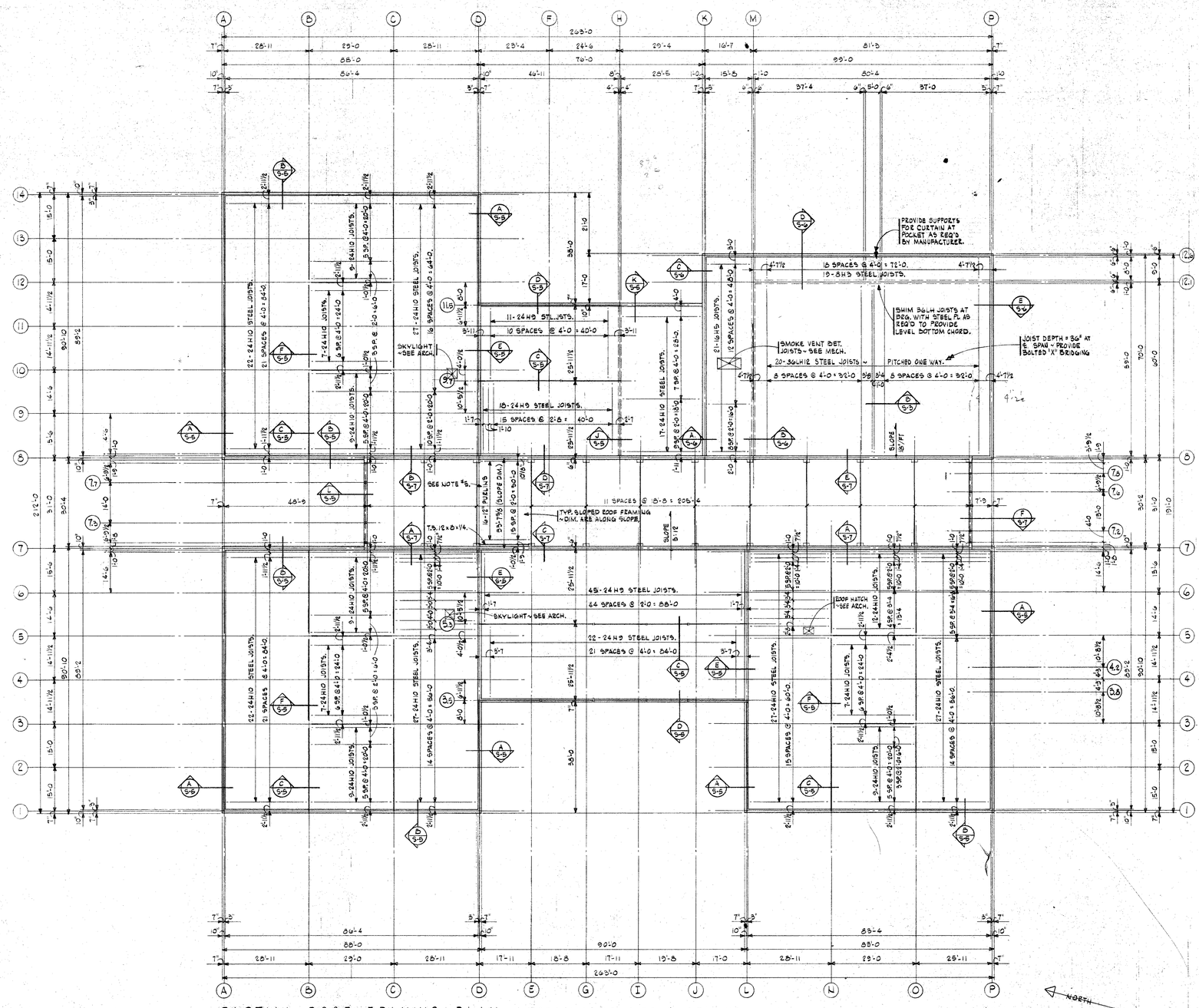
JOB NO. 7021-25A
DRAWN LEK
CHECKED G.
DATE 2 MAY 20
REVISED

DRAWING NUMBER **S-2**

OF 7 DRAWINGS


NORTH
PLAN NORTH.
T.O.M.= 112'-6.
JST. BRG.= 120'-0.
JST. BRG.= 120'-10 1/2
JST. BRG.= 112'-6.
T.O.M.= 113'-0.
T.O.M.= 114'-6.
T.O.M.= 124'-0.
T.O.M.= 119'-4.
T.O.M.= 124'-6.
JST. BRG.= 113'-0.
JST. BRG.= 114'-6.
JST. BRG.= 119'-4.
JST. BRG.= 124'-0.
JST. BRG.= 124'-6.
JST. BRG.= 112'-6.
W14 x 22. (111'-1)
W14 x 22 COUNT (118'-10)
W14 x 22 COUNT ABOVE
W10 x 35.
W10 x 40.
W14 x 22
W14 x 22 COUNT ABOVE
W14 x 22 COUNT (118'-10)

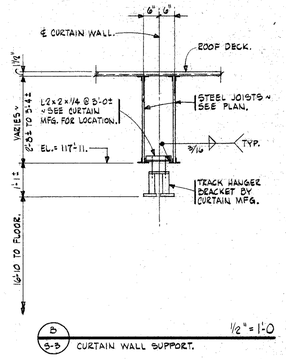


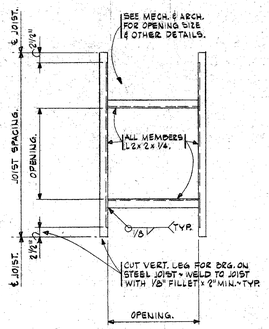

PARTIAL ROOF FRAMING PLAN - STEEL JOIST SIZE & SPACING. 1/16" = 1'-0

PLAN NORTH.

1. SEE SHEET S-2 FOR JOIST BEARING ELEVATIONS AND OTHER ROOF FRAMING ITEMS. SEE SECTIONS A, B, & D/S-5 FOR JOIST BEARING DETAILS. SEE SHEET S-2 FOR FLOOR JOISTS.
2. ALL STEEL JOISTS ARE "H" OR "LH" SERIES SJI JOISTS. PROVIDE BRIDGING IN ACCORDANCE WITH SJI RECOMMENDATIONS AND ANCHOR TO WALLS AT EACH END OF BRIDGING ROWS.
3. ALL ROOF DECK SHALL BE WHEELING 11/2" TYPE 'A' 22 GA. OR AN APPROVED EQUAL, EXCEPT AS NOTED. ATTACH ROOF DECK TO SUPPORTS BY WELDING. WELD SIZE AND SPACING TO BE AS PER MANUFACTURER'S RECOMMENDATIONS TO TRANSFER 600 PLF DIAPHRAGM SHEAR.
4. SEE MECHANICAL DRAWINGS FOR ROOF AND WALL OPENINGS. ROOF OPENINGS SHALL BE PLACED BETWEEN JOISTS. SEE SECT. A/S-3 FOR ANGLE FRAME AT OPENINGS.
5. ROOF FRAMING BETWEEN LINES 1 & A SHALL BE INVERTED, WIDE RIB, METAL DECK ON LIGHT GAGE METAL "PURLINS". PURLINS SHALL BE WHEELING 13.JP12" OR PENN METAL 7L20.16" OR AN APPROVED EQUAL. ATTACHMENT BRIDGING AND SAG RODS SHALL BE AS PER SECTION M/S-3. ROOF DECK SHALL BE WHEELING 11/2" TYPE "B" 22 GA. OR AN APPROVED EQUAL. ROOF DECK SHALL BE PLACED INVERTED TO NORMAL PLACEMENT (LARGE RIBS DOWN) AND SHALL BE ABLE TO SUPPORT ROOF SNOW LOAD IN THIS POSITION. ROOF DECK SHALL BE ATTACHED TO SUPPORTS BY WELDING EACH RIB TO EACH SUPPORT.




D/S-5 1/2" = 1'-0 CURTAIN WALL SUPPORT.




A/S-3 NO SCALE ANGLE FRAME DETAIL.

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

SSES

STATE OF COLORADO — Robert Sanford Ralston — Reg. No. 8138 — William C. Muchow — Reg. No. 8138 — LICENSED ARCHITECTS

JAMES E. KRAMER — REGISTERED PROFESSIONAL ENGINEER — No. 8138 — STATE OF COLORADO

**Robert Sanford Ralston Associates, Architects, Steamboat Springs**
**Muchow & Partners, Architects, Denver**

**Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs**
**Cator, Ruma & Associates, Co., Mechanical Engineers, Denver**
**Garland D. Cox Associates, Inc., Electrical Engineers, Denver**

TITLE
PARTIAL ROOF FRAMING PLAN (STEEL JOISTS).

| | |
|---|---|
| JOB NO. | 7907-636A |
| DRAWN | LEK |
| CHECKED | G. |
| DATE | 5 MAY 80 |
| REVISED | |

DRAWING NUMBER

**S-3**

OF ⅓ DRAWINGS

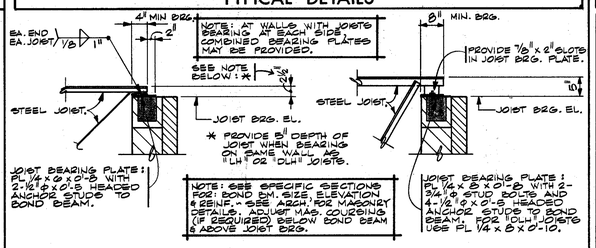
## GENERAL NOTES

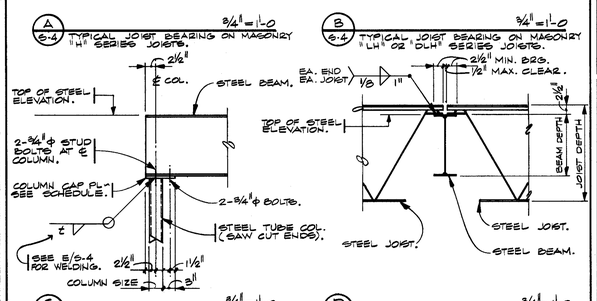
1. LIVE LOADS USED IN DESIGN:
   - A. ROOF . . . . . 100 PSF.
   - B. WIND
     1. LESS THAN 30' HEIGHT . . . . . 20 PSF.
     2. 30' HEIGHT AND ABOVE . . . . . 25 PSF.
   - C. MECHANICAL FLOOR . . . . . 125 PSF.
2. FOUNDATIONS:
   - A. SOIL DATA WAS TAKEN FROM RECOMMENDATIONS SET FORTH IN THE REPORT ON JOB #19,306 BY CHEN AND ASSOC. INC. DATED OCTOBER 31, 1979.
   - B. SOIL BEARING PRESSURE ON NATURAL SOILS USED IN DESIGN: 2000 PSF.
3. CONCRETE:
   - A. ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS AND SHALL BE PLACED WITH 4" MAXIMUM SLUMP.
   - B. MINIMUM CEMENT FACTOR FOR CONCRETE SHALL BE 5 SACKS PER CUBIC YARD OF CONCRETE. ALL EXPOSED CONCRETE SHALL HAVE AIR ENTRAINMENT ADDITIVE TO PROVIDE 5% ± ENTRAPPED AIR.
   - C. SLABS AND FOUNDATION WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY STOP IN CONCRETE WORK MUST BE MADE USING DOWELS, KEYS, AND VERTICAL BULKHEADS, UNLESS OTHERWISE SHOWN. ALL CONSTRUCTION JOINTS SHALL BE AS DETAILED OR AS APPROVED BY THE ENGINEER.
   - D. CONCRETE SHALL NOT BE PLACED ON FROZEN, MUDDY OR SATURATED SOIL AND SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS.
4. REINFORCING STEEL:
   - A. ALL REINFORCING BARS SHALL BE ASTM A615-GRADE 60, EXCEPT COLUMN TIES AND BEAM STIRRUPS WHICH SHALL BE A615-GRADE 40. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
   - B. CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS OTHERWISE NOTED):
     1. CONCRETE POURED AGAINST EARTH . . . . . 3".
     2. CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
        - A. #5 BARS OR SMALLER . . . . . 1½".
        - B. BARS LARGER THAN #5 . . . . . 2".
     3. SLABS . . . . . ¾".
   - C. NO WELDING TO REINFORCING STEEL SHALL BE PERMITTED. SPLICES OF REINFORCEMENT SHALL BE MADE AS DETAILED OR AUTHORIZED BY THE STRUCTURAL ENGINEER. LAP SPLICES SHALL BE A MINIMUM OF 36 BAR DIAMETERS. WIRE FABRIC REINFORCEMENT MUST LAP ONE FULL MESH AT SIDE AND END LAPS, BUT NOT LESS THAN 6", AND SHALL BE WIRED TOGETHER. MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING.
   - D. DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI DETAILING MANUAL AND ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
   - E. PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS.
   - F. PLACE 1-#4 BAR WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WITH 1-#4 EACH FACE IN CONCRETE 4" OR MORE IN THICKNESS.
5. STEEL:
   - A. ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, EXCEPT TUBE SHAPES SHALL CONFORM TO ASTM A500 (GRADE B) AND LIGHT GAGE STEEL PURLINS SHALL BE FABRICATED FROM ASTM A570 (GRADE D).
   - B. STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF AISC MANUAL OF STEEL CONSTRUCTION.
   - C. ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD TESTS. ALL WELDS SHALL BE MADE USING E70 ELECTRODES.
   - D. USE STANDARD FRAMED BEAM CONNECTIONS WITH 3/4" Ø BOLTS (OR WELDED EQUIVALENT) UNLESS OTHERWISE NOTED. SELECT CONNECTIONS TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY FOR EACH GIVEN BEAM AND SPAN. THE EFFECT OF CONCENTRATED LOADS SHALL ALSO BE CONSIDERED.
   - E. STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.
   - F. STEEL DECK
     1. ALL STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH DECK MANUFACTURER'S SUGGESTED SPECIFICATION.
     2. STEEL DECK BY OTHER MANUFACTURERS MAY BE SUPPLIED IN LIEU OF THAT SHOWN PROVIDED SECTION PROPERTIES ARE SIMILAR TO THOSE OF DECK SPECIFIED, AND IF APPROVED BY THE ARCHITECT.
     3. DECK SUPPLIER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR OPENINGS THROUGH DECK.
   - G. SEE ARCHITECTURAL DRAWINGS FOR NAILER HOLES, ETC.
6. MASONRY:
   - A. ALL MASONRY BLOCK UNITS SHALL CONFORM TO ASTM C90-GRADE A.
   - B. ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE S. GROUT FOR BOND BEAMS, PILASTERS, AND VERTICAL WALL REINFORCING SHALL BE 3/8" AGGREGATE CONCRETE WHICH WILL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
   - C. HORIZONTAL REINFORCING IN ALL MASONRY WALLS SHALL BE STANDARD "DUR-O-WAL", OR AN APPROVED EQUAL, SPACED AT 16" O.C. UNLESS OTHERWISE NOTED. SPACE HORIZONTAL REINFORCING IN CAVITY WALLS AT 16" O.C.
   - D. BOND BEAM AND VERTICAL WALL REINFORCING SHALL BE ASTM A615-GRADE 60. VERTICAL BARS SHALL HAVE LAP SPLICES OF 36 BAR DIAMETERS AT APPROX. 1/3 POINTS OF THE WALL HEIGHT AND SHALL BE GROUTED IN PLACE USING 4'-0" LIFTS.
   - E. FILL ALL VOIDS AND BLOCK CELLS SOLIDLY WITH MORTAR FOR A DISTANCE OF 24" BENEATH AND 12" EACH SIDE OF ALL BEAM REACTIONS OR CONCENTRATED LOADS.
7. ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL.
8. ARCHITECT'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
9. VERIFY ALL OPENINGS THROUGH FLOOR AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
10. EXPLANATION OF SECTION DESIGNATION USED:
    FOR NOTE REFERENCE "SECT. B/S-6"

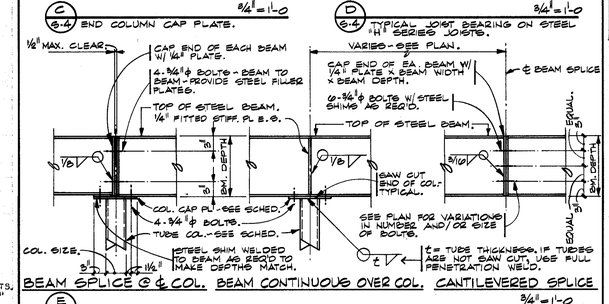
    Section mark. → B / S-6

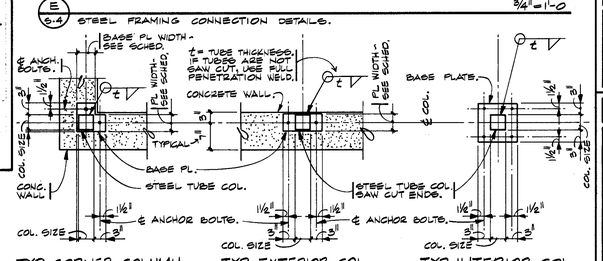
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## TYPICAL DETAILS

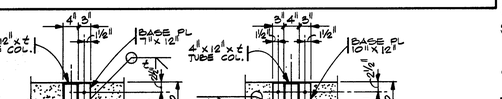


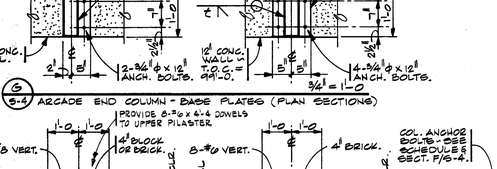



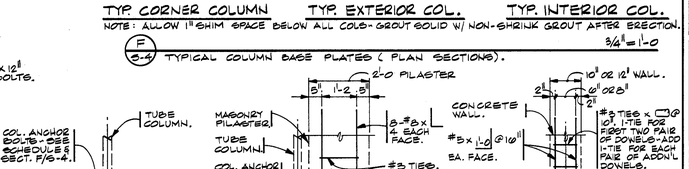



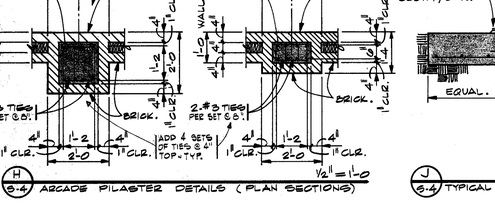

NOTE: ALLOW 1" SHIM SPACE BELOW ALL COLD-SET GROUT SOLID W/ NON-SHRINK GROUT AFTER ERECTION.




F S-4 TYPICAL COLUMN BASE PLATES ( PLAN SECTIONS).
3/4" = 1'-0




## SLAB ON GRADE DETAILS

NOTES:
1. POUR SLAB IN AS LARGE AN AREA AS PRACTICAL FOR FINISHING WITH A CONSTRUCTION JOINT BETWEEN ADJACENT POURS.
2. FORM OPENINGS FOR COL. ISOLATION SLABS AT EACH COL. WHICH PENETRATES THE SLAB. POUR ISOLATION SLAB AFTER MAIN SLAB HAS BEEN POURED, JOINTED AND CURED. JOINTS EXTEND ALL 4 WAYS ON GRID LINES TO ADJACENT COL. OR EDGE OF SLAB.
3. PROVIDE CONTROL JOINTS WITHIN EACH POUR TO SEPERATE FLOOR INTO RECTANGULAR PIECES (AREA NOT OVER 600 SQ FEET). TOOLED JTS. SHALL BE MADE DURING FINAL FINISHING. - SEE ARCH. FOR TOOLED JOINT LOCATIONS IN ARCADE SLAB.
4. SEE ARCH. & ELECTRICAL FOR HEAT CABLES TO BE PLACED IN SLABS.

## SCHEDULE OF COLUMN SIZES AND FOOTING MARKS

| GRID LOCATIONS | A-1/B/B/7/8/10 A-12/14 B-1/7/8/14 C-1/14 D-1/B/12/14 L-1/B, L-1/B-1, M-1, O-1 P-1/B/B.B/4.2 P-5/7 | A-2/4/6/9/11/18 D-2/B.5/11.5/18 L-2/B.5 P-2/6 H-11.5 | B.5-E/G/I/J | B.7-7.B/7.7 O.7-7.2/7.6/7.8 | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| COLUMN CAP PL | PL½x5x0'-9 INT. PL½x5x0'-7 END | PL½x5x0'-9½ INT. PL½x5x0'-7½ END | PL½x6x0'-10 | NONE - SEE SECTS. FOR CONN. TO TUBE BM. | | | | | | |
| COLUMN SIZE | T.S. 3x3x5/16 | T.S. 3½x3½x5/16 | T.S. 4x4x5/16 | T.S. 12x4x5/16 | | | | | | |
| COLUMN BASE PL | PL¾x4x0'-9 | PL⅞x5x0'-9½ | PL⅞x5x0'-10 | PL¾x10x1'-0 | | | | | | |
| ANCHOR BOLTS | 2-¾" Ø x 12" | 2-¾" Ø x 12" | 2-¾" Ø x 12" | 4-¾" Ø x 12" | | | | | | |
| FOOTING MARK | CONT. CONC. WALL | CONT. CONC. WALL | CONT. CONC. WALL | CONT. CONC. WALL | | | | | | |
| SECTIONS & REMARKS | A & B/S-5 C, E, & F/S-4 | A & D/S-5 C, E, & F/S-4 | D/S-5 E & F/S-4 | G/S-4, L/S-5 F/S-7 - SEE SECT. F/S-7 FOR UPPER COLS AT 0.7-7.2/7.6 | | | | | | |
| GRID LOCATIONS | B-3/B/10/12 C-3/5/10/12 N-3/5 O-3/5 | 4-B/C/N/O 11-B/C | B-2/6/9/18 C-2/18 N-2 O-2 | B.3-E/G/I/J | 6-C/N/O | C-9 | F-9.7 | F-11.5 | | |
| COLUMN CAP PL | PL½x5½x0'-8½ | PL½x5½x0'-11 | PL½x6x0'-11 | PL½x5½x0'-11 | PL½x6x0'-11 | PL½x6x0'-11 | PL½x6½x0'-11 | PL½x5½x0'-11 | | |
| COLUMN SIZE | T.S. 5x5x5/16 | T.S. 5x5x5/16 | T.S. 5x5x5/16 | T.S. 5x5x¼ | T.S. 5x5x¼ | T.S. 5x5x¼ | T.S. 5x5x5/16 | T.S. 5x5x5/16 | | |
| COLUMN BASE PL | PL¾x11x0'-11 | PL¾x11x0'-11 | PL¾x11x0'-11 | PL⅞x11x0'-11 | PL 1x12x1'-0 | PL 1x12x1'-0 | PL 1x12x1'-0 | PL 1x5½x1'-0 | | |
| ANCHOR BOLTS | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 2-¾" Ø x 12" | | |
| FOOTING MARK | ⑤ | ④ | ⑤ | ⑤ | ⑫ | ⑦ | ⑦ | ⑭ & CONC. WALL | | |
| SECTIONS & REMARKS | F/S-5 C, F & J/S-4 | F/S-5 E, F & J/S-4 | C/S-5 E, F & J/S-4 | C/S-5 E, F & J/S-4 | C/S-5 E, F & J/S-4 | C/S-5 E, F & J/S-4 | C/S-5 E, F & J/S-4 | D/S-5 E & F/S-4 | | |
| GRID LOCATIONS | D-5.5 L-5.5 | D-9.7 H-9.7 | C-5 | C-7 N-7 | O-7 | B.7-7/8 O.7-7 | O.7-8 | | | |
| COLUMN CAP PL | PL½x5½x0'-7 | PL½x6½x0'-7½ | PL½x6x0'-10 | PL½x6x0'-10 | NONE - SEE SECTS. FOR CONN. TO TUBE BMS. | NONE - SEE SECTS. FOR CONN. TO TUBE BMS. | | | | |
| COLUMN SIZE | T.S. 3½x5½x5/16 & MASONRY WALL | T.S. 4x4x5/16 & MASONRY WALL | T.S. 4x4x5/16 & MASONRY WALL | T.S. 4x4x5/16 & MASONRY WALL | T.S. 4x4x5/16 & 24" SQ. MAS. PILASTER | T.S. 12x4x5/16 & 24" SQ. MAS. PILASTER | T.S. 12x4x5/16 & 24" SQ. MAS. PILASTER | | | |
| COLUMN BASE PL | PL¾x9½x0'-9½ | PL¾x10x0'-10 | PL¾x10x0'-10 | PL¾x10x0'-10 | PL¾x10x0'-10 | PL¾x7x1'-0 | PL¾x7x1'-0 | | | |
| ANCHOR BOLTS | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 4-¾" Ø x 12" | 2-¾" Ø x 12" | 2-¾" Ø x 12" | | | |
| FOOTING MARK | ⑨ | ⑨ | ⑨ | ⑩ | ⑭ | ⑱ CONC. WALLS & 24" SQ. CONC. PIER | ⑳ CONC. WALLS & 24" SQ. CONC. PIER | | | |
| SECTIONS & REMARKS | E/S-5 C, F, & J/S-4 | E/S-5 AT D-9.7 J/S-7 AT H-9.7 C, F & J/S-4 | K/S-4 & B/S-7, C, E, F/S-4 | A/S-7 E, F, & K/S-4 | A/S-7 E, F & K/S-4 | A/S-1, F/S-7, G/S-4 & K/S-4 (SIM.) | A/S-1, F/S-7 G/S-4 & K/S-4 (SIM.) | | | |

NOTES:
1. SEE PLANS FOR GRID MARKS. COLUMNS WITHIN 2'-0 OF AN EXISTING GRID ARE NOT GIVEN SPECIAL GRID MARKS. SEE PLANS & SECTIONS FOR SUCH OFFSETS.
2. COLUMN CAP AND BASE PLATES ARE LISTED THUS: THICKNESS (IN.) x WIDTH (IN.) x LENGTH (FT.-IN.) PLATE WIDTH IS MINIMUM, WHICH BEAM FLANGE WIDTH, IF LARGER. CORNER COL. BASE PLATES ARE NOT CALLED FOR IN THIS SCHEDULE, BUT INCLUDED BY (CONT.) REFERENCE TO SECTION F/S-4.
3. ALL COLUMNS EMBEDDED IN MASONRY WALLS AND PARTIONS SHALL BE LINTED. ALSO PROVIDE 20 GAGE x 3¼" x 8" CORRUGATED MASONRY ANCHORS SHOP WELDED TO 2 COLUMN FACES @ 16" O.C. (MATCH COURSING) FOR EMBEDMENT IN MASONRY. (DOES NOT APPLY AT STUD AND MASONRY VENEER WALLS).
4. SEE PLANS & SECTIONS FOR EL. OF BEAMS & FTG'S. & BEAM SIZES. ALL COLUMNS SHALL ALLOW FOR 1" MIN. COMPACTED BACKFILL - SEE SPECIFICATIONS AND SOILS REPORT.
5. ANCHOR BOLT LENGTHS DO NOT INCLUDE 3" STANDARD EMBEDMENT HOOK & ASSUME 4" MAX. BOLT PROJECTION ABOVE TOP OF CONCRETE. ADJUST BOLT LENGTHS ACCORDINGLY IF ADDN'L BOLT PROJECTION IS REQUIRED.
6. SEE GENERAL NOTES & SPECS FOR FURTHER REQUIREMENTS.

## LOOSE LINTEL SCHEDULES

### TYP. MASONRY LINTELS

| OPENINGS | LINTEL SIZE | BEARING | REMARKS |
|---|---|---|---|
| 5'-0 OR LESS | L 3x3½x¼ | 6" EACH END | |
| OVER 5'-0 THRU 6'-3 | L 3½x3½x¼ | 6" EACH END | |
| OVER 6'-3 THRU 7'-0 | L 4x3½x¼ | 8" EACH END | |
| OVER 7'-0 THRU 8'-0 | L 5x3½x¼ | 6" EACH END | WALL THICKNESS = 8" (OR LESS) |
| OVER 7'-0 THRU 10'-0 | W8x10 W/ ½" PL BOT. | 8" EACH END | WALL THICKNESS = 8" (OR LESS) - NOTE #4 |
| OVER 8'-0 THRU 11'-0 | W8x10 W/ ½" PL BOT. | 8" EACH END | WALL THICK. = 8" THRU 12" - NOTE #4 |

NOTES:
1. MASONRY LINTELS IN THIS SCHEDULE APPLY AT ALL OPENINGS NOT COVERED BY THE SPECIAL MASONRY LINTEL SCHEDULE BELOW, OR OTHER DETAILS AND SECTIONS.
2. PROVIDE ONE STEEL ANGLE FOR EACH 4" OF LESS OF WALL THICKNESS AT MASONRY WALLS - PROVIDE ONE ANGLE AT EACH SIDE OF STEEL WALLS.
3. ALL ANGLE LINTELS SHALL HAVE THE 3½" LEG HORIZONTAL.
4. STEEL PLATE OF W8 BOT. LINTELS SHALL BE CONTINUOUS FOR FULL BEAM LENGTH (INCLUDING BEARING LENGTH). PLATE WIDTH SHALL NOT BE LESS THAN NOMINAL WALL THICKNESS. PLATE SHALL BE WELDED TO BEAM WITH 3/16" FILLET "STITCH" WELDS - 3" LONG - 12" ON CENTER EACH SIDE OF BEAM, STAGGERED, AND 3" EACH END. PLATE SHALL BE CENTERED ON BEAM.
5. FOR OPENINGS OF 6'-0 OR LESS, MASONRY BELOW LINTEL BEARING SHALL BE SOLID OR GROUTED FOR A LENGTH OF 8" AND HEIGHT OF 16" FOR FULL WALL THICKNESS.
6. FOR OPENINGS OVER 10'-0, PROVIDE SOLID OR GROUTED MASONRY JAMB FOR BEARING LENGTH BY FULL WALL THICKNESS BY FULL OPENING HEIGHT, WITH 1-5/8" Ø x 10" ANCH. BOLT @ EA. END.
7. CONTACT STRUCTURAL ENGINEER FOR LINTELS AT MASONRY OPENINGS NOT COVERED BY THIS SCHEDULE, SPECIAL LINTEL SCHEDULE BELOW, OR OTHER DETAILS.

## SPECIAL MASONRY LINTELS

| MARK | LINTEL SIZE | BEARING | ANCH. BOLT | REMARKS |
|---|---|---|---|---|
| L-1 | W 6x10 WITH ¼" BOT. PLATE | 8" EA. END | 1-5/8" Ø x 1'-0 EACH END | |
| L-2 | W 8x18 WITH ¼" BOT. PLATE | 8" EA. END | 1-5/8" Ø x 1'-0 EACH END | |
| L-3 | W 16x26 WITH ¼" BOT. PLATE | 1'-0 EA. END | 1-¾" Ø x 1'-0 EACH END | |
| L-4 | W 24 x 84 WITH ¼" BOT. PLATE | 1'-0 EA. END | 1-¾" Ø x 1'-0 EACH END | SEE SECT. B/S-6 |
| L-5 | 2 - L 3½x3½x5/16 W/ ¼" BOT. PLATE | 6" EA. END | NONE | SECT. A/S-7 - OMIT ¼" PLATE AT BEARING EACH END. |
| L-6 | | 6" EA. END | NONE | 10" MAS. WALL OPNGS. - TACK WELD ANGLES TOGETHER - SEE NOTE #5 ABOVE. |
| L-7 | 3 - L 4x3½x¼ L.L.V. | 6" EA. END | NONE | MECHANICAL OPENINGS IN WALL AT ⑪ (S-4 MAX. OPENING). |
| L-8 | | | | |

NOTES:
1. SEE NOTE #4 AT "TYP. MASONRY LINTELS" FOR STEEL PLATE ON BEAM LINTELS.
2. REGARDLESS OF OPENING SIZES, PROVIDE SOLID OR GROUTED MASONRY JAMB FOR FULL BEARING LENGTH (MIN.) BY FULL WALL THICKNESS BY FULL OPENING HEIGHT.
3. PROVIDE ONE ANCHOR BOLT EACH SIDE OF OPENING.
4. SEE SECT. C/S-6 FOR LINTELS ADJACENT TO ARCADE PILASTERS WHERE BEARING LENGTH CANNOT BE MET.

## FOOTING SCHEDULE

| MARK | SIZE | THICKNESS | REINFORCING | REMARKS |
|---|---|---|---|---|
| ① | 4'-0 SQUARE | 1'-0 | 4-#4 E.W. - BOT. | NOT USED |
| ② | 5'-0 | 1'-0 | 6-#4 E.W. - BOT. | NOT USED |
| ③ | 5'-0 | 1'-0 | 8-#4 E.W. - BOT. | |
| ④ | 6'-0 | 1'-4 | 8-#5 E.W. - BOT. | |
| ⑤ | 6'-0 | | 6-#5 E.W. - BOT. | |
| ⑥ | 7'-0 | | 8-#5 E.W. - BOT. | |
| ⑦ | 7'-0 | | 10-#5 E.W. - BOT. | |
| ⑧ | 8'-0 | | 12-#5 E.W. - BOT. | NOT USED |
| ⑨ | 5'-0 | | 3-#4 E.W. - BOT. | |
| ⑩ | 6'-0 | | 4-#4 E.W. - BOT. | |
| ⑪ | 6'-0 | | 6-#4 E.W. - BOT. | |
| ⑫ | 7'-0 | | 8-#4 E.W. - BOT. | |
| ⑬ | 7'-0 | | 6-#5 E.W. - BOT. | |
| ⑭ | 8'-0 | | 8-#5 E.W. - BOT. | |
| ⑮ | 8'-0 | 1'-4 | 11-#5 E.W. - BOT. | NOT USED |
| ⑯ | 5'-0 | 1'-0 | 5-#4 E.W. - BOT. | NOT USED |
| ⑰ | 6'-0 | | 7-#4 E.W. - BOT. | NOT USED |
| ⑱ | 6'-6 | | 9-#4 E.W. - BOT. | |
| ⑲ | 7'-0 | | 8-#5 E.W. - BOT. | NOT USED |
| ⑳ | 7'-0 | | 9-#5 E.W. - BOT. | |
| ㉑ | 8'-0 SQUARE | 1'-0 | 10-#5 E.W. - BOT. | NOT USED |

NOTES:
1. SEE COLUMN SCHEDULE ABOVE FOR NUMBER AND LOCATION OF COLUMN FOOTINGS.
2. CONTINUOUS WALL FOOTINGS ARE NOT A PART OF THIS SCHEDULE. - SEE SECTIONS.
3. ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATURAL SOILS OR ADEQUATELY COMPACTED BACKFILL - SEE SPECIFICATIONS AND SOILS REPORT.
4. SEE PLAN AND SECTIONS FOR TOP OF FOOTING ELEVATIONS. THICKNESS IS MINIMUM DISTANCE FROM TOP OF FOOTING ELEVATION TO THE SURFACE ON WHICH FOOTING IS PLACED. AN INCREASE IN FOOTING THICKNESS OF OVER 4" MAY REQUIRE ADJUSTMENT IN FOOTING SIZE AND REINFORCEMENT. CONTACT STRUCTURAL ENGINEER.
5. ALL FOOTING REINFORCING SHALL BE PLACED 3" MIN. CLEAR AT THE BOTTOM AND 2" AT ALL SIDES AND TOP.
6. FOOTINGS SUPPORTING CONCRETE WALLS AND/OR MASONRY PILASTERS SHALL HAVE REBAR DOWELS AS SHOWN ON SECTIONS K/S-4 & L/S-4.
7. FOOTINGS SUPPORTING COLUMNS WITHIN 2'-0 OF AN EXISTING GRID LINE ARE TO BE CENTERED ON THE ℄ OF COLUMN - EACH WAY. COLUMNS WITHIN 2'-0 OF AN EXISTING GRID LINE ARE NOT GIVEN SPECIAL MARKS. SEE PLANS & SECTIONS FOR SUCH OFFSETS.
8. FOOTINGS SUPPORTING COLUMNS AND/OR CONCRETE WALLS, MASONRY WALLS & MASONRY PILASTERS ARE NOT CENTERED ON ℄ COLUMNS. - SEE SPECIFIC DETAILS FOR FOOTING LOCATION.
9. ABBREVIATIONS USED IN THIS SCHEDULE:
   T.O.F. = TOP OF FOOTING ELEVATION. E.W. = EACH WAY. BOT. = BOTTOM.
10. AT FOOTINGS DOWELED WITH CONTINUOUS WALL FOOTINGS EXTEND CONTINUOUS FOOTING REINFORCING THROUGH. COLUMN FOOTING CONTINUOUS TOP BARS MAY BE SPLICED AT ℄ FOOTING ONLY, BOTTOM BARS MAY BE SPLICED TO WALL BETWEEN FOOTINGS ONLY.
11. SEE GENERAL NOTES & SPECIFICATIONS FOR FURTHER REQUIREMENTS.

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

STATE OF COLORADO — Robert Sanford Ralston — 8138 — William C. Kramer — LICENSED — ARCHITECT

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
GENERAL NOTES.
TYPICAL DETAILS.
SCHEDULES.

JOB NO. 7907-638A
DRAWN D.H. BROWN
CHECKED G. -
DATE 8 MAY 80
REVISED

DRAWING NUMBER
S-4
OF 7 DRAWINGS

# SSES

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

STATE OF COLORADO — Robert Sanford Ralston — 8581 — LICENSED ARCHITECTS

STATE OF COLORADO — 8138 — REGISTERED PROFESSIONAL ENGINEER — CHARLES L. LARSEN

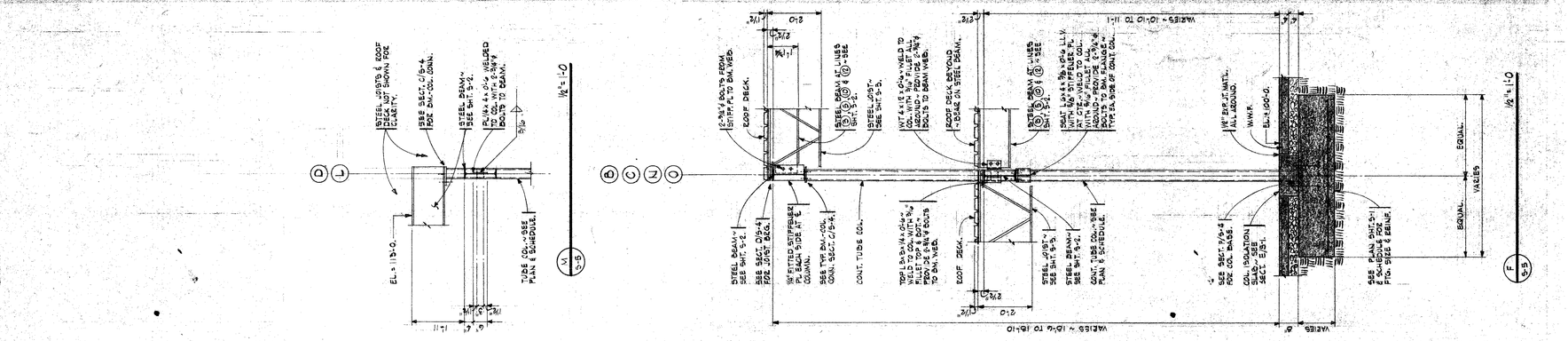
Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Numa & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE: WALL SECTIONS, STEEL DETAILS.

| | |
|---|---|
| JOB NO. | 7927-ARSA |
| DRAWN | LEK |
| CHECKED | SL |
| DATE | 8 MAY 80 |
| REVISED | |

DRAWING NUMBER: **S-5** OF 5 DRAWINGS


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

| | |
|---|---|
| DRAWING NUMBER | S-6 |
| JOB NO. | 1927-25A.1 |
| DRAWN | LEK. |
| CHECKED | SK. |
| DATE | 25 MAY 93 |
| REVISED | |

OF 7 DRAWINGS

TITLE WALL SECTIONS

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

LYNN E. LYKKEN — REGISTERED — 8138 — PROFESSIONAL ENGINEER — STATE OF COLORADO

STATE OF COLORADO — Robert Sanford Ralston B-501 — William A. Muchow B-259 — LICENSED ARCHITECTS

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

# SSES

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

STATE OF COLORADO
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TITLE ARCADE WALL SECTIONS. ARCADE TRUSS.

| | |
|---|---|
| JOB NO. | 7257-a26A |
| DRAWN | LEEK |
| CHECKED | SE |
| DATE | 2 MAY 80 |
| REVISED | |
| DRAWING | NUMBER |

DRAWING **S-7** OF 7 DRAWINGS

## ARCADE TRUSS MARK "T-1"

1. WEB PLATES SHALL BE PATTERN CUT SIZED AS SHOWN. MIN. PL SIZE SHALL BE 3/8" x 4" EXCEPT STITCH PL MAY BE 5/16" x 1".
2. WELDS SHOWN SHALL BE MADE AT EACH END OF EACH ANGLE AT BOTH FACES OF TRUSS, UNLESS OTHERWISE SHOWN.
3. ANGLES SHALL BE CLOSE TOGETHER AS POSSIBLE AND JOINTS ≤ 1/16" MAX. GAP EXCEPT AT VERTICAL MEMBERS SHOWN ~ LONG LEGS SHALL BE BACK TO BACK.
4. SEE GENERAL NOTES ON SHEET S-1 FOR OTHER REQUIREMENTS.

1/2" = 1-0

6 SPACES @ 8'-0" = 48'-0"

APPLIED LOADS ~ TYP.

TOP CHORD: 2 L 3½ x 3½ x 5/16 CONT. ~ NO SPLICES.

TOP CHORD COVER PL 5/16 x 4" x VAR. LENGTH WITH FILLET WELD AT SPACERS.

COVER PL.

PL 1/4 x 2 1/2 x 1/4 SPACER AT EACH PANEL POINT.

STITCH PL NOT REQD AT BOTH CHORDS WHERE WEB MEMBER IS WELDED.

BOT. CHORD: 2 L 3½ x 3½ x 1/4 CONT. ~ NO SPLICES.

SAMPLE BOT. CHORD 1/2" AT 4'-0".

TYP. WELD AT EACH END OF EACH VERTICAL ANGLE.

SAW CUT ENDS OF VERTICAL ANGLES TO FIT BOT. CHORD & TOP CHORD ANGLES AT SHEET. PL. ALL AROUND.

WT 6 x 25 CUT WITH TEFLON TAPE BETWEEN WT & BOT. CHORD

WT 6 x 25 CUT WITH TEFLON TAPE BETWEEN WT & BOT. CHORD WELDED TO BOT.

R= 93'-4"

R= 93'-4"

EL. = 123'-4.

EL. = 123'-4.

EL. = 122'-10.

EL. = 122'-5.

EL. = 121'-4.

EL. = 121'-4.

TRUSS ~ SEE DETAIL THIS SHT.

TRUSS ~ SEE DETAIL THIS SHT.

INVERTED ROOF DECK ~ SEE SHT. S-5.

TYP. OVERHANG SEE SHT. S-5

TS 10 x 6 TUBE PAINTED CAP INTO 1/8" MIN. PLATE.

4" x 5/8 BOLD BEAM WITH 2 PL 1/2 x 6 x 0'-6" BRG. PL WELDED TO ANGLE & BOLTED TO WALL AT 4'-0" CENTERS.

4" x 5/8 BOLD BEAM WITH 2 PL 1/2 x 6 x 0'-6" BRG. PL WELDED TO ANGLE & BOLTED TO WALL AT 4'-0" CENTERS.

L 6 x 4 x 5/16 BOLTED TO WALL AT 4'-0" CENTERS.

L 6 x 4 x 5/16 BOLTED TO WALL AT 4'-0" CENTERS.

SEE AREA FOR TOP OF WALL.

SEE AREA FOR TOP OF WALL.

SEE DETAILS ON SHT. S-5 FOR LIGHT GAGE FRAMING.

SEE DETAILS ON SHT. S-5 FOR LIGHT GAGE FRAMING.

4" BRICK.

4" BRICK.

SEE SECT. D/S-7 FOR TYP. NOTES.

SEE SECT. D/S-7 FOR TRUSS BEYOND (NOT SHOWN)

LINTEL "L-5" ~ SEE SPECIAL LINTEL SCHEDULE, SHT. S-4.

LINTEL "L-5" ~ SEE SPECIAL LINTEL SCHEDULE, SHT. S-4.

SEE SECT. H/S-1 FOR VERT. REINF. SIZE & SPACING.

SEE SECT. H/S-1 FOR VERT. REINF. SIZE & SPACING.

4" x 16" BOLD BEAM WITH 3 #5 CONT. 5 THRU.

4" x 16" BOLD BEAM WITH 3 #5 CONT. 5 THRU.

SEE SECT. A/S-4 FOR JST. BRG.

ROOF DECK.

STEEL JOISTS ~ SEE SHT. S-5.

STEEL BEAMS ~ SEE SHT. S-2.

TUBE COL. ~ SEE WALL & SCHEDULE.

DOWEL x SIZE & MATCH VERT. WALL REINF. SIZE & SPACING.

CAVITY WALL JOINT REINF.

1/2" EXP. JT. MAT'L. EACH SIDE.

W.W.F.

EL. = 100'-0.

SEE SECT. F/S-1 FOR COL. BASE.

CONT. 1 1/2 x 2 1/2 x 1/4 WITH 3/4 x 4 0 ANCH. BOLTS @ 8'-0" CENTERS.

CONC. ISOLATION SLAB ~ SEE SECT. F/S-1.

SEE PLAN SHT. S-1 & SCHEDULE FOR FTG. SIZE & REINF.

3 ~ #5 CONT. TOP & BOT.

#4 TIES @ 4'-0.

EQUAL.

EQUAL.

EQUAL.

EQUAL.

1/2" = 1-0

1/2" = 1-0

1/2" = 1-0

1/2" = 1-0

(T) S-7

(C) S-7

(B) S-7

(A) S-7

(G) S-7

SECT. F/S-1 SHT. SUPPLIES ADD'L REINF. FOR OVERLAY.

SEE SECT. A/S-1 FOR TOP OF TUBE & ANCHOR BOLTS.

SEE SECT. A/S-1 FOR TOP OF TUBE AT EDGE OF WINDOW.

SEE SECT. A/S-1 FOR TOP OF TUBE AT EDGE OF FIELD WELDS ~ ALL SIDES.

SEE SECT. A/S-1 FOR TYP. DTL. EACH SIDE LOCATIONS.

SEE SECT. A/S-1 FOR TYP. DTL. EACH SIDE LOCATIONS.

SEE SECT. D/S-5 FOR COLUMN CASE.

SEE SECT. A/S-1 FOR TYP. DTL. EACH SIDE LOCATIONS.

SEE PLANS & SCHEDULE FOR FTG. SIZE & ANCHOR BOLTS.

SEE SECT. A/S-1 FOR PLASTER REVEAL AT BASE.

SEE SECT. A/S-1 FOR PLASTER REVEAL AT BASE.

SEE SECT. A/S-1 FOR PLASTER REVEAL AT BASE.

SEE SECT. A/S-1 FOR PLASTER REVEAL AT BASE.

1/2" EXP. JT. MAT'L.

1/2" EXP. JT. MAT'L.

W.W.F.

W.W.F.

EL. = 100'-0.

EL. = 100'-0.

CONT. CONC. FOOTING.

CONT. CONC. FOOTING.

3-#5 CONT. TOP & BOT.

3-#5 CONT. TOP & BOT.

#4 TIES @ 4'-0.

#4 TIES @ 4'-0.

#4 SPIRAL @ 12" TOP & BOT.

#4 SPIRAL @ 12" TOP & BOT.

#4 SPIRAL @ 12" TOP & BOT.

#4 SPIRAL @ 12" TOP & BOT.

EQUAL.

EQUAL.

EQUAL.

EQUAL.

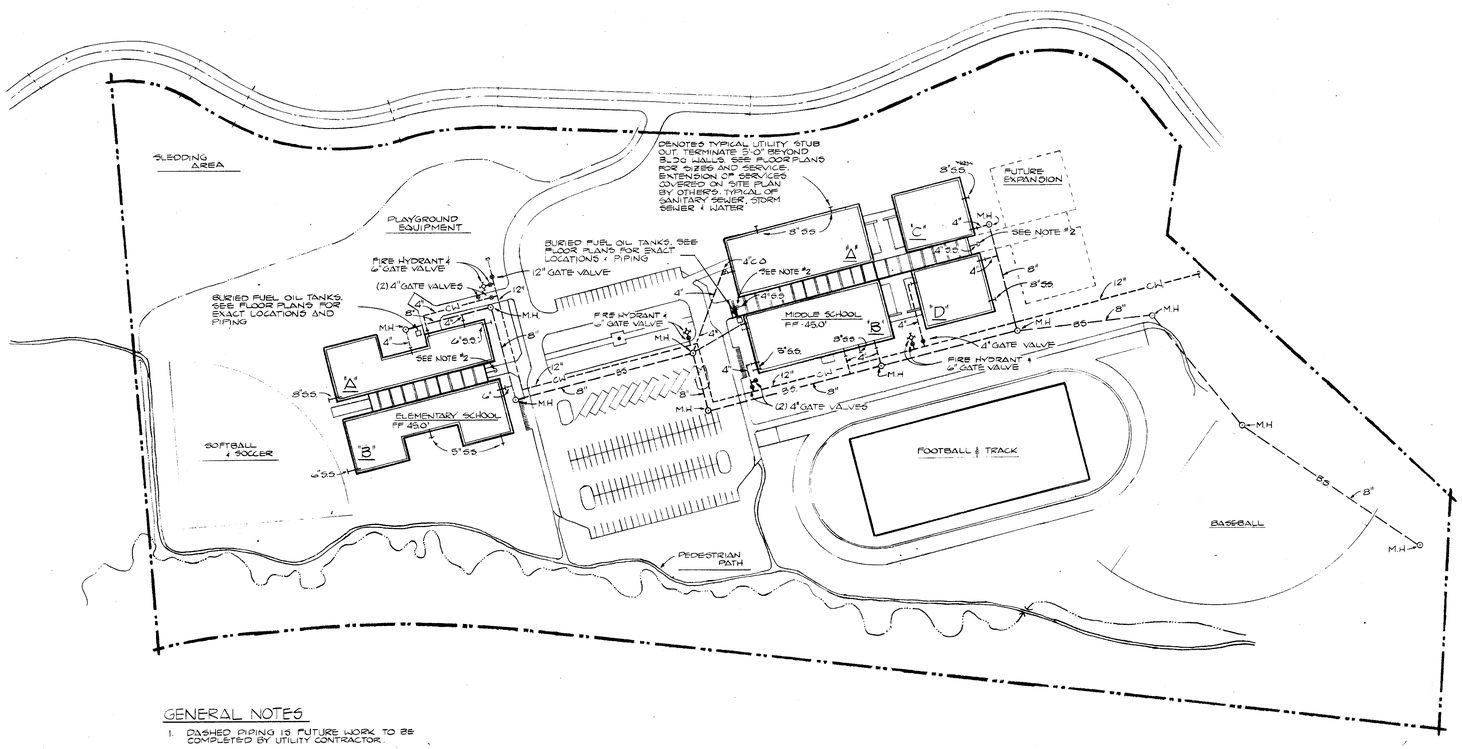
1/2" = 1-0

1/2" = 1-0

(F) S-7 SOUTH ARCADE WALL ~ NORTH FOR SIM.

(E) S-7

(D) S-7




## SITE PLAN

SCALE 1"=50'0"

GENERAL NOTES

1. DASHED PIPING IS FUTURE WORK TO BE COMPLETED BY UTILITY CONTRACTOR.
2. ARCADE FLOOR DRAIN PIPING SHALL BE CONNECTED TO DRAIN TILE ON OUTSIDE OF BUILDING.
3. BUILDING SEWERS, STORM DRAINS AND WATER PIPING SHALL BE EXTENDED 5'-0" OUTSIDE OF BUILDING WITH MARKER TO GRADE.

## LEGEND

| | | |
|---|---|---|
| TCD | | TEMPERATURE CONTROL DAMPER |
| TCOAD | | TEMPERATURE CONTROL OUTSIDE AIR DAMPER |
| TCEAD | | TEMPERATURE CONTROL EXHAUST AIR DAMPER |
| TCRAD | | TEMPERATURE CONTROL RETURN AIR DAMPER |
| | T | THERMOSTAT |
| | TN | NIGHT THERMOSTAT |
| | | DUCT FIRE DAMPER |
| MVD | | MANUAL VOLUME DAMPER |
| MOD | | MOTOR OPERATED DAMPER |
| CAP | | CEILING ACCESS PANEL |
| WAP | | WALL ACCESS PANEL |
| DAD | | DUCT ACCESS DOOR |
| | | TURNING VANES IN DUCT ELBOW |
| | | FLEXIBLE DUCT CONNECTION |
| | | FLEXIBLE DUCTWORK W/ SPIN-IN FITTING W/ MVD |
| UH | | UNIT HEATER |
| UV | | UNIT VENTILATOR |
| EF | | EXHAUST FAN |
| SF | | SUPPLY FAN |
| IGB | | INFRARED GAS BURNER |
| BC | | BALANCING COCK |
| GC | | GAS COCK |
| | | PRESSURE &/OR TEMPERATURE RELIEF VALVE |
| | | STRAINER |
| | | CHECK VALVE |
| | | GATE VALVE |
| | | GLOBE VALVE |
| | | UNION |
| | | THERMOMETER |
| | | PRESSURE GAUGE |
| PA | | PIPE ANCHOR |
| TDH | | TOTAL DYNAMIC HEAD |
| SP IN $H_2O$ | | STATIC PRESSURE IN INCHES WATER COLUMN |
| | | PITCH DOWN IN DIRECTION OF ARROW |
| CW | | DOMESTIC COLD WATER |
| HW | | DOMESTIC HOT WATER |
| V | | VENT PIPING |
| VTR | | VENT THROUGH ROOF |
| RD | RD | ROOF DRAIN |
| W | W | WASTE PIPING (ABV. FLR.) |
| BD | BD | BUILDING DRAIN (BEL. FLR. IN BLDG.) |
| BS | BS | BUILDING SEWER (BEL. GRADE OUTSIDE BLDG.) |
| SD | SD | STORM SEWER |
| FOS | FOS | FUEL OIL SUPPLY |
| FOR | FOR | FUEL OIL RETURN |
| G | G | GAS PIPING |
| SCO | SCO | SURFACE CLEANOUT |
| FCO | FCO | FLOOR CLEANOUT |
| WCO | WCO | WALL CLEANOUT |
| LCO | LCO | LINE CLEANOUT |
| FD | | FLOOR DRAIN |
| CI | | CAST IRON |
| SA | | SHOCK ABSORBER |
| INV.EL. | | INVERT ELEVATION |
| HWC | | HOT WATER CIRC. |
| ABV | | ABOVE |
| AFF | | ABOVE FINISHED FLOOR |
| M.H | | MANHOLE |
| FH | | FIRE HYDRANT |
| FS | | FLOOR SINK |
| MTD | | MOUNTED |
| RDL | RDL | ROOF DRAIN LEADER |
| | | 1" THICK DUCT LINER |

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

**SSES**


Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver


TITLE
SITE PLAN & LEGEND

| | |
|---|---|
| JOB NO. | 7907 638A |
| DRAWN | J.E.H |
| CHECKED | D.P.R |
| DATE | MAY 8, 1980 |
| REVISED | |

DRAWING NUMBER

**M1**

OF 7 DRAWINGS

## EXHAUST FAN SCHEDULE

| DESIGNATION | CFM @ 6800' | S.P. @ S.L. | WHEEL DIA. | FAN SPEED | HP | MANUFACTURER & MODEL NO. | FAN TYPE & MOUNTING | ENERGIZED BY |
|---|---|---|---|---|---|---|---|---|
| EF-1 | 80 | .15" | ——— | 1050 | 1/50 | GREENHECK SP-15 | CENTRIFUGAL CLG. EXHAUSTER | LIGHT SWITCH |
| EF-2 | 100 | .25" | ——— | 1550 | 1/50 | GREENHECK SP-17 | ↑ | LIGHT SWITCH |
| EF-3 | 160 | .25" | ——— | 1050 | 1/40 | GREENHECK SP-2.5 | | LIGHT SWITCH |
| EF-4 | 180 | .20" | ——— | 1050 | 1/40 | GREENHECK SP-2.5 | | WALL SWITCH |
| EF-5 | 230 | .375" | ——— | 1550 | 1/15 | GREENHECK SP-27 | | TIME CLOCK |
| EF-6 | 320 | .25" | ——— | 1550 | 1/15 | GREENHECK SP-27 | ↓ | TIME CLOCK |
| EF-7 | 1000 | .15" | ——— | 1100 | 1/6 | GREENHECK SP-60 | | WALL SWITCH |
| EF-8 | 480 | .20" | ——— | 1000 | 1/15 | GREENHECK SP-50 | CENTRIFUGAL CLG. EXHAUSTER | KILN RM. - T'STAT ART RM. - WALL SW. |
| EF-9 | 950 | .25" | 10" | 1100 | 1/15 | GREENHECK SP-60 | CENTRIFUGAL CLG. EXHAUSTER | WALL T'STAT |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

## AIR DEVICE SCHEDULE

| DESIGNATION | TYPE OF INSTALLATION | MANUFACTURER & MODEL NO. | ACCESSORIES | FINISH | PANEL OR FACE SIZE (IF REQ'D) |
|---|---|---|---|---|---|
| CD-1 | LAY-IN | T&B CTL4-FF | CONTROL GRID CT-TF (1) | W-1 | 23 3/4" x 23 3/4" |
| SR-1 | SIDEWALL | T&B NT64 | ——— | PRIME COAT | ——— |
| | | | | | |
| | | | | | |
| EG-1 | SIDEWALL | T&B NT60 | ——— | PRIME COAT | ——— |
| TG-1 | SIDEWALL | T&B NT60 | ——— | W-1 | ——— |
| RG-1 | LAY-IN | T&B CTPV | ——— | W-1 | 23 3/4" x 11 3/4" |
| RG-2 | LAY-IN | T&B CTPV | ——— | W-1 | 23 3/4" x 23 3/4" |
| RG-3 | SIDE-WALL | T&B T70 DG | ——— | PRIME COAT | ——— |
| | | | | | |
| | | | | | |
| | | | | | |

(1) PROVIDE CONTROL GRID ONLY WHERE SPACE NOT AVAILABLE FOR TEE. SEE DETAIL.

## SUPPLY UNIT SCHEDULE

| DESIGNATION | CFM @ 6800' | EXT. S.P. @ S.L. | FAN HP | MANUFACTURER & MODEL NO. | HTG CAP. INPUT @ S.L. | MIN. OA CFM | MAX O.A. CFM |
|---|---|---|---|---|---|---|---|
| SF-1 | (1) 3,000 | 0.30" | 1 | REZNOR SCE-200 | 200 MBH | 1500 | 3000 (3) |
| SF-2 | (1) 3,000 | 0.30" | 1 | REZNOR SCE-200 | 200 MBH | 1500 | 3000 (2) |
| | | | | | | | |
| | | | | | | | |

(1) PROVIDE FILTER-MIX BOX, WITH 2" THICK "FARR" 30/30 FILTERS OR EQUAL AT MAX. 250 FPM FACE VELOCITY
(2) PROVIDE ASHRAE NO.II ECONOMY CYCLE
(3) PROVIDE ASHRAE NO.II ECONOMY CYCLE WITH SET BACK.
(4) SEE TEMPERATURE CONTROL SPECIFICATIONS FOR OTHER REQUIREMENTS.
(5) PROVIDE SOLID STATE ELECTRONIC GAS MODULATION.

## INFRARED GAS BURNER SCHEDULE

| DESIGNATION | S.L. INPUT (MBH) | FUEL | MANUFACTURER & MODEL NO. |
|---|---|---|---|
| IGB-1 | 10 | NATURAL GAS | CO-RAY-VAC (1) (3) CRV-A2 |
| IGB-2 | 40 | NATURAL GAS | CO-RAY-VAC (1) (3) CRV-A-4 |
| IGB-3 | 30 | NATURAL GAS | CO-RAY-VAC (1) (2) (3) CRV-5-40 |
| | | | |
| | | | |

(1) PROVIDE T'STAT & CONTROL KIT.
(2) DERATE BURNER FROM 40 TO 30 MBH
(3) PROVIDE 1/2 HP, 120V/1PH/60 CYC. VACUUM PUMP

## UNIT VENTILATOR SCHEDULE

| DESIGNATION | CFM AT 6800' | EXT. S.P. AT S.L. | MOTOR H.P. | MANUFACTURER & MODEL NO. | HTG. CAP. K.W. | ELECTRIC | MIN. O.A. CFM | ARRG. NO. | MOUNTING | REMARKS |
|---|---|---|---|---|---|---|---|---|---|---|
| UV-1 | 750 | 0.29" | 1/4 | AAF XG 3000 | 4.5 | 480/60/3 | 100 | C6E | FLUSH W/ CEILING | (1)(2)(3)(4)(5) |
| UV-2 | 750 | 0.29" | 1/4 | AAF XG 3000 | 4.5 | ↑ | 100 | C6B | ↑ | (1)(2)(3)(4)(5) |
| UV-3 | 1500 | 0.29" | 1/3 | AAF XG 6000 | 9.0 | | 200 | C6B | | (1)(2)(3)(4)(5) |
| UV-4 | 2000 | 0.29" | 1/3 | AAF 56 8000 | 9.0 | 480/60/3 | 200 | DISCH #6 INLET #7 | FLUSH W/ CEILING | (1)(2)(3)(4)(5) |
| | | | | | | | | | | |
| | | | | | | | | | | |

(1) MINIMUM 3-STAGES OF HEATING.
(2) PROVIDE THROW-AWAY TYPE FILTERS.
(3) PROVIDE ASHRAE NO. II ECONOMY CYCLE.
(4) NIGHT SET BACK REQ'D.
(5) SEE TEMPERATURE CONTROL SPECIFICATIONS FOR OTHER REQUIREMENTS.

## PLUMBING FIXTURE CONNECTION SCHEDULE

| FIXTURE | WASTE | VENT | CW | HW |
|---|---|---|---|---|
| WC-1 WATER CLOSET | 4" | 2" | 1" | — |
| WC-2 WATER CLOSET | 4" | 2" | 1/2" | — |
| L-1, L-1A LAVATORY | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-2, S-2A & S-2B. SINK | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-1 SINK WITH INTERCEPTOR | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| S-6 SINK W/O INTERCEPTOR | 1 1/2" | 1 1/2" | 1/2" | 1/2" |
| UR-1 URINAL | 2" | 1 1/2" | 3/4" | — |
| WH & HB WALL HYDRANT, HOSE BIBB. | — | — | 3/4" | — |
| MSB MOP SERVICE BASIN | 2" | 1 1/2" | 1/2" | 1/2" |
| SH-1 SHOWER WITH BASE BY GEN. CONTR | 2" | 1 1/2" | 1/2" | 1/2" |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

## PUMP SCHEDULE

| DESIGNATION | USE | GPM | TDH | MTR HP | SUCTION SIZE | DISCH. SIZE | EFF. % | TYPE/RPM | MANUFACTURER AND MODEL NO. | CONTROL | ACCESSORIES |
|---|---|---|---|---|---|---|---|---|---|---|---|
| P-1 | DOMESTIC CIRC. | 15 | 20 | 1/4 | 1" | 1" | 40 | IN-LINE 1750 | B&G 60 1" AA | AQUASTAT | ALL BRONZE |
| | | | | | | | | | | | |

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Kurria & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

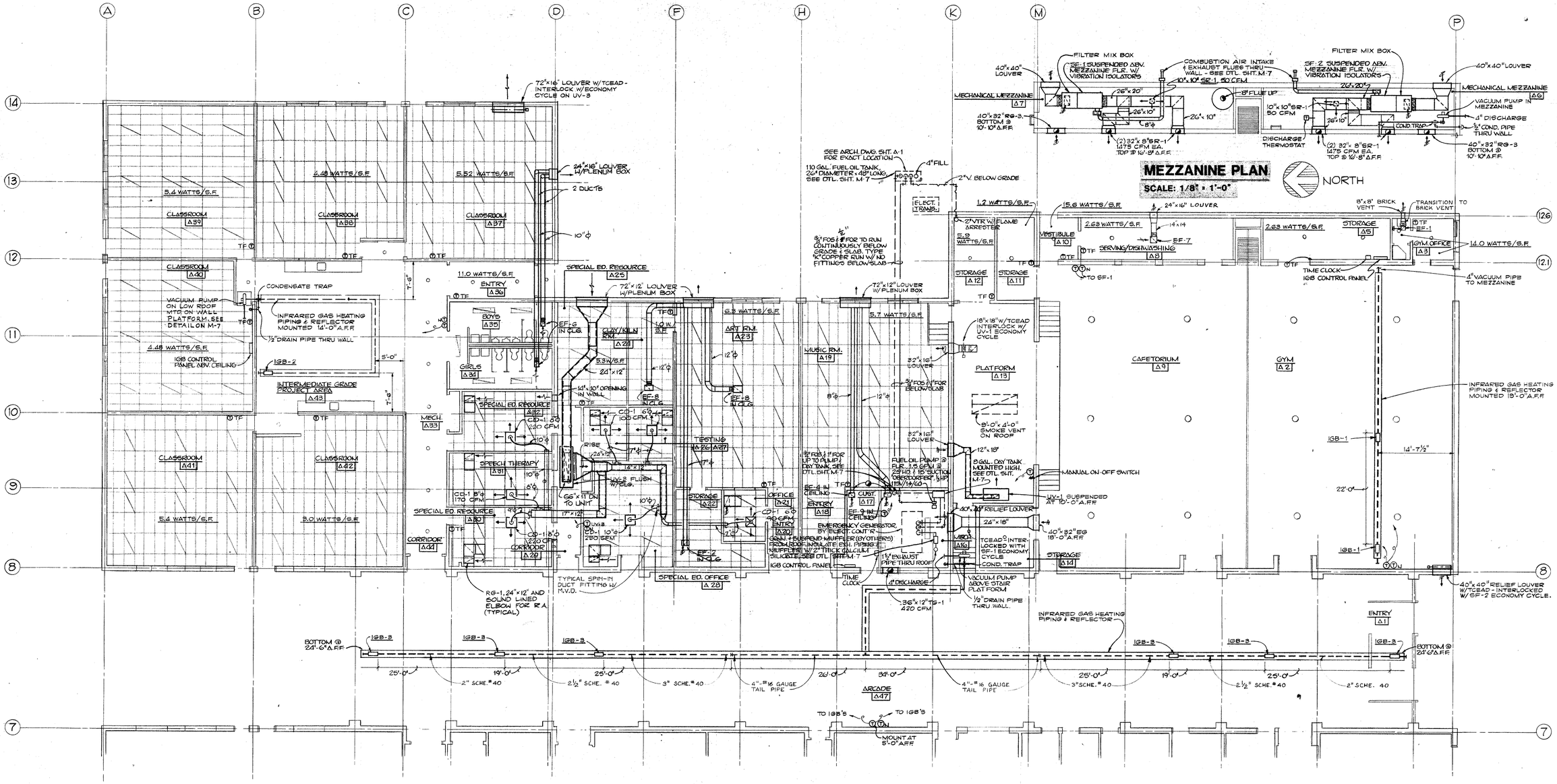
REGISTERED PROFESSIONAL ENGINEER — STATE OF COLORADO — 3803

TITLE
SCHEDULES

JOB NO. 7907 280A
DRAWN J.W.H.
CHECKED D.P.R.
DATE MAY 8, 1980
REVISED

DRAWING NUMBER
M2

OF 7 DRAWINGS




NOTES:

1- ALL FLOOR HEAT (TF) TO ALSO HAVE (TN) ADJACENT.
2- INSULATE ALL OUTSIDE AIR DUCTS WITH 1" THICK FIBERGLASS BLANKET.
3- DUCT DIMENSIONS SHOWN ARE ACTUAL SHEETMETAL OUTSIDE DIMENSIONS.

SECTION "A"
SECTION "B"

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
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Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
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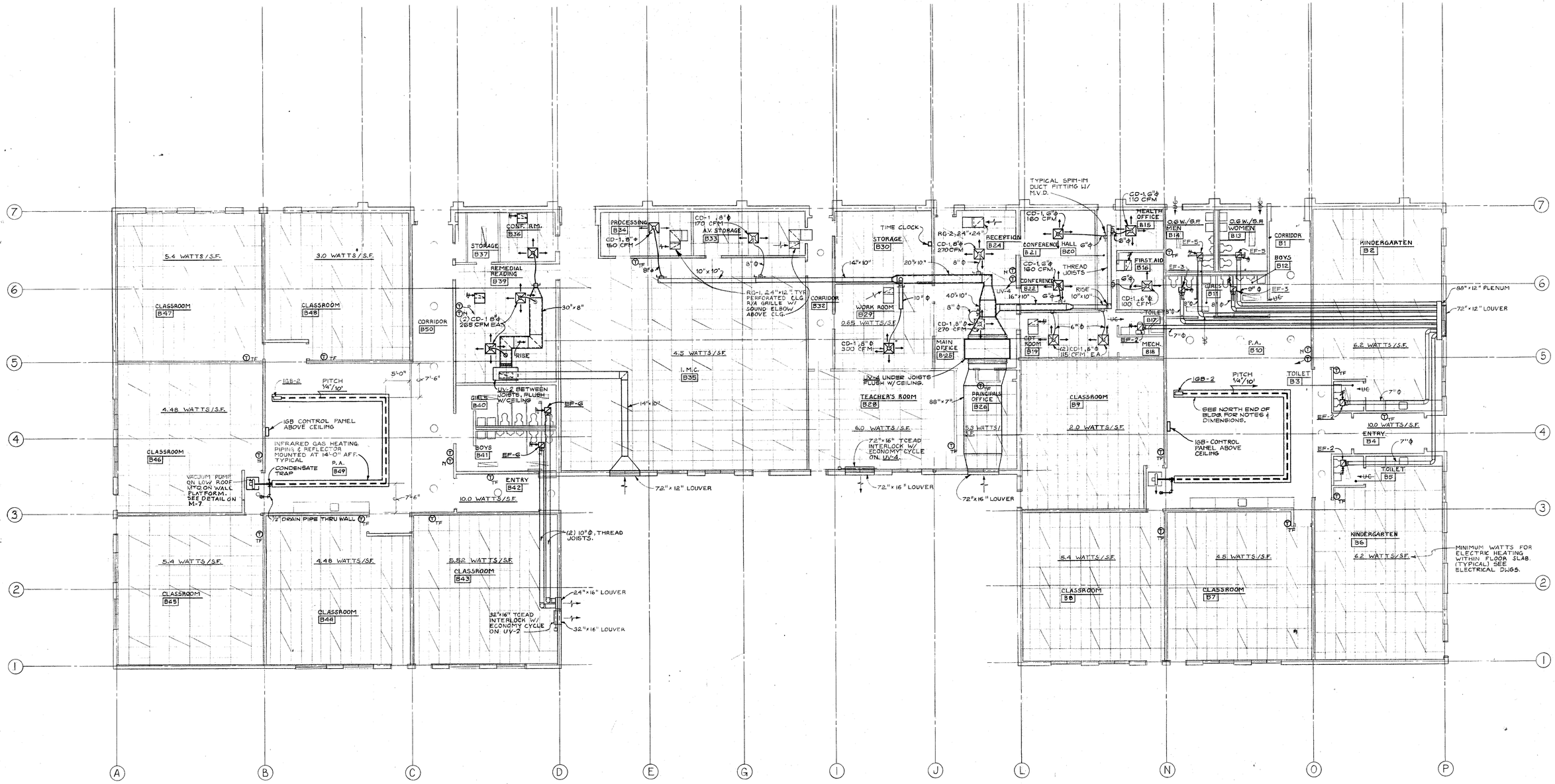
REGISTERED PROFESSIONAL ENGINEERS — STATE OF COLORADO — G. C. CATOR 3903 — S. A. RUMA

TITLE
SECTION "A" FLOOR PLAN - HVAC

JOB NO. 7907 / 238A
DRAWN III
CHECKED D.S.R.
DATE MAY 8, 1980
REVISED

DRAWING NUMBER
M3

OF 7 DRAWINGS




## FLOOR PLAN - SECTION "B"

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

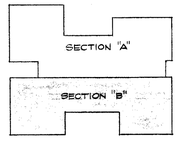
NORTH

NOTES

1- ALL FLOOR HEAT (T)TF TO ALSO HAVE (T)N ADJACENT

2- INSULATE ALL OUTSIDE AIR DUCTS WITH 1" THICK FIBERGLASS BLANKET.

3- ALL DUCTWORK DIMENSIONS SHOWN ARE ACTUAL SHEETMETAL OUTSIDE DIMENSIONS.




STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO
STEAMBOAT SPRINGS

SSES

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REGISTERED PROFESSIONAL ENGINEER C. C. CATOR 3803 STATE OF COLORADO

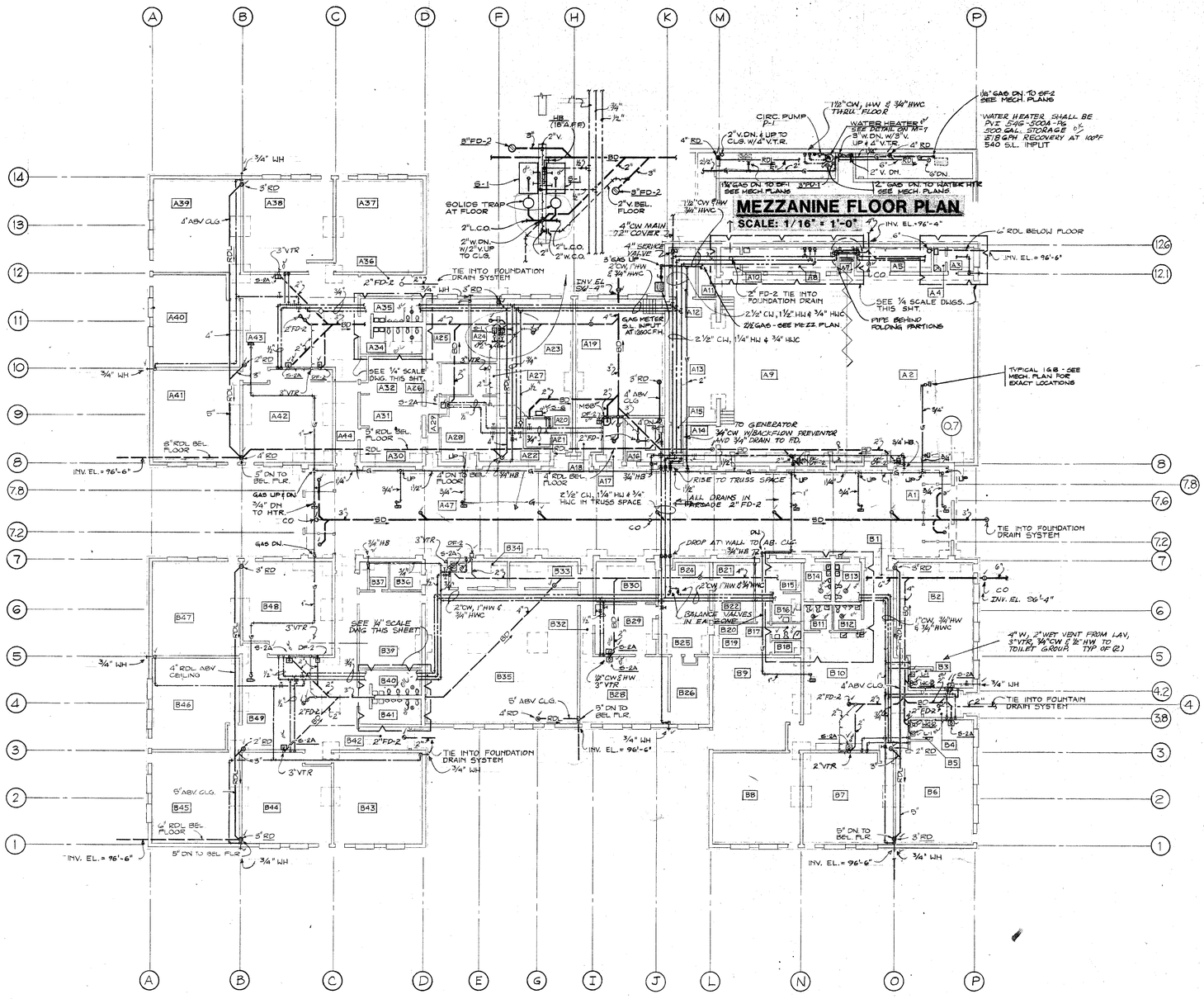
TITLE
SECTION "B" FLOOR PLAN - HVAC

| | |
|---|---|
| JOB NO. | 7807 658A |
| DRAWN | JEH & CDS |
| CHECKED | DPR. |
| DATE | MAY 5, 1980 |
| REVISED | |

DRAWING NUMBER

M4

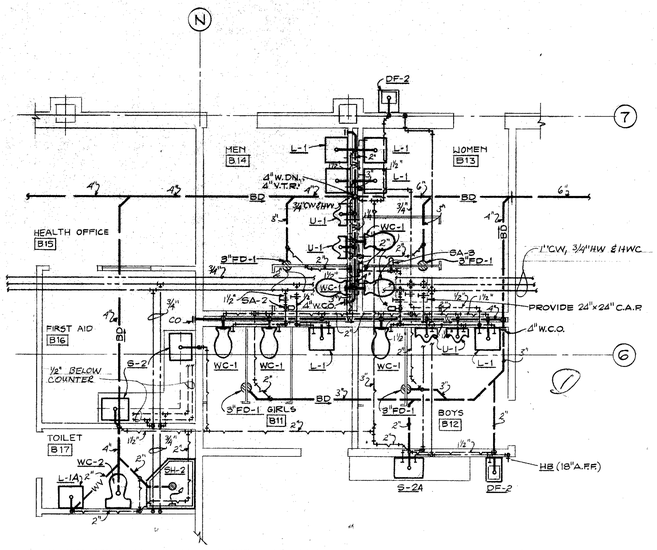
OF 7 DRAWINGS



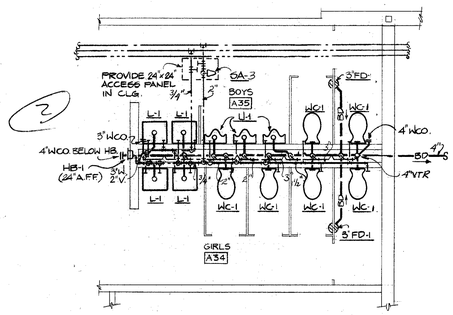

NORTH **ELEMENTARY SCHOOL - PLUMBING**
**SCALE: 1/16" = 1'-0"**

GENERAL NOTES:

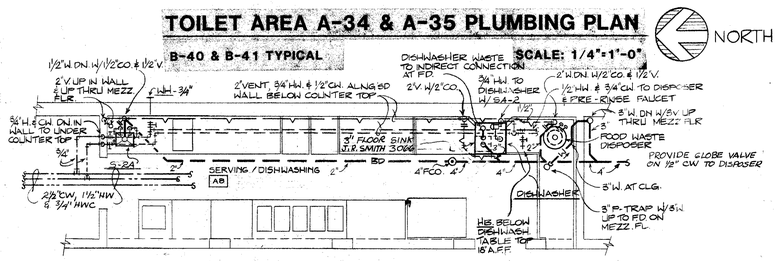
1. ALL FD-2 DRAINS IN ARCADE AND ENTRANCES DO NOT REQUIRE TRAPS.
2. SEE SITE PLAN FOR ADDITIONAL DATA.
3. VERIFY ALL SEWER INVERTS PRIOR TO ROUTING LINES.
4. ALL OVERHEAD PIPING IN ARCADE EXCEPT FOR INFRARED PIPING SHALL BE SUPPORTED FROM WALL HANGER BRACKETS.



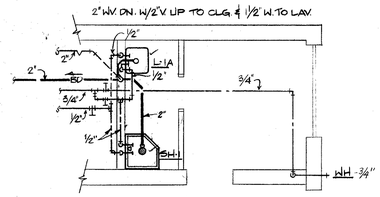

**FIRST AID & TOILET AREA PLUMBING PLAN** NORTH
**SCALE: 1/4" = 1'-0"**




**TOILET AREA A-34 & A-35 PLUMBING PLAN** NORTH
**B-40 & B-41 TYPICAL** **SCALE: 1/4"=1'-0"**




**KITCHEN PLUMBING PLAN** NORTH
**SCALE: 1/4"=1'-0"**




**GYM OFFICE PLUMBING PLAN** NORTH
**SCALE: 1/4"=1'-0"**

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

**SSES**

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

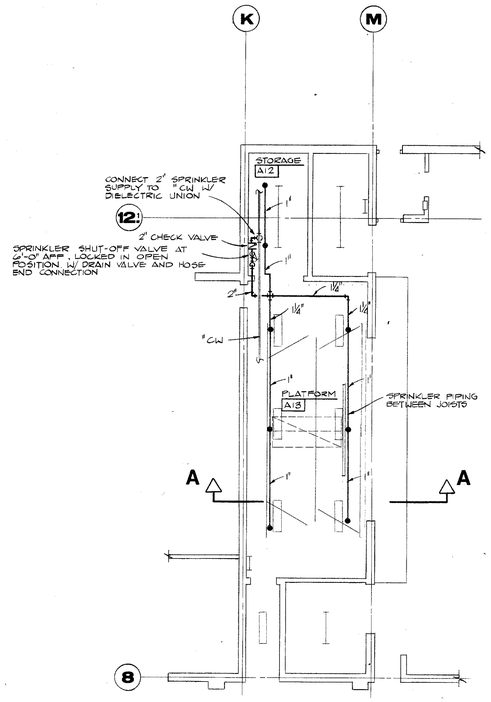
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

TITLE
MAIN & MEZZ. FLR - PLUMBING : 1/4" SCALE - PLBG.

| | |
|---|---|
| JOB NO. | 7907 2884 |
| DRAWN | SMD, DPR, MF |
| CHECKED | D.P.R. |
| DATE | MAY 8, 1980 |
| REVISED | |

DRAWING NUMBER
**M5**

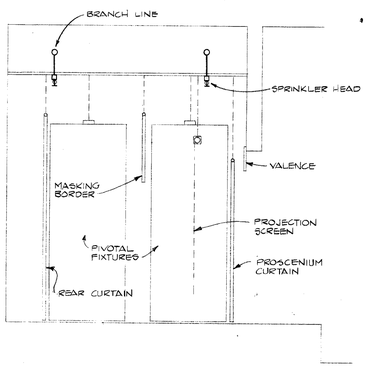
OF 7 DRAWINGS




## PLATFORM - FIRE PROTECTION

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

NORTH




## SECTION "A-A"

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

**STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2**
**STEAMBOAT SPRINGS COLORADO**

**SSES**

REGISTERED PROFESSIONAL ENGINEERS — D. P. RATHE — S. A. RUMA — STATE OF COLORADO

5-7-80

**Robert Sanford Ralston Associates, Architects, Steamboat Springs**
**Muchow & Partners, Architects, Denver**

**Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs**
**Cator, Ruma & Associates, Co., Mechanical Engineers, Denver**
**Garland D. Cox Associates, Inc., Electrical Engineers, Denver**

TITLE

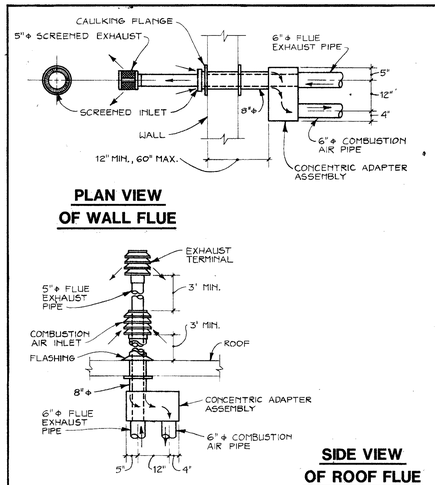
PLATFORM - FIRE SPRINKLER LAYOUT

| | |
|---|---|
| JOB NO. | 7907 7908 |
| DRAWN | S.M.D. |
| CHECKED | D.P.R. |
| DATE | MAY 8, 1980 |
| REVISED | |

DRAWING NUMBER

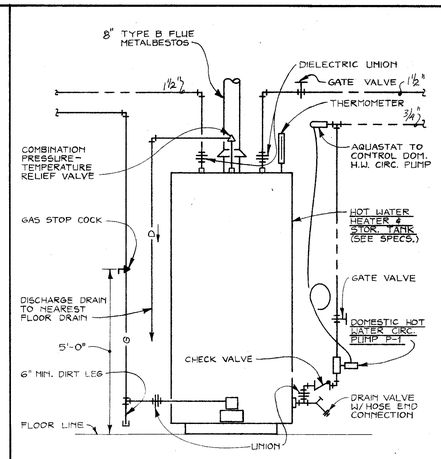
**M6**

OF 7 DRAWINGS



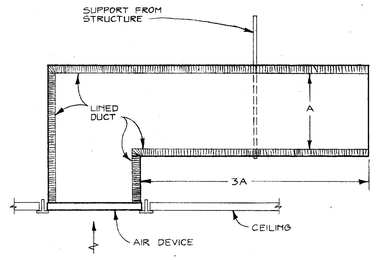

## COMBUSTION FLUE DETAILS

SCALE: NONE



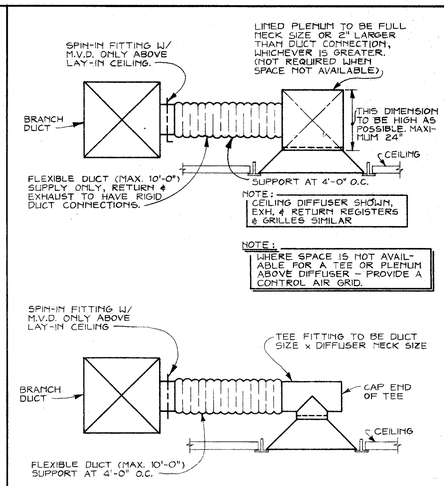

## DOMESTIC HOT WATER HEATER DETAIL

SCALE: NONE



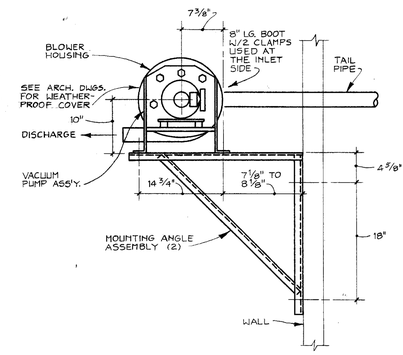

## SOUND ELBOW DETAIL

SCALE: NONE



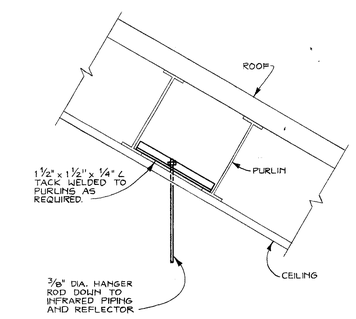

## AIR DEVICE DETAIL

SCALE: NONE



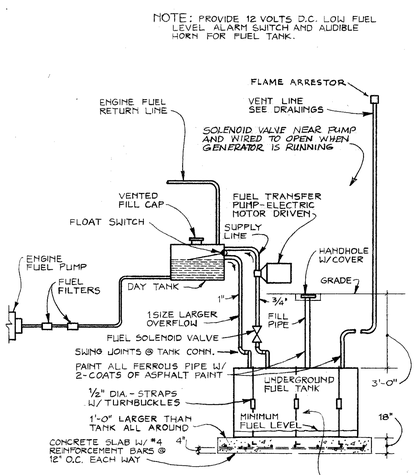

## TYPICAL VACUUM PUMP MOUNTING- CO-RAY-VAC

SCALE: NONE



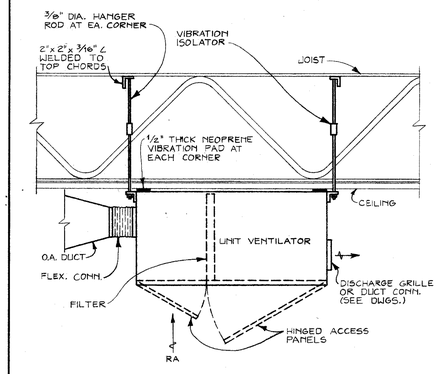

## ARCADE INFRARED HEATING INTERMEDIATE HANGER DETAIL

SCALE: NONE



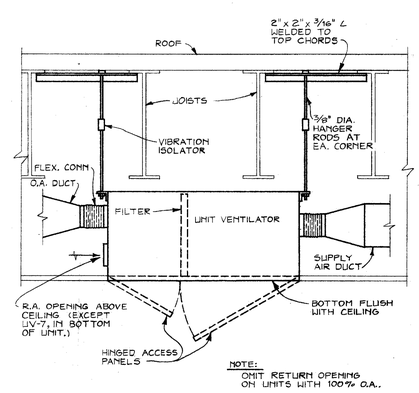

## FUEL TANK & PIPING SYSTEM

SCALE: NONE



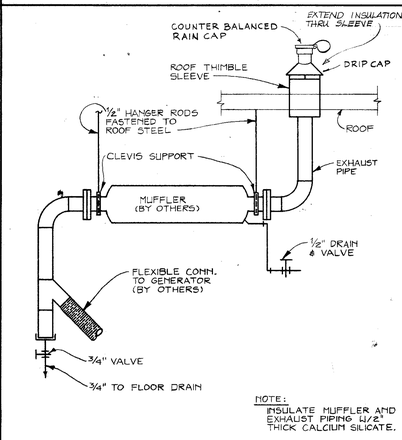

## BELOW CEILING UNIT VENTILATION DETAIL

SCALE: NONE




## ABOVE CEILING UNIT VENTILATION DETAIL

SCALE: NONE




## MUFFLER CONNECTION DETAIL

SCALE: NONE

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

REGISTERED PROFESSIONAL ENGINEER C. L. GATOR 3803 STATE OF COLORADO

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

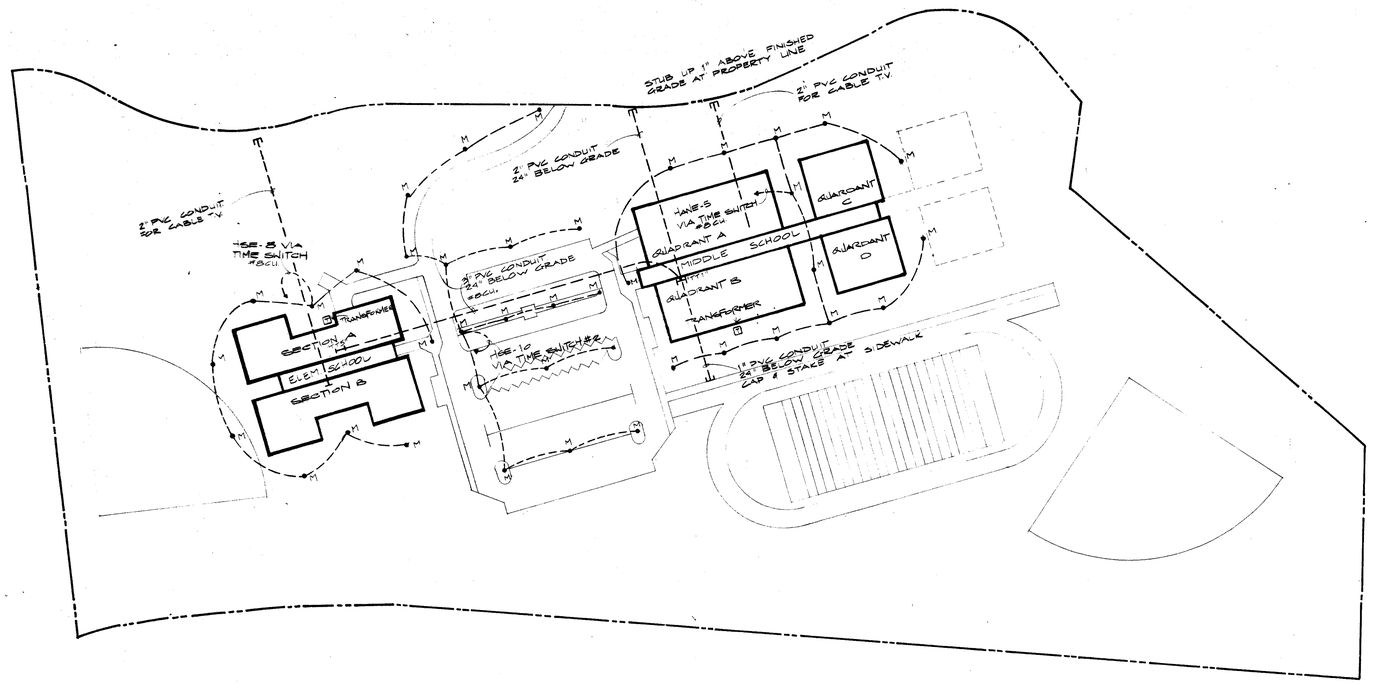
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
DETAILS

JOB NO. 7907 238A
DRAWN J.W.H.
CHECKED D.P.R.
DATE MAY 6, 1980
REVISED

DRAWING NUMBER
M7

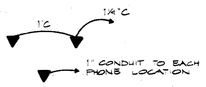
OF 7 DRAWINGS



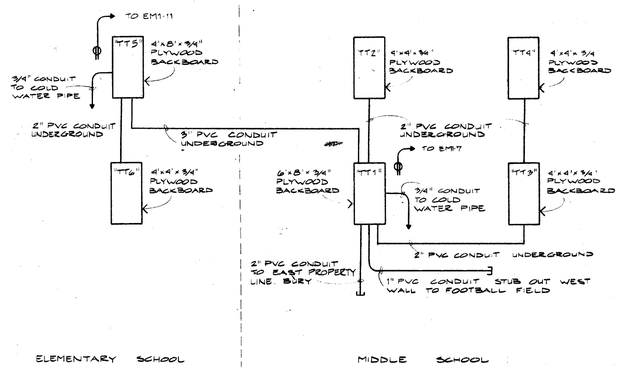

NORTH

# ELECTRICAL SITE PLAN

SCALE 1" = 100'-0"

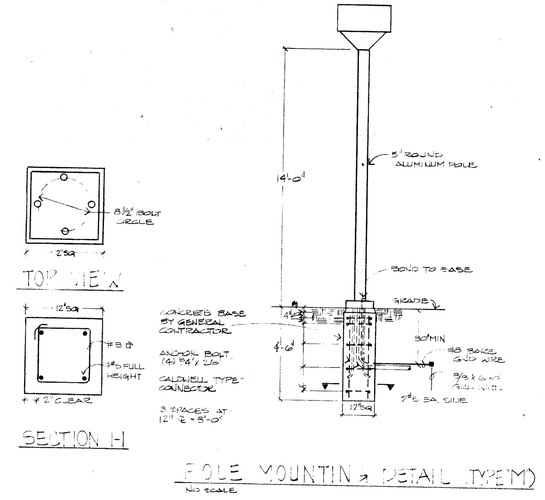



## TYPICAL PHONE CONNECTION




## TELEPHONE ONE-LINE DIAGRAM

N.T.S.




## FIXTURE SCHEDULE

| KEY | # | LAMP CODE | FIXTURE DESCRIPTION | FINISH | MOUNTING DATA: METHOD | RECESS DEPTH | CEILING TYPE | LUMINAIRE SPECIFICATIONS: MFGR | CATALOG # | VOLT |
|---|---|---|---|---|---|---|---|---|---|---|
| A | 3 | F40CW | 2'X4' FLUORESCENT W/PARABOLIC LOUVER | STANDARD | RECESSED | 6-3/8" | GRID "T" | COLUMBIA | 4543G-43-243 | 277 |
| B | 2 | F40CW | 1'X4' FLUORESCENT W/ACRYLIC WRAPAROUND LENS | STANDARD | SURFACE | | GYP "T" | PRUDENTIAL | P-1660-48-RS-PRA | 277 |
| C | 2 | F40CW | 4' STRIP | WHITE | SURFACE | | GYP. BD. | PRUDENTIAL | P122-48RS | 277 |
| C1 | 4 | F40CW | 8' STRIP | WHITE | SURFACE | | GYP. BD. | PRUDENTIAL | P122-96-RSW | 277 |
| D | 1 | MH400 | 2'X2' W/PARABOLIC LOUVER | STANDARD | RECESSED | 15/5" | GYP. BD. | WIDELITE | S64M-400-C 277-HPS | 277 |
| D1 | 1 | MH400 1 150Q/DC | 2'X2' W/PARABOLIC LOUVER | STANDARD | RECESSED | 15.5" | GRID "T" | WIDELITE | S64M-400-C 277-1Q-1-HPS | 277 |
| E | 1 | H-100 | 6" DIA DOWNLIGHT W/BLACK GROOVED BAFFLE | BLACK | RECESSED | 13-5/8" | GYP. BD. | PRESCOLITE | 1057HS-100MV-730 | 277 |
| F | 1 | MV400/BU/1 150/DC | HEXAGONAL SHAPED INDUSTRIAL HID UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING; COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY | STANDARD | PENDANT | | | WIDELITE | S64M-400-SSD-277-1Q-1-120 | 277 |
| F1 | 1 | MV400/BU/1 | HEXAGONAL SHAPED INDUSTRIAL HID UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING; COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY | STANDARD | PENDANT | | | WIDELITE | S64M-400-4SD-277 | 277 |
| F2 | 1 | MV400/BU/1 150Q/DC | HEXAGONAL SHAPED INDUSTRIAL HID UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING; COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY | STANDARD | PENDANT | | | WIDELITE | S64M-400-4SD-277-DQ | 277 |
| G | 2 | F20T1 | 2' WALL BRACKET W/UP & DOWN LIGHT | STANDARD | WALL | | | LIGHTOLIER | 10237 | 277 |
| H | 1 | 150R/FL | 8" DIA DOWNLIGHT W/BLACK ALZAK REFLECTOR | STANDARD | RECESSED | 15-5/8" | GYP. BD. | PRESCOLITE | 1227-986 | 277 |
| J | 2 | F40CW | 4' INDUSTRIAL W/WIRE GUARD | STANDARD | SURFACE | | GYP. BD. | HOLOPHANE | 416-U-248 RS-400-4G HD | 277 |
| K | 2 | F40-HS-CW | 1'X4' -VAPOR TIGHT W/ACRYLIC LENS | STANDARD | SURFACE | | GYP. BD. | DAY-BRIGHT | TH41241-5977 | 277 |
| L | 2 | 15A 1 100A | COMBIN. LTG. & PWR. PNL. SAFELT | STANDARD | RECESSED | 6" | GYP. BD. | ALKCO | 2058-3P | 120 |
| M | 1 | H2150 | SINGLE HEAD CUT OFF LUMINAIRE W/TYPE 5 DISTRIBUTION ON ROUND POLE | MED BRONZE | 14' POLE | | | KIM | D1-402/HDL PD142-5125 MNL/DW1303 | 277 |
| N | 1 | MV175/C/U | -ENCLOSED & GASKETED W/GLASS REFLECTOR WALL BRACKET | DRK BRONZE | BACK MTD-WALL | | | HOLOPHANE | 488-MH-277 B23 | 277 |
| P | 1 | MV250/C/U | -EXPLOSION PROOF W/GLASS REFLECTOR | STANDARD | SURFACE | | GYP. BD. | CROUSE-HINDS | VMVH2G-250SP-RD70 | 277 |
| R | 2 | 50 | -SELF CONTAINED TWIN HEAD BATTERY LIGHT | BLACK | SURFACE WALL | | | DUAL-LITE | RS-87-2-VC RSH-6B-277 | 277 |
| S | 12 | 150R/FL | BORDER LIGHT | STD. | PIPE CLAMP | | | DECOR | LE-150-6-4 CC-TLG | 120 |
| T | 1 | 500EGE | ELLIPSOIDAL | STD. | PIPE CLAMP | | | DECOR | LEQG09-TLG | 120 |
| U | 1 | 500BLT | FRESNEL SPOTLIGHT | STD. | PIPE CLAMP | | | DECOR | FT6-TLG | 120 |
| V | 1 | 500EHD | ELLIPSOIDAL | STD. | PIPE CLAMP | | | DECOR | LQ6A-35TLG | 120 |
| W | 1 | 500PAR56/1F | SCOOP LIGHT | STD. | PIPE CLAMP | | | DECOR | S14-TLG | 120 |
| X | 1 | F8T5/CW | DOUBLE FACE EXIT W/ARROWS AS SHOWN ON PLANS | WHITE ON GREEN | RECESSED | 3.75 | GRID "T" | PRESCOLITE | EMT-9-LA | 277 |
| X1 | 1 | F8T5/CW | SINGLE FACE EXIT W/ARROWS AS SHOWN ON PLANS | WHITE ON GREEN | SURFACE BACK MT | | | PRESCOLITE | IES-9 | 277 |
| Y | 1 | F8T5/CW | NITE- LIGHT | STD. | RECESSED | 4" | GRID "T" | MCPHILBEN | 35-24AF | 277 |

NOTES:
1. TYPE "F", "F1", and "F2" FIXTURES SHALL BE MOUNTED SO THAT BOTTOM OF UNIT IS FLUSH WITH BOTTOM OF JOIST.
2. TYPE "F" FIXUTRE SHALL CONTAIN A DUAL LIGHTING SYSTEM WITH ONE 400W M.H. LAMP AT 277 VOLTS AND ONE 150 W QUARTZ LAMP SEPARATELY WIRED, EXTERNALLY DIMMER CONTROLLED FROM A 120V POWER SOURCE.
3. TYPE "F2" FIXTURE CONTAINS A DUAL LIGHTING SYSTEM WITH ONE 400W H.D. LAMP AND ONE AUXILIARY 150W QUARTZ LAMP CONTOLLED WITHIN THE SAME SYSTEM VOLTAGE OF 277.

## Fire Alarm Symbols

- Door Closer
- Thermal Detector
- Ionized Detector
- Photo-Electric Smoke Detector
- Horn
- Chime
- FAP — Fire Alarm Panel
- Tamper Switch for Open Stem & Yoke
- Duct Detector
- FS — Flow Switch
- ANN — Remote Annunciator
- BAT — Standby Battery Cabinet
- End of Line Diode
- Fire Fighters Phone Jack
- Horn and Light
- End of Line Resister
- Breakglass Station

## Legend

| Symbol | Description |
|---|---|
| | Lighting Panel |
| | Power Panel |
| | Main Distribution Center |
| | Telephone Terminal |
| | Circuit Run; underground, floor |
| | Circuit Run; in walls and ceilings |
| | Circuit Run; exposed |
| | Home Run; arrows are no. of circuits |
| LO | Ceiling Outlet; letter gives fixt. type |
| HO | Wall Outlet; letter gives fixt. type |
| | Incandescent Fixture; recessed |
| | Fluorescent Fixture; surface |
| | Fluorescent Fixture; recessed |
| | Fluorescent Strip light |
| | Spotlight |
| | Porcelain Lampholder; Bryant 5228 with 150A lamp |
| | Exit Light |
| | Duplex Receptacle; wall |
| WP | Duplex Receptacle; weatherproof |
| SC | Duplex Receptacle; above counter |
| | Duplex Receptacle; one-half switched |
| | Double Duplex Receptacle; wall |
| | Receptacle Outlet; floor |
| | Junction Box; ceiling |
| H | Junction Box; wall |
| | Clock Outlet |
| S | Sign Outlet |
| | Telephone Outlet; wall |
| | Telephone Outlet; floor |
| H | House Phone |
| P | Pay Telephone |
| T | T.V. Outlet |
| | P.A. Speaker Outlet |
| | Intercom Outlet |
| | Volume Control |
| $S_0$ | Single Pole Switch; subscript indicates switching |
| $S_2$ | Double Pole Switch |
| $S_3$ | Three Way Switch |
| $S_{TO}$ | Thermal Overload Switch |
| $S_P$ | Switch & Pilot Light |
| $S_K$ | Key Operated Switch |
| $S_V$ | Low Voltage Switch |
| $S_{CR}$ | Combination Switch & Receptacle Outlet |
| T | Time Switch, type as noted |
| | Pushbutton Station |
| A | Amplifier |
| | Surface Raceway, type as noted |
| M | Meter |
| | Motor Outlet & Connection |
| | Fused Safety Switch |
| | Magnetic Starter or Contactor |
| | Fused Disconnect Sw.; diagrammatic |
| | Circuit Breaker; diagrammatic |
| | Electrical Service Entrance (Overhead |
| | Telephone Service Entrance (Overhead |
| 1 | Indicates Detail Notes |
| E | Indicates Mechanical Equipment |
| K | Indicates Kitchen Equipment |
| D | Dimmer, as noted |
| | Thermostat |
| | Conduit up |
| | Conduit down |
| | Hood Outlet and Connection |
| | Disposer |
| | Special Purpose Outlet; noted |
| | Items shaded indicate being on emergency circuit |
| LV | Low Voltage Control Wiring |
| P | Photo-Electric Cell |
| | Tele-Power Pole |
| | Flexible Wiring System Receptacle on Fixture |
| | Flexible Wiring Distribution J-Box No. Indicates Quantity of Circuits |
| | Flexible Wiring System Switch Leg |
| | Flexible Wiring to Hard Wiring J-Box |
| GFI | Outlet With Ground Fault Interrupter |
| | Combination Starter / Disconnect as noted |

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SITE PLAN

JOB NO. 7711/8711
DRAWN ESAKR
CHECKED PLW
DATE MAY 8, 1980
REVISED

DRAWING NUMBER

E-1

OF 9 DRAWINGS

## FEEDER SCHEDULE

1. PRIMARY BY POWER CO.
2. 4[(4#350 MCM,CU) 3½"C.]
3. (1#3/0 CU GND) ¾"C.
4. (4#10 CU+1#10 CU, GND) ¾"C.
5. (3#12 CU+1#12 CU, GND) ½"C.
6. (3#8 CU+1#10 CU, GND) 1"C.
7. (4#3/0 CU+1#6 CU, GND) 2½"C.
8. (3#4 CU+1#6 CU, GND) 1½"C.
9. (4#2/0 CU+1.#6 CU; GND) 2"C.
10. 3#6 CU+1#10 CU, GND) 1"C.
11. (4#2 CU+1#8 CU, GND) 1½"C.
12. (4#6 CU+1#10 CU, GND) 1¼"C.
13. (4#1/0 CU+1#6 CU, GND) 2"C.
14. (1#10 CU GND) ½"C.

## COLORADO ENERGY CONSERVATION STANDARDS, ELECTRICAL

509.1 POWER FACTOR

| | | |
|---|---|---|
| LIGHTING | 106 KVA | 99 KW |
| RECEPTACLES | 83 KVA | 83 KW |
| MOTORS | 27 KVA | 20 KW |
| ELEC. HEAT | 315 KVA | 315 KW |
| TOTAL | 531 KVA | 525 KW |

POWER FACTOR = 99.0%

509.2 SERVICE VOLTAGE

THE SERVICE VOLTAGE OF 120/208V, 3Ø, 4W SYSTEM HAS BEEN SELECTED TO EFFECT CONSERVATION OF MATERIALS, ACHIEVE AN ECONOMICAL DISTRIBUTION SYSTEM, AND MINIMIZE THE ENERGY LOSS WITHIN THE ELECTRICAL SYSTEM.

509.3 VOLTAGE DROP

THE CONDUCTORS OF BRANCH CIRCUIT, FEEDERS, AND SERVICE ENTRANCE HAVE BEEN SPECIFIED TO LIMIT THE VOLTAGE DROP ON BRANCH CIRCUIT NOT TO EXCEED 3 PERCENT OR A TOTAL 5 PERCENT FROM THE SERVICE ENTRANCE TO THE FURTHEST OUTLET DURING STEADY STATE DESIGN AND LOAD CALCULATIONS.

509.4 LIGHTING SWITCHING

ALL LIGHTING CIRCUITS FOR NORMALLY OCCUPIED SPACES HAVE SWITCHING WHICH PERMITS THE REDUCTION OF LIGHTING IN THESE AREAS TO LOWER LEVELS.

510.0 LIGHTING POWER BUDGET

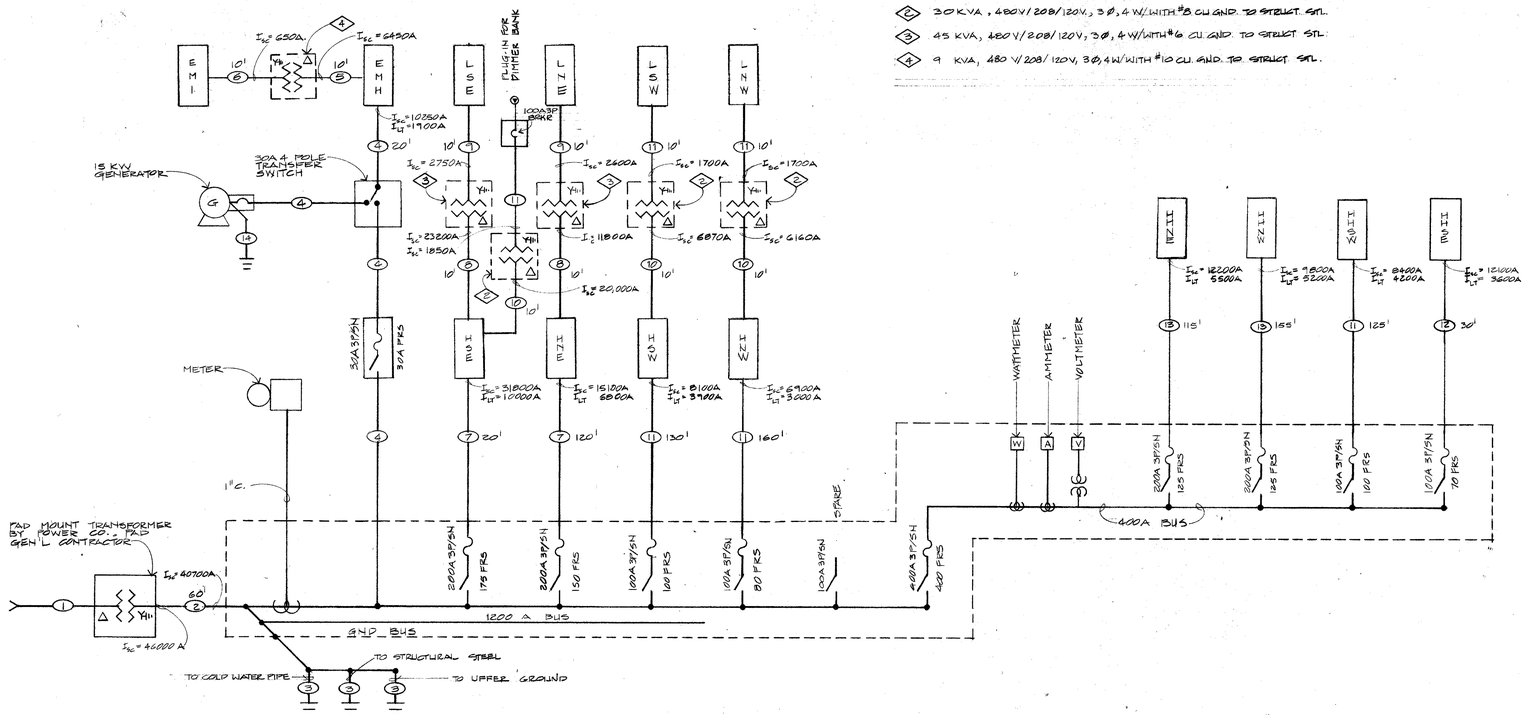
THE LIGHTING POWER BUDGET CALCULATIONS HAVE BEEN MADE IN ACCORDANCE WITH ITEMS 1 THROUGH 5 AND ASSOCIATED TABLES 'A, B AND C.

A COMPARISON OF THE BUDGET WATTS AND THE DESIGN WATTS TO ASCERTAIN COMPLIANCE WITH STANDARDS.

LIGHTING BUDGET 148.5 KW
LIGHTING DESIGN 99.0 KW

## TRANSFORMER SCHEDULE

1. 15 KVA, 480 V/208/120 V, 3Ø, 4 W/WITH #10 CU. GND. TO STRUCT. STL.
2. 30 KVA, 480 V/208/120 V, 3Ø, 4 W/WITH #8 CU. GND. TO STRUCT. STL.
3. 45 KVA, 480 V/208/120 V, 3Ø, 4 W/WITH #6 CU. GND. TO STRUCT. STL.
4. 9 KVA, 480 V/208/120 V, 3Ø, 4 W/WITH #10 CU. GND. TO STRUCT. STL.




## ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE

PANEL EM SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| PANEL EM1 | 0 | 9.00 | 15A3P | 1 | | 2 | 20A1P | 1.37 | 0 | LTG |
| WIRE SIZE | 12 | / | | 3 | | 4 | 20A1P | 1.76 | 0 | LTG |
| WIRE SIZE | 12 | / | | 5 | | 6 | 20A1P | 1.11 | 0 | LTG |
| SPARE | | | 20A1P | 7 | | 8 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 9 | | 10 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 11 | | 12 | 20A1P | | | SPARE |
| SPACE | | | | 13 | | 14 | | | | SPACE |
| SPACE | | | | 15 | | 16 | | | | SPACE |
| SPACE | | | | 17 | | 18 | | | | SPACE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | | |
|---|---|---|---|---|---|---|---|
| LOAD (KVA) | 4.37 | 4.76 | 4.11 | 13.25 | A/B BAL | 8.8% | PH A 16.AMPS. |
| LOAD (KW) | 4.06 | 4.52 | 3.89 | 12.46 | A/C BAL | 6.4% | PH B 17.AMPS. |
| PWR.FACTOR | 0.927 | 0.949 | 0.946 | 0.941 | B/C BAL | 15.8% | PH C 15.AMPS. |

| | LIGHTNG | XFMR | TOTAL |
|---|---|---|---|
| KVA | 5.3 | 9.0 | 14.3 |
| KW | 4.3 | 9.0 | 13.3 |
| P.F. | 0.816 | 1.000 | 0.932 |

MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC

PANEL EM1 SCHEDULE

SERVICE: 208/120V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| FIRE ALARM | 0 | 0.50 | 20A1P | 1 | | 2 | 20A1P | | | SPARE |
| FIRE ALARM | 0 | 0.50 | 20A1P | 3 | | 4 | 20A1P | | | SPARE |
| INTERCOMM | 0 | 1.50 | 20A1P | 5 | | 6 | 20A1P | | | SPARE |
| CLOCK SYS | 0 | 1.00 | 20A1P | 7 | | 8 | 20A1P | | | SPARE |
| TV SYS | 0 | 1.00 | 20A1P | 9 | | 10 | 20A1P | | | SPARE |
| TELEPHONE | | | | 11 | | 12 | | | | SPACE |
| SPACE | | | | 13 | | 14 | | | | SPACE |
| SPACE | | | | 15 | | 16 | | | | SPACE |
| SPACE | | | | 17 | | 18 | | | | SPACE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | | |
|---|---|---|---|---|---|---|---|
| LOAD (KVA) | 1.50 | 1.50 | 1.50 | 4.50 | A/B BAL | 0.0% | PH A 13.AMPS. |
| LOAD (KW) | 1.50 | 1.50 | 1.50 | 4.50 | A/C BAL | 0.0% | PH B 13.AMPS. |
| PWR.FACTOR | 1.000 | 1.000 | 1.000 | 1.000 | B/C BAL | 0.0% | PH C 13.AMPS. |

| | SPC RCP | TOTAL |
|---|---|---|
| KVA | 4.5 | 4.5 |
| KW | 4.5 | 4.5 |
| P.F. | 1.000 | 1.000 |

MAIN BREAKER: 60 BUS AMPACITY: 100 PANEL MOUNTING: SFC

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
ELECTRICAL SINGLE LINE DIAGRAM

JOB NO. 7911.00
DRAWN W
CHECKED PLW
DATE MAY 81'80
REVISED

DRAWING NUMBER
E-2
OF 9 DRAWINGS

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

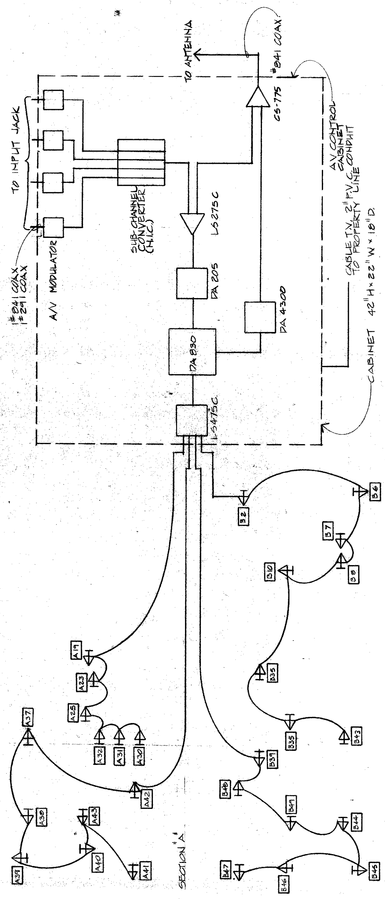
TITLE: FIRE ALARM & INTERCOM LINE DIAGRAM
CLOCK & PROGRAM LINE DIAGRAM
T.V. SYSTEM LINE DIAGRAM

JOB NO. 7116.02
DRAWN DBP
CHECKED FWH
DATE 04/13/82
REVISED

DRAWING NUMBER E-3
OF DRAWINGS

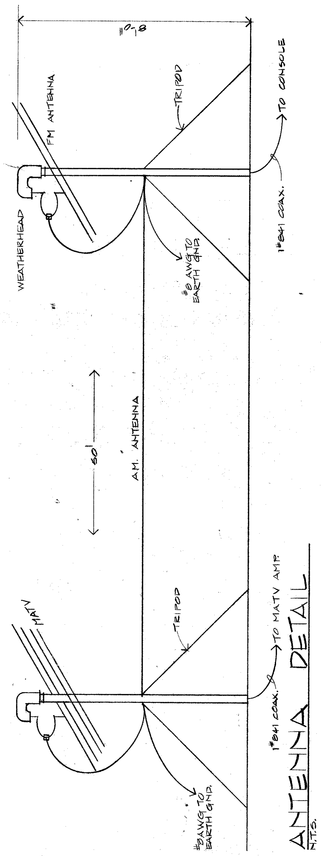
# T.V. SYSTEM SINGLE LINE DIAGRAM

N.T.S.



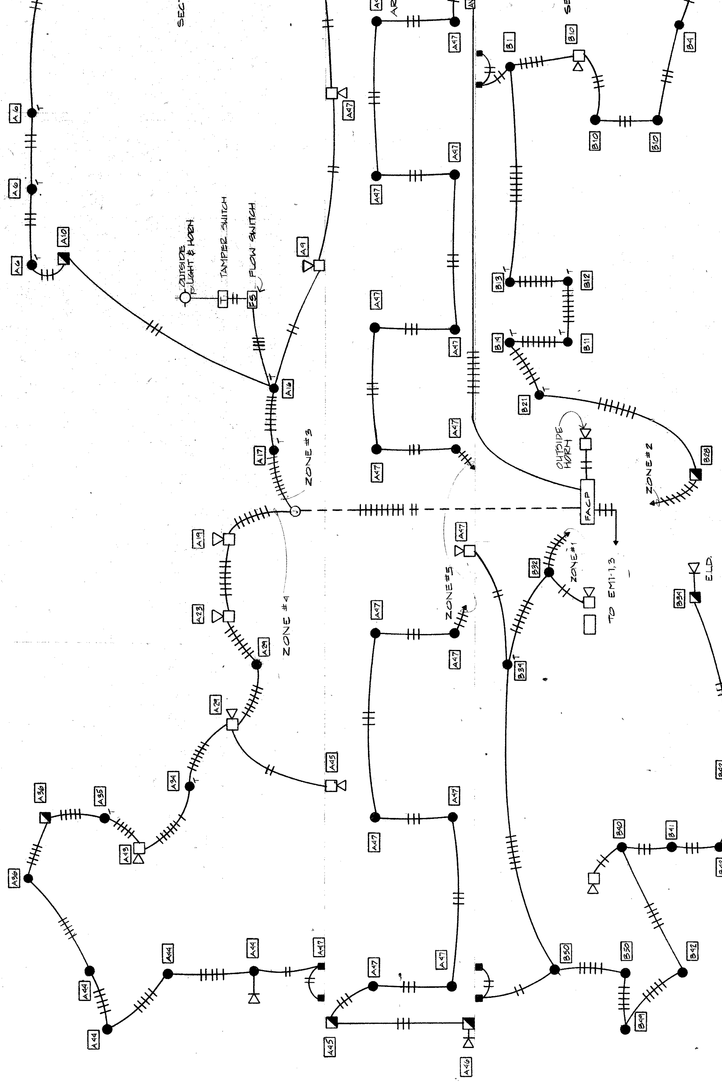

# ANTENNA DETAIL

N.T.S.



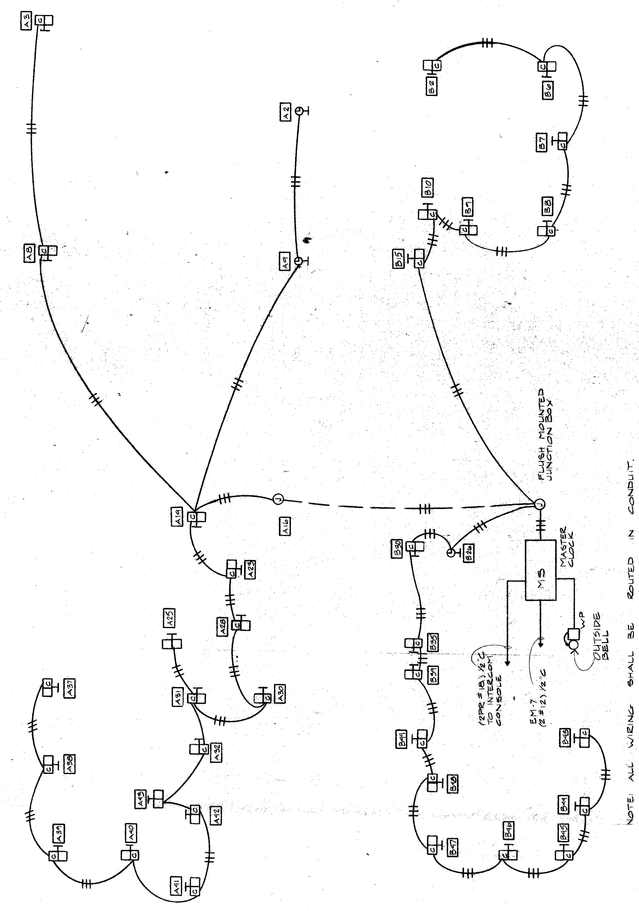

# FIRE ALARM SINGLE LINE DIAGRAM

NOTE: ALL WIRING SHALL BE ROUTED IN CONDUIT
NOT TO SCALE
+ EACH WIRE TICK INDICATES ONE # 14 AWG CU. CONDUCTOR




# CLOCK AND PROGRAM SINGLE LINE DIAGRAM

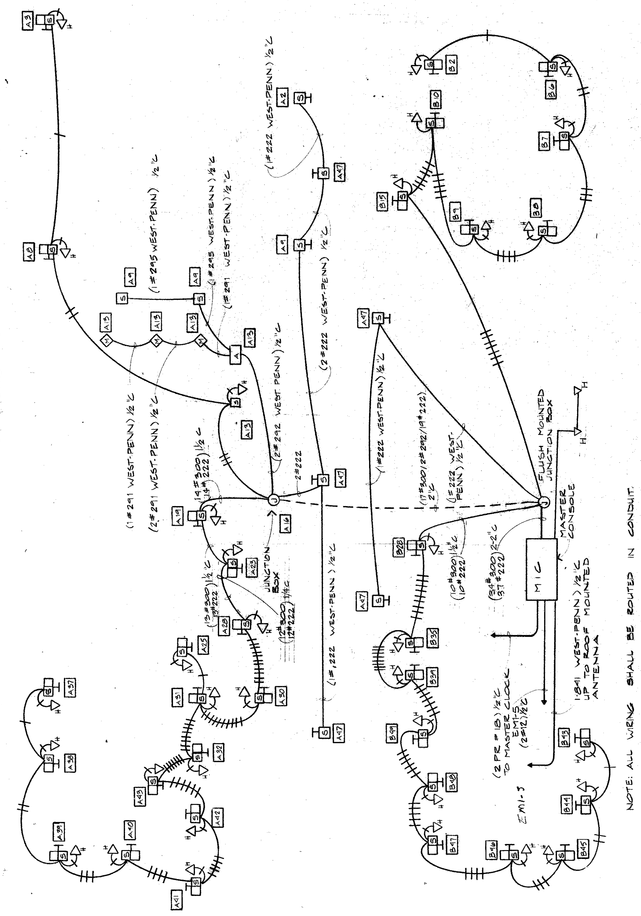
EACH WIRE TICK INDICATES ONE # 14 AWG CU. CONDUCTOR




NOTE: ALL WIRING SHALL BE ROUTED IN CONDUIT.

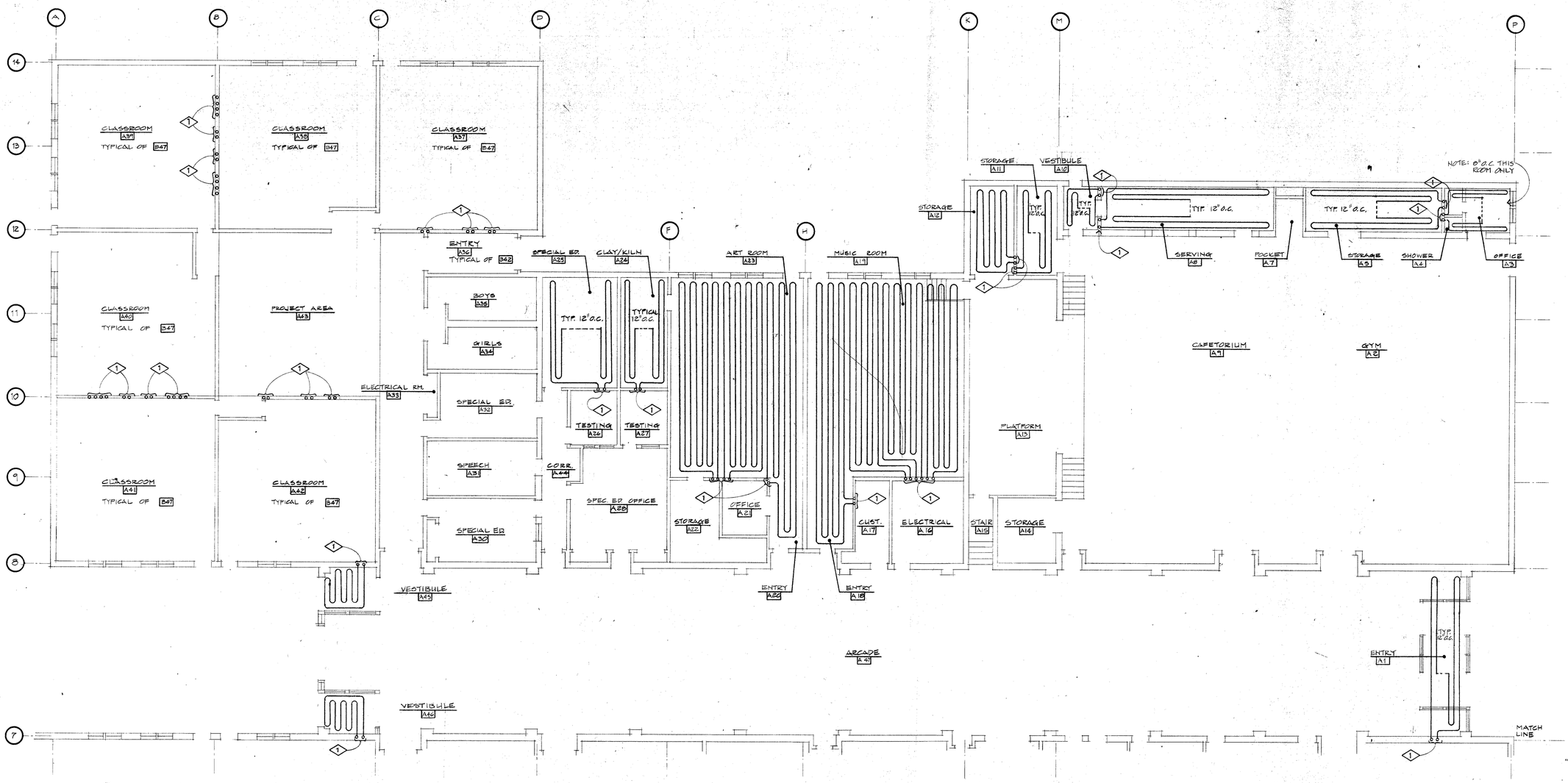
# INTERCOM SINGLE LINE DIAGRAM

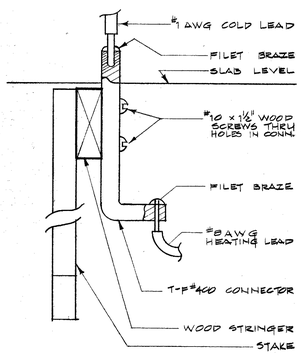
+ EACH WIRE TICK INDICATES ONE WEST PENN # 300 CABLE (#6 & #22 SHIELDED)
PLUS ONE WEST PENN #222 CABLE (2/C #22 TWISTED UNLESS OTHERWISE INDICATED



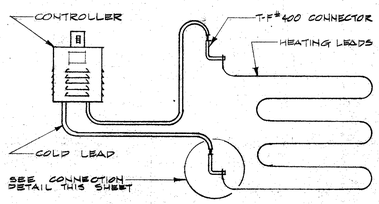

| WEST-PENN #300 CABLE | | |
|---|---|---|
| 1-3 | CABLES | 2 1/2"C |
| 4-6 | CABLES | 2 3/4"C |
| 7-11 | CABLES | 2 1"C |
| 12-18 | CABLES | 2 1 1/4"C |
| 19-27 | CABLES | 2 1 1/2"C |

| WEST-PENN #222 CABLE | | |
|---|---|---|
| 1-4 | CABLES IN | 1/2"C |
| 5-7 | CABLES IN | 3/4"C |
| 8-11 | CABLES IN | 1"C |
| 12-21 | CABLES IN | 1 1/4"C |
| 22-28 | CABLES IN | 1 1/2"C |

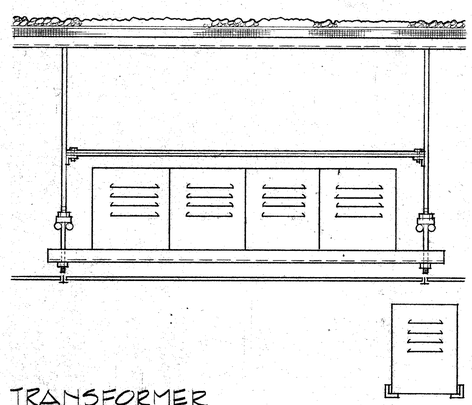



## TYPICAL CABLE CONNECTION DETAIL
N.T.S.




## TYPICAL HEATING CABLE SCHEMATIC
N.T.S.



## TRANSFORMER MOUNTING DETAIL
N.T.S.

REFENCE ARCHITECTURAL DRAWINGS FOR COMPLETE DETAILED INFORMATION.

## SECTION "A" HEATING FLOOR PLAN
SCALE: 1/8" = 1'-0"

## DETAIL NOTES THIS SHEET ONLY

1. EXTEND COLD LEADS UP TO TRANSFORMERS ABOVE CEILING. REFERENCE LIGHTING PLAN SHEET E-6 FOR TRANSFORMER LOCATION.

PANEL HHNE SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| TRANSF | 0 | 3.00 | 15A1P | 1 | | 2 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 3 | | 4 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 5 | | 6 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 7 | | 8 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 9 | | 10 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 11 | | 12 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 13 | | 14 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 15 | | 16 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 17 | | 18 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 19 | | 20 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 21 | | 22 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 23 | | 24 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 25 | | 26 | | | | SPACE |
| SPACE | | | | 27 | | 28 | | | | SPACE |
| SPACE | | | | 29 | | 30 | 20A1P | 0.00 | 0 | SAPCE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 27.00 | 24.00 | 24.00 | 75.00 | A/B BAL 12.5% | PH A 97.AMPS. |
| LOAD (KW) | 27.00 | 24.00 | 24.00 | 75.00 | A/C BAL 12.5% | PH B 87.AMPS. |
| PWR.FACTOR | 1.000 | 1.000 | 1.000 | 1.000 | B/C BAL 0.0% | PH C 87.AMPS. |

| | KFMR | TOTAL |
|---|---|---|
| KVA | 75.0 | 75.0 |
| KW | 75.0 | 75.0 |
| P.F. | 1.000 | 1.000 |

MAIN BREAKER: MLO BUS AMPACITY: 225 PANEL MOUNTING: SFC

PANEL HHSE SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| TRANSF | 0 | 3.00 | 15A1P | 1 | | 2 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 3 | | 4 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 5 | | 6 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 7 | | 8 | | | | SPACE |
| TRANSF | 0 | 3.00 | 15A1P | 9 | | 10 | | | | SPACE |
| TRANSF | 0 | 3.00 | 15A1P | 11 | | 12 | | | | SPACE |
| TRANSF | 0 | 3.00 | 15A1P | 13 | | 14 | | | | SPACE |
| SPACE | | | | 15 | | 16 | | | | SPACE |
| SPACE | | | | 17 | | 18 | | | | SPACE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 12.00 | 9.00 | 9.00 | 30.00 | A/B BAL 33.3% | PH A 43.AMPS. |
| LOAD (KW) | 12.00 | 9.00 | 9.00 | 30.00 | A/C BAL 33.3% | PH B 32.AMPS. |
| PWR.FACTOR | 1.000 | 1.000 | 1.000 | 1.000 | B/C BAL 0.0% | PH C 32.AMPS. |

| | KFMR | TOTAL |
|---|---|---|
| KVA | 30.0 | 30.0 |
| KW | 30.0 | 30.0 |
| P.F. | 1.000 | 1.000 |

MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

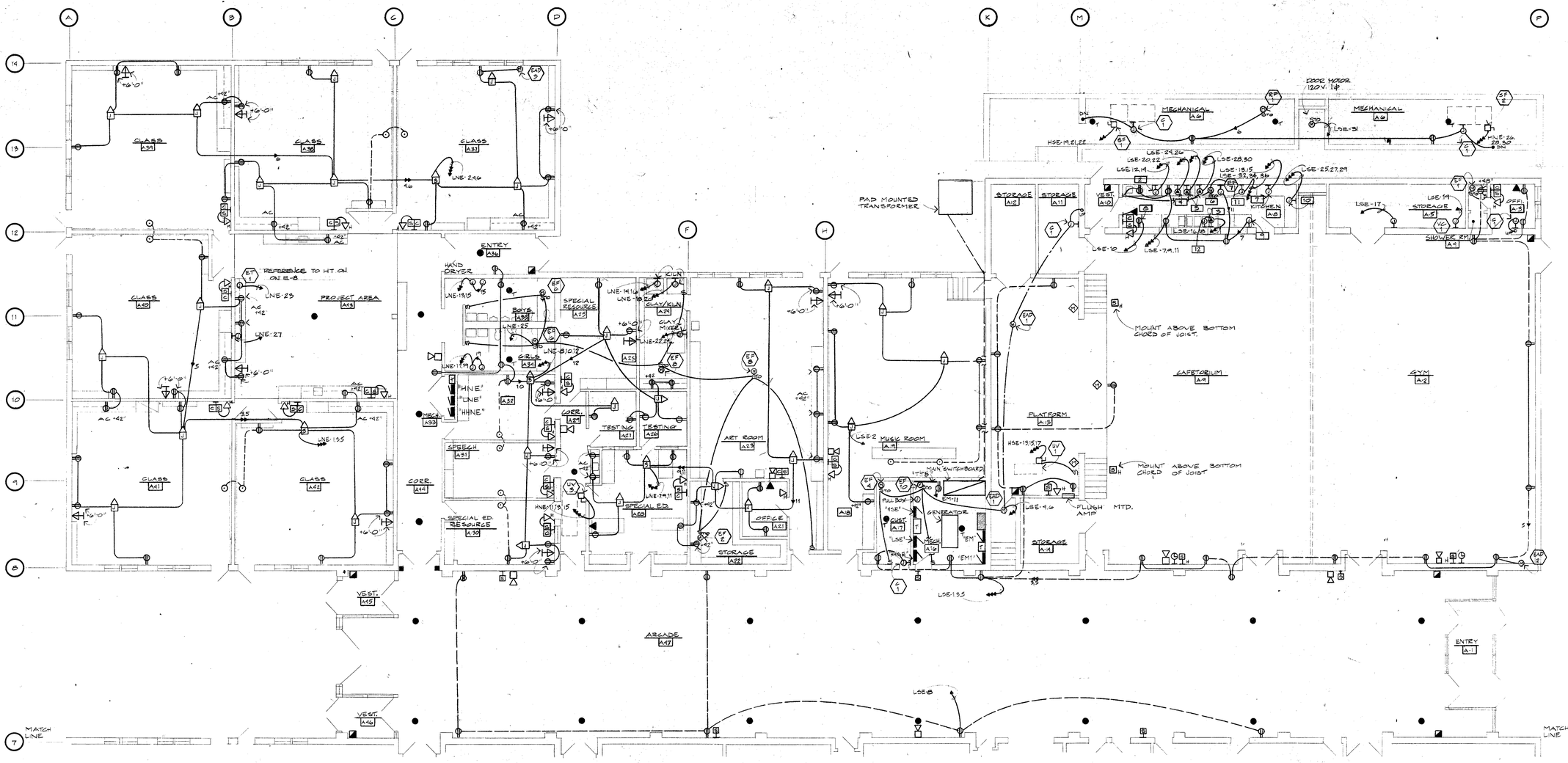
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SECTION "A" HEATING FLOOR PLAN

JOB NO. 80070.00
DRAWN KBP
CHECKED PLM
DATE MAY 8, 1980
REVISED

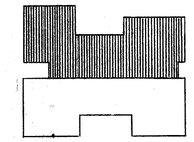
DRAWING NUMBER
E-4

OF 9 DRAWINGS




# SECTION "A" POWER PLAN

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



## Kitchen Equipment Schedule

| | Description | Characteristics hp | KW | Volts | ϕ | Supply Data Feeder Wire Size | Cond | Breaker | Installation Mounting Height AFF Junc Box | Flush Outlet | Electrical Final Connection to Equip. Mtd Junc Box | Contractor to Make Connection to Equip. Mtd Outlet | Outlet by E.C. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | —— | | | | | | | | | | | | | |
| 2 | HOT PLATE | — | 5.2 | 208 | 1 | 2#8+1#10G | 3/4 | 40/2 | +30" | —— | —— | ● | ● | DISCONNECT BY E.C. |
| 3 | HOT FOOD TABLE | — | 3.75 | 208 | 1 | 2#10+1#10G | 3/4 | 30/2 | —— | +16" | —— | ● | ● | |
| 4 | TOASTER | — | 2.8 | 120/208 | 1, 3 | 3#12+1#12G | 3/4 | 20/2 | —— | +48" | —— | —— | ● | |
| 5 | WARMING OVEN (2) | — | 1.5 | 208 | 1 | 2#12+1#12G | 1/2 | 15/2 | —— | +48" | —— | —— | ● | DISCONNECT BY E.C. |
| 6 | REFR./FREEZER | — | 1.5 | 120 | 1 | 2#12 | 1/2 | 20/1 | +66" | —— | —— | —— | ● | DISCONNECT BY E.C. |
| 7 | DISH MACHINE | — | 2.1 | 208 | 1 | 2#12+1#12G | 1/2 | 15/2 | +62" | —— | ● | —— | ● | DISCONNECT BY E.C. |
| 8 | CASH REGISTER | — | .2 | 120 | 1 | 2#12+1#12G | 1/2 | 20/1 | —— | +30" | —— | —— | ● | |
| 9 | MILK REFR. | 1/4 | — | 120 | 1 | 2#12 | 1/2 | 20/1 | —— | +30" | —— | —— | ● | |
| 10 | DISPOSER | 2 | — | 208 | 3 | 3#12+1#12 | 3/4 | 15/3 | +12" | —— | —— | ● | ● | DISCONNECT BY E.C. |
| 11 | BOOSTER HEATER | | 6.0 | 208 | 3 | 3#12+1#12G | 3/4 | 30/3 | +12" | —— | —— | ● | ● | DISCONNECT BY E.C. |
| 12 | HEAT LAMP | | .8 | 208 | 1 | 2#12+1#12G | 1/2 | 15/2 | —— | +12 | —— | ● | | |

PANEL LNE SCHEDULE

SERVICE: 208/120V (3PH) 4W

| EQUIPMENT | ϕ | RECPT | LOAD KVA | CIRC BK AMP | P | CIR # | BUS | CIR # | CIRC BK AMP | P | LOAD KVA | ϕ RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPT | | 8 | 1.44 | 20A1P | | 1 | . | 2 | 20A1P | | 0.90 | 5 | RECEPT |
| RECEPT | | 8 | 1.44 | 20A1P | | 3 | . | 4 | 20A1P | | 1.44 | 8 | RECEPT |
| RECEPT | | 7 | 1.26 | 20A1P | | 5 | . | 6 | 20A1P | | 0.90 | 5 | RECEPT |
| RECEPT | | 5 | 0.90 | 20A1P | | 7 | . | 8 | 20A1P | | 1.26 | 7 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | | 9 | . | 10 | 20A1P | | 1.44 | 8 | RECEPT |
| RECEPT | | 5 | 0.90 | 20A1P | | 11 | . | 12 | 20A1P | | 1.44 | 8 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | | 13 | . | 14 | 60A2P | | 9.80 | 0 | KILN |
| HD. DRYER | | 0 | 1.38 | 20A1P | | 15 | . | 16 | / | | ϕ & WIRE SIZE | | |
| HD. DRYER | | 0 | 1.38 | 20A1P | | 17 | . | 18 | 60A2P | | 9.80 | 0 | KILN |
| HD. DRYER | | 0 | 1.38 | 20A1P | | 19 | . | 20 | / | | ϕ & WIRE SIZE | | |
| SPARE | | | | 20A1P | | 21 | . | 22 | 15A2P | | 1.44 | 0 | MIXER |
| HT. TAPE | | 0 | 1.50 | 20A1P | | 23 | . | 24 | / | | ϕ 12 WIRE SIZE | | |
| EXH. FANS | | 0 | 1.08 | 15A1P | | 25 | . | 26 | 20A1P | | | | SPARE |
| VACUUM | | 0 | 1.08 | 20A1P | | 27 | . | 28 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 29 | . | 30 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 31 | . | 32 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 33 | . | 34 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 35 | . | 36 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 37 | . | 38 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 39 | . | 40 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 41 | . | 42 | 20A1P | | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | |
|---|---|---|---|---|---|
| LOAD (KVA) | 18.14 | 13.69 | 13.11 | 44.94 | A/B BAL 32.6% PH A 151.AMPS. |
| LOAD (KW) | 17.73 | 12.92 | 12.80 | 43.45 | A/C BAL 38.4% PH B 114.AMPS. |
| PWR.FACTOR | 0.979 | 0.944 | 0.976 | 0.967 | B/C BAL 4.4% PH C 109.AMPS. |

| | MOTORS | STD RCP | HEATER | SPC RCP | TOTAL |
|---|---|---|---|---|---|
| KVA | 4.3 | 12.2 | 7.0 | 19.6 | 43.2 |
| KW | 2.7 | 12.2 | 7.0 | 19.6 | 41.5 |
| P.F. | 0.619 | 1.000 | 1.000 | 1.000 | 0.962 |

MAIN BREAKER: 225 BUS AMPACITY: 225 PANEL MOUNTING: SFC

PANEL LSE SCHEDULE

SERVICE: 208/120V (3PH) 4W

| EQUIPMENT | ϕ | RECPT | LOAD KVA | CIRC BK AMP | P | CIR # | BUS | CIR # | CIRC BK AMP | P | LOAD KVA | ϕ RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPT | | 9 | 1.62 | 20A1P | | 1 | . | 2 | 20A1P | | 1.62 | 9 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | | 3 | . | 4 | 20A1P | | 1.50 | 0 | FANSE CONT |
| RECEPT | | 6 | 1.08 | 20A1P | | 5 | . | 6 | 15A1P | | 0.70 | 0 | RECIR. PUM |
| RECEPT | | 6 | 1.08 | 20A1P | | 7 | . | 8 | 20A1P | | 1.08 | 6 | RECEPT |
| FREEZER | | 0 | 1.20 | 20A1P | | 9 | . | 10 | 20A1P | | 0.50 | 0 | CASH REG |
| MILK MACH | | 0 | 0.70 | 15A1P | | 11 | . | 12 | 40A2P | | 5.20 | 0 | HOT PLATE |
| DISH MACH | | 0 | 1.87 | 15A2P | | 13 | . | 14 | / | | ϕ & WIRE SIZE | | |
| WIRE SIZE | ϕ | 12 | / | | | 15 | . | 16 | 30A2P | | 4.55 | 0 | HOT FOOD |
| VACUUM | | 0 | 1.18 | 20A1P | | 17 | . | 18 | / | | ϕ 10 WIRE SIZE | | |
| VACUUM | | 0 | 1.18 | 20A1P | | 19 | . | 20 | 20A2P | | 2.80 | 0 | TOASTER |
| SPARE | | | | 20A1P | | 21 | . | 22 | / | | ϕ 12 WIRE SIZE | | |
| SPARE | | | | 20A1P | | 23 | . | 24 | 15A2P | | 1.50 | 0 | WMG OVEN |
| DISPOSER | | 0 | 2.70 | 15A3P | | 25 | . | 26 | / | | ϕ 12 WIRE SIZE | | |
| WIRE SIZE | ϕ | 12 | / | | | 27 | . | 28 | 15A2P | | 1.50 | 0 | WMG OVEN |
| WIRE SIZE | ϕ | 12 | / | | | 29 | . | 30 | / | | ϕ 12 WIRE SIZE | | |
| CURTAIN MT | | 0 | 1.92 | 30A1P | | 31 | . | 32 | 30A3P | | 6.00 | 0 | BOOSTER HT |
| SPARE | | | | 20A1P | | 33 | . | 34 | / | | ϕ 10 WIRE SIZE | | |
| SPARE | | | | 20A1P | | 35 | . | 36 | / | | ϕ 10 WIRE SIZE | | |
| SPARE | | | | 20A1P | | 37 | . | 38 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 39 | . | 40 | 20A1P | | | | SPARE |
| SPARE | | | | 20A1P | | 41 | . | 42 | 20A1P | | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | |
|---|---|---|---|---|---|
| LOAD (KVA) | 17.08 | 12.54 | 12.92 | 42.55 | A/B BAL 36.2% PH A 142.AMPS. |
| LOAD (KW) | 15.46 | 11.44 | 11.85 | 38.95 | A/C BAL 32.2% PH B 105.AMPS. |
| PWR.FACTOR | 0.905 | 0.928 | 0.917 | 0.915 | B/C BAL 3.0% PH C 108.AMPS. |

| | MOTORS | STD RCP | HEATER | SPC RCP | OTHR LD | TOTAL |
|---|---|---|---|---|---|---|
| KVA | 12.1 | 7.6 | 21.6 | 0.5 | 1.5 | 43.2 |
| KW | 8.4 | 7.6 | 21.6 | 0.5 | 1.5 | 39.6 |
| P.F. | 0.697 | 1.000 | 1.000 | 1.000 | 1.000 | 0.915 |

MAIN BREAKER: 225 BUS AMPACITY: 225 PANEL MOUNTING: SFC

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

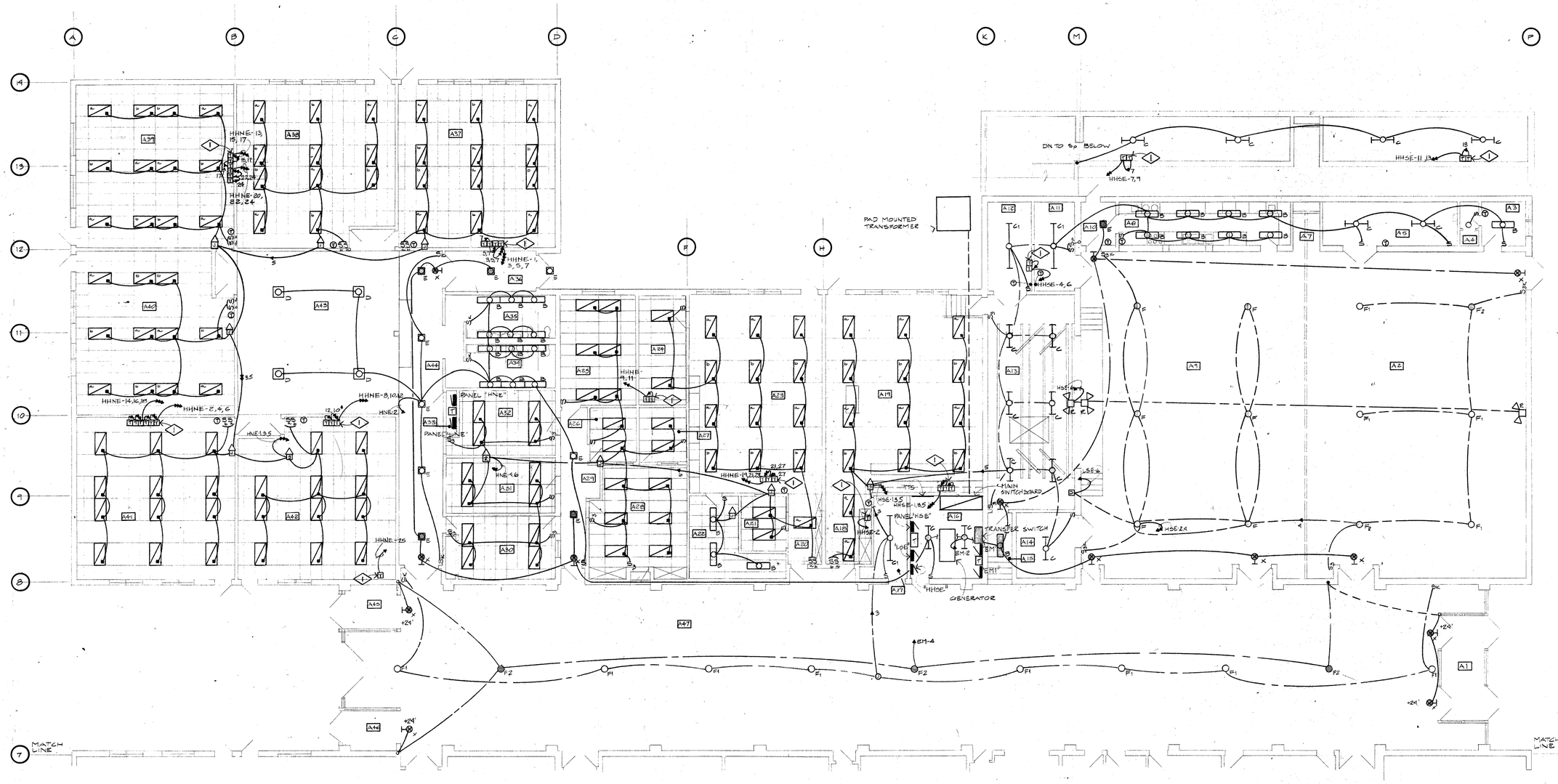
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SECTION "A" POWER PLAN KITCHEN EQUIPMENT SCHEDULE

JOB NO. 7112.00
DRAWN KEB
CHECKED PLM
DATE MAY 8 1990
REVISED

DRAWING NUMBER
E-5

OF 9 DRAWINGS




PANEL HNE, SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD # KVA | RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| LTG | 0 | 3.54 | 20A1P | 1 | | 2 | 20A1P | 3.56 | 0 | LTG |
| LTG | 0 | 3.54 | 20A1P | 3 | | 4 | 20A1P | 4.31 | 0 | LTG |
| LTG | 0 | 3.54 | 20A1P | 5 | | 6 | 20A1P | 2.91 | 0 | LTG |
| SPARE | | | 20A1P | 7 | | 8 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 9 | | 10 | 20A1P | | | SPARE |
| UNITVENT | 0 | 9.00 | 15A3P | 11 | | 12 | 70A3P | 45.00 | 0 | PANEL LNE |
| WIRE SIZE # | 12 | / | | 13 | | 14 | / | # 4 | WIRE SIZE | |
| WIRE SIZE # | 12 | / | | 15 | | 16 | / | # 4 | WIRE SIZE | |
| SPARE | | | 20A1P | 17 | | 18 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 19 | | 20 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 21 | | 22 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 23 | | 24 | 20A1P | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | | |
|---|---|---|---|---|---|---|---|
| LOAD (KVA) | 25.10 | 25.85 | 24.45 | 75.41 | A/B BAL | 3.0% | PH A 91.AMPS |
| LOAD (KW) | 24.69 | 25.50 | 24.16 | 74.34 | A/C BAL | 2.7% | PH B 93.AMPS |
| PWR.FACTOR | 0.983 | 0.986 | 0.988 | 0.986 | B/C BAL | 5.7% | PH C 88.AMPS |

| | LIGHTNG | HEATER | XFMR | TOTAL |
|---|---|---|---|---|
| KVA | 26.8 | 9.0 | 45.0 | 80.8 |
| KW | 25.4 | 9.0 | 45.0 | 79.4 |
| P.F. | 0.950 | 1.000 | 1.000 | 0.983 |

MAIN BREAKER: MLO BUS AMPACITY: 225 PANEL MOUNTING: SFC

PANEL HSE, SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD # KVA | RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| LTG | 0 | 2.16 | 20A1P | 1 | | 2 | 20A1P | 3.29 | 0 | LTG |
| LTG | 0 | 3.49 | 20A1P | 3 | | 4 | 20A1P | 2.99 | 0 | LTG |
| LTG | 0 | 2.55 | 20A1P | 5 | | 6 | 20A1P | 1.00 | 0 | BATT. LTGS |
| SPARE | | | 20A1P | 7 | | 8 | 20A1P | 2.29 | 0 | EXT LTG |
| SPARE | | | 20A1P | 9 | | 10 | 20A1P | 2.70 | 0 | EXT LTG |
| SPARE | | | 20A1P | 11 | | 12 | 20A1P | | | SPARE |
| UNIT VENT | 0 | 4.50 | 15A3P | 13 | | 14 | 15A3P | 3.33 | 0 | SF-2 |
| WIRE SIZE # | 12 | / | | 15 | | 16 | / | # 12 | WIRE SIZE | |
| WIRE SIZE # | 12 | / | | 17 | | 18 | / | # 12 | WIRE SIZE | |
| SF-1 | 0 | 3.33 | 15A3P | 19 | | 20 | 50A3P | 30.00 | 0 | DIMMER BAN |
| WIRE SIZE # | 12 | / | | 21 | | 22 | / | # 6 | WIRE SIZE | |
| WIRE SIZE # | 12 | / | | 23 | | 24 | / | # 6 | WIRE SIZE | |
| PANEL "LSE | 0 | 45.00 | 70A3P | 25 | | 26 | 20A1P | | | SPARE |
| WIRE SIZE # | 4 | / | | 27 | | 28 | 20A1P | | | SPARE |
| WIRE SIZE # | 4 | / | | 29 | | 30 | 20A1P | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | | |
|---|---|---|---|---|---|---|---|
| LOAD (KVA) | 36.46 | 37.91 | 32.27 | 106.63 | A/B BAL | 4.0% | PH A 132.AMPS |
| LOAD (KW) | 36.41 | 37.08 | 31.89 | 105.38 | A/C BAL | 13.0% | PH B 137.AMPS |
| PWR.FACTOR | 0.999 | 0.978 | 0.988 | 0.988 | B/C BAL | 17.5% | PH C 116.AMPS |

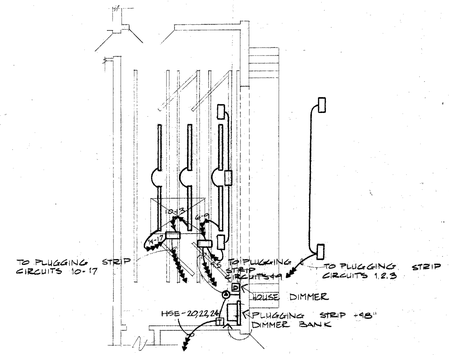
| | LIGHTNG | MOTORS | HEATER | XFMR | OTHR LD | TOTAL |
|---|---|---|---|---|---|---|
| KVA | 24.3 | 7.5 | 4.5 | 75.0 | 1.0 | 112.3 |
| KW | 23.6 | 6.7 | 4.5 | 75.0 | 1.0 | 110.8 |
| P.F. | 0.970 | 0.900 | 1.000 | 1.000 | 1.000 | 0.987 |

MAIN BREAKER: MLO BUS AMPACITY: 225 PANEL MOUNTING: SFC

NOTE: ALL FIXTURES TYPE 'A' UNLESS OTHERWISE NOTED.

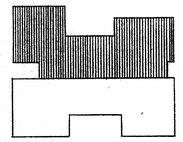
## SECTION "A" LIGHTING PLAN

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




## STAGE LIGHTING PLAN

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



DETAIL NOTES THIS SHEET

1. TRANSFORMERS LOCATED IN CEILING SPACE TYPICAL FOR ELECTRIC HEATING SYSTEM. REFERENCE HEATING FLOOR PLAN SHEET E-4.

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

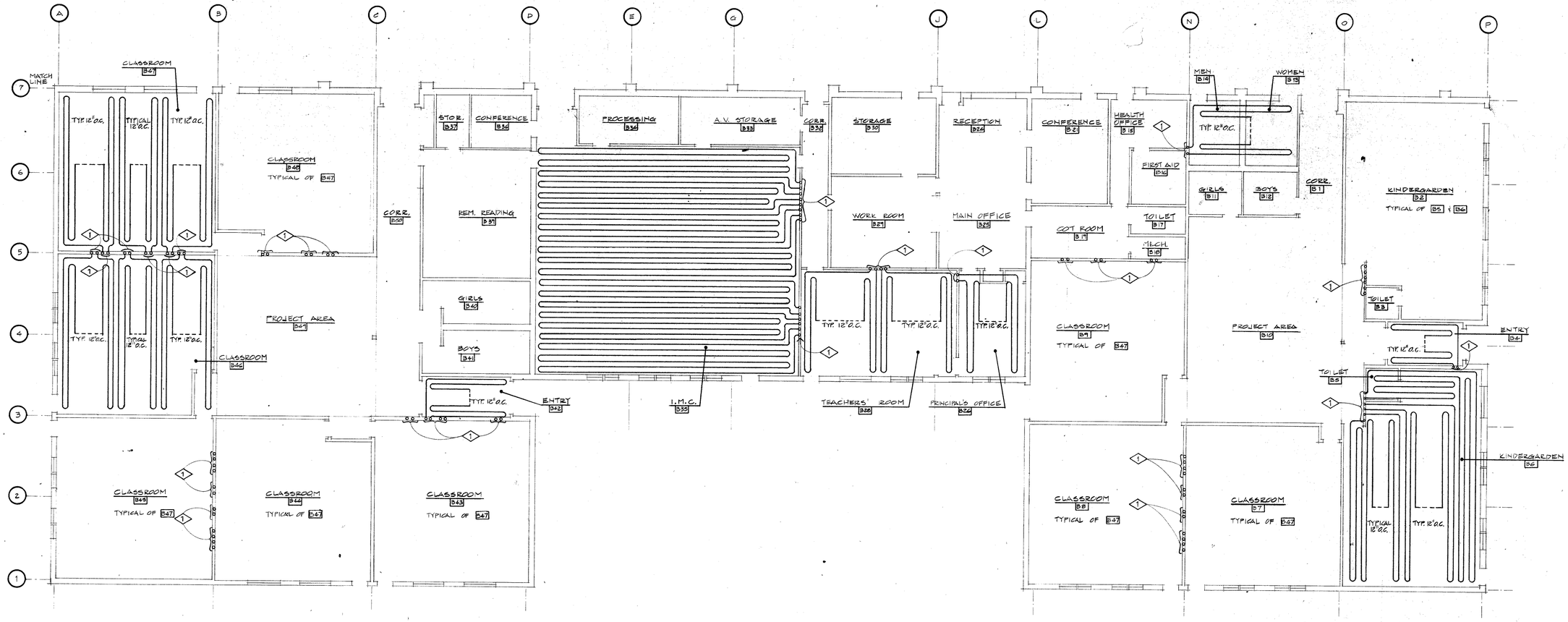
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SECTION A LIGHTING PLAN & STAGE LIGHTING

JOB NO. 7110.00
DRAWN KEB
CHECKED PLW
DATE MAY 8, 1980
REVISED

DRAWING NUMBER
E-6

OF DRAWINGS




PANEL HHNW SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| TRANSF | 0 | 3.00 | 15A1P | 1 | | 2 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 3 | | 4 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 5 | | 6 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 7 | | 8 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 9 | | 10 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 11 | | 12 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 13 | | 14 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 15 | | 16 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 17 | | 18 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 19 | | 20 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 21 | | 22 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 23 | | 24 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 25 | | 26 | 15A1P | 3.00 | 0 | TRANSF |
| SPACE | | | | 27 | | 28 | 15A1P | 3.00 | 0 | TRANSF |
| SPACE | | | | 29 | | 30 | 15A1P | 3.00 | 0 | TRANSF |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 30.00 | 27.00 | 27.00 | 84.00 | A/B BAL | 11.1% PH A 108.AMPS |
| LOAD (KW) | 30.00 | 27.00 | 27.00 | 84.00 | A/C BAL | 11.1% PH B 97.AMPS |
| PWR.FACTOR | 1.000 | 1.000 | 1.000 | 1.000 | B/C BAL | 0.0% PH C 97.AMPS |

| | XFMR | TOTAL |
|---|---|---|
| KVA | 84.0 | 84.0 |
| KW | 84.0 | 84.0 |
| P.F. | 1.000 | 1.000 |

MAIN BREAKER: MLO BUS AMPACITY: 225 PANEL MOUNTING: SFC

PANEL HHSW SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| TRANSF | 0 | 3.00 | 15A1P | 1 | | 2 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 3 | | 4 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 5 | | 6 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 7 | | 8 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 9 | | 10 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 11 | | 12 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 13 | | 14 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 15 | | 16 | 15A1P | 3.00 | 0 | TRANSF |
| TRANSF | 0 | 3.00 | 15A1P | 17 | | 18 | 15A1P | 3.00 | 0 | TRANSF |
| SPACE | | | | 19 | | 20 | 15A1P | 3.00 | 0 | TRANSF |
| SPACE | | | | 21 | | 22 | 15A1P | 3.00 | 0 | TRANSF |
| SPACE | | | | 23 | | 24 | 15A1P | 3.00 | 0 | TRANSF |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 21.00 | 21.00 | 21.00 | 63.00 | A/B BAL | 0.0% PH A 76.AMPS |
| LOAD (KW) | 21.00 | 21.00 | 21.00 | 63.00 | A/C BAL | 0.0% PH B 76.AMPS |
| PWR.FACTOR | 1.000 | 1.000 | 1.000 | 1.000 | B/C BAL | 0.0% PH C 76.AMPS |

| | XFMR | TOTAL |
|---|---|---|
| KVA | 63.0 | 63.0 |
| KW | 63.0 | 63.0 |
| P.F. | 1.000 | 1.000 |

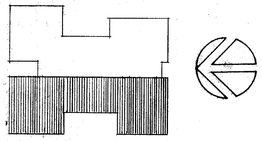
MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC

## SECTION "B" HEATING FLOOR PLAN

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

## DETAIL NOTES THIS SHEET ONLY

<1> EXTEND COLD LEADS UP TO TRANSFORMERS ABOVE CEILING - REFERENCE LIGHTING PLAN SHEET E-9 FOR TRANSFORMER LOCATION.



STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

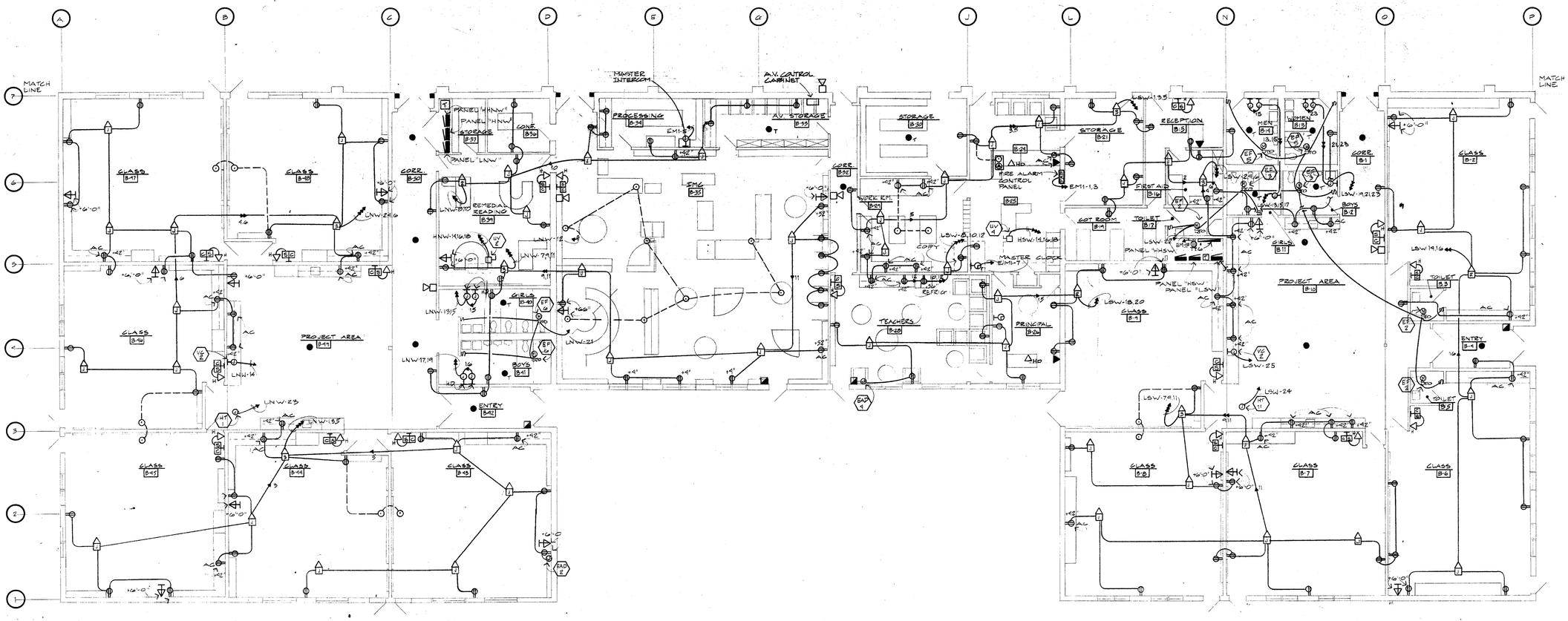
SSE

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Donald D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SECTION "B" HEATING FLOOR PLAN

JOB NO. 80070.00
DRAWN W
CHECKED PLW
DATE MAY 8, 1980
REVISED

DRAWING NUMBER
E-7
9 DRAWINGS

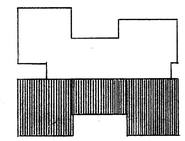



## Mechanical Equipment Schedule

| | Description | Characteristics hp | KW | FLA | Volts | ϕ | Supply Data: Feeder Wire Size | Feeder Cond | Branch Circuit Protection: Breaker | Switch | Fuse | Control | By | Fire Protection: (at heating coil) CFM | Detection: Temp | Smoke | Furn | Install | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EAD 1 | TEMP. CONTROL EX. DAMPER | — | — | .5 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| EAD 2 | TEMP. CONTROL EX. DAMPER | — | — | .5 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| EAD 3 | TEMP. CONTROL EX DAMPER | — | — | .5 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| UV 1 | UNIT VENTALATER | 1/4 | 4.5 | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| UV 2 | UNIT VENTALATER | 1/4 | 4.5 | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| UV 3 | UNIT VENTALATER | 1/3 | 4.0 | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| UV 4 | UNIT VENTALATER | 1/3 | 4.0 | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| SF 1 | SUPPLY FAN | 1 | — | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| SF 2 | SUPPLY FAN | 1 | — | — | 480 | 3 | 3#12+1#12G | 3/4 | 15/3 | — | — | T'STAT | E | — | | | | | |
| VP 1 | VACUUM PUMP CONTROLLER | 1/2 | — | — | 120 | 3 | 3#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| VP 2 | VACUUM PUMP CONTROLLER | 1/2 | — | — | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| VP 3 | VACUUM PUMP CONTROLLER | 1/2 | — | — | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| VP 4 | VACUUM PUMP CONTROLLER | 1/2 | — | — | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| VP 5 | VACUUM PUMP CONTROLLER | 1/2 | — | — | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |
| EF 1 | EXHAUST FAN | 1/150 | — | .22 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | LIGHT SWITCH | E | — | | | | | |
| EF 2 | EXHAUST FAN | 1/150 | — | .64 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | SWITCH | E | — | | | | | |
| EF 3 | EXHAUST FAN | 1/40 | — | .8 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | SWITCH | E | — | | | | | |
| EF 4 | EXHAUST FAN | 1/40 | — | .8 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | SWITCH | E | — | | | | | |
| EF 5 | EXHAUST FAN | 1/15 | — | 2.1 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | TIME SWITCH | | — | | | | | |
| EF 6 | EXHAUST FAN | 1/15 | — | 2.1 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | TIME SWITCH | E | — | | | | | MANUAL OVER-RIDE BY E.C. |
| EF 7 | EXHAUST FAN | | | | | | | | | | | | | | | | | | MANUAL OVER-RIDE BY E.C. |
| EF 8 | EXHAUST FAN | 1/15 | — | 2.1 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | SWITCH | E | — | | | | | |
| EF 9 | EXHAUST FAN | | | | | | | | | | | | | | | | | | |
| EF 10 | EXHAUST FAN | 1/15 | — | 2.1 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | SWITCH | E | — | | | | | |
| C 1 | CONTROL CIRCUIT | — | — | .5 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | | | | | | | | |
| EAD 9 | TEMP. CONTROL EX. DAMPER | — | — | .5 | 120 | 1 | 2#12 | 1/2 | 20/1 | — | — | T'STAT | E | — | | | | | |

## SECTION "B" POWER PLAN

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



PANEL LNW SCHEDULE

SERVICE: 208/120V (3PH) 4W

| EQUIPMENT | ϕ | RECPT | LOAD KVA | CIRC BK AMP P | CIR ϕ | BUS | CIR ϕ | CIRC BK AMP P | LOAD KVA | RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPT | | 5 | 0.90 | 20A1P | 1 | | 2 | 20A1P | 1.44 | 8 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | 3 | | 4 | 20A1P | 1.44 | 8 | RECEPT |
| RECEPT | | 7 | 1.26 | 20A1P | 5 | | 6 | 20A1P | 1.26 | 7 | RECEPT |
| RECEPT | | 5 | 0.90 | 20A1P | 7 | | 8 | 20A1P | 1.44 | 8 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | 9 | | 10 | 20A1P | 1.08 | 6 | RECEPT |
| RECEPT | | 7 | 1.26 | 20A1P | 11 | | 12 | 20A1P | 0.90 | 5 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 13 | | 14 | 20A1P | 1.18 | 0 | VACUUM |
| HD. DRYER | | 0 | 1.38 | 20A1P | 15 | | 16 | 20A1P | | | SPARE |
| HD. DRYER | | 0 | 1.38 | 20A1P | 17 | | 18 | 20A1P | | | SPARE |
| HD. DRYER | | 0 | 1.38 | 20A1P | 19 | | 20 | 20A1P | | | SPARE |
| EX FANS | | 0 | 1.50 | 20A1P | 21 | | 22 | 20A1P | | | SPARE |
| HEAT TAPE | | 0 | 1.50 | 20A1P | 23 | | 24 | 20A1P | | | SPARE |
| SPARE | | | | 20A1P | 25 | | 26 | 20A1P | | | SPARE |
| SPARE | | | | 20A1P | 27 | | 28 | 20A1P | | | SPARE |
| SPARE | | | | 20A1P | 29 | | 30 | 20A1P | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 8.62 | 7.56 | 7.56 | 23.74 | A/B BAL 14.0% | PH A 72.AMPS. |
| LOAD (KW) | 8.17 | 7.56 | 7.56 | 23.29 | A/C BAL 14.0% | PH B 63.AMPS. |
| PWR.FACTOR | 0.948 | 1.000 | 1.000 | 0.981 | B/C BAL 0.0% | PH C 63.AMPS. |

| | MOTORS | STD RCP | HEATER | OTHR LD | TOTAL |
|---|---|---|---|---|---|
| KVA | 1.5 | 12.0 | 7.0 | 1.5 | 22.0 |
| KW | 0.9 | 12.0 | 7.0 | 1.5 | 21.4 |
| P.F. | 0.619 | 1.000 | 1.000 | 1.000 | 0.975 |

MAIN BREAKER: 100 BUS AMPACITY: 100 PANEL MOUNTING: SFC

PANEL LSW SCHEDULE

SERVICE: 208/120V (3PH) 4W

| EQUIPMENT | ϕ | RECPT | LOAD KVA | CIRC BK AMP P | CIR ϕ | BUS | CIR ϕ | CIRC BK AMP P | LOAD KVA | RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| RECEPT | | 5 | 0.90 | 20A1P | 1 | | 2 | 20A1P | 1.08 | 6 | RECEPT |
| RECEPT | | 7 | 1.26 | 20A1P | 3 | | 4 | 20A1P | 1.26 | 7 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | 5 | | 6 | 20A1P | 1.08 | 6 | RECEPT |
| RECEPT | | 6 | 1.08 | 20A1P | 7 | | 8 | 20A1P | 1.50 | 0 | RECEPT |
| RECEPT | | 5 | 0.90 | 20A1P | 9 | | 10 | 20A1P | 1.50 | 0 | RECEPT |
| RECEPT | | 8 | 1.44 | 20A1P | 11 | | 12 | 20A1P | 1.50 | 0 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 13 | | 14 | 20A1P | 1.44 | 8 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 15 | | 16 | 20A1P | 1.08 | 6 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 17 | | 18 | 20A1P | 0.90 | 5 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 19 | | 20 | 20A1P | 1.08 | 6 | RECEPT |
| HD. DRYER | | 0 | 1.38 | 20A1P | 21 | | 22 | 20A1P | 1.50 | 0 | FANS & CON |
| HD. DRYER | | 0 | 1.38 | 20A1P | 23 | | 24 | 20A1P | 1.50 | 0 | HT TAPE |
| VACUUM | | 0 | 1.18 | 20A1P | 25 | | 26 | 20A1P | | | SPARE |
| SPARE | | | | 20A1P | 27 | | 28 | 20A1P | | | SPARE |
| SPARE | | | | 20A1P | 29 | | 30 | 20A1P | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 11.02 | 10.26 | 10.26 | 31.54 | A/B BAL 7.4% | PH A 92.AMPS. |
| LOAD (KW) | 10.57 | 10.26 | 10.26 | 31.09 | A/C BAL 7.4% | PH B 86.AMPS. |
| PWR.FACTOR | 0.959 | 1.000 | 1.000 | 0.986 | B/C BAL 0.0% | PH C 86.AMPS. |

| | MOTORS | STD RCP | SPC RCP | DRYER | OTHR LD | TOTAL |
|---|---|---|---|---|---|---|
| KVA | 1.5 | 12.3 | 4.5 | 8.3 | 3.0 | 29.5 |
| KW | 0.9 | 12.3 | 4.5 | 8.3 | 3.0 | 29.0 |
| P.F. | 0.619 | 1.000 | 1.000 | 1.000 | 1.000 | 0.981 |

MAIN BREAKER: 125 BUS AMPACITY: 225 A PANEL MOUNTING: SFC

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steamboat Springs
Muchow & Partners, Architects, Denver

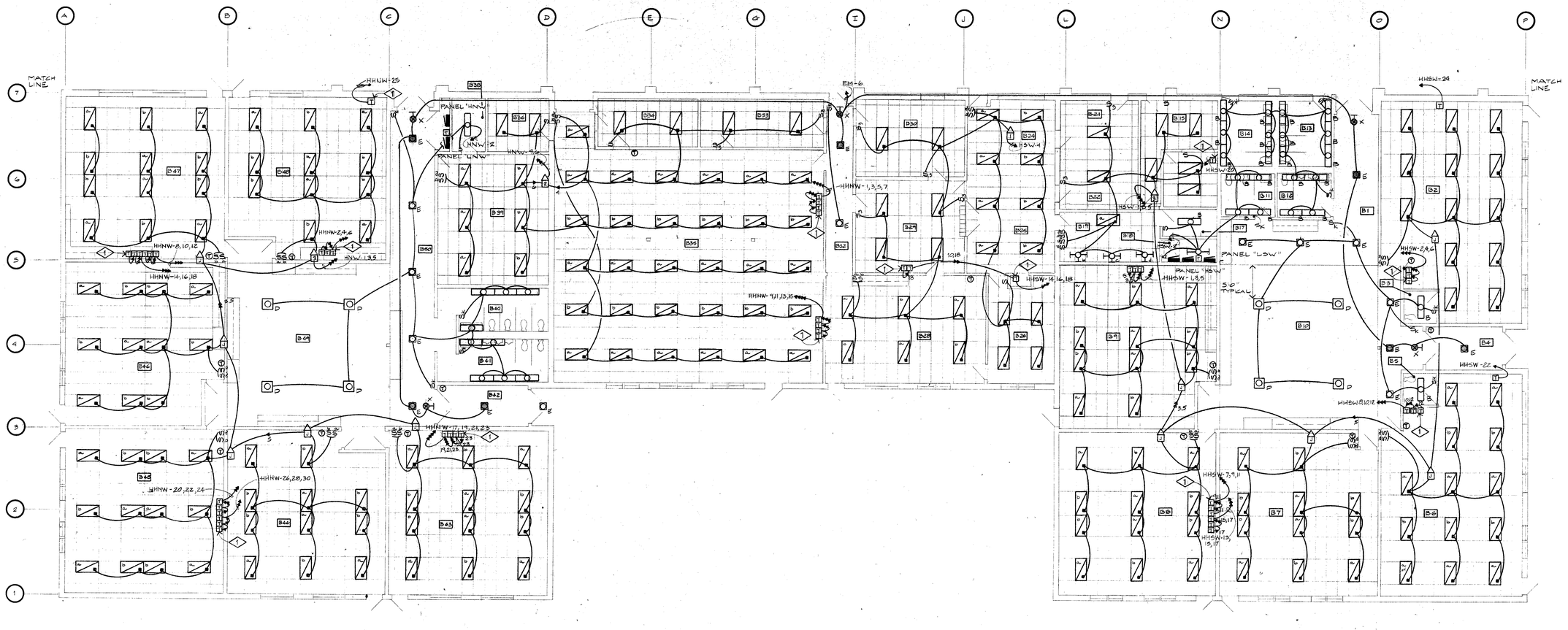
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc., Electrical Engineers, Denver

TITLE
SECTION "B" POWER PLAN, MECHANICAL EQUIPMENT SCHEDULE

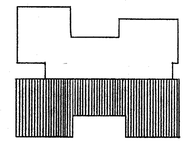
JOB NO. 7810.00
DRAWN EEB
CHECKED PLW
DATE MAY 8 1980
REVISED

DRAWING NUMBER
E-8

OF 9 DRAWINGS




## SECTION "B" LIGHTING PLAN
SCALE: 1/8" = 1'-0"



## DETAIL NOTES THIS SHEET

① TRANSFORMERS LOCATED IN CEILING SPACE TYPICAL FOR ELECTRIC HEATING SYSTEM. REFERENCE HEATING FLOOR PLAN SHEET E-7.

PANEL HNW SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| LTG | 0 | 3.54 | 20A1P | 1 | | 2 | 20A1P | 3.17 | 0 | LTG |
| LTG | 0 | 3.54 | 20A1P | 3 | | 4 | 20A1P | 3.08 | 0 | LTG |
| LTG | 0 | 3.54 | 20A1P | 5 | | 6 | 20A1P | 3.54 | 0 | LTG |
| SPARE | | | 20A1P | 7 | | 8 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 9 | | 10 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 11 | | 12 | 20A1P | | | SPARE |
| PANEL LHW | 0 | 30.00 | 50A3P | 13 | | 14 | 15A3P | 4.50 | 0 | UNIT VENT |
| WIRE SIZE | # 6 | / | | 15 | | 16 | / | # 12 WIRE SIZE | | |
| WIRE SIZE | # 6 | / | | 17 | | 18 | / | # 12 WIRE SIZE | | |
| SPARE | | | 20A1P | 19 | | 20 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 21 | | 22 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 23 | | 24 | 20A1P | | | SPARE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 18.21 | 18.12 | 18.58 | 54.92 | A/B BAL 0.5% | PH A 66.AMPS. |
| LOAD (KW) | 17.82 | 17.02 | 18.26 | 53.70 | A/C BAL 2.0% | PH B 65.AMPS. |
| PWR.FACTOR | 0.978 | 0.983 | 0.983 | 0.981 | B/C BAL 2.5% | PH C 67.AMPS. |

| | LIGHTNG | HEATER | XFMR | TOTAL |
|---|---|---|---|---|
| KVA | 25.5 | 4.5 | 30.0 | 60.0 |
| KW | 24.3 | 4.5 | 30.0 | 58.8 |
| P.F. | 0.950 | 1.000 | 1.000 | 0.979 |

MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC

PANEL HSW SCHEDULE

SERVICE: 480/277V (3PH) 4W

| EQUIPMENT | # RECPT | LOAD KVA | CIRC BK AMP P | CIR # | BUS | CIR # | CIRC BK AMP P | LOAD KVA | # RECPT | EQUIPMENT |
|---|---|---|---|---|---|---|---|---|---|---|
| LTG | 0 | 2.78 | 20A1P | 1 | | 2 | 20A1P | 3.43 | 0 | LTG |
| LTG | 0 | 3.54 | 20A1P | 3 | | 4 | 20A1P | 3.70 | 0 | LTG |
| LTG | 0 | 4.00 | 20A1P | 5 | | 6 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 7 | | 8 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 9 | | 10 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 11 | | 12 | 20A1P | | | SPARE |
| PANEL LSW | 0 | 30.00 | 50A3P | 13 | | 14 | 15A3P | 9.00 | 0 | UNH VENT |
| WIRE SIZE | # 6 | / | | 15 | | 16 | / | # 12 WIRE SIZE | | |
| WIRE SIZE | # 6 | / | | 17 | | 18 | / | # 12 WIRE SIZE | | |
| SPARE | | | 20A1P | 19 | | 20 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 21 | | 22 | 20A1P | | | SPARE |
| SPARE | | | 20A1P | 23 | | 24 | 20A1P | | | SPARE |
| SPACE | | | | 25 | | 26 | | | | SPACE |
| SPACE | | | | 27 | | 28 | | | | SPACE |
| SPACE | | | | 29 | | 30 | | | | SPACE |

| | PHASE A | PHASE B | PHASE C | TOTAL | | |
|---|---|---|---|---|---|---|
| LOAD (KVA) | 19.41 | 20.24 | 17.00 | 56.65 | A/B BAL 4.3% | PH A 70.AMPS. |
| LOAD (KW) | 19.03 | 19.91 | 16.82 | 55.76 | A/C BAL 14.1% | PH B 73.AMPS. |
| PWR.FACTOR | 0.980 | 0.984 | 0.989 | 0.984 | B/C BAL 19.0% | PH C 61.AMPS. |

| | LIGHTNG | HEATER | XFMR | TOTAL |
|---|---|---|---|---|
| KVA | 22.1 | 9.0 | 30.0 | 61.1 |
| KW | 20.9 | 9.0 | 30.0 | 59.9 |
| P.F. | 0.949 | 1.000 | 1.000 | 0.982 |

MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2
STEAMBOAT SPRINGS
COLORADO

SSES

Robert Sanford Ralston Associates, Architects, Steambcat Springs
Muchow & Partners, Architects, Denver

Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver
Garland D.Cox Associates, Inc, Electrical Engineers, Denver

TITLE
SECTION "B" LIGHTING PLAN

JOB NO. 7910.00
DRAWN KEE
CHECKED PLW
DATE MAY 8,1980
REVISED

DRAWING NUMBER
E-9

OF 9 DRAWINGS