

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

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

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

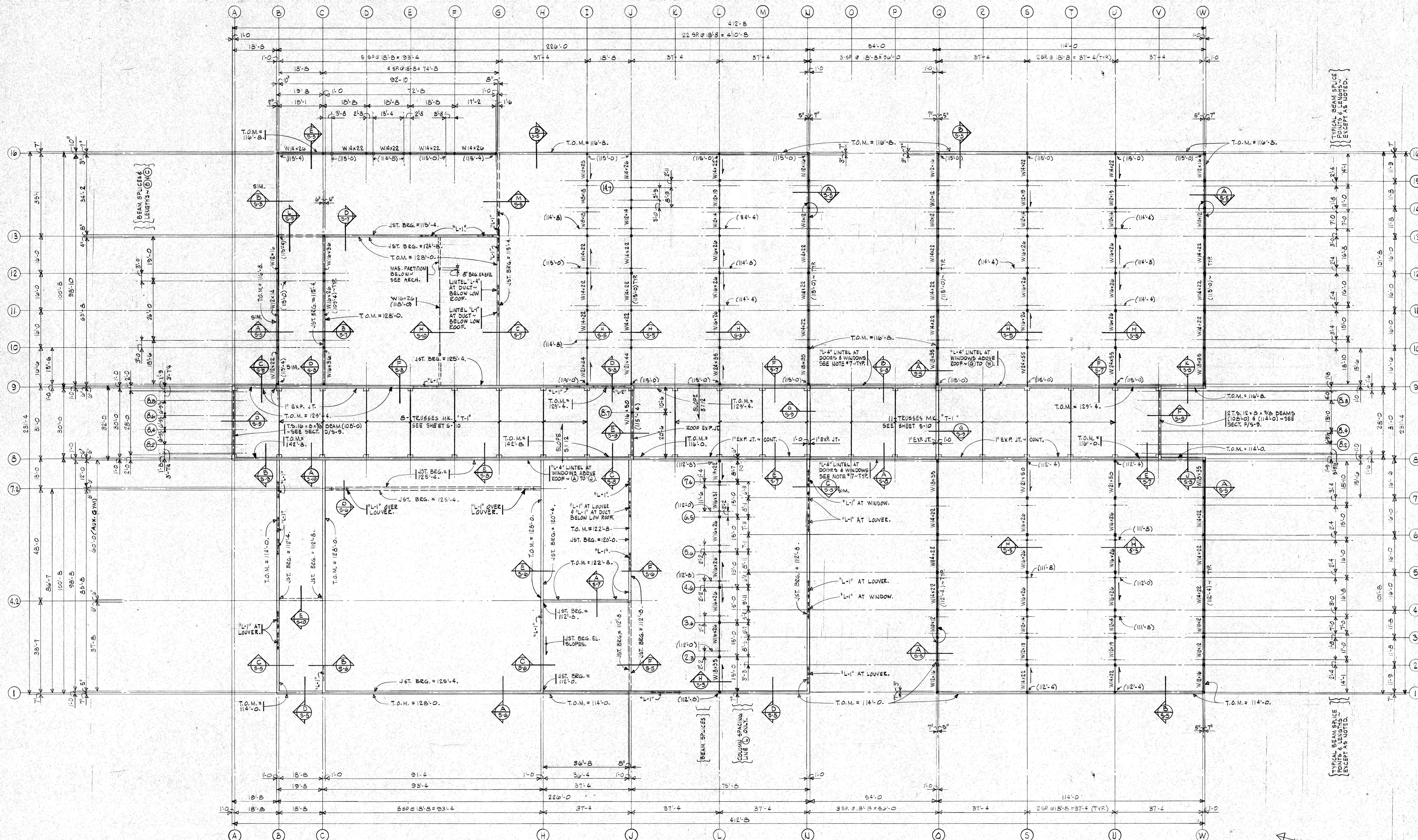
**TITLE** FOUNDATION PLAN AND DETAILS.

**JOB NO.** 7300-6200  
**DRAWN** G.L. & L.E.K.  
**CHECKED** L.E.K.  
**DATE** 5 MAY 60  
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**DRAWING** NUMBER

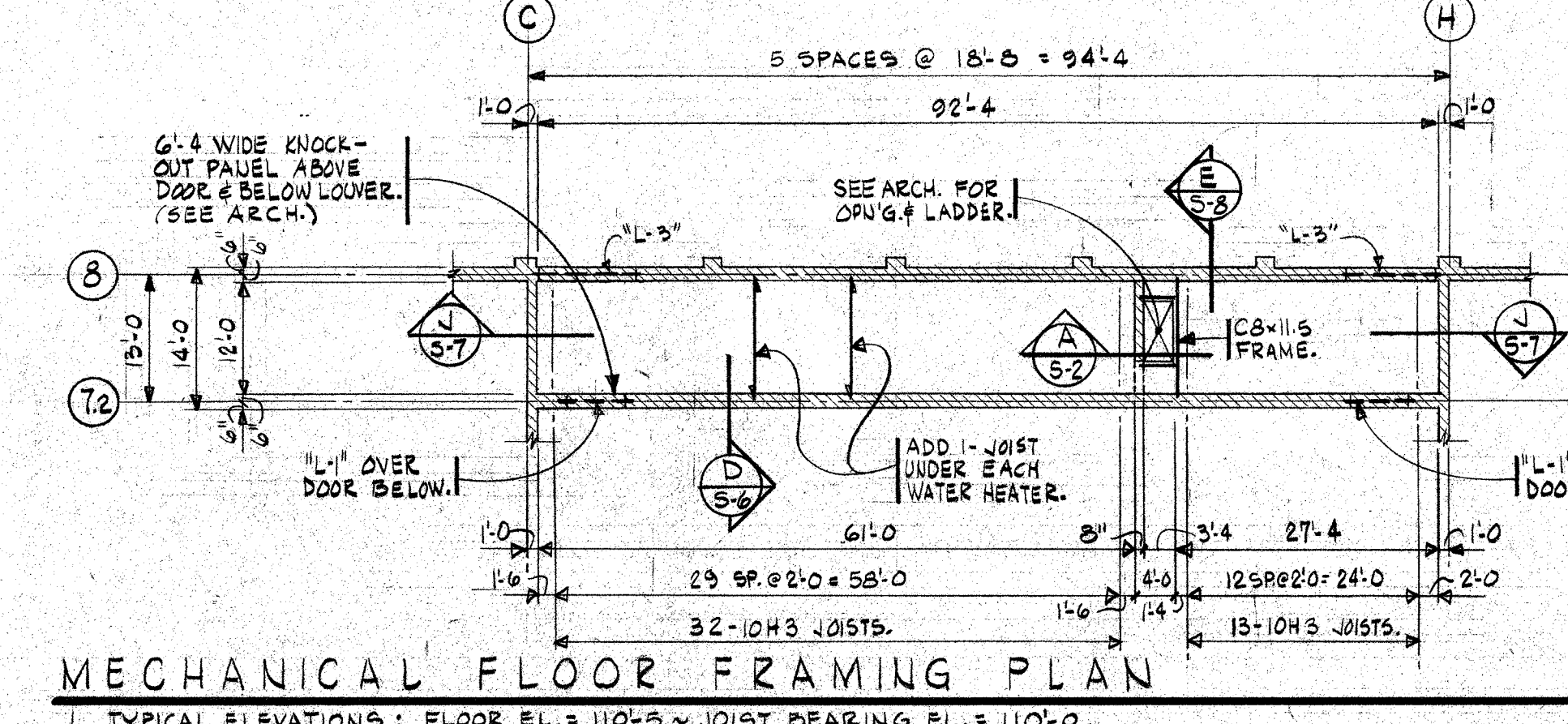
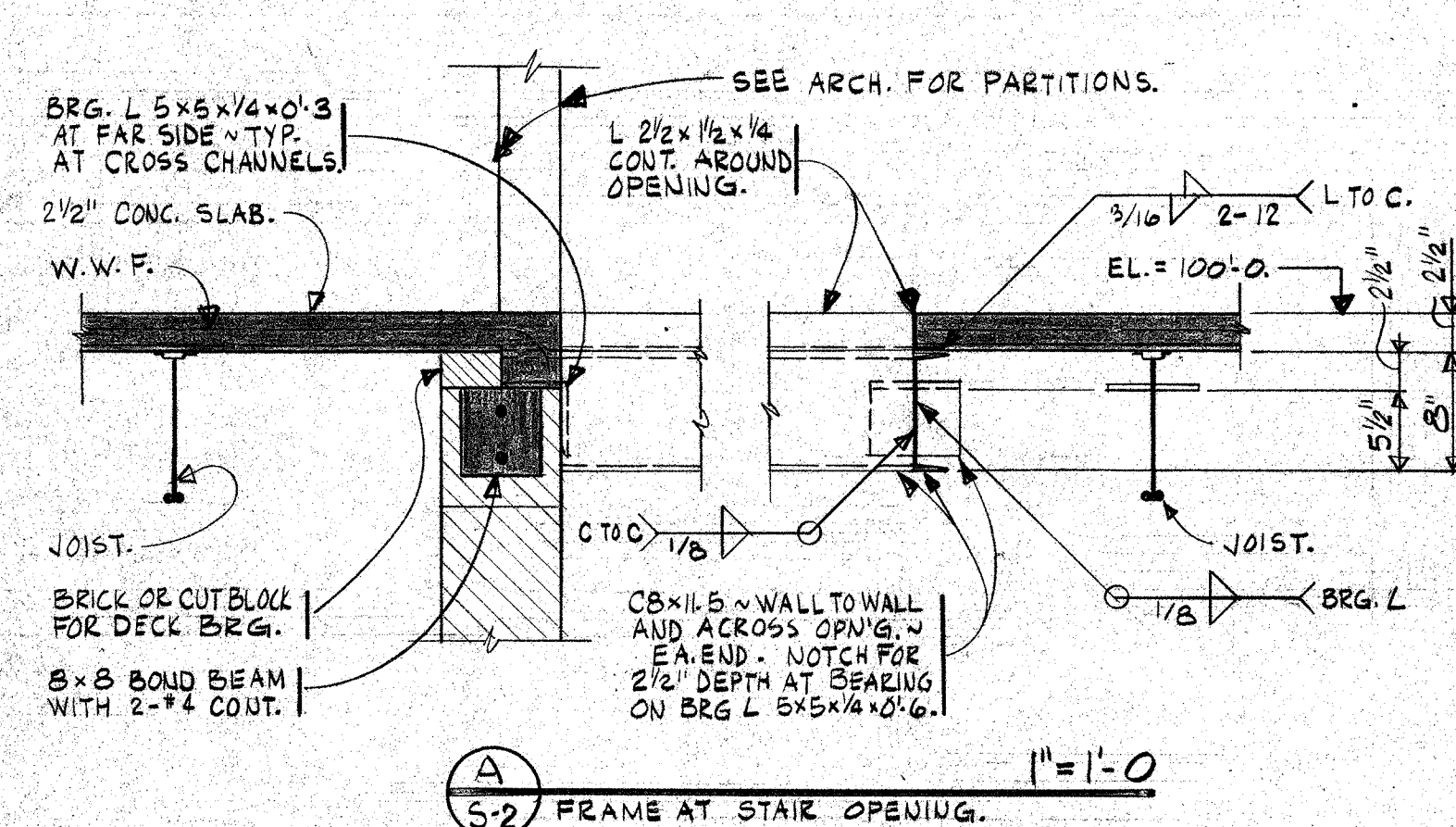
**S-1**  
 OF 11 DRAWINGS





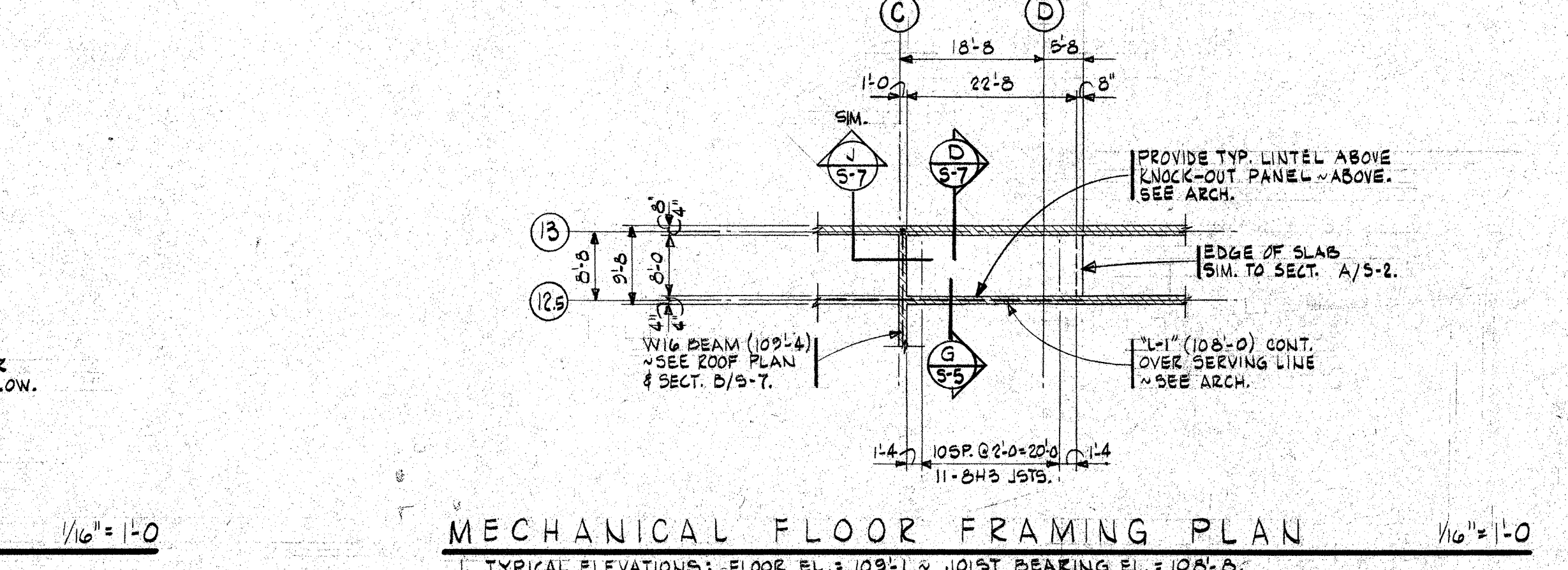
PARTIAL ROOF FRAMING PLAN - STEEL BEAM SIZE & EL., AND STEEL JOIST BEARING ELEVATION -

- SEE SHEET S-3 FOR STEEL JOIST SIZE AND SPACING.
- TYPICAL ELEVATIONS ARE NOTED ON PLAN THUS:  
TOP OF STEEL BEAM EL. --- NOTED: (---)  
STEEL JOIST BEARING EL. --- NOTED: (---)  
TOP OF MASONRY EL. --- NOTED: T.O.M. ---
- STEEL JOISTS BEAR AT TOP OF STEEL BEAM EL., EXCEPT AS NOTED.
- STEEL BEAMS SPACED UNIFORMLY BETWEEN ELEVATIONS NOTED.
- SEE SHEET S-4 FOR GENERAL NOTES, LOOSE LINTEL SCHEDULES AND TYPICAL DETAILS.
- SEE ARCH. FOR MASONRY OPENINGS, LINTEL BEARING EL. AND ALL MASONRY DETAILS EXCEPT REINFORCING AND LINTEL SIZES.
- SPECIAL MASONRY LINTELS ARE NOTED ON PLAN THUS: "L-1" AT WINDOW, "L-1" AT DOOR, "L-1" AT LOUVER, "L-1" AT ROOF, "L-1" AT DUCT, "L-1" AT CHIMNEY, "L-1" AT VENT, "L-1" AT EXHAUST, "L-1" AT MECH. EQUIPMENT, "L-1" AT ELEVATOR, "L-1" AT STAIR, "L-1" AT RAMP, "L-1" AT CURB, "L-1" AT SLOPE, "L-1" AT TERRACE, "L-1" AT BALCONY, "L-1" AT PORCH, "L-1" AT PATIO, "L-1" AT DRIVE, "L-1" AT GARAGE, "L-1" AT CARPORT, "L-1" AT PORCH, "L-1" AT PATIO, "L-1" AT DRIVE, "L-1" AT GARAGE, "L-1" AT CARPORT.



MECHANICAL FLOOR FRAMING PLAN

- TYPICAL ELEVATIONS: FLOOR EL. 110'-0", JOIST BEARING EL. 110'-0".
- FLOOR SHALL BE 2 1/2" CONC. SLAB ON WHEELING "TF-50" GALV. DECK, OR AN APPROVED EQUAL.
- SEE NOTES #5 & #6 ABOVE & NOTE #2 ON SHEET S-3.



MECHANICAL FLOOR FRAMING PLAN

- TYPICAL ELEVATIONS: FLOOR EL. 108'-0", JOIST BEARING EL. 108'-0".
- FLOOR SHALL BE 2 1/2" CONC. SLAB ON WHEELING "TF-50" GALV. DECK, OR AN APPROVED EQUAL.
- SEE NOTES #5 & #6 ABOVE & NOTE #2 ON SHEET S-3.

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2

COLORADO

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SSMS

STATE OF COLORADO

Robert Sanford Ralston

Professional Engineer

No. B-581

Exp. 12-31-2025

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Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE

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

JOB NO. 1900-0300

DRAWN BY LER

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DATE 05 MAY 00

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DRAWING NUMBER

S-2

OF 11 DRAWINGS







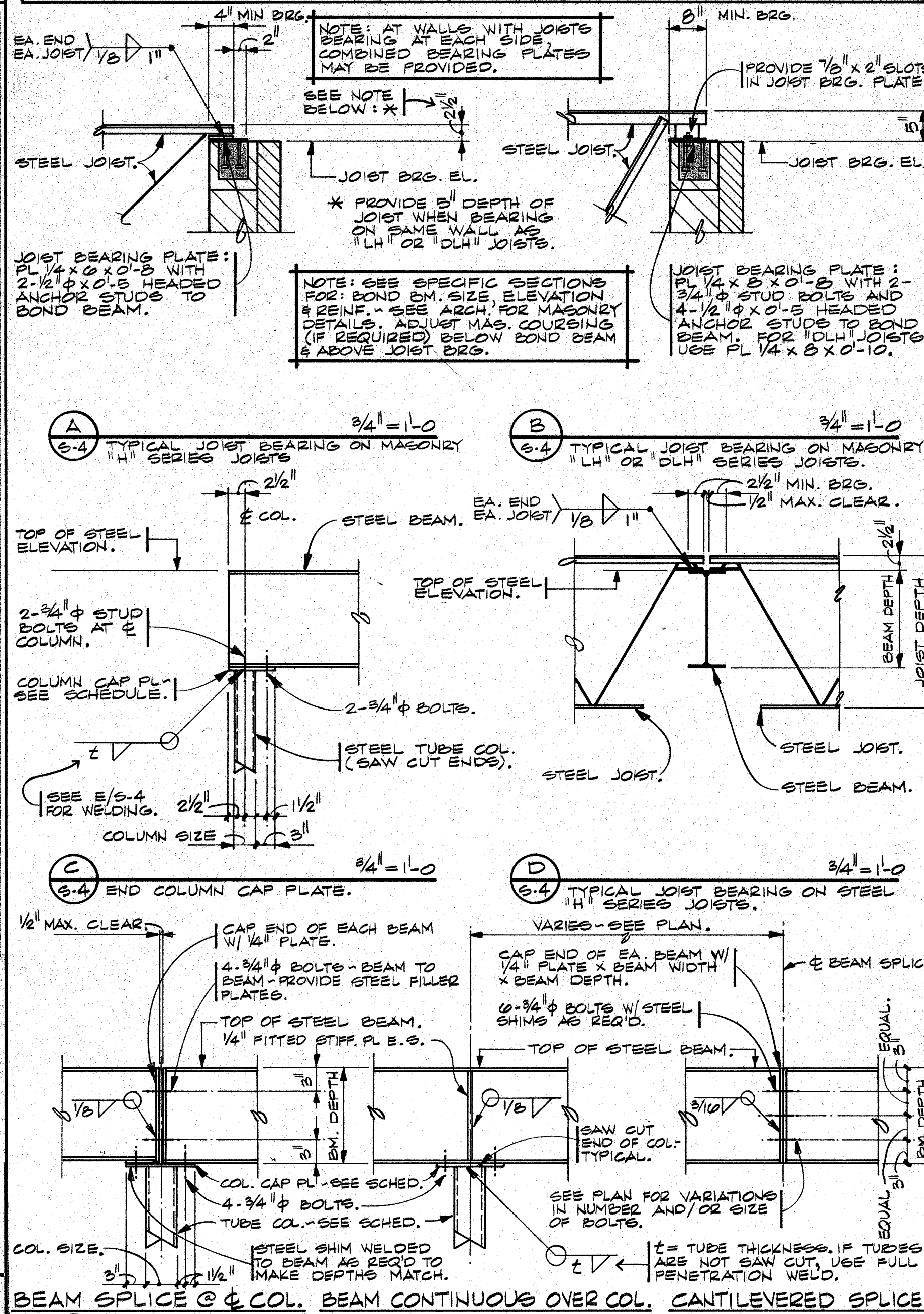
# GENERAL NOTES

- LIVE LOADS USED IN DESIGN:
  - ROOF . . . . . 100 PSF.
  - LESS THAN 30' HEIGHT . . . . . 20 PSF.
  - 30' HEIGHT AND ABOVE . . . . . 25 PSF.
  - MECHANICAL FLOOR . . . . . 125 PSF.
- SOIL DATA WAS TAKEN FROM RECOMMENDATIONS SET FORTH IN THE REPORT ON JOB #19,305 BY CHEN AND ASSOC., INC., DATED OCTOBER 31, 1979.
- SOIL BEARING PRESSURE ON NATURAL SOILS USED IN DESIGN: 2000 PSF.
- CONCRETE:
  - ALL CONCRETE SHALL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS AND SHALL BE PLACED WITH 4" MAXIMUM SLUMP.
  - 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% ENTRAINED AIR.
  - SLABS AND FOUNDATION WALLS SHALL NOT HAVE JOINTS IN A HORIZONTAL PLANE. ANY JOINT 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.
  - CONCRETE SHALL NOT BE PLACED ON FROZEN, MUDDY OR SATURATED SOIL AND SHALL BE PROTECTED FROM FREEZING FOR 5 DAYS.
- REINFORCING STEEL:
  - 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.
  - CONCRETE PROTECTION FOR REINFORCEMENT (UNLESS OTHERWISE NOTED):
    - CONCRETE POURED AGAINST EARTH . . . . . 3".
    - CONCRETE POURED IN FORMS BUT EXPOSED TO WEATHER OR EARTH:
      - #5 BARS OR SMALLER . . . . . 1 1/2".
      - BARS LARGER THAN #5 . . . . . 3/4".
    - SLABS . . . . . 3/4".
  - 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, BUT NOT LESS THAN 6", AND SHALL BE WIRE TOGETHER. MAKE ALL BARS CONTINUOUS AROUND CORNERS OR PROVIDE CORNER BARS OF EQUAL SIZE AND SPACING. DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF A.C.I. DETAILING MANUAL AND A.C.I. BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE.
  - PROVIDE ALL ACCESSORIES NECESSARY TO SUPPORT REINFORCING AT POSITIONS SHOWN ON THE PLANS.
  - PLACE 1" BAR WITH 2'-0" PROJECTION AROUND ALL OPENINGS IN CONCRETE WITH 1" BAR EACH FACE IN CONCRETE 4" OR MORE IN THICKNESS.
- STEEL:
  - ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM A36, EXCEPT TUBE SHAPES SHALL CONFORM TO ASTM A500 (GRADE B) AND SHIT GAGE STEEL PURLIN SHALL BE FABRICATED FROM ASTM A570 (GRADE D).
  - STRUCTURAL STEEL SHALL BE DETAILED AND FABRICATED IN ACCORDANCE WITH LATEST PROVISIONS OF AISC MANUAL OF STEEL CONSTRUCTION.
  - ALL WELDERS SHALL HAVE EVIDENCE OF PASSING THE AWS STANDARD TESTS. ALL WELDS SHALL BE MADE USING E70 ELECTRODES.
  - USE STANDARD FRAMED BEAM CONNECTIONS WITH 3/8" 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.
  - STEEL JOISTS SHALL BE DESIGNED, FABRICATED, AND ERECTED IN ACCORDANCE WITH STEEL JOIST INSTITUTE SPECIFICATIONS.
  - STEEL DECK:
    - ALL STEEL DECK SHALL BE ERECTED IN ACCORDANCE WITH DECK MANUFACTURER'S SUGGESTED SPECIFICATION.
    - 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.
    - DECK SUPPLIER SHALL PROVIDE ALL ACCESSORIES REQUIRED FOR OPENINGS THROUGH DECK.
- SEE ARCHITECTURAL DRAWINGS FOR HALLER HOLES, ETC.
- MASONRY:
  - ALL MASONRY BLOCK UNITS SHALL CONFORM TO ASTM C90-GRADE A.
  - ALL MORTAR SHALL CONFORM TO ASTM C270, TYPE S. GROUT FOR BOND BEAMS, PILLASTERS, AND VERTICAL WALL REINFORCING SHALL BE 3/8" AGGREGATE CONCRETE WHICH WILL DEVELOP 3000 PSI COMPRESSIVE STRENGTH IN 28 DAYS.
  - HORIZONTAL REINFORCING IN ALL MASONRY WALLS SHALL BE STANDARD "DUR-O-WALL", OR AN APPROVED EQUAL, SPACED AT 16" O.C. UNLESS OTHERWISE NOTED. SPREAD HORIZONTAL REINFORCING IN CAVITY WALLS AT 16" O.C.
  - 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 1" O.P. FILL ALL VOID AND BLOCK CELLS SOLIDLY WITH MORTAR FOR A DISTANCE OF 24" BEHIND AND 12" EACH SIDE OF ALL BEAM REACTIONS OR CONCENTRATED LOADS.
  - ALL DIMENSIONS ON STRUCTURAL DRAWINGS SHALL BE CHECKED AGAINST ARCHITECTURAL.
  - ARCHITECT'S APPROVAL MUST BE SECURED FOR ALL SUBSTITUTIONS.
  - VERIFY ALL OPENINGS THROUGH FLOOR AND WALLS WITH MECHANICAL AND ELECTRICAL CONTRACTORS.
  - EXPLANATION OF SECTION DESIGNATION USED:
    - FOR NOTE REFERENCE "SECT. 8/5-6"

SECTION MARK.

STRUCTURAL SHEET ON WHICH SECTION IS DRAWN.

# TYPICAL DETAILS



TYP. CORNER COLUMN TYP. EXTERIOR COL. TYP. INTERIOR COL.

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

# SCHEDULE OF COLUMN SIZES AND FOOTING MARKS

GRID LOCATIONS	1-2/W 10-8/5/I/J 10-N/2/W 8-13	3-2/4/15/14/15 4-2/14/15/14/15 N-13/14/15 8-10/11/12	5-10/7/10/11/12 N-13/14/15 10-N/11/12 10-C/D/E/F	A-2/2/4/1/8/0 A-8/8	V-2/2/4/1/8/0 A-8/8	C-13	I-14 J-14	B-3/14 U-15/15 J-15/14.7 L-14	B-2/15 C-10/11/12 I-11/12 J-11/12 U-2/15 L-15	B-4/5/10/11/12/13 L-13/14/15/16/17/18 L-4/10/11/12/13 L-7.4	B-4/5/10/11/12/13 L-13/14/15/16/17/18 L-4/10/11/12/13 L-7.4
COLUMN CAP PL	PL 1/2 x 4 x 0-1/4 INT. PL 1/2 x 4 x 0-1/4 END.	PL 1/2 x 4 x 0-1/4 INT. PL 1/2 x 4 x 0-1/4 END.	PL 1/2 x 5/2 x 0-1/4 INT. PL 1/2 x 5/2 x 0-1/4 END.	NONE-SEE SECT. FOR CONN. TO TUBE BEAM.	NONE-SEE SECT. FOR CONN. TO TUBE BEAM.	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 5/2 x 0-1/4
COLUMN SIZE	T.S. 3/4 x 3/4 x 3/4	T.S. 4 x 4 x 3/4	T.S. 5 x 5 x 3/4	T.S. 10 x 4 x 3/4	T.S. 12 x 4 x 3/4	T.S. 3/4 x 3/4 x 3/4	T.S. 4 x 4 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4
COLUMN BASE PL	PL 3/4 x 4 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1 x 5/2 x 0-1/4 OR PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 10 x 0-1/4	PL 1/2 x 10 x 0-1/4	PL 3/4 x 4 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 11 x 0-1/4	PL 3/4 x 11 x 0-1/4	PL 3/4 x 11 x 0-1/4	PL 3/4 x 11 x 0-1/4
ANCHOR BOLTS	2-3/4" x 12"	2-3/4" x 12"	2-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"
FOOTING MARK	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL	CONT. CONC. WALL
SECTIONS & REMARKS	A 8/5-5 C, E, F 5/5-4	A 8/5-5 E 5/5-4	A 8/5-5 C, E, F 5/5-4	D 5/5-4 G 5/5-4	F 5/5-4 H 5/5-4	B 5/5-4 E, F 5/5-4	H 5/5-4 E, F 5/5-4	H 5/5-4 E, F 5/5-4	H 5/5-4 E, F 5/5-4	H 5/5-4 E, F 5/5-4	H 5/5-4 E, F 5/5-4
GRID LOCATIONS	I-10 J-10 U-7	10-L/8/U J-8/7	L-8	C-9	I-9 J-9 U-9	L-9	B-1/10 U-1/10 L-16	L-1	A-2/9	V-2/9	V-2/9
COLUMN CAP PL	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 5/2 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4	PL 1/2 x 4 x 0-1/4
COLUMN SIZE	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4	T.S. 5 x 5 x 3/4
COLUMN BASE PL	PL 1/2 x 11 x 0-1/4	PL 1 x 12 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 9/2 x 0-1/4	PL 3/4 x 11 x 0-1/4	PL 3/4 x 11 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 10 x 0-1/4	PL 3/4 x 10 x 0-1/4
ANCHOR BOLTS	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"	4-3/4" x 12"
FOOTING MARK	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)	(10)
SECTIONS & REMARKS	H 5/5-5 E, F 5/5-4	H 5/5-5 E, F 5/5-4	E 5/5-5 F 5/5-4	F 5/5-5 E, F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4	E 5/5-5 F 5/5-4

NOTES: 1. SEE PLANS FOR GRID MARKS. COLUMNS WITHIN 2'-0" OF AN EXISTING GRID ARE NOT SHOWN. 2. COLUMNS WITHIN 2'-0" OF AN EXISTING GRID ARE NOT SHOWN. 3. ALL COLUMNS SHALL BE PAINTED. ALSO PROVIDE 20 GAGE X 3/4" X 6" CORRUGATED MASONRY ANCHORS, 5" ANCHOR BOLT LENGTHS DO NOT INCLUDE 2" STANDARD EMBEDMENT. 4. SEE PLANS & SECTIONS FOR EV. OF BEAMS & FTG'S. 5. SEE PLANS & SECTIONS FOR EV. OF BEAMS & FTG'S. 6. SEE PLANS & SECTIONS FOR EV. OF BEAMS & FTG'S.

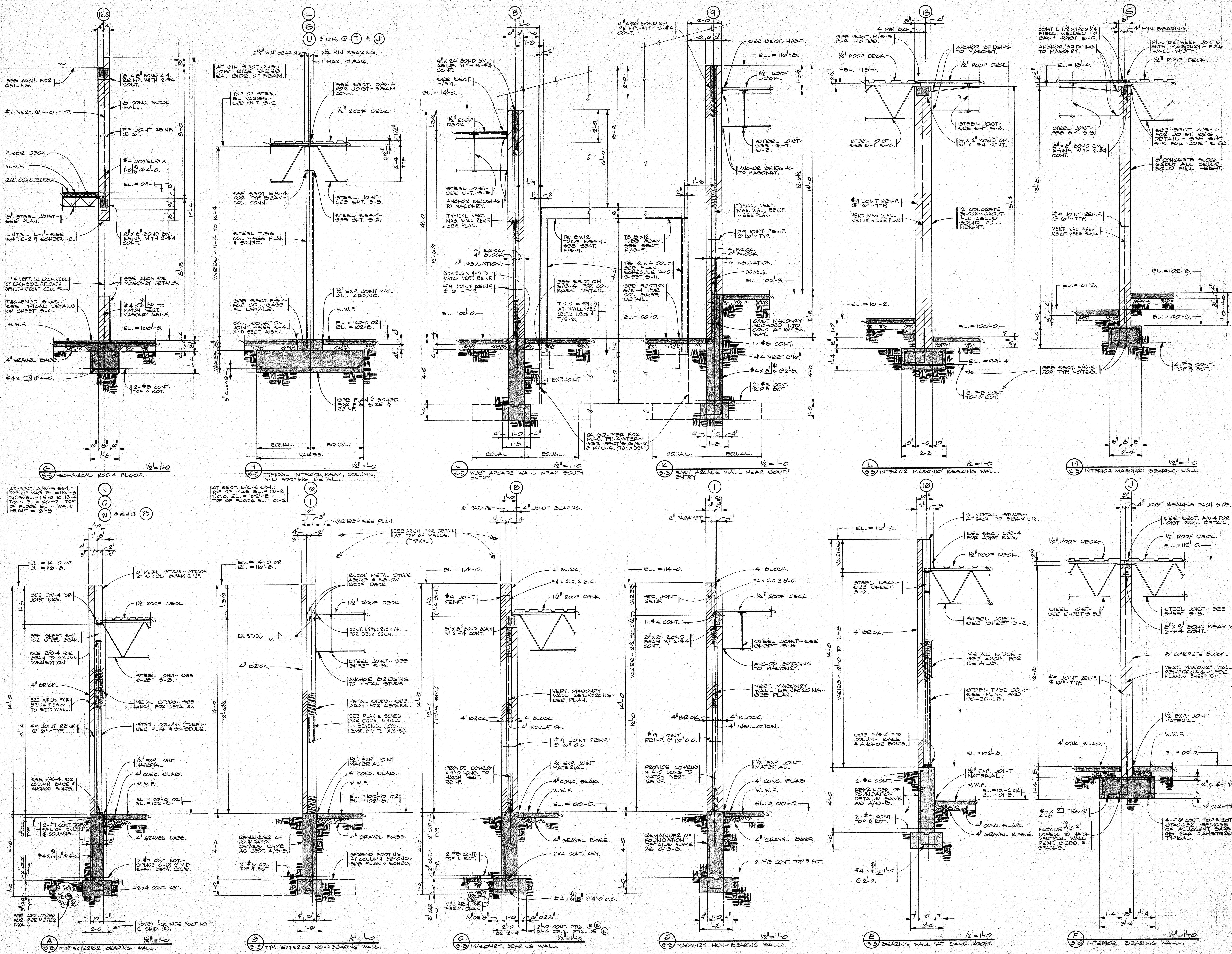
# LOOSE LINTEL SCHEDULES

## TYP. MASONRY LINTELS

OPENINGS	LINTEL SIZE	BEARING	REMARKS
5'-0" OR LESS	10 x 3/4 x 1/4	0" EACH END	
OVER 5'-0" THRU 6'-0"	12 x 3/4 x 1/4	0" EACH END	
OVER 6'-0" THRU 7'-0"	14 x 3/4 x 1/4	0" EACH END	
OVER 7'-0" THRU 8'-0"	16 x 3/4 x 1/4	0" EACH END	
OVER 8'-0" THRU 9'-0"	18 x 3/4 x 1/4	0" EACH END	
OVER 9'-0" THRU 10'-0"	20 x 3/4 x 1/4	0" EACH END	
OVER 10'-0" THRU 11'-0"	22 x 3/4 x 1/4	0" EACH END	

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 ANCHOR BOLTS AT EACH END OF LINTEL. 3. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 4. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 5. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 6. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 7. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 8. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 9. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 10. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 11. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 12. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 13. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 14. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 15. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 16. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 17. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 18. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 19. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 20. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 21. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 22. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 23. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 24. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 25. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 26. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 27. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 28. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 29. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 30. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 31. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 32. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 33. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 34. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 35. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 36. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 37. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 38. PROVIDE ANCHOR BOLTS AT EACH END OF LINTEL. 39. 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STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2  
STEAMBOAT SPRINGS



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

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

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WALL SECTIONS.

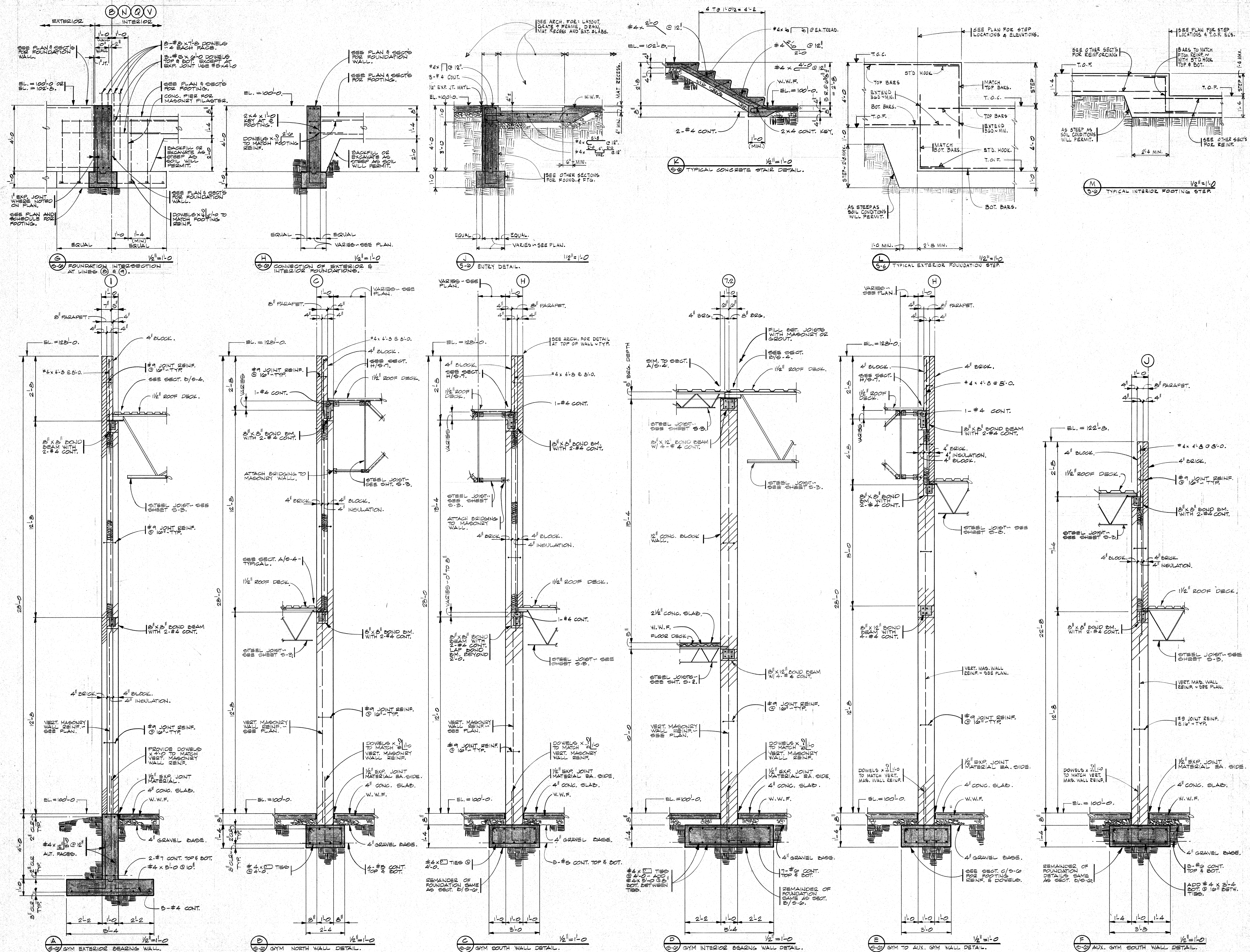
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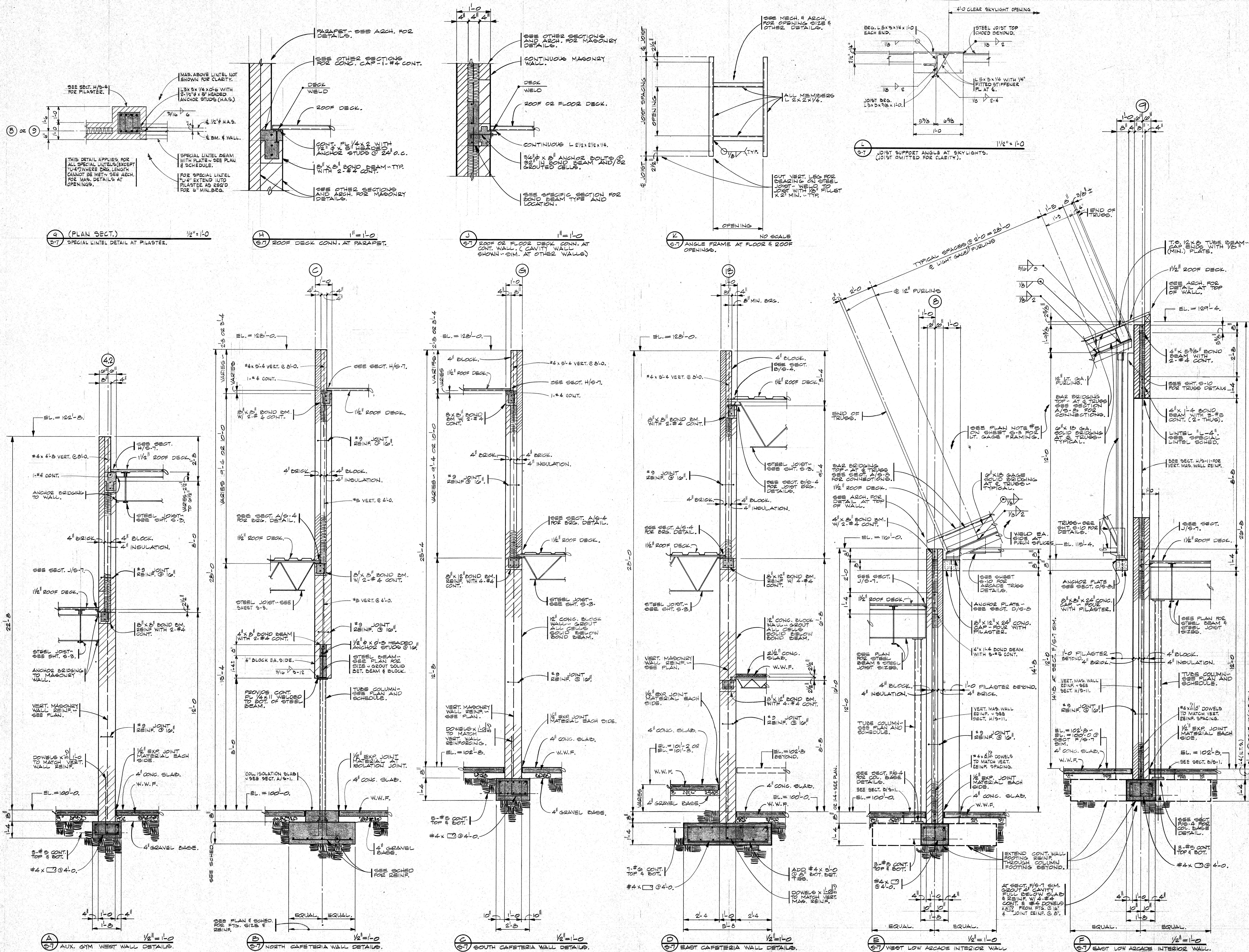
S-5  
OF 11 DRAWINGS

SSMS

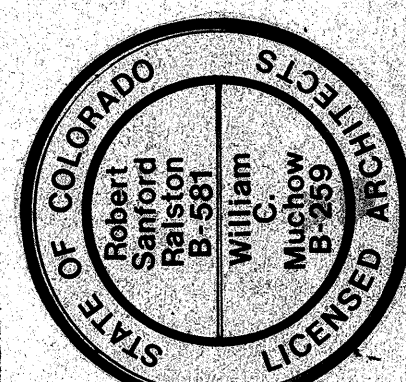












**Robert Sanford Ralston Associates, Architects, Steamboat Springs**  
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Cator, Ruma & Associates, Co., Mechanical Engineers, Denver  
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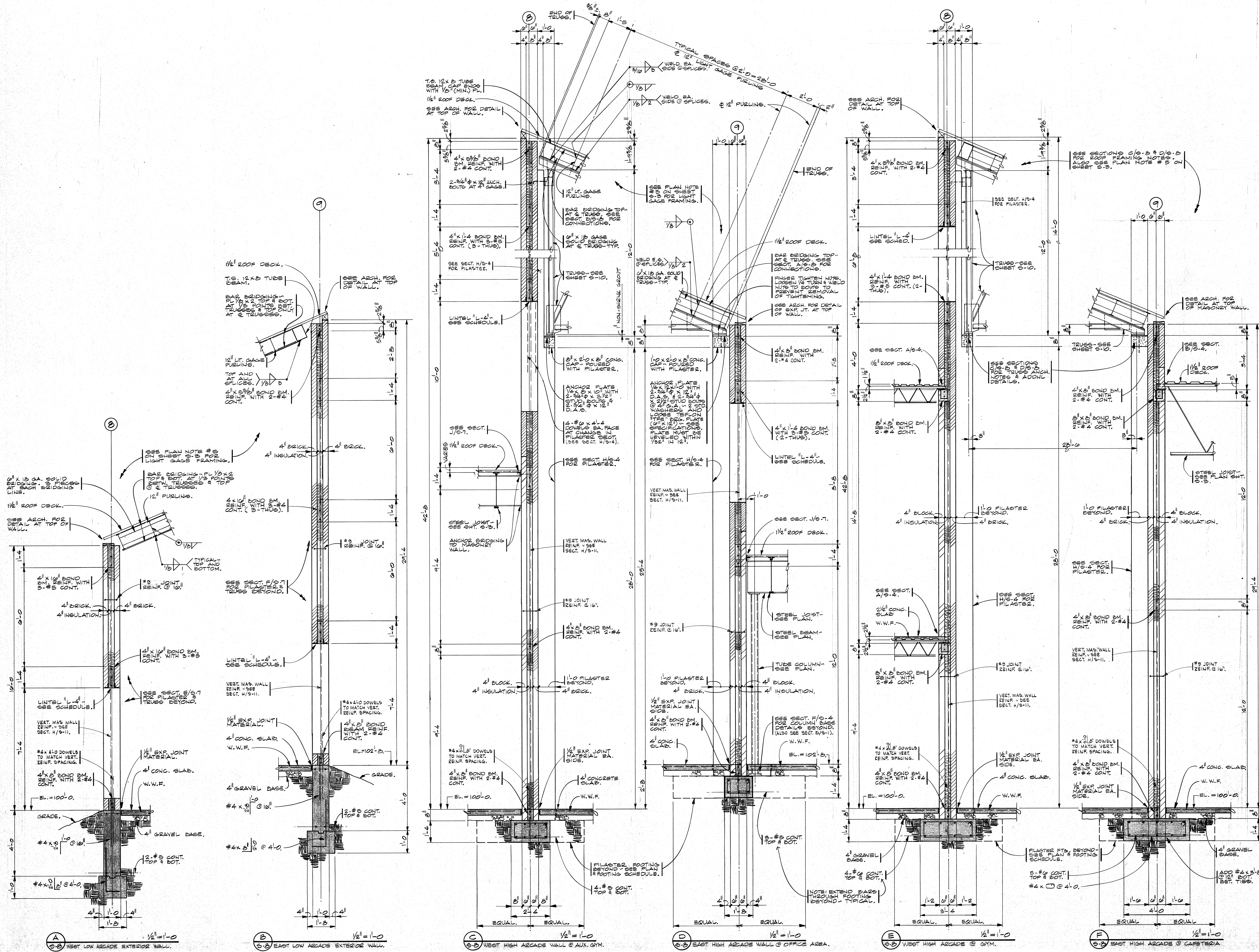
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ARCADE WALL  
SECTIONS

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REVISED

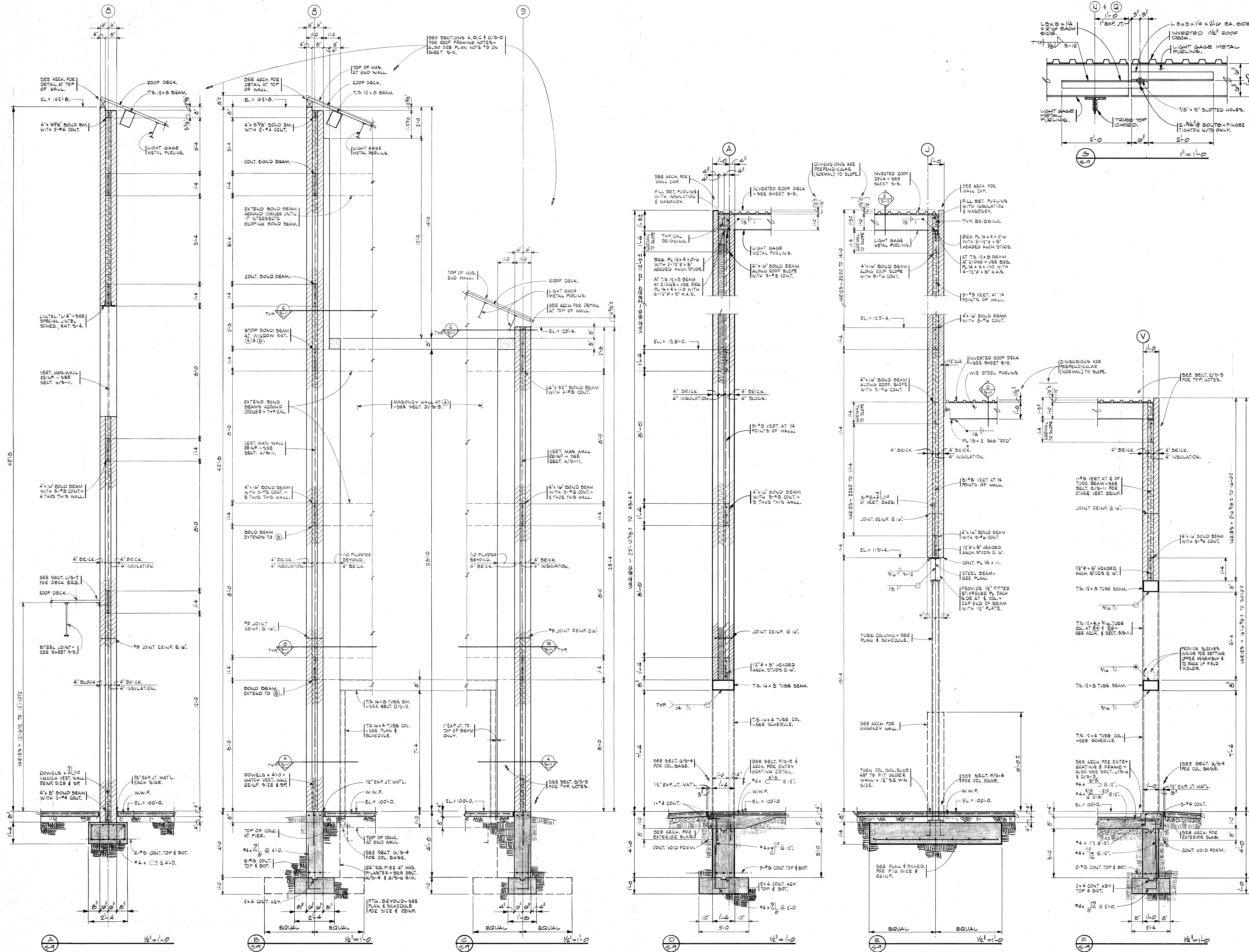
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OF 11 DRAWINGS



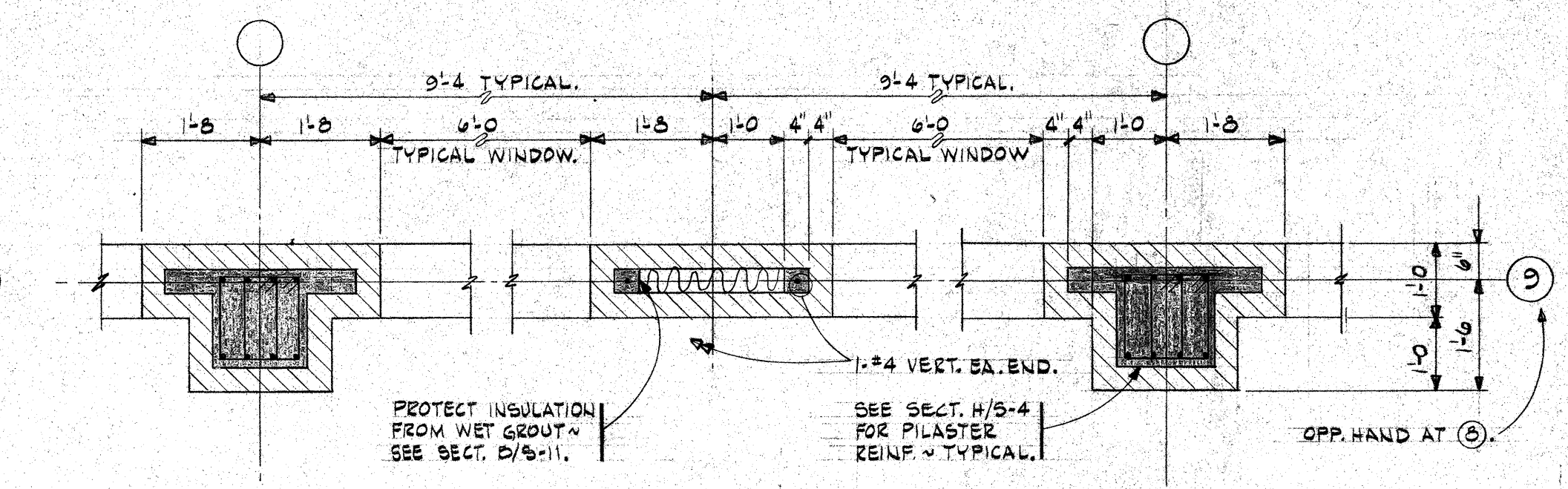




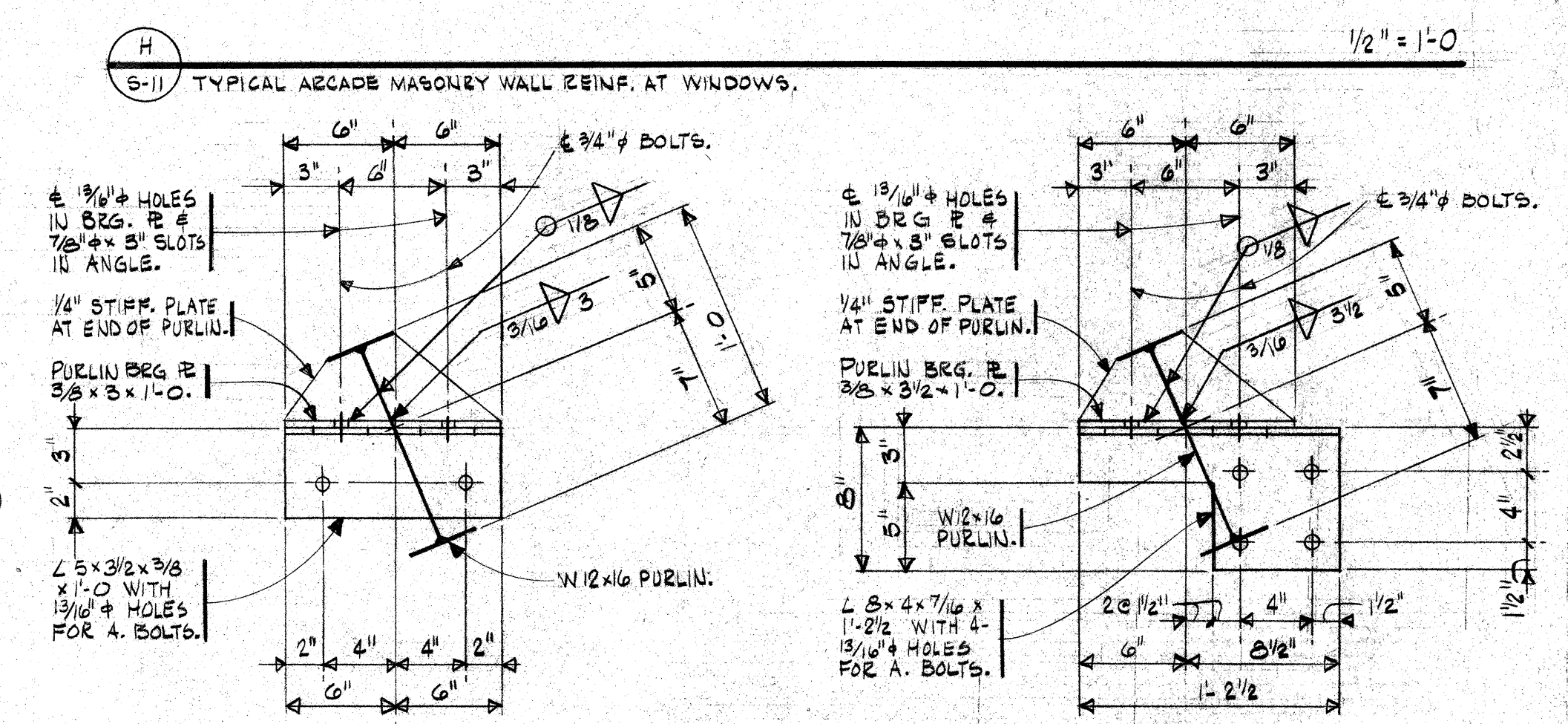




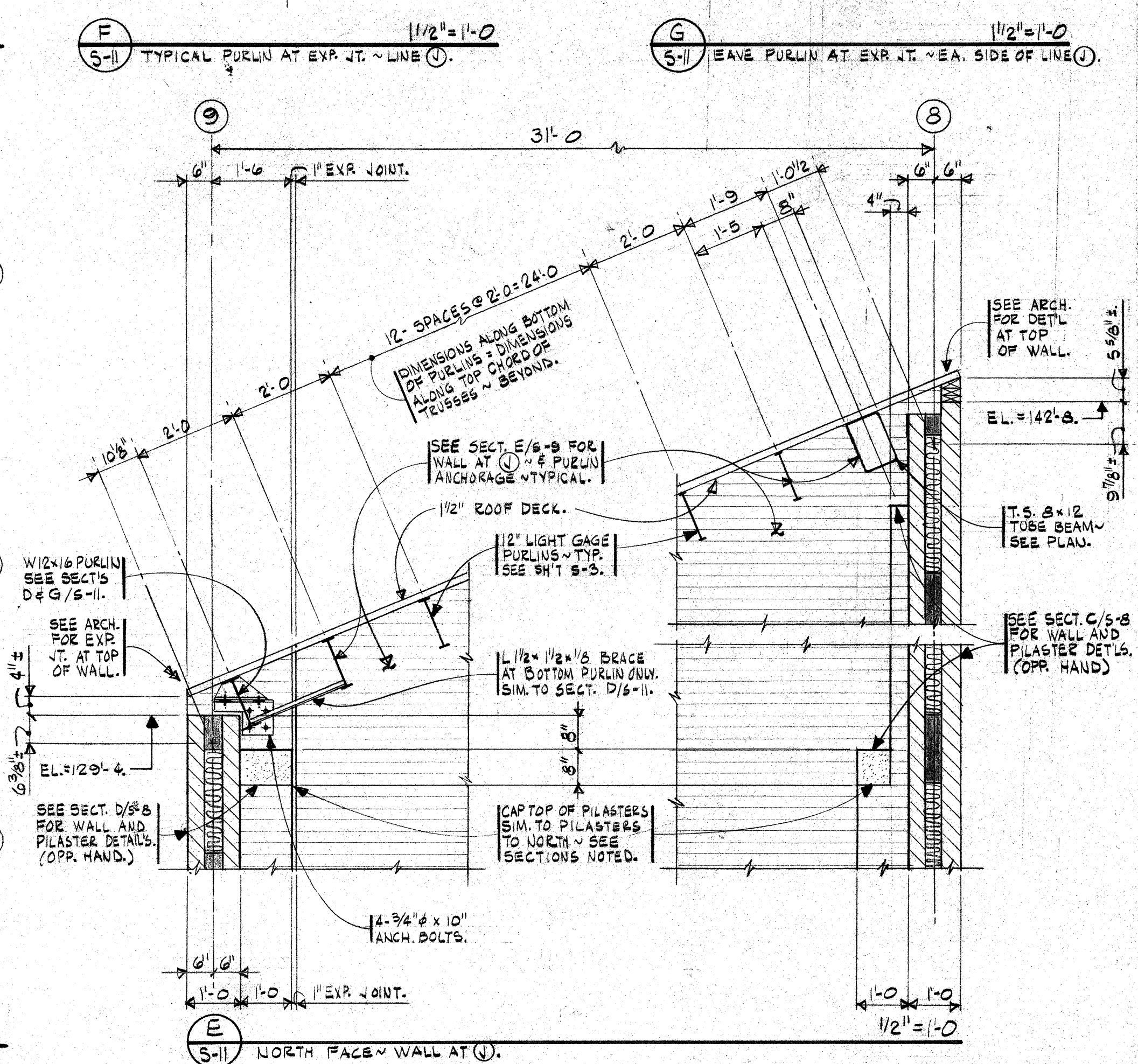




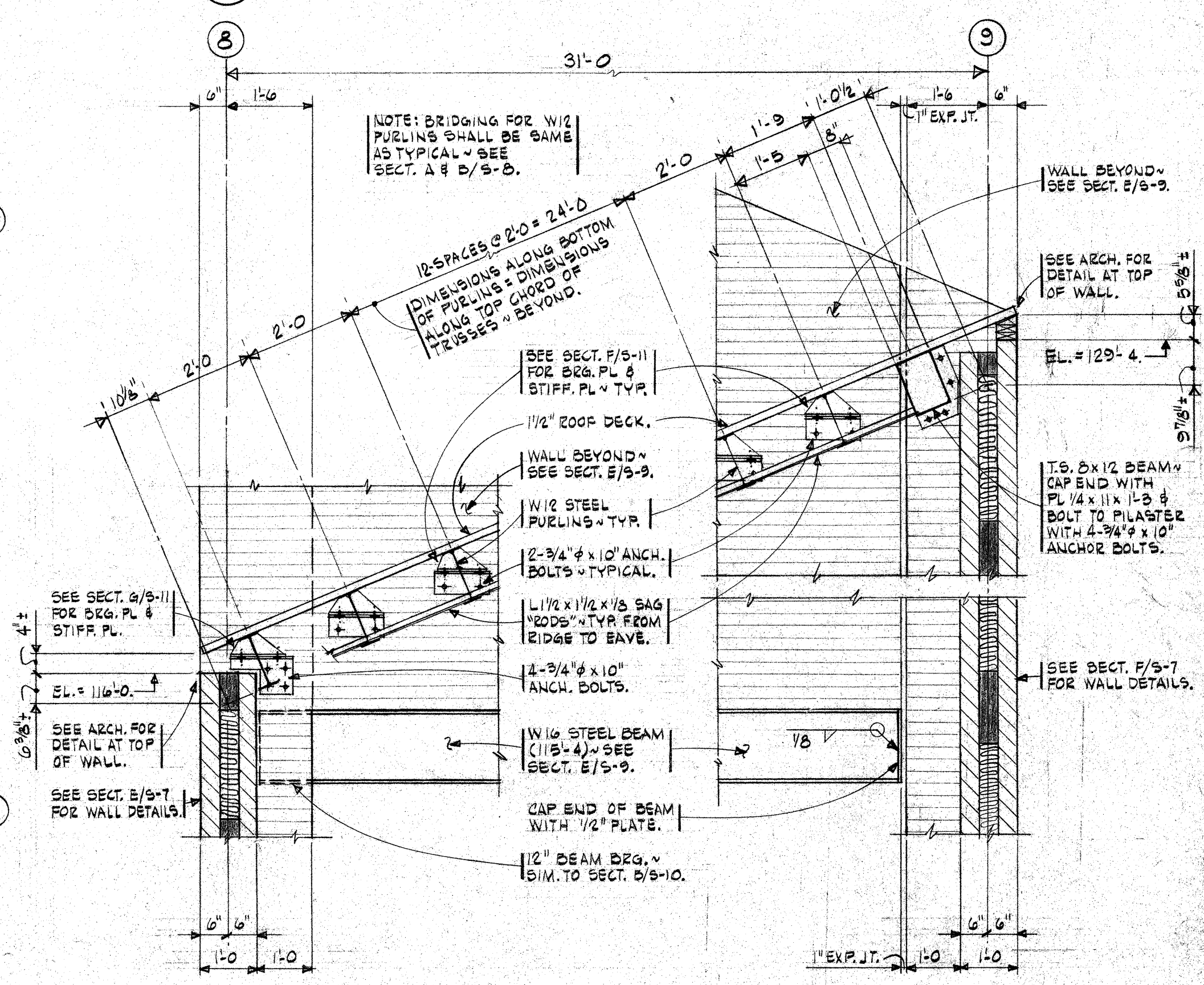
ARCADE MASONRY WALLS ~ SEE NOTE AT SECT. 4/5-11.



ARCADE MASONRY WALLS ~ SEE NOTE AT SECT. A/5-11.

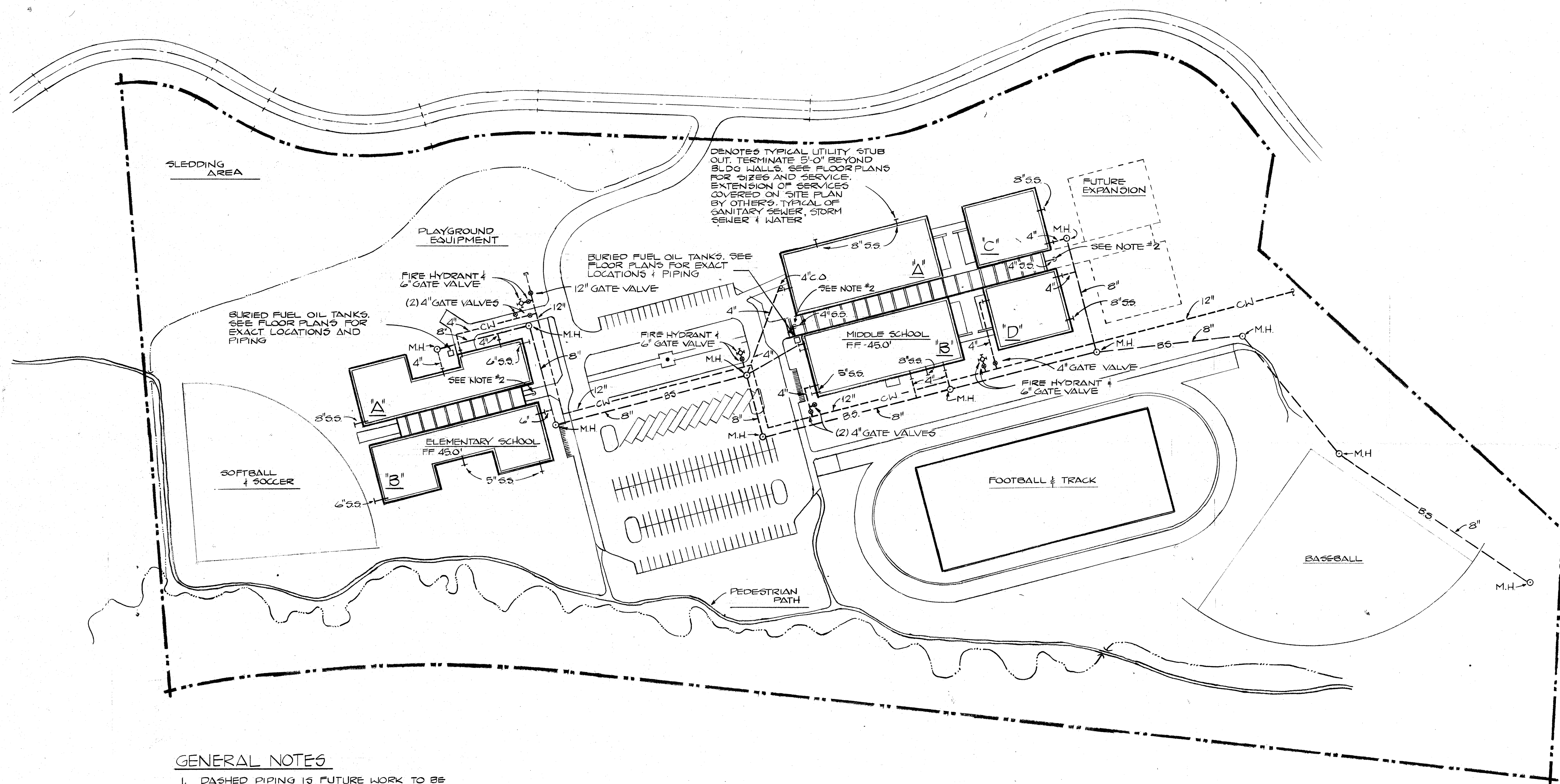


ARCADe MASONRY WALLS ~ LAYOUT OF EXPANSION JOINTS, TYPICAL REINFORCING AND ADJACENT MEMBERS ~ SEE ARCH. FOR CONTROL JOINTS & LOCATIONS ~ SEE SECT. H/S-4 FOR TYPICAL PILASTER REINFORCING.



5-11 SOUTH FACE ~ WALL AT (J)





#### 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.

#### SITE PLAN

SCALE 1"=50'0"

LEGEND	
TCOD	TEMPERATURE CONTROL DAMPER
TCOAD	TEMPERATURE CONTROL OUTSIDE AIR DAMPER
TCRAD	TEMPERATURE CONTROL EXHAUST AIR DAMPER
	TEMPERATURE CONTROL RETURN AIR DAMPER
	THERMOSTAT
	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
	PIPE ANCHOR
PA	TOTAL DYNAMIC HEAD
TDH	STATIC PRESSURE IN INCHES WATER COLUMN
SPIN H <sub>2</sub> O	PITCH DOWN IN DIRECTION OF ARROW
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
V	VENT PIPING
VTR	VENT THROUGH ROOF
RD	ROOF DRAIN
W	WASTE PIPING (ABV. FLR.)
BD	BUILDING DRAIN (BEL. FLR. IN BLDG.)
BS	BUILDING SEWER (BEL. GRADE OUTSIDE BLDG.)
SS	STORM SEWER
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
G	GAS PIPING
SCO	SURFACE CLEANOUT
FCO	FLOOR CLEANOUT
WCO	WALL CLEANOUT
LCO	LINE CLEANOUT
FD	FLOOR DRAIN
CI	CAST IRON
SA	SHOCK ABSORBER
INVEL.	INVERT ELEVATION
HWC	HOT WATER CIRC.
ABV	ABOVE
AF	ABOVE FINISHED FLOOR
M-H	MANHOLE
PH	FIRE HYDRANT
FS	FLOOR SINK
MTD	MOUNTED
ADL	ROOF DRAIN LEADER
	1" THICK DUCT LINER

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. 7908  
DRAWN J.E.H.  
CHECKED D.P.R.  
DATE MAY 8, 1980  
REVISED

DRAWING NUMBER

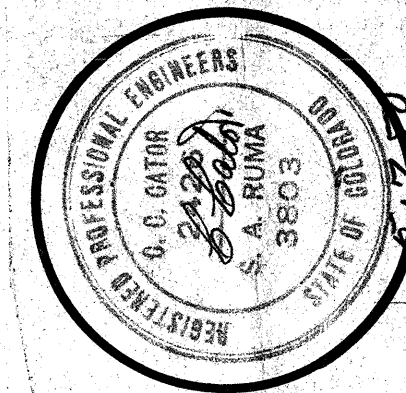
M1

OF 2 DRAWINGS

STEAMBOAT SPRINGS SCHOOL DISTRICT RE-2  
COLORADO  
SSMS  
STEAMBOAT SPRINGS



# SMS



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

20  
JOB NO. 7908  
638B  
DRAWN J.W.H  
CHECKED D.P.R  
DATE MAY 8, 1980  
REVISED \_\_\_\_\_

# M2

8 DRAWING

① EXPLOSION PROOF MOTOR AND FAN CONSTRUCTION.  
PROVIDE BACK DRAFT DAMPER ON ALL IN-LINE FANS.

① PROVIDE CONTROL GRIDS ONLY WHERE SPACE NOT AVAILABLE FOR TEE. SEE DETAIL.  
② PROVIDE CONTROL GRIDS ONLY WHERE SPACE NOT AVAILABLE FOR PLENUM. SEE DETAIL.

- ① DERATE GAS BURNER FROM 400 MBH TO 250 MBH.
- ② PROVIDE FILTER-MIX BOX WITH 2" THICK "FARR" 30/30 FILTERS OR EQUAL AT MAX. 250 F.P.M. FACE VELOCITY.
- ③ PROVIDE ASHRAE NO. II ECONOMY CYCLE
- ④ PROVIDE ASHRAE NO. II ECONOMY CYCLE WITH NIGHT SET BACK REQUIRED.
- ⑤ SEE TEMPERATURE CONTROL SPECIFICATIONS FOR OTHER REQUIREMENTS.
- ⑥ PROVIDE SOLID STATE ELECTRONIC GAS MODULATION.

- ① MINIMUM 2 STAGES OF HEATING.
- ② MINIMUM 3 STAGES OF HEATING.
- ③ WIRE (2) HEATING ELEMENTS ONLY.
- ④ PROVIDE THRU-AWAY TYPE FILTERS.
- ⑤ PROVIDE ASHRAE NO. II ECONOMY CYCLE.
- ⑥ NIGHT SET BACK REQUIRED.
- ⑦ DUCT DISCHARGE THERMOSTAT REQUIRED.
- ⑧ SEE TEMPERATURE CONTROL SPECIFICATIONS FOR OTHER REQUIREMENTS.

① PROVIDE 1/2 H.P., 120 V/1 PH./60 CYC. VACUUM PUMP W/WALL MOUNTING BRACKET AND WEATHERPROOF COVER.

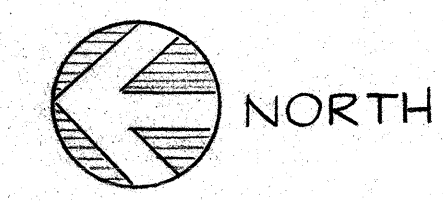
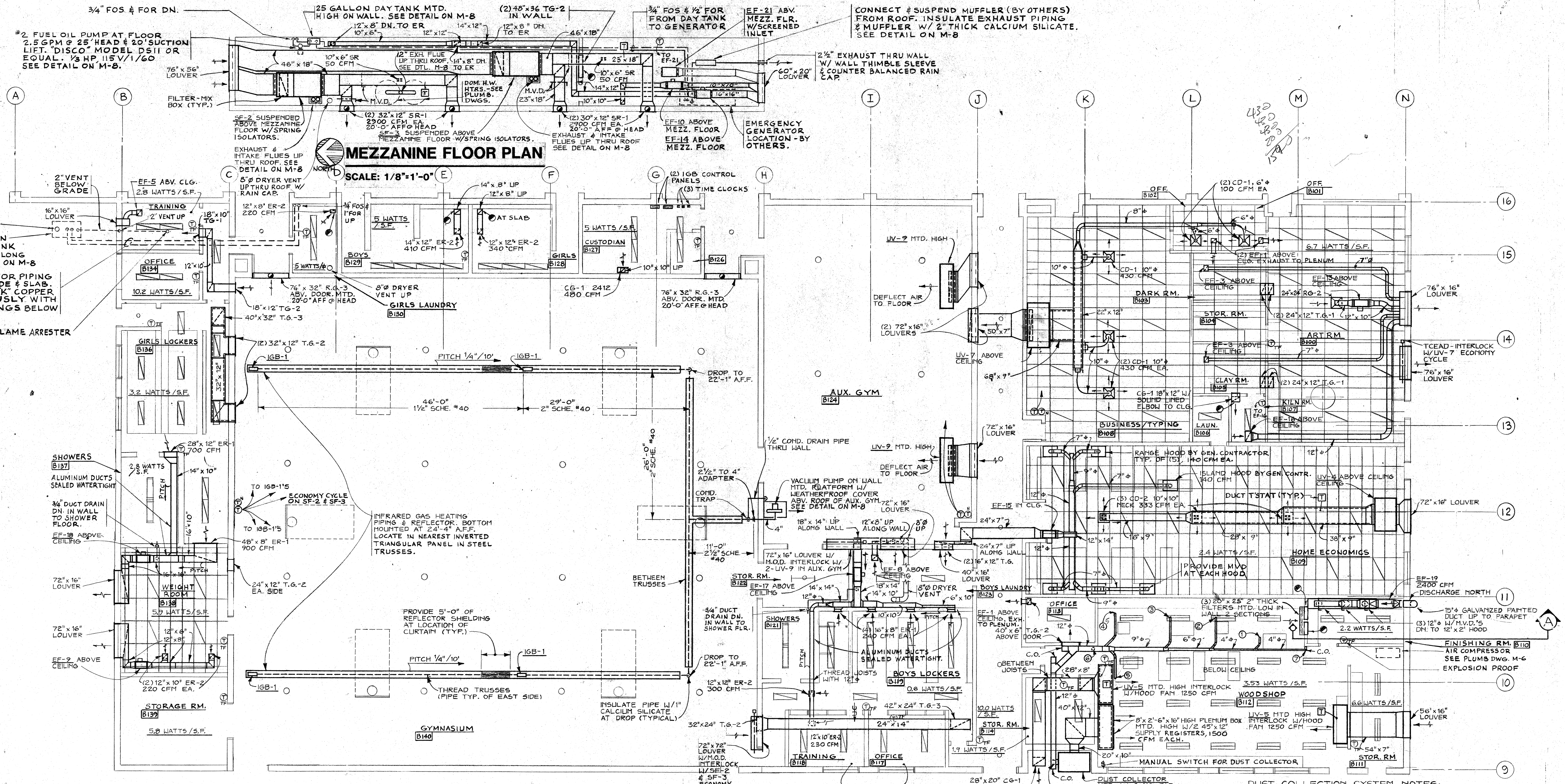
SHOCK ABSORBER SCHEDULE			
DESIGNATION	MANUFACTURER	MODEL NO.	CONNECTION SIZE
SA-1	"SMITH"	5005	3/4"
SA-2	"SMITH"	5010	1"
SA-3	"SMITH"	5020	1"

ELECTRIC HEATER SCHEDULE										
DESIGNATION	OPERATING RPM	GPM AT OPERATING RPM	MOTOR HP OF WATTAGE	AVAILABLE SPEEDS	BTU/HR @ 60° F AT	GPM OF 200° F WATER	LB/HR STEAM @ 2 psi	KW VOLTAGE PHASE	MANUFACTURER AND MODEL NO.	INSTALLATION ARRANGEMENT
UH-1	1600	350	1/100	1	17,000	—	—	5.0 460/60/3	CHROMALOX MUH-05-04	SUSPENSE MMB-5





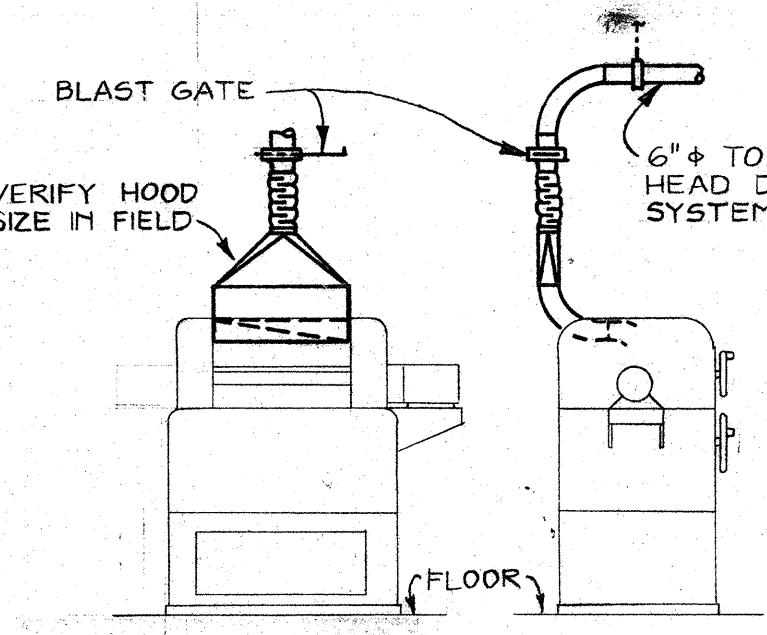




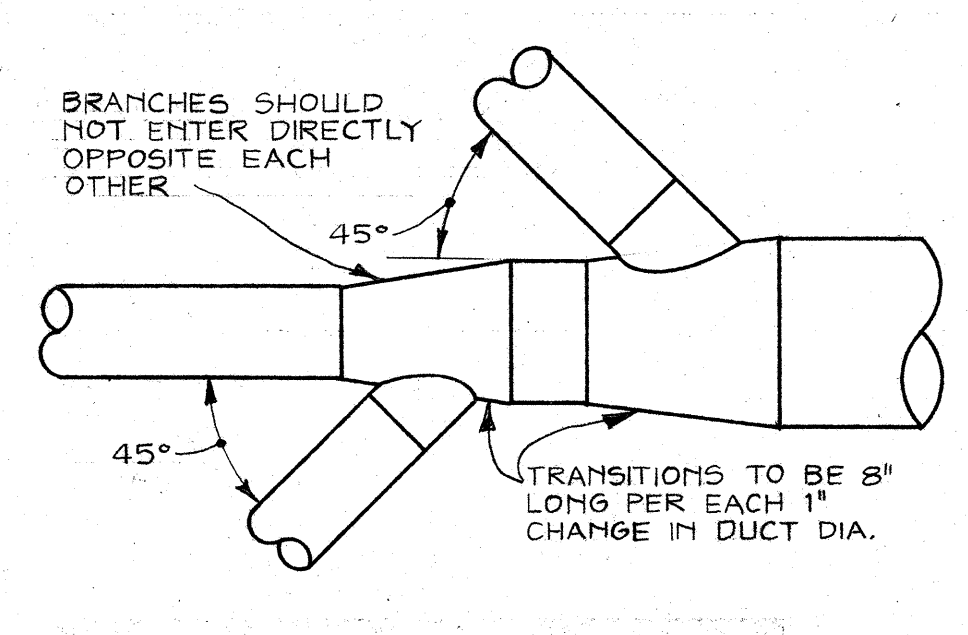
**QUADRANT "B" FLOOR PLAN**  
SCALE: 1/8"=1'-0"

- NOTES**
- 1- ALL FLOOR HEAT (T) TO ALSO HAVE (N) ADJACENT
  - 2- INSULATE ALL CONCEALED OUTSIDE AIR DUCTS WITH 1" FIBERGLASS BLANKET.
  - 3- ALL DUCT DIMENSIONS SHOWN ARE O.D. OF SHEETMETAL

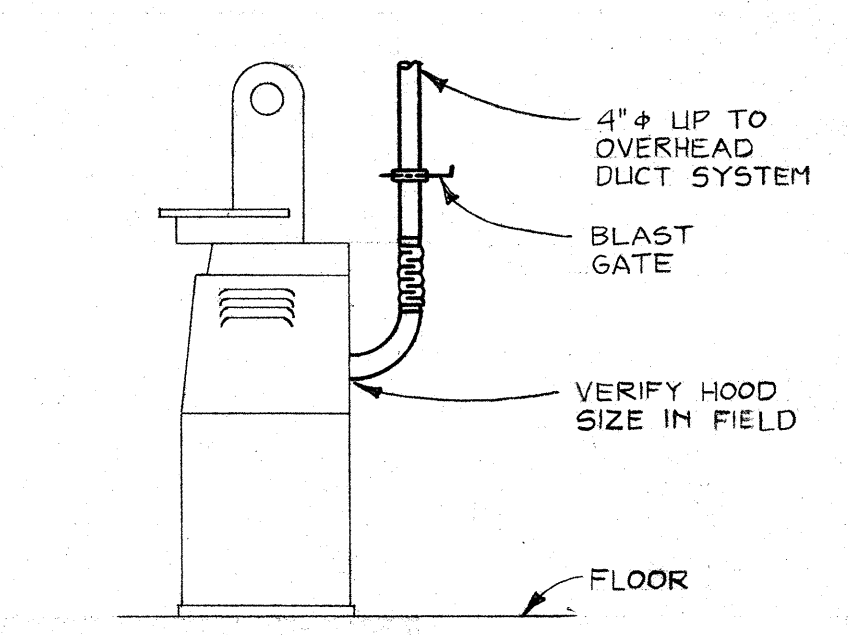
- DUST COLLECTION SYSTEM NOTES:**
- 1 4" x 4" DN. TO TABLES.
  - 2 4" x 4" DN. TO JIGSAW.
  - 3 5 1/2" x 4" DN. TO BANDSAW.
  - 4 4" x 4" DN. TO SANDER.
  - 5 6" x 4" DN. TO UNPLANE.
  - 6 6" x 4" DN. TO FLOORSWEEP.
  - 7 4" x 4" DN. TO FLOORSWEEP.



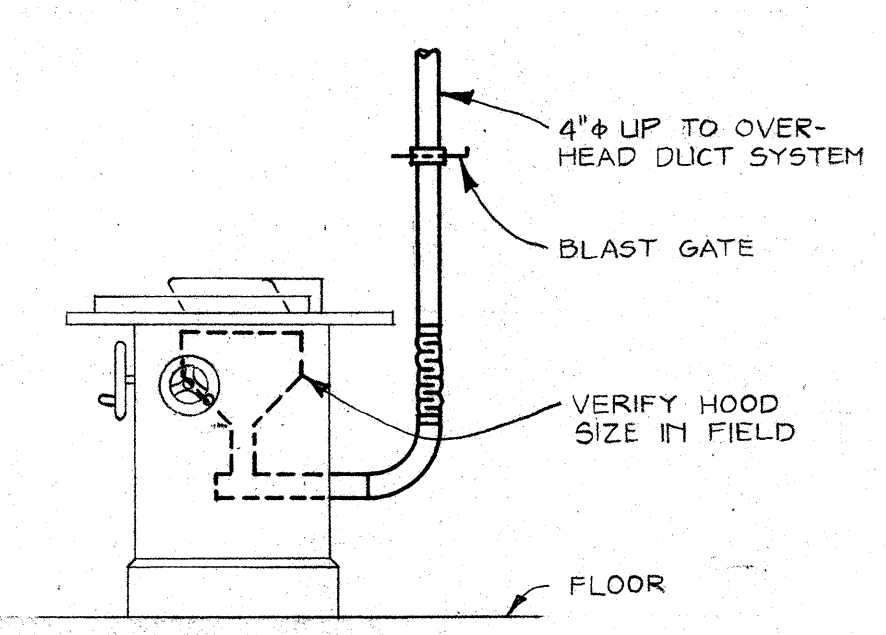
**FLOORSWEEP DETAIL**  
SCALE: NONE



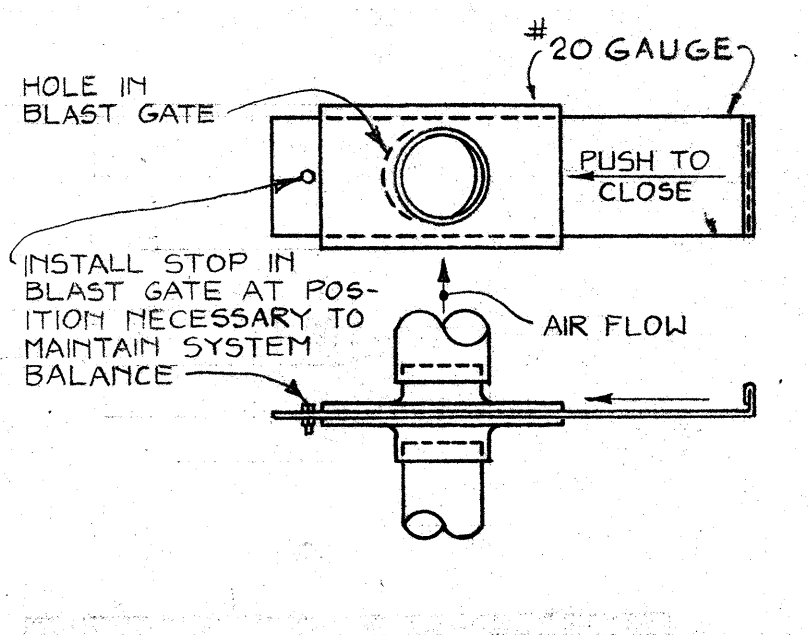
**BRANCH ENTRY DETAIL**  
SCALE: NONE



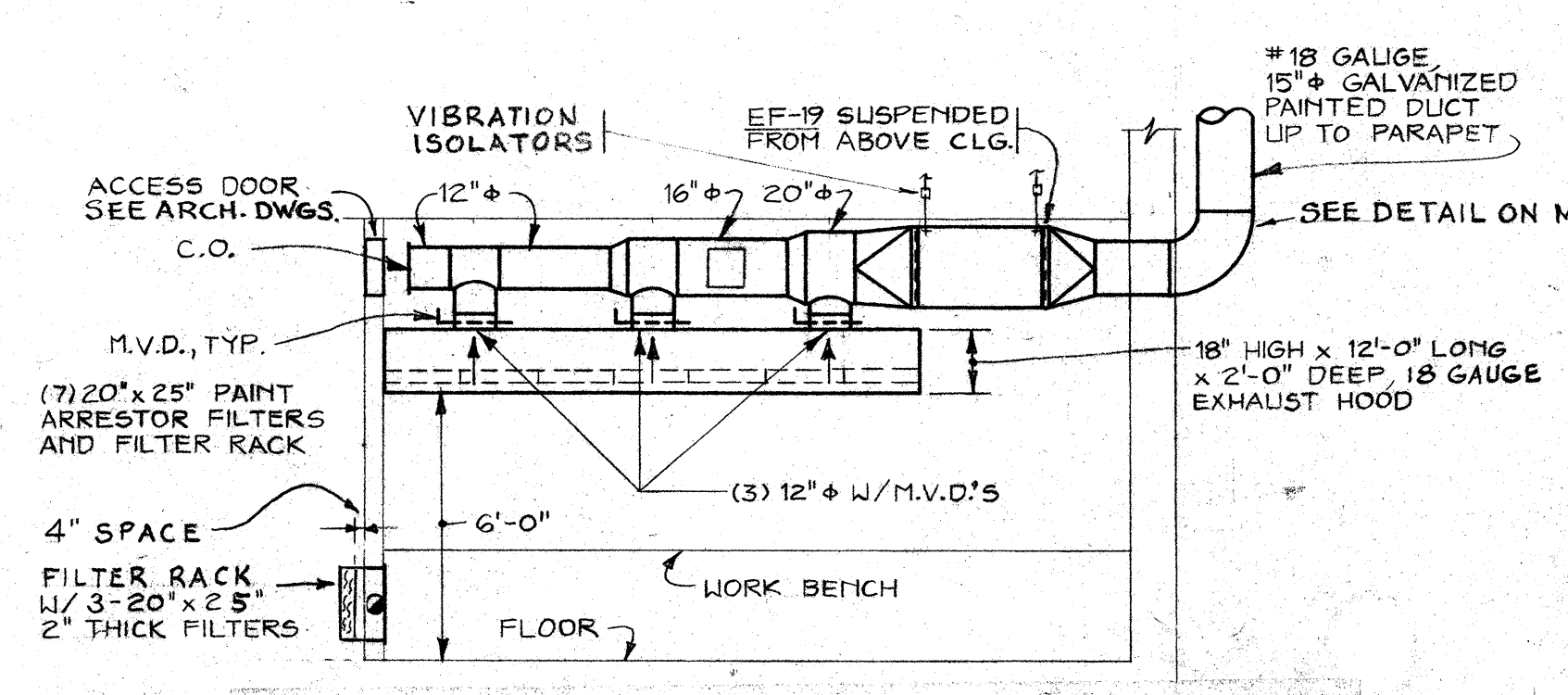
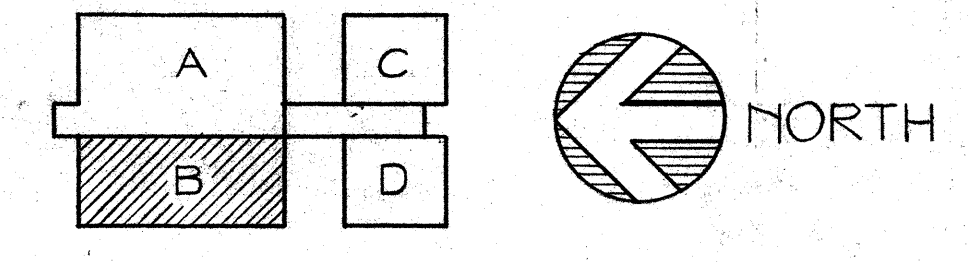
**BELT SANDER**  
SCALE: NONE



**TABLE SAW**  
SCALE: NONE



**BLAST GATE DETAIL**  
SCALE: NONE



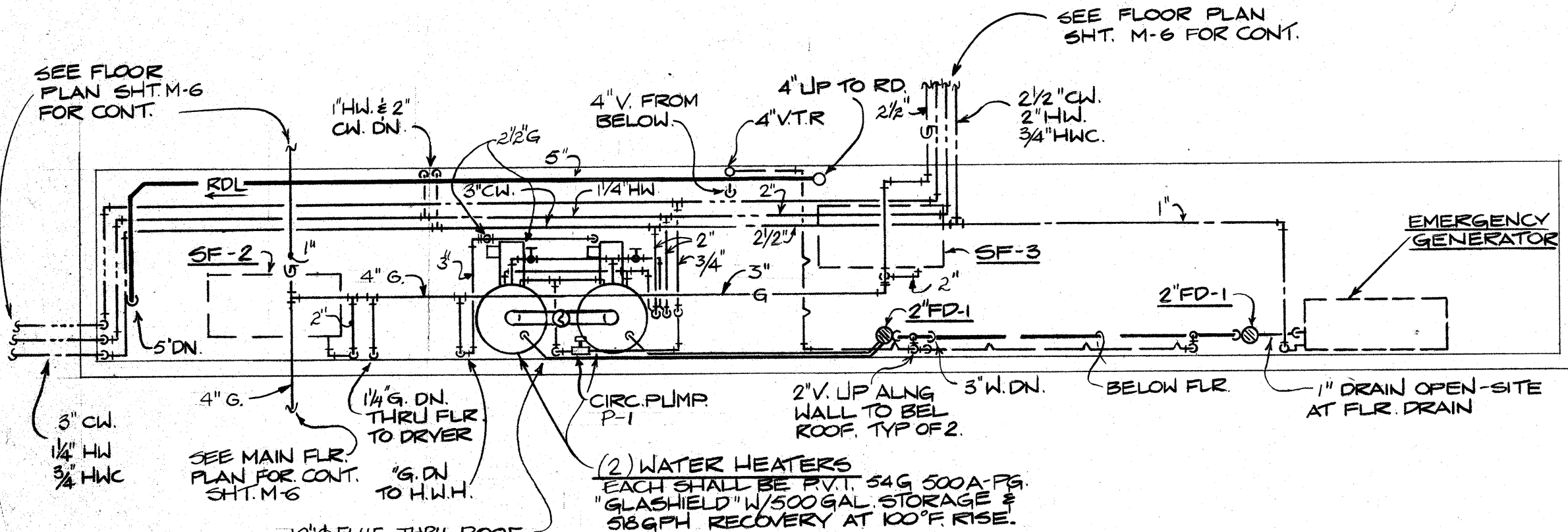
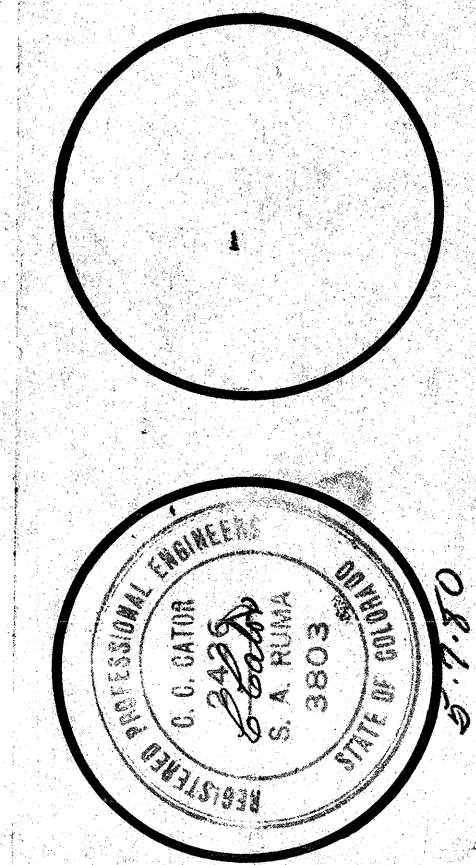
**SECTION A-A PAINT SPRAY BOOTH DETAIL**  
SCALE: 1/4"=1'-0"



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

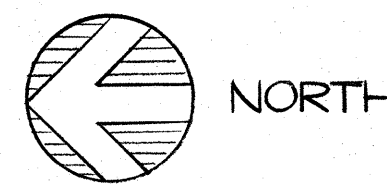
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs  
Cator, Runa & Associates, Co., Mechanical Engineers, Denver  
Garland & Partners, Inc., Electrical Engineers, Denver





MEZZANINE FLOOR PLAN-PLUMBING

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

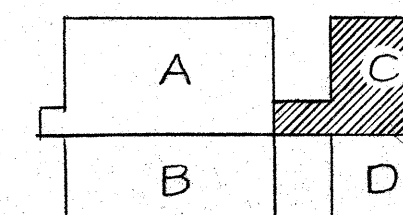
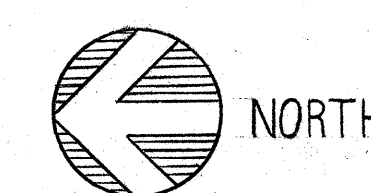


QUADRANT "C" FLOOR PLAN

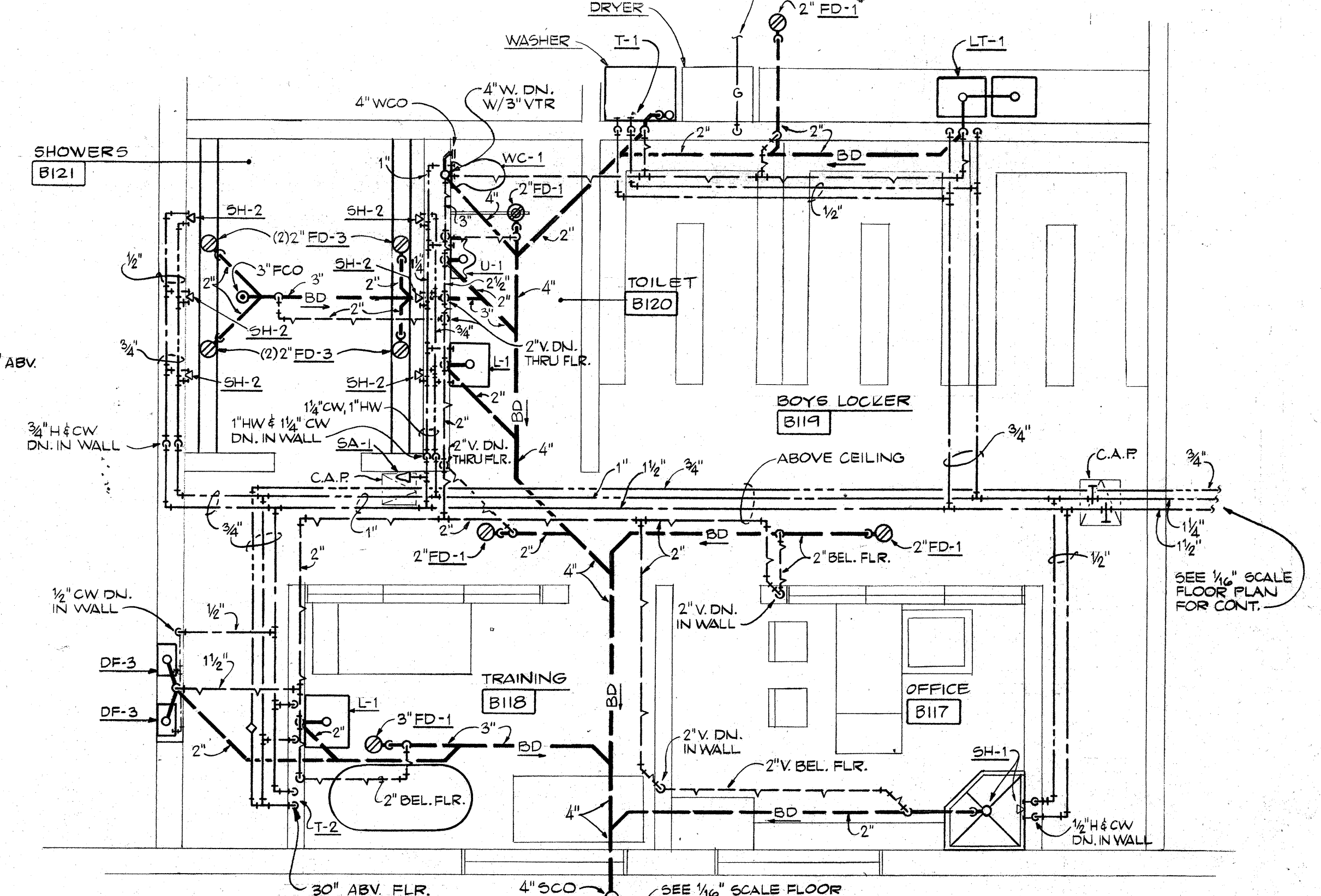
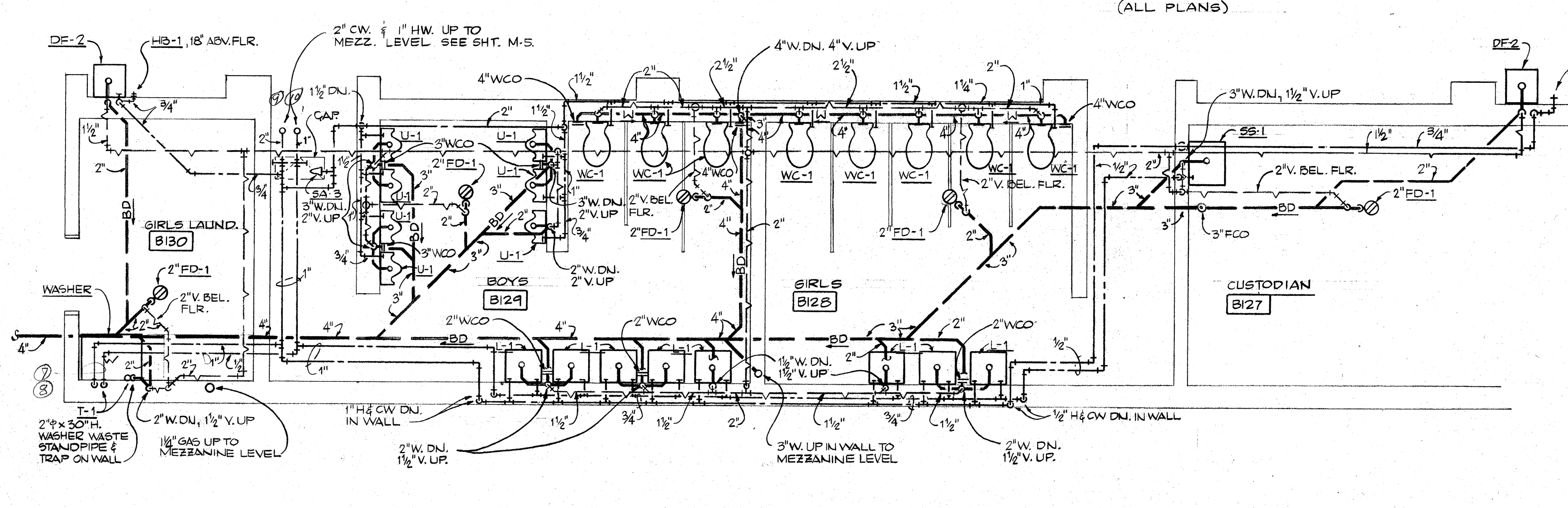
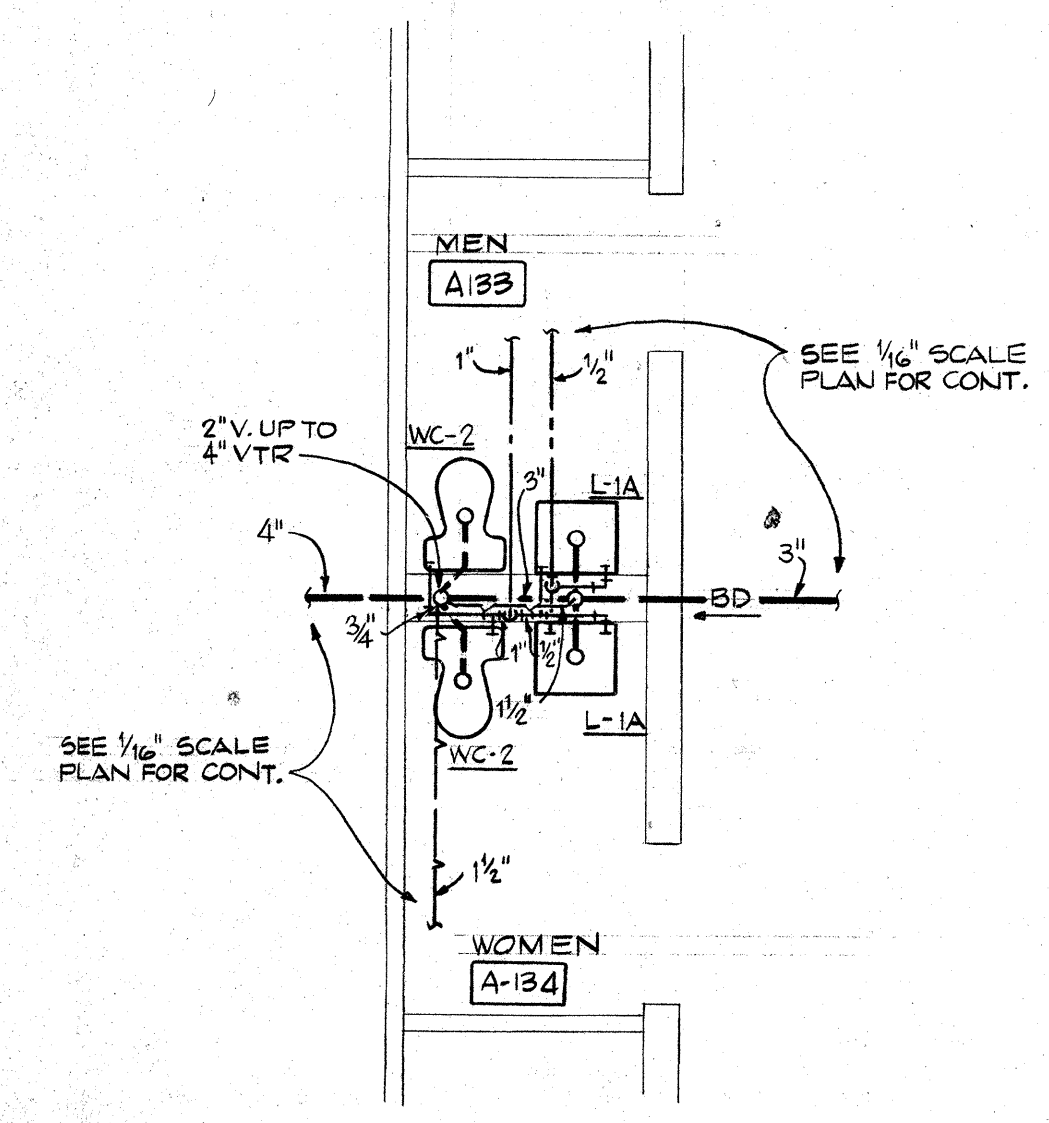
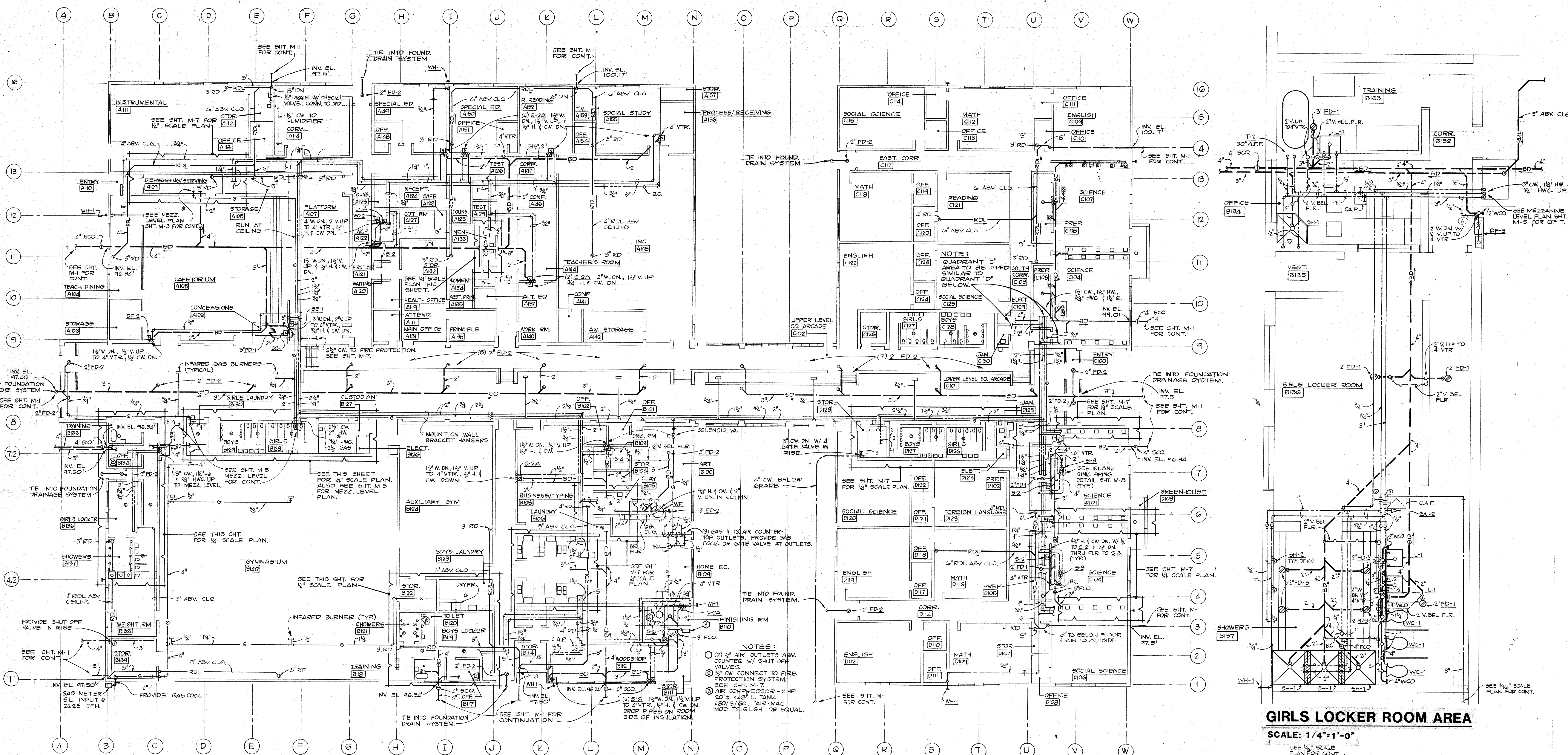
SCALE: 1/8"=1'-0"

- GENERAL NOTES:
1. ALL FLOOR HEAT  $\odot_{TF}$  TO ALSO HAVE  $\odot_{N}$  ADJACENT.
  2. INSULATE ALL OUTSIDE AIR DUCTS W/ 1" THICK FIBERGLASS BLANKET INSULATION.
  3. ALL DUCTWORK DIMENSIONS SHOWN ARE ACTUAL SHEETMETAL OUTSIDE DIMENSION REQUIREMENTS.

NOTE: QUADRANT "D" IS TYPICAL OF QUADRANT "C" EXCEPT OPPOSITE HAND. ARCADE IS SHOWN ON QUADRANT "C" ONLY.

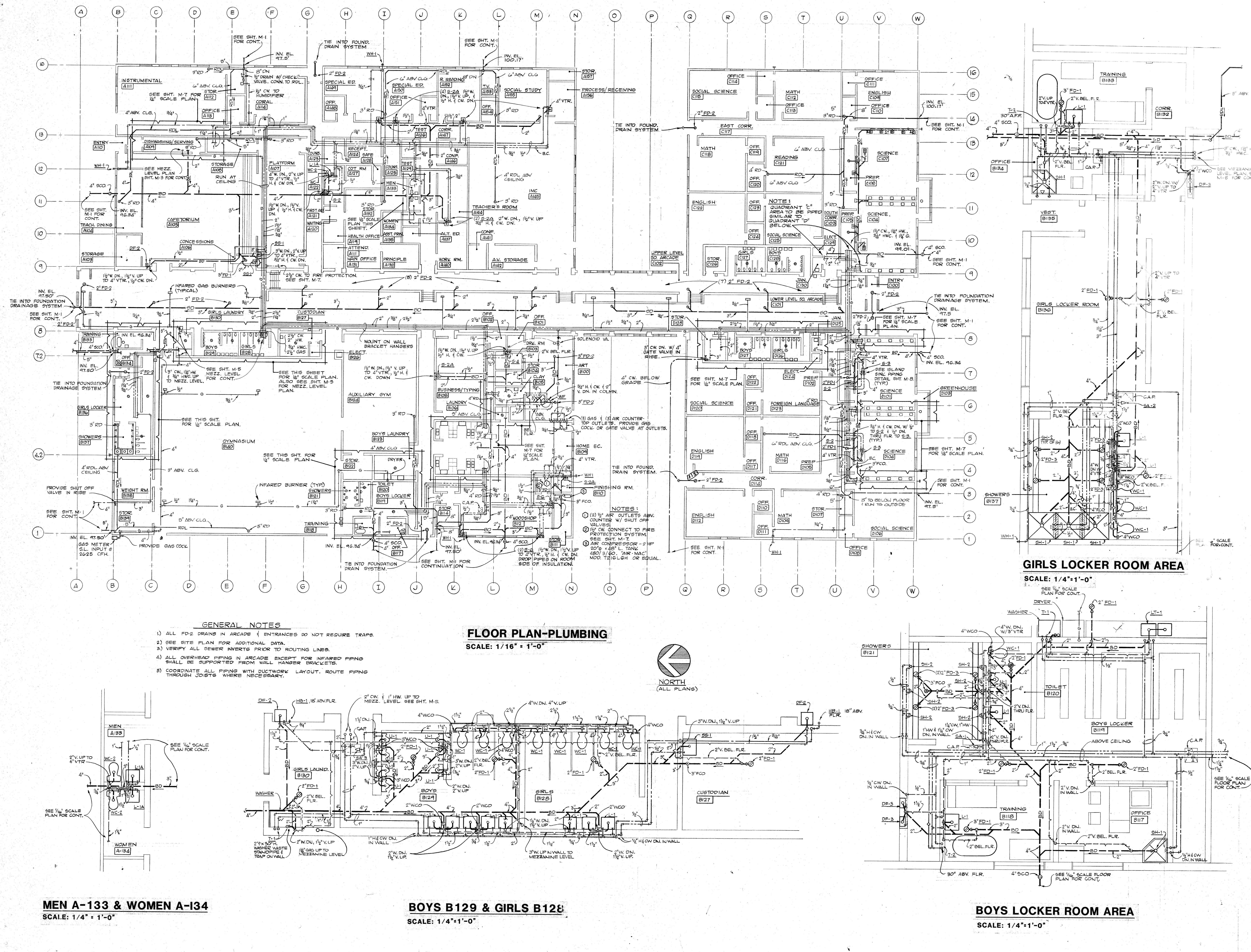




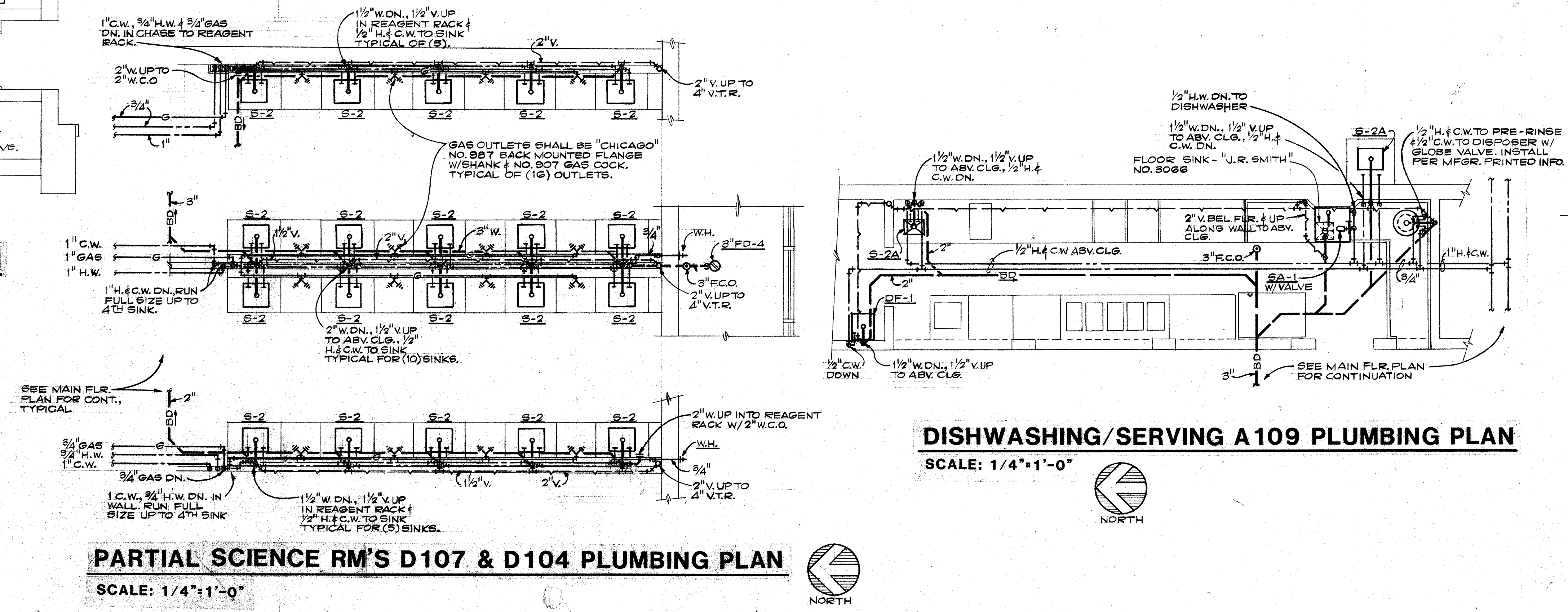
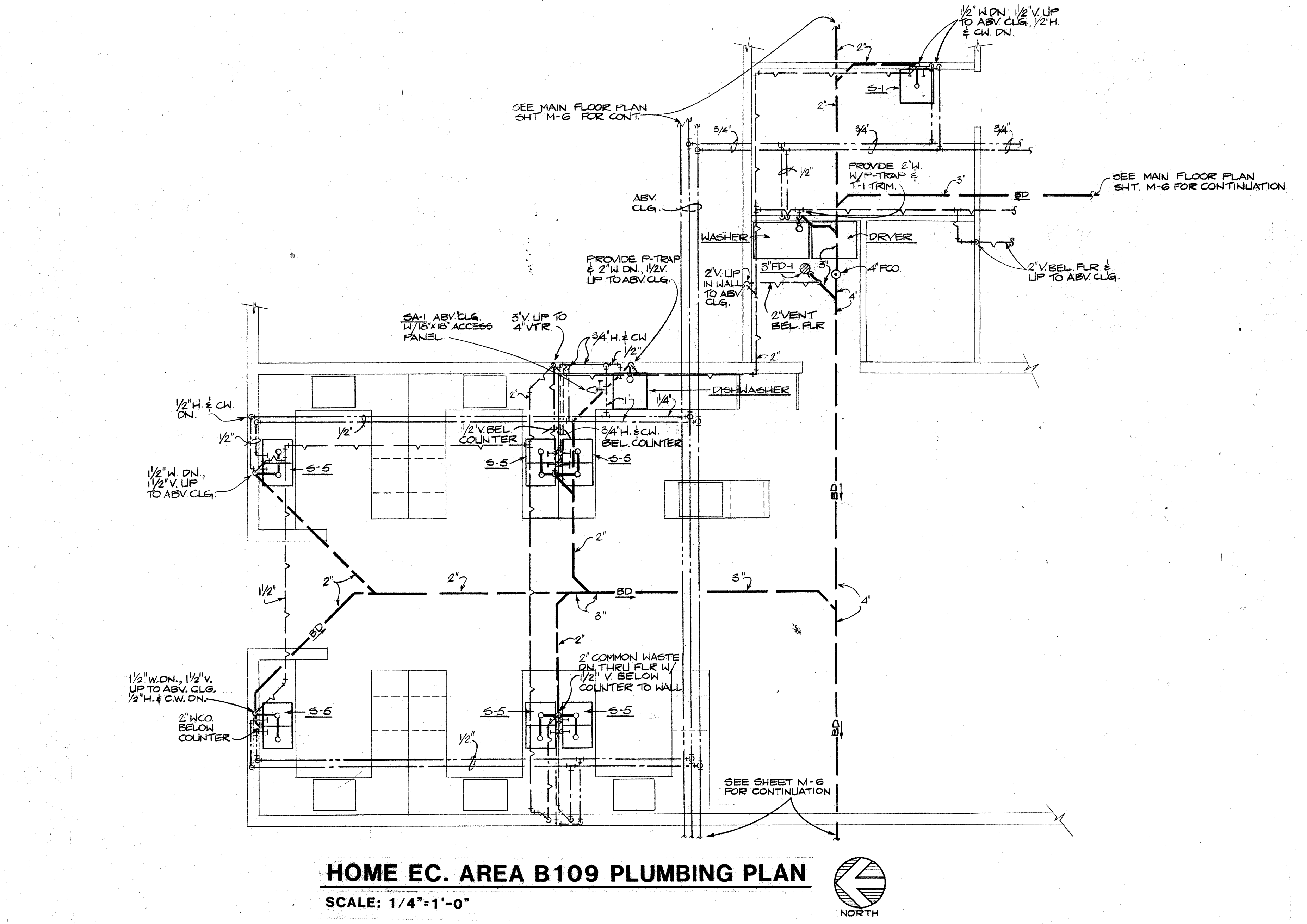
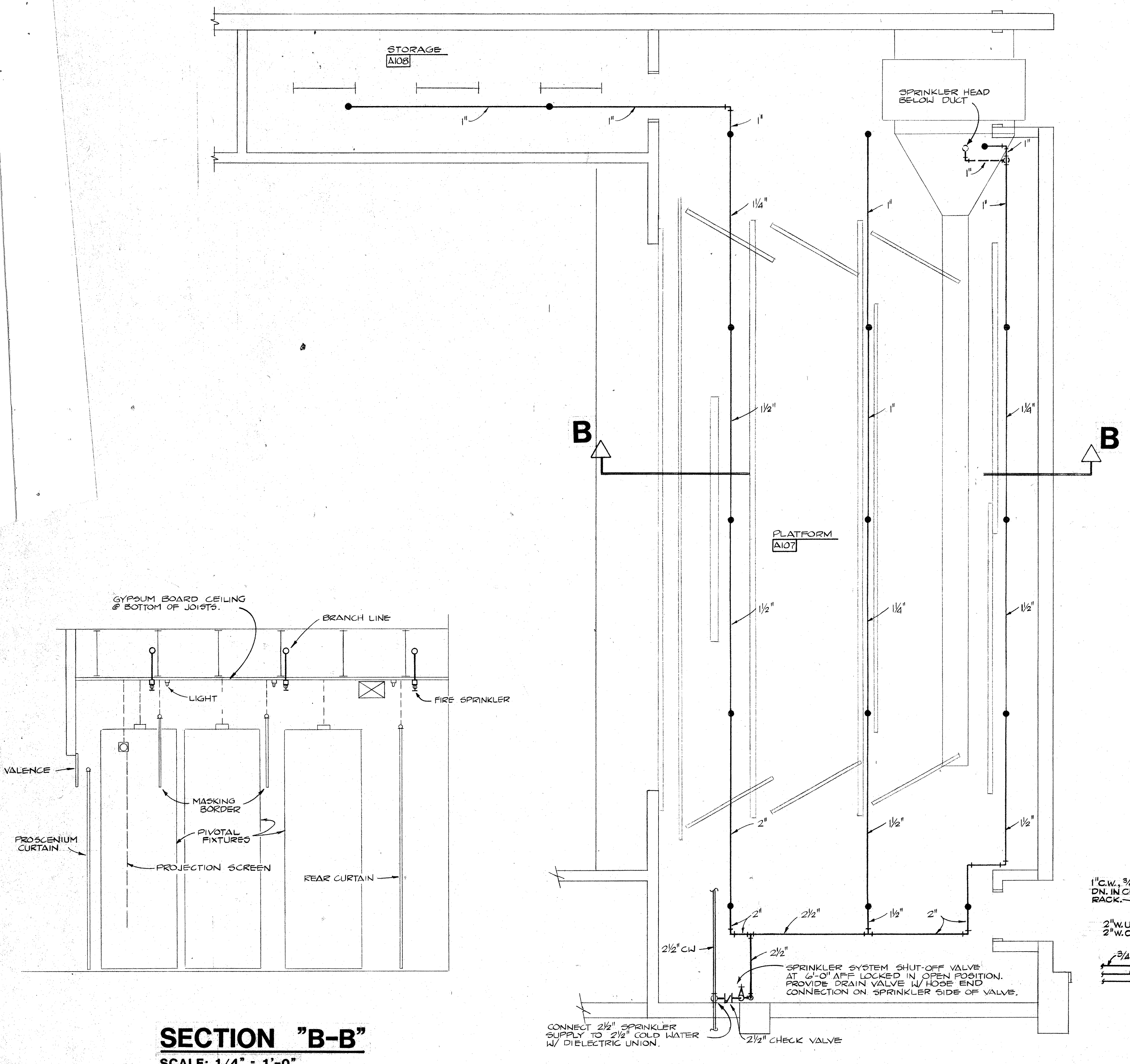
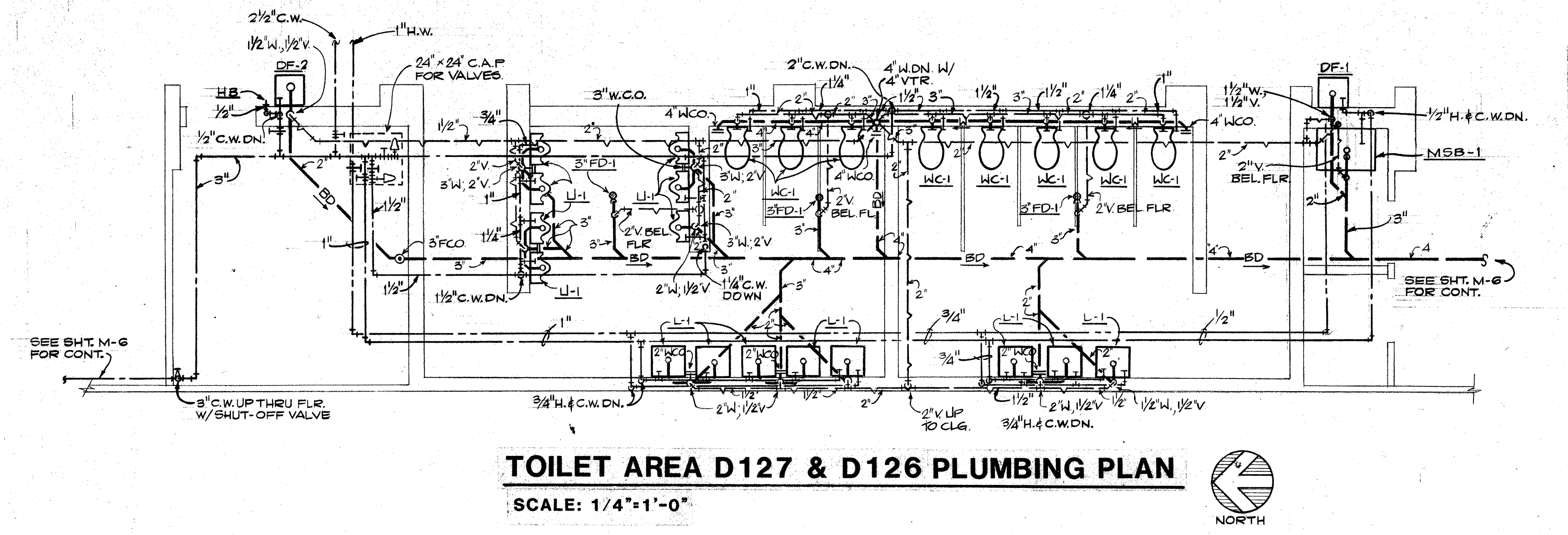
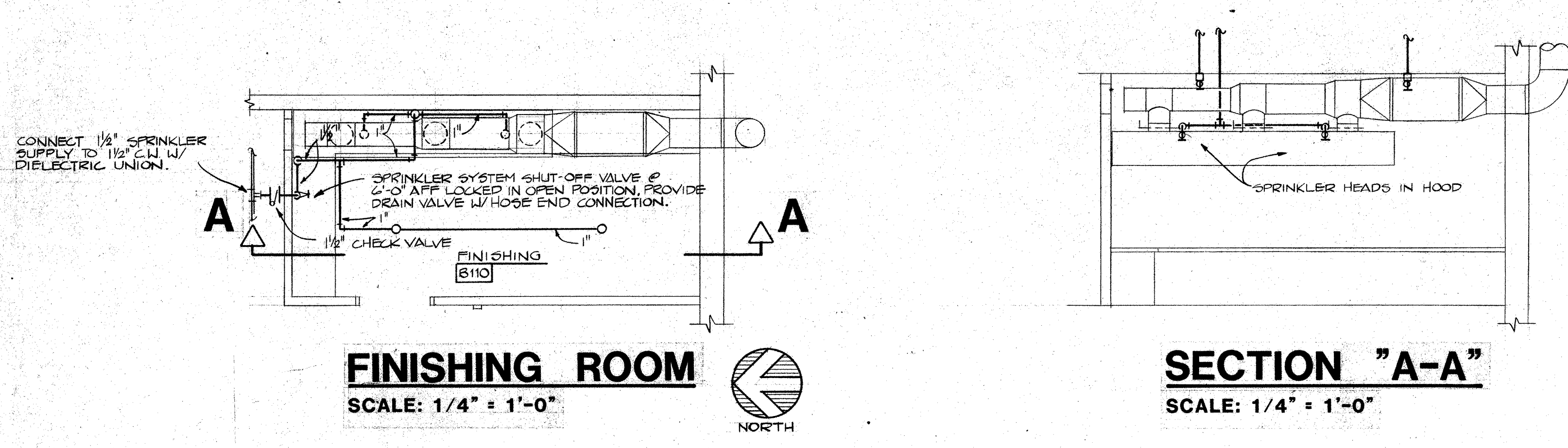


**GIRLS LOCKER ROOM AREA**  
SCALE: 1/4" = 1'-0"













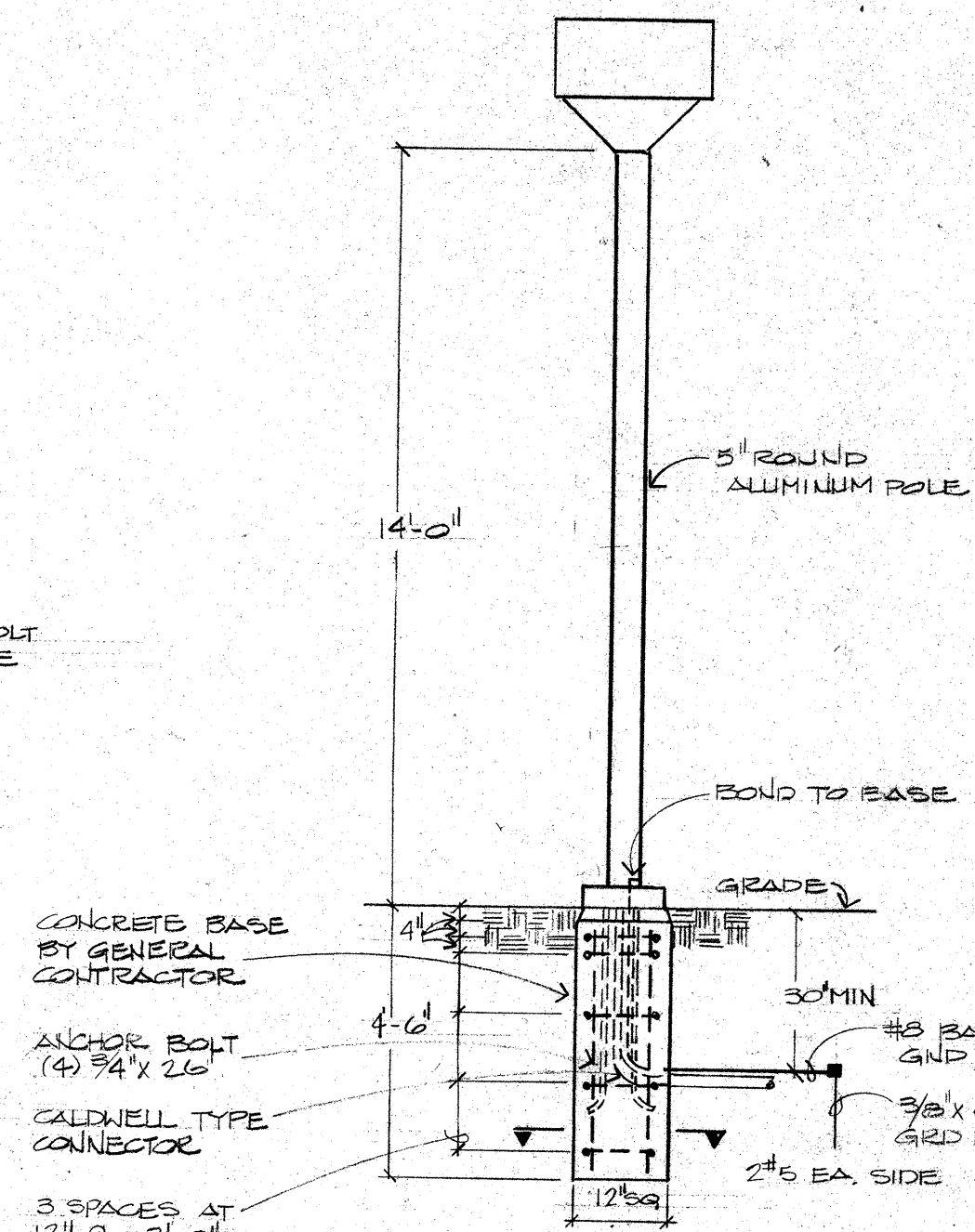
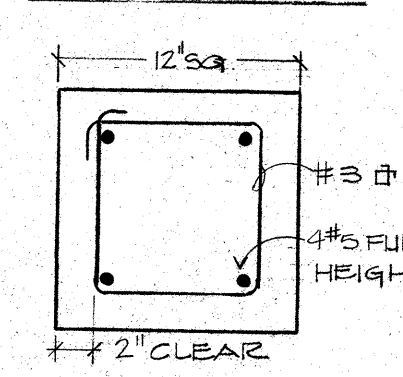
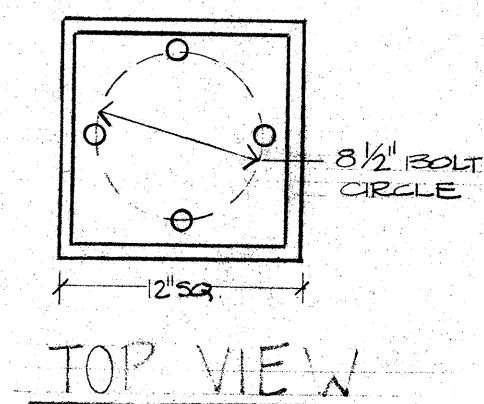
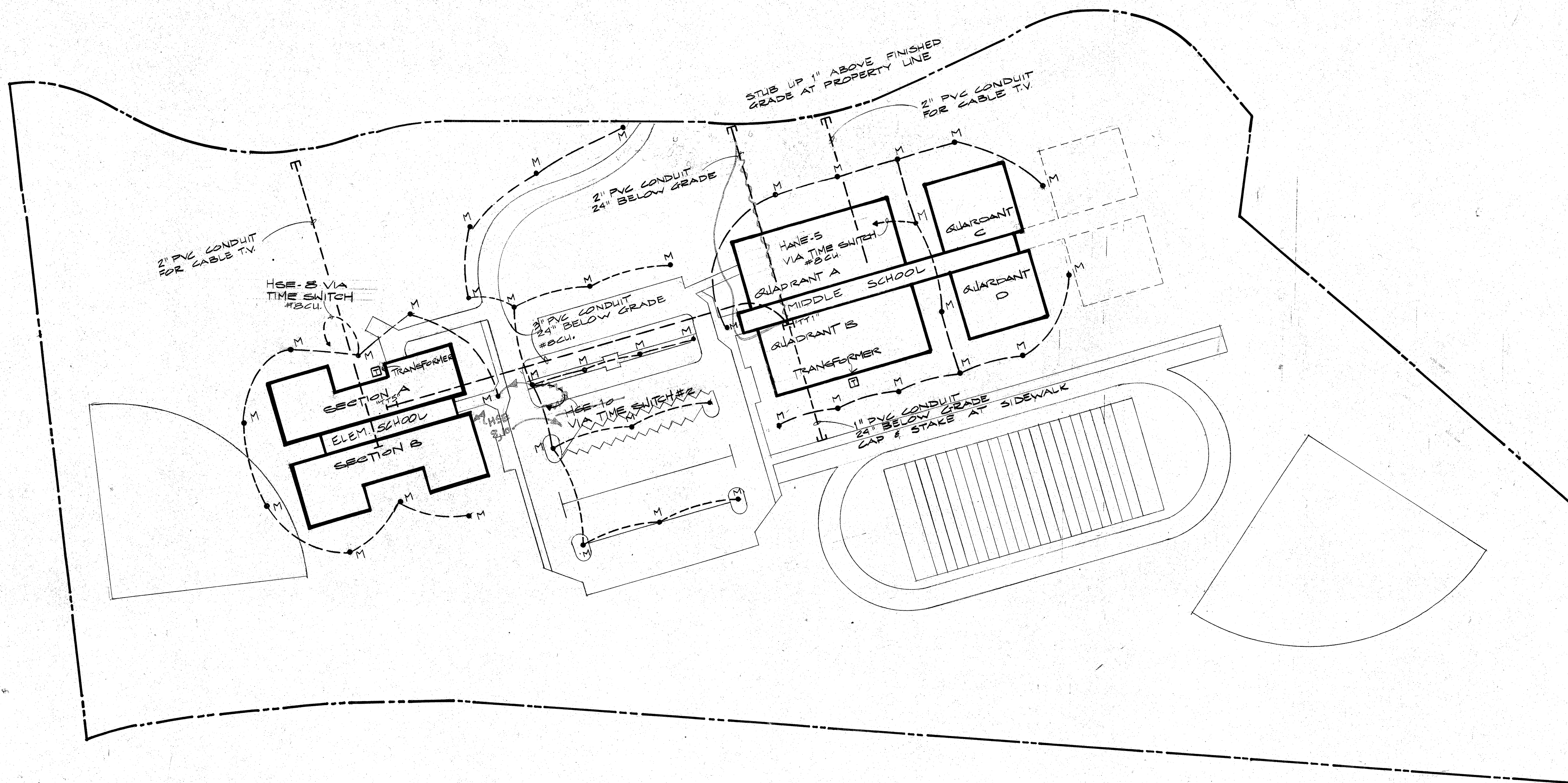
Robert Sanford Ralston Associates, Architects, Steamboat Springs  
Muchow & Partners, Architects, Denver

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. 711011111  
DRAWN ESK  
CHECKED PLW  
DATE MAY 2, 1980  
REVISED

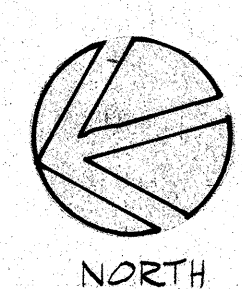
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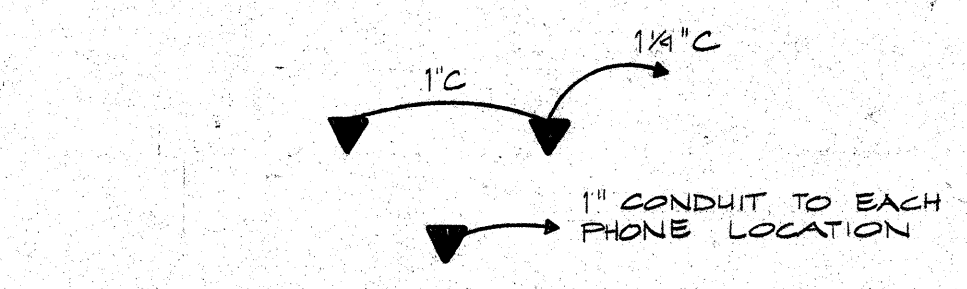
POLE MOUNTING DETAIL (TYPE 'M')  
NO SCALE

ELECTRICAL DRAWING SHEET E-1

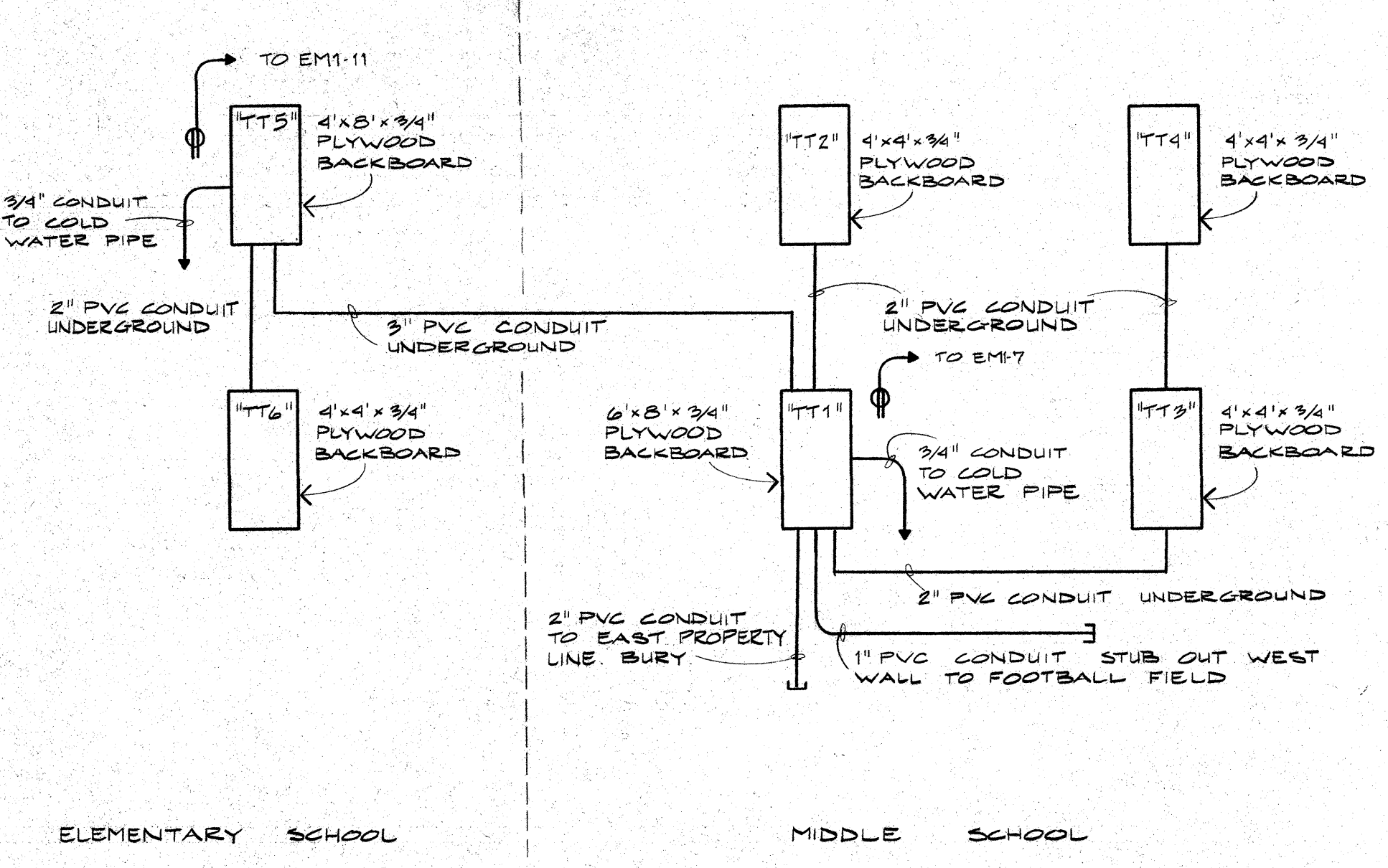
1. FIXTURE SCHEDULE: THE ELECTRICAL CONTRACTOR SHALL SUBMIT AS AN ALTERNATE BID FIXTURE TYPE "A" COLUMBIA #P2-14039-4236.
2. AT BOTTOM OF FIXTURE SCHEDULE, NOTE NUMBER 2 SHALL READ "TYPE 'F' AND 'D' FIXTURES".
3. DELETE ALL REFERENCE TO TIME SWITCHES. CIRCUITS HANE-5 SHALL BE ROUTED VIA LIGHTING CONTRACTOR. REFERENCE ITEM 2 OF SHEET E-2.



ELECTRICAL SITE PLAN  
SCALE: 1" = 100'-0"



TYPICAL PHONE CONNECTION



TELEPHONE ONE-LINE DIAGRAM  
N.T.S.

KEY # LAMP CODE	DESCRIPTION OF LUMINAIRE	FINISH	METHOD	RECESS DEPTH	CELLING TYPE	MEGR	CATALOG #	VOLT
A 3 P40CW	2'x4' FLUORESCENT W/PARABOLIC LOUVER	STANDARD	RECESSED	6-3/8"	GRID "T"	COLUMBIA	45490-43-243	277
B 2 P40CW	1'x4' FLUORESCENT W/ACRYLIC WRAPAROUND LENS	STANDARD	SURFACE		GYP. BD.	PRUDENTIAL	P-1660-48-15-15A	277
C 2 P40CW	4' STRIP	WHITE	SURFACE		GYP. BD.	PRUDENTIAL	PL22-48KS	277
C1 4 P40CW	8' STRIP	WHITE	SURFACE		GYP. BD.	PRUDENTIAL	PL22-96-	277
D 1 ME400	2'x2' R/PARABOLIC LOUVER	STANDARD	RECESSED	15/5"	GYP. BD.	WIDELITE	SE4M-400-C-277-12-1-185	277
D1 1 ME400	2'x2' R/PARABOLIC LOUVER	STANDARD	RECESSED	15.5"	GRID "T"	WIDELITE	SE4M-400-C-277-12-1-185	277
E 1 H-100	6" DIA DOWNLIGHT W/BLACK GROOVED Baffle	BLACK	RECESSED	13-5/8"	GYP. BD.	FRESCOLITE	1057H5-100MV-730	277
F 1 M400/DU/1 150/DC	HEXAGONAL SHAPED INDUSTRIAL HED UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING, COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY	STANDARD	PENDANT			WIDELITE	SE6M-400-450-277-14-1-120	277
F1 1 M400/DU/1 150/DC	HEXAGONAL SHAPED INDUSTRIAL HED UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING, COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY	STANDARD	PENDANT			WIDELITE	SE6M-400-450-277-14-1-120	277
F2 1 M400/DU/1 150/DC	HEXAGONAL SHAPED INDUSTRIAL HED UNIT WITH 23-1/4" HIGH DECORATIVE HOUSING, COMPLETE WITH GASKETED, HINGED LENS ASSEMBLY	STANDARD	PENDANT			WIDELITE	SE6M-400-450-277-14-1-120	277
G 2 F20T1	2' WALL BRACKET 9/UP & DOWN LIGHT	STANDARD	WALL			LIGHTOLIER	10237	277
H 1 150R/FL	8" DIA DOWNLIGHT W/BLACK ALUM. REFLECTOR	STANDARD	RECESSED	15-5/8"	GYP. BD.	FRESCOLITE	1227-986	277
J 2 P40CW	4' INDUSTRIAL W/WINE GUARD	STANDARD	SURFACE		GYP. BD.	WELLMAR	410-P-248 RS-400-4G HD	277
K 2 P40-16-CW	1'x4' MOTOR TIGHT W/ACRYLIC LENS	STANDARD	SURFACE		GYP. BD.	DAY-BRIGHT	7541-241-59	277
L 2 15A 1 200A	COMBIN. INC. & DRK. RM. SAFETY	STANDARD	RECESSED	6"	GYP. BD.	ALRGO	2058-3P	120
M 1 C10135	SINGLE HEAD CUT OFF LUMINAIRE W/TYPE 2 DISTRIBUTION ON ROUND POLE	MED BRONZE 14"	POLE			KIM	B1-402/MEC PBL41-5125 PBL/BLH303	277
N 1 M175/C/U	ENCLOSED & GASKETED W/BLACK REFLECTOR WALL BRACKET	DRK BRONZE BACK MID-WALL				HOLOPHANE	488-34-277-185	277
P 1 M250/C/U	EXPLOSION PROOF W/GLASS REFLECTOR	STANDARD	SURFACE			CROUSE-HINDS	WMN2C-250CE-RD70	277
R 2 50	SELF CONTAINED TWIN HEAD BATTERY LIGHT	BLACK	SURFACE WALL			DUAL-LITE	AS-87-2-VC MCN-KB-277	277
S 12 150R/FL	BORDER LIGHT	STD.	PIPE CLAMP			DECOOR	BL-150-6-4 CL-416	120
T 1 500BOE	ELLIPSOIDAL	STD.	PIPE CLAMP			DECOOR	170609-TLG	120
U 1 500BLT	FRESNEL SPOTLIGHT	STD.	PIPE CLAMP			DECOOR	PI6-TLG	120
V 1 500HID	ELLIPSOIDAL	STD.	PIPE CLAMP			DECOOR	EOGA-35TLG	120
W 1 500P550/1F	SCOOP LIGHT	STD.	PIPE CLAMP			DECOOR	SL4-TLG	120
X 1 P8T5/CW	DOUBLE FACE EXIT W/ARROWS AS SHOWN ON PLANS	WHITE ON GREEN	RECESSED	3.75	GRID "T"	FRESCOLITE	ERC-9-LR	277
X1 1 P8T5/CW	SINGLE FACE EXIT W/ARROWS AS SHOWN ON PLANS	WHITE ON GREEN	SURFACE BACK MT			FRESCOLITE	ES-9	277
Y 1 P8T5/CW	NITE- LIGHT	STD.	RECESSED	4"	GRID "T"	MCRILLDEN	93-24AP	277

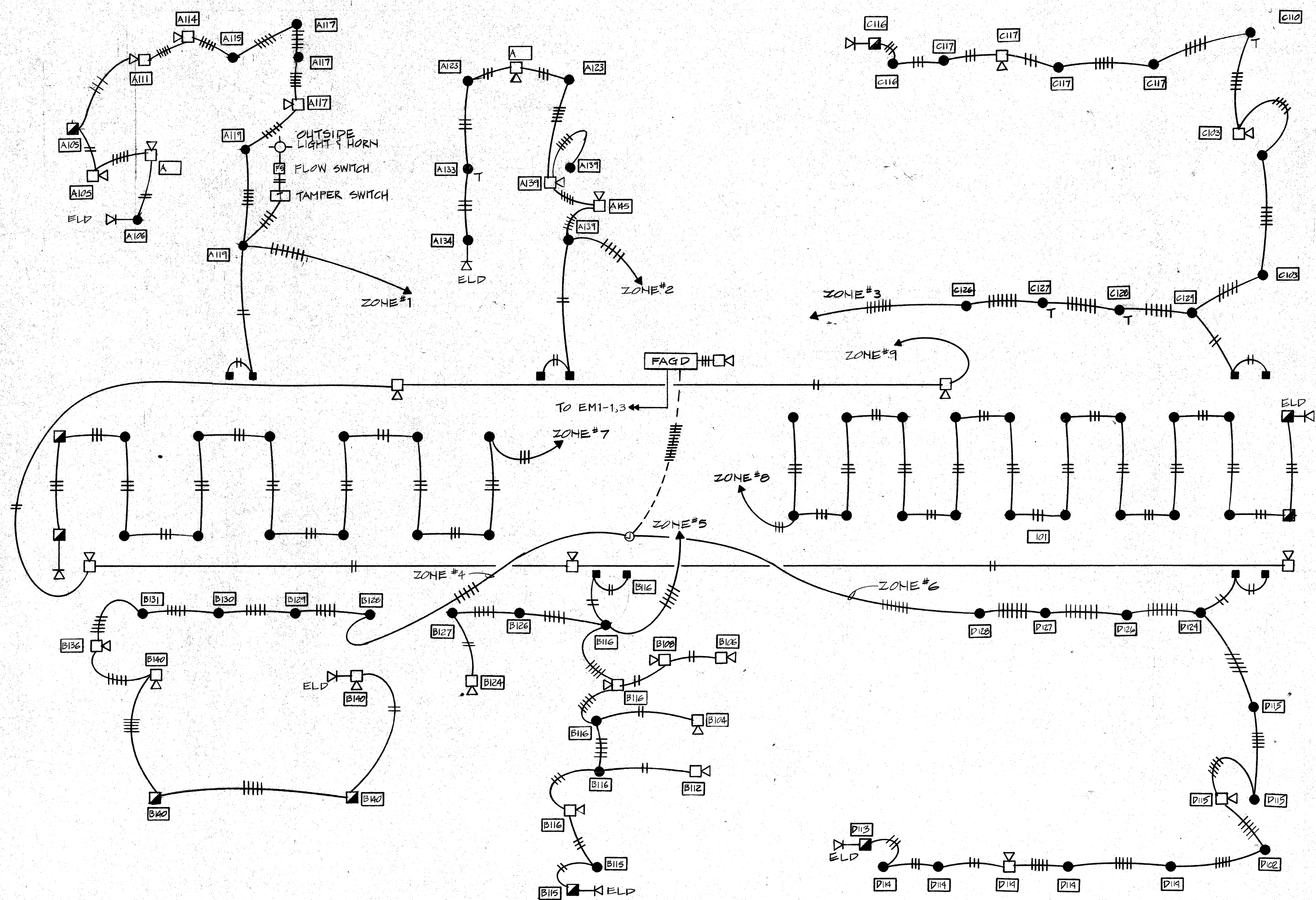
NOTES:  
1. TYPE "P", "P1", and "P2" FIXTURES SHALL BE MOUNTED SO THAT BOTTOM OF UNIT IS FLUSH WITH BOTTOM OF JOIST.  
2. TYPE "P" FIXTURE SHALL CONTAIN A DUAL LIGHTING SYSTEM WITH ONE 400W M.H. LAMP AS 277 VOLTS AND ONE 150 W. QUARTZ LAMP SEPARATELY WIRED, EXTERNALLY DIMMER CONTROLLED FROM A LOW VOLTAGE SOURCE.  
3. TYPE "P2" FIXTURE CONTAINS A DUAL LIGHTING SYSTEM WITH ONE 400W H.D. LAMP AND ONE AUXILIARY 150W QUARTZ LAMP CONTROLLED WITHIN THE SAME SYSTEM VOLTAGE OF 277.

Fire Alarm Symbols	Legend
Door Closer	Lighting Panel
Thermal Detector	Power Panel
Ionized Detector	Main Distribution Center
Photo-Electric Smoke Detector	Telephone Terminal
Horn	Circuit Run; underground, floor
Chime	Circuit Run; in walls and ceilings
Fire Alarm Panel	Circuit Run; exposed
Tamper Switch for Open Stem & Yoke	Home Run; arrows are no. of circuits
Duct Detector	Calling Outlet; letter gives fixt. type
Flow Switch	Wall Outlet; letter gives fixt. type
Remote Annunciator	Incandescent Fixture; recessed
Standby Battery Cabinet	Fluorescent Fixture; surface
End of Line Diode	Fluorescent Fixture; recessed
Fire Fighters Phone Jack	Fluorescent Striplight
Horn and Light	Spotlight
End of Line Resistor	Porcelain Lampholder; Bryant 5228 with 150A lamp
Breakglass Station	Exit Light
	Duplex Receptacle; wall
	Duplex Receptacle; weatherproof
	Duplex Receptacle; above counter
	Duplex Receptacle; one-half switched
	Double Duplex Receptacle; wall
	Receptacle Outlet; floor
	Junction Box; ceiling
	Junction Box; wall
	Clock Outlet
	Sign Outlet
	Telephone Outlet; wall
	Telephone Outlet; floor
	House Phone
	Pay Telephone
	P.A. Speaker Outlet
	Intercom Outlet
	Volume Control
	Single Pole Switch; subscript indicates switching
	Double Pole Switch
	Three Way Switch
	Thermal Overload Switch
	Switch & Pilot Light
	Key Operated Switch
	Low Voltage Switch
	Combination Switch & Receptacle Outlet
	Time Switch; type as noted
	Pushbutton Station
	Amplifier
	Surface Raceway; type as noted
	Meter
	Motor Outlet & Connection
	Fused Safety Switch
	Magnetic Starter or Contactor
	Fused Disconnect Sw.; diagrammatic
	Circuit Breaker; diagrammatic
	Electrical Service Entrance (Overhead)
	Indicates Detail Notes
	Indicates Mechanical Equipment
	Indicates Kitchen Equipment
	Dimmer, as noted
	Thermostat
	Conduit up
	Conduit down
	Hood Outlet and Connection
	Disposer
	Special Purpose Outlet; noted
	Items shaded indicate being on emergency circuit
	Low Voltage Control Wiring
	Photo-Electric Cell
	Tale-Power Pole
	Flexible Wiring System Receptacle on Fixture
	No. Indicates Quantity of Circuits
	Flexible Wiring System Switch Log
	Flexible Wiring to Hard Wiring J-Box
	Outlet With Ground Fault Interrupter
	Combination Starter/Disconnect as noted

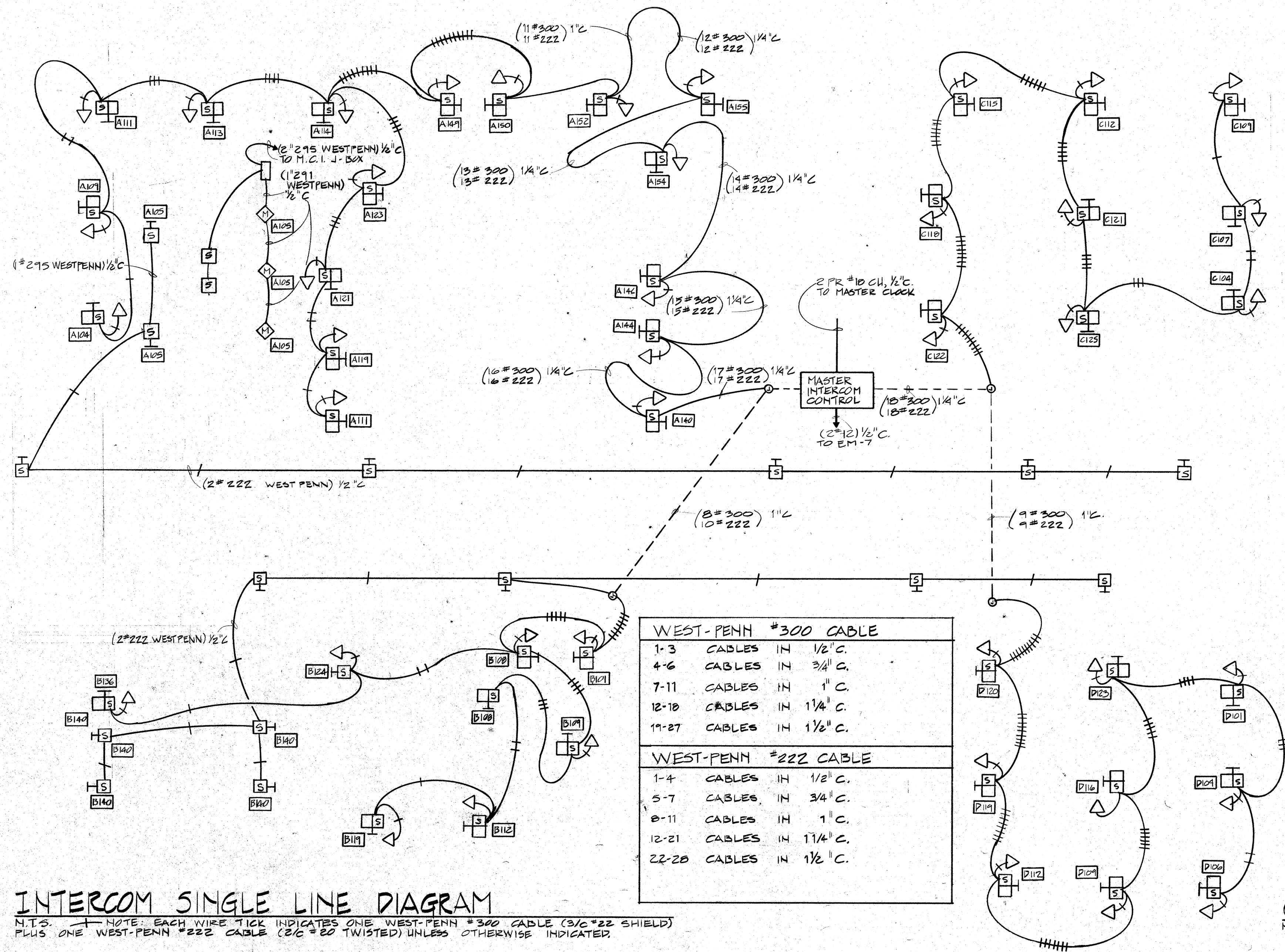


OF 15 DRAWINGS

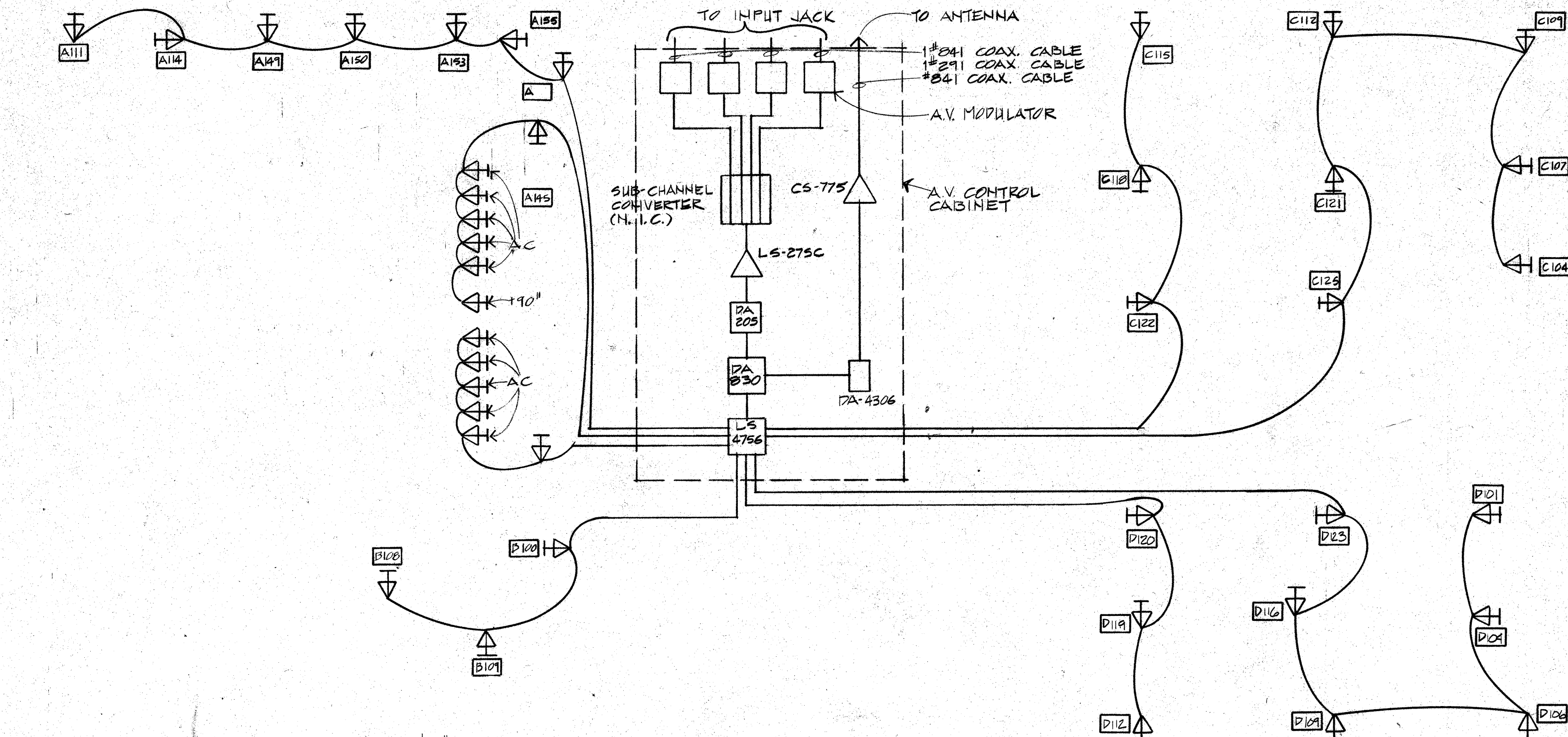




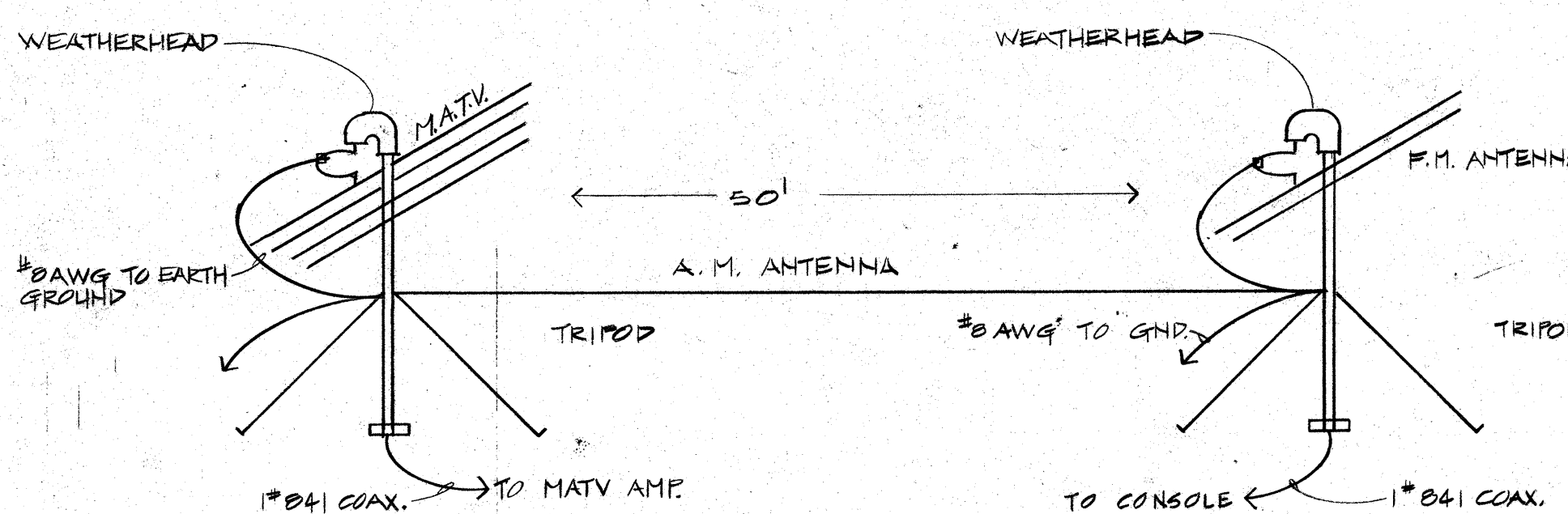
FIRE ALARM SINGLE LINE DIAGRAM  
N.T.S.



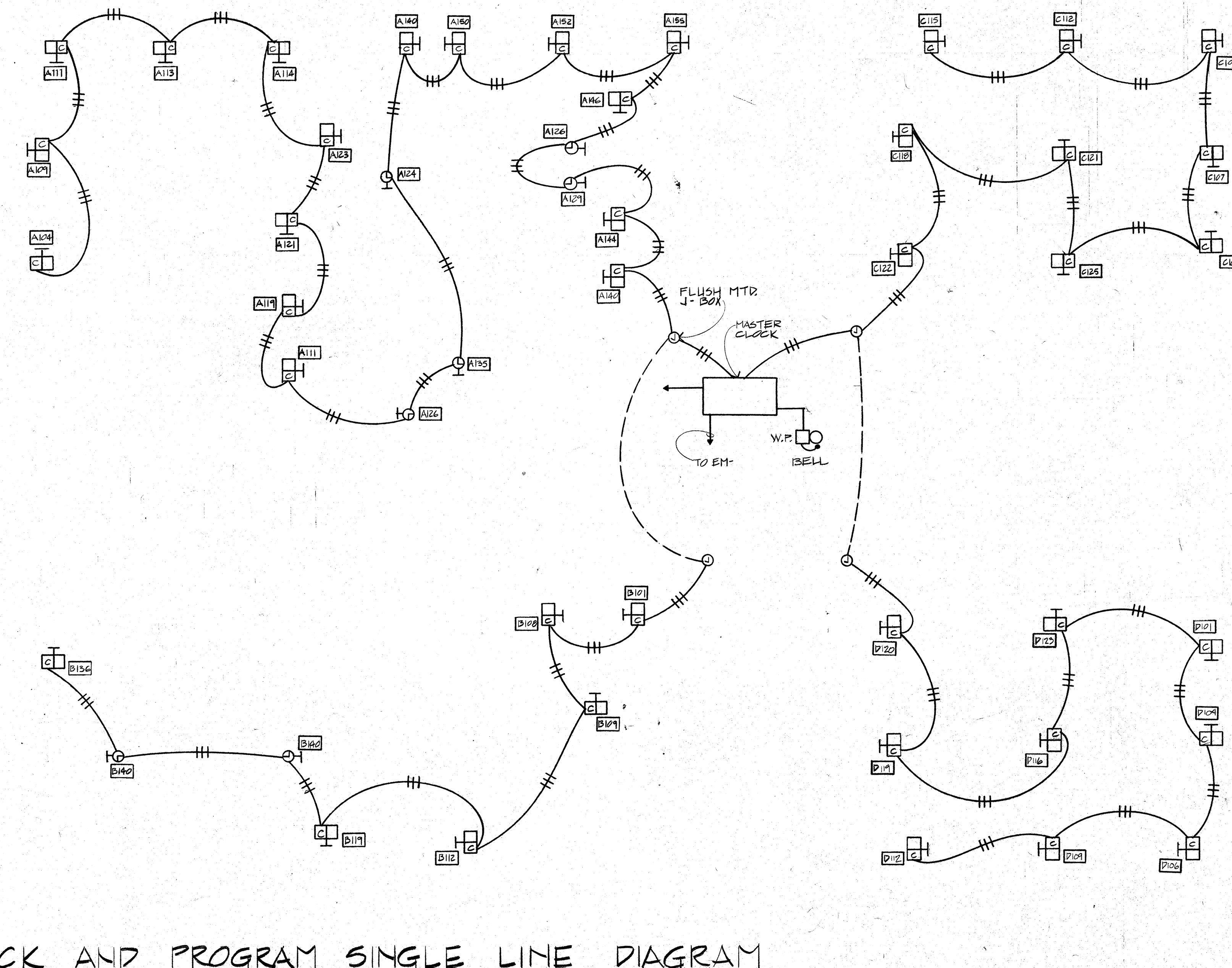
INTERCOM SINGLE LINE DIAGRAM  
N.T.S.



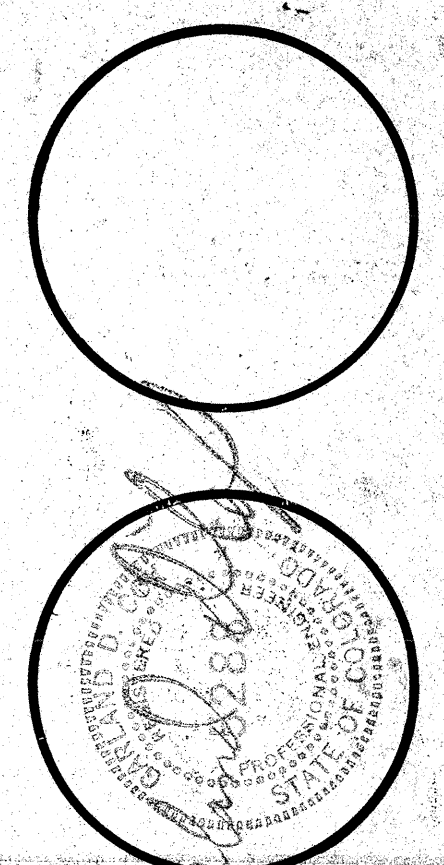
T.V. SYSTEM SINGLE LINE DIAGRAM  
N.T.S.



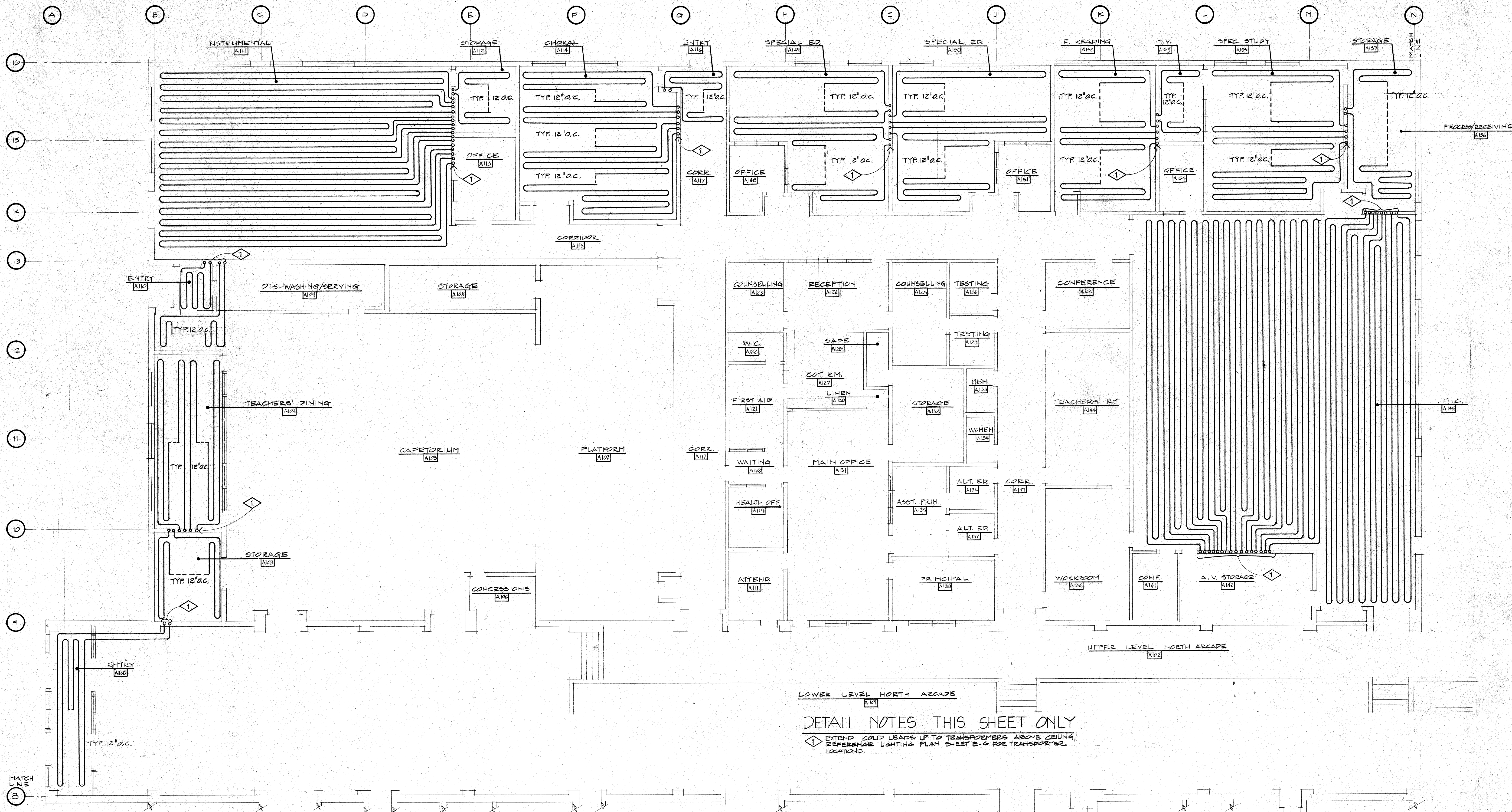
ANTENNA DETAIL  
N.T.S.



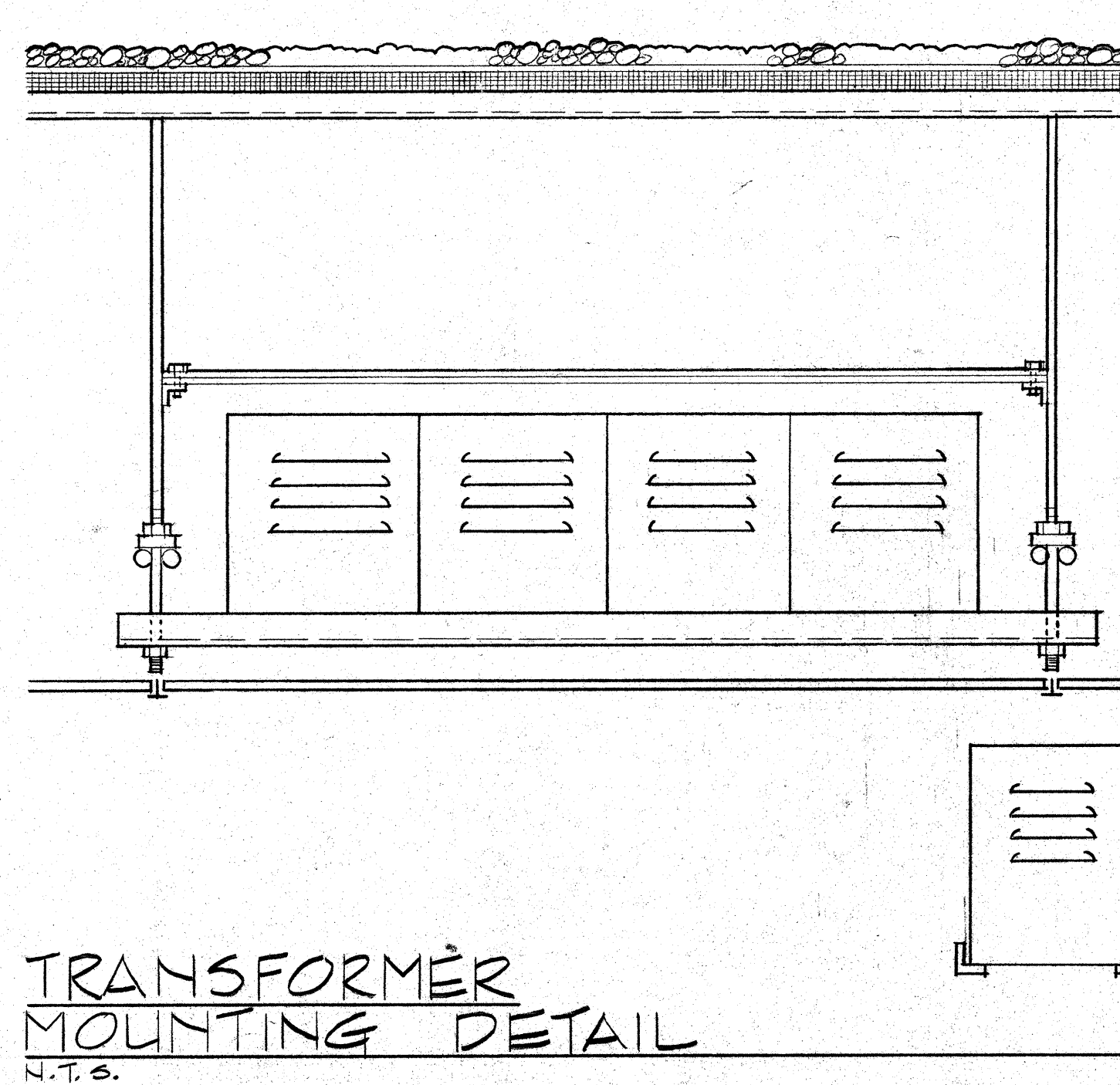
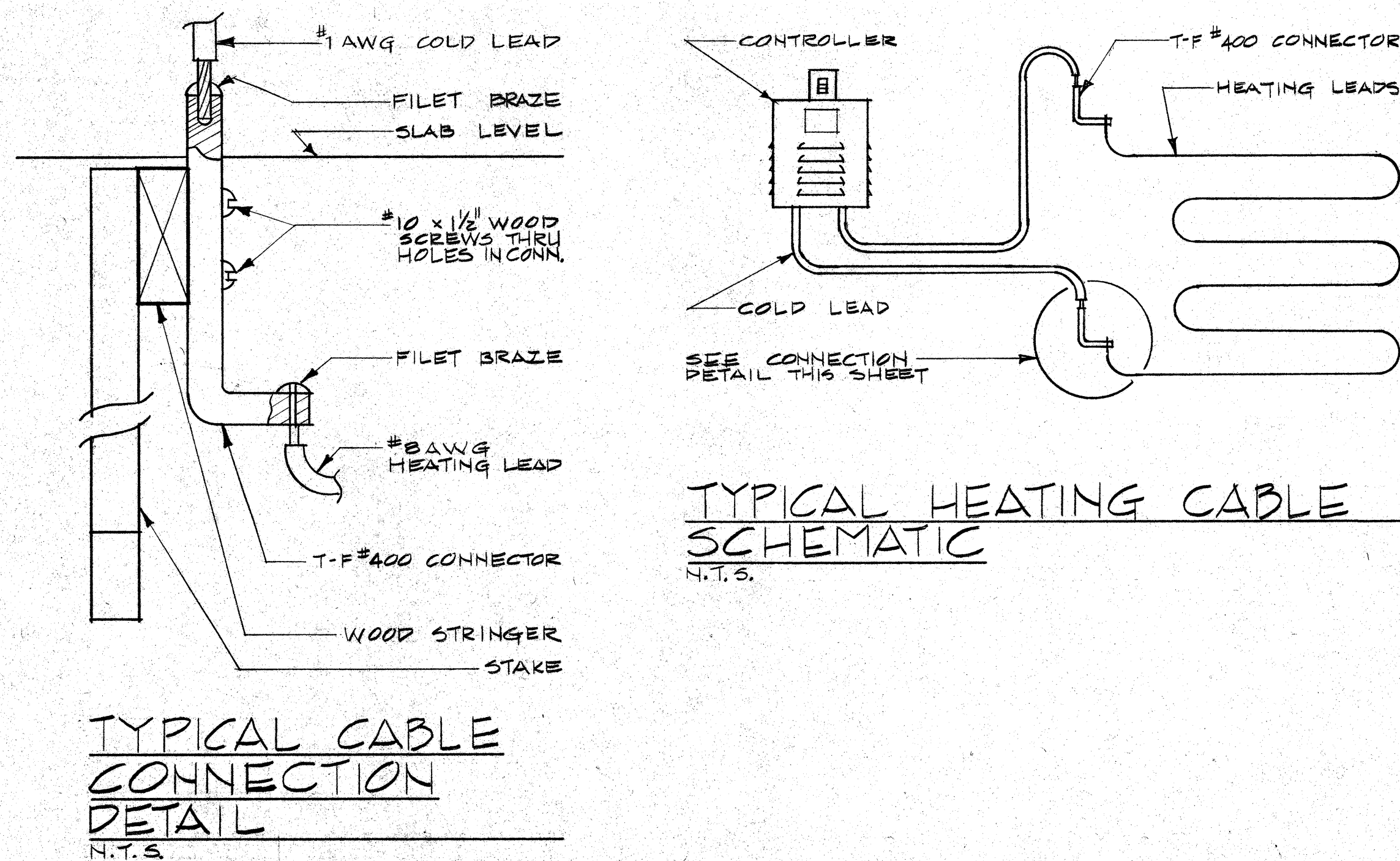
CLOCK AND PROGRAM SINGLE LINE DIAGRAM  
N.T.S.







DETAIL NOTES THIS SHEET ONLY  
 ◇ EXTEND COLD LEADS UP TO TRANSFORMERS ABOVE CEILING, REFERENCE LIGHTING PLAN SHEET B-C FOR TRANSFORMER LOCATIONS

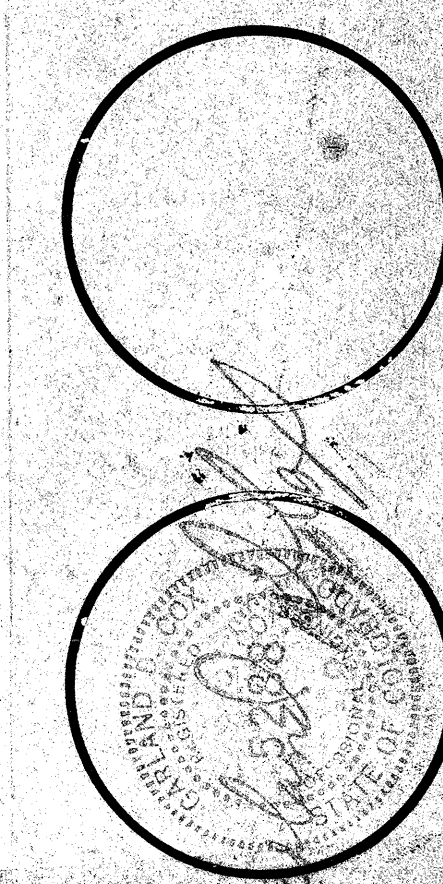


QUADRANT "A" HEATING FLOOR PLAN  
 SCALE 1/8"=1'-0"

PANEL HHNE SCHEDULE										PANEL HHSE SCHEDULE																	
SERVICE: 480/277V (3PH) 4W										SERVICE: 480/277V (3PH) 4W																	
EQUIPMENT	#	LOAD	CIRC	BR	CIR	#	LOAD	CIRC	BR	EQUIPMENT	EQUIPMENT	#	LOAD	CIRC	BR	CIR	#	LOAD	CIRC	BR	EQUIPMENT						
RECP	KVA	AMP	P	AMP	P	RECP	KVA	AMP	P	RECP	KVA	AMP	P	RECP	KVA	AMP	P	RECP	KVA	AMP	P	RECP					
TRANSF	0	3.00	15A1P	1	2	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	1	2	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	3	4	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	3	4	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	5	6	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	5	6	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	7	8	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	7	8	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	9	10	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	9	10	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	11	12	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	11	12	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	13	14	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	13	14	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	15	16	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	15	16	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	17	18	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	17	18	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
TRANSF	0	3.00	15A1P	19	20	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	19	20	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
SPACE	0	3.00	15A1P	21	22	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	21	22	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
SPACE	0	3.00	15A1P	23	24	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	23	24	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
SPACE	0	3.00	15A1P	25	26	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	25	26	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
SPACE	0	3.00	15A1P	27	28	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	27	28	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
SPACE	0	3.00	15A1P	29	30	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P	29	30	15A1P	3.00	0	TRANSF	TRANSF	0	3.00	15A1P				
PHASE A PHASE B PHASE C TOTAL										PHASE A PHASE B PHASE C TOTAL																	
LOAD (KVA)	21.00	18.00	18.00	57.00	A/B BAL 16.7%	PH A 76.0A	LOAD (KVA)	24.00	21.00	18.00	63.00	A/B BAL 14.3%	PH A 87.0A	LOAD (KVA)	24.00	21.00	18.00	63.00	A/B BAL 14.3%	PH A 87.0A	LOAD (KVA)	24.00	21.00	18.00	63.00	A/B BAL 14.3%	PH A 87.0A
LOAD (KW)	21.00	18.00	18.00	57.00	A/C BAL 16.7%	PH B 65.0A	LOAD (KW)	24.00	21.00	18.00	63.00	A/C BAL 13.3%	PH B 76.0A	LOAD (KW)	24.00	21.00	18.00	63.00	A/C BAL 13.3%	PH B 76.0A	LOAD (KW)	24.00	21.00	18.00	63.00	A/C BAL 13.3%	PH B 76.0A
PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL 0.0%	PH C 65.0A	PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL 0.0%	PH C 65.0A	PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL 0.0%	PH C 65.0A	PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL 0.0%	PH C 65.0A
XFMR TOTAL										XFMR TOTAL																	
KVA	57.0	57.0	57.0	171.0			KVA	63.0	63.0	63.0	189.0			KVA	63.0	63.0	63.0	189.0			KVA	63.0	63.0	63.0	189.0		
KW	57.0	57.0	57.0	171.0			KW	63.0	63.0	63.0	189.0			KW	63.0	63.0	63.0	189.0			KW	63.0	63.0	63.0	189.0		
P.F.	1.000	1.000	1.000	1.000			P.F.	1.000	1.000	1.000	1.000			P.F.	1.000	1.000	1.000	1.000			P.F.	1.000	1.000	1.000	1.000		
MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC										MAIN BREAKER: MLO BUS AMPACITY: 100 PANEL MOUNTING: SFC																	

REFERENCE ARCHITECTURAL DRAWINGS FOR COMPLETE DETAILED INFORMATION.





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

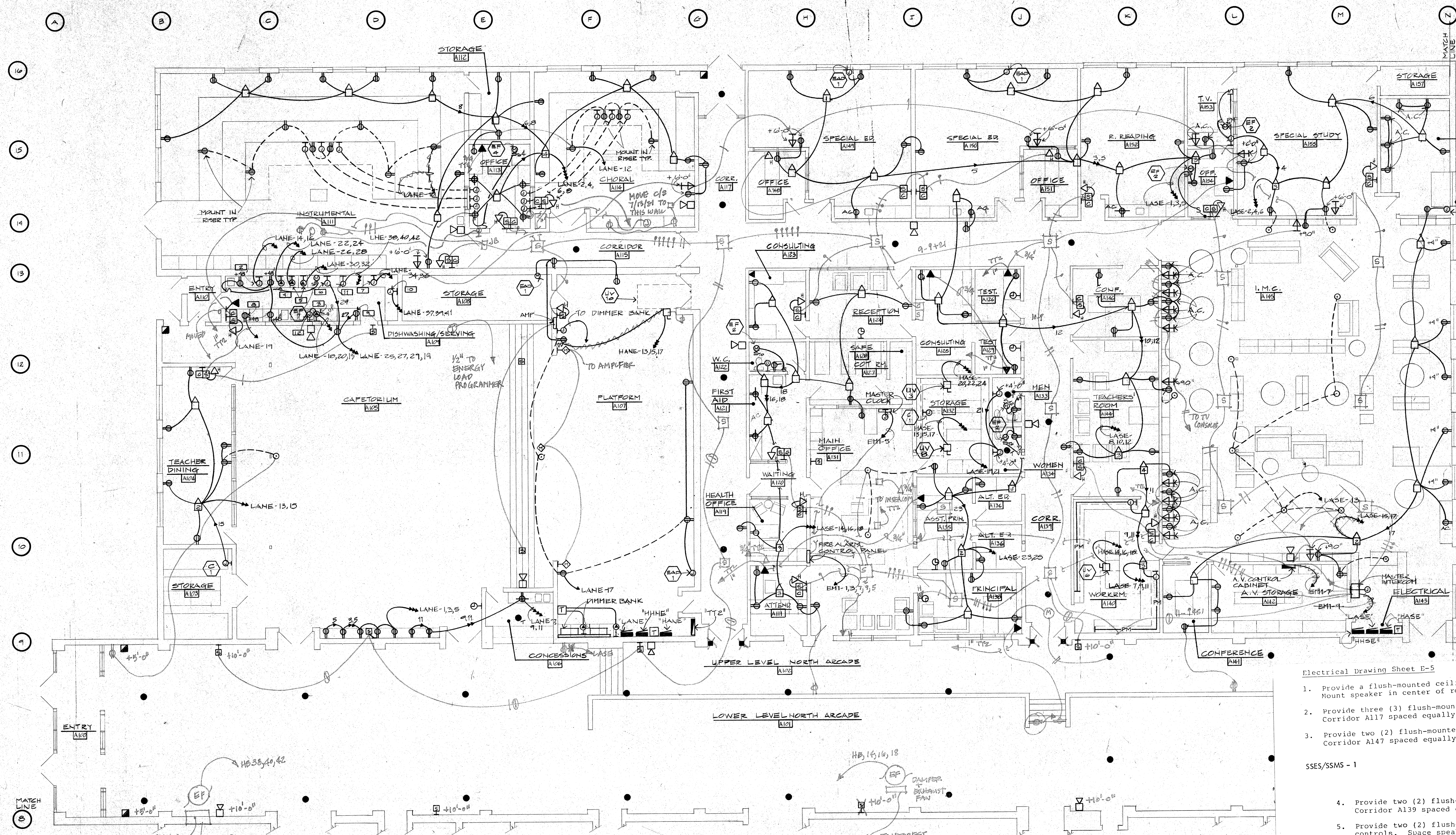
Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs  
Cator, Ruma & Associates, Co., Mechanical Engineers, Denver  
Garland D. Cox Associates, Inc., Electrical Engineers, Denver

TITLE  
QUADRANT A POWER PLAN

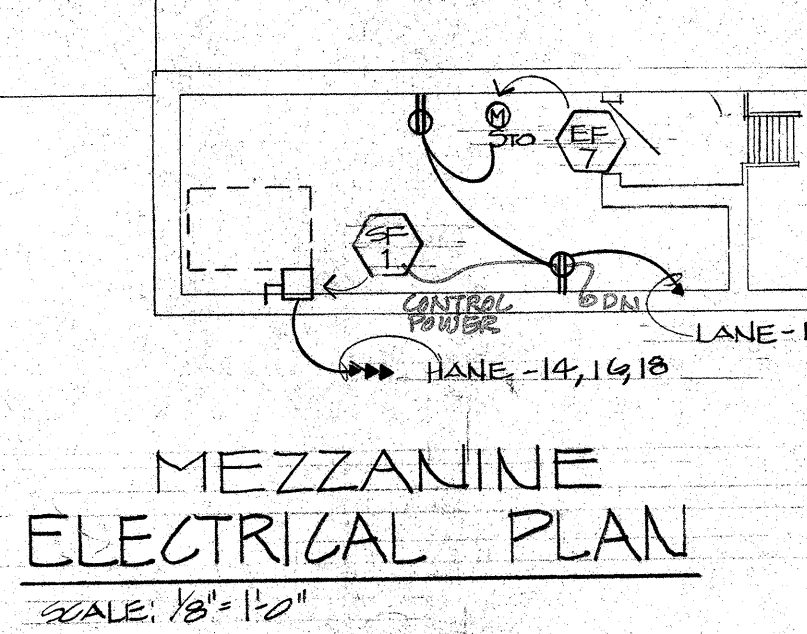
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DRAWN K.E.R.  
CHECKED P.L.W.  
DATE MAY 8, 1982  
REVISED

DRAWING NUMBER

OF 15 DRAWINGS



QUADRANT A POWER PLAN  
SCALE 1/8" = 1'-0"

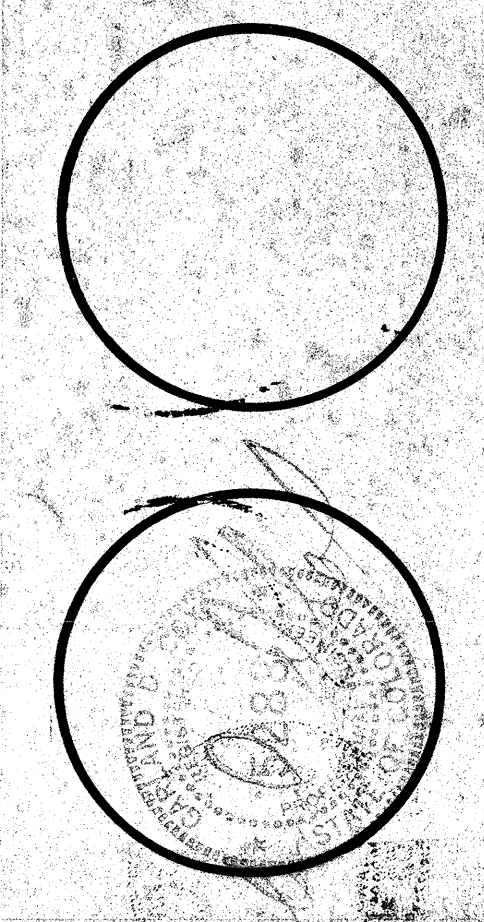


Kitchen Equipment Schedule											
Description	Characteristics			Supply Data			Installation				
	hp	KW	Volts	Feeder Wire Size	Cond	Breaker	Mounting	Height	Aff	Electrical	Remarks
1											
2	HOT PLATE	52	208	2 # 8 + 1 # 10G	3/4"	40/2					DISCONNECT BY E.C.
3	HOT FOOD TABLE	3.75	208	2 # 10 + 1 # 10G	3/4"	20/2					
4	TOASTER	2.5	120	3 # 12 + 1 # 12G	3/4"	20/2					
5	WARMING OVEN (2)	1.5	208	2 # 12 + 1 # 12G	1/2"	15/2					DISCONNECT BY E.C.
6	REFR./ FREEZER	1.5	120	2 # 12	1/2"	20/1					DISCONNECT BY E.C.
7	DISH MACHINE	1.5	208	2 # 12 + 1 # 12G	1/2"	15/2					DISCONNECT BY E.C.
8	CASH REGISTER	.2	120	2 # 12 + 1 # 12G	1/2"	20/1					
9	MILK REFR.	1/4	120	2 # 12	1/2"	20/1					
10	DISPOSER	2	208	3 # 12 + 1 # 12G	3/4"	15/3					DISCONNECT BY E.C.
11	BOOSTER HTR.	6.0	208	3 # 10 + 1 # 10G	3/4"	20/3					DISCONNECT BY E.C.
12	HEAT LAMP	.8	208	2 # 12 + 1 # 12G	1/2"	15/2					

PANEL LANE SCHEDULE											
SERVICE: 208/120V (3PH) 4W											
EQUIPMENT	RECP	KVA	AMP	P	#	BUS	#	CIR	CIR	LOAD	#
RECEIPT	8	1.44	20A1P	1	2	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	3	4	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	5	6	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	7	8	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	9	10	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	11	12	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	13	14	40A2P	1	4	40A2P	5.20	0 HOT
CONTROL-FA	0	1.44	20A1P	15	16	20A1P	1	4	20A1P	1.44	8 REC
RECEIPT	8	1.44	20A1P	17	18	30A2P	1	4	30A2P	4.55	0 HOT
CASH REG	0	0.20	20A1P	19	20	20A1P	1	4	20A1P	0.20	0 HOT
SPARE HEAT LAMP	20A1P	21	22	20A2P	2.80	0 TOA					
SPARE HOUSE LIGHTS	20A1P	23	24	20A1P	1.50	0 WIRE SIZE					
RECEIPT	8	1.44	20A1P	25	26	15A2P	1	4	15A2P	1.50	0 WMC
MILK MACH	0	0.70	15A1P	27	28	15A1P	1	4	15A1P	0.70	0 WMC
FRZER	0	1.18	20A1P	29	30	15A2P	1	4	15A2P	1.50	0 WMC
SPARE	20A1P	31	32	15A1P	1.50	0 WIRE SIZE					
SPARE	20A1P	33	34	15A2P	2.00	0 DIS					
SPARE	20A1P	35	36	50A1P	8.12	0 WIRE SIZE					
DISPOSER	0	2.70	15A3P	37	38	30A3P	1	4	30A3P	6.00	0 BOOI
WIRE SIZE	# 12	39	40	# 14	0 WIRE SIZE						
WIRE SIZE	# 12	41	42	# 14	0 WIRE SIZE						
PHASE A	18.12	16.55	16.70	51.36	A/B BAL	9.5%	PH A				
LOAD (KW)	18.03	16.19	17.16	50.38	A/C BAL	6.5%	PH B				
P.W.F. FACTOR	0.995	0.978	0.968	0.981	B/C BAL	0.9%	PH C				
KVA	4.5	15.8	23.6	1.6	45.6						
KW	3.7	15.8	23.6	1.6	44.6						
P.F.	0.802	1.000	1.000	1.000	0.980						
MAIN BREAKER	175	BUS AMPCACITY	225	PANEL MOUNTING	5FC						

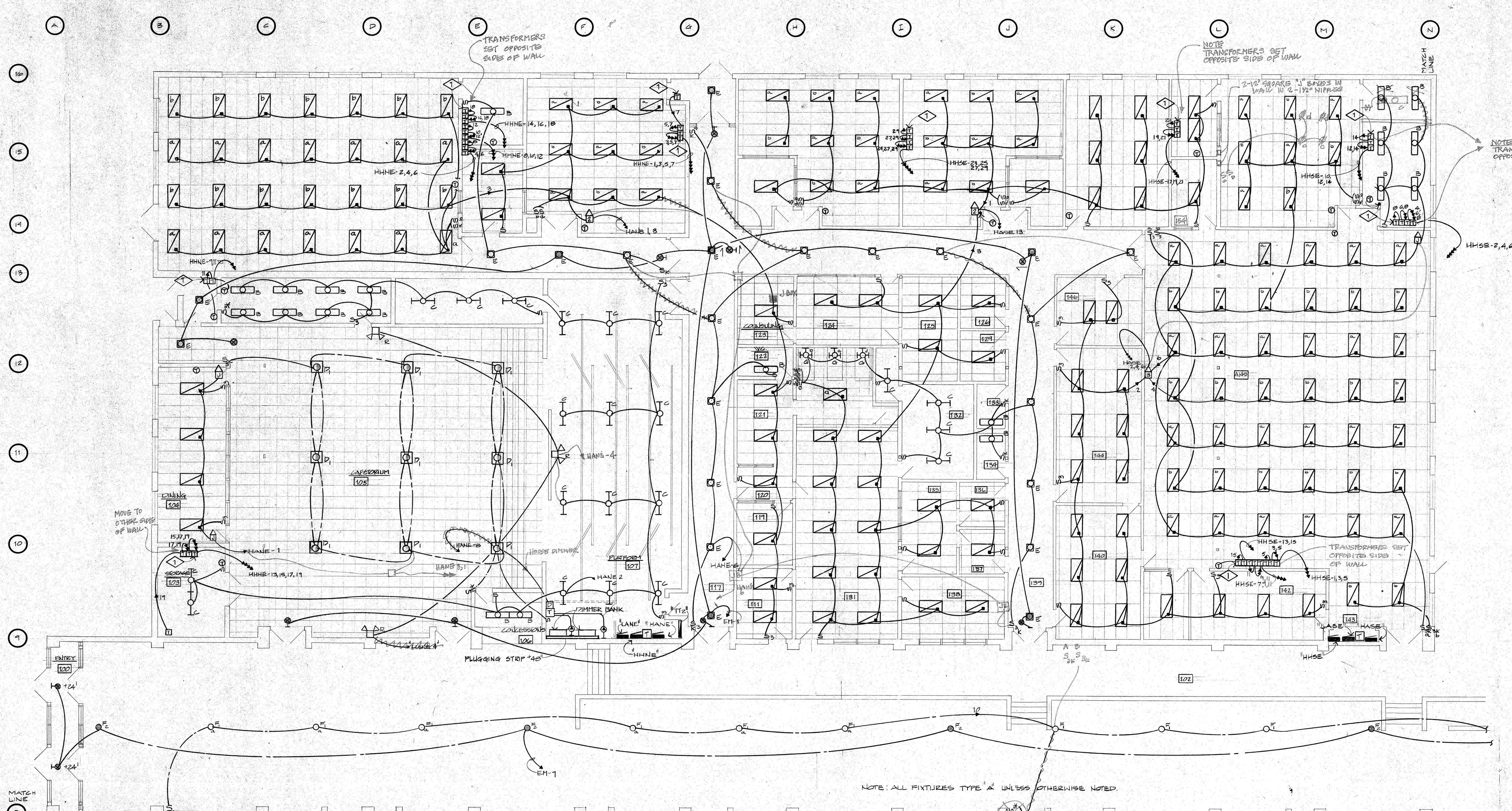
- Electrical Drawing Sheet E-5
- Provide a flush-mounted ceiling speaker in Corridor A115. Mount speaker in center of room.
  - Provide three (3) flush-mounted ceiling speakers in Corridor A117 spaced equally in center of room.
  - Provide two (2) flush-mounted ceiling speakers in Corridor A147 spaced equally in center of room.
  - Provide two (2) flush-mounted ceiling speakers in Corridor A139 spaced equally in center of room.
  - Provide two (2) flush-mounted ceiling speakers and volume controls. Space speakers equally in center of room, and locate volume controls near doors opening into arcade.
  - Provide one (1) flush-mounted ceiling speaker and volume control in Rooms A135 and A138. Mount speakers in center of rooms and locate volume controls near doors opening into Room A131.
  - Provide six (6) flush-mounted ceiling speakers in IMC A145, two (2) rows of three (3) spaced equally in room.
  - Provide administrative phone sets for Rooms A135 and A138.
  - Provide a thermal heat detector centered in the Mechanical Room, Mezzanine Level.
  - Provide a combination clock and speaker unit complete with handset in Room A125.
  - Note: All items above are reflected on the attached drawing, Sheet E-3A.
  - Provide a duplex receptacle on south wall in Room A112 for 50 watt humidifier. Connect to nearest receptacle in Room A114. Mount at 7'-0".
  - Extend and connect Circuits HB-38,40,42 to exhaust fan EF-22 located in the Arcade A101 near Columns C-8. Reference mechanical drawings for exact location. Provide 120V power for damper motor from nearest receptacle.
  - Extend and connect Circuits HB-14,16,18 to exhaust fan EF-22 located in the Arcade A101 near Columns I-8. Reference mechanical drawings for exact location. Provide 120V power for damper motor from nearest receptacle.
  - Provide 120V control voltage to SF-1 located in the Mezzanine Level Mechanical Room. Power shall be provided from nearest duplex receptacle.
  - Provide two (2) flush-mounted 12" square junction boxes with blank cover plates, as indicated on attached drawing, Sheet DA-1.6. Junction boxes shall be connected together with two (2) 1-1/2" conduits.
  - Revised "LASE" panel schedule. See attached schedule.
  - Delete door closers from fire alarm system.





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

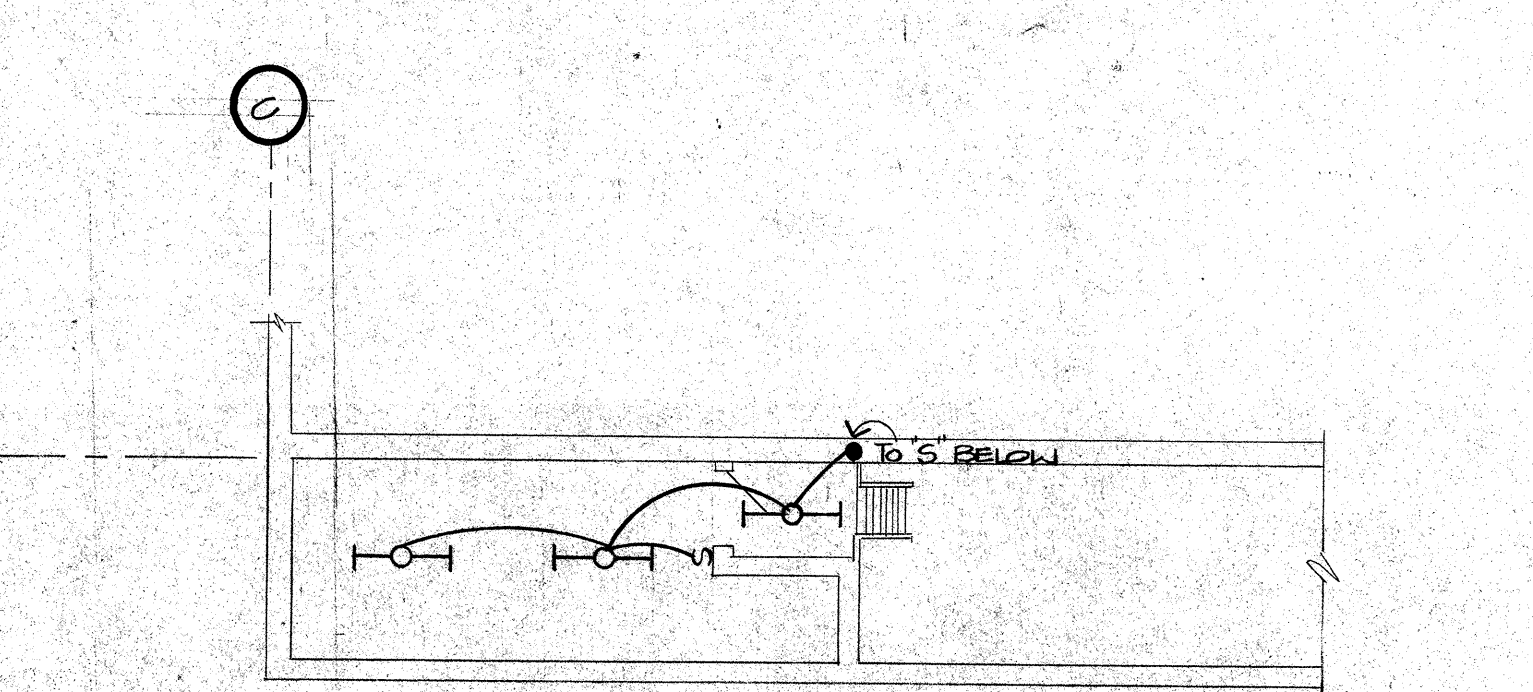
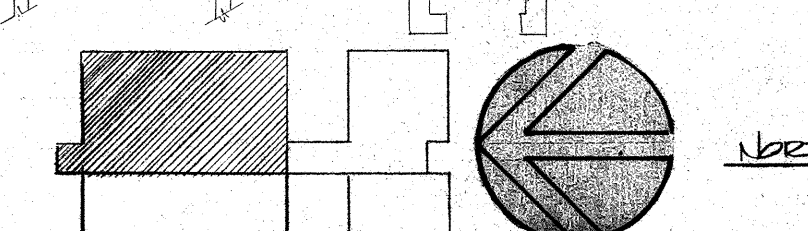
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DRAWN KEE  
CHECKED ELW  
DATE MAY 8 1980  
REVISED  
DRAWING NUMBER  
OF 15 DRAWINGS



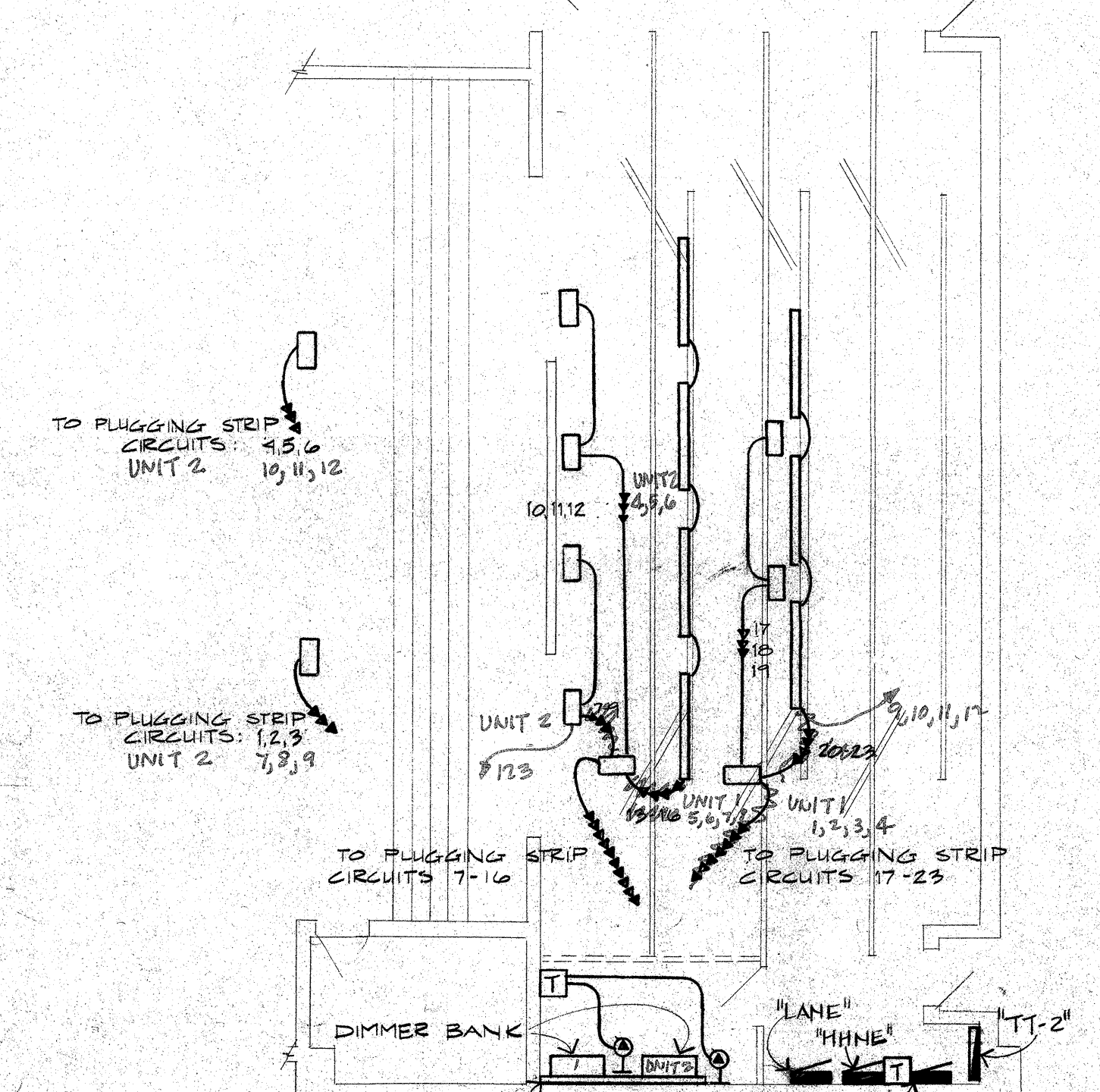
DETAIL NOTES THIS SHEET

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

QUADRANT 'A' LIGHTING PLAN  
SCALE: 1/8" = 1'-0"



MEZZANINE ELECTRICAL PLAN  
SCALE: 1/8" = 1'-0"



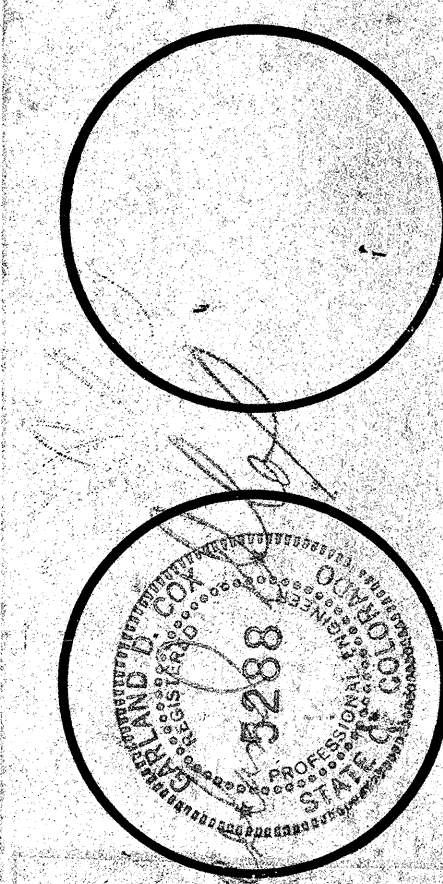
STAGE LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

PANEL HANE SCHEDULE												PANEL HANE SCHEDULE												
SERVICE: 480/277V (3PH) 4W												SERVICE: 480/277V (3PH) 4W												
EQUIPMENT	#	LOAD	CIRC	BK	CIR	BUS	CIR	CIRC	BK	LOAD	#	EQUIPMENT	#	LOAD	CIRC	BK	CIR	BUS	CIR	CIRC	BK	LOAD	#	
LIGHTING	0	3.39	20A1P	1	2	20A1P	2.65	0	LIGHTING	0	4.16	20A1P	1	2	20A1P	2.46	0	LIGHTING	0	4.16	20A1P	1	2	20A1P
LIGHTING	0	4.31	20A1P	3	4	20A1P	0.30	0	BATTERY LT	0	3.54	20A1P	3	4	20A1P	4.31	0	LIGHTING	0	4.31	20A1P	3	4	20A1P
EX LTC	0	2.91	20A1P	5	6	20A1P	2.80	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P
SPARE	0	20A1P	7	8	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPARE	0	20A1P	9	10	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPARE	0	20A1P	11	12	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
UNIT HTR	0	9.00	15A3P	13	14	15A3P	3.99	0	SUPPLY FAN	0	6.00	15A3P	13	14	15A3P	5.00	0	UNIT HTR	0	9.00	15A3P	13	14	15A3P
WIRE SIZE	#	12	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
WIRE SIZE	#	12	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	
PNL LANE	0	45.00	70A3P	19	20	70A3P	45.00	0	DIMMER BAN	0	30.00	50A3P	19	20	50A3P	4.00	0	UNIT HTR	0	9.00	15A3P	13	14	15A3P
WIRE SIZE	#	4	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
WIRE SIZE	#	4	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	
SPACE	0	20A1P	7	8	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	9	10	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	11	12	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	13	14	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	15	16	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	17	18	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	19	20	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	21	22	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	23	24	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	25	26	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	27	28	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	29	30	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	31	32	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	33	34	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	35	36	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	37	38	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	39	40	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
SPACE	0	20A1P	41	42	20A1P	4.49	0	LTC	0	2.90	20A1P	5	6	20A1P	4.28	0	LIGHTING	0	4.31	20A1P	3	4	20A1P	
PHASE A PHASE B PHASE C TOTAL												PHASE A PHASE B PHASE C TOTAL												
LOAD (KVA)	44.86	38.94	40.04	123.84	A/B BAL 15.2%	PH A 162.4AMPS	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	
LOAD (KW)	44.06	38.61	39.61	122.28	A/C BAL 12.3%	PH B 141.4AMPS	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	15.0	30.0	70.8	25.8	
P.W.F. FACTOR	0.982	0.992	0.989	0.987	B/C BAL 2.8%	PH C 145.4AMPS	0.982	0.982	0.989	0.987	0.982	0.982	0.989	0.987	0.982	0.982	0.989	0.987	0.982	0.982	0.989	0.987	0.982	
MAIN BREAKER: NLO BUS AMPCACITY: 225 PANEL MOUNTING: SFC												MAIN BREAKER: NLO BUS AMPCACITY: 225 PANEL MOUNTING: SFC												
LIGHTING MOTORS HEATER XFMR TOTAL												LIGHTING HEATER XFMR TOTAL												
KVA	26.1	5.0	9.0	90.0								27.1	15.0	30.0	70.8									
KW	24.6	4.5	9.0	90.0								25.8	15.0	30.0	70.8									
P.F.	0.944	0.990	1.000	1.000								0.951	1.000	1.000	0.982									
MAIN BREAKER: NLO BUS AMPCACITY: 225 PANEL MOUNTING: SFC												MAIN BREAKER: NLO BUS AMPCACITY: 225 PANEL MOUNTING: SFC												

ELECTRICAL DRAWING SHEET E6

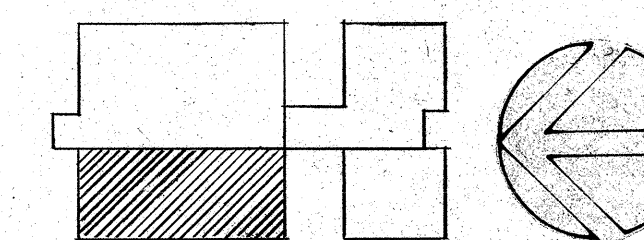
PROVIDES FOUR (4) FLUSH  
MOUNTED RECEPTACLES IN  
ROOM A155 WITH SWITCHES  
AS INDICATED ON ATTACHED  
DRAWING SHEET EA-1.0.  
NOTES LIGHTING CHANGED  
FOR STORAGE ROOM A157.





QUADRANT "B" HEATING  
FLOOR PLAN  
SCALE: 1/8" = 1'-0"

EXTEND COLD LEADS UP TO TRANSFORMERS  
ABOVE CELL LIGHTING  
PLAN SHEET E-9 FOR TRANSFORMER  
LOCATIONS.

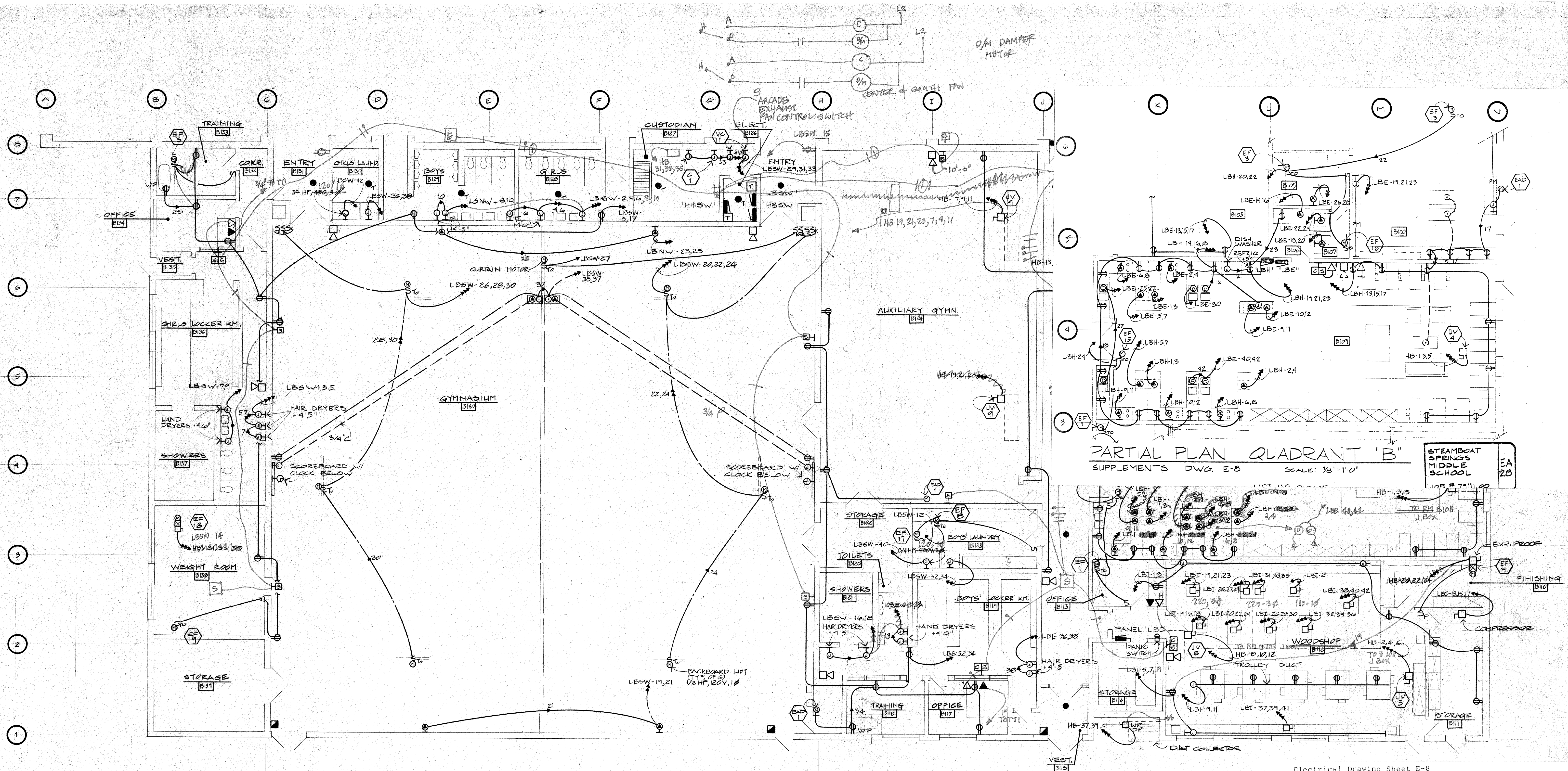
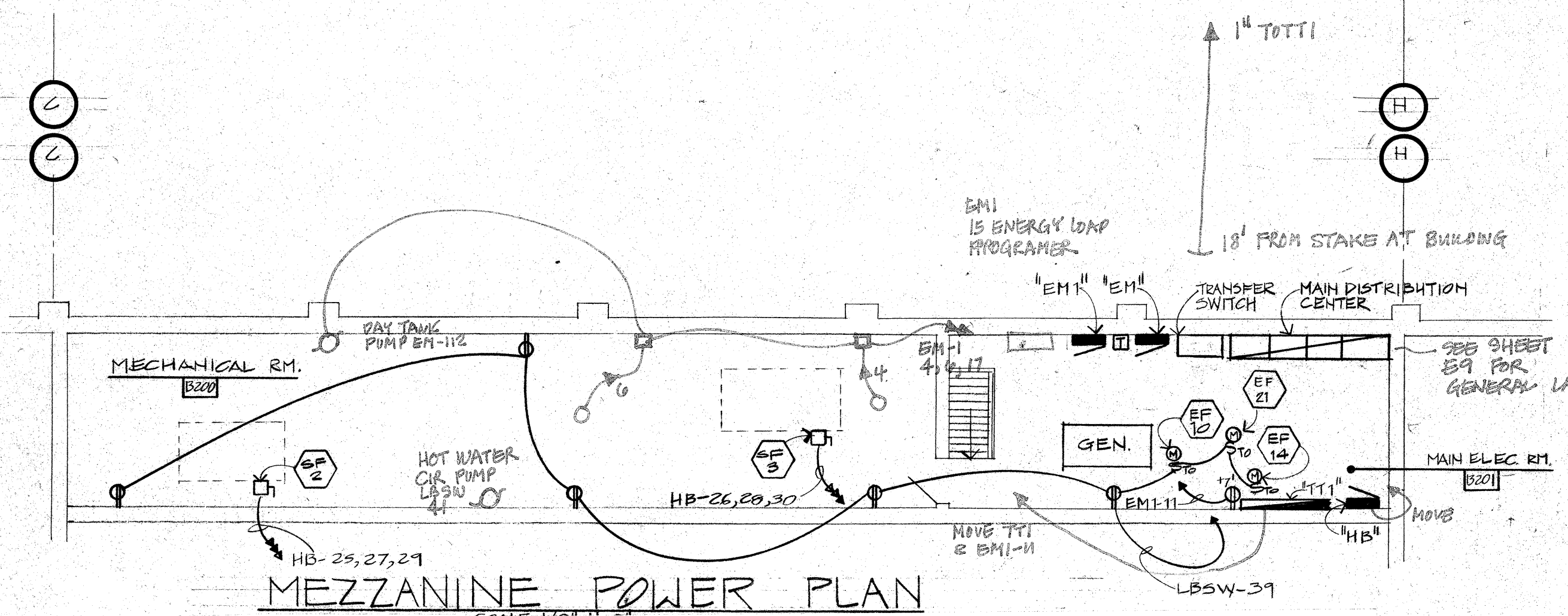


**Lykken and Kramer, Consulting Structural Engineers, Steamboat Springs**  
**Cator, Ruma & Associates, Co., Mechanical Engineers, Denver**  
**Garland D. Cox Associates, Inc., Electrical Engineers, Denver**

JOB NO. 22070.00  
DRAWN WJH  
CHECKED PLW  
DATE MAY 8, 1980  
REVISED

**DRAWING** \_\_\_\_\_ **NUMBER**



PARTIAL PLAN QUADRANT 'B'  
SUPPLEMENTS DWG. E-8 SCALE: 1/8" = 1'-0"

MEZZANINE POWER PLAN

QUADRANT 'B' POWER PLAN  
SCALE: 1/8" = 1'-0"T.V. SYSTEM 1/2"  
1- 1-3/4" SHIELDED & 1/2" SHIELDED  
1- 1-2 1/2" SHIELDED  
① - ARCADE SPEAKERS 2 1/2" SHIELDED

Electrical Drawing Sheet E-8

1. Provide a combination clock and speaker unit complete with handset in room B127.
  2. Provide one (1) flush-mounted ceiling speaker centered in room A138.
  3. Provide four (4) flush-mounted ceiling speakers in Corridor B116. Mount speakers spaced equally in center of corridor.
  4. Provide two (2) thermal detectors in Mechanical Room D200 and one (1) thermal detector in room B201, Mezzanine Level.
  5. Locate the energy load programmers in room D201 next to panel "EMI".
- Note: All items above are reflected on the attached drawing, Sheet E-3A.
6. Transformers serving panels "LBE", "LBH" and "LBI" shall be mounted in ceiling space above and near each respective panel. Provide angle iron framing and suspend from roof structure.
  7. Extend and connect Circuit EMI-17 to the 1/3HP, 120V, 1 phase fuel oil pump located in the Mechanical Room B-200. For exact location, reference mechanical drawings.
  8. Extend and connect Circuit LBSW-41 to the 1/4HP, 120V, 1 phase hot water recirc pump located in the Mechanical Room B-200. For exact location, reference mechanical drawings.
  9. Provide 120V, 1 phase control power from nearest receptacle to SF-2 located in the Mechanical Room B-200. For exact location, reference mechanical drawings.
  10. Revised "LBSW" panel schedule. See attached schedule.
  11. Delete Circuits HB-14, 16, 18 from Art Room B100 as shown on plan. Provide 120V power to damper motor from the nearest receptacle. Reference mechanical drawings for exact location.

SSES/SSMS - 1

Addendum No. 2  
Page 24 of 30

12. Delete nine (9) special-purpose outlets for cook-tops and ovens as shown on plan in the Home Economics Room B109. This shall include conduit, wiring and circuit breakers. Recirculating outlets as indicated on the attached drawing, Sheet EA-1.8.
13. Revised "LBE" and "LBH" panel schedules. See attached schedules.
14. The main circuit breaker for Panel LBI shall be a shunt trip type with #12 conductors connected to the panic switch as shown located on plan.
15. Delete door closers from fire alarm system.

LIFT UP HERE

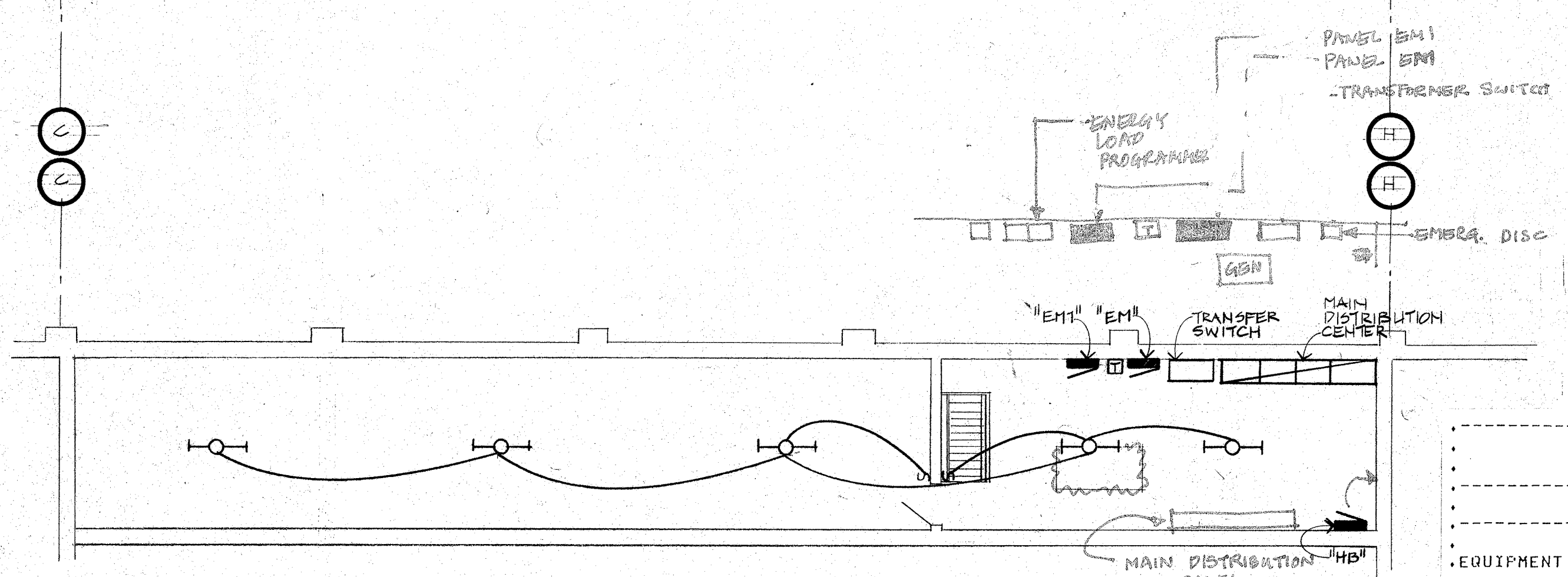
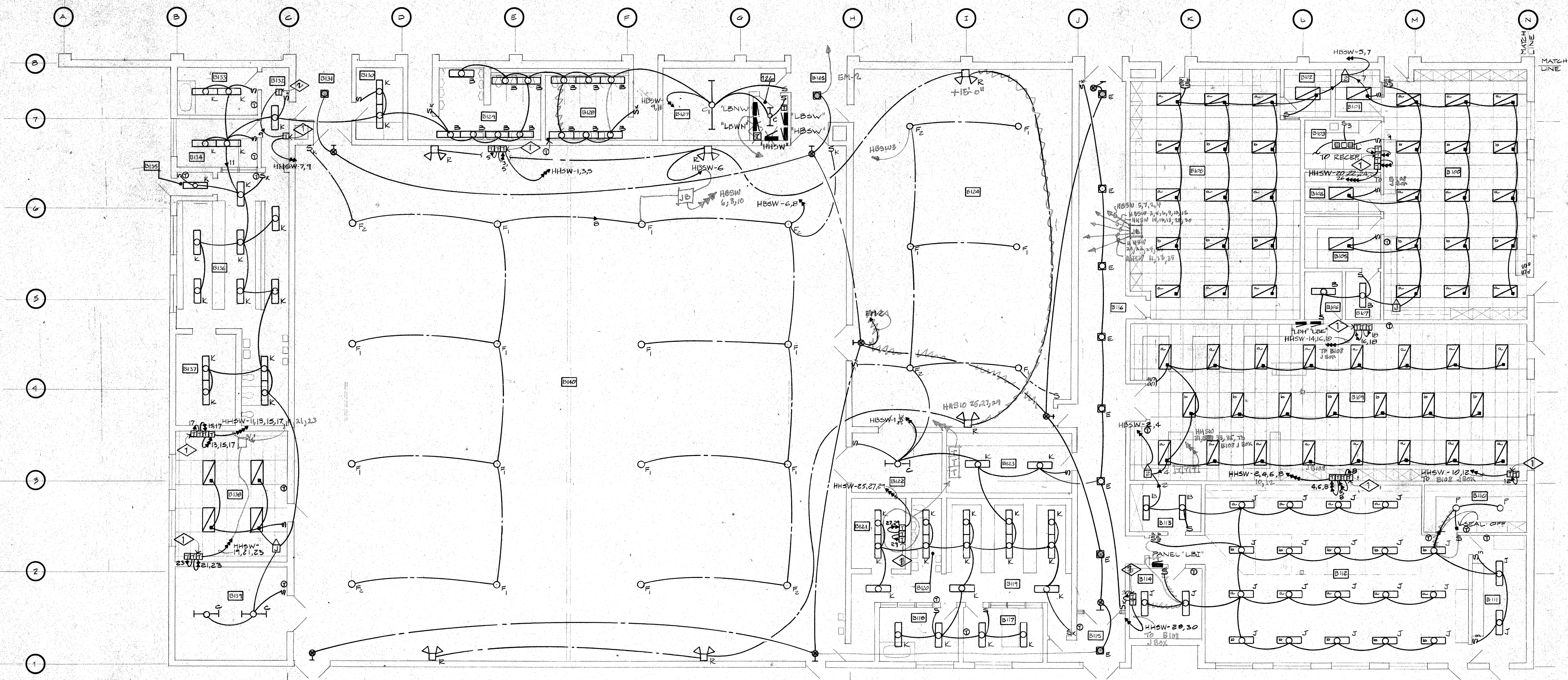
PANEL LBE SCHEDULE											
SERVICE: 208/120V (3PH) 4W											
EQUIPMENT	RECEPT	LOAD	CIR	HK	CIR	BUS	CIR	CIR	LOAD	RECEPT	EQUIPMENT
		KVA	AMP	P				AMP	P		
OVEN	WIRE SIZE	0 8.00	30A2P	1	2	30A2P	4.50	0	COOK TOP		
		# 6	3	4	10	WIRE SIZE	# 10	4.50	0	COOK TOP	
OVEN	WIRE SIZE	0 8.00	30A2P	5	6	30A2P	4.50	0	COOK TOP		
		# 6	3	4	10	WIRE SIZE	# 10	4.50	0	COOK TOP	
COOK TOP	WIRE SIZE	0 4.50	30A2P	9	10	30A2P	9.00	0	OVEN		
		# 10	11	12	14	30A2P	4.80	0	WIRE SIZE		
RECEPT		8 1.44	20A1P	13	14	30A2P	9.80	0	DRYER		
RECEPT		8 1.44	20A1P	15	16	1	10 WIRE SIZE				
RECEPT		8 1.44	20A1P	17	18	60A2P	9.80	0	KILN		
RECEPT		8 1.44	20A1P	19	20	6	WIRE SIZE				
RECEPT		8 1.44	20A1P	21	22	60A2P	9.80	0	KILN		
RECEPT		8 1.44	20A1P	23	24	1	6 WIRE SIZE				
DISPOSAL RECEPT		0 1.18	20A1P	25	26	15A2P	1.66	0	CLAY MIXER		
DISPOSAL RECEPT		0 1.18	20A1P	27	28	6	WIRE SIZE				
SPARE DISPOSAL		0 20A1P	29	30	20A1P	1.18	0	DISPOSAL			
SPARE DISPOSAL		0 20A1P	31	32	20A1P	1.26	7	RECEPT			
SPARE WOOD LIGHTS		0 20A1P	33	34	15A1P	0.70	0	WHIRLPOOL			
SPARE		0 20A1P	35	36	20A1P	1.38	0	HAIR DRYER			
SPARE		0 20A1P	37	38	20A1P	1.38	0	HAIR DRYER			
SPARE		0 20A1P	39	40	20A1P	1.18	0	DISPOSAL			
SPARE		0 20A1P	41	42	20A1P	1.18	0	DISPOSAL			
PHASE A PHASE B PHASE C TOTAL											
LOAD (KVA)	27.33	26.56	28.91	82.80	A/B BAL	2.9%	PH B 228.4MPS	LOAD (KVA)	20.33		
LOAD (KW)	26.56	25.08	28.02	79.66	A/C BAL	5.6%	PH B 221.4MPS	LOAD (KW)	18.06		
P.W.F. FACTOR	0.972	0.944	0.969	0.962	B/C BAL	8.9%	PH C 241.4MPS	P.W.F. FACTOR	0.888		
MOTORS STD RCP HEATER RANGE APPLNCE TOTAL											
KVA	7.4	9.9	22.4	24.0	18.3	82.0					
KW	4.6	9.9	22.4	24.0	18.3	79.2					
P.F.	0.619	1.000	1.000	1.000	1.000	0.965					
MAIN BREAKER: 400 BUS AMPACITY: 400 PANEL MOUNTING: REC											

PANEL LBH SCHEDULE									
SERVICE: 208/120V (3PH) 4W									
EQUIPMENT	RECEPT	LOAD	CIR	CIR	CIR	LOAD	RECEPT	EQUIPMENT	
		KVA	AMP	P	BUS				
OVEN	0	8.00	30A2P	1	2	30A2P	8.00	0 OVEN	
WIRE SIZE	# 6	3	4	10	WIRE SIZE	# 6	4.50	0 COOK TOP	
OVEN	0	8.00	30A2P	5	6	30A2P	4.50	0 COOK TOP	
WIRE SIZE	# 6	3	4	10	WIRE SIZE	# 6	4.50	0 COOK TOP	
COOK TOP	0	4.50	30A2P	9	10	30A2P	4.50	0 COOK TOP	
WIRE SIZE	# 10	11	12	14	30A2P	1.44	8 RECEPT		
RECEPT	8	1.44	20A1P	13	14	20A1P	1.44	0 DISPOSAL	
RECEPT	8	1.44	20A1P	15	16	20A1P	1.44	8 RECEPT	
RECEPT	8	1.44	20A1P	17	18	20A1P	1.44	0 EXH FANS	
REFRIG	0	0.70	15A1P	19	20	15A1P	0.70	0 EXH FANS	
DISHWASHER	0	0.70	15A1P	21	22	15A1P	0.70	0 EXH FANS	
WASHER	0	0.70	15A1P	23	24	15A1P	0.70	0 EXH FANS	
SPACE				25	26			SPACE	
SPACE				27	28			SPACE	
SPACE				29	30			SPACE	
SPACE				31	32			SPACE	
SPACE				33	34			SPACE	
SPACE				35	36			SPACE	
SPACE				37	38			SPACE	
SPACE				39	40			SPACE	
SPACE				41	42			SPACE	
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	18.52	16.51	15.02	50.05	A/B BAL	12.2%	PH A 154.4MPS	LOAD (KVA)	20.33
LOAD (KW)	17.99	15.52	14.49	48.00	A/C BAL	23.3%	PH B 138.4MPS	LOAD (KW)	18.06
P.W.F. FACTOR	0.971	0.940	0.964	0.959	B/C BAL	9.9%	PH C 125.4MPS	P.W.F. FACTOR	0.888
MOTORS STD RCP HEATER RANGE APPLNCE TOTAL									
KVA	4.8	7.2	24.0	13.5	49.5				
KW	3.0	7.2	24.0	13.5	47.7				
P.F.	0.616	1.000	1.000	1.000	0.962				
MAIN BREAKER: 225 BUS AMPACITY: 225 PANEL MOUNTING: REC									

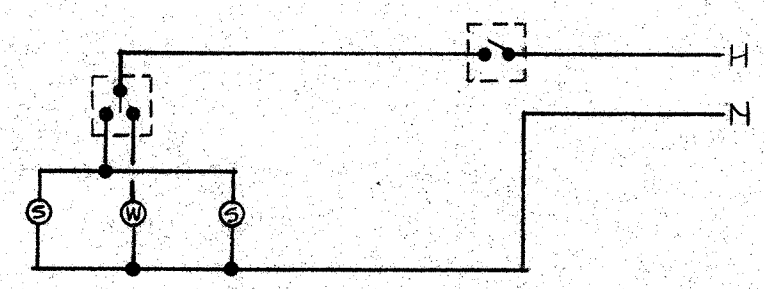
PANEL LBI SCHEDULE									
SERVICE: 208/120V (3PH) 4W									
EQUIPMENT	RECEPT	LOAD	CIR	CIR	CIR	LOAD	RECEPT	EQUIPMENT	
		KVA	AMP	P	BUS				
RECEPT	8	1.44	20A1P	1	2	15A1P	0.86	0 JIG SAW	
RECEPT	8	1.44	20A1P	3	4	20A1P	SHUNT TRIP	SPARE	
RECEPT	8	1.44	20A1P	5	6	20A1P	SPARE	SPARE	
RECEPT	8	1.44	20A1P	7	8	20A1P	SPARE	SPARE	
RECEPT	8	1.44	20A1P	9	10	20A1P	SPARE	SPARE	
RECEPT	8	1.44	20A1P	11	12	20A1P	SPARE	SPARE	
RECEPT	8	1.44	20A1P	13	14	30A3P	6.02	0 PLASTER	
WIRE SIZE	# 12	15	16	18	10	WIRE SIZE	# 10	WIRE SIZE	
WIRE SIZE	# 12	17	18	20	15A3P	1.44	0 LATHE		
SANDER	0	2.05	15A3P	19	20	15A3P	1.44	0 LATHE	
WIRE SIZE	# 12	21	22	24	12	WIRE SIZE	# 12	WIRE SIZE	
WIRE SIZE	# 12	23	24	26	12	WIRE SIZE	# 12	WIRE SIZE	
BAND SAW	0	2.70	15A3P	25	26	15A3P	1.44	0 LATHE	
WIRE SIZE	# 12	27	28	30	12	WIRE SIZE	# 12	WIRE SIZE	
WIRE SIZE	# 12	29	30	32	12	WIRE SIZE	# 12	WIRE SIZE	
DRILL PRES	0	1.12	15A3P	31	32	15A3P	1.44	0 LATHE	
WIRE SIZE	# 12	33	34	36	12	WIRE SIZE	# 12	WIRE SIZE	
WIRE SIZE	# 12	35	36	38	12	WIRE SIZE	# 12	WIRE SIZE	
BENCH GRIND	0	2.70	15A3P	37	38	15A3P	2.70	0 TABLE SAW	
WIRE SIZE	# 12	39	40	42	12	WIRE SIZE	# 12	WIRE SIZE	
WIRE SIZE	# 12	41	42	44	12	WIRE SIZE	# 12	WIRE SIZE	
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	11.85	10.99	33.82	A/B BAL	7.9%	PH A 99.4MPS	LOAD (KVA)	20.33	
LOAD (KW)	10.18	9.64	29.47	A/C BAL	7.9%	PH B 92.4MPS	LOAD (KW)	18.06	
P.W.F. FACTOR	0.859	0.878	0.878	0.871	B/C BAL	0.0%	PH C 92.4MPS	P.W.F. FACTOR	0.888
MOTORS STD RCP HEATER RANGE APPLNCE TOTAL									
KVA	22.9	8.6	31.5						
KW	15.0	8.6	27.7						
P.F.	0.831	1.000	0.878						
MAIN BREAKER: 175 BUS AMPACITY: 225 PANEL MOUNTING: SFC									

SHUNT TRIP BREAKER





MEZZANINE LIGHTING PLAN  
SCALE 1/8"=1'-0"



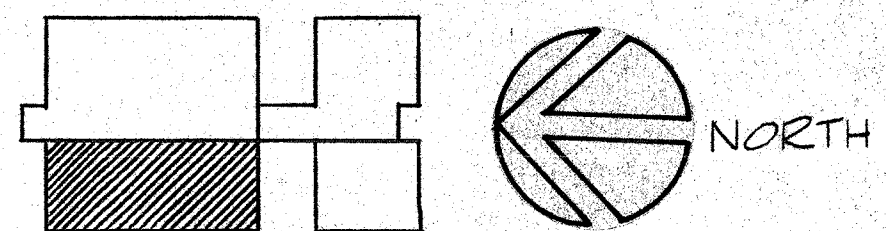
DARK ROOM WIRING  
DIAGRAM  
N.T.S.

NOTE: ALL FIXTURES TYPE "A" UNLESS OTHERWISE NOTED.  
QUADRANT "B" LIGHTING PLAN  
SCALE: 1/8"=1'-0"

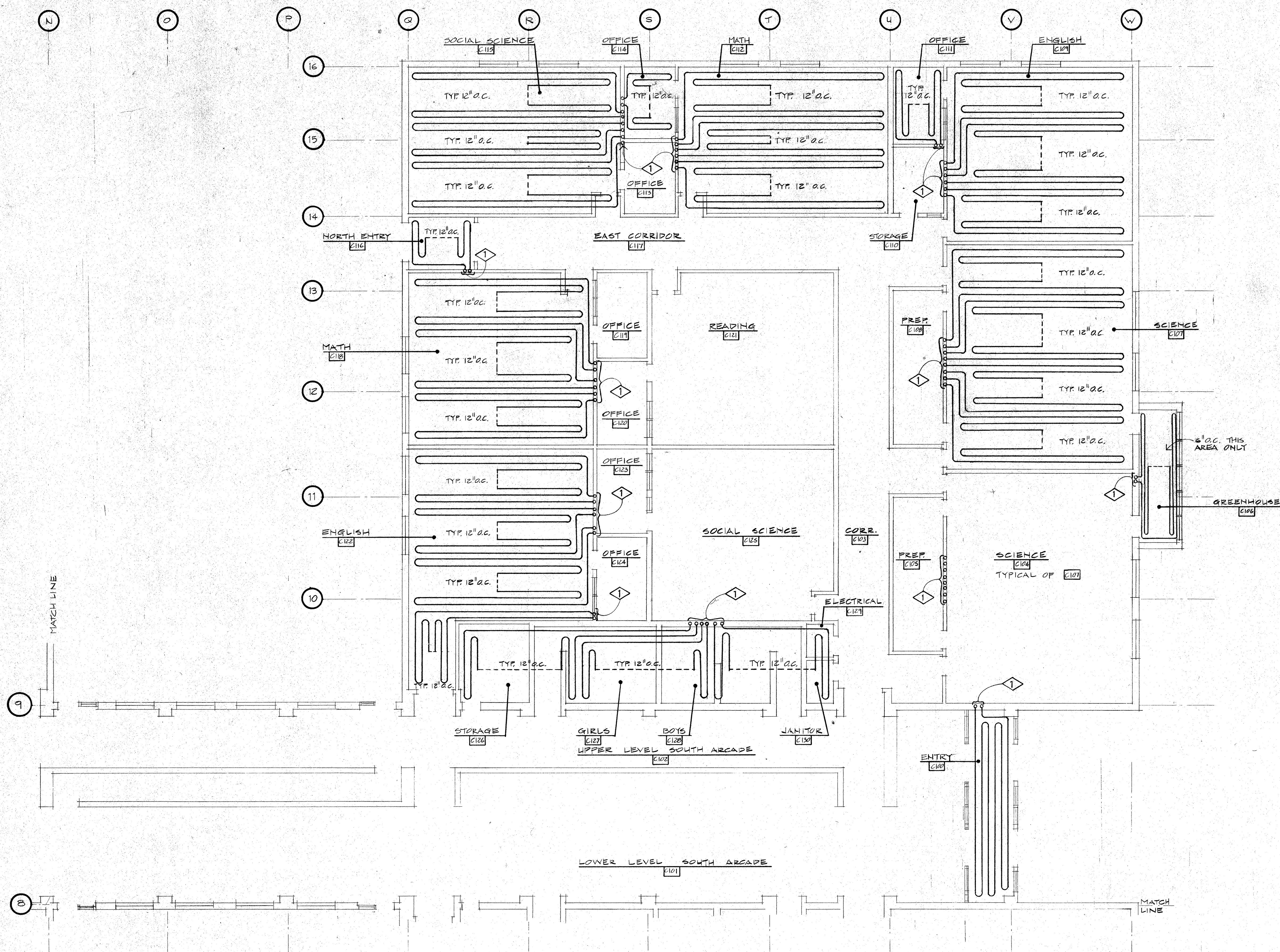
PANEL LBSW SCHEDULE									
SERVICE: 208/120V (3PH) 4W									
EQUIPMENT	RECEPT	LOAD KVA	CIR AMP	CIR AMP	CIR AMP	LOAD KVA	RECEPT	EQUIPMENT	
HD DRYER	0	1.38	20A1P	1	2	20A1P	1.38	0	HD DRYER
HD DRYER	0	1.38	20A1P	3	4	20A1P	1.38	0	HD DRYER
HD DRYER	0	1.38	20A1P	5	6	20A1P	1.38	0	HD DRYER
HD DRYER	0	1.38	20A1P	7	8	20A1P	1.38	0	HD DRYER
HD DRYER	0	1.38	20A1P	9	10	20A1P	1.38	0	HD DRYER
HD DRYER	0	1.38	20A1P	11	12	15A1P	0.70	0	EX FAN
HD DRYER	0	1.38	20A1P	13	14	20A1P			
RECEPT	0	1.62	20A1P	15	16	20A1P	1.38	0	HD DRYER
WHIRL POOL	0	0.70	15A1P	17	18	20A1P	1.38	0	HD DRYER
BLEACHERS	0	1.20	15A1P	19	20	20A1P	1.18	0	BACK RD
BLEACHERS	0	1.20	15A1P	21	22	20A1P	1.18	0	BACK RD
BLEACHERS	0	1.20	15A1P	23	24	20A1P	1.18	0	BACK RD
BLEACHERS	0	1.20	15A1P	25	26	20A1P	1.18	0	BACK RD
CURTAIN MT	0	1.92	30A1P	27	28	20A1P	1.18	0	BACK RD
VACUUM	0	1.92	30A1P	29	30	20A1P	1.18	0	BACK RD
VACUUM	0	1.18	20A1P	31	32	40A2P	6.00	0	DRYER
CONTROLS	0	1.50	20A1P	33	34		8 WIRE SIZE		
SCOREBRD	0	1.50	20A1P	35	36	40A2P	6.00	0	DRYER
SCOREBRD	0	1.50	20A1P	37	38		8 WIRE SIZE		
EXH FANS	0	0.70	15A1P	39	40	30A1P	1.66	0	WASHER
RECIRC. PU	0	0.70	15A1P	41	42	30A1P	1.66	0	WASHER
TOTAL									
LOAD (KVA)	20.33	20.84	19.24	60.41	A/B BAL	2.5%	PH A 169.AMPS		
LOAD (KW)	19.06	17.86	15.71	51.63	A/C BAL	5.7%	PH B 174.AMPS		
P.W.R. FACTOR	0.888	0.857	0.817	0.855	R/C BAL	8.4%	PH C 160.AMPS		
MOTORS STD RCP HEATER OTHR LD TOTAL									
KVA	20.0	1.6	31.3	4.5	57.4				
KW	12.4	1.6	31.3	4.5	49.8				
P.F.	0.618	1.000	1.000	1.000	0.867				
MAIN BREAKER: 225 BUS AMPACITY: 225 PANEL MOUNTING: SFC									

DETAIL NOTES THIS SHEET

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



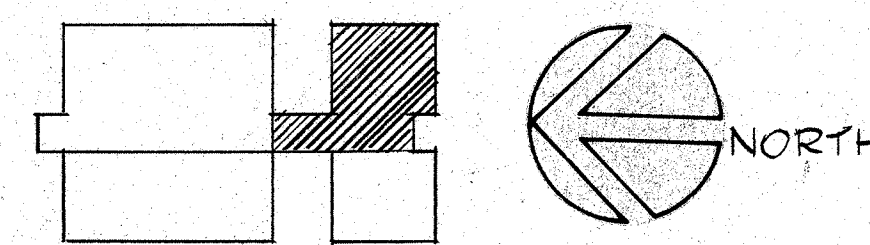




QUADRANT "C" HEATING FLOOR PLAN  
SCALE: 1/8" = 1'-0"

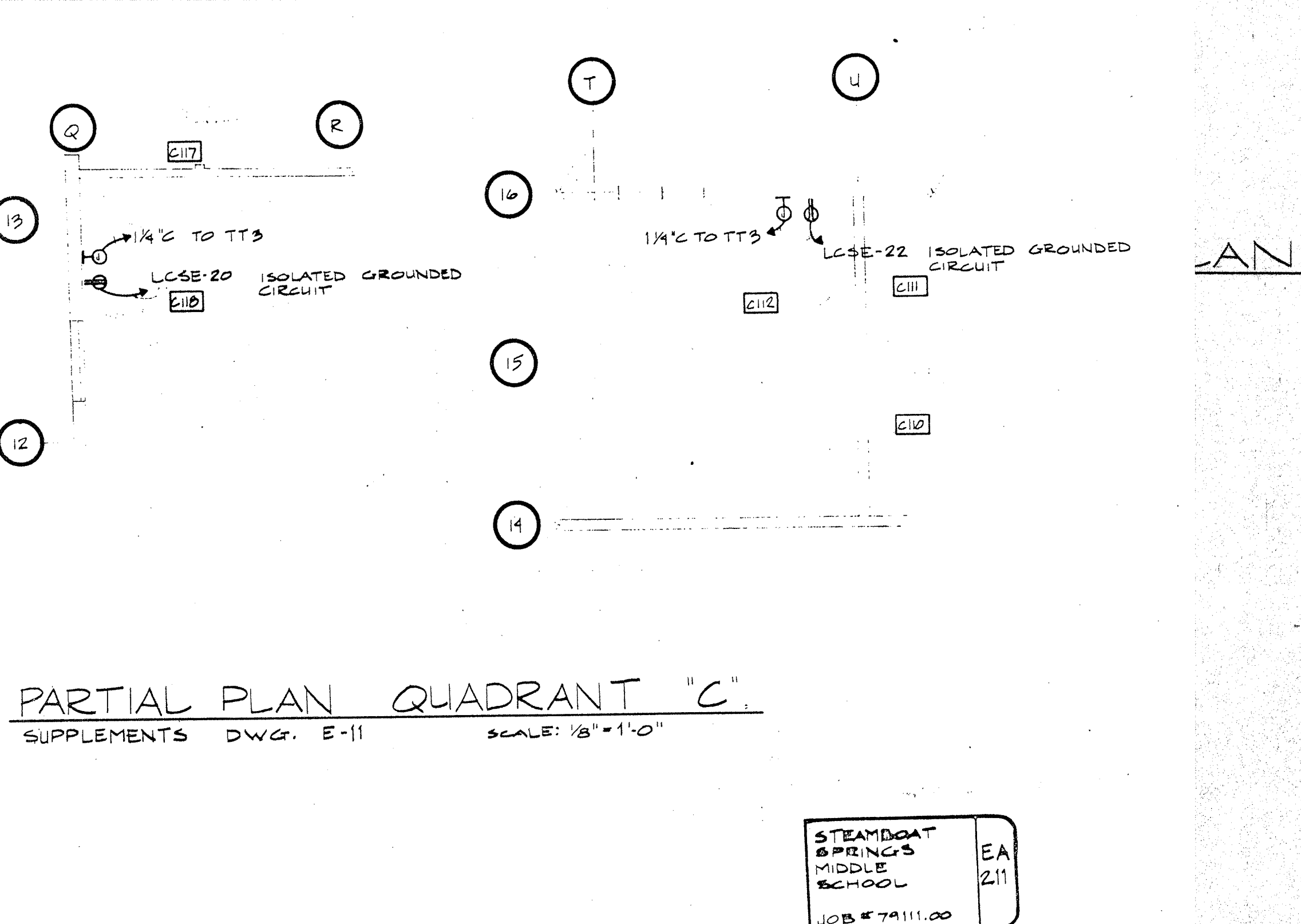
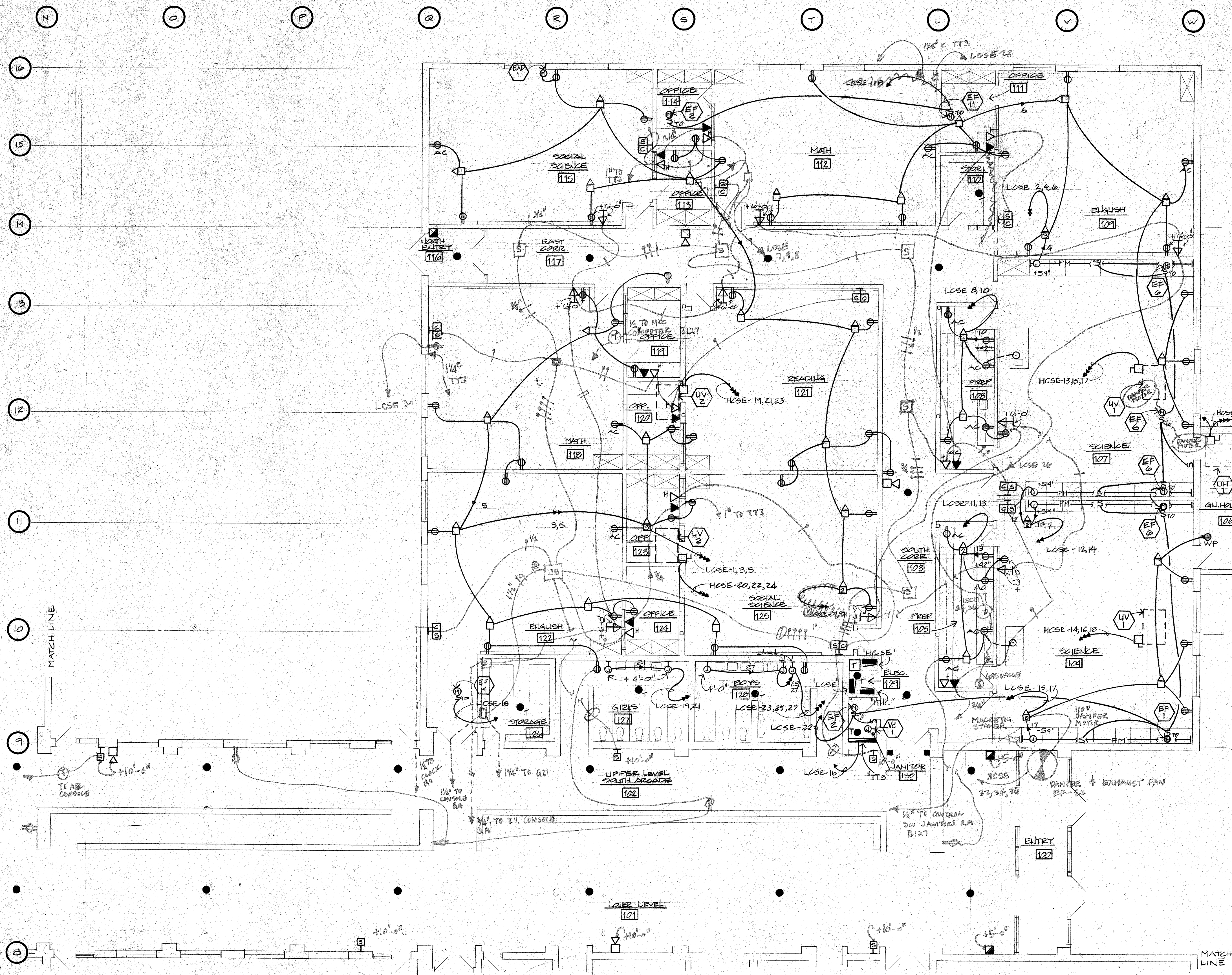
DETAIL NOTES THIS SHEET ONLY

◇ EXTEND COLD LEADS UP TO TRANSFORMERS ABOVE CEILING - REFERENCE LIGHTING PLAN SHEET E-12 FOR TRANSFORMER LOCATIONS.



PANEL		HMC		SCHEDULE					
SERVICE: 480/277V (3PH) 4W									
EQUIPMENT	RECP	LOAD	CIRC	BR	CIR	CIRC	BR	LOAD	#
				AMP	BUS		AMP		
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
TRANSF	0	3.00	15A1P	27		28	15A1P	3.00	0 TRANSF
TRANSF	0	3.00	15A1P	29		30	15A1P	3.00	0 TRANSF
SPACE	0	3.00	15A1P	31		32	15A1P	3.00	0 SPACE
SPACE				33		34			SPACE
SPACE				35		36			SPACE
SPACE				37		38			SPACE
SPACE				39		40			SPACE
SPACE				41		42			SPACE
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	30.00	30.00	30.00	90.00	A/B BAL	0.0%	PH A 108,AMPS		
LOAD (KW)	30.00	30.00	30.00	90.00	A/C BAL	0.0%	PH B 108,AMPS		
PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL	0.0%	PH C 108,AMPS		
XFMR TOTAL									
KVA	90.0	90.0							
KW	90.0	90.0							
P.F.	1.000	1.000							
MAIN BREAKER: MLO BUS AMPACITY: 225 PANEL MOUNTING: SFC									



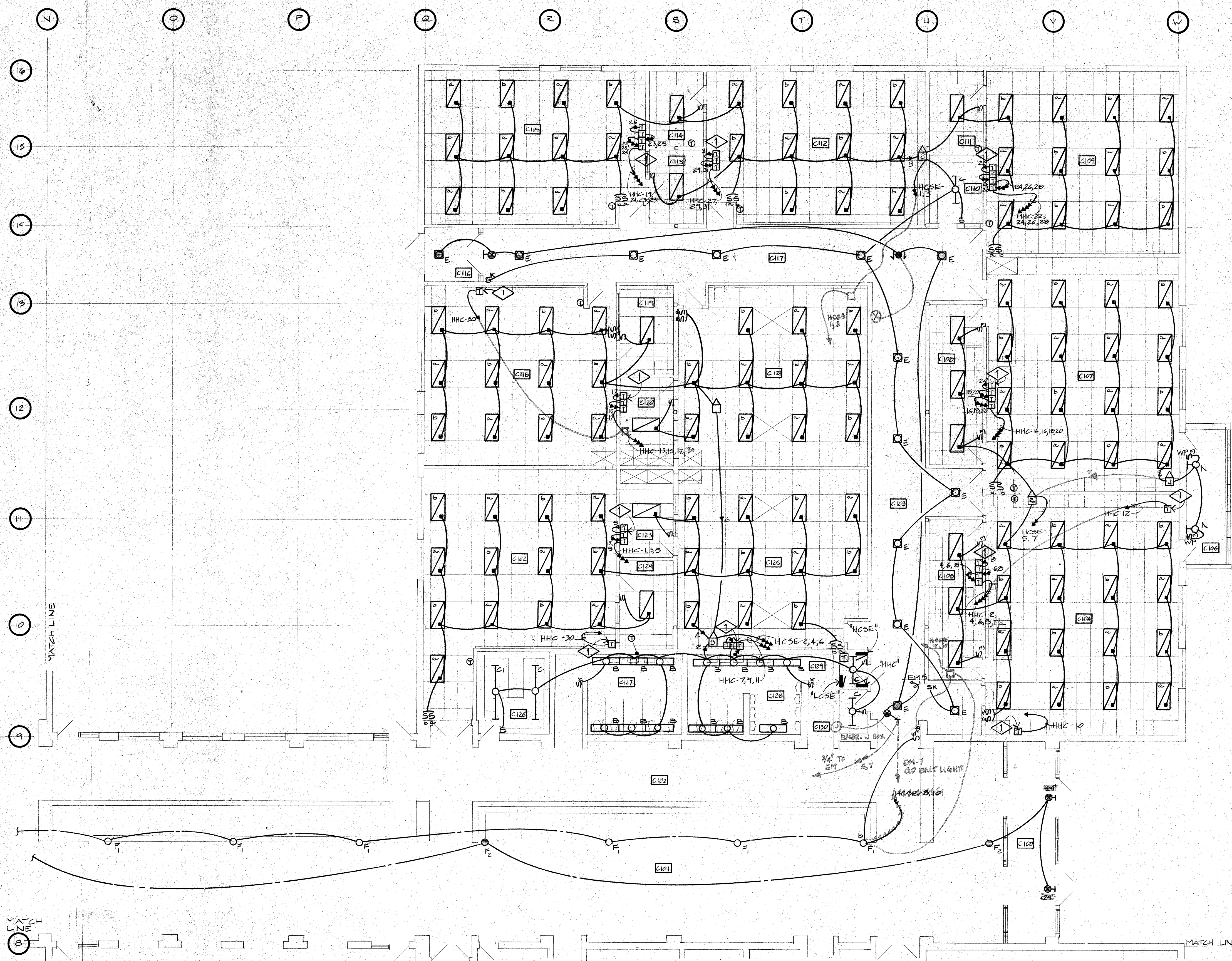


Mechanical Equipment Schedule													
Description	Characteristics				Supply Data				Fire Protection				Remarks
	hp	KW	FLA	Volts	Feeder Wire Size	Branch Circuit Breaker	Control Switch	Fuse	Control	By	CFM	Detection	
EF-1 EXHAUST FAN	1/15	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	100	—	
EF-2 EXHAUST FAN	1/15	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	100	—	
EF-3 EXHAUST FAN	1/50	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	120	—	
EF-4 EXHAUST FAN	1/40	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	200	—	
EF-5 EXHAUST FAN	1/40	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	220	—	
EF-6 EXHAUST FAN	1/20	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	280	—	
EF-7 EXHAUST FAN	1/30	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	330	—	
EF-8 EXHAUST FAN	1/15	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	420	—	
EF-9 EXHAUST FAN	1/20	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	440	—	
EF-10 EXHAUST FAN	1/20	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	480	—	
EF-11 EXHAUST FAN	1/12	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	500	—	
EF-12 EXHAUST FAN	1/12	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	600	—	
EF-13 EXHAUST FAN	1/12	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	650	—	
EF-14 EXHAUST FAN	1/6	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	750	—	
EF-15 EXHAUST FAN	1/4	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	840	—	
EF-16 EXHAUST FAN	1/6	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	960	—	
EF-17 EXHAUST FAN	1/4	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	1440	—	
EF-18 EXHAUST FAN	1/2	—	—	120	1 2#12	1/2 20/1	—	—	WALL SWITCH	EC	1600	—	
EF-19 EXHAUST FAN	3/4	—	—	480	3 3#12+1#12	3/4 15/3	—	—	WALL SWITCH	EC	2400	—	
EF-20 EXHAUST FAN	1/4	—	—	480	3 2#12	1/2 20/1	—	—	WALL SWITCH	EC	1500	—	
EF-21 EXHAUST FAN	3	—	—	480	3 3#12+1#12	3/4 15/3	—	—	WALL SWITCH	EC	6000	—	
EF-22 EXHAUST FAN	3	—	—	480	3 3#12+1#12	3/4 15/3	—	—	WALL SWITCH	EC	6000	—	
UV-1 UNIT VENTILATOR	1/4	16.0	—	480	3 3#12+1#12	3/4 30/3	—	—	INTERLOCK	MC	750	—	
UV-2 UNIT VENTILATOR	1/4	6.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1000	—	
UV-3 UNIT VENTILATOR	1/4	4.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1000	—	
UV-4 UNIT VENTILATOR	1/4	2.13	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1000	—	
UV-5 UNIT VENTILATOR	1/8	3.0	—	480	3 3#12+1#12	1 50/3	—	—	INTERLOCK	MC	1250	—	
UV-6 UNIT VENTILATOR	1/2	5.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1500	—	
UV-7 UNIT VENTILATOR	1/2	6.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1500	—	
UV-8 UNIT VENTILATOR	1/2	6.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1500	—	
UV-9 UNIT VENTILATOR	1/4	6.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	1500	—	
UV-10 UNIT VENTILATOR	1/2	9.0	—	480	3 3#12+1#12	3/4 15/3	—	—	INTERLOCK	MC	2000	—	
V01 VACUUM CONTROL	1/2	—	—	120	1 2#12	1/2 20/1	—	—	—	MC	—	—	
V02 VACUUM CONTROL	1/2	—	—	120	1 2#12	1/2 20/1	—	—	—	MC	—	—	
EAD-1 EXHAUST AIR DAMPER	—	—	—	120	1 2#12	1/2 20/1	—	—	—	MC	—	—	
EAD-2 EXHAUST AIR DAMPER	—	—	—	120	1 2#12	1/2 20/1	—	—	—	MC	—	—	
CONTROLS	—	—	—	120	1 2#12	1/2 20/1	—	—	—	MC	—	—	
UH UNIT HEATER	5.0	—	—	480	3 3#12+1#12	3/4 15/3	—	—	—	MC	—	—	
EF-23 EXHAUST FAN	—	—	—	480	3 3#12+1#12	1/2 15/3	—	—	—	MC	—	—	

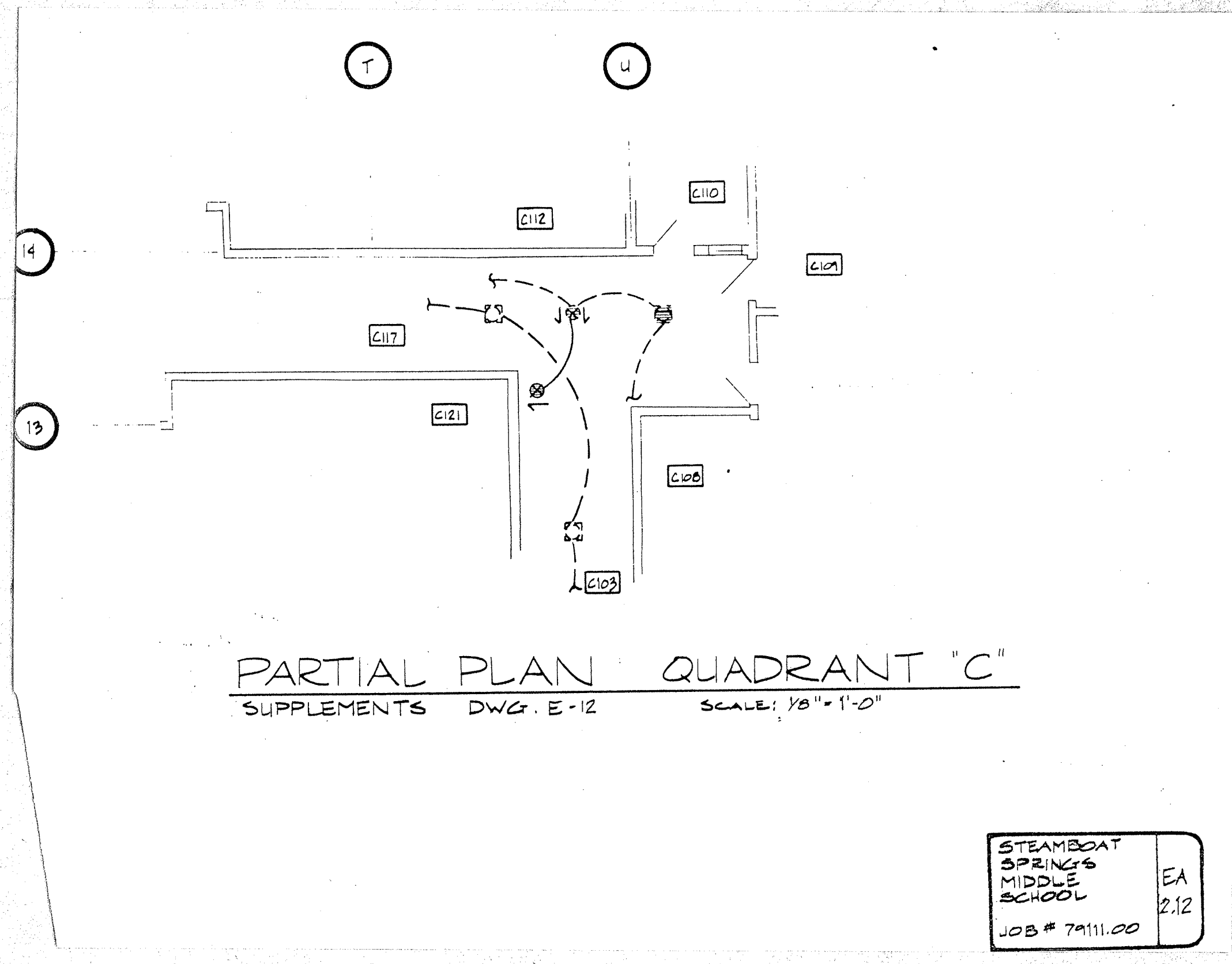
PANEL LCSE SCHEDULE													
SERVICE: 208/120V (3PH) 4W													
EQUIPMENT	RECEPT	LOAD	CIR	AMP	PHASE	CIR	AMP	PHASE	LOAD	RECEPT	EQUIPMENT	RECEPT	LOAD
RECEIPT	7	1.26	20A1P	1	2	20A1P	1.26	7	RECEIPT	7	RECEIPT	7	1.26
RECEIPT	7	1.26	20A1P	3	4	20A1P	1.26	7	RECEIPT	7	RECEIPT	7	1.26
RECEIPT	7	1.26	20A1P	5	6	20A1P	1.26	7	RECEIPT	7	RECEIPT	7	1.26
RECEIPT	7	1.26	20A1P	7	8	20A1P	1.26	7	RECEIPT	7	RECEIPT	7	1.26
RECEIPT	7	1.26	20A1P	9	10	15A1P	0.70	0	REFRIG	1.26	7	RECEIPT	1.26
RECEIPT	7	1.26	20A1P	11	12	20A1P	1.26	7	RECEIPT	1.26	7	RECEIPT	1.26
REFRIG	0	0.70	15A1P	13	14	20A1P	1.26	7	RECEIPT	1.26	7	RECEIPT	1.26
RECEIPT	7	1.26	20A1P	15	16	20A1P	1.18	0	VACUUM	1.18	0	VACUUM	1.18
RECEIPT	7	1.26	20A1P	17	18	15A1P	0.70	0	EXH FAN	0.70	0	EXH FAN	0.70
HD DRYER	0	1.38	20A1P	19	20	20A1P	0.50	0	PUT - COMPU	0.50	0	PUT - COMPU	0.50
HD DRYER	0	1.38	20A1P	21	22	20A1P	0.50	0	PUT - COMPU	0.50	0	PUT - COMPU	0.50
HD DRYER	0	1.38	20A1P	23	24	20A1P	1.18	0	DISPOSAL	1.18	0	DISPOSAL	1.18
HD DRYER	0	1.38	20A1P	25	26	20A1P	1.18	0	DISPOSAL	1.18	0	DISPOSAL	1.18
HD DRYER	0	1.38	20A1P	27	28	20A1P	0.50	0	SPARE	0.50	0	SPARE	0.50
ENH FANS	0	0.70	15A1P	29	30	20A1P	0.50	0	SPARE	0.50	0	SPARE	0.50
PHASE A PHASE B PHASE C TOTAL													
LOAD (KVA)	11.43	10.17	10.25	31.85	A/B BAL 12.4%	PH A 95.4NPS.							
LOAD (KW)	10.72	9.46	9.26	29.44	A/C BAL 11.6%	PH B 85.4NPS.							
P.W.FACTOR	0.937	0.930	0.964	0.964	B/C BAL 0.7%	PH C 85.4NPS.							
MOTORS STD RCP HEATER OTHER LD TOTAL													
KVA	5.7	13.8	6.9	1.0	27.4	1.0	28.4						
KW	5.4	13.1	6.5	1.0	26.0	1.0	27.0						
P.F.	0.617	1.000	1.000	1.000	0.921	1.000	0.921						
MAIN BREAKER: 100 BUS AMPACITY: 100 PANEL MOUNTING: SFC													

T.V. SYSTEM 1/2" O  
 1 = 1/2" SHIELD  
 1 = 1/2" SHIELD  
 0 = ARCADE





PANEL HOSE SCHEDULE									
SERVICE: 480/277V (3PH) 4W									
EQUIPMENT	# RECP	LOAD KVA	CIRC BK AMP P	CIR #	BUS	CIR CIRC BK AMP P	LOAD KVA	# RECP	EQUIPMENT
LIGHTING	0	3.27	20A1P	1	2	20A1P	1.67	0	LIGHTING
LIGHTING	0	3.70	20A1P	3	4	20A1P	4.00	0	LIGHTING
LIGHTING	0	2.93	20A1P	5	6	20A1P	3.85	0	LIGHTING
LIGHTING	0	3.37	20A1P	7	8	20A1P	4.49	0	LIGHTING
SPARE			20A1P	9	10	20A1P	2.99	0	LIGHTING
SPARE			20A1P	11	12	20A1P			SPARE
UNIT VENT	0	16.00	30A3P	13	14	30A3P	16.00	0	UNIT VENT
WIRE SIZE #	10			15	16				# 10 WIRE SIZE
WIRE SIZE #	10			17	18				# 10 WIRE SIZE
UNIT VENT	0	6.00	15A3P	19	20	15A3P	6.00	0	UNIT VENT
WIRE SIZE #	12			21	22				# 12 WIRE SIZE
WIRE SIZE #	12			23	24				# 12 WIRE SIZE
UNIT HTR	0	5.00	15A3P	25	26	50A3P	30.00	0	PNL LCSE
WIRE SIZE #	12			27	28				# 6 WIRE SIZE
WIRE SIZE #	12			29	30				# 6 WIRE SIZE
EXH FAN	0	4.74	15A3P	31	32				SPACE
WIRE SIZE #	12			33	34				SPACE
SPACE				35	36				SPACE
SPACE				37	38				SPACE
SPACE				39	40				SPACE
SPACE				41	42				SPACE
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	40.71	38.61	34.69	114.01	A/B BAL	5.3%	PH A 147.AMPS.		
LOAD (KW)	39.74	37.85	34.21	111.79	A/C BAL	17.4%	PH B 139.AMPS.		
PWR.FACTOR	0.976	0.980	0.986	0.981	B/C BAL	11.3%	PH C 125.AMPS.		
LIGHTING MOTORS HEATER XFMR TOTAL									
KVA	37.8	5.9	49.0	30.0	122.8				
KW	35.7	5.3	49.0	30.0	120.0				
P.F.	0.944	0.889	1.000	1.000	0.977				
MAIN BREAKER: MLO				BUS AMPACITY: 225		PANEL MOUNTING: SFC			



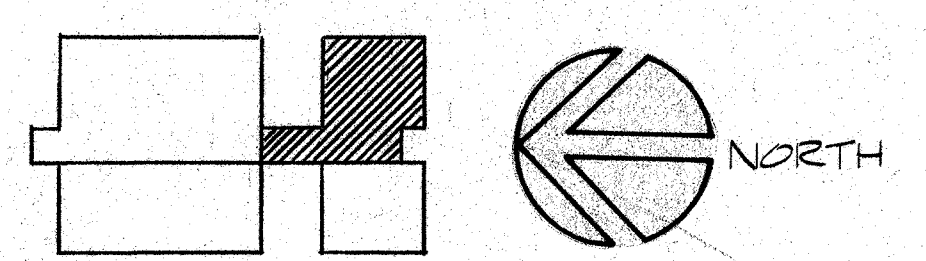
### DETAIL NOTES THIS SHEET

TRANSFORMERS LOCATED IN CEILING SPACE TYPICAL FOR ELECTRIC HEATING SYSTEM. REFERENCE HEATING FLOOR PLAN E-10.

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

### QUADRANT "C" LIGHTING PLAN

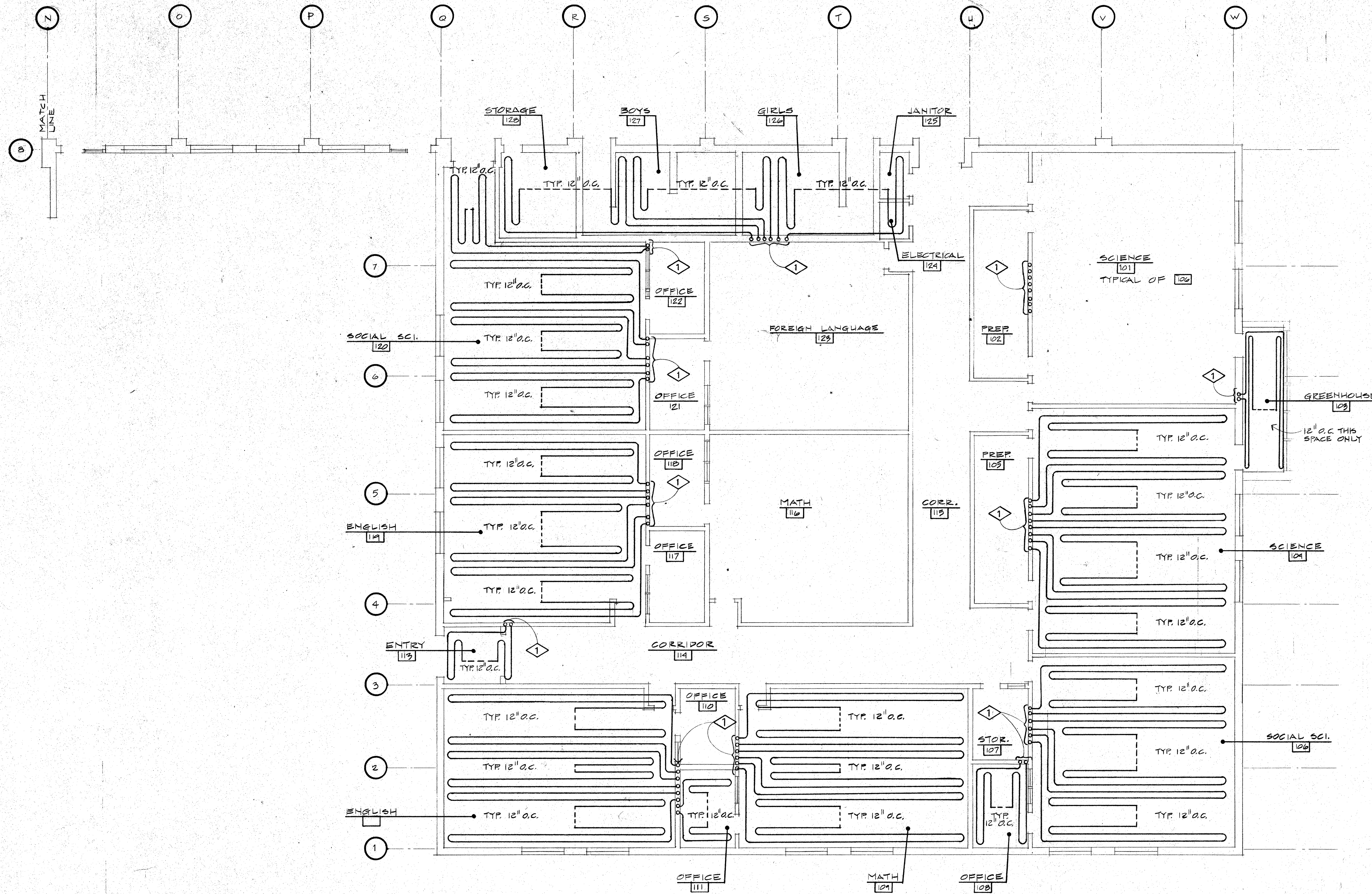
SCALE: 1/8" = 1'-0"



### ELECTRICAL DRAWING SHEET E-12

1. REVISED "HOSE" PANEL SCHEDULE. SEE ATTACHED SCHEDULE.
2. ADD ONE EXIT LIGHT IN CORRIDOR C103, AS INDICATED ON ATTACHED DRAWING, SHEET EA-112.

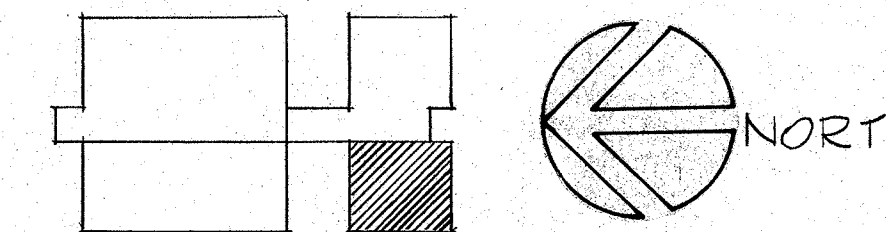




QUADRANT "D" HEATING FLOOR PLAN  
SCALE: 1/8" = 1'-0"

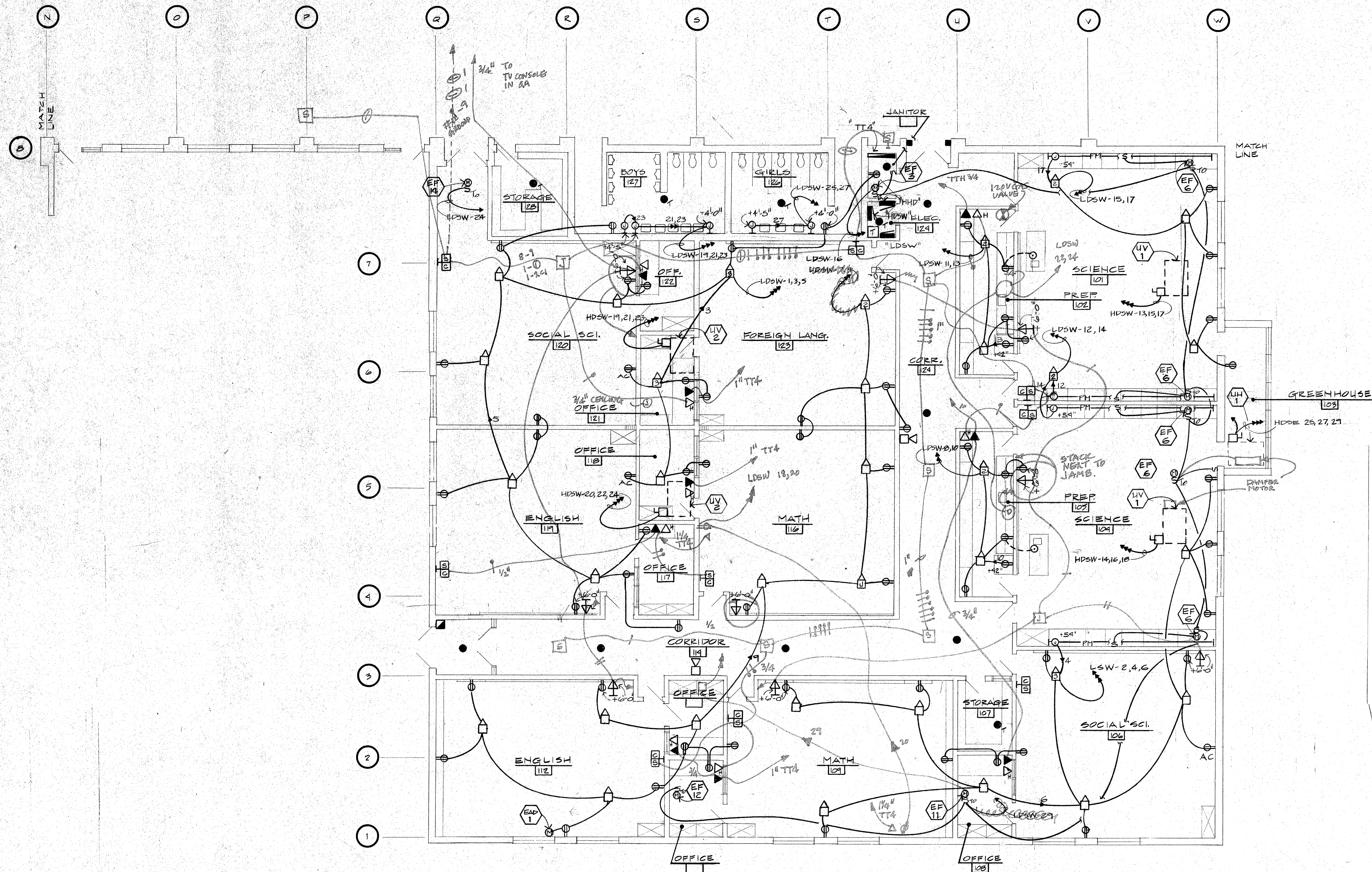
DETAIL NOTES THIS SHEET ONLY

◇ EXTEND COLD LEADS UP TO TRANSFORMERS ABOVE CEILING - REFERENCE LIGHTING PLAN SHEET E-15 FOR TRANSFORMER LOCATION.



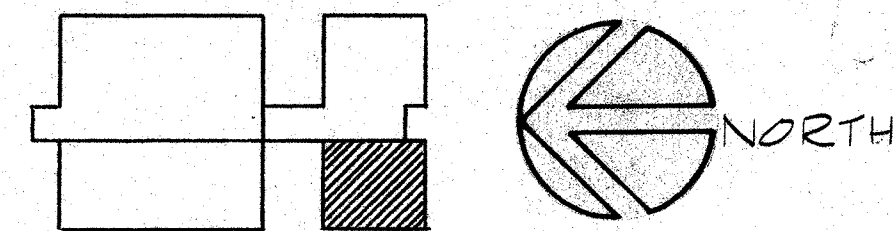
PANEL HHD SCHEDULE									
SERVICE: 480/277V (3PH) 4W									
EQUIPMENT	RECPT	KVA	AMP	P	#	BUS	#	AMP	P
TRANSF	0	3.00	15A1P	1	2	15A1P	3.00	0	TRANSF
TRANSF	0	3.00	15A1P	3	4	15A1P	3.00	0	TRANSF
TRANSF	0	3.00	15A1P	5	6	15A1P	3.00	0	TRANSF
TRANSF	0	3.00	15A1P	7	8	15A1P	3.00	0	TRANSF
TRANSF	0	3.00	15A1P	9	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
TRANSF	0	3.00	15A1P	27	28	15A1P	3.00	0	TRANSF
TRANSF	0	3.00	15A1P	29	30	15A1P	3.00	0	TRANSF
SPACE				31	32				SPACE
SPACE				33	34				SPACE
SPACE				35	36				SPACE
SPACE				37	38				SPACE
SPACE				39	40				SPACE
SPACE				41	42				SPACE
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	30.00	30.00	30.00	90.00	A/B BAL	0.0%	PH A 108.AMPS.		
LOAD (KW)	30.00	30.00	30.00	90.00	A/C BAL	0.0%	PH B 108.AMPS.		
PWR.FACTOR	1.000	1.000	1.000	1.000	B/C BAL	0.0%	PH C 108.AMPS.		
KVA	90.0	90.0							
KW	90.0	90.0							
P.F.	1.000	1.000							
MAIN BREAKER: MLO		BUS AMPACITY: 225		PANEL MOUNTING: SFC					



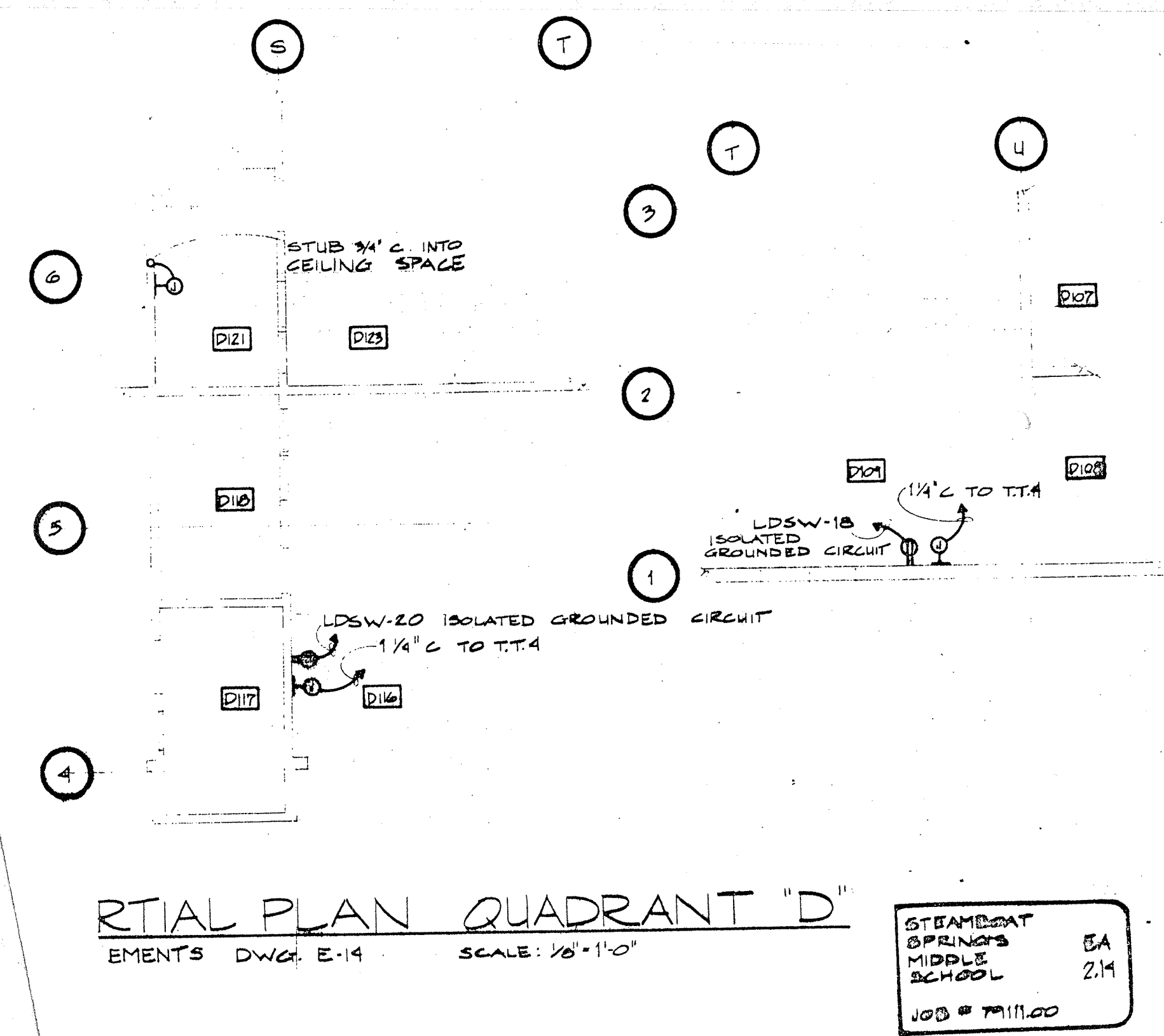


QUADRANT "D" POWER PLAN  
SCALE: 1/8" = 1'-0"

T.V. SYSTEM 1/2"  
SPEAKER  
1 = 1-3/4" 1-2/4" SHIELDED  
1 = 1-3/4" SHIELDED  
① = ARCADE 2/4"



PANEL LDSW SCHEDULE									
SERVICE: 208/120V (3PH) 4W									
EQUIPMENT	RECEPT	LOAD KVA	CIR BK	AMP	CIR BK	AMP	LOAD KVA	RECEPT	EQUIPMENT
RECEPT	7	1.26	20A1P	1	2	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	3	4	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	5	6	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	7	8	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	9	10	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	11	12	20A1P	1.26	7	RECEPT
REFRIG	0	0.70	15A1P	13	14	20A1P	1.26	7	RECEPT
RECEPT	7	1.26	20A1P	15	16	15A1P	0.70	0	EXH FAN
RECEPT	7	1.26	20A1P	17	18	20A1P	0.50	0	FUT. COMPU
HD DRYER	0	1.38	20A1P	19	20	20A1P	0.50	0	FUT. COMPU
HD DRYER	0	1.38	20A1P	21	22	20A1P	1.18	0	DISPOSAL
HD DRYER	0	1.38	20A1P	23	24	20A1P	1.18	0	DISPOSAL
HD DRYER	0	1.38	20A1P	25	26	20A1P			SPARE
HD DRYER	0	1.38	20A1P	27	28	20A1P			SPARE
EXH FANS	0	0.70	15A1P	29	30	20A1P			SPARE
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	10.26	10.93	10.05	31.24	A/B BAL	6.6%	PH A	85.4AMPS	
LOAD (KW)	9.99	10.22	9.34	29.54	A/C BAL	2.0%	PH B	91.4AMPS	
PUR. FACTOR	0.974	0.935	0.929	0.946	B/C BAL	8.8%	PH C	84.4AMPS	
MOTORS STD RCP HEATER OTHER LD TOTAL									
KVA	4.1	14.5	6.9	1.0	26.4				
KW	2.5	14.5	6.9	1.0	24.9				
P.F.	0.617	1.000	1.000	1.000	0.941				
MAIN BREAKER: 100 BUS AMFACILITY: 100 PANEL MOUNTING: SFC									



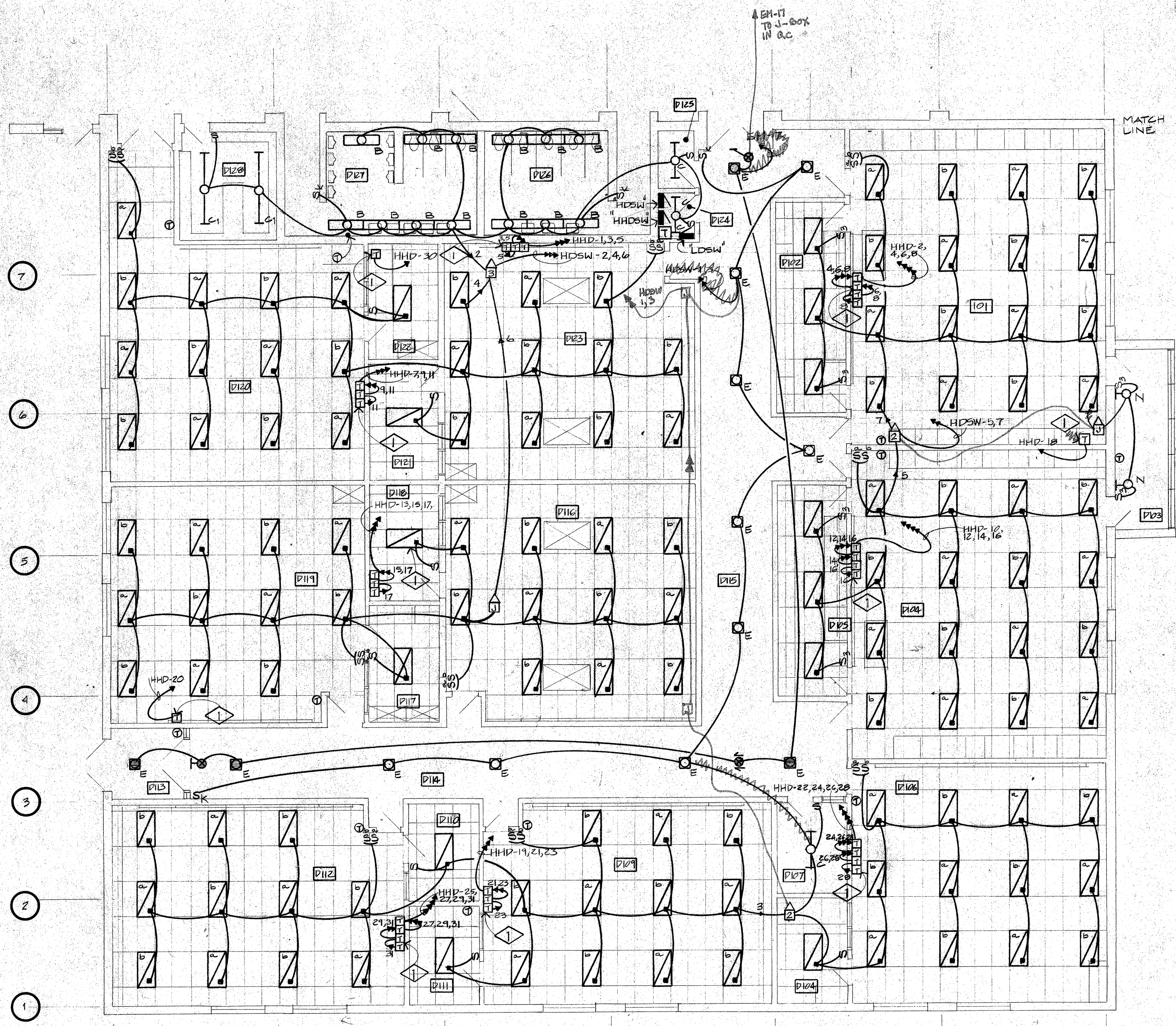
RTIAL PLAN QUADRANT "D"  
ELEMENTS DWG. E-14 SCALE: 1/8" = 1'-0"

STEAMBOAT SPRINGS MIDDLE SCHOOL  
JOB # 79111.00  
EA 2.14

Electrical Drawing Sheet E-14

- Provide five (5) flush-mounted ceiling speakers spaced equally in center of corridors D114 and D115.
- Note: All items above are reflected on the attached drawing, Sheet E-3A.
- Provide 120V power to damper motors in Rooms D104 and D101. Power shall be extended from the nearest receptacle. For exact location, reference mechanical drawings.
- Provide flush-mounted junction boxes and isolated duplex receptacles in Rooms D109, D116 and D118 as indicated on attached drawing, Sheet EA-1.14.
- Revised "LDSW" panel schedule. See attached schedule.
- Provide, install and locate a switch near the east door of Room D102. Connect to the nearest 120V receptacle. Extend and connect switch to the electric gas valve located in the arcade near Columns U-8 with 2#12 conductors in 1/2" conduit. Reference mechanical drawings for exact location.
- Extend and connect Circuits LDSW-22,24 to the 1/2HP, 120V, 1 phase disposals in Rooms D102 and D105. Provide and install a switch above each counter and connect to the respective disposal. Reference mechanical drawings for exact location.
- Delete door closers from fire alarm system.

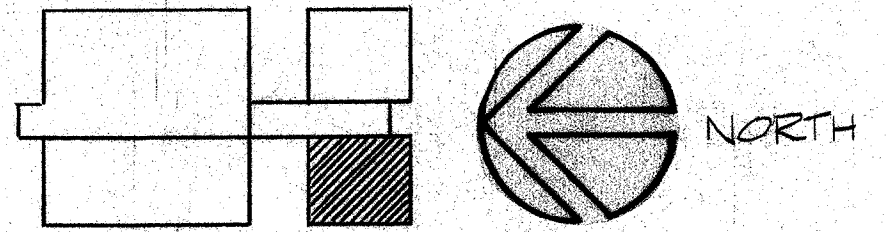




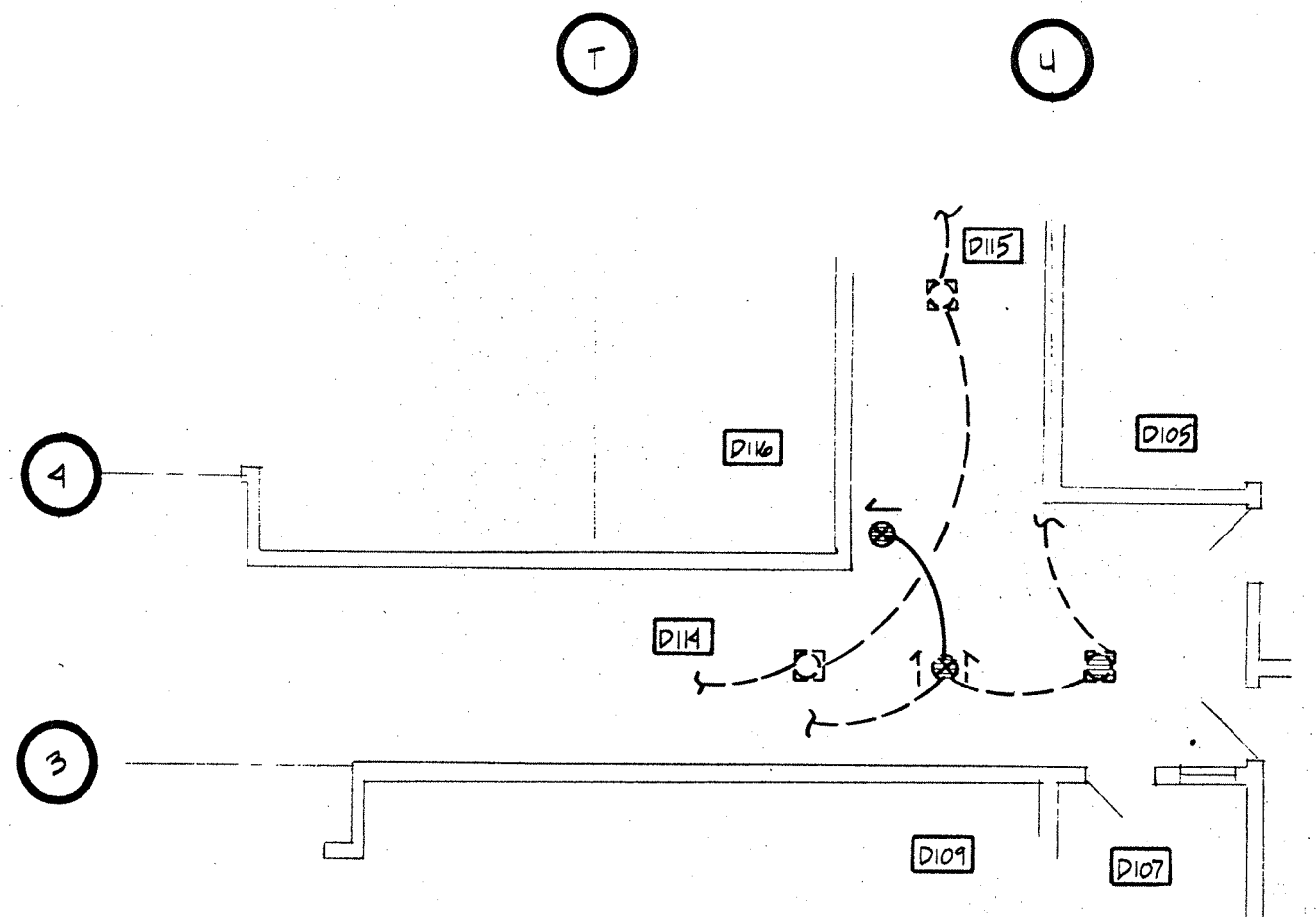
NOTE: ALL FIXTURES TYPE "A" UNLESS OTHERWISE NOTED.  
QUADRANT "D" LIGHTING PLAN  
SCALE: 1/8" = 1'-0"

DETAIL NOTES THIS SHEET

- TRANSFORMERS LOCATED IN CEILING SPACE  
TYPICAL FOR ELECTRIC HEATING SYSTEM.  
REFERENCE HEATING FLOOR PLAN SHEET E-13.



PANEL			HDSW		SCHEDULE				
SERVICE: 480/277V (3PH) 4W									
EQUIPMENT	RECP	LOAD KVA	CIRC BK	CIR	#	AMP P	KVA	RECP	EQUIPMENT
LIGHTING	0	3.27	20A1P	1	2	20A1P	1.67	0	LIGHTING
LIGHTING	0	3.70	20A1P	3	4	20A1P	4.00	0	LIGHTING
LIGHTING	0	2.93	20A1P	5	6	20A1P	3.85	0	LIGHTING
SPARE			20A1P	7	8	20A1P			SPARE
SPARE			20A1P	9	10	20A1P			SPARE
UNIT VENT	0	16.00	30A3P	11	12	20A1P	16.00	0	UNIT VENT
WIRE SIZE	# 10		15	16				# 10	WIRE SIZE
WIRE SIZE	# 10		17	18				# 10	WIRE SIZE
UNIT VENT	0	6.00	15A3P	19	20	15A3P	6.00	0	UNIT VENT
WIRE SIZE	# 12		21	22				# 12	WIRE SIZE
WIRE SIZE	# 12		23	24				# 12	WIRE SIZE
UNIT HTR	0	5.00	15A3P	25	26	50A3P	30.00	0	PNL-LOGW
WIRE SIZE	# 12		27	28				# 6	WIRE SIZE
WIRE SIZE	# 12		29	30				# 6	WIRE SIZE
SPACE			31	32					SPACE
SPACE			33	34					SPACE
SPACE			35	36					SPACE
SPACE			37	38					SPA1
SPACE			39	40					SPACE
SPACE			41	42					SPACE
PHASE A PHASE B PHASE C TOTAL									
LOAD (KVA)	34.64	34.03	33.11	101.78	A/B BAL	1.82	PH A	125.AMPS.	
LOAD (KW)	34.19	33.58	32.60	100.38	A/C BAL	4.62	PH B	123.AMPS.	
PWR.FACTOR	0.987	0.990	0.991	0.989	B/C BAL	2.82	PH C	120.AMPS.	
LIGHTING	HEATER	XFHR	TOTAL						
KVA	28.5	49.0	30.0	107.5					
KW	27.1	49.0	30.0	106.1					
P.F.	0.951	1.000	1.000	0.987					
MAIN BREAKER: MLO		BUS AMPACITY: 225		PANEL MOUNTING: SFC					



PARTIAL PLAN QUADRANT "D"  
SUPPLEMENTS DWG. E-15 SCALE: 1/8" = 1'-0"

STEAMBOAT  
SPRINGS  
MIDDLE  
SCHOOL  
JOB # 79111.00  
EA  
215

Electrical Drawing Sheet E-15

- Add one (1) exit light in Corridor D115 as indicated on attached drawing, Sheet EA-115.

General

Extend and connect the fire alarm signal wiring to the fire damper control relays and provide 120V power to fire damper motors located in the arcade wall, two between columns I and J-9 and one near columns K-9, two between columns I and J-8, one near columns K-8 and two between columns R and S-9. Typical of eight connections. Reference mechanical drawings for exact locations.

Provide two 175 metal halide wall mounted Crouse-Hinds #EVMBX92170/277/RD73 lighting fixtures in room D110. Mount fixtures under exhaust hood at 5'11" A.F.P. to top of fixture. Connect to circuit and switch shown on sheet E-9. Change type "P" fixture to Crouse-Hinds #EVMCX92250/277/RD73.



RELOCATED ICE MACHINE  
FIELD VERIFY REQUIREMENTS  
PRIOR TO RELOCATION

NEW OVEN STACKED OVER OLD.  
DISCONNECT EXISTING OVEN THAT WAS  
TAP FED OFF THE EXISTING DISH  
WASHER BOOSTER HEATER AND REFEED  
FROM NEW PANEL. FEED NEW OVEN WITH A  
NEW CIRCUIT AS INDICATED.

PROVIDE A THROUGH WALL EXHAUST  
FAN AND INTERCONNECT IT TO A  
MOTORIZED INLET DAMPER CONTROL BOTH  
UNIT WITH A LINE VOLTAGE WALL MOUNT  
T-STAT.

LANE2-135  
(H) 10  
LANE2-13  
LANE2-12,14,16  
LANE2-2,4,6  
LANE2-8,10  
LANE2-9,11  
LANE2-12,14,16  
LANE2-13  
LANE2-15,17  
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LANE2-99  
LANE2-100

NEW PNL  
LEGEND  
NEW TX FOR LBS402

NOTE: NEMA-5-20-R RECEPTACLES  
SHALL BE UTILIZED THROUGH OUT  
UNLESS OTHER WISE NOTED.

OVERHEAD POWER @  
EA COLUMN SURFACE MOUNT  
BEHIND THE DROP SOFFIT(TYPICAL)

HA  
JAN  
7/11/13  
15,17

SNOW  
WELL

CALLING  
EXISTING  
LIGHTING  
W/OUT  
POWER

CALLING  
EXISTING  
W/OUT  
POWER

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ROUTE THE CONDUIT FEEDERS ON THE BACK SIDE OF THE STAGE DROPPED SOFFIT AS HIGH AS POSSIBLE. THEN ACROSS THE BREEZE WAY TO THE FEEDER PANEL. COORDINATE THE ROUTING WITH THE SCHOOL DISTRICT REPRESENTATIVE PRIOR TO ANY ROUGH-IN.

STUB (2) 2-1/2" CONDUITS ACROSS THE BREEZE WAY TO THE TELEPHONE BOARD IN THE MAIN ELECTRICAL ROOM FOR FUTURE SPECIAL SYSTEM USE.

[illegible][illegible]

STEAMBOAT SPRINGS SCHOOL DIST. RE-2  
STEAMBOAT SPRINGS MIDDLE SCHOOL  
5100 Amethyst Drive  
Steamboat Springs, Colorado

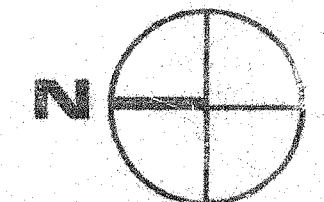


JOB NO.	02033-03
DATE	03 JUL 02
DRAWN	CMF
CHECKED	LUF

**DRAWING PHASE**  
CONSTRUCTION  
DOCUMENTS

DOCUMENT NO.	
SHEET TITLE	
CAFETORIUM REMODEL	
ELECTRICAL PLAN	

**E210**





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