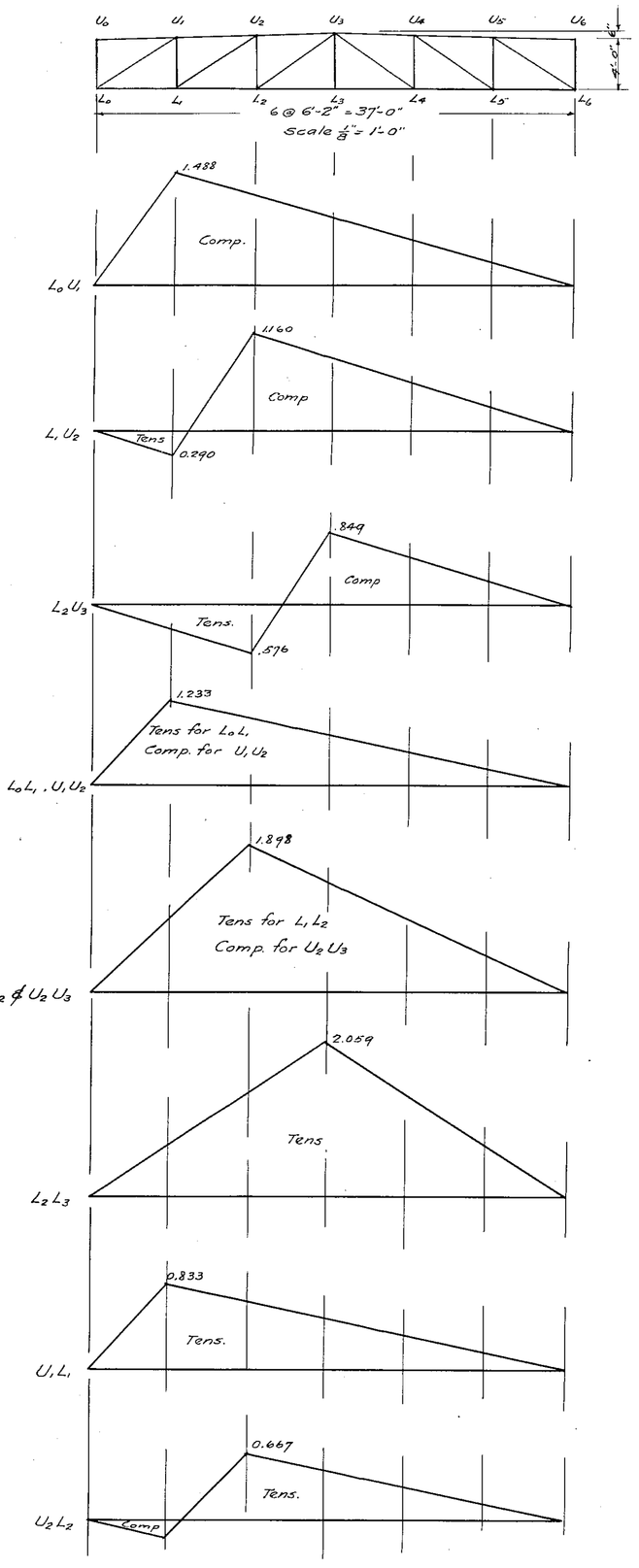
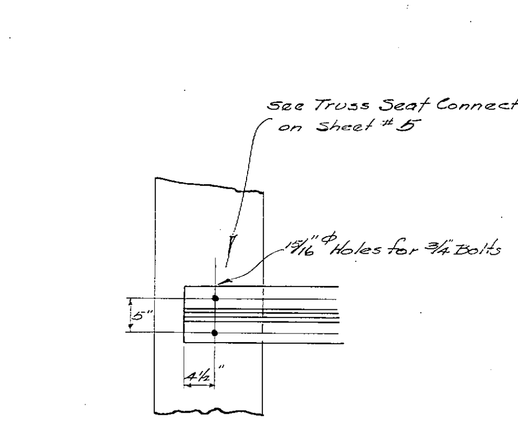
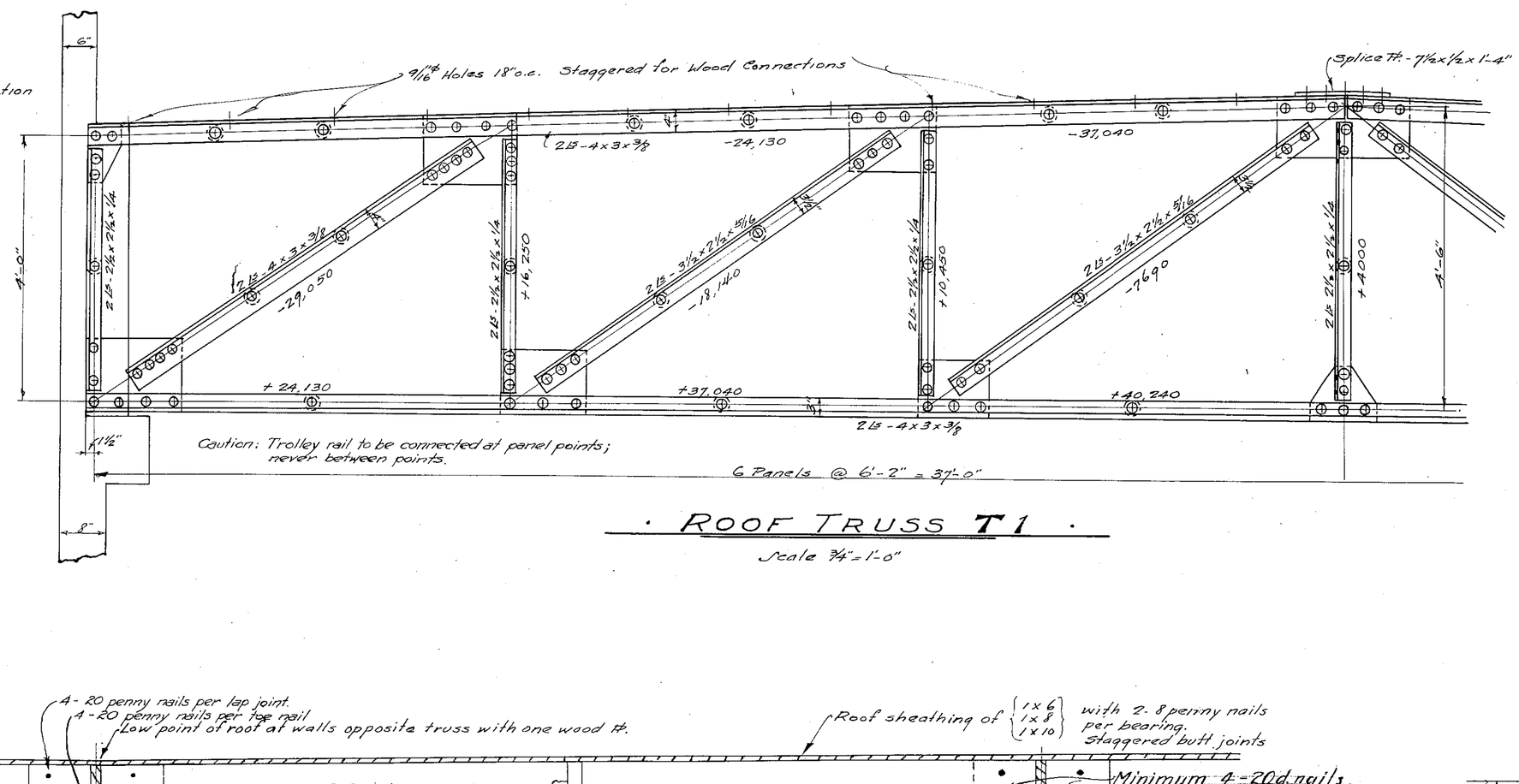
2-1-34
F.C.C.



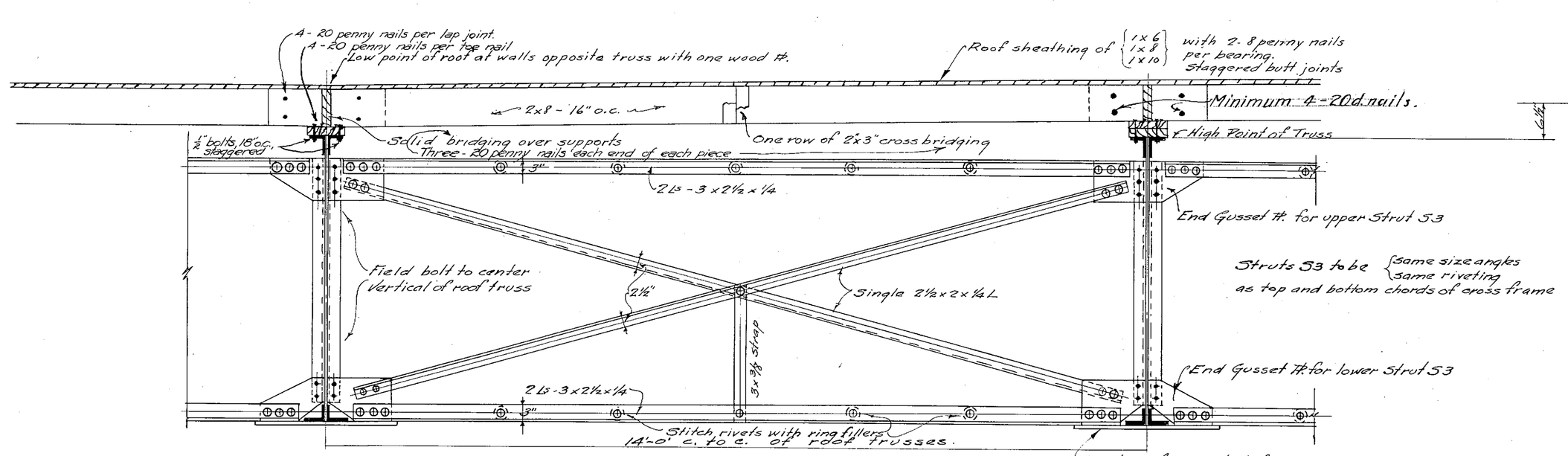

INFLUENCE LINES FOR TRUSS



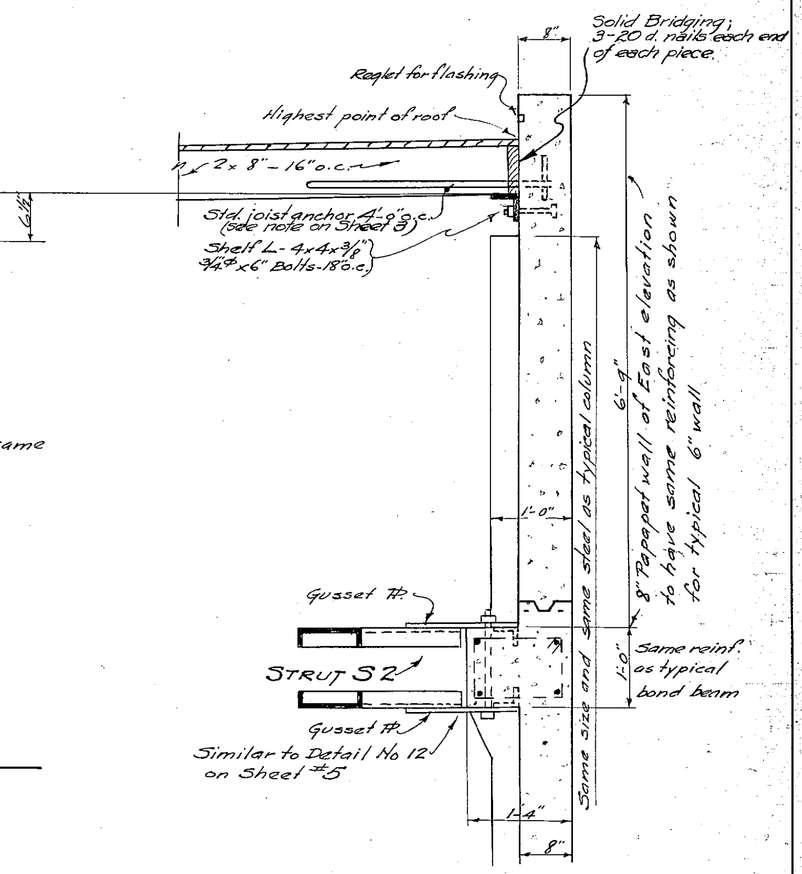

· PLAN OF ·
· END OF BOTTOM CHORD ·
Scale 3/4" = 1'-0"




· ROOF TRUSS T1 ·
Scale 3/4" = 1'-0"




· ELEVATION of CROSS FRAME & PART of STRUT S3 ·
Scale 3/4" = 1'-0"
Rivets and Bolts 3/4" ϕ Gusset Pls. 3/8"
See Sheet No 3 for connection at cross wall.




· SECTION - TOP PORTION - EAST WALL ·
Scale 3/4" = 1'-0"
North Wall of Wash Room similar except Strut

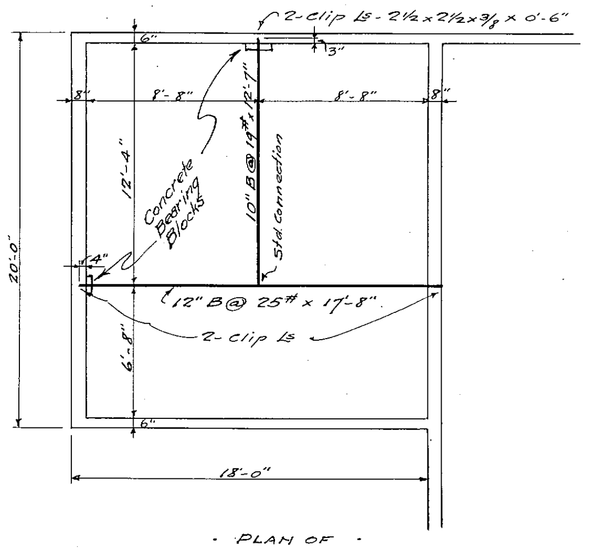
## ROOF TRUSS LOADING

| | lb. per sq. ft. |
|---|---|
| Live Load | 30 |
| Roofing | 10 |
| Sheathing | 3 |
| Joists | 5 |
| Sub Total | 48 on joists |
| Vertical Trusses | 8 |
| Bracing & Horiz. Truss | 4 |
| Total | 60 on roof truss |

Moving load on any one panel point 4000 lb.

| Member | Index | Multiplier | Stress 1 | Multiplier | Stress 2 | Total Stress |
|---|---|---|---|---|---|---|
| $U_0U_1$ | 0 | | 0 | | 0 | 0 |
| $U_1U_2$ | 1.233 | | -19,200 | | -4930 | -24130 |
| $U_2U_3$ | 1.398 | (60 x 14 = 840) | -29,450 | | -7590 | -37040 |
| $L_0L_1$ | 1.233 | 840 x 0.5 x 37 | +19,200 | | +4930 | +24130 |
| $L_1L_2$ | 1.898 | | +29,450 | | +7590 | +37040 |
| $L_2L_3$ | 2.059 | | +32,000 | | +8240 | +40240 |
| $L_0U_1$ | 1.488 | | -23,100 | | -5950 | -29050 |
| $U_1L_1$ | 0.833 | | +12,920 | 4000 | +3330 | +16250 |
| $L_1U_2$ | 1.160 | 840 x 0.5 x 29.6 | +13,500 | | -4640 | -18140 |
| | 0.290 | -840 x 0.5 x 7.4 | | | +1160 | |
| $L_2U_3$ | 0.849 | 840 x 0.5 x 22.2 | -9320 | | -3370 | -7690 |
| | 0.576 | -840 x 0.5 x 14.8 | | | +2300 | |
| $U_2L_2$ | 0.667 | 840 x 0.5 x 29.6 | +7780 | | +2670 | +10450 |
| | 0.167 | -840 x 0.5 x 7.4 | | | -670 | |
| $U_4L_4$ | 0 | | 0 | | 0 | 0 |
| $U_3L_3$ | 1 | 0 | 0 | | +4000 | +4000 |

TABLE SHOWING
MAXIMUM STRESSES IN TRUSS MEMBERS




· PLAN OF ·
· BEAMS over ENGINE ROOM ·
Scale 3/16" = 1'-0"

## · NOTES ·

Structural Steel shall conform to "Standard Specifications for Structural Steel for Bridges" (Serial designation: A7-29) of A.S.T.M.
All rivets and bolts - ¾" ϕ.
All gusset Pls. ⅜" thick.
Riveting to be done in accordance with Section 3209 Uniform Bldg. Code.
All structural steel to receive one shop coat and one field coat of Red Lead Paint
See Sheet #5 for framing Plan showing Horizontal Truss.
WELDING:
All welding shall comply with Sect. 2710 of Uniform Building Code.

DATE OF ISSUE
PLAN CHECK
136 C.H. Kramer per F.A.J.

AERONAUTICS BUILDING
CHAFFEY JUNIOR COLLEGE
ONTARIO. CALIF.

SCALES AS SHOWN
JANUARY 1934
FEB. 5, 1934.

Drafting
Design & Approval:
David H. Merrill Reg. Structural Engr.

SHEET NO. 4