

RT. Ruby Street

Double leaf Trunnion

SEC. Bascule Br.



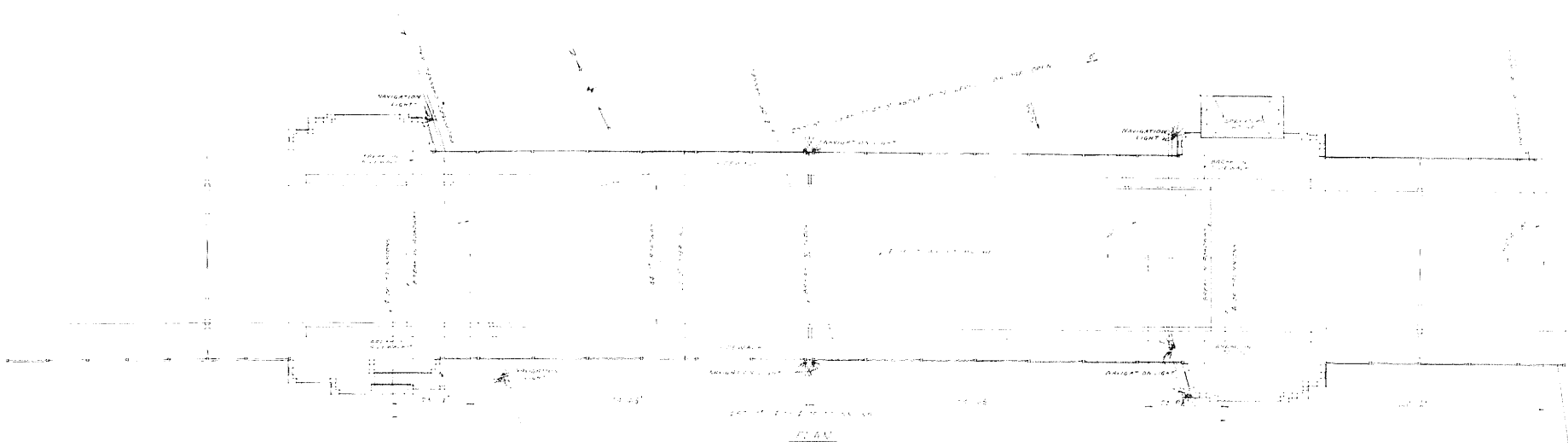
LIST OF DIMENSIONS

- | | | | |
|---------------------|--------------------|---------------------|---------------------|
| 1. Overall length | 2. Overall width | 3. Overall height | 4. Overall depth |
| 5. Room 101 length | 6. Room 101 width | 7. Room 101 height | 8. Room 101 depth |
| 9. Room 102 length | 10. Room 102 width | 11. Room 102 height | 12. Room 102 depth |
| 13. Room 103 length | 14. Room 103 width | 15. Room 103 height | 16. Room 103 depth |
| 17. Room 104 length | 18. Room 104 width | 19. Room 104 height | 20. Room 104 depth |
| 21. Room 105 length | 22. Room 105 width | 23. Room 105 height | 24. Room 105 depth |
| 25. Room 106 length | 26. Room 106 width | 27. Room 106 height | 28. Room 106 depth |
| 29. Room 107 length | 30. Room 107 width | 31. Room 107 height | 32. Room 107 depth |
| 33. Room 108 length | 34. Room 108 width | 35. Room 108 height | 36. Room 108 depth |
| 37. Room 109 length | 38. Room 109 width | 39. Room 109 height | 40. Room 109 depth |
| 41. Room 110 length | 42. Room 110 width | 43. Room 110 height | 44. Room 110 depth |
| 45. Room 111 length | 46. Room 111 width | 47. Room 111 height | 48. Room 111 depth |
| 49. Room 112 length | 50. Room 112 width | 51. Room 112 height | 52. Room 112 depth |
| 53. Room 113 length | 54. Room 113 width | 55. Room 113 height | 56. Room 113 depth |
| 57. Room 114 length | 58. Room 114 width | 59. Room 114 height | 60. Room 114 depth |
| 61. Room 115 length | 62. Room 115 width | 63. Room 115 height | 64. Room 115 depth |
| 65. Room 116 length | 66. Room 116 width | 67. Room 116 height | 68. Room 116 depth |
| 69. Room 117 length | 70. Room 117 width | 71. Room 117 height | 72. Room 117 depth |
| 73. Room 118 length | 74. Room 118 width | 75. Room 118 height | 76. Room 118 depth |
| 77. Room 119 length | 78. Room 119 width | 79. Room 119 height | 80. Room 119 depth |
| 81. Room 120 length | 82. Room 120 width | 83. Room 120 height | 84. Room 120 depth |
| 85. Room 121 length | 86. Room 121 width | 87. Room 121 height | 88. Room 121 depth |
| 89. Room 122 length | 90. Room 122 width | 91. Room 122 height | 92. Room 122 depth |
| 93. Room 123 length | 94. Room 123 width | 95. Room 123 height | 96. Room 123 depth |
| 97. Room 124 length | 98. Room 124 width | 99. Room 124 height | 100. Room 124 depth |

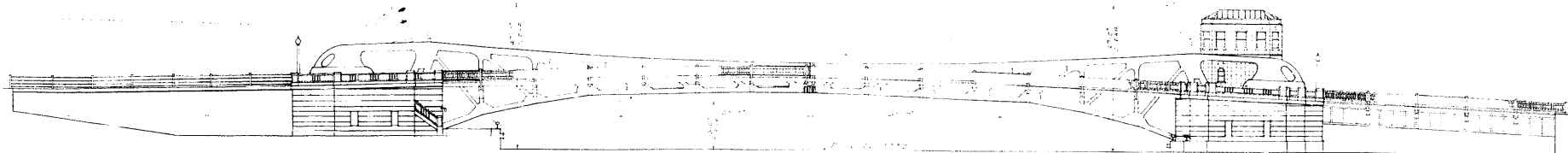
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF ARCHITECTURE
 ARCHITECT'S SIGNATURE: *[Handwritten Signature]*
 TITLE: *[Handwritten Title]*
 DATE: *[Handwritten Date]*

THE SCHERZER ROLLING LIFT RINGS CO.
 WORKS, CHICAGO, ILL.
 SHEET NO. 1343





PLAN



ELEVATION

LIST OF DRAWINGS

- | | | |
|---|---------------------------------------|---------------------------------------|
| 1 GENERAL PLAN | 14 CROSS GIRDER FG | 31 FLOOR DE TAILS AND FLOOR CASTINGS |
| 2 LOCATION PLAN | 15 MAINWERT CROSSER PLATING DETAILS | 32 FLOOR BEAMS 4 TO 16 |
| 3 EAST END | 16 RAILS AND STAKES | 33 FLOOR BEAMS 17 AND 18 |
| 4 EAST END | 17 CURB DETAILS AND BEAK AT CURBLINE | 34 SIDE SILLING CURB AND PARAPET WALL |
| 5 WEST END | 18 SIDEWALK STRUCTURE AND TIES QUANTO | 35 SIDEWALK RAILING |
| 6 EAST END | 19 MAINWERT GIRDERS AND COLUMNS | 36 CENTER LOBE AND SUPPORTS |
| 7 APPROACH BRIDGE DETAILS | 20 APPROACH BRIDGE | 37 CENTER LOBE CRANES |
| 8 APPROACH BRIDGE DETAILS | 21 APPROACH FLOOR BEAMS FG | 38 COUNTERWEIGHT EAST LOBE |
| 9 WEST APPROACH | 22 FLOOR DETAILS - FLOOR PARTS | 39 COUNTERWEIGHT WEST LOBE |
| 10 WEST APPROACH | 23 APPROACH BRIDGE | 40 OPERATING MECHANISM |
| 11 EAST APPROACH DETAILS OF WEST APPROACH | 24 MAINWERT TRUSSES - 0 TO 10 | 41 MAINWERT DETAILS |
| 12 WEST APPROACH DETAILS | 25 BASCULE TRUSSES 0 TO 2 | 42 FOUNDATIONS AND BEARINGS |
| 13 WEST APPROACH DETAILS | 26 BASCULE TRUSSES 3 TO 5 | 43 WINDING DRUMS |
| 14 STEEL SHEET PILING DETAILS | 27 BASCULE TRUSSES 6 TO 8 | 44 WINDING DRUMS |
| 15 STEEL SHEET PILING DETAILS | 28 BASCULE TRUSSES 9 TO 10 | 45 WINDING DRUMS |
| 16 CLEARANCE BRIDGE | 29 COUNTERWEIGHT SUPPORTS | 46 MECHANICAL INDICATOR ETC. |
| 17 FOUNDATION BRIDGE | 30 COUNTERWEIGHT SUPPORTS | 47 TOSTED POSTS AND CONNECTIONS |
| 18 FOUNDATION BRIDGE | 31 COUNTERWEIGHT SUPPORTS | 48 ELEVATIONS TO PILING CONTINUED |

GENERAL PLAN
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY

RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONROVIE BLOCK, CHICAGO, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

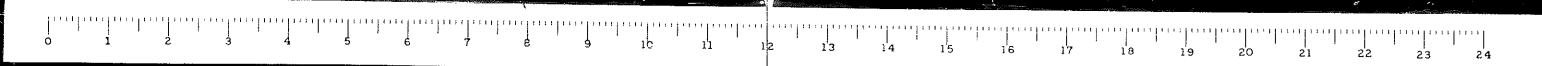
THE SCHERZER ROLLING LIFT BRIDGE CO.

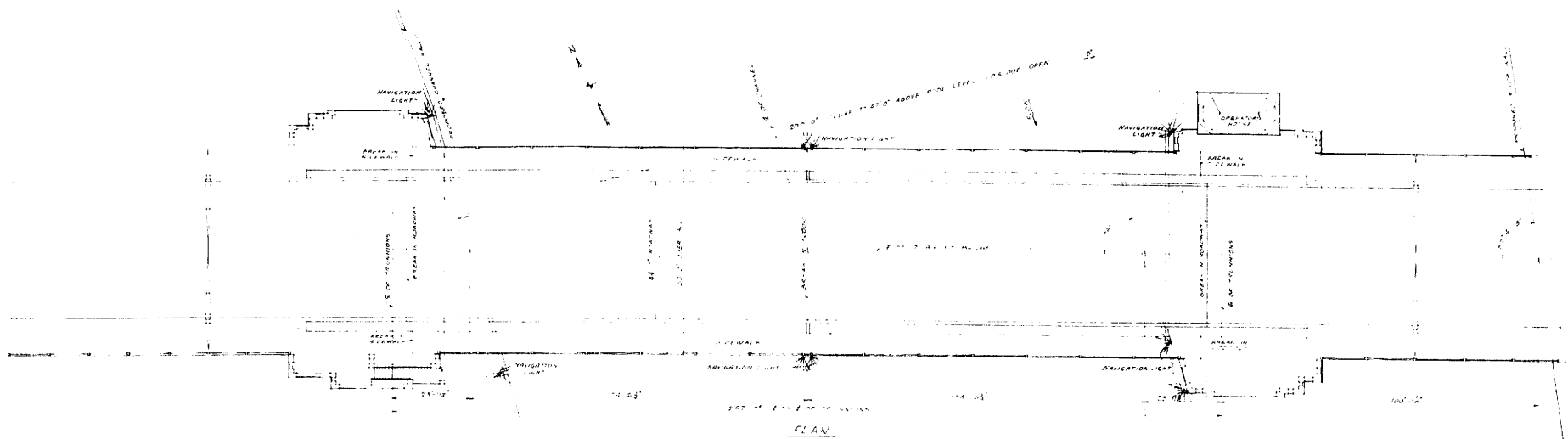
Approved Sept. 13, 1933
Wm. J. L. Ladd
Chief Engineer

Approved
Wm. J. L. Ladd
Chief Engineer

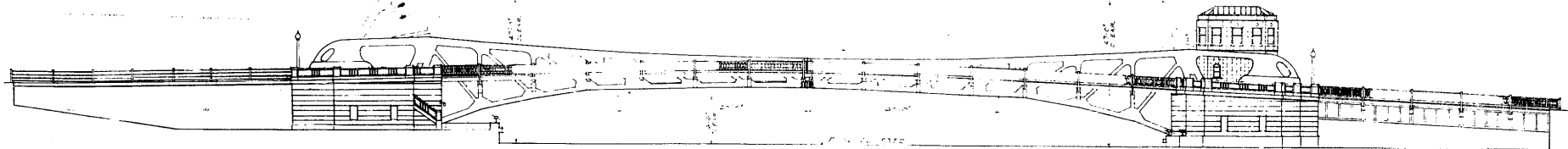
DRAWN BY F. D.
CHECKED BY P. J. B.
THIRD APRIL 1933
JULY 21, 1933

SCALE 1/4" = 1'-0"
DATE 1933 PA 1025
SHEET NO. 1343-1





PLAN



ELEVATION

LIST OF DRAWINGS

- | | | |
|---|--|--|
| 1 GENERAL PLAN | 14 CROSS GIRDS 15 | 27 FLOOR DETAILS AND FLOOR CASTINGS |
| 2 LOCATION PLAN | 16 ROOF TRUSSES, BRIDGES, TRUSSES | 28 FLOOR BEAMS 15 TO 18 |
| 3 EAST SIDE | 17 WALLS AND STAIRS | 29 FLOOR BEAMS 15 AND 18 |
| 4 WEST SIDE | 18 CURB DETAILS AND BENCH AT SIDEWALK | 30 TIE RODS, ANCHORS AND BRACES 15, 16, 17 |
| 5 EAST PIER | 19 SIDEWALK, SIDEWALKS AND TRUSS GIRDERS | 31 COUNTERWEIGHT BRIDGES |
| 6 WEST PIER | 20 APPROACH BRIDGES AND COLUMNS | 32 COUNTERWEIGHT EAST LEAF |
| 7 APPROACH BRIDGES AND EAST PIER DETAILS | 21 APPROACH FLOOR BEAMS 15 | 33 COUNTERWEIGHT WEST LEAF |
| 8 APPROACH WALLS DETAILS | 22 FLOOR DETAILS - WEST LEAF | 34 OPERATING MECHANISMS |
| 9 WEST ABUTMENT | 23 WALLS AND STAIRS | 35 TRUNNIONS AND BEARINGS |
| 10 EAST ABUTMENT (DETAILS OF WEST ABUTMENT) | 24 BASKULE TRUSSES - 17 TO 18 | 36 WINDING DRUMS |
| 11 WEST ABUTMENT DETAILS | 25 BASKULE TRUSSES - 17 TO 18 | 37 WINDING DRUMS |
| 12 WEST ABUTMENT | 26 BASKULE TRUSSES - 17 TO 18 | 38 CONTROL DECK AND ROBINNET (DETAILS) |
| 13 STRESS SHEET - WEST PART | 27 BASKULE TRUSSES - 17 TO 18 | 39 MECHANICAL INDICATOR ETC. |
| 14 CLEARANCE DIAGRAM | 28 COUNTERWEIGHT SUPPORTS | 40 PILES, PILES AND CONNECTIONS |
| 15 TRUNNION SUPPORTS | 29 COUNTERWEIGHT SUPPORTS | 41 OPERATIONS TO PUMPING STATION |

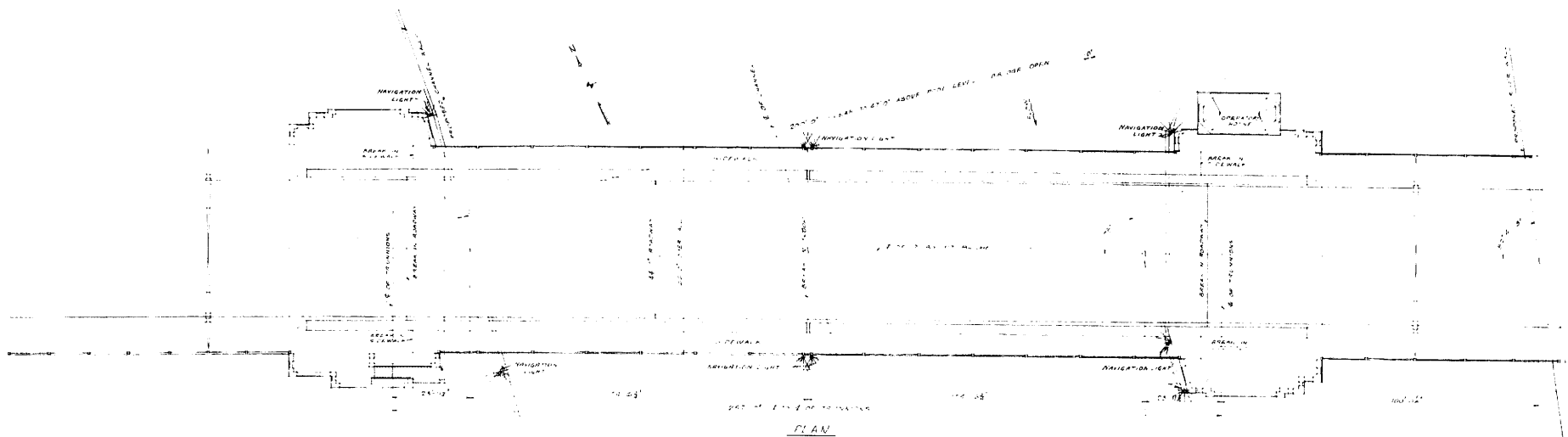
THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved Sept. 17, 1933
Wm. H. Ford
 Consulting Engineer

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approved _____
 Bridge Engineer
 Approved _____
 Chief Engineer

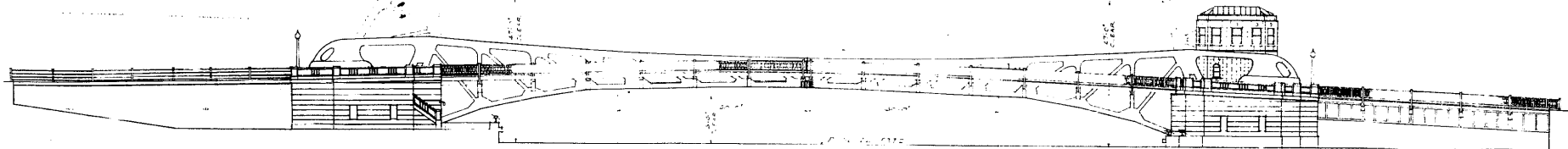
GENERAL PLAN
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET ILL.
 DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.,
 MONADNECK BLOCK, CHICAGO, ILL.

DRAWN BY P. D.
 CHECKED BY J. G.
 ISSUED APRIL 28, 1933
 SCALE: 1/4" = 1'-0"
 DATE: APR. 28, 1933
 SHEET NO. 1343-1





PLAN



ELEVATION

LIST OF DRAWINGS

- | | | |
|---|---|--|
| 1 GENERAL PLAN | 14 CROSS BRIDGE IS | 27 FLOOR DETAILS AND FLOOR LAYINGS |
| 2 LOCATION PLAN | 15 PROPOSED BRIDGE AND APPROACH DETAILS | 28 FLOOR BEAMS 15 TO 18 |
| 3 EAST PIER | 16 PAVES AND STAIRS | 29 FLOOR BEAMS 19 AND 20 |
| 4 WEST PIER | 17 CURB DETAILS AND BEAM AT SIDEWALK | 30 STRUCTURAL SECTION AND ANCHORS P.L. |
| 5 EAST PIER | 18 SIDEWALK SIDEWALK AND TIE RODS SHOWN | 31 OPERATIONAL DRAWING |
| 6 WEST PIER | 19 APPROACH RAILROADS AND RAILWAYS | 32 CENTER LOGS AND SUPPORTS |
| 7 OPERATIONAL DRAWING AND EAST PIER DETAILS | 20 APPROACH FLOOR BEAMS 19 | 33 CENTER LOGS EAST LEAF |
| 8 OPERATIONAL DRAWING DETAILS | 21 FLOOR DETAILS - FIXED PARTS | 34 COUNTERWEIGHT - EAST LEAF |
| 9 WEST APPROACH | 22 OPERATIONAL DRAWING | 35 COUNTERWEIGHT - WEST LEAF |
| 10 WEST APPROACH | 23 OPERATIONAL DRAWING | 36 OPERATING MACHINERY |
| 11 EAST APPROACH | 24 OPERATIONAL DRAWING | 37 OPERATIONAL DRAWING |
| 12 WEST APPROACH | 25 BASCULE TRUSSES - 1 TO 4 | 38 OPERATIONAL DRAWING |
| 13 STRESS SHEET - BASCULE LEAF | 26 BASCULE TRUSSES - 5 TO 8 | 39 OPERATIONAL DRAWING |
| 14 STRESS SHEET - FIXED PARTS | 27 BASCULE TRUSSES - 9 TO 12 | 40 OPERATIONAL DRAWING |
| 15 CLEARANCE DIAGRAM | 28 BASCULE TRUSSES - 13 TO 16 | 41 OPERATIONAL DRAWING |
| 16 TRINNION SUPPORTS | 29 BASCULE TRUSSES - 17 TO 20 | 42 OPERATIONAL DRAWING |
| 17 TRINNION SUPPORTS | 30 COUNTERWEIGHT SUPPORTS | 43 OPERATIONAL DRAWING |
| 18 TRINNION SUPPORTS | 31 COUNTERWEIGHT SUPPORTS | 44 OPERATIONAL DRAWING |
| | 32 COUNTERWEIGHT SUPPORTS | 45 OPERATIONAL DRAWING |
| | 33 COUNTERWEIGHT SUPPORTS | 46 OPERATIONAL DRAWING |
| | 34 COUNTERWEIGHT SUPPORTS | 47 OPERATIONAL DRAWING |
| | 35 COUNTERWEIGHT SUPPORTS | 48 OPERATIONAL DRAWING |
| | 36 COUNTERWEIGHT SUPPORTS | 49 OPERATIONAL DRAWING |
| | 37 COUNTERWEIGHT SUPPORTS | 50 OPERATIONAL DRAWING |
| | 38 COUNTERWEIGHT SUPPORTS | 51 OPERATIONAL DRAWING |
| | 39 COUNTERWEIGHT SUPPORTS | 52 OPERATIONAL DRAWING |
| | 40 COUNTERWEIGHT SUPPORTS | 53 OPERATIONAL DRAWING |
| | 41 COUNTERWEIGHT SUPPORTS | 54 OPERATIONAL DRAWING |
| | 42 COUNTERWEIGHT SUPPORTS | 55 OPERATIONAL DRAWING |
| | 43 COUNTERWEIGHT SUPPORTS | 56 OPERATIONAL DRAWING |
| | 44 COUNTERWEIGHT SUPPORTS | 57 OPERATIONAL DRAWING |
| | 45 COUNTERWEIGHT SUPPORTS | 58 OPERATIONAL DRAWING |
| | 46 COUNTERWEIGHT SUPPORTS | 59 OPERATIONAL DRAWING |
| | 47 COUNTERWEIGHT SUPPORTS | 60 OPERATIONAL DRAWING |
| | 48 COUNTERWEIGHT SUPPORTS | 61 OPERATIONAL DRAWING |
| | 49 COUNTERWEIGHT SUPPORTS | 62 OPERATIONAL DRAWING |
| | 50 COUNTERWEIGHT SUPPORTS | 63 OPERATIONAL DRAWING |
| | 51 COUNTERWEIGHT SUPPORTS | 64 OPERATIONAL DRAWING |
| | 52 COUNTERWEIGHT SUPPORTS | 65 OPERATIONAL DRAWING |
| | 53 COUNTERWEIGHT SUPPORTS | 66 OPERATIONAL DRAWING |
| | 54 COUNTERWEIGHT SUPPORTS | 67 OPERATIONAL DRAWING |
| | 55 COUNTERWEIGHT SUPPORTS | 68 OPERATIONAL DRAWING |
| | 56 COUNTERWEIGHT SUPPORTS | 69 OPERATIONAL DRAWING |
| | 57 COUNTERWEIGHT SUPPORTS | 70 OPERATIONAL DRAWING |
| | 58 COUNTERWEIGHT SUPPORTS | 71 OPERATIONAL DRAWING |
| | 59 COUNTERWEIGHT SUPPORTS | 72 OPERATIONAL DRAWING |
| | 60 COUNTERWEIGHT SUPPORTS | 73 OPERATIONAL DRAWING |
| | 61 COUNTERWEIGHT SUPPORTS | 74 OPERATIONAL DRAWING |
| | 62 COUNTERWEIGHT SUPPORTS | 75 OPERATIONAL DRAWING |
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| | 68 COUNTERWEIGHT SUPPORTS | 81 OPERATIONAL DRAWING |
| | 69 COUNTERWEIGHT SUPPORTS | 82 OPERATIONAL DRAWING |
| | 70 COUNTERWEIGHT SUPPORTS | 83 OPERATIONAL DRAWING |
| | 71 COUNTERWEIGHT SUPPORTS | 84 OPERATIONAL DRAWING |
| | 72 COUNTERWEIGHT SUPPORTS | 85 OPERATIONAL DRAWING |
| | 73 COUNTERWEIGHT SUPPORTS | 86 OPERATIONAL DRAWING |
| | 74 COUNTERWEIGHT SUPPORTS | 87 OPERATIONAL DRAWING |
| | 75 COUNTERWEIGHT SUPPORTS | 88 OPERATIONAL DRAWING |
| | 76 COUNTERWEIGHT SUPPORTS | 89 OPERATIONAL DRAWING |
| | 77 COUNTERWEIGHT SUPPORTS | 90 OPERATIONAL DRAWING |
| | 78 COUNTERWEIGHT SUPPORTS | 91 OPERATIONAL DRAWING |
| | 79 COUNTERWEIGHT SUPPORTS | 92 OPERATIONAL DRAWING |
| | 80 COUNTERWEIGHT SUPPORTS | 93 OPERATIONAL DRAWING |
| | 81 COUNTERWEIGHT SUPPORTS | 94 OPERATIONAL DRAWING |
| | 82 COUNTERWEIGHT SUPPORTS | 95 OPERATIONAL DRAWING |
| | 83 COUNTERWEIGHT SUPPORTS | 96 OPERATIONAL DRAWING |
| | 84 COUNTERWEIGHT SUPPORTS | 97 OPERATIONAL DRAWING |
| | 85 COUNTERWEIGHT SUPPORTS | 98 OPERATIONAL DRAWING |
| | 86 COUNTERWEIGHT SUPPORTS | 99 OPERATIONAL DRAWING |
| | 87 COUNTERWEIGHT SUPPORTS | 100 OPERATIONAL DRAWING |

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

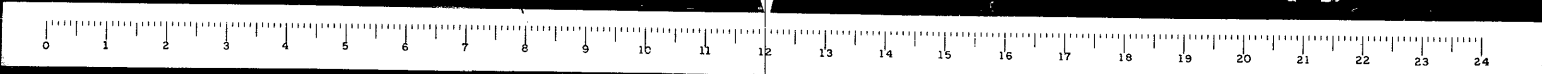
THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved Sept. 17, 1933
Wm. H. Ford
 Consulting Engineer
 Approved Sept. 15, 1933
Wm. H. Ford
 Chief Engineer

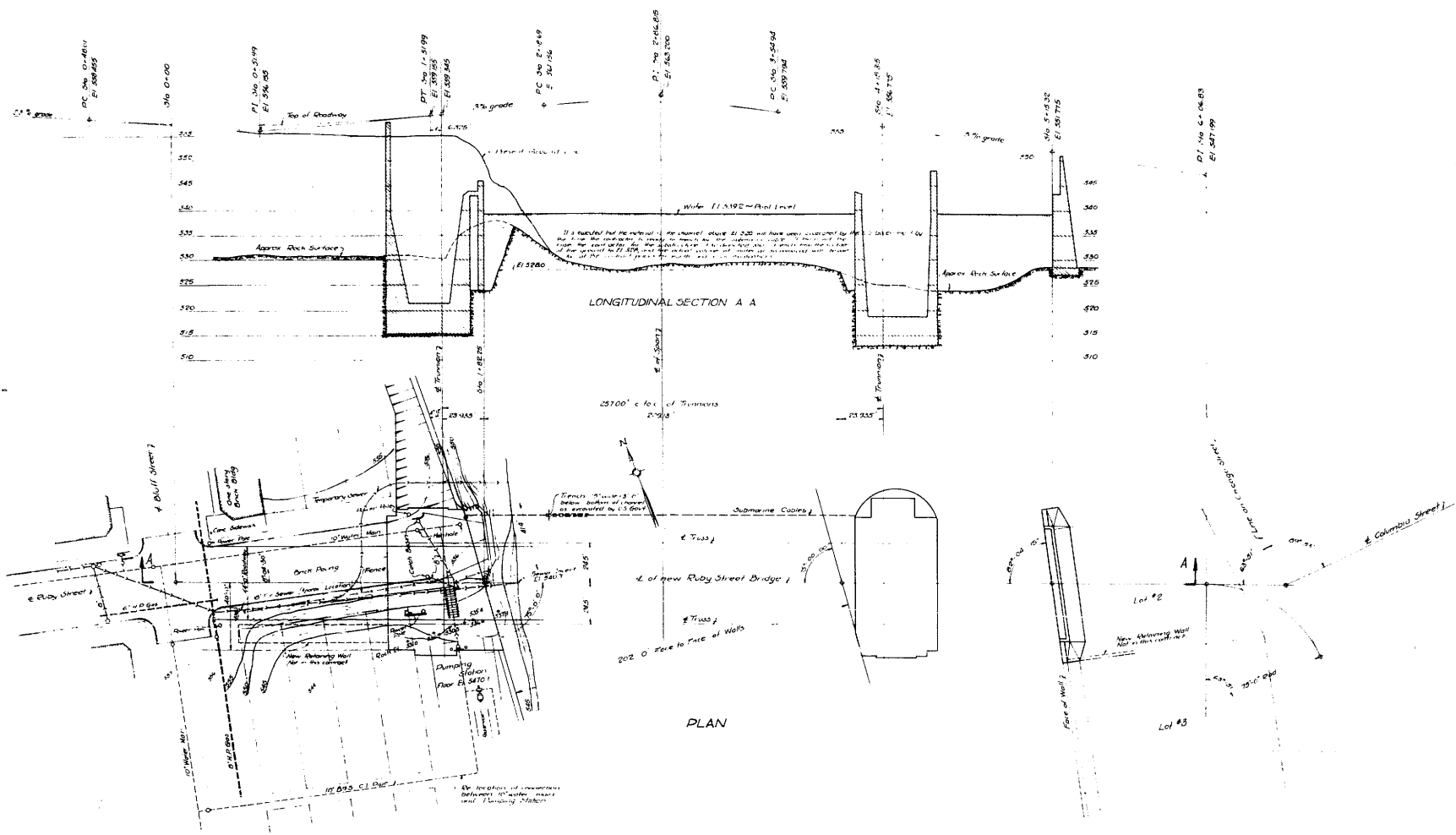
GENERAL PLAN
 DOUBLE LEAF TRINNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONROE BLOCK, CHICAGO, ILL.

DRAWN BY P.L.D.
 CHECKED BY P.D.
 DESIGNED APRIL 28, 1933
 JULY 21, 1933
 AUG 1, 1933

SCALE: 1/4" = 1'-0"
 DATE: APR. 28, 1933
 SHEET NO. 1343-1





LOCATION PLAN
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *[Signature]* 1933
 Approved: *[Signature]* 1933
 Approved: *[Signature]* 1933
 Approved: *[Signature]* 1933

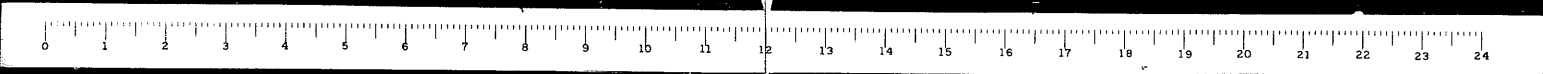
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approved: *[Signature]*
 Approved: *[Signature]*
 Approved: *[Signature]*

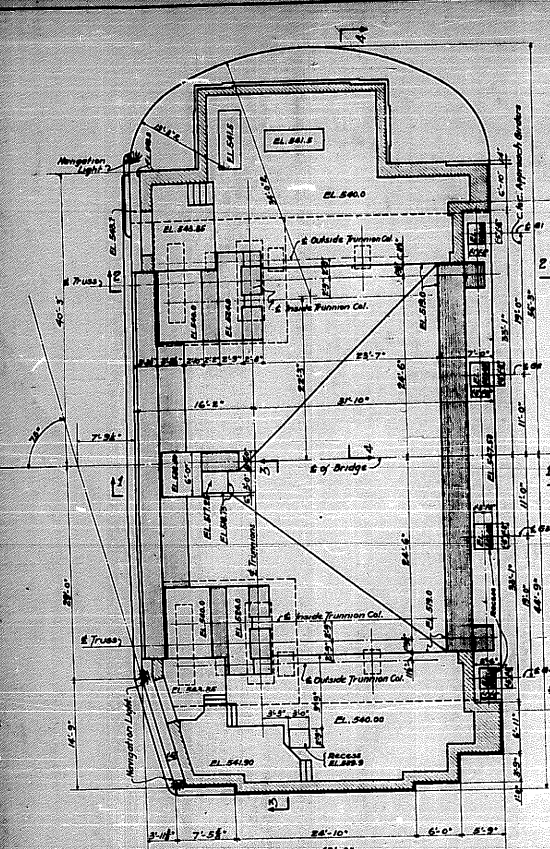
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY: I.E.
 CHECKED BY: A.D.
 REVISION: 1228
 REVISED: April 1933

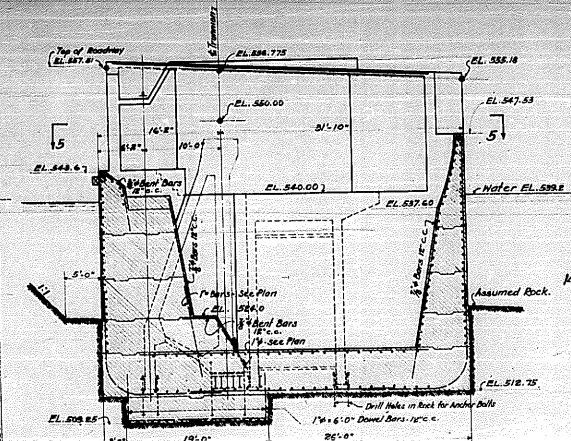
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 DATE: FEB 28 1933
 SHEET NO. 1343-2

Accession No. 3301

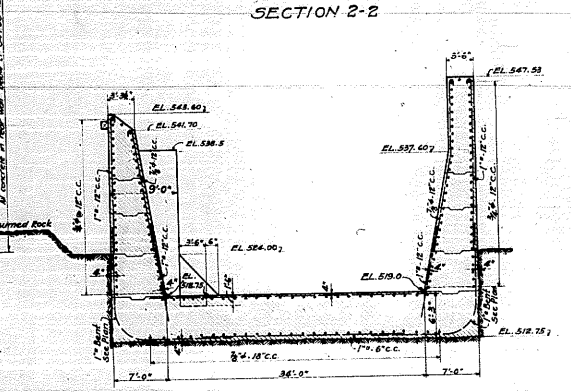




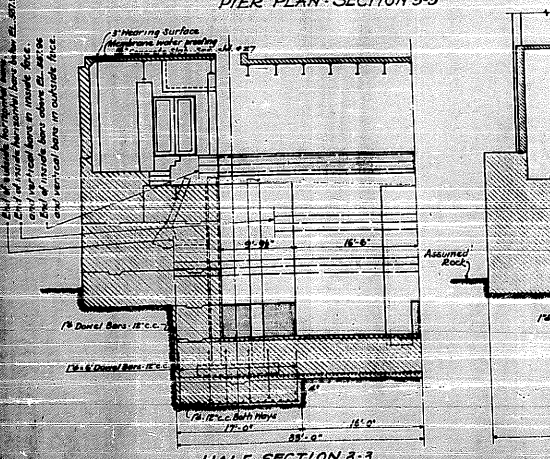
PIER PLAN - SECTION 5-5



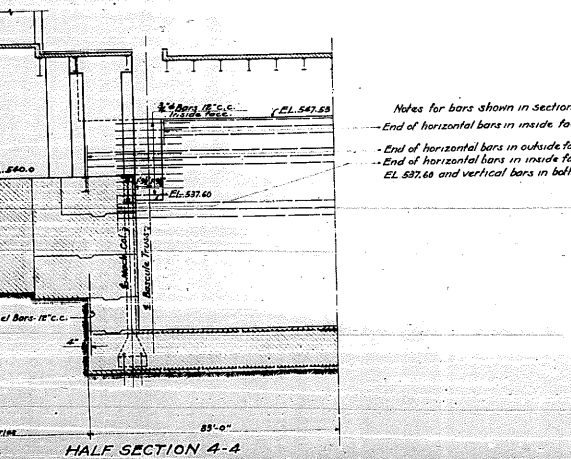
SECTION 2-2



SECTION 1-1

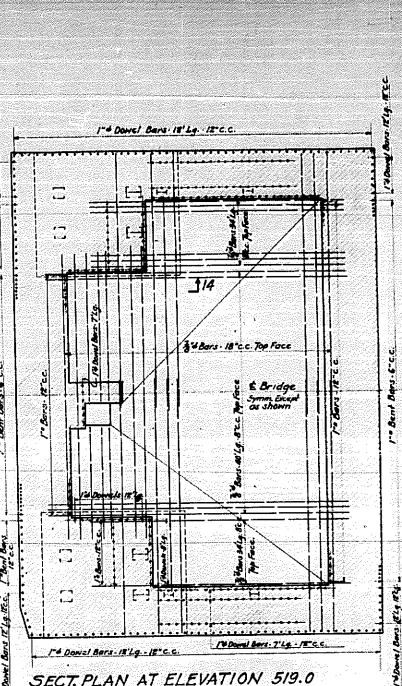


HALF SECTION 3-3

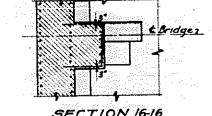


HALF SECTION 4-4

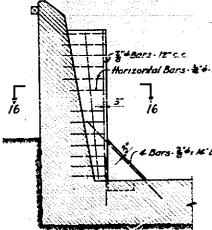
Notes for bars shown in section 1-1:
 - End of horizontal bars in inside face above EL. 537.60
 - End of horizontal bars in outside face
 - End of horizontal bars in inside face below EL. 537.60 and vertical bars in both faces.



SECT. PLAN AT ELEVATION 519.0



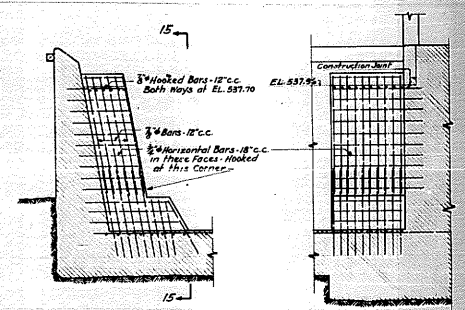
SECTION 16-16



PART SECTION 1-1 SHOWING PILASTER REINFORCING BARS.

Note:
 Except as noted on sheet 14, with reference to the concrete around machinery beams, and on this sheet with reference to the concrete in the rear wall of the pier, all concrete below EL. 543.85 is sub-structure concrete.
 All concrete above the elevations given is superstructure concrete.

Classes of concrete:
 Fiber and front and rear walls of counter-weight pit, live load supports, ramp support, machinery room, enclosure walls, floors, and walks above machinery room and concrete around machinery beams shall be class 'A' concrete.
 All other concrete in the pier shall be class 'X' concrete.



SECTION 14-14

SECTION 15-15

General Notes:
 Bars where spaced must top 40 diameters.
 The contractor shall furnish complete setting plans and details of all substructure and superstructure reinforcing bars. The plans shall be carefully drawn on standard size sheets to a scale of not less than 3/8\"/>

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *Apr. 13, 1933*
Wm. J. Scherzer
 Approved: *Sheet 13-143*
Wm. J. Scherzer
 Chief Engineer

Approval recommended: _____
 Bridge Engineer

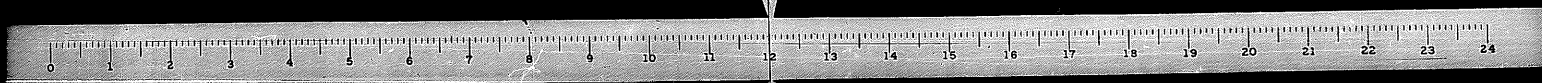
Approved: _____
 Chief Engineer

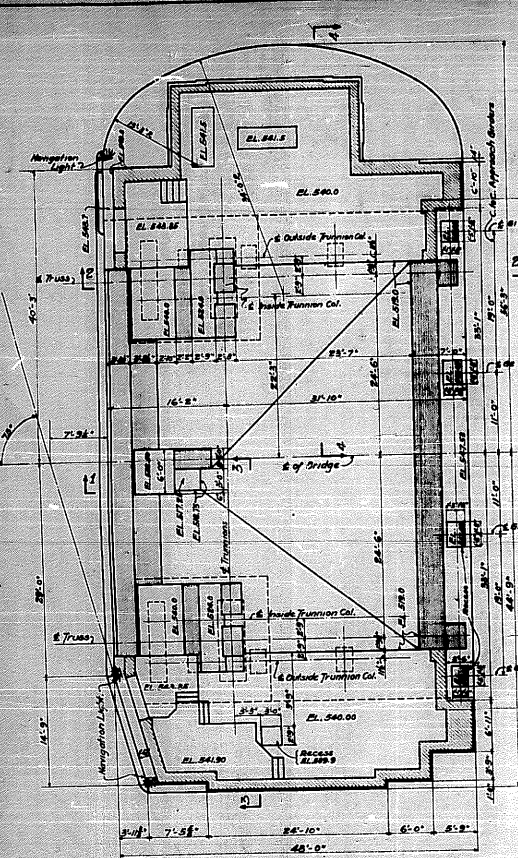
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALBA
 TRACED BY J.H.
 CHECKED BY J.F.
 REVISED ALB. 6-1933

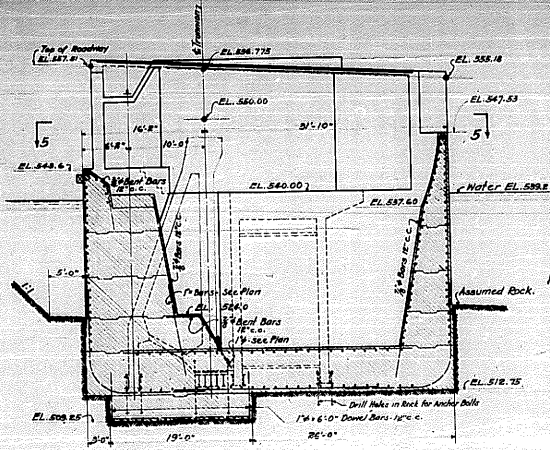
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 DATE: MAR. 1, 1933

SHEET NO. 1343-B
 Accession No. 3305

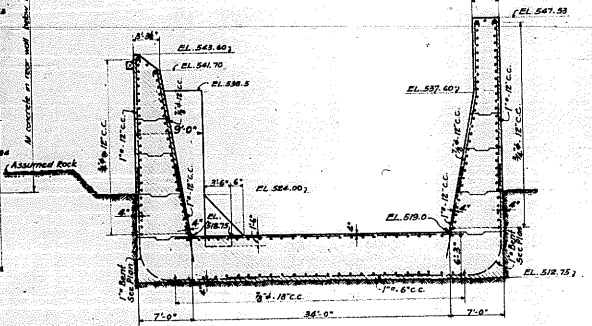




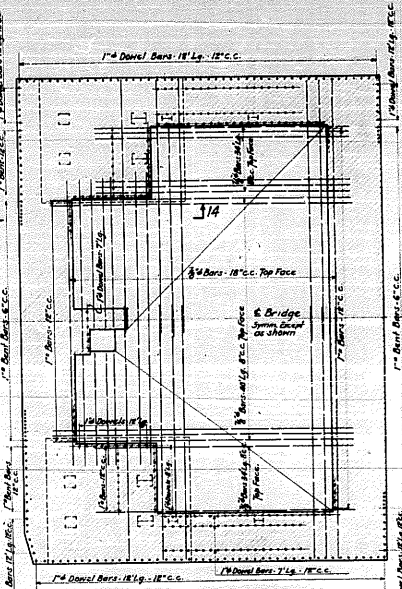
PIER PLAN - SECTION 5-5



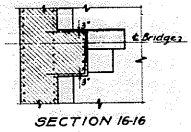
SECTION 2-2



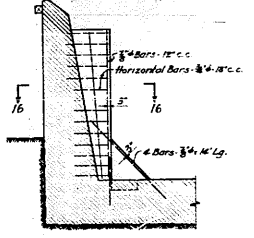
SECTION 1-1



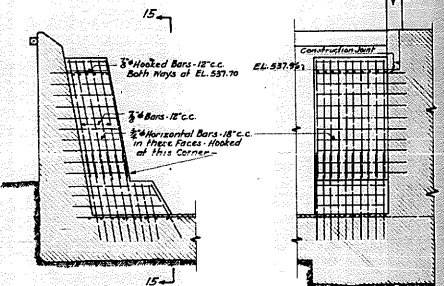
SECT. PLAN AT ELEVATION 519.0



SECTION 16-16

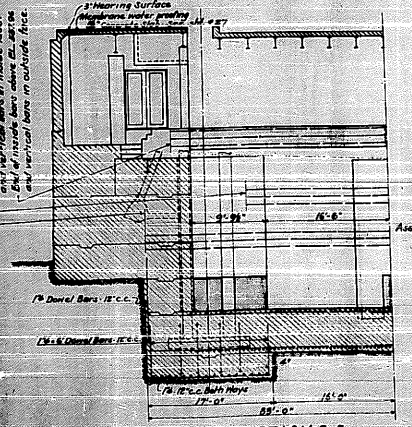


PART SECTION 1-1 SHOWING PILASTER REINFORCING BARS.

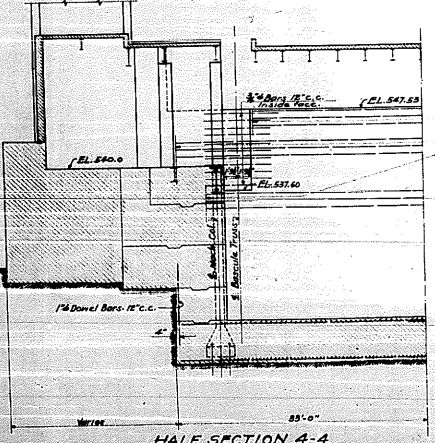


SECTION 14-14

SECTION 15-15



HALF SECTION 3-3



HALF SECTION 4-4

Notes for bars shown in section 1-1:
 - End of horizontal bars in inside face above EL. 537.60
 - End of horizontal bars in outside face.
 - End of horizontal bars in inside face below EL. 537.60 and vertical bars in both faces.

Note:
 Except as noted on sheet 14, with reference to the concrete around machinery beams, and on this day, with reference to the concrete in the rear wall of the pier, all concrete below EL. 543.83 is sub-structure concrete.
 All concrete above the elevations given is superstructure concrete.

Classes of concrete:
 Floor and front and rear walls of counterweight pit, live load supports, pump support, machinery room, enclosure walls, floors and walks, doors, machinery room and concrete around machinery beams shall be class 'A' concrete.
 All other concrete in the pier shall be class 'A' concrete.

General Notes:
 Bars where spliced must top 40 diameters.
 The contractor shall furnish complete setting plans and details of all substructure and superstructure reinforcing bars. The plans shall be carefully drawn on standard size sheets to a scale of not less than 1/4" to the foot and shall be in ink on tracing cloth.

EAST PIER
DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved Sept. 13, 1933
W. J. Gardner
 Consulting Engineer
 Approved Sept. 13, 1933
W. J. Gardner
 Chief Engineer

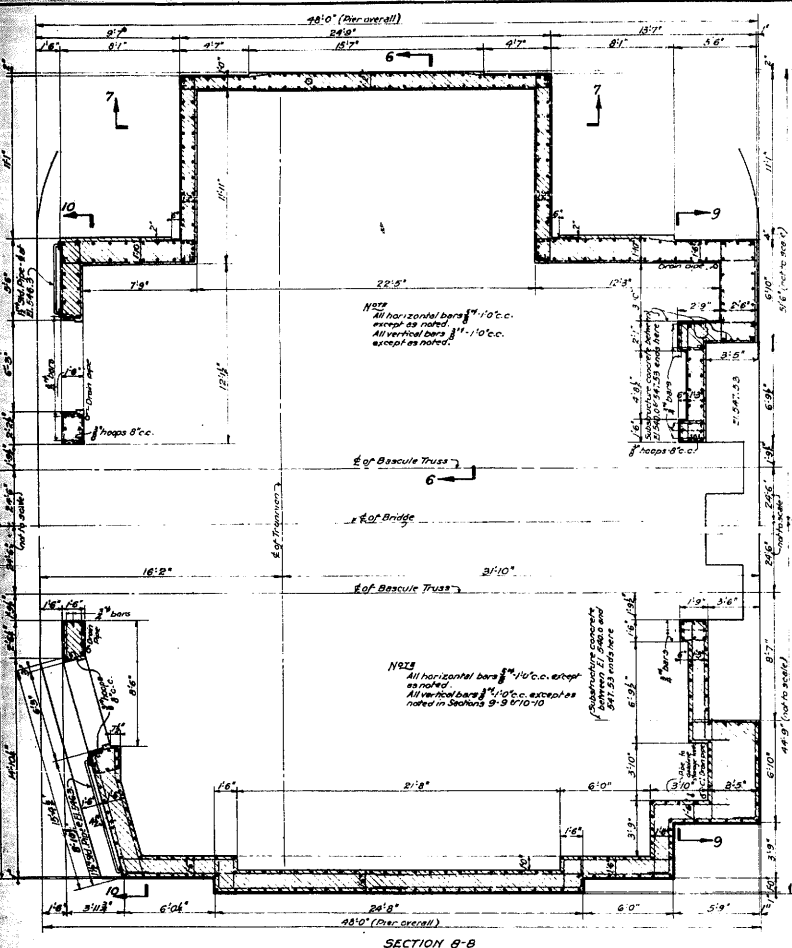
Approval recommended: _____
 Bridge Engineer

Approved: _____
 Chief Engineer

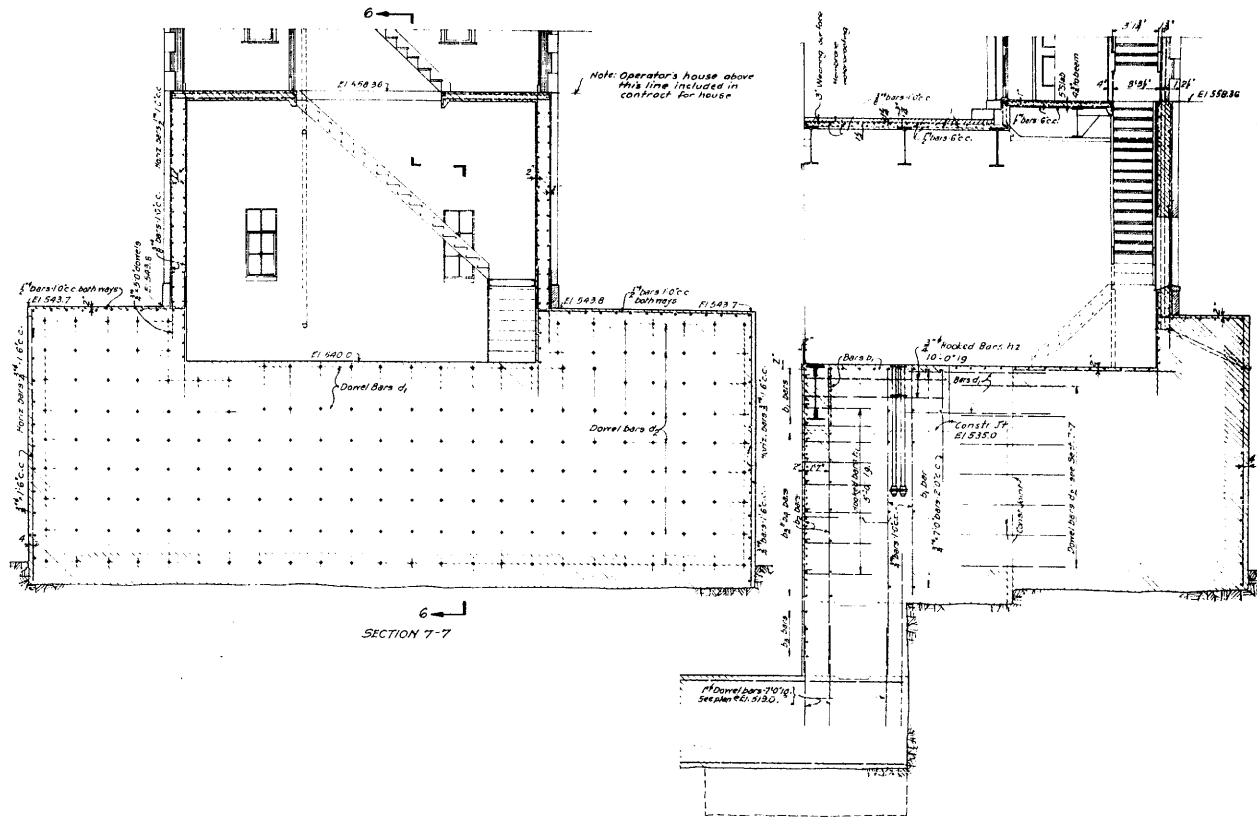
DRAWN BY: ALBA
 TRACED BY: J. H.
 CHECKED BY: J. J.
 REVISED: AUG. 6, 1935.

SCALE: 1" = 1'-0"
 DATE: MAR. 1, 1933
SHEET NO. 1343-B
 Acquisition No. 3302



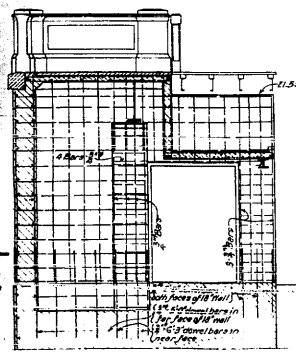


SECTION 8-8

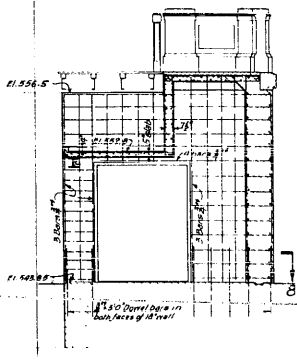


SECTION 7-7

SECTION 6-6



SECTION 10-10



Note - For Section 9-9 see Sheet #6 for general notes see sh #3

EAST PIER
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST, JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

Approved: *[Signature]* 12.13.1933
Managing Engineer
Approved: *[Signature]* 12.13.1933
Chief Engineer

Approval recommended:
Bridge Engineer
Approved: _____
Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY: L.L.S.
TRACED BY: P.S.
CHECKED BY: P.S.
REVISED: Aug. 12, 1933

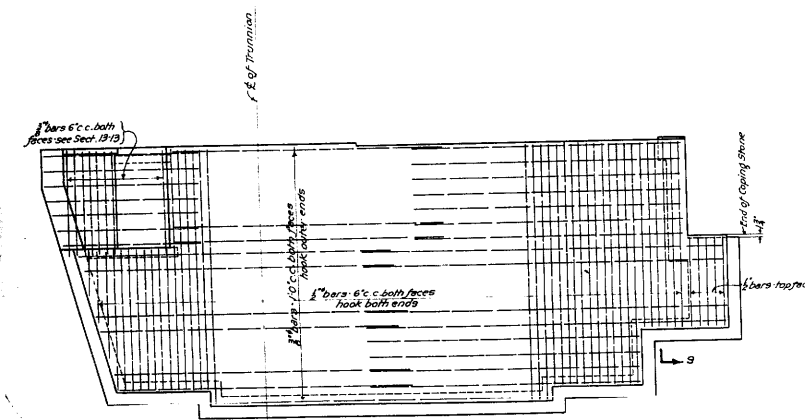
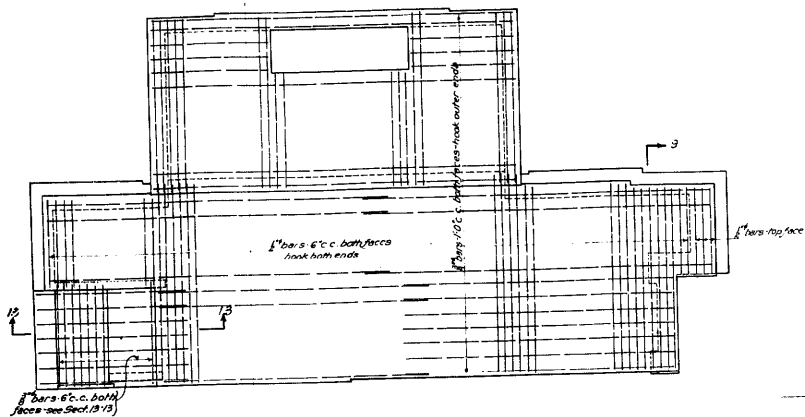
SCALE 1/4"=1'-0"

DATE: APRIL 27, 1933

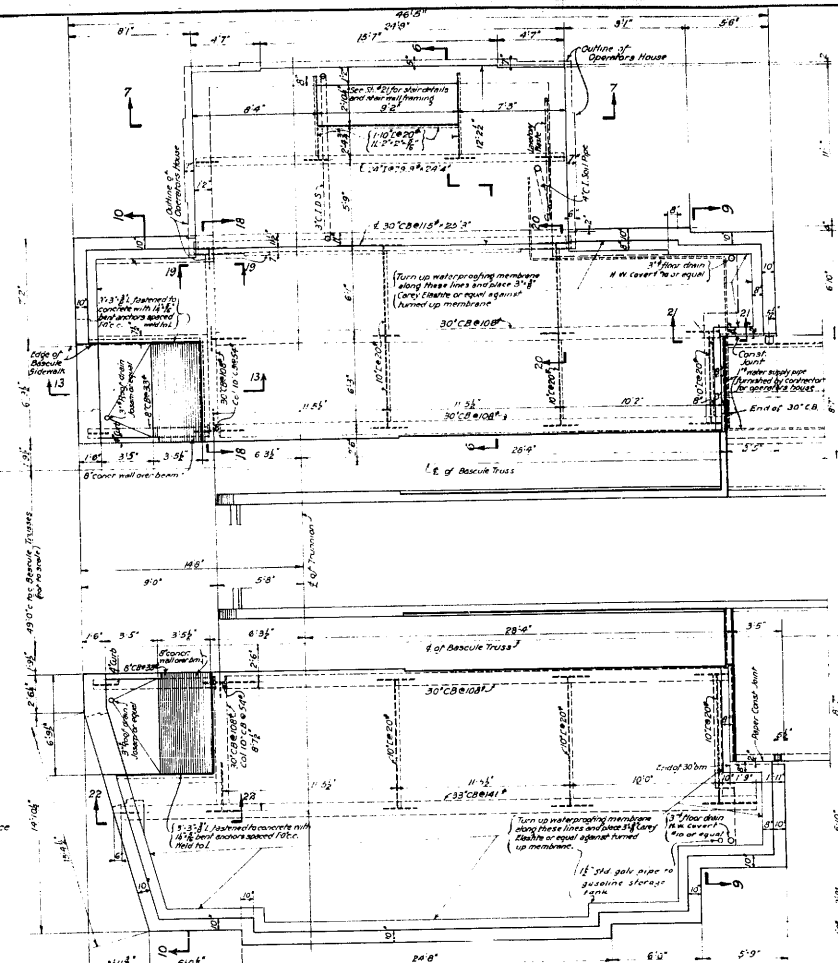
SHEET NO. 1345-5

Accession No. 3304



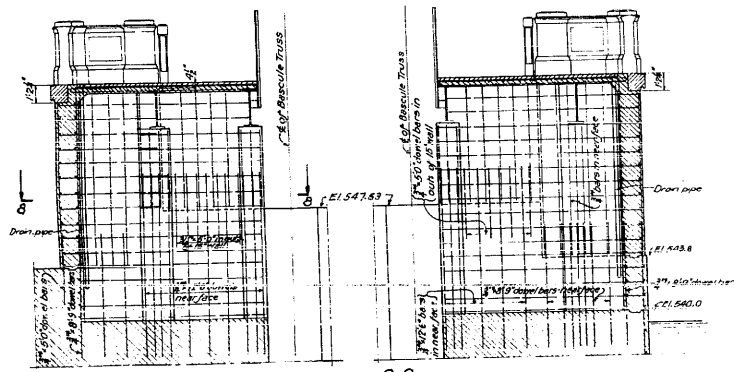


BAR PLAN AT SIDEWALK LEVEL



STEEL FRAMING & CONCRETE DETAILS AT SIDEWALK LEVEL

NOTE -
 For Sections 6-6, 7-7, 8-8 & 10-10 see Sh #3
 For Sections 18-18, 19-19, 20-20, 21-21 & 22-22 see Sheet #23
 For Section 13-13 see Sh #4
 For General Notes see Sh #3



SECTION 9-9

THE SCHERZER ROLLING LIFT BRIDGE CO.

Approved: [Signature]

Approved: [Signature]

Approved: [Signature]

Approved: [Signature]

Approved: [Signature]

Approved: [Signature]

Approved: [Signature]

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

Approval recommended:

Bridge Engineer

Approved:

Chief Engineer

EAST PIER
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 JOLIET, ILL.

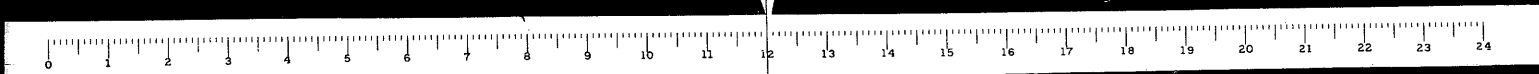
DRAWN BY A. R. S.
 CHECKED BY P. L. B.
 REVISIONS
 Aug 21, 1933

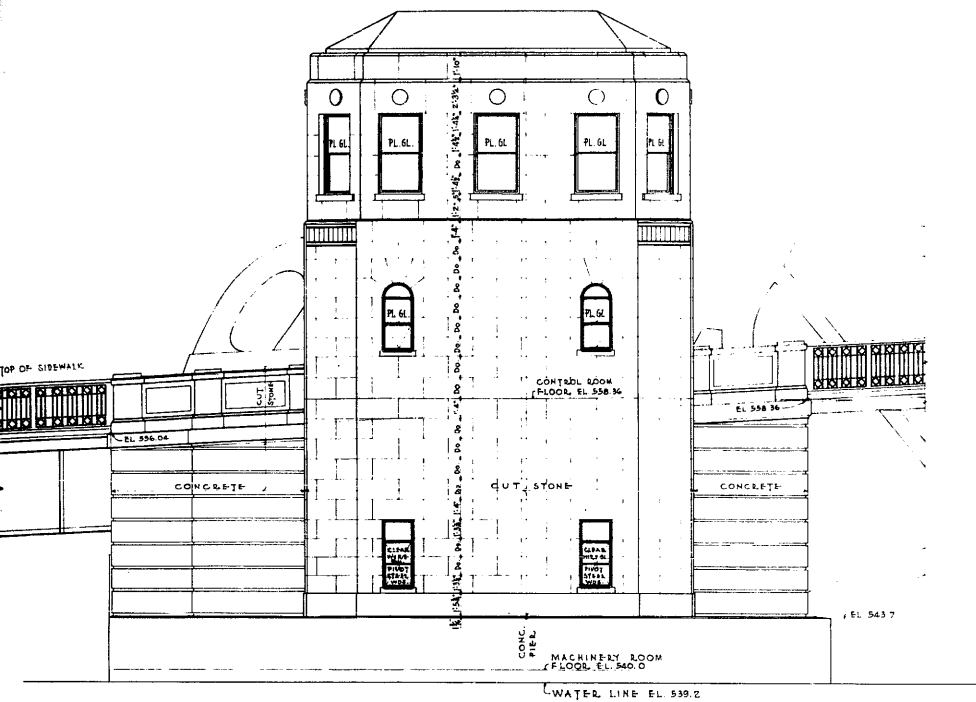
SCALE 1/4" = 1'-0"

DATE: 1933

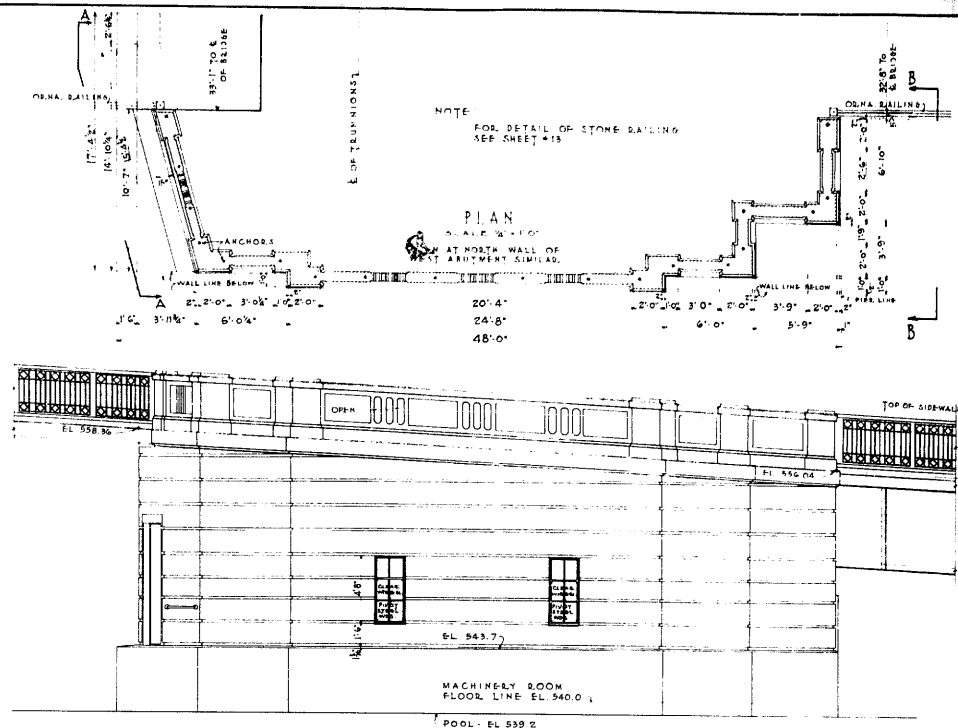
SHEET NO. 1343-6

Accession N° 3305

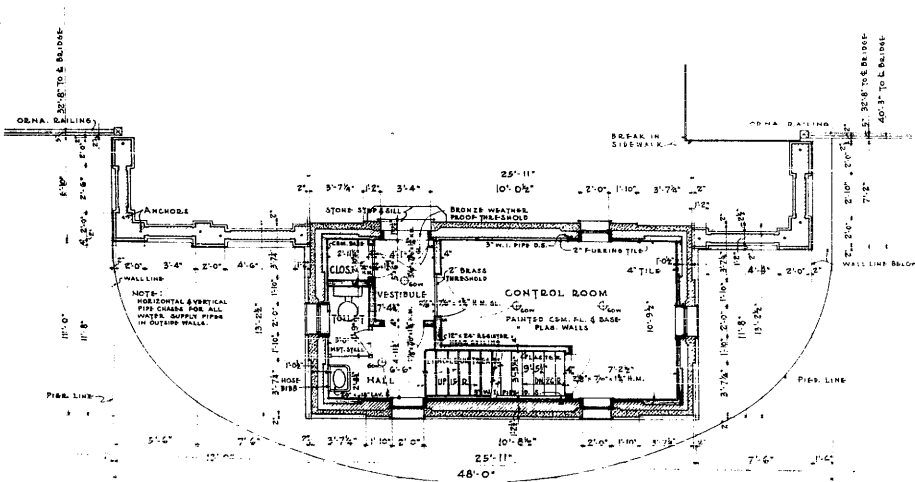




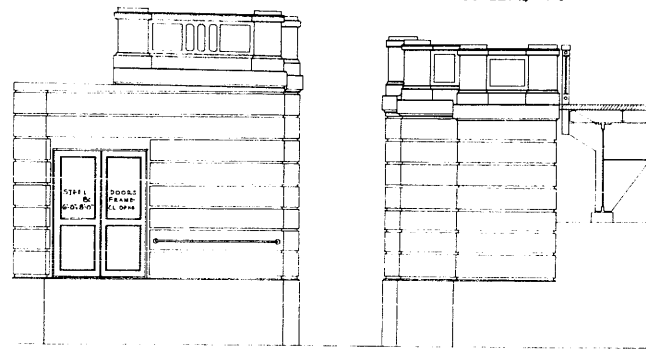
NORTH ELEV. EAST PIER
SCALE: 1/4" = 1'-0"



SOUTH ELEV. EAST PIER
SCALE: 1/4" = 1'-0"



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

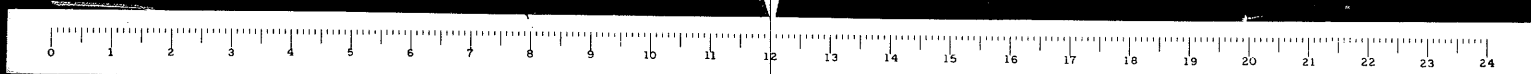


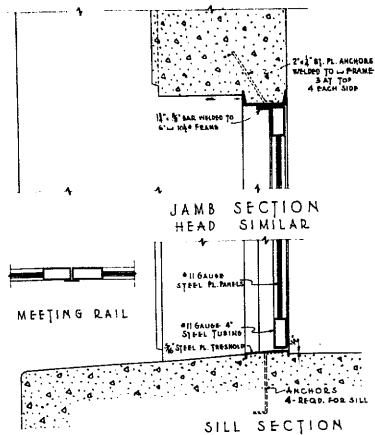
ELEV. A-A
SCALE 1/4" = 1'-0"

ELEV. B-B
SCALE 1/4" = 1'-0"

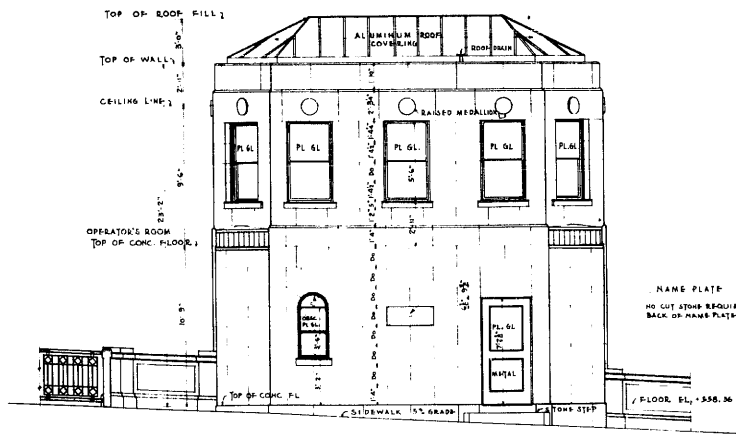
OPERATOR'S HOUSE & EAST PIER DETAILS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.
DRAWN BY F.B.
TRACED BY J.H.
CHECKED BY G.H.
REVISED AUG. 28, 1931
SCALE 1/4" = 1'-0"
DATE: MARCH 1, 1933
SHEET NO. 1343-7
Accession No. 3906

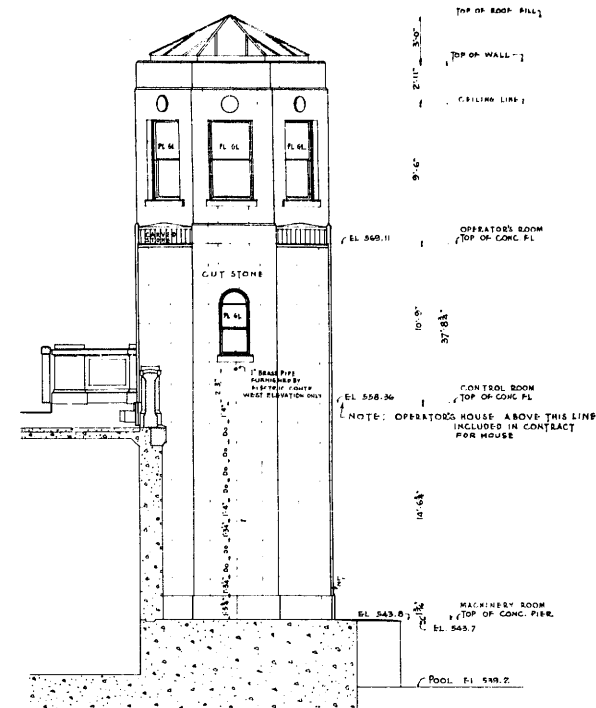




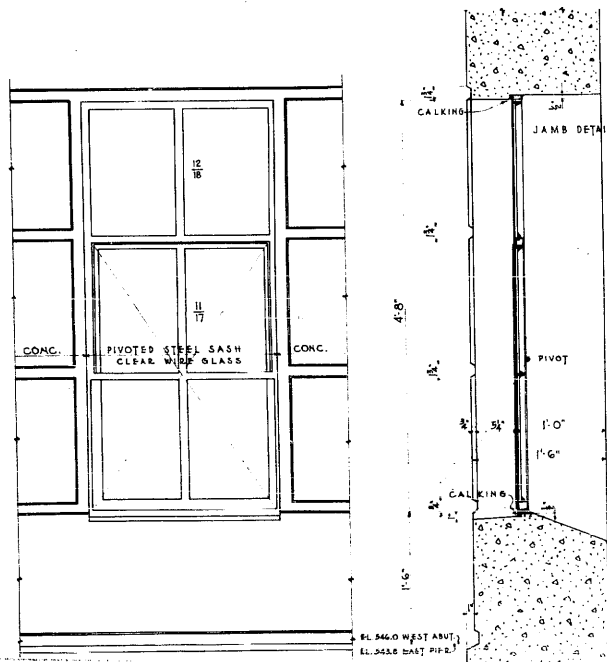
DETAILS OF STEEL DOORS AND FRAMES - MACHINERY ROOMS
SCALE 1/2" = 1'-0"



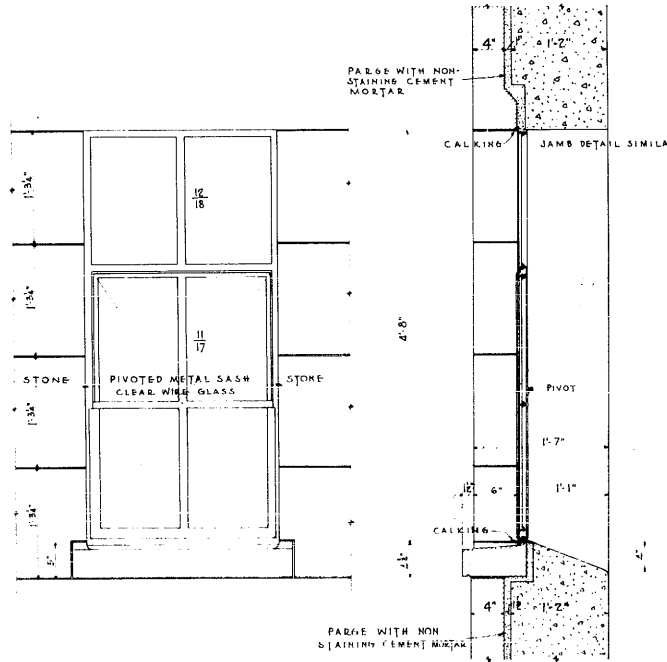
SCALE 3/8" = 1'-0"



SCALE 3/8" = 1'-0"



DETAILS OF TYP. WDS. MACHINERY ROOMS
SOUTH END OF EAST PIER & SOUTH END OF WEST ABUTMENT
SCALE: 1/2" = 1'-0"



WINDOW DETAILS - MACHINERY ROOM
NORTH END OF EAST PIER
SCALE 1/2" = 1'-0"

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]*
[Signature] Consulting Engineer
Approved: *[Signature]* Chief Engineer

Approval recommended
Bridge Engineer
Approved: Chief Engineer

OPERATOR'S HOUSE & DETAILS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONROCK BLOCK CHICAGO, ILL.

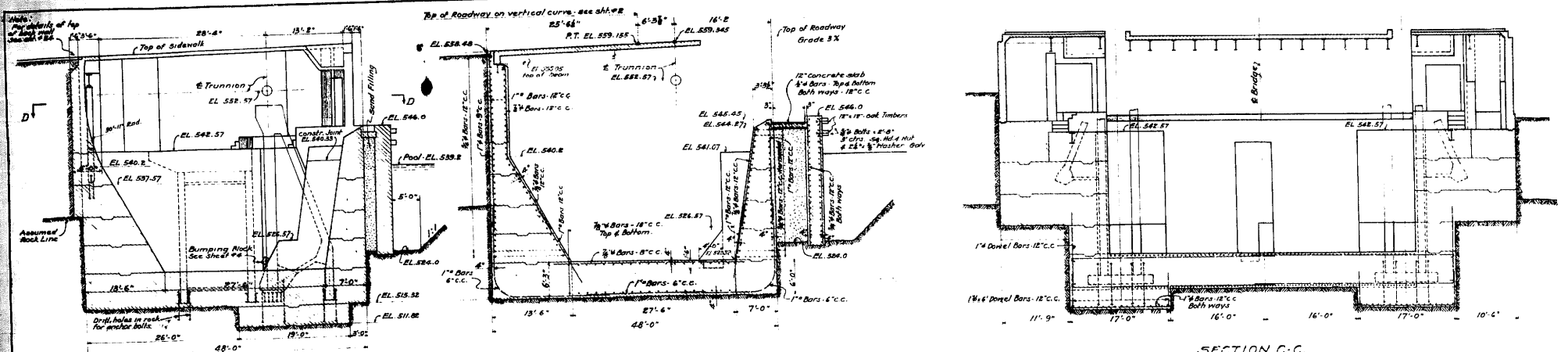
DRAWN BY: B. B.
CHECKED BY: J. B.
REVISED: AUG. 18, 1933

SCALE: 3/8" = 1'-0"
DATE: MARCH 8, 1933

SHEET NO. 1343-B

Accession No. 3507

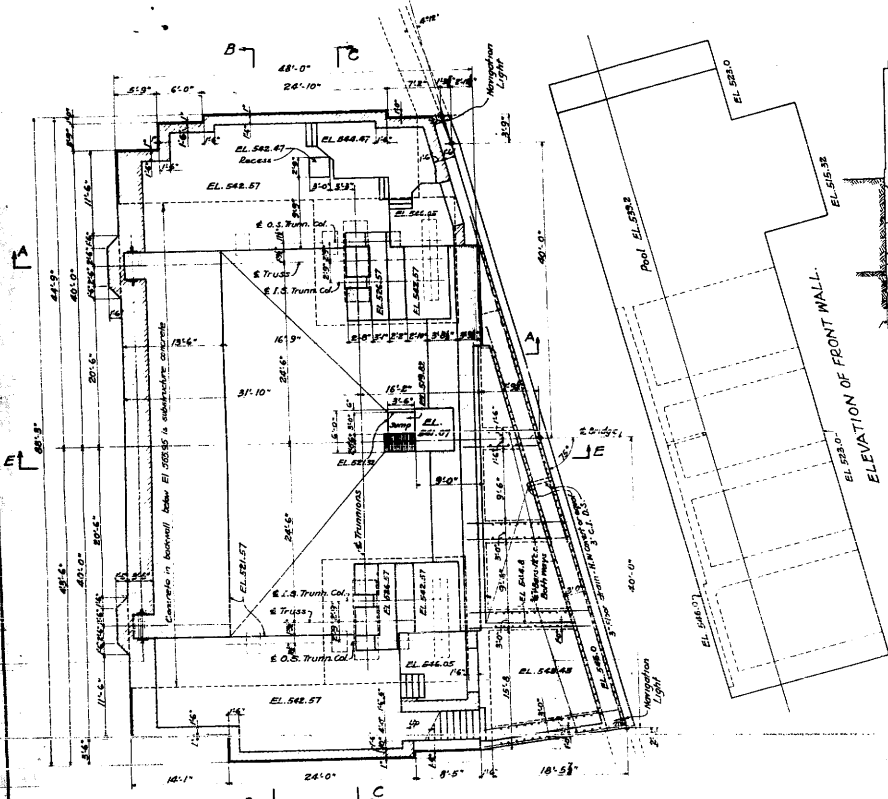




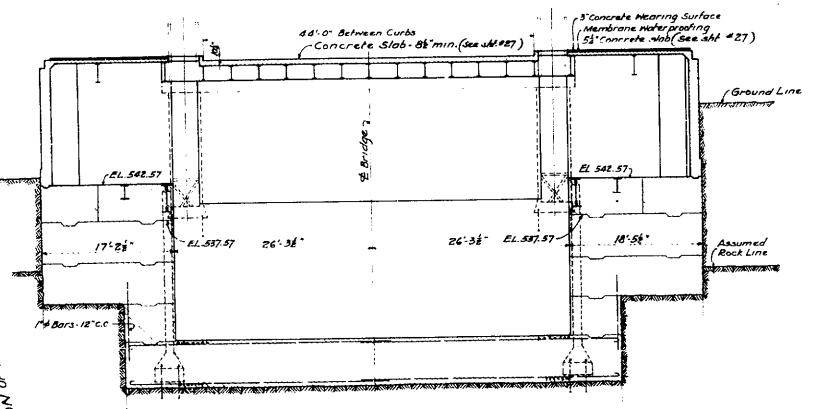
SECTION A-A
For Reinforcing steel see Sect. E.E. & C.C.

SECTION E-E.

SECTION C.C.



SECTION D-D.



SECTION B-B.

Classes of concrete
Flag and front and rear walls of counterweight pit, the lower supports, in the abutment, machinery room enclosure walls and walls about machinery rooms, wharves and concrete around machinery beams shall be class X concrete.
All other concrete is the obtained shall be class A concrete.

Notes.
For general notes see sheet #3.
Reinforcing steel for west abutment same as East Pier except as shown.

Note.
Drawn as shown on sheet #10, which reference to concrete around machinery beams and on this sheet with reference to the rear wall of the abutment of concrete below 27' below is cast-in-place concrete.
All concrete above the indicated points, where shown, is concrete.

**WEST ABUTMENT
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.**

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.

Approved Sept. 13, 1933

Approved Sept. 12, 1933

Approved Sept. 12, 1933

Approved Sept. 12, 1933

Approved recommended

Approved

Approved

Approved

Approved

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAHECK BLOCK, CHICAGO, ILL.

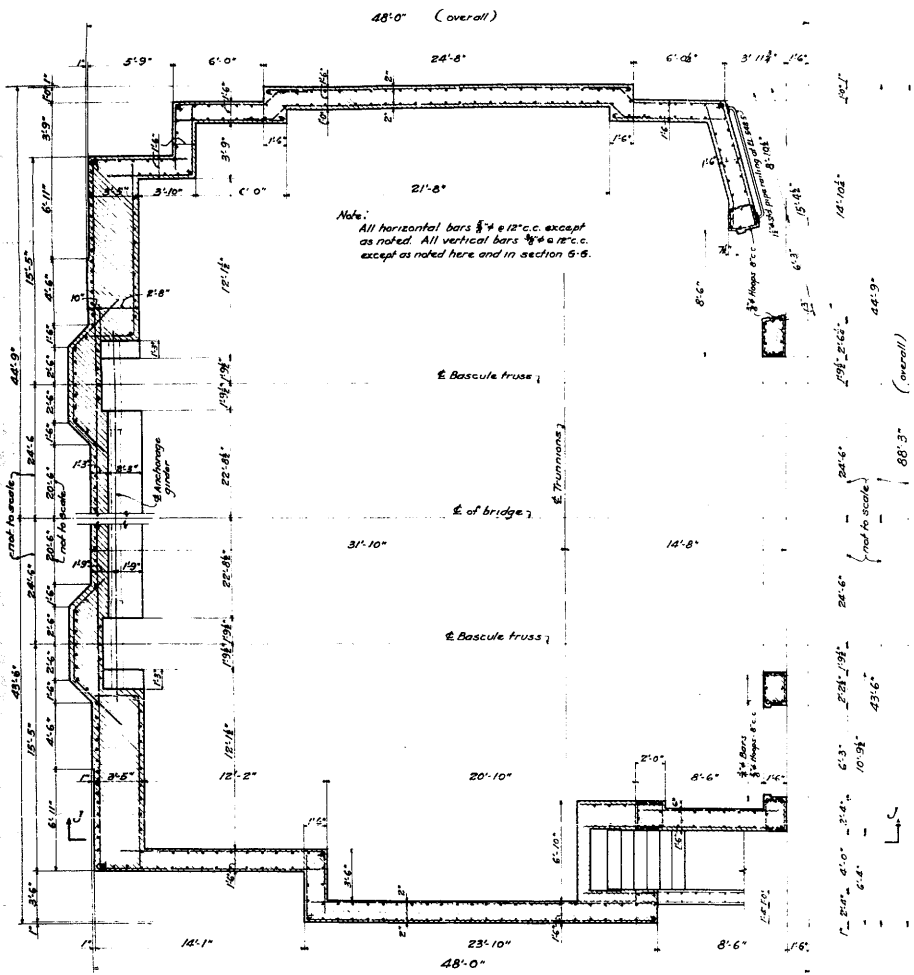
DRAWN BY I.E.
TRACED BY J.A.
CHECKED BY J.A.
REVISED AUG. 18, 1933

SCALE 1"=10'
DATE FEB. 28, 1933

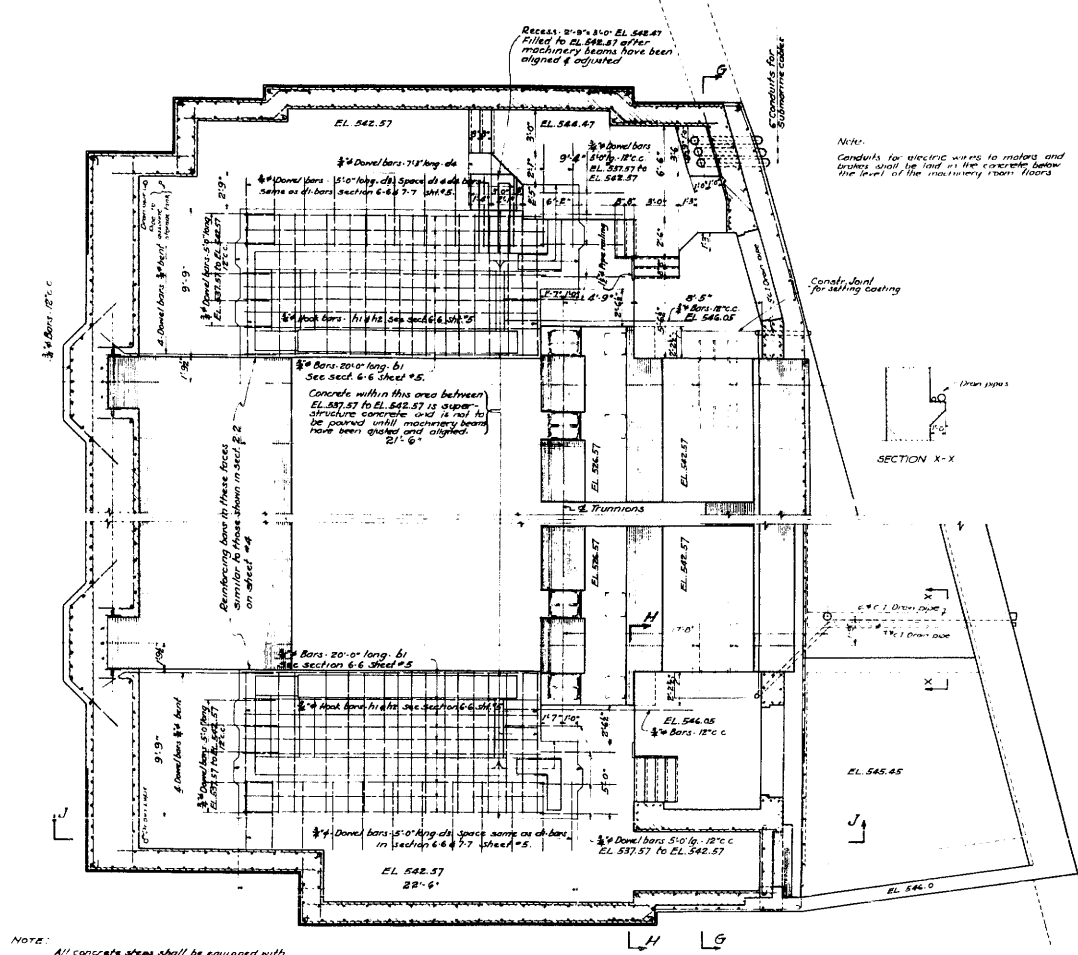
SHEET NO. 1343-9

Accession No. 3308





SECTION FF.
FOR LOCATION SEE SHEET #11



NOTE: All concrete slabs shall be equipped with Federal safety tread style A 4" wide as manufactured by American Abrasive Metals Co. New York, N.Y. or equal.
For general notes see sheet #3.
For sections G, G, H, H & J, J see sheet #11.

PLAN AT EL. 546.0.

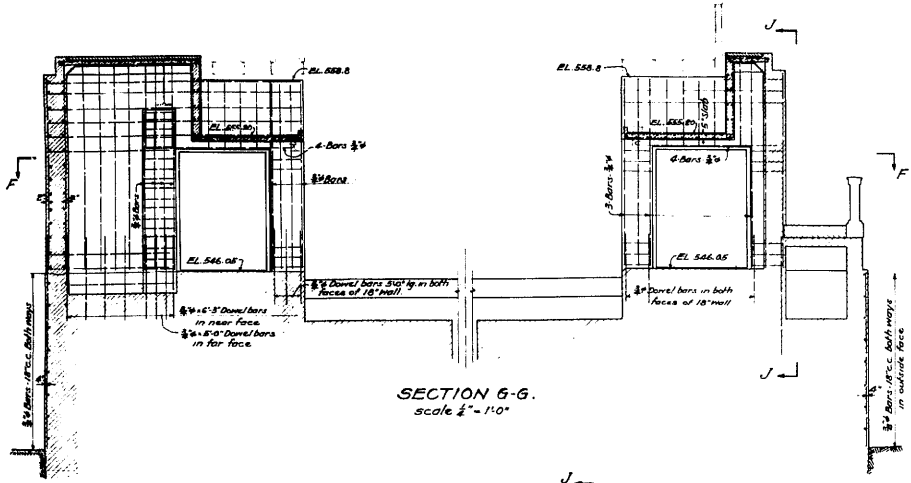
WEST ABUTMENT
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]*
S. J. G. Scherzer
Managing Engineer
Approved: *[Signature]*
Chief Engineer

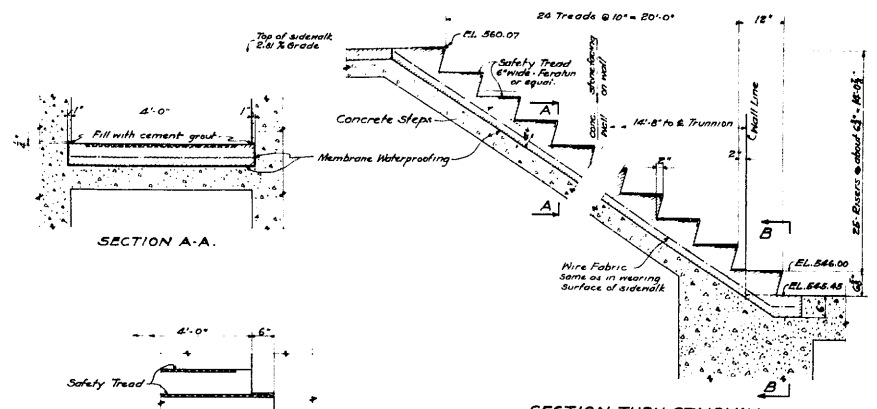
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MINARDIN K. BLICK
CHICAGO, ILL.
Bridge Engineer
Approved: *[Signature]*
Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MINARDIN K. BLICK
CHICAGO, ILL.
DRAWN BY A. E. B.
CHECKED BY J. M.
DATE APRIL 23, 1923
REVISION NOV 18 1923
SCALE 1" = 10'
DATE APRIL 23, 1923
SHEET NO. 1343-10



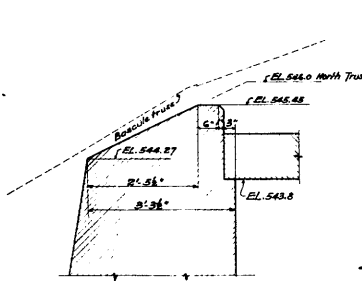


SECTION G-G
scale 1/2" = 1'-0"

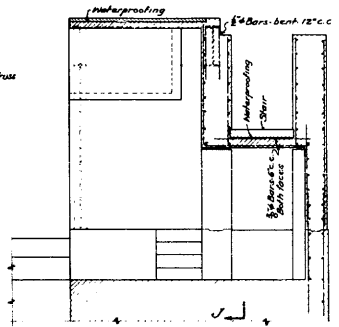


SECTION A-A.

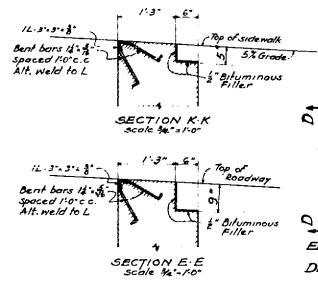
SECTION THROUGH STAIRWAY.



DETAIL AT FRONT WALL.
scale 1/2" = 1'-0"



SECTION H-H.
scale 1/2" = 1'-0"
24 Treads = 20'-0"

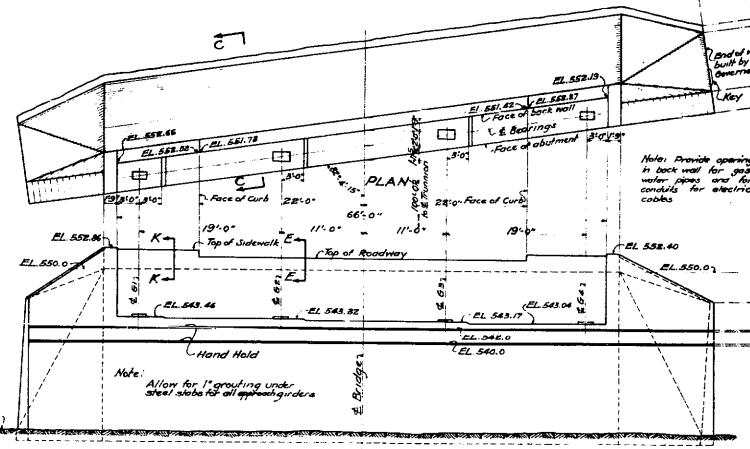


SECTION K-K
scale 3/8" = 1'-0"

SECTION E-E
scale 1/4" = 1'-0"

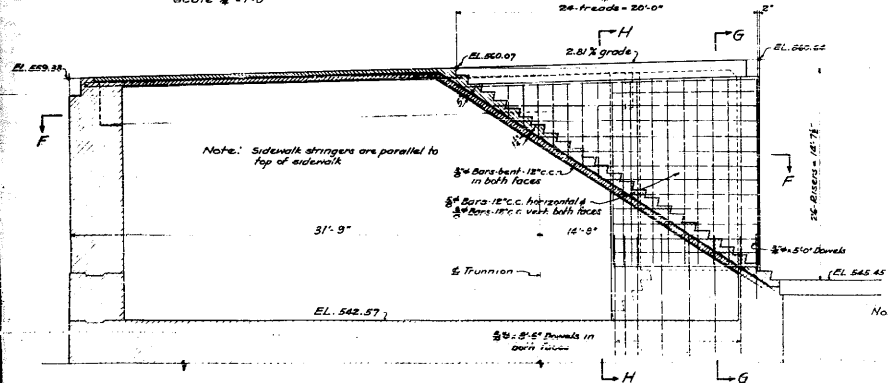
ELEVATION SECTION D-D.
DETAIL OF HAND HOLDS.
scale 3/4" = 1'-0"

SECTION C-C.



EAST ABUTMENT (includes in concrete for substructure)
scale 1/2" = 1'-0"

EAST ABUTMENT & DETAILS OF WEST ABUTMENT DOUBLE LEAF TRUNNION BASCULE BRIDGE OVER THE ILLINOIS WATERWAY AT RUBY ST. JOLIET ILL.



SECTION J-J.
scale 1/2" = 1'-0"

Note: For section E-E see sheet # 10 For general notes see sheet # 3

THE SCHERZER ROLLING LIFT BRIDGE CO.

Approved: *[Signature]*
Supt. Engineer
Approved: *[Signature]*
Chief Engineer

STATE OF ILLINOIS DEPARTMENT OF PUBLIC WORKS AND BUILDINGS DIVISION OF WATERWAYS

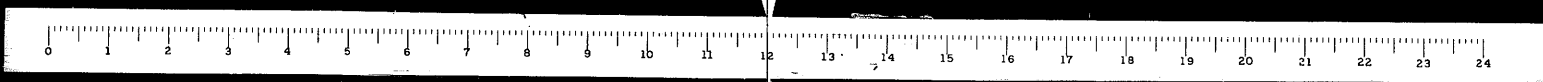
Approval recommended: _____
Design Engineer
Approved: _____
Chief Engineer

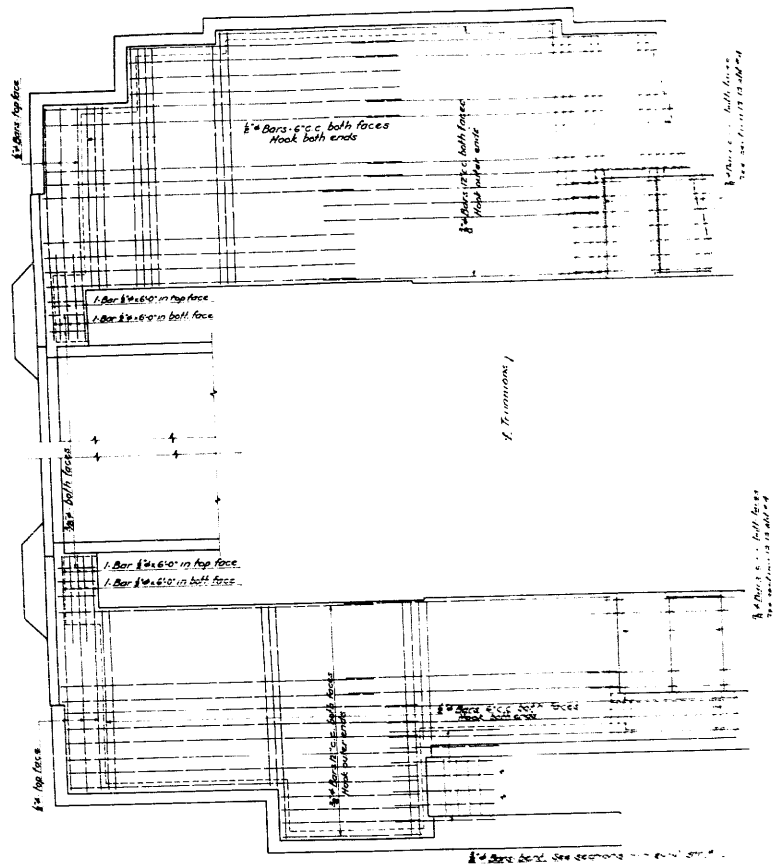
DESIGNED BY THE SCHERZER ROLLING LIFT BRIDGE CO. MONAQUON BLOCK, CHICAGO, ILL.

DRAWN BY A. L. BEAVER TRACED BY J. M. DATE APR. 23, 1933 REVISED AUG. 18, 1933

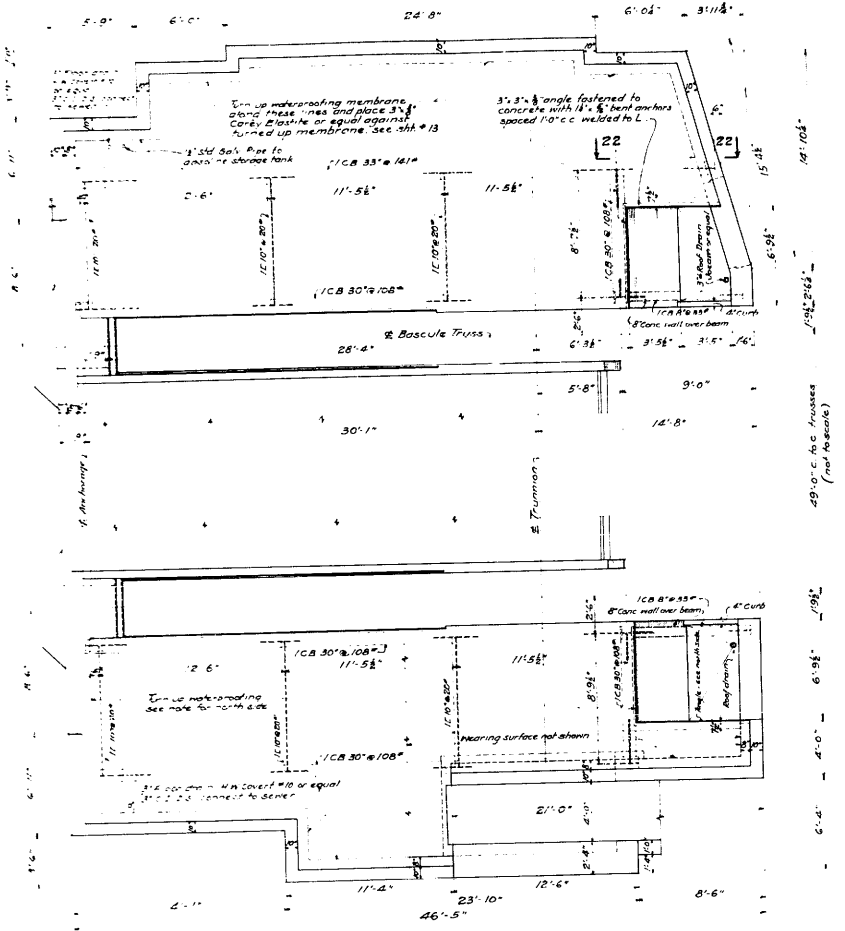
SHEET NO. 1543-11

Accession No. 3310





PLAN AT SIDEWALK LEVEL.



PLAN AT SIDEWALK LEVEL.

SEE SECTION 11-11 FOR DETAILS OF REINFORCEMENT

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]*
Supt. Engineer

Approved: *[Signature]*
Bridge Engineer

WEST ABUTMENT
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
CHICAGO, ILL.

DRAWN BY A. L. B.
CHECKED BY J. P. D.
REVISION AUG. 18, 1935

SCALE 1" = 10'
DATE APRIL 22, 1935
SHEET NO. 1343-12

Accession No. 3371



STRESSES IN FLOOR BEAMS & STRINGERS

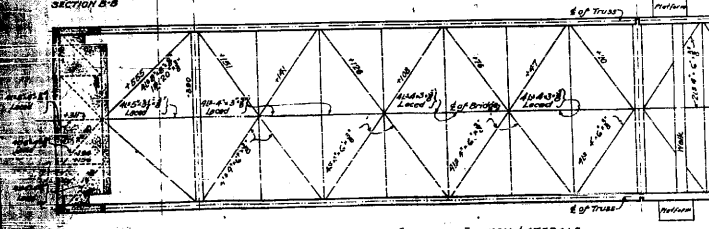
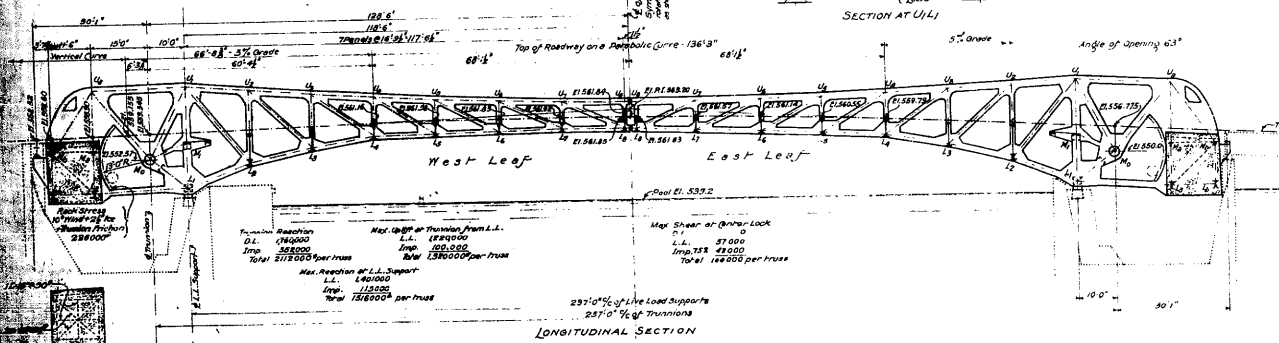
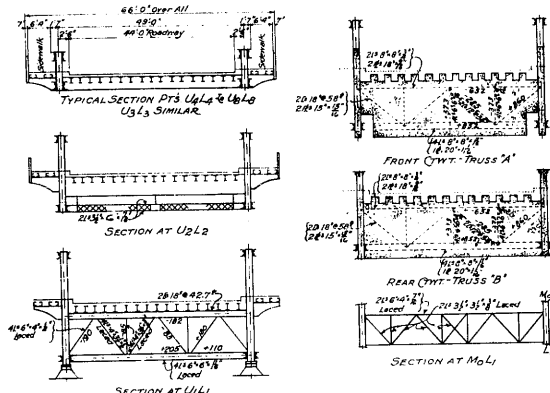
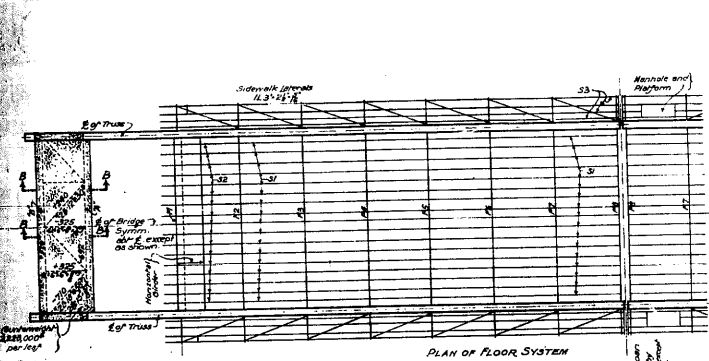
NUMBER	BEAMS IN HOOD				MOMENTS IN 1000 FT.-LBS.				SECTION
	D.L.	L.L.	IMR	TOTAL	D.L.	L.L.	IMR	TOTAL	
31	1.0	16.7	5.0	22.7	4.3	56.3	18.5	79.1	18" C. 80.6 x 3"
32	1.0	16.0	16.0	33.0	4.4	70.5	70.5	146.0	18" C. 80.6 x 3"
33	0.3	17		2.0	1.8	7.1		8.9	10" C. 30 x 3"

STRESSES IN MAIN TRUSSES - REAR ARM

MEMBER NUMBER	BRIDGE OPEN										SECTION		
	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	AREA REQD.	AREA USED
U14	+1222	-1298	+1966	+752	-1502	+1748	18.0	31.5	111.4	22.4	401.6 x 18"	26.24 x 18"	26.24 x 18"
L14	+252	-50	-302	+510	-612	-102	16.0	38.5	52.6	40.6	401.6 x 18"	26.24 x 18"	26.24 x 18"
L4	0			+280	-36	+336	16.0	21.0	35.0	27.0	401.6 x 18"	26.24 x 18"	26.24 x 18"

STRESSES IN MAIN TRUSSES - FRONT ARM

MEMBER NUMBER	ROADWAY L.L.										SECTION		
	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	TOTAL	MAXIMUM	MINIMUM	AREA REQD.	AREA USED
U12	+768	-278	+1046	+158	-318	+127	18.0	31.5	111.4	22.4	401.6 x 18"	26.24 x 18"	26.24 x 18"
L12	+278	-768	-490	+158	-318	-160	18.0	31.5	111.4	22.4	401.6 x 18"	26.24 x 18"	26.24 x 18"



General Notes:
 1. Actual weight for roadway floor system 4-20 ton trucks for main trusses and girders Class H20 on roadway and a variable uniform load on sidewalk as per specifications.
 2. Design Specifications for features common to fixed and movable bridges A.A. Highway Officials, 1928.
 3. Features special to movable bridges, Navya Specifications for Movable Bridges, 1923.
 Trucks: 47 (Axle loads) 167' 9"

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: Sept 12, 1923
 Chief Engineer

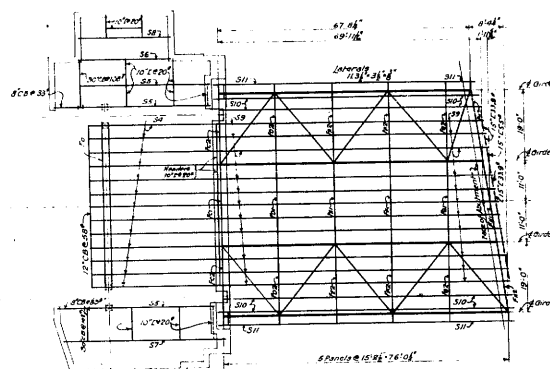
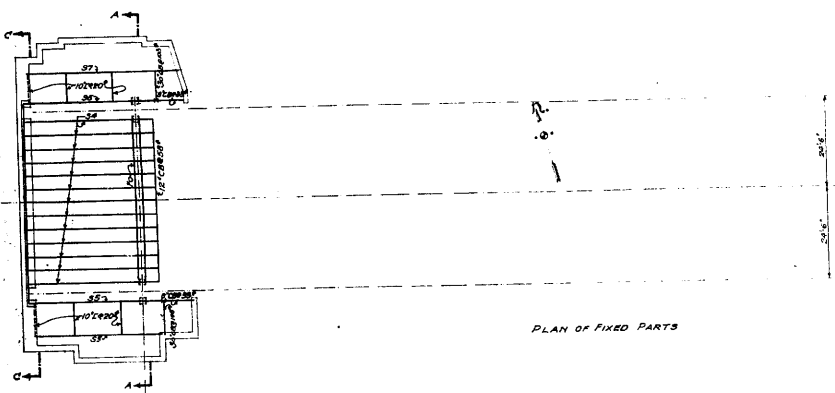
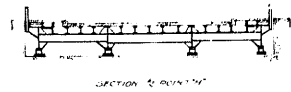
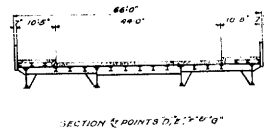
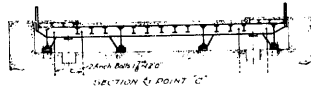
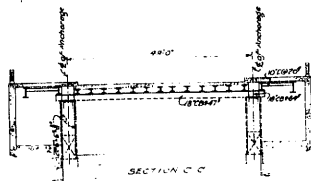
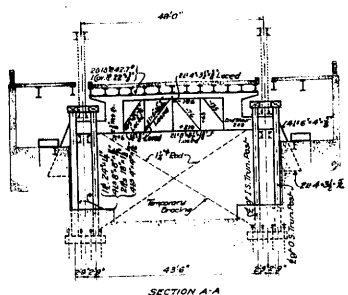
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONAUCK BLOCK, CHICAGO, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONAUCK BLOCK, CHICAGO, ILL.

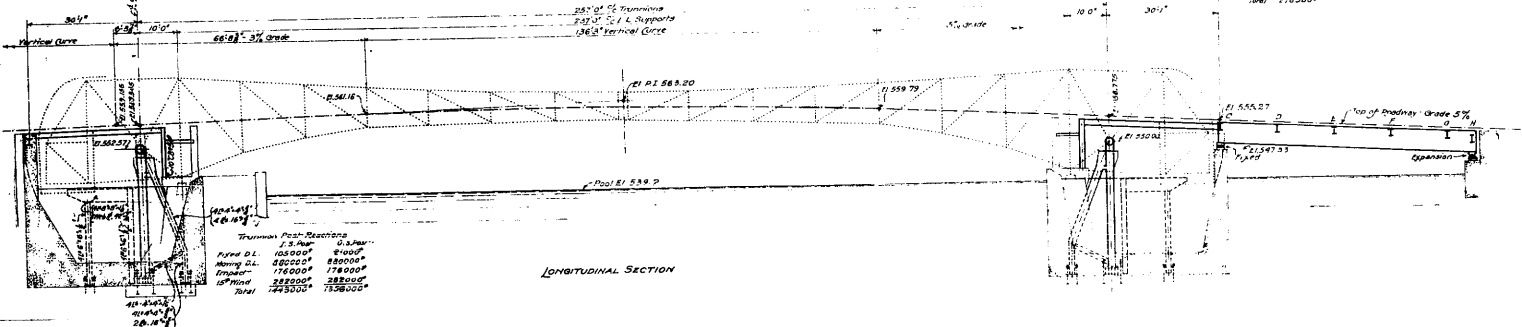
TRACED BY E.C.
 CHECKED BY E.C.
 REVISED COPY 12-1933

DATE MARCH 27, 1933
 SHEET NO. 1343-14
 Section No. 3818





MEMBER	SHEARS IN 1000*				MOMENTS IN 1000 FT LBS				SECTION
	D.L.	L.L.	IMP.	TOTAL	D.L.	L.L.	IMP.	TOTAL	
54	7.0	21.8	6.9	35.8	22.	88	188	1188	21"CA#35" X 4"
55	12.0	10.0	-	22.0	100.	82	-	182	30"CA#100" X 8"
56	14.4	6.6	-	21.0	268	40	-	308	10"CA#100" X 8"
57	19.4	16.0	-	35.4	184	180	-	364	10"CA#100" X 8"
58	6.1	7.3	-	13.4	36	43	-	79	24"TR#25" X 8"
59	3.3	19.3	5.8	28.4	13	45	14	72	10"CA#100" X 8"
510	1.7	2.3	-	4.0	6	23	-	29	10"CA#100" X 8"
511	1.3	1.3	-	2.6	6	23	-	29	10"CA#100" X 8"
512	2.3	12.9	12.9	28.1	104	235	71	400	30"CA#100" X 8"
513	2.3	12.9	12.9	28.1	110	238	37	408	30"CA#100" X 8"
514	2.3	12.9	12.9	28.1	114	242	64	420	30"CA#100" X 8"
515	2.3	12.9	12.9	28.1	118	246	91	432	30"CA#100" X 8"
516	2.3	12.9	12.9	28.1	122	250	118	444	30"CA#100" X 8"
517	2.3	12.9	12.9	28.1	126	254	145	456	30"CA#100" X 8"
518	2.3	12.9	12.9	28.1	130	258	172	468	30"CA#100" X 8"
519	2.3	12.9	12.9	28.1	134	262	199	480	30"CA#100" X 8"
520	2.3	12.9	12.9	28.1	138	266	226	492	30"CA#100" X 8"
521	2.3	12.9	12.9	28.1	142	270	253	504	30"CA#100" X 8"
522	2.3	12.9	12.9	28.1	146	274	280	516	30"CA#100" X 8"
523	2.3	12.9	12.9	28.1	150	278	307	528	30"CA#100" X 8"
524	2.3	12.9	12.9	28.1	154	282	334	540	30"CA#100" X 8"
525	2.3	12.9	12.9	28.1	158	286	361	552	30"CA#100" X 8"
526	2.3	12.9	12.9	28.1	162	290	388	564	30"CA#100" X 8"
527	2.3	12.9	12.9	28.1	166	294	415	576	30"CA#100" X 8"
528	2.3	12.9	12.9	28.1	170	298	442	588	30"CA#100" X 8"
529	2.3	12.9	12.9	28.1	174	302	469	600	30"CA#100" X 8"
530	2.3	12.9	12.9	28.1	178	306	496	612	30"CA#100" X 8"
531	2.3	12.9	12.9	28.1	182	310	523	624	30"CA#100" X 8"
532	2.3	12.9	12.9	28.1	186	314	550	636	30"CA#100" X 8"
533	2.3	12.9	12.9	28.1	190	318	577	648	30"CA#100" X 8"
534	2.3	12.9	12.9	28.1	194	322	604	660	30"CA#100" X 8"
535	2.3	12.9	12.9	28.1	198	326	631	672	30"CA#100" X 8"
536	2.3	12.9	12.9	28.1	202	330	658	684	30"CA#100" X 8"
537	2.3	12.9	12.9	28.1	206	334	685	696	30"CA#100" X 8"
538	2.3	12.9	12.9	28.1	210	338	712	708	30"CA#100" X 8"
539	2.3	12.9	12.9	28.1	214	342	739	720	30"CA#100" X 8"
540	2.3	12.9	12.9	28.1	218	346	766	732	30"CA#100" X 8"
541	2.3	12.9	12.9	28.1	222	350	793	744	30"CA#100" X 8"
542	2.3	12.9	12.9	28.1	226	354	820	756	30"CA#100" X 8"
543	2.3	12.9	12.9	28.1	230	358	847	768	30"CA#100" X 8"
544	2.3	12.9	12.9	28.1	234	362	874	780	30"CA#100" X 8"
545	2.3	12.9	12.9	28.1	238	366	901	792	30"CA#100" X 8"
546	2.3	12.9	12.9	28.1	242	370	928	804	30"CA#100" X 8"
547	2.3	12.9	12.9	28.1	246	374	955	816	30"CA#100" X 8"
548	2.3	12.9	12.9	28.1	250	378	982	828	30"CA#100" X 8"
549	2.3	12.9	12.9	28.1	254	382	1009	840	30"CA#100" X 8"
550	2.3	12.9	12.9	28.1	258	386	1036	852	30"CA#100" X 8"



Max Girder Reactions
 Deck C
 D.L. 27000*
 L.L. 40000*
 Imp. 49000*
 Total 116000*

Max Girder Reactions
 Deck S
 D.L. 27000*
 L.L. 35000*
 Imp. 49000*
 Total 111000*

STRESS SHEET - FIXED PARTS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.

Approved: 1/17/23
[Signature]
 Consulting Engineer

Approved: 2/13/23
[Signature]
 Chief Engineer

Approval recommended: _____
 Bridge Engineer

Approved: _____
 Chief Engineer

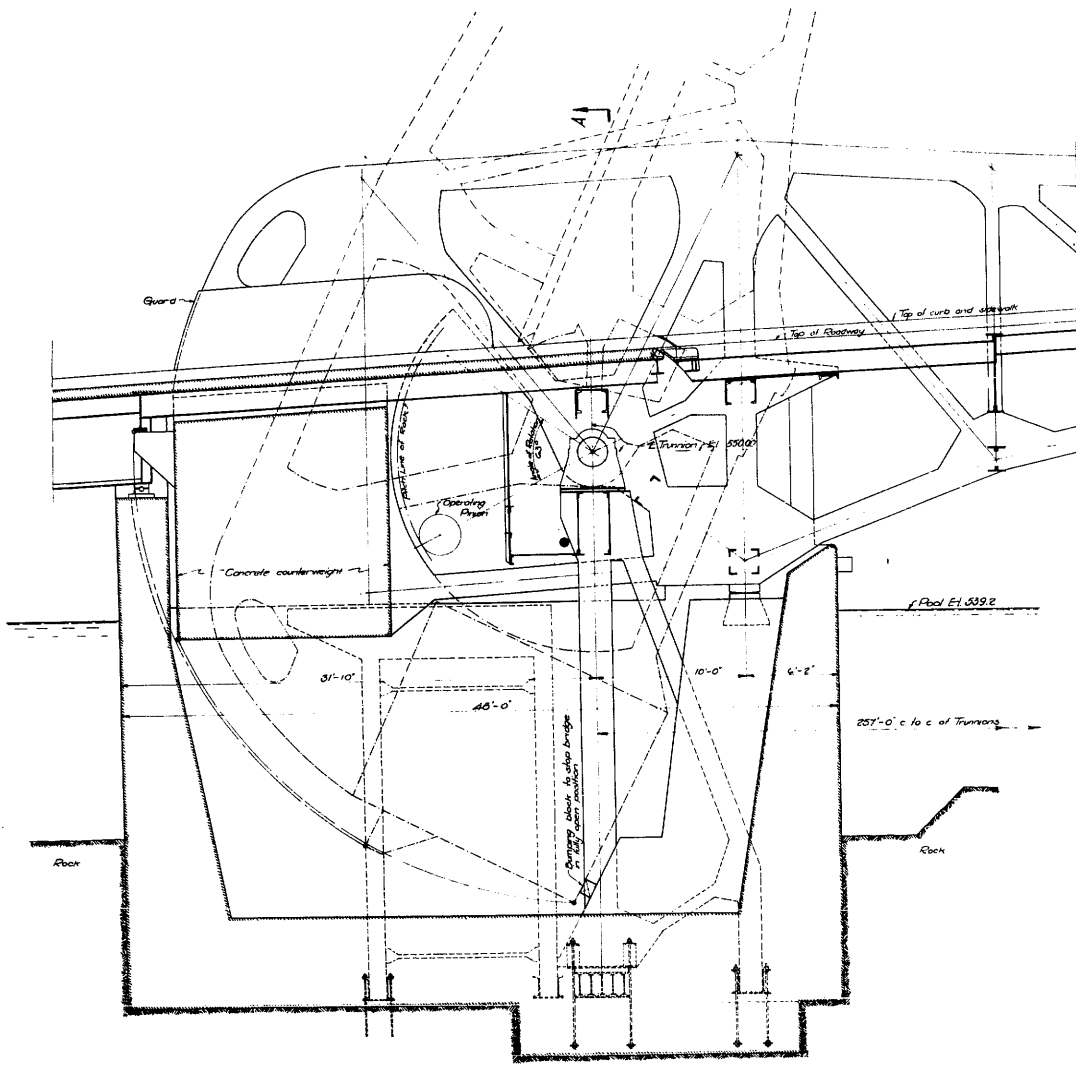
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONAUCK BLOCK, CHICAGO, ILL.

DRAWN BY H. B.
 TRACKED BY E. C.
 CHECKED BY A. B.
 REVISED SEP. 12, 1922

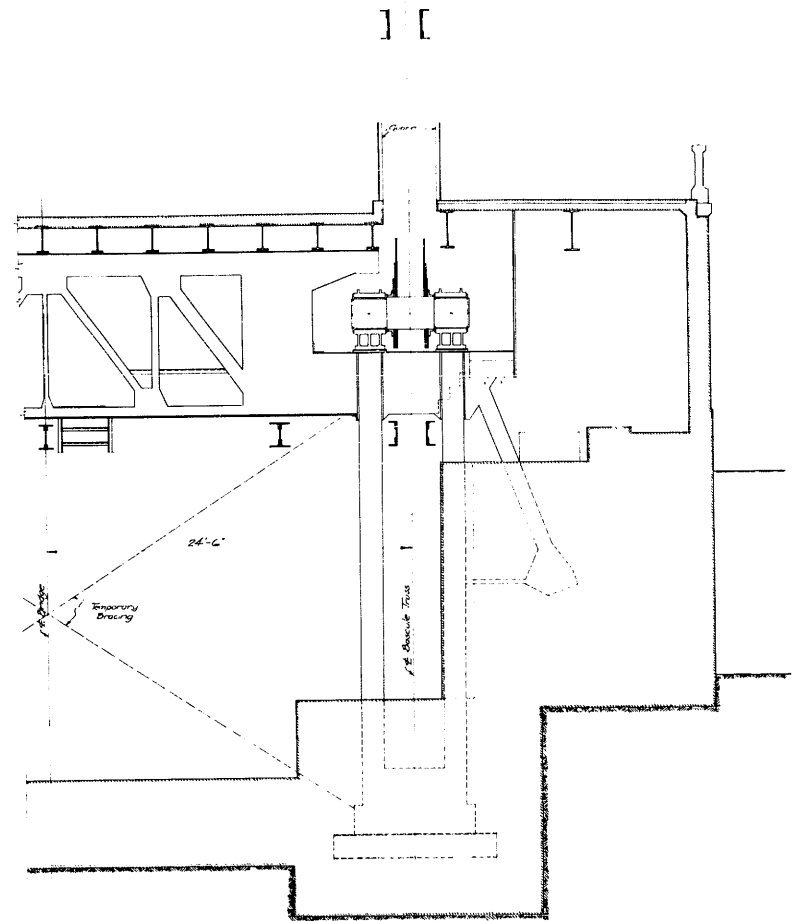
SCALE 1/4" = 1'-0"
 DATE MARCH 24, 1923

SHEET NO. 1943-15





CLEARANCE DIAGRAM FOR EAST LEAF
Diagram for West Leaf similar.



SECTION A-A

CLEARANCE DIAGRAM
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK CHICAGO, ILL.

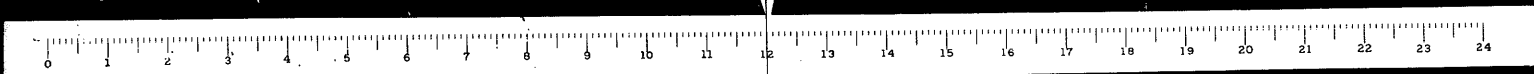
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS
DIVISION OF WATERWAYS
APPROVED
Sept 3, 1933
Checked by [Signature]
Approved [Signature]
Chief Engineer

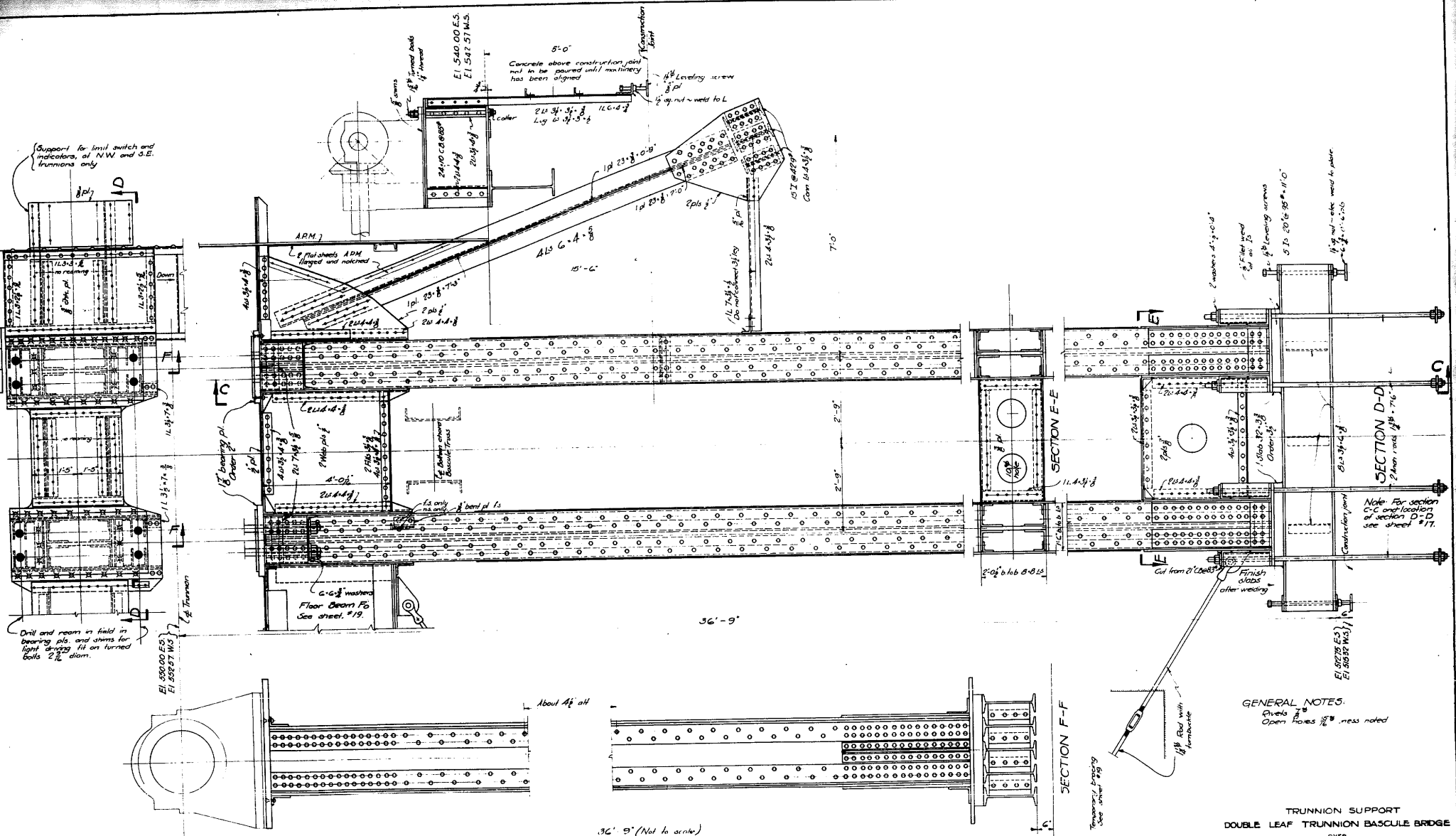
DRAWN BY ALRS
CHECKED BY AD
REVISION Aug. 30, 1933

SCALE 1/4" = 1'-0"
DATE FEB. 26, 1935

SHEET NO. 1343-1G

Accession No. 3535





GENERAL NOTES:
 Rivets
 Open Holes 1/2" mesh noted

TRUNNION SUPPORT
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOUETT, ILL.

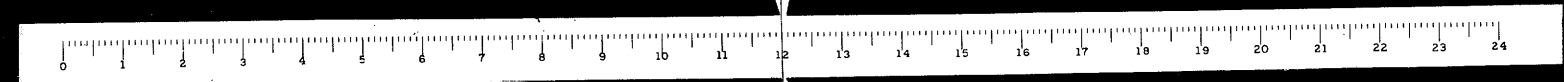
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONAUCK BLOCK, CHICAGO, ILL.

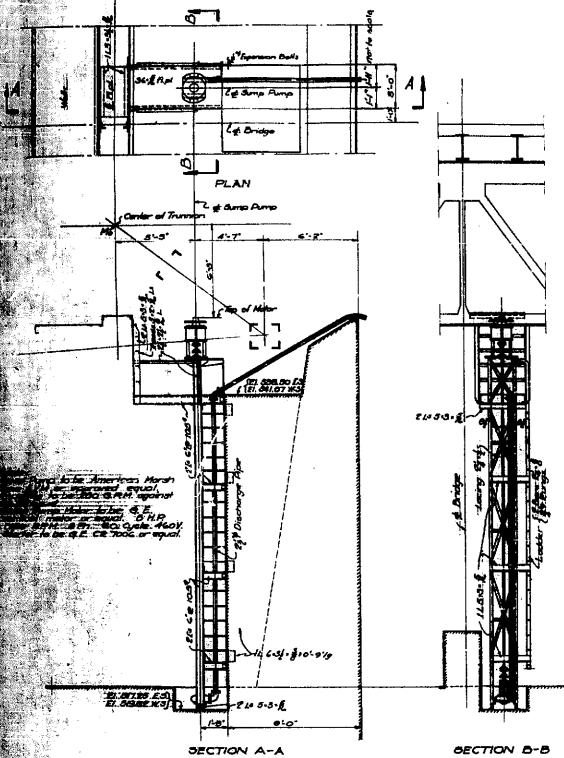
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approved _____
 Bridge Engineer

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved _____
 Chief Engineer

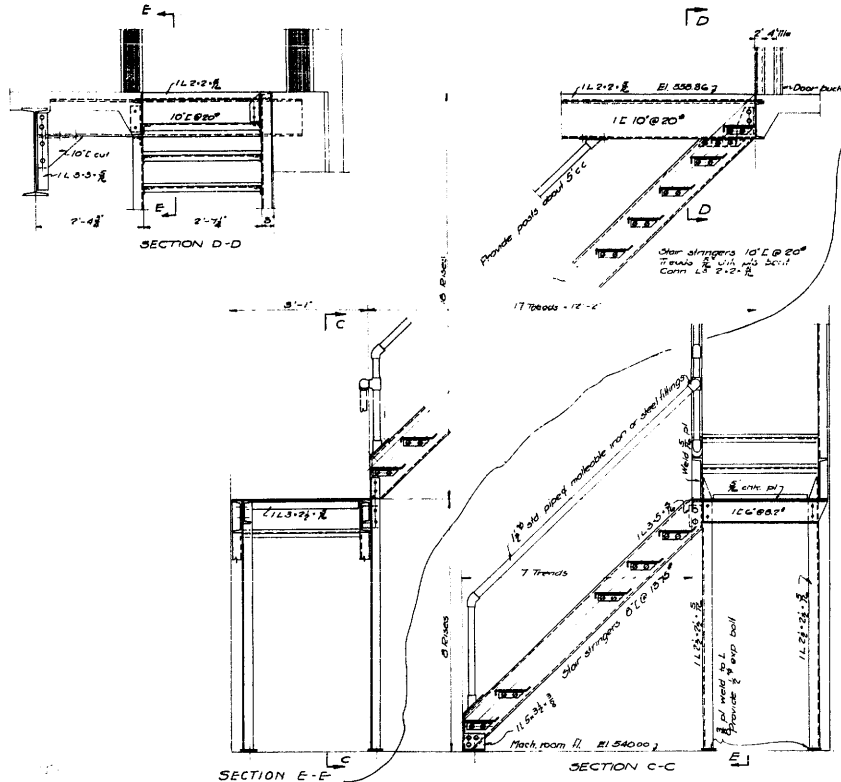
DRAWN BY ALMO
 TRACKED BY AS
 CHECKED BY D.B.V.
 REVISED Aug. 22, 1933

SCALE 1/2" = 1'-0"
 DATE FEB 21, 1933
 SHEET NO. 1343-16
 Accession No. 3317





WALKS AND LADDER AT SUMP PUMP
 Details shown for E.B. (looking north)
 Details for 100' bridge
 Scale of 1/2" = 1'-0"



STAIRS FROM CONTROL ROOM TO MACHINERY ROOM
 Rivals in 2-2 L, and 11 pl. 5/8" clay, and tapered to 8" high
 Other rivals 3/4" Open holes 1/2"

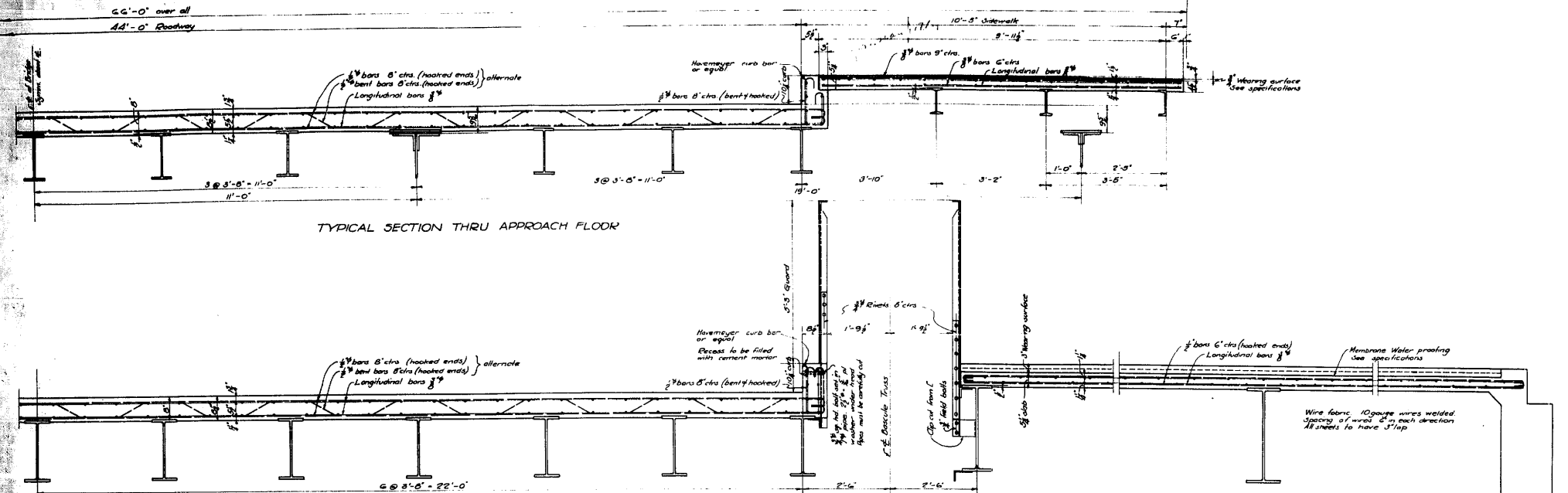
WALKS AND STAIRS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *[Signature]*
 Chief Engineer

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDING
 DIVISION OF WATERWAYS
 Approval recommended:
 Approved: *[Signature]*
 Chief Engineer

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONMOUTH BLOCK, CHICAGO, ILL.
 DRAWN BY ALMA E.A.B.
 TRACED BY A.B.
 CHECKED BY C.R.H.
 REVISION Aug. 24, 1933.
 SCALE: 1/4" = 1'-0" UNLESS NOTED
 DATE: APRIL 26, 1933.
 SHEET NO. 1345-21
 Accession No. 5529





TYPICAL SECTION THRU APPROACH FLOOR

SECTION C-C THRU FLOOR OVER COUNTERWEIGHT PIT

SECTION B-B THRU FLOOR OVER COUNTERWEIGHT PIT

Note:
The vertical curve above West Abutment to be taken care of by increased depth of roadway slab

FLOOR BEAM DETAILS AT POINT D

GENERAL NOTES:
Rivets $\frac{3}{8}$ " unless noted
Open holes $\frac{1}{2}$ " unless noted
For general notes concerning reinforcing steel see sheet #3

FLOOR DETAILS - FIXED PARTS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
CHICAGO, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

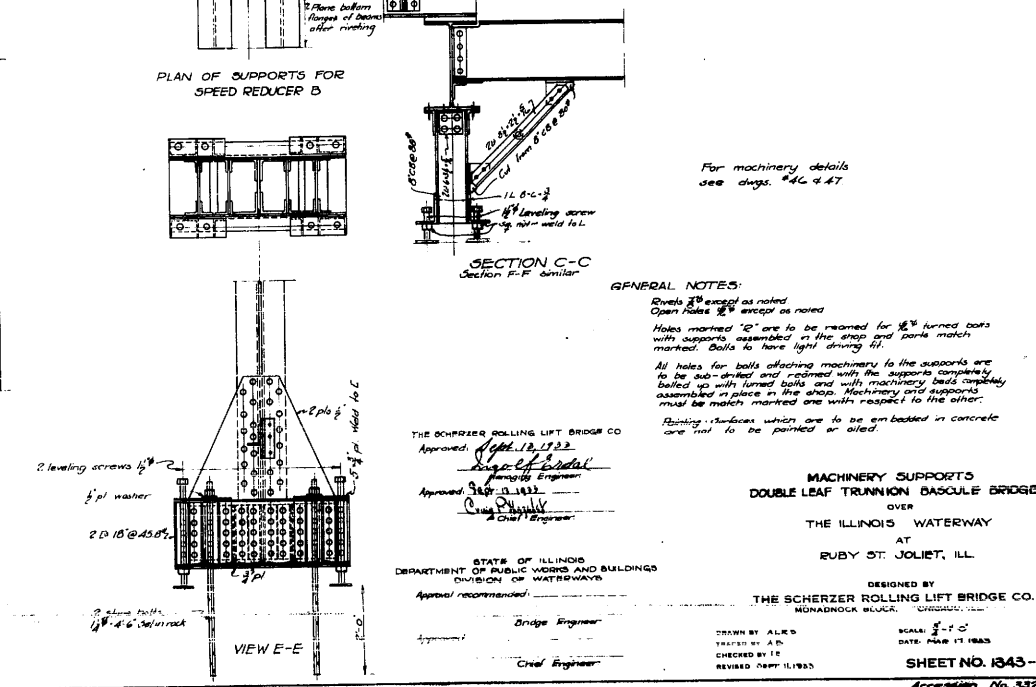
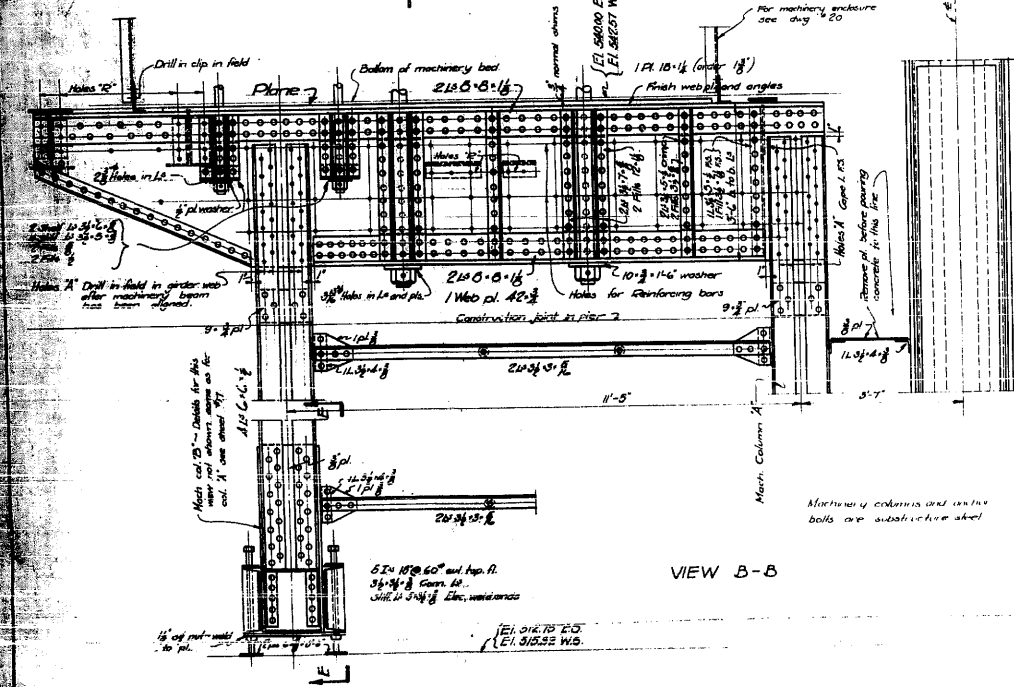
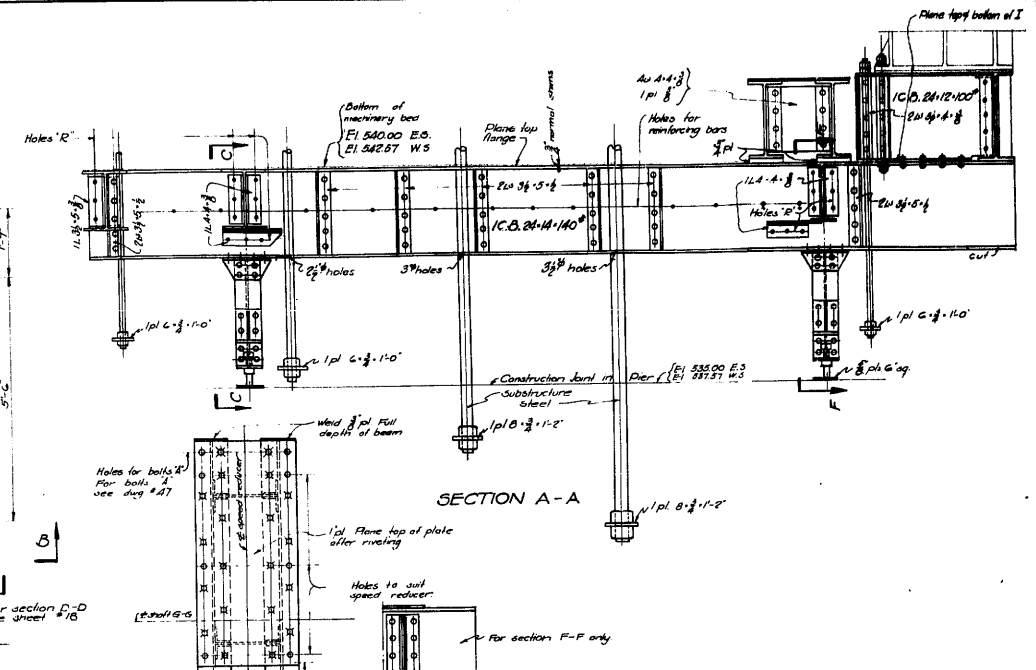
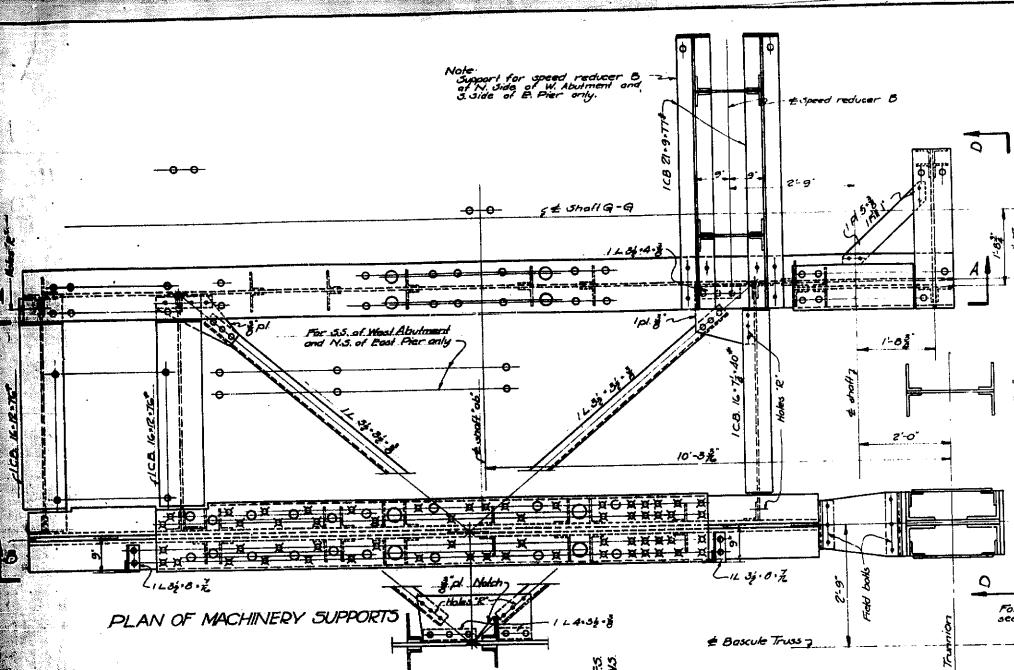
APPROVED: *[Signature]* Bridge Engineer
APPROVED: *[Signature]* Chief Engineer

DRAWN BY: A.B.
CHECKED BY: P.L.D.
REVISED AUG. 18, 1933

SCALE: $\frac{1}{4}$ " = 1'-0"
DATE: MAR. 18, 1933.

SHEET NO. 1343-27
Accession No. 332C





GENERAL NOTES:
 Rivets $\frac{3}{8}$ " except as noted
 Open Holes $\frac{1}{2}$ " except as noted
 Holes marked "R" are to be reamed for $\frac{3}{4}$ " turned bolts with supports assembled in the shop and parts marked marked. Bolts to have light driving fit.
 All holes for bolts attaching machinery to the supports are to be sub-drilled and reamed with the supports completely bolted up with turned bolts and with machinery beds completely assembled in place in the shop. Machinery and supports must be match marked one with respect to the other.
 Riveting in locations which are to be embedded in concrete are not to be painted or oiled.

THE SCHERZER ROLLING LIFT BRIDGE CO
 Approved: *Sept. 18, 1922*
George C. Bond
 Approved: *Sept. 2, 1922*
Charles D. Smith
 Chief Engineer

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approval recommended:

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONROE, ILL.

SCALE: $\frac{1}{4}$ " = 1'-0"

DRAWN BY A.L.E.S.
 CHECKED BY E.E.
 REVISED OCT. 11, 1923

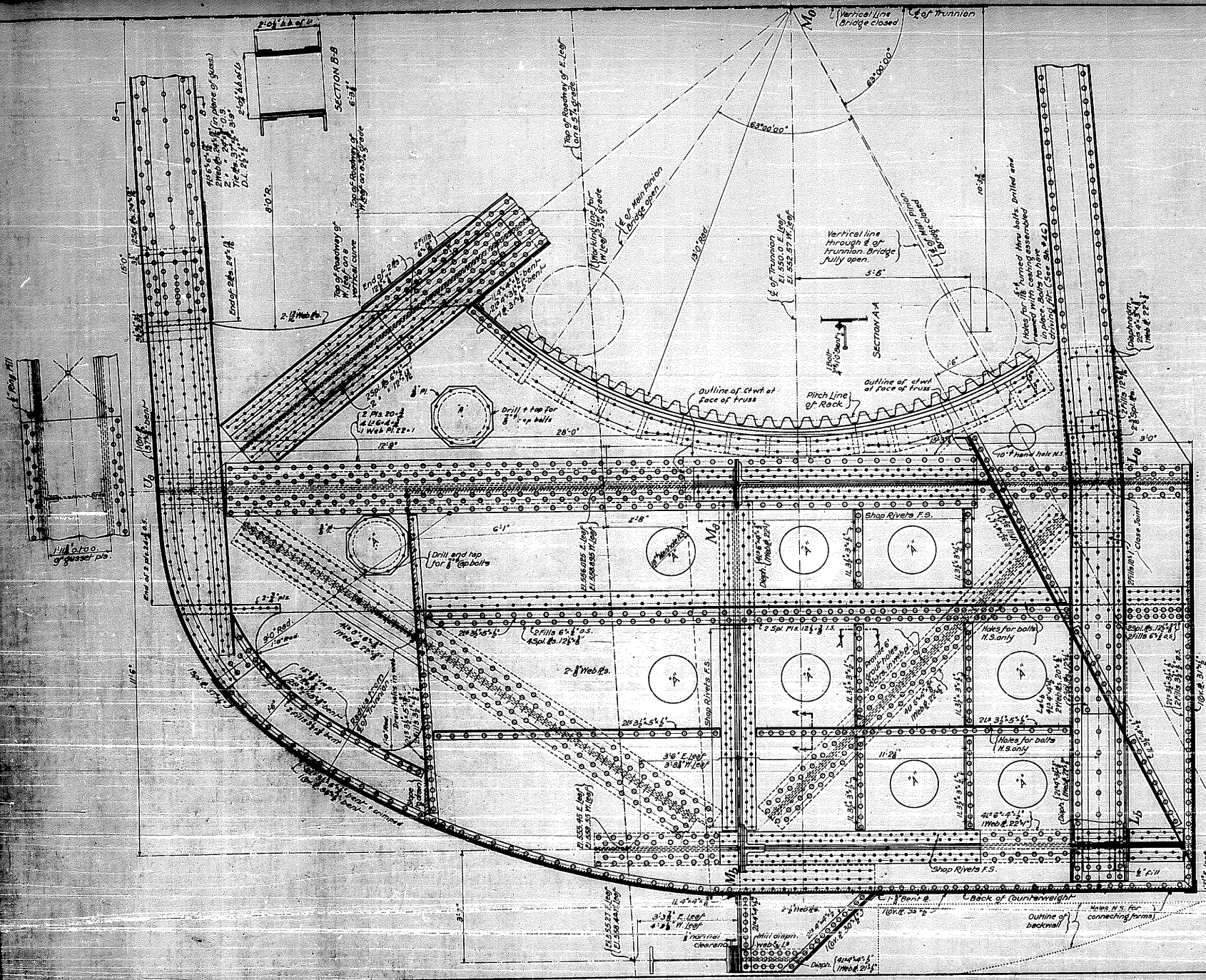
BRIDGE ENGINEER
 CIVIL ENGINEER

DATE: MAR. 11, 1924

SHEET NO. 1343-28

Accession No. 5327.





General Notes.
 Rivers & Open Holes 1/4" unless noted.
 Posts are to be vertical.
 Details are drawn for E Leaf.
 W. Leaf is similar.
 Shaded areas to be filled between web plate with counterweight material. See SH-44.
 Surfaces inaccessible after assembly including surfaces in contact with concrete shall have two coats of shop paint.

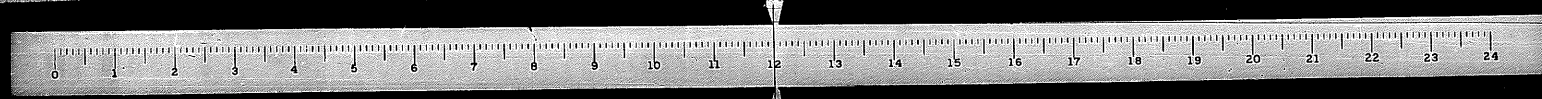
THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *Sept 12, 1933*
Reginald Birdal
 Managing Engineer
 Approved: *Sept 13, 1933*
Clayton E. Smith
 Chief Engineer

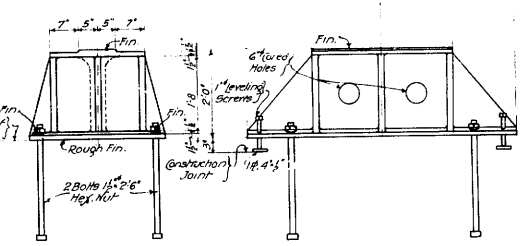
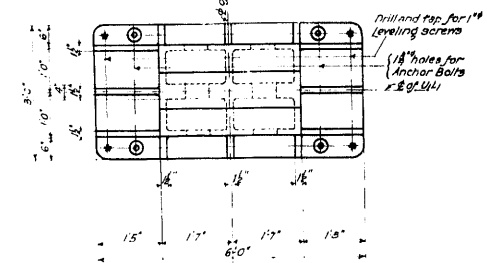
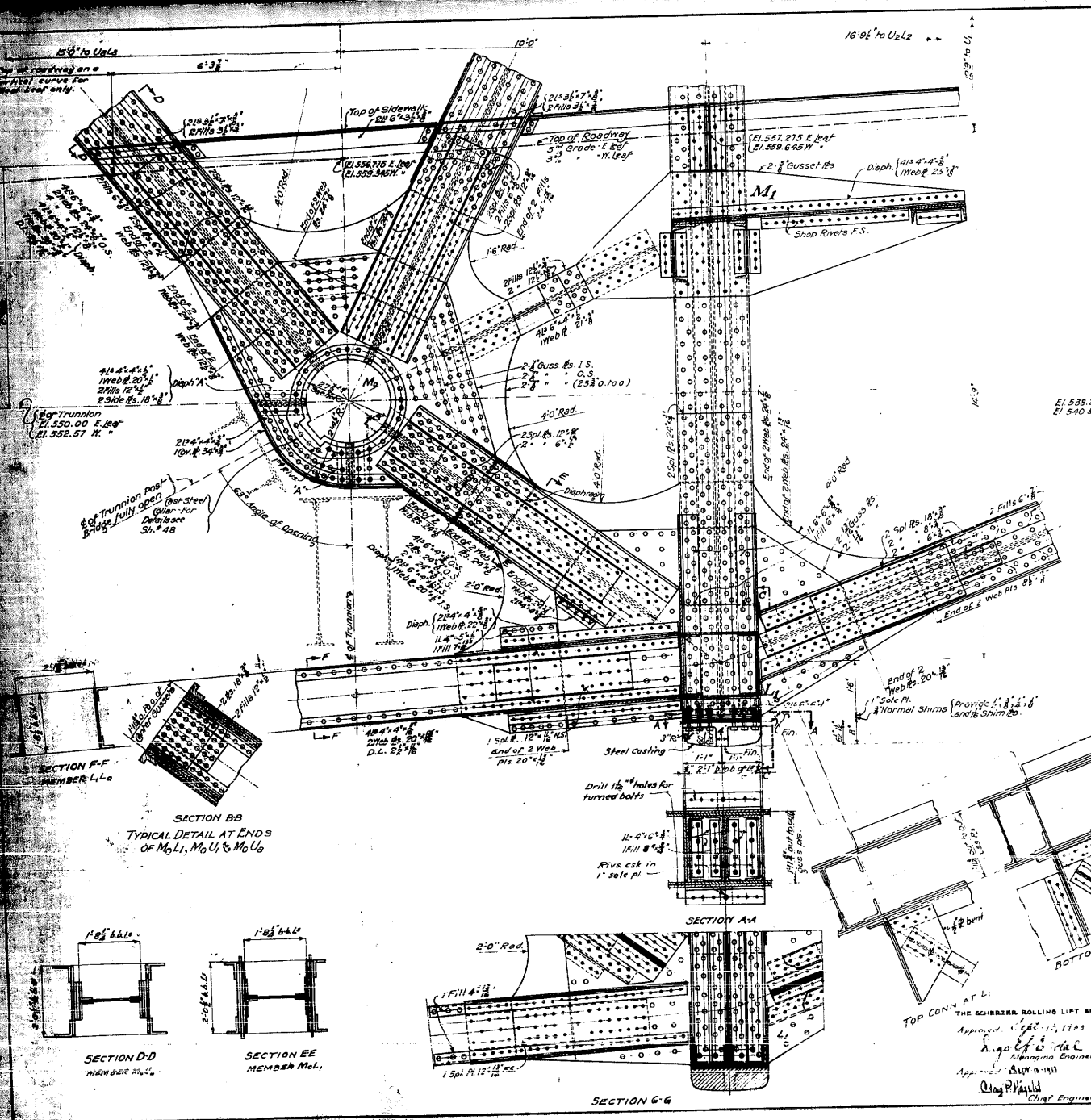
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approval recommended: _____
 Bridge Engineer
 Approved: _____
 Chief Engineer

BASCULE TRUSSES - POINTS 6' x 6'
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

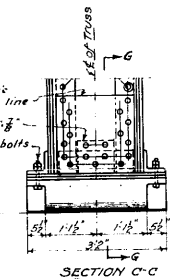
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONARD BLOCK, CHICAGO, ILL.

DRAWN BY P.L.D.
 TRACED BY J.P.C.
 CHECKED BY A.S.
 REBUILT Aug 23, 1933
 SCALE 1" = 10'
 DATE MARCH 28, 1933
 SHEET NO. 1343-29
 ACCESS 071 07 33 10



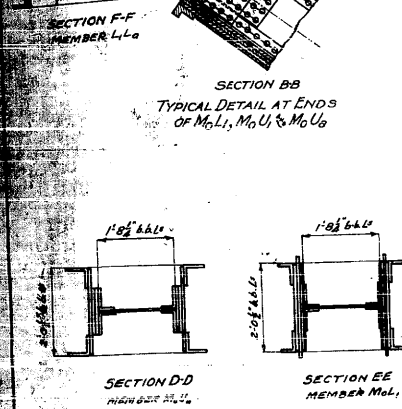


LIVE LOAD SUPPORT (Substructure steel)
 MATERIAL - CAST STEEL
 ANNEALED
 4 REQUIRED

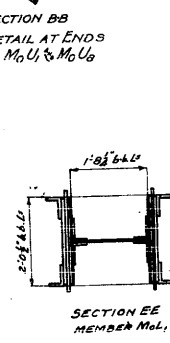


SECTION C-C

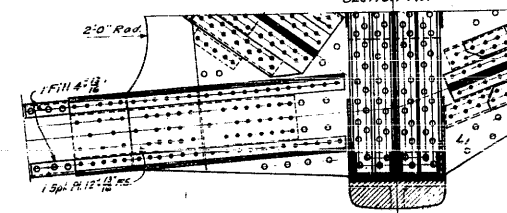
General Notes
 Rivets 3/4" unless noted.
 Open holes 1/2" unless noted.
 Bore holes for 2 7/8" munnion
 with collars riveted in place.
 Transition to bare light-drilling
 fit on web p.l.s. and diaphragms.



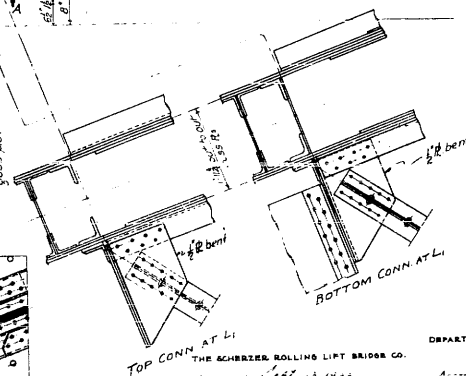
SECTION F-F
 MEMBER L4a



SECTION EE
 MEMBER M6



SECTION G-G



SECTION AA

BASCULE TRUSSES - POINTS O & I
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

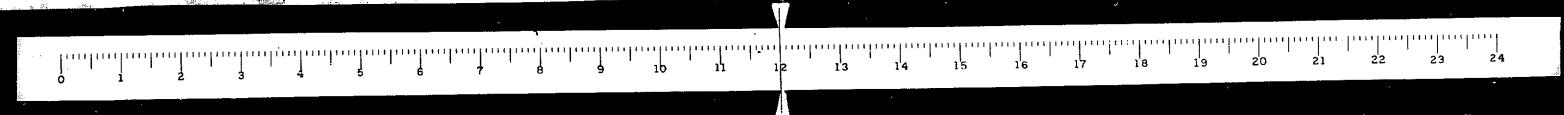
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONROCK ROCK CHICAGO ILL.

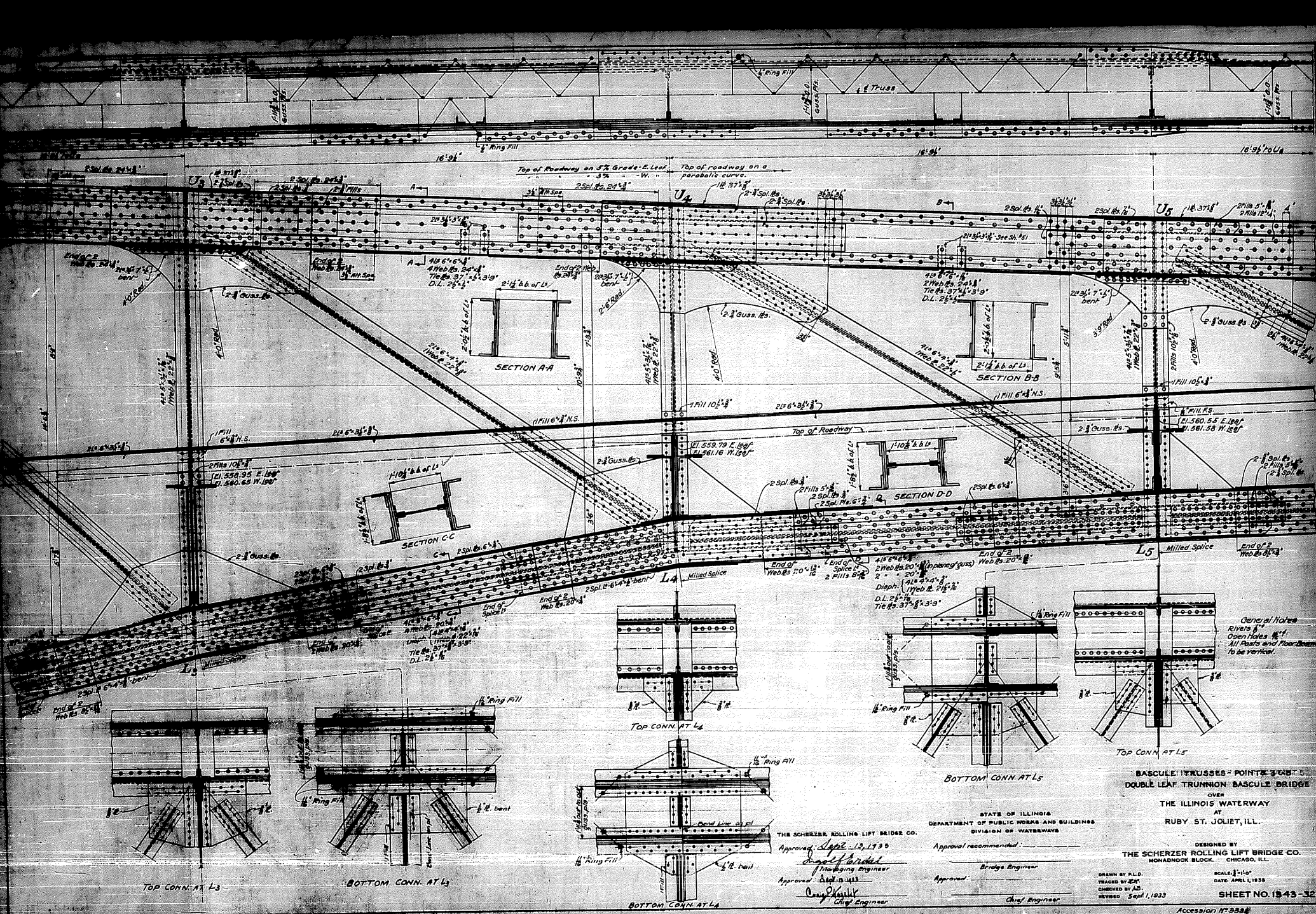
APPROVED BY
 Approved: *[Signature]*
 Bridge Engineer
 Approved: *[Signature]*
 Chief Engineer

APPROVED BY
 Approved: *[Signature]*
 Bridge Engineer
 Approved: *[Signature]*
 Chief Engineer

DRAWN BY P.L.D.
 TRACED BY R.W.
 ENLARGED BY A.D.
 REVISED Aug. 29, 1933

SCALE 1/4" = 1'-0"
 DATE APRIL 5, 1933
 SHEET NO. 1343-39





BASCULE TRUSSES - POINTE A POINT
DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

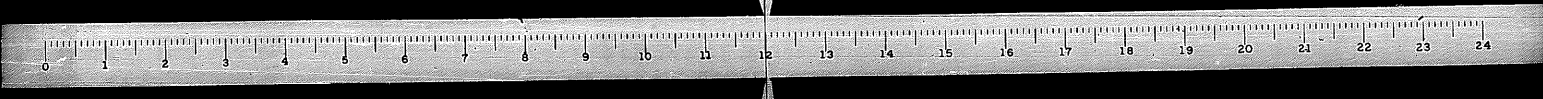
THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *Sept. 13, 1930*
Chief Engineer
 Approved: *Sept. 13, 1930*
Chief Engineer

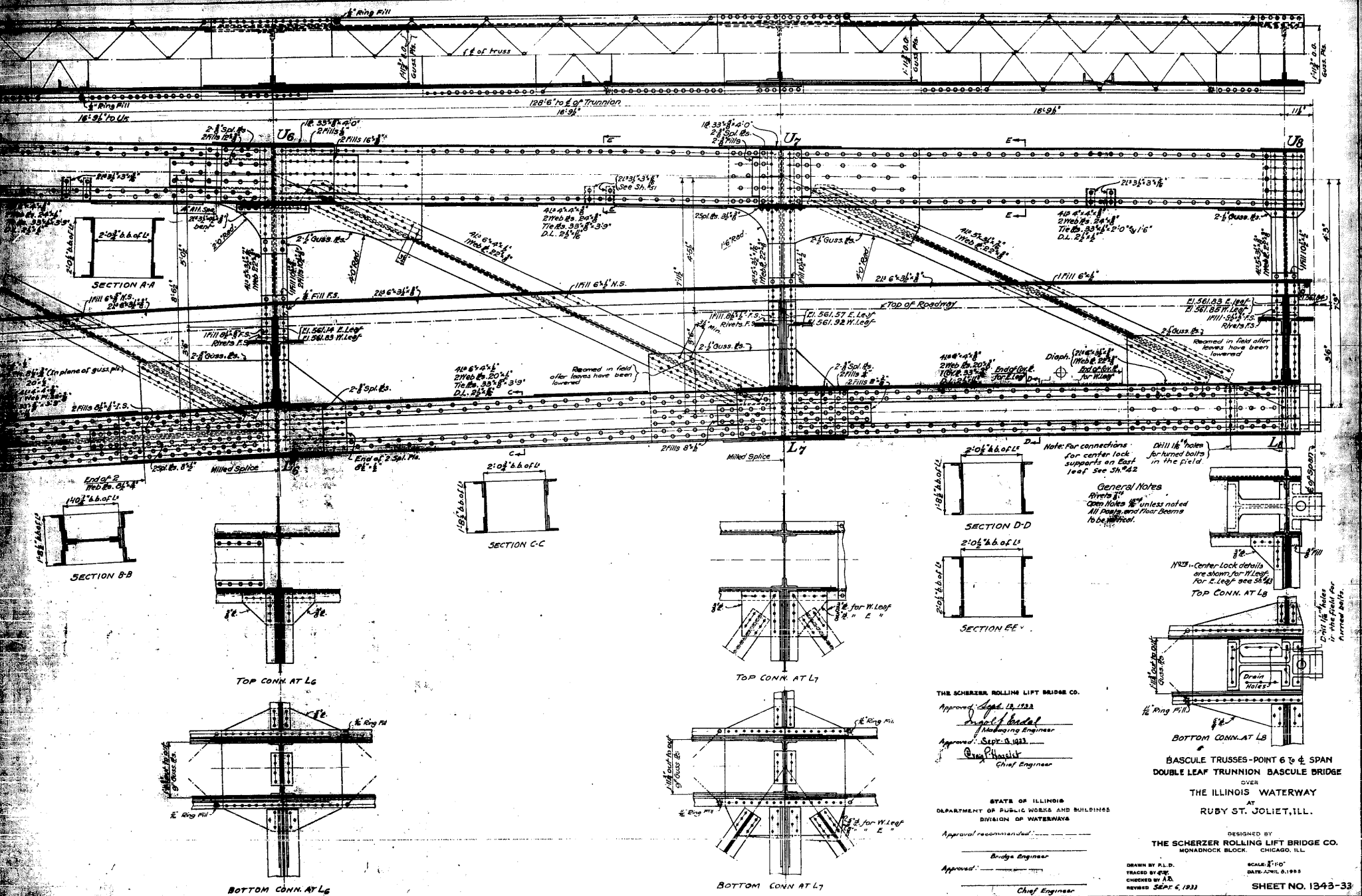
Approval recommended:

 Bridge Engineer
 Approved:

 Chief Engineer

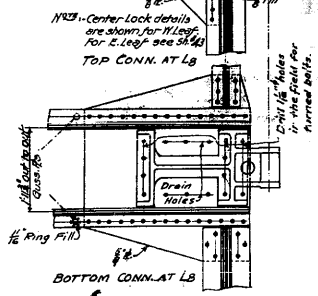
DRAWN BY P.L.D.
 TRACED BY E.A.
 CHECKED BY A.D.
 REVISED Sept. 1, 1933
 SCALE: 1/4" = 1'-0"
 DATE: APRIL 1, 1933
SHEET NO. 1543-32





Note: For connections for center lock supports on East leaf see SH. #42

General Notes
 Rivets 3"
 Open Holes unless noted
 All Posts and Floor Beams to be drilled.



THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: Sept. 18, 1933
Engelhardt
 Managing Engineer
 Approved: Sept. 8, 1933
Engelhardt
 Chief Engineer

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approval recommended: _____
 Bridge Engineer
 Approved: _____
 Chief Engineer

BASCULE TRUSSES-POINT 6 TO E SPAN
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

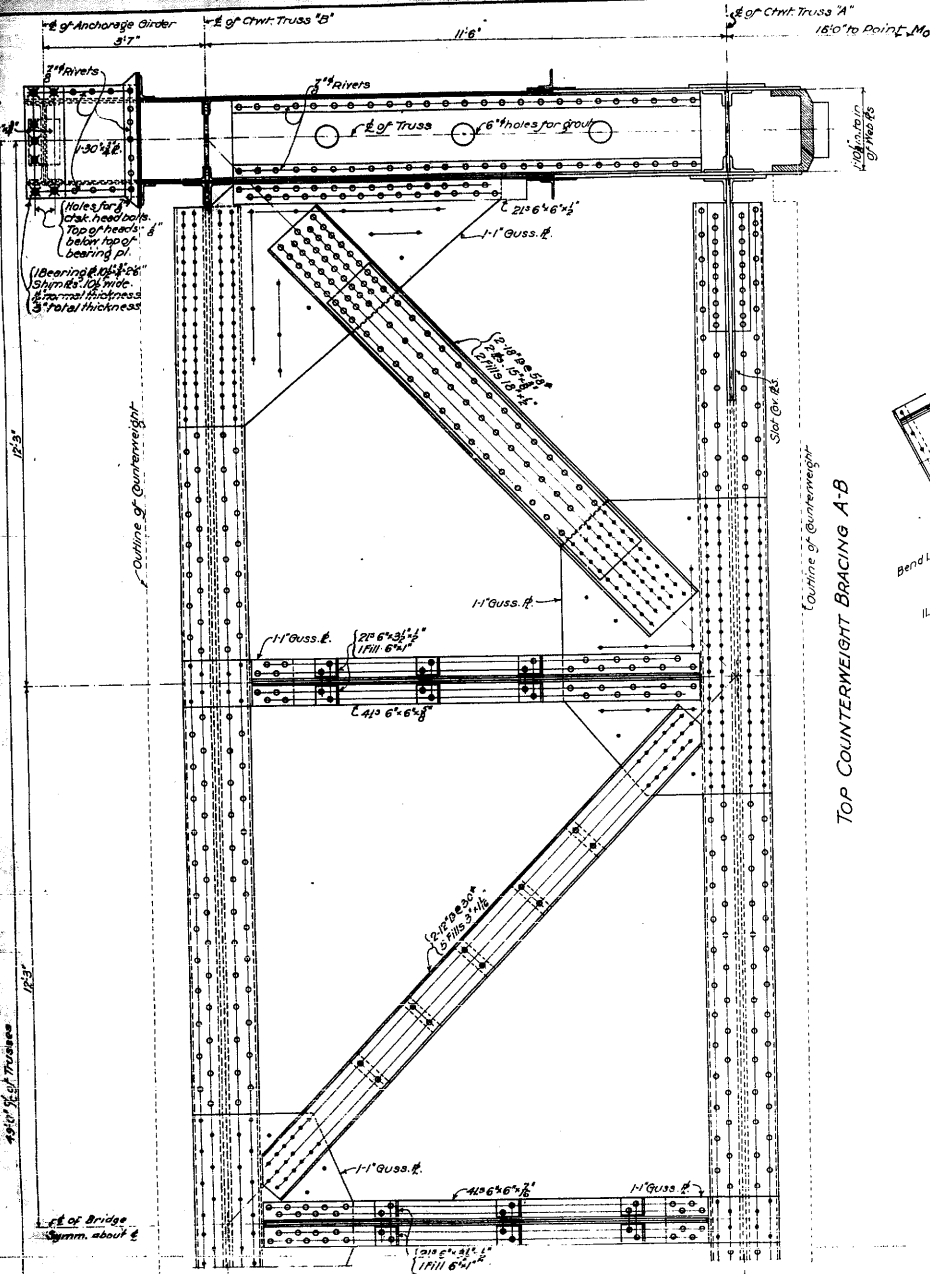
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY R.L.D.
 TRACED BY G.P.E.
 CHECKED BY A.S.
 REVISED SEPT. 6, 1933

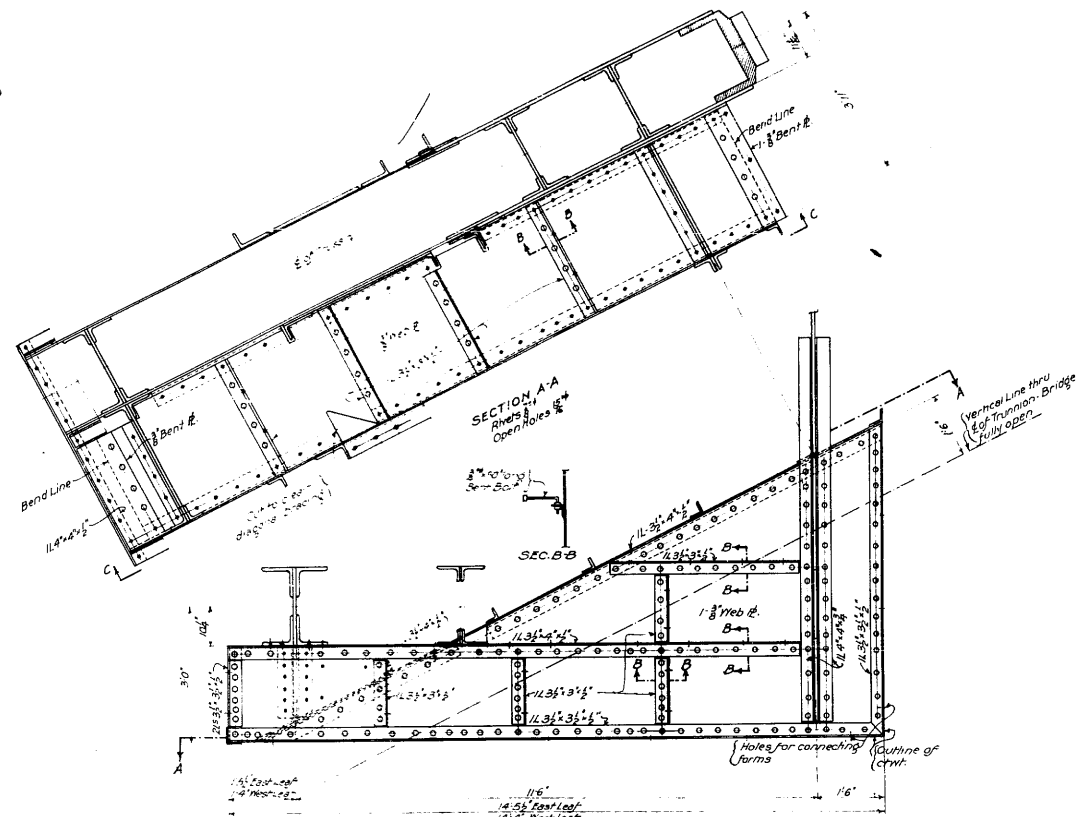
SCALE: 3/4" = 1'-0"
 DATE: JUNE 9, 1933

SHEET NO. 1343-33





TOP COUNTERWEIGHT BRACING A-B



General Notes.
 Rivets 1" unless noted.
 Open Holes 1/2" unless noted.
 Steel encased in concrete is not to be painted or oiled.
 Holes in gusset pbs. are for cover bars. See Sheet # 44 for reaming of holes. See specifications.
 Field connections to be reamed assembled.

COUNTERWEIGHT SUPPORTS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ENGINEERING CO. INC. CHICAGO, ILL.
 Approved: [Signature] Bridge Engineer
 Approved: [Signature] Chief Engineer

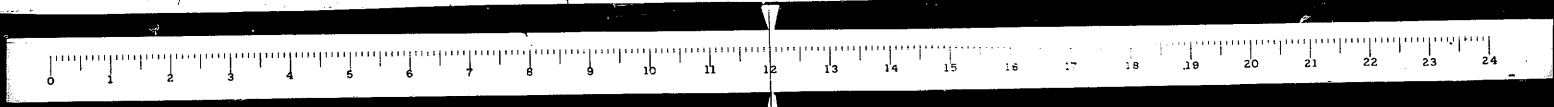
DESIGNED BY
 THE SCHERZER ENGINEERING CO.
 MONROCK BLOCK, CHICAGO, ILL.

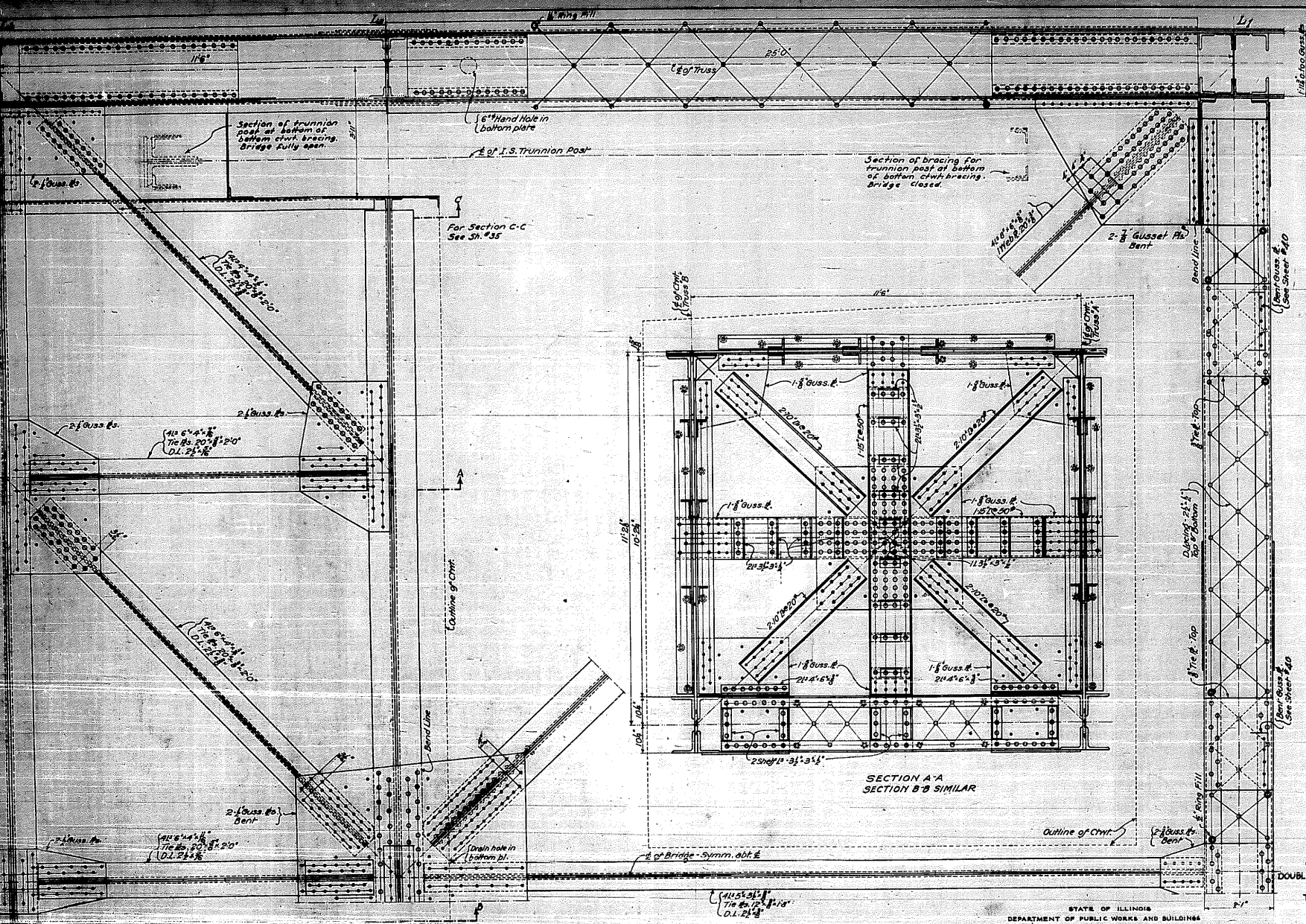
DRAWN BY: P.L.D.
 TRACED BY: J.E.
 CHECKED BY: A.B.
 REVISED: 3577 (1933)

DATE: APRIL 24, 1933

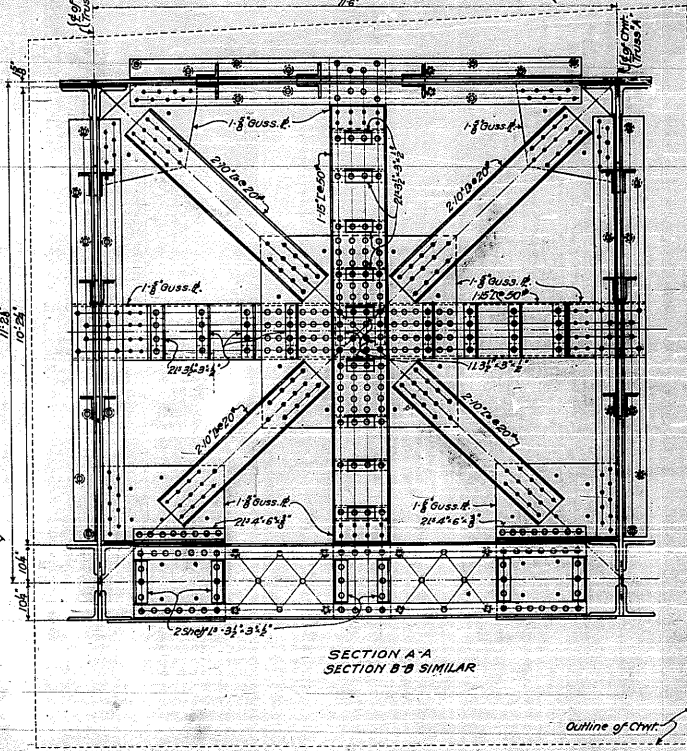
SHEET NO. 1343-35

Accession No. 3337





BOTTOM COUNTERWEIGHT BRACING



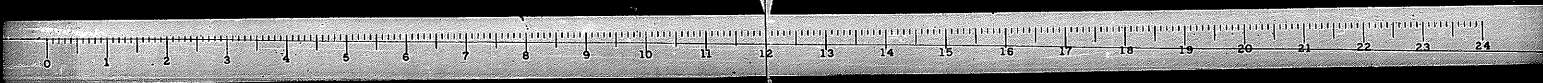
**SECTION A-A
SECTION B-B SIMILAR**

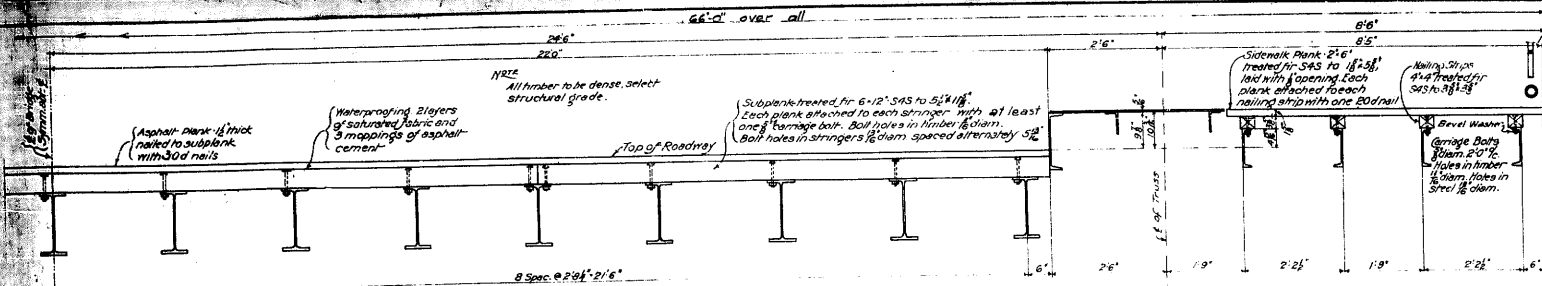
General Notes.
Rivets 3/4"
Open holes in steel
Steel encased in concrete is
not to be painted or coated
holes in gusset plates for
drill bars. See Sheet #44
For reaming of holes see
specifications.
Field connections to be
reamed assembled.

COUNTERWEIGHT SUPPORTS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOUET, ILL.

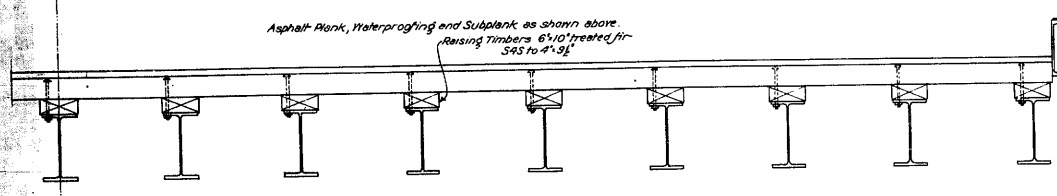
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
THE SCHERZER ROLLING LIFT BRIDGE CO.
Approval: *Sept. 13, 1933*
Joseph J. Carrol
Municipal Engineer
Approval: *Sept. 1933*
Clayton
Chief Engineer
Approval recommended
Approval: _____
Bridge Engineer
Approval: _____
Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MGMADNOCK BLOCK, CHICAGO, ILL.
SCALE: 1/4"
DRAWN BY P.L.S.
CHECKED BY J.A.
REVISED: SEPT. 8, 1933
SHEET NO. 1343-36
Accession No. 333

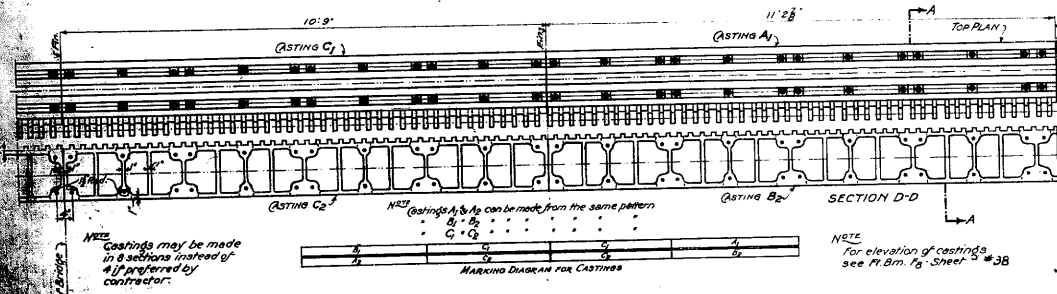




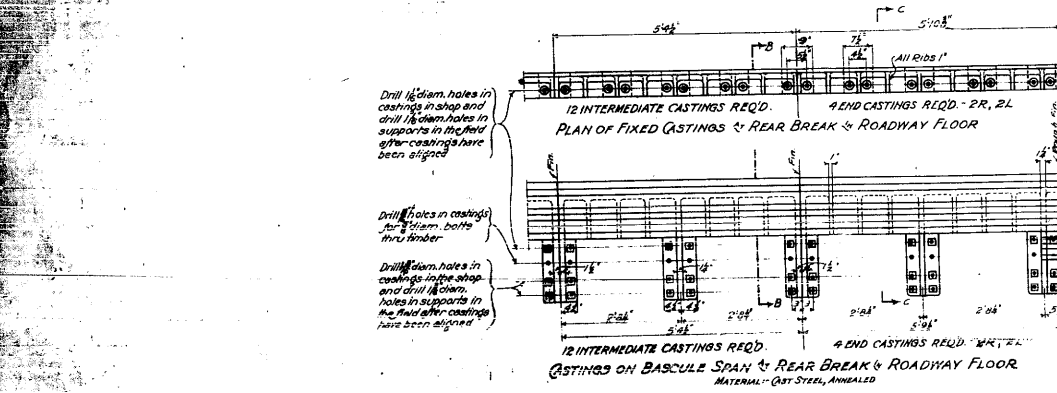
TYPICAL SECTION THRU BASCULE FLOOR BETWEEN FLOORBEAM F₂ 1/2 OF SPAN



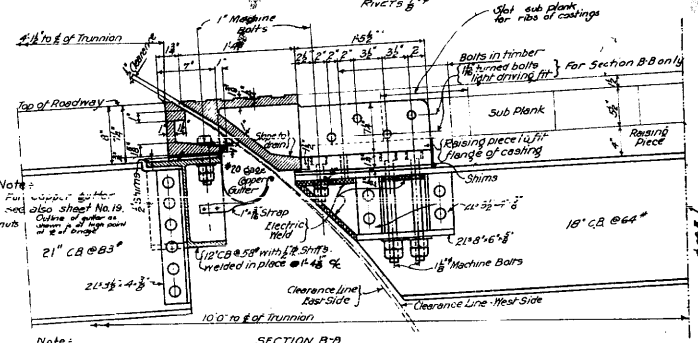
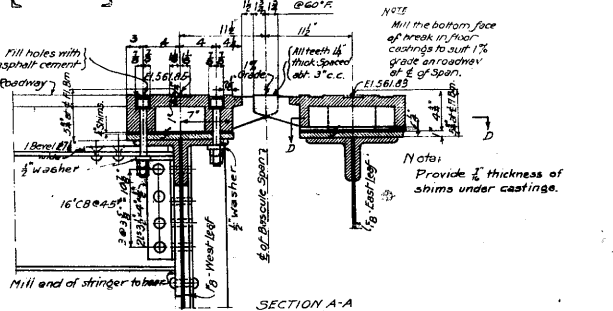
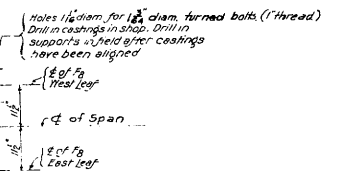
SECTION THRU BASCULE FLOOR BETWEEN REAR BREAK IN FLOOR 1/2 OF FLOORBEAM F₂



FLOOR CASTINGS 1/2 OF BASCULE SPAN MATERIAL - CAST STEEL, ANNEALED



CASTINGS ON BASCULE SPAN & REAR BREAK & ROADWAY FLOOR MATERIAL - CAST STEEL, ANNEALED



FLOOR DETAILS AND FLOOR CASTINGS DOUBLE LEAF TRUNNION BASCULE BRIDGE OVER THE ILLINOIS WATERWAY RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *[Signature]* 12-13-1933
 Chief Engineer

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approval recommended: _____
 Bridge Engineer

DESIGNED BY THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

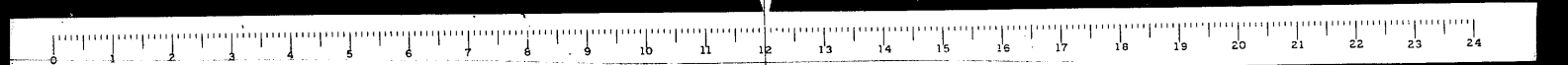
APPROVED: _____
 Chief Engineer

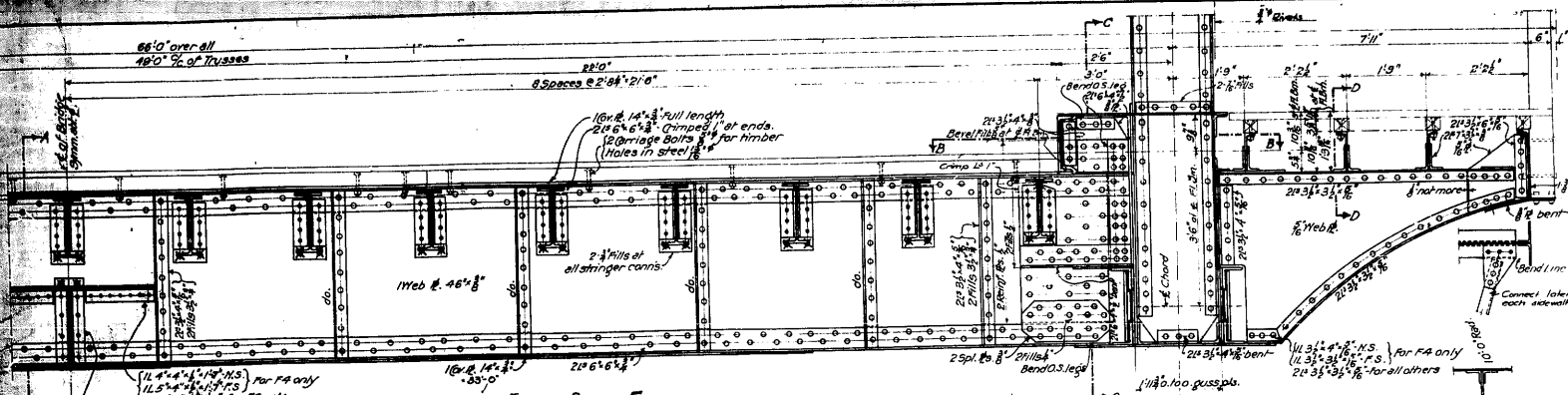
DRAWN BY ALES M.E.A.
 TRACED BY M.E.
 CHECKED BY M.E.
 REVISION A-4 05.1935

SCALE: 1/4" = 1'-0"
 DATE: APRIL 11, 1933

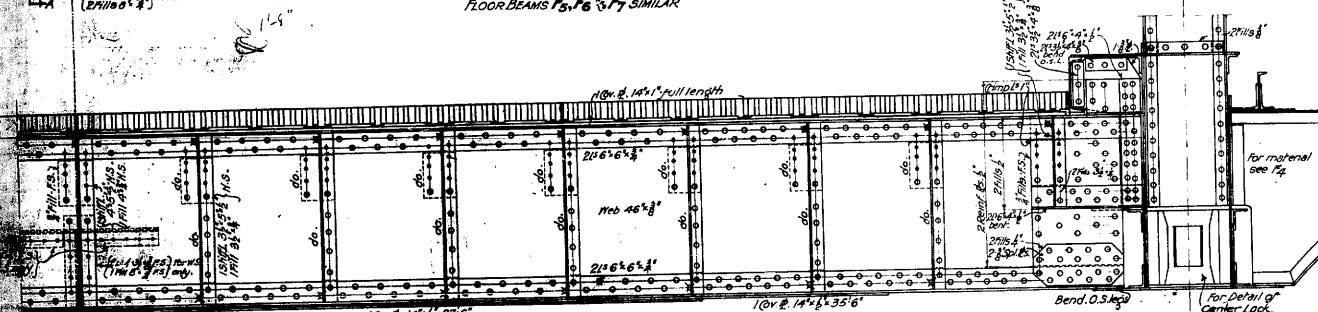
SHEET NO. 1343-37

Accession 7-3358

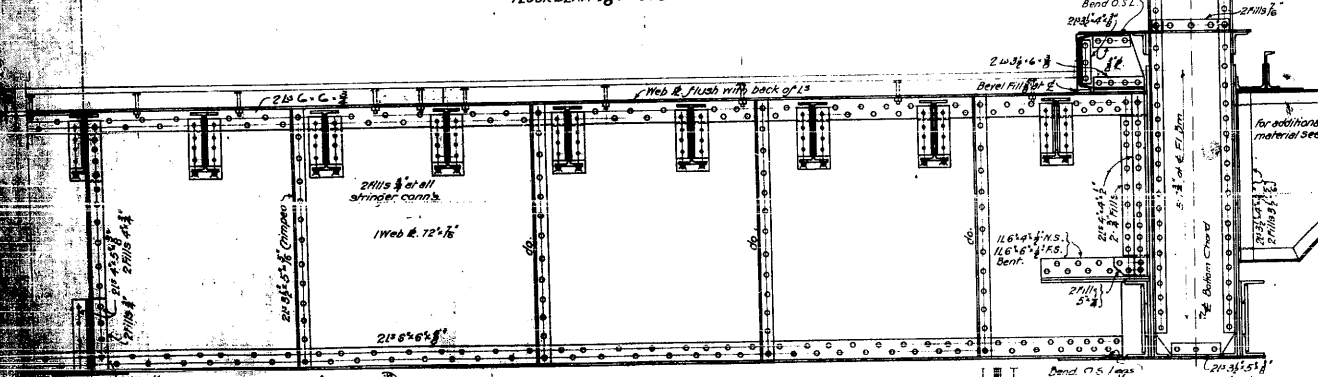




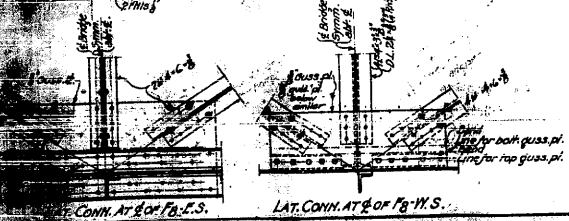
FLOOR BEAM F4
FLOOR BEAMS F5, F6 & F7 SIMILAR



FLOOR BEAM F8 - E.S.
FLOOR BEAM F9 - W.S. SIMILAR

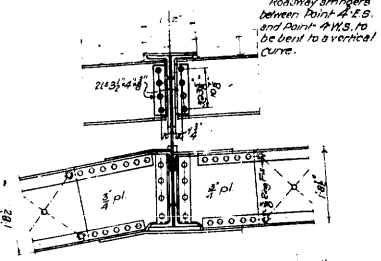


FLOOR BEAM F3

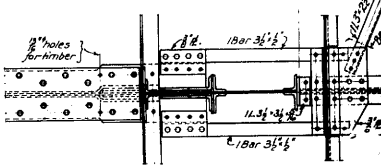


LAT. CONN. AT E.O. OF F7
CONN. AT E.O. OF F5 SIMILAR

Roadway on 5% Grade for E.S. Roadway on a vertical curve

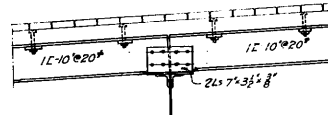


SECTION A-A

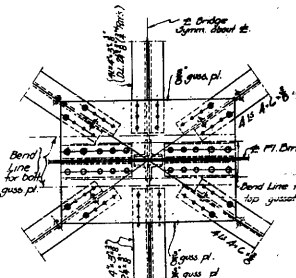


SECTION B-B

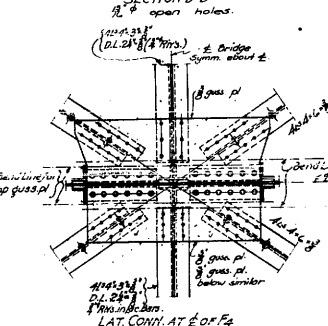
SECTION C-C



SECTION D-D



LAT. CONN. AT E.O. OF F6



LAT. CONN. AT E.O. OF F4

General Notes.
Rivets unless noted.
Conn. Notes unless noted.
Gusset plates for bottom laterals to be riveted in field where required.
Drill holes in lateral 2' or 4' Lg in the field after 'loaves' have been removed, except holes marked 'o'.

FLOOR BEAMS F5 & F6 - BASCULE SPAN
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
RUBY ST. JOLIET, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved Sept. 15, 1932
Approved Sept. 15, 1933

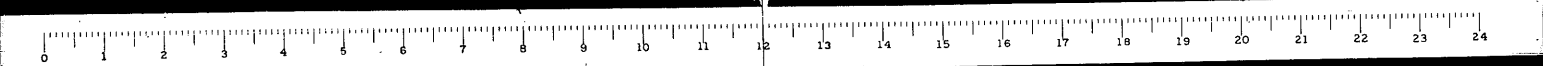
Approval recommended:
Bridge Engineer
Approved:
Chief Engineer

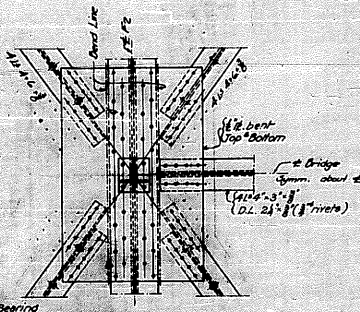
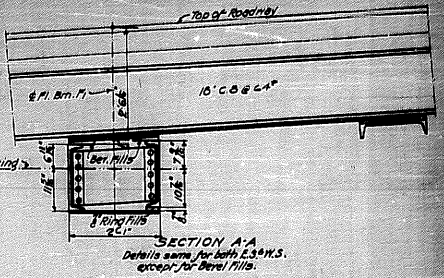
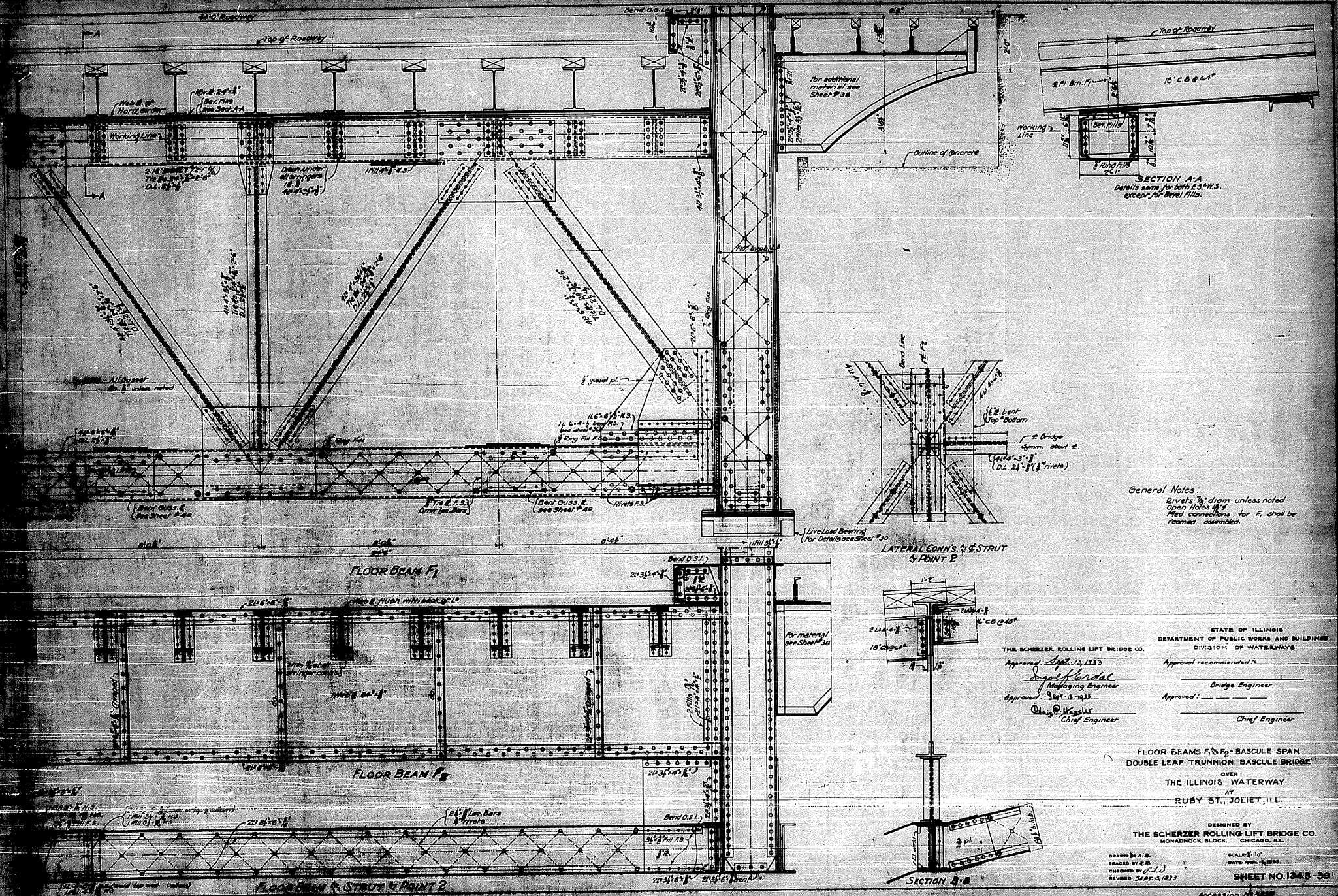
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAUCK BLOCK, CHICAGO, ILL.

DRAWN BY A.L.R.
CHECKED BY A.D.
REVISED SEP. 12, 1930.

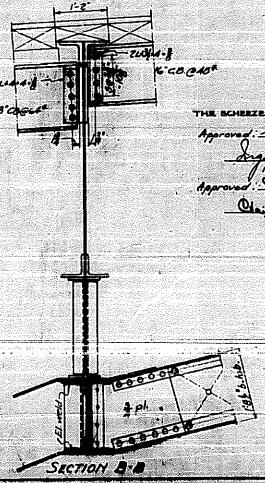
SCALE 1/8" = 1'-0"
DATE APR. 11, 1933

SHEET NO. 1348-38





General Notes:
Rivets 7/8" diam unless noted
Open holes 1/4" dia
Steel connections for F1 shall be reamed assembled.



THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: Sept. 12, 1933
Edgar Cordal
Manufacturing Engineer
Approved: Sept. 12, 1933
Chas. R. Wagler
Chief Engineer

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
Approval recommended: _____
Bridge Engineer
Approved: _____
Chief Engineer

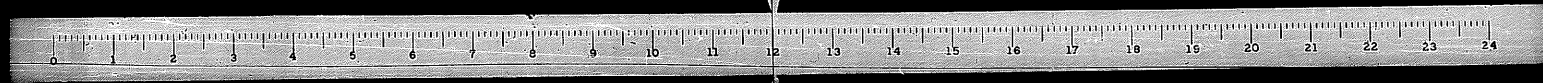
FLOOR BEAMS F1 & F2: BASCULE SPAN
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

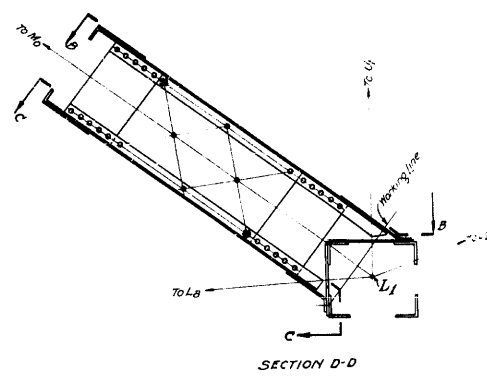
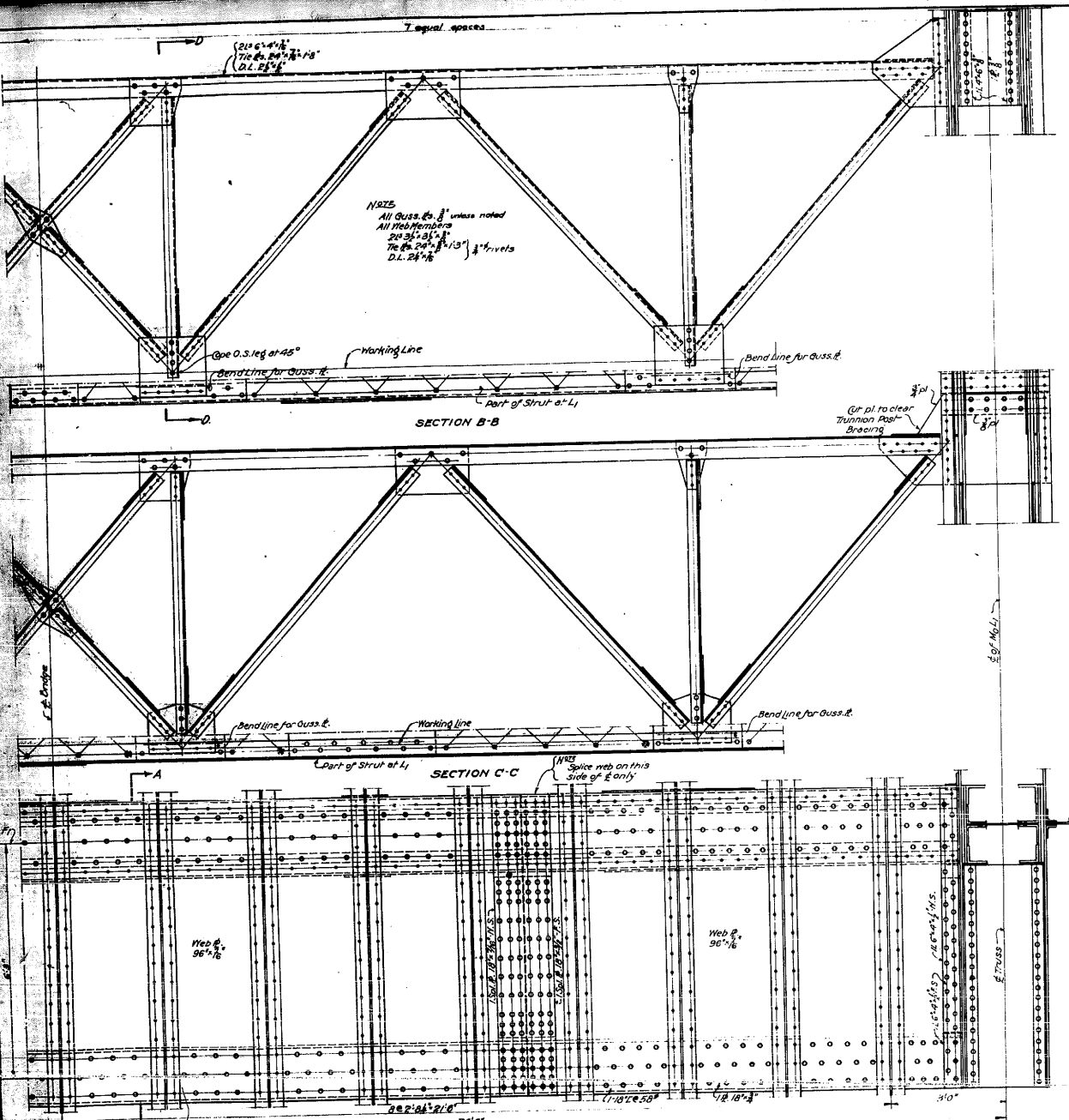
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A. B.
TRACED BY C. H.
CHECKED BY E. J. J.
REVISED SEPT. 5, 1933

SCALE: 1" = 10'
DATE: APR. 1933
SHEET NO. 1243-30

Accession # 1343





General Notes
Rivets & unless noted
Cover plates & unless noted
for meaning of notes see
specifications

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDING
AND
DIVISION OF WATERWAYS

Approved: *[Signature]*
Chief Engineer

Approved: *[Signature]*
Assistant Engineer

Approved: *[Signature]*
Assistant Engineer

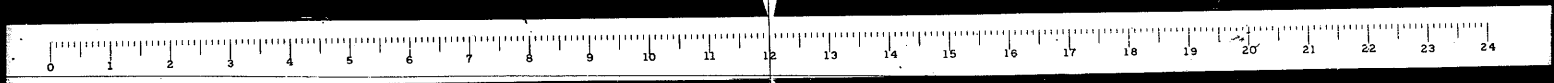
HORIZONTAL GIRDER
BRACING M₀L₁
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

DESIGNED BY
THE SCHAEFER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY A. S.
TRACED BY G. F.
CHECKED BY F. B.
REVISED AUG. 22, 1925

SCALE 1/4" = 1'-0"
DATE: APRIL 20, 1925
SHEET NO. 1343-40

Accession No. 3359



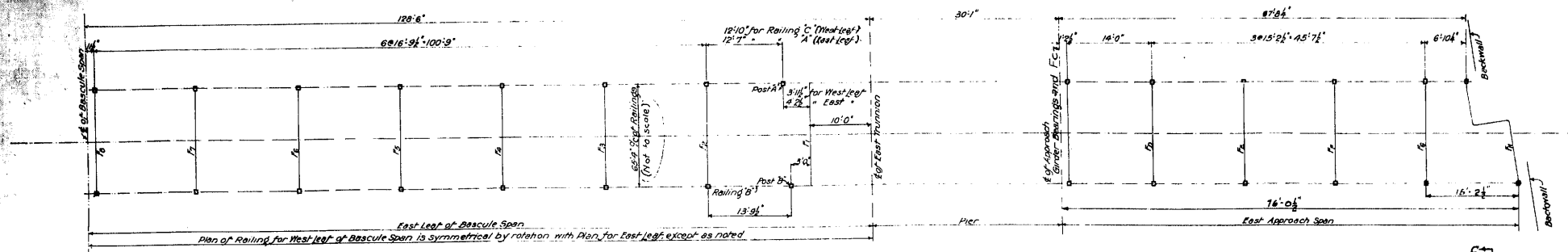
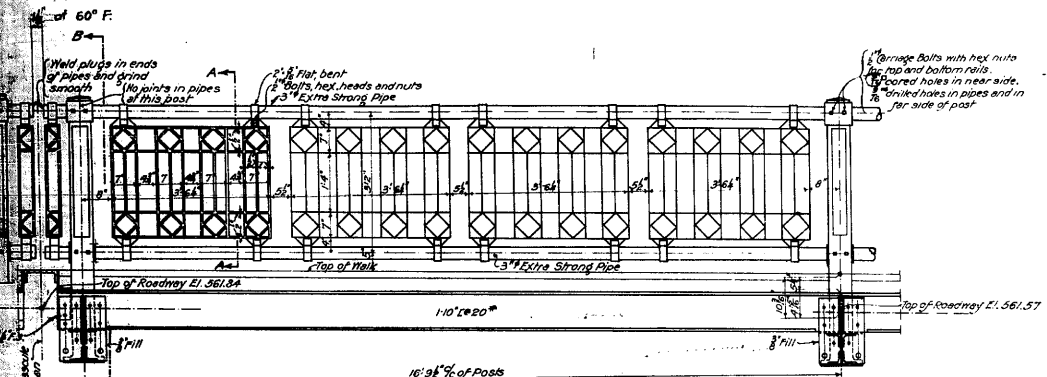
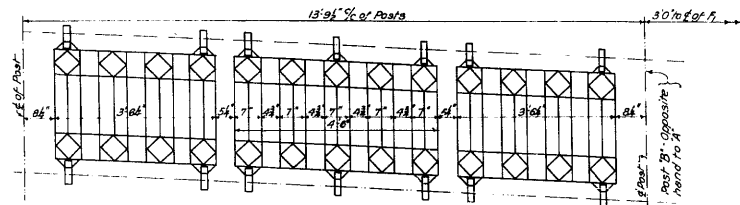


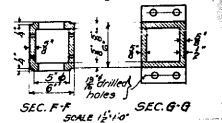
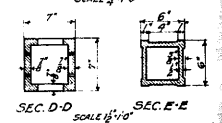
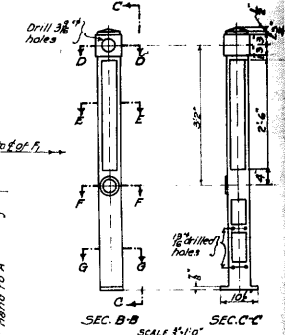
DIAGRAM OF BRIDGE RAILING
SCALE 1/4" = 1'-0"



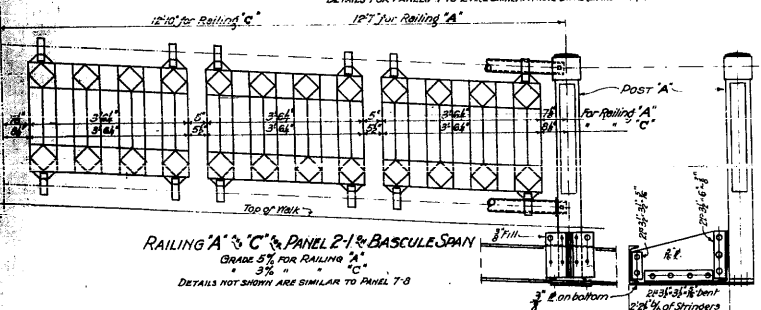
RAILING FOR PANEL 7-8 & EAST LEAF & BASCULE SPAN
DETAILS FOR PANELS 7 TO 8 ARE SIMILAR. NOTE DIFFERENCES IN GRADE



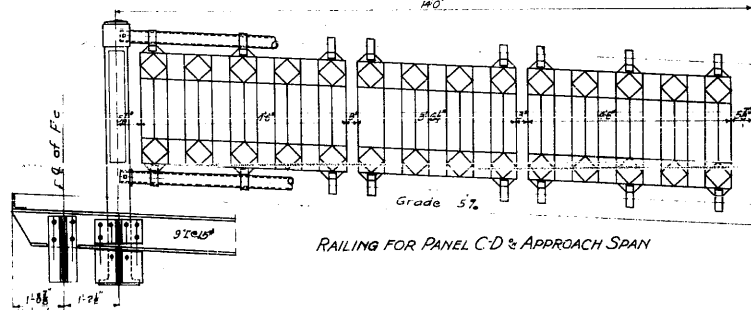
RAILING B' FOR PANEL 2-1 & BASCULE SPAN
GRADE 5% FOR EAST LEAF
3% WEST
DETAILS NOT SHOWN SIMILAR TO PANEL 7-8.



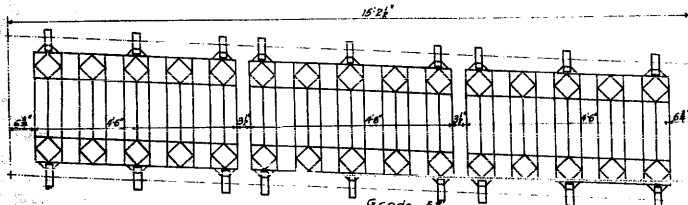
SEC. A-A



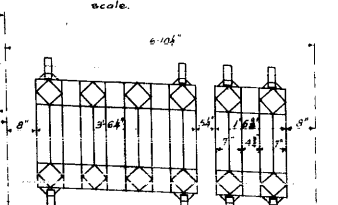
RAILING A' & C' & PANEL 2-1 & BASCULE SPAN
GRADE 5% FOR RAILING A'
3% WEST
DETAILS NOT SHOWN ARE SIMILAR TO PANEL 7-8



RAILING FOR PANEL C-D & APPROACH SPAN



RAILING FOR PANELS D-E, E-F, F-G & G-H & APPROACH SPAN



NORTH RAILING FOR PANEL G-H & APPROACH SPAN

General Notes
All posts shall be vertical.
All posts shall be made of cast iron.
Grilles shall be made of malleable iron.
Each pattern shall have a distinctive mark that will show on the casting.
All pipe shall be genuine malleable iron.
Evels 3/8"
Open holes 1/2" unless noted.

ORNAMENTAL RAILING
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: [Signature] 12, 1925
Managing Engineer
Approved: [Signature] 12, 1925
Chief Engineer

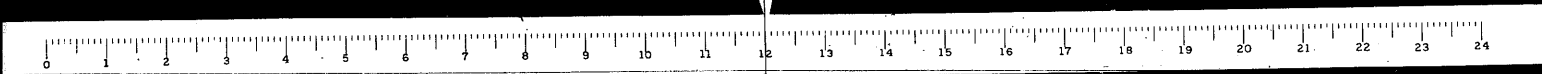
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
Approval recommended:
[Signature]
Bridge Engineer
Approved:
[Signature]
Chief Engineer

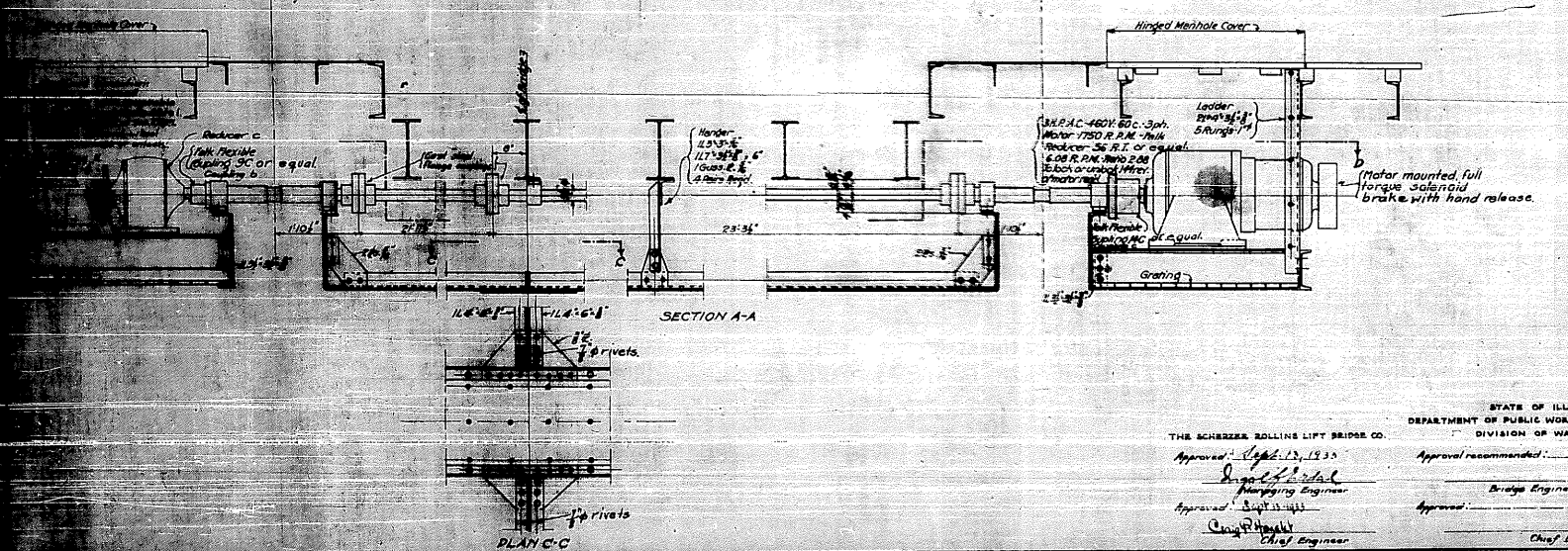
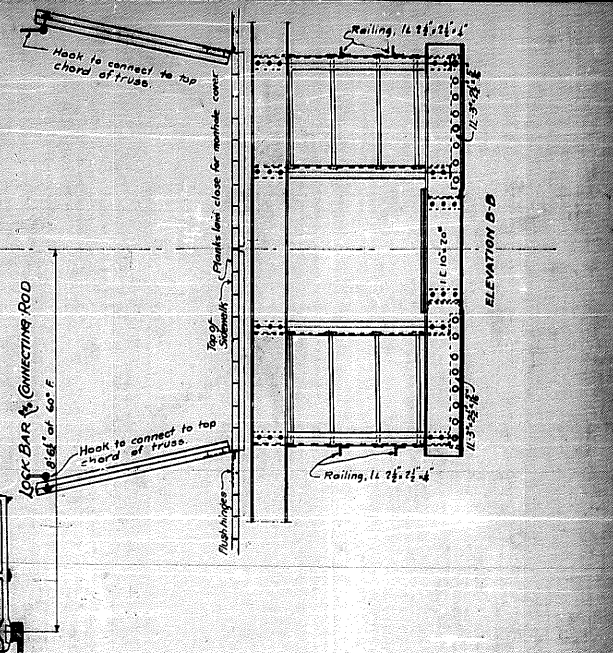
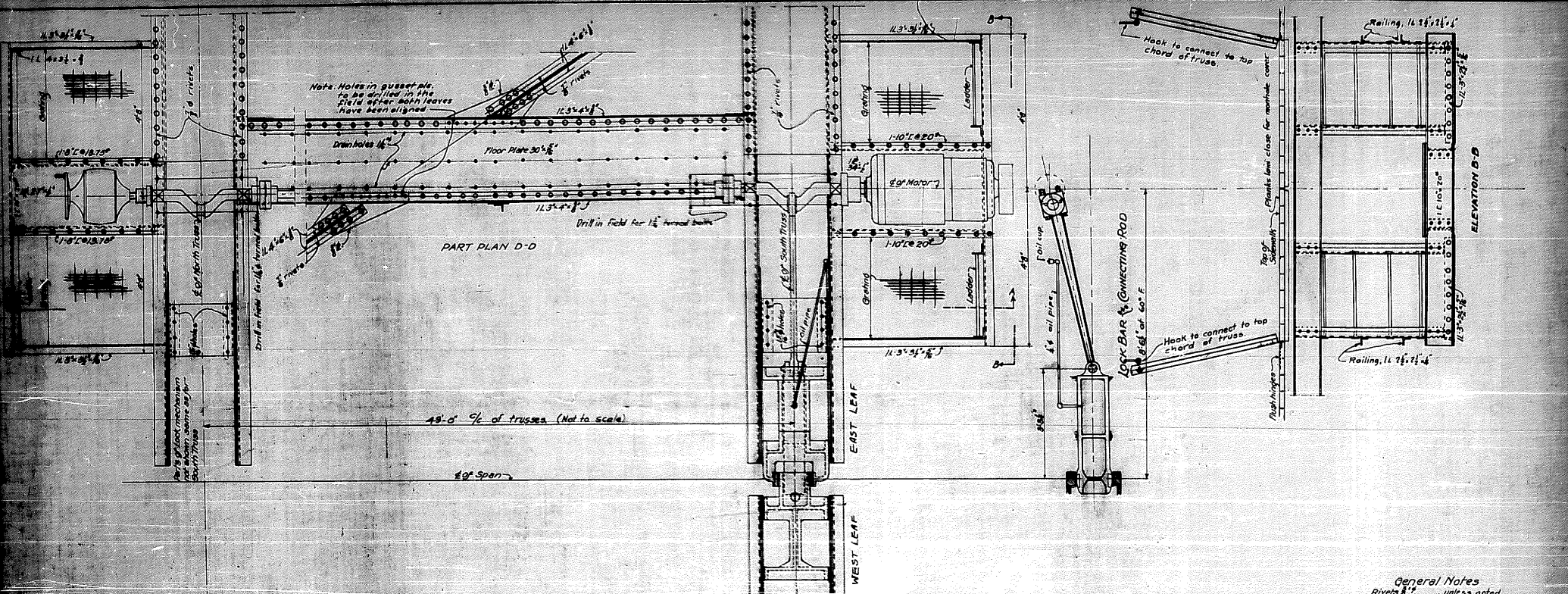
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAUCK BLOCK, CHICAGO, ILL.

SCALE 1/4" = 1'-0"
DRAWN BY E.A.F.
CHECKED BY F.E.B.
REVISIONS
REVISED Aug. 24, 1923

DATE: APRIL 16, 1925

SHEET NO. 1343-41
Accession No. 3348





General Notes
 Rivets 3/4"
 unless noted
 Open Holes 1/8"
 Metal covers, equal to the specified gear covers, shall be provided for the motor, drive, speed reducers, cranks and crank bearings.
 Gratings shall be equal to Tri-lock Rectangular Flooring, Class 1-0-A with bars 1 1/2" x 1 1/2".
 For general machinery notes see Sheet No. 46.

**CENTER LOCKS SUPPORTS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.**

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *April 12, 1935*
Joseph J. ...
 Approved: *April 12, 1935*
Clay R. ...
 Chief Engineer

Approval recommended:

 Bridge Engineer

Approved:

 Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

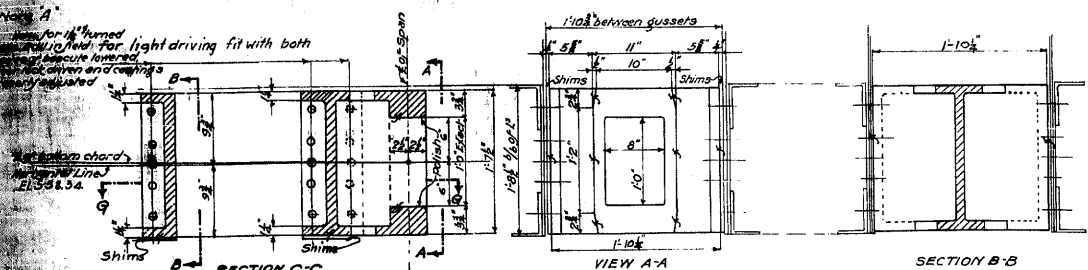
SCALE: 1/4" = 1'-0"
 DRAWN BY: E.A.H.
 TRACED BY: E.A.H.
 CHECKED BY: E.A.H.
 REVISED: Aug. 21, 1933

DATE: APRIL 21, 1935

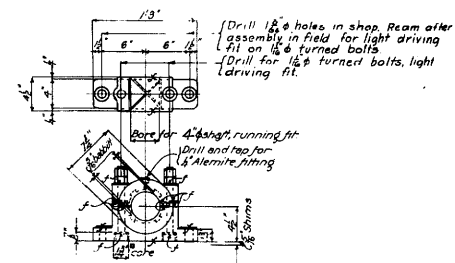
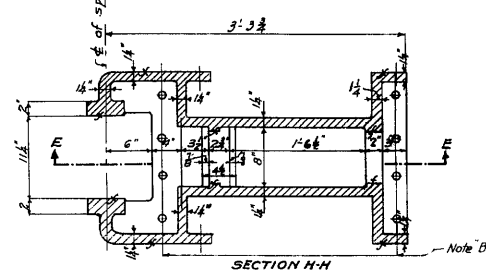
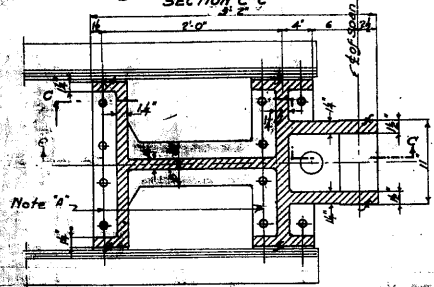
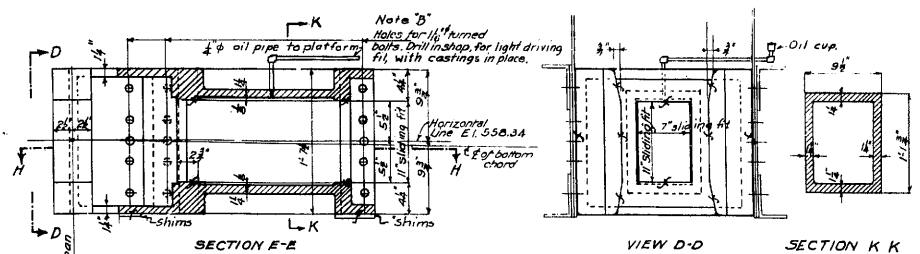
SHEET NO. 1343-42

Accession No. 1343





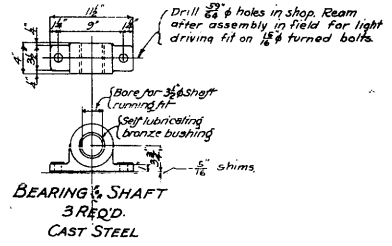
Note
Dimensions locating lock castings are given for a temperature of 60° F and should be varied according to the temperature of the time the castings are adjusted.



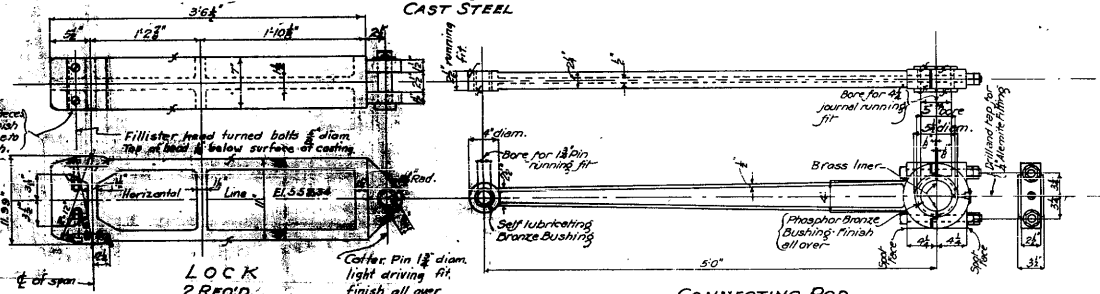
CASTING FOR WEST LEAF
2 REQ'D.
CAST STEEL

CASTING FOR EAST LEAF
2 REQ'D.
CAST STEEL

BEARING FOR CRANK
4 REQ'D.
CAST STEEL

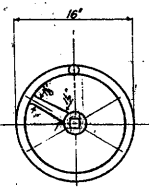


BEARING & SHAFT
3 REQ'D.
CAST STEEL



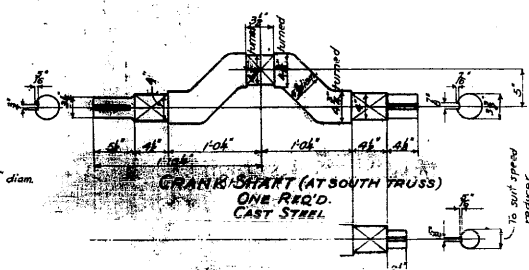
CONNECTING ROD
2 REQ'D.
CAST STEEL

Note:
For general machinery notes see Sheet No. 44.



HAND WHEEL
ONE REQ'D.
CAST STEEL

Make square hole for sliding fit on shaft of speed reducer so that hand wheel may be removed and stored when not in use.



CRANK SHAFT (AT NORTH TRUSS)
ONE REQ'D.
SAME AS AT SOUTH TRUSS EXCEPT AS SHOWN

CENTER LOCK CASTINGS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
APPROVED: 1/26/13, 1913
Approved: 1/26/13, 1913
Approved: 1/26/13, 1913

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

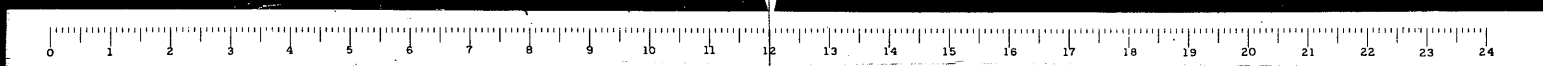
Approval recommended: _____
Bridge Engineer

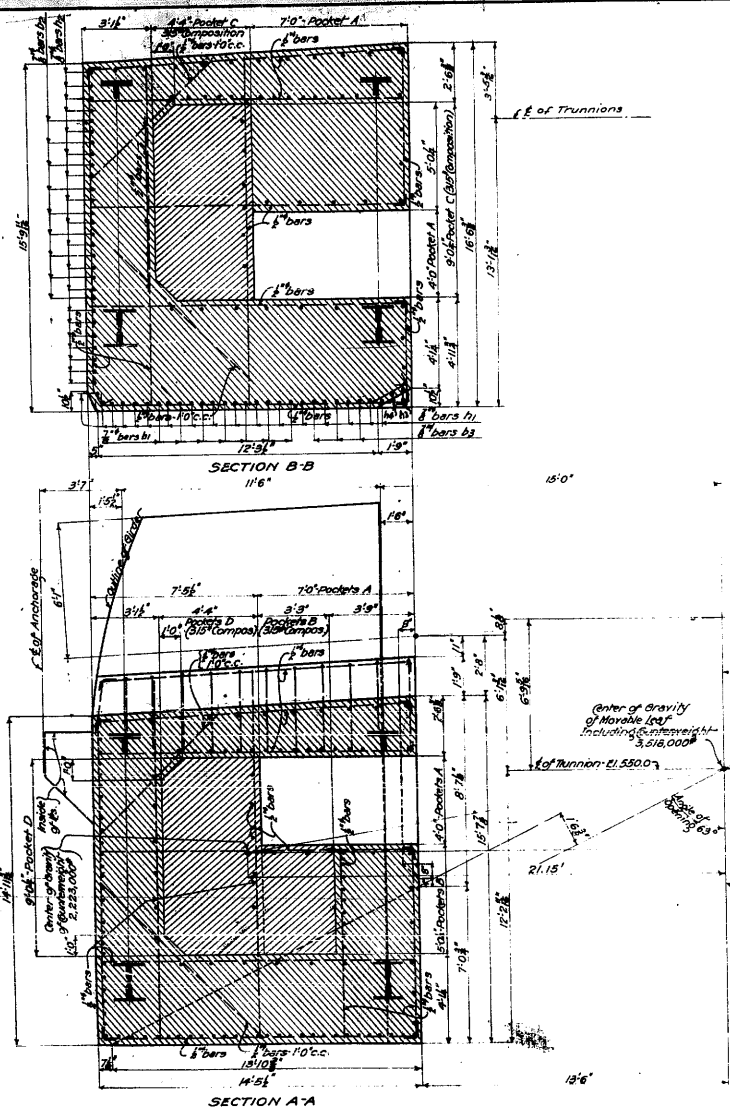
Approved: _____
Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONMOUTH, ILL.

SCALE: 1/2" = 1'-0"
DATE: APRIL 25, 1908
CHECKED BY: P. F. B.
REVISED: Aug 21, 1913

SHEET NO. 1343-43
Accession No. 334





Class X concrete

Top of Roadway 5% grade

36.3 (not to scale)

Center of Gravity of Movable Leaf Including Counterweight - 3,018,000*

Notes:

Approximate Quantities for Counterweight

Concrete @ 150' per cu. ft.	1,294,000*
Concrete Composition @ 315' per cu. ft. (in Pockets B, C & D between web plate)	844,000*
Big Iron Adjustment Blocks (in Pockets A)	85,000*
Total	2,223,000*

315' concrete composition may be made as follows:

Cement Grout @ 137' per cu. ft.	182,000*
Steel Punchings	662,000*
Total	844,000*

Big Iron Adjustment Blocks shall be so placed in Pockets A as to balance the leaf in all positions of opening.

Provide dove bars 3/4" x 2 1/2" through holes in gusset plate. See Sheets # 34, 35 & 36.

Splices in reinforcing bars shall have a lap of 40 diameters of the bars

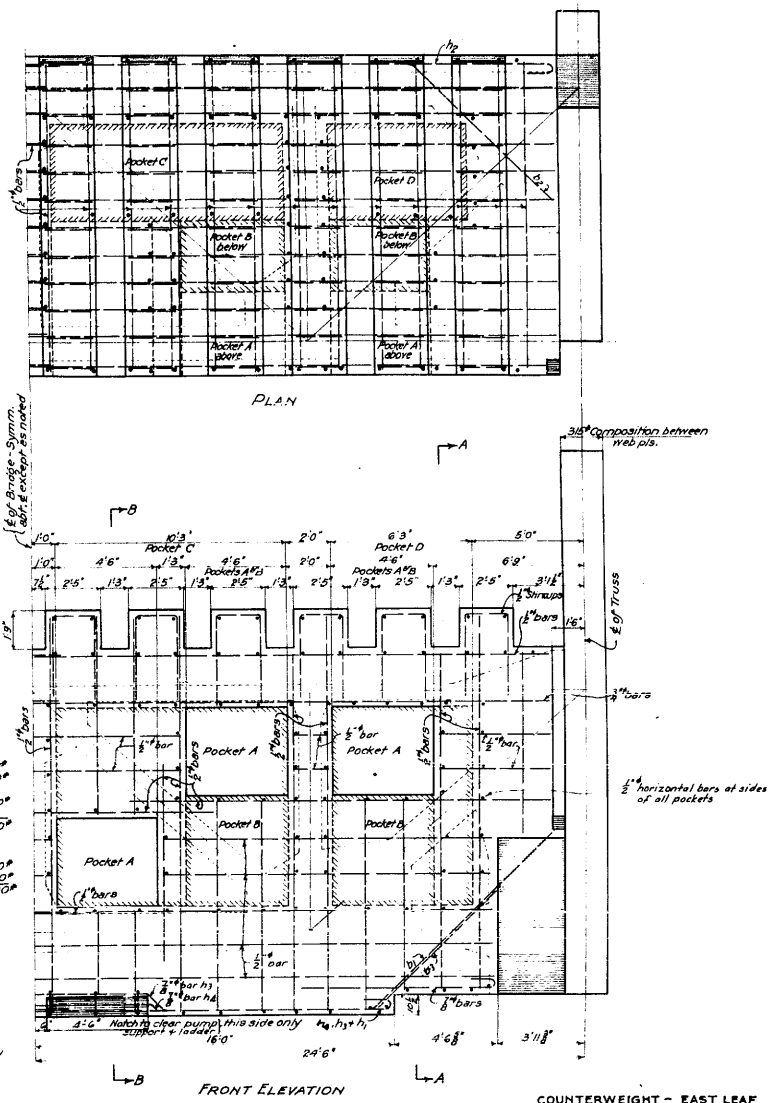
Assumed Unit Weights -

Timber 34' per cu. ft.

Asphalt Planking 7.5' per sq. ft. (including nails and water proofing)

Actual weight of materials used shall be determined before placing concrete and if found to vary materially from the assumed weights the counterweight shall be modified as required.

For general notes concerning reinforcing steel see in #3



COUNTERWEIGHT - EAST LEAF
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST., JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]* 10, 1933
[Signature] Managing Engineer
Approved: *[Signature]* Chief Engineer

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
Approved: *[Signature]*
Approved: *[Signature]* Bridge Engineer
Approved: *[Signature]* Chief Engineer

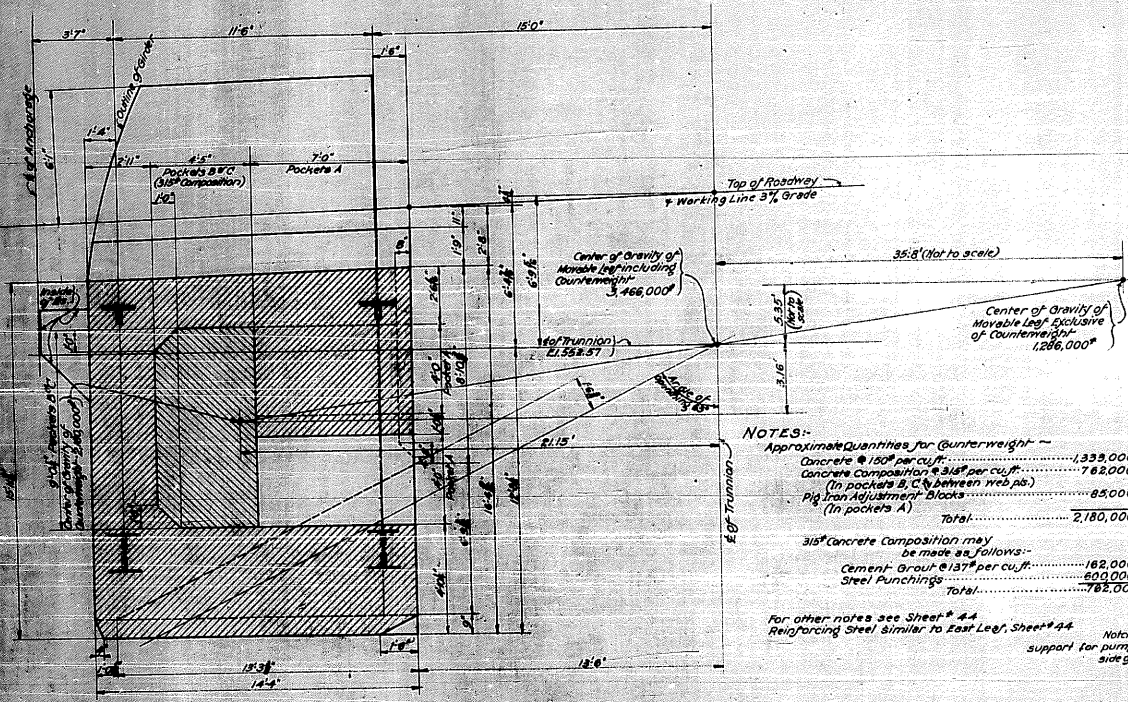
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

SCALE 1" = 10'
DATE APRIL 28, 1933

SHEET NO. 1343-44

Accession #13348



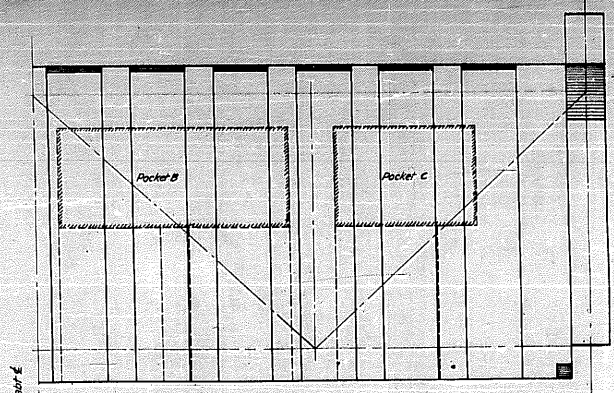


SECTION A-A

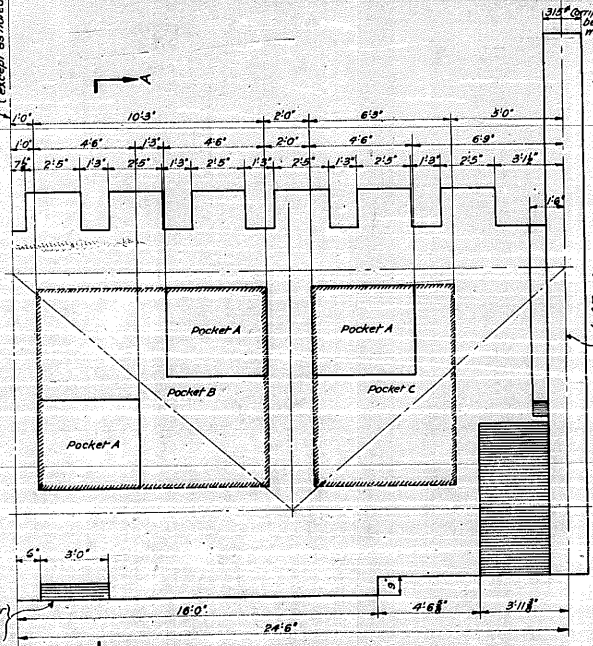
NOTES:-
 Approximate Quantities for Counterweight --
 Concrete @ 150# per cu. ft. 1,339,000#
 Concrete Composition @ 315# per cu. ft. 782,000#
 (In pockets B, C & between web lbs.)
 Pig Iron Adjustment Blocks 85,000#
 (In pockets A)
Total 2,180,000#

315° Concrete Composition may be made as follows:-
 Cement Grout @ 137# per cu. ft. 162,000#
 Steel Punchings 600,000#
Total 782,000#

For other notes see Sheet # 44
 Reinforcing Steel similar to East Leg, Sheet # 44



PLAN



FRONT ELEVATION

COUNTERWEIGHT - WEST LEAF
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST., JOLIET, ILL.

STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

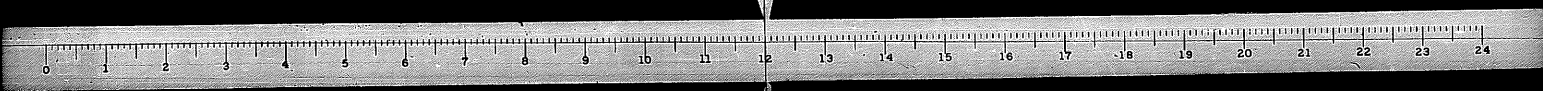
THE SCHERZER ROLLING LIFT BRIDGE CO.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

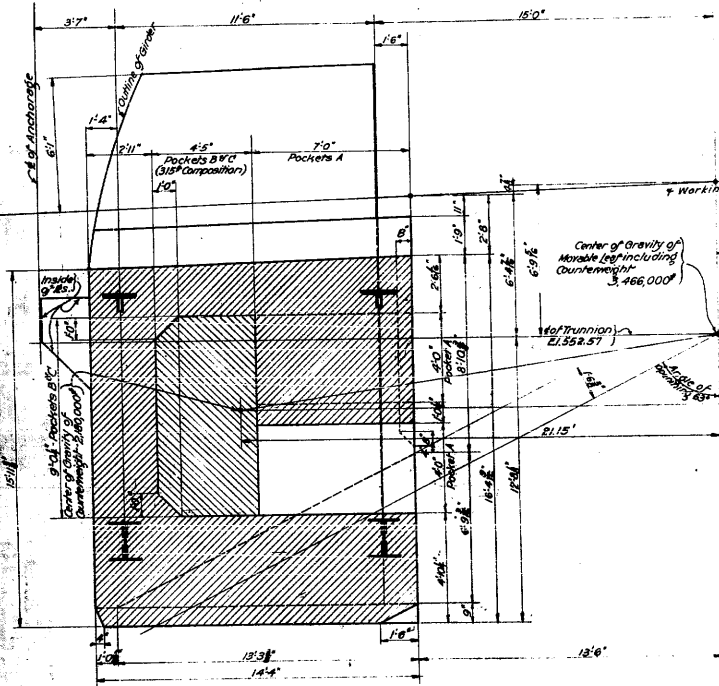
DRAWN BY P.L.D.
 TRACED BY G.P.
 CHECKED BY H.
 REVISIONS SEP 11, 1933

SCALE 1" = 10'
 DATE APR 18, 1933

SHEET NO. 1343-43



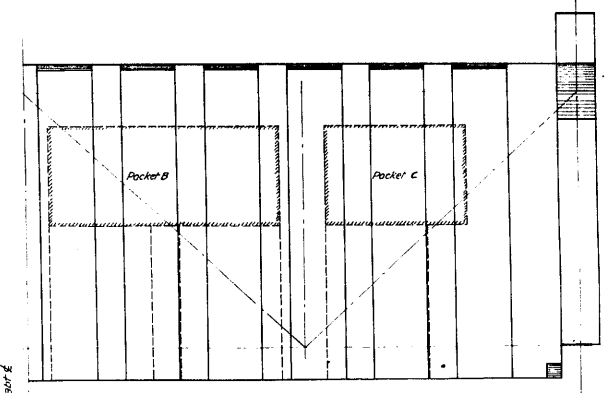
Accession N° 334



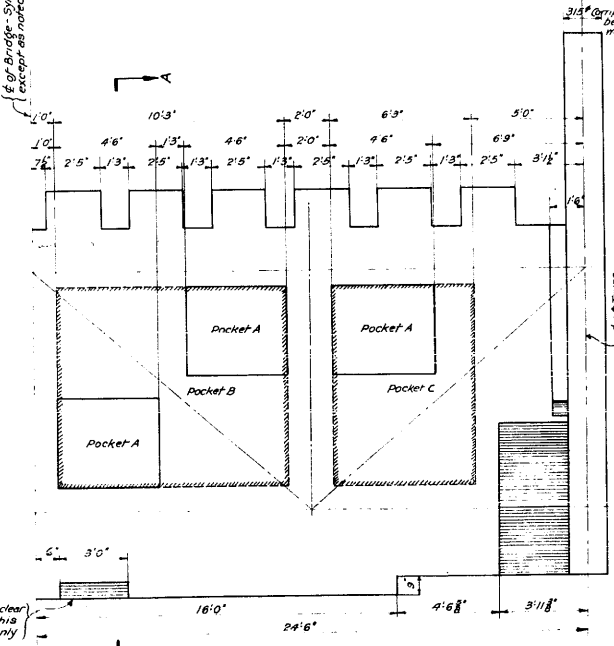
SECTION A-A

NOTES:-
 Approximate Quantities for Counterweight:-
 Concrete @ 150 per cu ft. 1,339,000#
 Concrete Composition # 315 per cu ft. 762,000#
 (In pockets B, C & between web pls.)
 Pig Iron Adjustment Blocks 85,000#
 (In pockets A) Total 2,186,000#
 315 Concrete Composition may be made as follows:-
 Cement Grout @ 137 per cu ft. 162,000#
 Steel Punchings 60,000#
 Total 222,000#

For other notes see Sheet # 44
 Reinforcing Steel Similar to East Leaf, Sheet # 44
 Not to clear support for pump this side of Early



PLAN



FRONT ELEVATION

COUNTERWEIGHT - WEST LEAF
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST, JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
 STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

Approved: *[Signature]*
 Designing Engineer
 Approved: *[Signature]*
 Chief Engineer

Approved: *[Signature]*
 Bridge Engineer
 Approved: *[Signature]*
 Chief Engineer

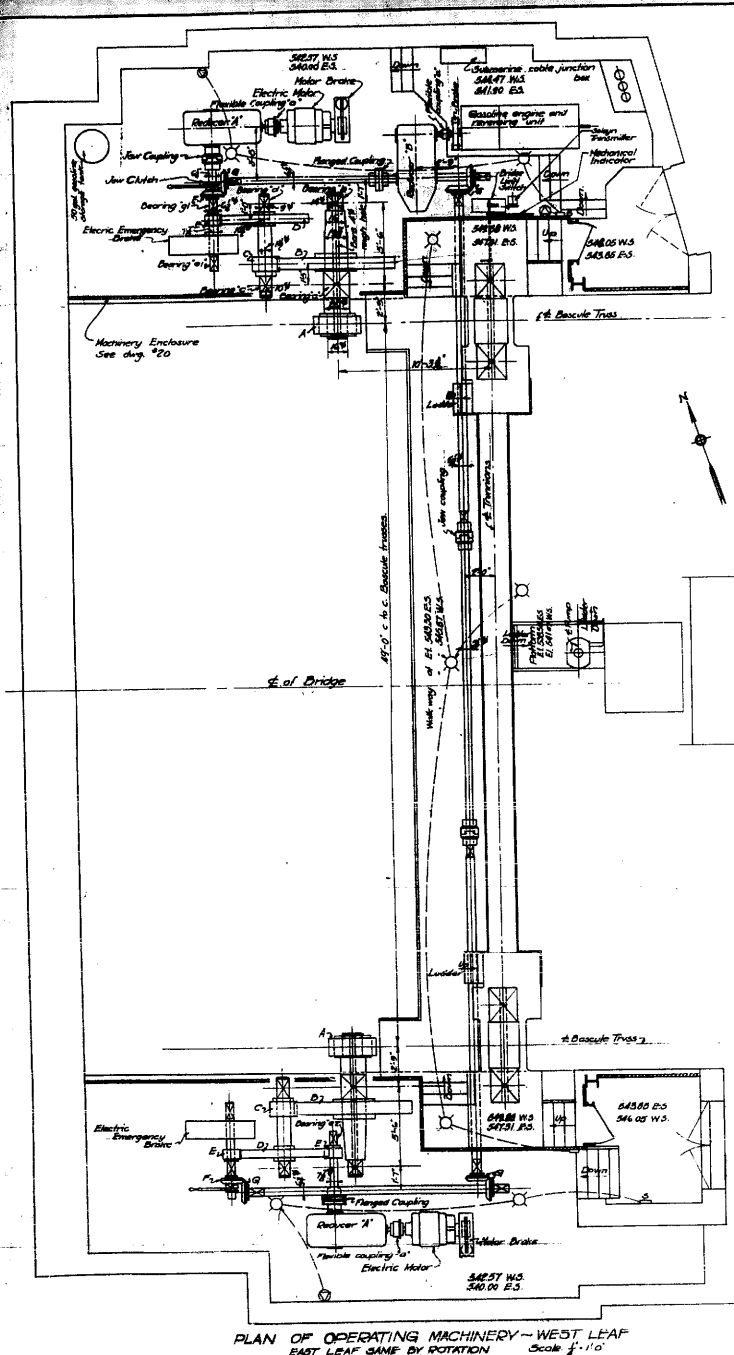
DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DRAWN BY P. L. D.
 TRACED BY E. E.
 CHECKED BY T.
 REVISION SEP 11, 1933

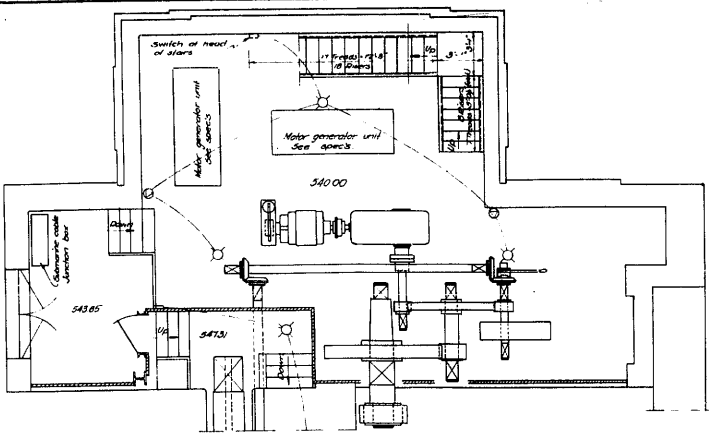
SCALE 1" = 10'
 DATE APRIL 1915
 SHEET NO. 1345-45



Accession 172334



PLAN OF OPERATING MACHINERY - WEST LEAF
EAST LEAF SAME BY ROTATION
Scale 1/4" = 1'-0"



PLAN OF MACHINERY SHOWING LOCATION OF MOTOR GENERATOR UNITS
NORTH SIDE OF EAST LEAF
Scale 1/4" = 1'-0"

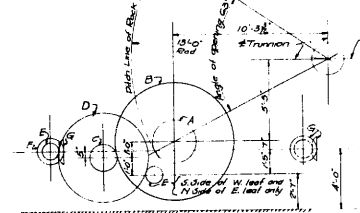


DIAGRAM OF GEARS

TABLE OF GEARS - PER LEAF

GEAR	NUMBER	TEETH	PITCH	PITCH DIA	FACE	TEETH	KEYS PER GEAR
RACK	Z	29	72 P	26'-0"	1'-3"	Special 20° Involute (see detail on 140)	
A	Z	15	72 P	33.62"	1'-2"	do	2 - 2" x 2 1/2"
B	Z	25	48 P	34.51"	1'-2"	do	2 - 2" x 2 1/2"
C	Z	15	48 P	21.67"	11"	do	2 - 1 1/2" x 1 1/2"
D	Z	75	36 P	71.62"	7"	Standard 20° Involute stub	2 - 1 1/2" x 1 1/2"
E	Z	15	36 P	43.57"	7"	do	2 - 1 1/2" x 1 1/2"
F	Z	22	100 P	22"	4"	1 1/2" standard	Loose on shaft
G	Z	22	100 P	22"	4"	do	2 - 1 1/2" x 1 1/2"

* Bevel gears

EQUIPMENT

Motor Generator Units
75 HP A.C. Motor 3PH. G.O.C. 400V. and generator Q.E.Co or equal.

Operating Motors
50 HP @ 850 RPM. D.C. Motor 230V. Q.E.Co. Frame # CO. 1530 or equal.
Torque requirements 650' for 2 min. - 1000' momentarily.

Motor Brake:
GE Motor mounted Thruster Brake # C.D. 95L-467 or equal.
Retarding torque 375'. Provide interlocked hand release.

Electric Emergency Brake:
GE Motor mounted Thruster Brake # C.D. 95L-467 or equal.
Holding torque 6000'. Provide interlocked hand release.

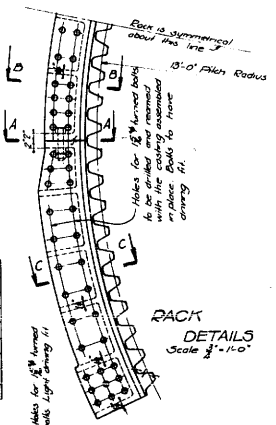
Reducer A:
2 1/2" x 10 DA right angle speed reducer or approved equal.
Reduction ratio 24.4 to 1. Speed reducer to be assembled with motor on C.I. or galvanized steel base plates. Price of same to be included in lump sum price for street reducers. But do to be of minimum width and length.

Reducer B:
2 1/2" x 11 DA parallel shaft speed reducer with equalizer or approved equal.
Reduction ratio 20 to 1.

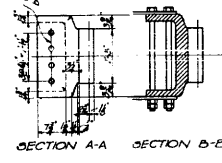
Goodings engine, reversing unit with brake
3 1/2" x 11 1/2" @ 1100 RPM gasoline engine with reversing unit having 7 to 5 reduction ratio and adjusted brake of 250' holding torque. Hardware - Nostrand Co. unit # 430.4 or approved equal. This unit shall be furnished complete with all accessories.

Flexible coupling "a"
Asd #5 or equal.

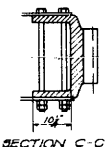
Note: Manufacturers of speed reducers shall furnish complete details of the speed reducers for approval.
Complete details of the gasoline engine, reversing unit and attached brakes shall be furnished.



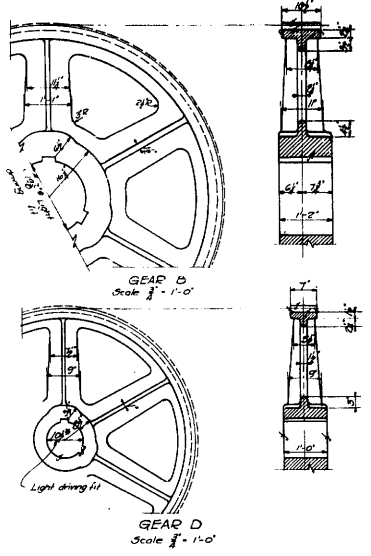
RACK DETAILS
Scale 1/4" = 1'-0"



SECTION A-A SECTION B-B



SECTION C-C



GENERAL NOTES:
Pinion A may be made of cast steel all other pinions shall be forged.
All castings and forgings shall be made of steel and shall be annealed.
All gear, pinions and racks shall have machine cut teeth and pitch lines plainly marked on both sides.
All shafts over 3" shall be forged. Others may be cold rolled.
Gib head tapered keys shall be used where possible.
Thickness of keys given are for small end shafts of tapered shafts shall be larger than the threaded ends and shall have lock nuts unless otherwise noted.
All bearings shall be provided with Alameda-Dal Magul fittings or equal and grooved for lubrication except where self lubricating bearings are specified.
Babbitt bearings shall have slotted cores.
All couplings are to be furnished by machinery contractor.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: [Signature] 11/13/33
[Signature] 11/13/33
Approved: [Signature] 11/13/33
Chief Engineer

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
Approval recommended: [Signature]
Bridge Engineer
Approved: [Signature]
Chief Engineer

OPERATING MACHINERY
DOUBLE LEAF TRUNNION BAScule BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILLINOIS

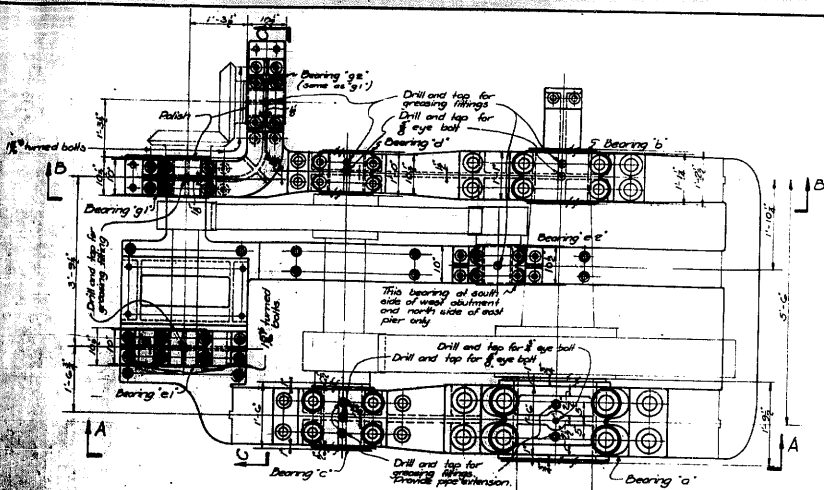
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
WORNADOCK BLOCK, CHICAGO, ILL.

DRAWN BY ALMS
CHECKED BY LE
REVISIONS: GEAR 11, 1933
NOV. 2, 1933

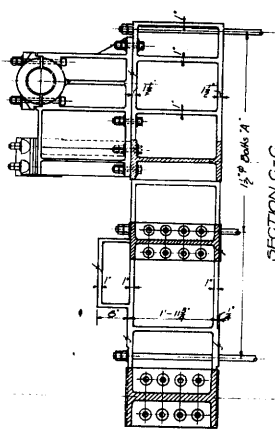
SCALE: AS NOTED
DATE: FEB. 21, 1933

SHEET NO. 1343 - 4C
Accession No. 3343

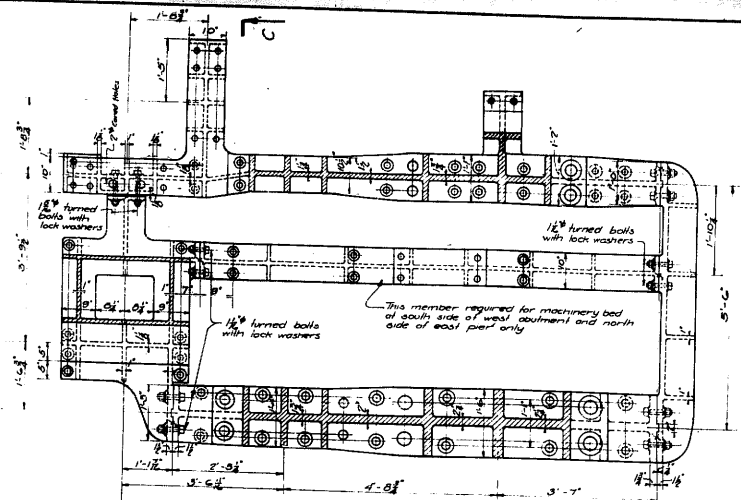




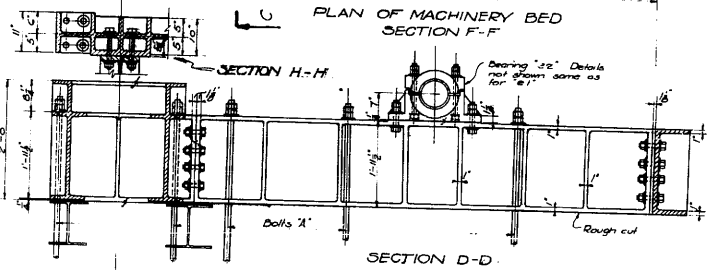
PLAN OF BEARINGS



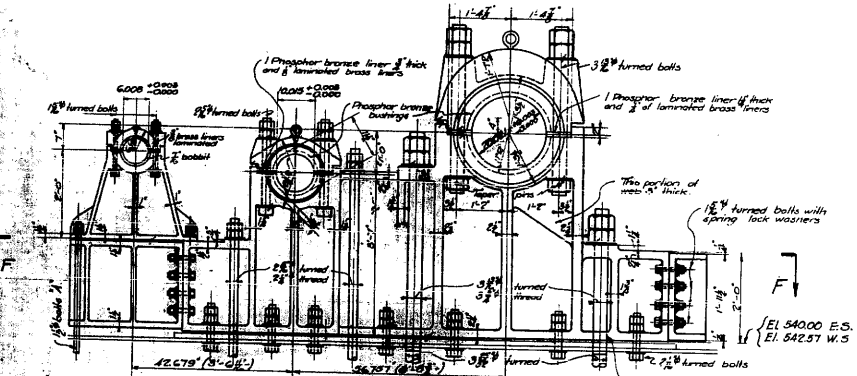
SECTION C-C



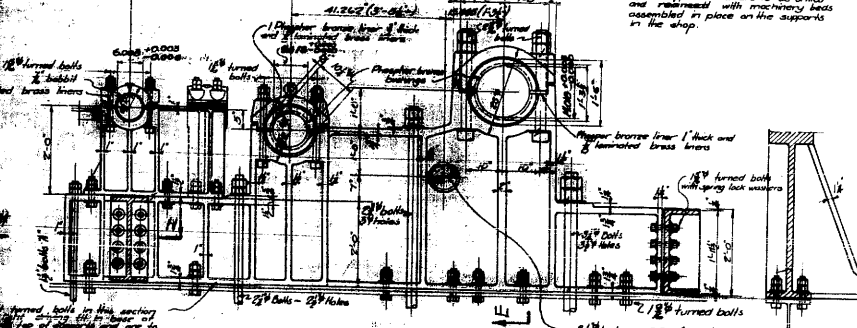
PLAN OF MACHINERY BED SECTION F-F



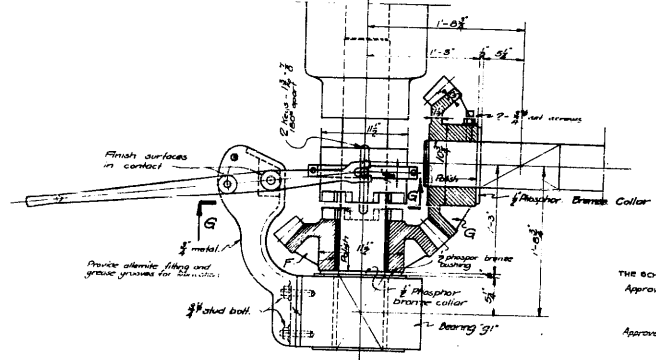
SECTION D-D



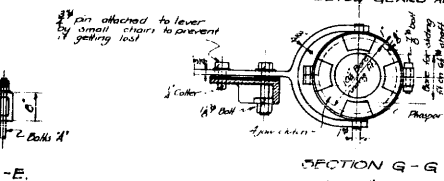
VIEW A-A



SECTION B-B



DETAIL OF BEVEL GEARS AND CLUTCH



SECTION G-G

GENERAL NOTES:
 Bolts marked 'A' are to be 1/2" C-C long with 2 hex nuts each of top and 2 3/4" nuts each of bottom. Drill 1/8" holes for bolts.
 Bolts attaching bearing caps to bases shall have a push fit in the caps and a light driving fit in the bases.
 Bolts not covered by above notes shall have light driving fit unless noted otherwise.

THE SCHERZER ROLLING LIFT DRESS CO. DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approved: Sept 12, 1933 Chief Engineer
 Approved: Sept 12, 1933 Chief Engineer

MACHINERY DETAILS
DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET, ILL.

DESIGNED BY
 THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONMOUTH BLOCK, CHICAGO, ILL.

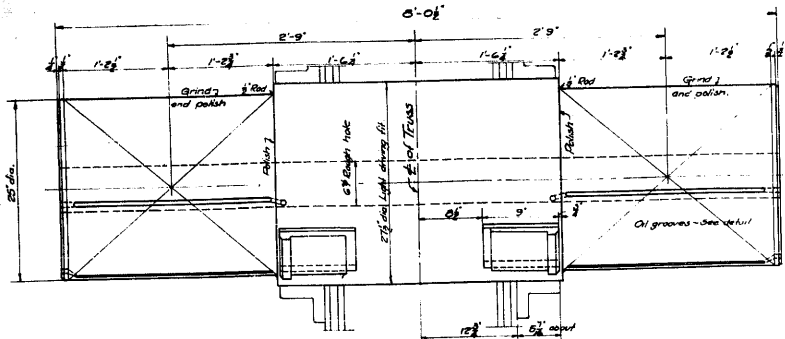
DRAWN BY ALBS
 TRACED BY A. D.
 CHECKED BY T. C.
 REVISION SEPT 11, 1933.

SCALE: 1/8" = 1'-0"
 DATE: FEB. 20, 1933.

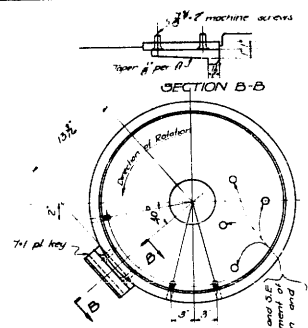
SHEET NO. 1343-47

Accession No. 3546

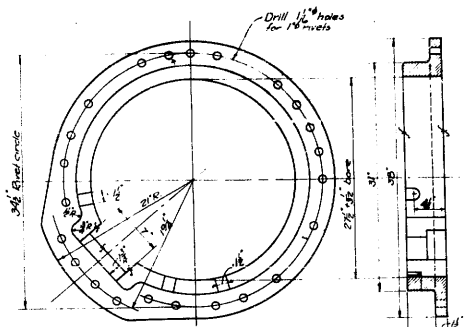




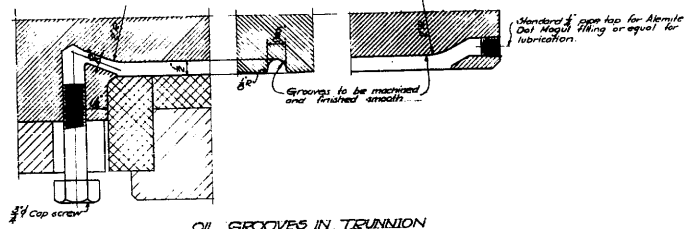
TRUNNION
CARBON STEEL FORGING - FINISH ALL OVER
Scale 1/2" = 1'-0"



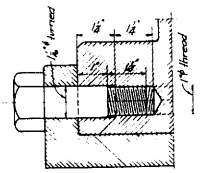
SECTION B-B



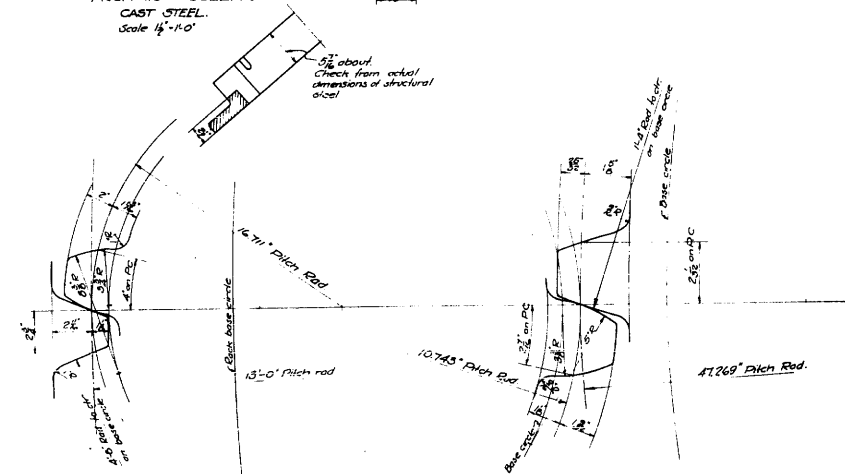
TRUNNION COLLAR
CAST STEEL
Scale 1/2" = 1'-0"



OIL GROOVES IN TRUNNION
Scale 1" = 1'-0"

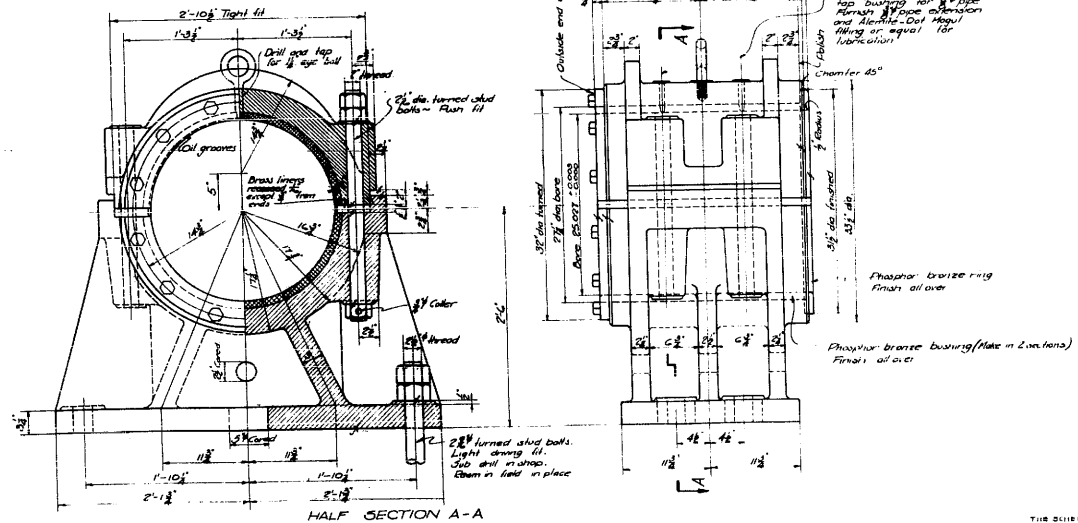


METHOD OF FASTENING
BUSHING TO BEARING



PROFILES OF RACK AND PINION 'A' TEETH
20° INVOLUTE TEETH
Scale 3" = 1'-0"

PROFILES OF GEAR 'B' AND PINION 'C' TEETH
20° INVOLUTE TEETH
Scale 6" = 1'-0"

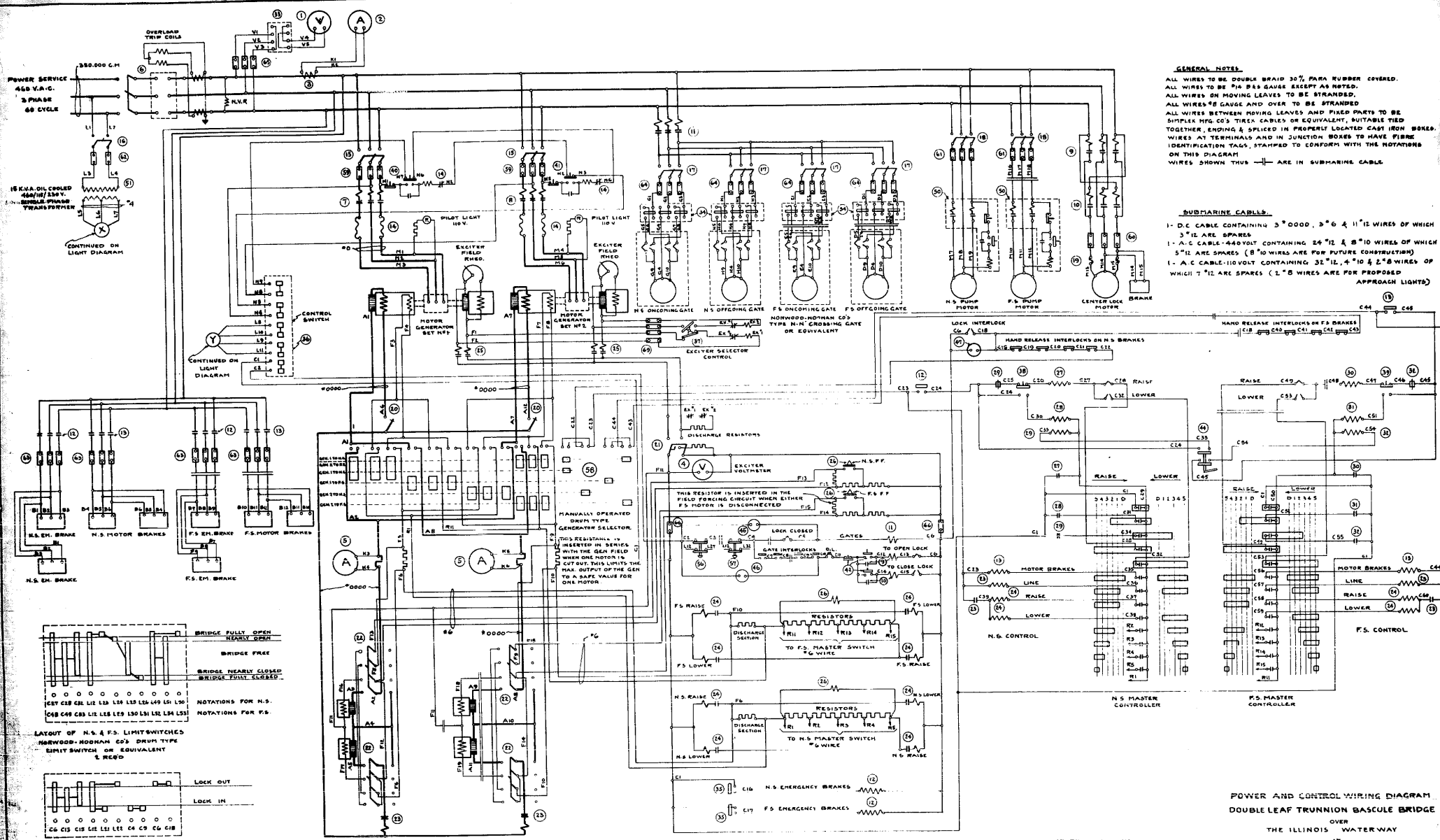


TRUNNION BEARINGS
CARBON STEEL CASTINGS
Scale 1/2" = 1'-0"

THE QUINCY ROLLING LIFT BRIDGE CO.
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.



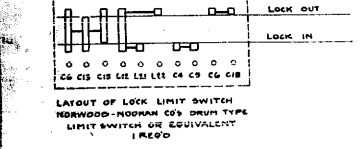
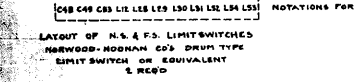
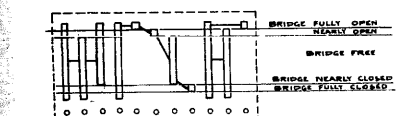
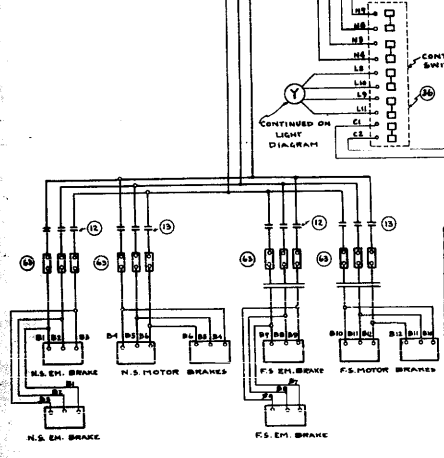
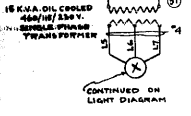


GENERAL NOTES

ALL WIRES TO BE DOUBLE BRAID 30% PARA RUBBER COVERED.
 ALL WIRES TO BE #14 B185 GAUGE EXCEPT AS NOTED.
 ALL WIRES ON MOVING LEAVES TO BE STRANDED.
 ALL WIRES #8 GAUGE AND OVER TO BE STRANDED
 ALL WIRES BETWEEN MOVING LEAVES AND FIXED PARTS TO BE
 SIMPLEX HFG. CO'S TIREX CABLES OR EQUIVALENT, SUITABLE TIED
 TOGETHER, ENDING & SPLICED IN PROPERLY LOCATED CAST IRON BOXES.
 WIRES AT TERMINALS AND IN JUNCTION BOXES TO HAVE FIBRE
 IDENTIFICATION TAGS, STAMPED TO CONFORM WITH THE NOTATIONS
 ON THIS DIAGRAM
 WIRES SHOWN THUS $\text{---} \text{---}$ ARE IN SUBMARINE CABLE

SUBMARINE CABLES

1- D.C. CABLE CONTAINING 3" 0000, 2" 6 & 1" 12 WIRES OF WHICH
 3" 12 ARE SPARES
 1- A.C. CABLE-440VOLT CONTAINING 24" 12 & 8" 10 WIRES OF WHICH
 5" 12 ARE SPARES (8" 10 WIRES ARE FOR FUTURE CONSTRUCTION)
 1- A.C. CABLE-110 VOLT CONTAINING 32" 12, 4" 10 & 2" 8 WIRES OF
 WHICH 7" 12 ARE SPARES (1" 8 WIRES ARE FOR PROPOSED
 APPROACH LIGHTS)



NOTE:
 FOR KEY TO ELECTRICAL EQUIPMENT
 SEE LIGHT DIAGRAM DRAWING N° 1343-50

THE SCHERZER ROLLING LIFT BRIDGE CO.
 Approved: *[Signature]* 13, 1933
 Chief Engineer

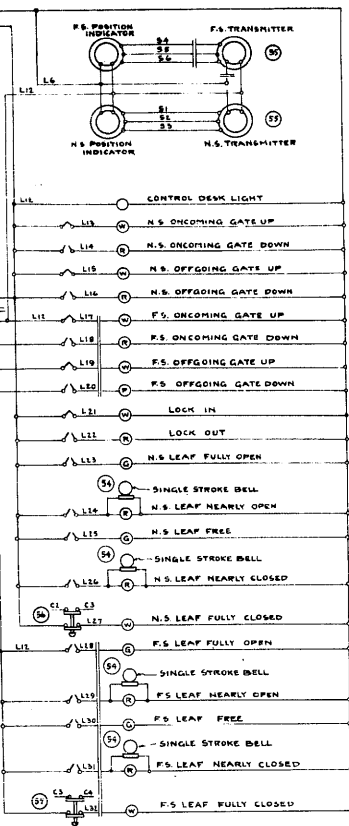
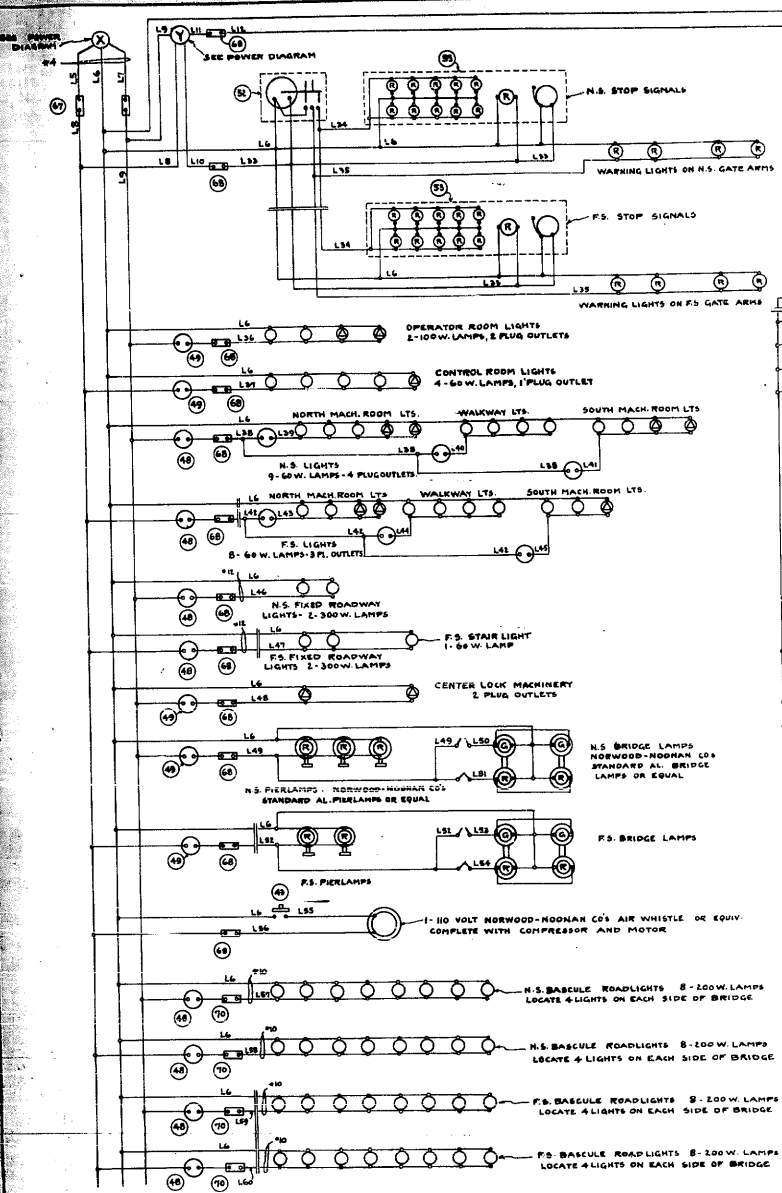
STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 Approved: *[Signature]*
 Bridge Engineer

**POWER AND CONTROL WIRING DIAGRAM
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY ST. JOLIET ILL.**

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
 MONADNOCK BLOCK, CHICAGO, ILL.

DATE: MARCH 20 1933
 SHEET NO. 1343-49
 APPROVED: *[Signature]*
 Chief Engineer





KEY TO ELECTRICAL EQUIPMENT		
NO	DESCRIPTION	CONTROLS
1	A.C. VOLTMETER 0-600 VOLT SCALE	MAIN LINE
2	A.C. AMMETER 0-400 A SCALE	
3	CURRENT TRANSFORMER #200 A RATIO	#2
4	D.C. VOLTMETER 0-300 V. SCALE	EXCITERS
5	D.C. AMMETER 0-200 A SCALE COMPLETE WITH ESTERLINE SHUNT	N.S.'S MAIN LINE MOTORS
6	400A. 3P.S.T. MANUALLY OPERATED O.C.B. WITH I.T.L. D.L. TRIP COILS & NO VOLTAGE RELAY	MAIN LINE
7	100A. 440 V. 3 POLE MAGNETIC CONTACTOR	#1 MOTOR GENERATOR SET
8	SAME AS NO 7	#2
9	75A 440V 3P. MAGNETIC CONTACTOR	CENTER LOCK MOTOR
10	SAME AS AND MECHANICALLY INTERLOCKED WITH #9	
11	SAME AS NO 9	GATES
12	40A-440V 3P MAGNETIC CONTACTOR	EMERGENCY BRAKES
13	SAME AS NO 12	SERVICE BRAKES
14	2 COIL THERMAL O.L. RELAY	MOTOR GEN SETS
15	200 A 3P.S.T. 800 V.A.C. KNIFE SWITCH	
16	60A. 1P.S.T. 800 V.A.C. SAFETY SWITCH	LIGHT SERVICE
17	60A. 3P.S.T. 800 V.A.C. KNIFE SWITCH	GATES
18	SAME AS NO 17	PUMP MOTORS
19	2 COIL THERMAL O.L. RELAY	CENTER LOCK
20	100A. 5 P.S.T. 250 V. KNIFE SWITCH	GENERATOR DISCONNECT
21	60A 1P.S.T. 150V KNIFE SWITCH WITH DISCHARGE CLIP	GENERATOR FIELDS
22	100A 4 P.D.T. 150V D.C. KNIFE SWITCH	MOTOR DISCONNECT
23	100A 5 P 150V D.C. MAGNETIC CONTACTOR	LEAF MOTORS
24	40A 5 P	GENERATOR FIELD
25	40A D.P.	EXCITER SELECTORS
26	MAGNETIC TIME DELAY RELAY	MOTOR FIELDS
27		N.S. FULL POWER
28	MAGNETIC RELAY	N.S. REDUCED POWER-RAISE
29	MAGN. RELAY WITH NORM. OPEN & NORM. CLOSED CONTACT	N.S. REDUCED POWER-LOWER
30	SAME AS NO 29	F.S. FULL POWER
31	SAME AS NO 29	F.S. REDUCED POWER-RAISE
32	SAME AS NO 29	F.S. REDUCED POWER-LOWER
34	CONTROL	#1
35		GATES
36		EMERGENCY BRAKES
37		CONTROL CIRCUIT
38		EXCITER FIELD
39	PUSHBUTTON WITH NORM. OPEN & NORM. CLOSED CONTACT	N.S. LIMITS RELEASE RAISE
40	SAME AS NO 38	F.S.
41		#1 HOT GEN. SET
42		#2
43	NORMALLY OPEN PUSHBUTTON STATION	LOCK MOTOR
44	NORWOOD-NOONAN CO'S FOOT SWITCH OR EQUIVALENT	N.S.'S LIMITS RELEASE-CLOSE
45	20A. 120 V.D.C. TUMBLER SWITCH	EMERGENCY RELEASE GATES
46		LOCK
47		BRIDGE
48	25A. 125 V. 5 P. TUMBLER SWITCH	N.S. 1P.S. ROADWAY & MACH. LIGHTS
49	10A	LIGHTING CIRCUITS
50	GEN. ELECT. CO'S CR 7000 STARTER OR EQUAL	PUMP MOTORS
51	15 K.V.A. OIL COOLED 11000/130V SINGLE PHASE TRANSFORMER	LIGHT SERVICE
52	NORWOOD-NOONAN CO'S MODEL #10 - 2 CIRCUIT FLASHER 110V. 60 CYCLE. OR EQUIVALENT	ROAD TRAFFIC
53	NORWOOD-NOONAN CO'S SIGNAL LIGHT UNIT 50-50 C. WITH #253 IF MOTOR OPERATED WARNING BELL OR EQUAL	ROAD TRAFFIC
54	110 V.A.C. SINGLE STROKE GONG	NEARLY OPEN & NEARLY CLOSED POSITIONS
55	SELENIUM INDICATOR & TRANSMITTER	BRIDGE POSITION
56	NORWOOD-NOONAN CO'S FULLY CLOSED SWITCH OR EQUAL	N.S. INTERLOCK & INDICATION
57	SAME AS NO 56	F.S. INTERLOCK & INDICATION
58	MANUALLY OPERATED DRUM TYPE SELECTOR SWITCH	GENERATOR SELECTION
59	250A. 600V. N.B.C. CARTRIDGE FUSES	MOTOR GEN SETS
60	10A. 600V	CENTER LOCK MOTOR
61	20A. 600V	SUMP PUMP MOTORS
62	15A. 600V	LIGHT TRANSFORMER
63	10A. 600V	BRAKES
64	10A. 600V	GATES
65	3A. 600V	#1
66	100A. 150V	GENERATOR FIELDS
67	40A. 150V	LIGHT SERVICE
68	15A. 150V	N.S. 1P.S. 150V. SIGNALS
69	10A. 150V	EXCITER SELECTOR
70	20A. 150V	BAKULE ROAD LIGHTS

LIGHTING AND INDICATION WIRING DIAGRAM
DOUBLE LEAF TRUNNION BASCULE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
BRIDGE
RUBY ST. JOLIET, ILL.

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

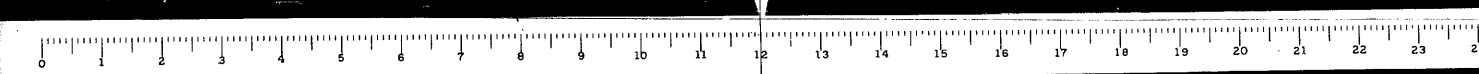
THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]*
Marrying Engineer

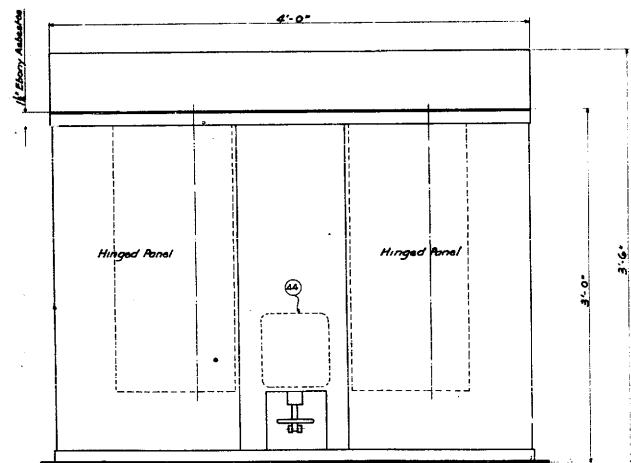
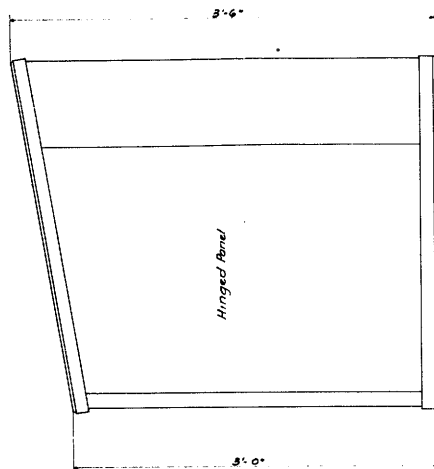
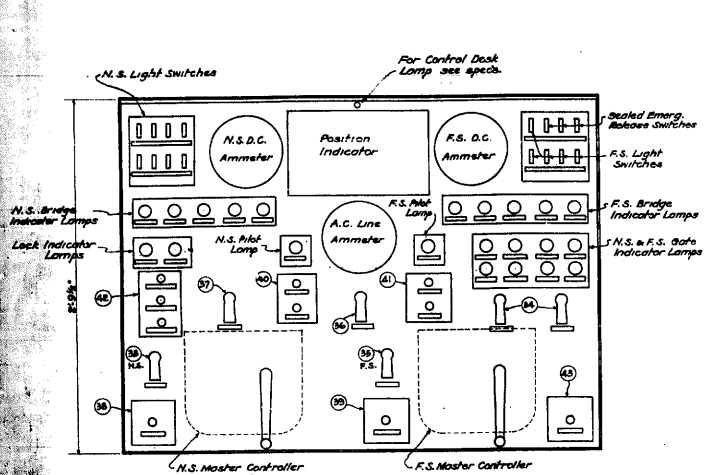
DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAUCK BLOCK, CHICAGO, ILL.

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONAUCK BLOCK, CHICAGO, ILL.

SCALE: 1/8" = 1'-0"
DATE: MARCH 20 1933
CHECKED BY: *[Signature]*
REVISED SEPT 11, 1933

SHEET NO. 1343-50
Accession No 3349

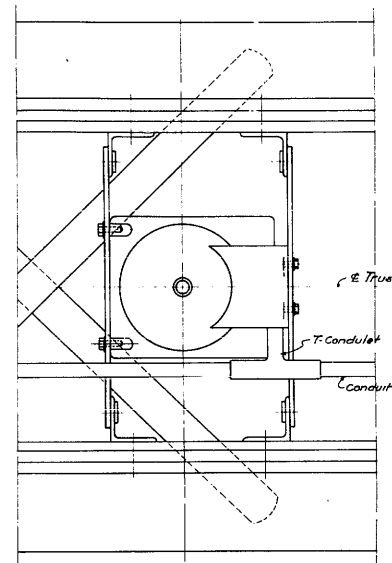
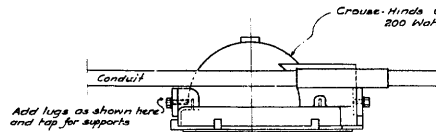




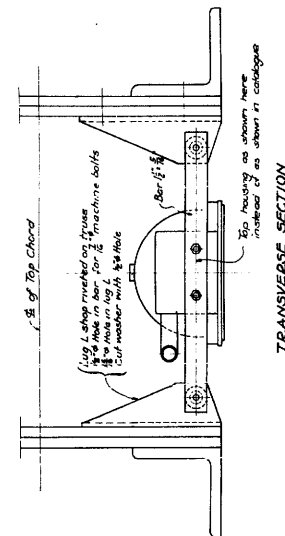
MAIN CONTROL DESK
1 - REQ'D.
Scale 2"=1'-0"

SPECIFICATIONS:
Control stand to be substantially constructed of #14 Ga. steel plate over light angle iron frame work, the hinged panels to be #10 Ga. steel plate.
The top to be 1/2" Ebony Asbestos
Painting outside to have one coat of Underbody Primer and two coats of Fish Black or drying Enamel Paint.
Front and side panels to be Hinged.
Emergency release switches to be sealed.
All exposed metal fittings to be brushed Nickel Plated.

NOTE:
Two drum type control switches for near side gates to be placed in the operator's room as directed by the engineer.



PLAN



DETAILS OF ATTACHING ROADWAY LIGHTS TO TOP CHORD
Scale 3"=1'-0"

ROADWAY LIGHTS & MAIN CONTROL DESK
DOUBLE LEAF TRUNNION MASCHLE BRIDGE
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approval: *[Signature]* April 11, 1933
Managing Engineer

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS

Approval recommended:

Approved: *[Signature]* Sept 13 1933
Chief Engineer

Bridge Engineer

Approved:

Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONADNOCK BLOCK, CHICAGO, ILL.

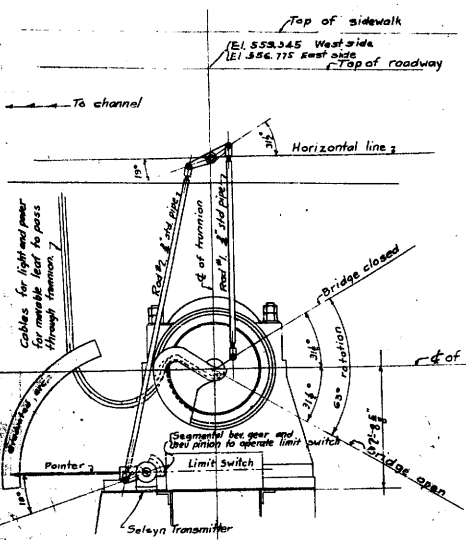
DRAWN BY W.B.
CHECKED BY J.M.
REVISED Sept. 8, 1933

SCALE 2"=1'-0"
DATE April 25, 1933

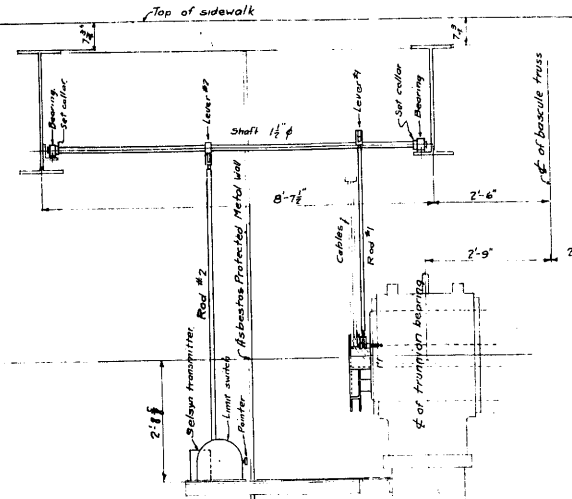
SHEET NO. 1343-51

Accession No. 3830

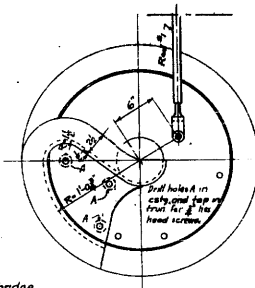




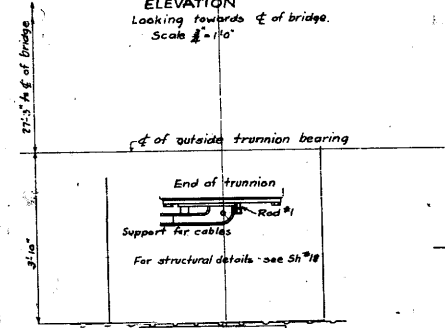
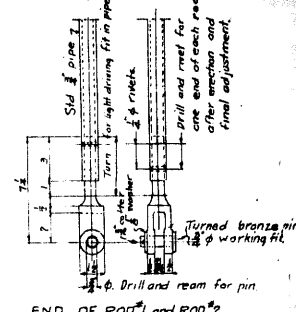
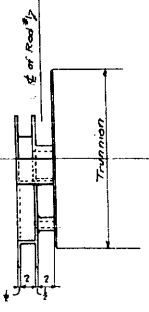
ELEVATION
Looking towards ϕ of bridge.
Scale $\frac{1}{2}'' = 1'-0''$



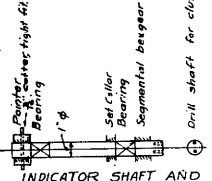
ELEVATION
Looking towards channel
Scale $\frac{1}{2}'' = 1'-0''$



TOP VIEW OF CASTING
SUPPORT FOR LIGHT AND POWER CABLES.
Scale, $\frac{1}{2}'' = 1'-0''$
Material, cast iron
TWO REQ'D

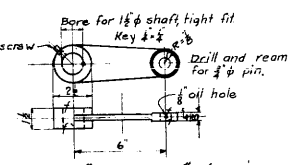


PLAN
Scale $\frac{1}{2}'' = 1'-0''$

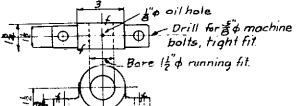


INDICATOR SHAFT AND CLUTCH
Scale $3/4'' = 1'-0''$
Material, Cold Rolled Steel
TWO REQ'D

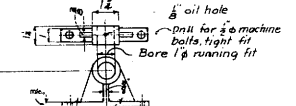
Secure pins and transmitter shaft into case and nutter the case.



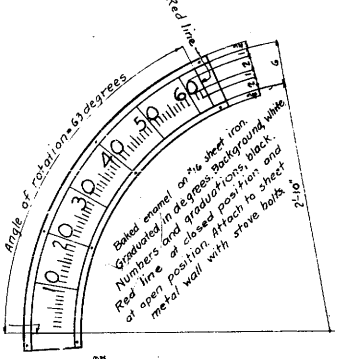
LEVER #1 and LEVER #2 (Alike)
Scale $3/4'' = 1'-0''$
Material, Cast Steel
FOUR REQ'D



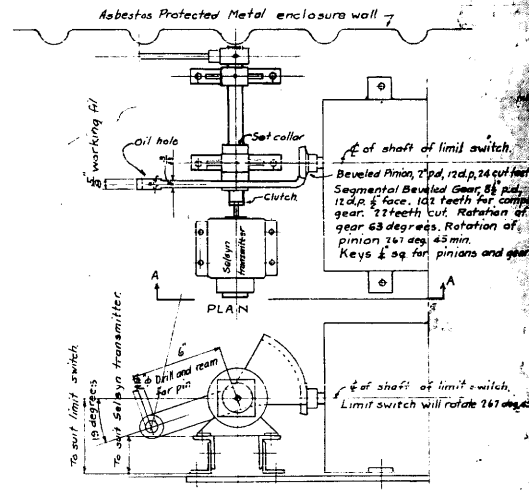
BEARING FOR 1 1/2 INCH SHAFT
Scale $3/4'' = 1'-0''$
Material, Cast Iron
FOUR REQ'D



BEARING FOR 1 INCH SHAFT
Scale $3/4'' = 1'-0''$
Material, Cast Iron
FOUR REQ'D



ARC FOR MECHANICAL INDICATOR
Scale $1 1/2'' = 1'-0''$
TWO REQ'D



ELEVATION A-A
ASSEMBLY OF MECHANICAL INDICATOR, SELSYN TRANSMITTER AND LIMIT SWITCH
Scale $3/4'' = 1'-0''$

MECHANICAL INDICATOR, ETC.
DOUBLE LEAF TRUNNION BASCULE BRIDGE.
OVER
THE ILLINOIS WATERWAY
AT
RUBY ST. JOLIET, ILL.

THE SCHERZER ROLLING LIFT BRIDGE CO.
Approved: *[Signature]* 12, 1933
Managing Engineer
Approved: *[Signature]* 12, 1933
Chief Engineer

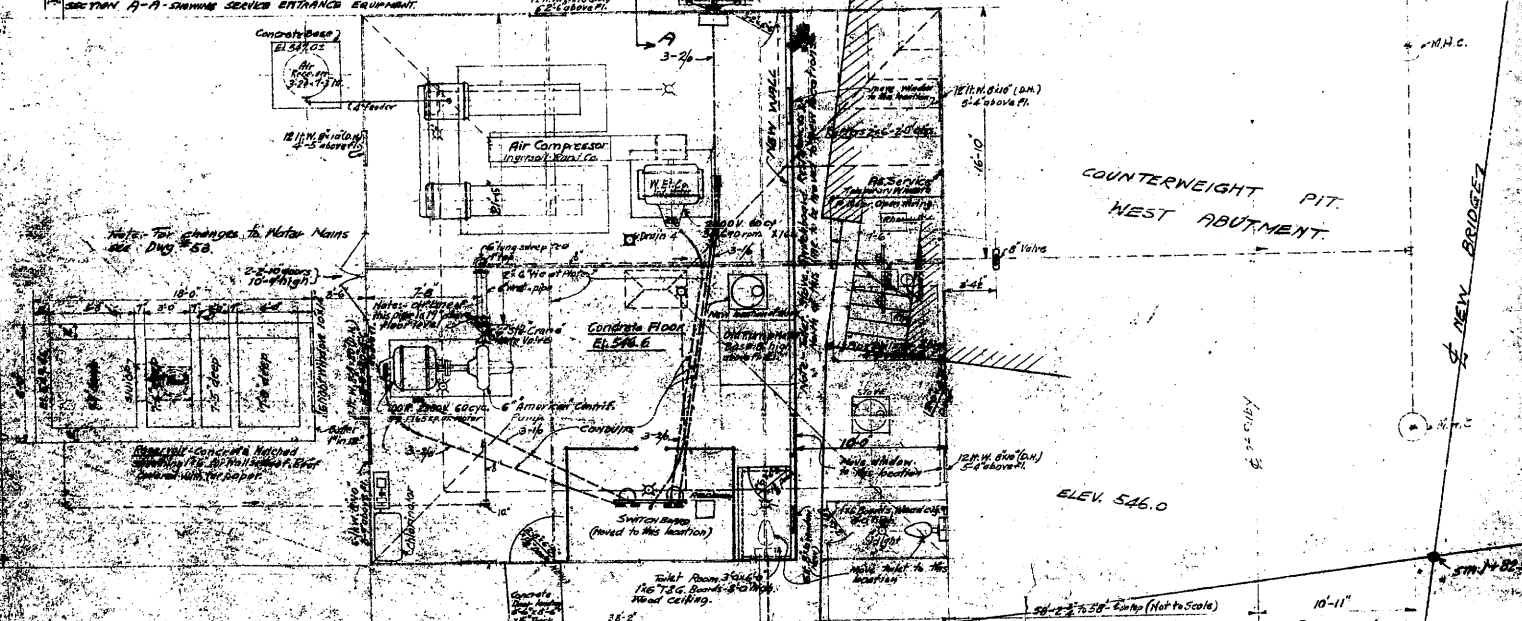
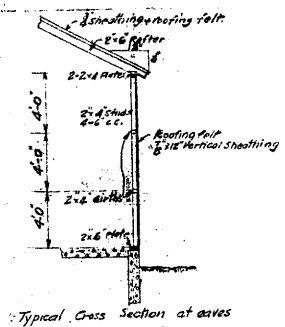
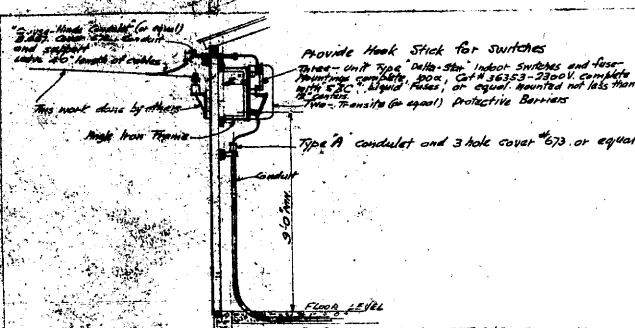
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF WATERWAYS
Approval recommended: _____
Bridge Engineer
Approved: _____
Chief Engineer

DESIGNED BY
THE SCHERZER ROLLING LIFT BRIDGE CO.
MONROEVILLE BLOCK, CHICAGO, ILL.

DRAWN BY: *[Signature]*
TRACED BY: *[Signature]*
CHECKED BY: *[Signature]*
REVISED

Scale: As noted
DATE: OCT 6, 1933
SHEET NO. 1343-52.
Accession No 3351





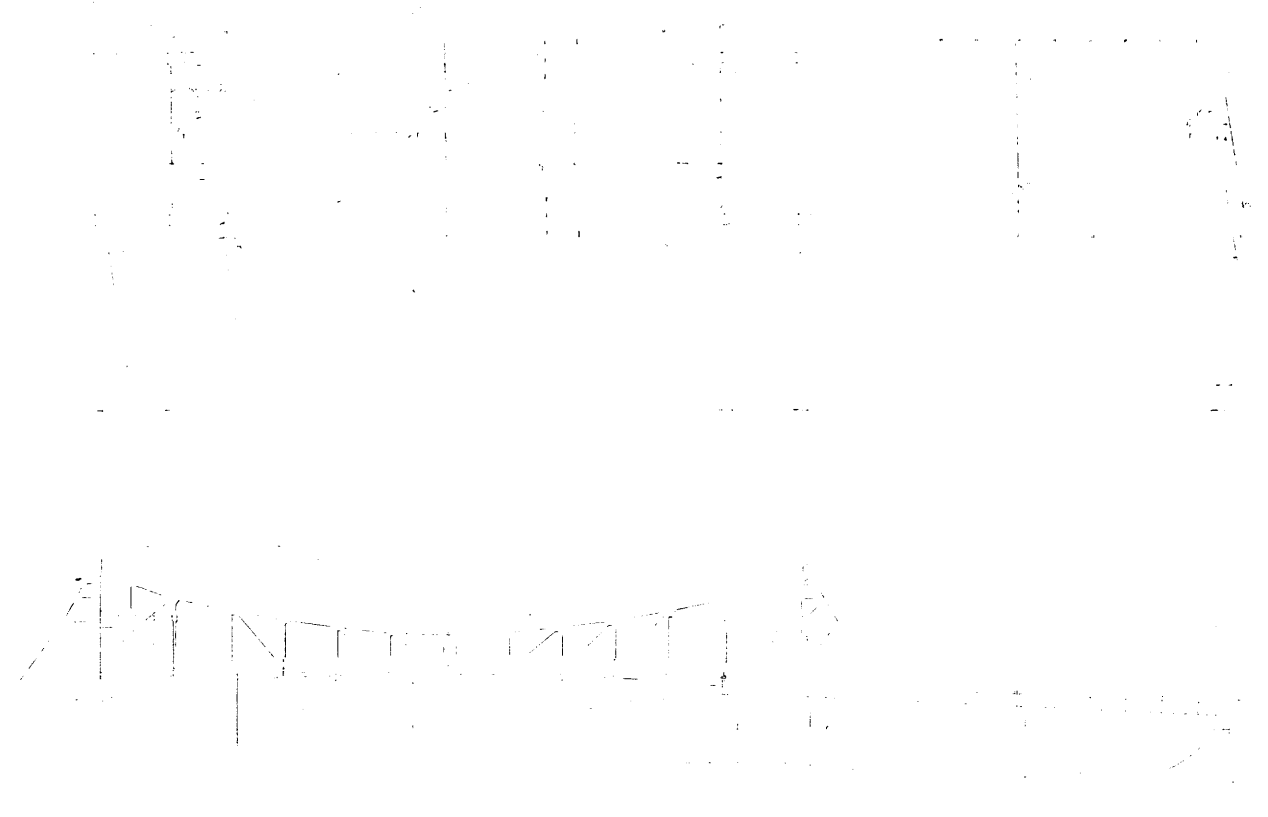
10-11-23
 STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS

Approval recommended _____
 Bridge Engineer
 Approved _____
 Chief Engineer

10-11-23
 STATE OF ILLINOIS
 DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
 DIVISION OF WATERWAYS
 DOUBLE LEAF TRUNNION BASCULE BRIDGE
 OVER
 THE ILLINOIS WATERWAY
 AT
 RUBY STREET JOLIET, ILLINOIS
 ALTERATIONS TO PUMPING STATION
 SCALE: 1/4" = 1'-0"
 SHEET No. 54
 ACC. No. 5289



10



SHEET NO. 140 - E

