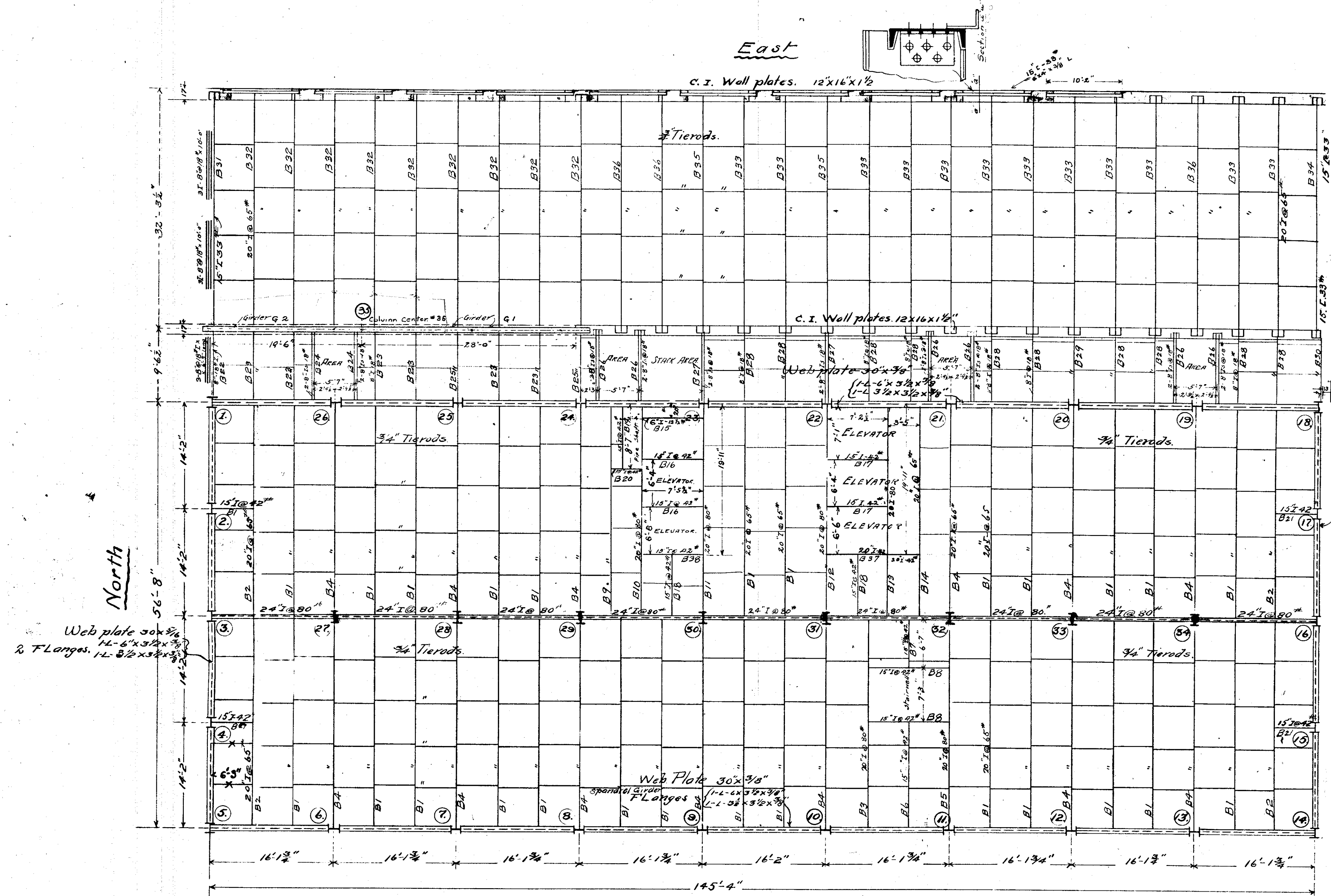


Foundations A - 3-6-7-8-9-10-11-12-20-21-22-23-24-25-26 - To be 10'-6" x 10'-6"
 " B - 27-28-29-30-31-32 - " " 12'-6" x 12'-6"
 " C - 1-5 - " " 8'-6" x 8'-6"
 " D - 2-4 - " " 6'-10" x 6'-10"
 " E - 33 - " " 11'-0" x 11'-0"



— First Floor Plan. —

West.

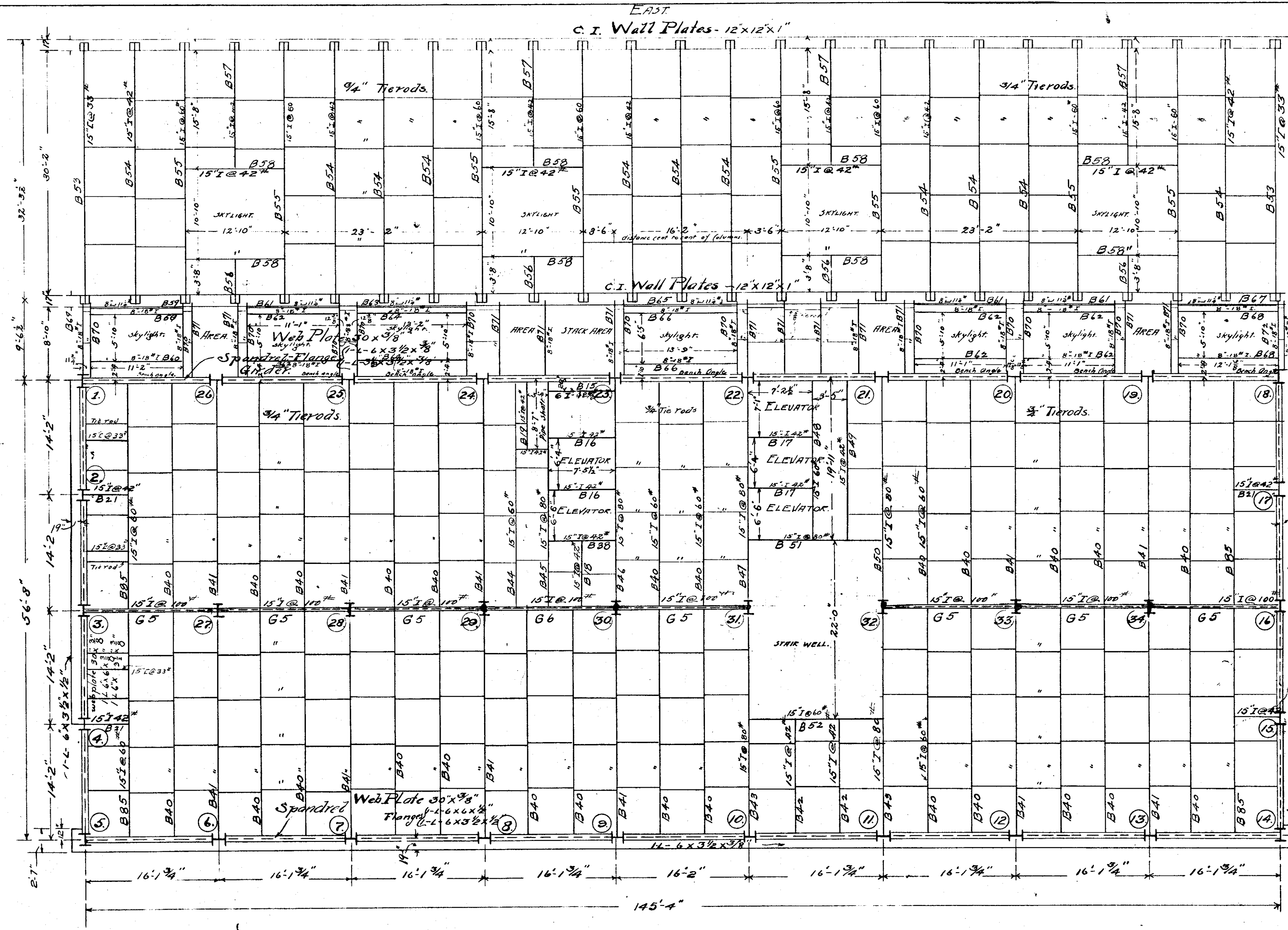
NOTE! Contractor to verify all dimensions.

STEEL WORK
 OF
THE MERCANTILE LIBRARY BLDG.
 CINCINNATI, O.
 TO BE ERRECTED BY
THOS. EMERY'S SONS
 Bert L. Baldwin & Co. Engineers
 72-73 Perin Bldg. Cincinnati, O.

Not use 1/2" tie rods for all
 8" beams
 Provide bearing plates for all
 8" beams where possible using 8" x 2 1/2"
 for double 8" is.

Webplate 30" x 9 1/2"
 & FLanges 1-L 6" x 3 1/2" x 7/8"
 2-L 3 1/2" x 3 1/2" x 7/8"

1



EAST
C.I. Wall Plates - 12x12x1"

C.I. Wall Plates - 12x12x1"

Note: use 8"x8" I bearing plates (steel) for wall ends of all 8" channels & beams. Where 8" I's or L's come opposite 15" I's or L's, increase size of 12x12 plates, to accommodate them. Use 3/4" tie rods for 8" to 6" L's.

NORTH

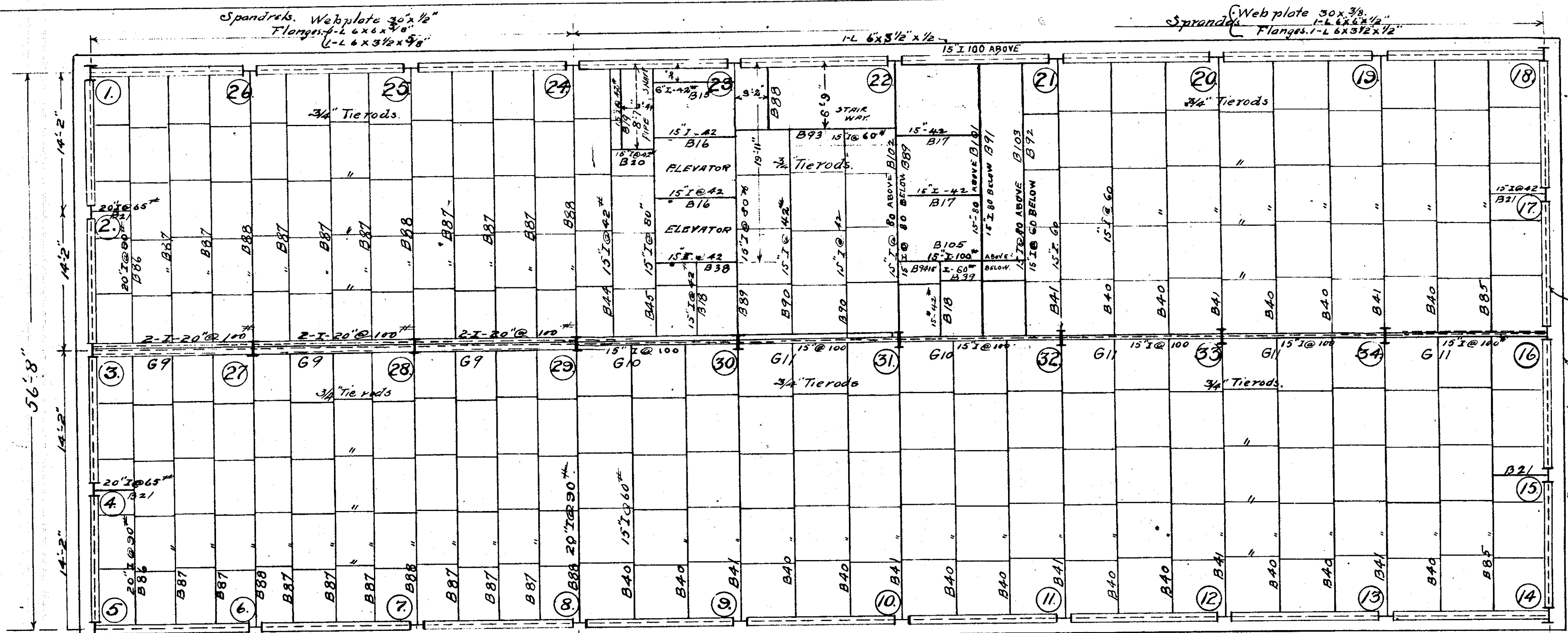
SOUTH

SECOND FLOOR PLAN
WEST

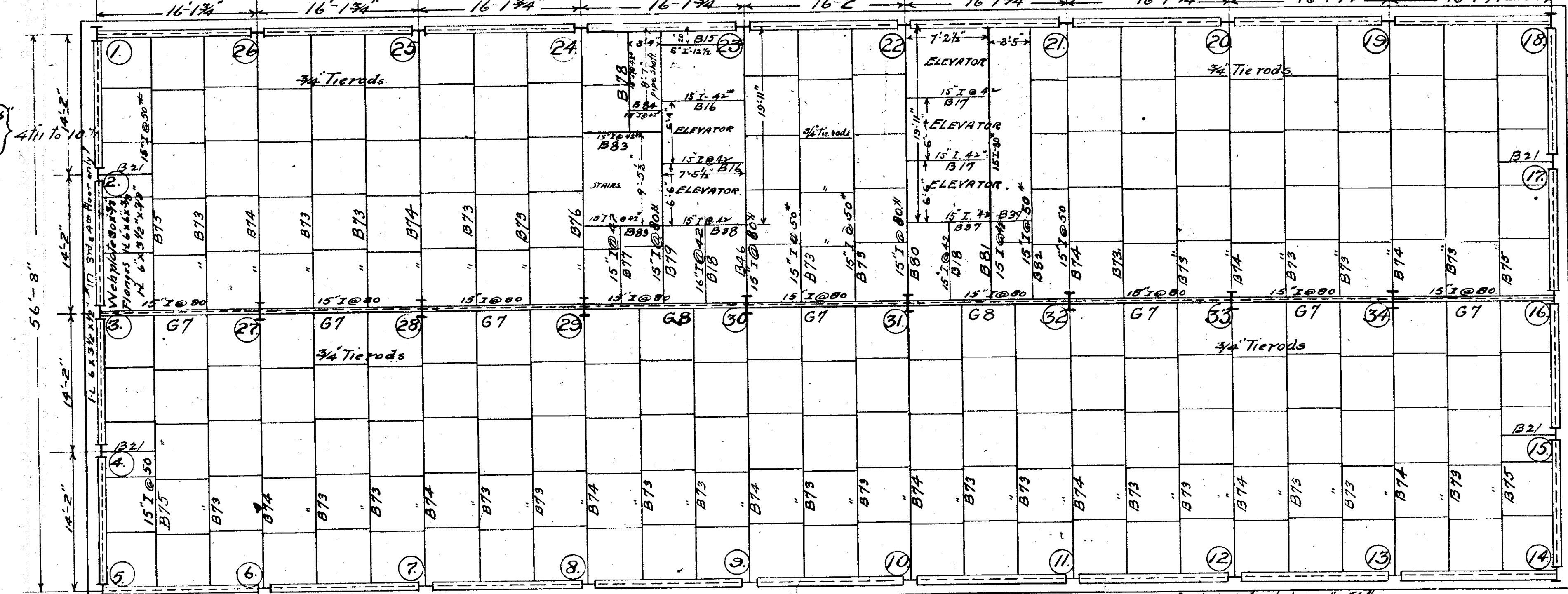
2

NOTE: Contractor to verify all dimensions.

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11th FLOOR PLAN



3RD TO 10th FLOOR PLAN

(1)

STEEL OF WORK
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Web plate 20x3/8
 Spandrels 1-L 3 1/2x3 1/2x3/8
 Flanges 1-L 6x3 1/2x3/8

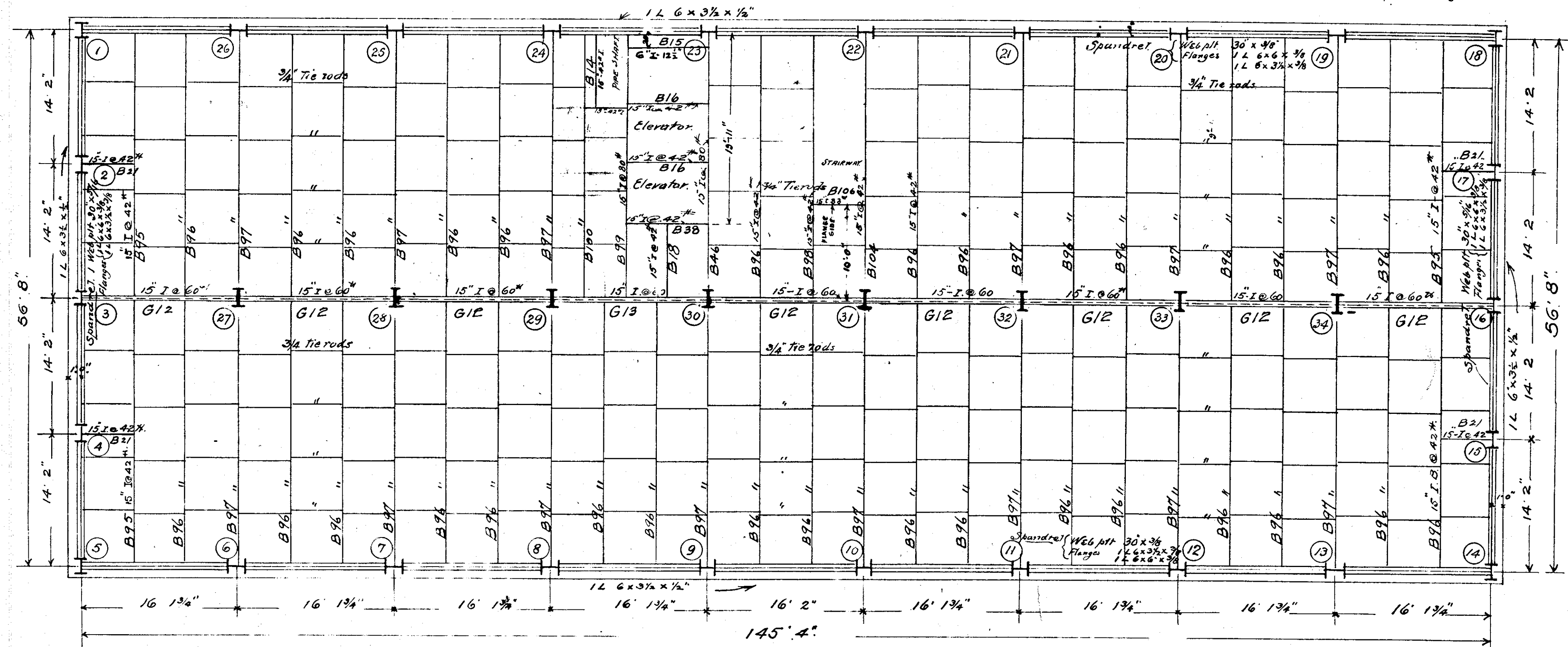
4th to 10th

Web plate 30x3/8
 Spandrels 1-L 6x6x1/2
 Flanges 1-L 6x3 1/2x3/8

Web plate 30x3/8
 Spandrels 1-L 6x6x1/2
 Flanges 1-L 6x3 1/2x3/8

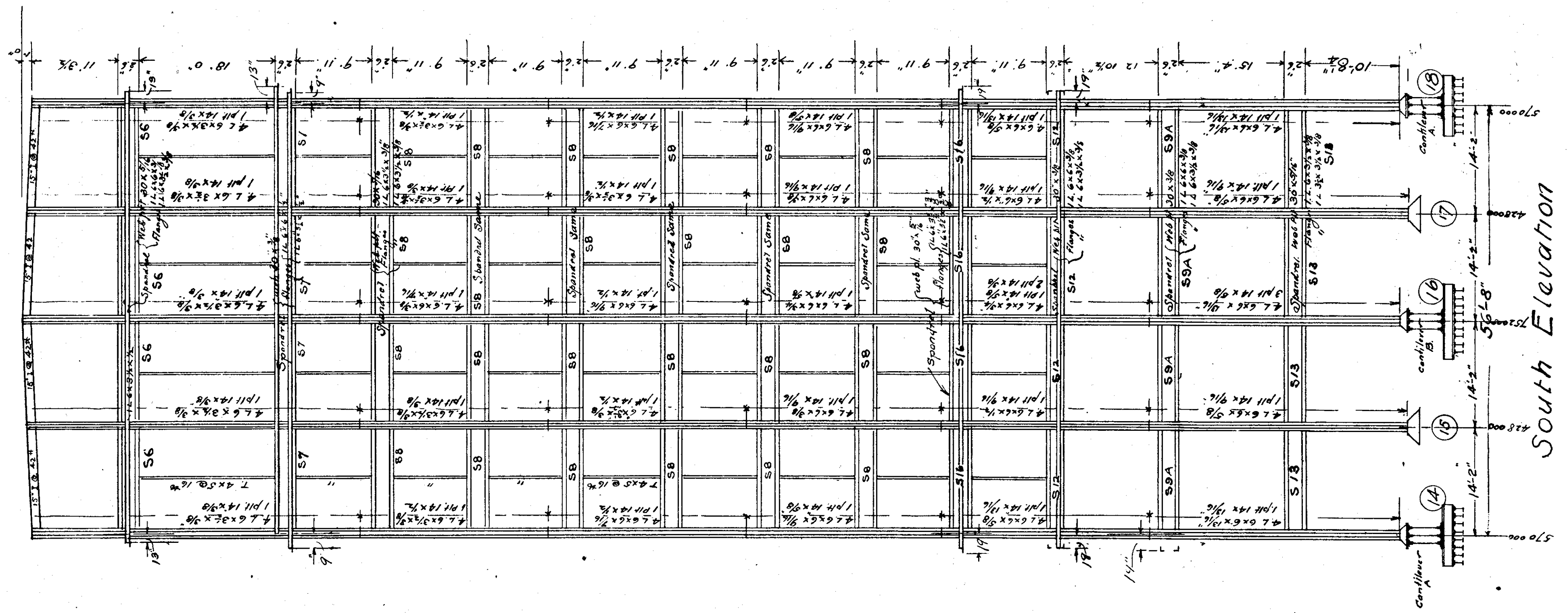
3-10

Note: Contractor to verify all dimensions.



12th Floor Plan.

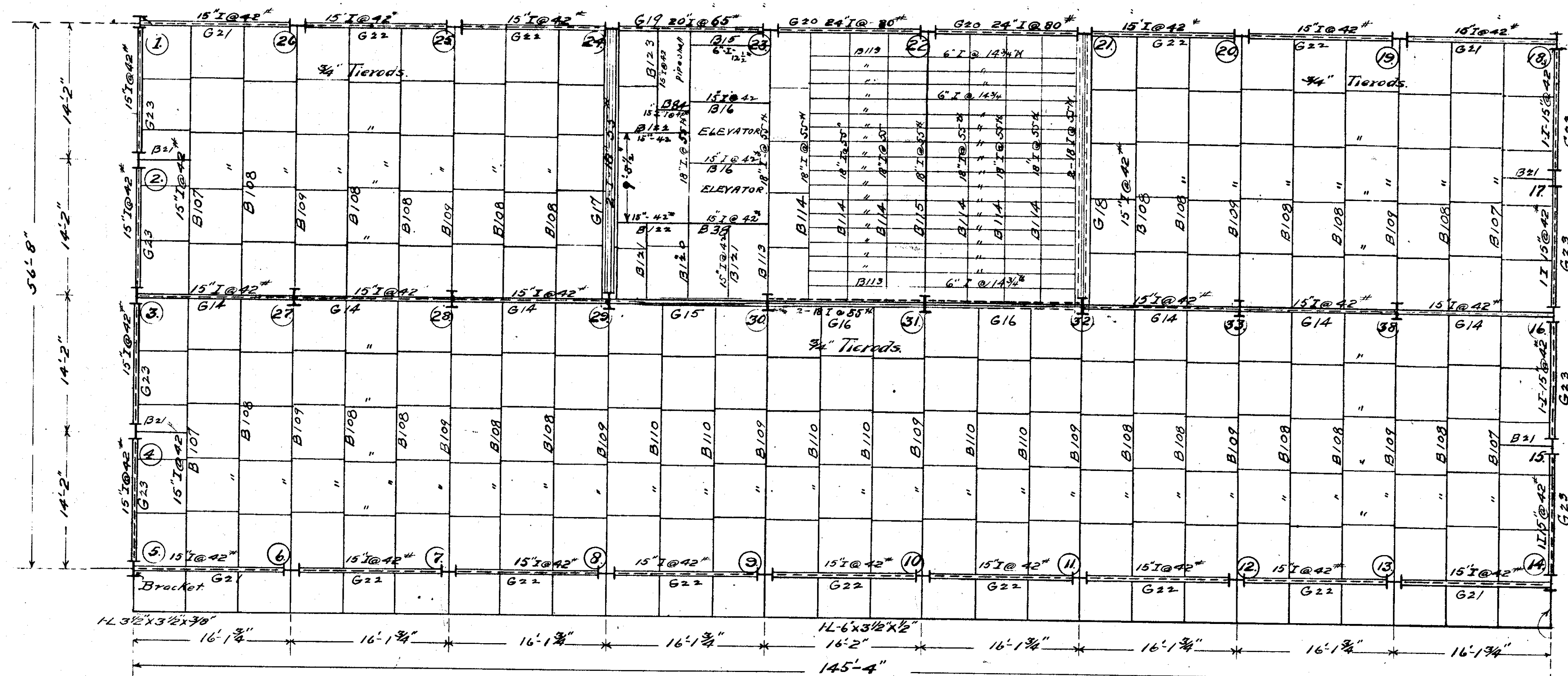
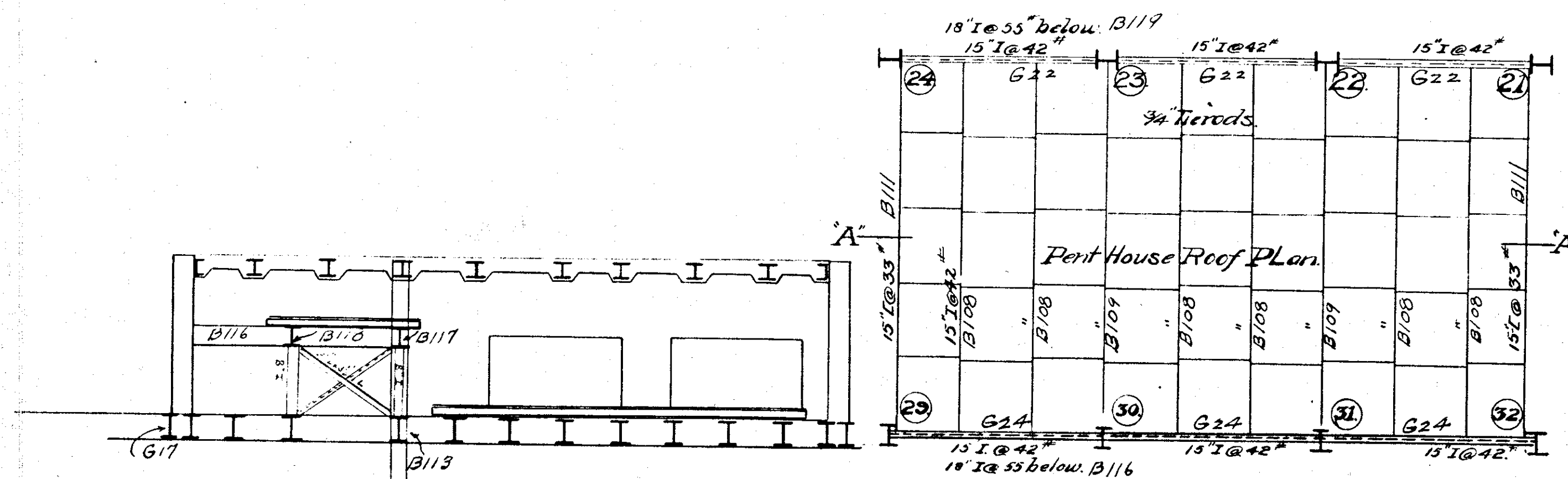
NOTE! Contractor to verify all dimensions.



South Elevation

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CINCINNATI
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THOS. EMERY'S SONS
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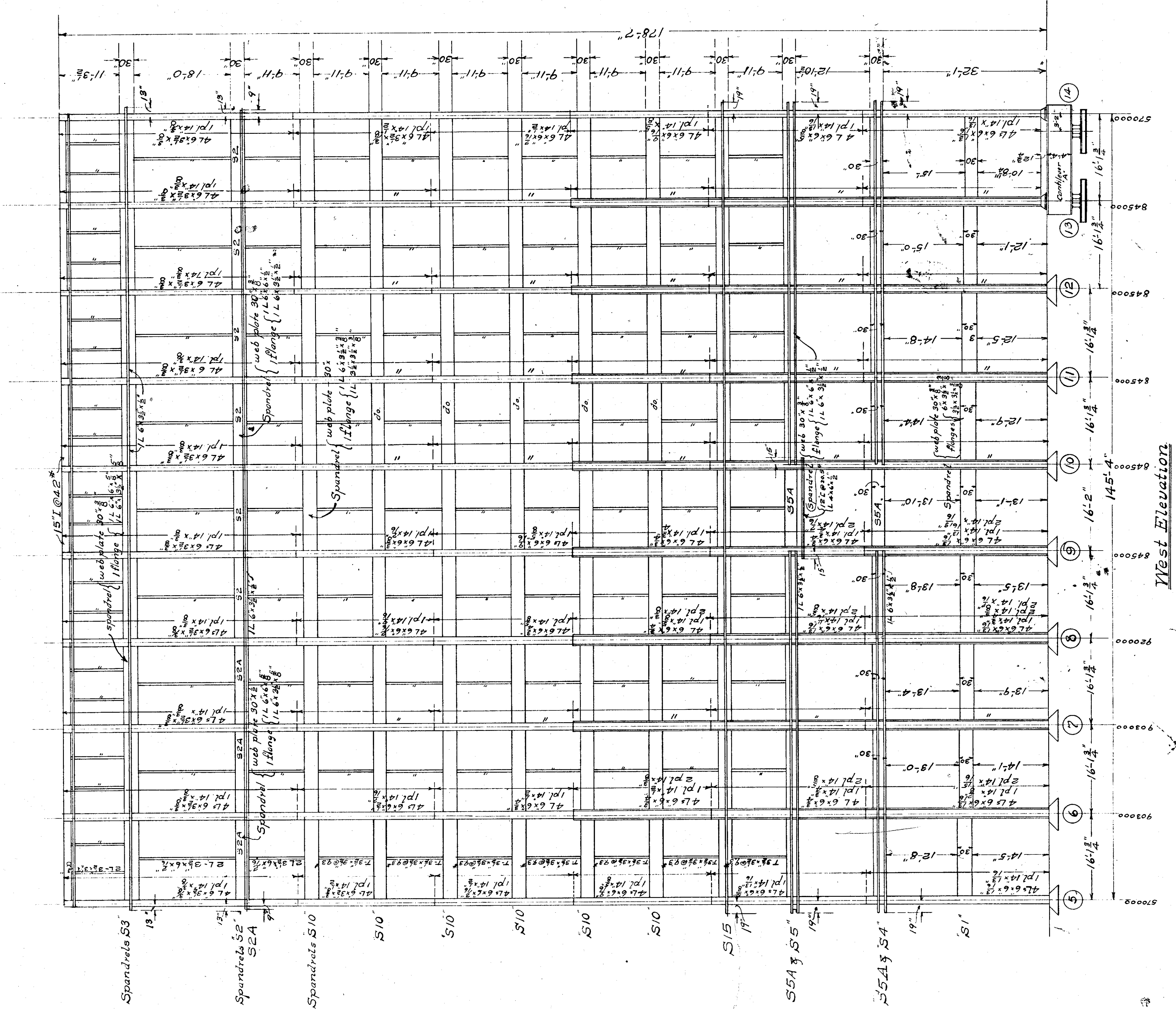
12



- ROOF & PENT HOUSE PLAN -

NOTE! Contractor to verify all dimensions.

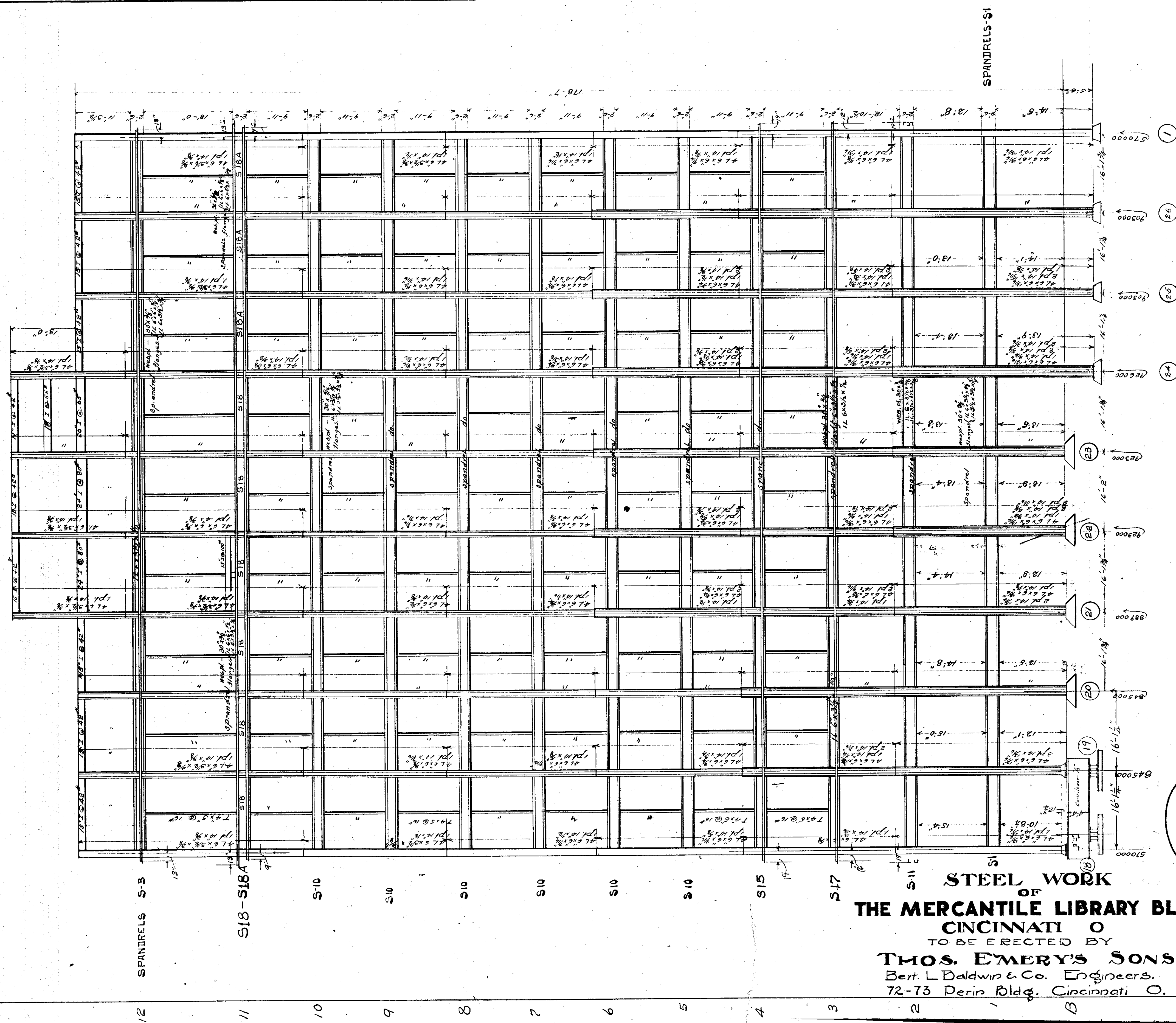
STEEL WORK
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THE MERCANTILE LIBRARY BLDG.
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 TO BE ERECTED BY
THOS. EMERY'S SONS
 Bert. L. Baldwin & Co. Engineers.
 72 73 Perin Bldg. Cincinnati, O.



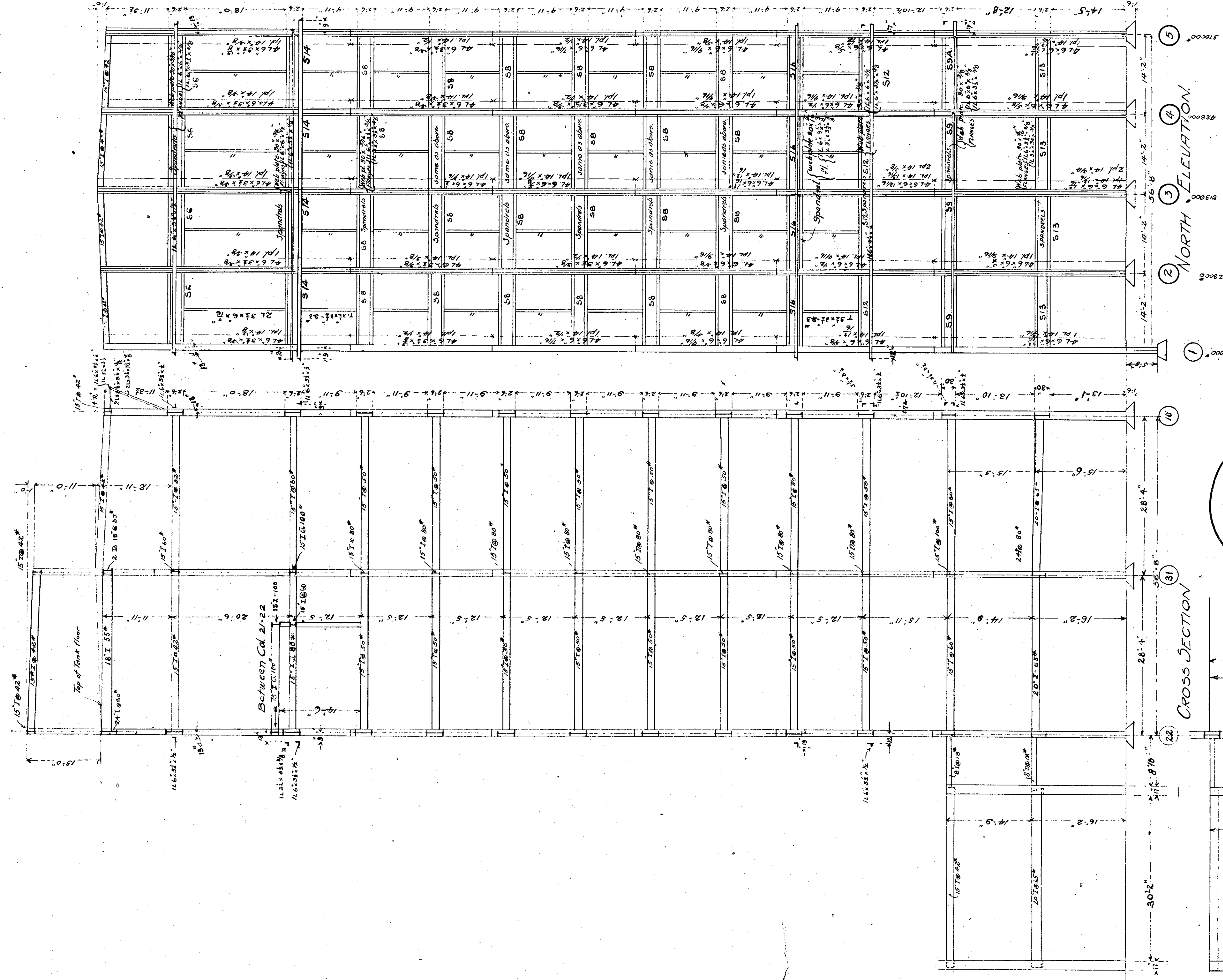
STEEL WORK
 OF
THE MERCANTILE LIBRARY BLDG
 CINCINNATI

TO BE ERRECTED BY
T.M.O.S. EMBURY & SONS
 Engrs. & Architects
 Bert. L. Baldwin & Co. Engineers
 72-73 Perin Bldg. Cincinnati.

West
 Elev



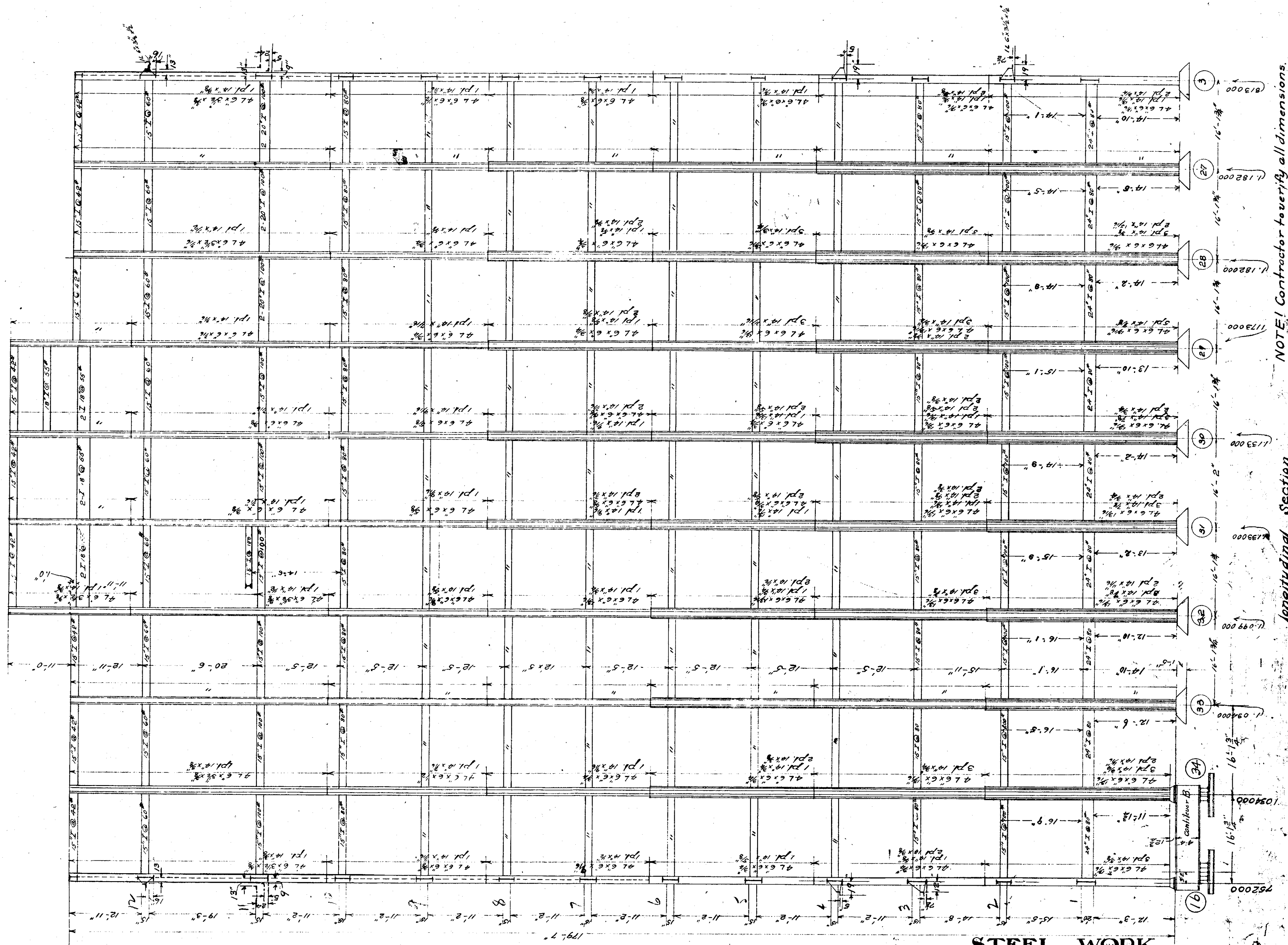
STEEL WORK
 OF
THE MERCANTILE LIBRARY BLDG.
 CINCINNATI O.
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 Bert. L. Baldwin & Co. Engineers.
 72-73 Perin Bldg. Cincinnati O.



North Elev

STEEL WORK
 THE MERCANTILE LIBRARY BLDG.
 CINCINNATI

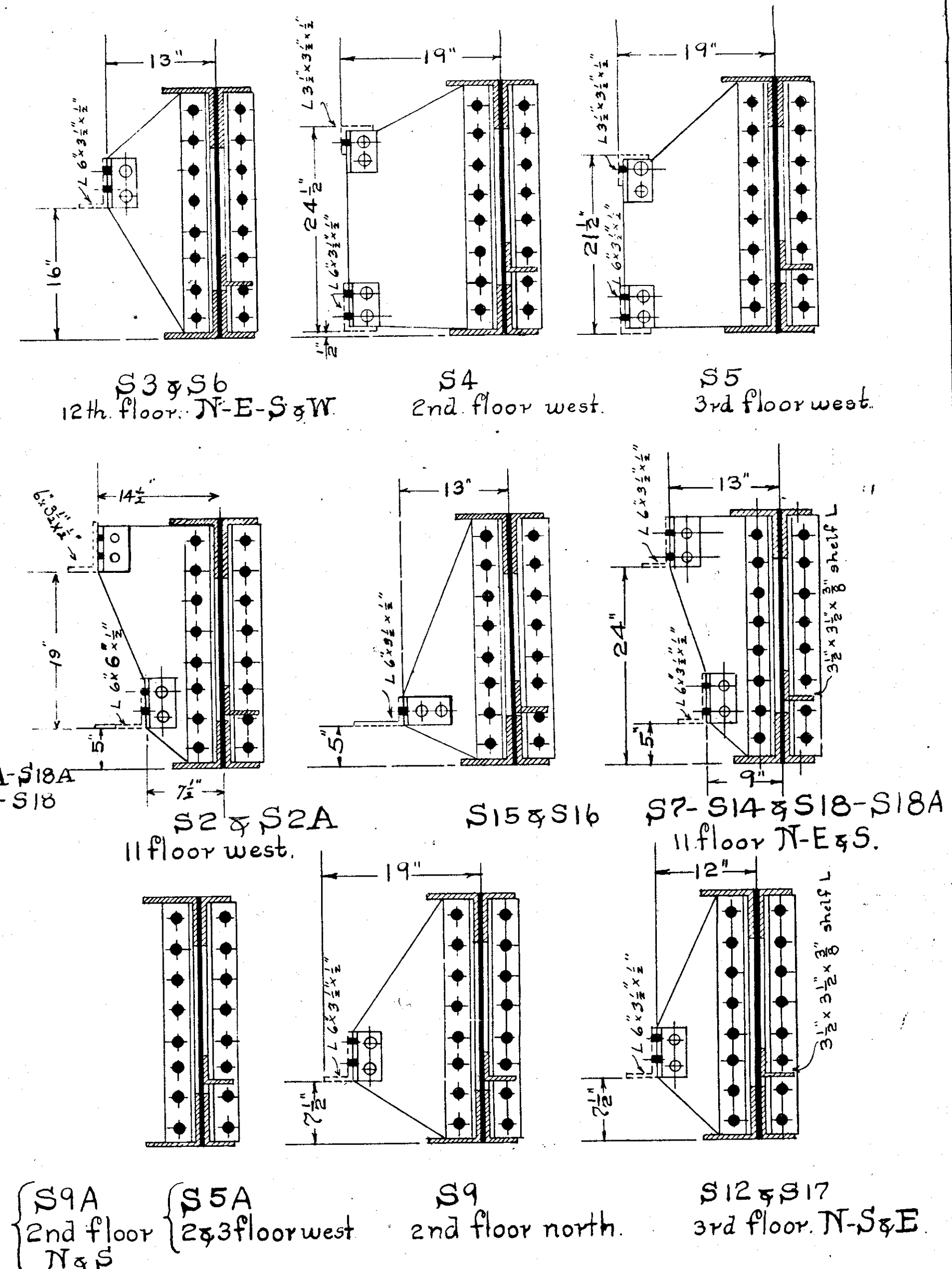
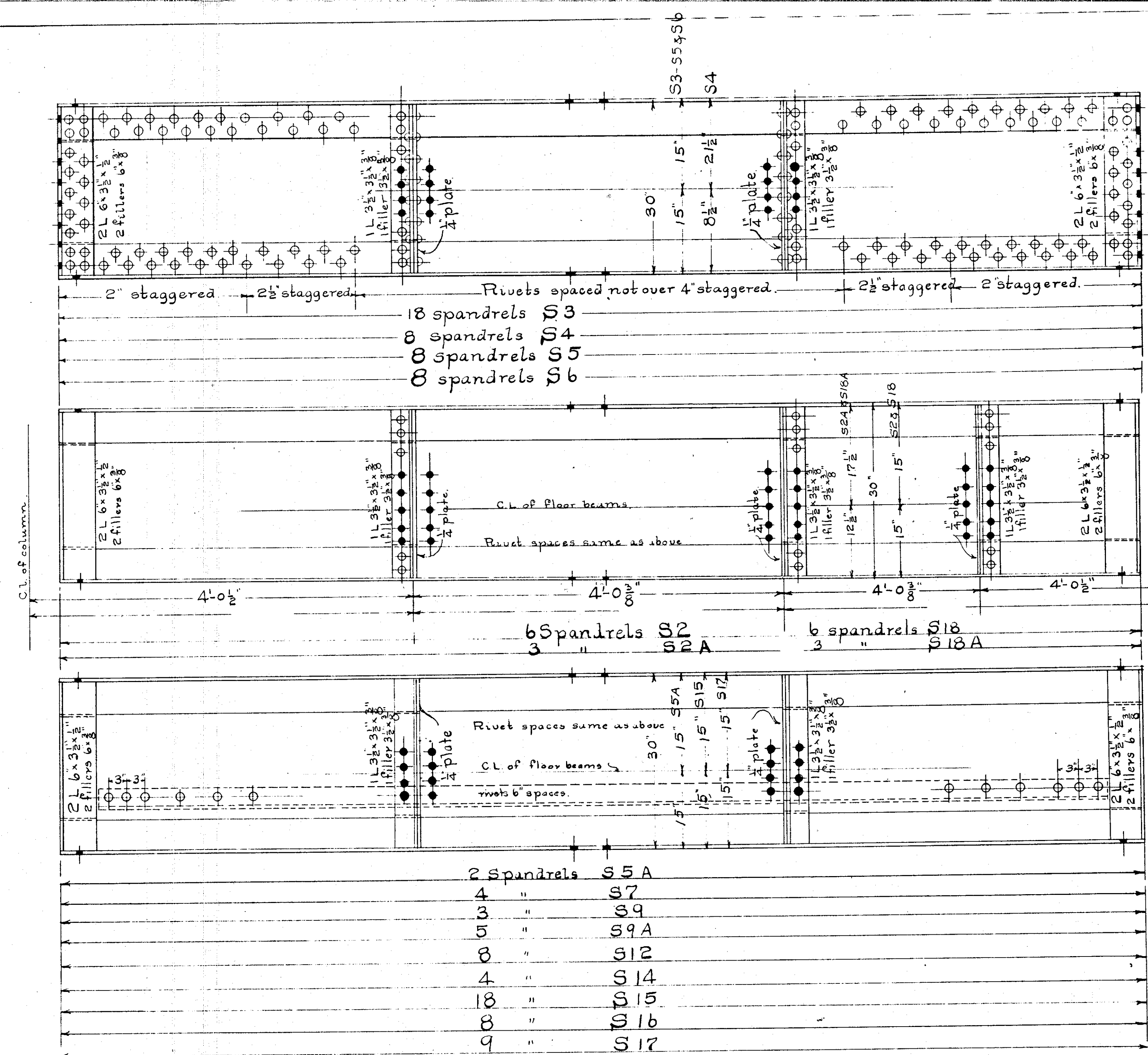
TO BE ERRECTED BY
 THOS. EMERY'S SONS
 Bert L. Baldwin & Co. Engineers.
 72-73 Perin Bldg Cincinnati, O.



NOTE! Contractor to verify all dimensions.

Longitudinal Section
Looking West

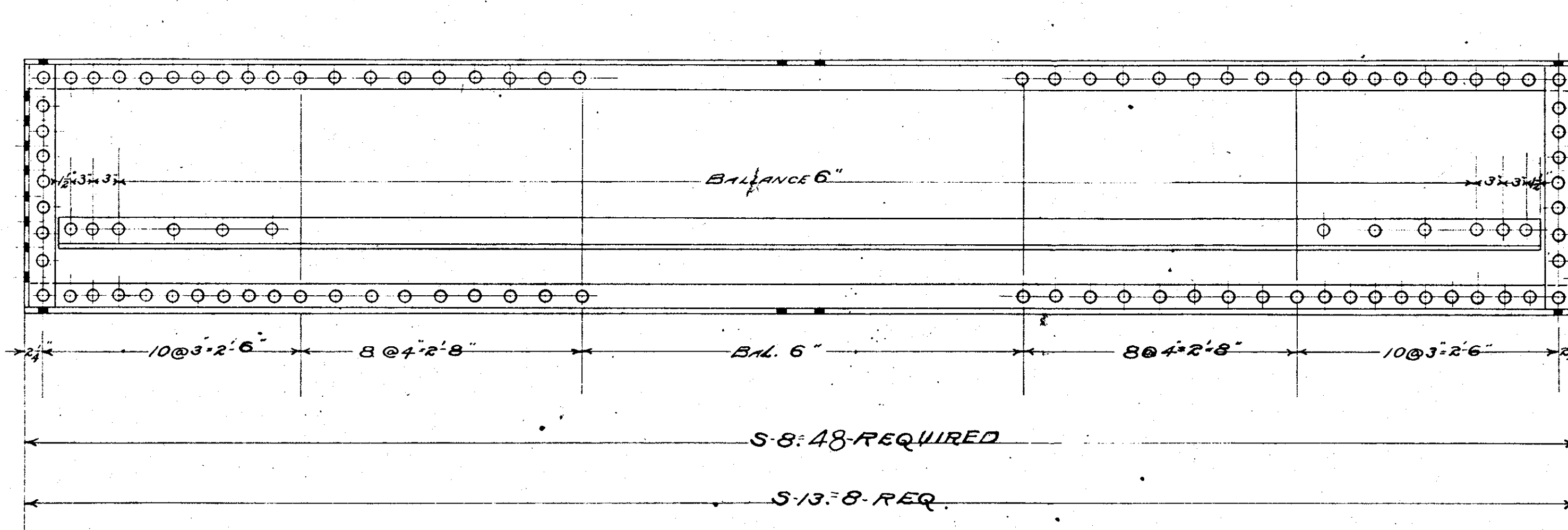
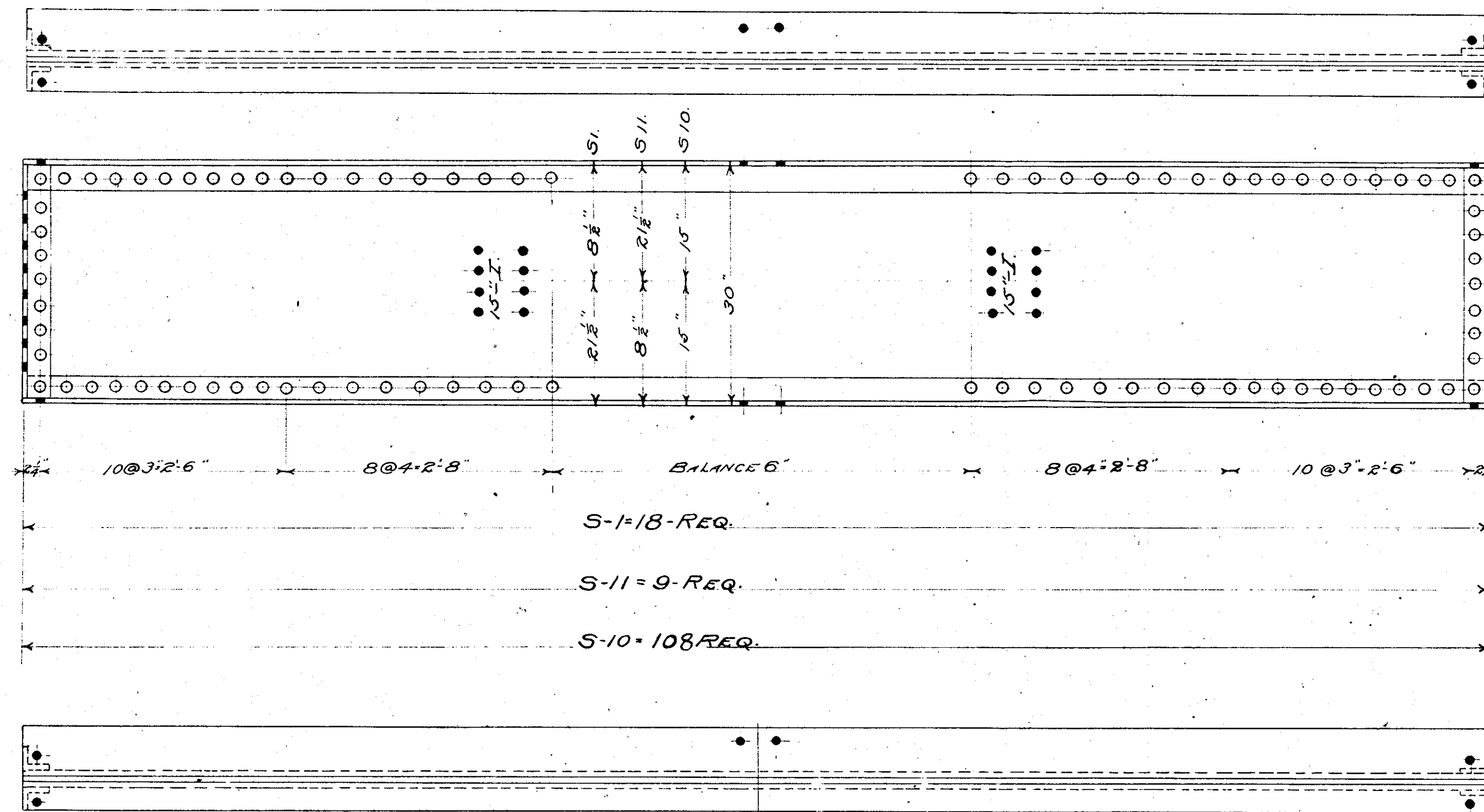
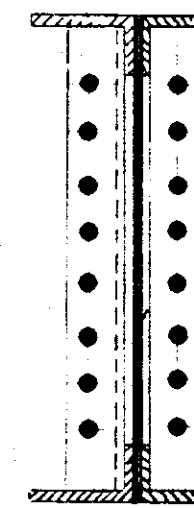
STEEL WORK
OF
THE MERCANTILE LIBRARY BLDG.
CINCINNATI O
TO BE ERECTED BY
THOS. EMERY'S SONS
Berf. L. Baldwin & Co. Engineers.
72-75 Perin Bldg. Cincinnati, O. **36-10**



Typical details of spandrels.
 Length of spandrels to be determined by plans.
 All rivets 3/4" diameter.
 Contractor to verify all dimensions.

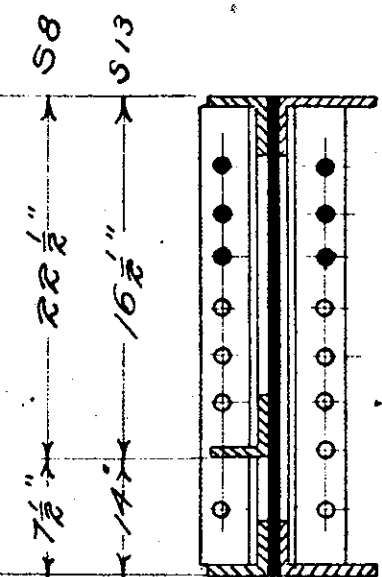
web plate 30 x 3/8"
 flanges { 1L 6 x 6 x 3/8" - S3-S6-S9-S14 & S12
 1L 6 x 3 1/2 x 3/8" }
 web plate 30 x 3/8"
 flanges { 1L 6 x 6 x 3/8" S2-S4-S5-S5A
 1L 6 x 3 1/2 x 3/8" } S7-S14-S17-S18
 web plate 30 x 3/8"
 flange { 1L 3 1/2 x 3 1/2 x 3/8" S1 & S11
 1L 3 1/2 x 3 1/2 x 3/8" }
 web plate 30 x 3/8"
 flanges { 1L 6 x 6 x 3/8" S8-S10-S13
 1L 3 1/2 x 3 1/2 x 3/8" } S15 & S16
 web plate 30 x 3/8"
 flanges { 1L 6 x 6 x 3/8" S2A & S18A
 1L 6 x 3 1/2 x 3/8" }

Steel Work
 for
 The Mercantile Library Bldg
 Cincinnati, Ohio.
 To be erected by
 Thos. Emery's Sons.
 Bert L. Baldwin & Co Engrs.
 72-73 Perin Bldg - Cincinnati.



MATERIAL FOR S1 & S11
 1-Web Plate 30"x8"
 2Ls 6"x3 1/2"x3/8"
 2Ls 3 1/2"x3 1/2"x3/8"
 4-STIF. Ls 3 1/2"x3 1/2"x3/8"x2'-5 1/4"
 4-FILLERS 3 1/2"x3 1/2"x1'-10 3/4"

MATERIAL FOR S10
 1-Web Plate 30"x5/16"
 2Ls 6"x3 1/2"x3/8"
 2Ls 3 1/2"x3 1/2"x3/8"
 4-STIF. Ls 3 1/2"x3 1/2"x3/8"x2'-5 1/4"
 4-FILLERS 3 1/2"x3 1/2"x1'-10 3/4"



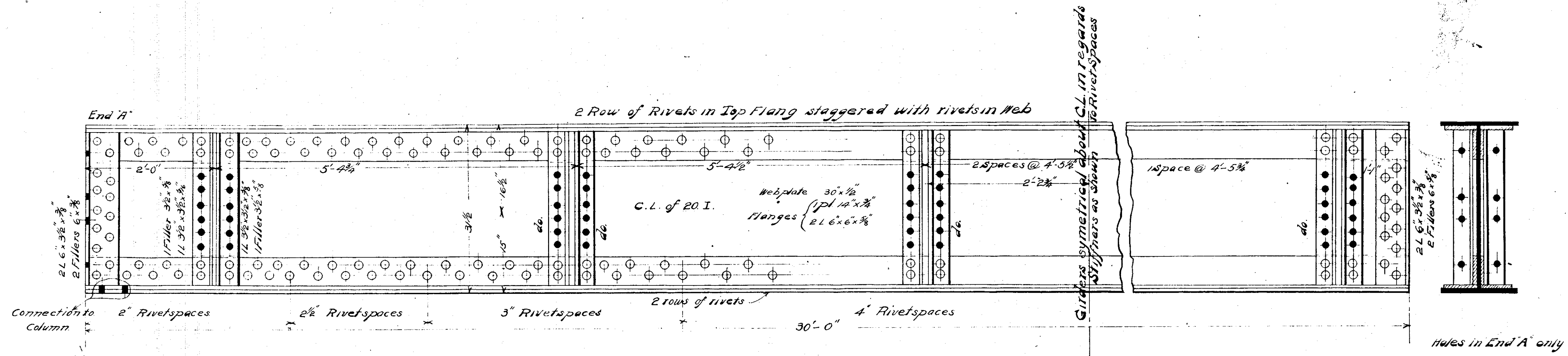
MATERIAL FOR S8-S13
 1-Web Plate 30"x5/16"
 2Ls 6"x3 1/2"x3/8"
 2Ls 3 1/2"x3 1/2"x3/8"
 4-STIF. Ls 3 1/2"x3 1/2"x3/8"x2'-5 1/4"
 4-FILLERS 3 1/2"x3 1/2"x1'-10 3/4"
 1-L 3 1/2"x3 1/2"x3/8"

NOTE - LENGTH OF SPANDREL TO BE DETERMINED.
 ACCORDING TO PLANS
 ALL RIVETS 3/4" DIA.

TYPICAL DETAILS OF SPANDRELS.

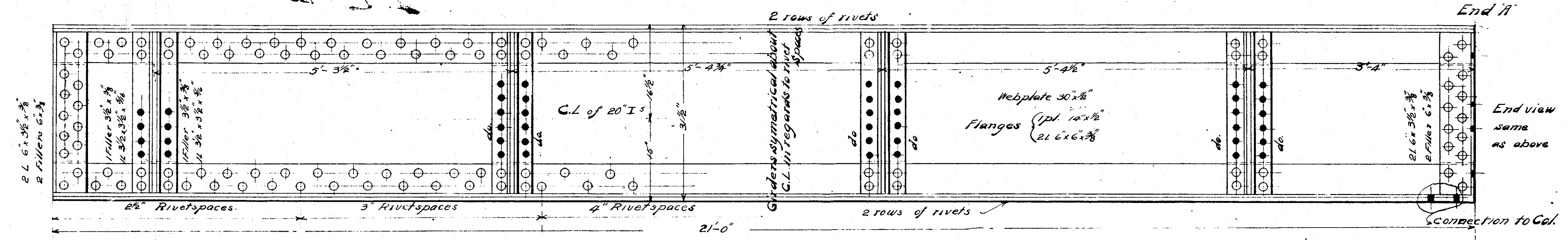
NOTE! Contractor to verify all dimensions.

STEEL WORK
 OF
THE MERCANTILE LIBRARY BLDG.
 CINCINNATI O.
 TO BE ERECTED BY,
T.MOS. EMERY'S SONS.
 Bert. L. Baldwin & Co. Engineers
 72-75 Perin Bldg. Cincinnati. O. **36-12**

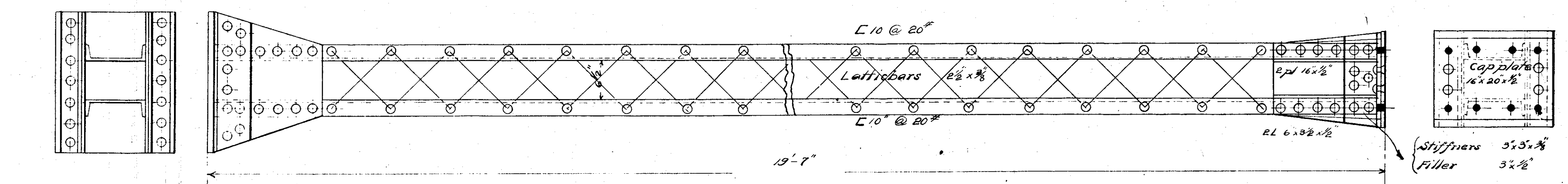


1 Girder G1

Note Rivets in Top Flang of Girder flattened
Rivets in Bottom Flang of Girder countersunk 2'-0" from end



1 Girder G2

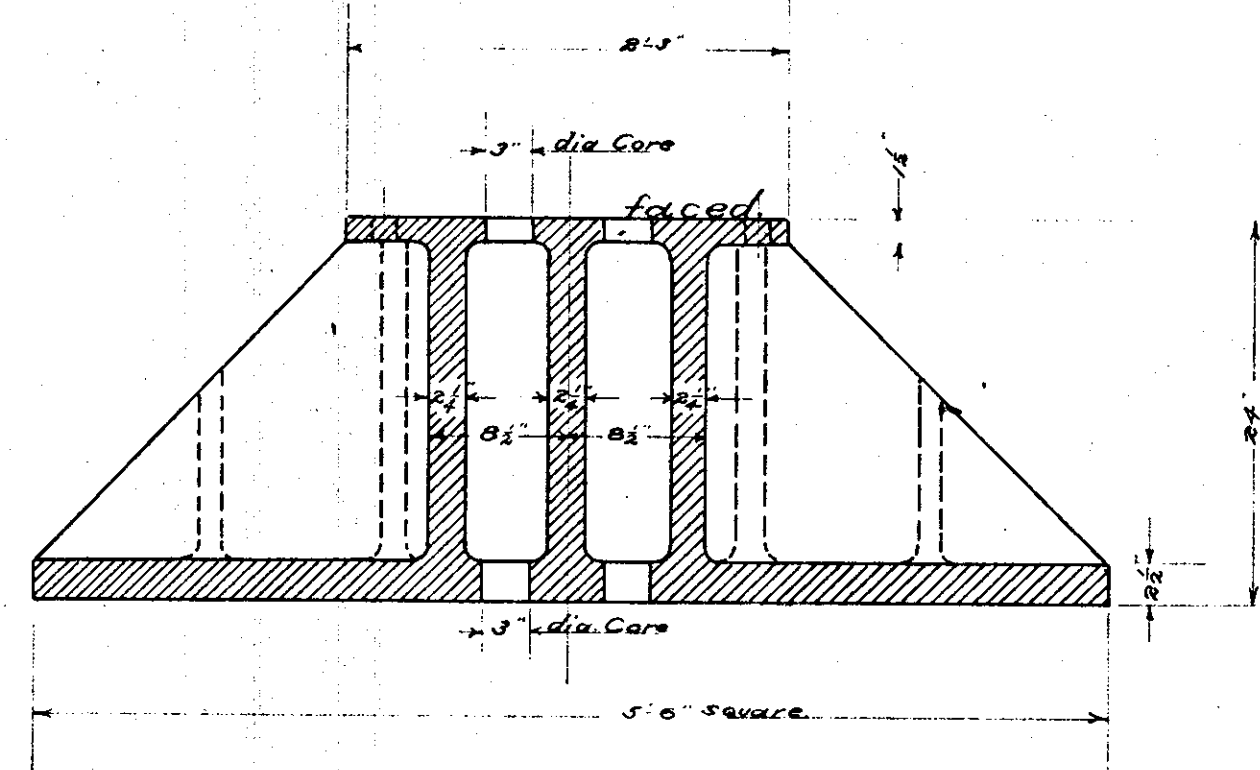
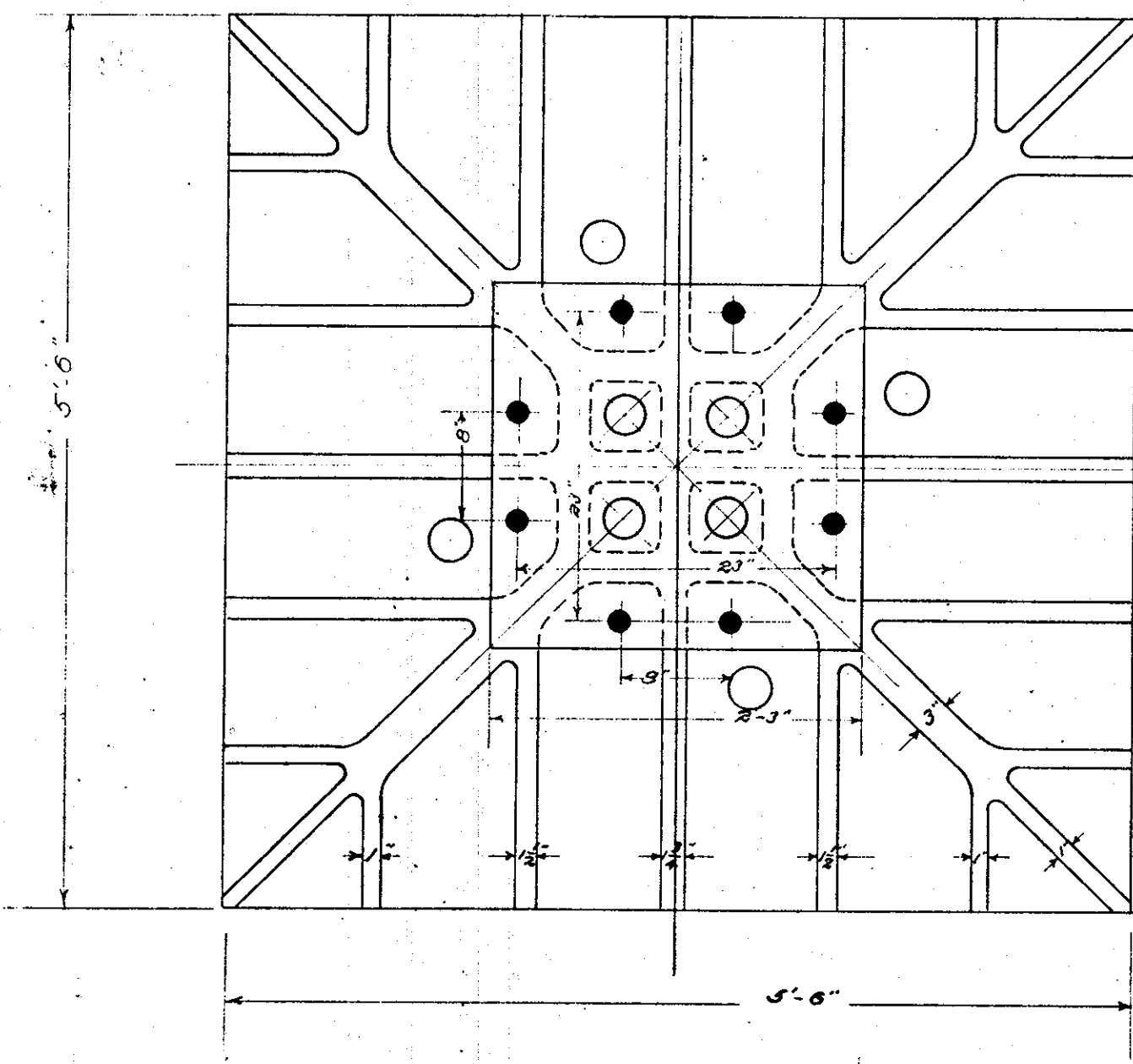


1 Column C35

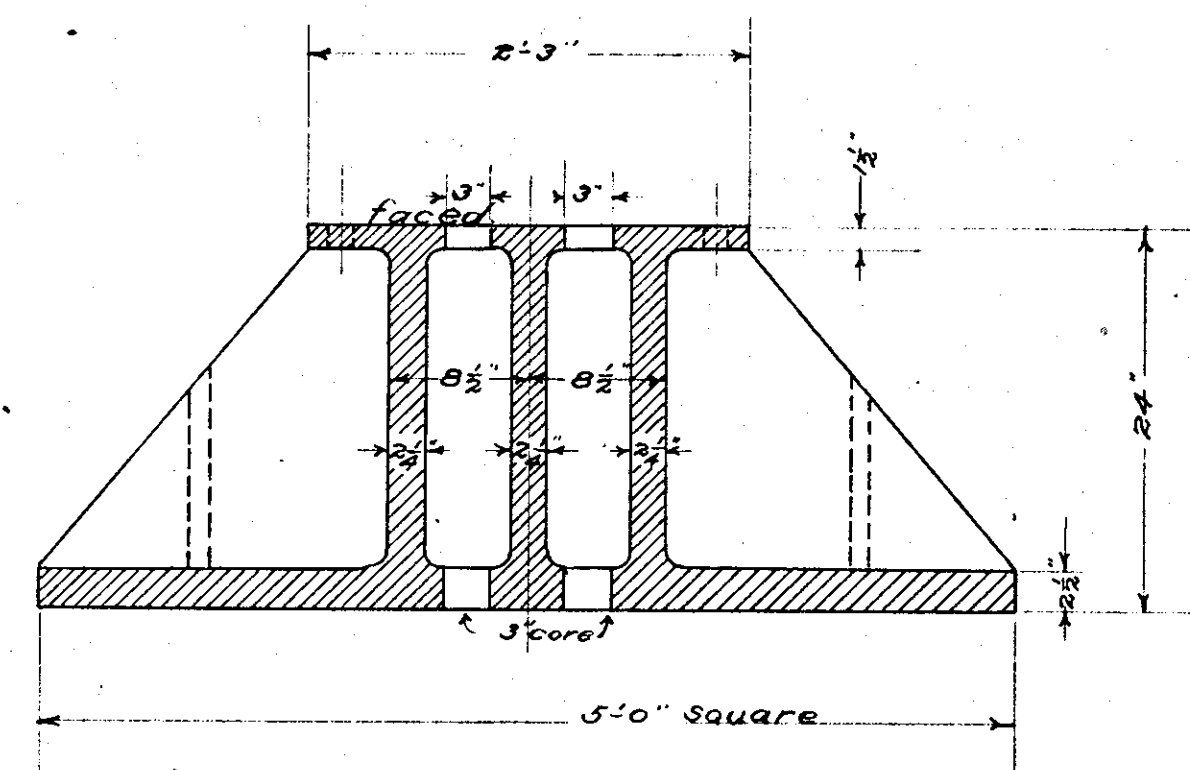
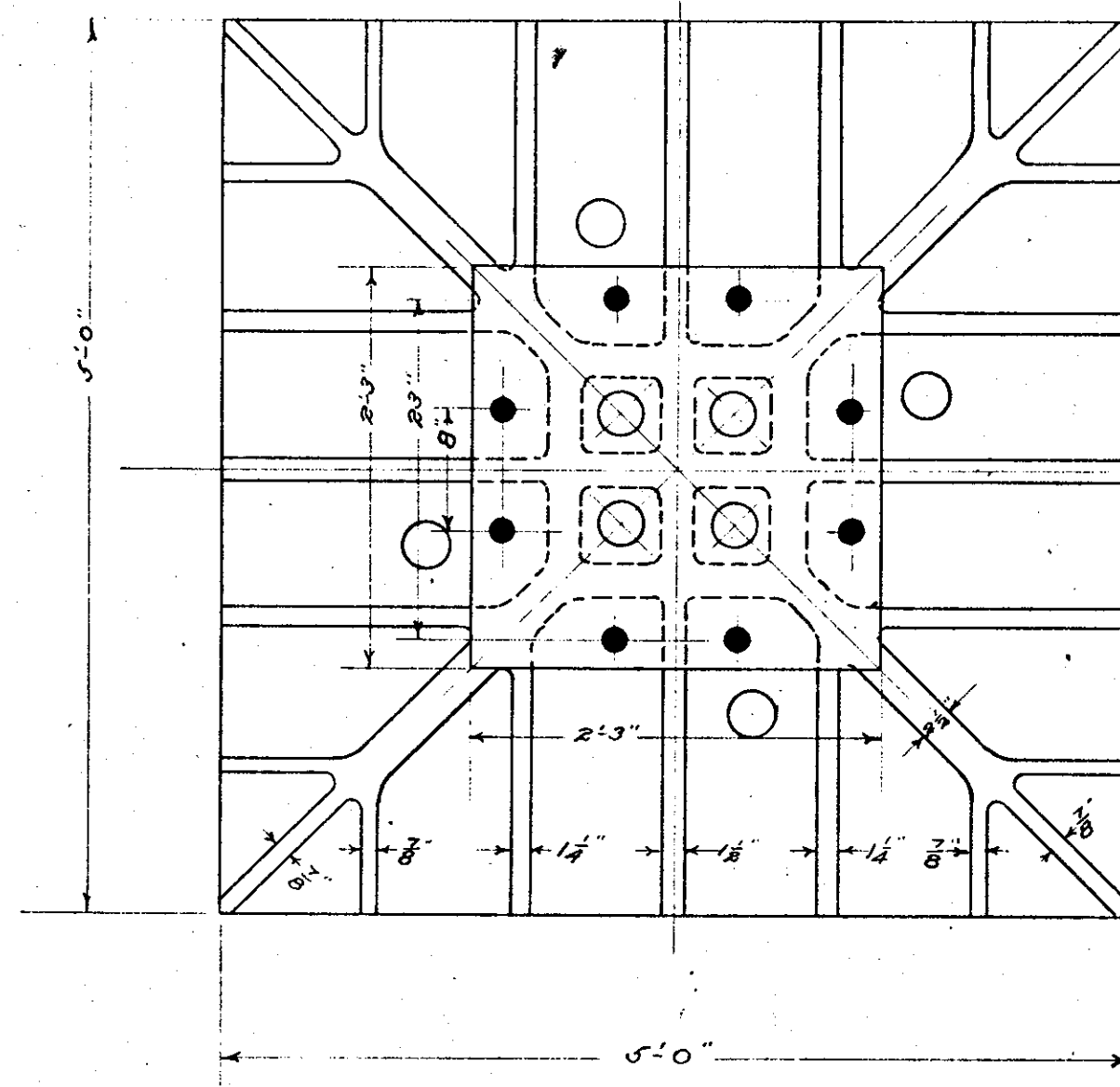
Base
Plate 20 x 24 x 1/2
2L 6 x 3 1/2 x 1/2 x 24
2pl 18 x 1/2 x 24

All Rivets 3/4 diam.
Contractor to verify all dimentions

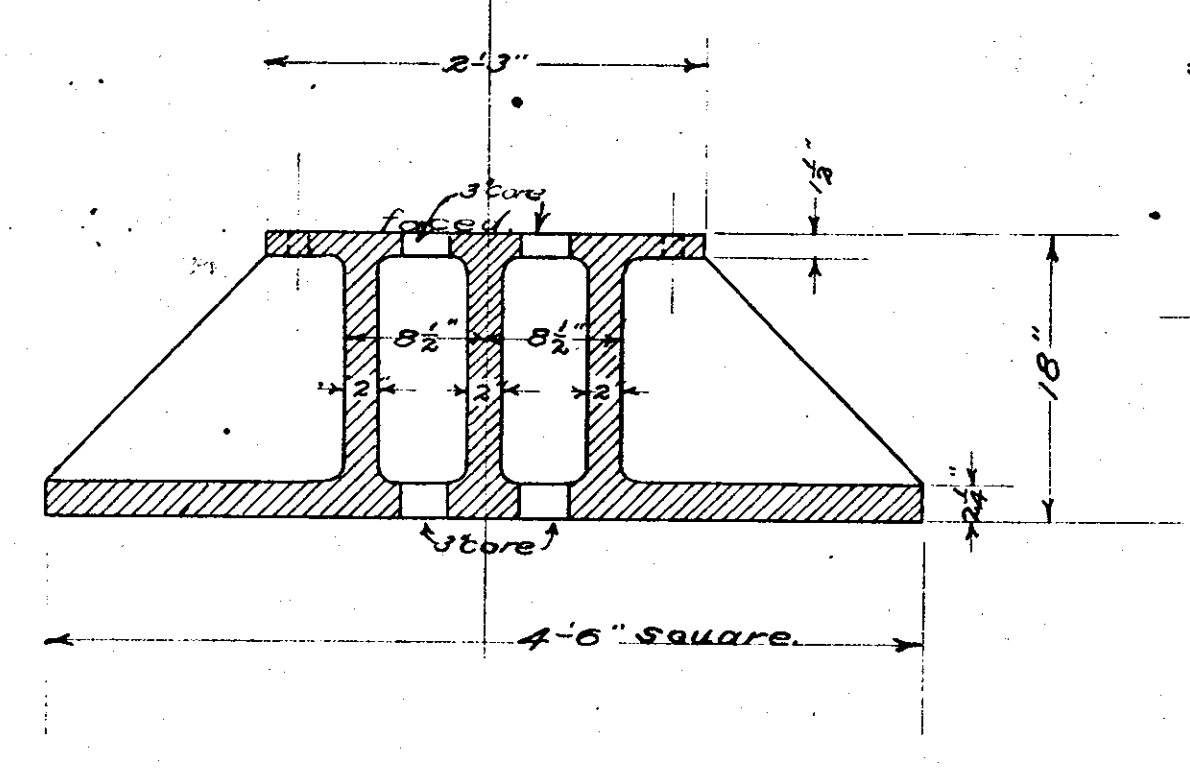
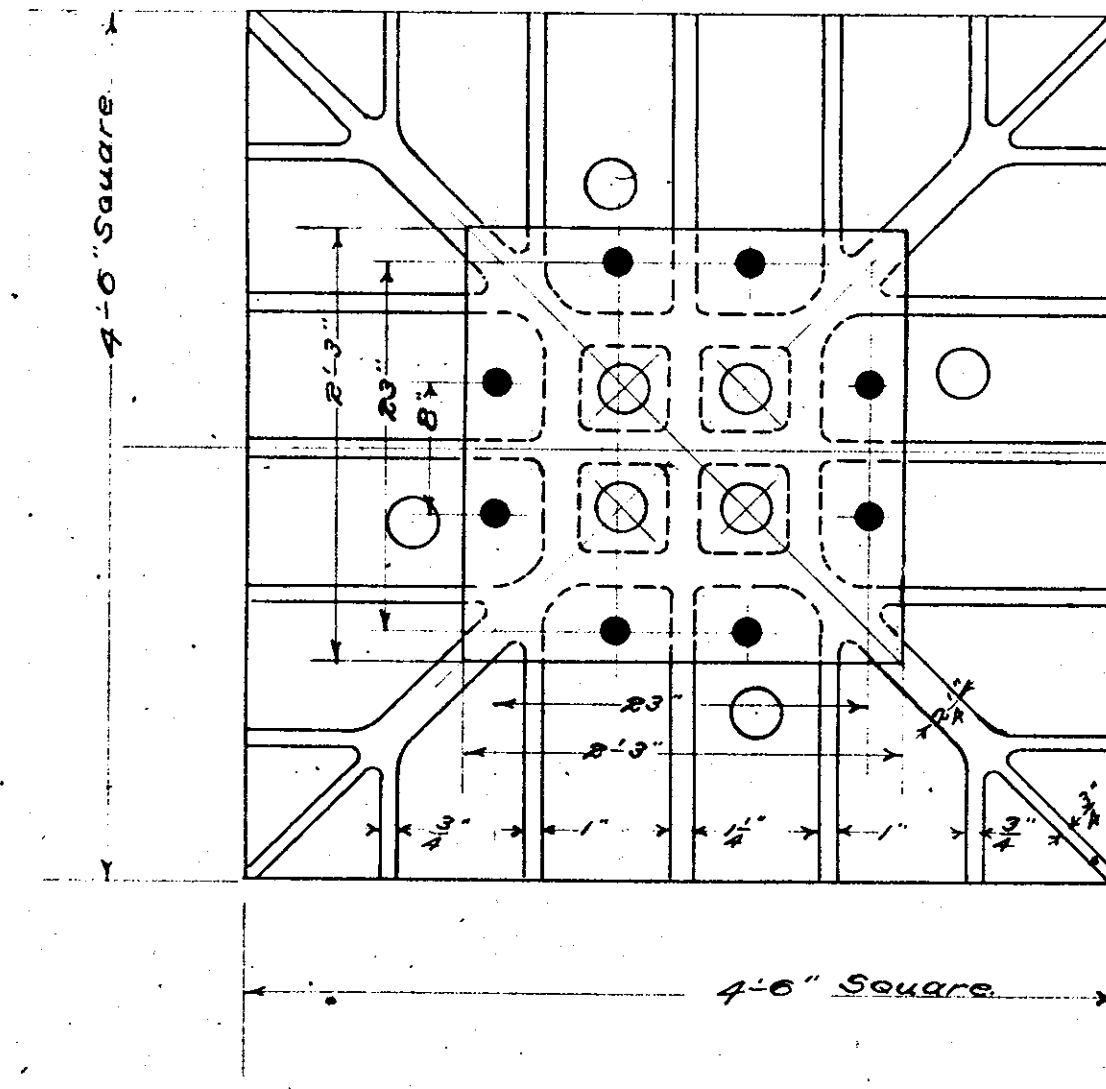
STEEL WORK
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CINCINNATI O
TO BE ERECTED BY
THOS. EMERY'S SONS
Berl L Baldwin & Co Engineers
72 73 Perin Bldg. Cincinnati O **36-13**



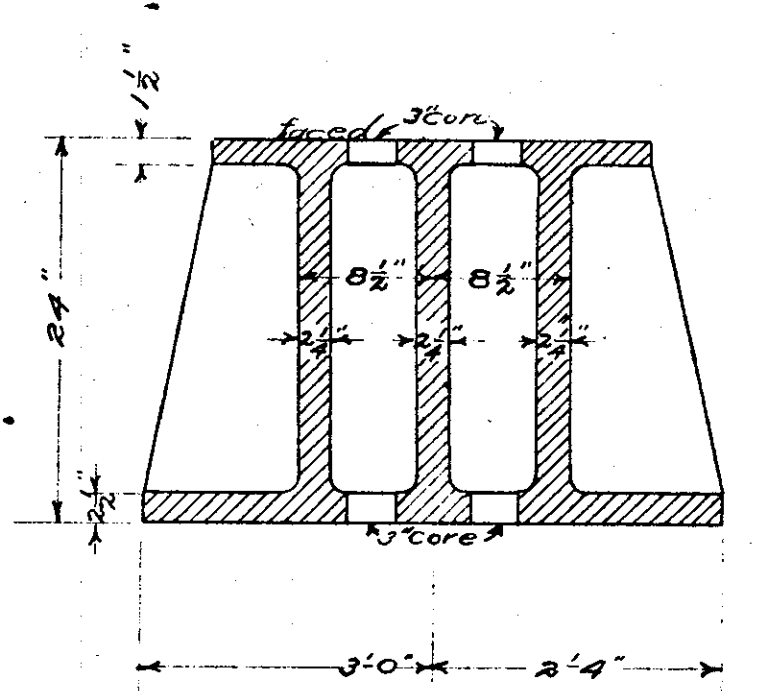
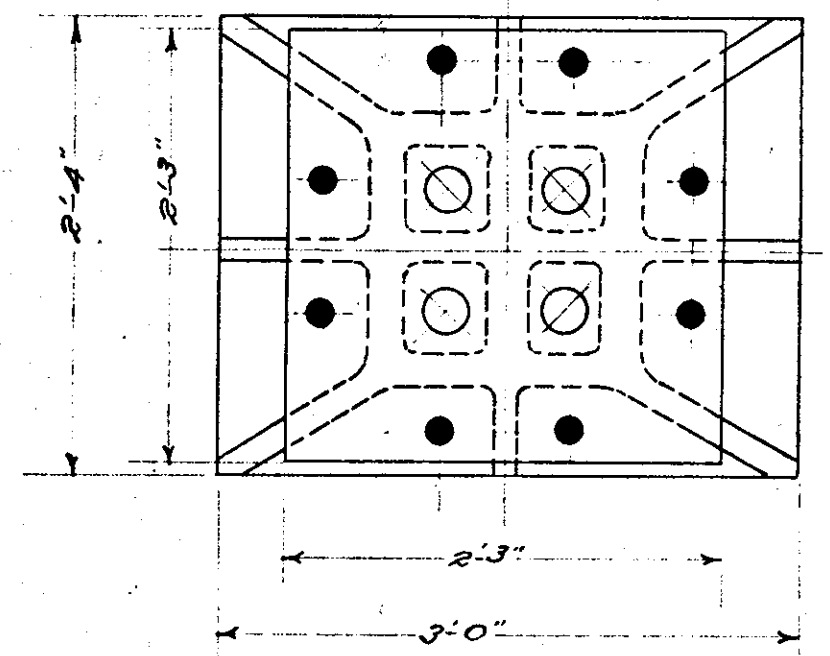
7 - Bases like this.
 cols No. 27-28-29-30-31-32-33.



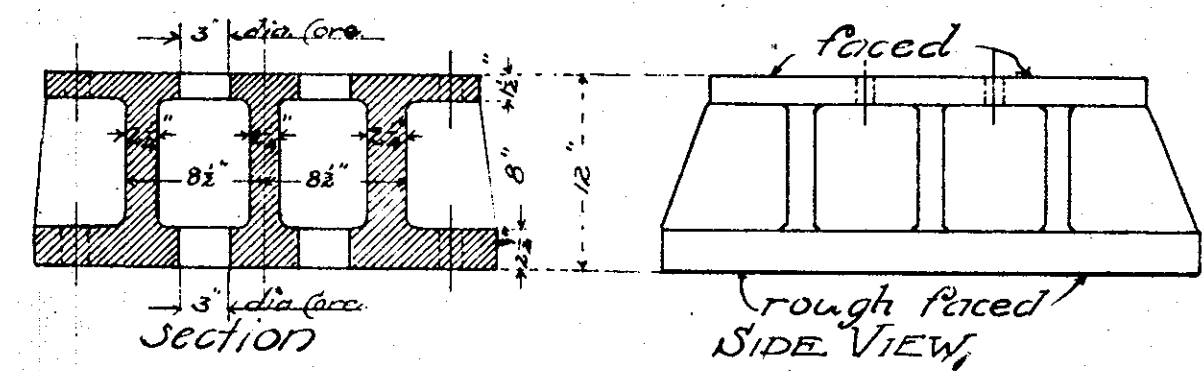
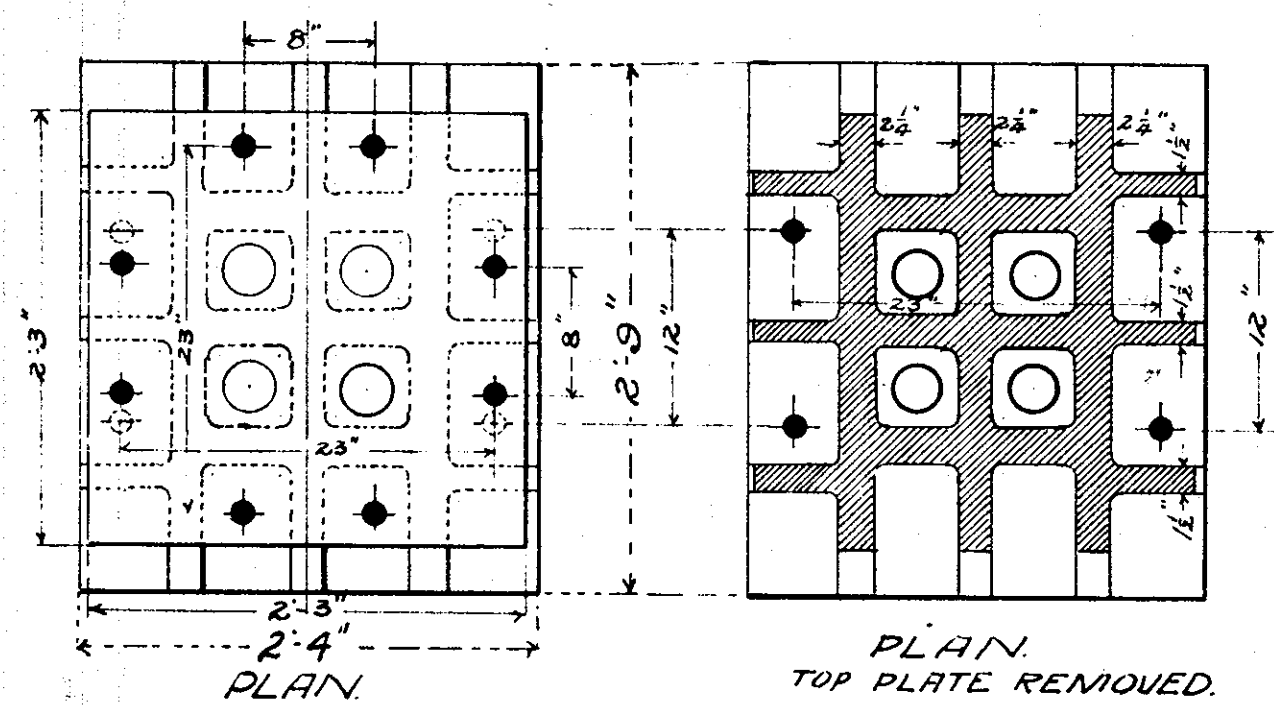
15 - Bases like this.
 Cols-3-6-7-8-9-10-11-12
 20-21-22-23-24-25-26



4 - Bases like this.
 Cols-No 1-2-4-5



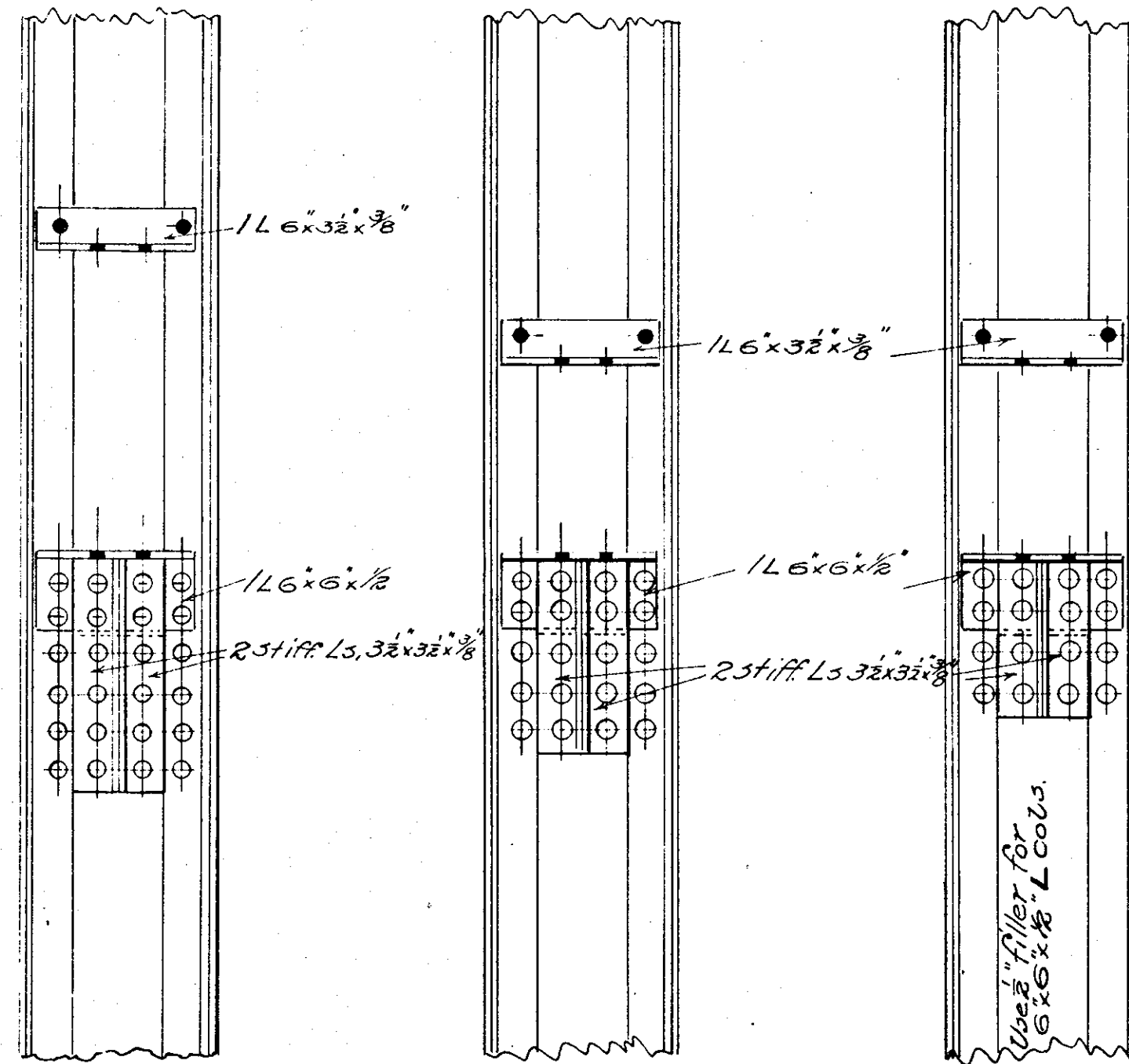
2 - Bases like this
 Cols-No-15-17.



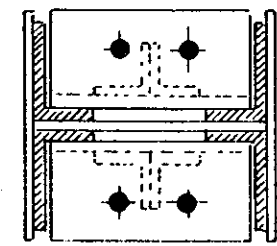
6 BASES LIKE THIS
 COLS. NO-13-14-16-18-19-34.

Note: All bolt holes in cast iron bases to be 1/4" core.

Cast Iron Bases for Columns
 OF
THE MERCANTILE LIBRARY BLDG.
CINCINNATI, O.
 TO BE ERECTED BY
THOS. EMERY'S SONS
 Bert L. Baldwin & Co. Engineers.
 72-73 Penn Bldg Cincinnati O



Beam Girder 24" I
1st Floor



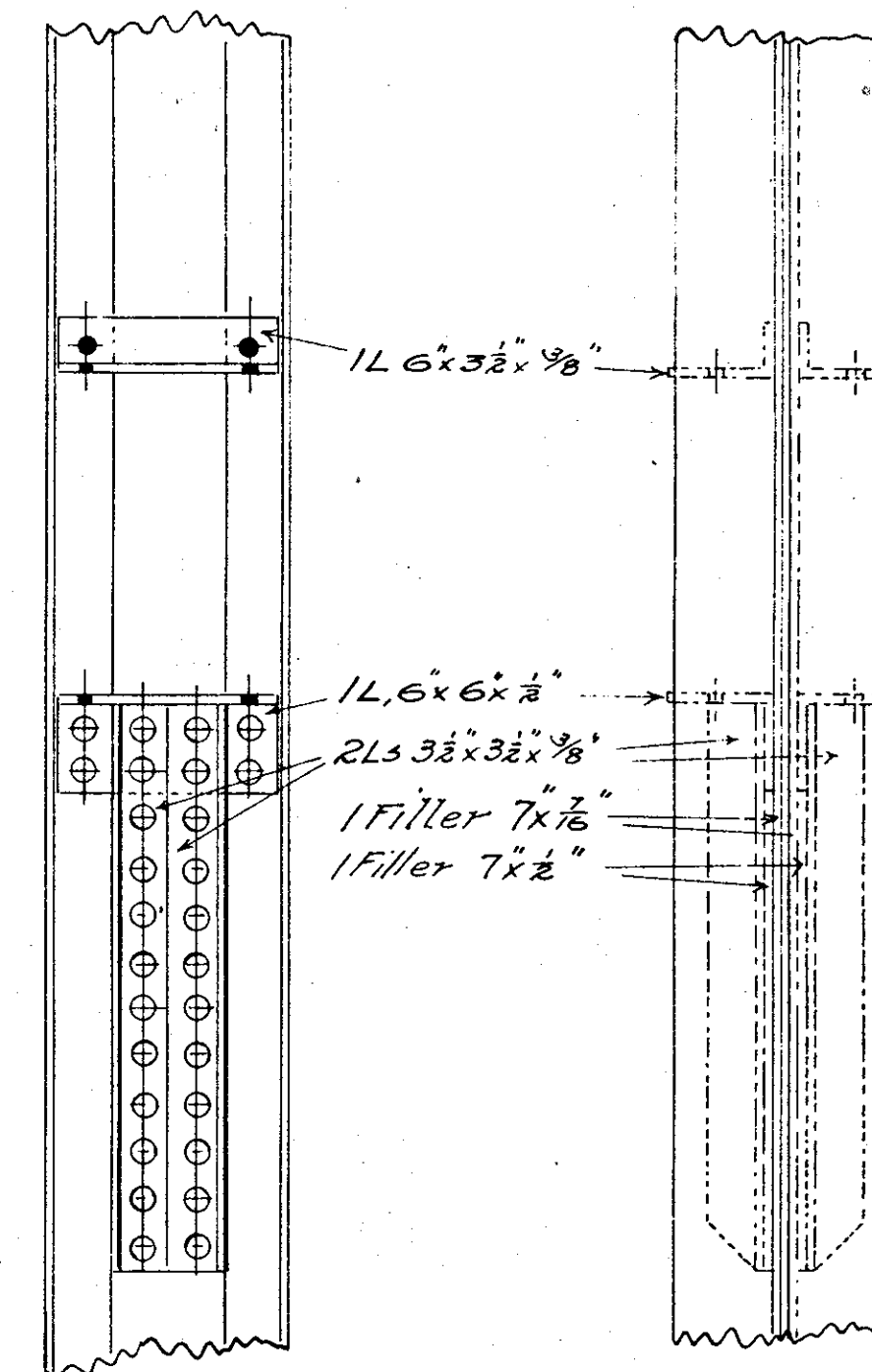
Beam Girder 15" I
2nd & 11th Floors

Section similar
For 24" I

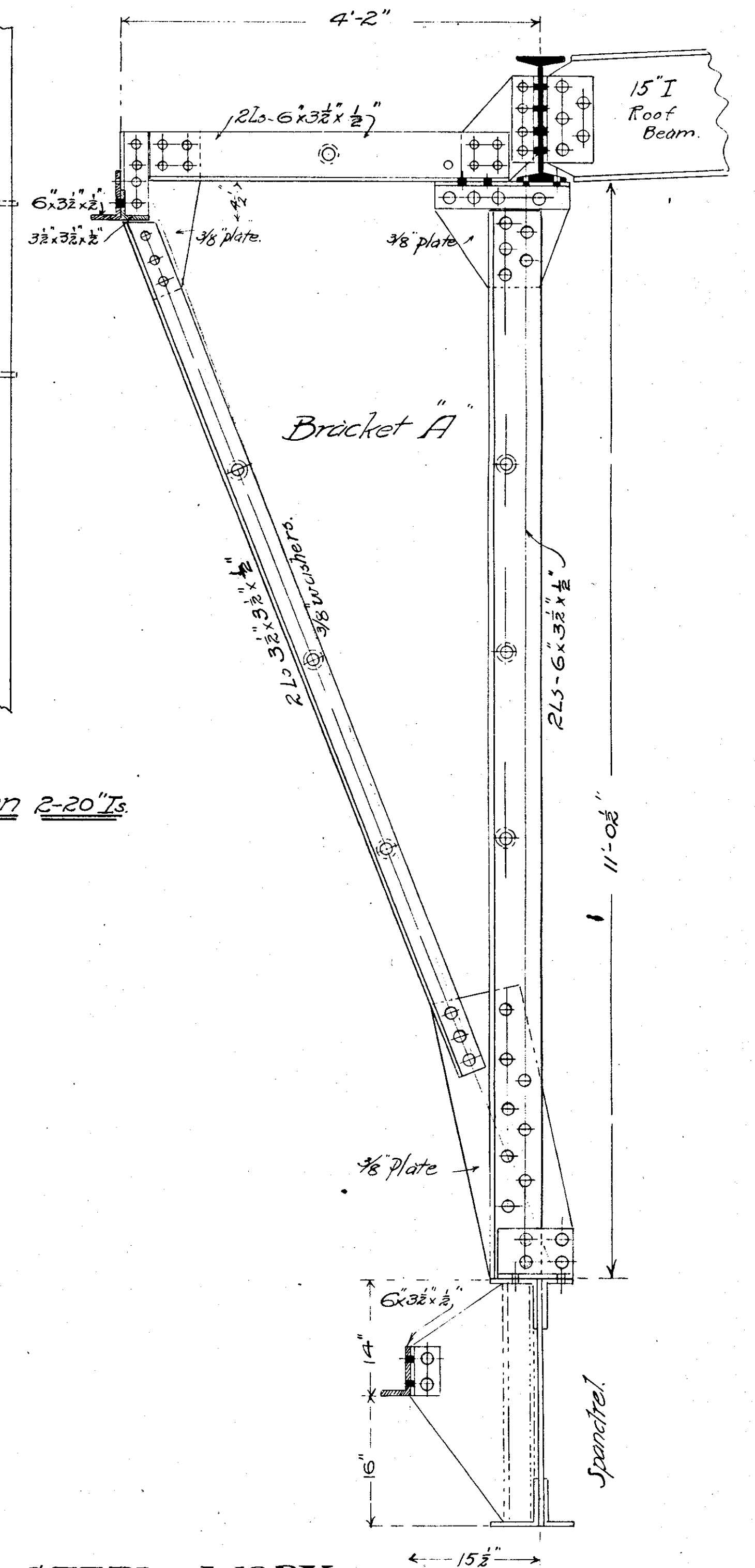
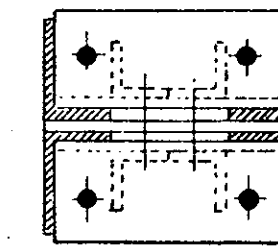
Typical Conn. of 15" I Girder

Section similar
For 24" I

Note: All rivets in Cols
up to 3rd tiers, to be 7/8" diam.
above 4th tiers to be 3/4" diam.

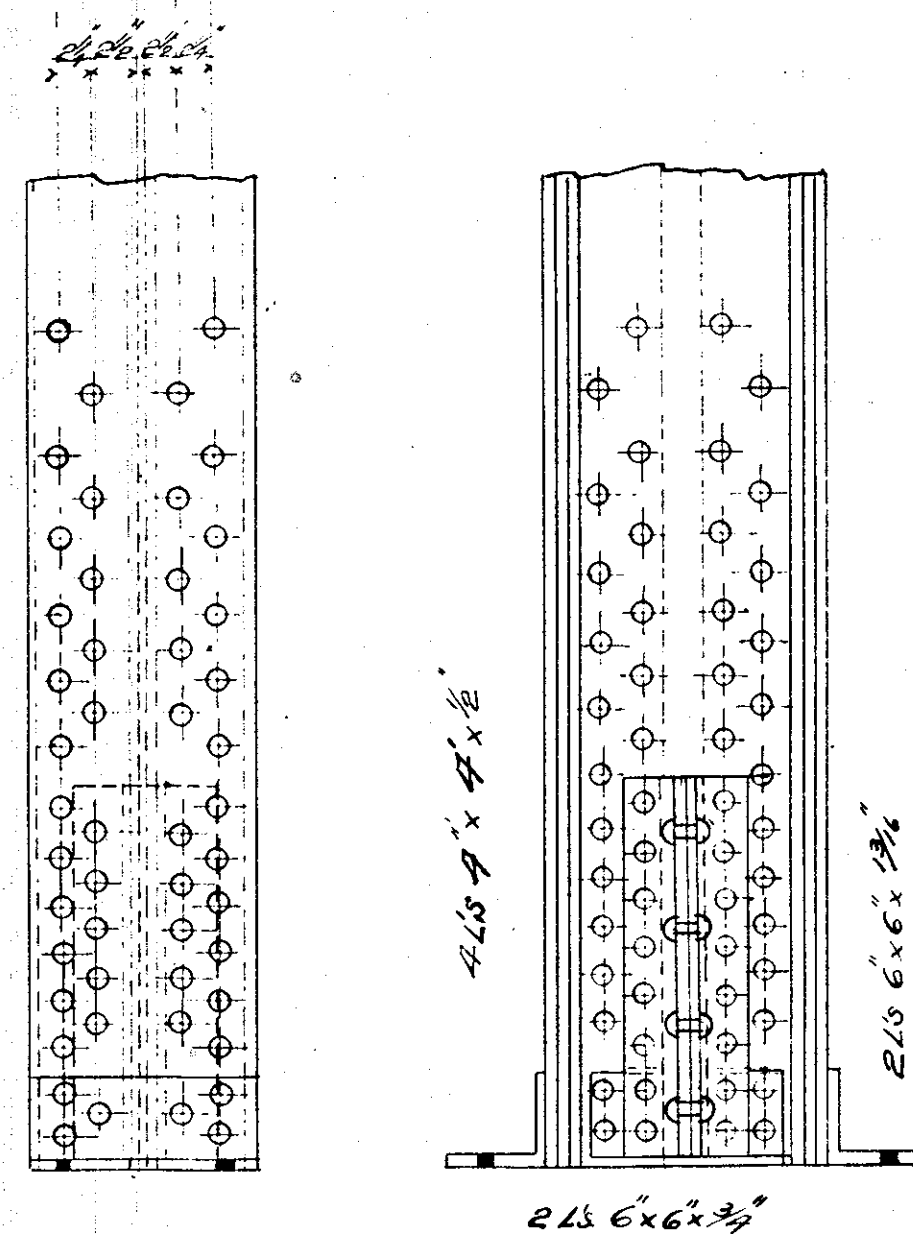


Beam Girder Conn 2-20" Is
Library Floor

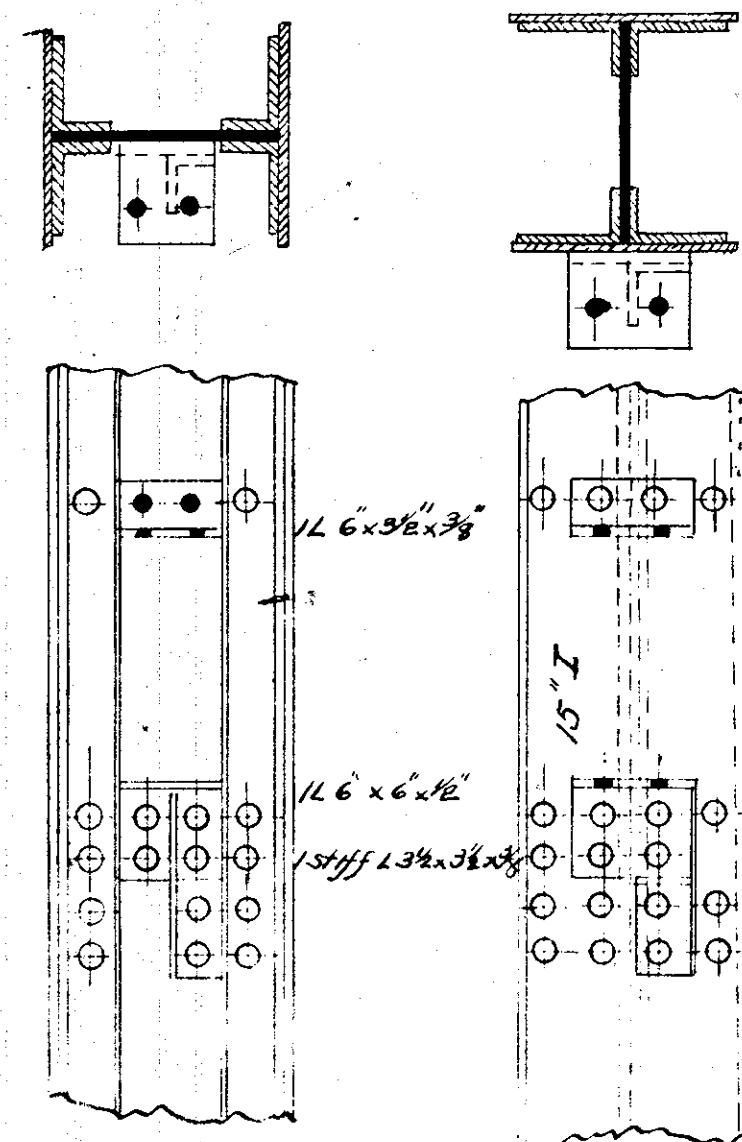


Typical Connection Details.

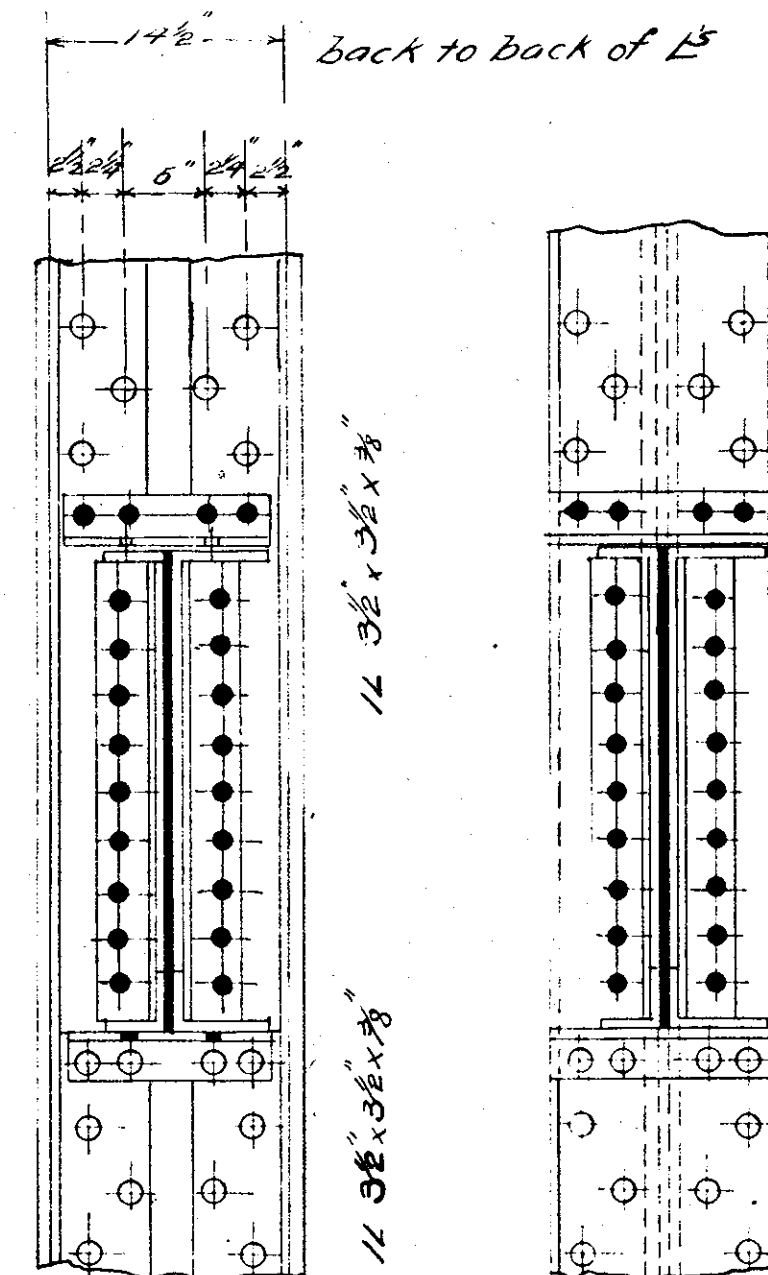
STEEL WORK
OF
THE MERCANTILE LIBRARY BLDG
CINCINNATI O.
to be erected by
Thos. Emerys Sons.
Bert. L. Baldwin & Co, Engineers.
72-73 Perin Bldg. Cincinnati O.



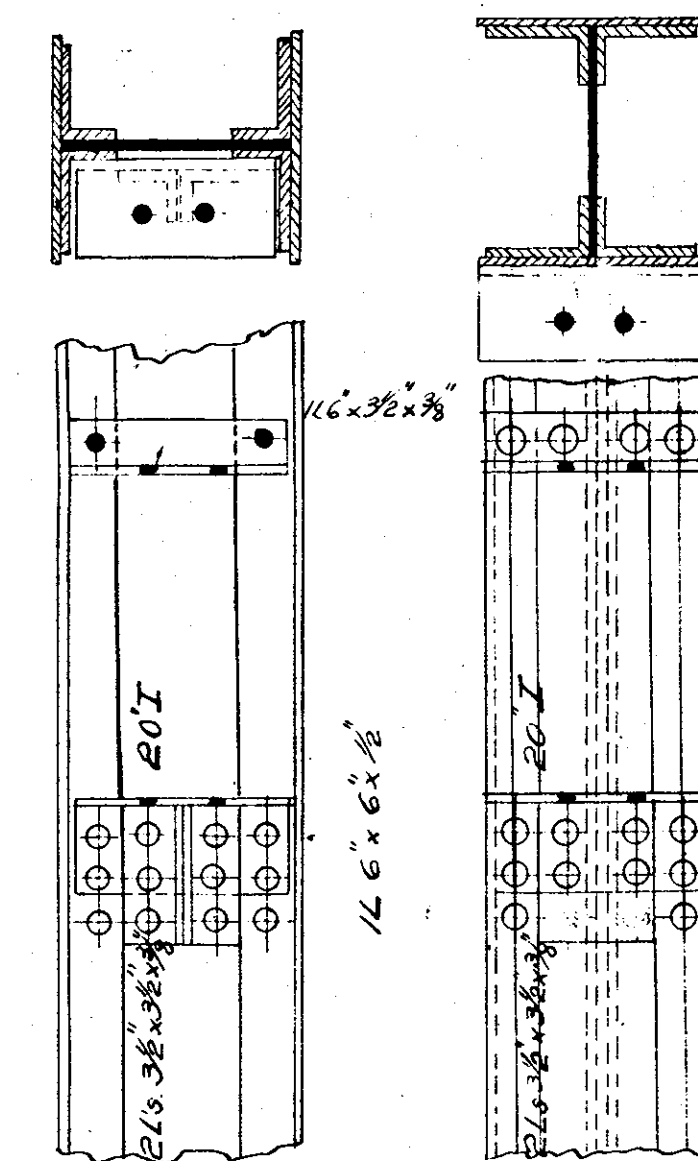
Typical Column Base.



Typical Floor Connection.

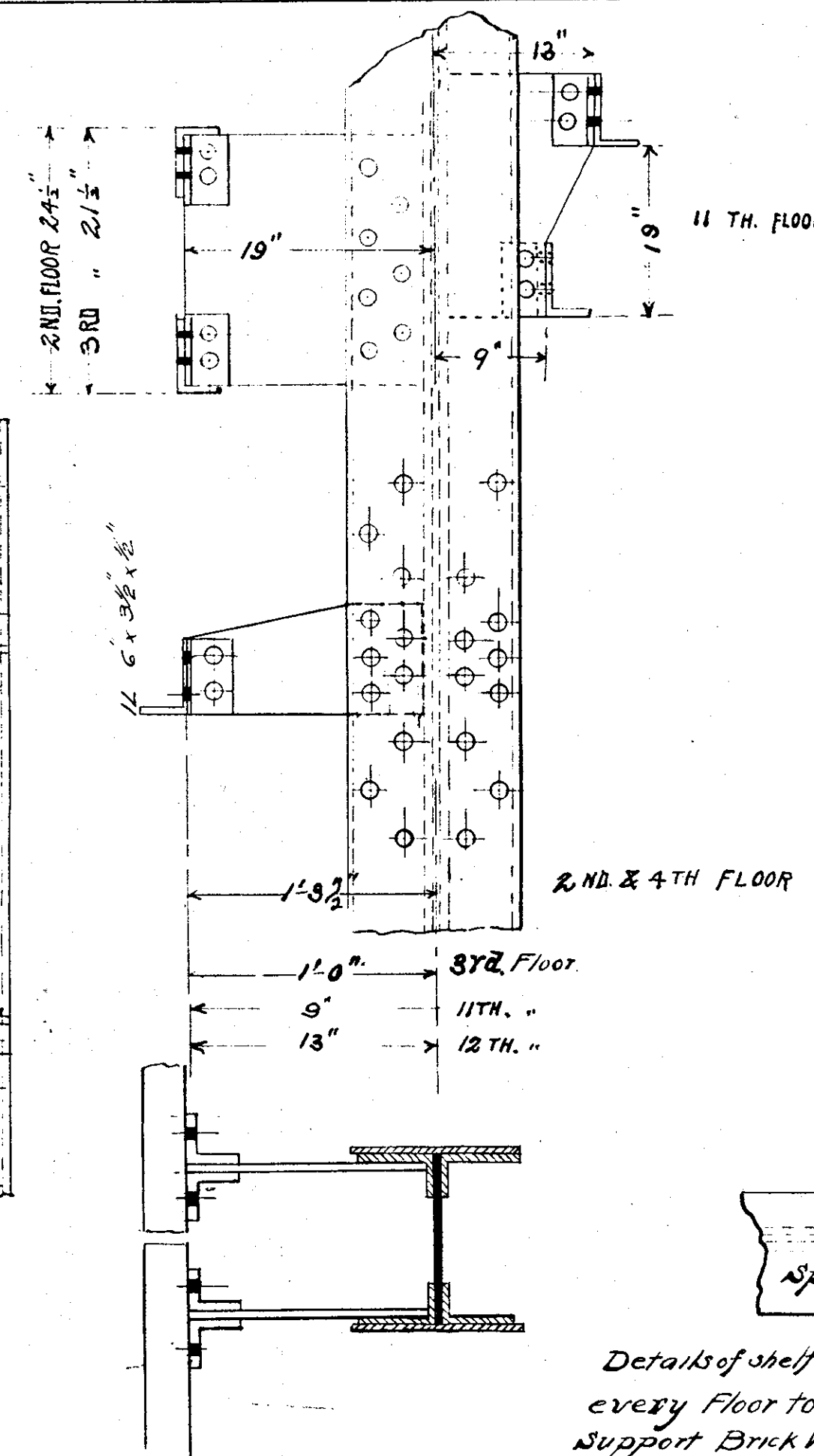


Typical Spandrel Connection.



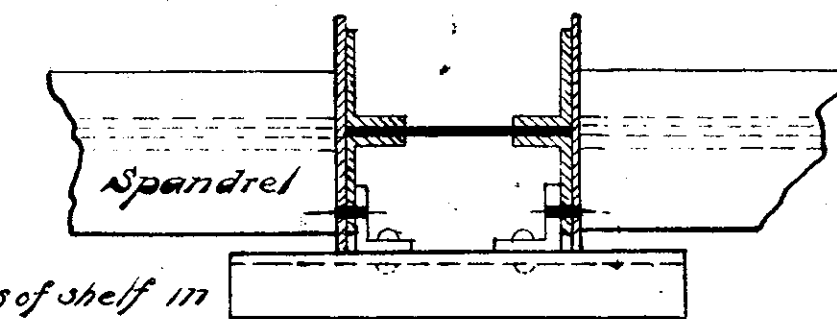
Typical Floor Beam Connection 1st & 11th (in Library)

Typical Column Connections



Typical Connection of Girder Angle.

Typical Connection of Girt Angle at Corner.



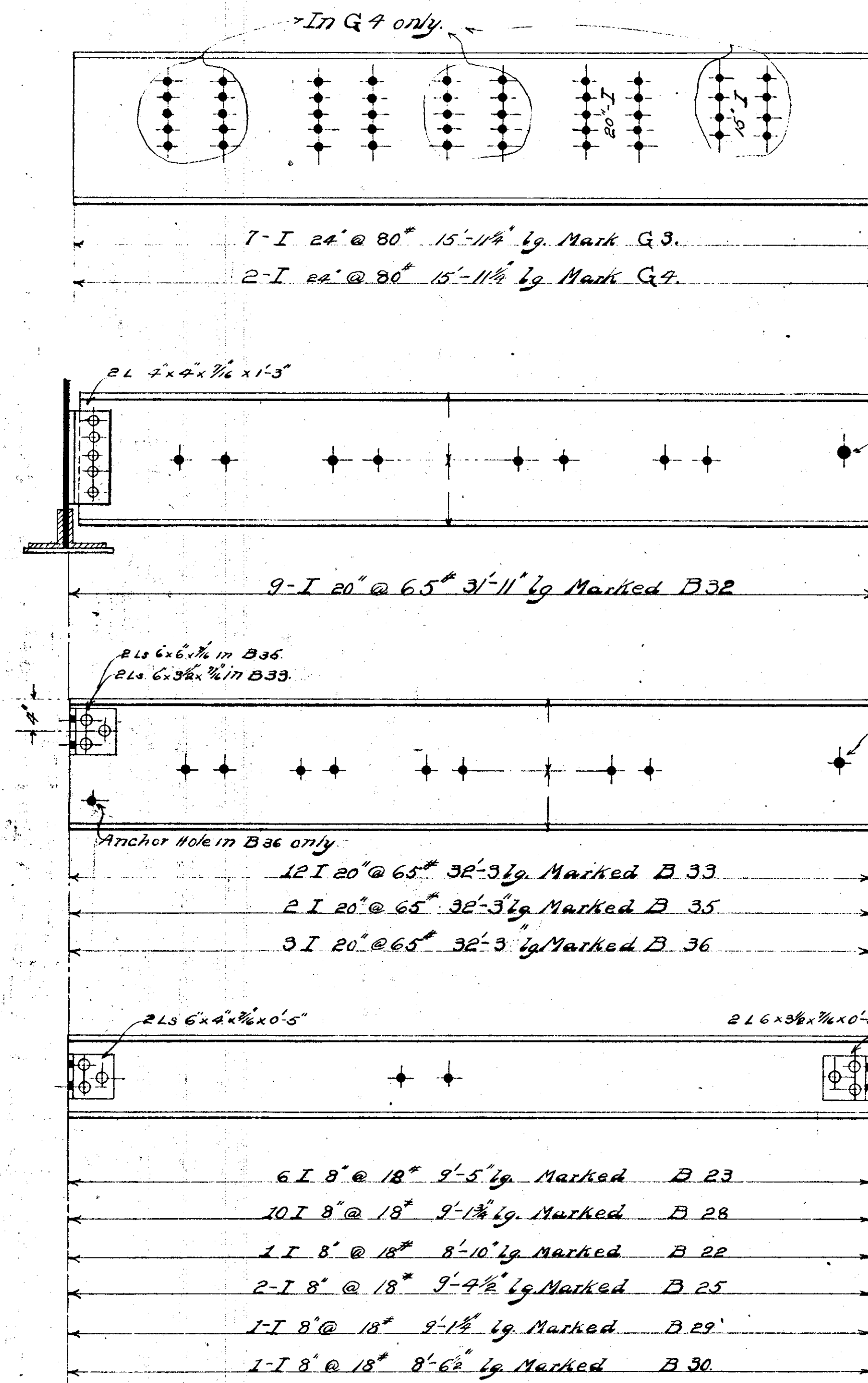
Details of shelf in every floor to support Brick Work.

Typical Connection for Mullions.

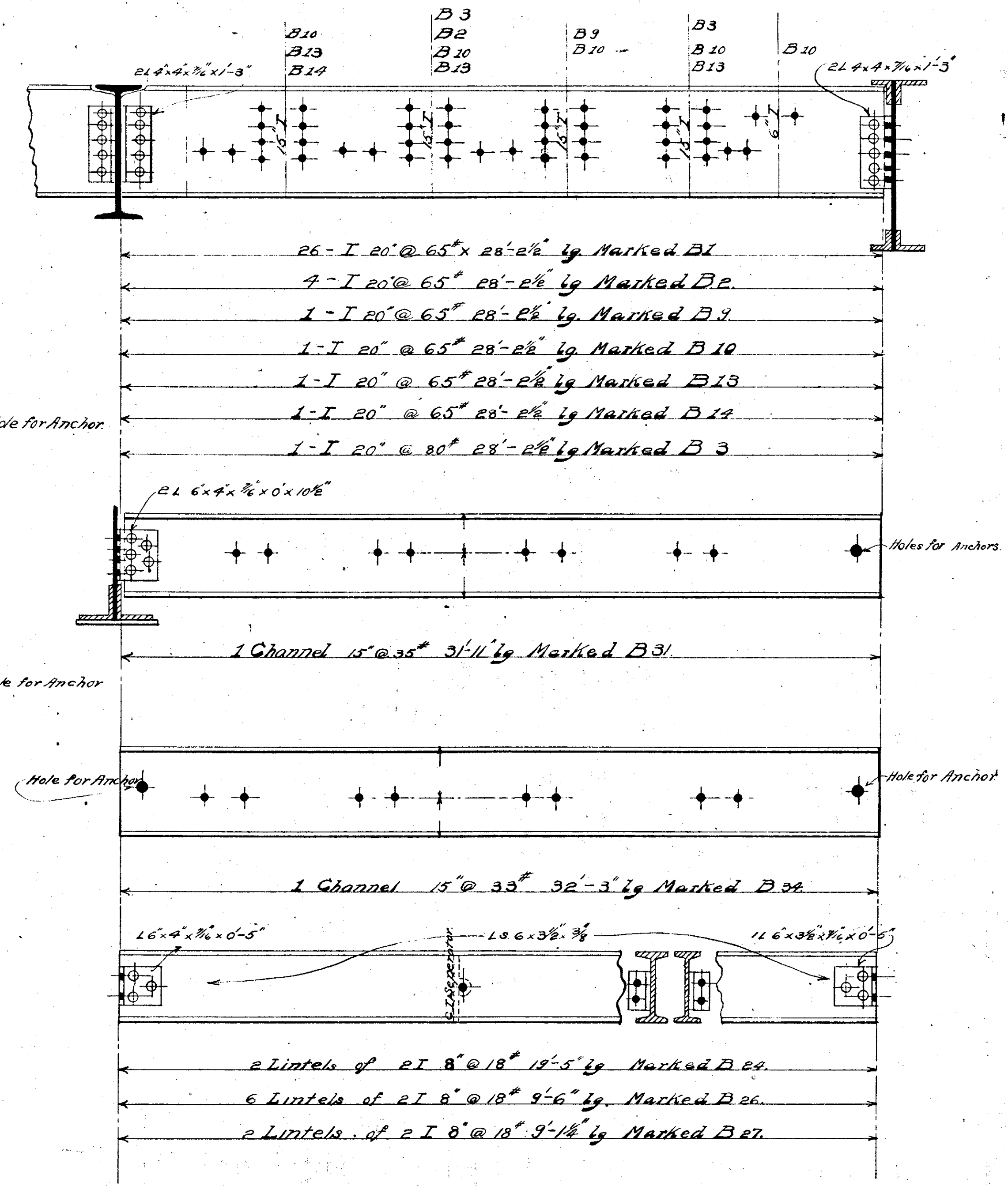
Note: All rivets in Cols. up to 3rd Tiers to be 3/4" Diam. Above 4th Tiers 5/8" Diam.

STEEL WORK OF THE MERCANTILE LIBRARY BLDG. CINCINNATI O

TO BE ERCTED BY T.MOS. EMERY'S SONS Bert. L. Baldwin & Co Engineers. 72-73 Penn Bldg. Cincinnati, O

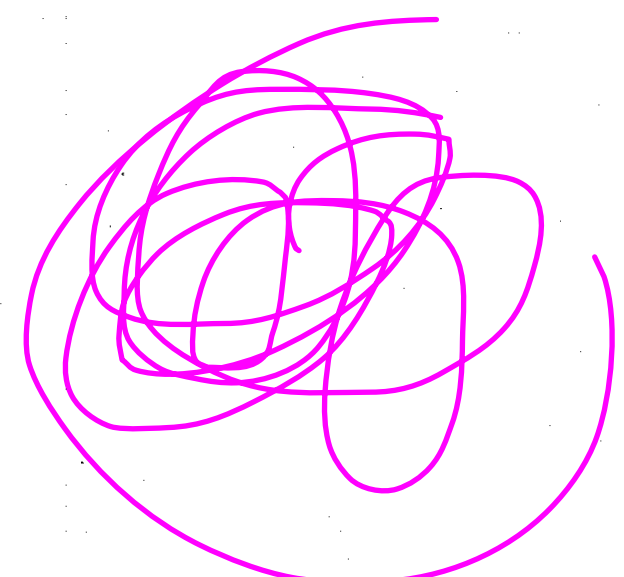
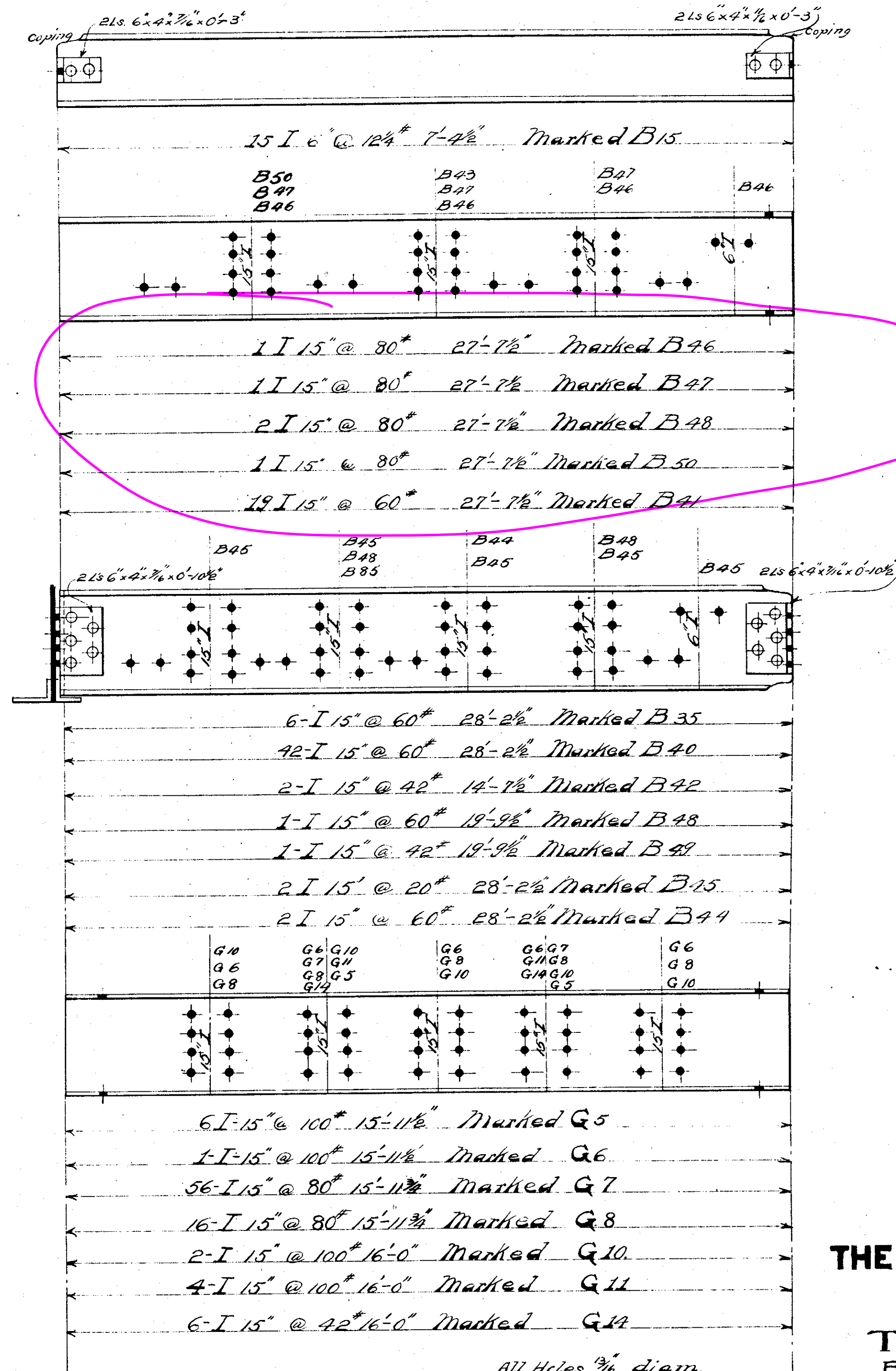
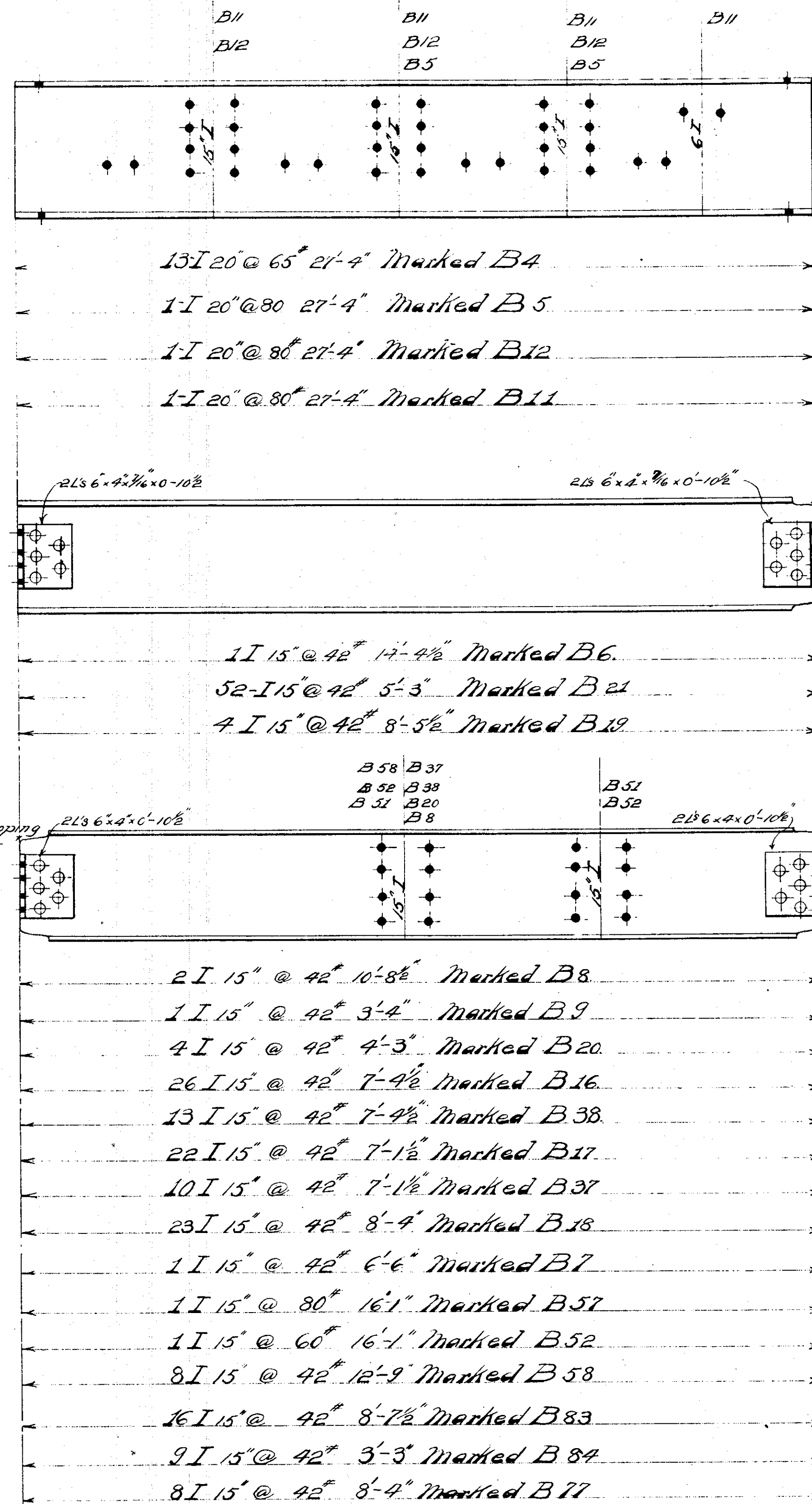


All Holes 1/2" diam.
 All Rivets 3/8" diam.
 Contractor to verify all dimensions



Detail

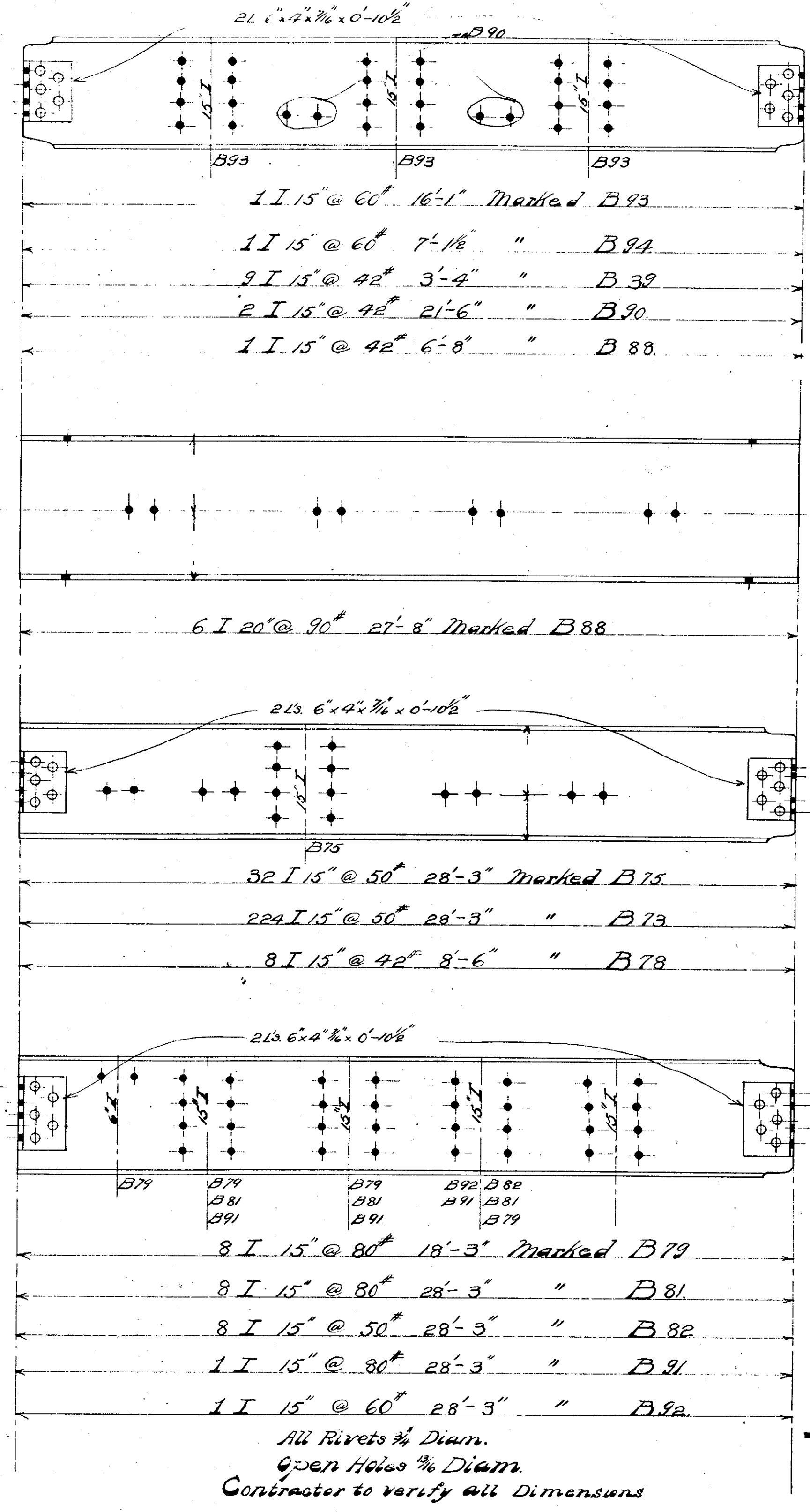
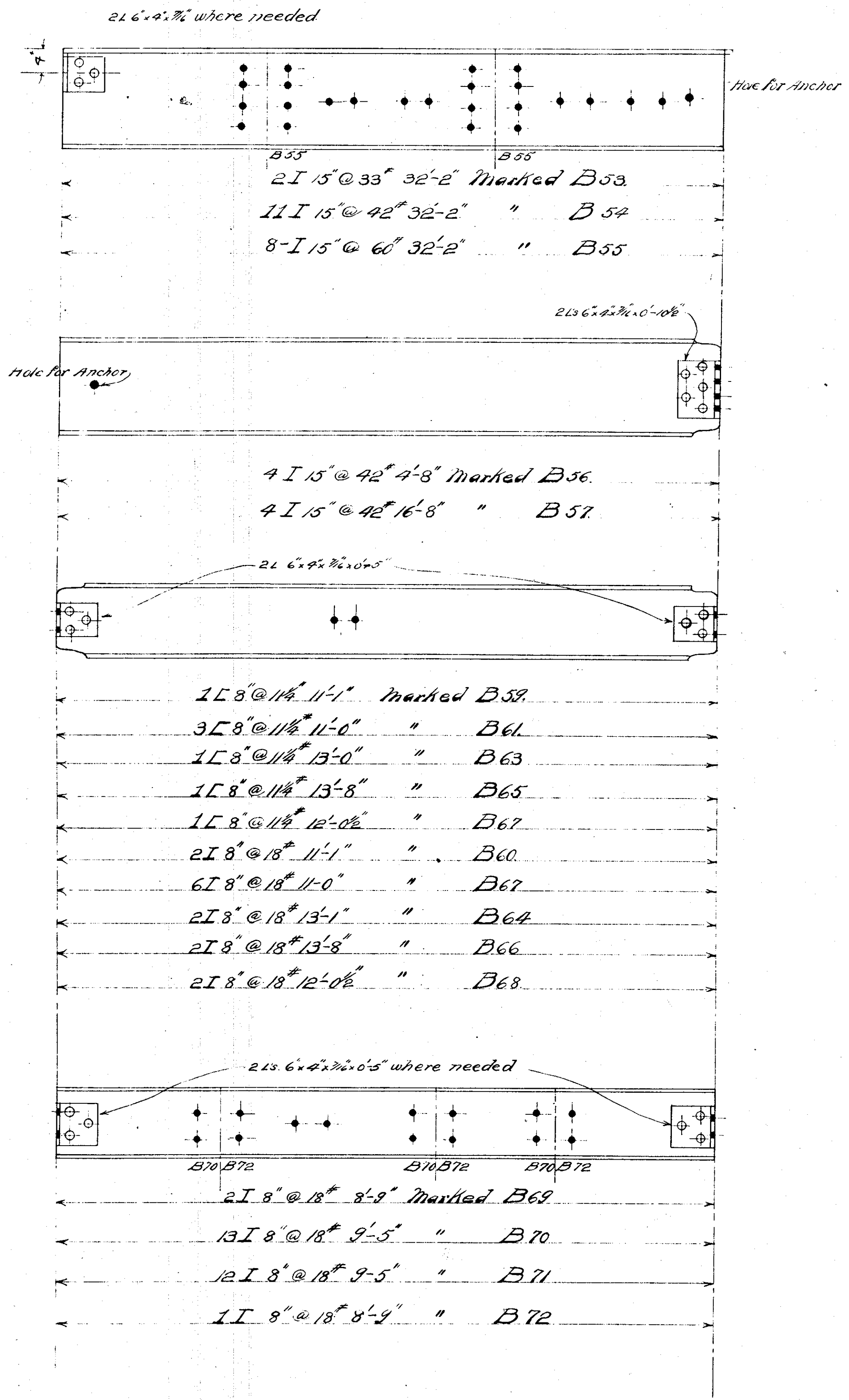
STEEL WORK
 OF
THE MERCANTILE LIBRARY BLDG
 CINCINNATI O
 TO BE ERECTED BY
THOS. EMERY'S SONS
 Bert L Baldwin & Co. Engineers
 72-73 Perin Bldg Cincinnati, O. **36-18**



Detail

All Holes 3/8" diam.
 All Rivets 3/4" diam.
 Contractor to verify all Dimensions

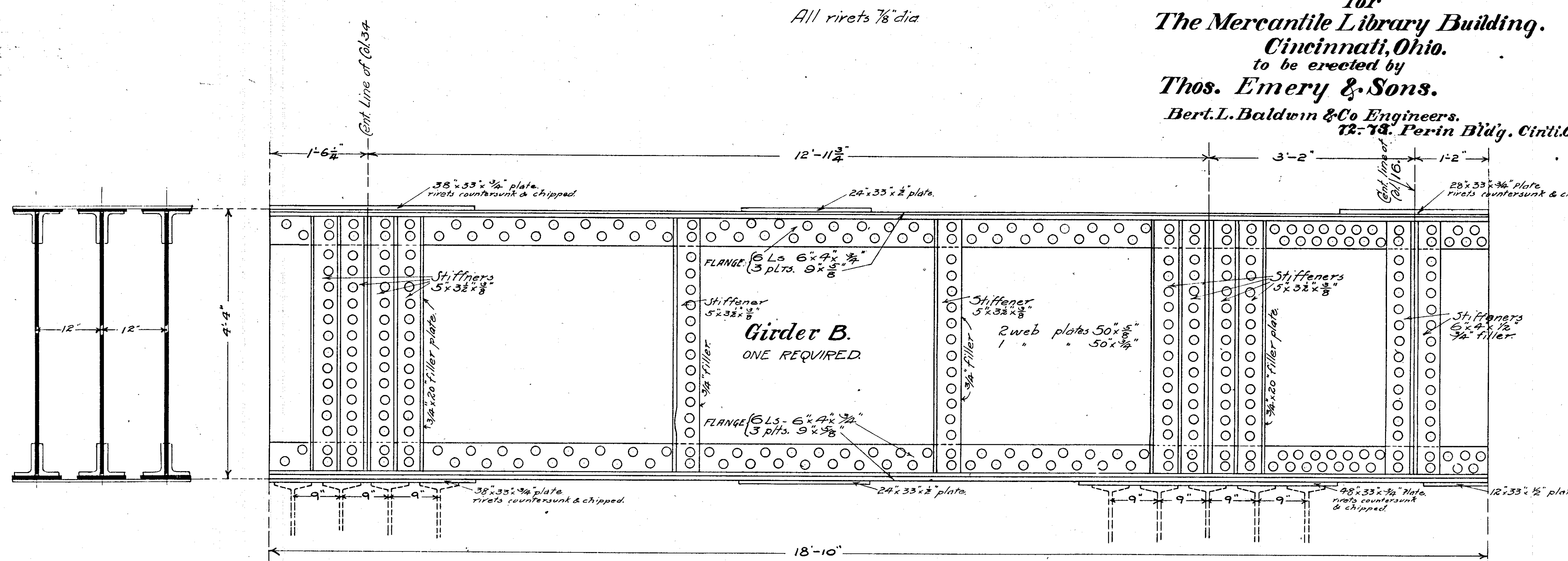
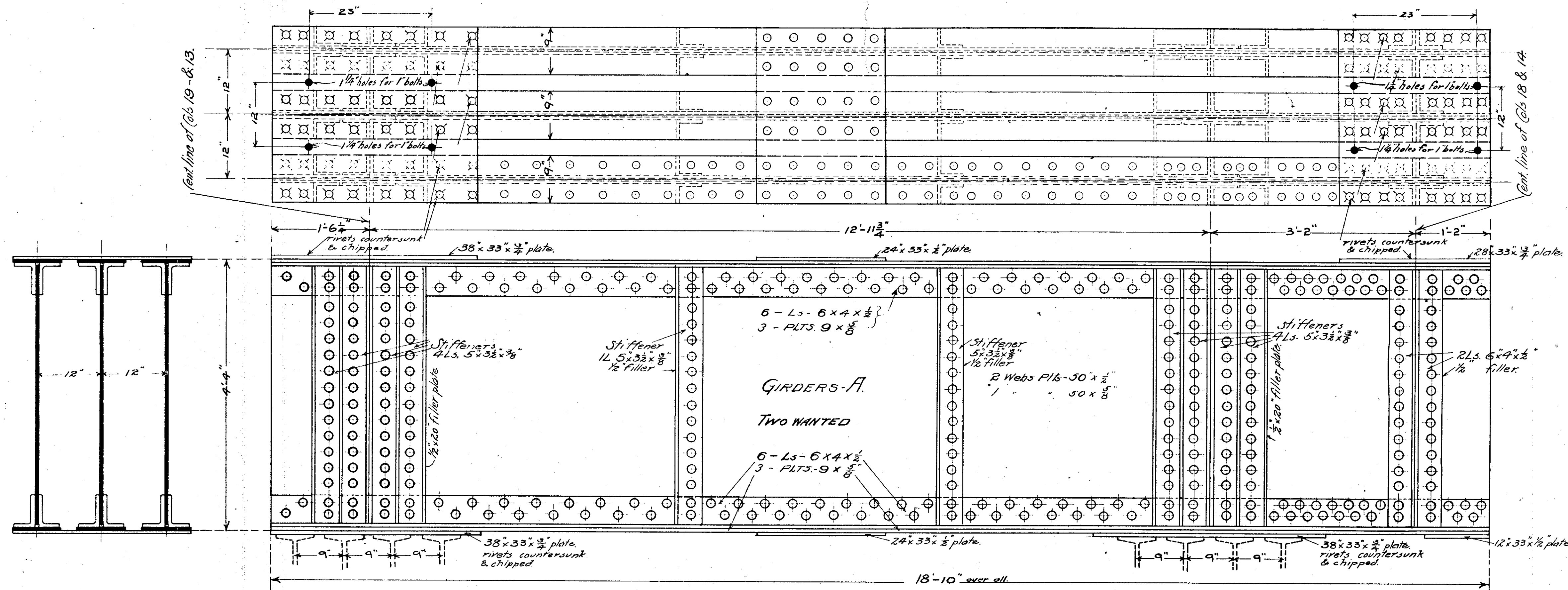
STEEL WORK
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THE MERCANTILE LIBRARY BLDG.
CINCINNATI O.
 TO BE ERECTED BY
THOS. EMERY'S SONS
 Bert. L. Baldwin & Co. Engineers.
 72-73 Perin Bldg. Cincinnati O.



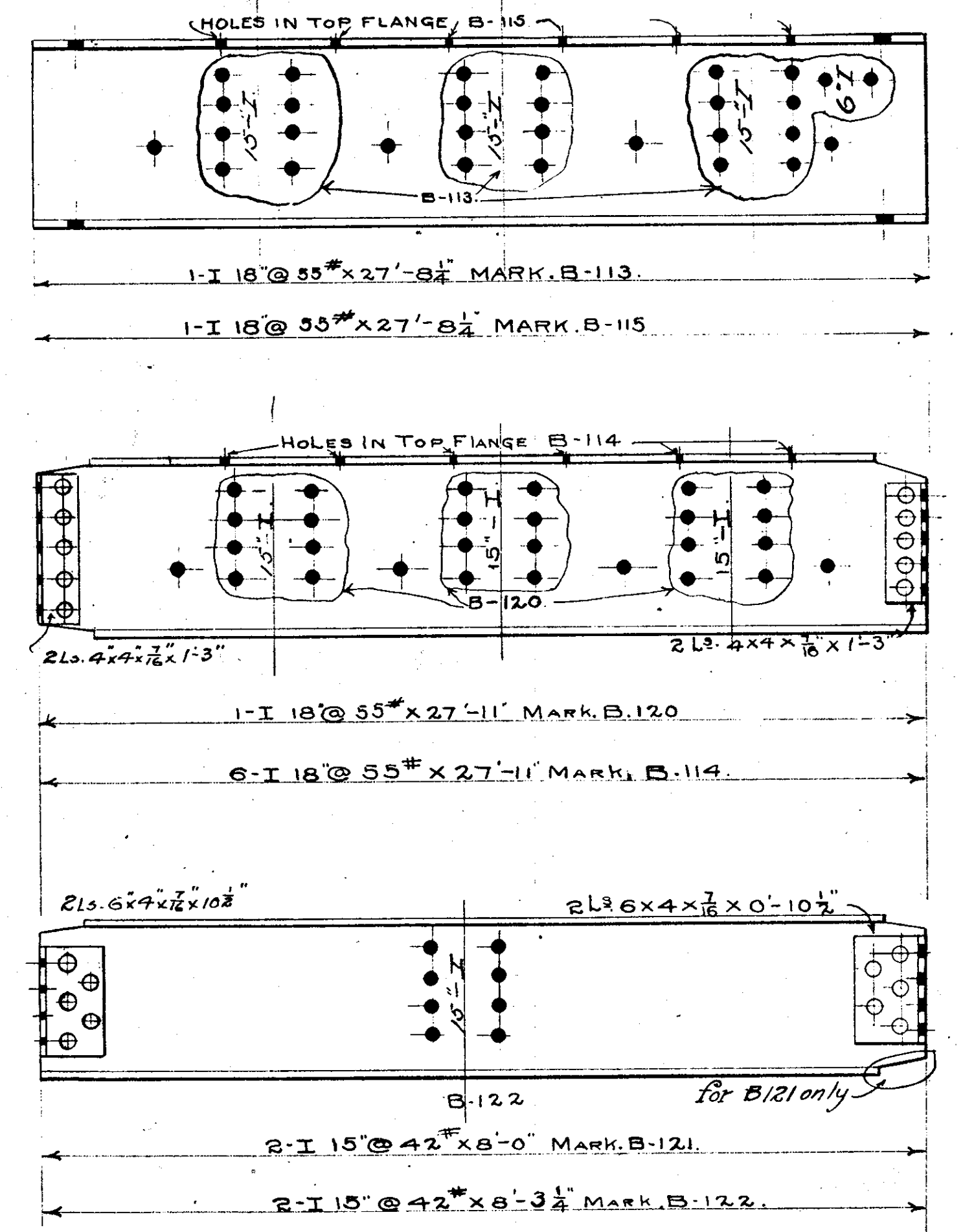
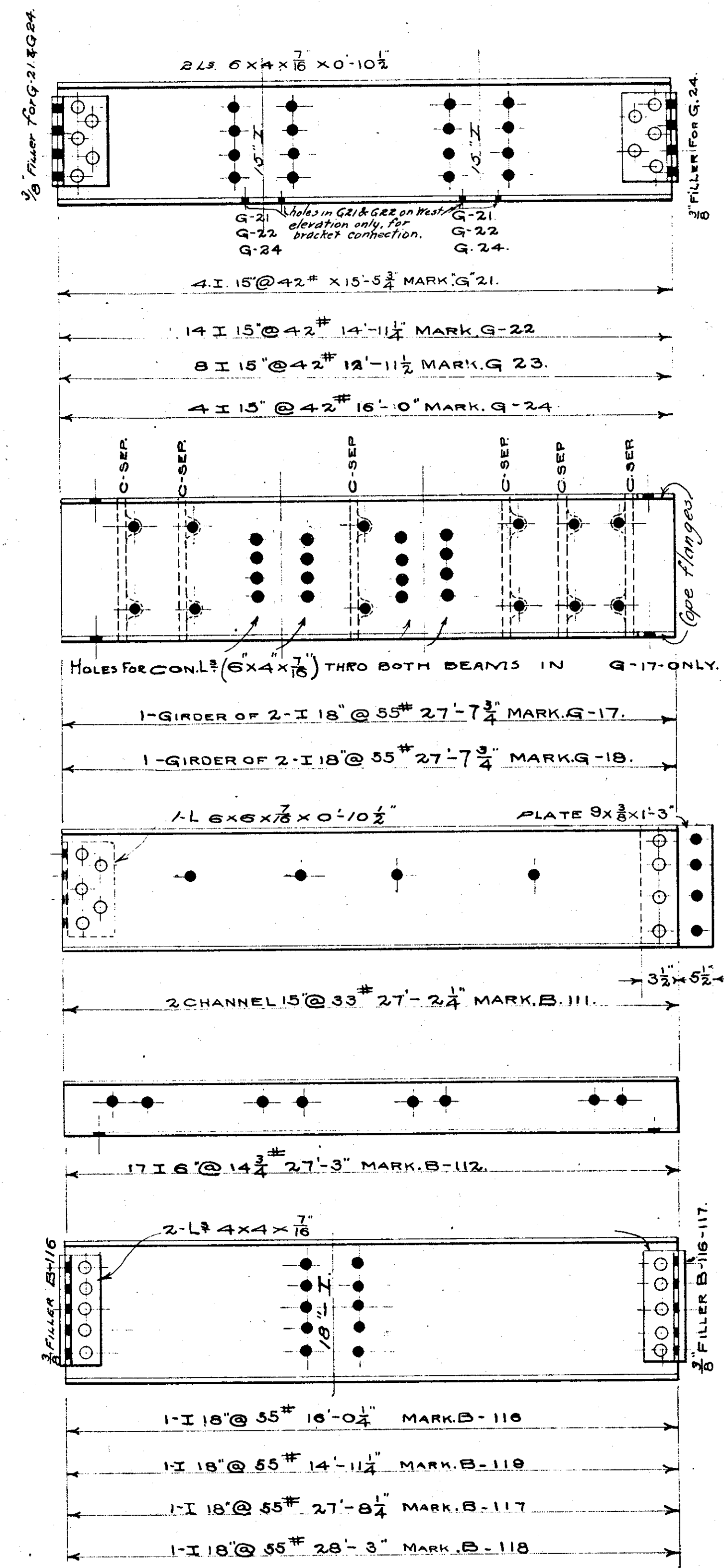
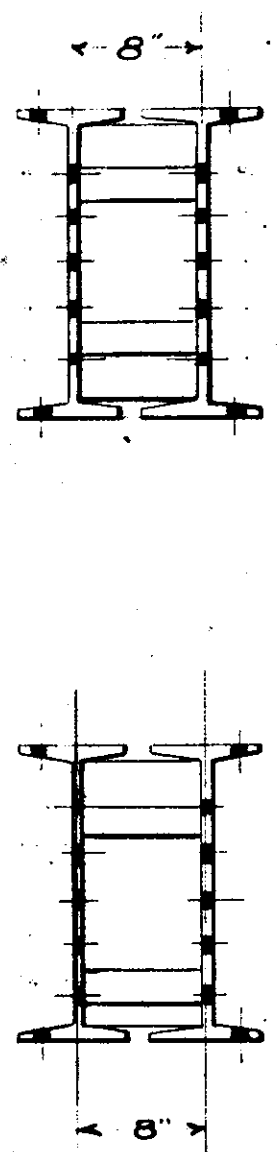
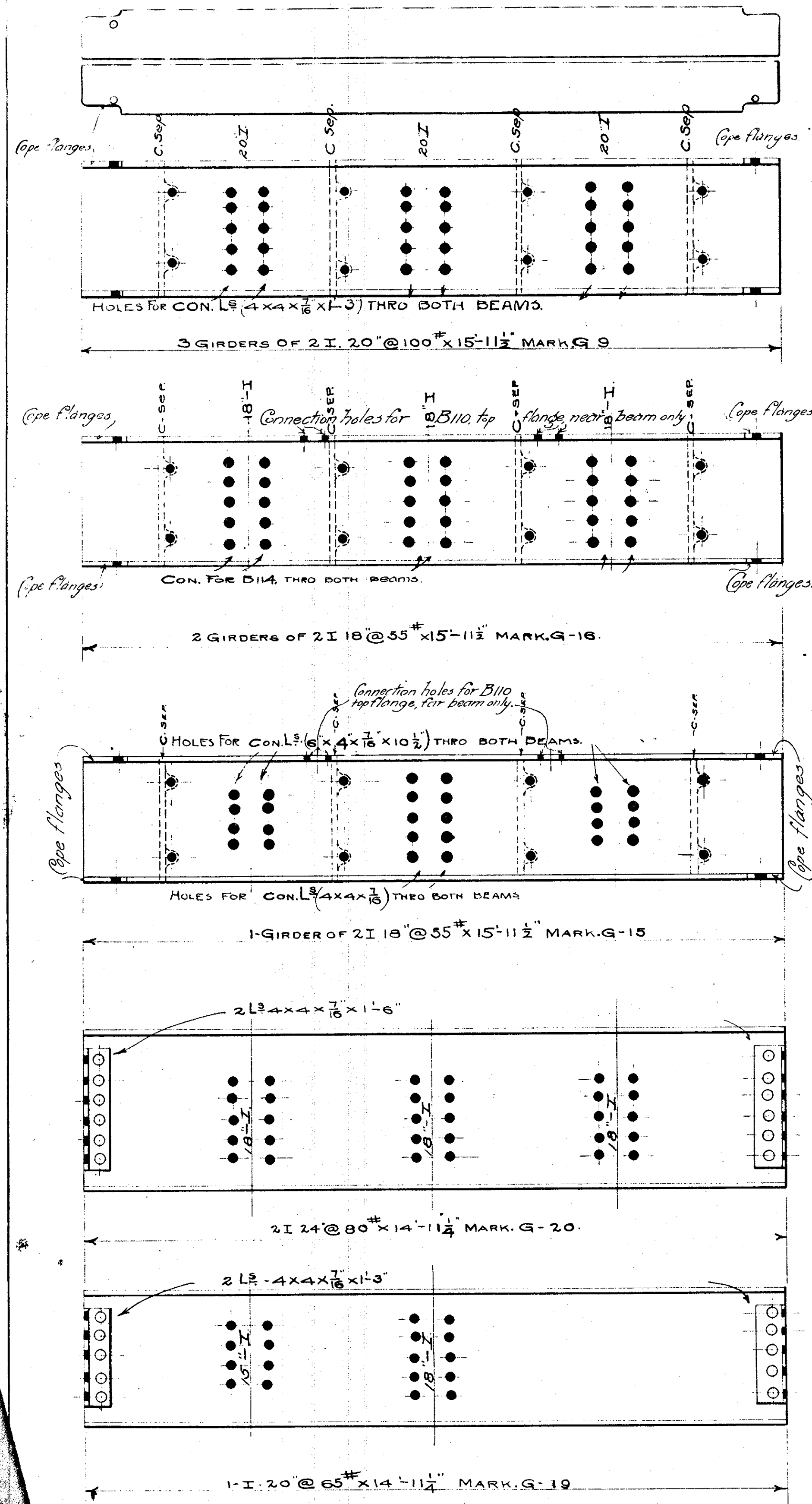
All Rivets 3/4" Diam.
Open Holes 3/4" Diam.
Contractor to verify all Dimensions

Detail

STEEL WORK
OF
THE MERCANTILE LIBRARY BLDG.
CINCINNATI O
TO BE ERECTED BY
THOS. EMERY'S SONS
Bert L. Baldwin & Co. Engineers.
72 73 Perin Bldg. Cincinnati, O



Cantilever Girder
for
The Mercantile Library Building,
Cincinnati, Ohio.
to be erected by
Thos. Emery & Sons.
Bert. L. Baldwin & Co Engineers.
12-18 Perin Bldg. Cinti. O.



---NOTE---

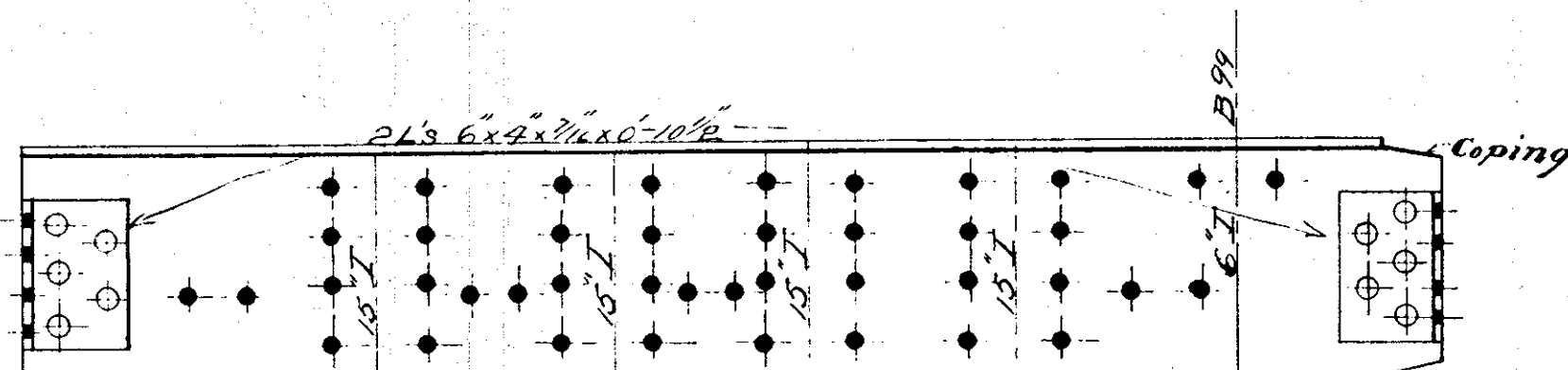
ALL BEAMS FLUSH ON TOP.

ALL RIVETS 3/8" IN DIAMETER.

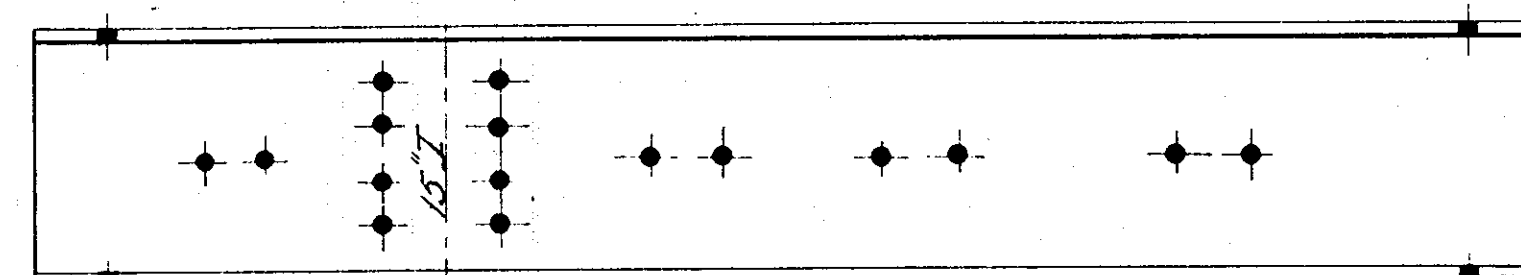
ALL HOLES 1 3/8" IN DIAMETER.

CONTRACTOR TO VERIFY ALL DIMENSIONS.

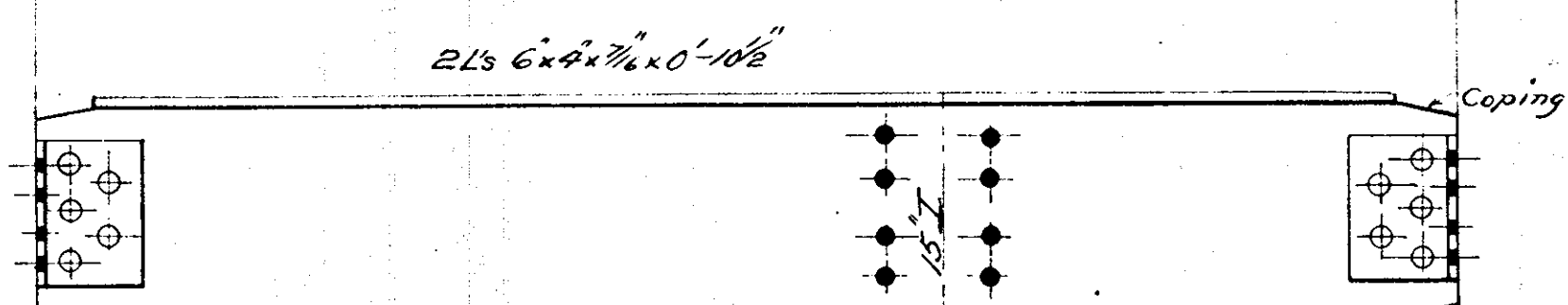
STEEL WORK
OF
THE MERCANTILE LIBRARY BLDG.
CINCINNATI O.
 TO BE ERECTED BY
THOS. EMERY'S SONS.
 Bert. L. Baldwin & Co. Engineers.
 72-73 Penn. Bldg. Cincinnati O.



B98 B95 B99 B99
 B99 B99 B100
 B103
 4 I 15" @ 42" 22'-3" Mark B95
 29 I 15" @ 42" 28'-3" " B96
 1 I 15" @ 42" 28'-3" " B98
 1 I 15" @ 80" 28'-3" " B99
 1 I 15" @ 42" 28'-3" " B100
 1 I 15" @ 80" 19'-10" " B101
 1 I 15" @ 80" 28'-3" " B103



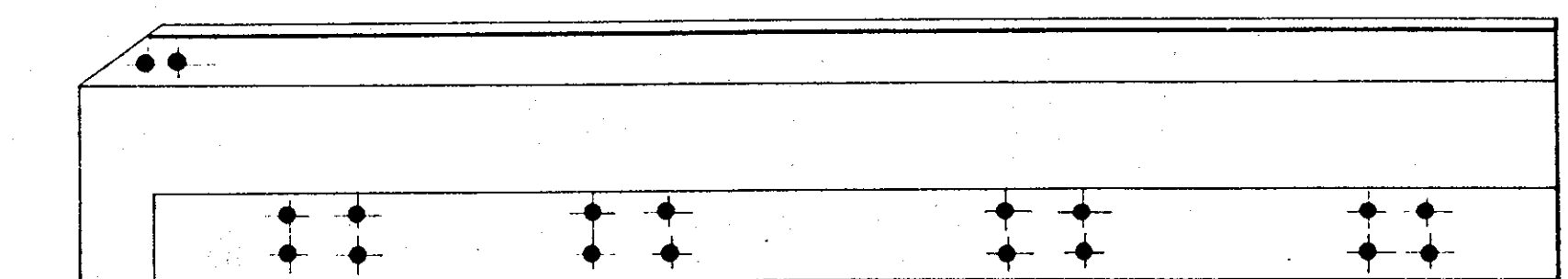
B104
 B102
 11 I 15" @ 42" 27'-8" Mark B97
 1 I 15" @ 42" 27'-8" " B104
 1 I 15" @ 42" 27'-8" " B102
 14 I 15" @ 42" 27'-8" " B109



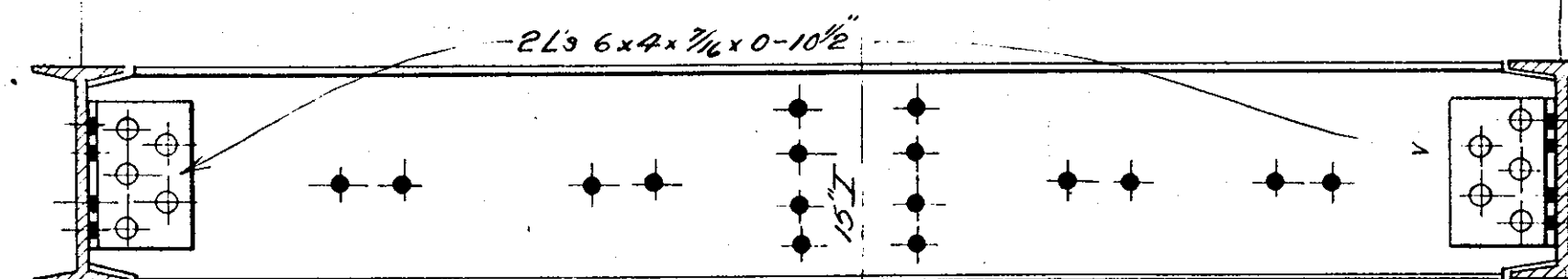
B105
 1 I 15" @ 100" 10'-6 1/2" Mark B105
 1 I 15" @ 33" 5'-4" " B106
 1 I 15" @ 42" 10'-8 1/2" " B123

16 Ls 6x3 1/2 x 1/2 x 14'-1 1/2" Mark A4
 56 Ls 6x3 1/2 x 1/2 x 16'-1 1/2" " A2
 2 Ls 6x3 1/2 x 1/2 x 15'-10" " A5

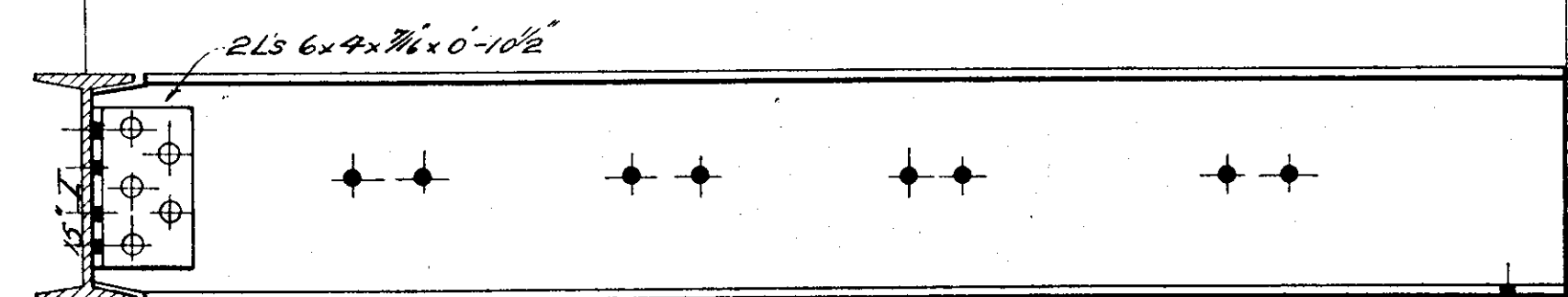
All beams flush on top
 Open Holes 1/2" diam.
 Rivets 3/4" diam.
 Contractor to verify all dimensions



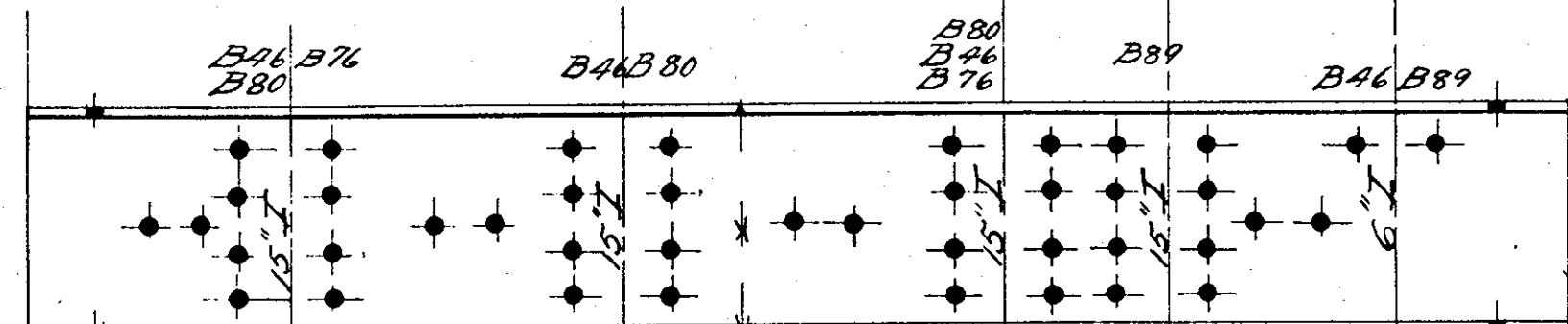
10 Ls 6x3 1/2 x 1/2 18'-1" Mark A1
 4 Ls 6x3 1/2 x 1/2 17'-5" " A6
 4 Ls 6x3 1/2 x 1/2 16'-1" " A7
 10 Ls 6x3 1/2 x 1/2 15'-5" " A8



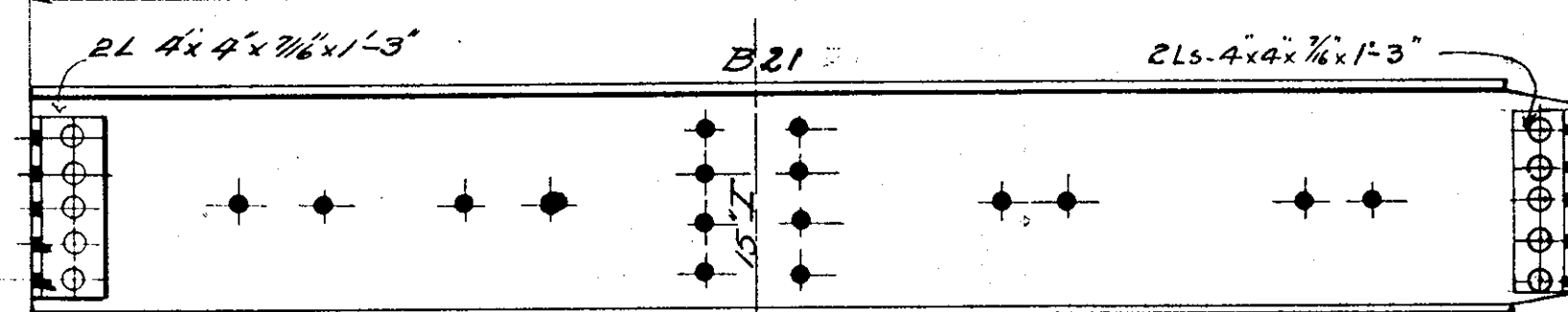
B107
 4 I 15" @ 42" 28'-4" ctoe of Is Mark B107
 26 I 15" @ 42" 28'-4" ctoe of Is " B108



Beveled 6 I 11/2 x 6
 6 I 15" @ 42" 28'-4" Mark B-110



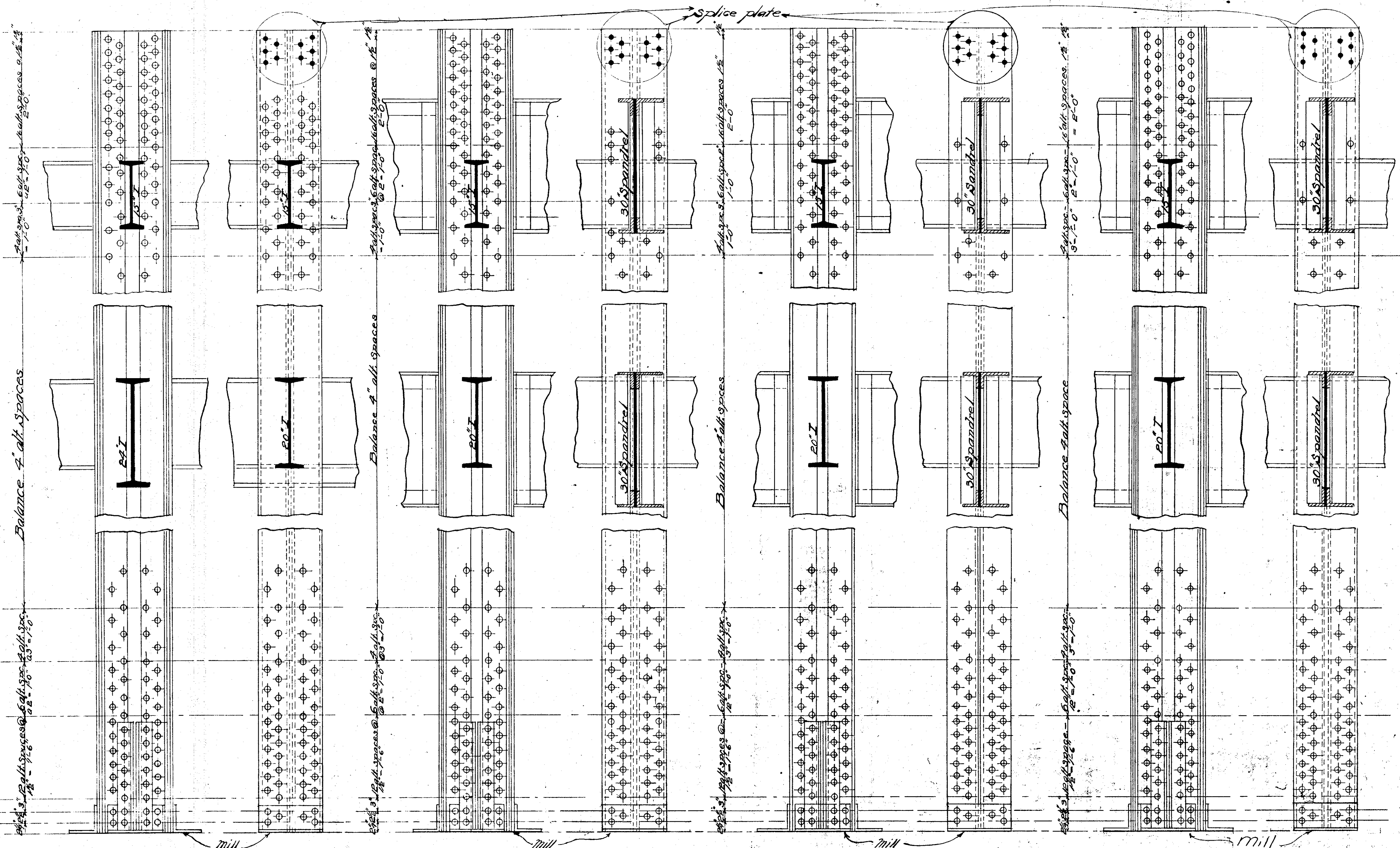
B76 B74
 B80
 B46 B80
 B80 B89
 B46 B89
 10 I 15" @ 50" 27'-8" Mark B74
 9 I 15" @ 80" 27'-8" " B46
 8 I 15" @ 80" 27'-8" " B80
 8 I 15" @ 50" 27'-8" " B76
 2 I 15" @ 80" 27'-8" " B89



B81
 2 I 20" @ 90" x 27'-6 3/4" Mark B86
 16 I 20" @ 90" 27'-6 3/4" " B87

Detail

STEEL WORK
 OF
 THE MERCANTILE LIBRARY BLDG.
 CINCINNATI O
 TO BE ERECTED BY
 THOS EMERY'S SONS
 Bert. L. Baldwin & Co. Engineers
 72-73 Perin Bldg. Cincinnati. O.



Balance 4" all spaces

Balance 4" all spaces

Balance 4" all spaces

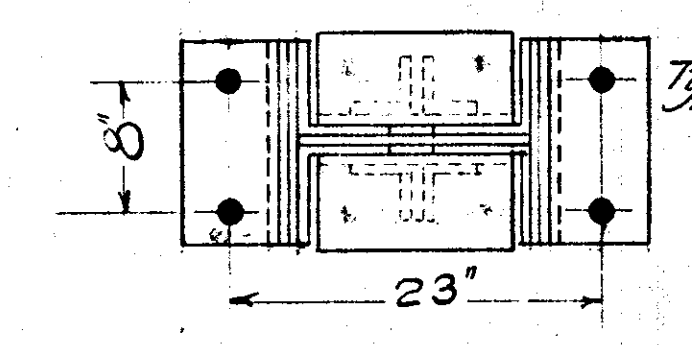
Balance 4" all spaces

Each 3" height spaces @ 6" all spaces 12.5 = 1.0

Each 3" height spaces @ 6" all spaces 12.5 = 1.0

Each 3" height spaces @ 6" all spaces 12.5 = 1.0

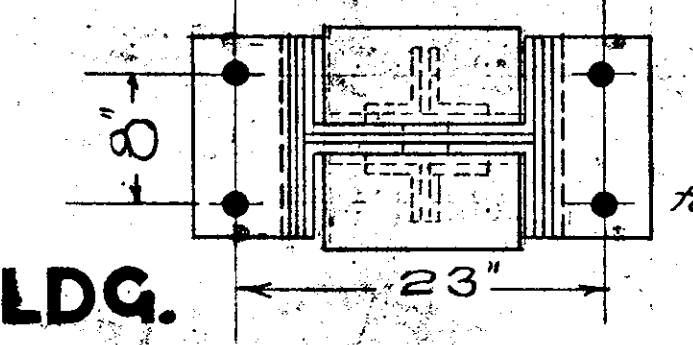
Each 3" height spaces @ 6" all spaces 12.5 = 1.0



Typical 1st Story Center Col.

Typical 1st Story Column East & West Elevation

Typical 1st story Column in North & South Elevation



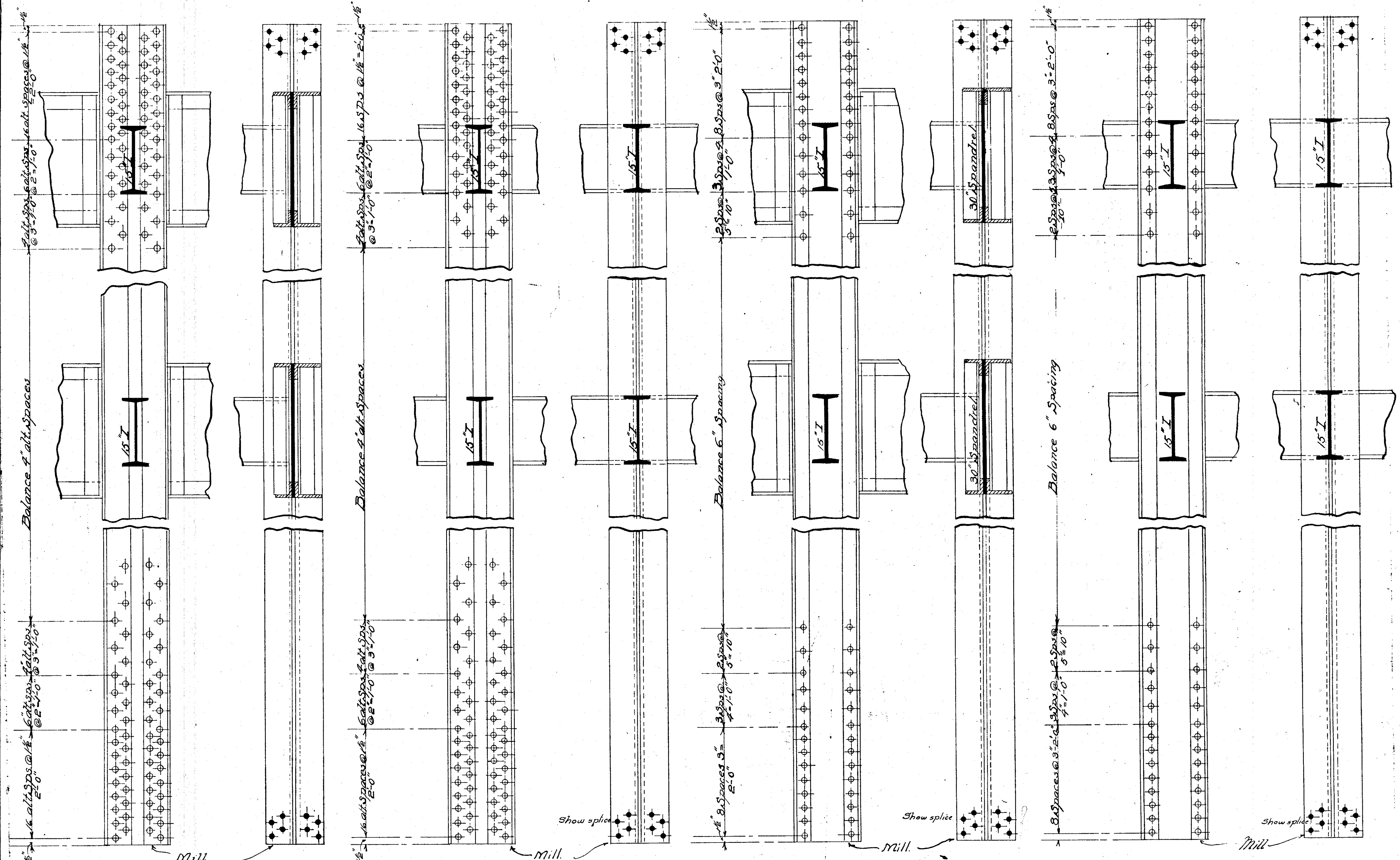
Typical Column supported by cantilever girder
Note! for Girder Beam Connections to Cols. See Detail Sheets #36-16 & 36-17 for material and Dimensions of Col. See Column Schedule.

NOTE! Contractor to verify all dimensions.

Typical 1st Story Columns

STEEL WORK OF THE MERCANTILE LIBRARY BLDG. CINCINNATI O

TO BE ERCTED BY
THOS. EMERY'S SONS
Bertr. L. Baldwin & Co. Engineers
72-73 Perin Bldg. Cincinnati. O



Typical Outside Column with 6"x6" Flange Ls

Typical Center Columns with 6"x6" Flange Ls

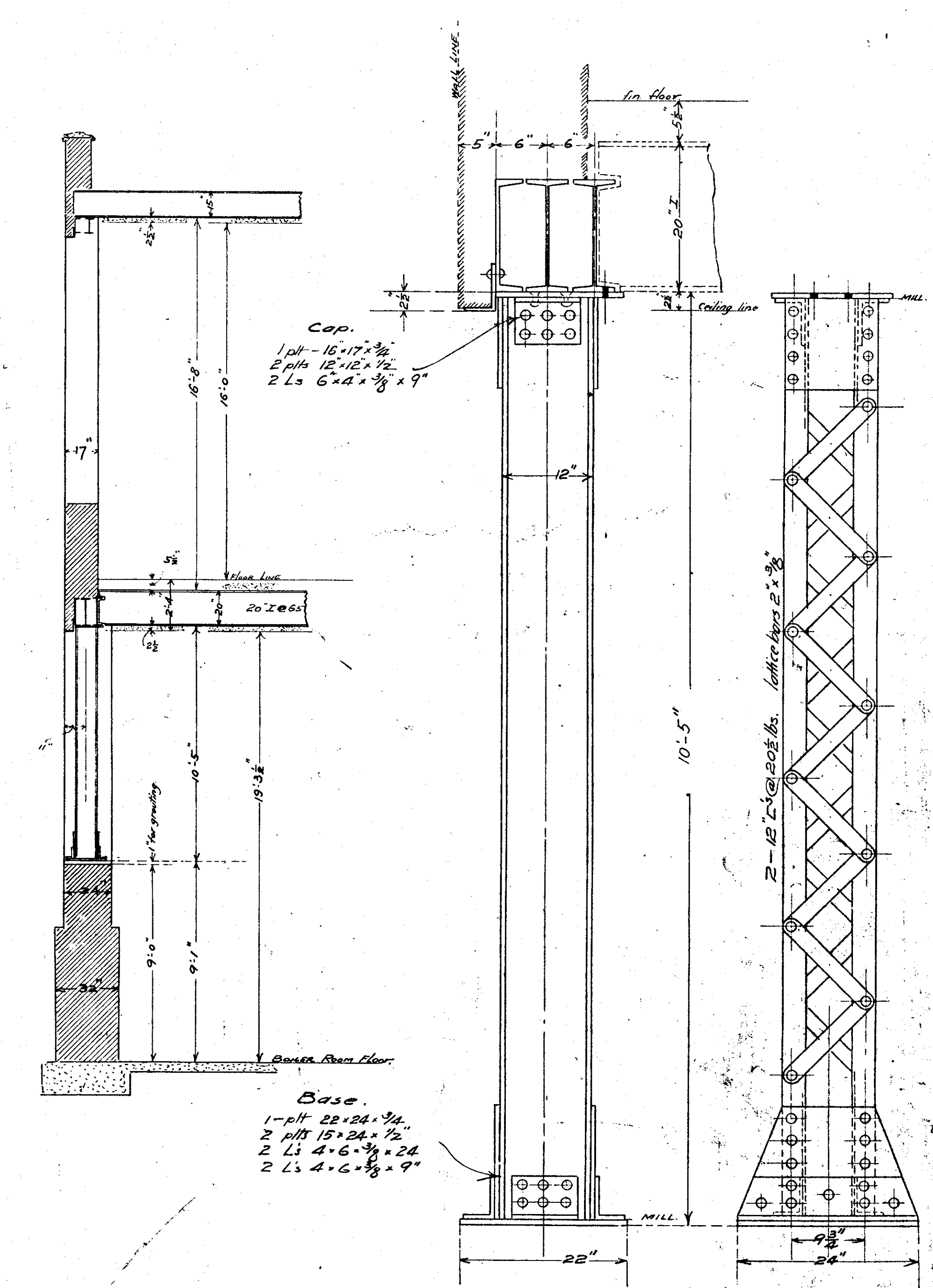
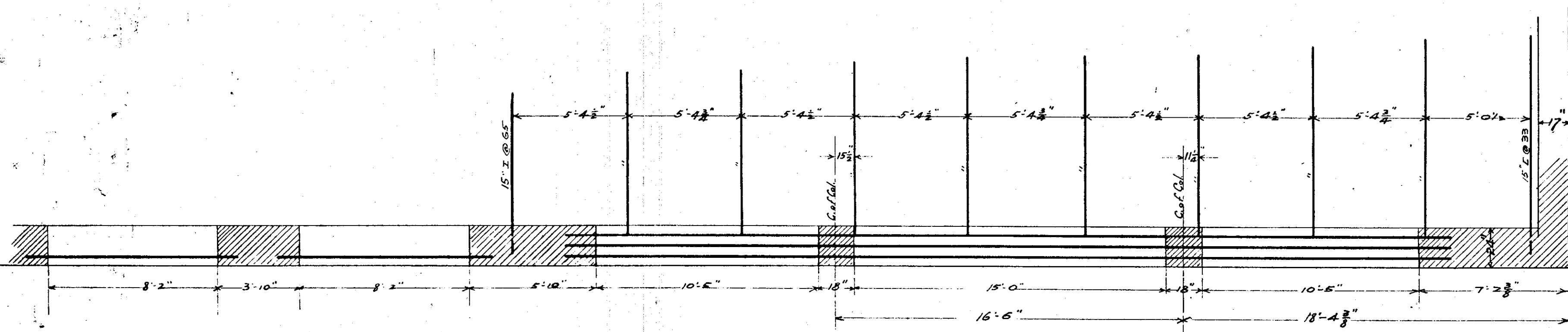
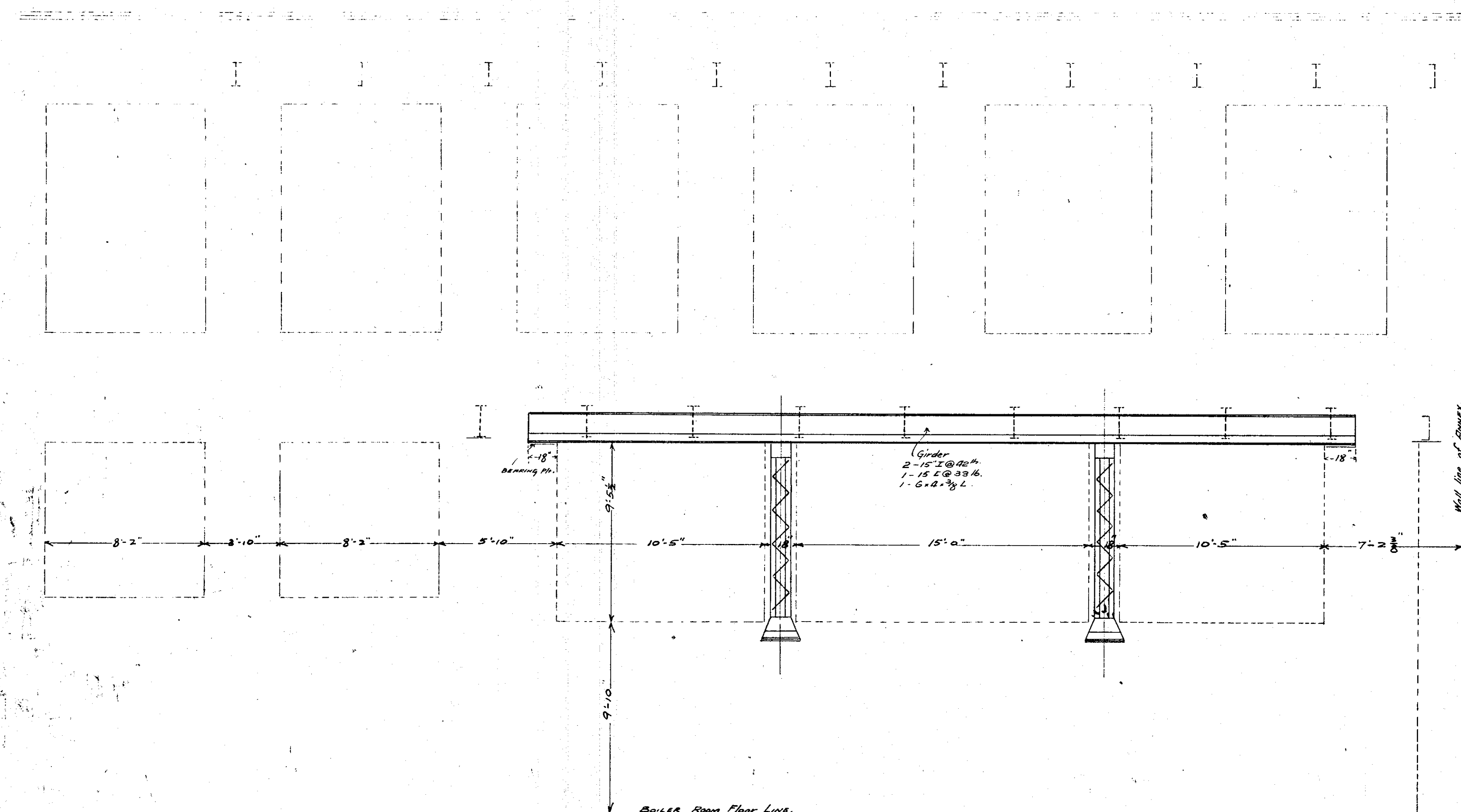
Typical Center Column with 6"x3 1/2" Flange Ls

Typical Center Column with 6"x3 1/2" Flange Ls

STEEL WORK OF THE MERCANTILE LIBRARY BLDG.

TO BE ERCTED BY THOS EMERY'S SONS
 Bert. L. Baldwin & Co. Engineers.
 72-73 Perin Bldg. Cincinnati. O

NOTE! For Girder & Beam Connections to Column. See Detail Sheet # For Material and Dimensions of Column. See Column schedule.

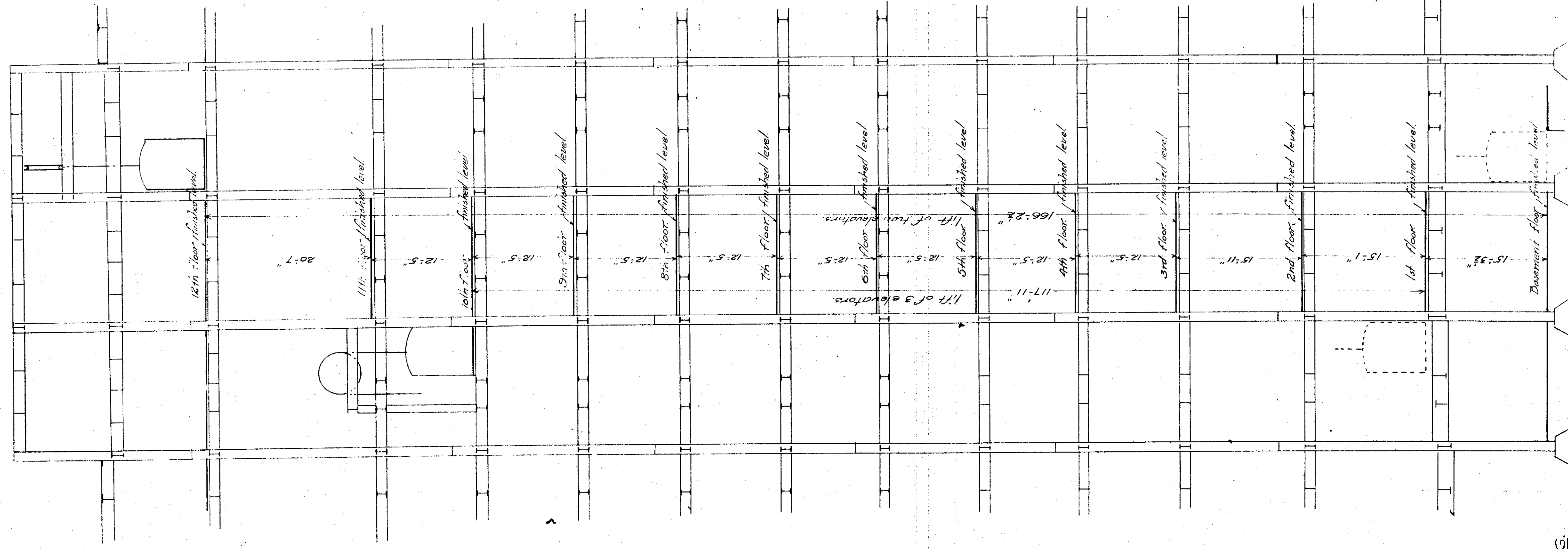


Details of Steel Work
 for
 Mercantile Library Building
 to be erected by
 Thos Emery's Sons.
 Feb. 3-1903. Bert L. Baldwin & Co.
 Engineers.

Cols and Girders over windows
 in East Boiler Room Wall.



SECTION
LOOKING SOUTH

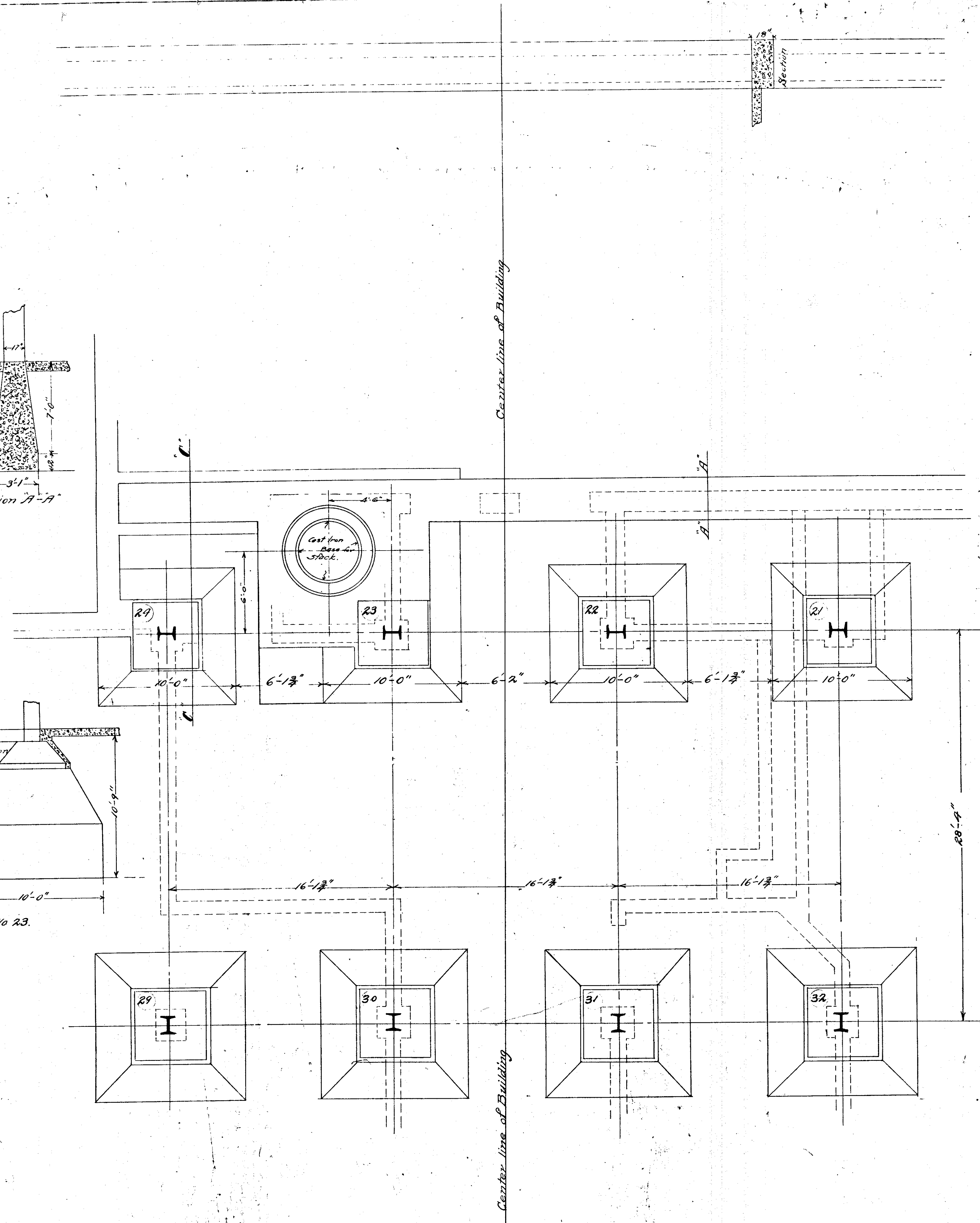
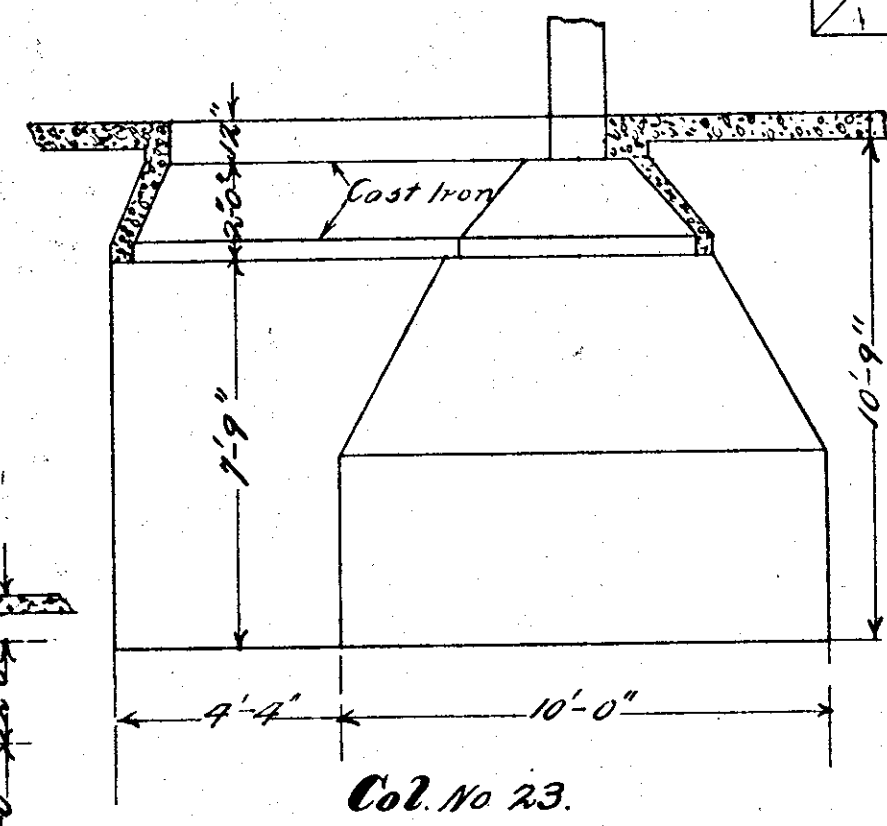
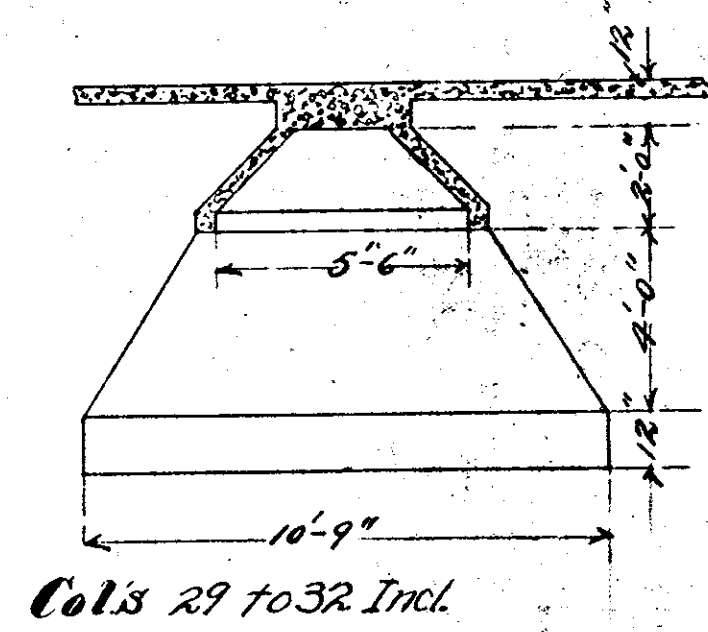
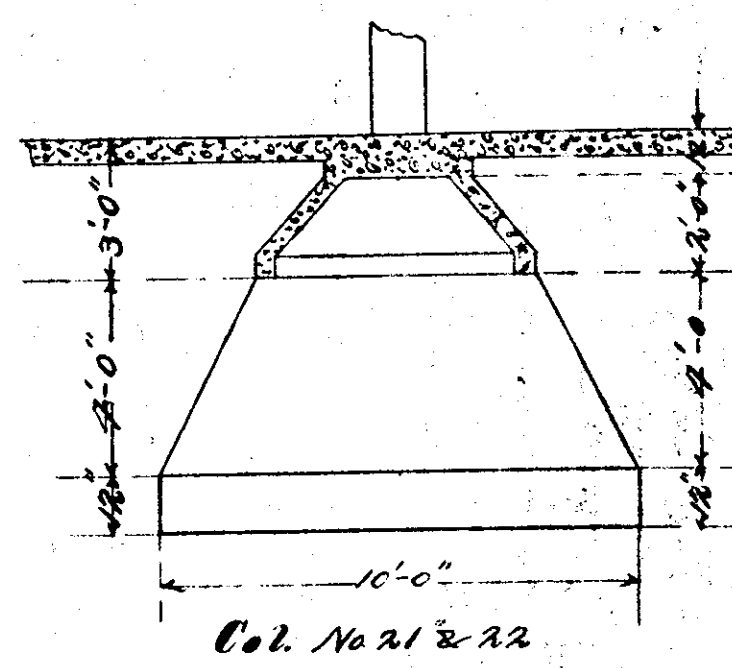
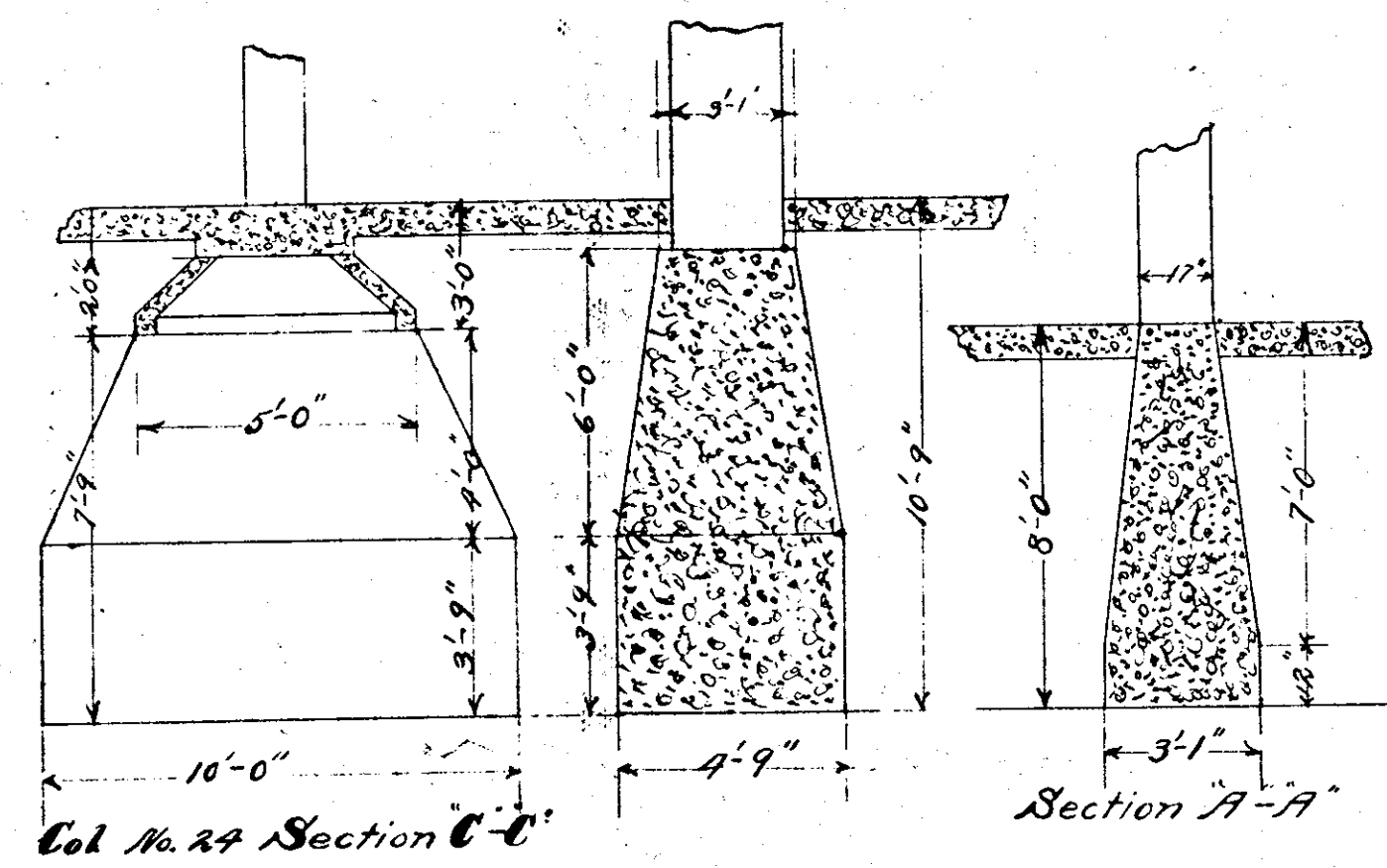


SECTION
LOOKING WEST

DIAGRAM OF
ELEVATOR ARRANGEMENT
MERCANTILE LIBRARY BLDG.
CINCINNATI, O.

BERNARD L. BALDWIN & Co. ARCHT. C.
12-73 Penn Bldg.
DEC. 26th 02

Scale $\frac{1}{8}$ " = 1 foot



Foundations around Elevators.
 Mercantile Library Building
 for
 Thomas Emery's Sons
 Bert L. Baldwin & Co
 Engineers
 Cincinnati, O.