

HALF SECTION THRU STRUCTURES  
Scale 1"=10'

DIAGRAM OF OLD & NEW ROAD ALIGNMENT

TYPICAL SECTION THRU DECK  
Scale 1"=1'-0"

### "EXHIBIT A"

APPROVED: *Roy C. Smith*  
 City Engineer, Board of Wayne County Road Comm.  
 APPROVED: \_\_\_\_\_  
 City Engineer, City of Detroit  
 APPROVED: \_\_\_\_\_  
 Chief Engineer, West Michigan Railway  
 APPROVED: \_\_\_\_\_  
 Chief Engineer, Eastern Michigan Railway  
 APPROVED: \_\_\_\_\_  
 Chief Engineer, Detroit Street Railway

BRIDGE  
 28+46.76 }  
 27+83.00 }

SECTION B-B  
Scale 1"=1'-0"

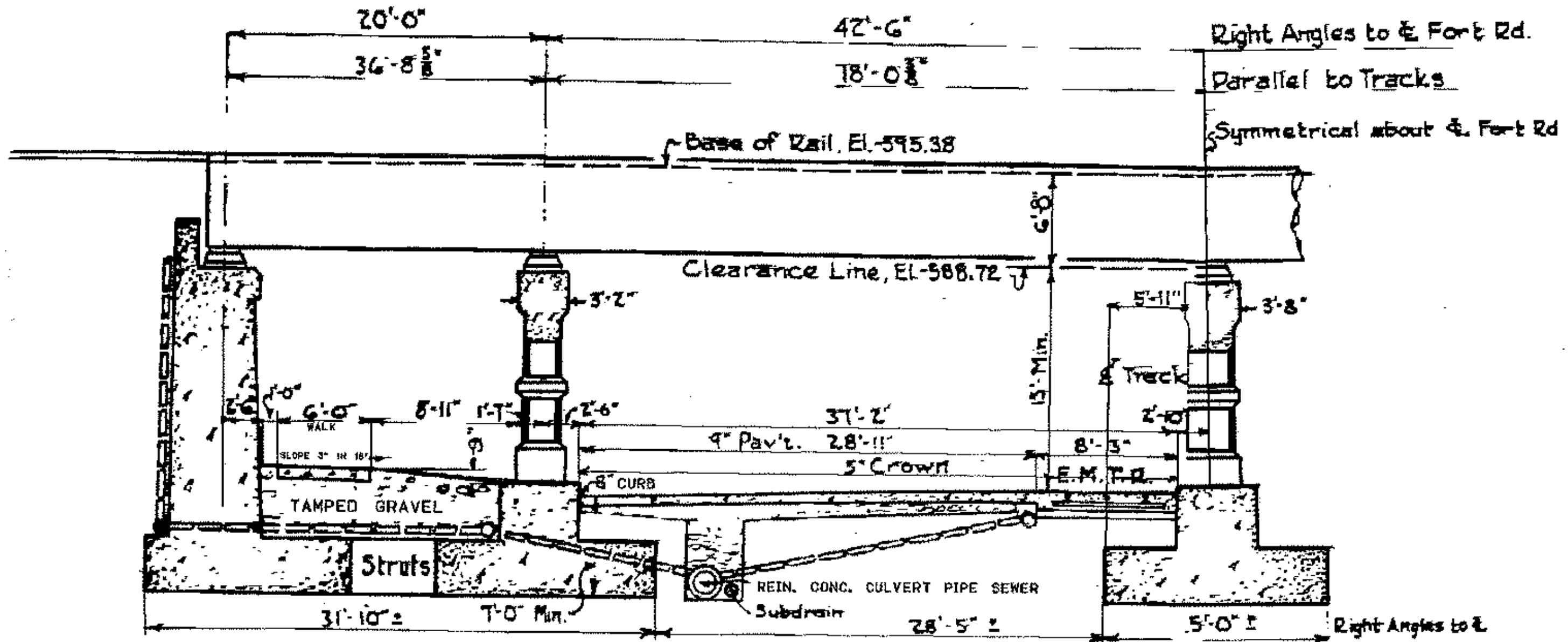
SECTION A-A  
Scale 1"=1'-0"

PLAN VIEW  
Scale 1"=50'

GRAPHIC SCALE IN FEET

PROFILE  
Scale 1"=10' VERT. 1"=100'

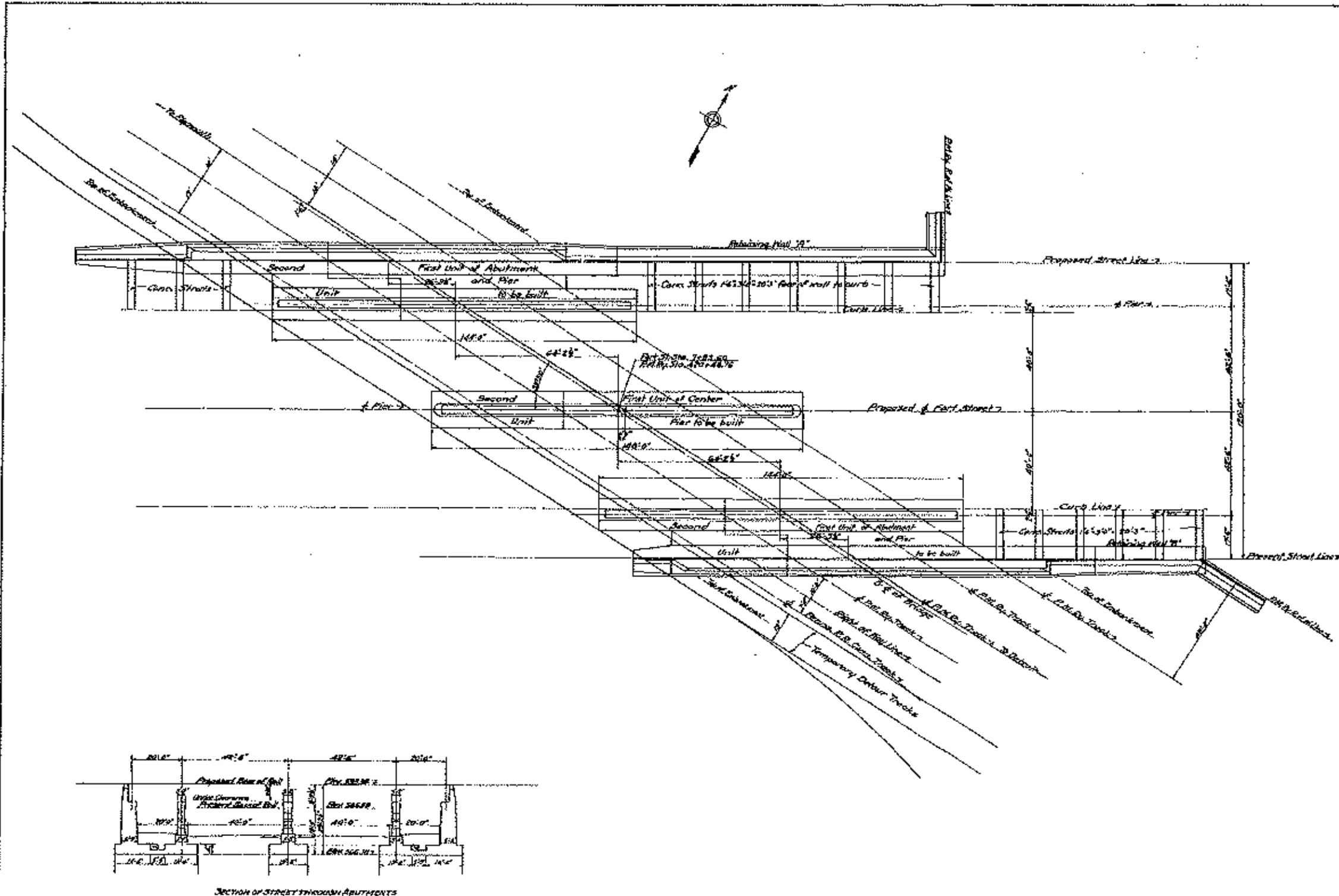
BOARD OF <b>WAYNE COUNTY ROAD COMMISSIONERS</b> DETROIT, MICHIGAN WM F. BUTLER JOHN S. HAGGERTY EDWARD N. HIRSH, Chairman	
<b>GENERAL DRAWING</b> <b>FORT ROAD-MILE</b> D.M. RY.-PA. R.R. GRADE SEPT. 18 1912-21-2	
REVISIONS 1. _____ 2. _____ 3. _____ 4. _____ 5. _____ 6. _____ 7. _____ 8. _____ 9. _____ 10. _____	JOB NO. <b>132</b> DATE 11-26-12



# HALF SECTION THRU STRUCTURES

Scale: 1" = 10'





**GENERAL NOTES AND SPECIFICATIONS**

**Specifications**—Michigan State Highway Dept. General Specifications for Steel and Concrete Highway Bridges, except where State Highway Commissioner and District Engineer are used, substitute Bridge Engineer of the Pere Marquette Railway.

**Concrete**—All concrete to be 1:2:4 mix. Class 1 surface finish, Class A coarse aggregate. Fine and coarse aggregates shall be stored in separate piles on slatly and plank floors, to be furnished by the contractor, and in a manner to avoid the inclusion of foreign materials.

**Reinforcing Bars**—All exposed corners & unless otherwise specified, exposed surfaces to be rubbed as soon as forms are removed.

**Emergency Plans**—The contractor shall furnish and keep on the work in condition for use at any time extra timely minutes an emergency concrete mixer of at least one-half cu yd. capacity.

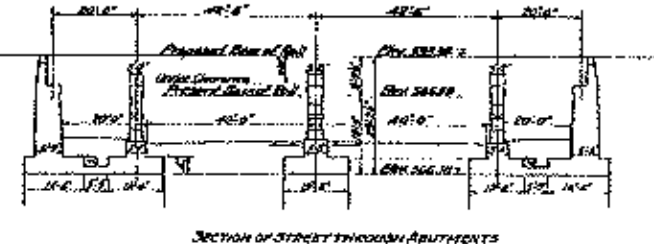
**Reinforcing Bars**—Bars to be securely wired together. At splices they shall lap for a length of 40 diameters and be securely wired together. All bars, except hoops, to be deformed bars. All bars of structural grade shall be non lap steel. All bars to be securely tagged.

**Construction Joints**—Shall be located as shown on detail drawings and no other joints will be permitted, except by approval of the Bridge Engineer. No horizontal construction joints will be permitted except at top of footings.

**Waterproofing**—Back of walls and abutments shall be painted two coats of an approved asphalt paint, 100 lb. of Galite per cu yd. in concrete above footings & walls and abutments.

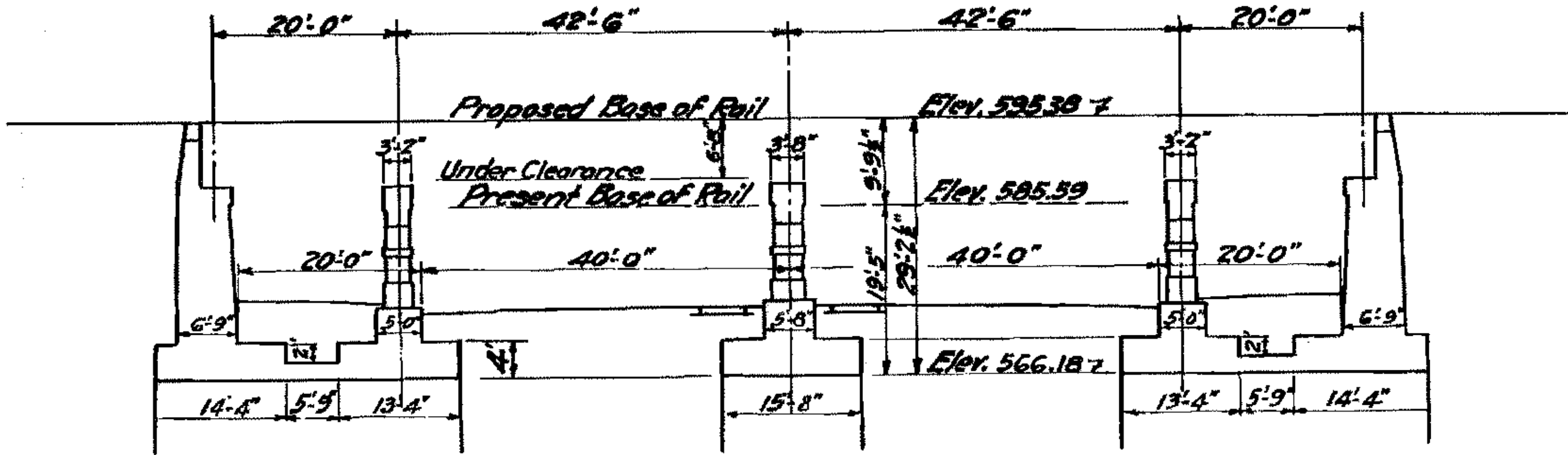
**Drainage**—5" Dia. Pipe drains carrying water from back of abutments and walls shall be connected to the general drainage system for the spanways by the Wayne County Road Commission.

**Method of Construction**—1st Operation—With trains operating over "Temporary Detour Tracks", construct complete bridge for two northern tracks. 2nd Operation—Operating trains over two northern tracks, complete remainder of bridge.

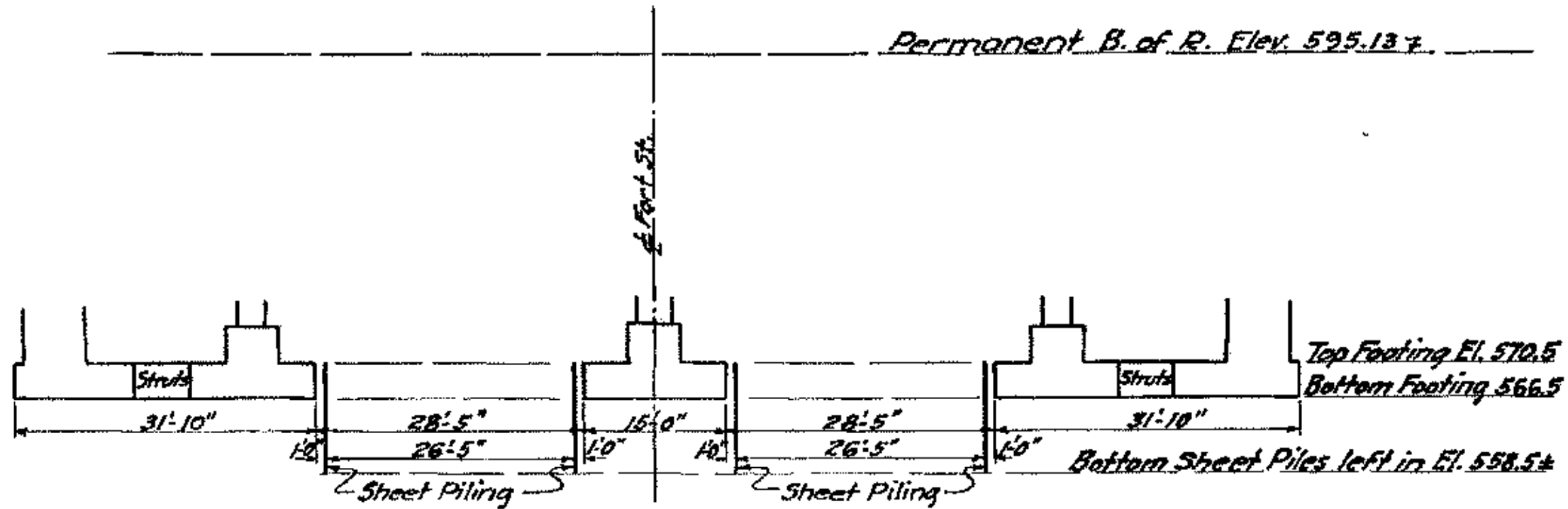


SECTION OF STREET THROUGH ABUTMENTS

Pere Marquette Ry.  
**FORT STREET GRADE SEPARATION**  
 GENERAL LAYOUT  
 Scale 1"=20' Aug. 7, 1925  
 Office of Engineer of Bridges and Structures  
 Detroit, Mich.



**SECTION OF STREET THROUGH ABUTMENTS**



*CROSS SECTION RT. ANGLE TO  $\perp$  FORT ST.*

P.M.R.Y.

**FORT ST. GRADE SEPARATION**

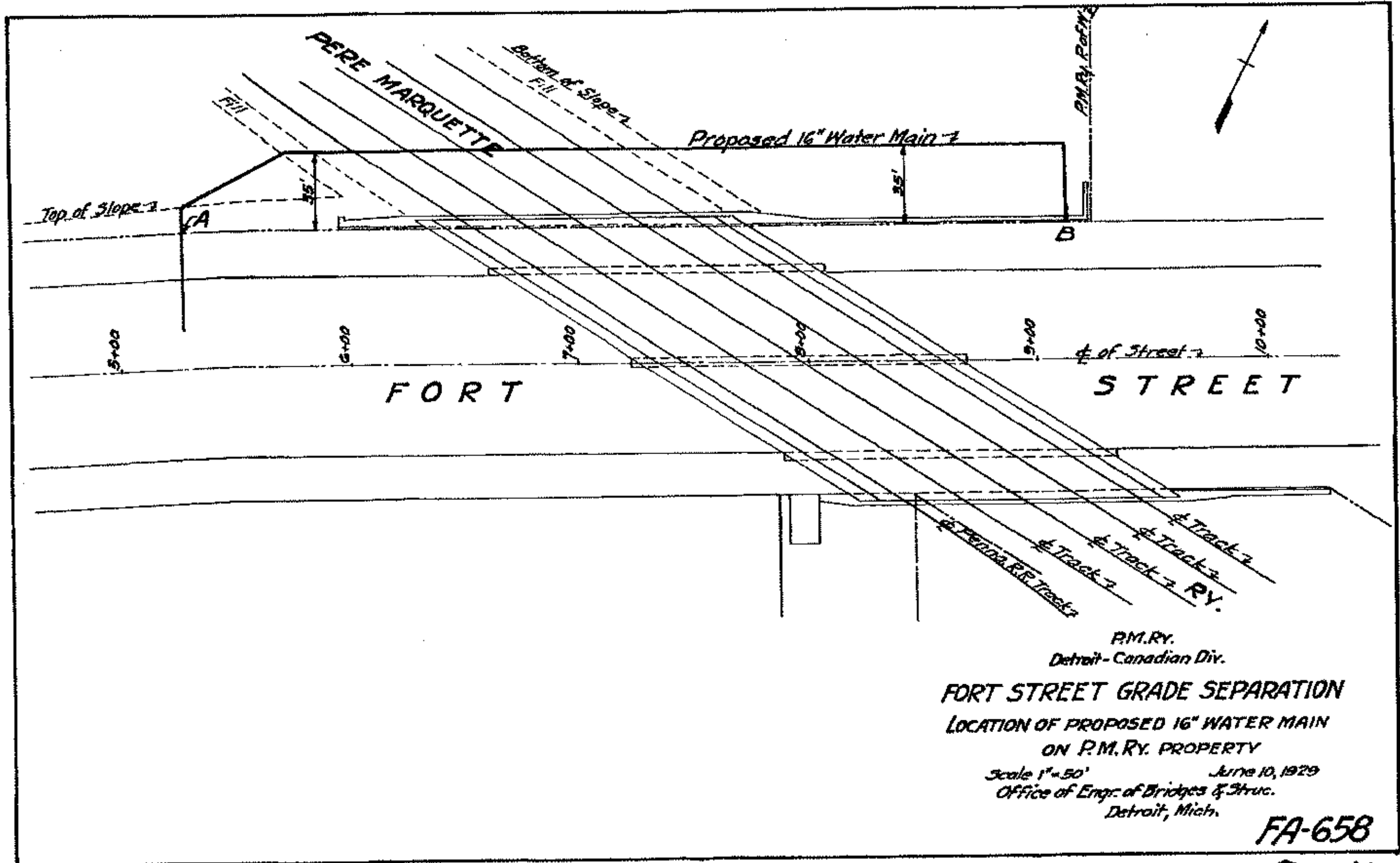
**LOCATION OF FOOTINGS**

*Scale 1"=16' c.s. Feb. 11, 1929*

*Office of Engineer of Bridges & Struc.*

*Detroit, Mich.*

**FA-640**

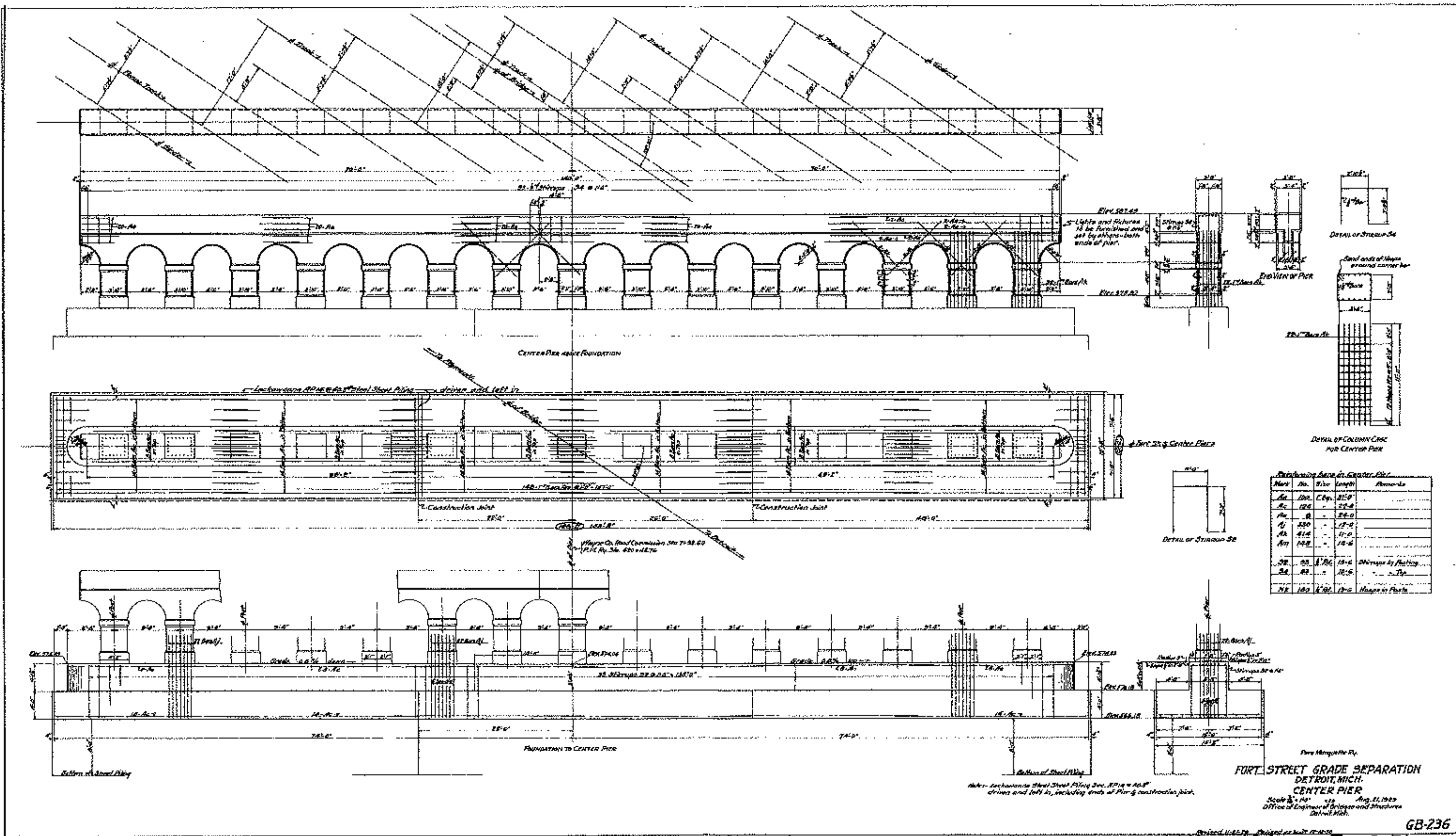


P.M. Ry.  
 Detroit-Canadian Div.  
**FORT STREET GRADE SEPARATION**  
 LOCATION OF PROPOSED 16" WATER MAIN  
 ON P.M. RY. PROPERTY  
 Scale 1"=50' June 10, 1929  
 Office of Engr. of Bridges & Struc.  
 Detroit, Mich.  
 FA-658

CATS4P

12x7 1/2

B0030116



Proposed Size of Greater Pier

Mark	No.	Size	Length	Remarks
Aa	100	12x12	81'-0"	
Ac	125	12x12	27'-0"	
Ad	10	12x12	24'-0"	
Aj	150	12x12	17'-0"	
Al	110	12x12	11'-0"	
Am	140	12x12	14'-0"	
BR	10	12x12	15'-0"	Shoring at footing
Ba	10	12x12	10'-0"	" " " "
NR	100	12x12	12'-0"	Shoring in floor

FORT STREET GRADE SEPARATION  
 DETROIT, MICH.  
 CENTER PIER  
 Scale 3/4" = 1'-0" Aug. 21, 1922  
 Office of Engineer of Bridges and Structures  
 Detroit, Mich.