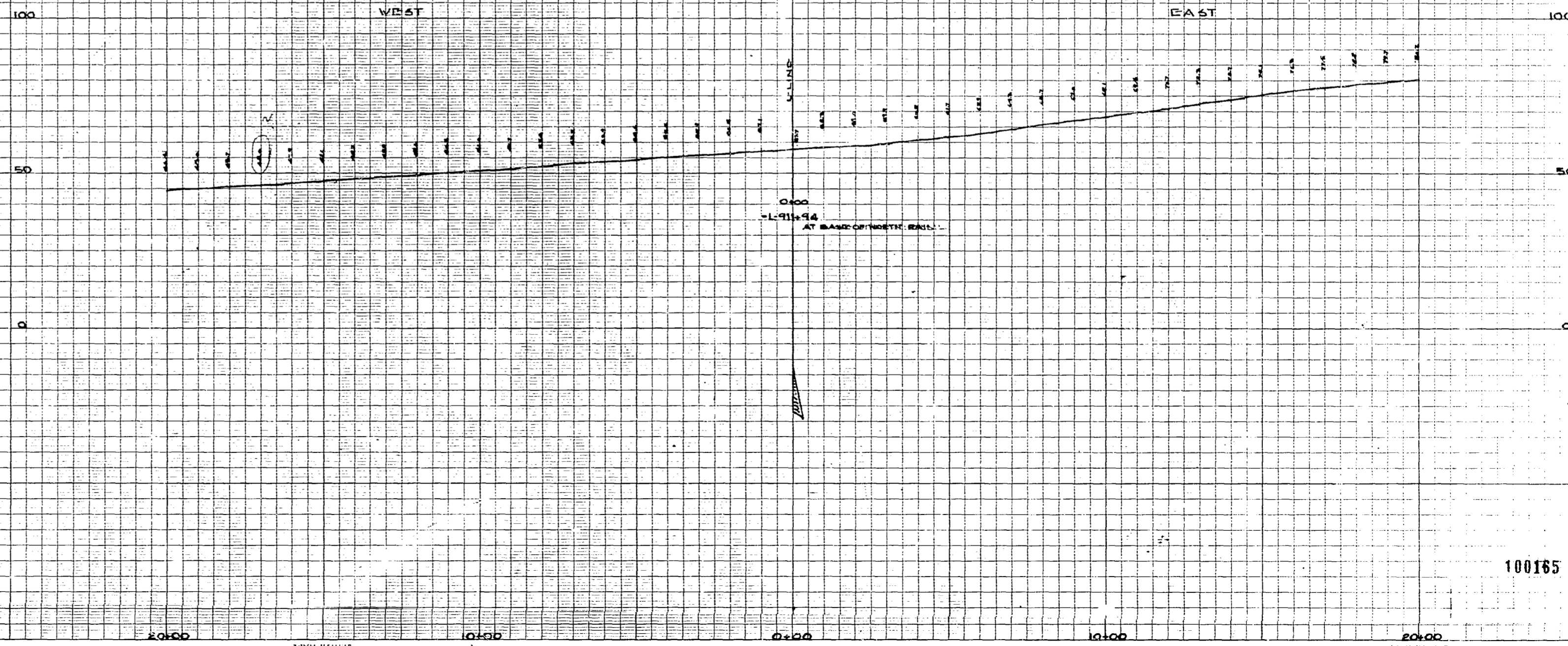
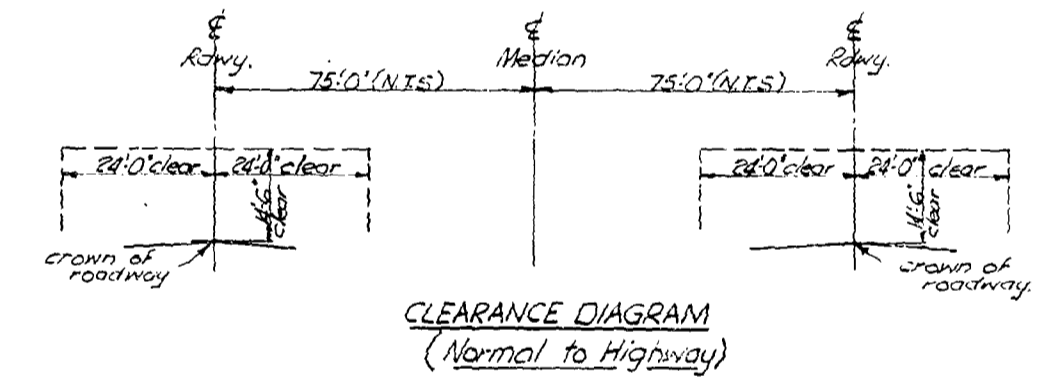
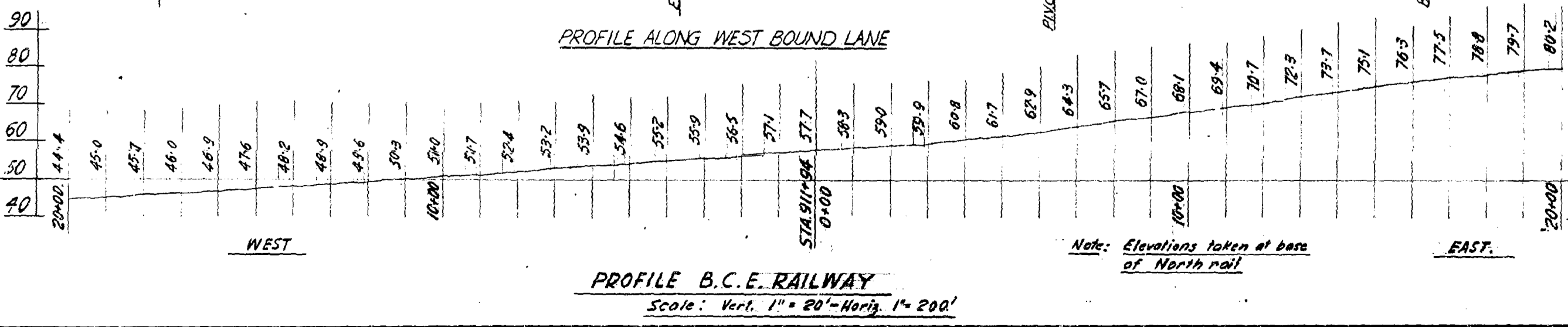
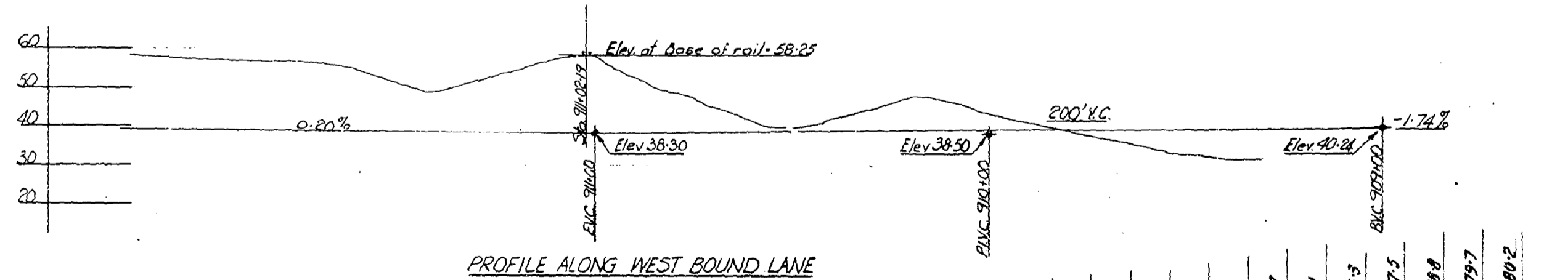
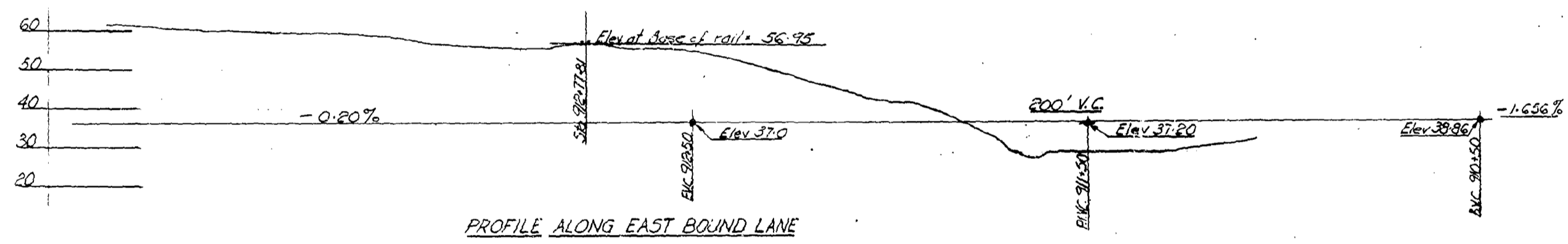
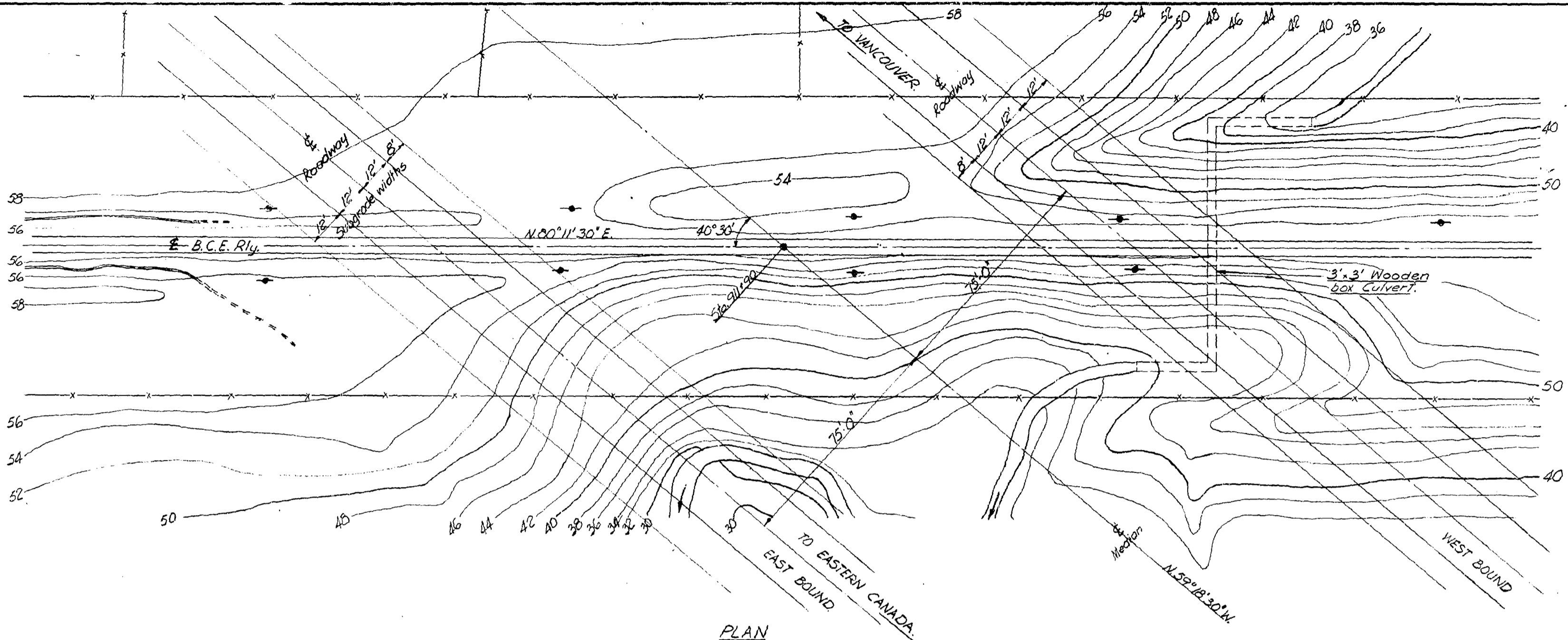


PROFILE OF B.C.E. RAILWAY  
TRANS CANADA HIGHWAY  
SPRINGBROOK - PORT MANN

NOTE  
ELEVATIONS TAKEN AT  
BASE OF NORTH RAIL





Note:- All highway elevations subgrade.  
Add 1.33' for finished grade.

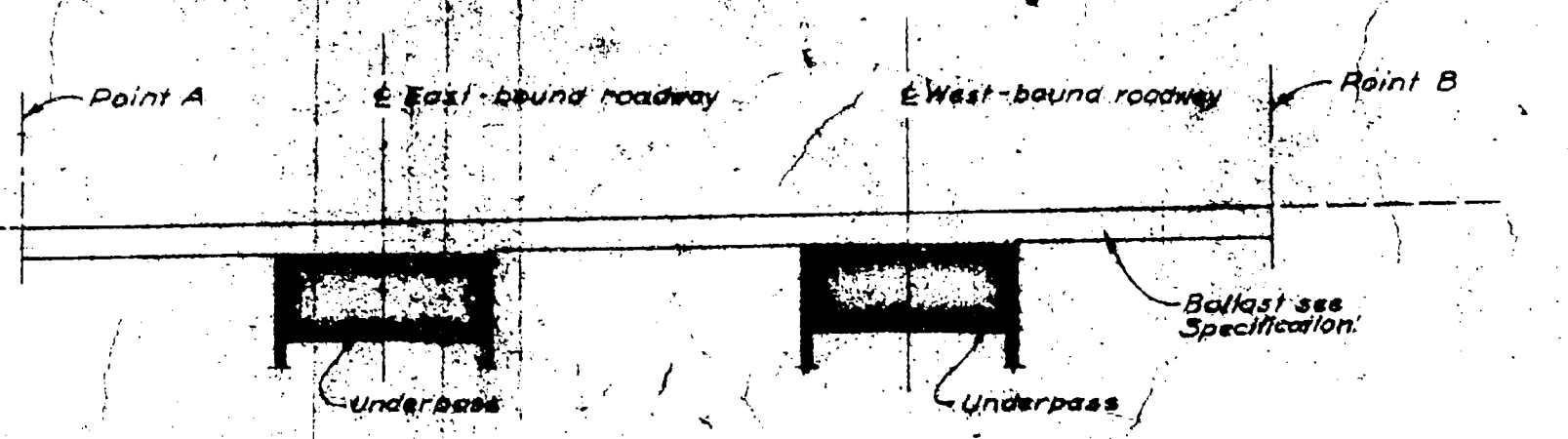
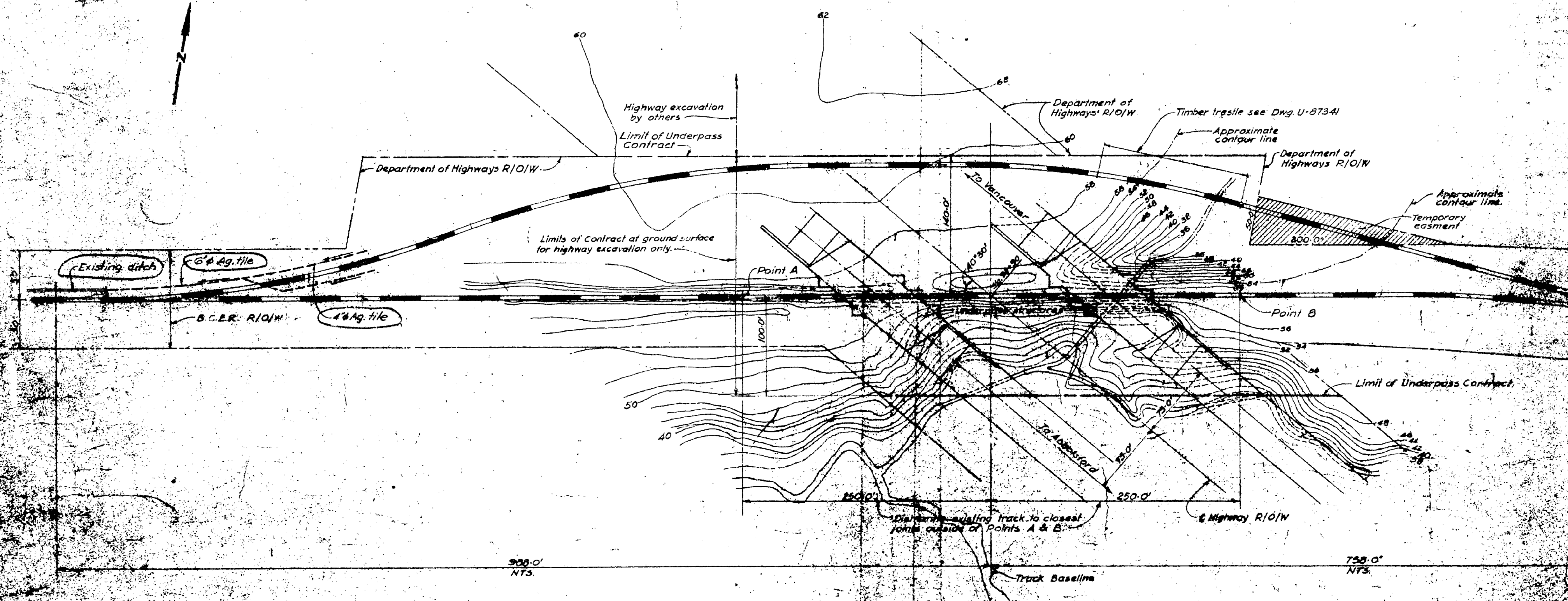
Note:-  
B.M. 225' R. of Sta. 919+40  
Elev. 61.38 in 10' Cedar Tree.

DELTA DISTRICT  
TRANS-CANADA HIGHWAY-MILE 96.33  
**B.C. ELECTRIC RAILWAY UNDERPASS**  
SITE PLAN  
SCALE: 1" = 20'-0" & AS MARKED.

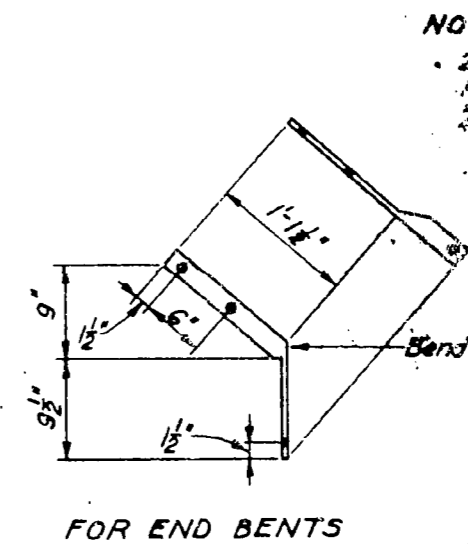
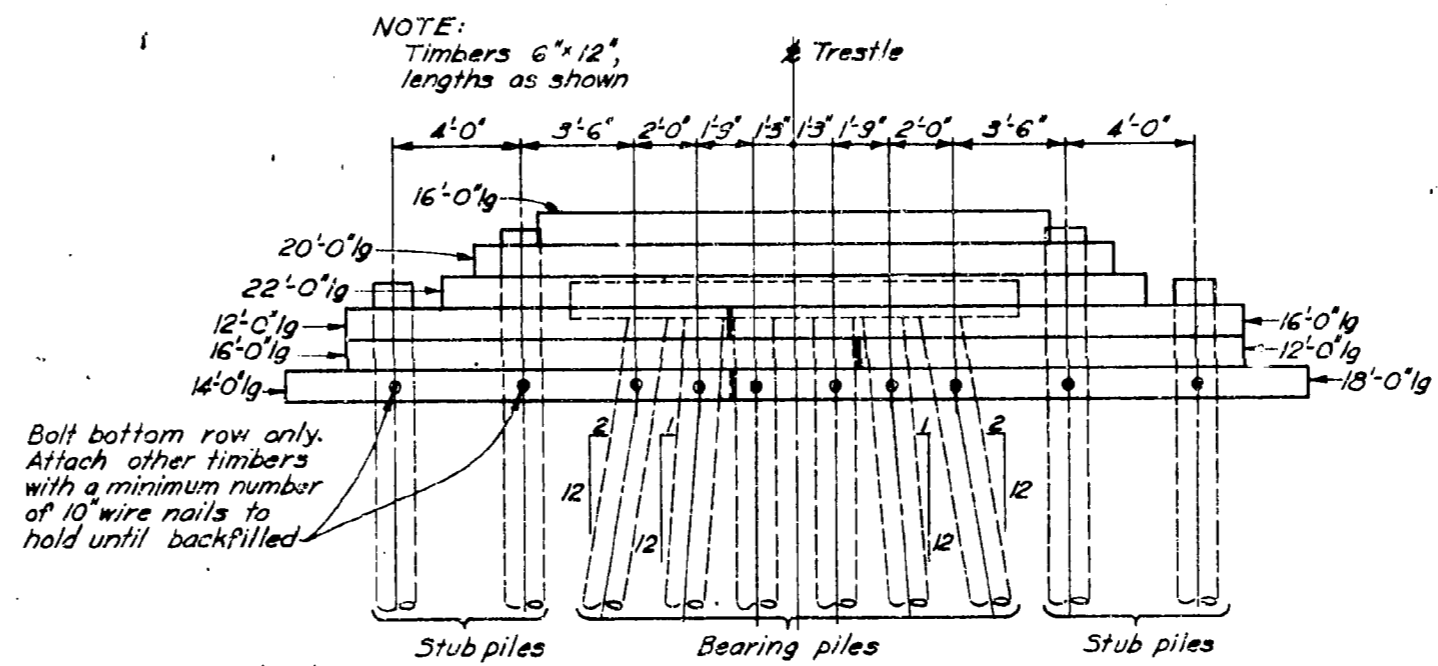
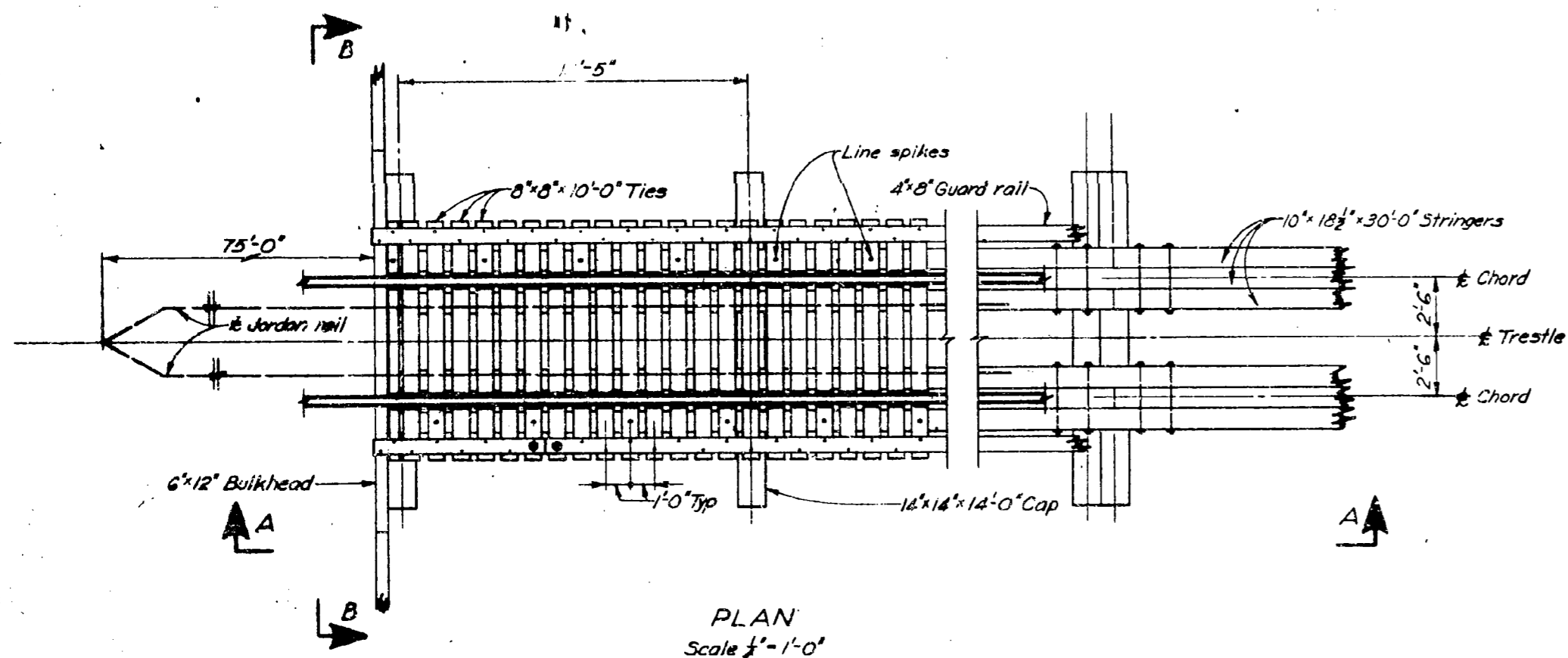
REVISIONS				GOVT. OF BRITISH COLUMBIA DEPT. OF HIGHWAYS BRIDGE ENGINEER'S OFFICE		
Rev.	Particulars	Init.	Date	Init.	Date	DRAWING NO.
A	Rly profile added.	W.K.	Dec 25/57			
				Made by	AKV 3/57	
				Checked by	R.P. Dec 3-57	BRIDGES
				Approved	100166	1578-1

Cancel prints bearing earlier letter

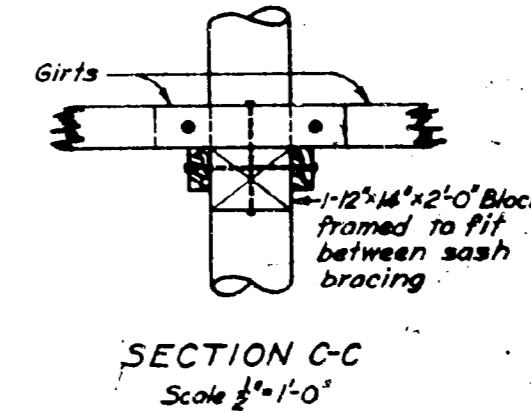
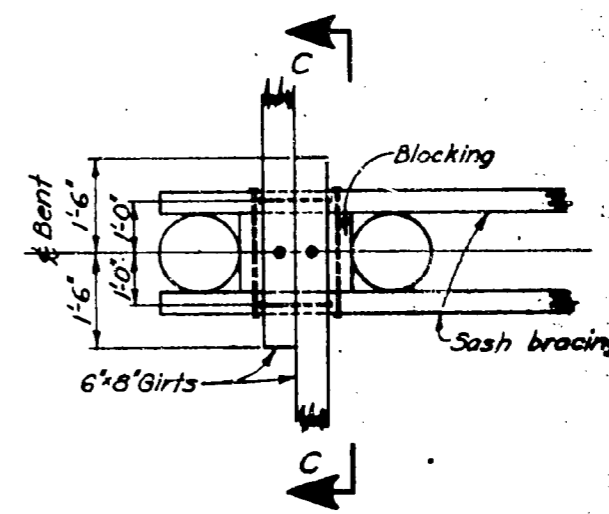
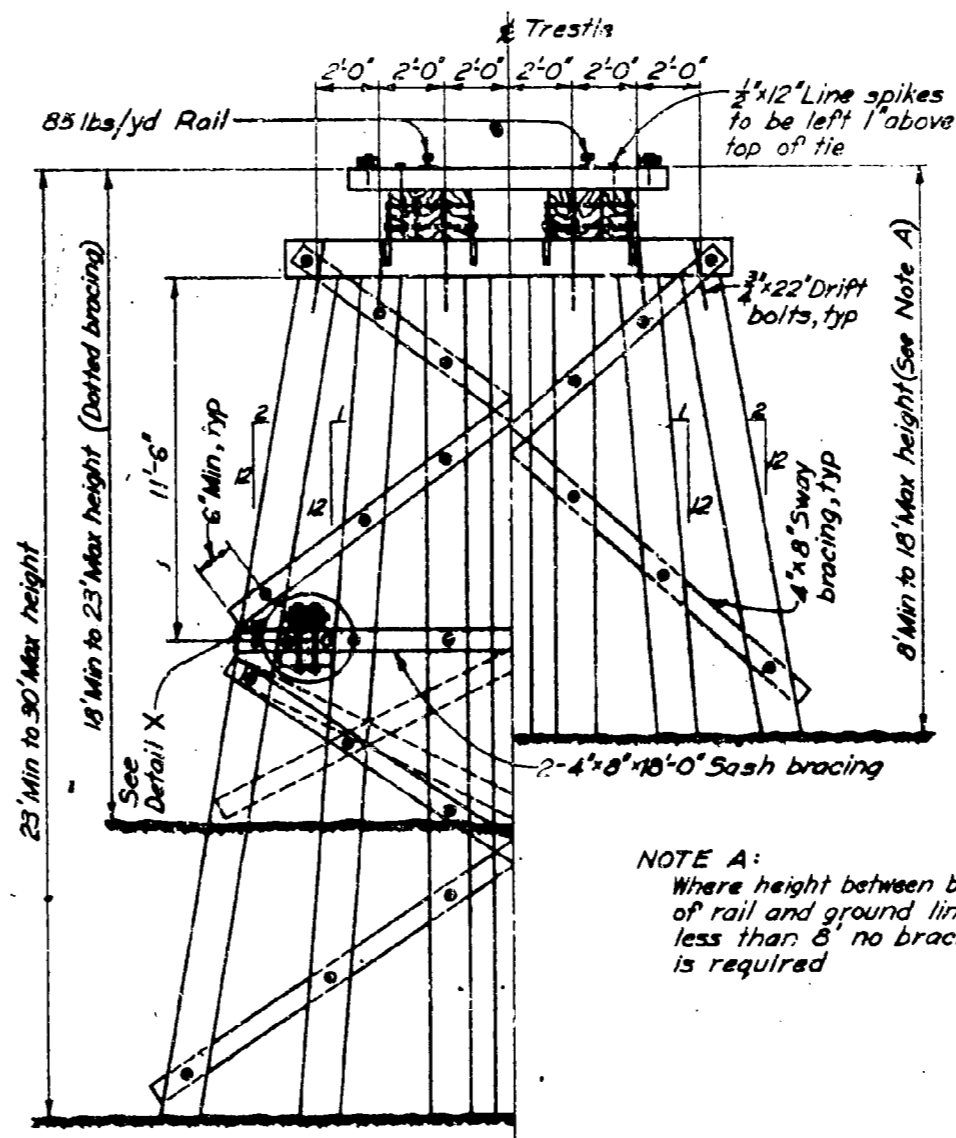
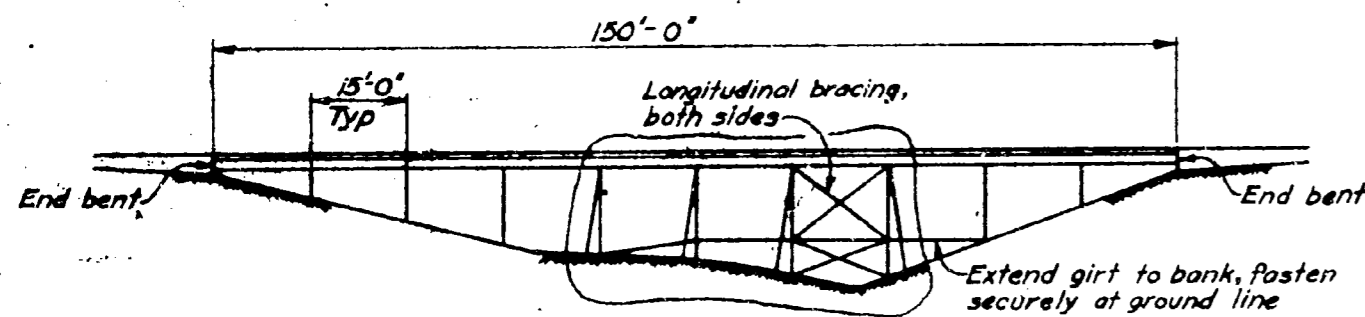
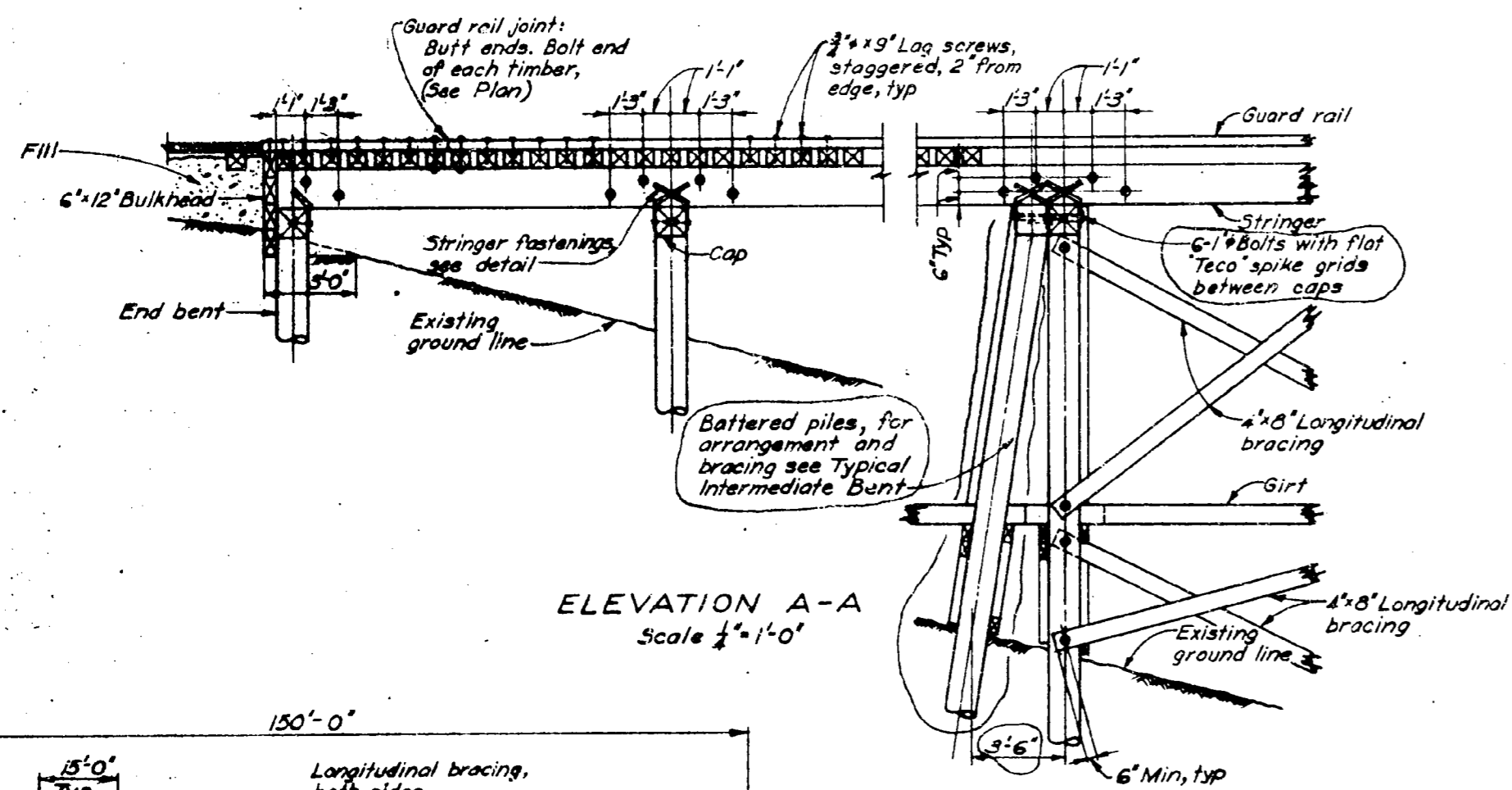




**LONGITUDINAL SECTION**  
 Scales - Horiz. 1" = 50'  
 Vert. 1" = 5'



STRINGER FASTENINGS  
Scale 1"=1'-0"



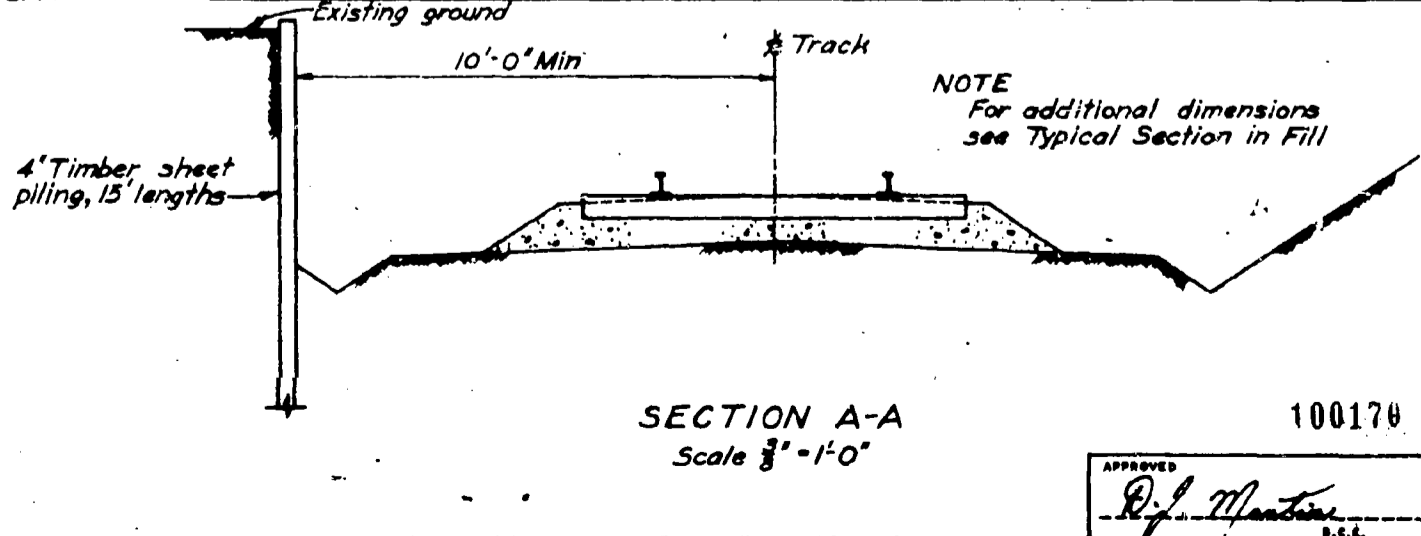
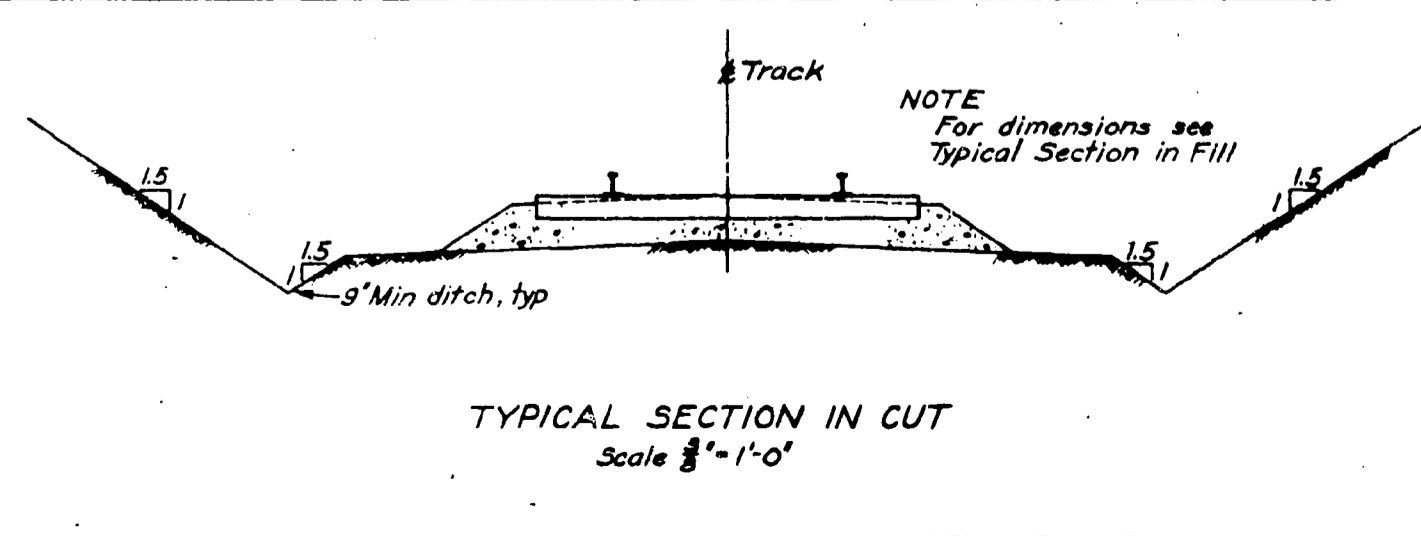
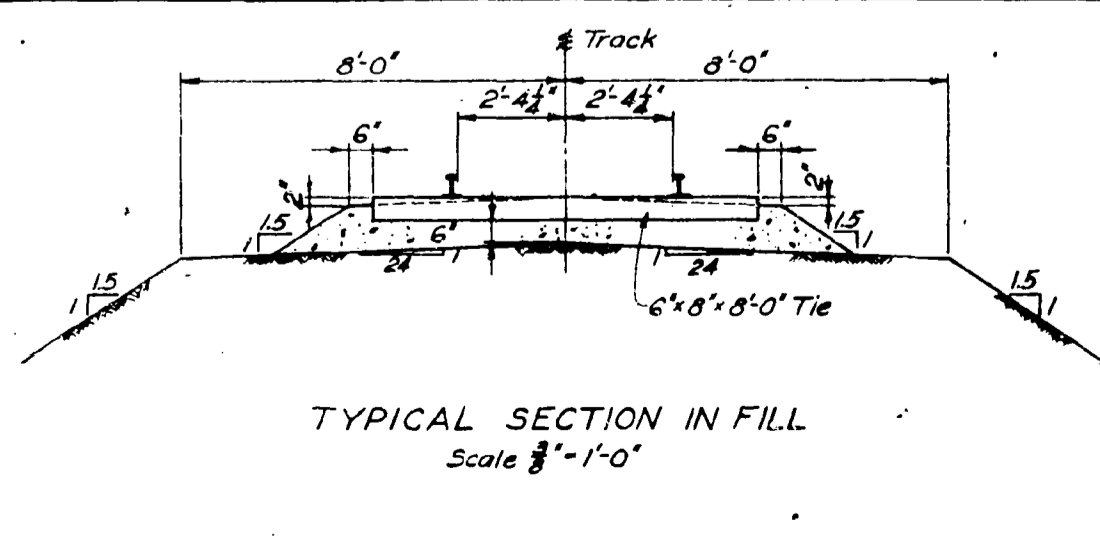
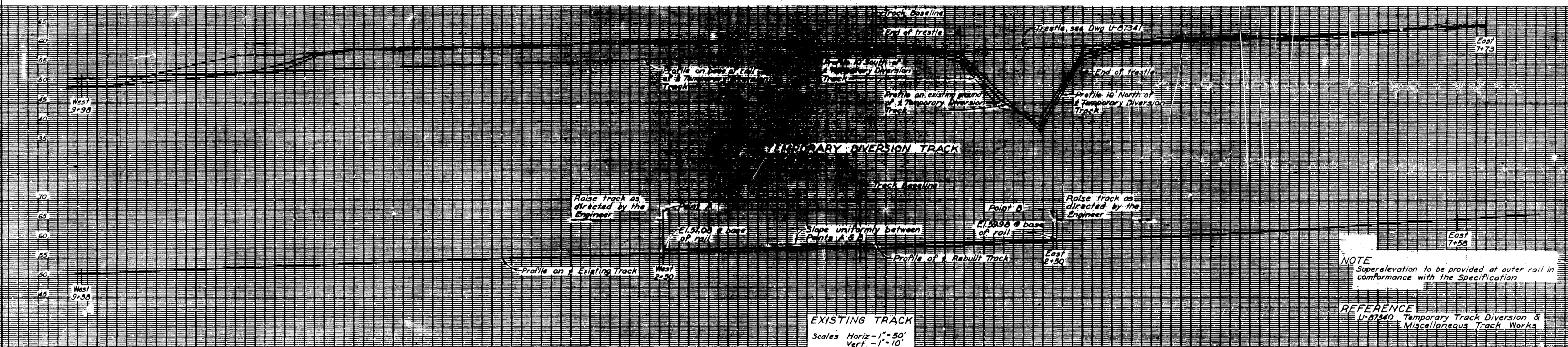
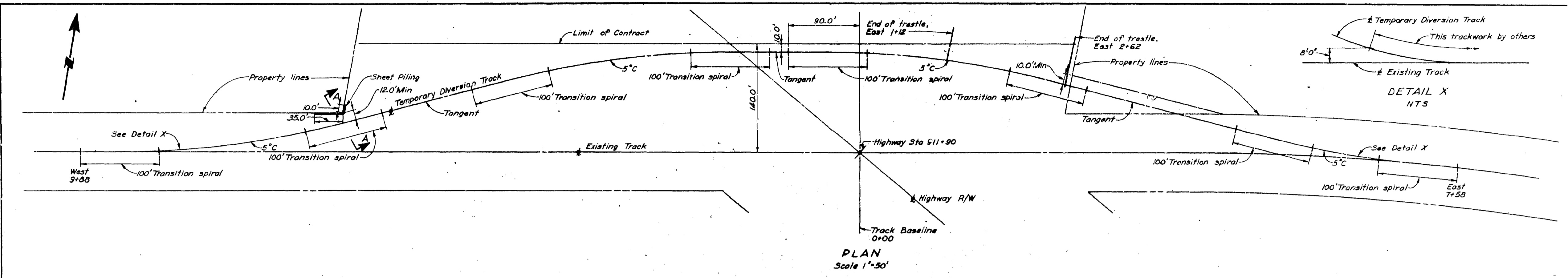
NOTES

1. Construction from B.C. and C.C. construction.
2. All bracing to be secured to piles.
3. All bracing to be secured to piles.
4. All bracing to be secured to piles.
5. All bracing to be secured to piles.

REFERENCES

U.S. Army





B.C. ELECTRIC CO. LTD. & ASSOCIATED COMPANIES	
B.C.E. UNDERPASS AT B.C.E. MILE 21.27, DISTRICT 3	
RAILWAY TRACK LAYOUT PLAN, PROFILES & SECTIONS	
INTERNATIONAL POWER & ENGINEERING CONSULTANTS LTD. VANCOUVER, B.C.	
DESIGNED BY: [Signature]	SCALE: As Noted
CHECKED: ABH	DATE: 30 MAY 1961
INVESTIGATED: A.F.H.	ENG. ASSIGN: 3059-002
RECOMMENDED: [Signature]	U-87342
APPROVED: [Signature]	



**ESTIMATED QUANTITIES (2 Underpass Structures)**

Select granular base	3100 Tons.
Crushed granular base	300 "
12" Perforated drainage pipe (16ga)	900 Lin. ft.
42" R.C. Culvert (RR extra strength circ.)	120 "
Lightweight granular backfill	550 Tons.
Pit run gravel	2200 "
Crushed gravel, spec. clause 2.04	260 "
6 Mil. polyethylene membrane	24,000 Sq. ft.

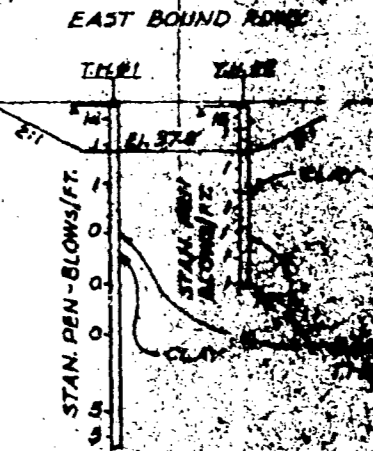
**NOTE "A"**  
Back-fill material shall consist of 50% coated hard-shell expanded shale aggregate, 1" to 1 1/2" weighing not more than 36 lbs./cu. ft. and 50% of pit run gravel. See Spec. Clause 2.04.

**NOTE "C"**  
Slope as steep as will stand during construction, as specified by the Engineer.

**NOTE "B"**  
Back-fill material shall consist of 50% coated hard-shell expanded shale aggregate, 1" to 1 1/2" weighing not more than 36 lbs./cu. ft. and 50% of pit run gravel. See Spec. Clause 2.04.

Waterproofing see Spec. 1.14  
Crushed gravel, r/f. Spec. clause 2.04  
12" Perforated drainage pipe, typ.

Limit of payment for lightweight aggregate & pit run gravel baskets set by extent of Note A in plan & by these lines in section.

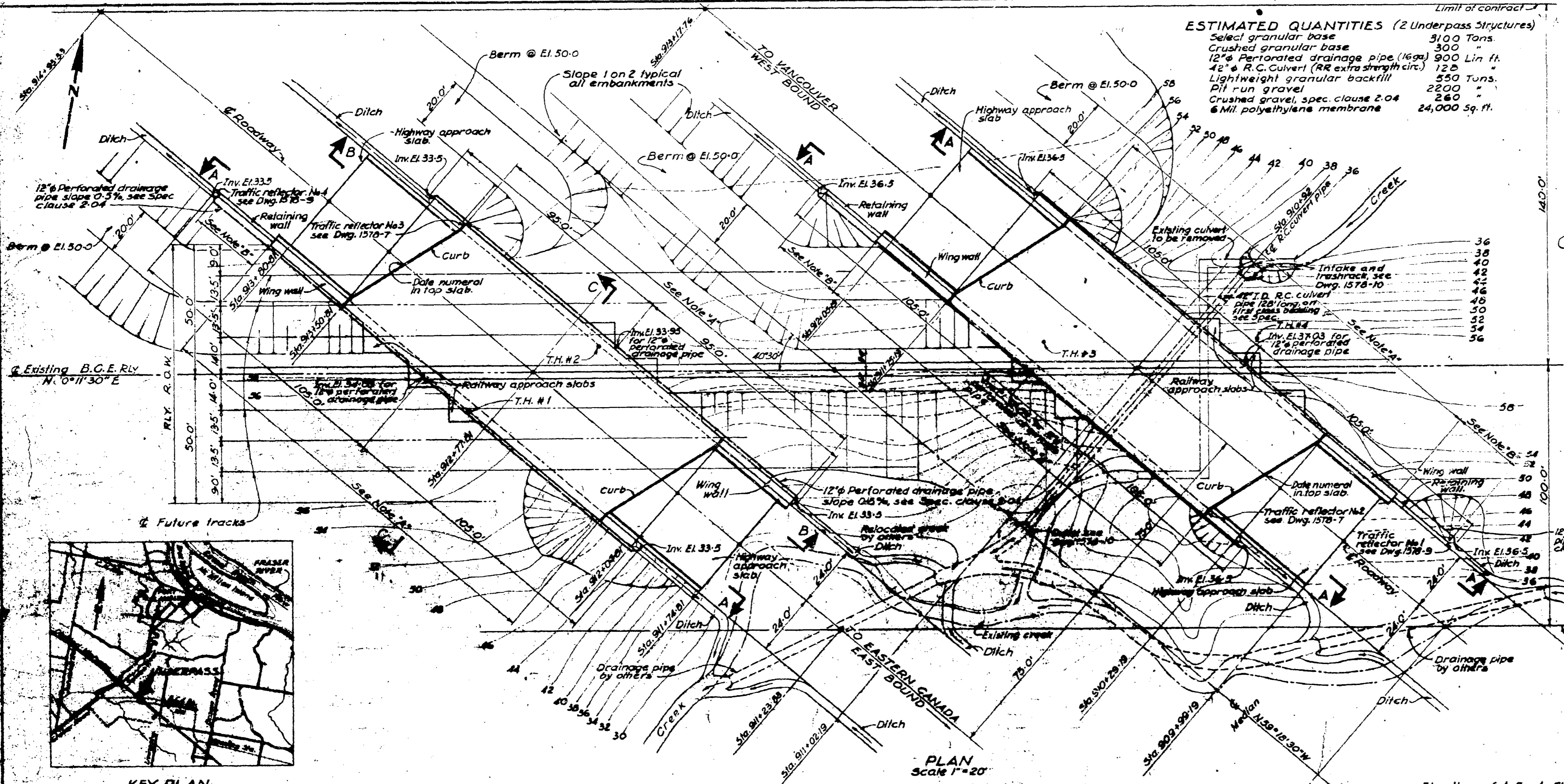


**REFERENCES**  
B.C. Dept. of Highways  
I.P.E.C. Dwg. U-67340  
Specification  
Dep. No. Bridges

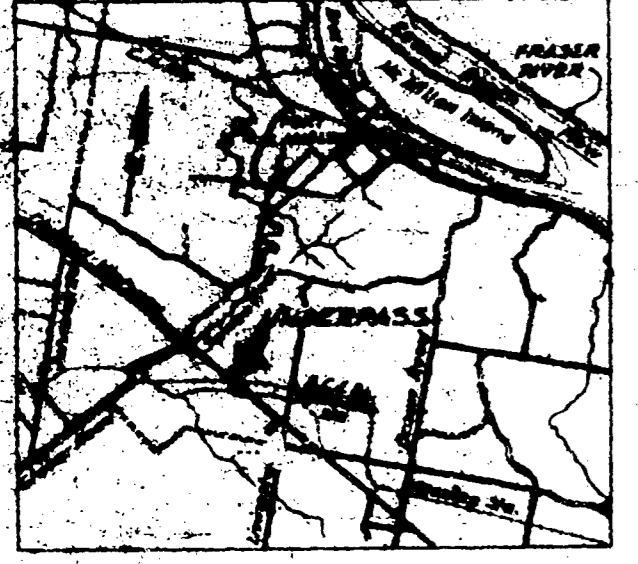
**Elevations of Road - Finished grade.**

Station	East Bound Lane	Station	West Bound Lane
914 + 93.38	37.82	908 + 26.71	40.25
913 + 80.81	36.07	907 + 28.12	40.25
913 + 50.81	38.13	910 + 28.12	39.25
912 + 50.00	38.33	911 + 00.00	39.25
912 + 28.81	38.51	911 + 28.12	38.25
911 + 24.81	38.70	912 + 00.00	38.25
911 + 23.83	38.17	913 + 17.76	38.17

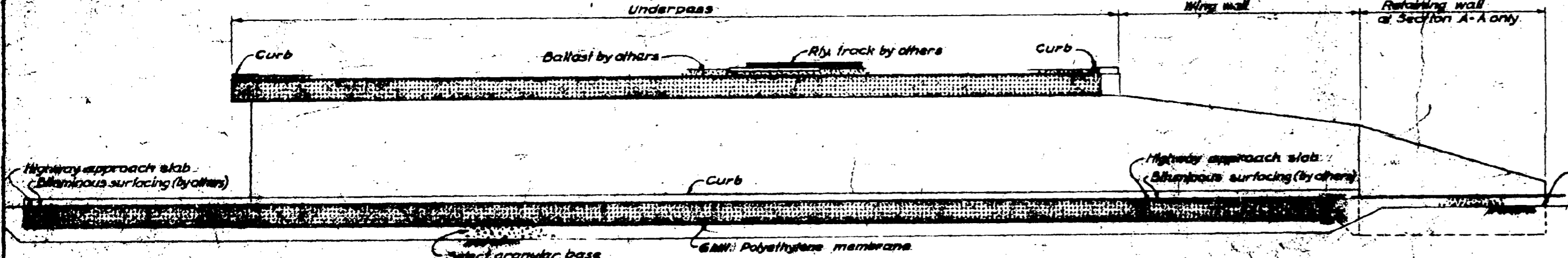
Note: Subtract 1.33' for subgrade elevations on highway sections.  
Uniform slope of 0.2% between stations 912+50.00 & 914+93.38  
Uniform slope of 0.2% between stations 911+00 & 913+17.76



**PLAN**  
Scale 1" = 20'



**KEY PLAN**  
Scale 1" = 1 Mile

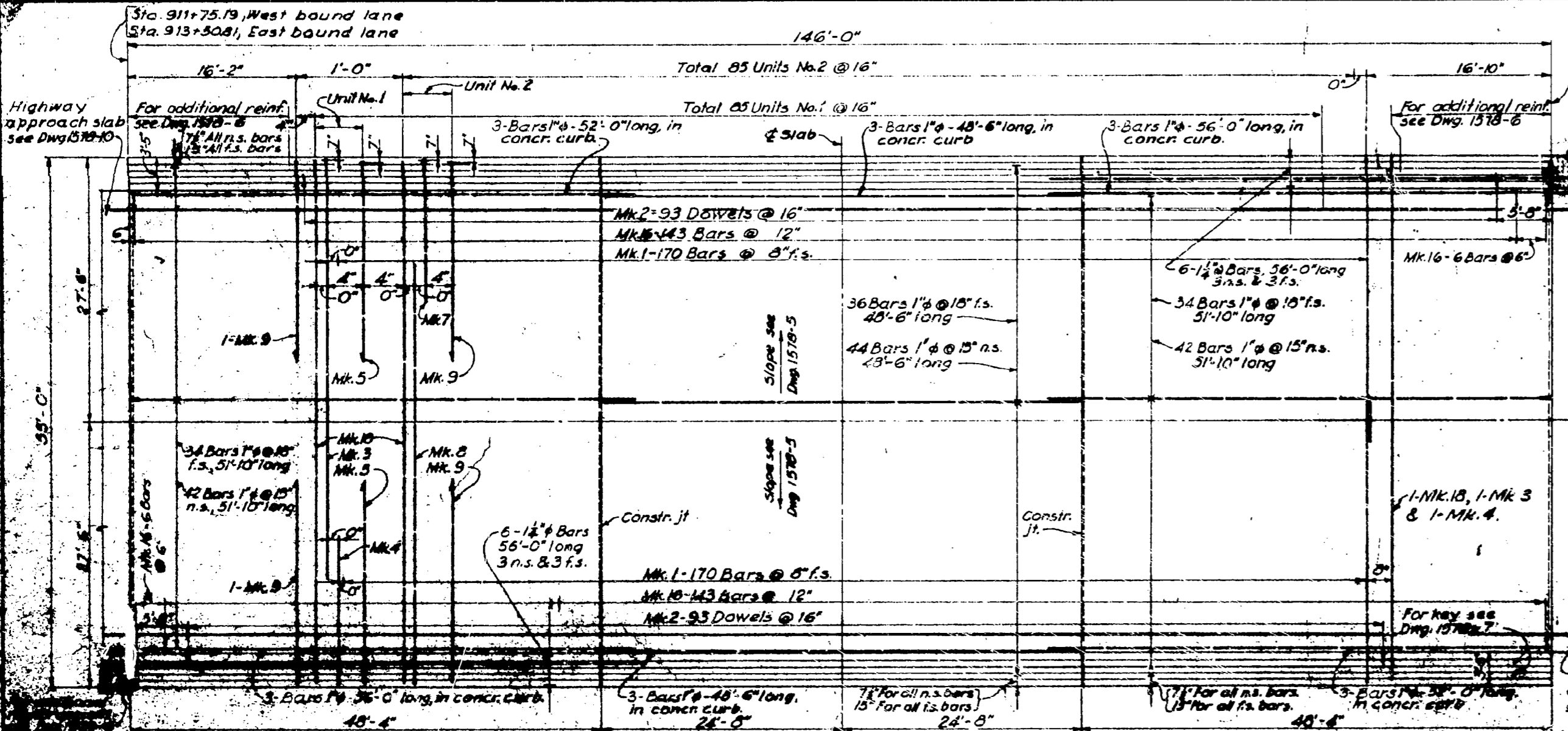


**SECTION A-A (R.C. Culvert pipe not shown)**  
**SECTION B-B Similar except as noted.**  
Scale 1" = 10'

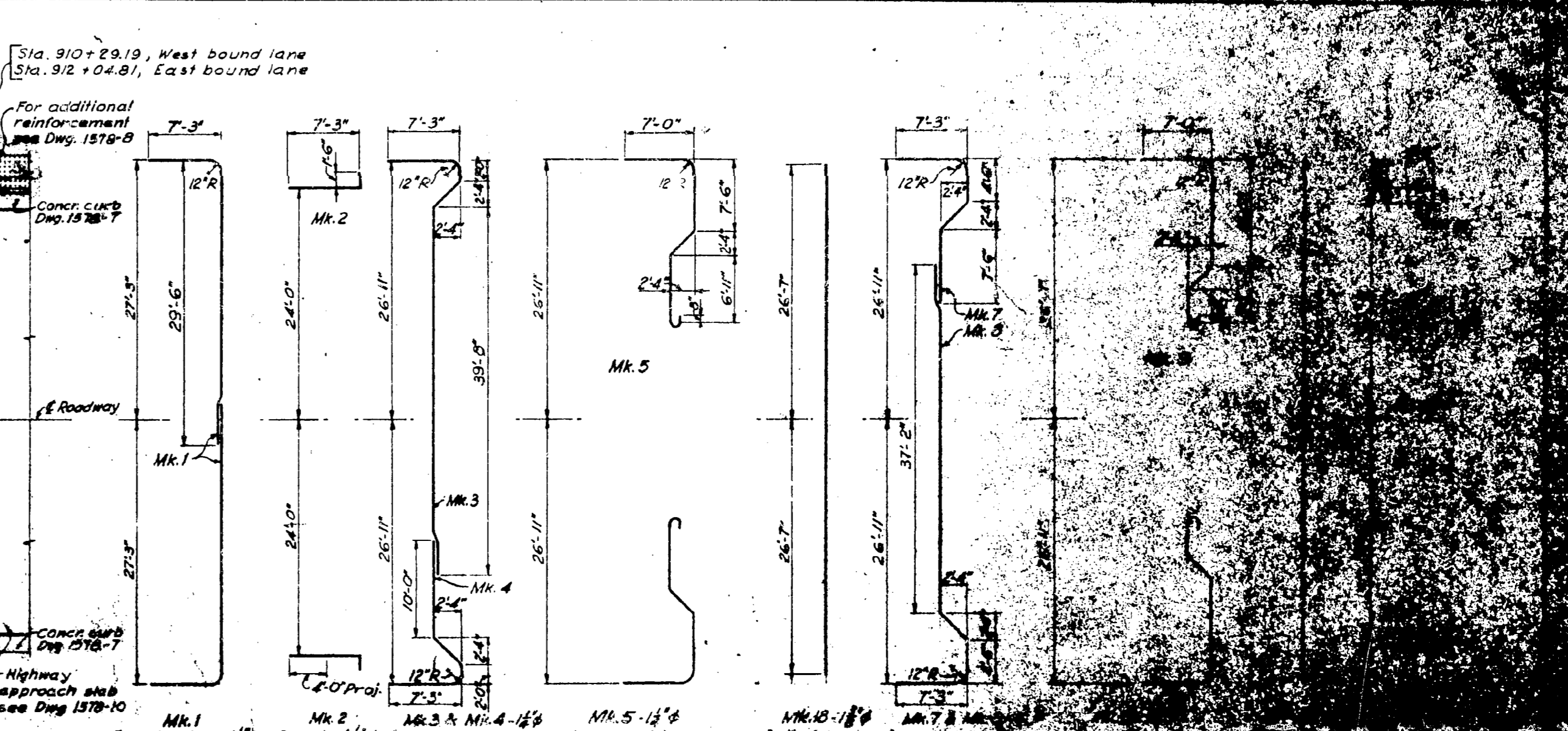
GENERAL ARRANGEMENTS APPROVED  
*[Signature]*  
Date: 1958

100171





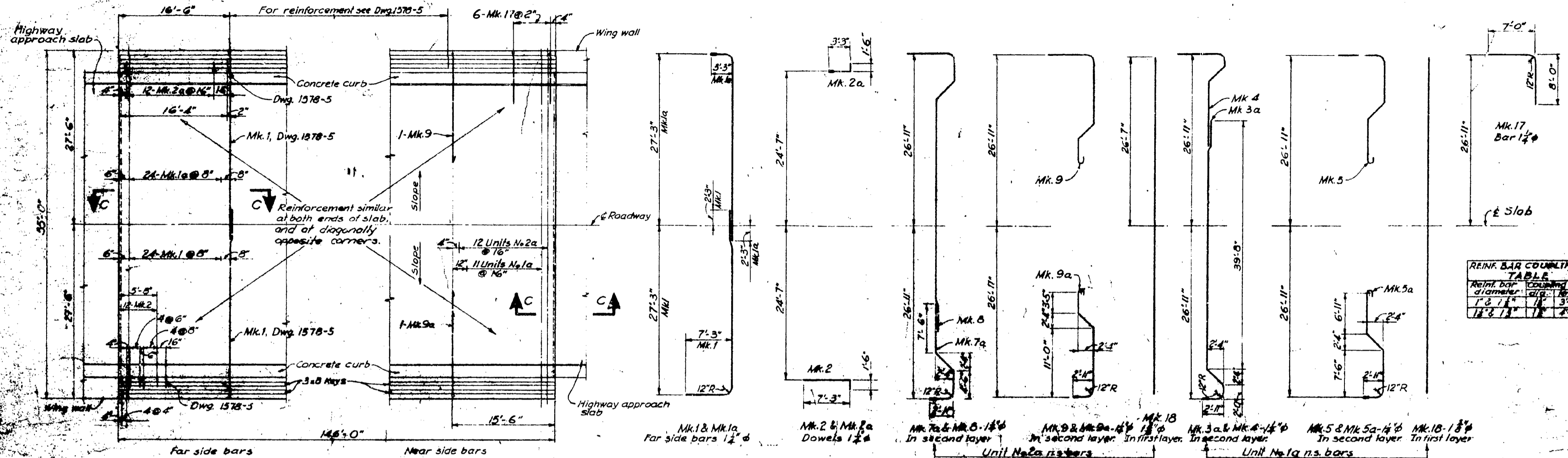
**BOTTOM SLAB**  
(Reinforcement spacing not to scale)  
Scale 1/4" = 1'-0"



**TOP SLAB**  
(Reinforcement spacing not to scale)  
Scale 1/4" = 1'-0"

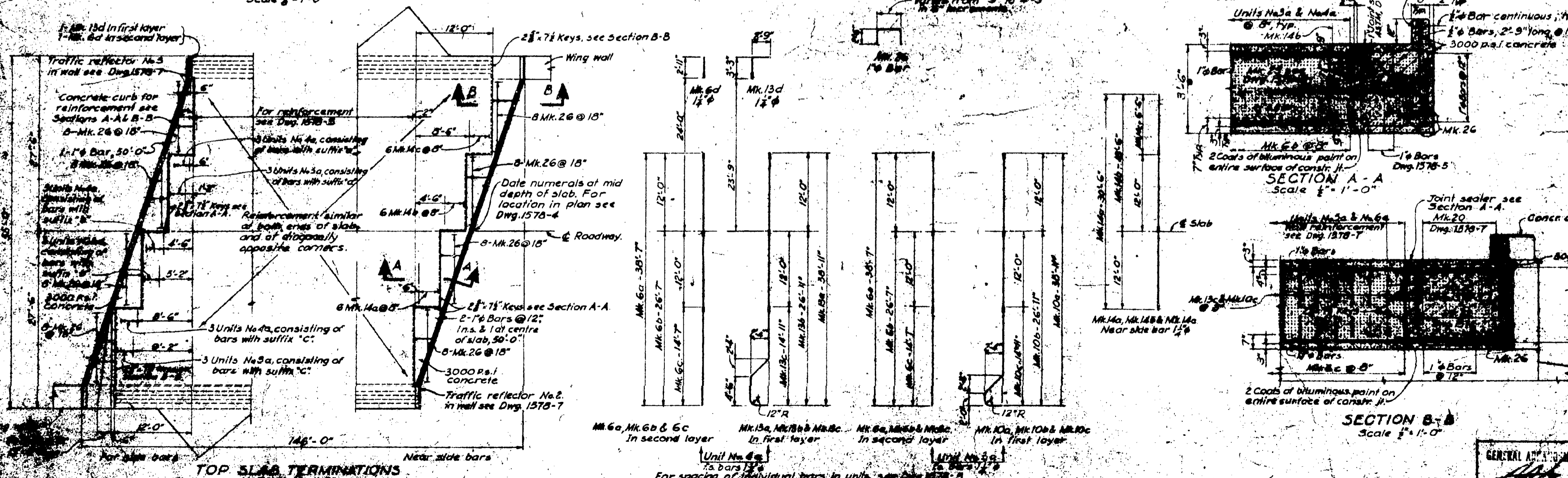
GENERAL CONTRACTOR'S APPROVAL





**BOTTOM SLAB TERMINATIONS**

Curb reinforcement not shown, see Dwg. 1578-7  
Scale 1/2" = 1'-0"

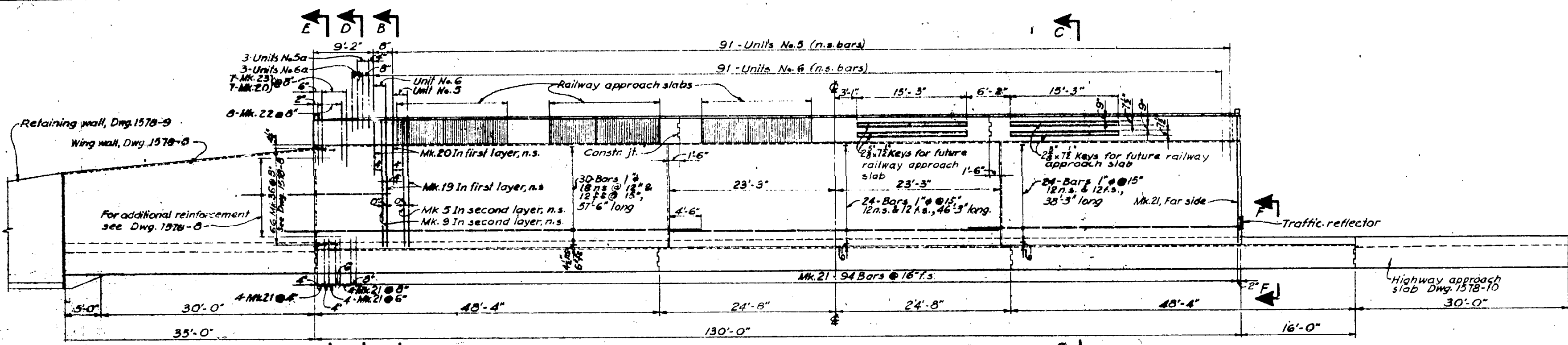


**TOP SLAB TERMINATIONS**

Scale 1/2" = 1'-0"

GENERAL APPROVED BY

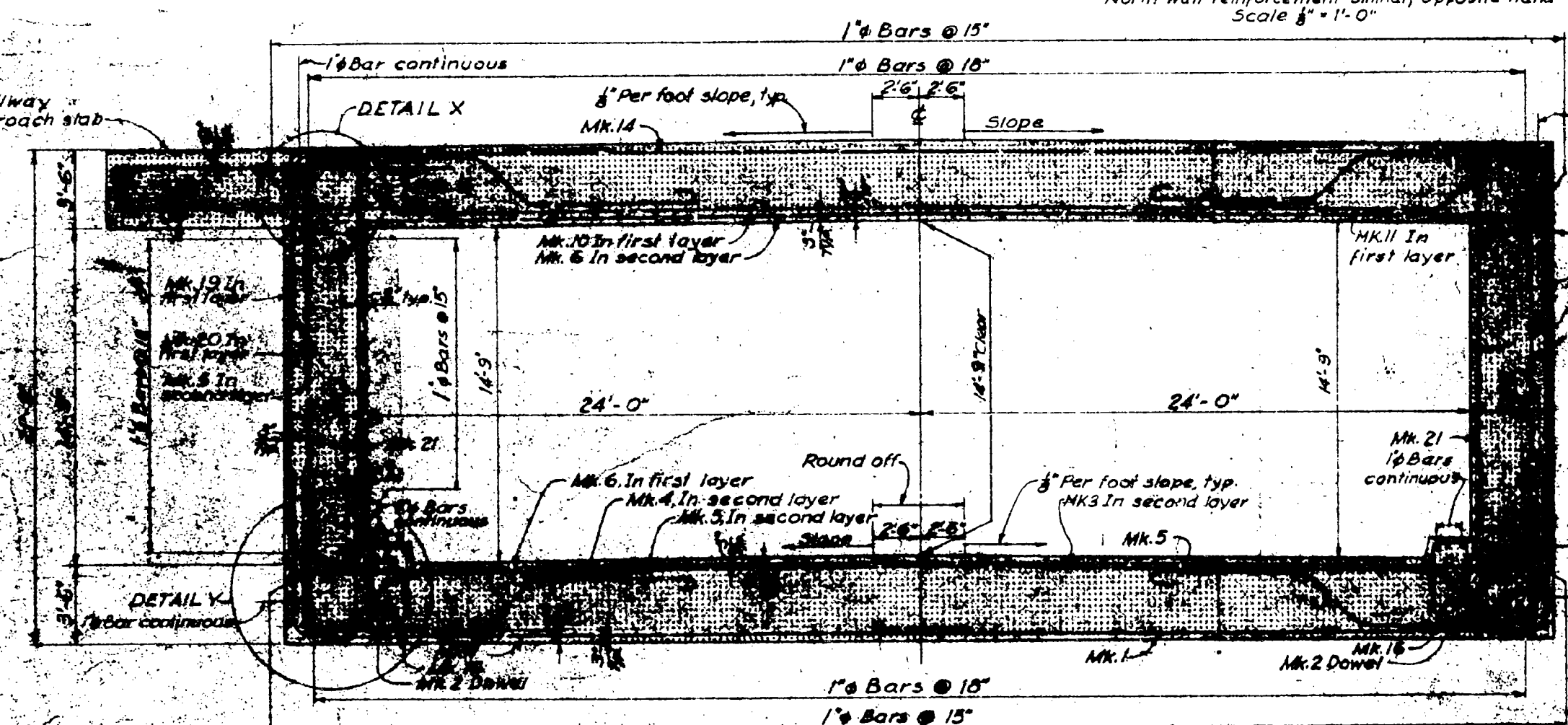




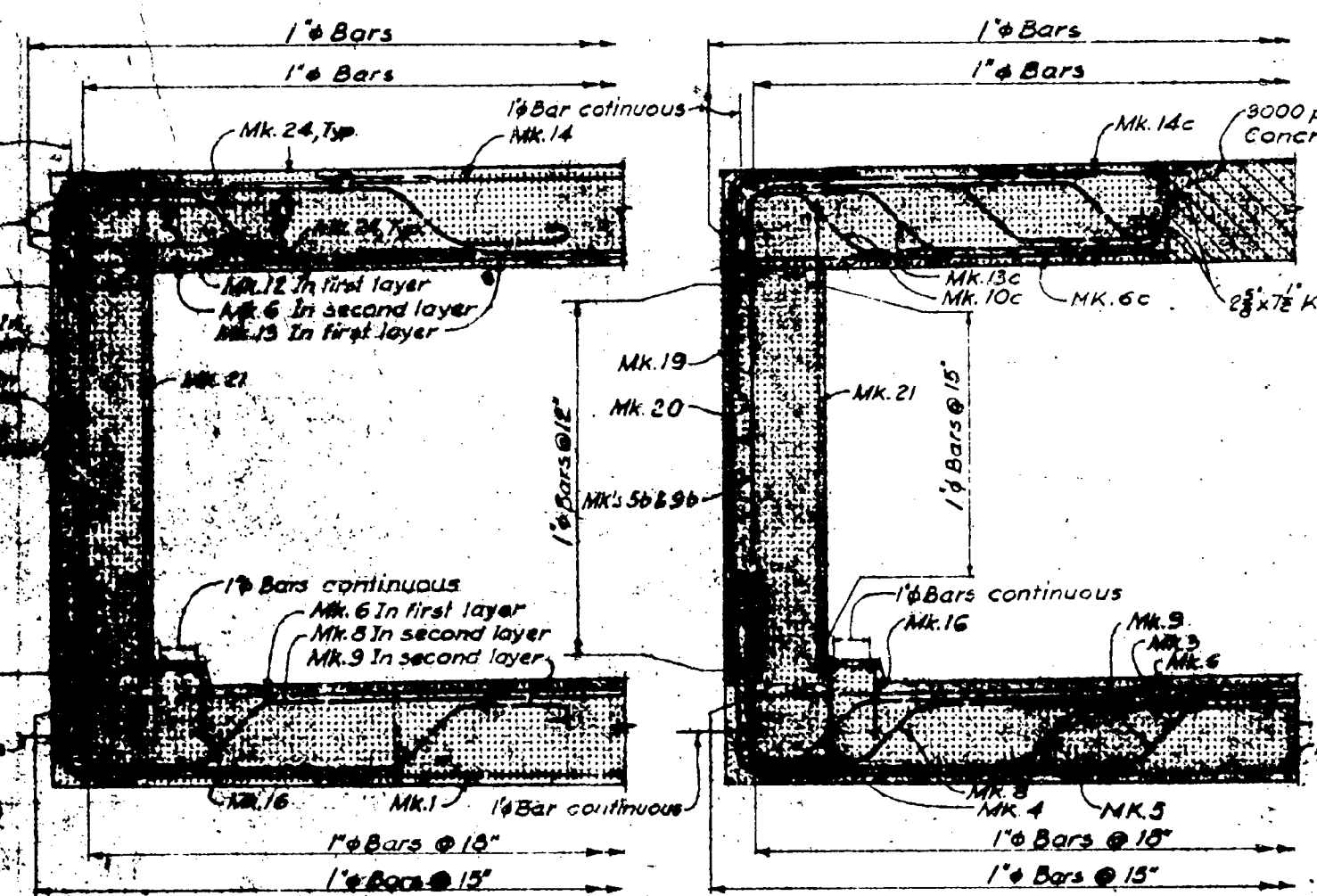
**ELEVATION A-A (Dwg. 1578-5)**  
 South wall reinforcement shown  
 North wall reinforcement similar, opposite hand  
 Scale  $\frac{1}{8}'' = 1'-0''$



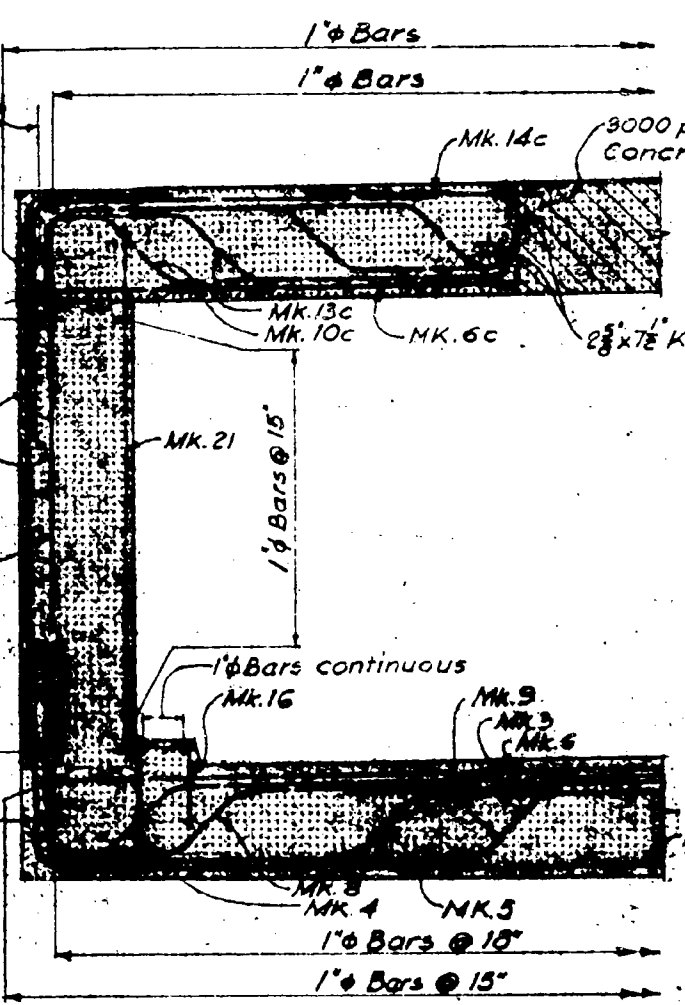
**SECTION E-E**  
 Slab reinforcement for structure  
 Scale  $\frac{1}{8}'' = 1'-0''$



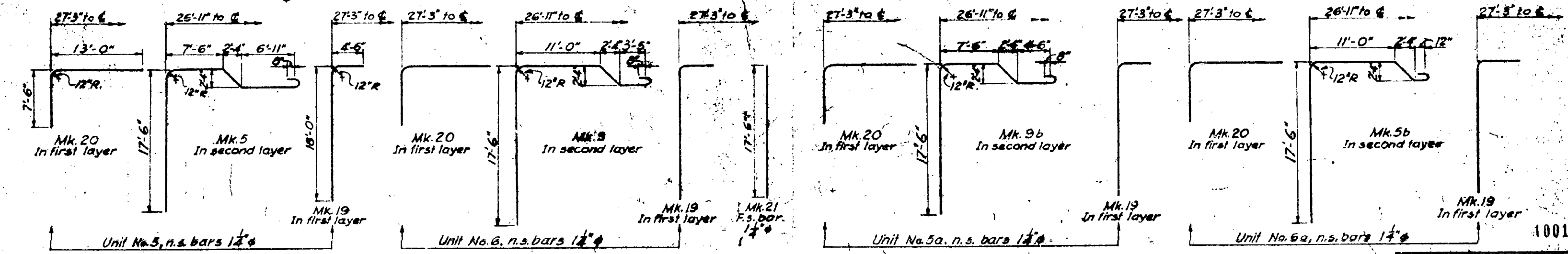
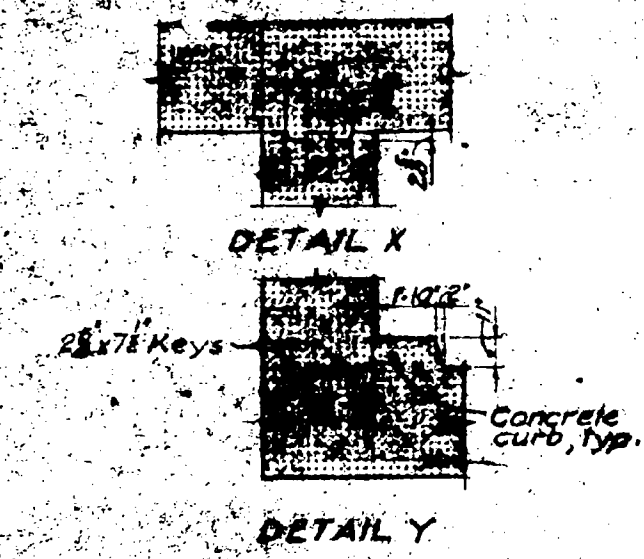
**SECTION B-B (Dwg. 1578-5)**  
 Scale  $\frac{1}{4}'' = 1'-0''$



**SECTION C-C**  
 Scale  $\frac{1}{4}'' = 1'-0''$

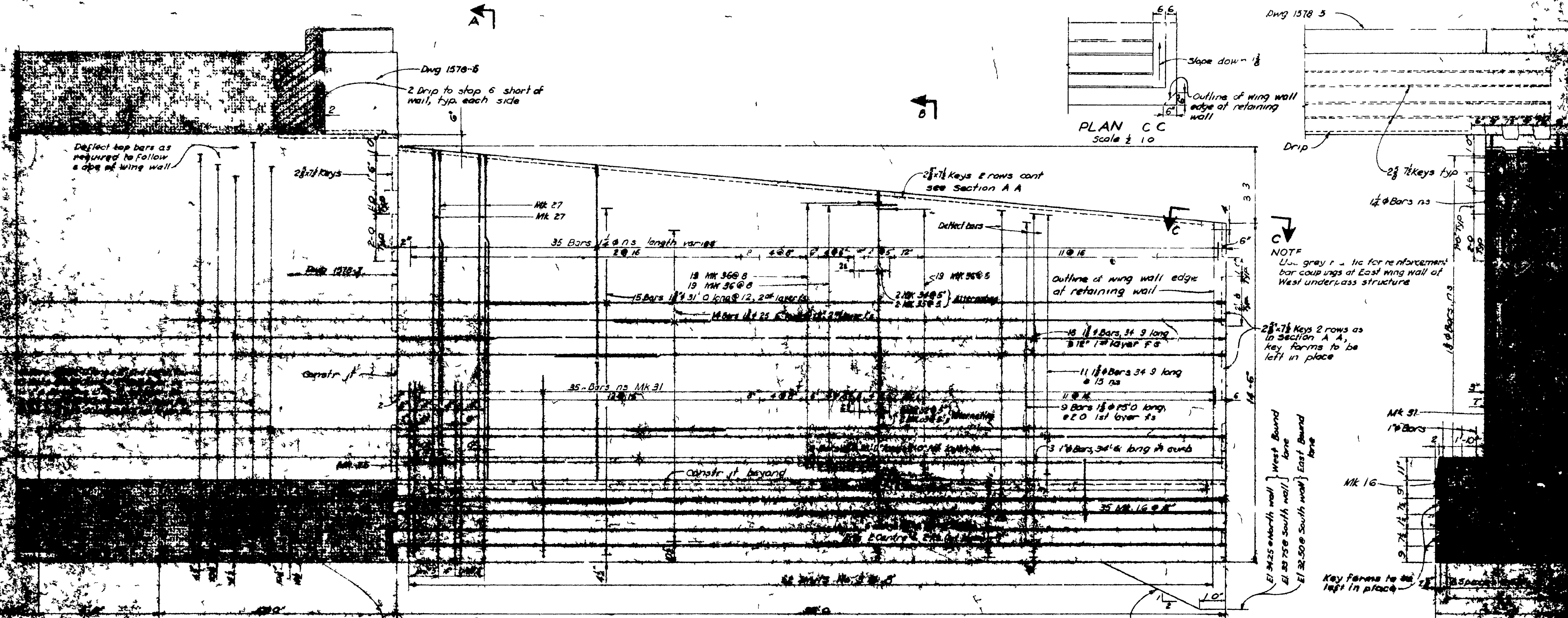


**SECTION D-D**  
 Scale  $\frac{1}{4}'' = 1'-0''$



GENERAL ARRANGEMENT APPROVED  
*[Signature]*  
 CHIEF ENGINEER, DEPT. OF HIGHWAYS

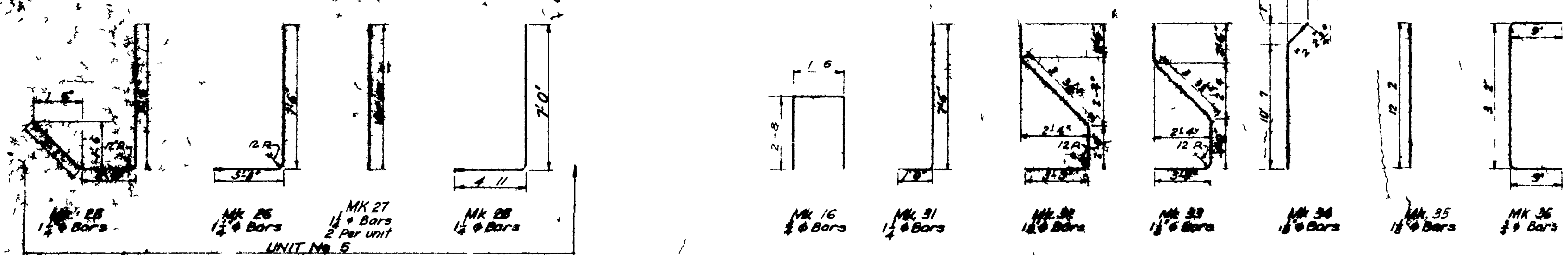
100174



**ELEVATION OF WING WALLS**  
(Highway approach slab not shown)  
Scale 1/2" = 1'-0"

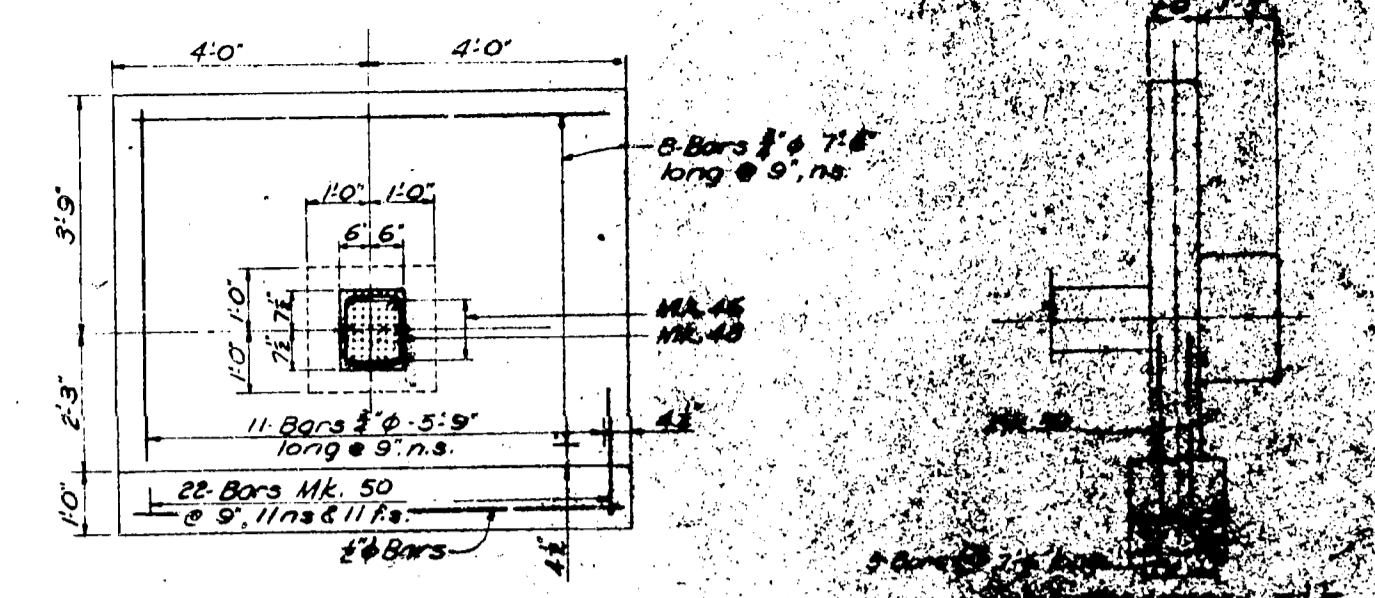
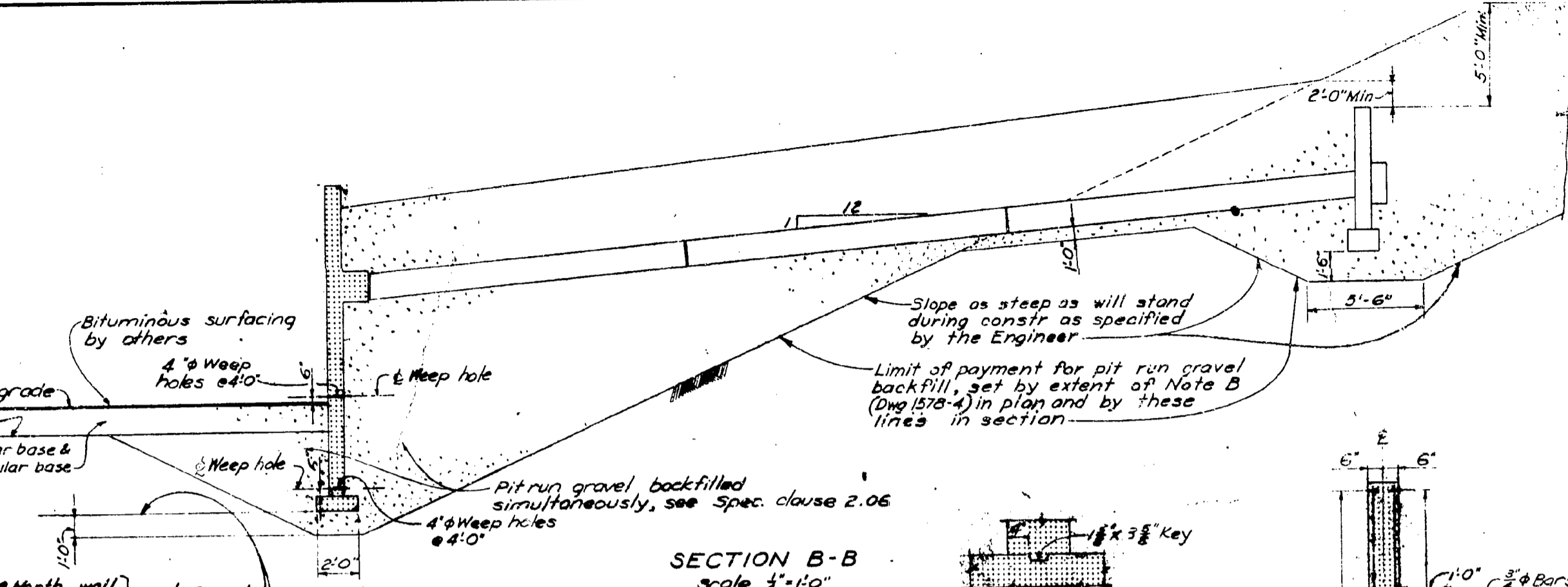
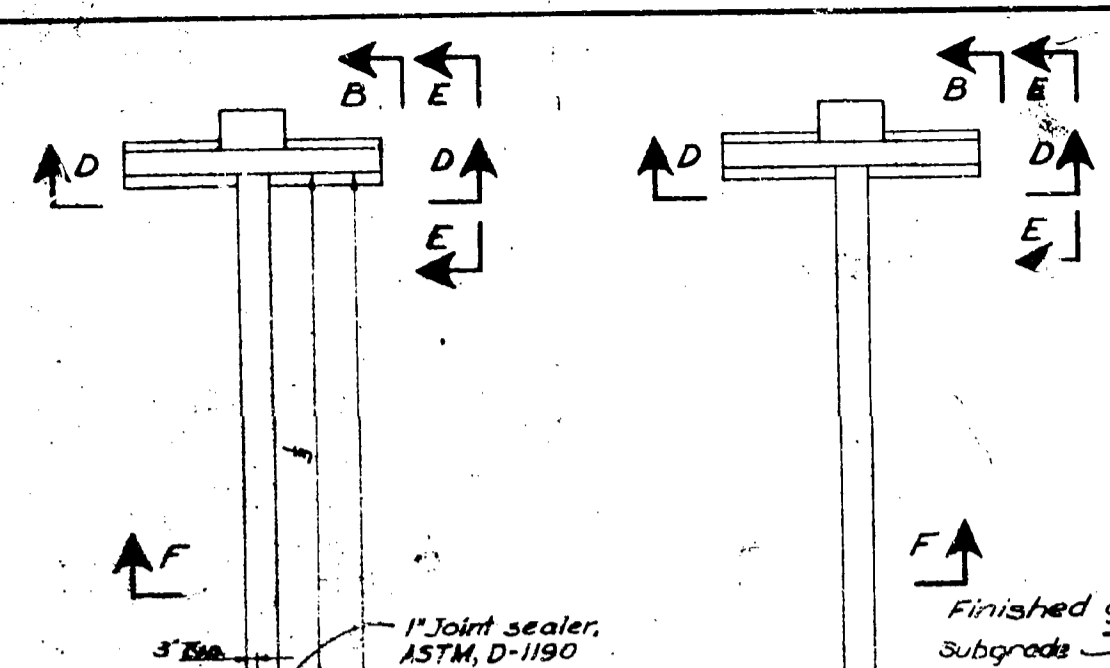
**NOTES**  
1 For general notes see Dwg 1570-6

**ESTIMATED QUANTITIES (4 Wing Walls)**  
5000 p.s.i. Concrete 355 cu yards  
Reinforcement 158,950 lbs.  
Bar couplings 40,475 lbs

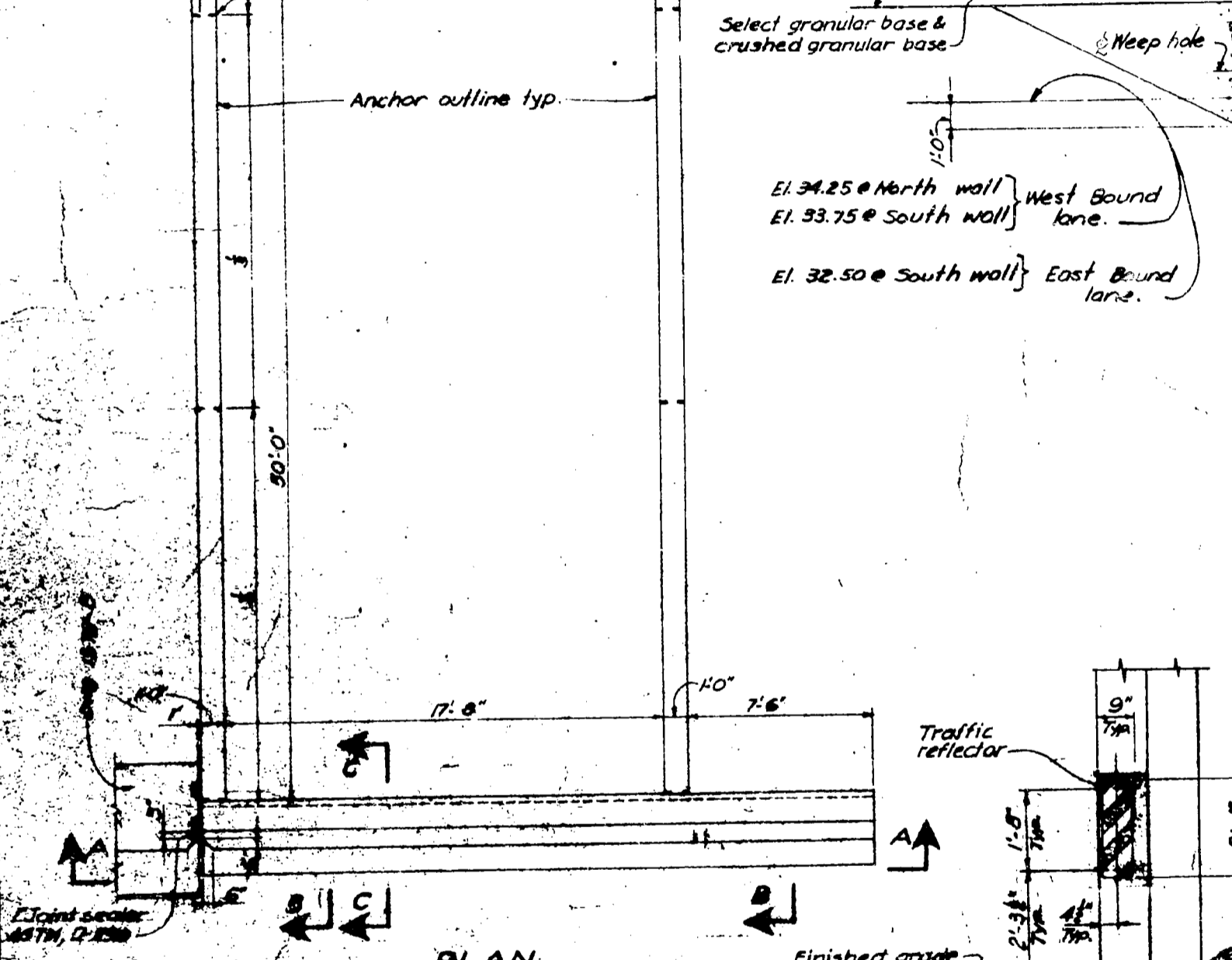


100175  
GENERAL APPROVAL  
ENCL EN OFF U HW 8

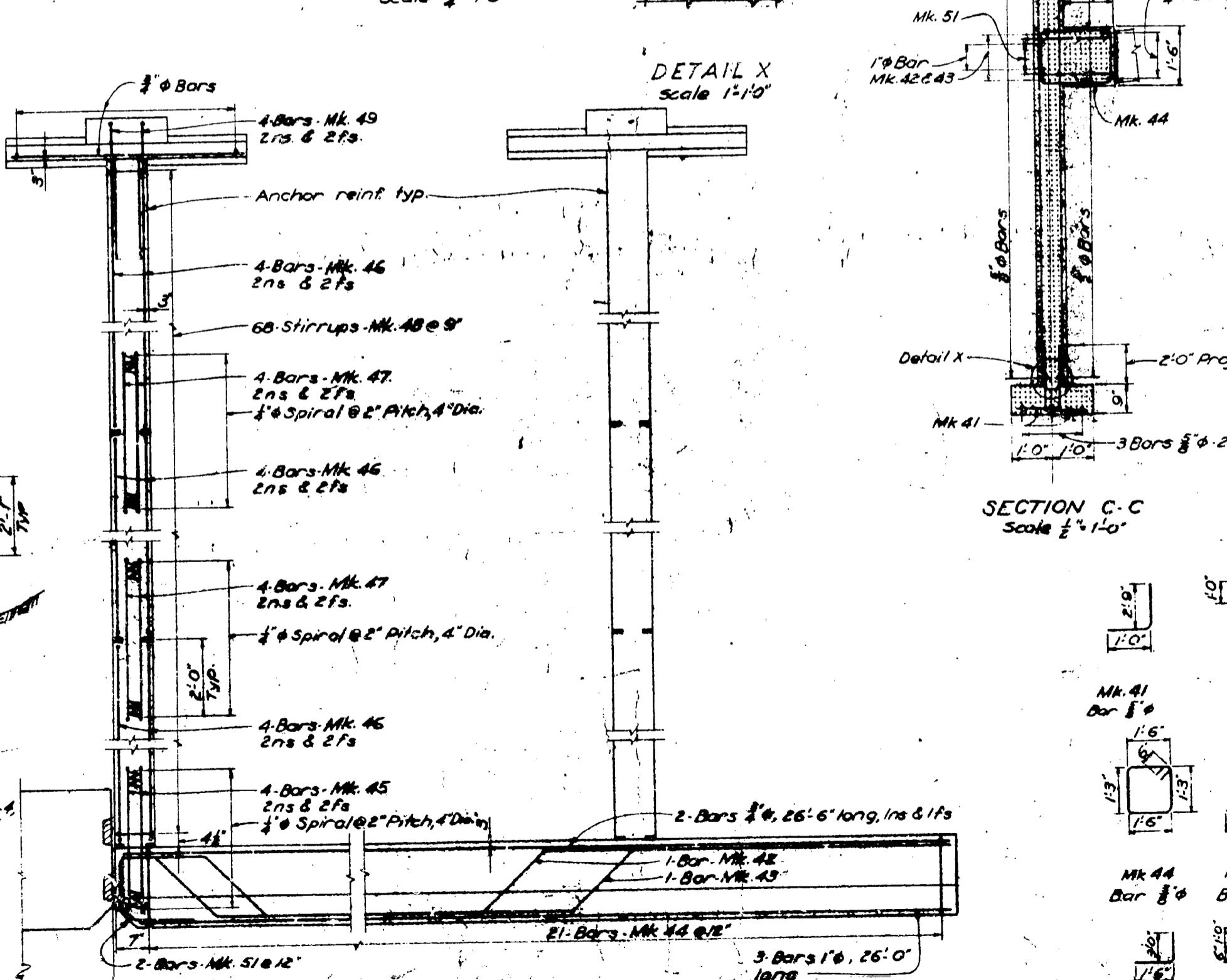




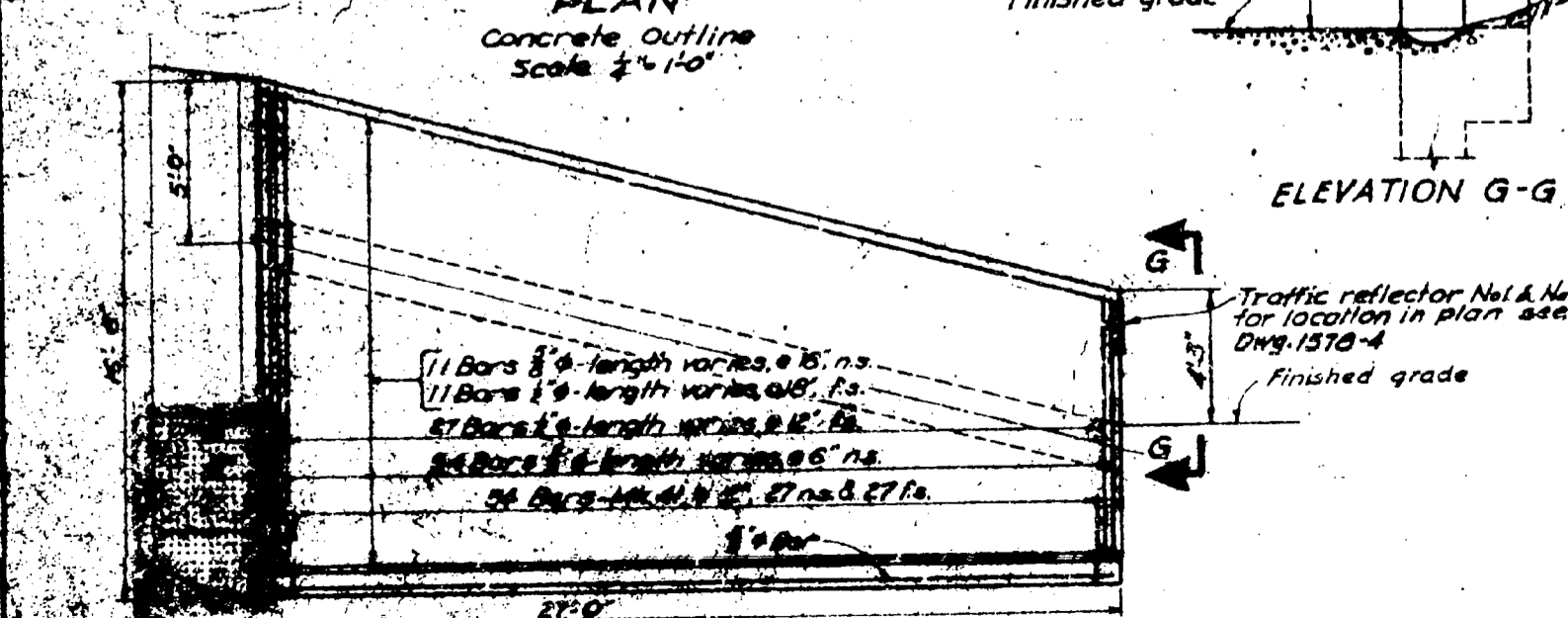
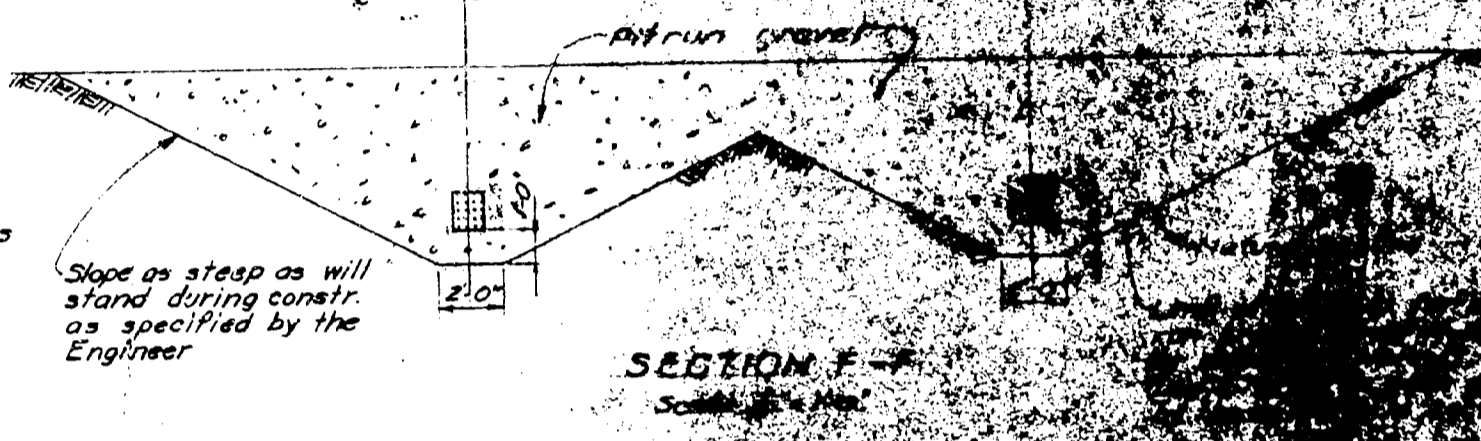
ELEVATION D-D  
Scale  $\frac{1}{2}$ " = 1'-0"



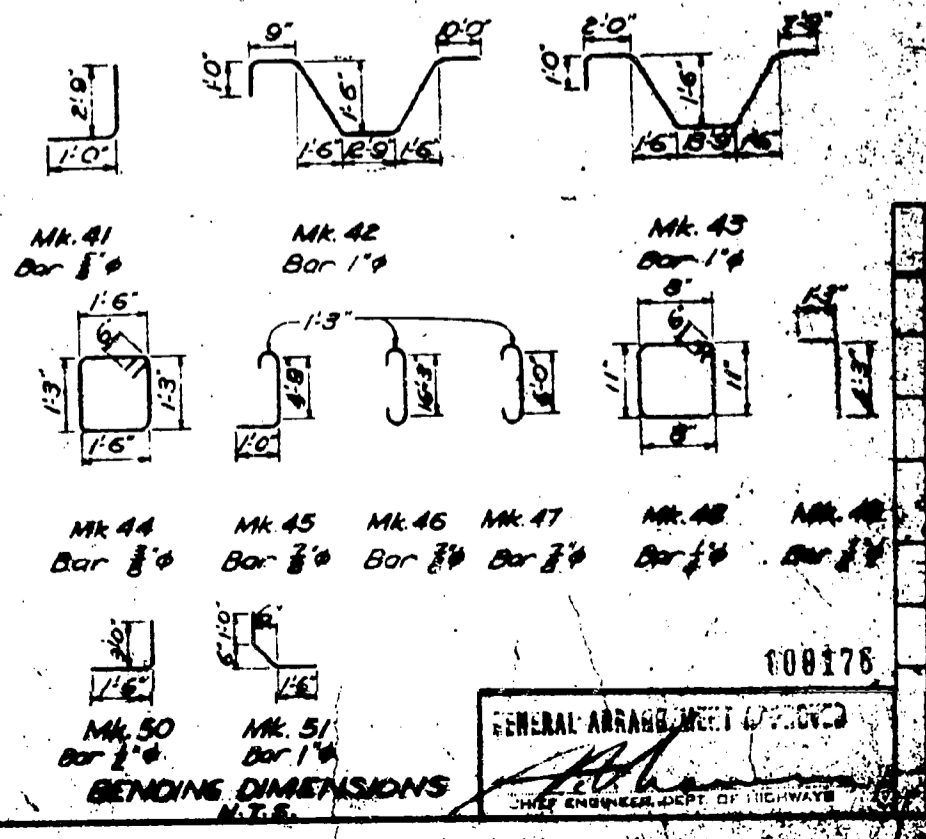
PLAN  
Concrete Outline  
Scale  $\frac{1}{2}$ " = 1'-0"



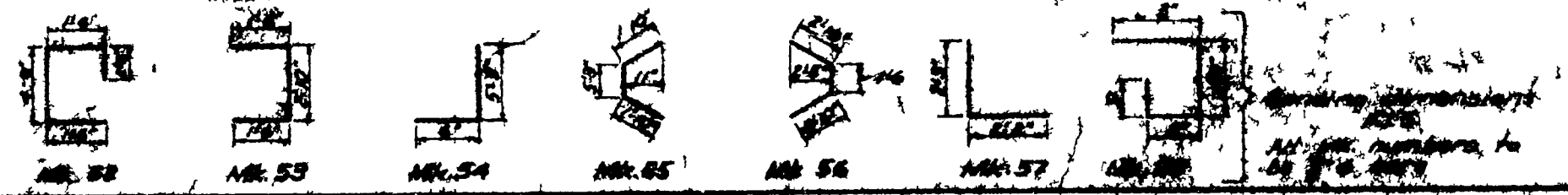
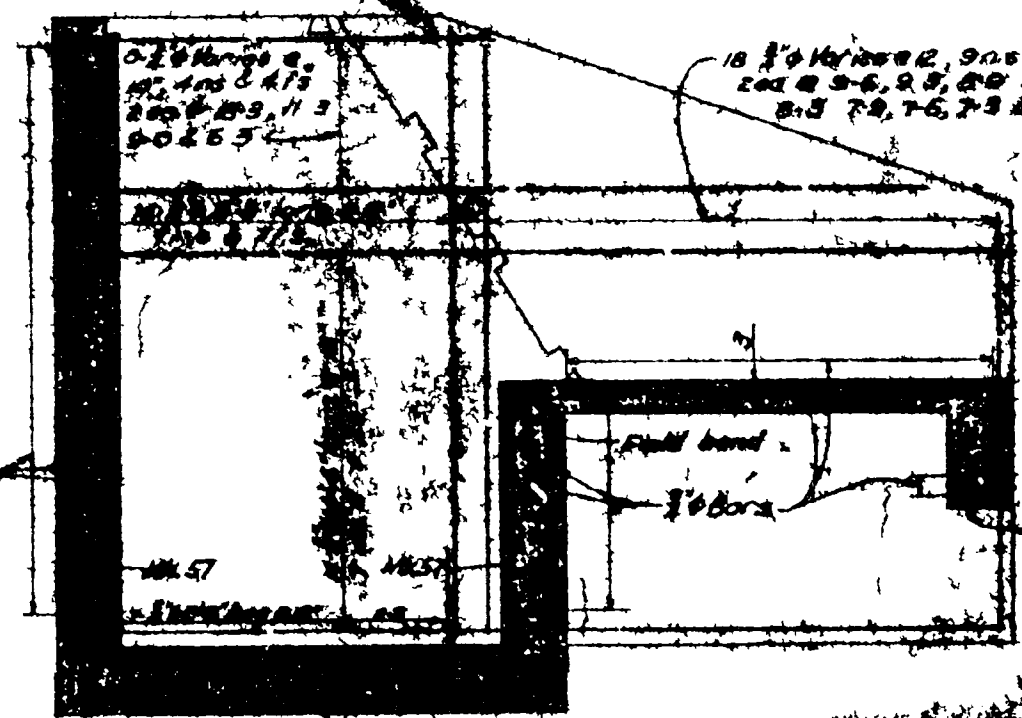
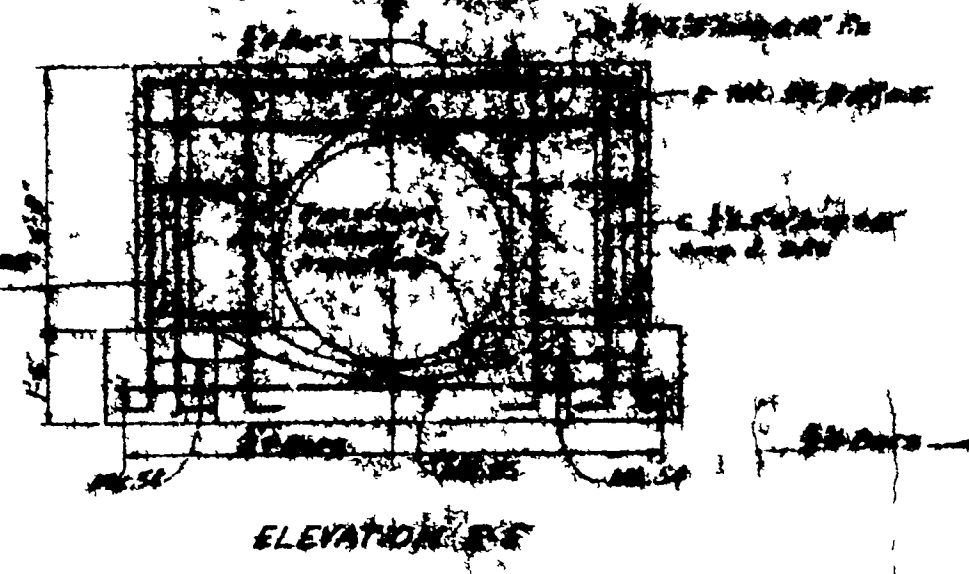
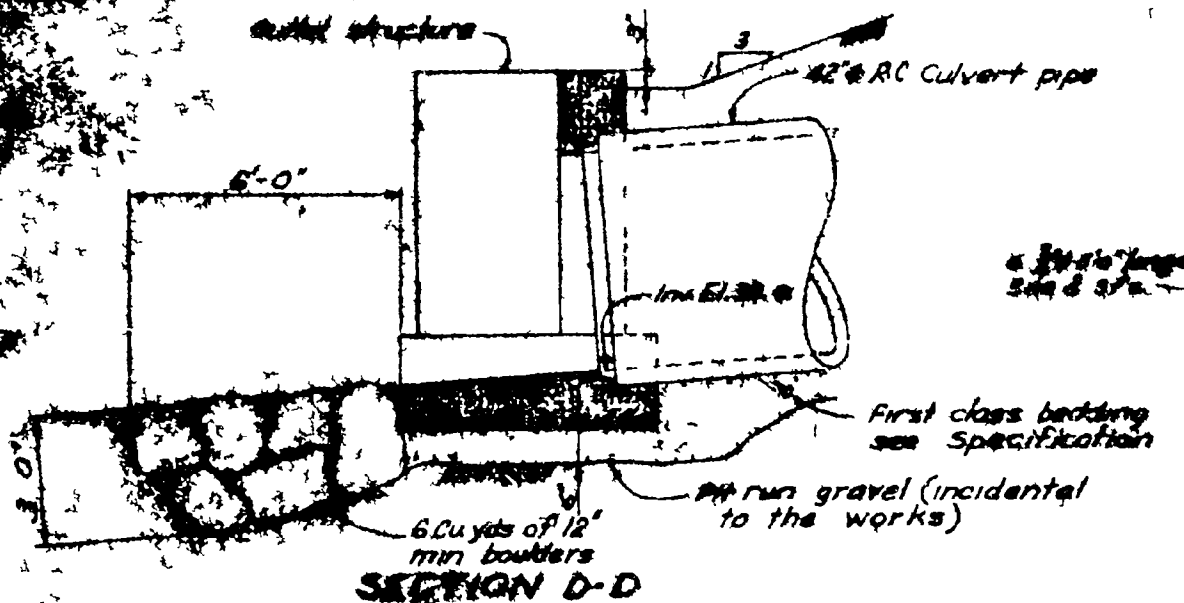
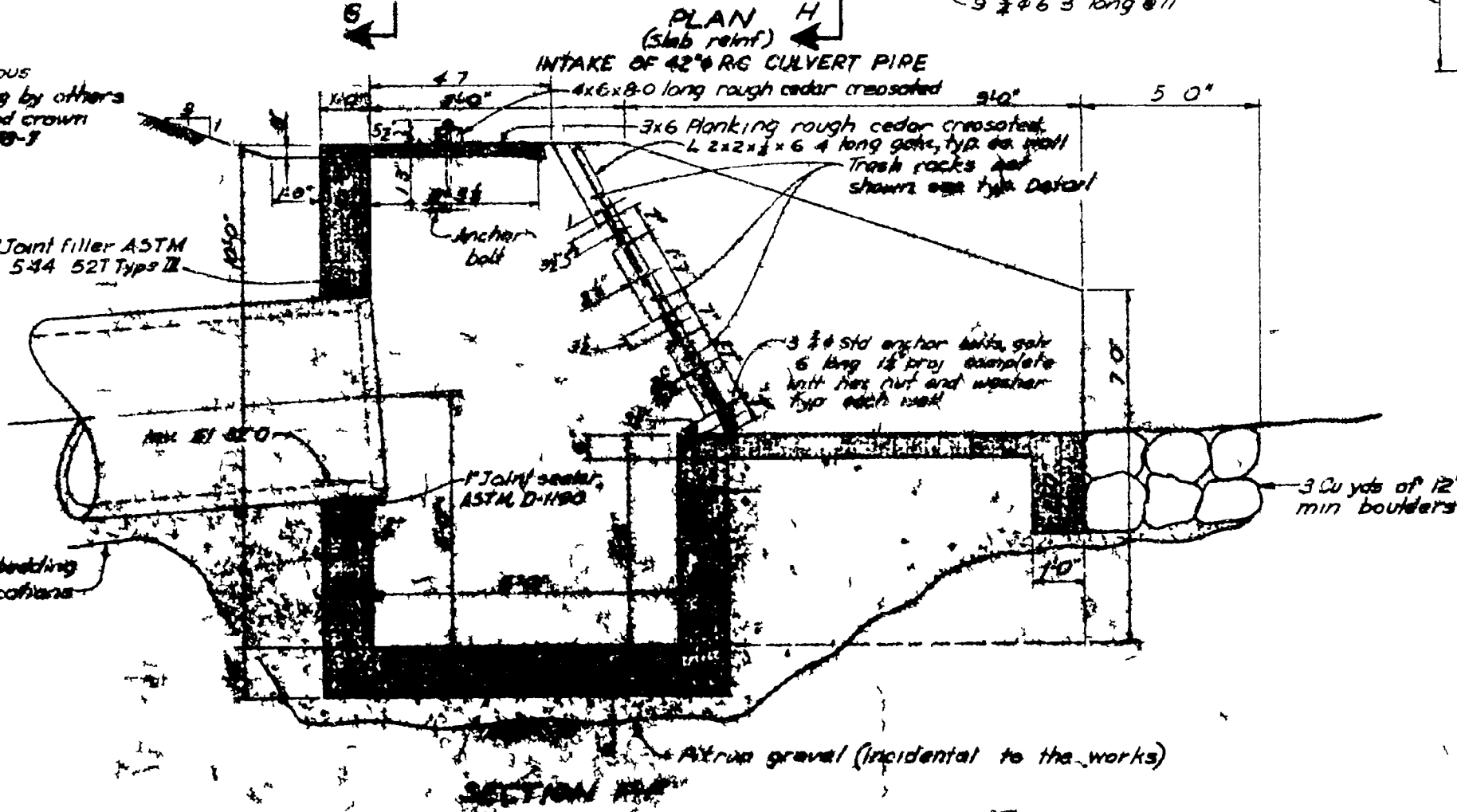
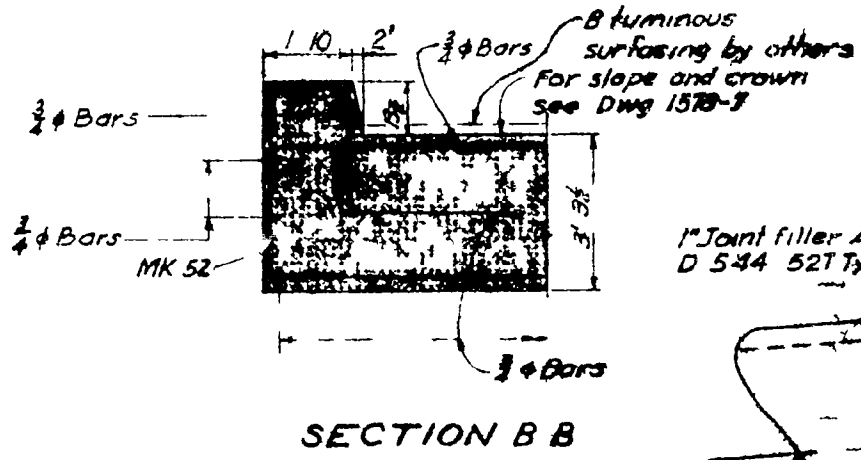
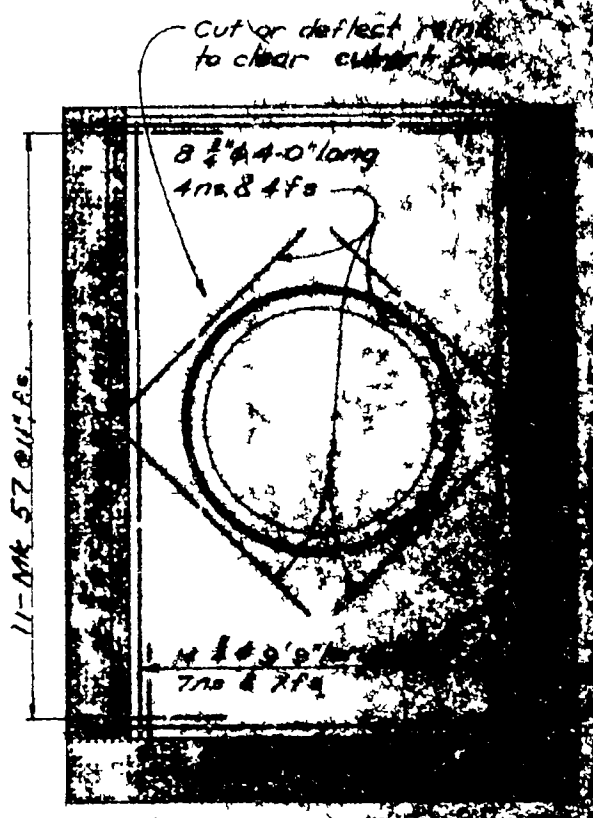
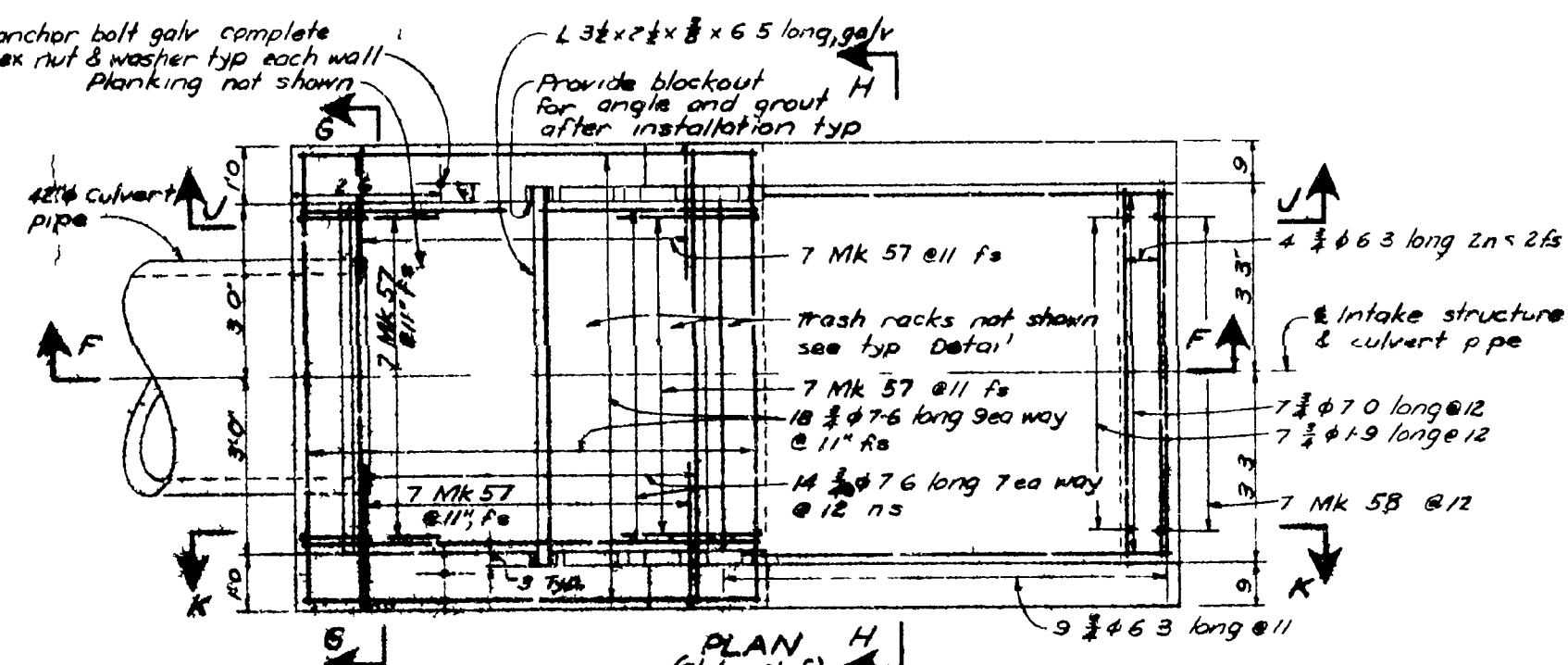
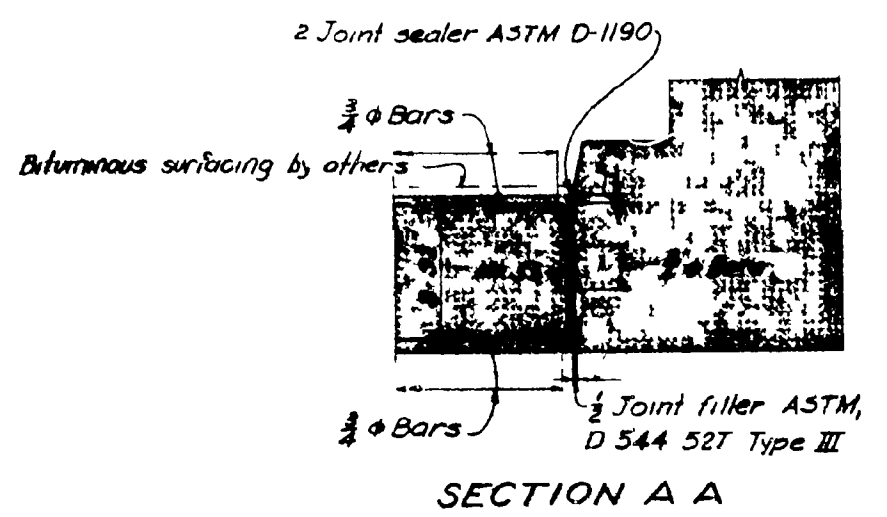
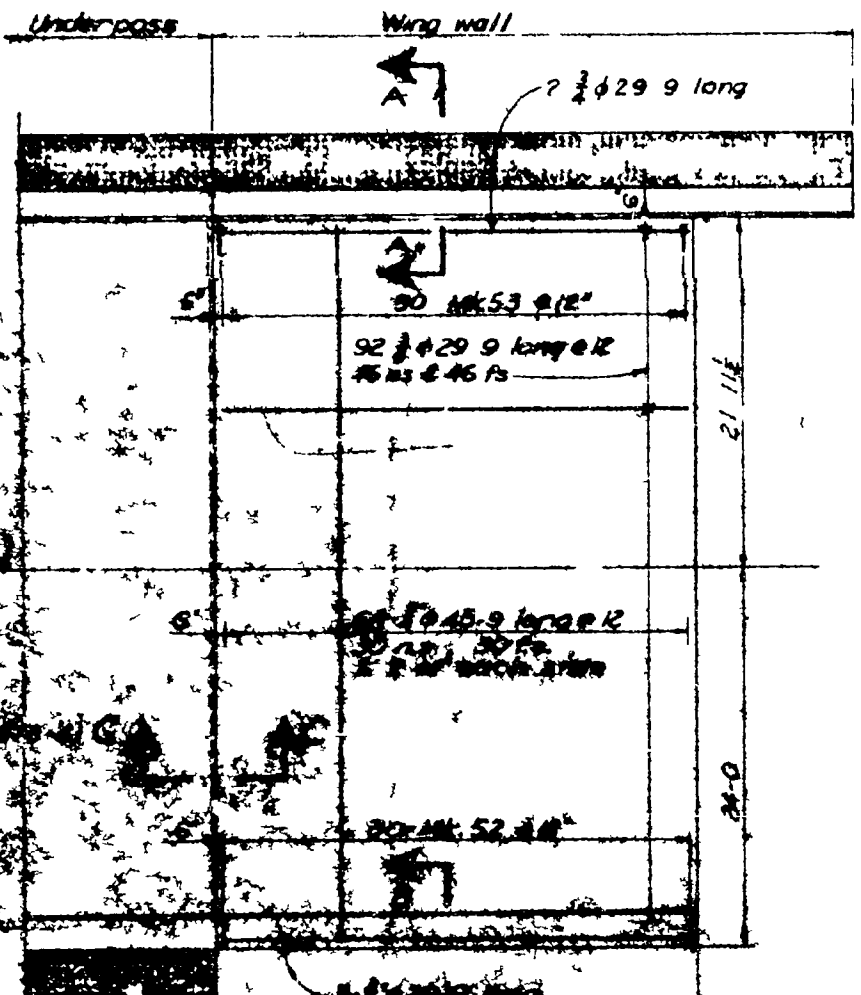
SECTION C-C  
Scale  $\frac{1}{2}$ " = 1'-0"



ELEVATION A-A  
Scale  $\frac{1}{2}$ " = 1'-0"



108178  
GENERAL ARRANGEMENT DRAWING  
SHEET ENGINEER, DEPT. OF HIGHWAYS

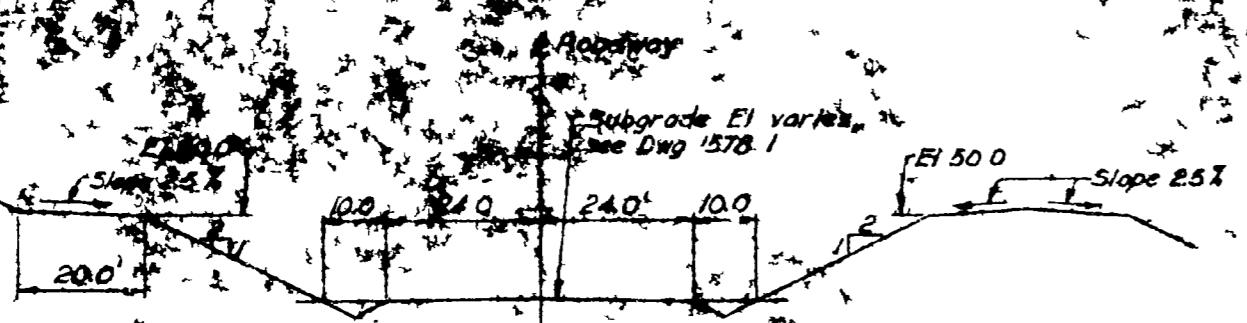
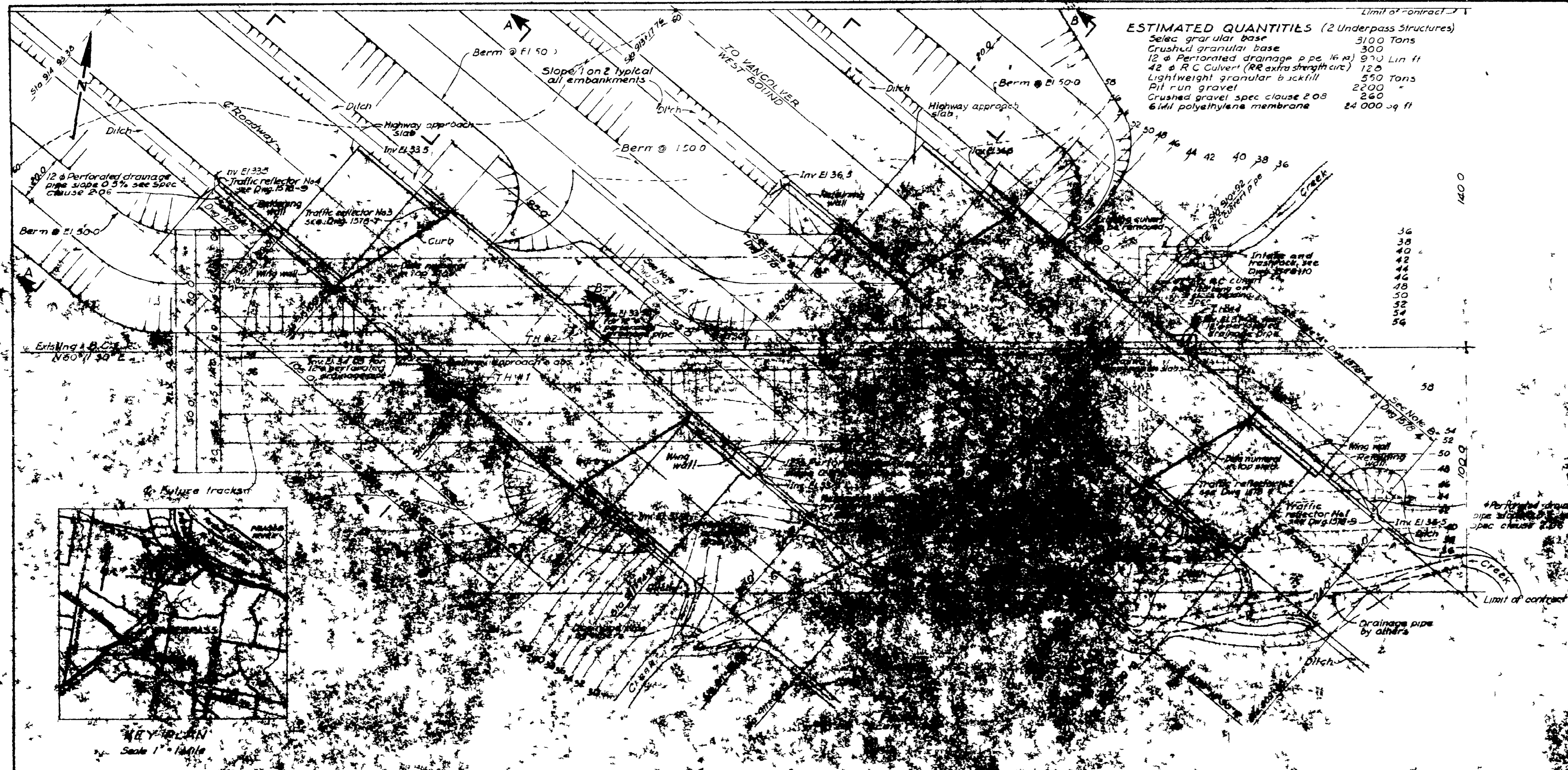


GENERAL CONTRACTOR APPROVAL  
DATE: \_\_\_\_\_  
SUPERVISOR DEPT. OF HIGHWAYS

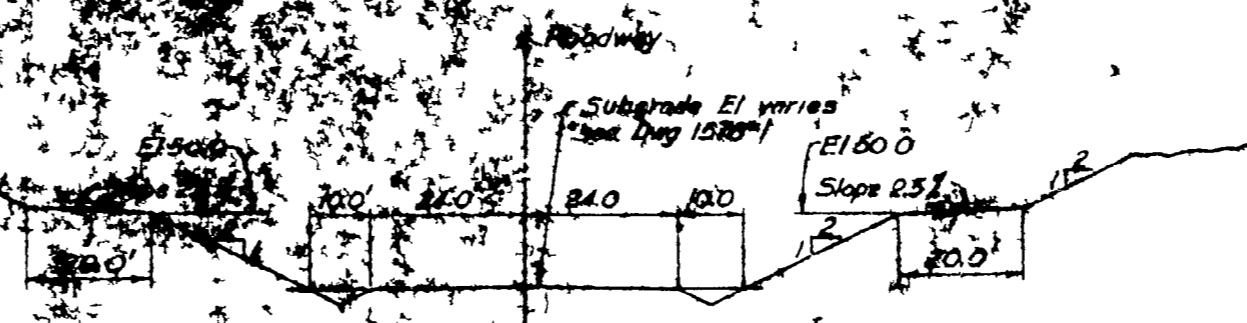


### ESTIMATED QUANTITIES (2 Underpass Structures)

Select granular base	3100 Tons
Crushed granular base	300
12" Perforated drainage pipe 16 ft	970 Lin ft
42" R.C. Culvert (RR extra strength)	120
Lightweight granular backfill	550 Tons
Pit run gravel	2200
Crushed gravel spec clause 2.08	260
6 Mil polyethylene membrane	24 000 sq ft



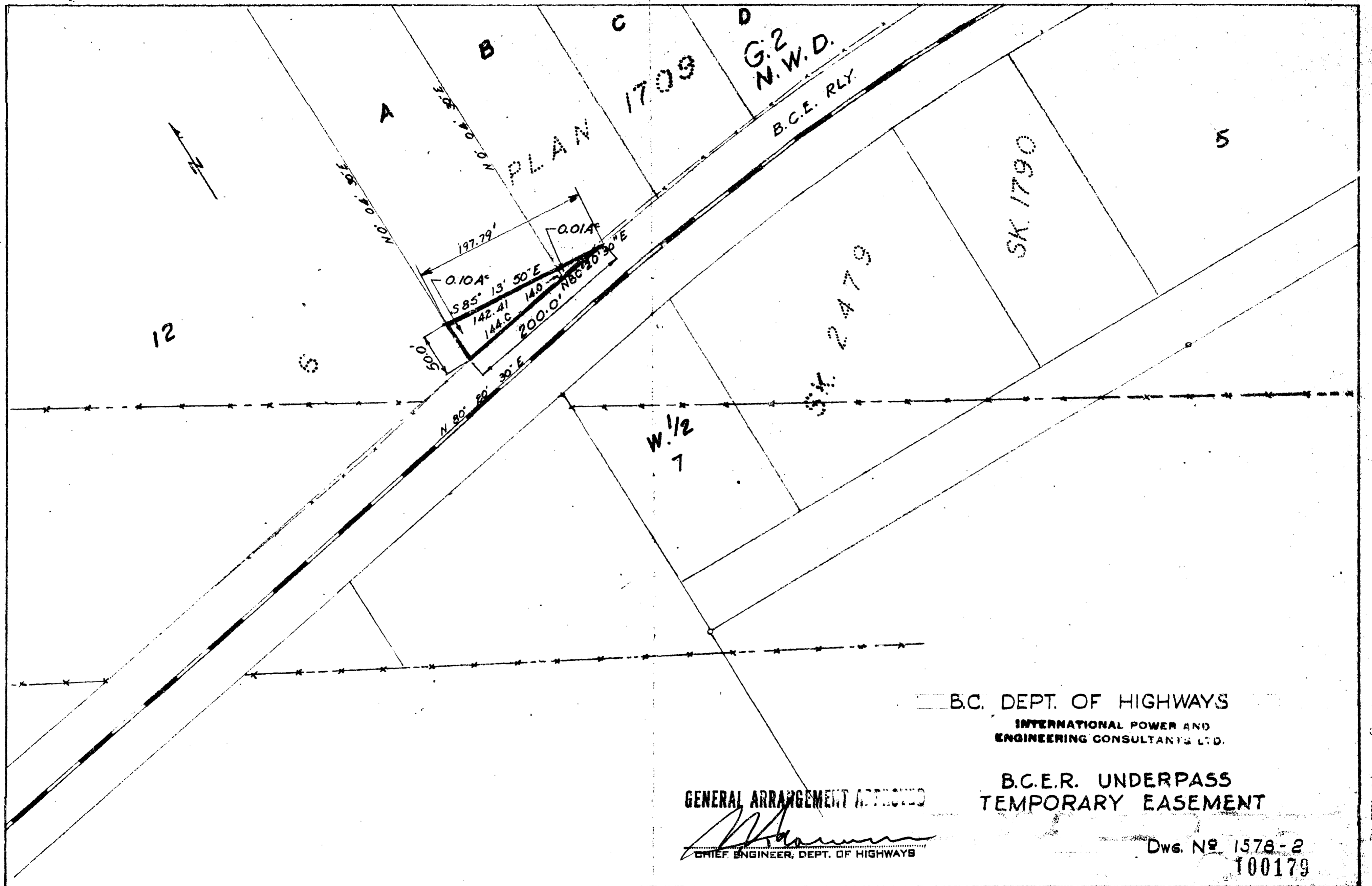
SECTION A-A  
Scale 1" = 20'



SECTION B-B  
Scale 1" = 20'



TRANS



— B.C. DEPT. OF HIGHWAYS  
 INTERNATIONAL POWER AND  
 ENGINEERING CONSULTANTS LTD.

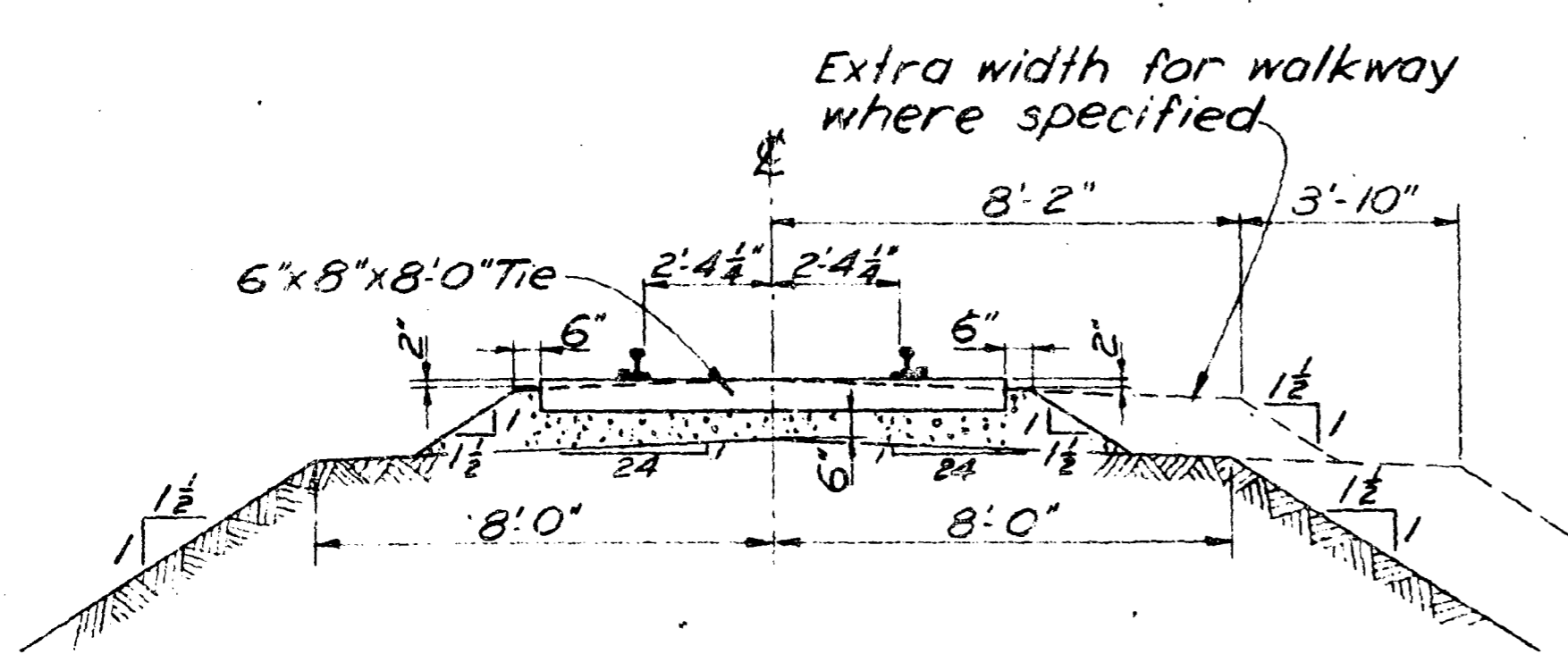
B.C.E.R. UNDERPASS  
 TEMPORARY EASEMENT

GENERAL ARRANGEMENT APPROVED  
*[Signature]*  
 CHIEF ENGINEER, DEPT. OF HIGHWAYS

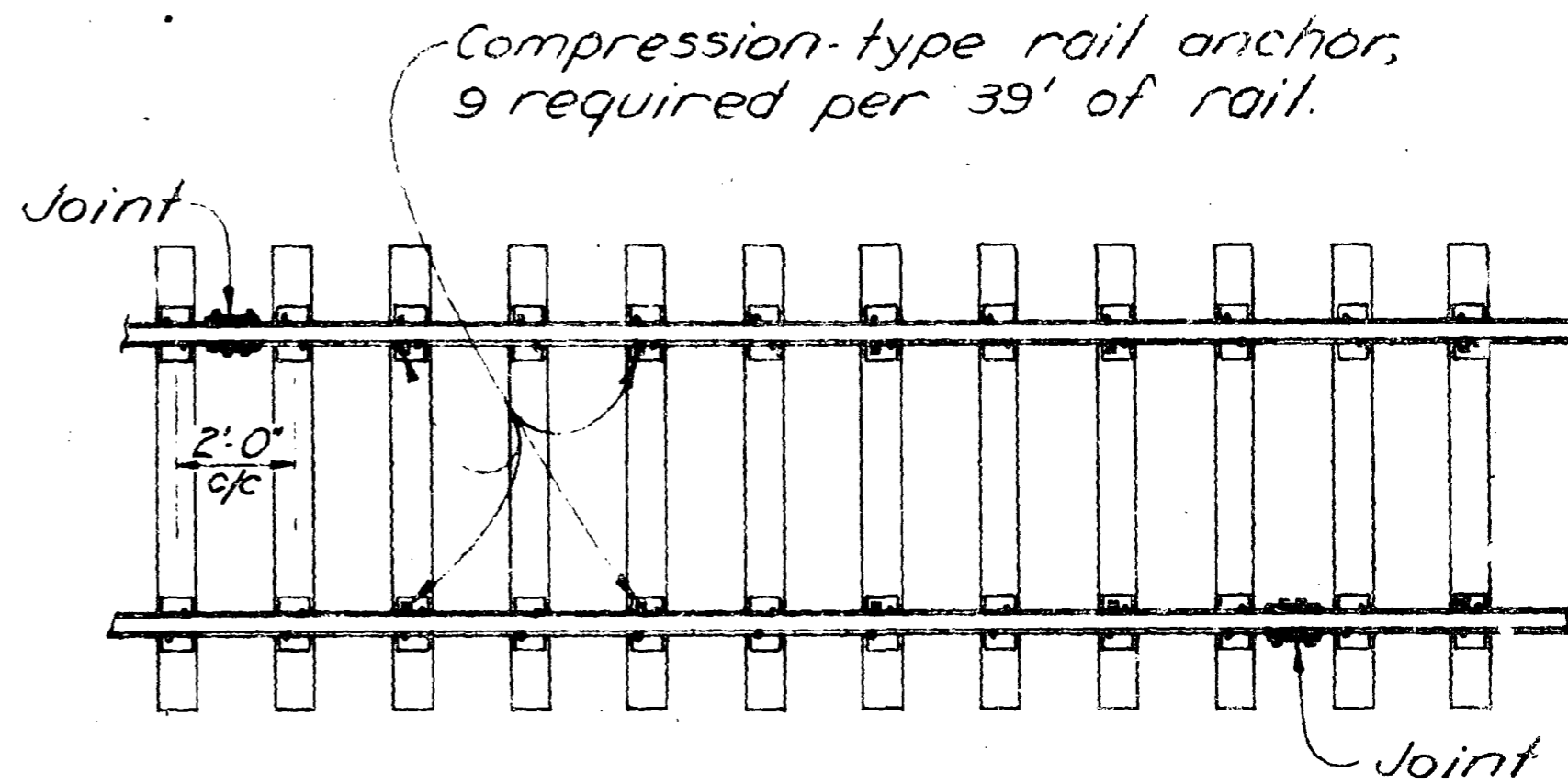
Dwg. No. 1578-2  
 100179

No. 12 1709-1

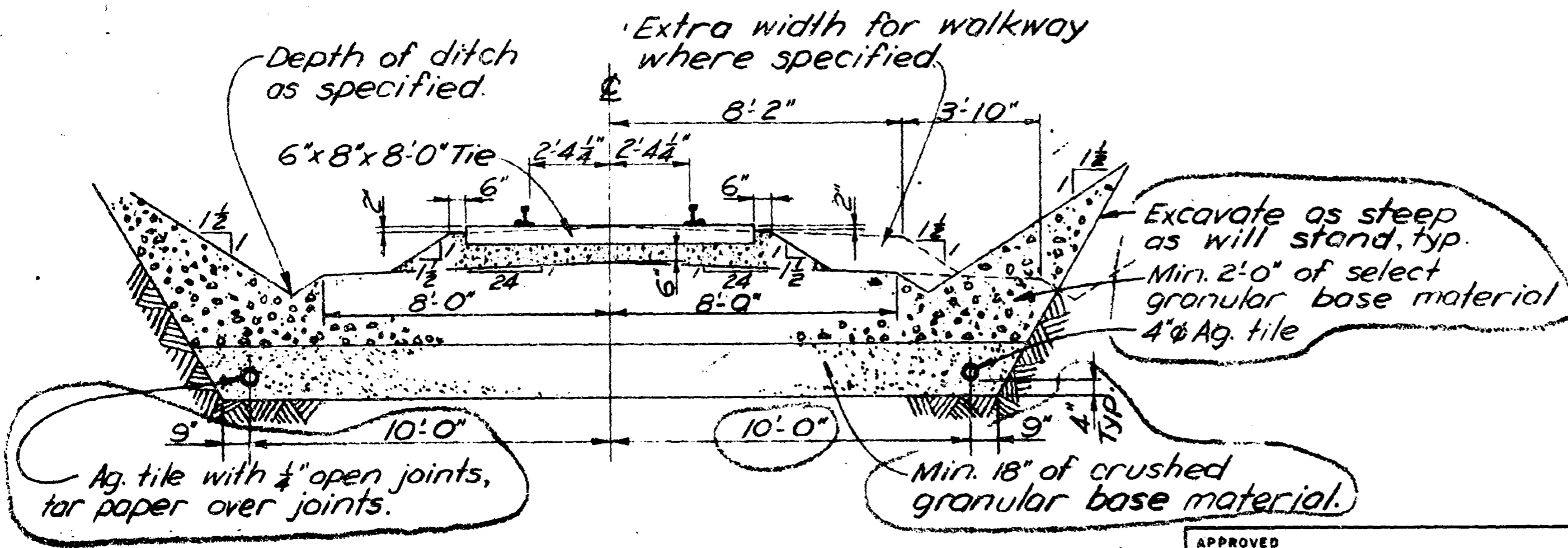




STANDARD BALLAST  
(ON EMBANKMENT)



STANDARD ANCHORING PATTERN  
(COMPRESSION-TYPE RAIL ANCHORS)



STANDARD BALLAST (IN CUT)

REFERENCE

U-87340-Temporary Track  
Diversion & Miscellaneous  
Track Works.

100180

REV. NO.	DATE	MADE	CHKD	INSP	SUBD	REC'D	APPROV
4							
3							
2							
1	12 Sept 61	DJS	APW				

**B. C. ELECTRIC CO. LTD.**

B.C.E. UNDERPASS AT  
B.C.E. MILE 21.27, DISTRICT 3  
BALLAST SECTIONS AND  
ANCHORING PATTERN

INTERNATIONAL POWER & ENGINEERING  
CONSULTANTS LTD. VANCOUVER, B.C.

SCALE 1" = 1'-0"  
DATE 30 MAY 1961  
JOB NO. 3059-002  
K 24,461 RI

APPROVED

*P. J. Martin*  
B.C.E.

OFFICE COPY