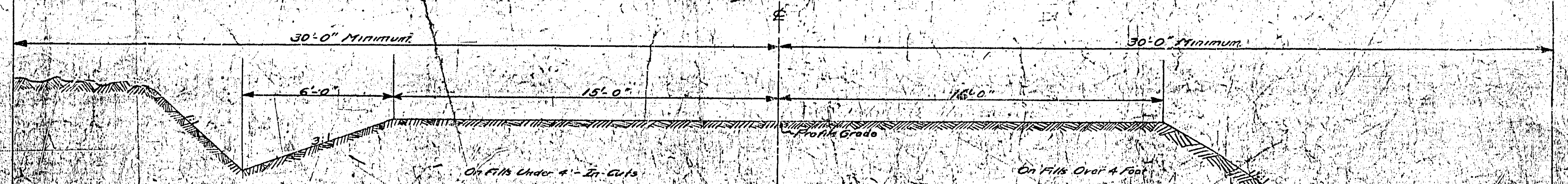
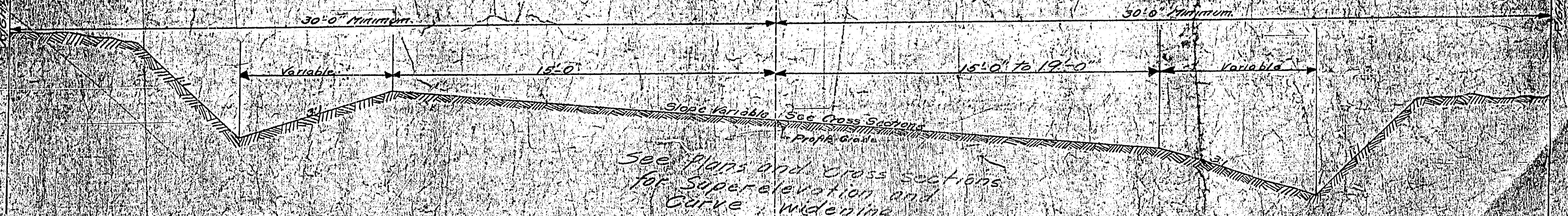


TYPICAL CROSS SECTION
OF
30 FT GRADED EARTH ROADWAY
Grade: 1"=2'



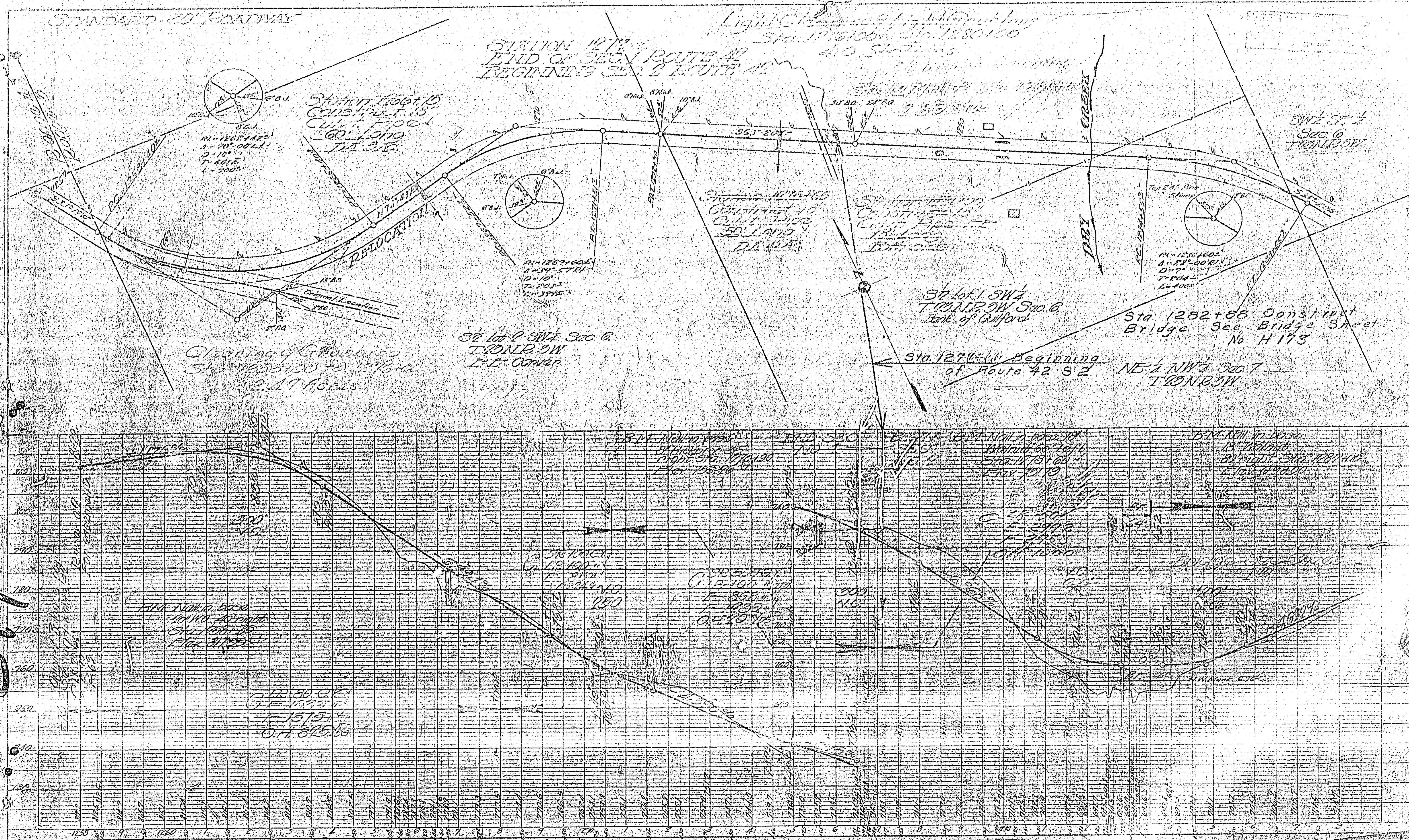
TYPICAL CROSS SECTION ON TANGENTS



TYPICAL CROSS SECTION ON CURVES

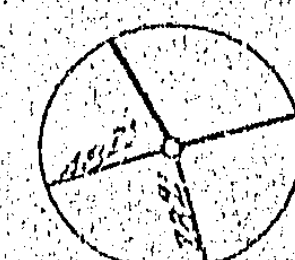
247

249



127

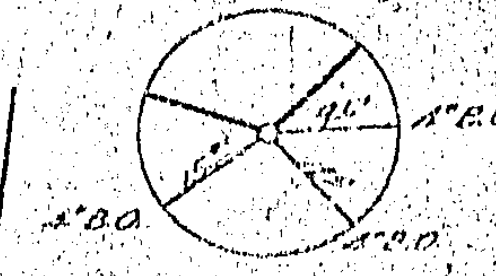
Clearing & Grubbing
Sta. 1288+00 to 1290+00
0.87 Acres



Station 1290+00
Construct Curb
48' Long
D.A. 8.4%

Clearing & Grubbing
Sta. 1295+00 to 1309+50
1.99 Acres

Sixth SE 1/4 Sec 6
T. 20N. R. 2W.
Bank of Gulfport



SE 1/4 Sec 6
T. 20N. R. 2W.
IN Wilson

Light Clearing & Grubbing
Sta. 1310+00 to 1312+00
2.0 Stations

Clearing & Grubbing
Sta. 1312+00 to 1314+00
0.11 Acres

4

Nine NE 1/4 Sec 7
T. 20N. R. 2W.
IN Wilson

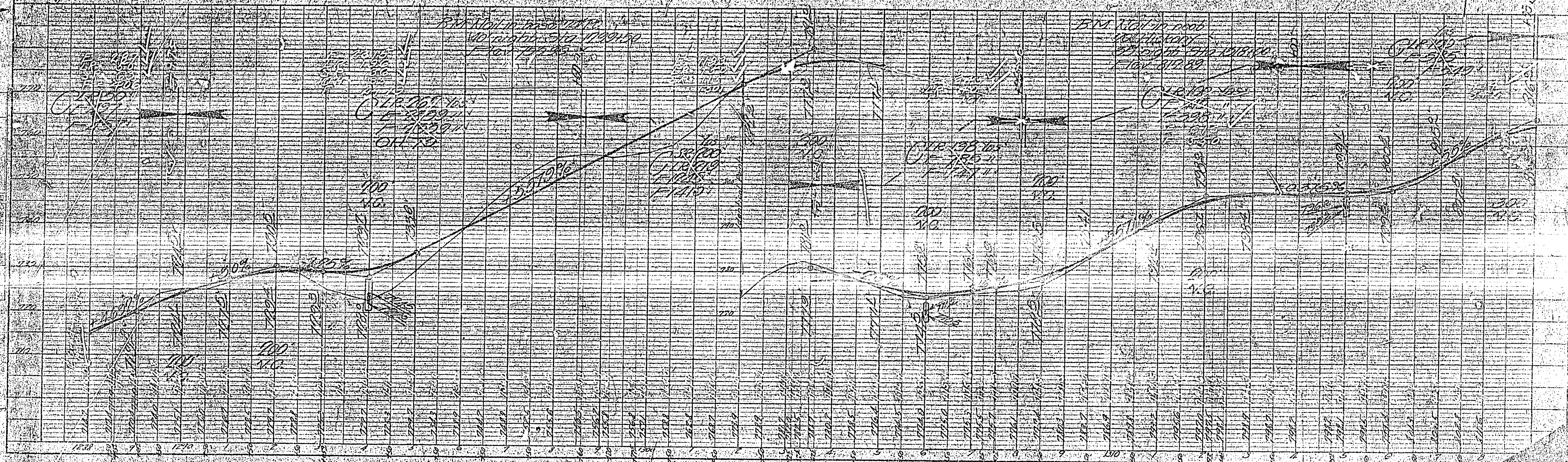
Light Clearing & Grubbing
Sta. 1314+00 to 1317+00
4.0 Stations

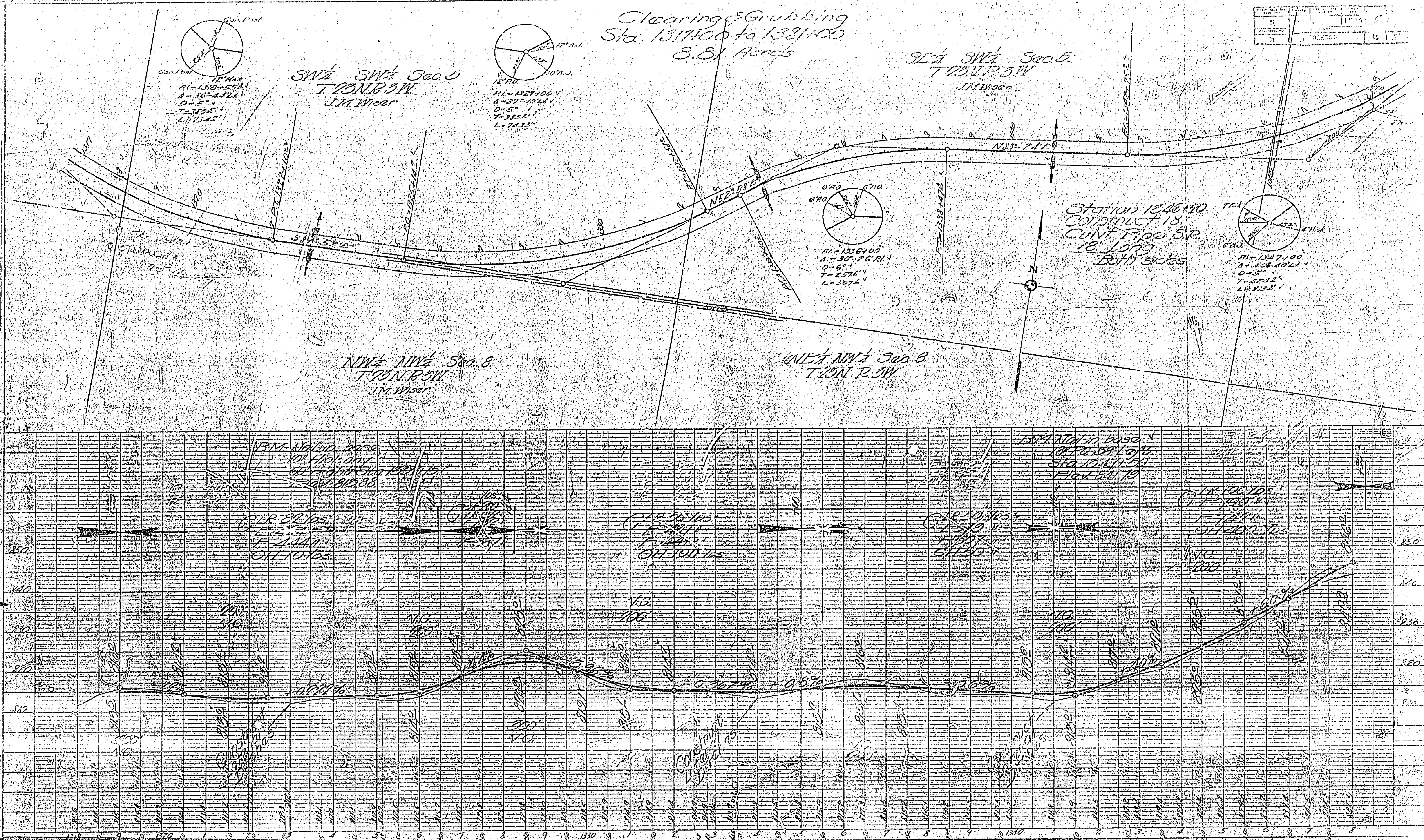


Station 1317+00
Construct Curb
36' Long
D.A. 12.4%

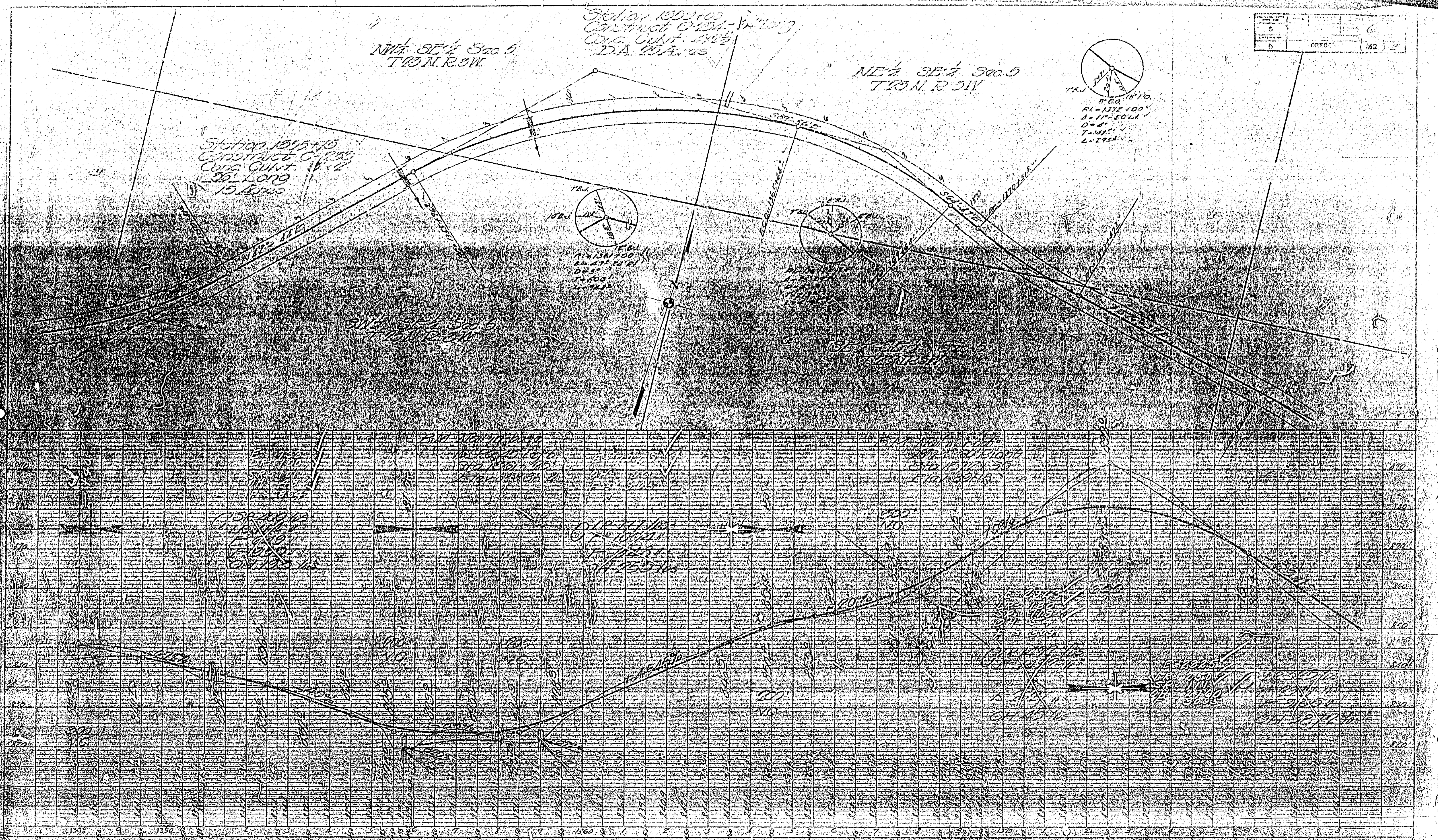
Station 1317+00
Construct Curb
36' Long
D.A. 12.4%

250

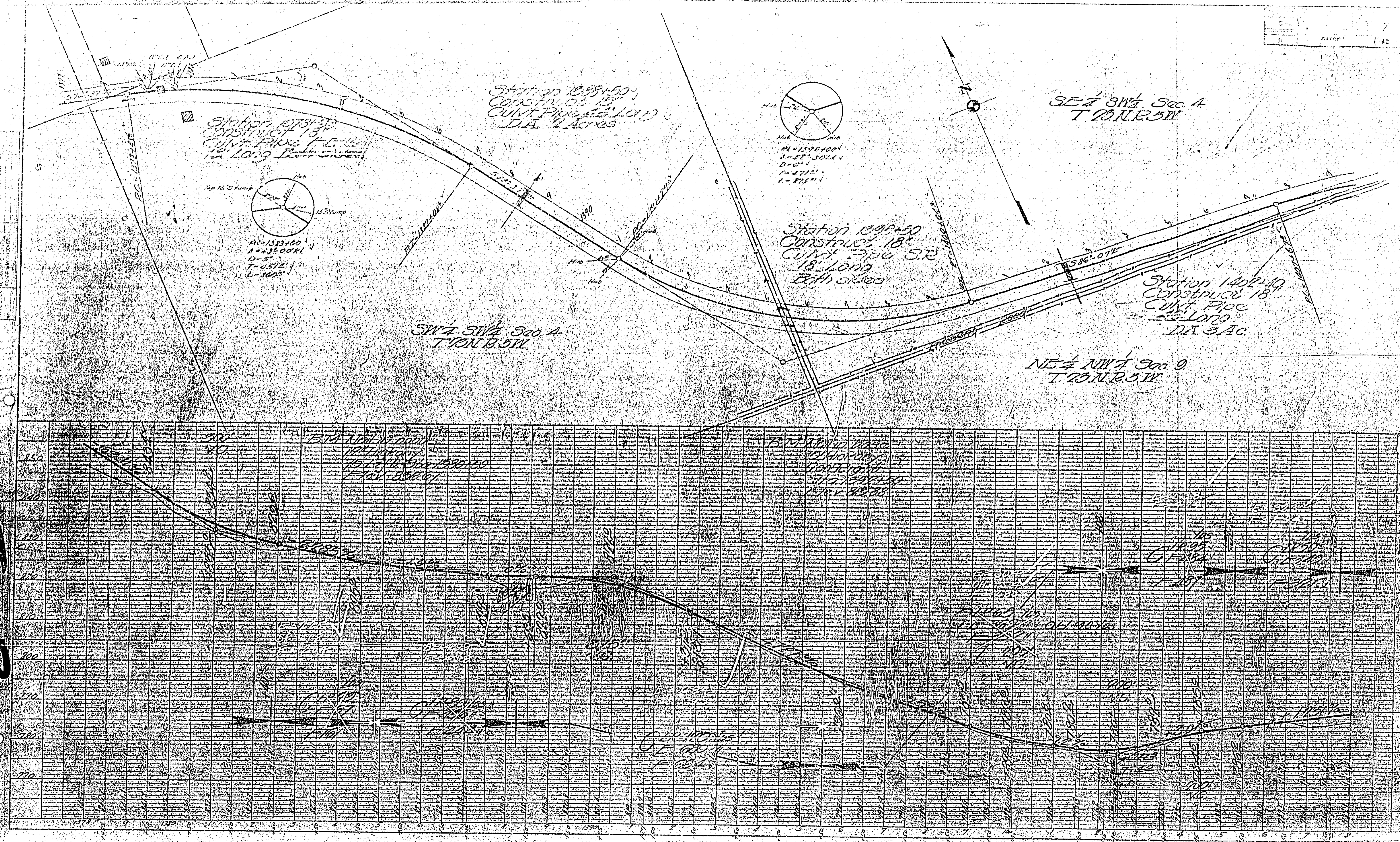




251



253



SW 1/4 Sec 9
T10N R3W
James Adams

Clearing & Grubbing
Sta. 1423+00 to 1424+00
0.14 Acres

NE 1/4 NE 1/4 Sec 9
T10N R3W

Station 1417+00
Construct 18"
Culvert Pipe
25' Long
DA 5.40

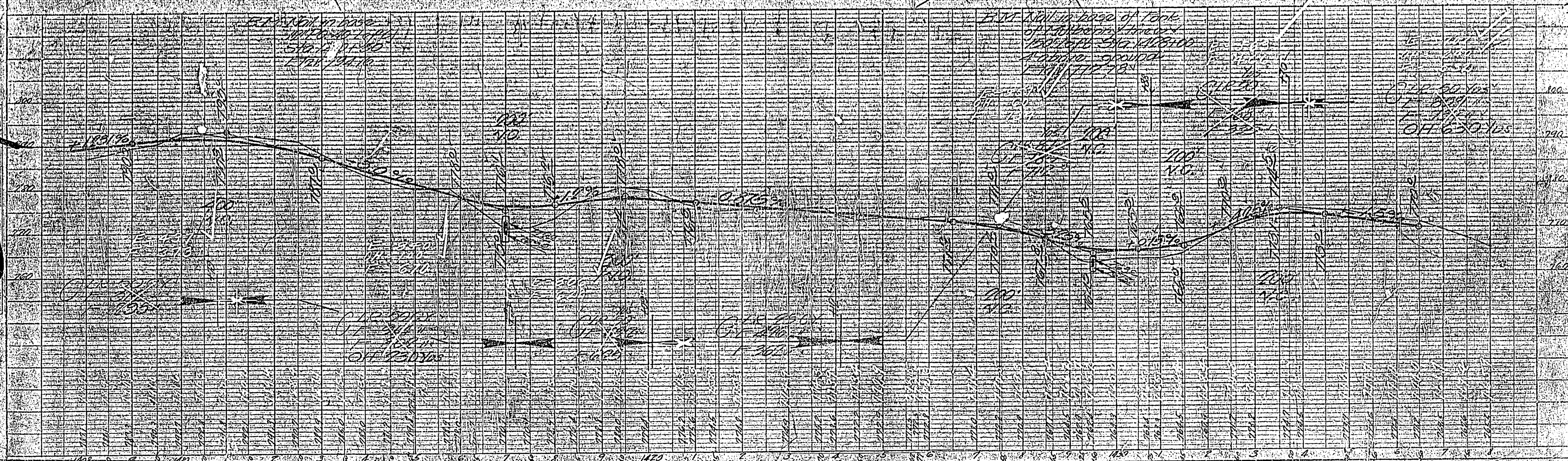
Station 1419+00
Construct 18"
Culvert Pipe
25' Long
DA 5.40

NE 1/4 NE 1/4 Sec 9
T10N R3W

Station 1415+00
Construct 18"
Culvert Pipe 3R
18' Long
Both Sides

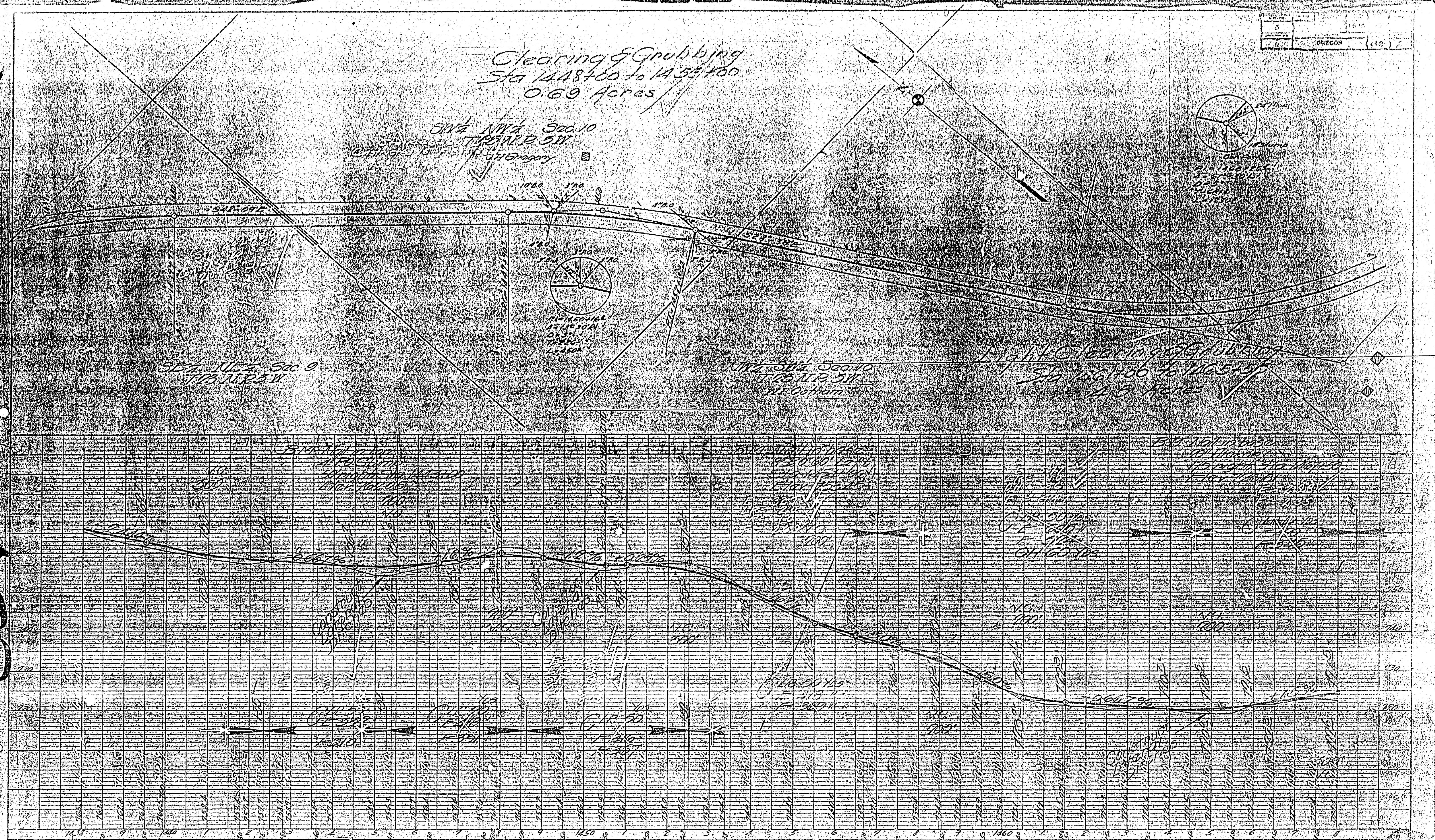
Light Grubbing
Sta. 1426+00 to 1432+00
6.0 Stations

SE 1/4 NE 1/4 Sec 9
T10N R3W



254

127

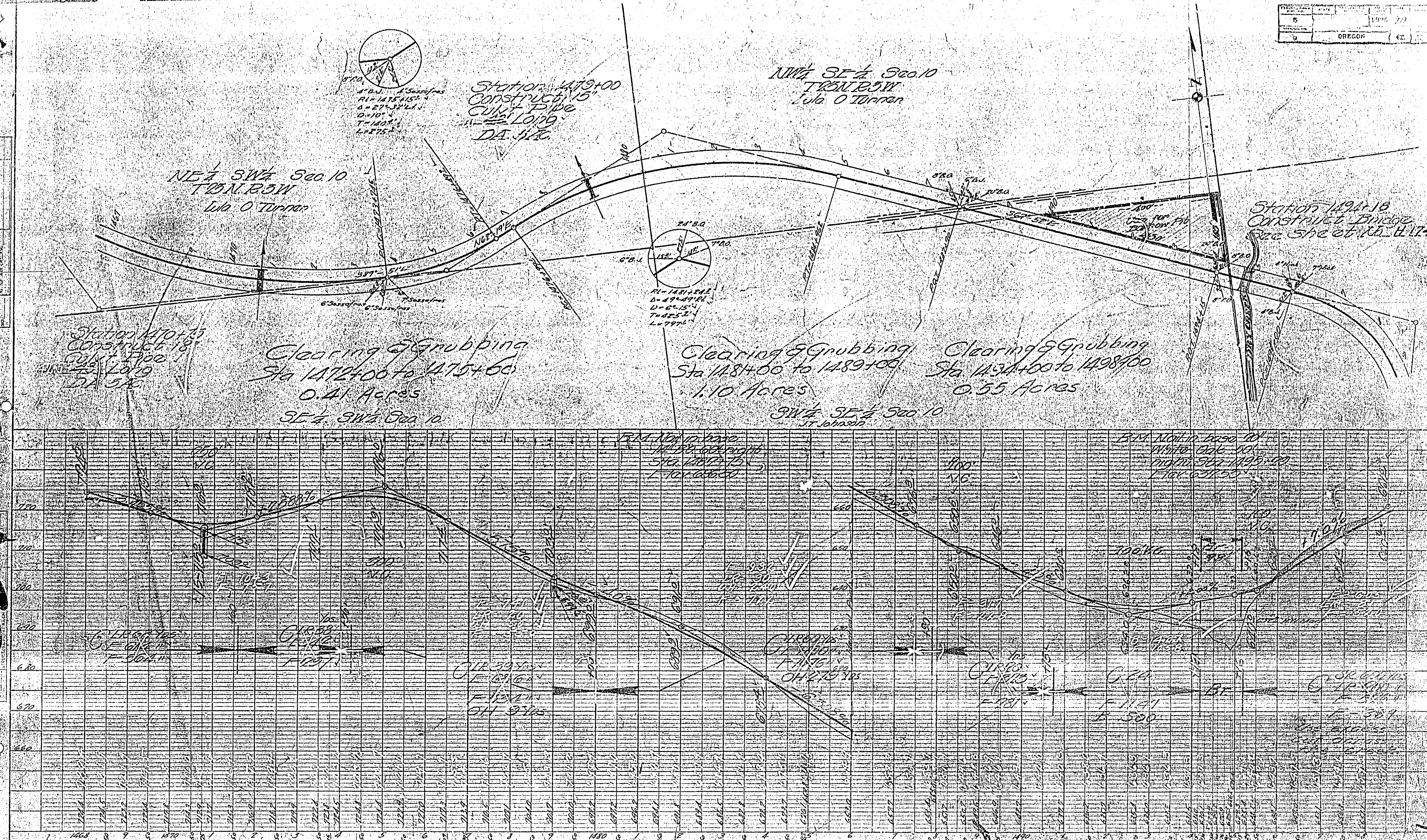


127

REMARKS	
DATE	
BY	
CHECKED BY	
APPROVED BY	

PROFILE	
DATE	
BY	
CHECKED BY	
APPROVED BY	

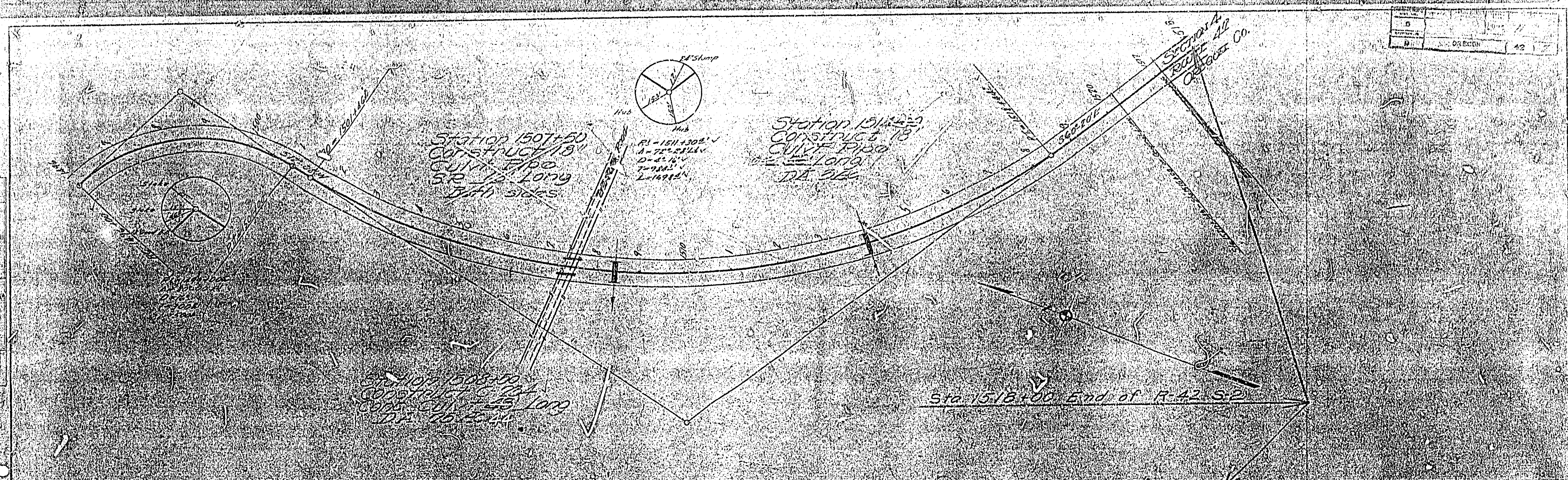
PROJECT	127
DATE	1976
BY	
CHECKED BY	
APPROVED BY	



127

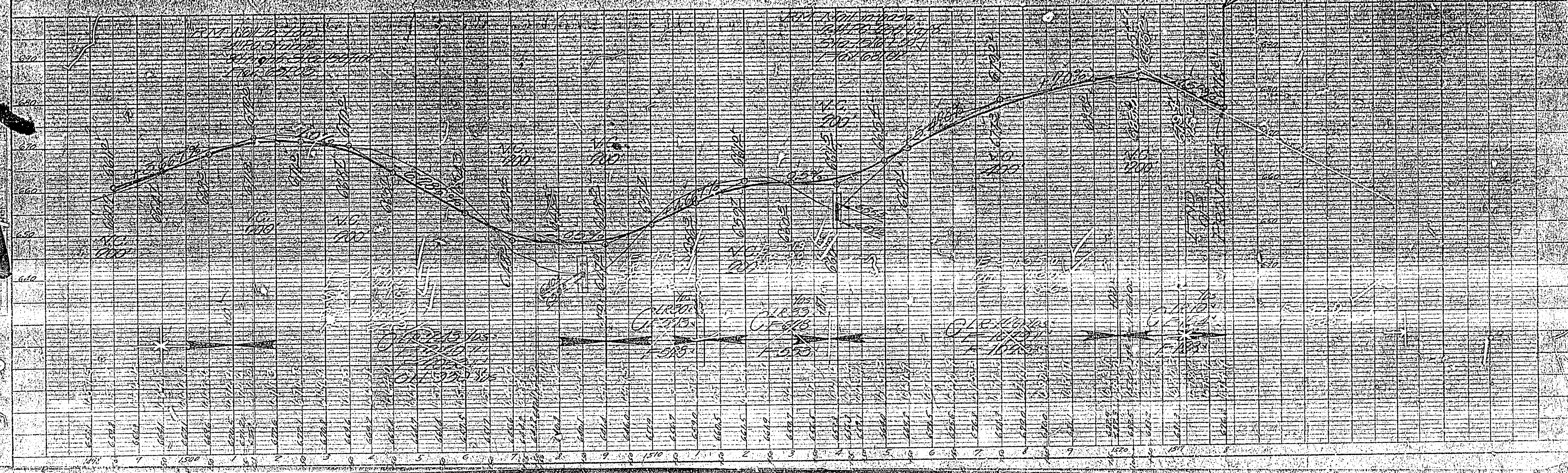
REVISION
BY
DATE
42

PLAN
SCALE
1" = 100'



257

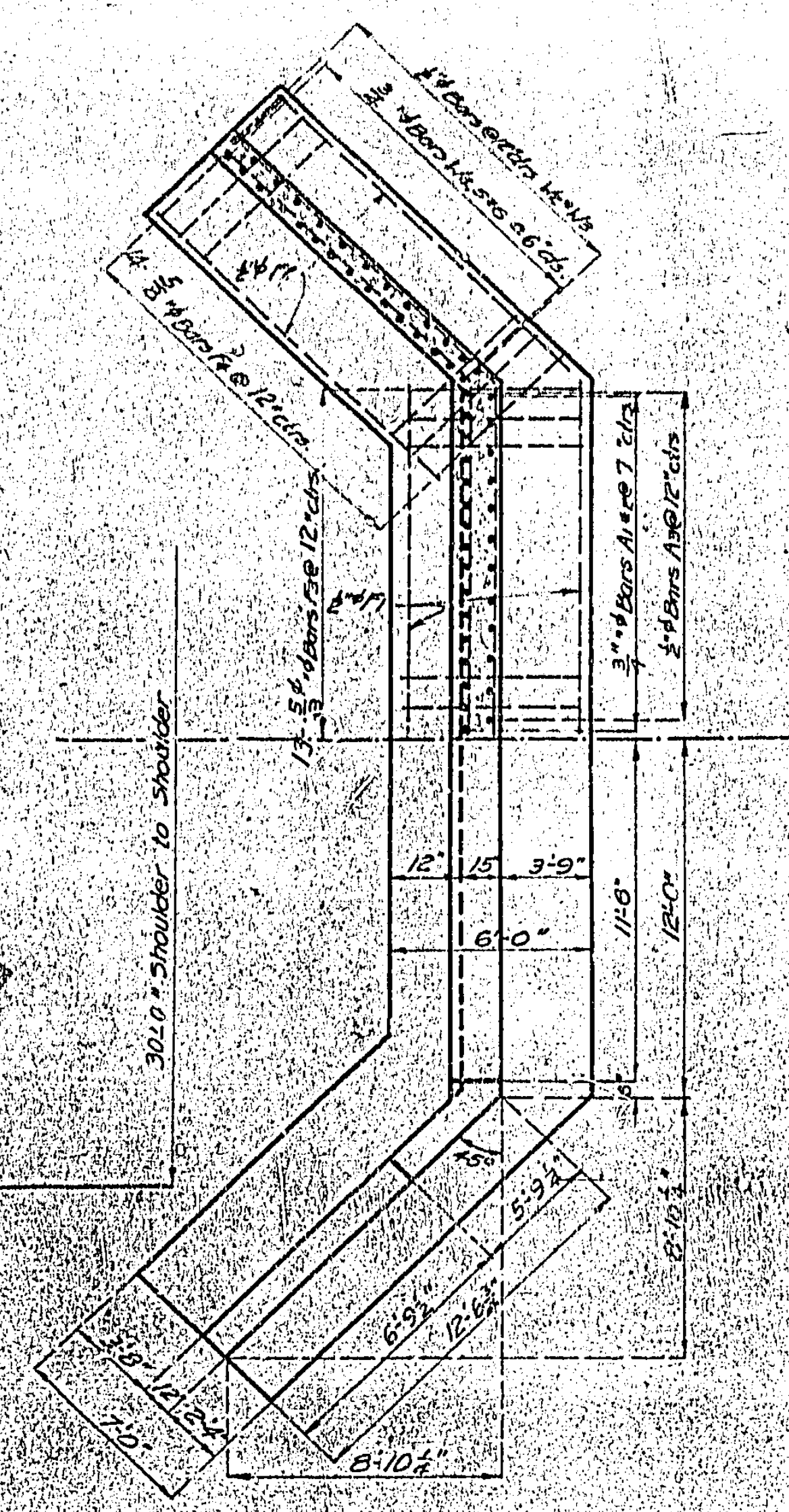
PROFILE
SCALE
1" = 10'



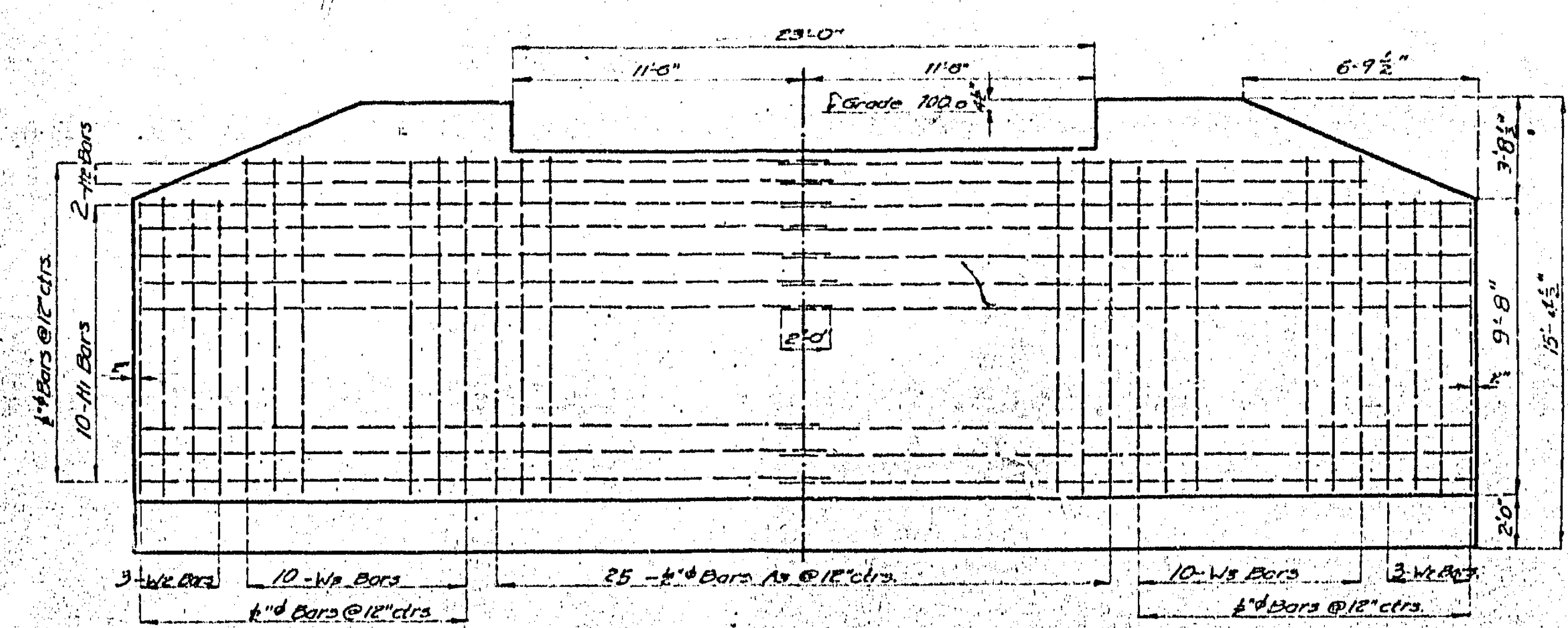
MISSOURI STATE HIGHWAY DEPARTMENT

FED ROAD DIST NO	STATE	FED AID PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO.	R42-52	19		

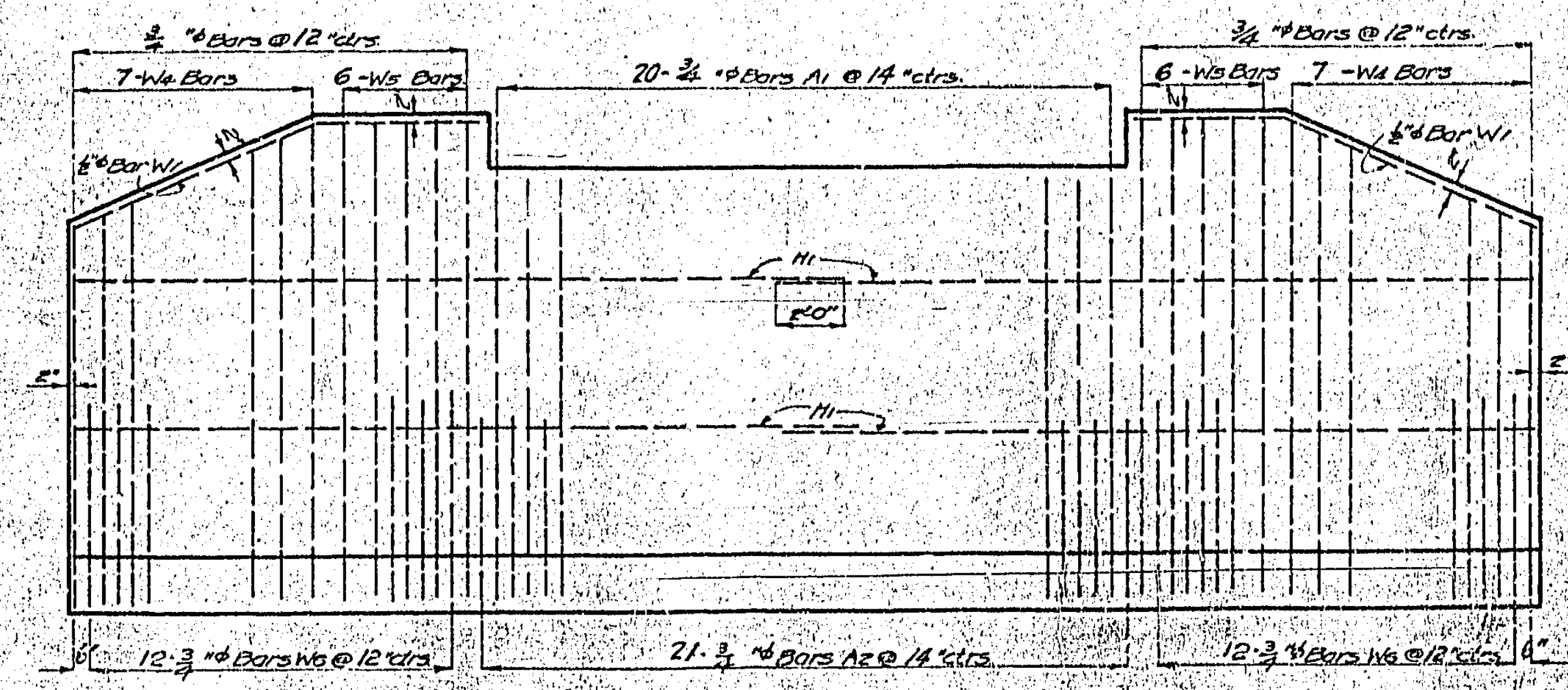
12



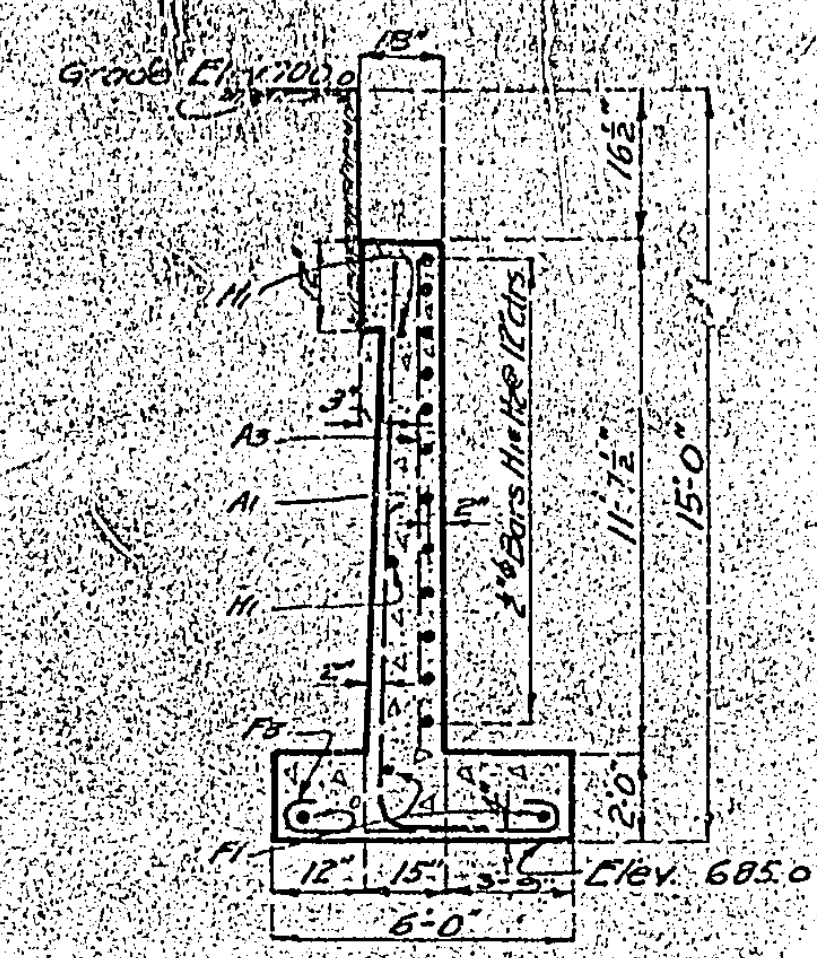
PLAN



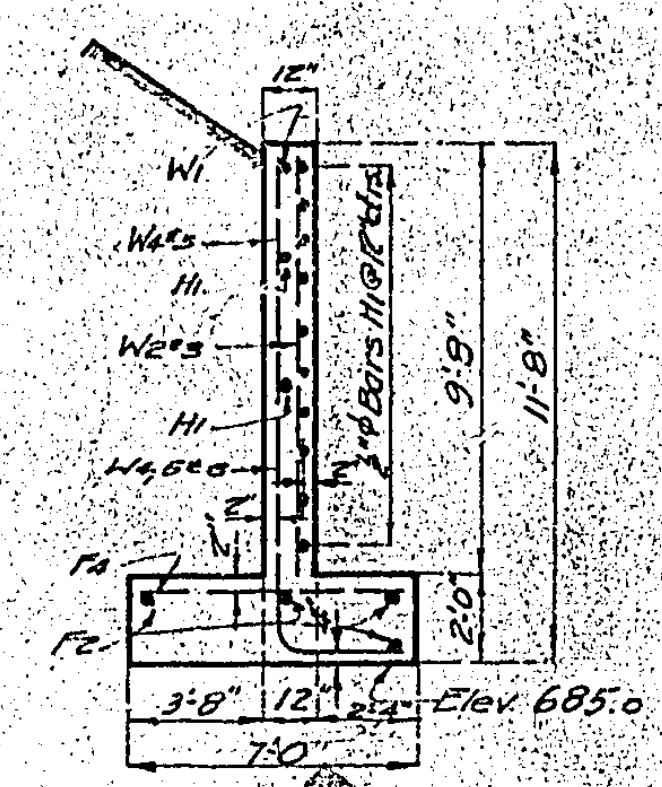
DEVELOPED ELEVATION SHOWING REINFORCEMENT IN STREAM FACE



DEVELOPED ELEVATION SHOWING REINFORCEMENT IN FILL FACE



SECTION THRU ABUTMENT



END ELEVATION OF WING

BRIDGE OVER COX BRANCH
STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 21 MILES N.E. OF THAYER
PROJECT NO. R 42 S2 STA. 1282 + 88

OREGON COUNTY

SUBMITTED BY *H. G. Thompson* DATE *7-9-75*
 CHIEF ENGINEER
 APPROVED BY *B. J. Simpson* DATE *July 9, 1975*
 CHIEF ENGINEER

STD C5320
H 173

SLABS - CANTILEVER ABUTMENTS - C-503

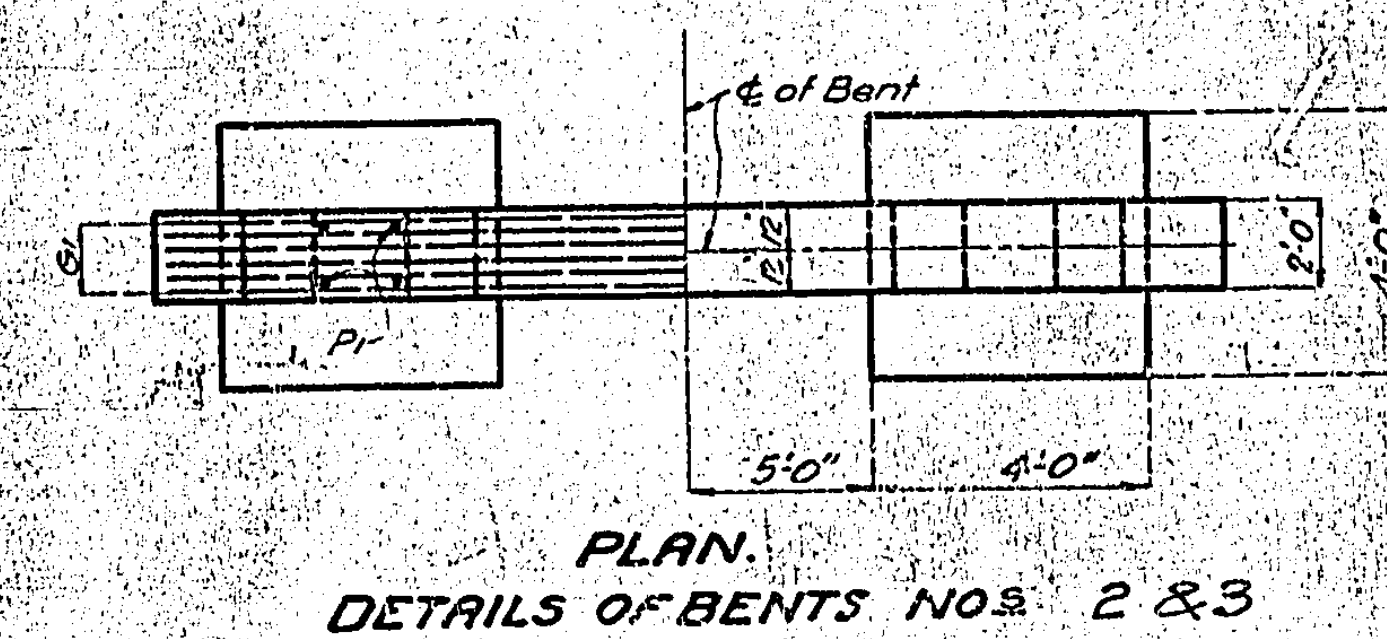
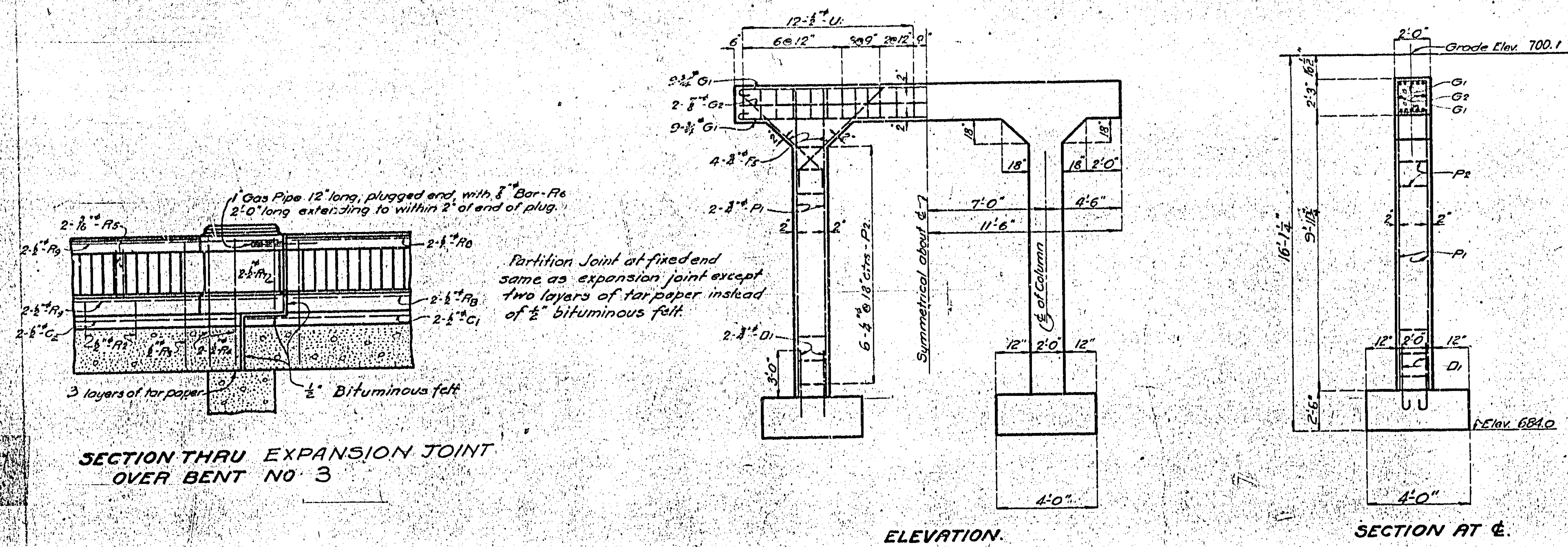
Assembled	June 30, 1925	By E.E.
Checked	July 1925	By J.T.
Drawn	June 26, 1925	By E.E.D.
Checked	June 27, 1925	By B.G.O.

127

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FINANCIAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO	R-4252	19		

13



SECTION THRU EXPANSION JOINT
OVER BENT NO. 3

ELEVATION

SECTION AT E

PLAN
DETAILS OF BENTS NOS. 2 & 3

652

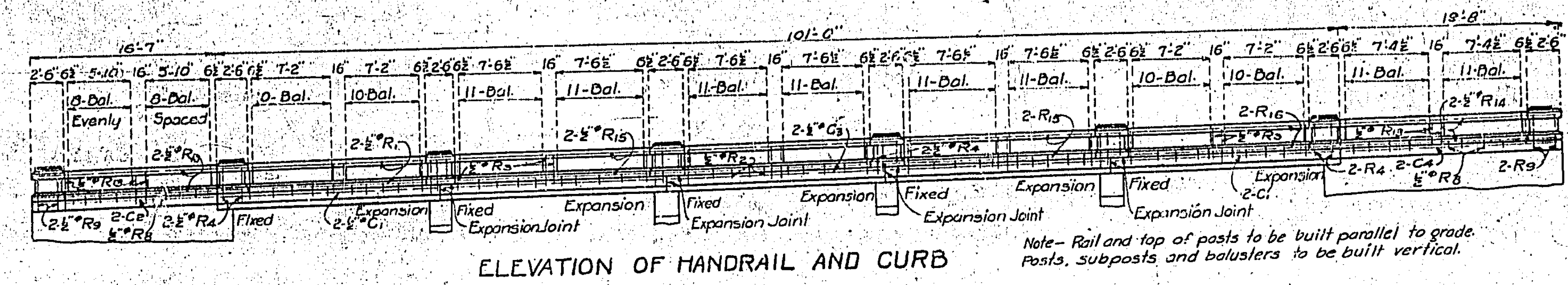
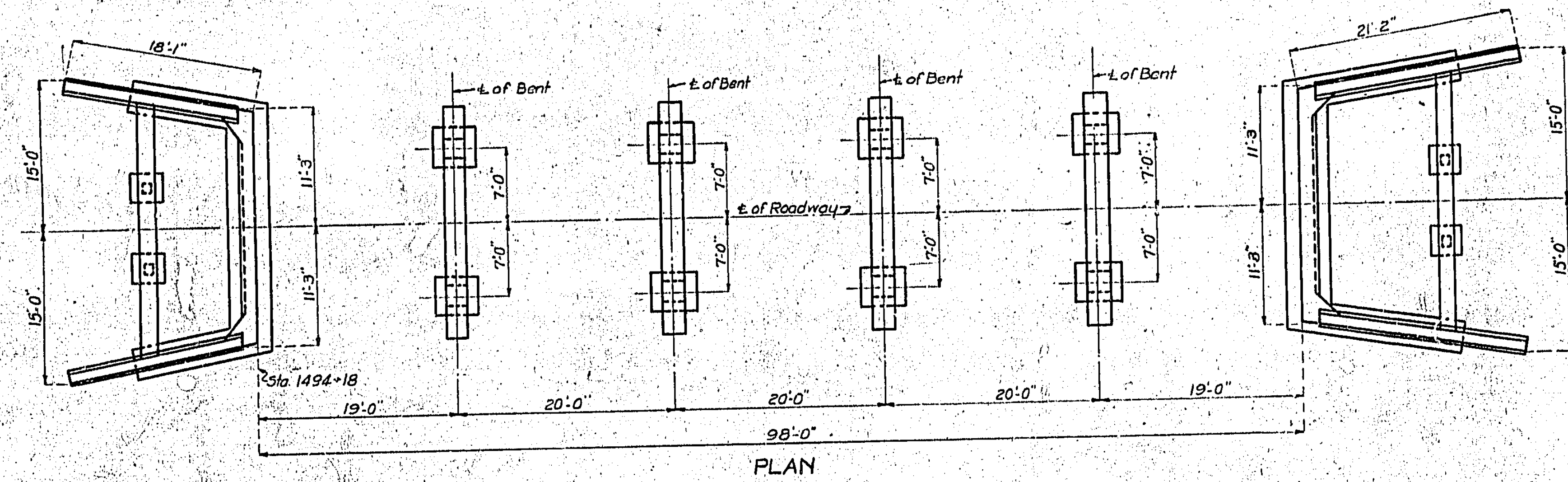
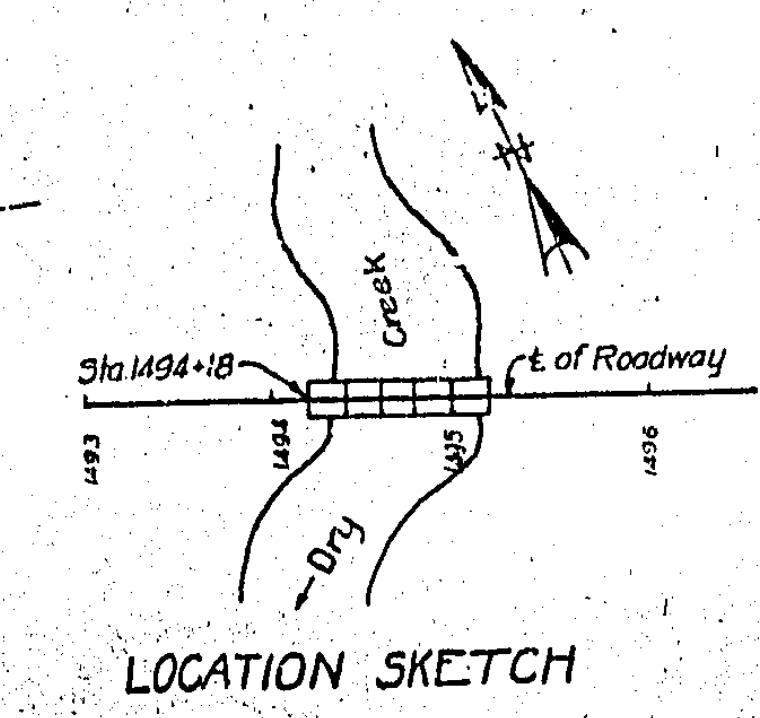
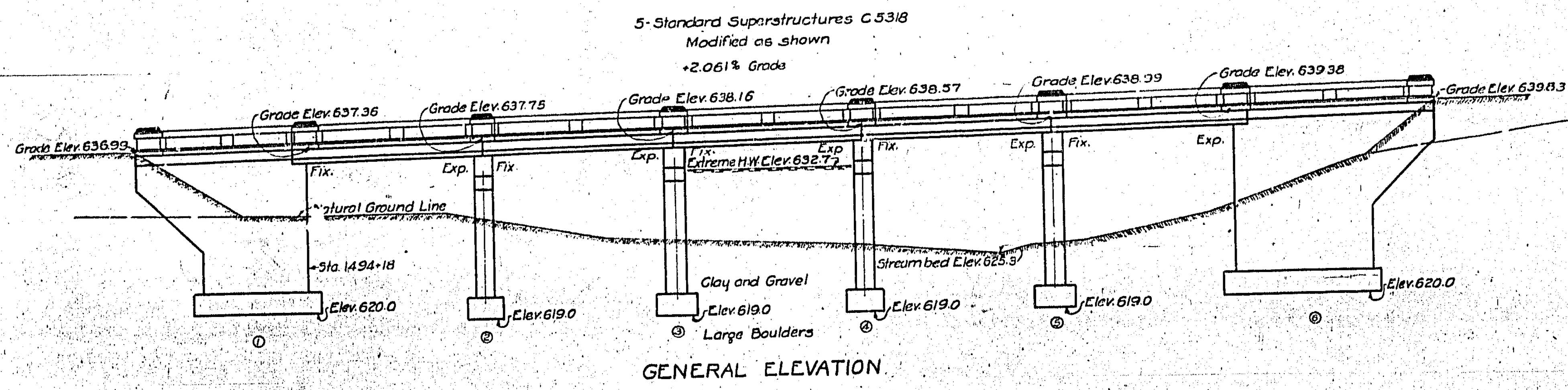
Assembled July 1925 By E.E.
Checked July 1925 By J.I.
Drawn May 1925 By J.I.
Checked May 1925 By B.J.O.

BRIDGE OVER COX BRANCH
STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 21 MILES N.E. OF THAYER
PROJECT NO. R 42-52 STA. 1282+88
OREGON COUNTY

SUBMITTED BY: [Signature] DATE: 7-7-25
APPROVED BY: [Signature] DATE: 7-12-25
BRIDGE ENGINEER
CHIEF ENGINEER

Std. C5320
H173

MISSOURI STATE HIGHWAY DEPARTMENT



BILL OF REINFORCING STEEL

NO.	SIZE	LENGTH	MARK	BENDING SKETCHES
46	2"	9'-9"	D ₁	
72	2"	9'-9"	D ₂	
31	2"	6'-9"	D ₃	
64	2"	8'-3"	F ₁	
64	2"	24'-9"	G ₁	
4	2"	30'-3"	H ₁	
22	2"	14'-3"	H ₂	
18	2"	7'-6"	H ₃	
6	2"	10'-9"	H ₄	
12	2"	8'-3"	H ₅	
28	2"	17'-9"	H ₆	
9	2"	30'-9"	K ₁	
18	2"	16'-0"	K ₂	
18	2"	9'-0"	K ₃	
18	2"	10'-9"	K ₄	
10	2"	19'-6"	K ₅	
8	2"	14'-9"	L ₁	
64	2"	8'-0"	L ₂	
4	2"	13'-9"	L ₃	
8	2"	15'-0"	L ₄	
8	2"	6'-0"	L ₅	
8	2"	3'-6"	L ₆	
8	2"	3'-0"	L ₇	
8	2"	3'-0"	L ₈	
8	2"	3'-0"	L ₉	
8	2"	3'-0"	L ₁₀	
8	2"	3'-0"	L ₁₁	
8	2"	3'-0"	L ₁₂	
8	2"	3'-0"	L ₁₃	
8	2"	3'-0"	L ₁₄	
8	2"	3'-0"	L ₁₅	
8	2"	3'-0"	L ₁₆	
8	2"	3'-0"	L ₁₇	
8	2"	3'-0"	L ₁₈	
8	2"	3'-0"	L ₁₉	
8	2"	3'-0"	L ₂₀	
8	2"	3'-0"	L ₂₁	
8	2"	3'-0"	L ₂₂	
8	2"	3'-0"	L ₂₃	
8	2"	3'-0"	L ₂₄	
8	2"	3'-0"	L ₂₅	
8	2"	3'-0"	L ₂₆	
8	2"	3'-0"	L ₂₇	
8	2"	3'-0"	L ₂₈	
8	2"	3'-0"	L ₂₉	
8	2"	3'-0"	L ₃₀	
8	2"	3'-0"	L ₃₁	
8	2"	3'-0"	L ₃₂	
8	2"	3'-0"	L ₃₃	
8	2"	3'-0"	L ₃₄	
8	2"	3'-0"	L ₃₅	
8	2"	3'-0"	L ₃₆	
8	2"	3'-0"	L ₃₇	
8	2"	3'-0"	L ₃₈	
8	2"	3'-0"	L ₃₉	
8	2"	3'-0"	L ₄₀	
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8	2"	3'-0"	L ₉₃	
8	2"	3'-0"	L ₉₄	
8	2"	3'-0"	L ₉₅	
8	2"	3'-0"	L ₉₆	
8	2"	3'-0"	L ₉₇	
8	2"	3'-0"	L ₉₈	
8	2"	3'-0"	L ₉₉	
8	2"	3'-0"	L ₁₀₀	

ESTIMATED QUANTITIES

ITEM	SUPERSTR.	SUBSTR.	TOTAL
Excavation	14.4 Yds.	3.2	17.6
Concrete 1-2-3	10.9	4.0	14.9
Concrete 1-2-3 1/2	110.5		110.5
Concrete 1-2-4		154.6	154.6
Reinforcing Steel	12510	12060	24570

GENERAL NOTES -
Concrete in handrail to be 1-2-3 mix. Concrete in slabs and curbs to be 1-2-3 1/2 mix. All other concrete to be 1-2-4 mix.
Exposed edges to be beveled 1/2" where no other bevel is noted.

B.M. Elev. 632.53 Nail in base of 20" White Oak 50' Rt Sta. 1495+29

BRIDGE OVER DRY CREEK
STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 28 MILES N.E. OF THAYER
PROJECT NO. R42-S2 STA. 1494+18
OREGON COUNTY

SUBMITTED BY *[Signature]* DATE 7-9-25
APPROVED BY *[Signature]* DATE 7-9-25
BRIDGE ENGINEER
CITY ENGINEER

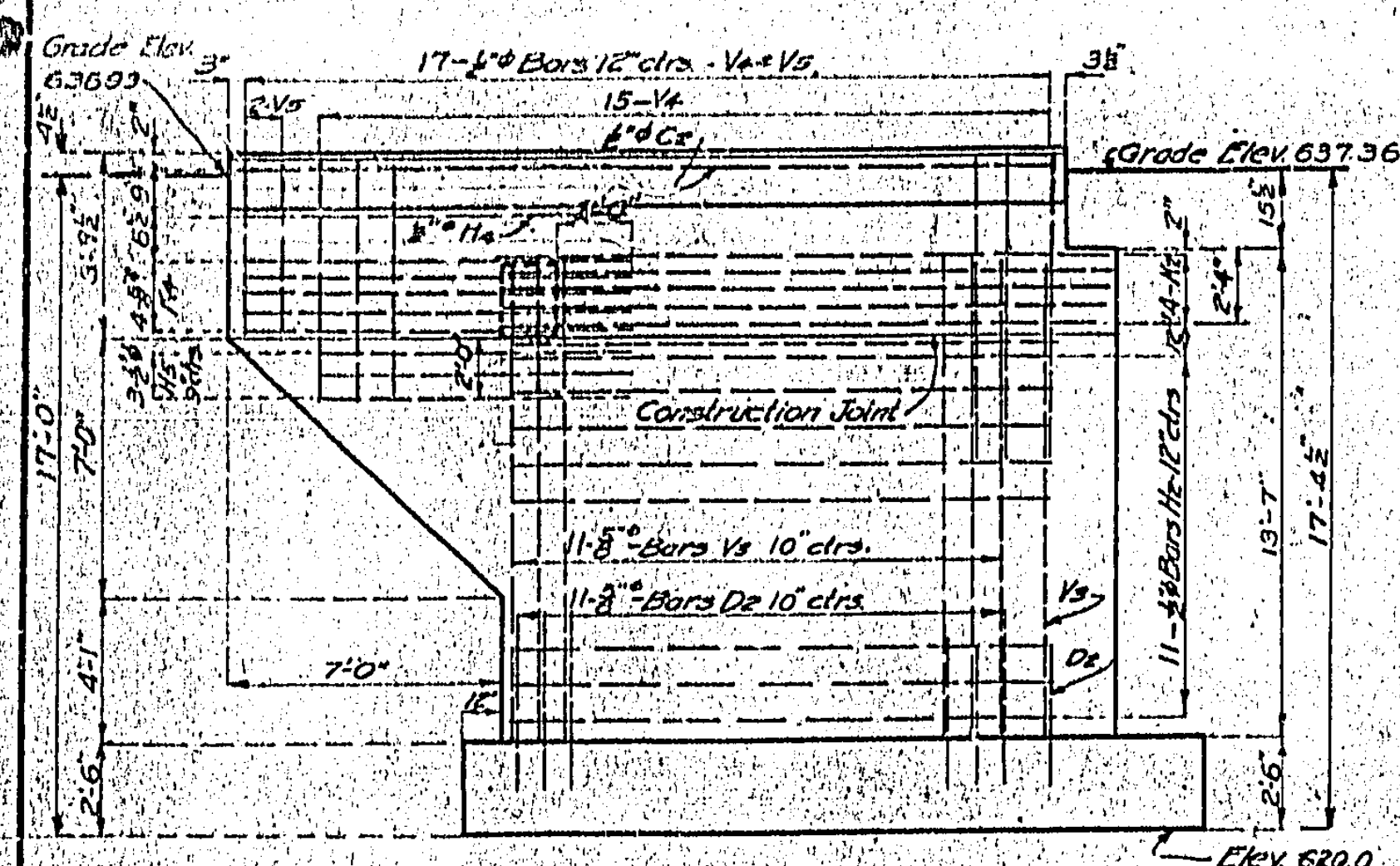
Drawn June 1925 By M.J.D.
Checked July 1925 By R.J.R.

127

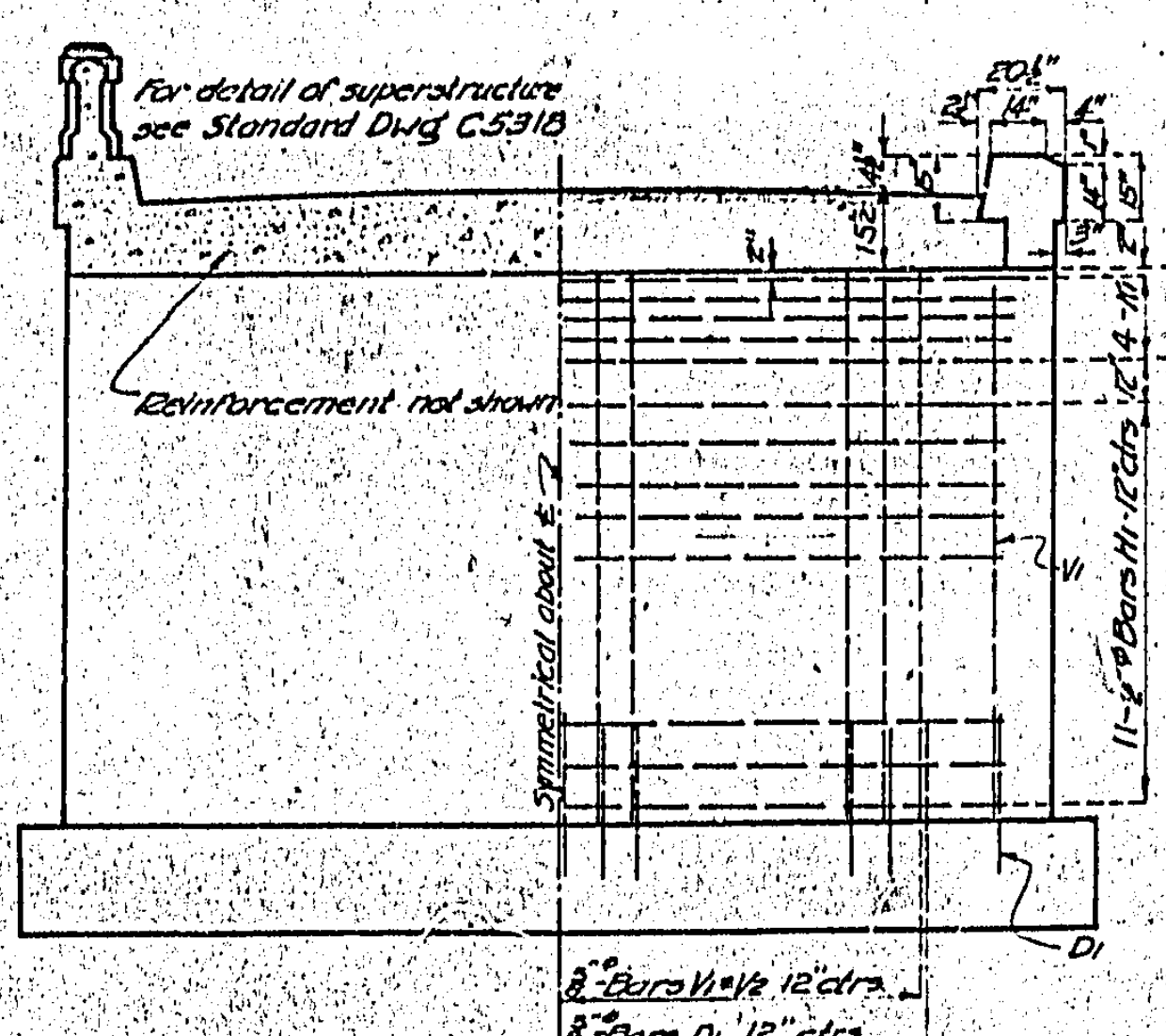
PROJECT NO.	SHEET NO.	TOTAL SHEETS
MO. 1142-52	19	

15

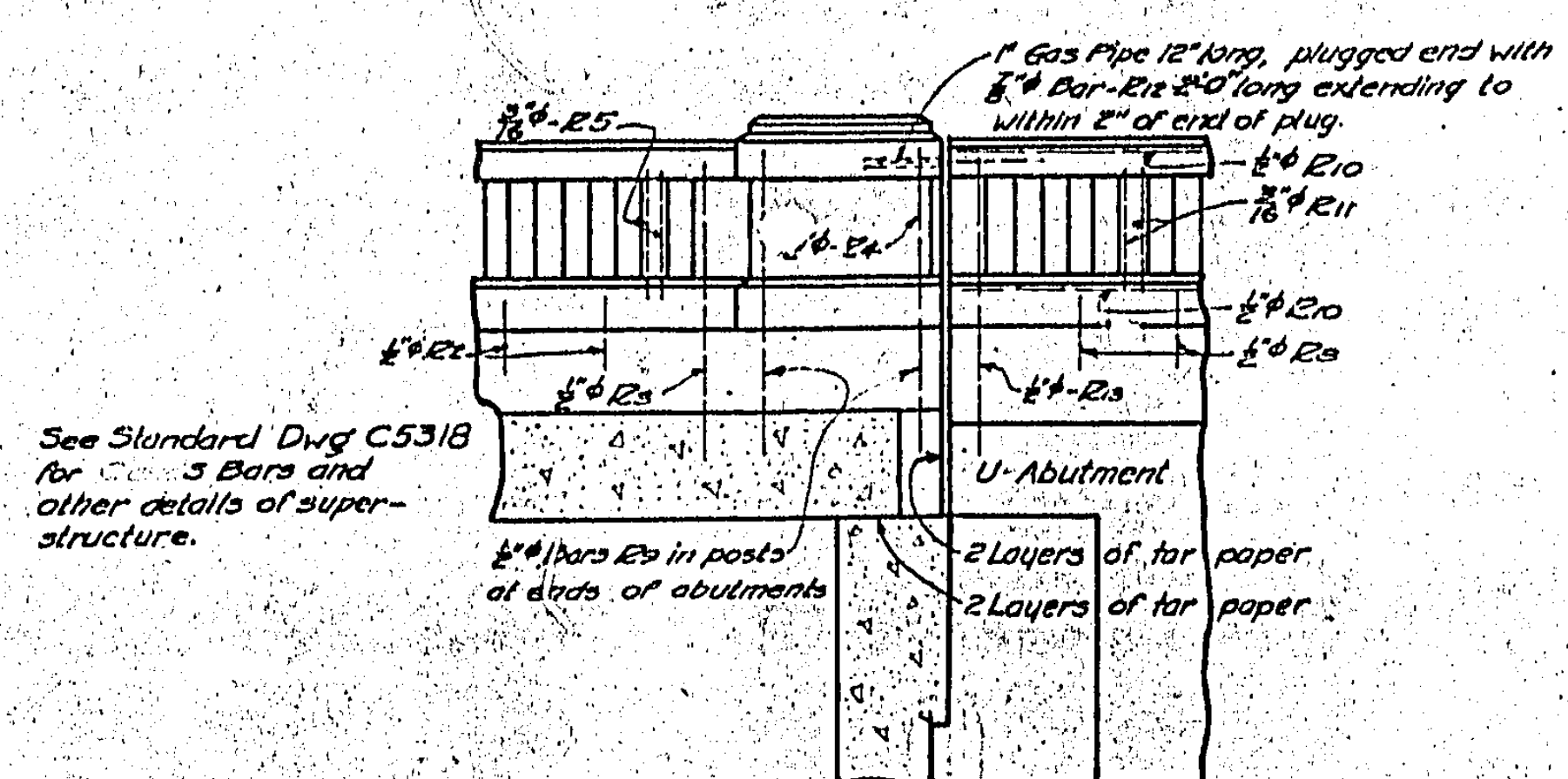
MISSOURI STATE HIGHWAY DEPARTMENT



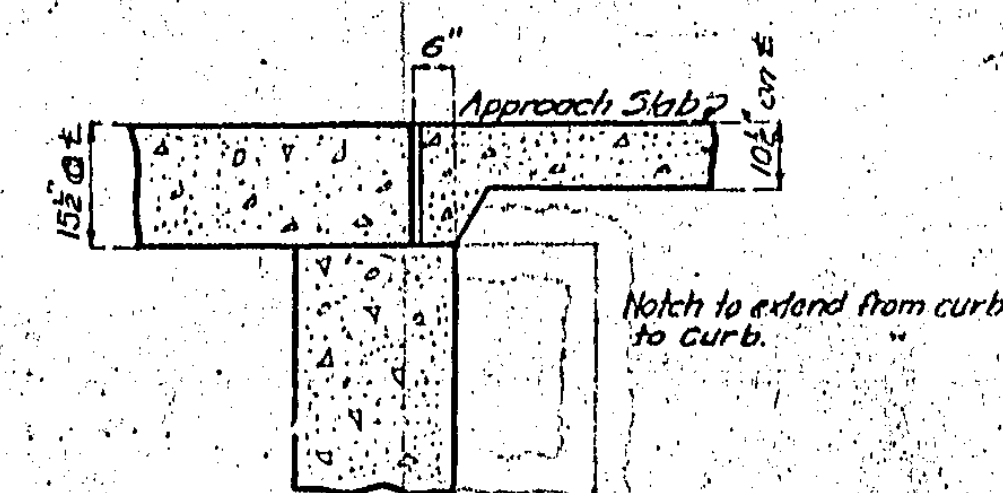
ELEVATION OF WING



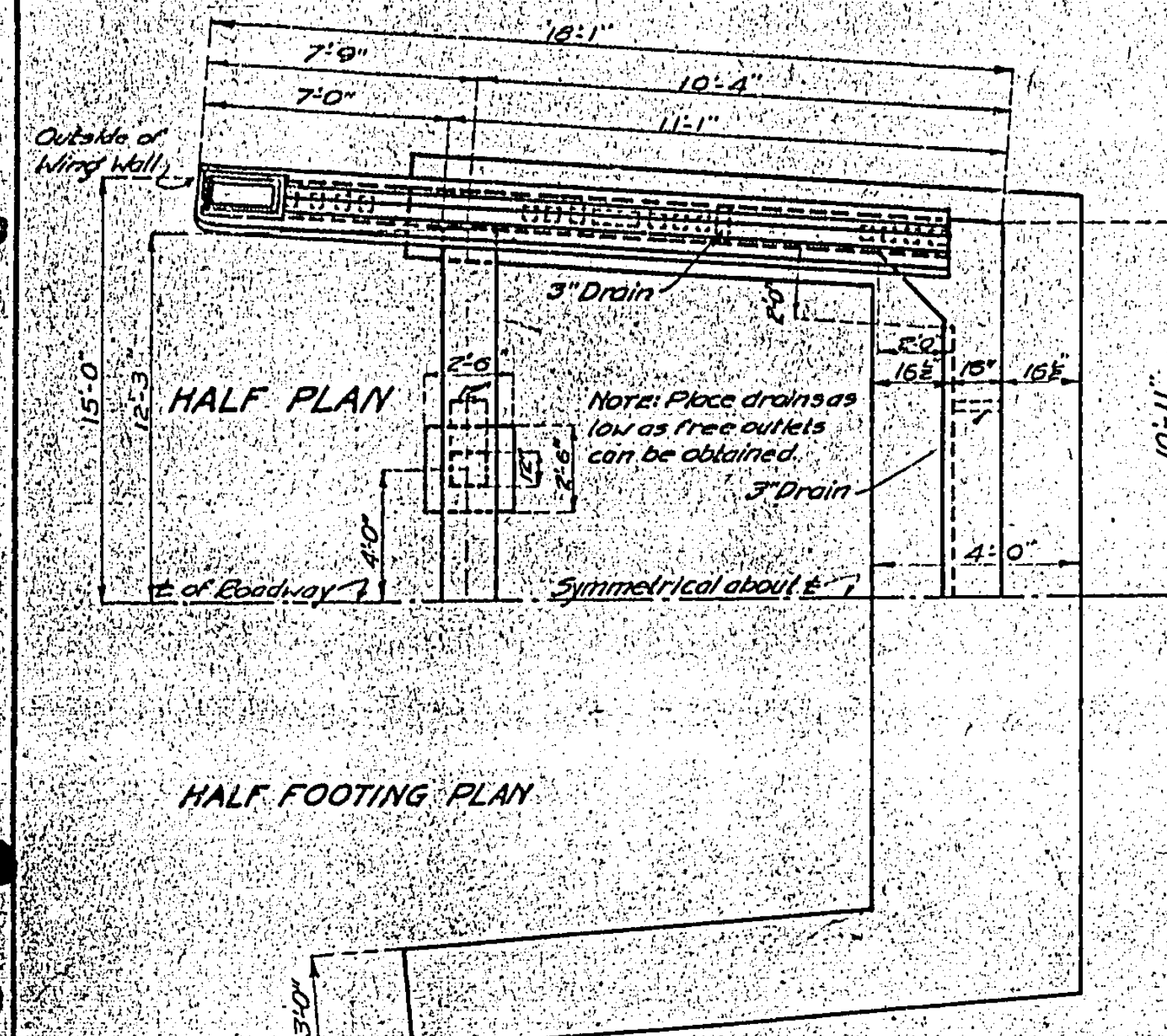
ELEVATION OF FRONT WALL



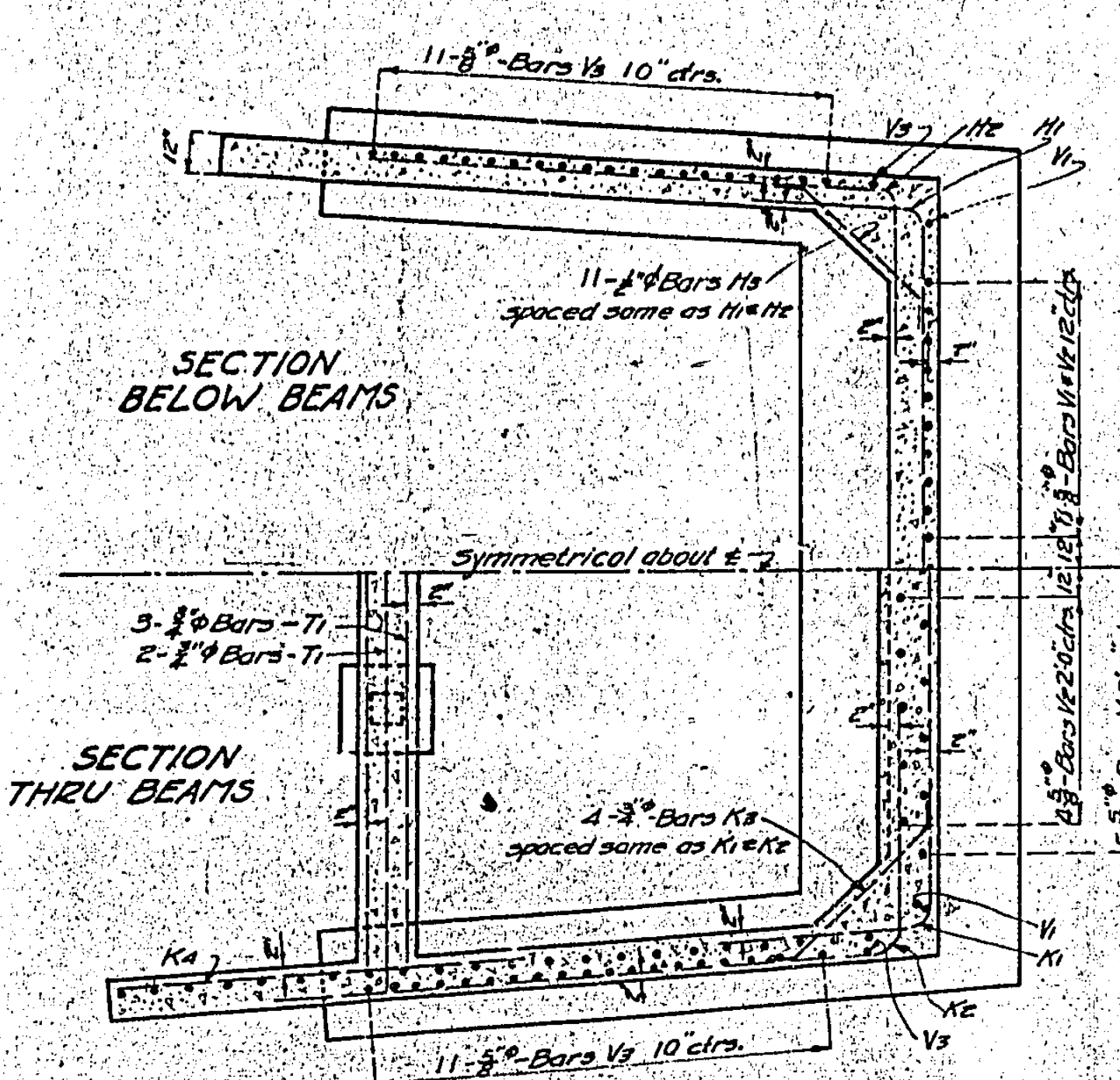
SECTION THRU ABUTMENT SHOWING RAIL PARTITION JOINT



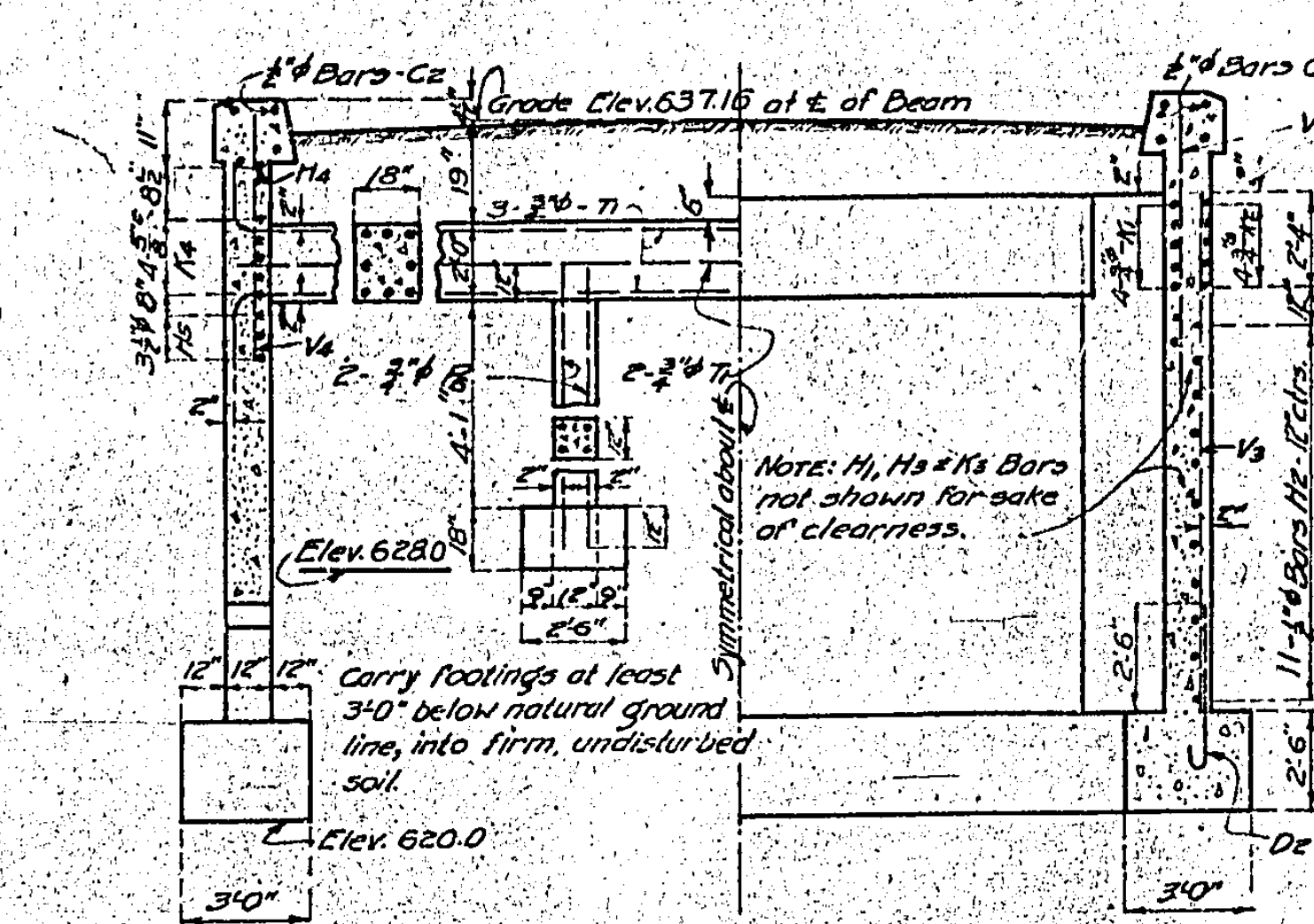
DETAIL OF NOTCH FOR APPROACH SLAB



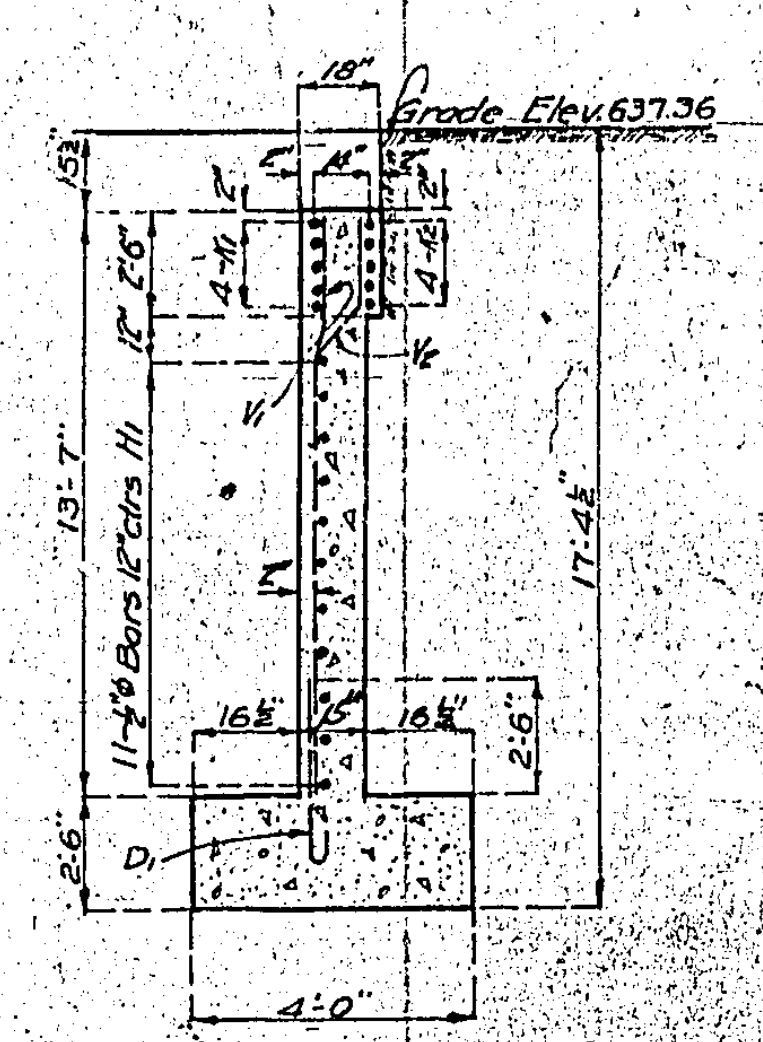
HALF FOOTING PLAN



SECTION THRU BEAMS



BACK OF TIE BEAM BACK OF FRONT WALL SECTION THRU WING WALLS



SECTION THRU FRONT WALL

DETAILS OF ABUTMENT NO. 1

BRIDGE OVER DRY CREEK
STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 28 MILES NE. OF THAYER
PROJECT NO. R42-52 STA 1494+18
OREGON COUNTY

Assembled June 1925 by M.J.D.
Checked July 1925 by R.L.D.
Drawn June 1925 by C.E.D.
Checked June 1925 by J.T.

Sheet #2 of 4

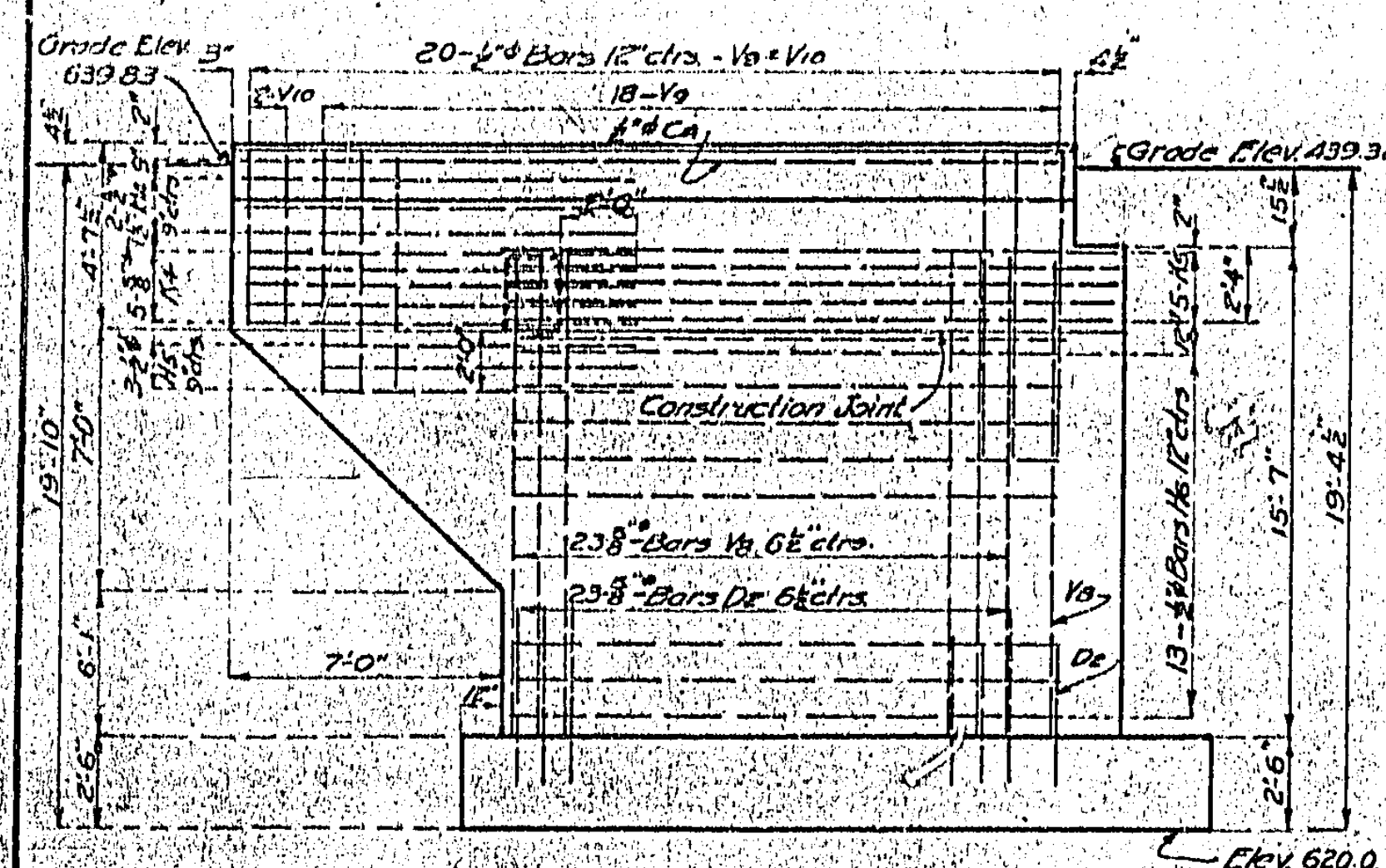
19'-0" MAX. HT. - SLABS - U-ABUTMENTS C504

STD. C5318
H-174

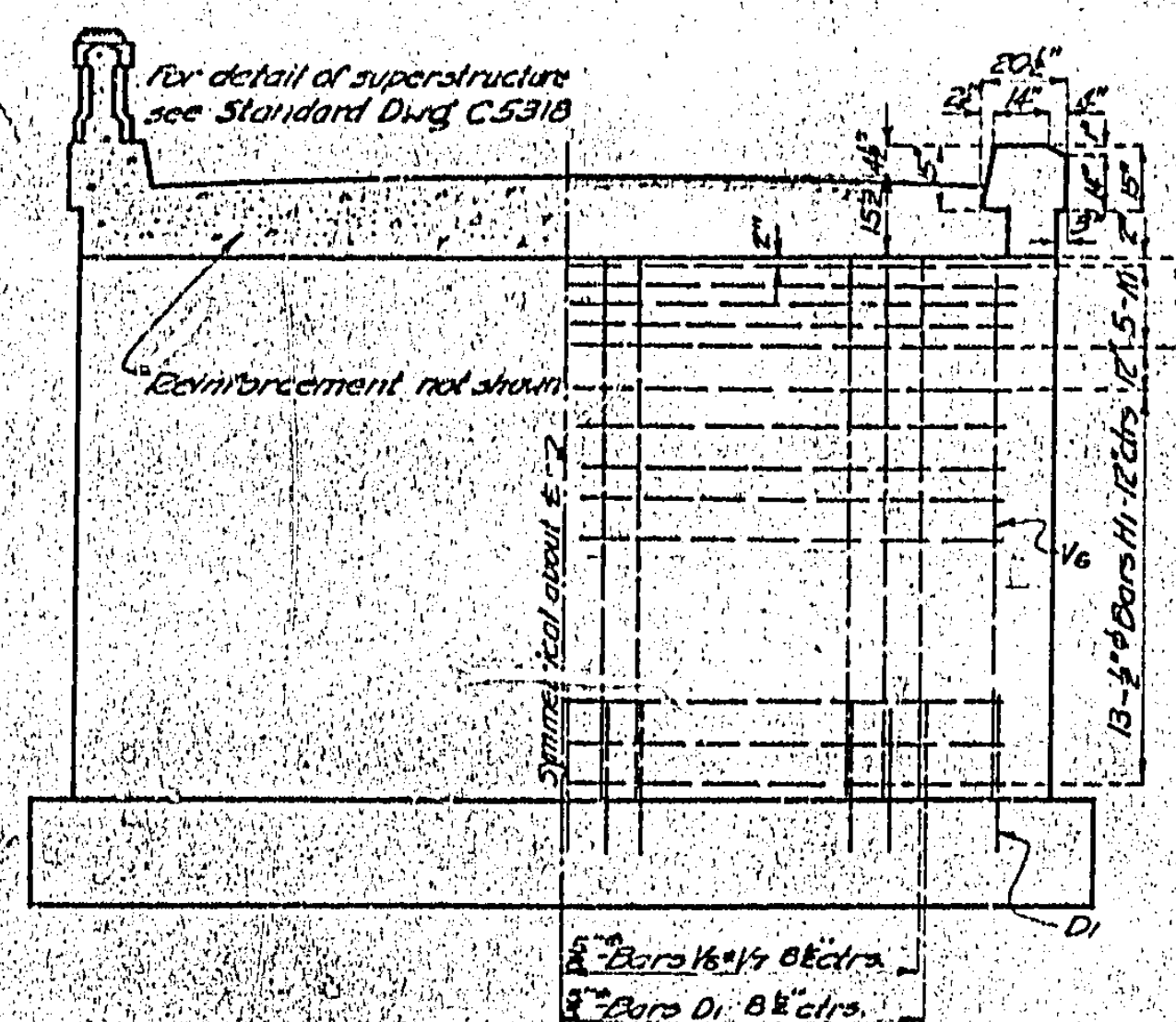
261

MISSOURI STATE HIGHWAY DEPARTMENT

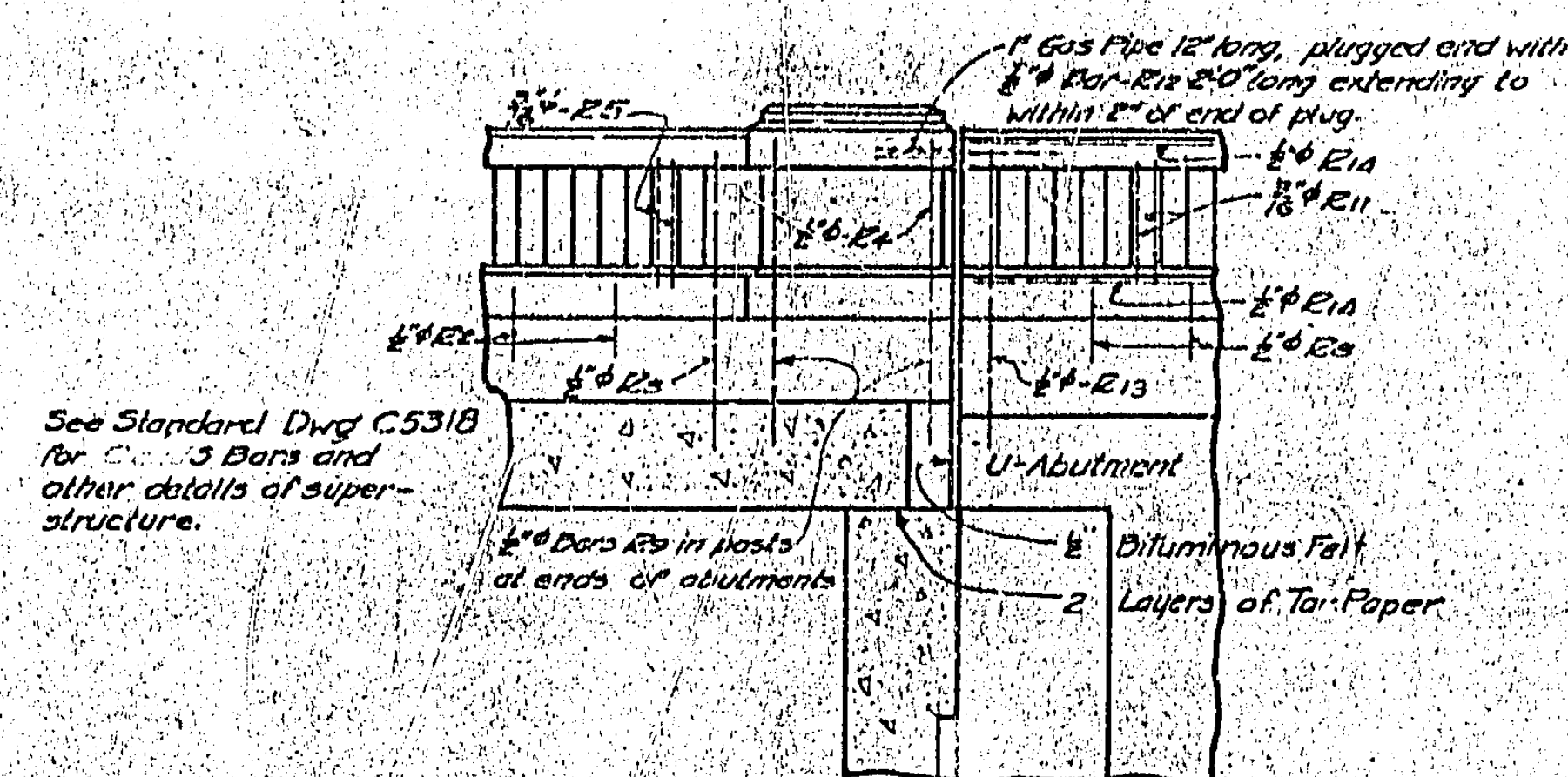
FRAUD CASE NO.	STATE	FBI AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	MO	R42-52	19		



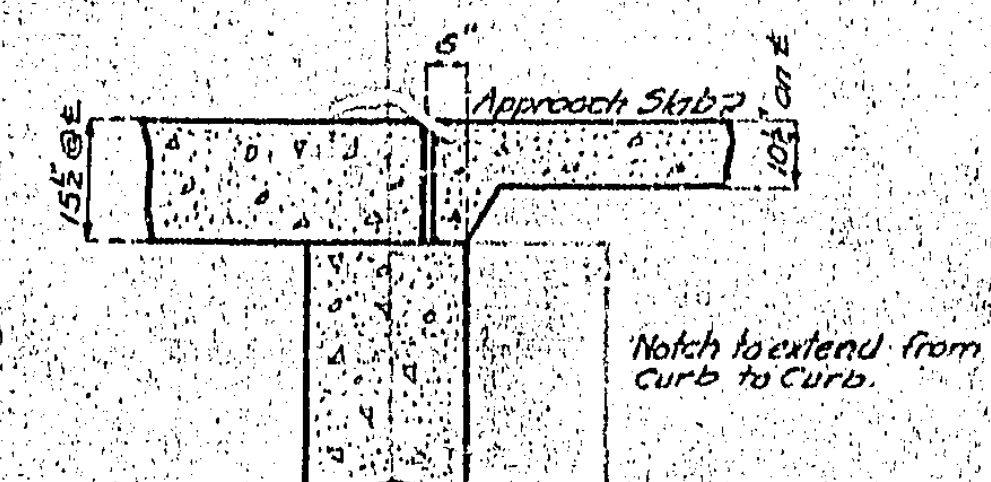
ELEVATION OF WING



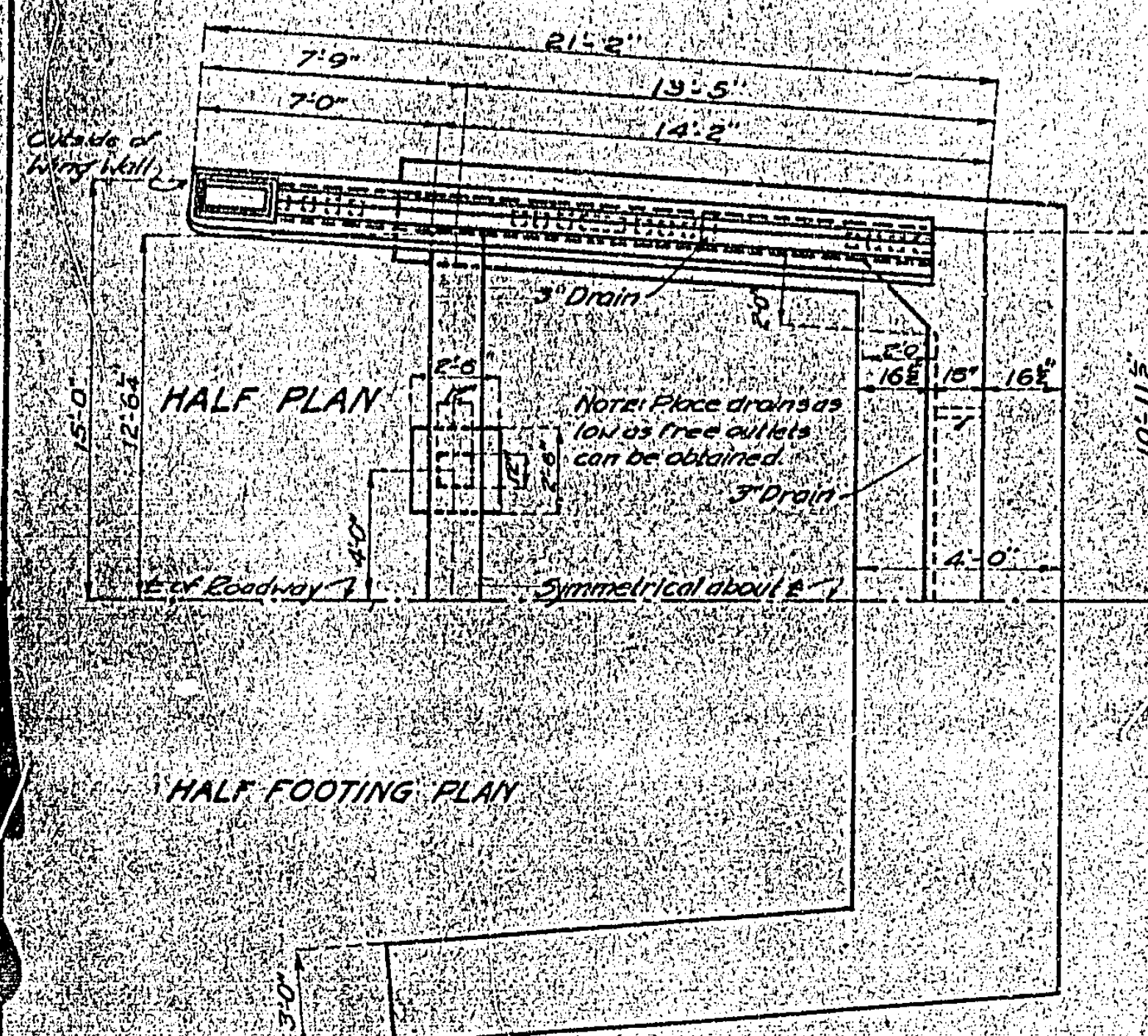
ELEVATION OF FRONT WALL



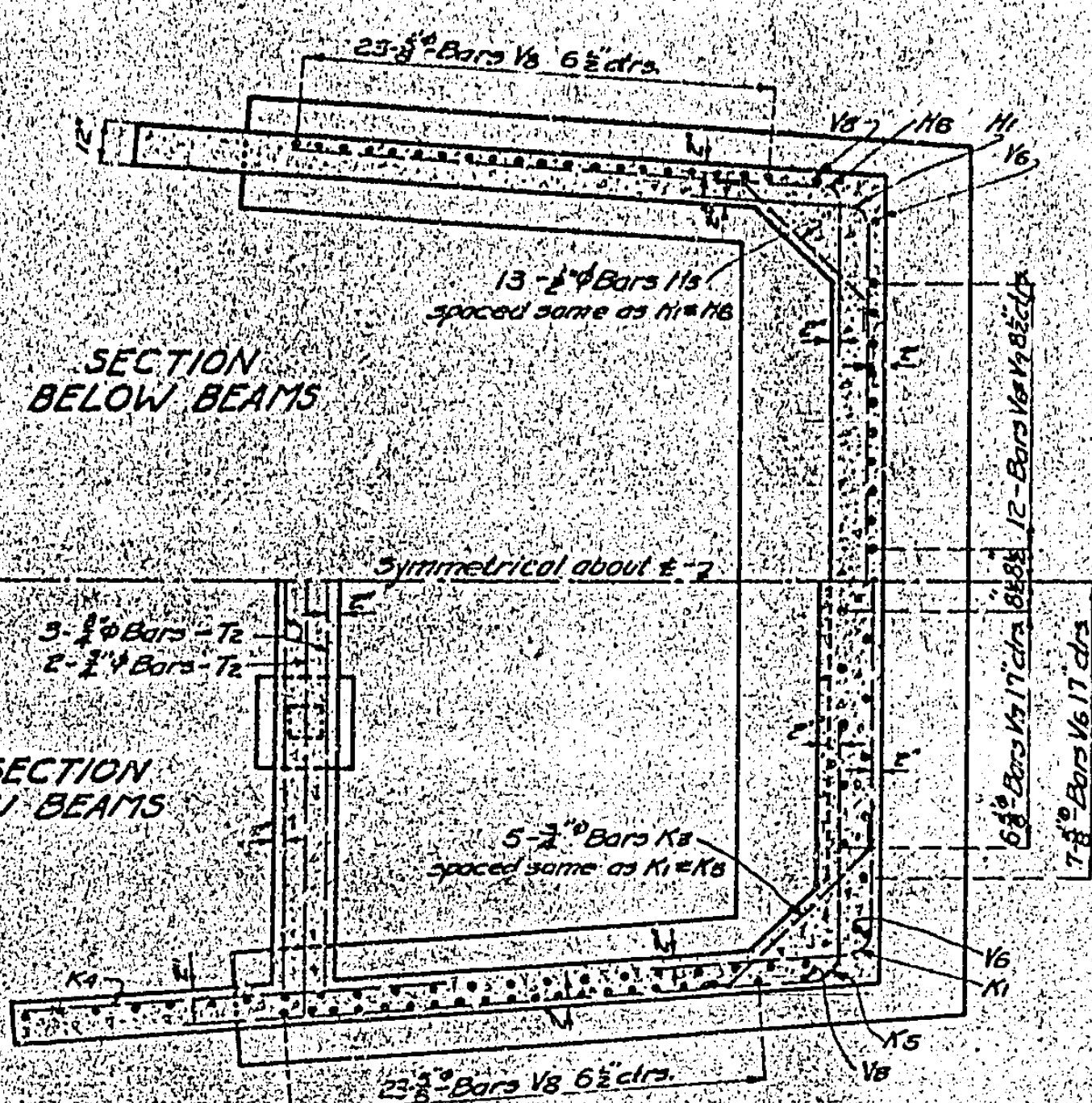
SECTION THRU ABUTMENT
SHOWING RAIL EXPANSION JOINT



DETAIL OF NOTCH FOR
APPROACH SLAB

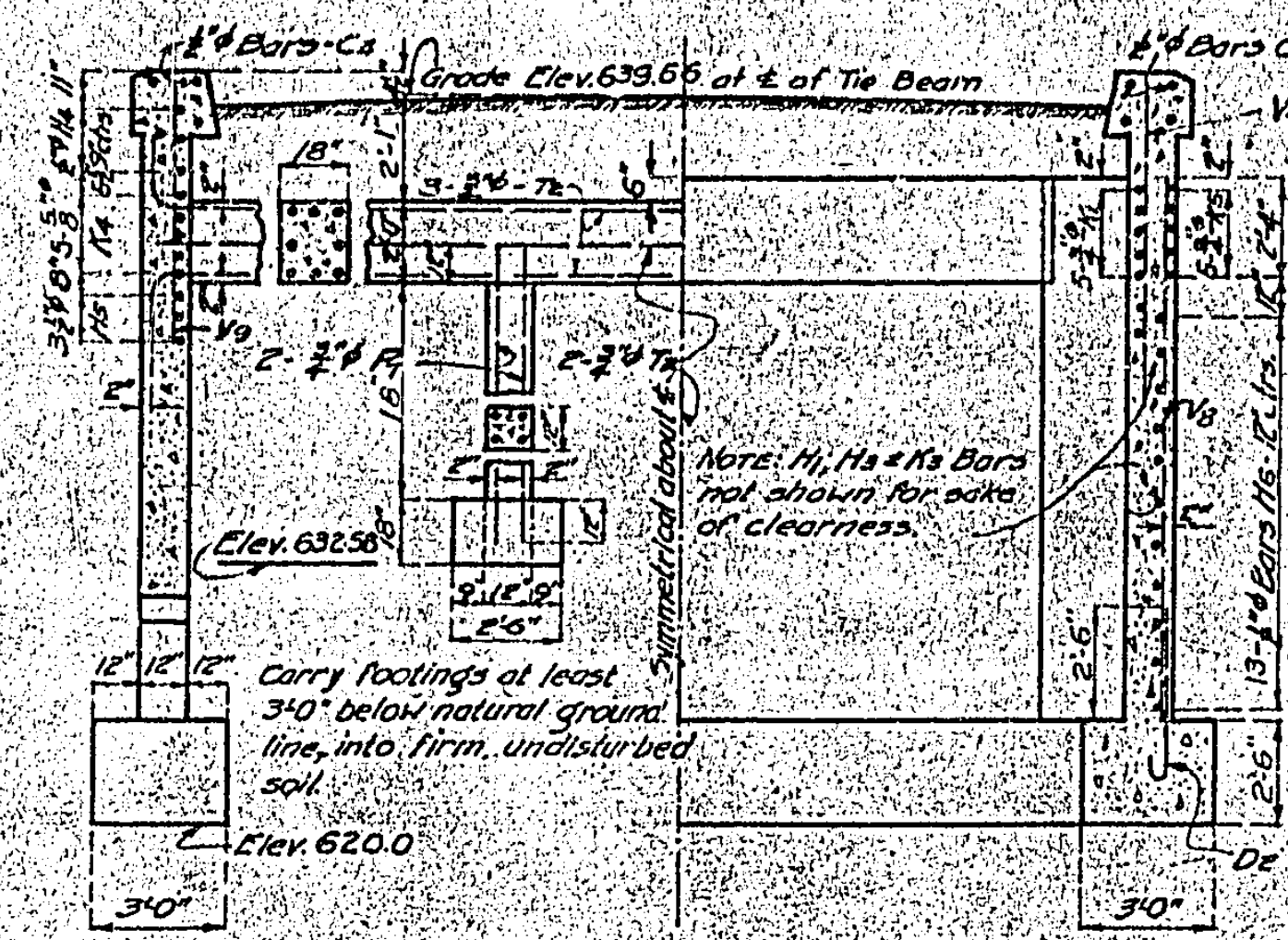


HALF FOOTING PLAIN

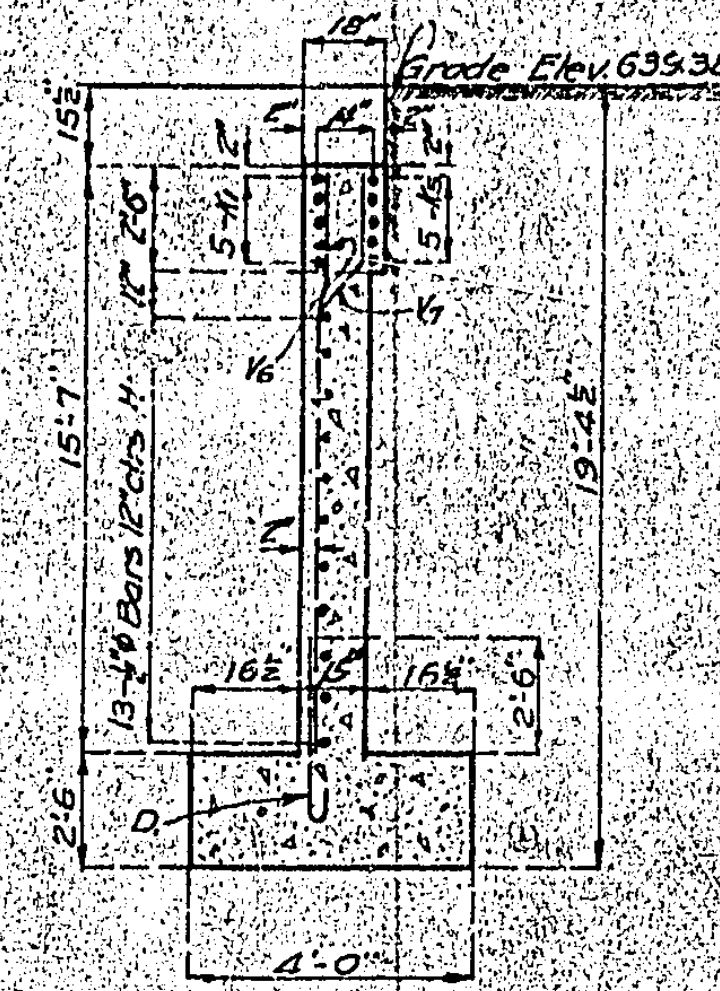


SECTION
BELOW BEAMS

**SECTION
THRU BEAMS**



BACK OF TIE BEAM BACK OF FRONT WALL
SECTION THRU WING WALLS



SECTION THRU FRONT WALL

DETAILS OF ABUTMENT NO. 6

BRIDGE OVER DRY CREEK

STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 28 MILES N.E. OF THAYER
PROJECT NO. R42-S2 STA 1494+18

OREGON COUNTY

SUBMITTED BY: *J. Hendrup* DATE: 7/4/55
ORIGIN: ENGL127H
APPROVED BY: _____ LATI: _____

STD. C5318

Assembled	June	1925	by	M.J.D.
Checked	July	1925	by	B.L.
Drown	June	1925	by	R.D.
Checked	June	1925	by	J.I.

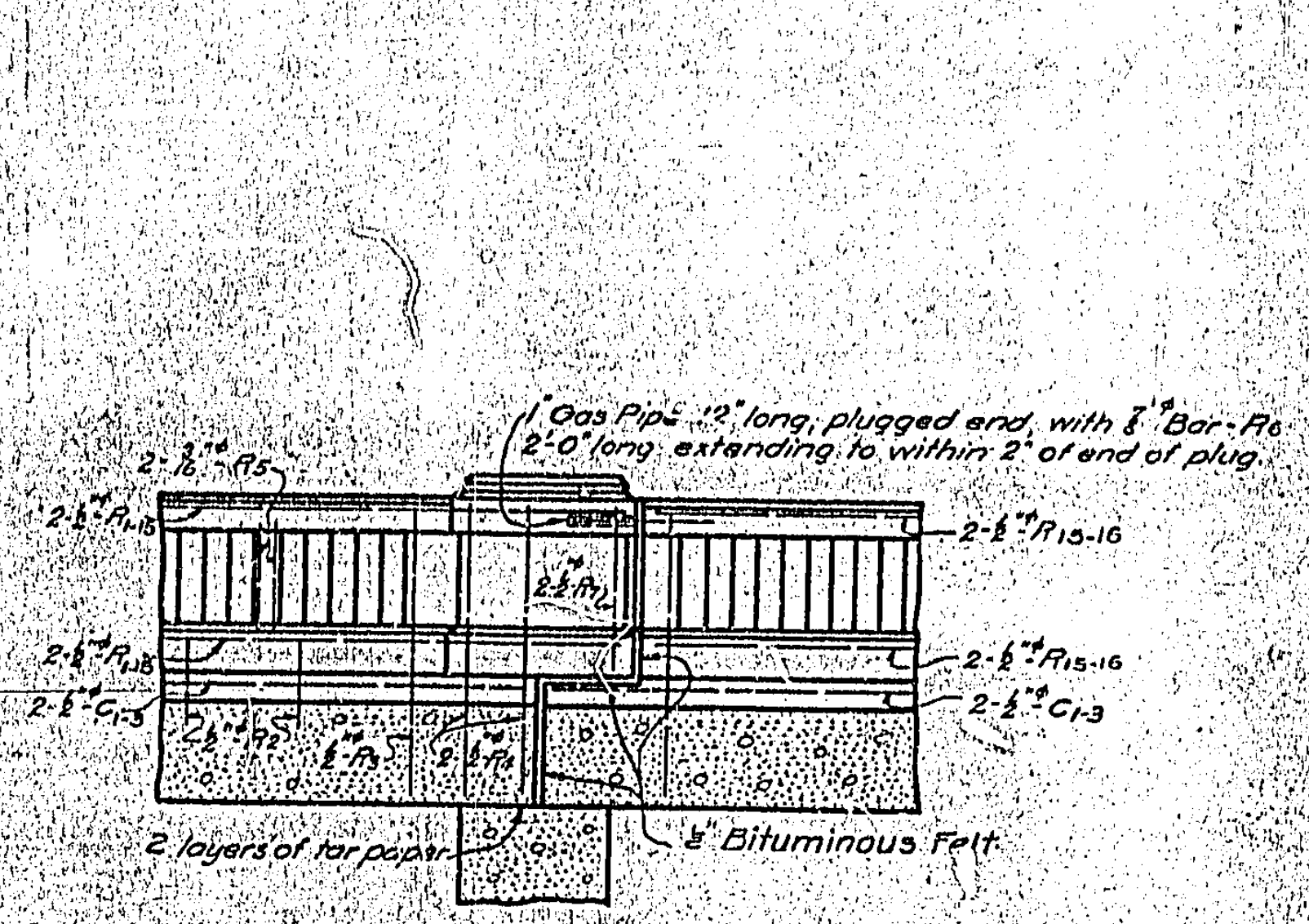
1960 PLAZ. BR. - SLABS - U-ABUTMENTS C50

127

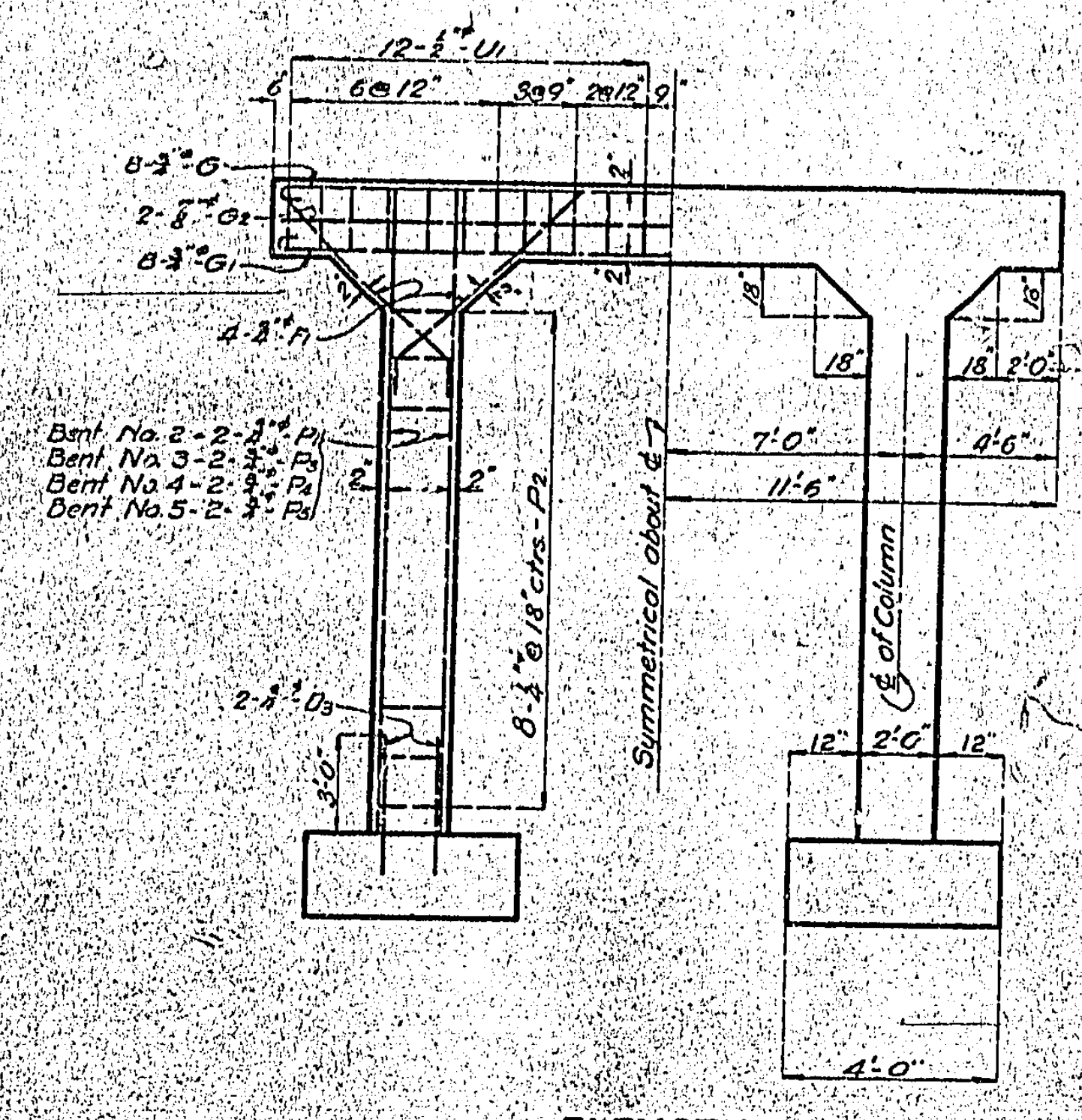
17

MISSOURI STATE HIGHWAY DEPARTMENT

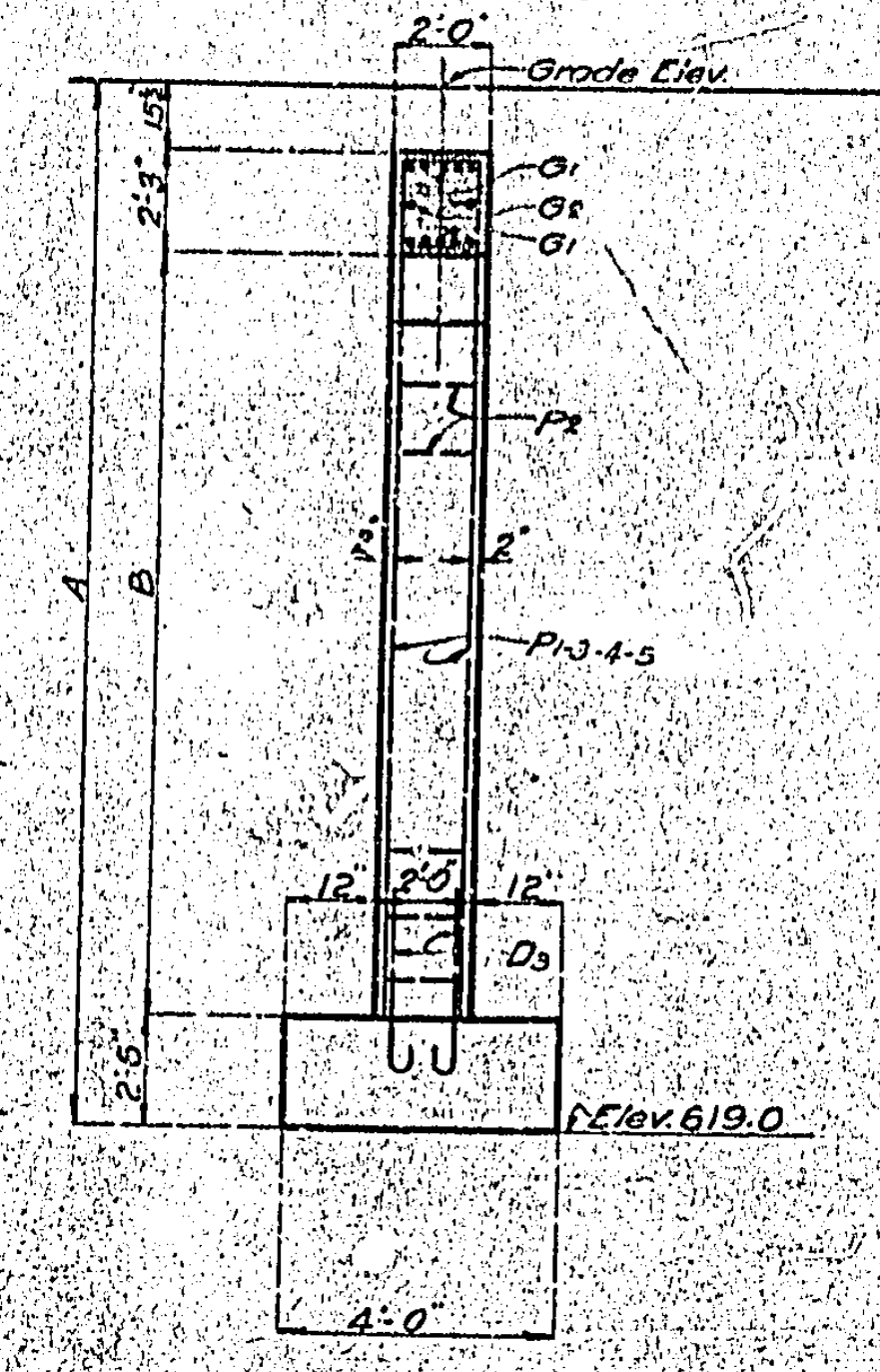
DESIGN NO.	DATE	REV. NO.	REV. DATE	SHEET NO.	TOTAL SHEETS
5	NO.	RA2-52	19		



SECTION THRU EXPANSION JOINTS
OVER BENTS NOS. 2, 3, 4, & 5

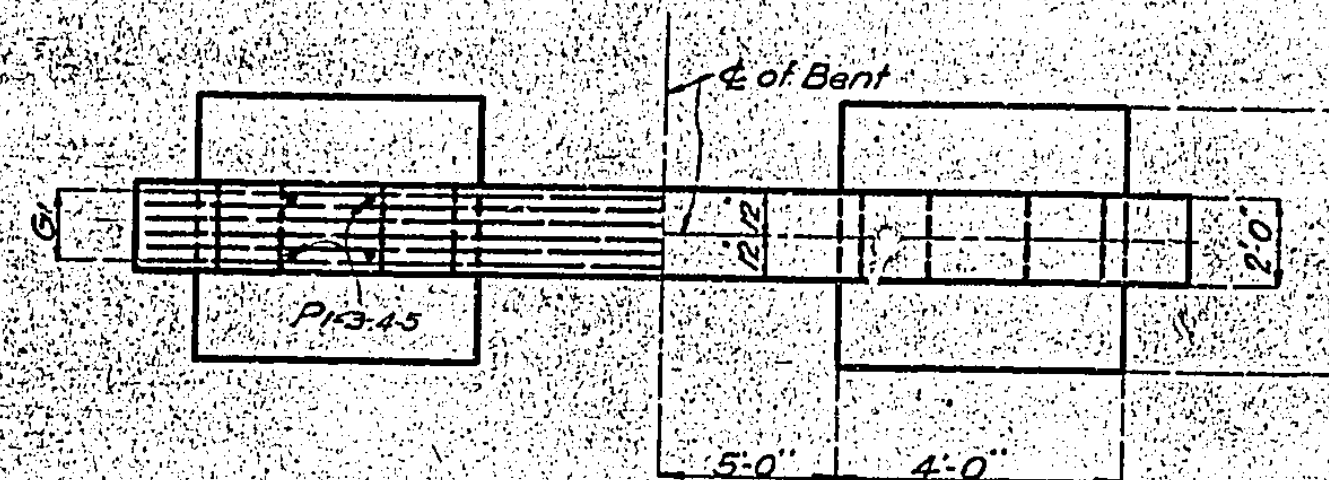


ELEVATION



SECTION AT E

BENT NO.	GRADE ELEV.	A	B
2	637.75	18'-9"	12'-0"
3	638.16	19'-2"	13'-12"
4	638.37	19'-7"	13'-6"
5	639.99	20'-0"	13'-11"



PLAN
DETAILS OF BENTS NOS. 2, 3, 4, & 5

BRIDGE OVER DRY CREEK
STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 28 MILES N.E. OF THAYER
PROJECT NO. RA2-52 STA. 1494+18
OREGON COUNTY

SUBMITTED BY: *[Signature]* DATE: 7-7-20
APPROVED BY: *[Signature]* CHIEF ENGINEER

Std. C5318
H 174

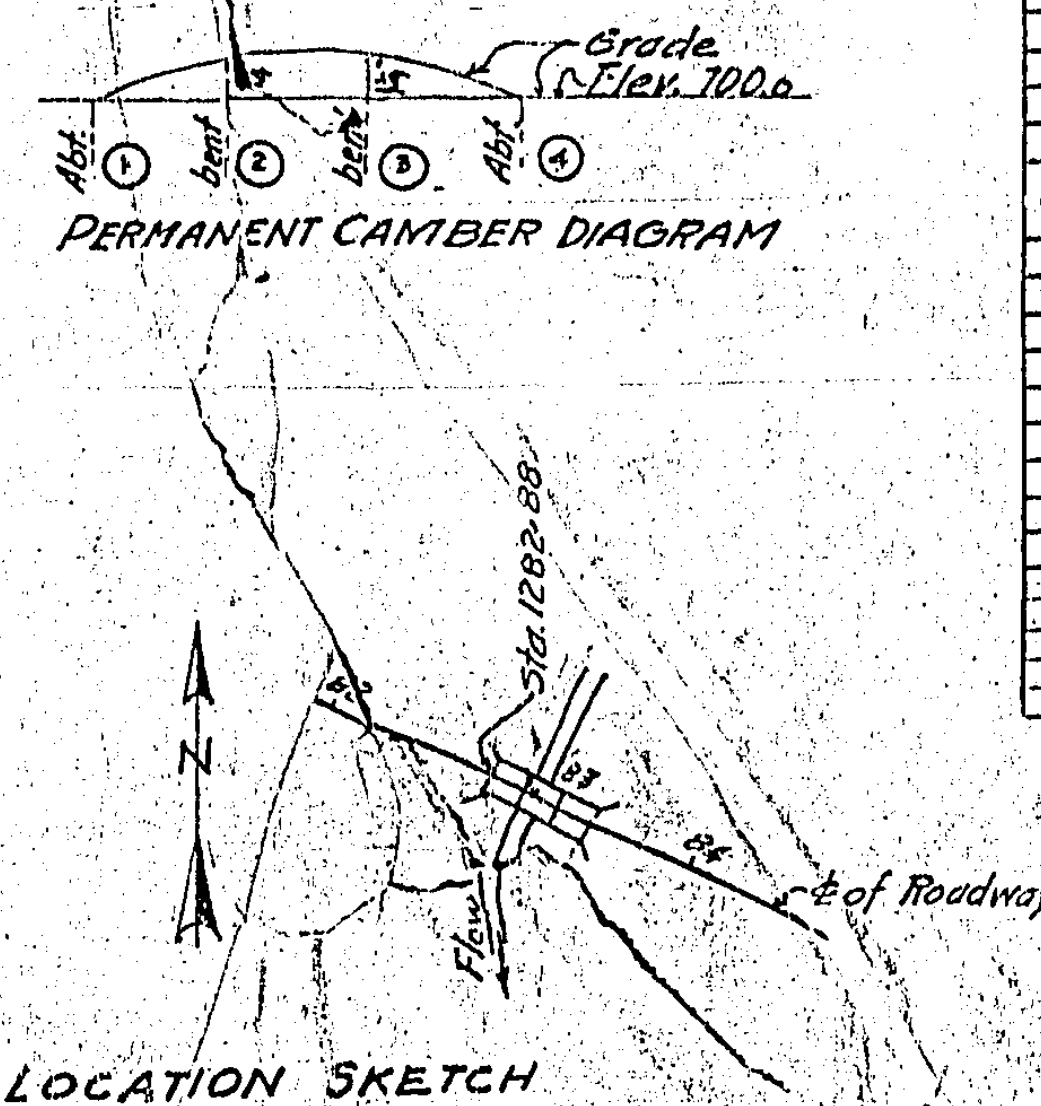
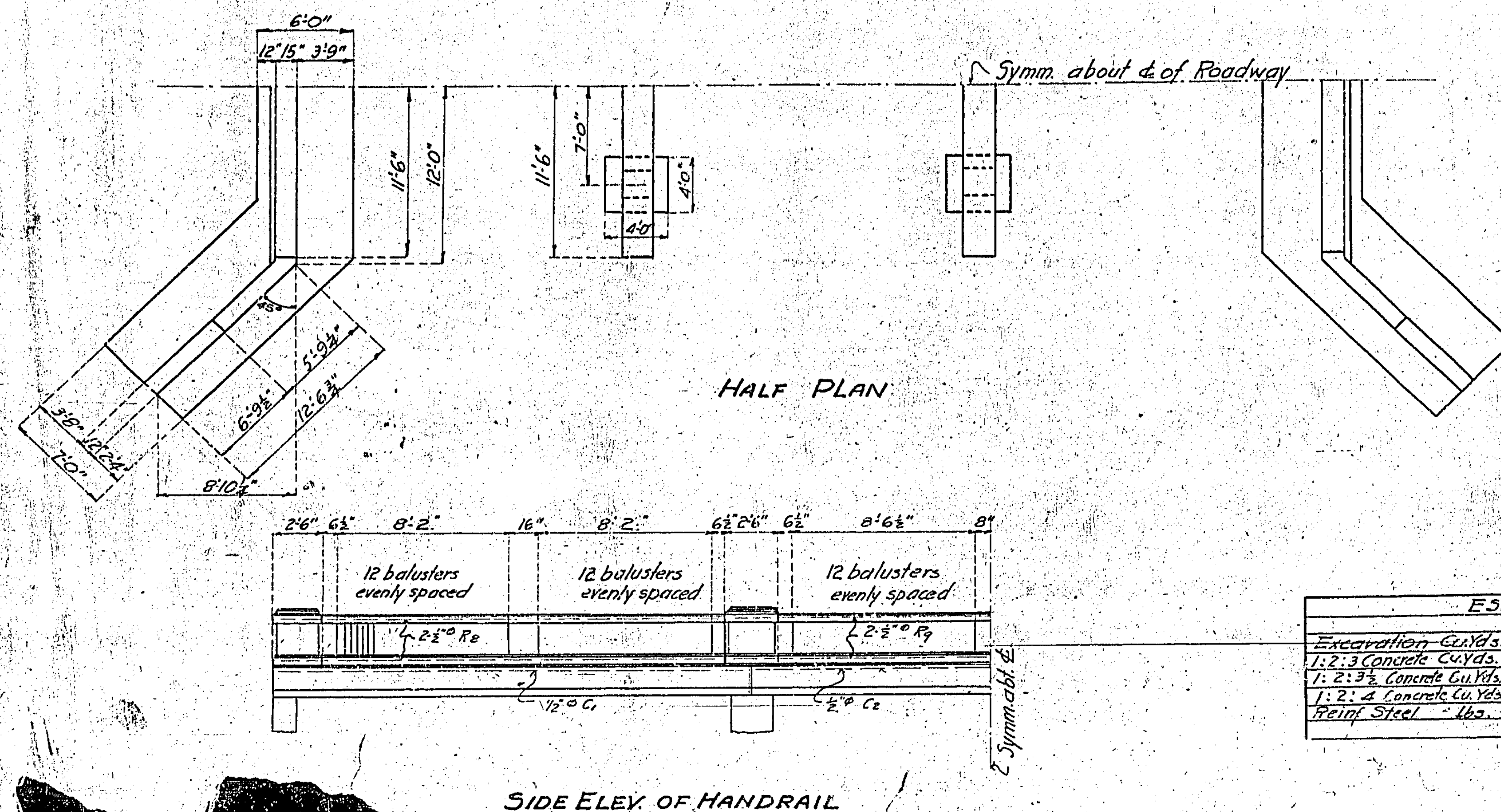
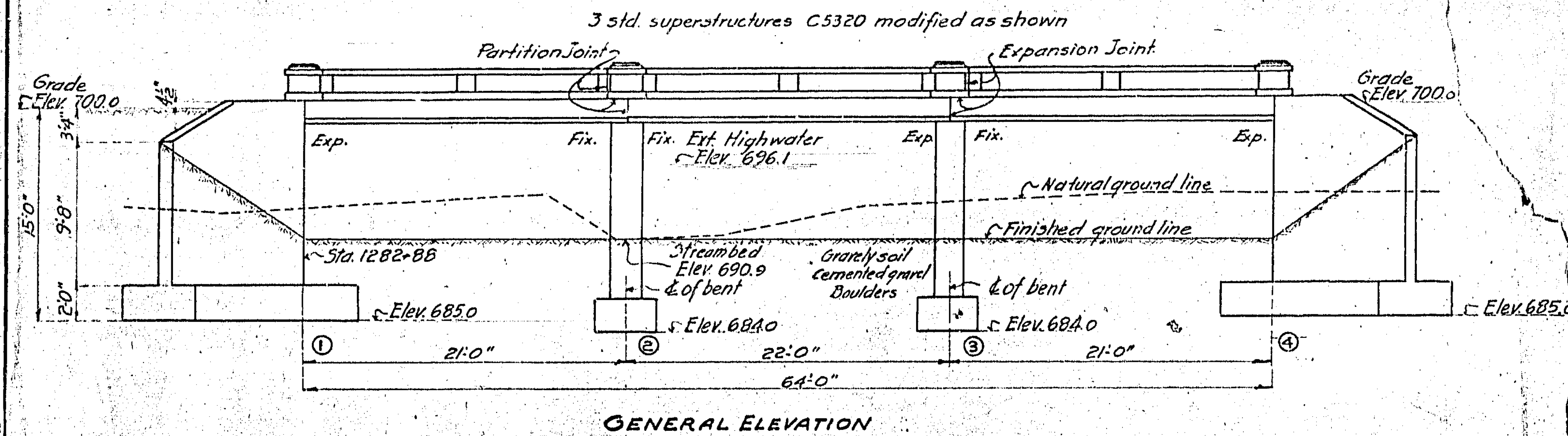
Assembled June 1925 By M.J.D.
Checked July 1925 By B.J.O.
Drawn May 1925 By J.J.
Checked May 1925 By R.G.O.

Sheet 3 of 4

Slabs - Intermediate Bents - C502

MISSOURI STATE HIGHWAY DEPARTMENT

18



BILL OF REINFORCING STEEL

Bending Sketches

NO.	Size	Length	Mark
Superstructure			
162	1/2"	21'-8"	S1
42	1/2"	22'-6"	S2
8	1/2"	22'-3"	C1
4	1/2"	22'-3"	C2
60	1/2"	12"	R2
24	1/2"	8'-0"	R3
32	1/2"	4'-0"	R4
576	1/2"	18"	R5
4	1/2"	2'-0"	R6
8	1/2"	2'-3"	R7
16	1/2"	2'-0"	R8
8	1/2"	22'-3"	R9
Substructure			
40	1/2"	18'-6"	A1
42	1/2"	12'-0"	A2
50	1/2"	11'-6"	A3
16	1/2"	6'-3"	D1
6	1/2"	24'-0"	F1
16	1/2"	14'-6"	F2
50	1/2"	11'-9"	F3
56	1/2"	6'-6"	F4
32	1/2"	8'-0"	F5
36	1/2"	24'-0"	G1
4	1/2"	22'-9"	G2
48	1/2"	25'-0"	H1
8	1/2"	22'-0"	H2
16	1/2"	12'-0"	P1
24	1/2"	8'-0"	P2
48	1/2"	8'-0"	U1
4	1/2"	3'-0"	W1
12	1/2"	3'-0"	W2
40	1/2"	11'-3"	W3
12	1/2"	10'-9"	W4
24	1/2"	17'-3"	W5
48	1/2"	5'-0"	W6

Note: Bill of Reinforcing steel is complete.

GENERAL NOTES

Concrete in hand rail to be 1:2:3 mix; concrete in abutments, wings and slabs to be 1:2:3 1/2 mix; concrete in bents, wings and footings to be 1:2:4 mix

Exposed edges to be beveled 1/4" where no other bevel is noted

Entire bridge to be cambered as shown by grade elev.

Excavation to be paid for below line shown as finished ground

B.M. Elev. 698.00, Nail in base of 18" Walnut 80' right

BRIDGE OVER COX BRANCH

STATE ROAD FROM ALTON TO DONIPHAN
ABOUT 2 1/2 MILES N.E. OF T. HAYER
PROJECT NO. R 42-52 STA. 1282+88

OREGON COUNTY

SUBMITTED BY *[Signature]* DATE *2-2-21*
BRIDGE ENGINEER *[Signature]* DATE *2-2-21*

ESTIMATED QUANTITIES

	Superstructure	Substructure	Totals
Excavation Cu Yds.	7.2	7.2	14.4
1:2:3 Concrete Cu Yds.	77.6	77.6	155.2
1:2:3 1/2 Concrete Cu Yds.	116.5	116.5	233.0
Reinforcing Steel lbs.	8770	10140	18910

Standards

TYP SEC & Earthwork

Route 412
Sec or Proj 2
County OREGON
Sheet # 19

Surface - curb & Gutter & App

Drainage
C-233
C-234

Bridges
C-5320
C-5318

Conc. Reinf Apports,
Finish Etc.

MISC.

265

DATE	BY	REVIEWED	DATE
FINAL SURVEY	NO. 1	NO. 2	NO. 3
NO.			

DATE	BY	REVIEWED	DATE
ORIGINAL SURVEY	NO. 1	NO. 2	NO. 3
NO.			