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STD. DIV. LANE INTERSTATE			
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MISCELLANEOUS STANDARDS, SHEET 'NS'			
MISCELLANEOUS STANDARDS, SHEET 'NT'			
MISCELLANEOUS STANDARDS, SHEET 'NU'			
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STD. FOR SUPERELEVATION			
STD. FOR SUPERELEVATION AND WIDENING OF CURVES			
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STD. OF FOUR SIGNS, SHEET 2			
STD. OF FOUR SIGNS, SHEET 3			
STD. OF FOUR SIGNS, SHEET 4			
CROSS SECTIONS			

STATE OF INDIANA  
INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY

PROJECT NO. I-70-3 (56)77 P.E. (52)77 R/W (62)77 UTILITIES (71)77 CONSTR.

BEGINNING AT A POINT APPROXIMATELY 800 FEET NORTH OF THE SOUTH LINE AND APPROXIMATELY 1200 FEET WEST OF THE EAST LINE OF SECTION II, T. 5N, R. 3E, AND EXTENDING IN THE EASTERLY DIRECTION FOR A DISTANCE OF 3780.00 FEET TO A POINT APPROXIMATELY 800 FEET NORTH OF THE SOUTH LINE AND APPROXIMATELY 2900 FEET WEST OF THE EASTLINE OF SECTION 12, T. 15 N, R. 3 E, ALL IN THE CITY OF INDIANAPOLIS, MARION COUNTY.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	70-3(71)77	197	1	139

Rev 3-21-72 Constr. Identification Signs

DESIGN DATA	
A.D.T. (1972)	31,290 V.P.D.
A.D.T. (1992) PROJECTED	72,590 V.P.D.
D.A.V.	7,260 V.P.H.
DIRECTIONAL DISTRIBUTION	60% B 40%
TRUCKS	A.D.T. +14% D.H.V. 7%
DESIGN SPEED	50 M.P.H.
ACCESS CONTROL	FULL

R/W PLANS FOR THIS PROJECT INCLUDE R/W FOR SEPARATE CONTRACT STRUCTURES

DATE MARCH 29, 1971

REGISTERED PROFESSIONAL ENGINEER  
STATE OF INDIANA NO. 3463

THESE PLANS PREPARED BY CHAS. W. COLE & SON  
ENG. VEERS SOUTH BEND, INDIANA

END PROJECT I-70-3(71)77  
LIMIT OF CONST. PROJECT I-65-3(106) III  
STA. 351+60.00 L I-70

- LEGEND FOR BARRICADES & SIGNS
- (A) BARRICADE - TYPE III
  - (B) PERMANENT BARRICADE TYPE III
  - (C) BARRICADE - TYPE III
  - (D) CONSTRUCTION SIGN TYPE A
  - (E) CONSTRUCTION IDENTIFICATION SIGN
  - (F) MOVABLE BARRICADE (NOT A PAY ITEM)
  - (G) PERMANENT BARRICADE TYPE III IN PLACE
  - (H) PERMANENT BARRICADE TYPE III TO BE RELOCATED.

CONSTR. EXCEPTION  
Sta. 314+00.0 to Sta. 327+64.08

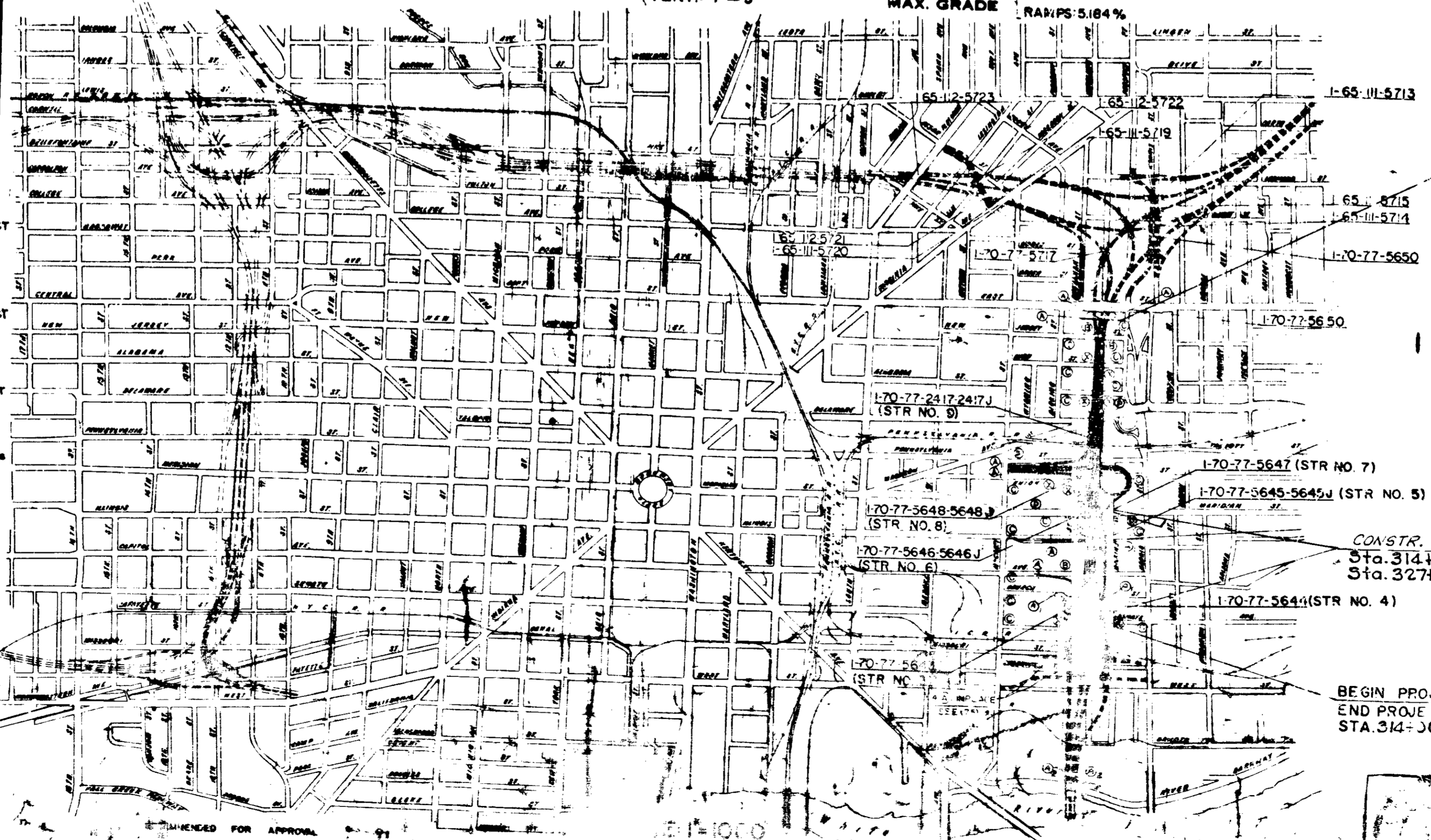
BEGIN PROJECT I-70-3(71)77  
END PROJECT I-70-3(75)77  
STA. 314+00.00 L I-70

APPROVED

FEDERAL HIGHWAY ADMINISTRATION  
DEPARTMENT OF TRANSPORTATION  
APPROVED  
DIVISION ENGINEER DATE

ROAD FILE -

GROSS LENGTH: .712 MI.  
NET LENGTH: .362 MI.  
SCALES: PLAN (LONG: 1"=50' TRANS: 1"=50') HORIZ: 1"=50' VERT: 1"=5' MAX. GRADE 3.10% RAMP 5.184%



STRUCTURE NO.	DESIGNATION
STRUCTURE NO 3	RAMP 5' N.W. BRIDGE FILE NO. I-70-77-5643 PROJECT NO. I-70-3(75)77 CONSTRUCTED UNDER SEPARATE CONTRACT
PAVING EXCEPTION	STA 318+25 TO STA 318+62.13
STRUCTURE NO 4	RAMP 8' W.N. BRIDGE FILE NO. I-70-77-5644 PROJECT NO. I-70-3(75)77 CONSTRUCTED UNDER SEPARATE CONTRACT
PAVING EXCEPTION	STA 314+07.99 TO STA 316+36.11
STRUCTURE NO 5	BRIDGE FILE NO. I-70-77-5642 PROJECT NO. I-70-3(75)77 CONSTRUCTED UNDER SEPARATE CONTRACT
PAVING EXCEPTION	STA 322+06.75 TO STA 323+33.06
STRUCTURE NO 6	CONSTRUCTED UNDER SEPARATE CONTRACT PAVING EXCEPTION STA 325+86.24 TO STA 327+64.08 BRIDGE FILE NO. I-70-77-5646 BRIDGE PROJECT I-70-3(69)77
STRUCTURE NO 7	RAMP 8' W.N. CONSTRUCTED UNDER SEPARATE CONTRACT PAVING EXCEPTION STA 327+57.36 BRIDGE FILE NO. I-70-77-5647 BRIDGE PROJECT NO. I-70-3(69)77
STRUCTURE NO 8	BRIDGE FILE NO. I-70-77-5648 PROJECT NO. I-70-3(71)77 TO BE CONSTRUCTED IN COMBINATION WITH ROAD CONTRACT PAVING EXCEPTION STA 331+52.10 TO STA 332+84.10
STRUCTURE NO 9	CONSTRUCTED UNDER SEPARATE CONTRACT PAVING EXCEPTION STA 334+75.25 TO STA 340+07.74 BRIDGE FILE NO. I-70-77-2417 BRIDGE PROJECT NO. I-70-3(68)77

REVISIONS		
SHEET NO.	DATE	REVISED

INDEX	
SHEET NO.	DESIGNATION

STATE HIGHWAY DEPARTMENT OF INDIANA.  
STANDARD SPECIFICATIONS DATED 1971  
TO BE USED WITH THESE PLANS.

DESIGNED FOR APPROVAL  
J. R. [Signature]

APPROVED FOR APPROVAL

PROJECT NO.	LINE	SHEET	TOTAL SHEETS
I-70-3		1	139

UTILITIES

POWER LINES
Indianapolis Power & Light Co.
25 Monument Circle
Indianapolis, Indiana

TELEPHONE LINES & CABLES
Indiana Bell Telephone Co.
240 N. Meridian St.
Indianapolis, Indiana

WATER LINES
Indianapolis Water Co.
101 S. Meridian St.
Indianapolis, Indiana

GAS LINES
Citizen Gas & Coke Utility
2020 N. Meridian St.
Indianapolis, Indiana

SEWER LINES
Indianapolis Sanitary District
Board of Public Works
Room 2441 City-County Building
Indianapolis, Indiana 46204

GENERAL NOTES

Standard divided lane sections for Federal Aid Projects as shown on Sheet No. To be used on this project.
Standard single lane pavement sections as shown on Sheet No. To be used on this project.
Standard single lane pavement sections as shown on Sheet No. To be used on this project.
Standard single lane pavement sections as shown on Sheet No. To be used on this project.

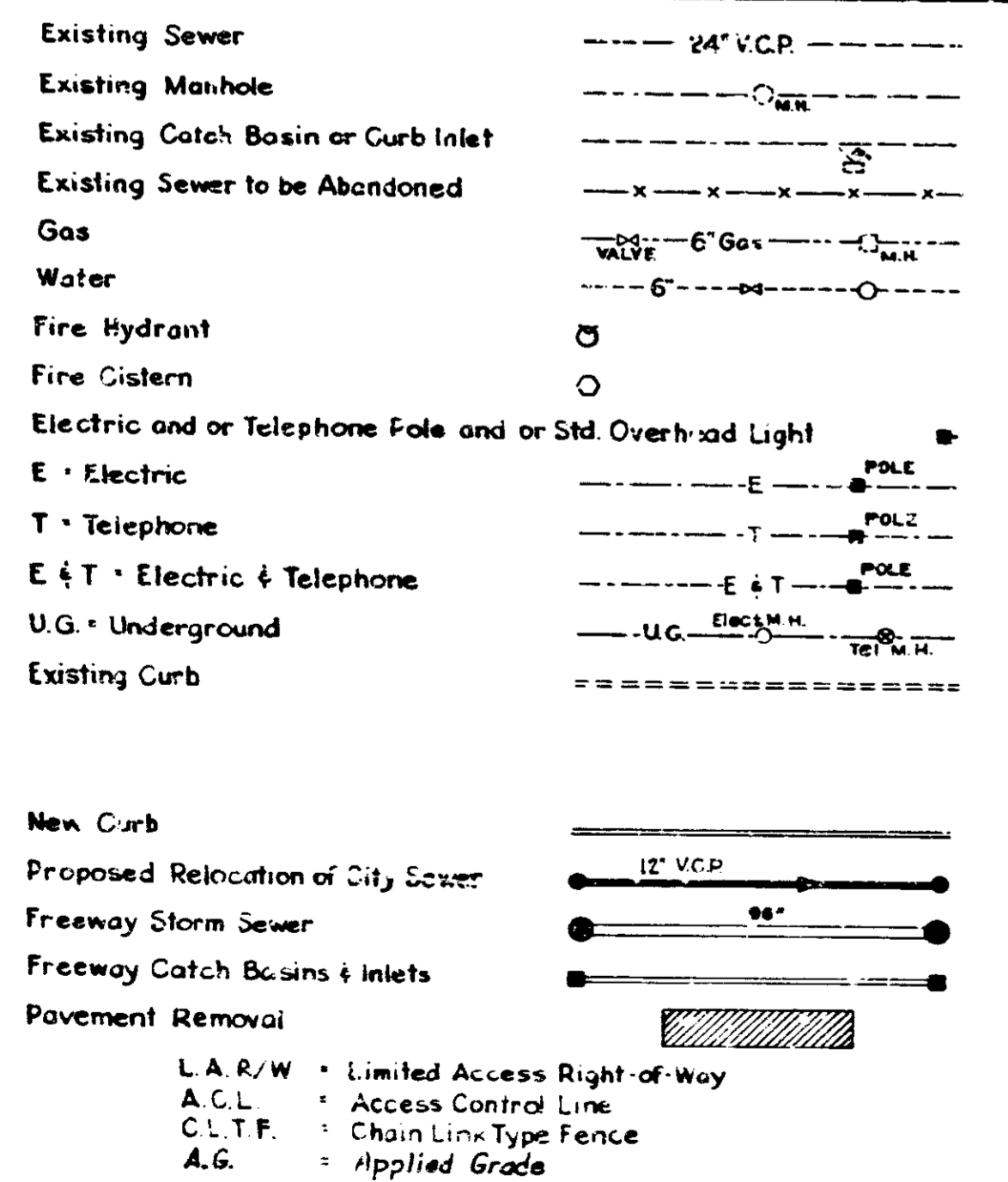
INDEX

Table with columns: SHEET NO., DESIGNATION, F.H.A. APPROVAL, DATE ADOPTED OR LATEST REVISION. Lists sheets 1 through 117 and their corresponding titles and approval dates.

REVISIONS

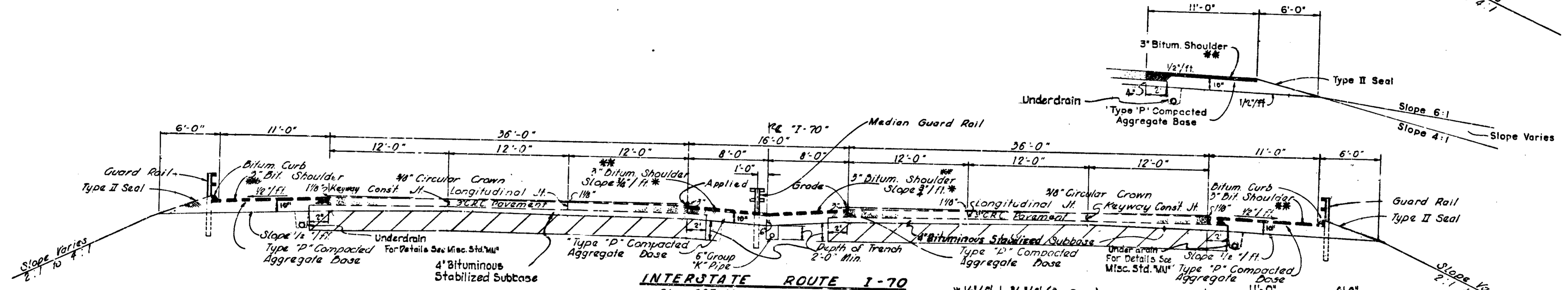
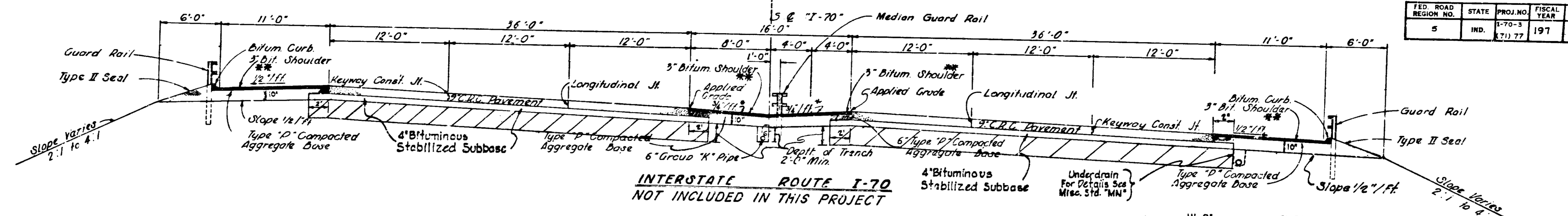
Table with columns: SHEET NO., DATE, REVISED. Lists revisions to sheet 22, including changes to R/W Revised @ Pav. & Church Sts. and added construction identification signs.

LEGEND



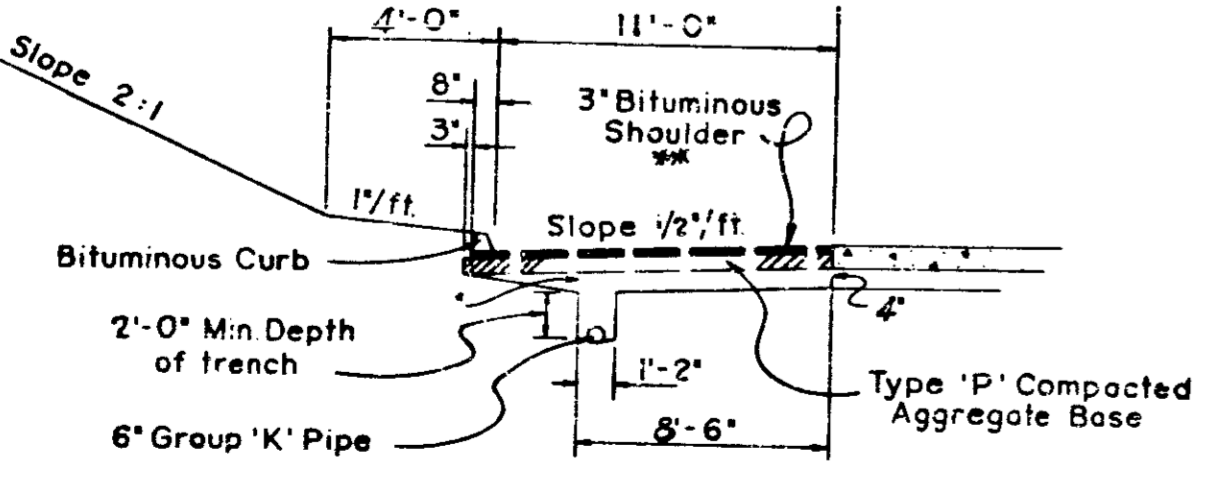
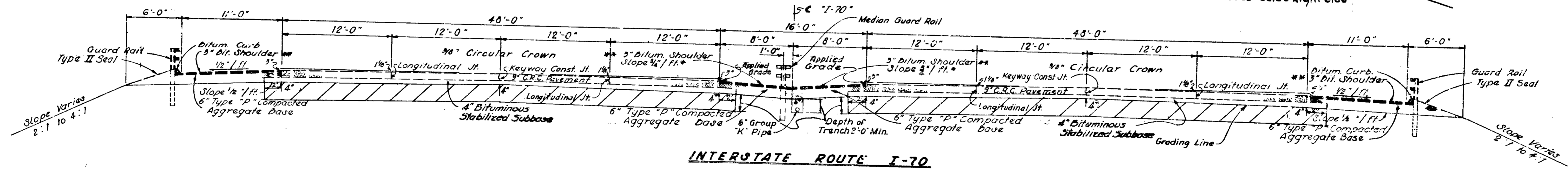
R/W INDEX table with columns: SHEET NO., DESIGNATION. Lists sheets 1 through 117 and their corresponding titles.

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71) 77	197	3	139



\*\*\* 3" Bituminous Base (Size #5) with Type I Seal Cover Aggregate Size 12

\* 1/8" / ft. to 1/4" / ft. (for Sage)



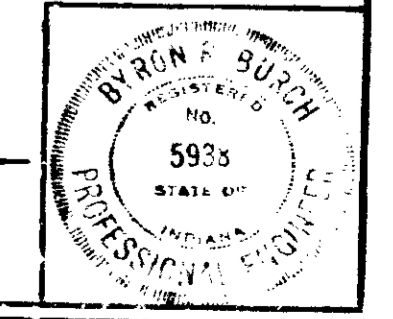
NOTE: 1. ALL SLOPES TO BE SODDED.  
2. SEE STD. SHEET MIN FOR DETAIL OF SUBSURFACE DRAIN.  
Special Subgrade Treatment

# I-70

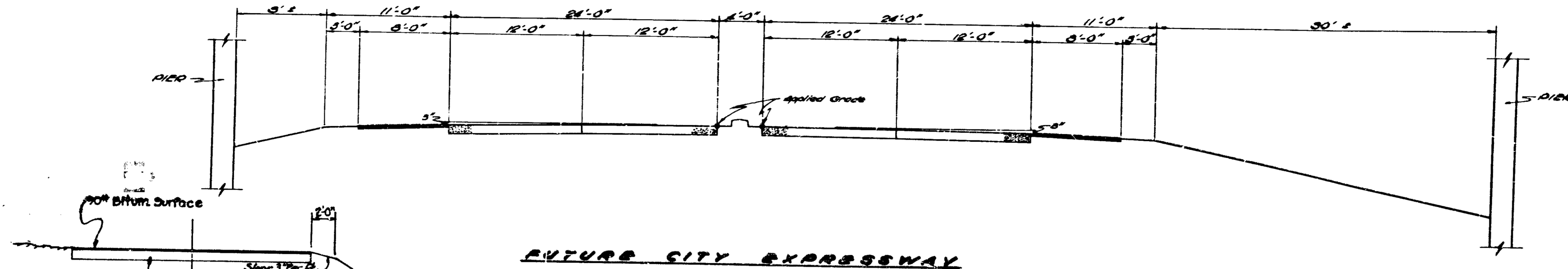
## TYPICAL CROSS SECTIONS

SCALE: 3/16" = 1'-0"

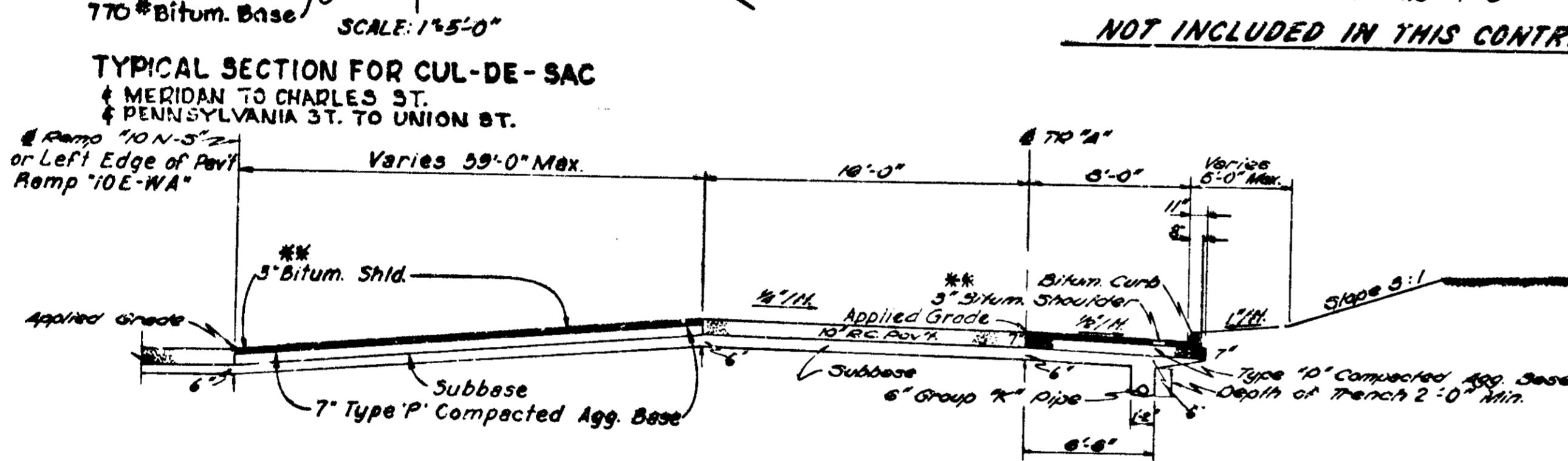
RECOMMENDED FOR APPROVAL  
6-30-77



PROJ. LINE	SHEET	FILE
I-70-3	77	3

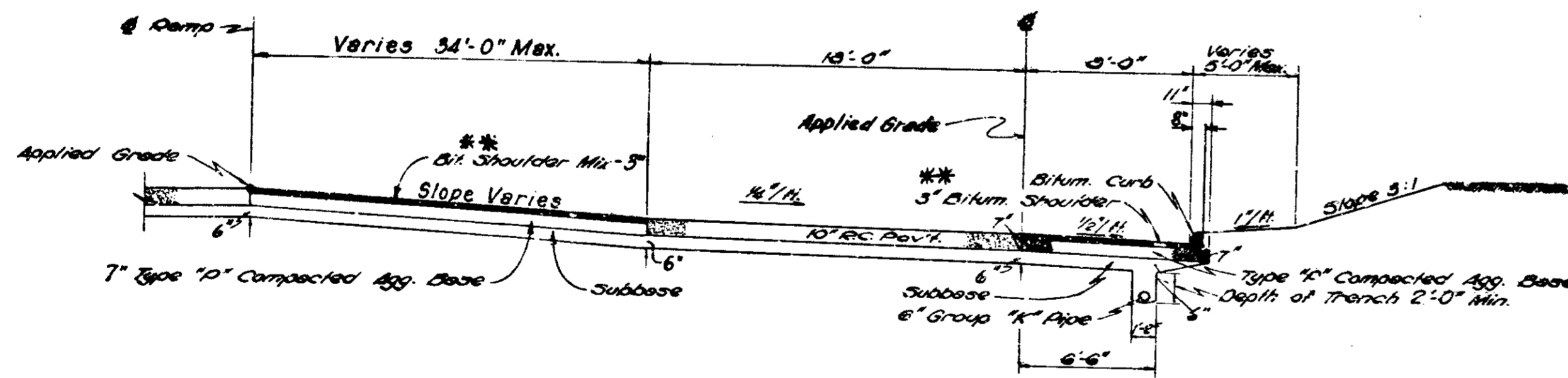


**FUTURE CITY EXPRESSWAY**  
 - Scale: 1/8" = 1'-0" -  
**NOT INCLUDED IN THIS CONTRACT**



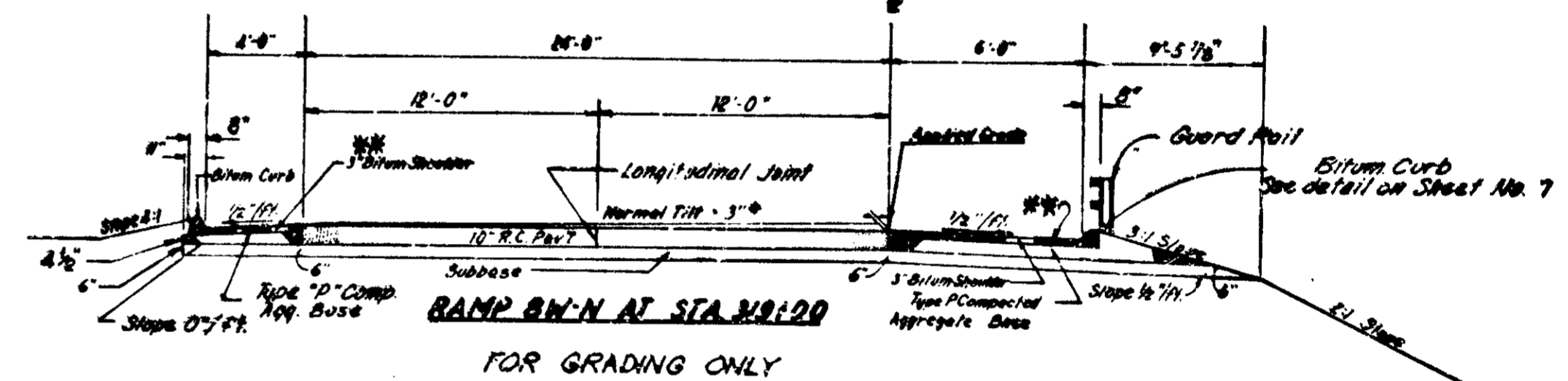
**TR "A"**  
 - Scale: 3/16" = 1'-0" -  
**NOT INCLUDED IN THIS PROJECT**

\*\* 3" Bituminous Base (Size #6) with Type I Seal Cover Aggregate Size 12

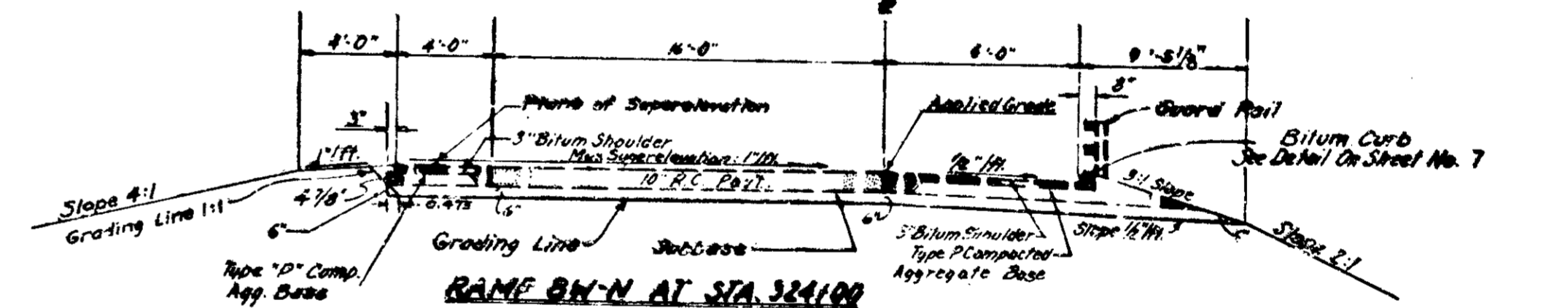


**TR "B"**  
**TR "C"**  
**TR "D"**  
 - Scale: 3/16" = 1'-0" -  
**NOT INCLUDED IN THIS PROJECT**

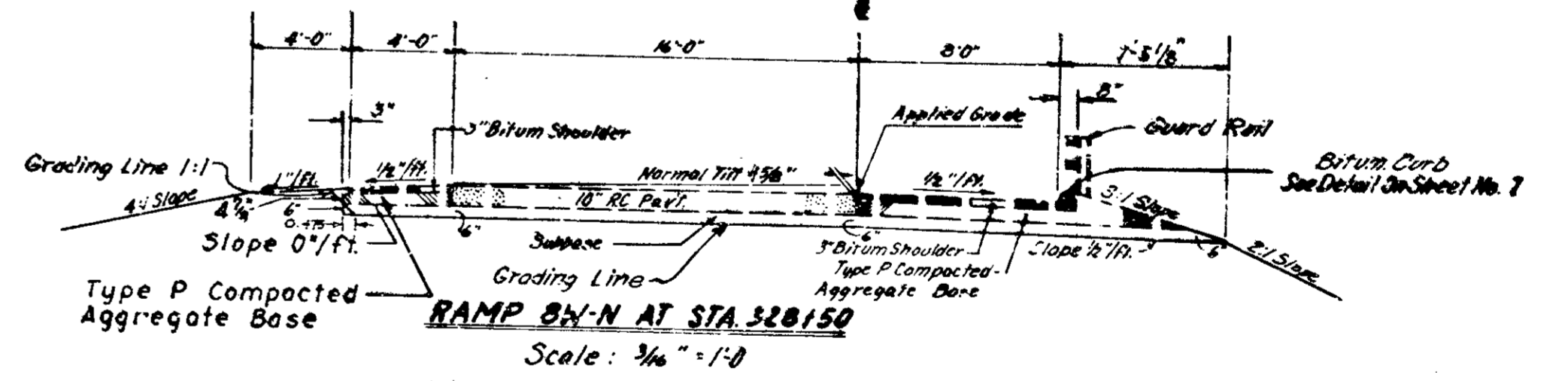
**BITUMINOUS PATCHING**  
 Not to Scale



FOR GRADING ONLY



FOR GRADING ONLY



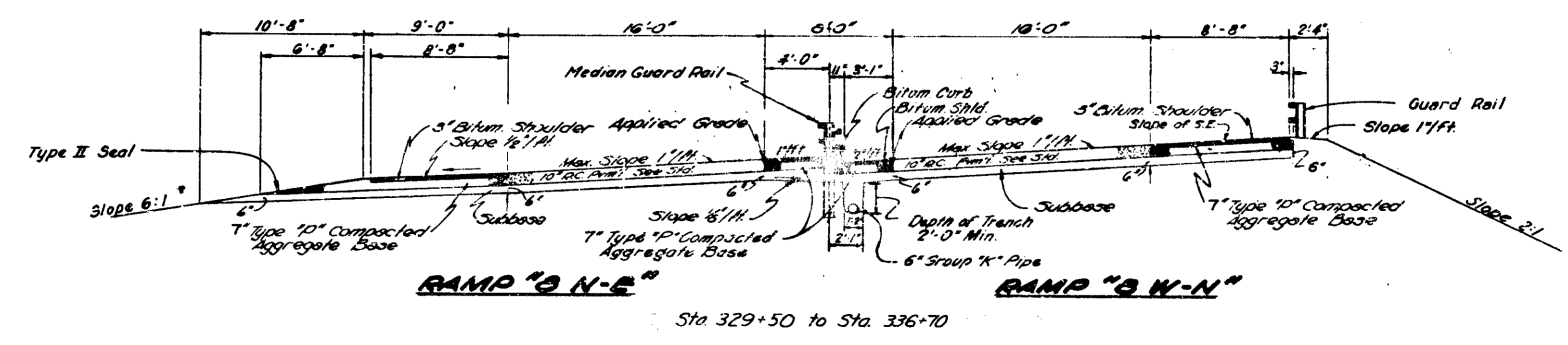
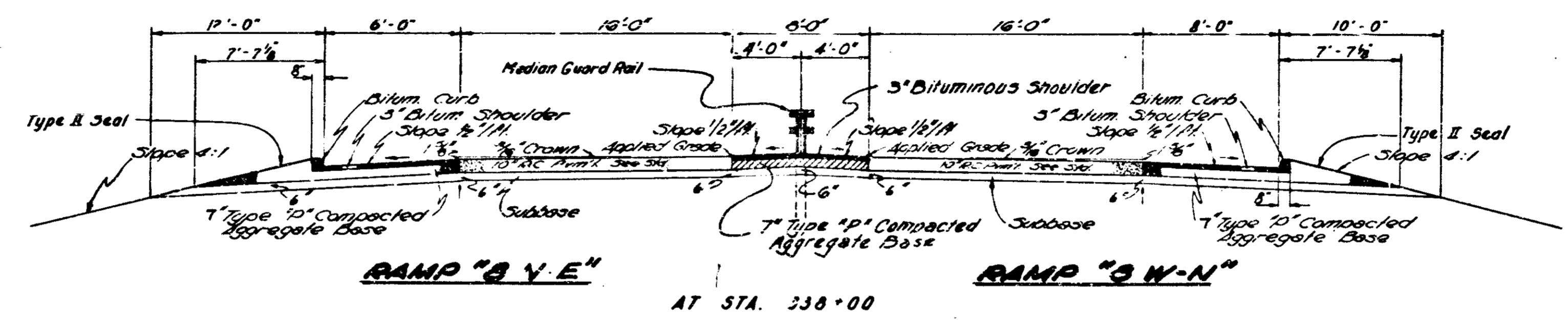
Scale: 1/8" = 1'-0"

- NOTE:  
 1. SEE GRADING PLAN FOR  
 A. Limits of Bituminous Curb  
 B. Variations in Slopes  
 2. All Slopes to be Shaded

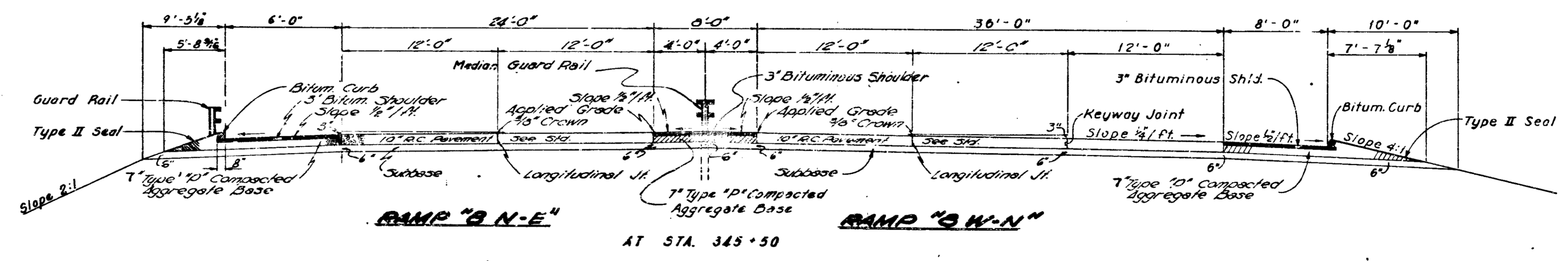
**RAMP 8W-N & TR 'A', 'B', 'C' & 'D'**  
**TYPICAL CROSS SECTIONS**

RECOMMENDED FOR APPROVAL  
 6-3587  
 ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION  
 AS NOTED  
 PROFESSIONAL ENGINEER

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-3(7)177	197	6	139



- NOTES:**
1. For Additional Pavement Details See Std. Sheet For Ramp Section Adopted
  2. For Details of Subsurface Drain See Misc. Std. Sheet 'N'.
  3. See Grading Plan for Limits of Bituminous Curb.



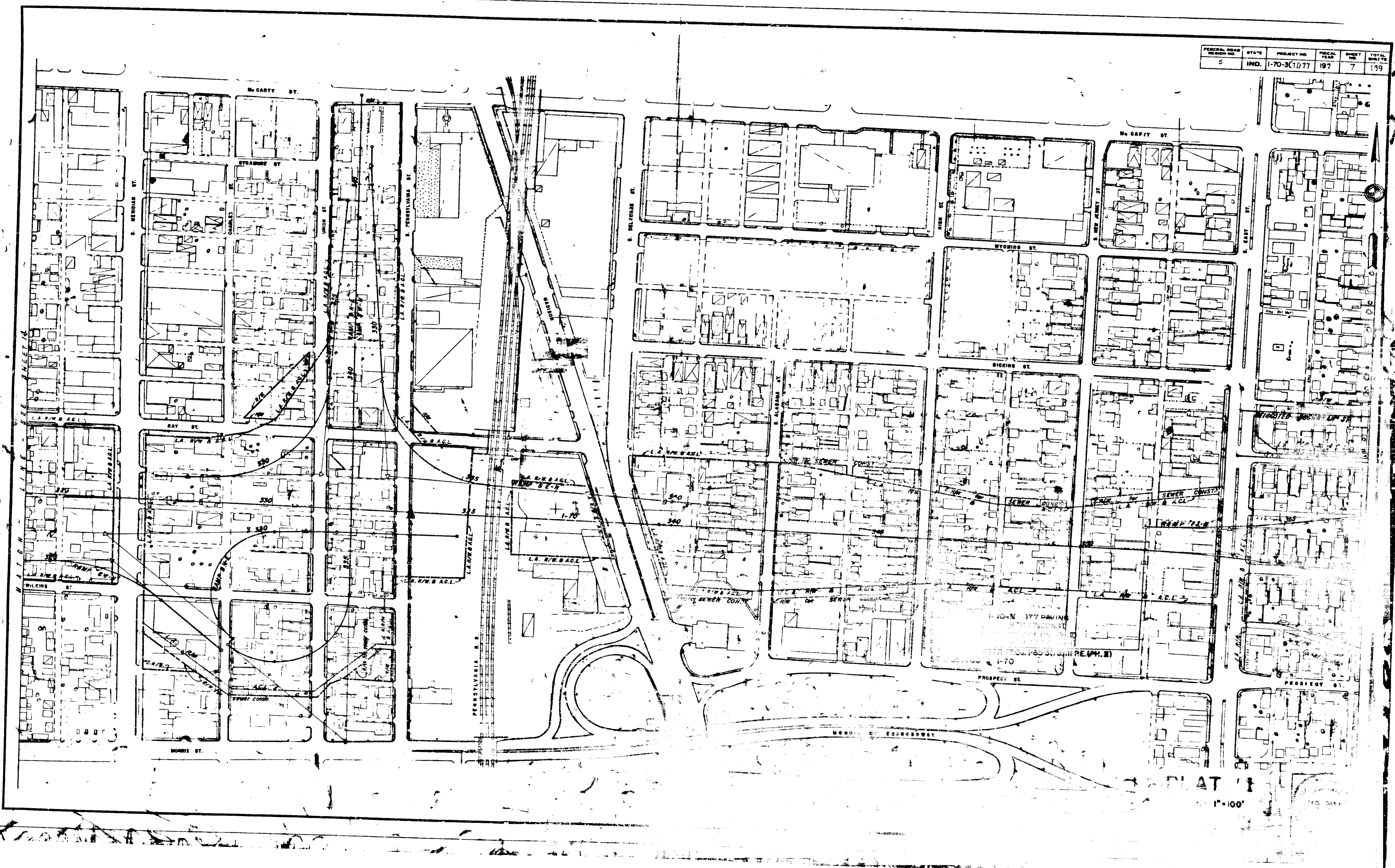
# RAMPS '8-E-N', '8-W-N', '8-NE', '8-NW'

## TYPICAL CROSS SECTIONS

SCALE - 3/16" = 1'-0"

RECOMMENDED FOR APPROVAL *12/20/41 [Signature]*  
 ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(1077)	197	7	139

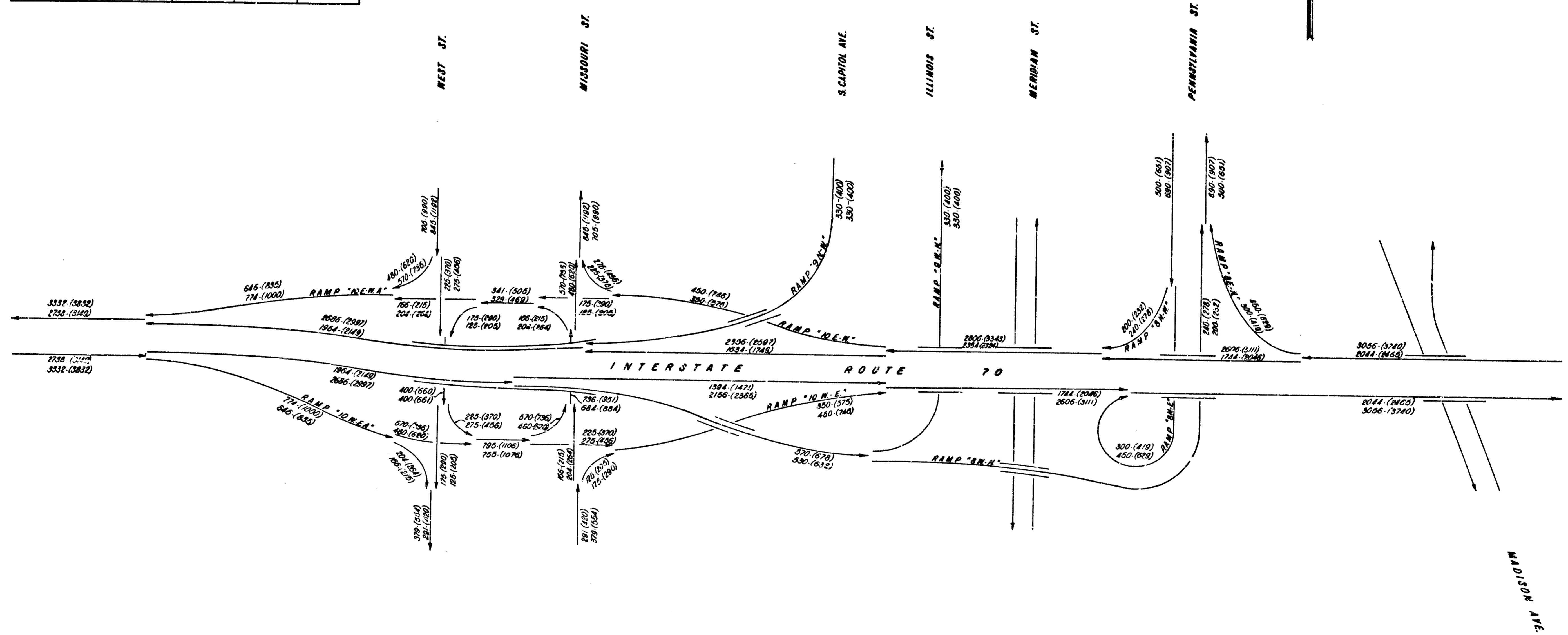


PLAT 11

1"=100'

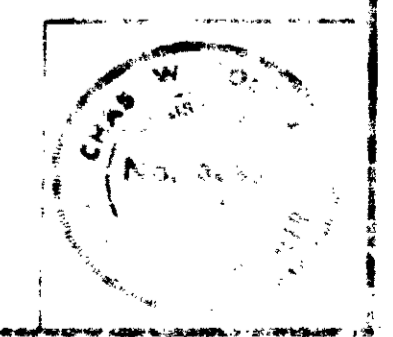
1970 1001

STREET	STREET TRAFFIC DATA			
	A.D.T.		H.V. (Peak)	
	1964	1987	1964	1987
WEST ST.	14,155	30,000	1,415	3,000
MISSOURI ST.	12,215	20,000	1,220	2,000
MADISON AVE.	37,300	50,000	3,670	5,000



**LEGEND**  
 000 - 1975 Traffic  
 (000) - 1987 Traffic  
 Upper number - A.M. Peak  
 Lower number - P.M. Peak

**TRAFFIC  
 DETAILS**



November 6, 1961

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3	197	10	99

CURVE DATA

8E-N-1	2W-N-1	8E-N-2	RAY ST-1	RAY ST-2
P1: 330+45.47	P1: 303+26.69	P1: 333+95.04	P1: 10+85.47	P1: 12+52.62
N: 821,051.91	N: 820,843.61	N: 821,000.28	N: 821,187.92	N: 821,426.50
E: 361,597.31	E: 361,079.90	E: 351,269.97	E: 351,767.82	E: 351,934.48
Δ: 2'00.00'	Δ: 2'00.00'	Δ: 7'40'07.36"	Δ: 59'21'00.00"	Δ: 33'02'40.00"
L: 147'20'37.64"	L: 191'00.00'	L: 206'88.00"	L: 38'11'50.00"	L: 42'07'44.44"
T: 75.02'	T: 252.26'	T: 206.88'	T: 85.47'	T: 40.34'
L: 411.33'	L: 411.33'	L: 358.34'	L: 155.38'	L: 8.44'
E: 96.51'	E: 96.51'	E: 66.69'	E: 22.34'	E: 5.86'
R: 284.79'	R: 281.41'	R: 286.48'	R: 150.00'	R: 136.00'

BEGIN CONSTRUCTION

BEGIN PROJECT I-70-3(72)77

CURVE DATA

8W-N-3	8W-N-4	8W-N-5	8N-E-1	8N-E-2
P1: 321+94.61	P1: 326+54.76	P1: 334+93.81	P1: 301+56.69	P1: 331+05.82
N: 820,824.27	N: 820,839.00	N: 820,374.96	N: 820,955.55	N: 820,966.24
E: 360,951.02	E: 361,421.00	E: 362,000.00	E: 361,404.32	E: 351,888.11
Δ: 3'52'19.12"	Δ: 4'20'32.28"	Δ: 130'15'38.81"	Δ: 137'11'25.12"	Δ: 3'00'00.00"
L: 77.47'	L: 147'00.00'	L: 31'49'51.56"	L: 35'48'35.55"	L: 2'00.00'
T: 54.88'	T: 157.33'	T: 388.32'	T: 409.22'	T: 75.02'
L: 54.88'	L: 390.41'	L: 409.23'	L: 383.39'	L: 150.00'
E: 1.51'	E: 23.20'	E: 248.31'	E: 279.39'	E: 0.98'
R: 2291.83'	R: 409.26'	R: 160.00'	R: 160.00'	R: 2864.79'

RETAINING WALL No. 5  
28 S.Y. Concrete Patching Req'd

RAY ST  
P1: 14+67.67  
N: 821,176.70  
E: 352,226.86  
Δ: 87'35'49.91"  
D: 52'05'13"  
L: 168.17'  
R: 42.40'  
R: 110.00'

STR. NO. 691 WM. RUBHY  
STR. NO. 692  
STR. NO. 693

STR. NO. 703  
STR. NO. 704  
STR. NO. 701  
STR. NO. 147  
STR. NO. 145

STR. NO. 141  
STR. NO. 142  
STR. NO. 144

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

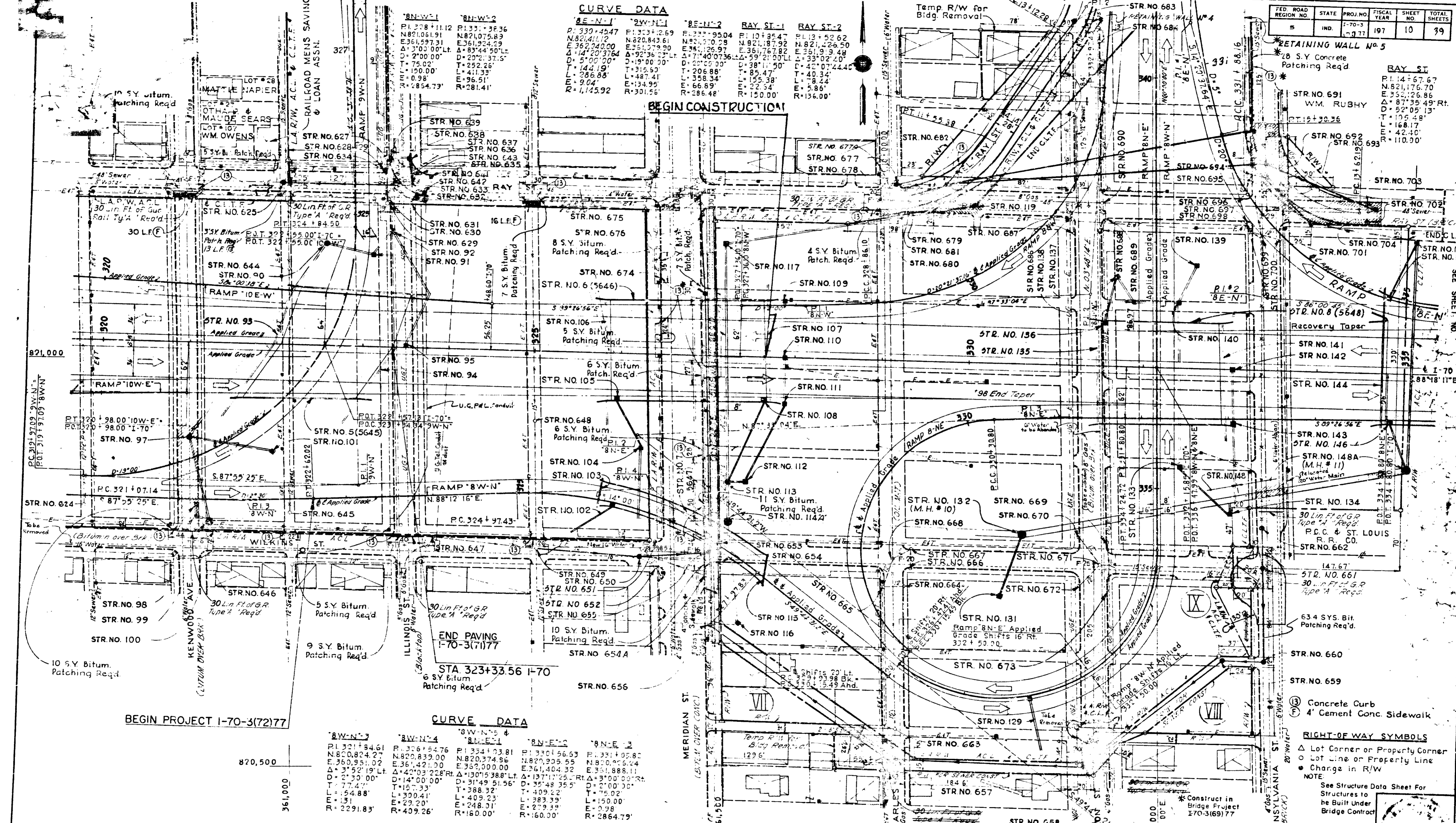
STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

STR. NO. 143  
STR. NO. 146  
STR. NO. 148A (M.H. # 11)  
STR. NO. 134

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STR. NO. 148A (M.H. # 11)  
STR. NO. 134



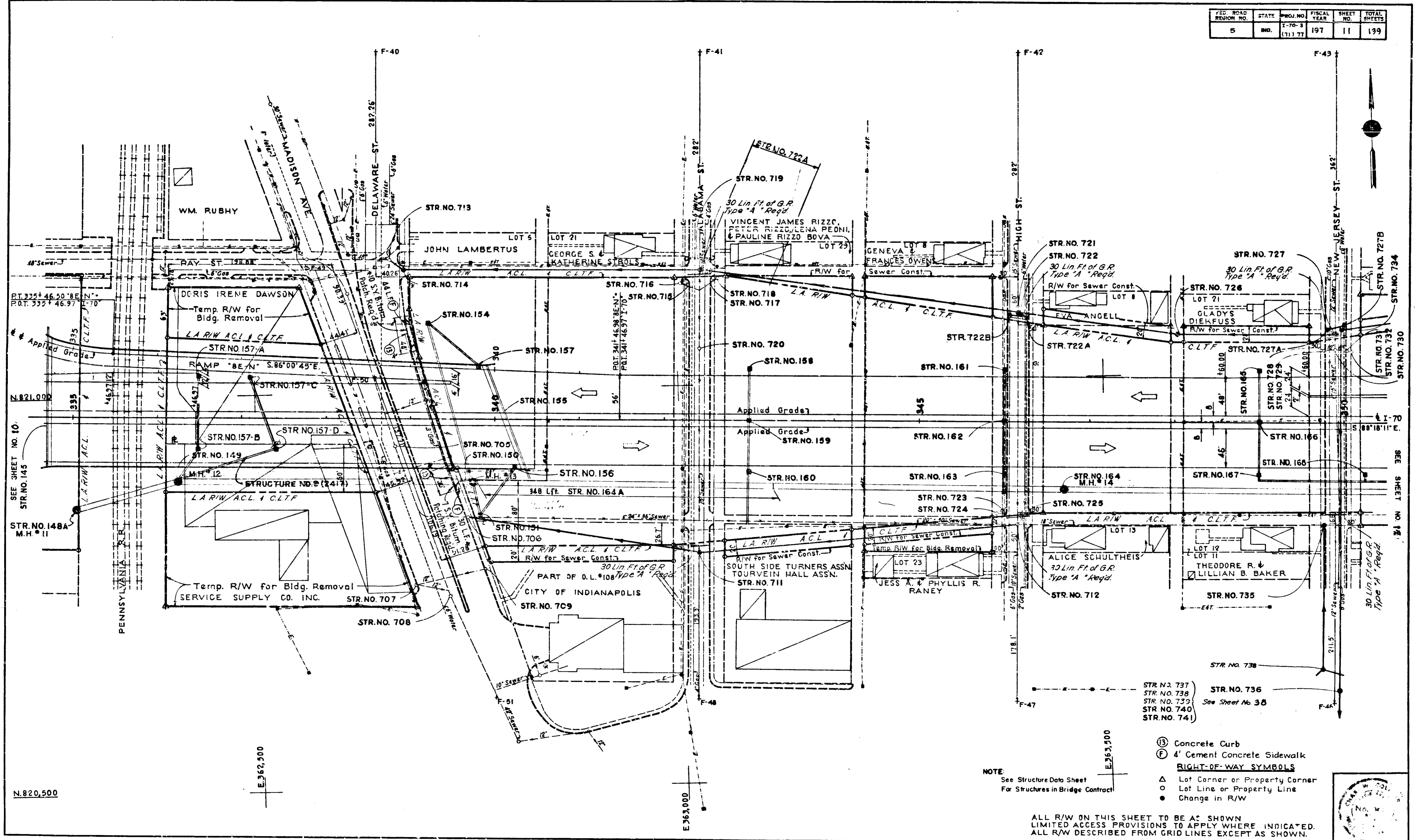
ALL R/W ON THIS SHEET TO BE AS SHOWN  
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED  
ALL R/W DESCRIBED FROM GRID LINES EXCEPT AS SHOWN.

Construct in Bridge  
Project I-70-3 (69) 77

PROJ. LINE	SHEET	FILE
I-70-3	10	6



FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (11) 71	197	11	139



SEE SHEET NO. 10  
STR. NO. 145

STR. NO. 148A  
M.H. # 11

N. 820,500

E. 362,500

E. 363,000

STR. NO. 737  
STR. NO. 738  
STR. NO. 739  
STR. NO. 740  
STR. NO. 741  
See Sheet No. 38

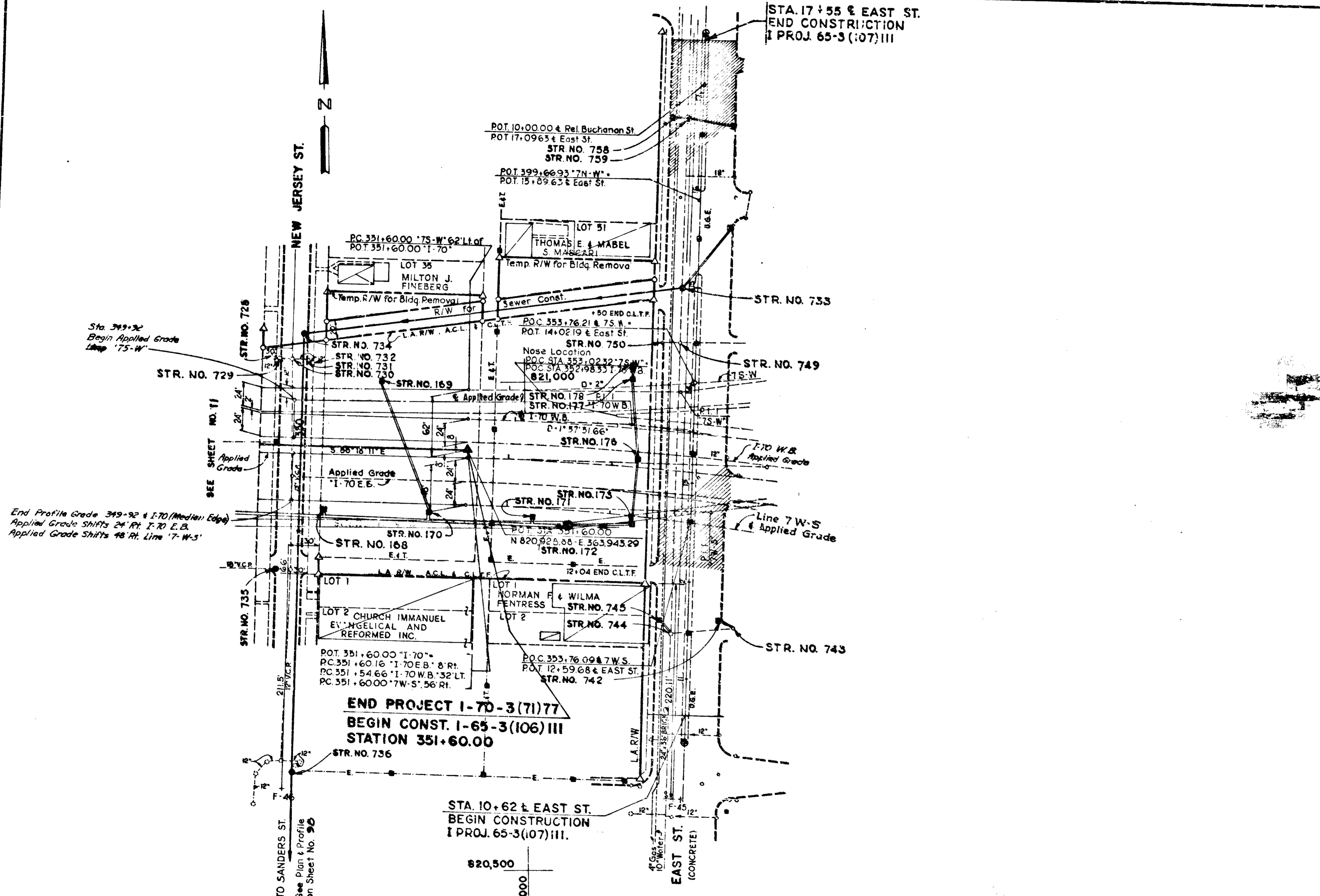
NOTE:  
See Structure Data Sheet  
For Structures in Bridge Contract

- Ⓢ Concrete Curb
  - Ⓣ 4' Cement Concrete Sidewalk
- RIGHT-OF-WAY SYMBOLS**
- △ Lot Corner or Property Corner
  - Lot Line or Property Line
  - Change in R/W

ALL R/W ON THIS SHEET TO BE AS SHOWN  
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.  
ALL R/W REQ'D FROM GRID LINES EXCEPT AS SHOWN.

PROJ. LINE	SHEET	FILE
I-70-3	11	71

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	IND.	I-70-3 (71) 77	197	12	199



Sta. 349+32  
Begin Applied Grade  
Line "75-W"

End Profile Grade 349+92 & I-70 (Median Edge)  
Applied Grade Shifts 24' Rt. I-70 E.B.  
Applied Grade Shifts 48' Rt. Line "7-W-5"

SEE SHEET NO. 11  
Applied Grade

TO SANDERS ST.  
See Plan & Profile  
on Sheet No. 90

**END PROJECT I-70-3(71)77**  
**BEGIN CONST. I-65-3(106)III**  
**STATION 351+60.00**

**STA. 10+62 & EAST ST.**  
**BEGIN CONSTRUCTION**  
**I PROJ. 65-3(107)III.**

**STA. 17+55 & EAST ST.**  
**END CONSTRUCTION**  
**I PROJ. 65-3(107)III**

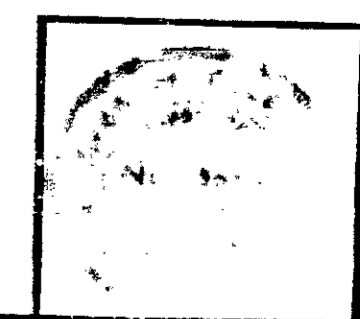
**CURVE DATA**

"7S-W-1"	"I-70 W.B.-1"	"I-70 E.B.-1"	"7W-S-1"
PI 353.6460	PI 353.1387	PI 354.4960	PI 353.9667
N 820.98688	N 820.95614	N 820.91231	N 820.86539
E 364.14972	E 364.10537	E 364.23236	E 364.17819
Δ= 8°10'12" Lt.	Δ= 6°14'55" Rt.	Δ= 11°32'18.5" Rt.	Δ= 13°55'32" Rt.
D= 2°00'00"	D= 1°57'51.66"	D= 2°00'00"	D= 2°51'23.8"
T= 204.60'	T= 159.21'	T= 285.44'	T= 236.67'
L= 408.50'	L= 318.10'	L= 576.92'	L= 471.00'
E= 7.30'	E= 4.34'	E= 14.56'	E= 14.40'
R= 2,864.79'	R= 2,916.78'	R= 2,564.79'	R= 1,937.39'

**RIGHT-OF-WAY SYMBOLS**  
 Δ Lot Corner or Property Corner  
 ○ Lot Line or Property Line  
 ● Change in R/W

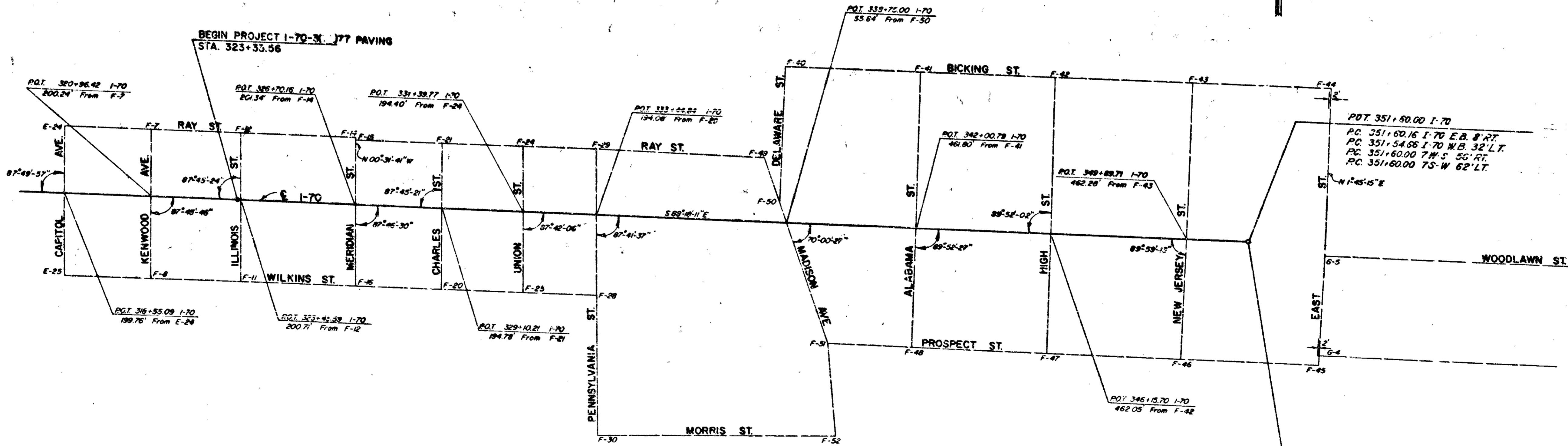
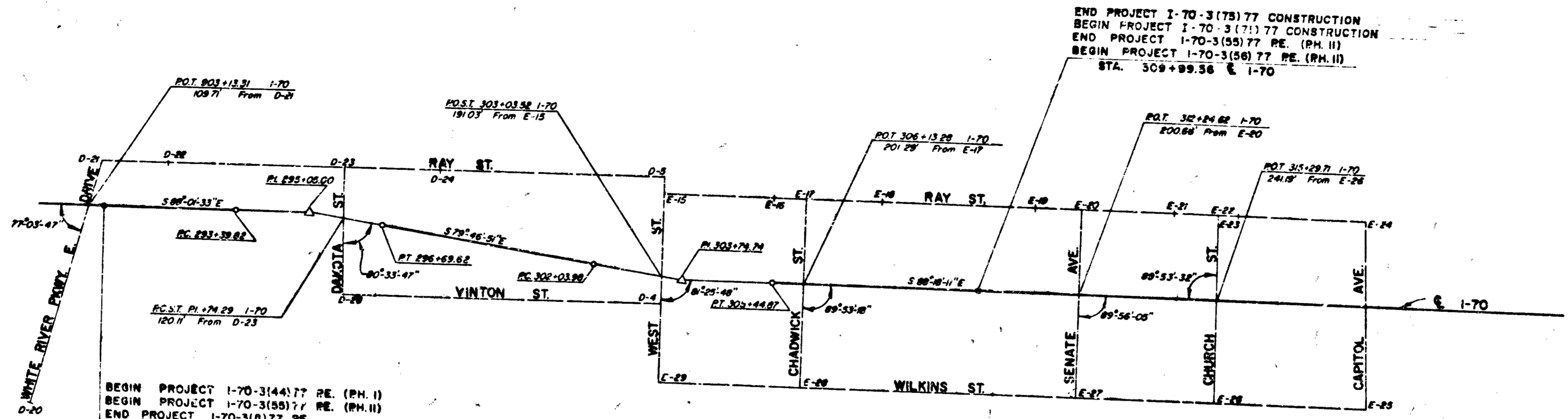
**NOTE:**  
See Structure Data For  
Structures in bridge Contract

ALL R/W ON THIS SHEET TO BE AS SHOWN.  
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.  
ALL R/W DESCRIBED FROM GRID LINES EXCEPT AS SHOWN.



PROJ.	LINE	SHEET	FILE
I-70-3(71)77	12	12	199

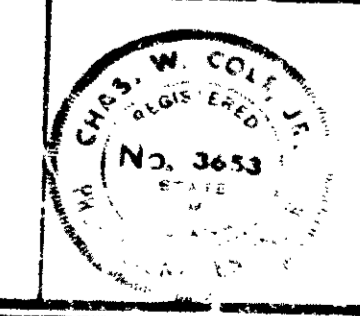
FEDERAL ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(7)77	192	9	199



END PROJECT 1-70-3(77) PAVING  
 END PROJECT 1-70-3(71)77 CONSTRUCTION  
 END PROJECT 1-70-3(44)77 PE. (PHASE II)  
 END PROJECT 1-70-3(44)77 PE. (PHASE I)  
 LIMIT OF CONSTR. PROJ. 1-65-3(78) III PE. (PHASE II)  
 STA. 351+60.00 & I-70

# HORIZONTAL ALIGNMENT DETAILS

SCALE: 1" = 150'

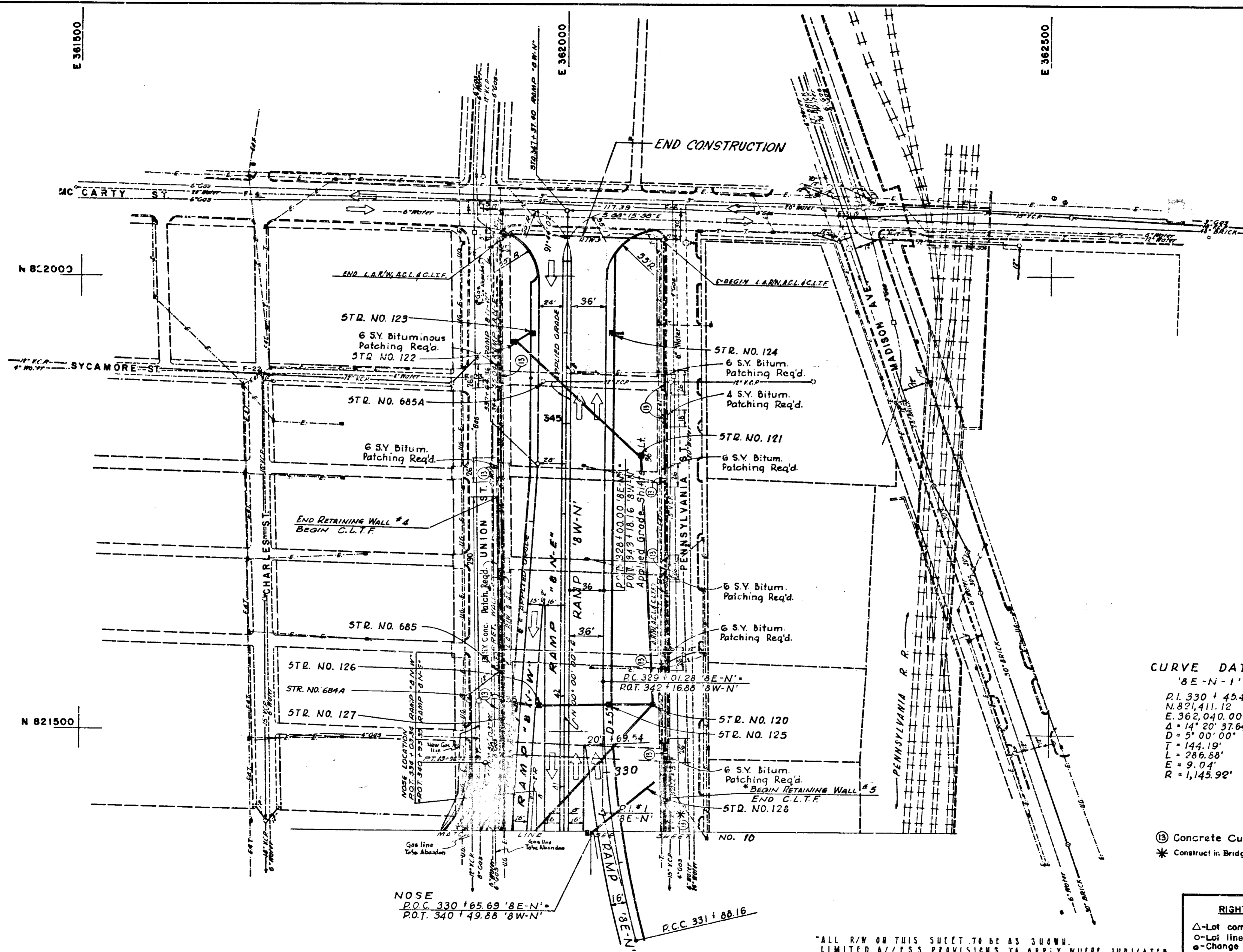


FOR TRAVERSE POINT TIES SEE SHEET NO'S. 51 & 52

November 6, 1964

PROJECT NO.	SHEET NO.	TOTAL SHEETS
1-70-3(7)77	9	199

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 4711.77	197	13	199



**CURVE DATA**  
 '8E-N-1'  
 P.I. 330 + 45.47  
 N. 821,411.12  
 E. 362,040.00  
 $\Delta = 14^{\circ} 20' 37.64''$  Lt.  
 D = 5' 00' 00"  
 T = 144.19'  
 L = 286.68'  
 E = 9.04'  
 R = 1,145.92'

ⓑ Concrete Curb  
 \* Construct in Bridge Contract I-70-3(69)77

**RIGHT-OF-WAY SYMBOLS**  
 Δ - Lot corner or Property corner  
 ○ - Lot line or Property line  
 ⊕ - Change in R/W

"ALL R/W ON THIS SHEET TO BE AS SHOWN.  
 LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.  
 ALL R/W DESCRIBED FROM GRID LINES... EXCEPT AS SHOWN."

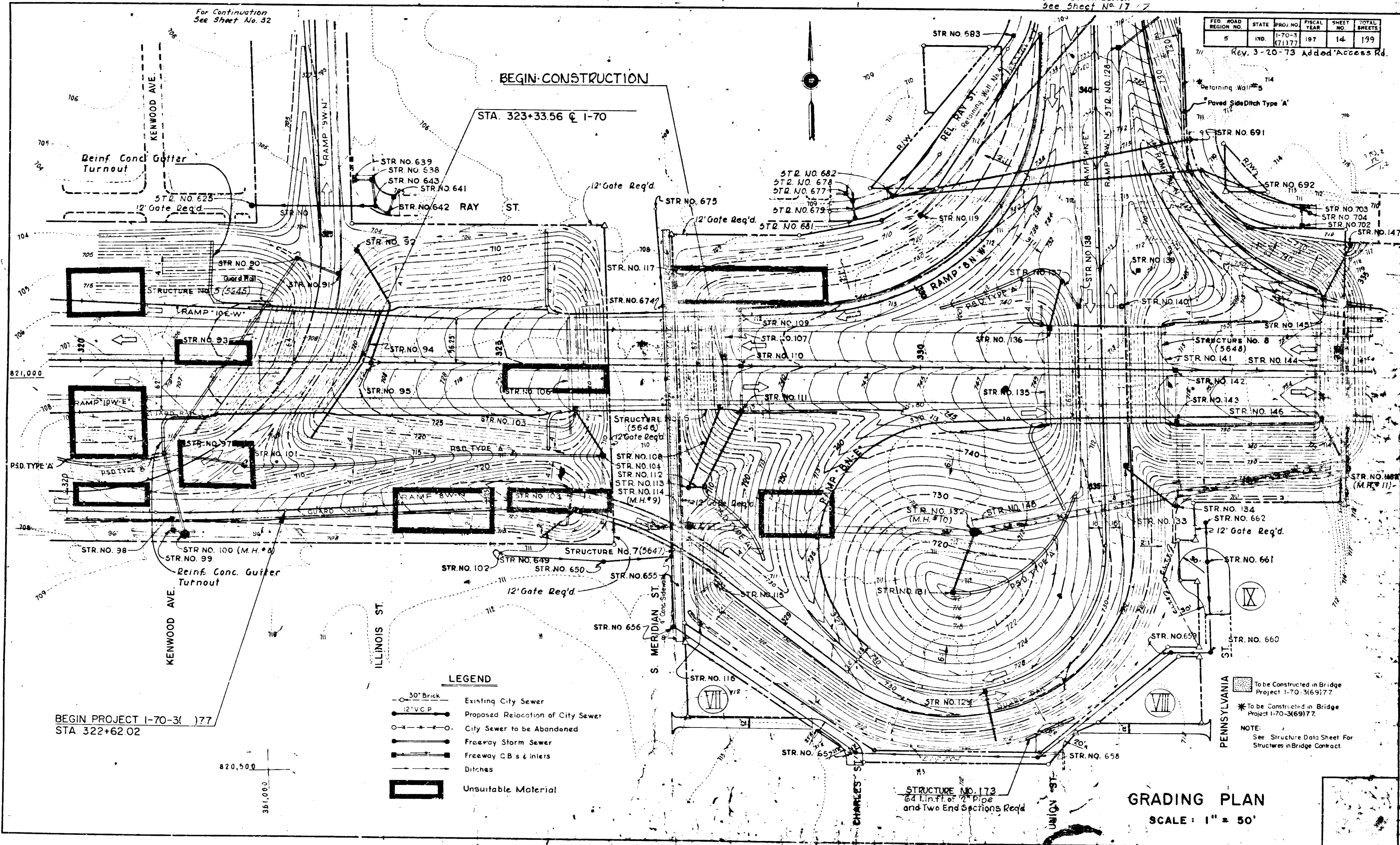
PROJ.	LINE	SHEET	FILE
I-70-3	13	13	199

For Continuation  
See Sheet No. 32

For Continuation  
See Sheet No. 17

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71177)	197	14	199

Rev. 3-20-73 Added Access Rd.



BEGIN CONSTRUCTION

STA. 323+33.56 @ I-70

Reinf. Conc. Gutter Turnout

12' Gate Req'd.

12' Gate Req'd.

12' Gate Req'd.

RAMP 10'E-W

RAMP 10'E-W

RAMP 8'W-N

RAMP 8'W-N

RAMP 8'W-N

RAMP 8'W-N

RAMP 8'W-N

Reinf. Conc. Gutter Turnout

12' Gate Req'd.

12' Gate Req'd.

BEGIN PROJECT I-70-3(177)  
STA. 322+62.02

820,500

361,000

LEGEND

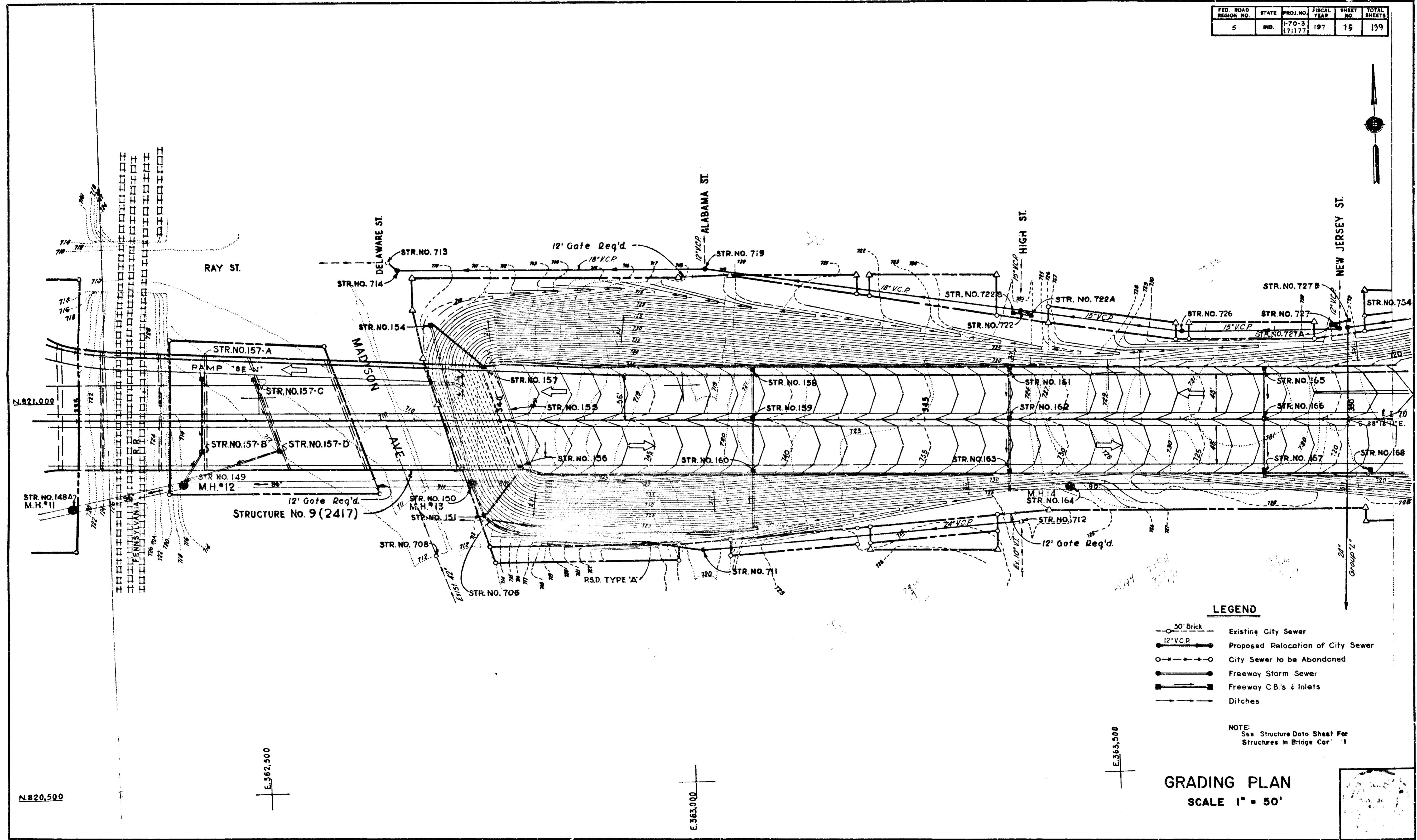
- 30" Brick Existing City Sewer
- 12" V.C.P. Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.s & Inlets
- Ditches
- Unsuitable Material

PENNSYLVANIA  
To be Constructed in Bridge Project I-70-3(69)77  
\* To be Constructed in Bridge Project I-70-3(69)77  
NOTE: See Structure Data Sheet For Structures in Bridge Contract.

GRADING PLAN  
SCALE: 1" = 50'

PROJ. LINE	SHEET	FILE
I-70-3(177)	14	

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71)77	197	15	199

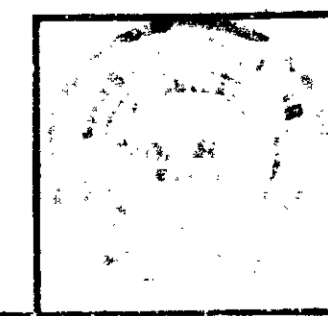


**LEGEND**

- 30" Brick Existing City Sewer
- 12" V.C.P. Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.'s & Inlets
- — — Ditches

NOTE:  
See Structure Data Sheet For  
Structures in Bridge Cor' 1

**GRADING PLAN**  
SCALE 1" = 50'



PROJ.	LINE	SHEET	PAGE
I-70-3(71)77	2	15	199

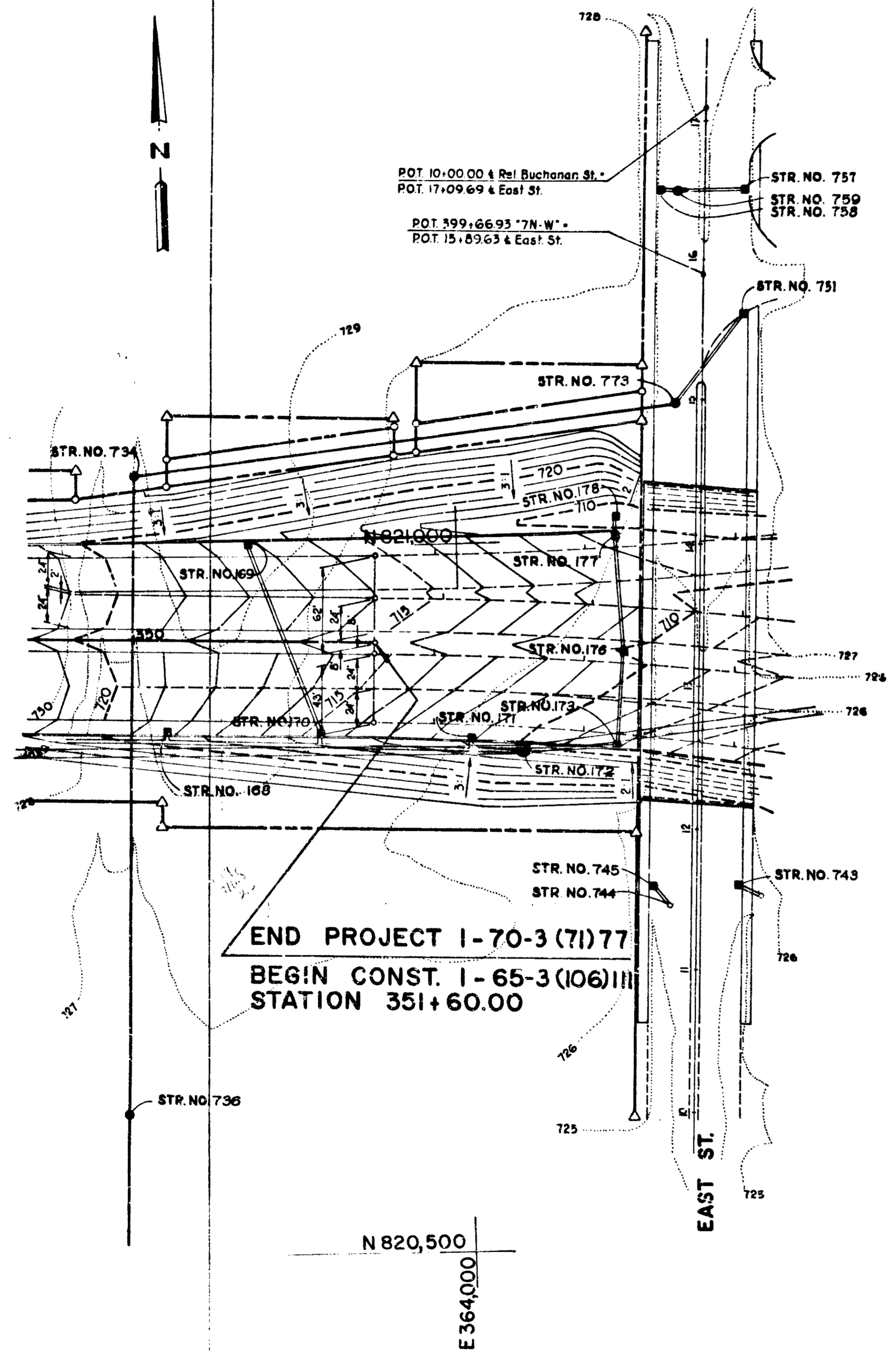
N.820,500

E.362,500

E.363,000

E.363,500

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (7)77	197	16	199

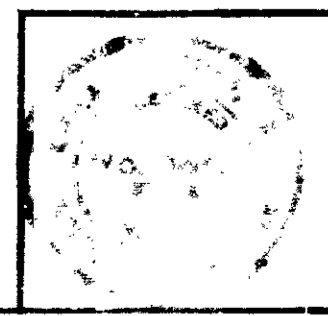


**LEGEND**

- 30" Brick — Existing City Sewer
- 12" V.C.P. — Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.'s & Inlets
- Ditches

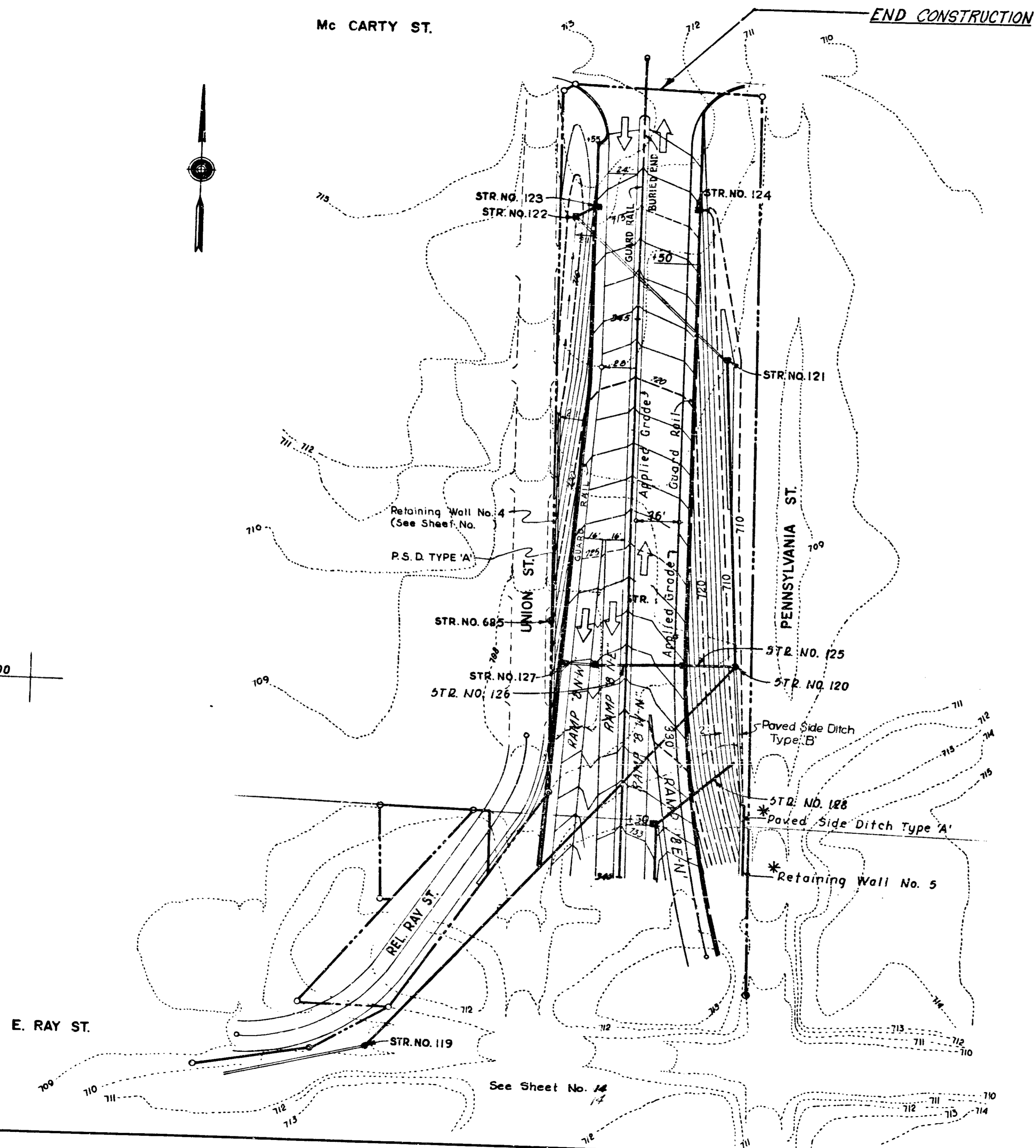
NOTE:  
See Structure Data Sheet For Structures in Bridge Contract.

**GRADING PLAN**  
SCALE 1" = 50'



PROJ.	LINE	SHEET	FILE
1-70-3 (7)77		16	

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71) 77	197	17	139

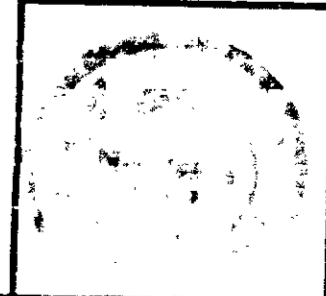


**LEGEND**

- 30" Brick — Existing City Sewer
- 12" V.C.R. — Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.'s & Inlets
- — — Ditches

NOTE:  
 See Structure Data Sheet For Structures in Bridge Contract.  
 \* To Be Constructed in Bridge Project I-70-3(69)77

**GRADING PLAN**  
 SCALE: 1" = 50'



PROJ.	LINE	SHEET	FILE
I-70-3(69)77		17	



Re: I-65-71 Ref. Notes Omitted.

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (2A)	197	17A	

Contract No. R-9201  
Revision No. 1  
January 30, 1973

SEE SHEET NO. 81C

FOR X-SECTIONS  
300' LT.

END PROJECT I-70-3  
BEGIN CONST. I-65-3  
STATION 351+60.00

I-70-3(75)  
R-9254

FOR X-SECTIONS  
300' RT.  
PROSPECT ST.

**LEGEND**

- 30" Brick Existing City Sewer
- 12" V.C.P. Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.s & Inlets
- Ditches

**GRADING PLAN**

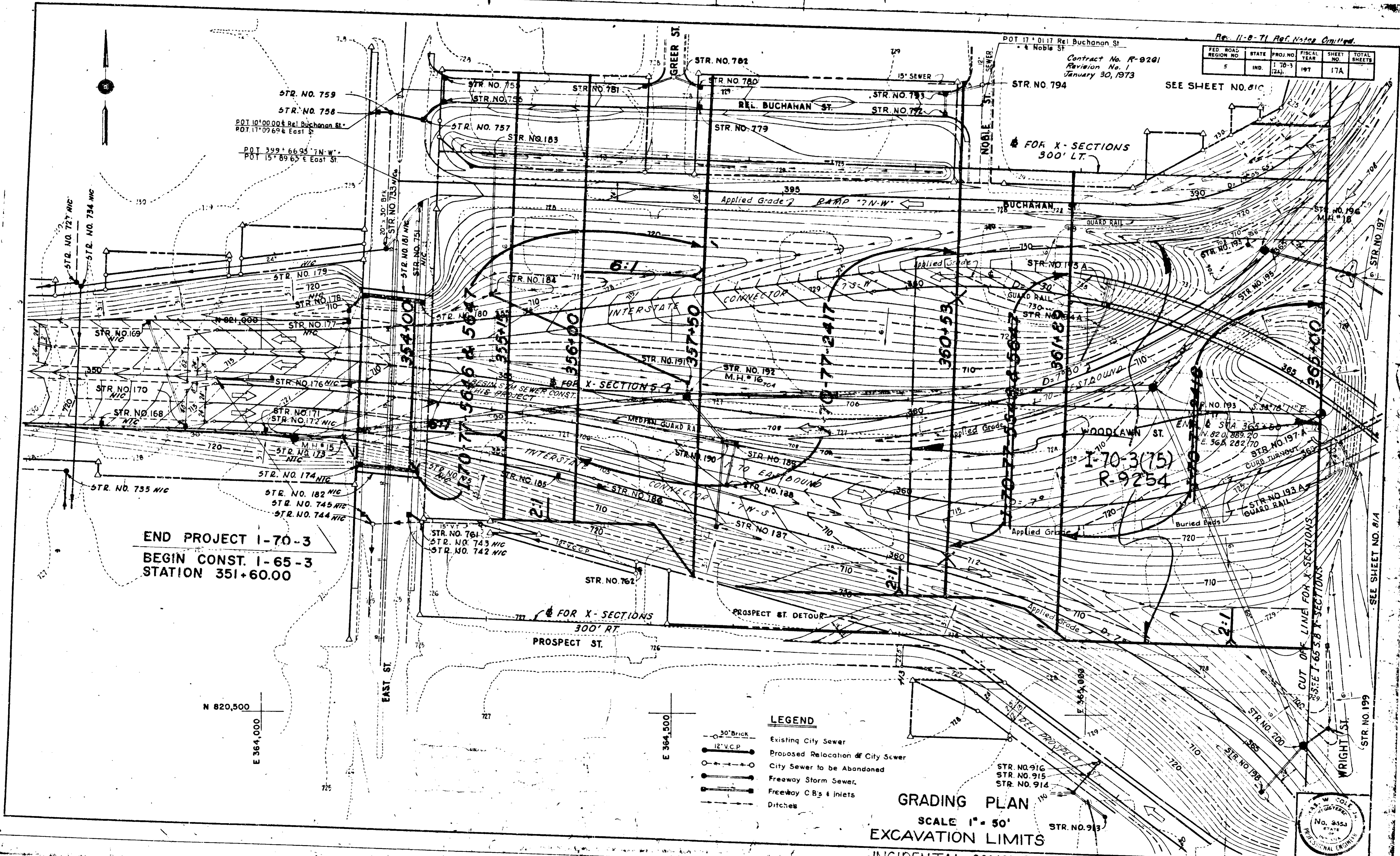
SCALE 1" = 50'  
EXCAVATION LIMITS

INCIDENTAL CONSTRUCTION



6 MAY 1971

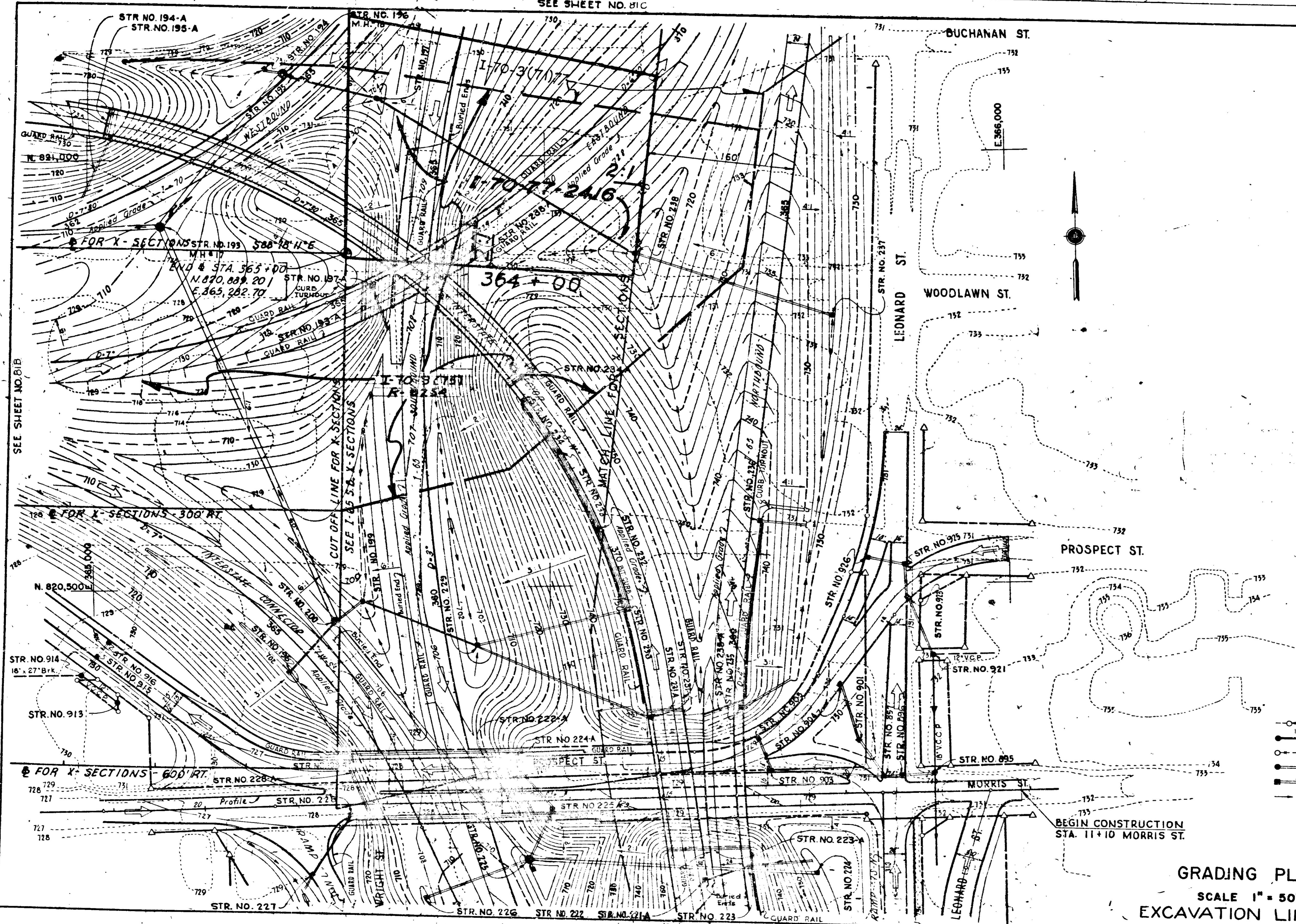
PROJ.	LINE	SHEET	FILE
I-70-3	2A	17A	



SEE SHEET NO. 81C

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (11)	197	17B	

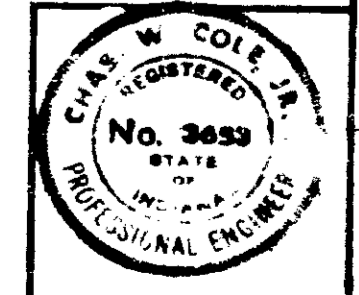
Rev 8-11-71 Ref. Note Omitted.  
 Contract No. R-9261  
 Revision No. 1  
 January 30, 1973



LEGEND

- 30" Brick Existing City Sewer
- 12" V.C.P. Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.'s + Inlets
- Ditches

GRADING PLAN  
 SCALE 1" = 50'  
 EXCAVATION LIMITS



INCIDENTAL CONSTRUCTION 1/2 Scale 4/11/71

PROJ.	L.W.E.	SHEET	FILE
I-70-3	17B	17B	

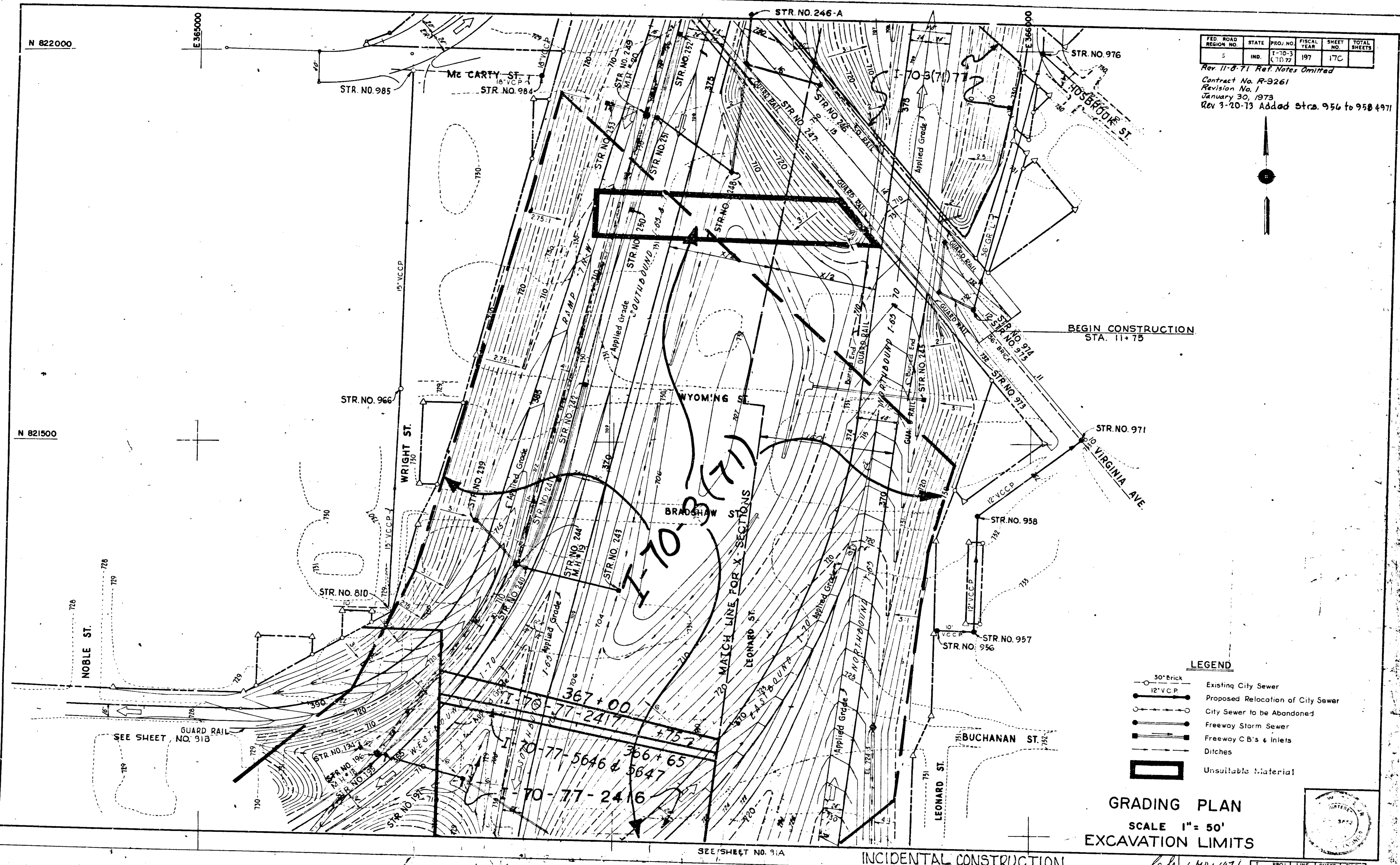
N 822000

E 365000

N 821500

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (10) 77	197	17C	

Rev. 11-8-71 Ref. Notes Omitted  
 Contract No. R-3261  
 Revision No. 1  
 January 30, 1973  
 Rev 3-20-73 Added Strs. 956 to 958 & 971



BEGIN CONSTRUCTION STA. 11+75

I-70-3(71)

MATCH LINE FOR X-SECTIONS

LEGEND

- 30" Brick
- 12" V.C.P.
- Existing City Sewer
- Proposed Relocation of City Sewer
- City Sewer to be Abandoned
- Freeway Storm Sewer
- Freeway C.B.'s & Inlets
- Ditches
- Unsuitable Material

GRADING PLAN  
 SCALE 1" = 50'  
 EXCAVATION LIMITS



SEE SHEET NO. 31A

INCIDENTAL CONSTRUCTION

4/11/1977  
 PROJECT LINE SHEET FILE  
 70-3(71) 17C

N. 823000

E. 365000

SEE SHEET NO. 88

Rev 11-8-71 Sheet Ref Completed

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (1)	197	170	

STR. NO. 1027  
 STR. NO. 1025  
 Contract No. R-9261  
 Revision No. 1  
 January 30, 1973

N. 822500

N. 822000

Mc CARTY ST.

END CONSTRUCTION  
 STA. 20 + 78.42

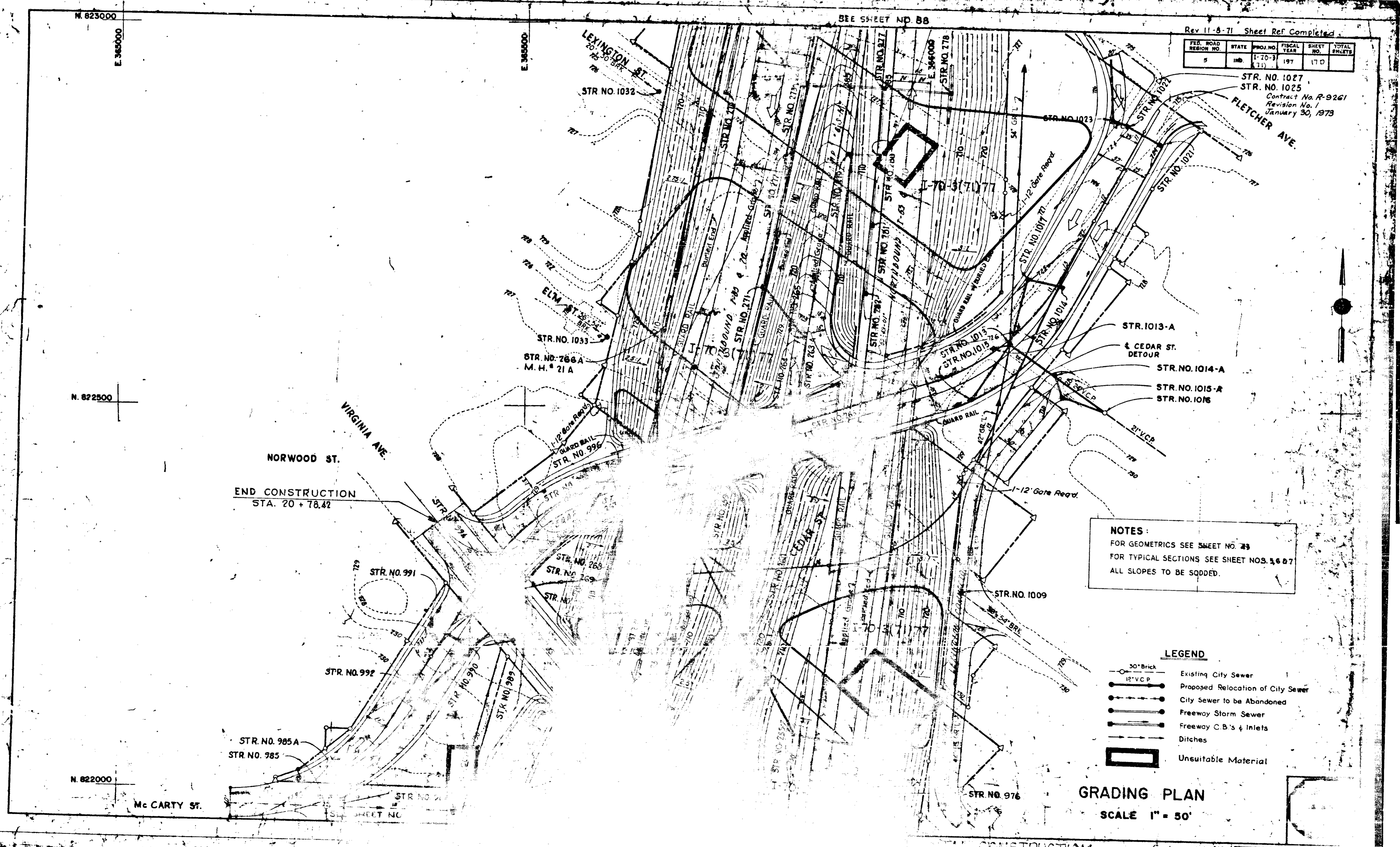
**NOTES:**  
 FOR GEOMETRICS SEE SHEET NO. 79  
 FOR TYPICAL SECTIONS SEE SHEET NOS. 56 & 7  
 ALL SLOPES TO BE SODDED.

- LEGEND**
- 30" Brick Existing City Sewer
  - 12" V.C.P. Proposed Relocation of City Sewer
  - City Sewer to be Abandoned
  - Freeway Storm Sewer
  - Freeway C.B.'s & Inlets
  - Ditches
  - Unsuitable Material

**GRADING PLAN**  
 SCALE 1" = 50'

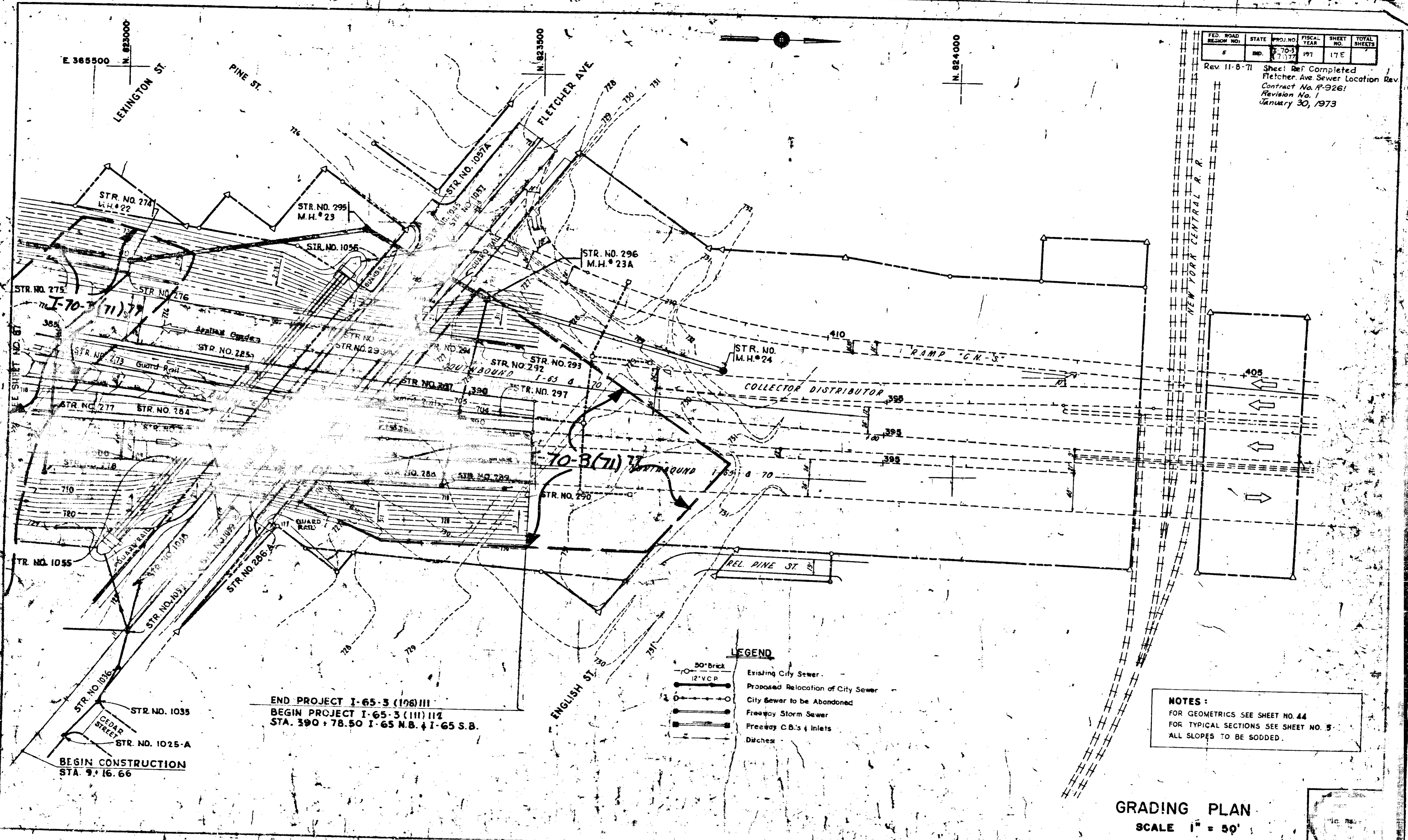
CONSTRUCTION

Scale 1" = 50' / 1973  
 PROJECT LINE SHEET



FED. ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-65-3 (111) 112	197	17E	

Rev. 11-8-71 Sheet Ref Completed Fletcher Ave Sewer Location Rev. Contract No. P-926! Revision No. 1 January 30, 1973



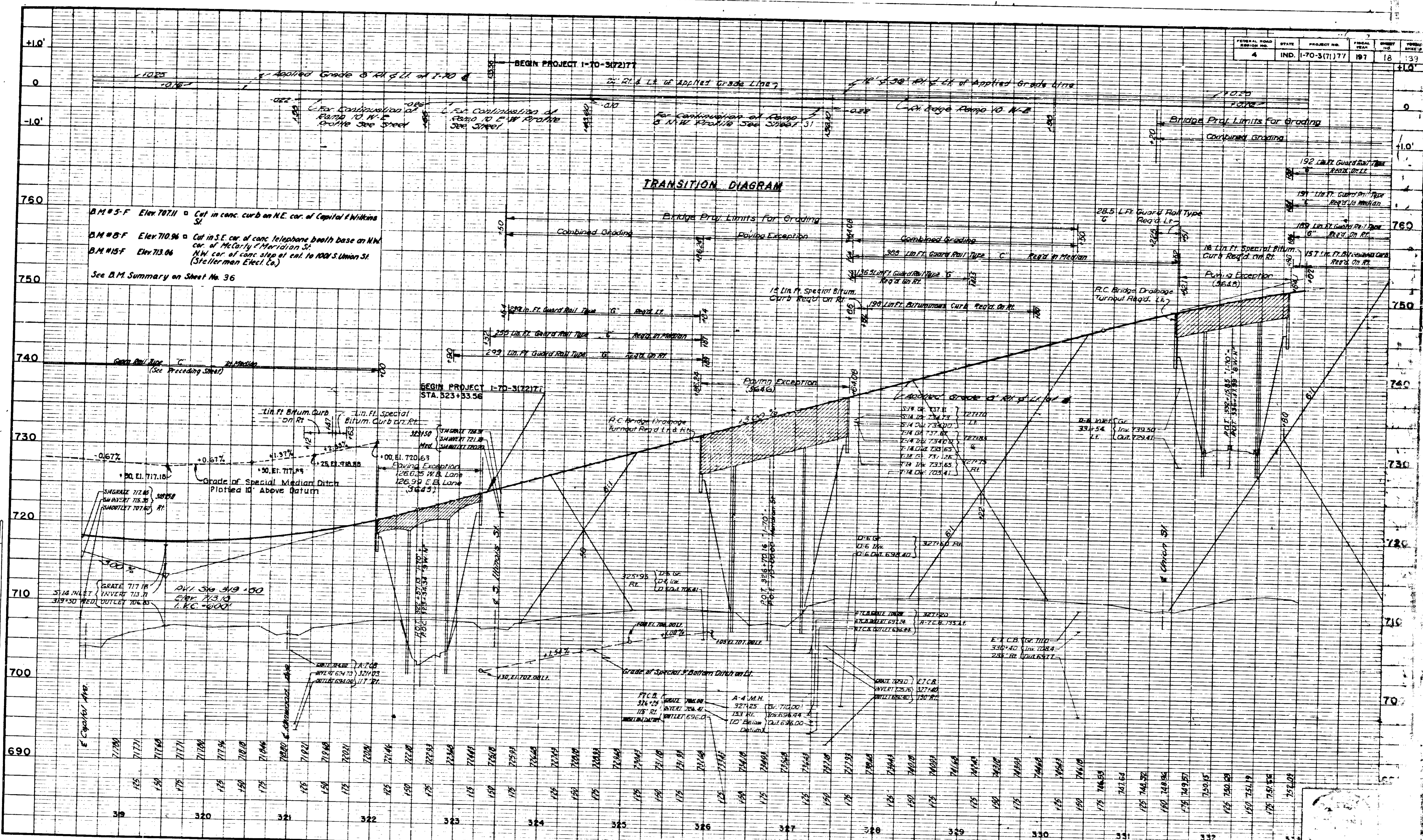
END PROJECT I-65-3 (106) III  
 BEGIN PROJECT I-65-3 (111) 112  
 STA. 390 + 78.50 I-65 N.B. & I-65 S.B.

BEGIN CONSTRUCTION  
 STA. 9 + 16.66

- LEGEND**
- Existing City Sewer
  - Proposed Relocation of City Sewer
  - City Sewer to be Abandoned
  - Freeway Storm Sewer
  - Freeway C.B.'s & Inlets
  - — — Ditches

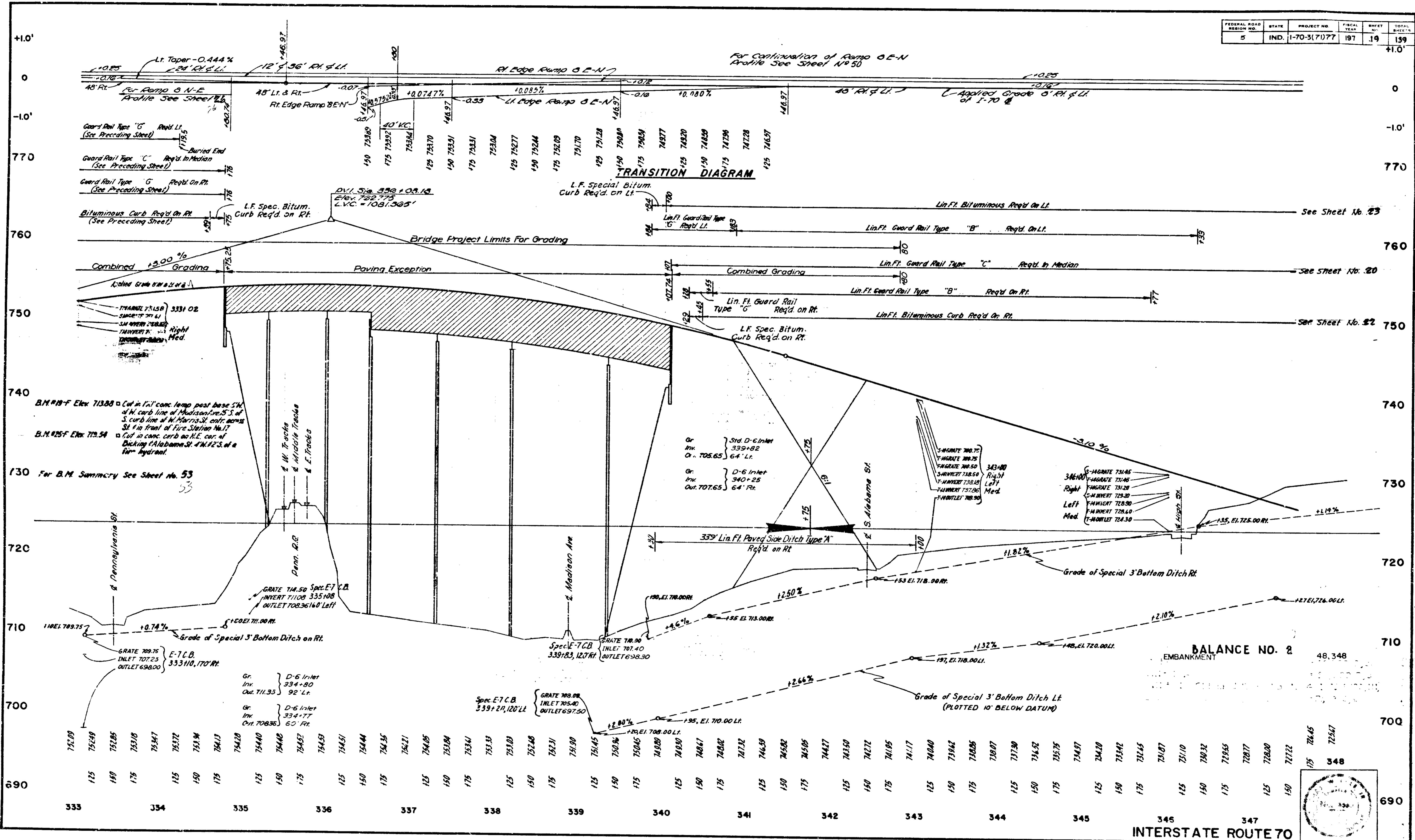
**NOTES:**  
 FOR GEOMETRICS SEE SHEET NO. 44  
 FOR TYPICAL SECTIONS SEE SHEET NO. 5  
 ALL SLOPES TO BE SODDED.

**GRADING PLAN**  
 SCALE 1" = 50'



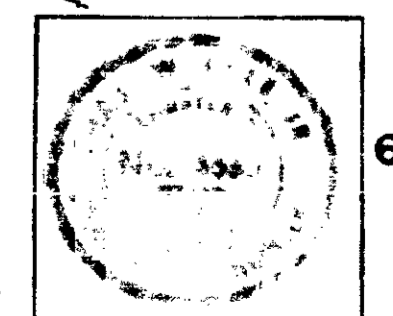
NOTE BOOK GRASSES CHECKED  
 S. W. S. NOTED  
 STRUCTURE NOTATIONS CHECKED  
 NO.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(7)77	197	19	139



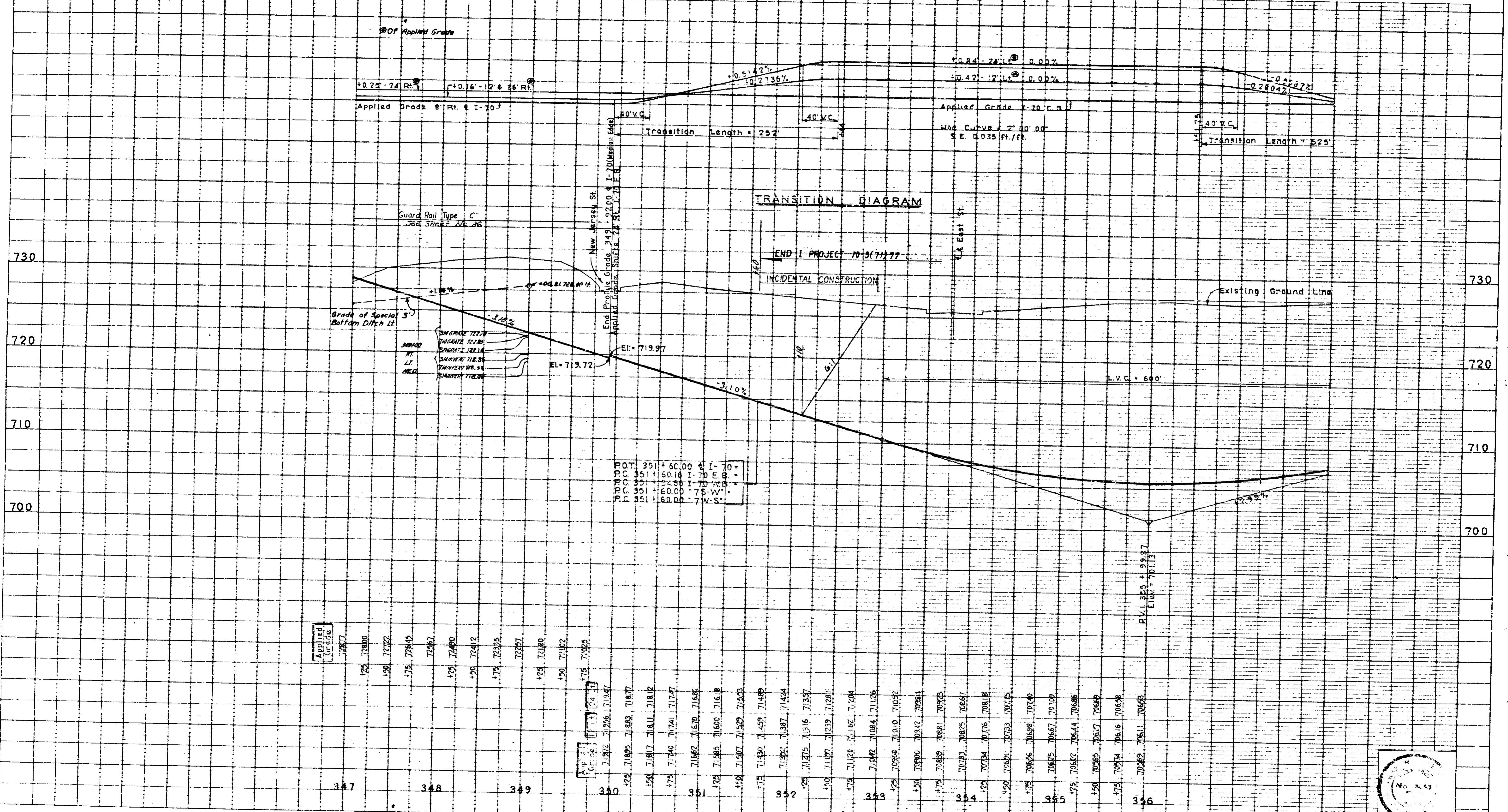
DATE	BY	REVISION

BALANCE NO. 2  
EMBANKMENT 48,348



INTERSTATE ROUTE 70

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3(7)77		19	139	

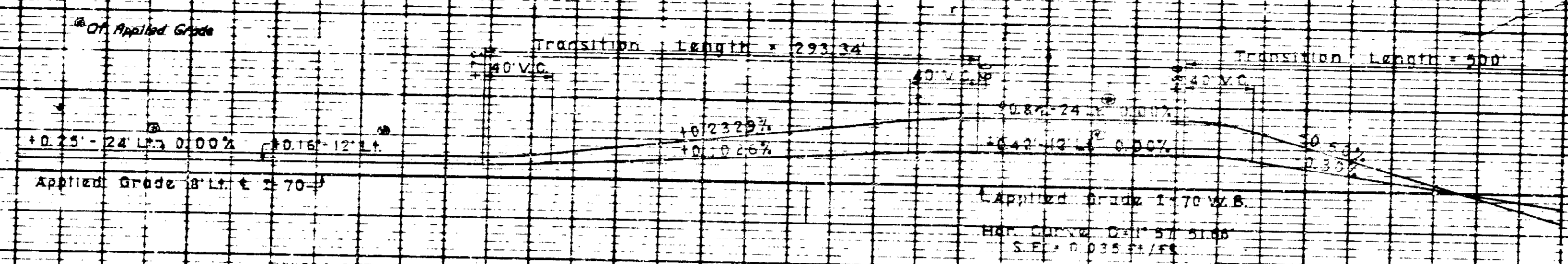


347	700.00	700.00
348	700.00	700.00
349	700.00	700.00
350	700.00	700.00
351	700.00	700.00
352	700.00	700.00
353	700.00	700.00
354	700.00	700.00
355	700.00	700.00
356	700.00	700.00

INTERSTATE ROUTE 70 EASTBOUND

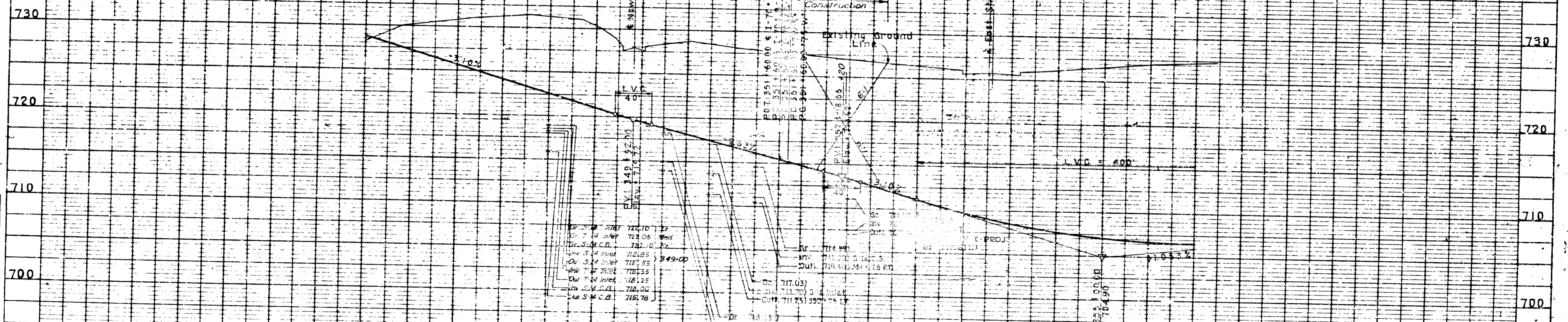






TRANSITION DIAGRAM  
 Guard Rail Type: C  
 Road in Median (See Sheet No. 36)  
 Biluminous Curb Roadway  
 See Sheet No. 40  
 Luminous Curb Roadway  
 See Sheet No. 59

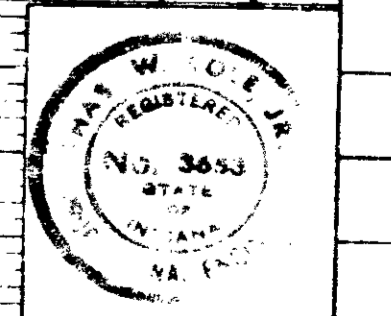
FMG  
 BEGIN CONSTRUCTION - PROJECT 70-3(71)77  
 END CONSTRUCTION - PROJECT 65-3(106)111



Gr. S-1 Inlet	722.10	Gr.
Gr. S-2 Inlet	722.05	Gr.
Gr. S-3 C.B.	721.10	Gr.
Gr. S-4 Inlet	718.85	Gr.
Gr. S-5 Inlet	717.55	Gr.
Gr. S-6 Inlet	715.55	Gr.
Gr. S-7 Inlet	713.25	Gr.
Gr. S-8 C.B.	712.00	Gr.
Gr. S-9 C.B.	711.78	Gr.

347	722.10	722.10
348	722.05	722.05
349	721.10	721.10
350	718.85	718.85
351	717.55	717.55
352	715.55	715.55
353	713.25	713.25
354	712.00	712.00
355	711.78	711.78
356	711.55	711.55
357	711.30	711.30
358	711.05	711.05
359	710.80	710.80
360	710.55	710.55
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362	710.05	710.05
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395	701.80	701.80
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400	700.55	700.55

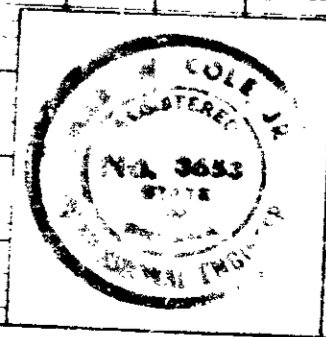
INTERSTATE ROUTE 70 WESTBOUND



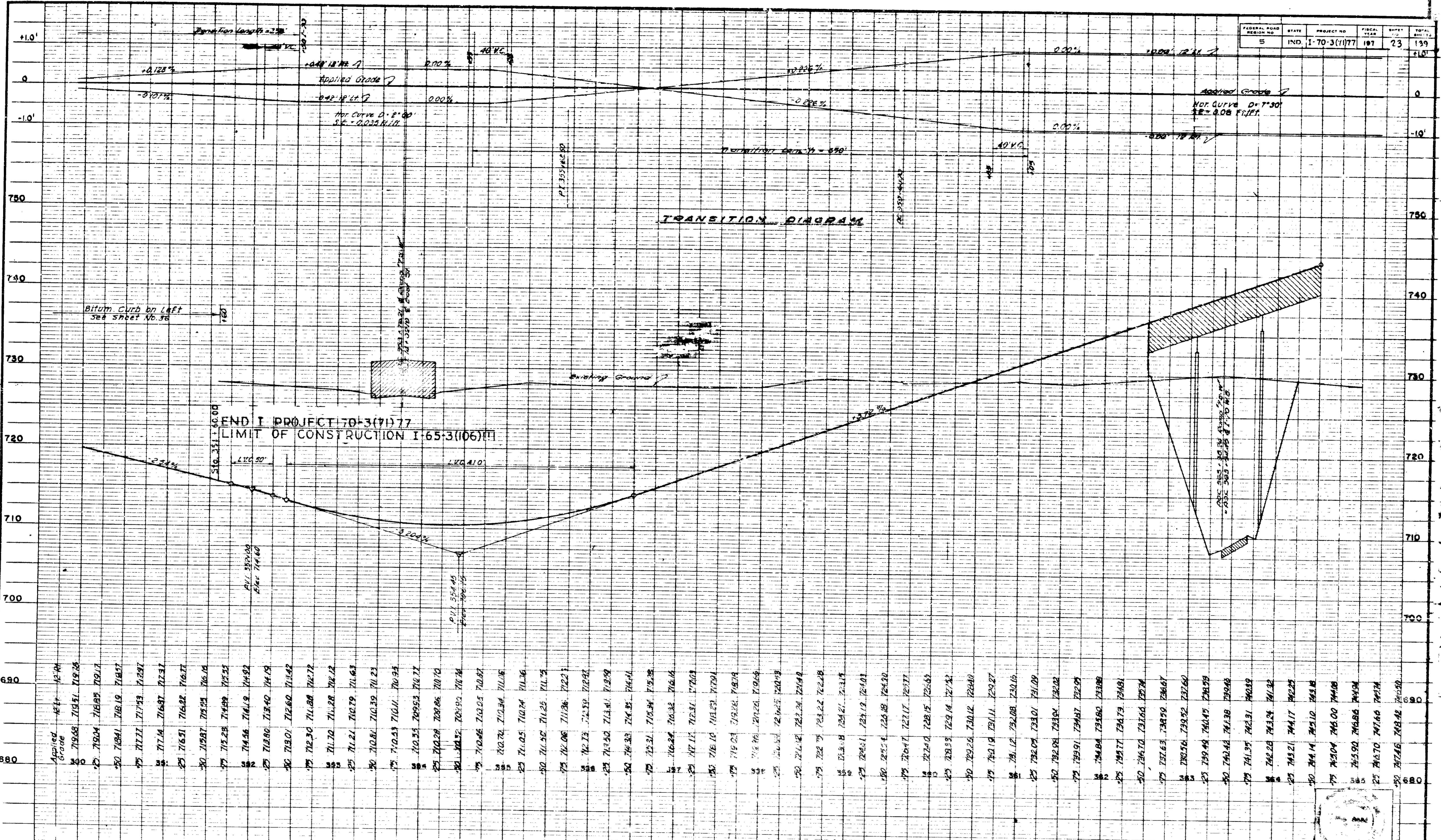
PROFILE  
 DATE  
 DRAWN BY  
 CHECKED BY  
 GRADES CHECKED  
 B. M. NOTED  
 STRUCTURE NOTING CHECKED



**PROFILE**  
 DRAWING NO. 3653  
 DATE 10/1/77  
 BY J.M.C.  
 CHECKED J.M.C.  
 APPROVED J.M.C.



INTERSTATE CONNECTOR "7W-5"



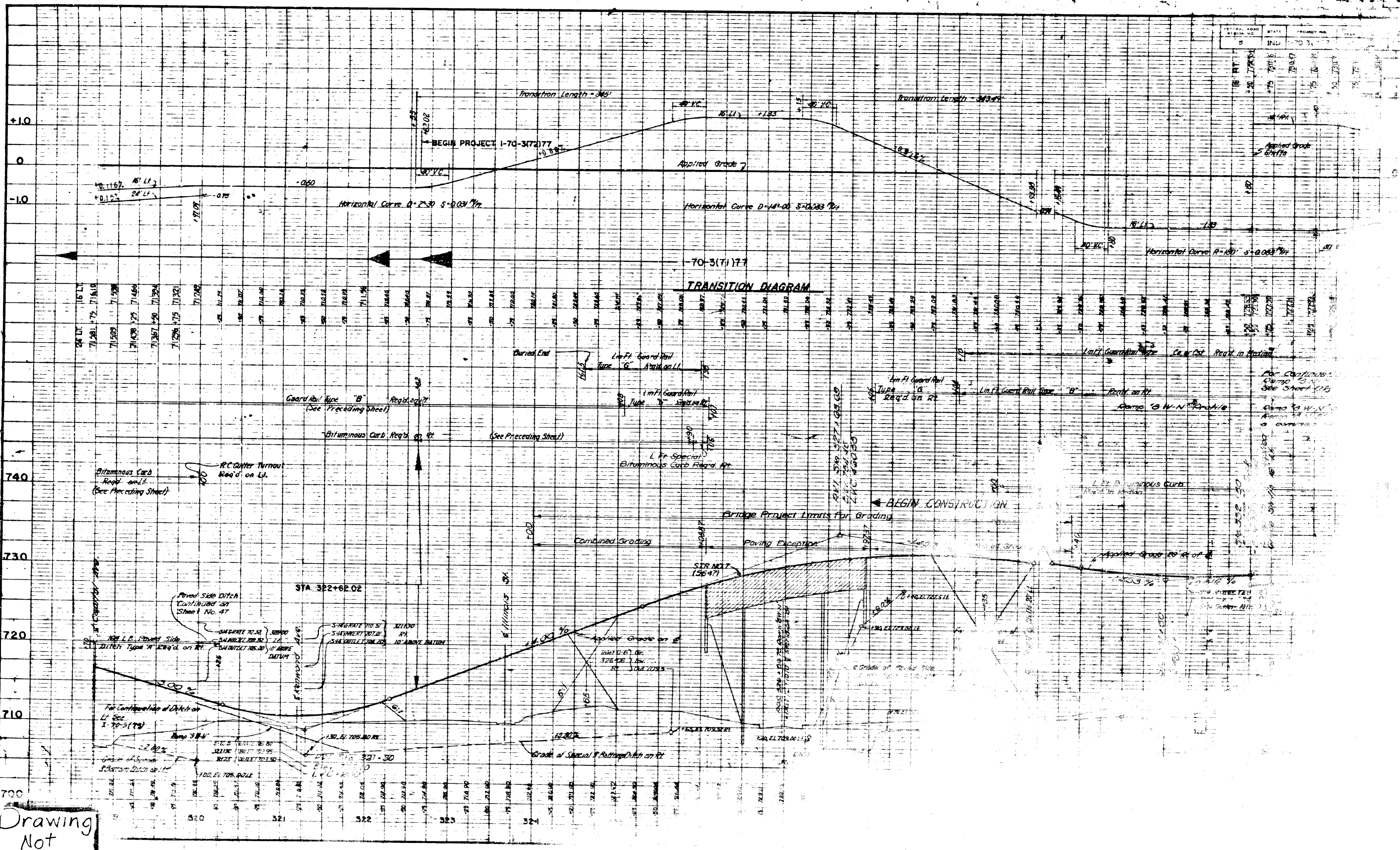
END I PROJECT 70-3(71)77  
LIMIT OF CONSTRUCTION I-65-3(106) III

TRANSITION DIAGRAM

INTERSTATE CONNECTOR '75-W'

NOTE BOOK CHECKED  
S. M. W. REO  
NO. 1  
STRUCTURE NOTATION CHD.

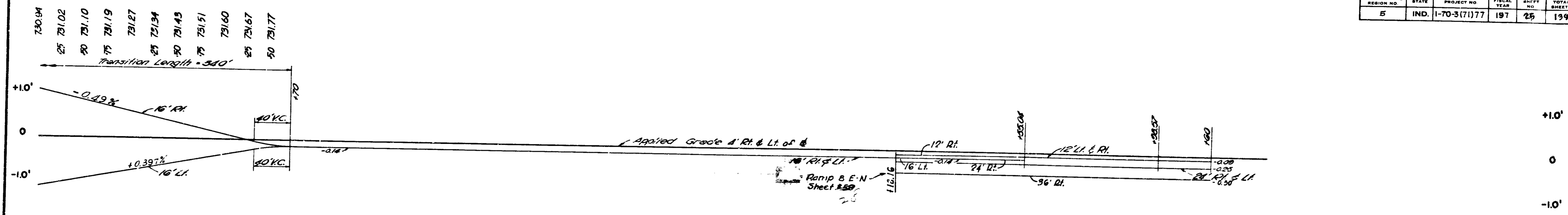
STATION	DATE	PROJECT NO.	SCALE
70+00	7/15/52	70-3(7)177	1" = 40'
70+00	7/15/52	70-3(7)177	1" = 40'
70+00	7/15/52	70-3(7)177	1" = 40'
70+00	7/15/52	70-3(7)177	1" = 40'
70+00	7/15/52	70-3(7)177	1" = 40'



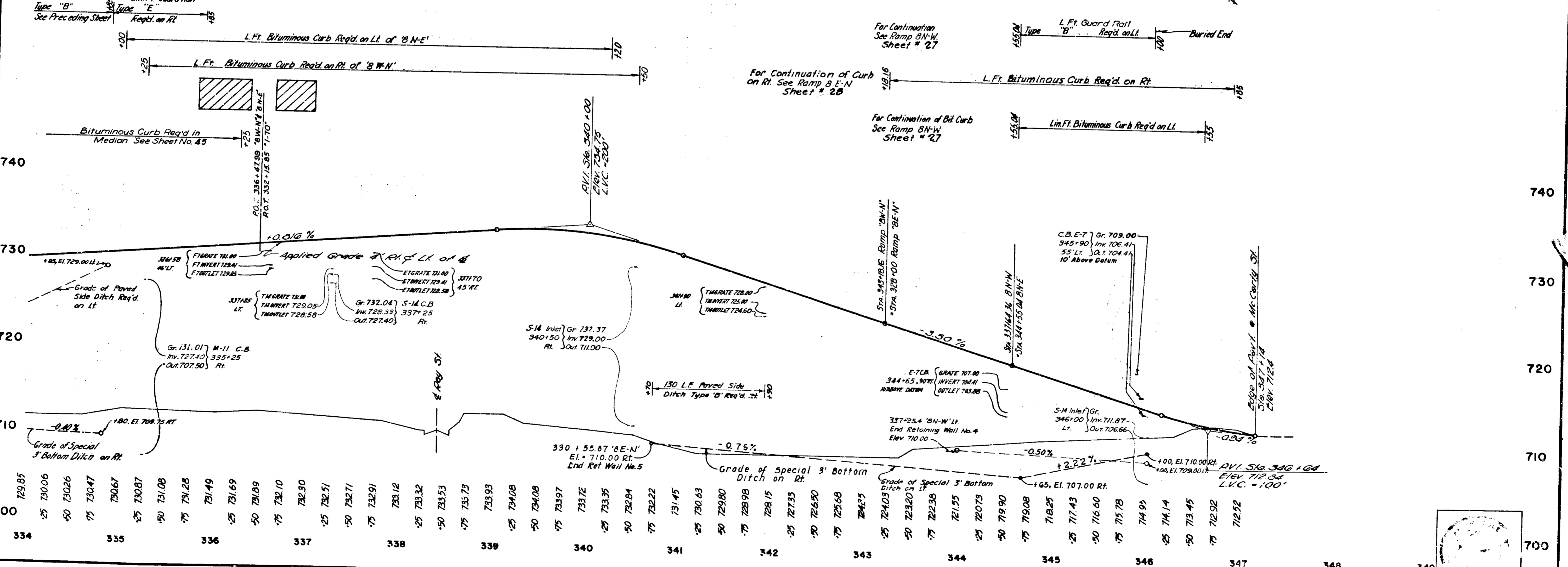
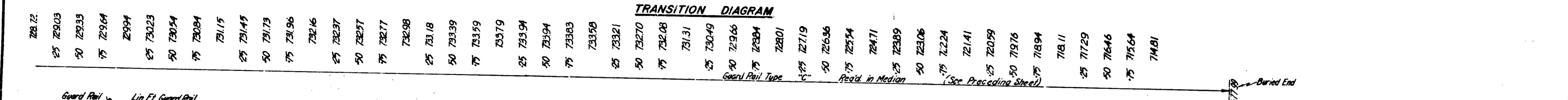
DATE	BY	REVISION

Drawing  
Not  
Legible

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(7)77	197	25	139



**TRANSITION DIAGRAM**

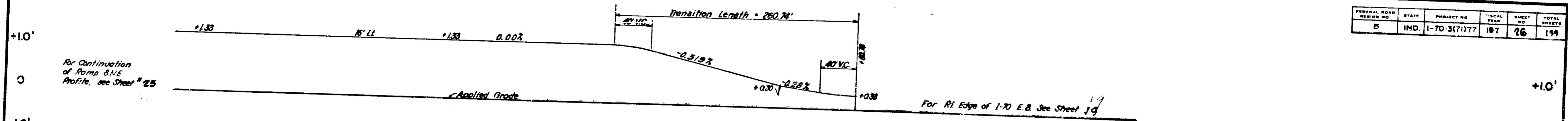


DATE	BY	PROFILE	REVISIONS

**RAMP "8W-N" & RAMP "8N-E"**

PROJECT NO.	SHEET NO.	TOTAL SHEETS
1-70-3(7)77	25	139

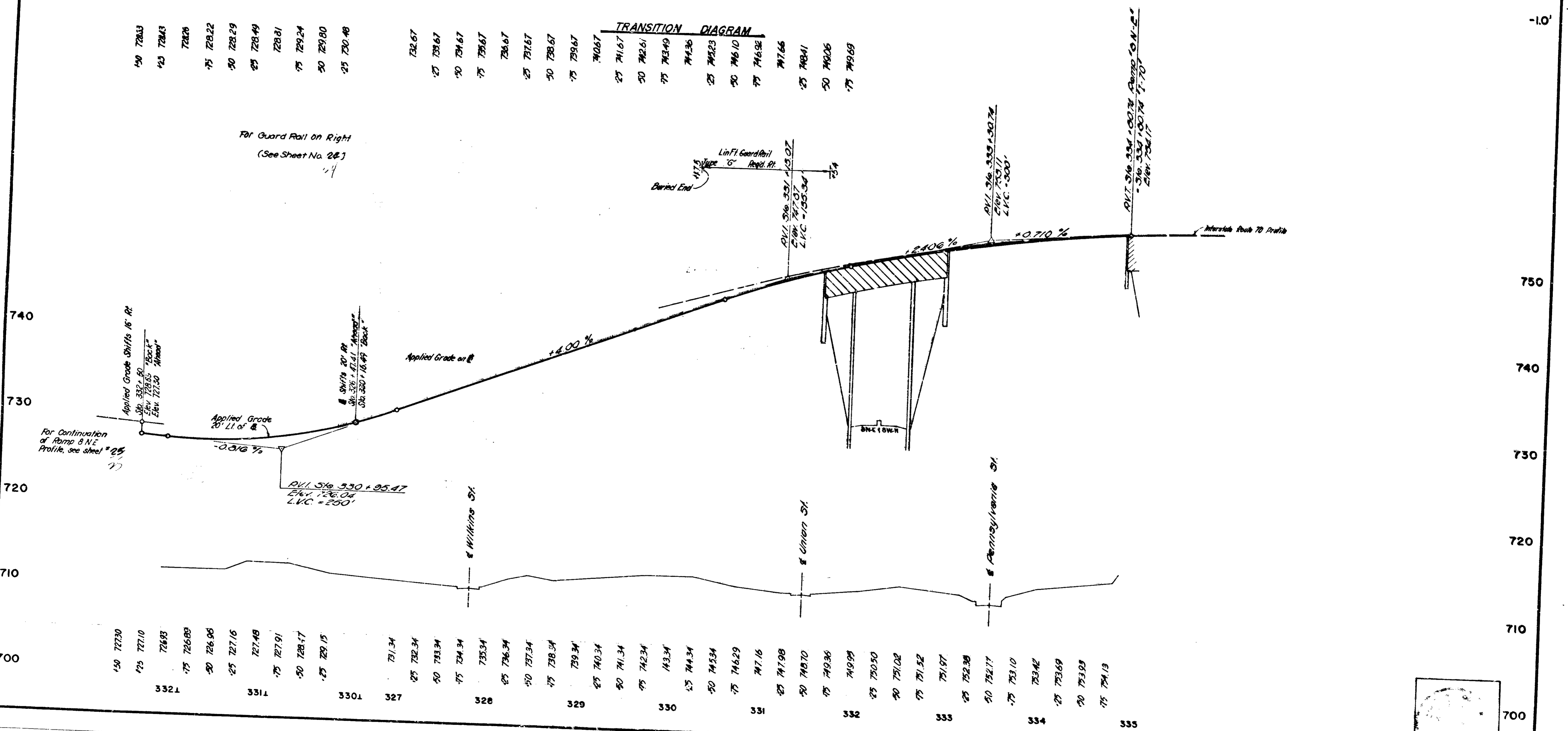
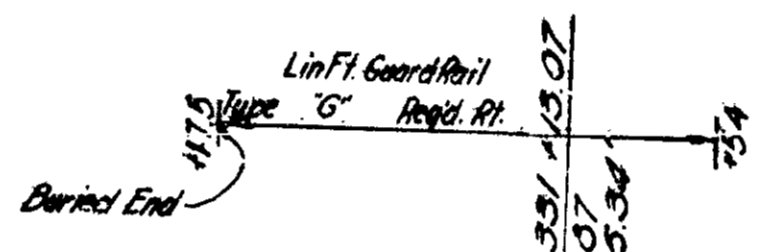
FEDERAL ROAD DESIGN NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(7)77	197	26	159



Horizontal Curve  $R = 150'$   $S = 0.083\%$

TRANSITION DIAGRAM	
150	728.53
175	728.22
200	728.29
225	728.49
250	729.80
275	730.48
300	732.67
325	739.67
350	739.67
375	739.67
400	736.67
425	737.67
450	738.67
475	739.67
500	740.67
525	741.67
550	742.61
575	743.49
600	744.36
625	744.23
650	746.10
675	746.92
700	747.66
725	748.41
750	749.05
775	749.69

For Guard Rail on Right  
(See Sheet No. 24)



150	722.30	332.1
175	727.10	331.1
200	726.83	330.1
225	726.96	327
250	727.16	328
275	727.91	329
300	728.17	330
325	729.15	331
350	731.34	332
375	732.34	333
400	733.34	334
425	734.34	335
450	735.34	
475	736.34	
500	737.34	
525	738.34	
550	739.34	
575	740.34	
600	741.34	
625	742.34	
650	743.34	
675	744.34	
700	745.34	
725	746.29	
750	747.16	
775	747.98	
800	748.70	
825	749.36	
850	749.99	
875	750.50	
900	751.02	
925	751.52	
950	751.97	
975	752.38	
1000	752.77	
1025	753.10	
1050	753.42	
1075	753.69	
1100	753.93	
1125	754.13	

RAMP "8 N-E"

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3(7)77		26	159	



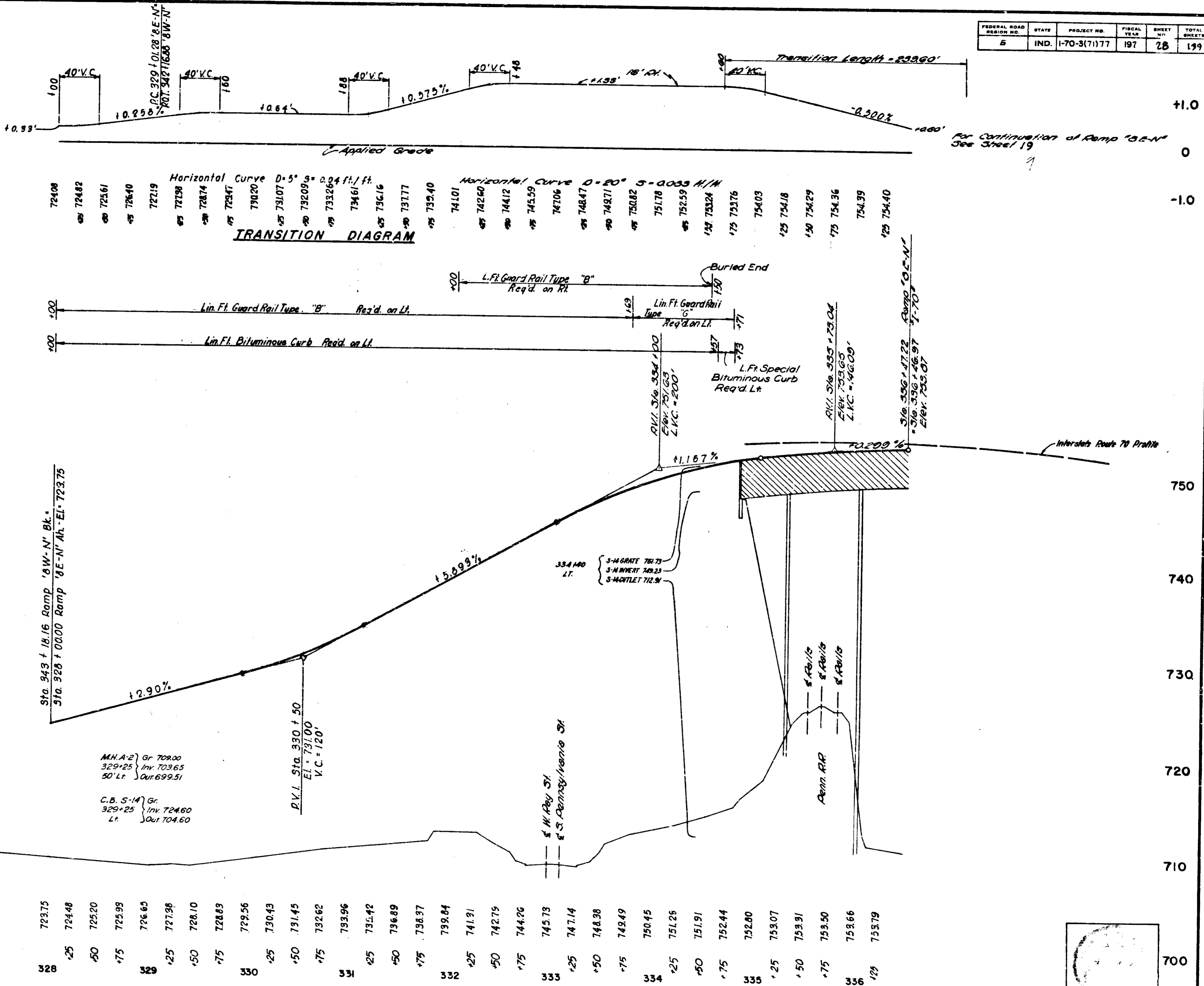
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
6	IND.	1-70-3(7)177	197	28	199

For Ramp "G-N" Profile See Sheet 25

For Continuation of Ramp "G-N" See Sheet 19

For Continuation of Guard Rail & Bit. Curb See Sheet No. 25

**TRANSITION DIAGRAM**



Station	Elevation	Station	Elevation
72408		74101	
72482		74260	
72561		74412	
72640		74559	
72719		74706	
72798		74847	
72874		74971	
72947		75082	
73020		75178	
73107		75259	
73209		75324	
73328		75376	
73461		75403	
73616		75418	
73777		75429	
73940		75436	
74101		75439	
74260		75440	
74412			
74559			
74706			
74847			
74971			
75082			
75178			
75259			
75324			
75376			
75403			
75418			
75429			
75436			
75439			
75440			

M.H. A-2 Gr. 709.00  
329+25 Inv. 703.65  
50' Lt. Out. 699.51

C.B. S-14 Gr.  
329+25 Inv. 724.60  
Lt. Out. 704.60

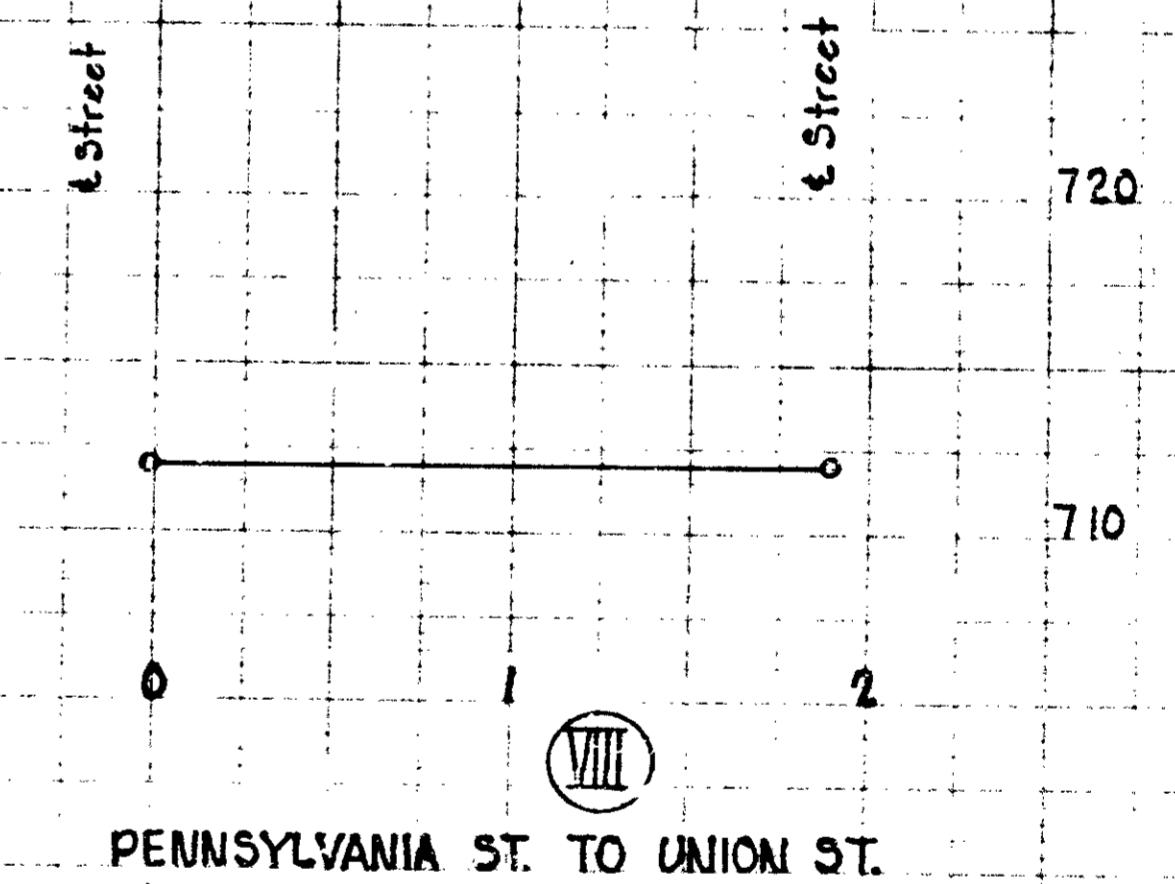
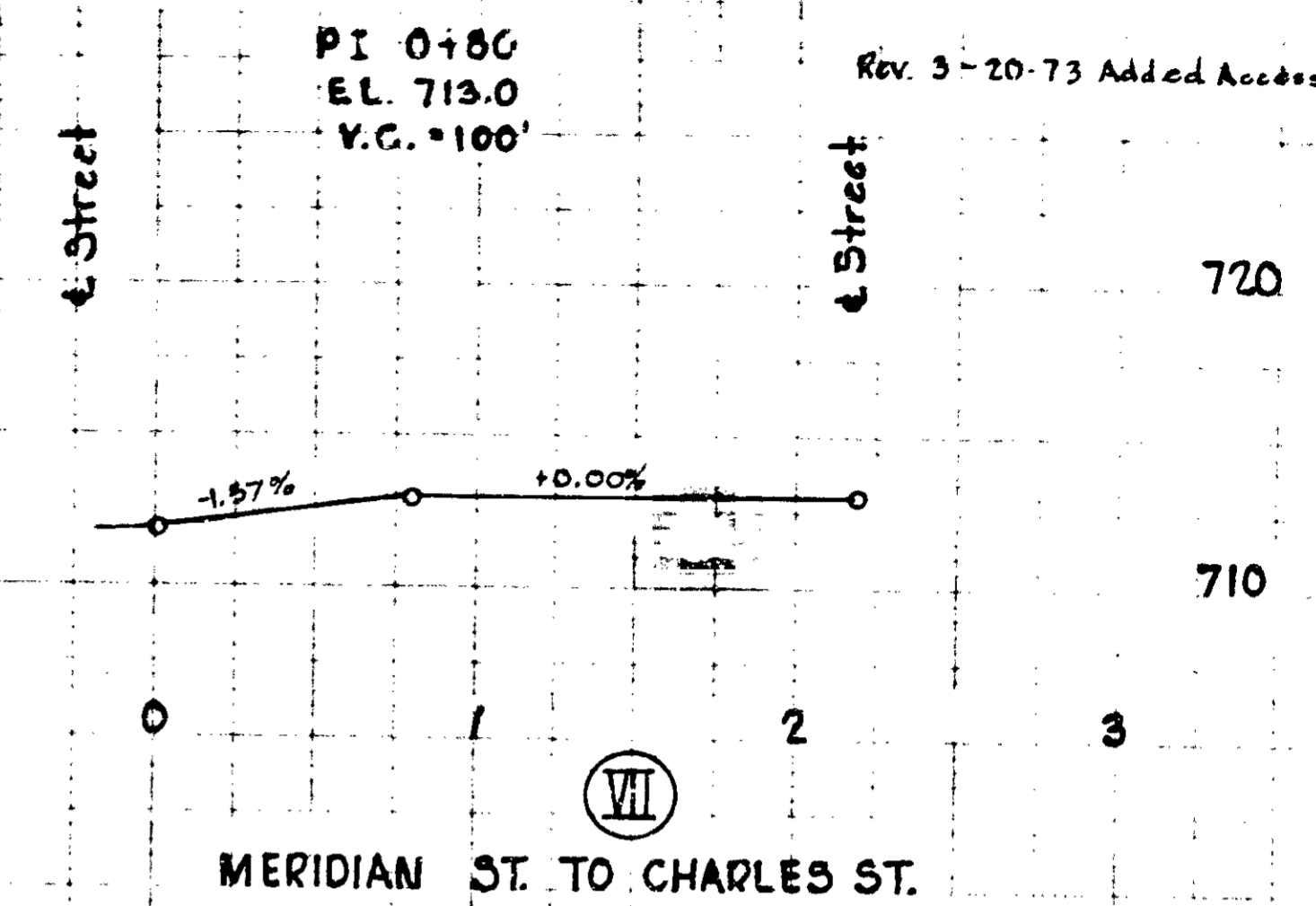
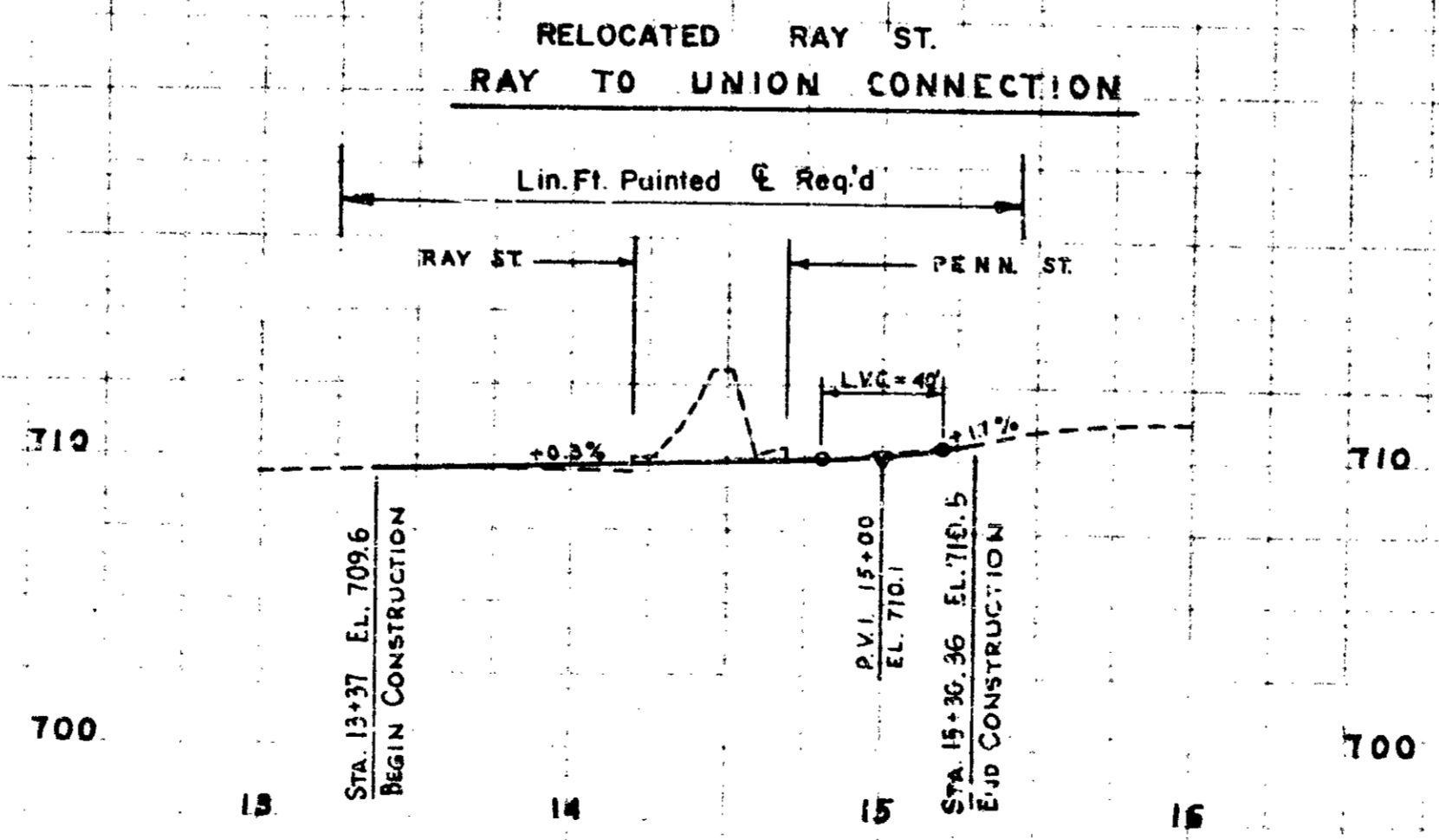
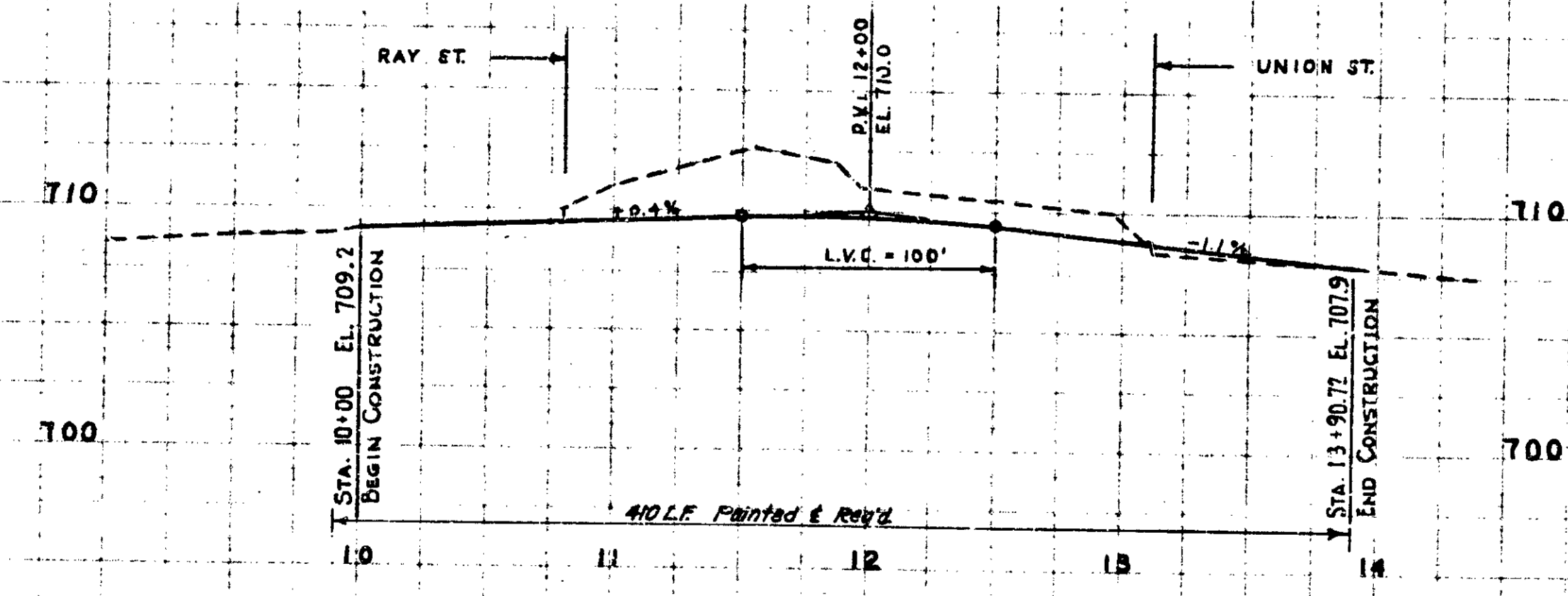
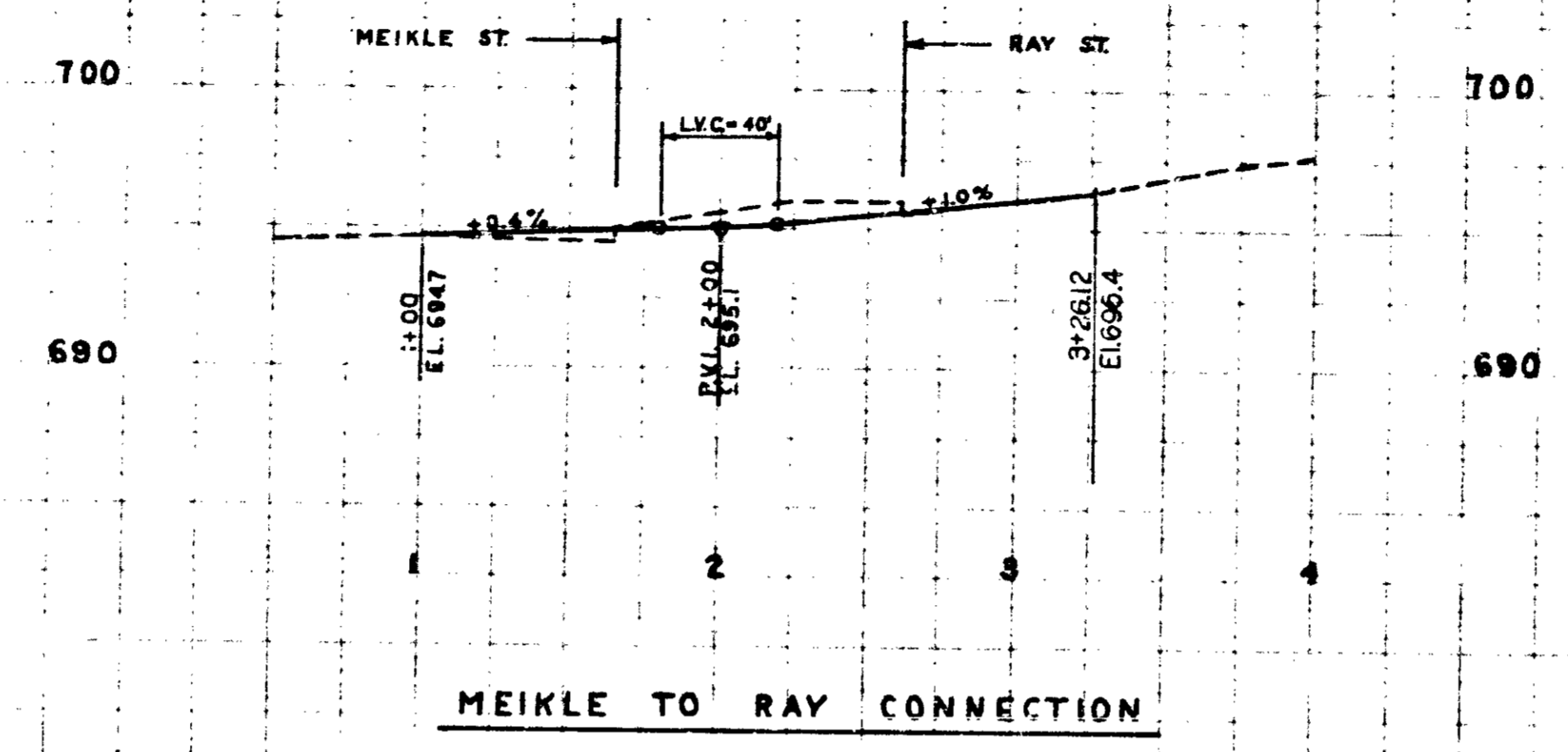
DATE	BY	REVISION

**RAMP "8E-N"**

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
1-70-3(7)177		28	199



Rev. 3-20-73 Added Access Rd.



MEIKLE TO RAY CONNECTION  
 RAY TO UNION CONNECTION  
 RAY TO PENN. CONNECTION

*Handwritten initials*

STORM DRAINAGE

INDIANAPOLIS SANITARY DISTRICT FACILITIES

Table with columns: FED. ROAD REGION NO., STATE, PROJ. NO., FISCAL YEAR, SHEET NO., TOTAL SHEETS. Values: 5, IND., I-70-3(69)77, 197, 30, 139.

Sta. 315+10, 10W-E, 44' Rt. STRUCTURE NO. 77 Catch Basin Type E-7 & 44' of 18" Pipe Req'd. Sta. 315+12, & I-70, 212' Rt. STRUCTURE NO. 78 (M.H.#7) Manhole Type G-4 & 352' of 96" Pipe Req'd. Class "B" Bedding Sta. 316+50, 8W-N STRUCTURE NO. 79 90' of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 316+65, 8W-N, Lt. STRUCTURE NO. 80 Inlet Type D-6 & of 12" Pipe Req'd. Sta. 317+50, & I-70 STRUCTURE NO. 81 Inlet Type S-14 & 54' of 12" Pipe Req'd. Sta. 317+50, & I-70, Lt. STRUCTURE NO. 82 Spec. Inlet Type T-14 & 92' of 12" Pipe Req'd. Sta. 315+95, 9W-W, Rt. STRUCTURE NO. 83 Inlet Type D-6 & of 12" Pipe Req'd. Sta. 319+00, 9N-W STRUCTURE NO. 84 Inlet Type S-14 & 30' of 12" Pipe Req'd. Sta. 318+50, & I-70, Rt. STRUCTURE NO. 85 Inlet Type S-14 & 66' of 12" Pipe Req'd. Sta. 319+50, & I-70 STRUCTURE NO. 86 Inlet Type S-14 & 120' of 12" Pipe Req'd. Sta. 319+75, & I-70 STRUCTURE NO. 87 DELETED Inlet Type E-7 & 122' of 12" Pipe Req'd. Sta. 320+00, 8W-N, Lt. STRUCTURE NO. 88 Inlet Type S-14 & 28' of 12" Pipe Req'd. Sta. 324+60, 9W-N, 30' Lt. STRUCTURE NO. 89 DELETED Inlet Type P-12 & 10' of 15" Pipe Req'd. Sta. 324+60, 9W-N, 30' Lt. STRUCTURE NO. 90 Catch Basin Type A-7 & 294' of 30" Pipe Req'd. Sta. 324+50, 9W-N, Rt. STRUCTURE NO. 91 Inlet Type M-11 & 56' of 15" Pipe Req'd. Sta. 324+60, 9W-N, 24' Rt. STRUCTURE NO. 92 Inlet Type F-7 & 36' of 15" Pipe Req'd.

Sta. 321+99, & I-70 STRUCTURE NO. 93 184' of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 323+39, & I-70 STRUCTURE NO. 94 184' of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 323+50, & I-70 STRUCTURE NO. 95 Inlet Type S-14 & 166' of 12" Pipe Req'd. Sta. 321+03, & I-70, 117' Rt. STRUCTURE NO. 96 DELETED Inlet Type P-12 & 8' of 15" Pipe Req'd. Sta. 321+03, & I-70, 117' Rt. STRUCTURE NO. 97 Catch Basin Type A-7 & 106' of 36" Pipe Req'd. Sta. 321+30, 8W-N, Rt. STRUCTURE NO. 98 Inlet Type S-14 & 14' of 12" Pipe Req'd. Sta. 321+30, 8W-N, 23' Rt. STRUCTURE NO. 99 Catch Basin Type E-7 & 18' of 12" Pipe Req'd. Sta. 321+28, & I-70, 219' Rt. STRUCTURE NO. 100 (M.H.#8) Manhole Type G-4 & 612' of 96" Pipe Req'd. Class "B" Bedding Sta. 322+00, 9W-N, 40' Rt. STRUCTURE NO. 101 Inlet Type N-12 & 95' of 15" Pipe Req'd. Sta. 326+08, 8W-N, Rt. STRUCTURE NO. 102 Inlet Type D-6 & of 12" Pipe Req'd. Sta. 326+00, 8W-N STRUCTURE NO. 103 of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 326+25, & I-70, 115' Rt. STRUCTURE NO. 104 Catch Basin Type E-7 & of 12" Pipe Req'd. Sta. 325+95, & I-70, Rt. STRUCTURE NO. 105 Inlet Type D-6 & of 12" Pipe Req'd. Sta. 325+75, & I-70 STRUCTURE NO. 106 of 6" F.B.C.P.C.S. Pipe Req'd.

Sta. 327+75, & I-70 STRUCTURE NO. 107 of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 327+60, & I-70 Rt. STRUCTURE NO. 108 C.B. Type D-6 & of 12" F.B.C.P.C.S. Pipe Req'd. Sta. 327+70, & I-70, Lt. STRUCTURE NO. 109 Inlet Type S-14 & of 12" Pipe Req'd. Sta. 327+83, & I-70 STRUCTURE NO. 110 Inlet Type T-14 & of 12" Pipe Req'd. Sta. 327+75, & I-70, Rt. STRUCTURE NO. 111 Inlet Type T-14 & of 12" Pipe Req'd. Sta. 327+40, & I-70, 157' Rt. STRUCTURE NO. 112\* Catch Basin Type E-7 & 16' of 12" Pipe Req'd. Sta. 327+25, & I-70, 153' Rt. STRUCTURE NO. 113 Manhole Type A-4 & of 24" Pipe Req'd. Sta. 327+28, & I-70, 202' Rt. STRUCTURE NO. 114 (M.H.#9) 248' of 36" Pipe Req'd. Connect to 36" Pipe & Manhole in Bridge Proj. I-70-3(69)77. Class "B" Bedding Sta. 327+28, & I-70, 202' Rt. STRUCTURE NO. 114A Manhole Type G-4 & of 36" Pipe Req'd. Sta. 328+10, 8W-N, Rt. STRUCTURE NO. 115 of 6" F.B.C.P.C.S. Pipe Req'd. Sta. 328+20, 8W-N, 62' Rt. STRUCTURE NO. 116 Catch Basin Type E-7 & of 12" Pipe Req'd. Sta. 327+20, & I-70, 135' Lt. STRUCTURE NO. 117 Catch Basin Type A-7 & of 24" Pipe Req'd. Construct in Bridge Project I-70-3(69)77. File I-70-77-5646. Sta. 327+20, & I-70, 135' Lt. STRUCTURE NO. 118 DELETED Catch Basin Type E-7 & 18' of 12" Pipe Req'd. Sta. 330+65, 8W-N, 73' Lt. STRUCTURE NO. 119\* Manhole Type A-4 & 286' of 24" Pipe Req'd. Sta. 329+25, 8E-N, 50' Rt. STRUCTURE NO. 120\* Manhole Type A-4 & 460' of 24" Pipe Req'd.

Sta. 325+46, 9W-N, 88' Rt. STRUCTURE NO. 641 Inlet Type A-3 & 24' of 12" Pipe Req'd. Sta. 325+23, 9W-N, 80' Rt. STRUCTURE NO. 542 Catch Basin Type A-w/I.S.D. Casting No. 3305 & 16' of 12" Pipe Req'd. Sta. 325+35, 9W-N, 66' Rt. STRUCTURE NO. 643 Manhole Type E w/I.S.D. Cast. No. R-1772-CVH & 140' of 48" Pipe Req'd. Sta. 322+12, I-70, 92' Lt. STRUCTURE NO. 644 Remove Existing Manhole & Seal Existing Pipes. Sta. 322+35, 8W-N, 16' Rt. STRUCTURE NO. 645 Remove Existing Manhole & Seal Existing Pipes. Sta. 321+38, 8W-N, 39' Rt. STRUCTURE NO. 646 Use Existing Inlet in Place. No Changes Req'd. Sta. 323+99, 8W-N, 50' Rt. STRUCTURE NO. 647 Use Existing Inlet in Place. No Changes Req'd. Sta. 325+02, I-70, 85' Rt. STRUCTURE NO. 648 Remove Existing Manhole & Seal Existing Pipes. Sta. 325+22, 8W-N, 68' Rt. STRUCTURE NO. 649 Use Existing Manhole in Place & of 12" Pipe Req'd. Sta. 326+62, 8W-N, 54' Rt. STRUCTURE NO. 650 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 12" Pipe Req'd. Sta. 326+75, 8W-N, 30' Rt. STRUCTURE NO. 651 Use Existing Catch Basin in Place. No Changes Req'd. Sta. 326+88, 8W-N, 58' Rt. STRUCTURE NO. 652 Use Existing Catch Basin in Place. No Changes Req'd. Sta. 327+42, 8W-N, 4' Lt. STRUCTURE NO. 653 Remove Existing Inlet & Seal Existing Pipe. Sta. 327+58, 8W-N, 16' Rt. STRUCTURE NO. 654 Remove Existing Inlet & Seal Existing Pipe. Sta. 327+50, 8W-N, 40' Rt. STRUCTURE NO. 654A Use Existing Catch Basin in Place. No Changes Req'd.

Sta. 327+38, 8W-N, 13' Rt. STRUCTURE NO. 655 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 18" Pipe Req'd. Sta. 327+98, 8W-N, 84' Rt. STRUCTURE NO. 656 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 15" Pipe Req'd. Sta. 330+62, 8W-N, 102' Rt. STRUCTURE NO. 657 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 15" Pipe Req'd. Sta. 332+03, 8W-N, 100' Rt. STRUCTURE NO. 658 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 15" Pipe Req'd. Sta. 333+36, 8W-N, 108' Rt. STRUCTURE NO. 659 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 15" Pipe Req'd. Sta. 333+48, 8W-N, 150' Rt. STRUCTURE NO. 660 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 15" Pipe Req'd. Sta. 334+11, 8W-N, 121' Rt. STRUCTURE NO. 661 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 12" Pipe Req'd. Sta. 334+50, 8W-N, 120' Rt. STRUCTURE NO. 662 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 12" Pipe Req'd. Sta. 330+50, 8W-N, 68' Rt. STRUCTURE NO. 663 Remove Existing Manhole & Seal Existing Pipes. Sta. 327+28, 8N-E, 40' Rt. STRUCTURE NO. 664 Remove Existing Inlet & Seal Existing Pipe. Sta. 327+36, 8N-E, 18' Rt. STRUCTURE NO. 665 Remove Existing Catch Basin & Seal Existing Pipes. Sta. 327+55, 8N-E, 55' Rt. STRUCTURE NO. 666 Remove Existing Inlet & Seal Existing Pipe. Sta. 327+89, 8N-E, 58' Rt. STRUCTURE NO. 667 Remove Existing Catch Basin & Seal Existing Pipes. Sta. 327+73, 8N-E, 96' Rt. STRUCTURE NO. 668 Remove Existing Manhole & Seal Existing Pipes. Sta. 329+45, 8N-W, 136' Lt. STRUCTURE NO. 677A Use Existing Manhole in Place.

Sta. 334+35, 8N-E, 58' Rt. STRUCTURE NO. 669 Remove Existing Inlet & Seal Existing Pipes. Sta. 334+41, 8N-E, 90' Rt. STRUCTURE NO. 670 Remove Existing Catch Basin & Seal Existing Pipes. Sta. 333+98, 8N-E, 65' Rt. STRUCTURE NO. 671 Remove Existing Manhole & Seal Existing Pipes. Sta. 333+44, 8N-E, 80' Rt. STRUCTURE NO. 672 Remove Existing Catch Basin & Seal Existing Pipe. Sta. 334+56, 8N-E, 47' Rt. STRUCTURE NO. 673 Remove Existing Catch Basin & Seal Existing Pipe. Sta. 326+95, I-70, 75' Lt. STRUCTURE NO. 674 Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & of 18" Pipe Req'd. Sta. 326+85, I-70, 197' Lt. STRUCTURE NO. 675 Use Existing Manhole in Place. Sta. 326+90, I-70, 185' Lt. STRUCTURE NO. 676 Catch Basin Type A-w/I.S.D. Casting No. 3305 & 4' of 12" Pipe Req'd. Sta. 329+51, 8N-W, 136' Lt. STRUCTURE NO. 677\* Catch Basin Type A-w/I.S.D. Casting No. 3305 & 4' of 12" Pipe Req'd. Sta. 329+52, 8N-W, 132' Lt. STRUCTURE NO. 678\* Inlet Type A-w/I.S.D. Casting No. 3305 & 4' of 12" Pipe Req'd. Construct in Bridge Project I-70-3(69)77 File I-70-77-2417. Sta. 329+54, 8N-W, 121' Lt. STRUCTURE NO. 679 Manhole Type E w/I.S.D. Casting R-1772-CVH Sta. 329+50, 8N-W, 103' Lt. STRUCTURE NO. 680 Remove Existing Inlet Sta. 329+53, 8N-W, 109' Lt. STRUCTURE NO. 681 Inlet Type A-w/I.S.D. Casting No. 3305 Sta. 330+48, 8N-W, 113' Lt. STRUCTURE NO. 682 Manhole Type E w/I.S.D. Cast. No. R-1772-CVH & of 48" Pipe Req'd. Construct in Bridge Project I-70-3(69)77 File I-70-77-2417. Sta. 333+76, 8N-W, 40' Lt. STRUCTURE NO. 683\* Manhole Type C w/I.S.D. Cast. No. R-1772-CVH & 246' of 12" Pipe Req'd. Sta. 333+53, 8N-W, 101' Lt. STRUCTURE NO. 684 Remove Existing Catch Basin

Bridge Project I-70-3(69)77 File I-70-77-5646

Bridge Project I-70-3(69)77 File I-70-77-5646

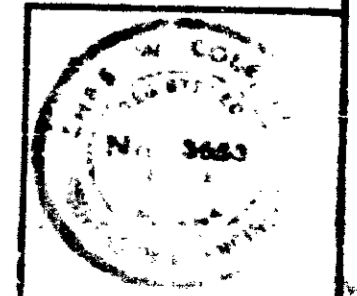
Construct in Bridge Project I-70-3(72)77

Construct in Bridge Project I-70-3(69)77 File I-70-77-5647

I-70-3(69)77 File I-70-77-5646

I-70-3(69)77 File I-70-77-5646

\* = TO BE BUILT



FED. ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71)77	197	31	199

# STORM DRAINAGE

# INDIANAPOLIS SANITARY DISTRICT FACILITIES

Sta. 344 + 65, 8E-N, 8W-N, 75' Rt.  
STRUCTURE NO. 121 \*  
Catch Basin Type E-7 &  
268' of 24" Pipe Req'd.

Sta. 345 + 90, 8N-E, 8W-N, 55' Lt.  
STRUCTURE NO. 122 \*  
Catch Basin Type E-7 &  
178' of 12" Pipe Req'd.

Sta. 346 + 00, 8N-E, 8W-N, Lt.  
STRUCTURE NO. 123  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 346 + 00, 8N-E, 8W-N, Rt.  
STRUCTURE NO. 124  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 329 + 25, 8E-N  
STRUCTURE NO. 125  
C.B. Type S-14 &  
' of 12" Pipe Req'd.

Sta. 341 + 90, 8N-E, Lt.  
STRUCTURE NO. 126  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 335 + 00, 8N-W, Lt.  
STRUCTURE NO. 127  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 340 + 50, 8W-N, Rt.  
STRUCTURE NO. 128  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 331 + 75, 8N-E, 8W-N, 4' Rt.  
STRUCTURE NO. 129  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 330 + 50, & I-70, 285' Rt.  
STRUCTURE NO. 130  
Inlet Type E-7 &  
8' of 12" Pipe Req'd.

Sta. 330 + 40, & I-70, 285' Rt.  
STRUCTURE NO. 131 \*  
Catch Basin Type E-7 &  
72' of 15" Pipe Req'd.

Sta. 330 + 65, & I-70, 206' Rt.  
STRUCTURE NO. 132 (M.H.#10)  
Manhole Type G-4 &  
142' of 96" Pipe Req'd. Class "B" Bedding  
Connect to 96" Pipe in I-70-3(69)77

Sta. 335 + 25, 8N-E, 8W-N, 28' Rt.  
STRUCTURE NO. 133 \*  
Catch Basin Type M-11 &  
78' of 18" Pipe Req'd.

Sta. 331 + 10, I-70, 170' Rt.  
STRUCTURE NO. 134 \*  
Catch Basin Type E-7 &  
12' of 18" Pipe Req'd.

Sta. 331 + 46, & I-70  
STRUCTURE NO. 135  
148' of 6" F.B.C.P.C.S. Pipe Req'd.

Sta. 331 + 54, I-70, 54' Lt.  
STRUCTURE NO. 136  
Inlet Type D-6 &  
' of 12" Pipe Req'd.  
See I-70-77-564B

Sta. 327+31 to 328+71, I-70  
STRUCTURE NO. 136A  
' of 96" Pipe Req'd.

Construct in Project I-70-3(72)77

Bridge Proj. I-70-3(69)77  
File I-70-77-2417

Construct in Project I-70-3(69)77

Sta. 336 + 58, 8N-E, 8W-N, 46' Lt.  
STRUCTURE NO. 137 \*  
Inlet Type F-7 &  
36' of 12" Pipe Req'd.

Sta. 337 + 25, 8N-E, 8W-N, 28' Lt.  
STRUCTURE NO. 138 \*  
Inlet Type T-14 &  
52' of 12" Pipe Req'd.

Sta. 337 + 70, 8N-E, 8W-N, 48' Rt.  
STRUCTURE NO. 139 \*  
Inlet Type E-7 &  
48' of 12" Pipe Req'd.

Sta. 337 + 25, 8N-E, 8W-N, 28' Rt.  
STRUCTURE NO. 140 \*  
Catch Basin Type S-14 &  
198' of 18" Pipe Req'd.

Sta. 332 + 90, & I-70  
STRUCTURE NO. 141  
140' of 5" F.B.C.P.C.S. Pipe Req'd.

Sta. 333 + 02, & I-70  
STRUCTURE NO. 142  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Sta. 333 + 02, I-70, 66' Rt.  
STRUCTURE NO. 143  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 330+65 to Sta. 333+20 Rt. I-70  
STRUCTURE NO. 144  
252' of 96" Pipe Req'd. Class "B" Bedding  
' of 6" F.B.C.P.C.S. Pipe Req'd.

Sta. 334 + 70, & I-70  
STRUCTURE NO. 145  
Inlet Type D-6 &  
' of 12" Pipe Req'd.

Sta. 334 + 80, 8E-N, 8' Lt.  
STRUCTURE NO. 145  
Inlet Type D-6 &  
' of 12" Pipe Req'd.

Sta. 334 + 77, I-70, 66' Rt.  
STRUCTURE NO. 146  
Inlet Type D-6 &  
' of 12" Pipe Req'd.

Sta. 335 + 08, I-70, 160' Lt.  
STRUCTURE NO. 147  
Catch Basin Type E-7 &  
of 12" Pipe Req'd.

Sta. 335 + 05, I-70, 115' Rt.  
STRUCTURE NO. 148A (M.H.#11)  
Manhole Type G-4 &  
of 96" Pipe Req'd.

Sta. 336 + 25, I-70, 80' Rt.  
STRUCTURE NO. 149 (M.H.#12)  
Manhole Type G-4 &  
of 96" Pipe Req'd.

Sta. 339 + 75, I-70, 80' Rt.  
STRUCTURE NO. 150 (M.H.#13)  
Manhole Type G-4 &  
of 96" Pipe Req'd.

Construct in Project I-70-3(72)77

Bridge File I-70-77-2417

Sta. 339 + 83, I-70, 127' Rt.  
STRUCTURE NO. 151  
Catch Basin Type E-7 &  
of 18" Pipe Req'd.

~~Sta. 339 + 90, I-70, 127' Rt.  
STRUCTURE NO. 152  
Inlet Type E-7 &  
of 12" Pipe Req'd.~~ DELETED

~~Sta. 339 + 26, I-70, 128' Lt.  
STRUCTURE NO. 153  
Inlet Type E-7 &  
of 12" Pipe Req'd.~~ DELETED

Sta. 339 + 20, I-70, 120' Lt.  
STRUCTURE NO. 154  
Catch Basin Type E-7 &  
of 24" Pipe Req'd.

Sta. 340 + 17, & I-70  
STRUCTURE NO. 155  
of 6" F.B.C.P.C.S. Pipe Req'd.

Sta. 340 + 25, I-70, 64' Rt.  
STRUCTURE NO. 156  
Inlet Type D-6 &  
of 12" Pipe Req'd.

Sta. 339 + 82, I-70, 64' Lt.  
STRUCTURE NO. 157  
Inlet Type D-5 &  
of 12" Pipe Req'd.

Sta. 336 + 48, I-70, 52' Lt.  
STRUCTURE NO. 157A  
Inlet Type E-7 &  
of 12" Pipe Req'd.

Sta. 336 + 48, I-70, 39' Rt.  
STRUCTURE NO. 157B  
Inlet Type F-7 &  
of 12" Pipe Req'd.

Sta. 337 + 09, I-70, 52' Lt.  
STRUCTURE NO. 157C  
Inlet Type E-7 &  
of 12" Pipe Req'd.

Sta. 337 + 41, I-70, 39' Rt.  
STRUCTURE NO. 157D  
Inlet Type F-7 &  
of 12" Pipe Req'd.

Sta. 343 + 00, I-70, 66' Lt.  
STRUCTURE NO. 158  
Inlet Type S-14 &  
' of 12" Pipe Req'd.

Construct in Bridge Project I-70-3(69)77  
File I-70-77-2417

Construct in Project I-70-3(72)77

Sta. 335 + 33, 8N-W, 25' Lt.  
STRUCTURE NO. 685 \*  
Catch Basin Type A-w/I.S.D.  
Casting No. 3305, 4' of 12" Pipe Req'd.

Sta. 345 + 45, 8N-E, 24' Lt.  
STRUCTURE NO. 685A  
Remove Existing Manhole.

Sta. 331 + 26, 8N-W, 34' Rt.  
STRUCTURE NO. 686  
Remove Existing Inlet

Sta. 331 + 37, 8N-W, 22' Rt.  
STRUCTURE NO. 687  
Remove Existing Catch Basin

Sta. 331 + 45, 8N-W, 54' Rt.  
STRUCTURE NO. 688  
Remove Existing Inlet

Sta. 331 + 57, 8N-W, 54' Rt.  
STRUCTURE NO. 689  
Remove Existing Catch Basin

Sta. 331 + 70, 8N-W, 40' Rt.  
STRUCTURE NO. 690  
Remove Existing Manhole.

Sta. 331 + 94, 8E-N, 37' Lt.  
STRUCTURE NO. 691  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 15" Pipe Req'd.

Sta. 333 + 07, 8E-N, 51' Lt.  
STRUCTURE NO. 692  
Manhole Type E w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 48" Pipe Req'd.

Sta. 332 + 75, 8E-N, 38' Lt.  
STRUCTURE NO. 693  
Remove Existing Inlet

Sta. 332 + 48, 8E-N, 14' Lt.  
STRUCTURE NO. 694  
Remove Existing Catch Basin

Sta. 332 + 58, 8E-N, 13' Lt.  
STRUCTURE NO. 695  
Remove Existing Manhole

Sta. 332 + 69, 8E-N, 8' Rt.  
STRUCTURE NO. 696  
Remove Existing Inlet

Sta. 332 + 93, 8E-N, 20' Rt.  
STRUCTURE NO. 697  
Remove Existing Inlet

Sta. 333 + 07, 8E-N, 24' Rt.  
STRUCTURE NO. 698  
Remove Existing Catch Basin

Sta. 333 + 19, 8E-N, 20' Rt.  
STRUCTURE NO. 699  
Remove Existing Manhole

Sta. 333 + 34, 8E-N, 5' Pt.  
STRUCTURE NO. 700  
Remove Existing Inlet

Sta. 333 + 04, 8E-N, 24' Lt.  
STRUCTURE NO. 701  
Remove Existing Manhole

Sta. 335 + 05, 8N-W, 55' Lt.  
STRUCTURE NO. 684A  
Use Existing Manhole in Place

Construct in Bridge Project I-70-3(69)77  
File I-70-77-2417

Project I-70-3(69)77

Project I-70-3(69)77

Project I-70-3(69)77

Sta. 334 + 08, 8E-N, 74' Lt.  
STRUCTURE NO. 702  
Inlet Type A-3 &  
' of 12" Pipe Req'd.

Sta. 333 + 90, 8E-N, 95' Lt.  
STRUCTURE NO. 703  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.

Sta. 334 + 08, 8E-N, 93' Lt.  
STRUCTURE NO. 704  
Manhole Type E w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 48" Pipe Req'd.

Sta. 338 + 82, I-70, 35' Rt.  
STRUCTURE NO. 705  
Use Existing Manhole in Place.

Sta. 339 + 69, I-70, 123' Rt.  
STRUCTURE NO. 706  
Use Exist. Manhole in Place.

Sta. 339 + 08, I-70, 208' Rt.  
STRUCTURE NO. 707  
Use Existing Inlet in Place

Sta. 339 + 49, I-70, 223' Rt.  
STRUCTURE NO. 708  
Use Existing Manhole in Place

Sta. 339 + 90, I-70, 188' Rt.  
STRUCTURE NO. 709  
Use Existing Inlet in Place

**STRUCTURE NO. 710  
DELETED**

Sta. 342 + 41, I-70, 166' Rt.  
STRUCTURE NO. 711  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 24" Pipe Req'd.

Sta. 346 + 16, I-70, 128' Rt.  
STRUCTURE NO. 712  
Use Existing Manhole in Place &  
' of 24" Pipe Req'd.

Sta. 338 + 73, I-70, 200' Lt.  
STRUCTURE NO. 713  
Use Existing Manhole in Place

Sta. 338 + 90, I-70, 187' Lt.  
STRUCTURE NO. 714  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 18" Pipe Req'd.

Sta. 342 + 28, I-70, 169' Lt.  
STRUCTURE NO. 715  
Remove Existing Inlet

Sta. 342 + 17, I-70, 171' Lt.  
STRUCTURE NO. 716  
Remove Existing Manhole

Sta. 342 + 55, I-70, 175' Lt.  
STRUCTURE NO. 717  
Remove Existing Catch Basin

Sta. 342 + 62, I-70, 177' Lt.  
STRUCTURE NO. 718  
Remove Existing Manhole

I-70-3(69)77

Sta. 342 + 41, I-70, 180' Lt.  
STRUCTURE NO. 719  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
of 18" Pipe Req'd.

Sta. 342 + 41, I-70, 90' Lt.  
STRUCTURE NO. 720  
Remove Existing Manhole

Sta. 346 + 15, I-70, 143' Lt.  
STRUCTURE NO. 721  
Use Existing Manhole in Place.

Sta. 346 + 15, I-70, 135' Lt.  
STRUCTURE NO. 722 \*  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
300' of 18" Pipe Req'd.  
Connect to Str. No. 722A

Sta. 346 + 00, I-70, 115' Rt.  
STRUCTURE NO. 723  
Remove Existing Catch Basin

Sta. 345 + 91, I-70, 115' Rt.  
STRUCTURE NO. 724  
Remove Existing Manhole

Sta. 346 + 30, I-70, 110' Rt.  
STRUCTURE NO. 725  
Remove Existing Catch Basin

Sta. 348 + 02, I-70, 110' Lt.  
STRUCTURE NO. 726 \*  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
189' of 15" Pipe Req'd.

Sta. 349 + 90, I-70, 112' Lt.  
STRUCTURE NO. 727 \*  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
186' of 15" Pipe Req'd.

Sta. 349 + 73, I-70, 93' Lt.  
STRUCTURE NO. 728  
Remove Existing Catch Basin

Sta. 349 + 77, I-70, 91' Lt.  
STRUCTURE NO. 729  
Remove Existing Inlet

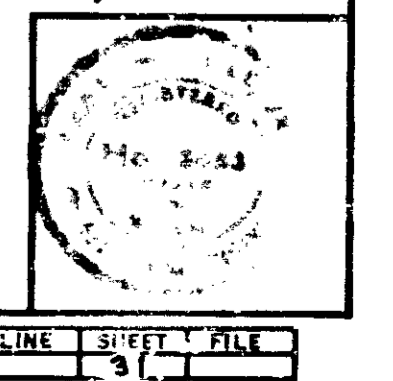
Sta. 349 + 90, I-70, 92' Lt.  
STRUCTURE NO. 730  
Remove Existing Manhole

Sta. 350 + 09, I-70, 90' Lt.  
STRUCTURE NO. 731  
Remove Existing Inlet

Sta. 350 + 03, I-70, 90' Lt.  
STRUCTURE NO. 732  
Remove Existing Catch Basin

Sta. 15 + 00, East St.  
STRUCTURE NO. 733  
Spec. Junction Box w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 24" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)III.

Sta. 349 + 92, I-70, 115' Lt.  
STRUCTURE NO. 734  
Spec. Junction Box w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 24" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)III.



\* TO BE BUILT

# STORM DRAINAGE

# INDIANAPOLIS SANITARY DISTRICT FACILITIES

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3 (71)77	197	32	139

Sta. 343 + 00, E I-70  
STRUCTURE NO. 159  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 343 + 00, I-70, Rt.  
STRUCTURE NO. 160  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 346 + 00, I-70, Lt.  
STRUCTURE NO. 161  
Inlet Type 5-14 &  
' of 12" Pipe Req'd.

Sta. 346 + 00, E I-70  
STRUCTURE NO. 162  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 346 + 00,  
STRUCTURE NO. 163  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 339 + 78 - 343 + 26, I-70  
STRUCTURE NO. 164 A  
' of 90" Pipe Req'd.  
Construct in Bridge  
Project I-70-3(69)77.  
File I-70-77-2417

Sta. 346 + 70, I-70  
STRUCTURE NO. 164  
Manhole Type G-4 &  
340' of 90" Pipe Req'd.  
Class "B" Bedding

Sta. 349 + 00, I-70, Lt.  
STRUCTURE NO. 165  
Inlet Type 5-14 &  
' of 12" Pipe Req'd.

Sta. 349 + 00, E I-70  
STRUCTURE NO. 166  
Inlet Type T-14 &  
' of 12" Pipe Req'd.

Sta. 349 + 00, I-70, Rt.  
STRUCTURE NO. 167  
Catch Basin Type 5-14 &  
' of 12" Pipe Req'd.

Sta. 350 + 25, I-70, Rt.  
STRUCTURE NO. 168  
Catch Basin Type 5-14 &  
' of 18" Pipe Req'd.

Sta. 350 + 75, I-70, Lt.  
STRUCTURE NO. 169  
Inlet Type 5-14 &  
' of 12" Pipe Req'd.

Sta. 351 + 25, I-70, Rt.  
STRUCTURE NO. 170  
Catch Basin Type 5-14 &  
' of 12" Pipe Req'd.

Sta. 352 + 25, I-70  
STRUCTURE NO. 171  
1-18" x 18" x 12" Tee Req'd for C.B.  
to be Constr. in I Proj. 65-3(106)111

Sta. 352 + 61, 7W-5, Rt.  
STRUCTURE NO. 172  
Manhole Type G-4 &  
636' of 90" Pipe Req'd.  
Class "B" Bedding

Construct in  
Project I-70-3(72)77

Construct in  
Project I-70-3(72)77

Sta. 13 + 17, New Jersey St.  
STRUCTURE NO. 735  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 15, New Jersey St.  
STRUCTURE NO. 736  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 24" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 12, New Jersey St.  
STRUCTURE NO. 737  
Use Existing Catch Basin &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 00, New Jersey St.  
STRUCTURE NO. 738  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 12, New Jersey St.  
STRUCTURE NO. 739  
Use Existing Inlet &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

15' South of Morris St.  
STRUCTURE NO. 740  
Manhole Type C w/I.S.D.  
Cast. No. R-1772-CVH &  
' of 24" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

New Jersey & Morris Sts.  
STRUCTURE NO. 741  
Use Existing Manhole in Place  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 11 + 60, East St.  
STRUCTURE NO. 742  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 11 + 52, East St.  
STRUCTURE NO. 743  
Use Existing Manhole in Place  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 11 + 45, East St.  
STRUCTURE NO. 744  
Use Existing Manhole in Place  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 11 + 60, East St.  
STRUCTURE NO. 745  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 12 + 84, East St.  
STRUCTURE NO. 746  
Remove Existing Inlet  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 13 + 09, East St.  
STRUCTURE NO. 747  
Remove Existing Inlet  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 13 + 27, East St.  
STRUCTURE NO. 748  
Remove Existing Inlet  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 14 + 42, East St.  
STRUCTURE NO. 749  
Remove Existing Manhole  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 14 + 42, East St.  
STRUCTURE NO. 750  
Remove Existing Catch Basin  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 60, East St.  
STRUCTURE NO. 751  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 15 + 72, East St.  
STRUCTURE NO. 752  
Remove Existing Inlet  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 16 + 00, East St.  
STRUCTURE NO. 753  
Remove Existing Inlet  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 16 + 14, East St.  
STRUCTURE NO. 754  
Remove Existing Catch Basin  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 0 + 50, Buchanan St.  
STRUCTURE NO. 755  
Inlet Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 0 + 50, Buchanan St.  
STRUCTURE NO. 756  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 16 + 70, East St.  
STRUCTURE NO. 757  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 16 + 79, East St.  
STRUCTURE NO. 758  
Catch Basin Type A-3 &  
' of 12" Pipe Req'd.  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 16 + 79, East St.  
STRUCTURE NO. 759  
Manhole Type D w/I.S.D.  
Cast. No. R-1772-CVH  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 17 + 32, East St.  
STRUCTURE NO. 760  
Use Existing Manhole  
Construct in Bridge  
Project I-65-3(107)111.

Sta. 346 + 25, I-70  
STRUCTURE NO. 722 A \*  
Std. Catch Basin Type A w/I.S.D.  
Casting No. 3305 & 10' of 12"  
Pipe Req'd.

Sta. 346 + 03, I-70  
STRUCTURE NO. 722 B \*  
Std. Inlet Type A w/I.S.D.  
Casting No. 3305 & 20' of 12"  
Pipe Req'd.

Sta. 349 + 80, I-70  
STRUCTURE NO. 727 A \*  
Std. Catch Basin Type A w/I.S.D.  
Casting No. 3305 & 10' of 12"  
Pipe Req'd.

Sta. 350 + 00, I-70  
STRUCTURE NO. 727 B \*  
Std. Inlet Type A w/I.S.D.  
Casting No. 3305 & 20' of 12"  
Pipe Req'd.

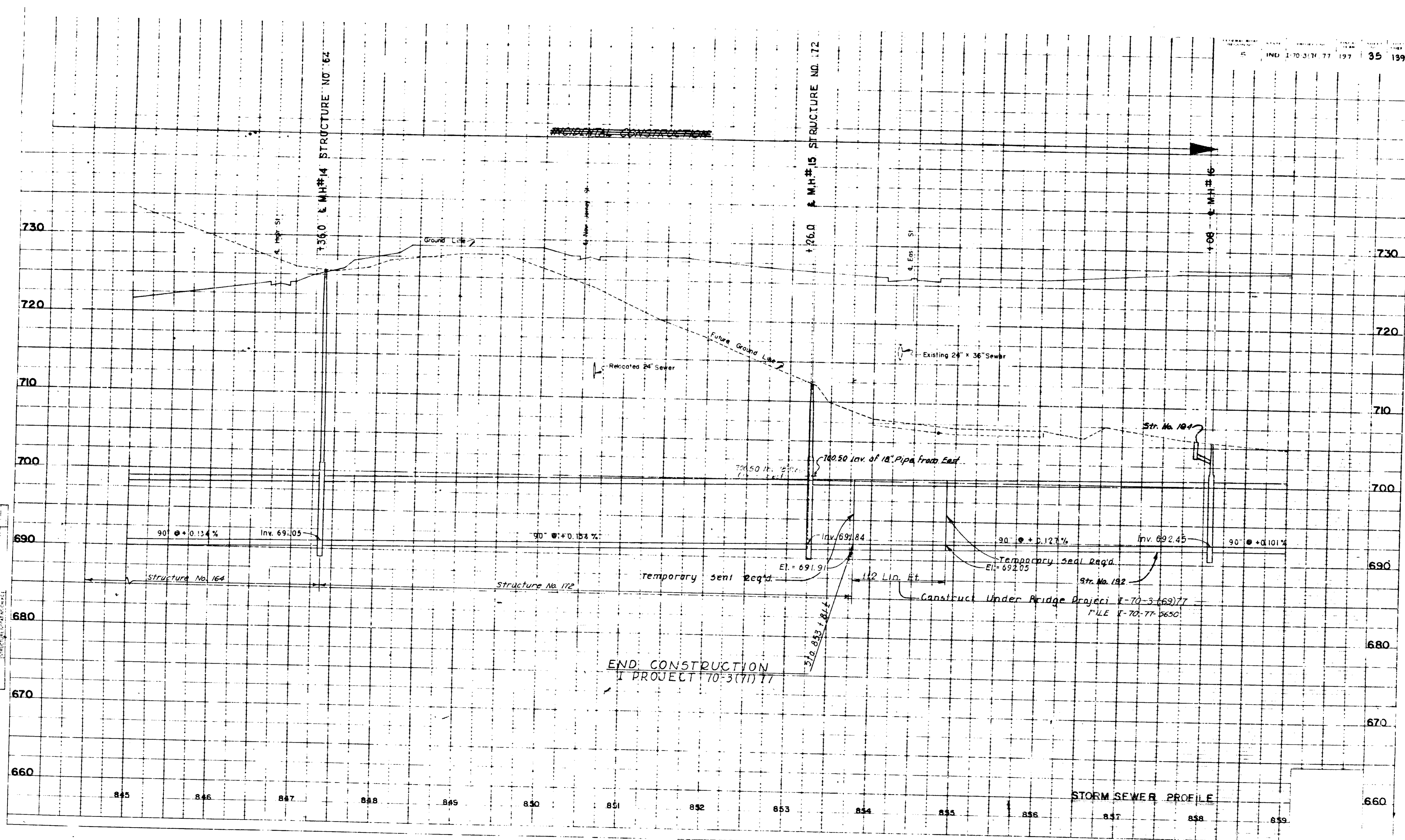
\* TO BE BUILT





**STORM SEWER PROFILE**

~~FOR INFORMATION ONLY~~

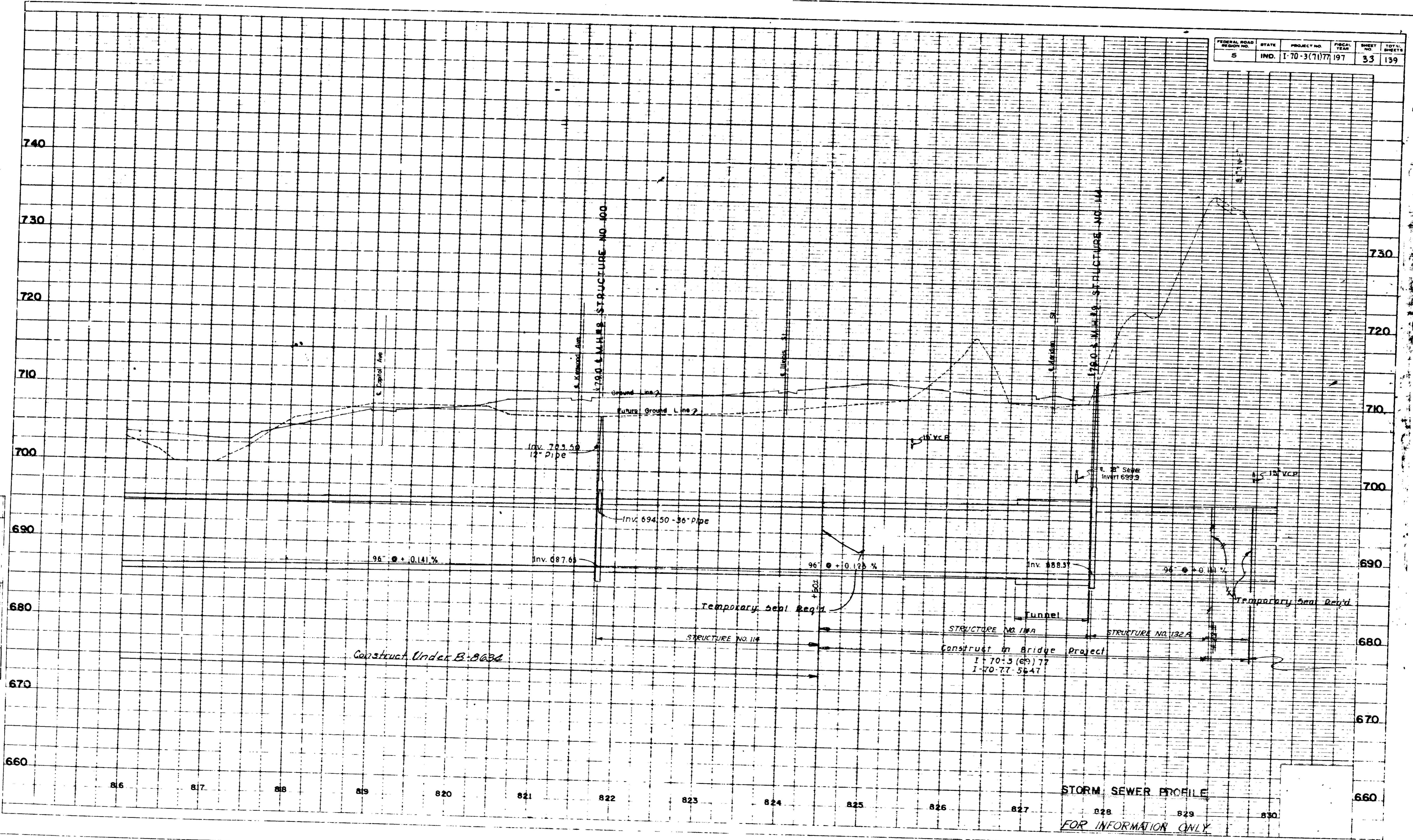


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 DATE: [ ]  
 DRAWN BY: [ ]  
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 [ ]  
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END CONSTRUCTION  
 PROJECT 70-3(7) 77

STORM SEWER PROFILE

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(1)77	197	33	139



PROFILE SURVEYED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 DRAWN BY \_\_\_\_\_ DATE \_\_\_\_\_  
 IN CHARGE BY \_\_\_\_\_ DATE \_\_\_\_\_  
 NOTE: SEE PLAN FOR STRUCTURE LOCATIONS.

**STORM SEWER PROFILE**  
 FOR INFORMATION ONLY

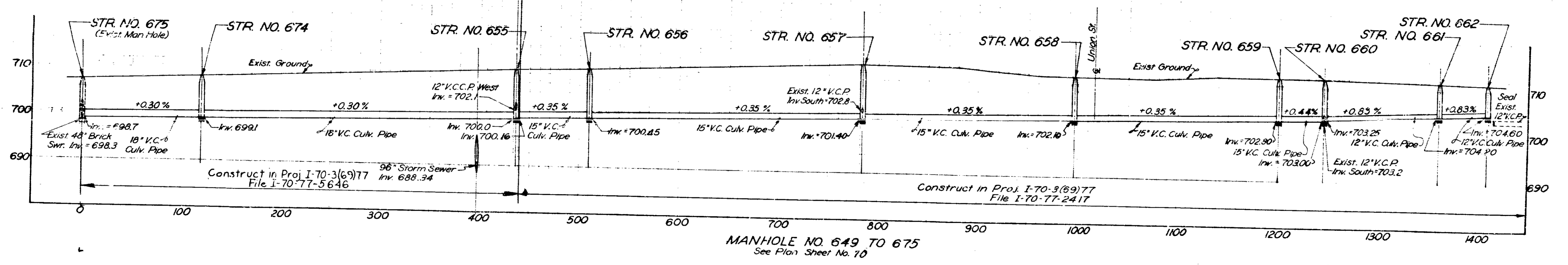
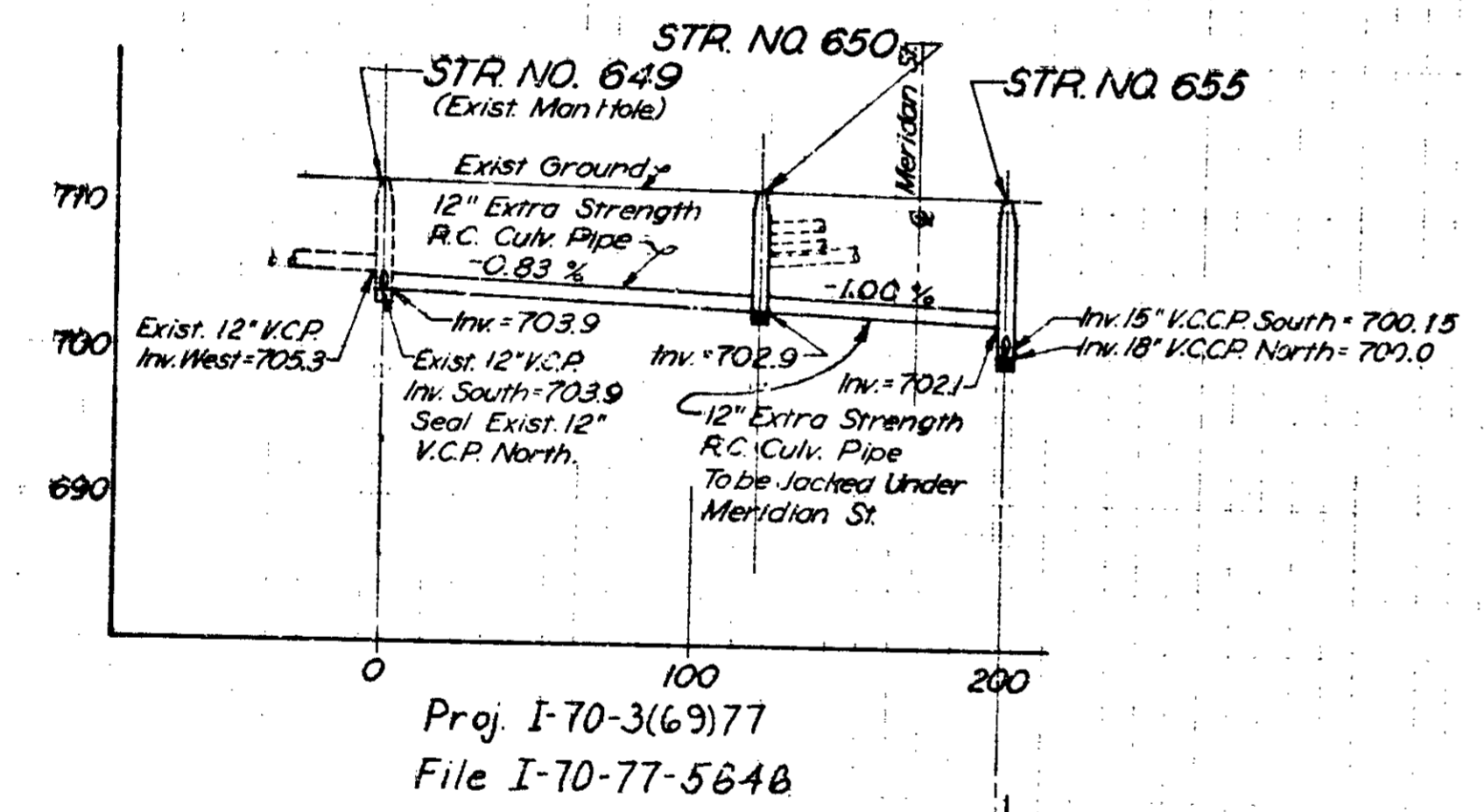
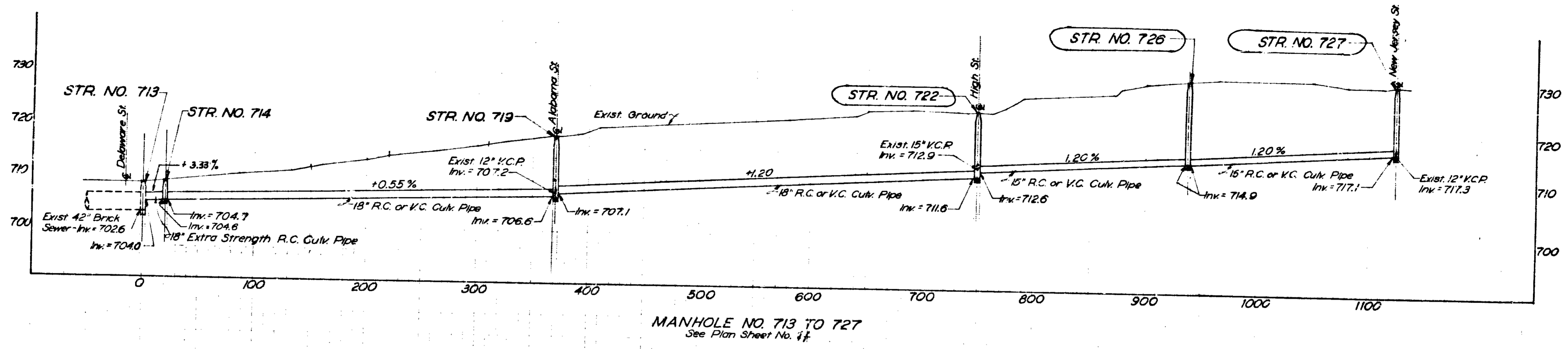
PROJECT NO.	SHEET NO.	TOTAL SHEETS
I-70-3(1)77	33	139

CROSS SECTIONS  
Scale 1 inch = 5 feet  
CUT      FILL



Drawing  
Not  
Legible



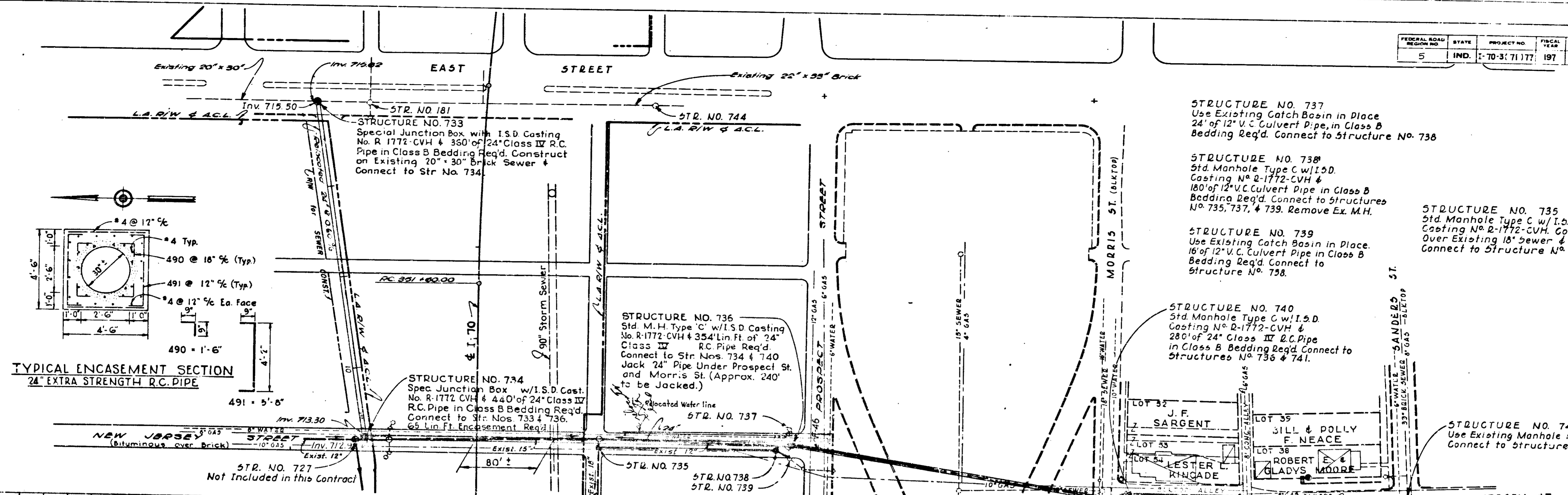


To be Built ○

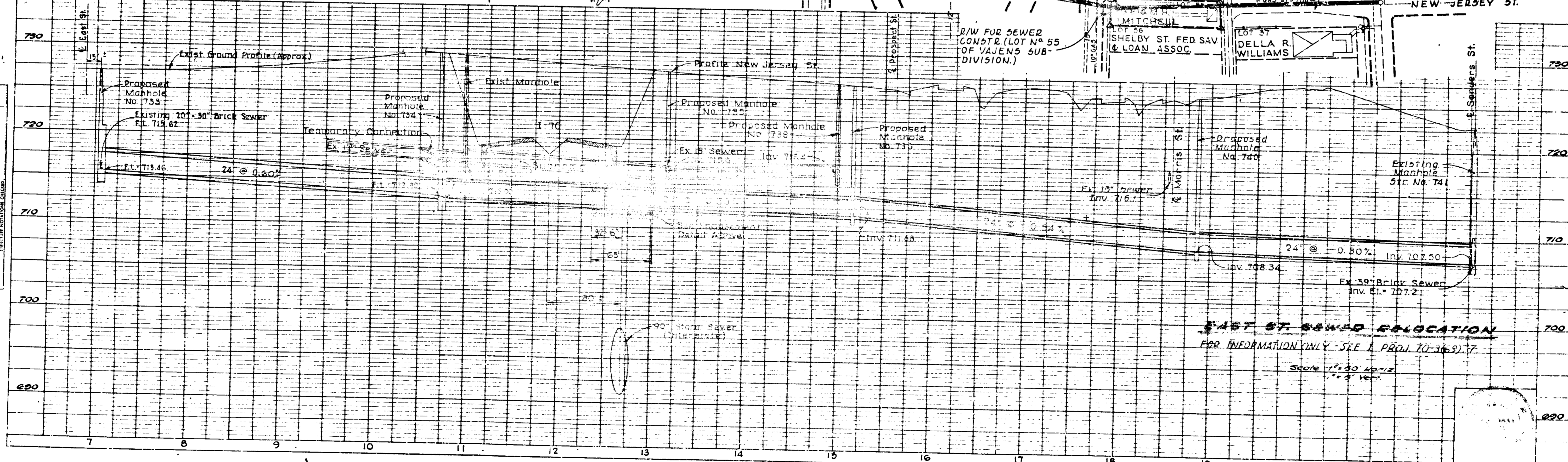
SANITARY SEWER PROFILES



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(71)77	197	38	139



- STRUCTURE NO. 737**  
Use Existing Catch Basin in Place  
24' of 12" V.C. Culvert Pipe, in Class B  
Bedding Req'd. Connect to Structure No. 738
- STRUCTURE NO. 738**  
Std. Manhole Type C w/I.S.D.  
Casting No. R-1772-CVH &  
180' of 12" V.C. Culvert Pipe in Class B  
Bedding Req'd. Connect to Structures  
No. 735, 737, & 739. Remove Ex. M.H.
- STRUCTURE NO. 739**  
Use Existing Catch Basin in Place.  
16' of 12" V.C. Culvert Pipe in Class B  
Bedding Req'd. Connect to  
Structure No. 738.
- STRUCTURE NO. 735**  
Std. Manhole Type C w/I.S.D.  
Casting No. R-1772-CVH. Construct  
Over Existing 18" Sewer &  
Connect to Structure No. 733.
- STRUCTURE NO. 740**  
Std. Manhole Type C w/I.S.D.  
Casting No. R-1772-CVH &  
280' of 24" Class III R.C. Pipe  
in Class B Bedding Req'd. Connect to  
Structures No. 736 & 741.
- STRUCTURE NO. 741**  
Use Existing Manhole in Place.  
Connect to Structure No. 740.



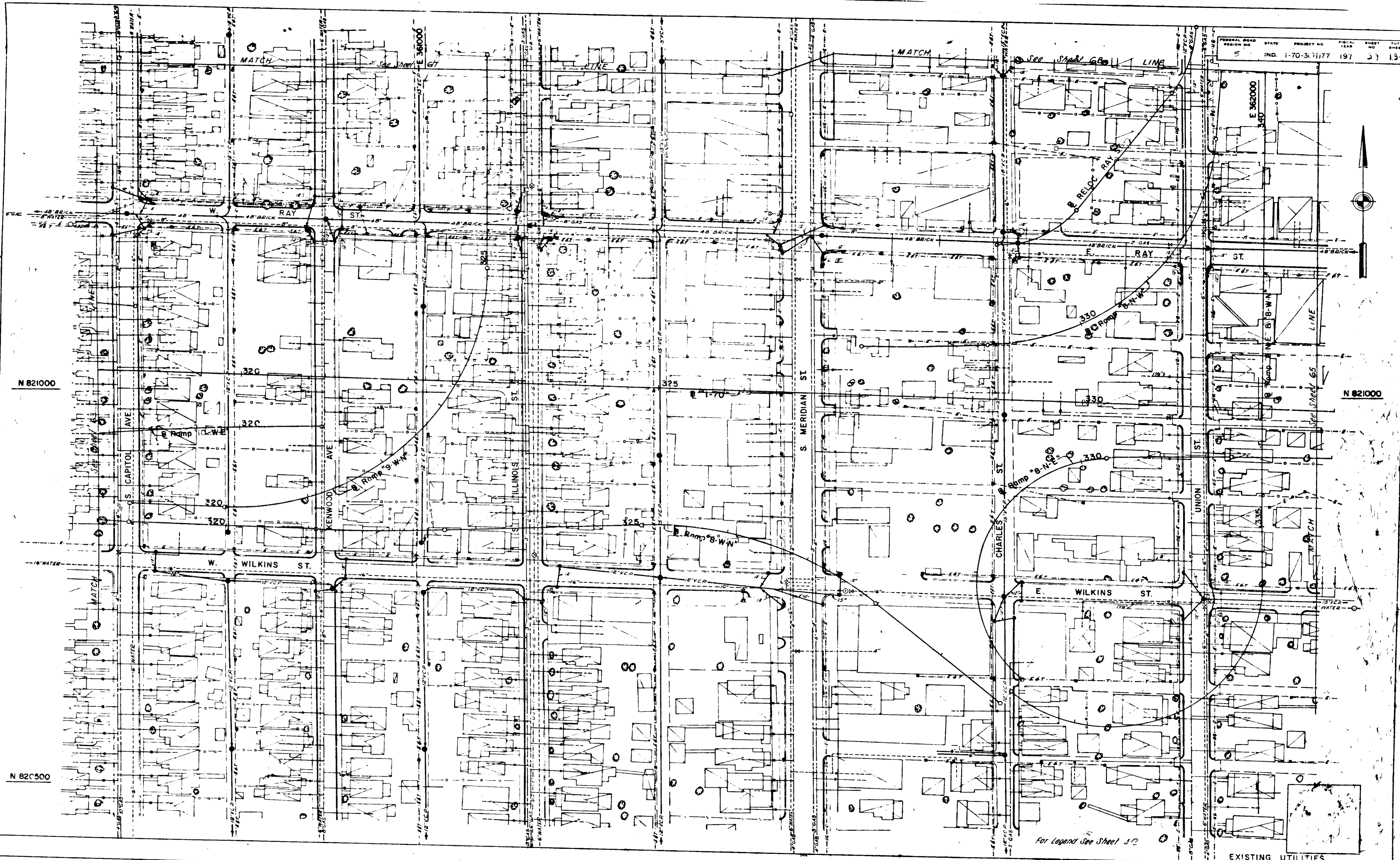
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REVISIONS: [ ]

**PROFILE**  
BY: [ ] DATE: [ ]  
NOTE BOOK NO. [ ]  
REVISIONS: [ ]

PROJECT NO.	SHEET NO.	TOTAL SHEETS
I-70-3(71)77	38	139

PLAN  
 DRAWN BY  
 CHECKED BY  
 DATE  
 1-70-31177

FEDERAL ROAD DISTRICT NO. 5 STATE INDIANA PROJECT NO. 1-70-31177 FISCAL YEAR 197 SHEET NO. 37 TOTAL SHEETS 134



N 821000

N 821000

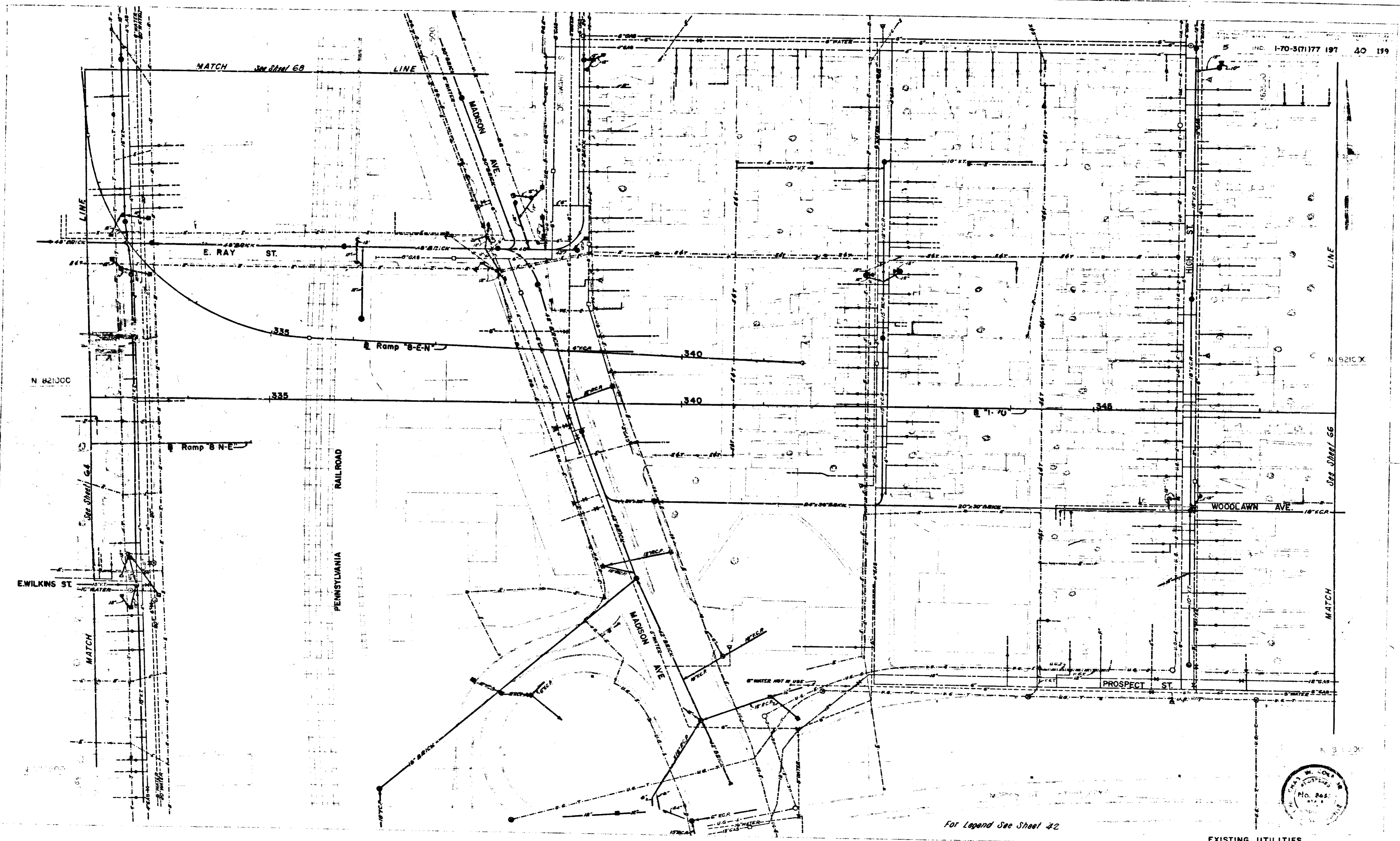
N 820500

EXISTING UTILITIES

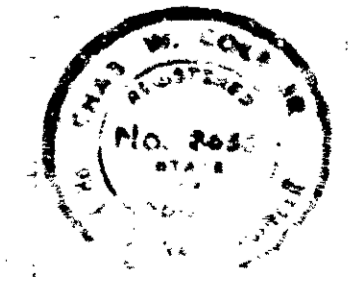
PROJECT NO. 1-70-31177 SHEET NO. 37 TOTAL SHEETS 134

For Legend See Sheet 42

PLAN  
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BY: [illegible]



5 INC. 1-70-3(1)77 197 40 139



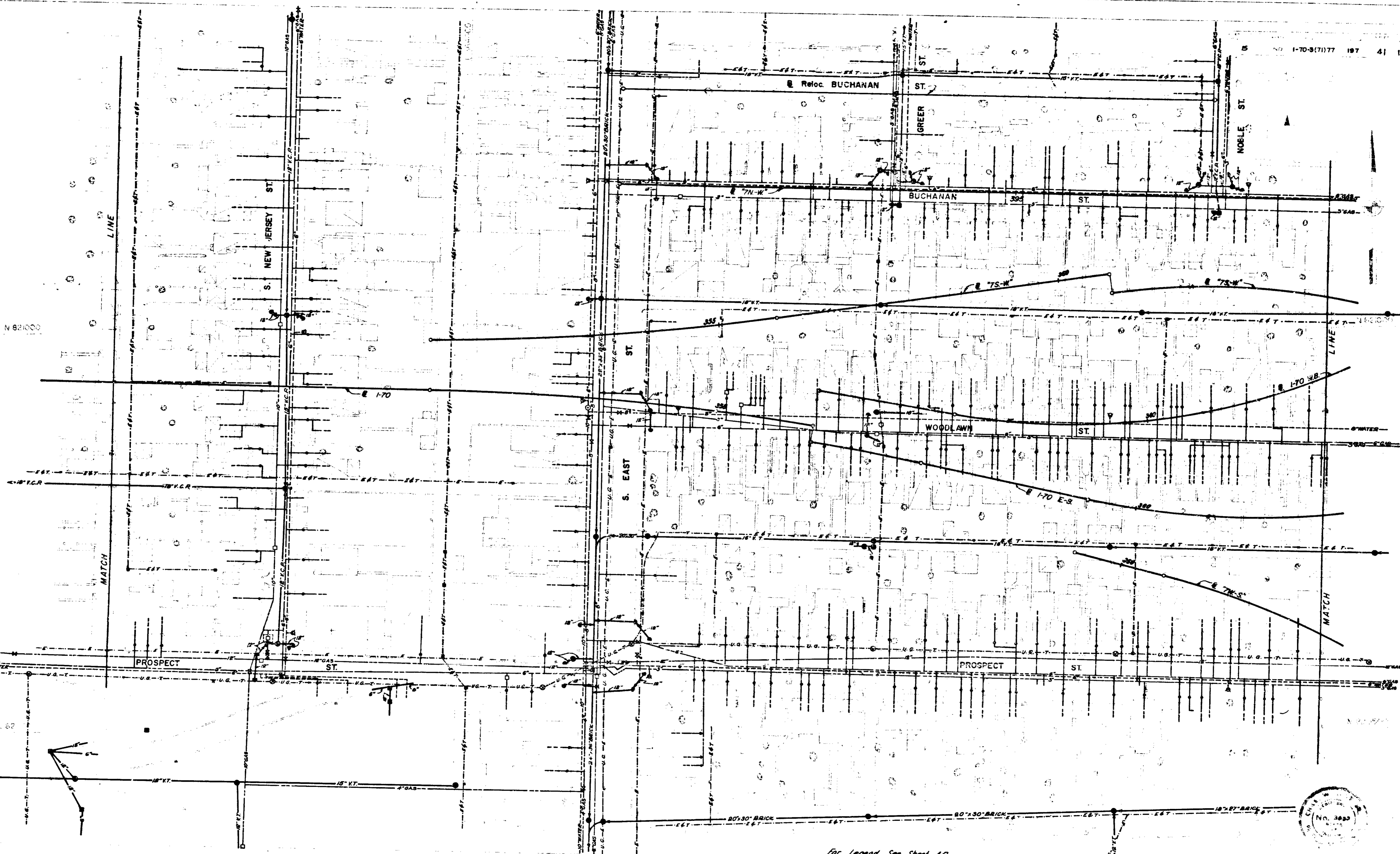
For Legend See Sheet 42

EXISTING UTILITIES

1-70-3(1)77 40 139

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PLAN  
DATE: 10/1/77  
BY: J.P. [unclear]  
CHECKED: [unclear]  
SCALE: 1" = 40'



N 821000

LINE

MATCH

PROSPECT ST

S. NEW JERSEY ST

S. EAST ST

Reloc. BUCHANAN ST

GREER ST

BUCHANAN ST

WOODLAWN ST

NOELIE ST

PROSPECT ST

MATCH



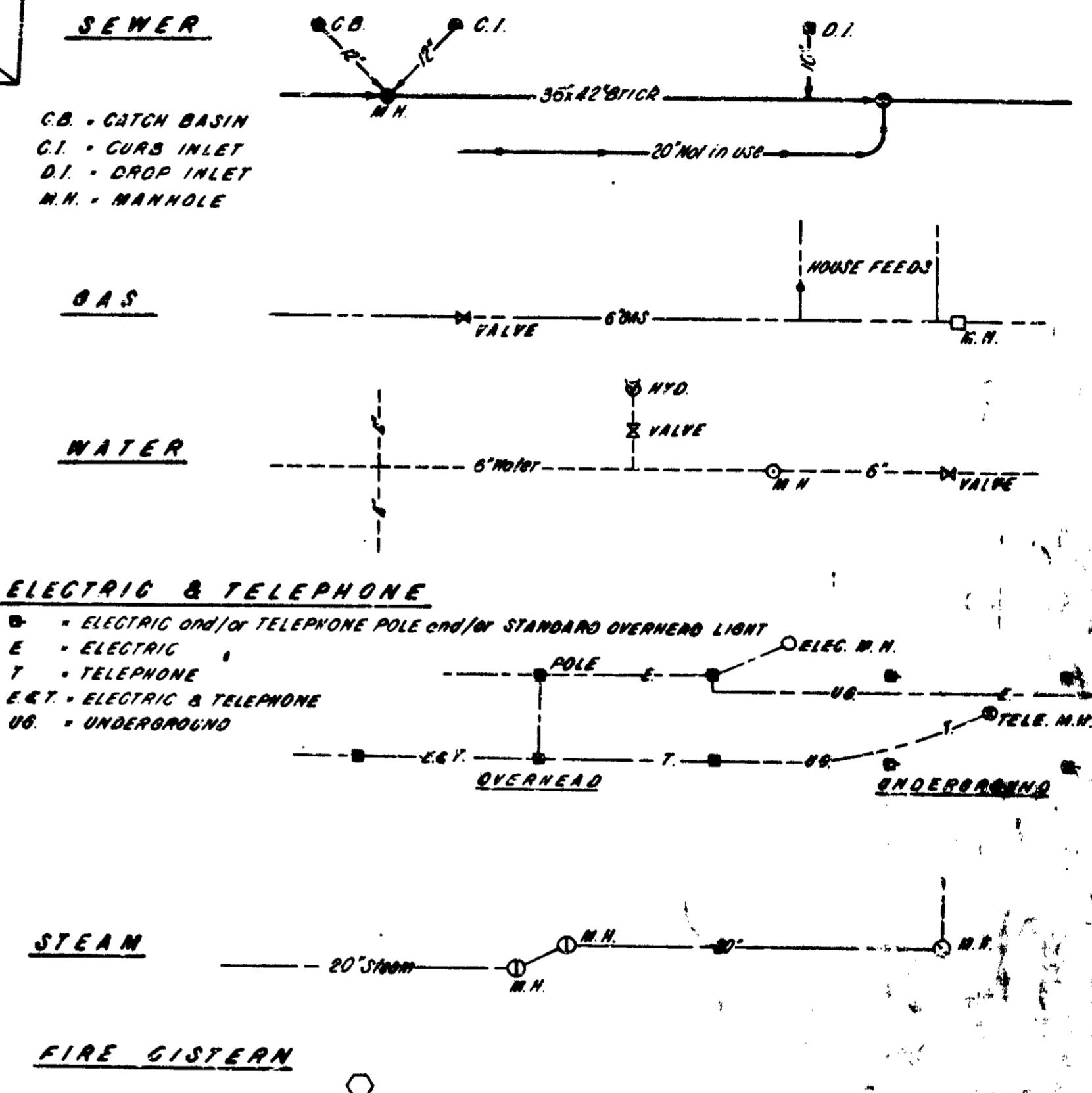
For Legend See Sheet 42

EXISTING UTILITIES

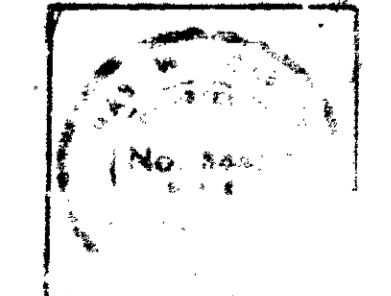
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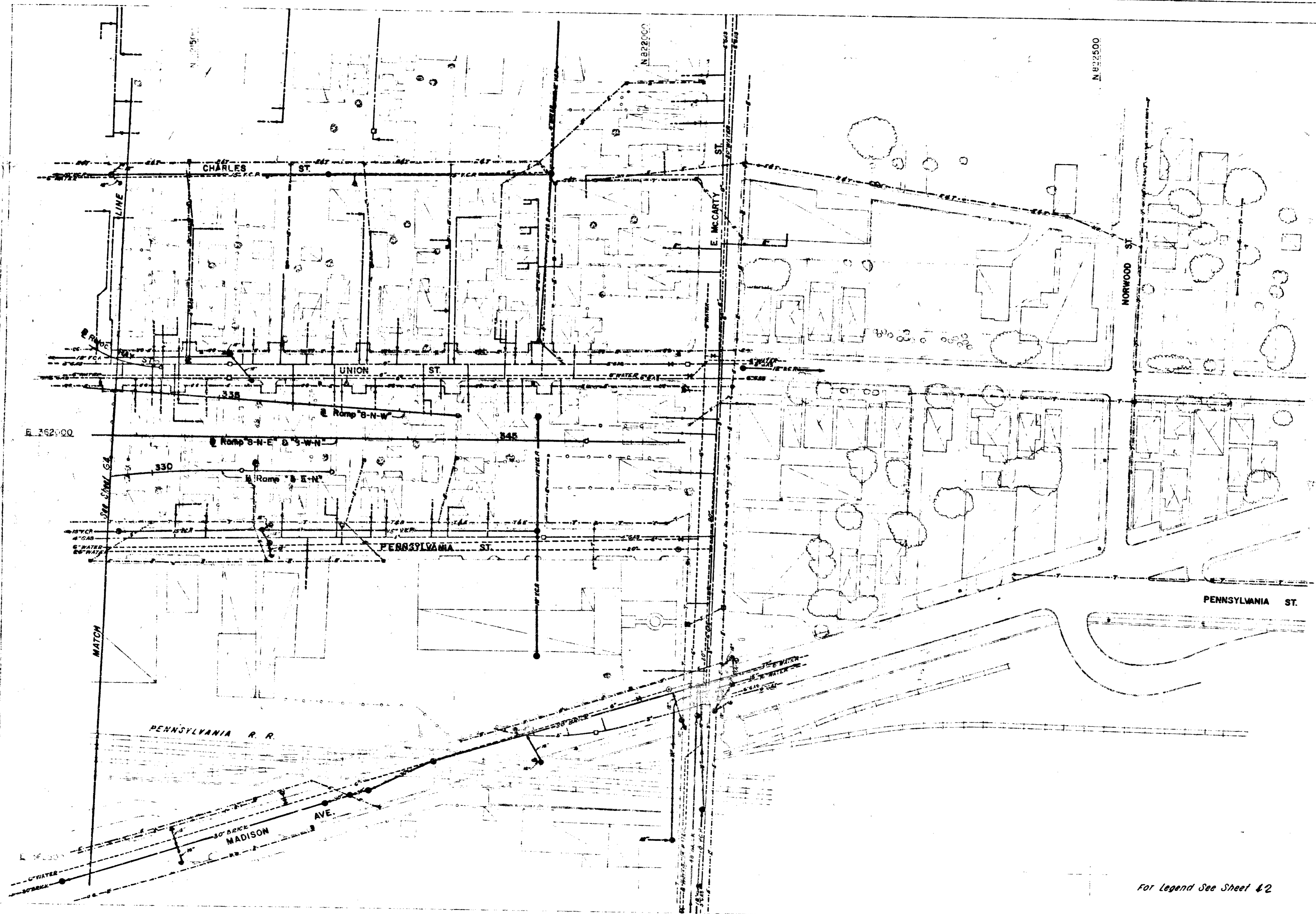
**LEGEND**



PLAN  
 SHOWING  
 UTILITIES  
 PLANNED  
 FOR  
 THE  
 PROJECT  
 AND  
 THE  
 LOCATION  
 OF  
 THE  
 SAME  
 IN  
 RELATION  
 TO  
 THE  
 SURROUNDING  
 AREAS

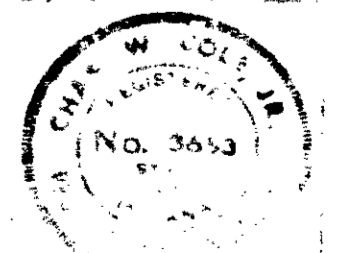


EXISTING UTILITIES



PLAN  
Scale: Minimum 1/8" = 1'-0"  
DATE: 1-70-3(7)177  
SHEET: 43 OF 139

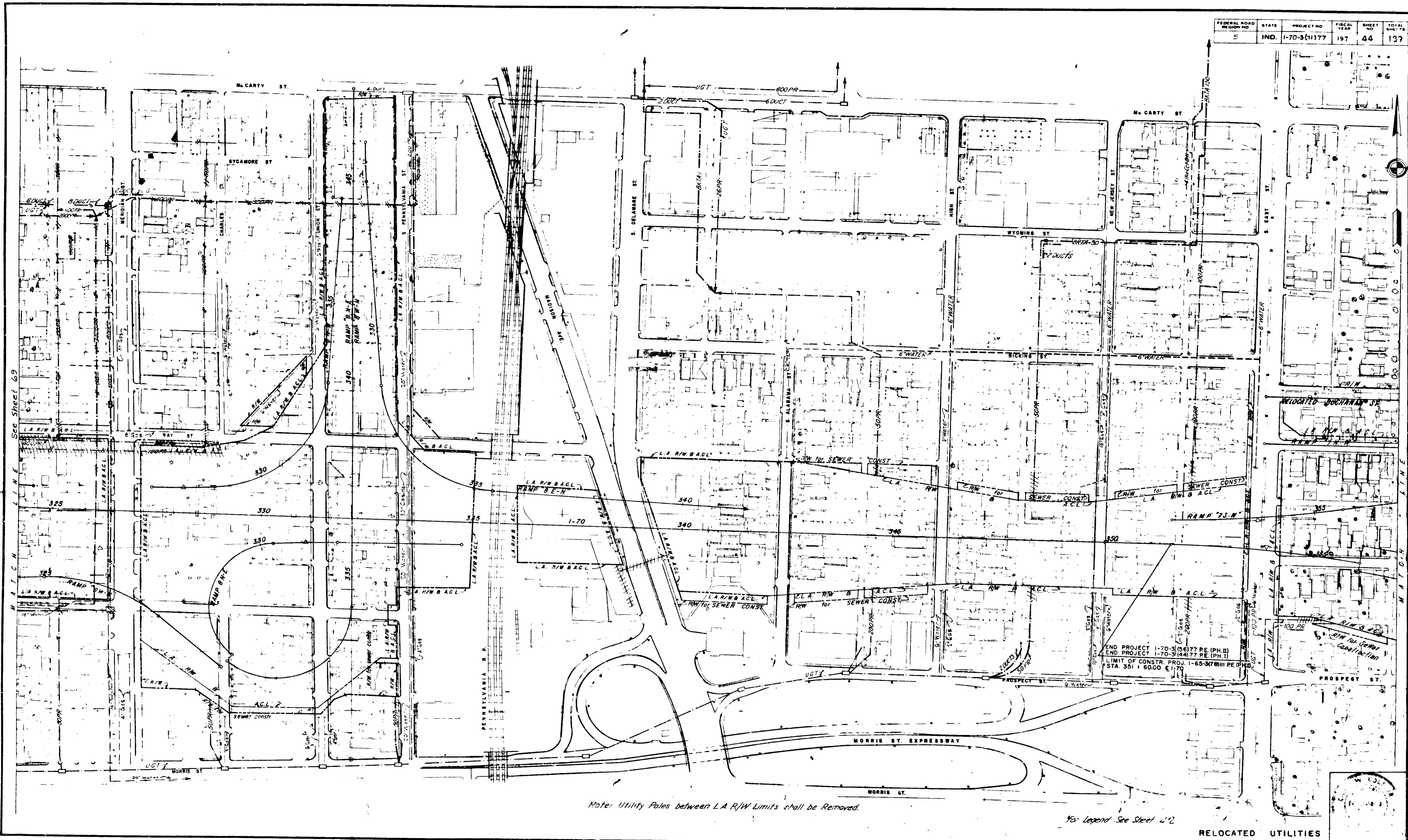
For Legend See Sheet 42



EXISTING UTILITIES

*Handwritten signature and date: Cole 3-24*

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(1177)	197	44	139



See Sheet 69

END PROJECT 1-70-3(56177) PE (PH. II)  
 END PROJECT 1-70-3(4477) PE (PH. II)  
 LIMIT OF CONSTR. PROJ. 1-65-3(7011) PE (PH. II)  
 STA. 351 + 60.00 @ 1-70

Note: Utility Poles between L.A. R/W Limits shall be Removed.

For Legend See Sheet 42

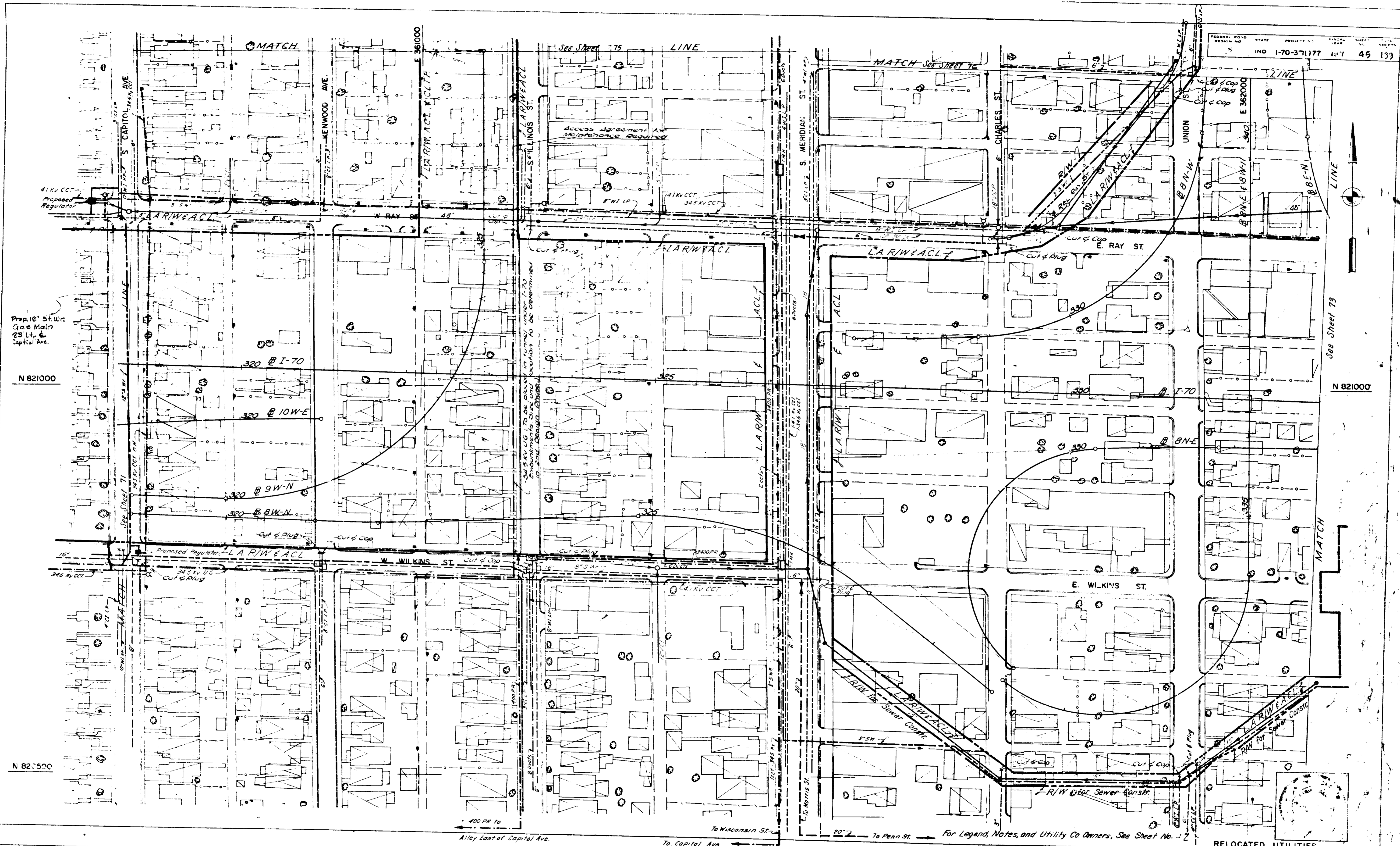
RELOCATED UTILITIES

November 6, 1964

PROJECT NO.	SHEET NO.	TOTAL SHEETS
1-70-3(1177)	44	139



PLAN  
 DRAWN BY: [unclear]  
 CHECKED BY: [unclear]  
 DATE: [unclear]



N 821000

N 821000

N 821500

RELOCATED UTILITIES

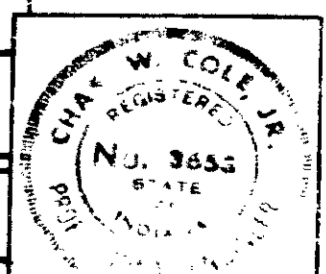
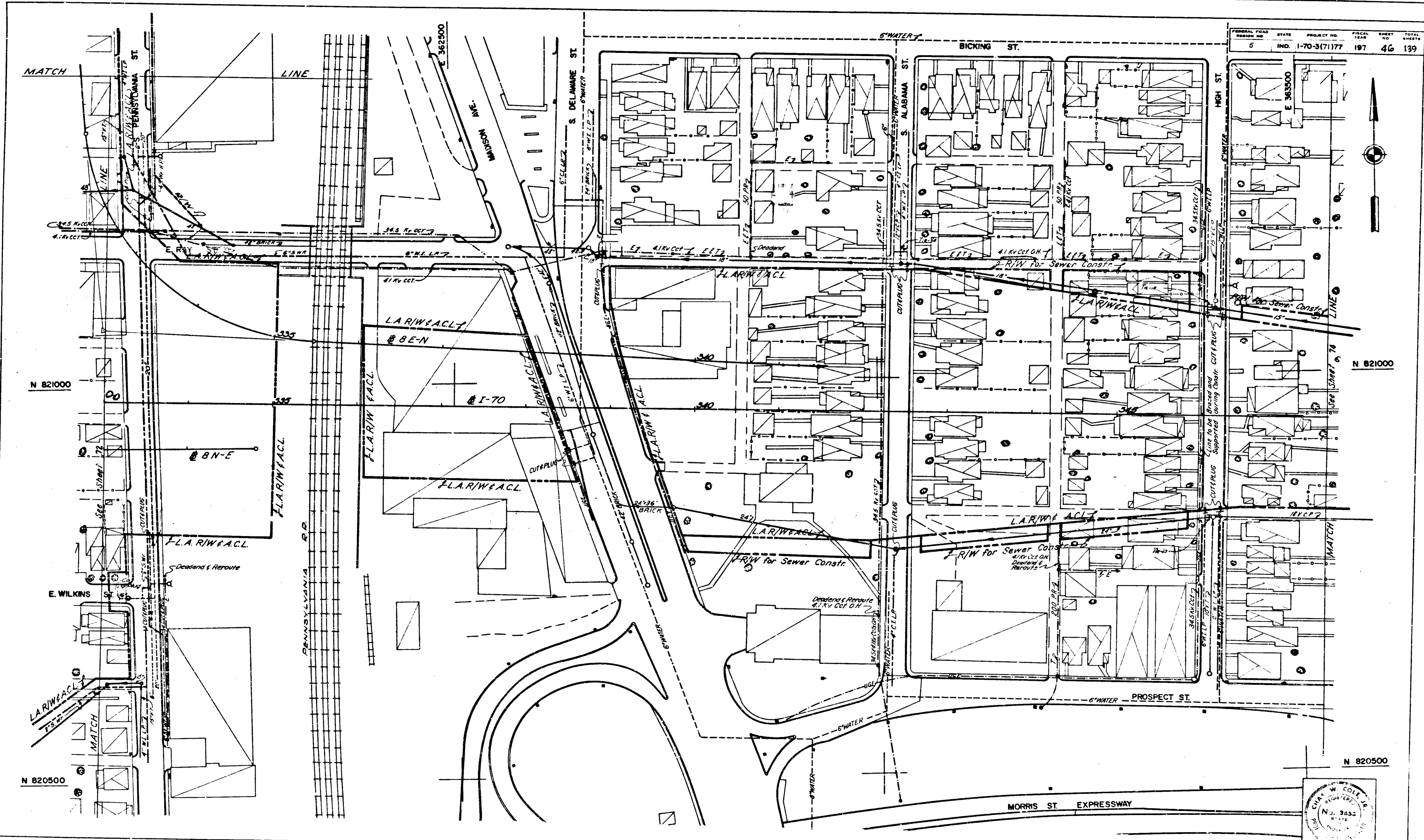
PROJECT NO.	LINE	SHEET	TOTAL SHEETS
1-70-31(1)77	45	133	

For Legend, Notes, and Utility Co Owners, See Sheet No. 12

Alley East of Capitol Ave To Wisconsin St To Capitol Ave

To Morris St To Penn St

PLAN  
 DRAWN BY  
 CHECKED BY  
 DATE  
 NOTE BOOK ALIGNMENT CHECKED  
 NO. OF WAY CHECKED



For Legend, Notes and Utility Co. Owners, See Sheet No. 4B RELOCATED UTILITIES

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
1-70-3(7)177		46	139	

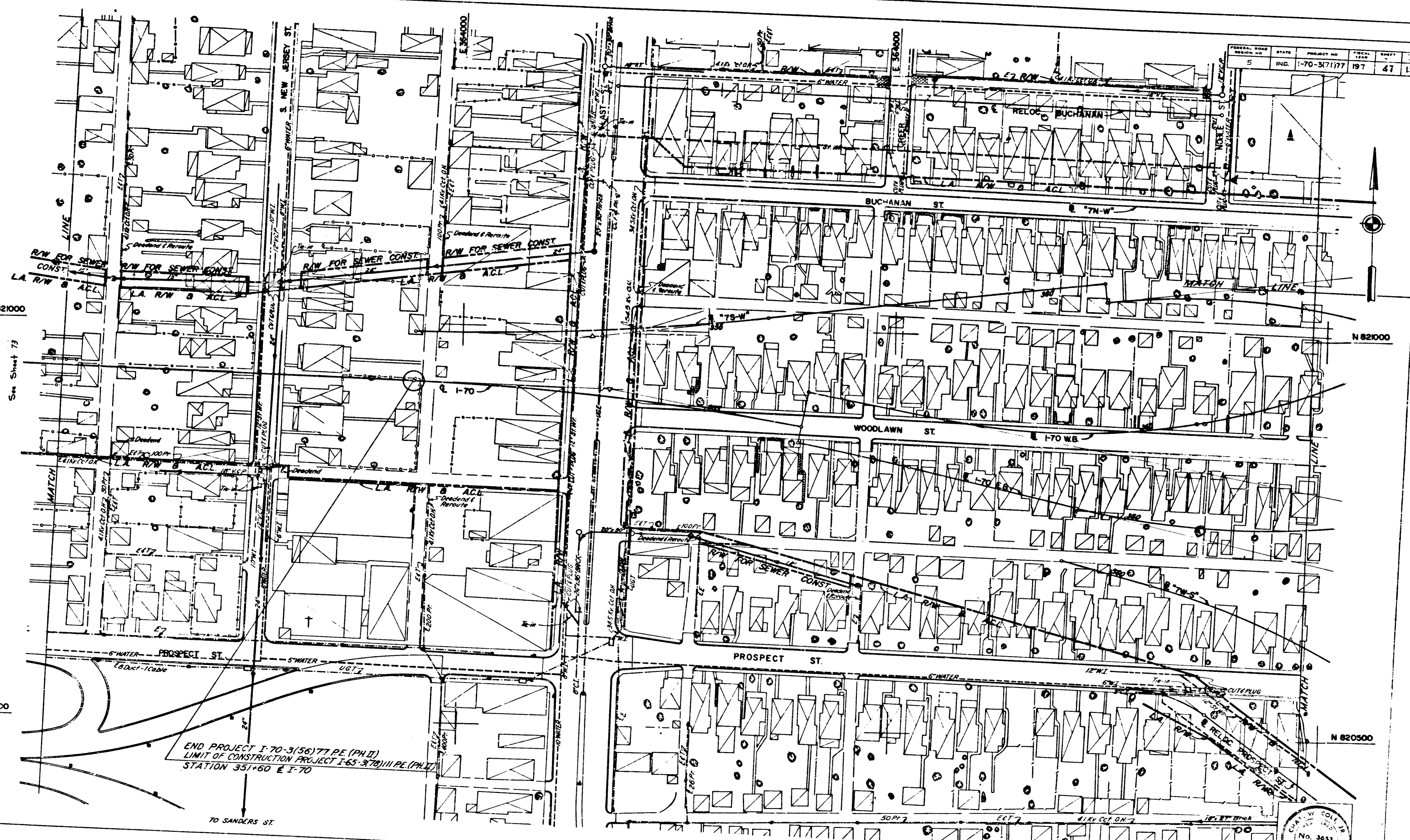
N 821000

N 821000

N 820500

N 820500

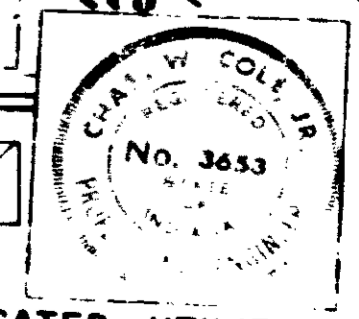
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(7)177	197	47	139



END PROJECT I-70-3(56)77 PE (PH II)  
 LIMIT OF CONSTRUCTION PROJECT I-65-3(7)111 PE (PH II)  
 STATION 351+60 ± I-70

TO SANDERS ST.

For Legend, Notes, and Utility Co Owners, See Sheet No. 48



RELOCATED UTILITIES

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	DATE
I-70-3(7)177		47	139	

PLAN SURVEYED, PLOTTED, AND CHECKED BY: [Signature]

N 821000  
 See Sheet 73

N 826500

N 821000

N 820500



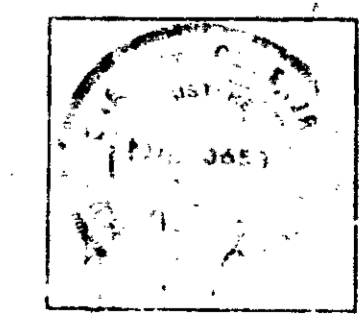
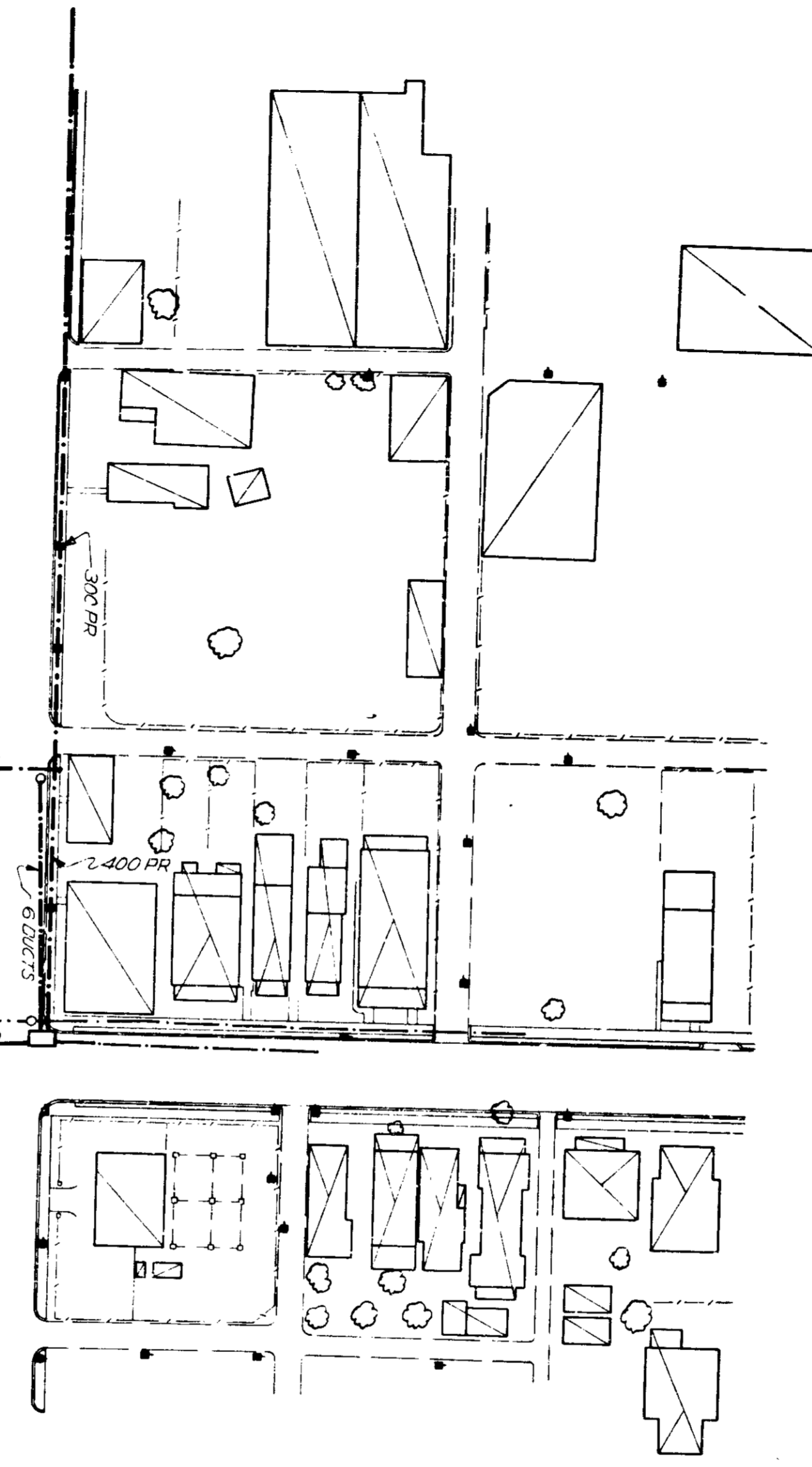
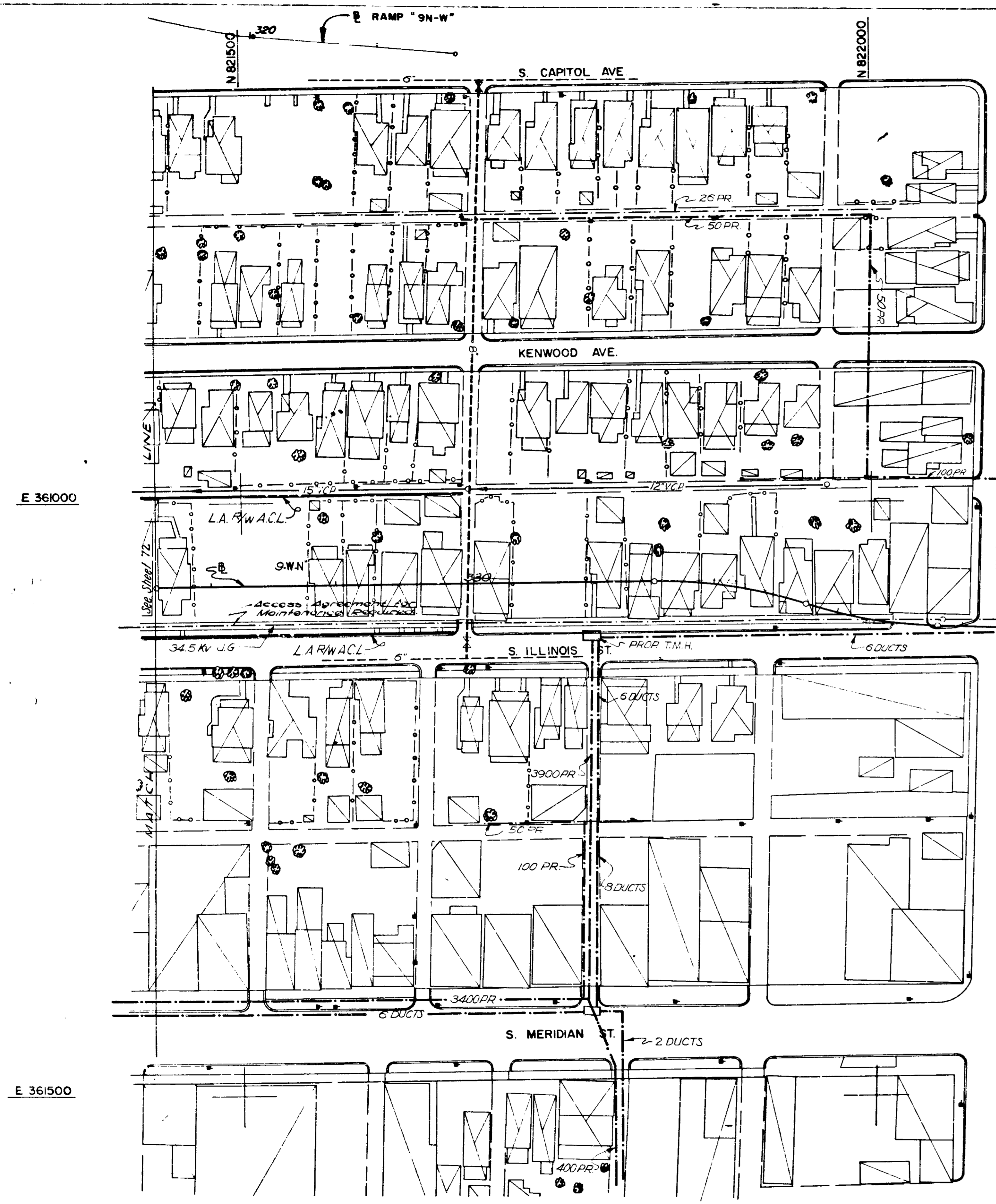
**LEGEND**

UTILITY	EXISTING UTILITY	RELOCATED UTILITY
WATER	_____	_____
TELEPHONE	_____	_____
ELECTRIC	_____	_____
GAS	_____	_____
STEAM	_____	_____
SANITARY	_____	_____
SEWER	_____	_____

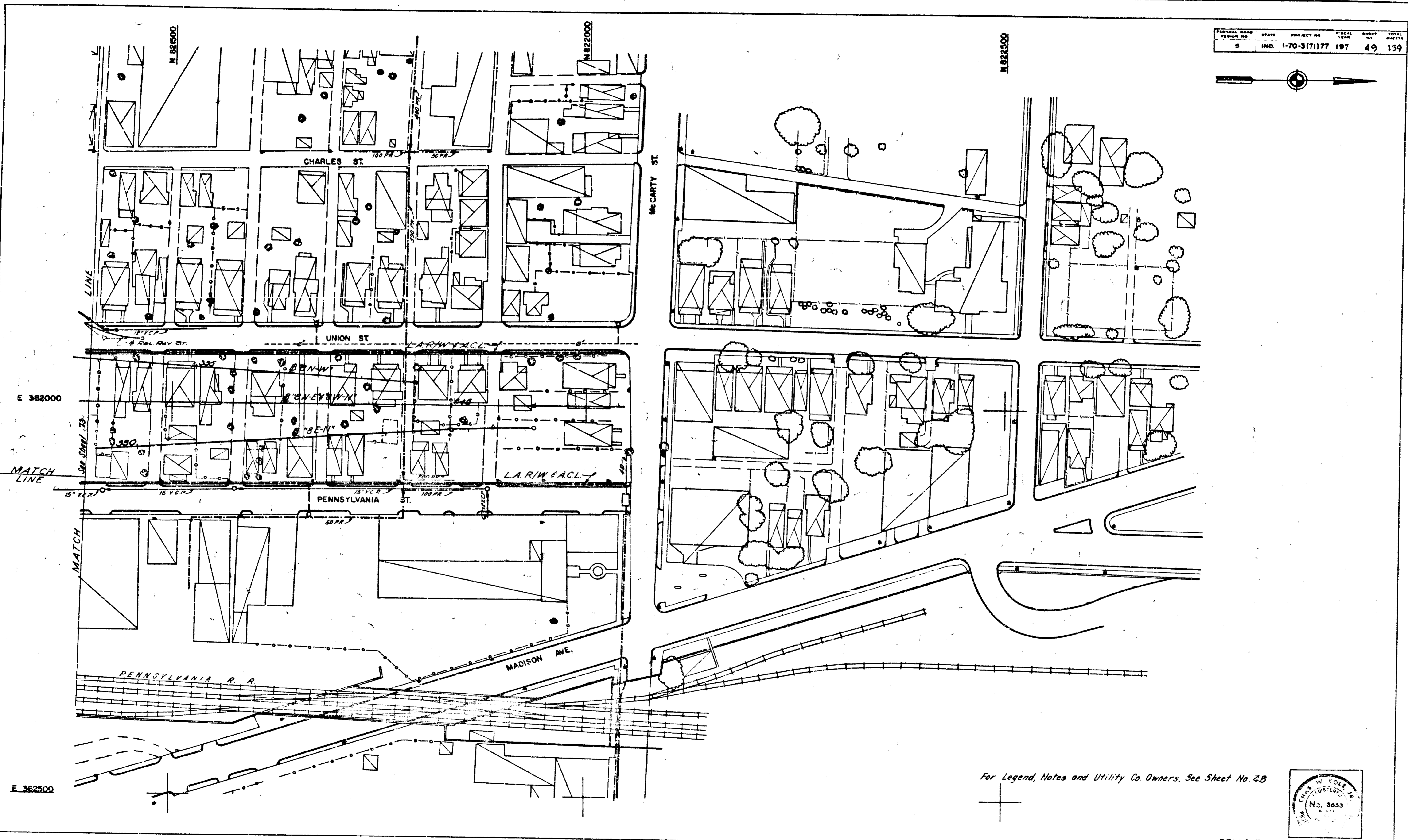
**UTILITY COMPANIES**

UTILITY	OWNERS	ADDRESS
WATER	INDIANAPOLIS WATER CO	1220 WATERWAY BLDG., INDIANAPOLIS, IND. 46207
TELEPHONE	INDIANA BELL TELEPHONE CO INC.	240 N. MERIDIAN ST., INDIANAPOLIS, IND. 46209
ELECTRIC	INDIANAPOLIS POWER & LIGHT CO.	25 MONUMENT CIRCLE, INDIANAPOLIS, IND. 46206
GAS	CITIZENS GAS & COKE UTILITY	2023 N. MERIDIAN ST., INDIANAPOLIS, IND. 46209
STEAM	INDIANAPOLIS POWER & LIGHT CO.	25 MONUMENT CIRCLE, INDIANAPOLIS, IND. 46206
SANITARY SEWERS	INDIANAPOLIS SANITARY DISTRICT	2541 CITY-COUNTY BUILDING, INDIANAPOLIS, IND. 46206

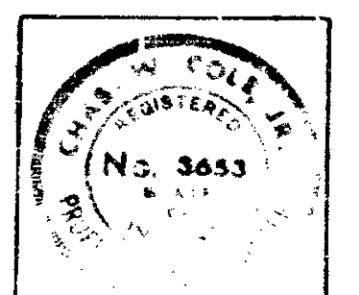
**NOTES:**  
 For additional utility symbols refer to EXISTING UTILITY SHEETS.  
 Utility relocations indicated on these sheets are shown in their approx. locations only. The exact locations are to be established in PHASE II design. Unless otherwise indicated, all existing utilities within the Limited Access R/W areas are to be abandoned or removed. For utilities to be abandoned or removed outside the Limited Access R/W areas refer to the 1"=100' UTILITY RELOCATION PLANS.



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(7)77	197	49	139



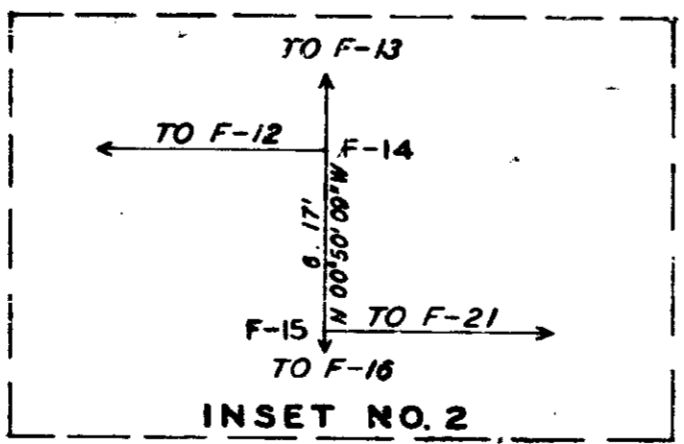
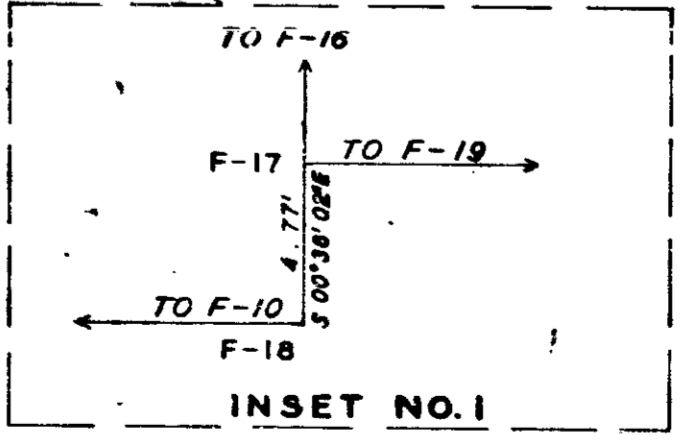
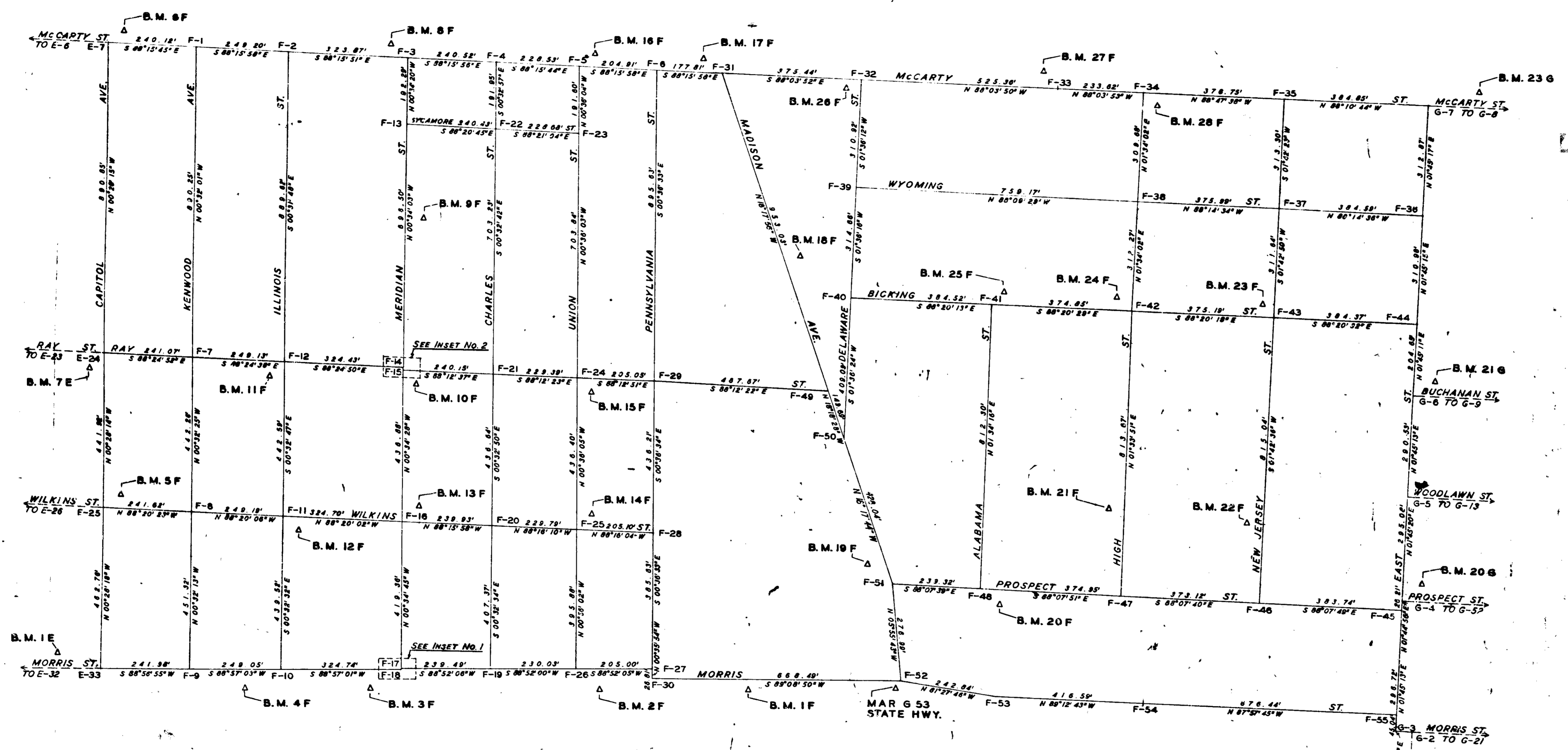
For Legend, Notes and Utility Co. Owners, See Sheet No. 2B



RELOCATED UTILITIES

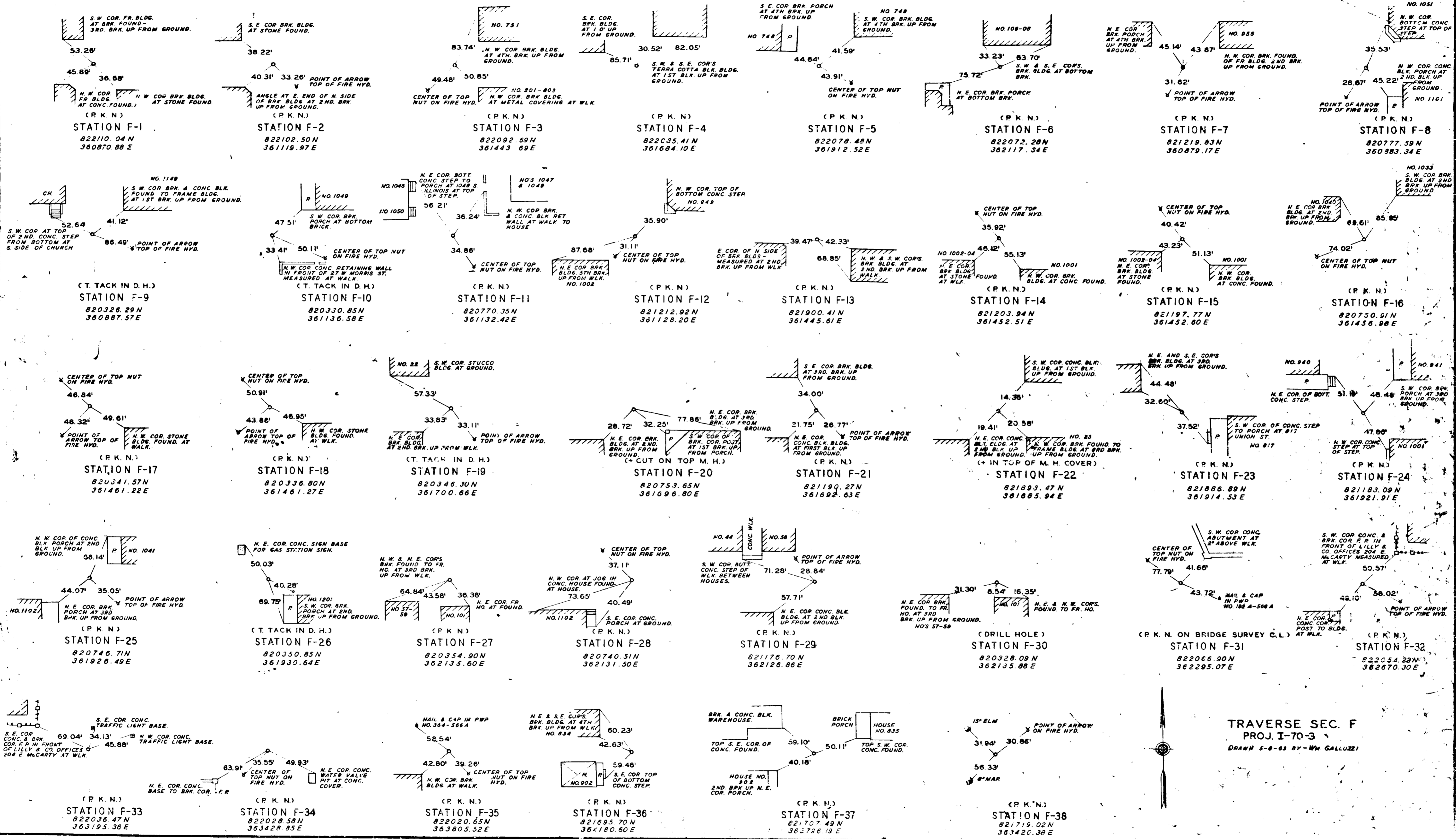
PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
1-70-3(7)77		49	139	

*Handwritten signature and date: 3/31*



LEGEND  
 & BENCH MARK

TRAVERSE SEC. F  
 PROJ. I-70-3  
 SCALE 1"=150'



(P.K.N.)  
STATION F-1  
822110.04 N  
360870.88 E

(P.K.N.)  
STATION F-2  
822102.50 N  
361119.87 E

(P.K.N.)  
STATION F-3  
822092.69 N  
361443.69 E

(P.K.N.)  
STATION F-4  
822035.41 N  
361684.10 E

(P.K.N.)  
STATION F-5  
822078.48 N  
361912.52 E

(P.K.N.)  
STATION F-6  
822072.28 N  
362117.34 E

(P.K.N.)  
STATION F-7  
821219.83 N  
360879.17 E

(P.K.N.)  
STATION F-8  
820777.59 N  
360983.34 E

(T. TACK IN D.H.)  
STATION F-9  
820326.29 N  
360887.57 E

(T. TACK IN D.H.)  
STATION F-10  
820330.85 N  
361136.58 E

(P.K.N.)  
STATION F-11  
820770.35 N  
361132.42 E

(P.K.N.)  
STATION F-12  
821212.92 N  
361128.20 E

(P.K.N.)  
STATION F-13  
821900.41 N  
361445.61 E

(P.K.N.)  
STATION F-14  
821203.94 N  
361452.51 E

(P.K.N.)  
STATION F-15  
821197.77 N  
361452.60 E

(P.K.N.)  
STATION F-16  
820750.91 N  
361456.98 E

(P.K.N.)  
STATION F-17  
820341.57 N  
361461.22 E

(P.K.N.)  
STATION F-18  
820336.80 N  
361461.27 E

(T. TACK IN D.H.)  
STATION F-19  
820346.30 N  
361700.66 E

(CUT ON TOP M.H.)  
STATION F-20  
820753.65 N  
361696.80 E

(P.K.N.)  
STATION F-21  
821190.27 N  
361692.63 E

(P.K.N.)  
STATION F-22  
821893.47 N  
361885.94 E

(P.K.N.)  
STATION F-23  
821886.89 N  
361914.53 E

(P.K.N.)  
STATION F-24  
821183.09 N  
361921.91 E

(P.K.N.)  
STATION F-25  
820746.71 N  
361926.49 E

(T. TACK IN D.H.)  
STATION F-26  
820350.85 N  
361930.64 E

(P.K.N.)  
STATION F-27  
820354.90 N  
362135.60 E

(P.K.N.)  
STATION F-28  
820740.51 N  
362131.50 E

(P.K.N.)  
STATION F-29  
821176.70 N  
362126.86 E

(DRILL HOLE)  
STATION F-30  
820328.09 N  
362135.88 E

(P.K.N. ON BRIDGE SURVEY C.L.)  
STATION F-31  
822066.90 N  
362295.07 E

(P.K.N.)  
STATION F-32  
822054.28 N  
362670.30 E

(P.K.N.)  
STATION F-33  
822036.47 N  
363195.36 E

(P.K.N.)  
STATION F-34  
822028.58 N  
363428.85 E

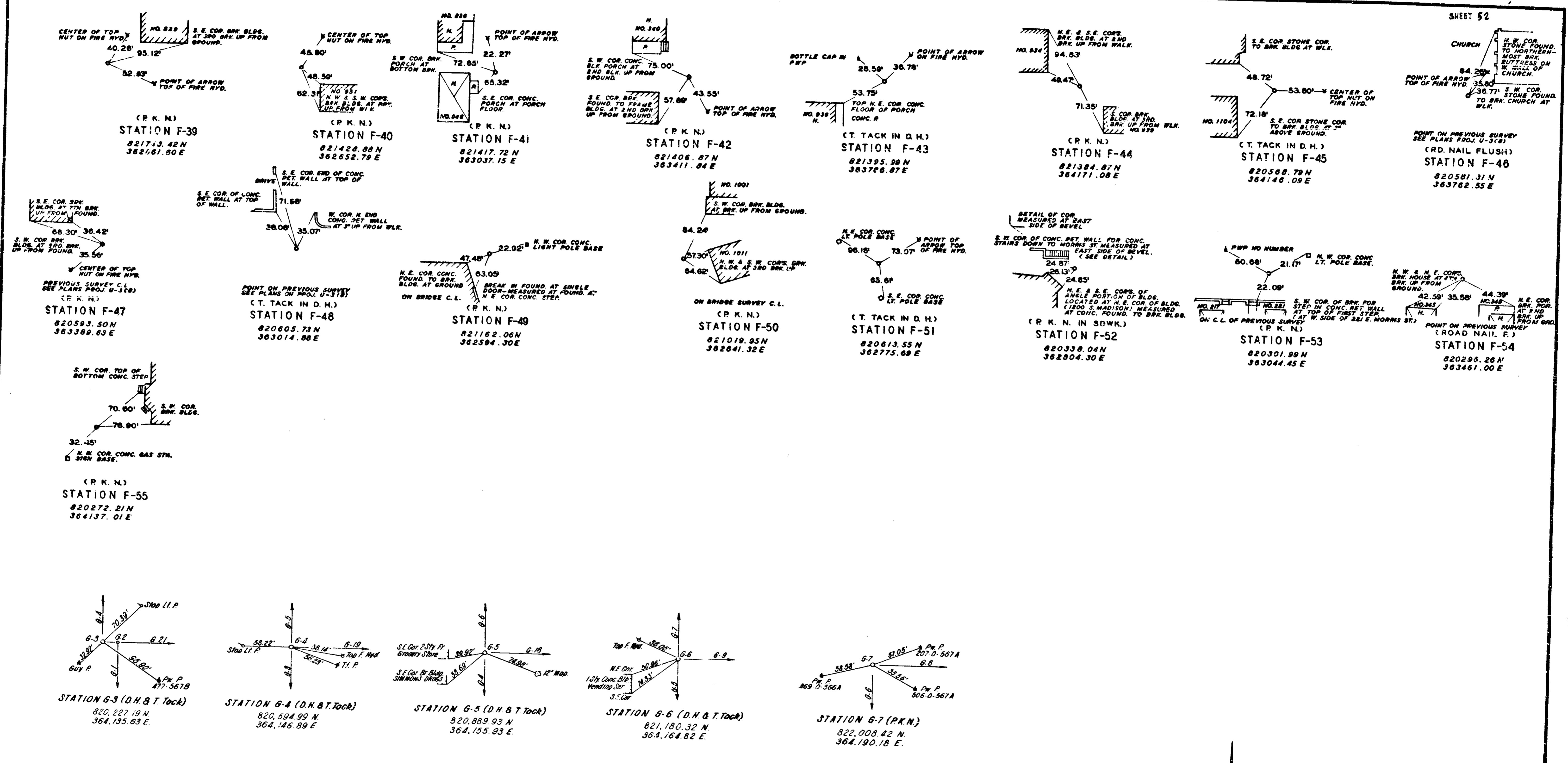
(P.K.N.)  
STATION F-35  
822020.65 N  
363805.52 E

(P.K.N.)  
STATION F-36  
821695.70 N  
364180.60 E

(P.K.N.)  
STATION F-37  
821707.49 N  
363786.19 E

(P.K.N.)  
STATION F-38  
821719.02 N  
363420.38 E

TRAVERSE SEC. F  
PROJ. I-70-3  
DRAWN 5-8-63 BY WM. GALLUZZI



TRAVERSE SEC. F  
 PROJ. I-70-3  
 DRAWN 5-20-83 BY - MM. GALLUZZI

PROJECT NO	LIN	SHEET	TOTAL SHEETS	FILE
I-70-3(71)77		52	139	



B.M. NO. 1-F ELEV. 709.04

□ CUT IN CONC. CURB JUST E. OF A CURB INLET ON THE S. SIDE OF MORRIS ST. ABOUT 100' E. OF THE INTERSECTION OF TALBOT & MORRIS, & JUST E. OF THE R.R. UNDERPASS.

B.M. NO. 2-F ELEV. 711.11

□ CUT IN CONC. CURB JUST E. OF A CURB INLET ON THE S.E. COR. OF MORRIS & UNION STS., AND ABOUT 2' W. OF A FIRE HYDRANT.

B.M. NO. 3-F ELEV. 713.46

□ CUT IN THE N.E. COR. OF A LAMP POLE BASE ON THE S.W. COR. OF MORRIS & MERIDIAN STS.

B.M. NO. 4-F ELEV. 709.00

□ CUT IN CONC. CURB ON THE S.E. COR. OF MORRIS & ILLINOIS STS., 12' S. OF THE S. CURB ON MORRIS ST., AND 2' N. OF A CURB INLET ON THE E. CURB OF ILLINOIS ST.

B.M. NO. 5-F ELEV. 707.11

□ CUT IN CONC. CURB ON THE N.E. COR. OF CAPITOL & WILKINS STS.

B.M. NO. 6-F ELEV. 703.85

□ CUT IN CONC. STEP AT 735 S. CAPITOL, ON THE N.E. COR. OF CAPITOL & McCARTY STS.

B.M. NO. 7-F ELEV. 712.01

□ CUT IN CONC. WALK ON THE S.E. COR. OF ILLINOIS & McCARTY STS., 4' E. OF FIRE HYDRANT, 10' S. OF S. CURB LINE OF McCARTY ST.

B.M. NO. 8-F ELEV. 710.90

□ CUT IN S.E. COR. OF CONC. TELEPHONE BOOTH BASE ON THE N.W. COR. OF McCARTY & MERIDIAN STS.

B.M. NO. 9-F ELEV. 709.18

□ CUT IN S.W. COR. OF CONC. TELEPHONE BOOTH BASE, 20' E. OF E. CURB LINE OF MERIDIAN ST., 2' S. OF S.W. COR. OF NO. 849 MERIDIAN ST. (TEAMSTER BLDG.)

B.M. NO. 10-F ELEV. 708.97

□ CUT IN CONC. COPING ABOUT BLDG. ON THE S.E. COR. OF MERIDIAN & RAY STS., NO. 1001 S. MERIDIAN ST.

B.M. NO. 11-F ELEV. 705.78

□ CUT IN N.E. COR. OF CONC. STEP ON THE S.W. COR. OF ILLINOIS ST. & RAY ST., NO. 1002 S. ILLINOIS ST.

B.M. NO. 12-F ELEV. 711.51

□ CUT IN CONC. WALK AROUND BLDG. ON THE S.E. COR. OF ILLINOIS & WILKINS STS., 6' E. OF E. CURB LINE OF ILLINOIS & 6' S. OF S. CURB LINE OF WILKINS.

B.M. NO. 13-F ELEV. 711.21

□ CUT IN N.W. COR. OF CONC. TELEPHONE BOOTH BASE, ON THE N.E. COR. OF WILKINS & MERIDIAN STS.

B.M. NO. 14-F ELEV. 711.32

□ CUT IN CONC. CURB ON THE N.E. COR. OF UNION & WILKINS STS., 1' E. OF A CURB INLET ON UNION ST. & 20' N. OF N. CURB LINE OF WILKINS ST.

B.M. NO. 15-F ELEV. 713.08

N.W. COR. OF CONC. STEP AT ENT. TO 1001 S. UNION ST. (STELLERMAN ELECT. CO.)

B.M. NO. 16-F ELEV. 714.87

□ CUT IN S.W. COR. OF BOTTOM STEP AT 749 S. UNION ST. ON THE N.W. COR. OF UNION & McCARTY STS. (UNITED STEELWORKERS BLDG.)

B.M. NO. 17-F ELEV. 709.55

□ CUT IN CONC. CURB ON THE N.W. COR. OF McCARTY & MADISON, 6' W. OF W. CURB LINE OF MADISON & 1' E. OF A CURB INLET.

B.M. NO. 18-F ELEV. 709.10

□ CUT IN CONC. CURB ON THE E. CURB LINE OF MADISON AVE., 1' S. OF A CURB INLET, 15' N. & 6' W. OF P.W.P. NO. 196-586-A. (NORTH CORNER OF GOODYEAR STORE)

B.M. NO. 19-F ELEV. 713.88

□ CUT IN 1 1/2" CONC. LAMP POST BASE, 6' W. OF W. CURB LINE OF MADISON AVE., 15' S. OF S. CURB LINE OF W. MORRIS ST. ENT. ACROSS ST. & IN FRONT OF FIRE STATION NO. 17

B.M. NO. 20-F ELEV. 721.13

□ CUT IN 1 1/2" CONC. LAMP POST BASE, 1' S. OF S. CURB LINE ON PROSPECT. AT END OF ALABAMA ST.

B.M. NO. 21-F ELEV. 723.84

□ CUT IN CONC. CURB ON THE W. CURB LINE OF HIGH ST., N.W. COR. OF WOODLAND & HIGH STS., 1' S. OF A CURB INLET.

B.M. NO. 22-F ELEV. 726.98

□ CUT IN CONC. CURB ON THE S.W. COR. OF WOODLAWN & NEW JERSEY STS., 4' S. OF S. CURB LINE OF WOODLAWN.

B.M. NO. 23-F ELEV. 731.72

□ CUT IN S.E. COR. OF CONC. WALK AT 734 S. NEW JERSEY ST. ON THE N.W. COR. OF BICKING & NEW JERSEY STS.

B.M. NO. 24-F ELEV. 729.14

□ CUT IN CONC. CURB ON THE N.W. COR. OF BICKING & HIGH STS., 1' N. OF A CURB INLET ON HIGH, & 20' N. OF N. CURB LINE OF BICKING.

B.M. NO. 25-F ELEV. 719.54

□ CUT IN CONC. CURB ON THE N.E. COR. OF BICKING & ALABAMA STS., 4' W. & 2' S. OF A FIRE HYDRANT.

B.M. NO. 26-F ELEV. 709.65

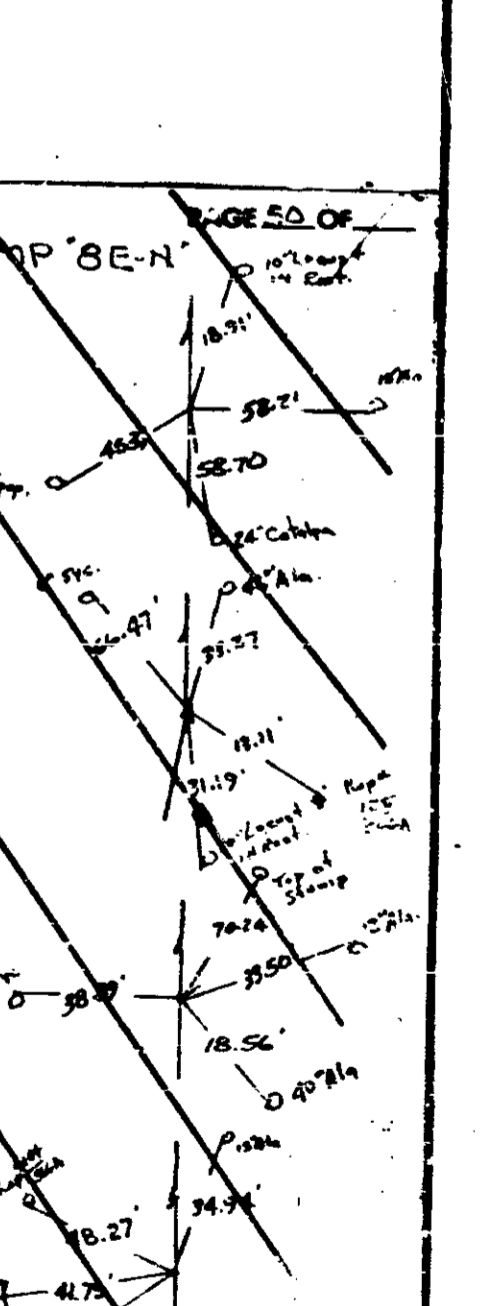
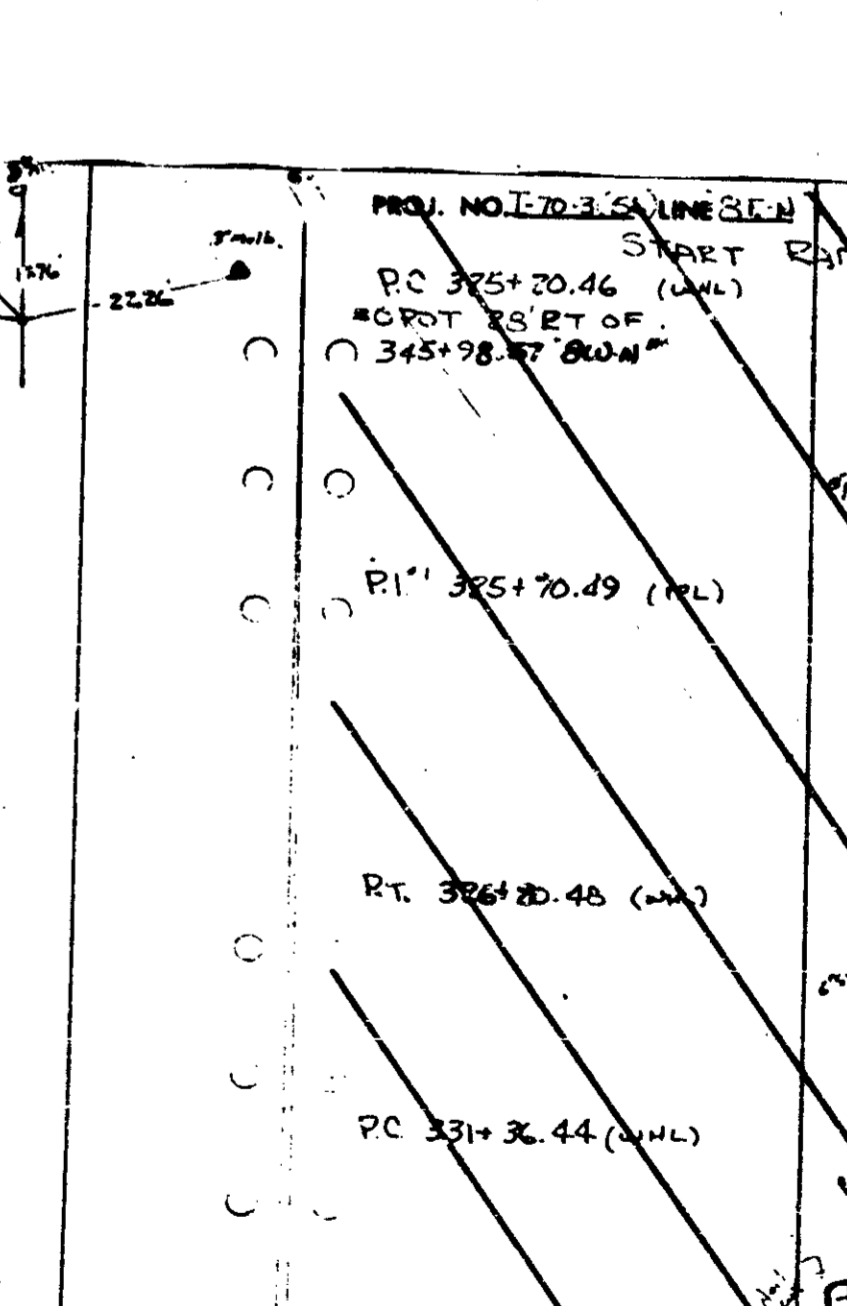
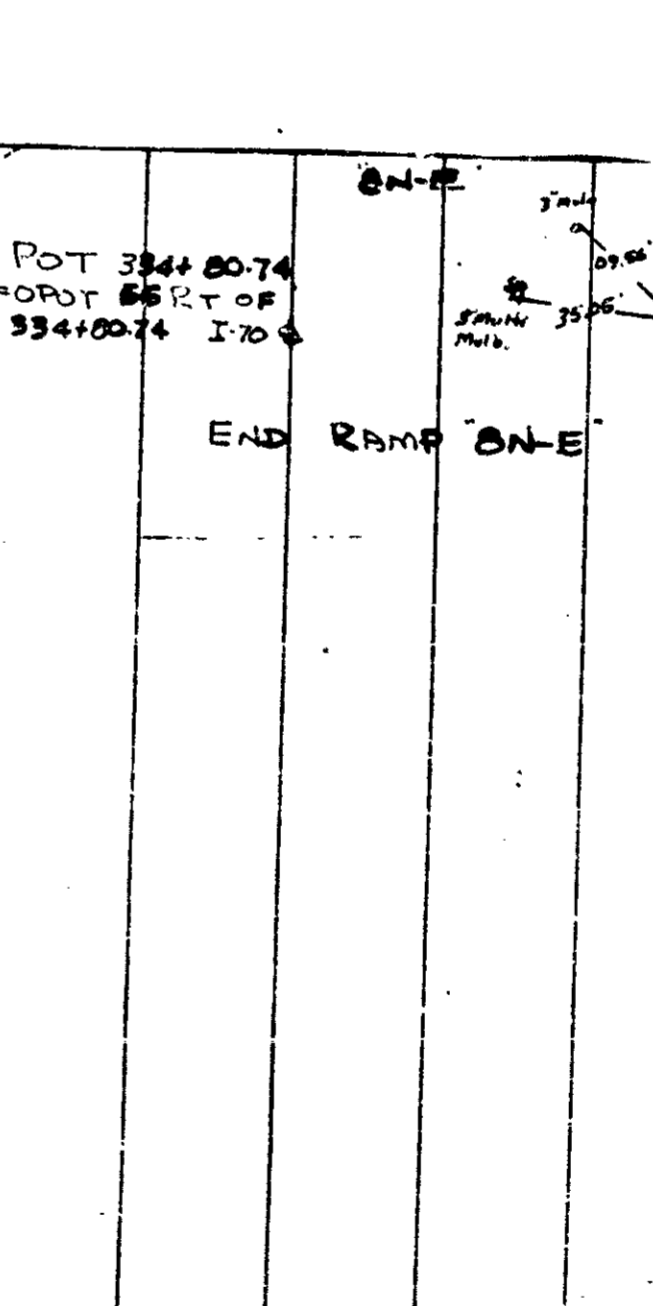
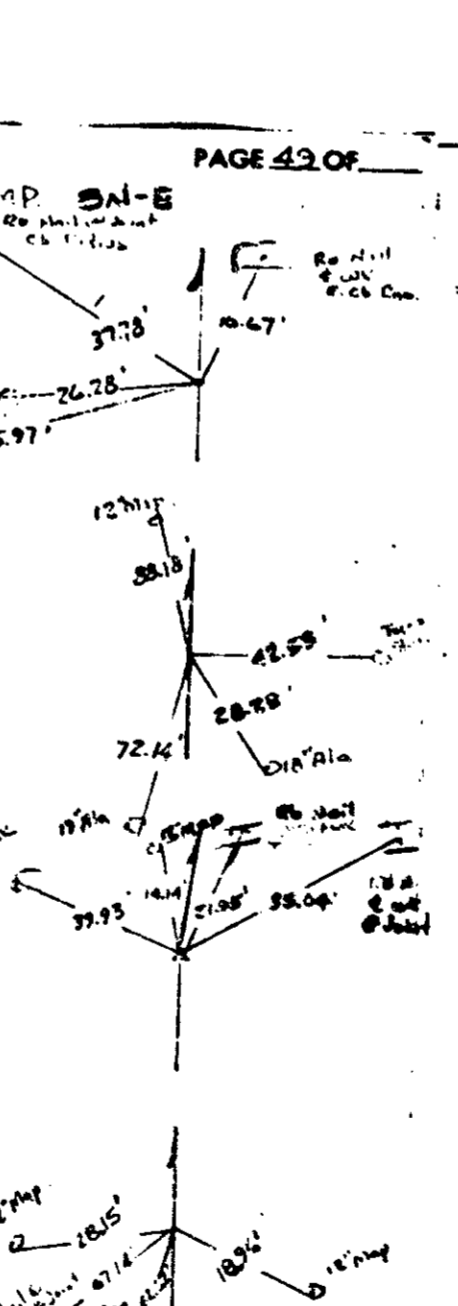
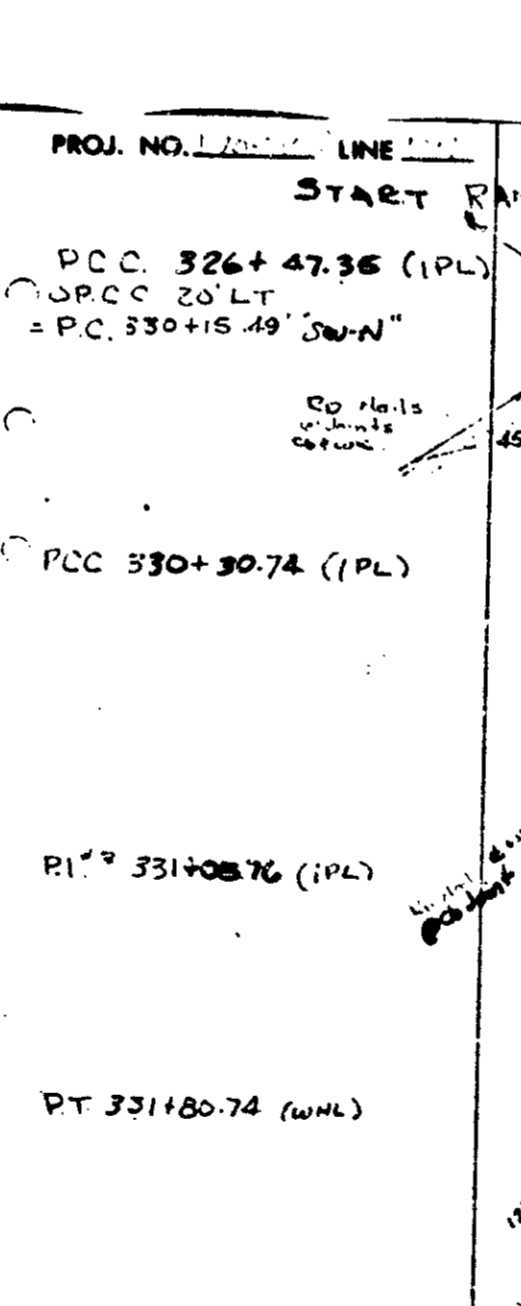
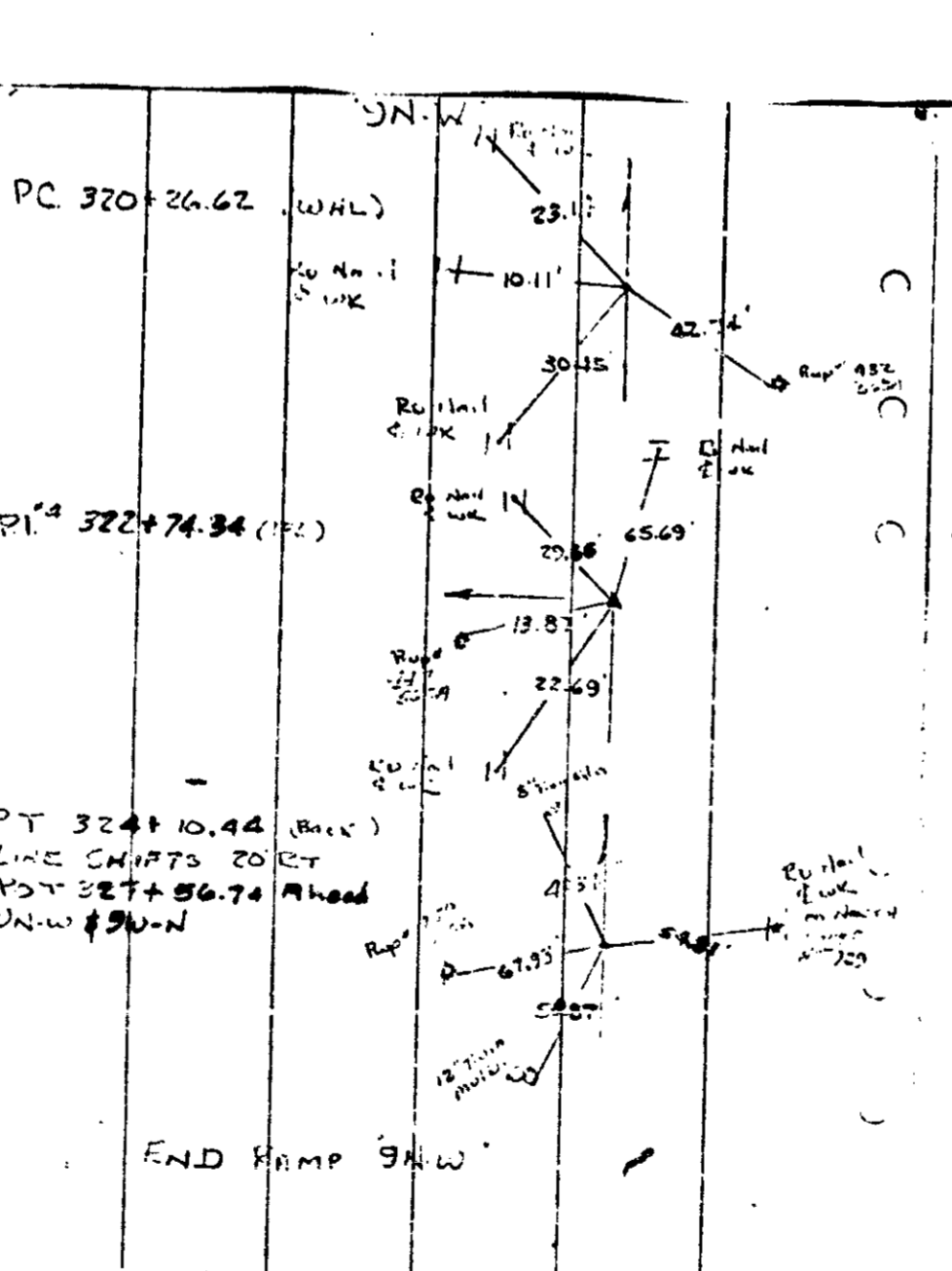
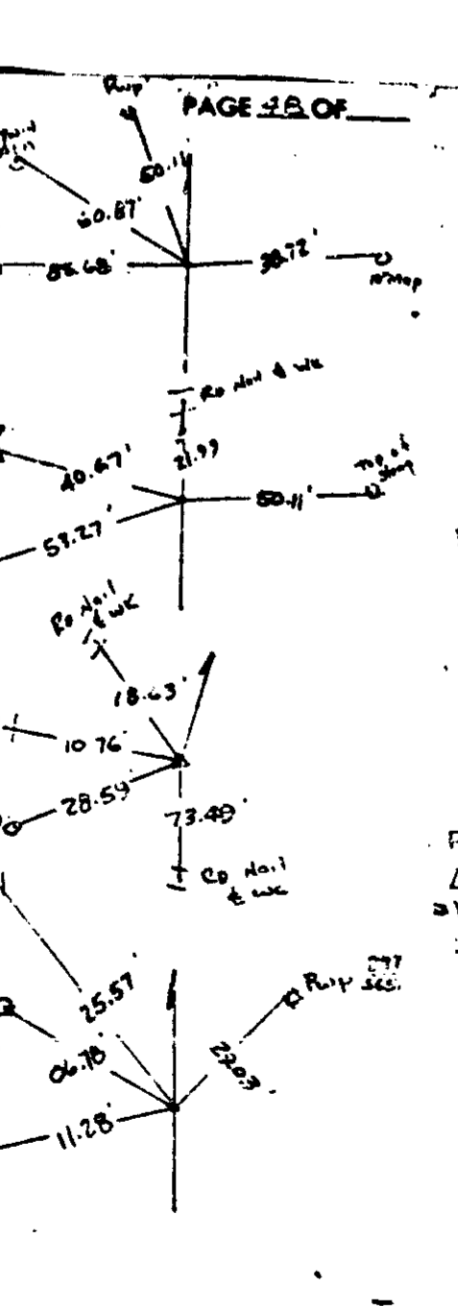
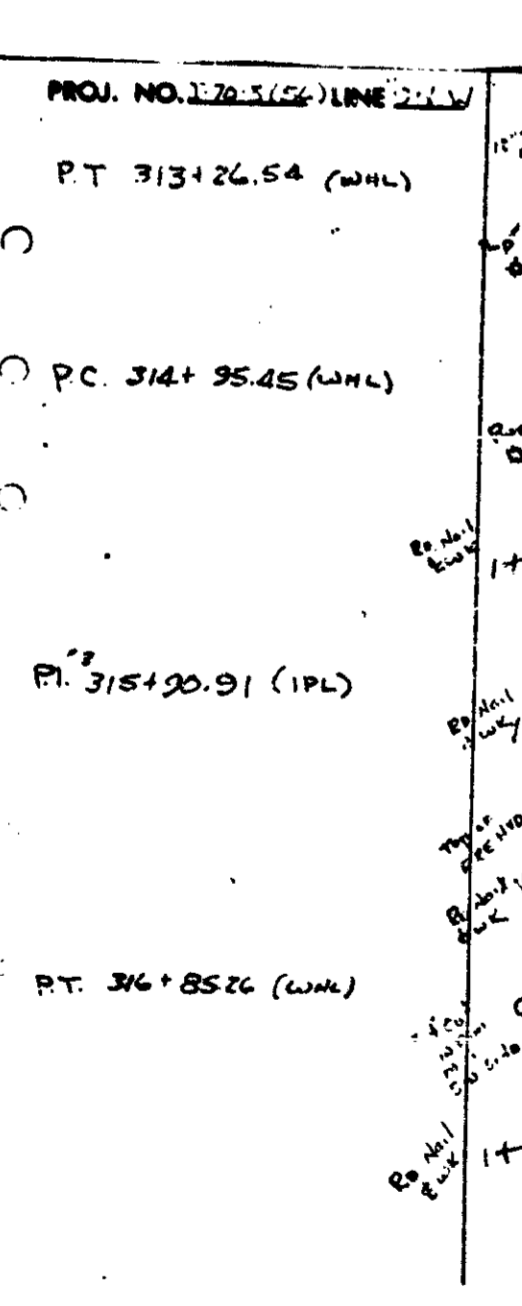
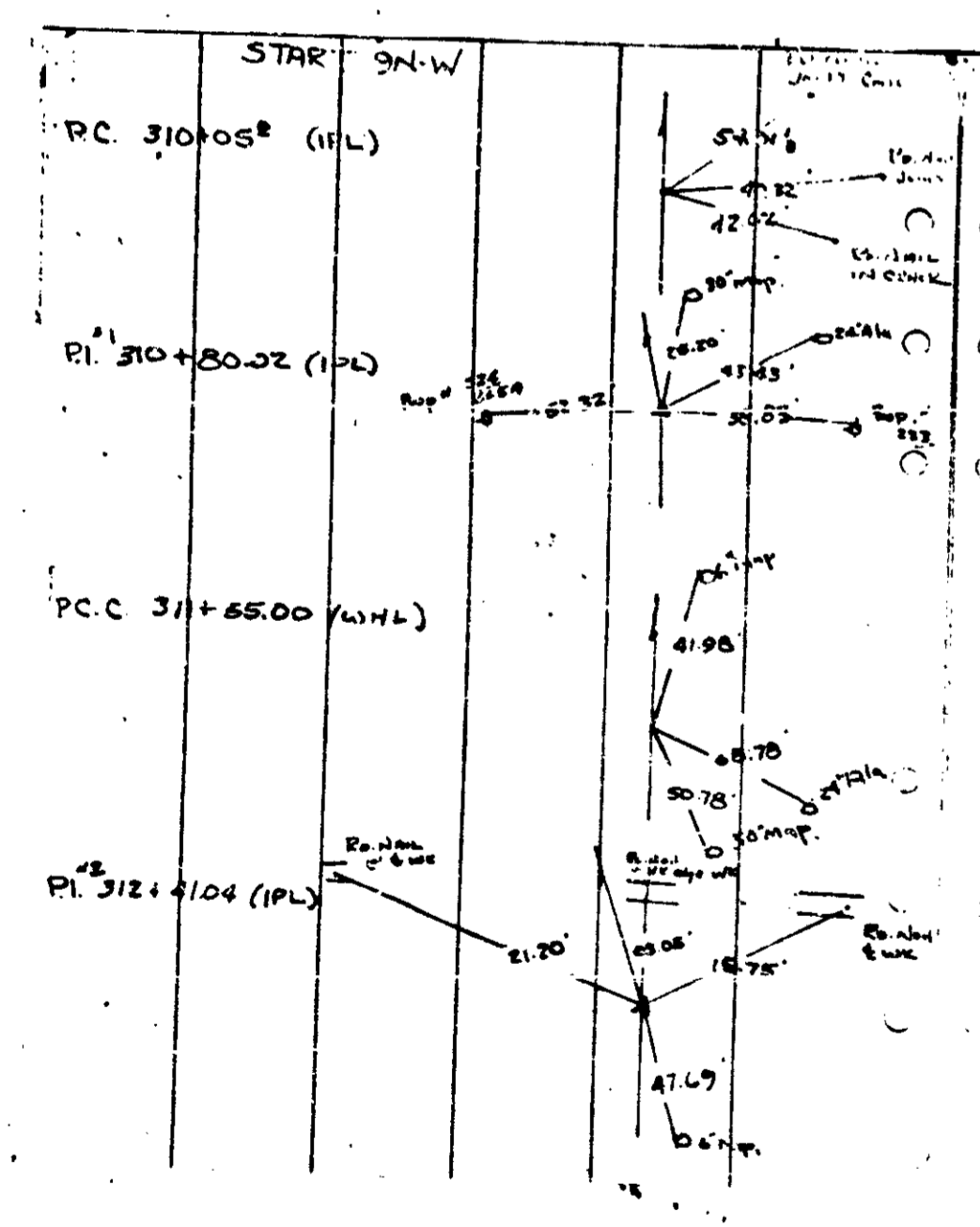
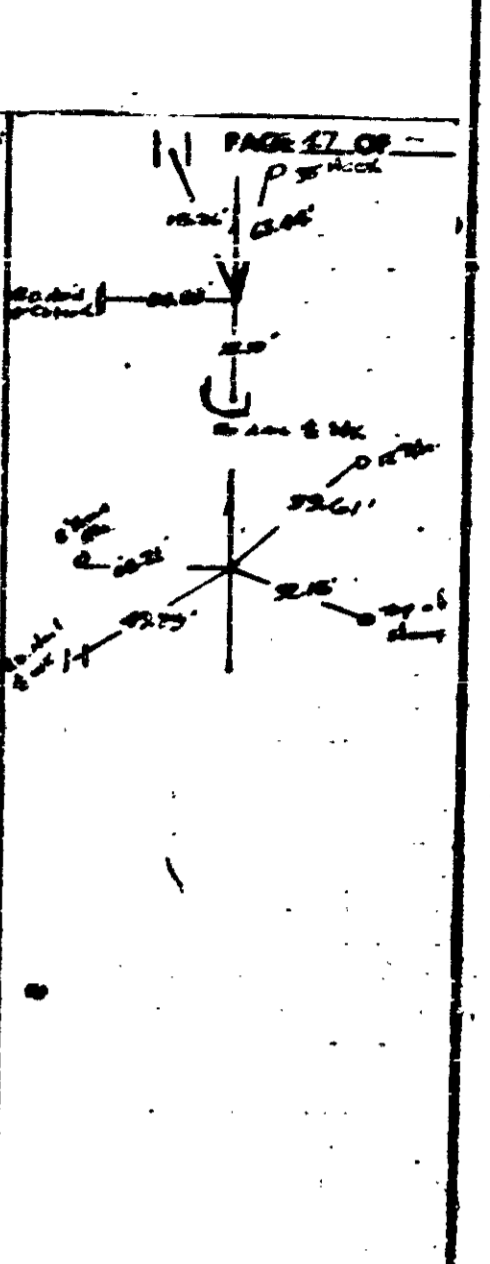
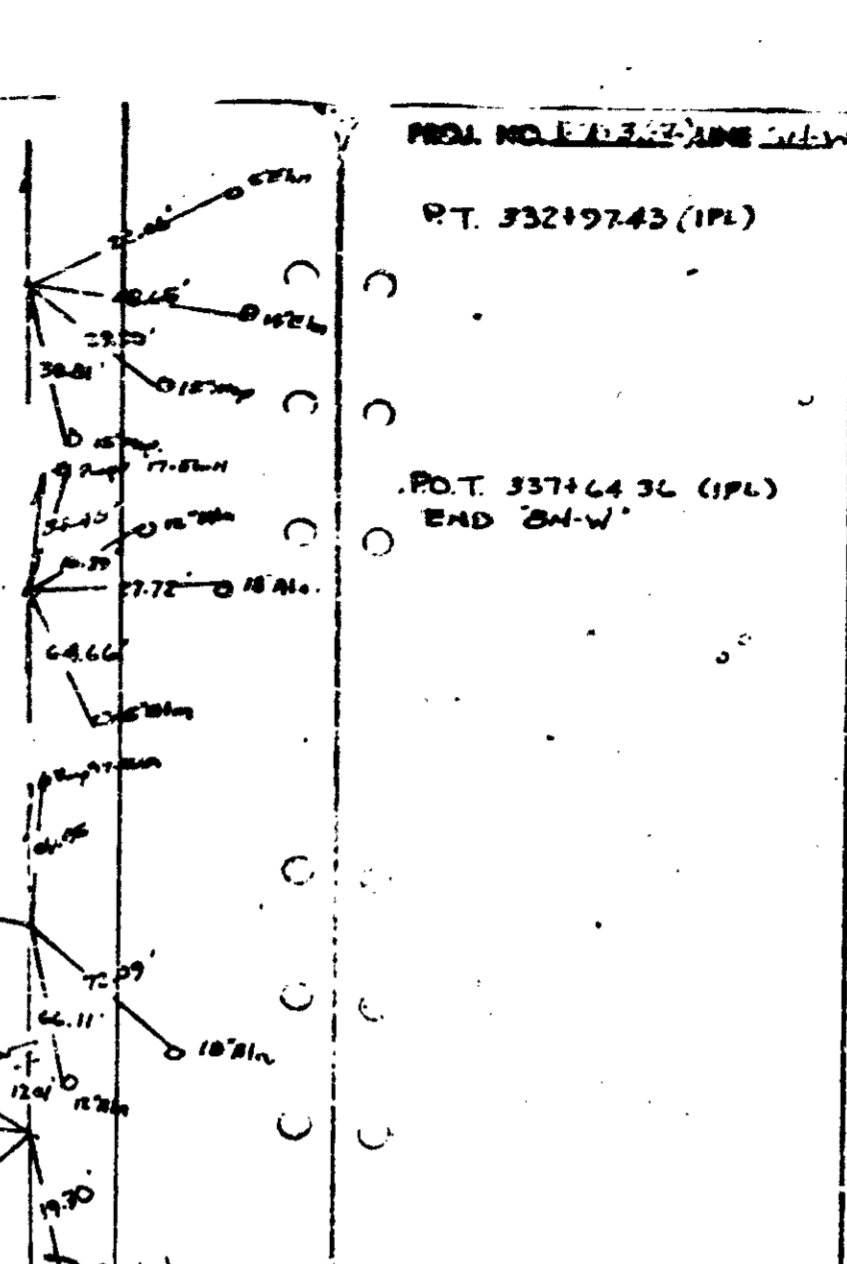
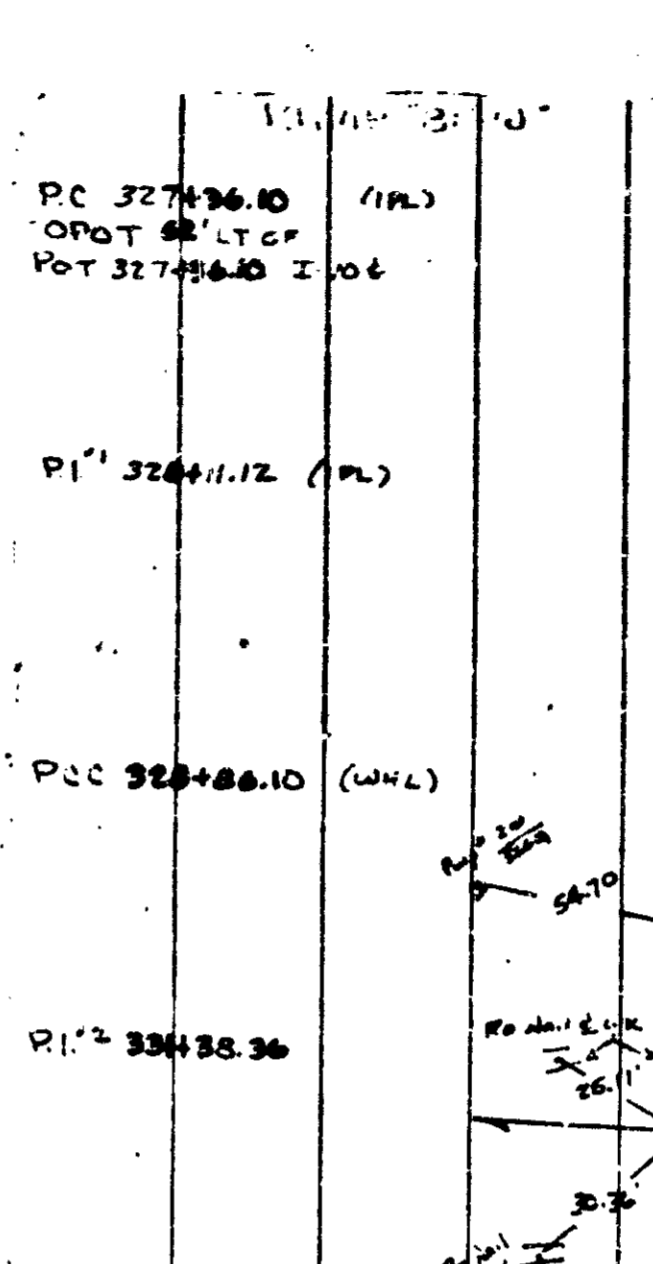
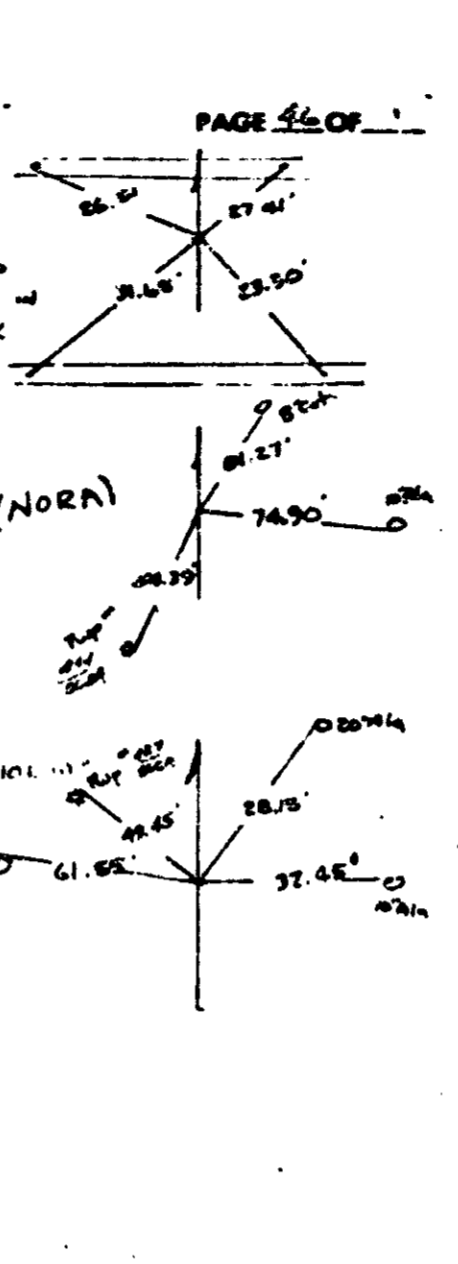
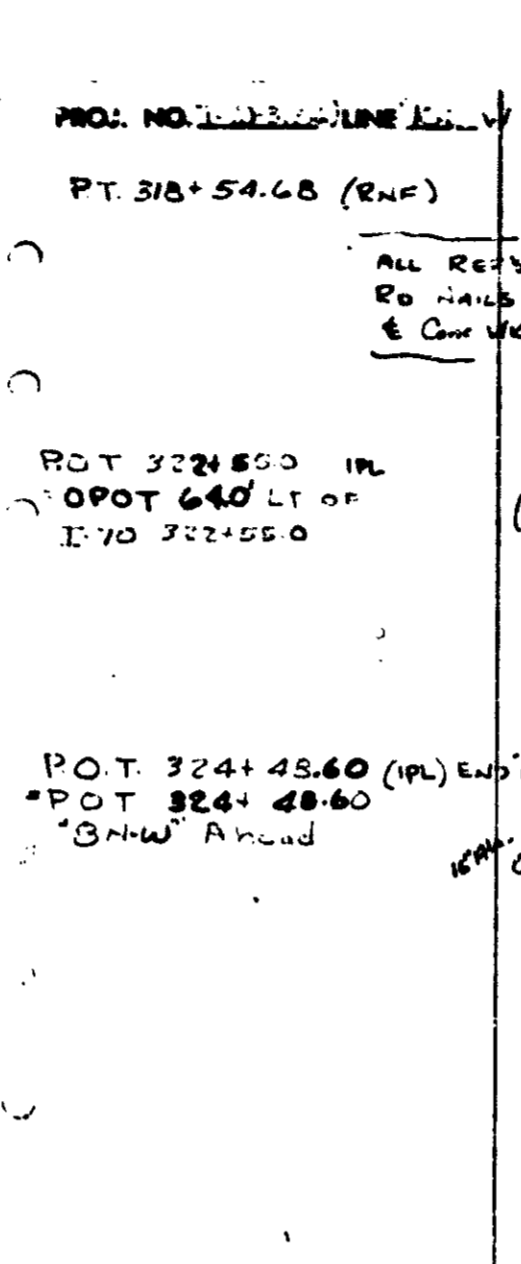
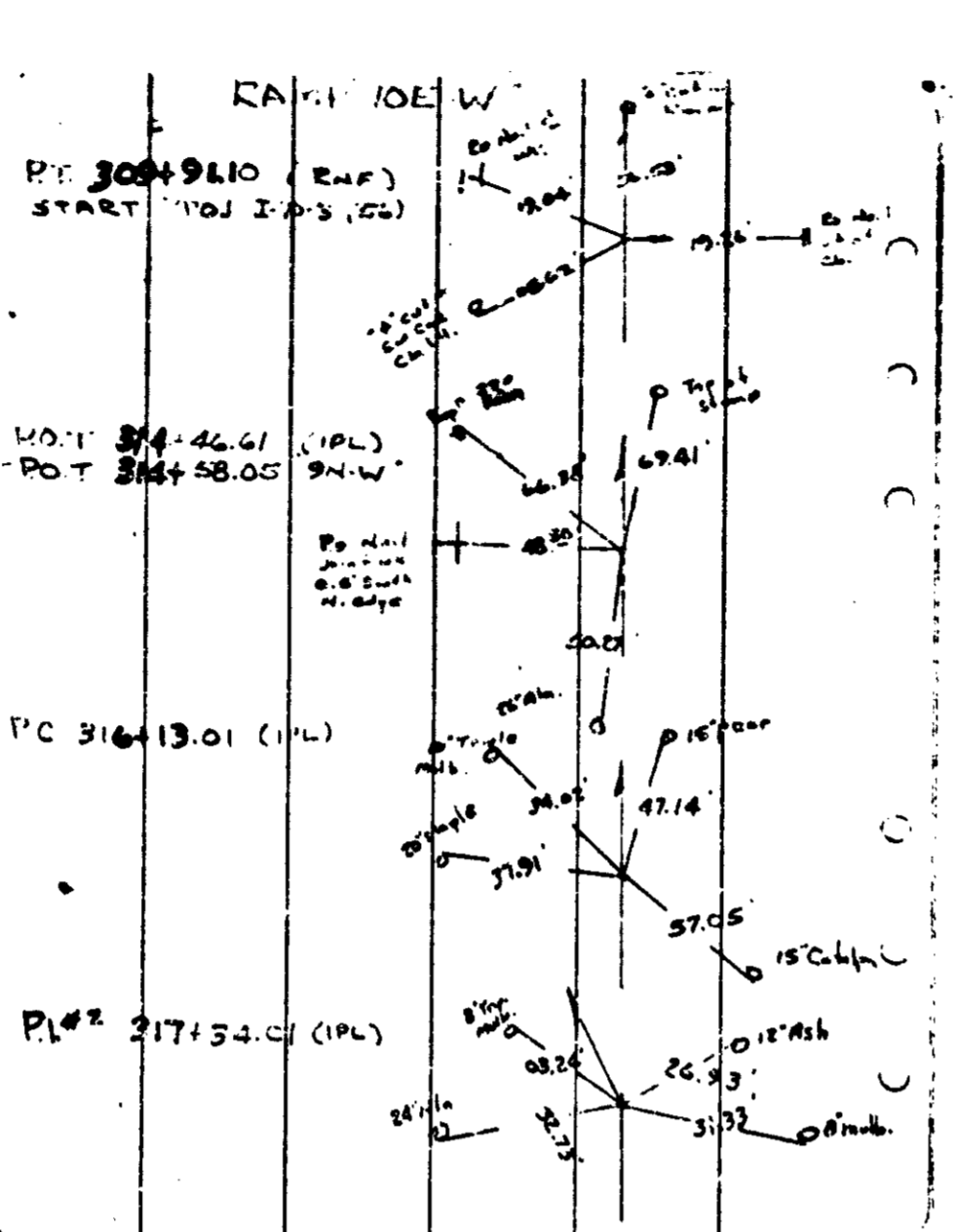
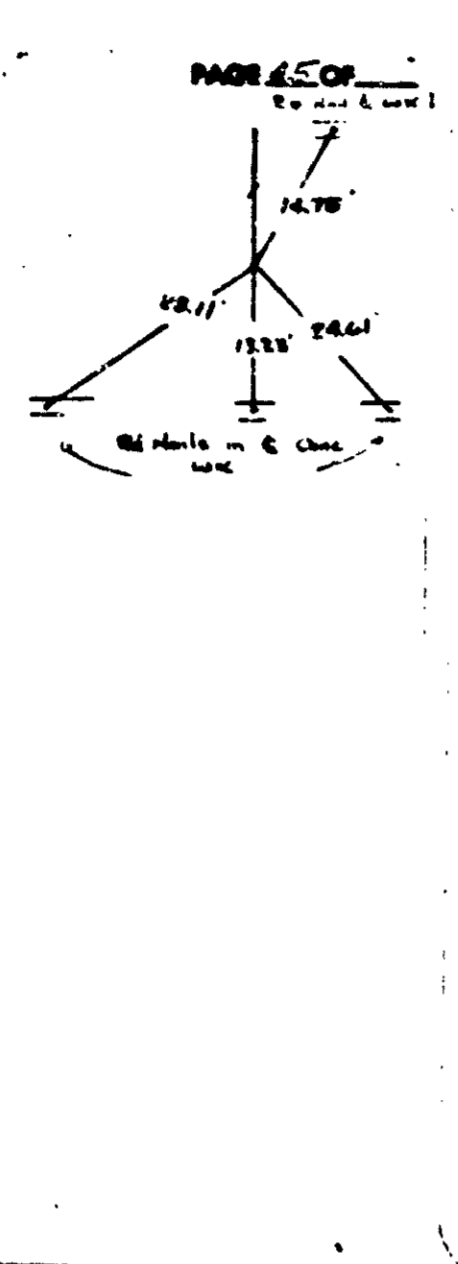
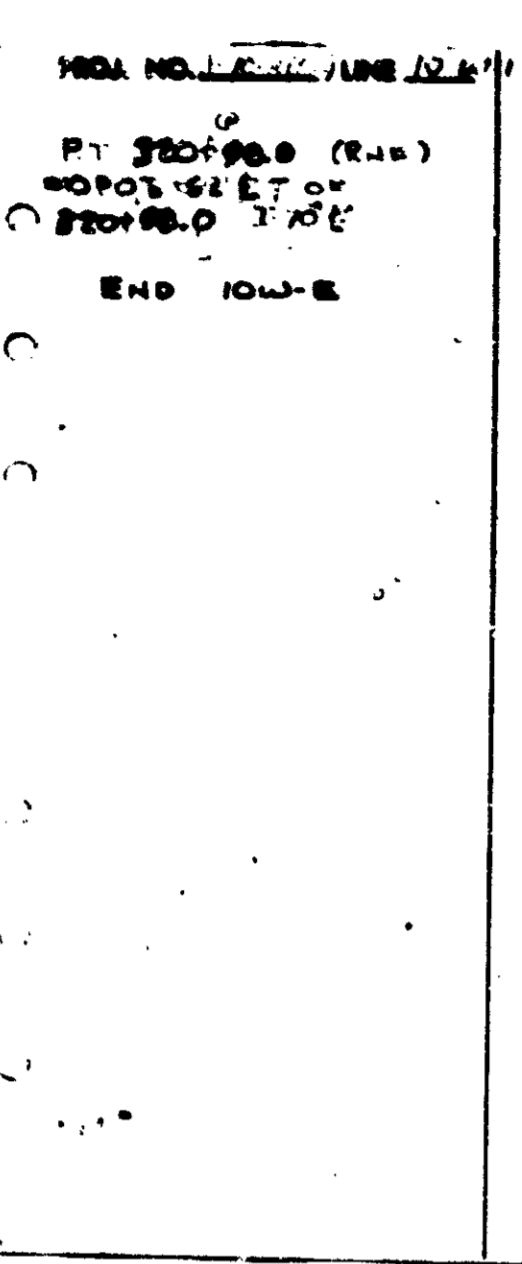
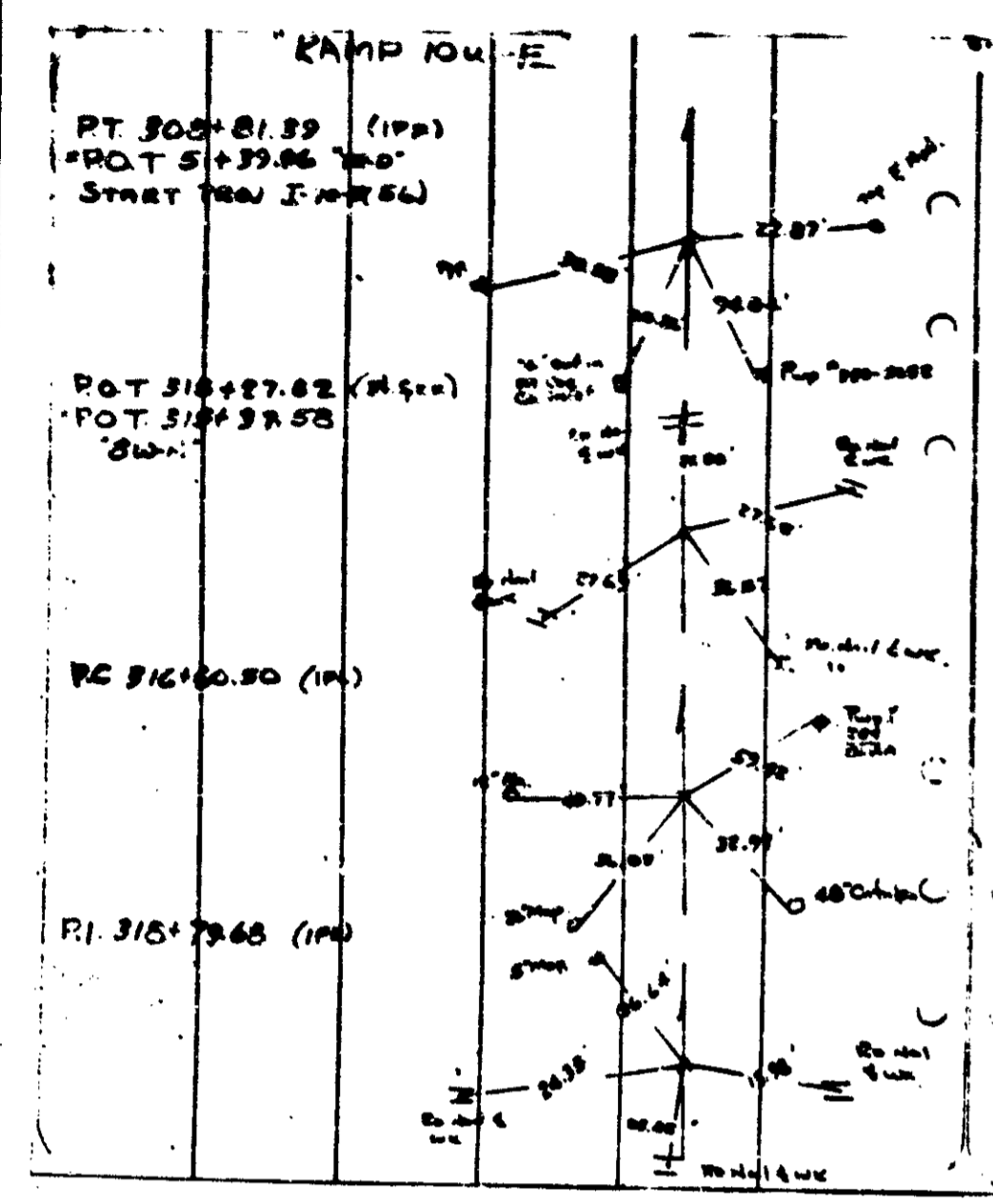
□ CUT IN CONC. CURB ON THE S.W. COR. OF DELAWARE & McCARTY, 1' W. OF A CURB INLET ON McCARTY ST.

B.M. NO. 27-F ELEV. 725.92

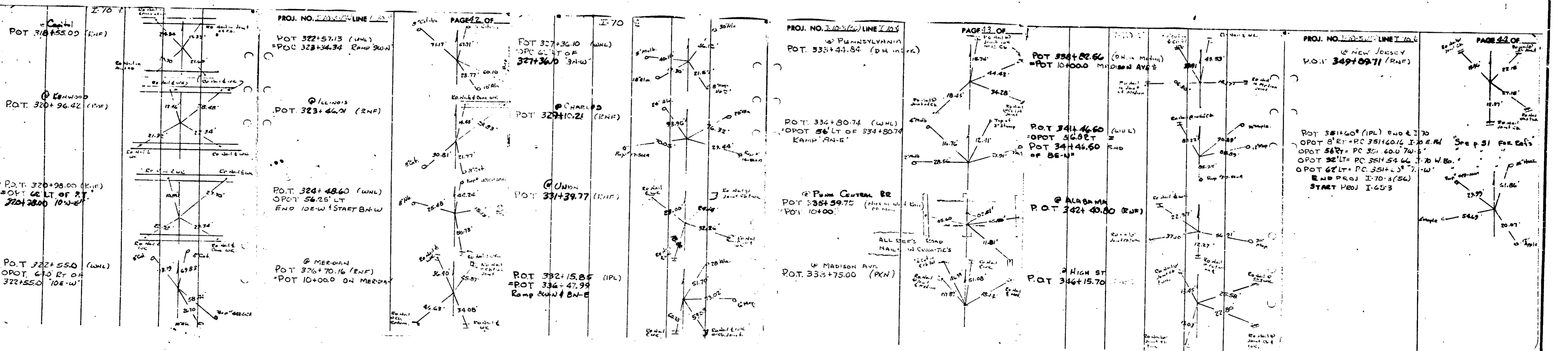
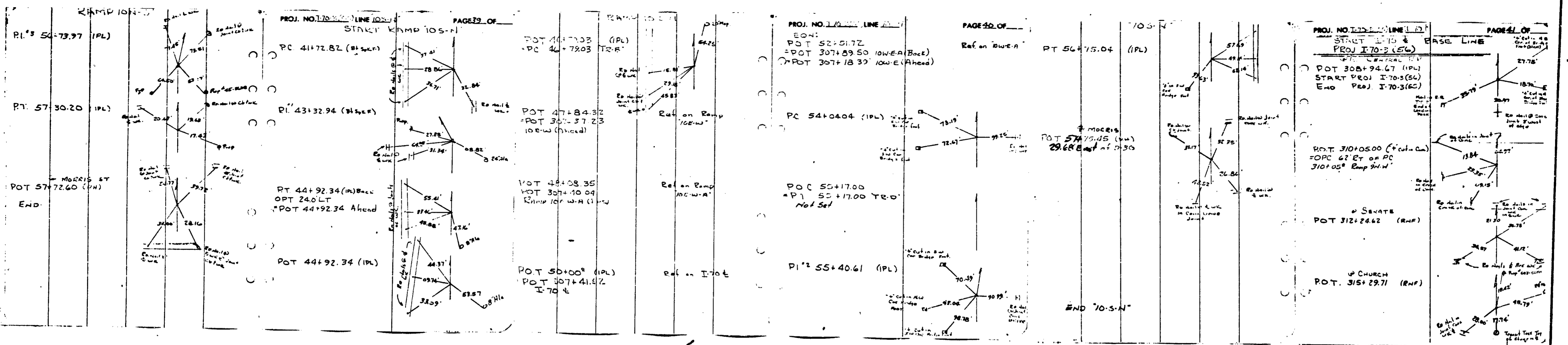
□ CUT IN 1 1/2" CONC. (WALK & WAIT) SIGN BASE ON THE N.W. COR. OF ALABAMA & McCARTY STS., 1' N. OF N. CURB LINE OF McCARTY ST. & 40' W. OF W. CURB LINE OF ALABAMA ST.

B.M. NO. 28-F ELEV. 731.78

□ CUT IN N.E. COR. OF 5' x 10' CONC. SLAB ON THE S.E. COR. OF HIGH & McCARTY STS., 10' S. OF S. CURB LINE OF McCARTY ST. & 20' E. OF E. CURB LINE OF HIGH ST.



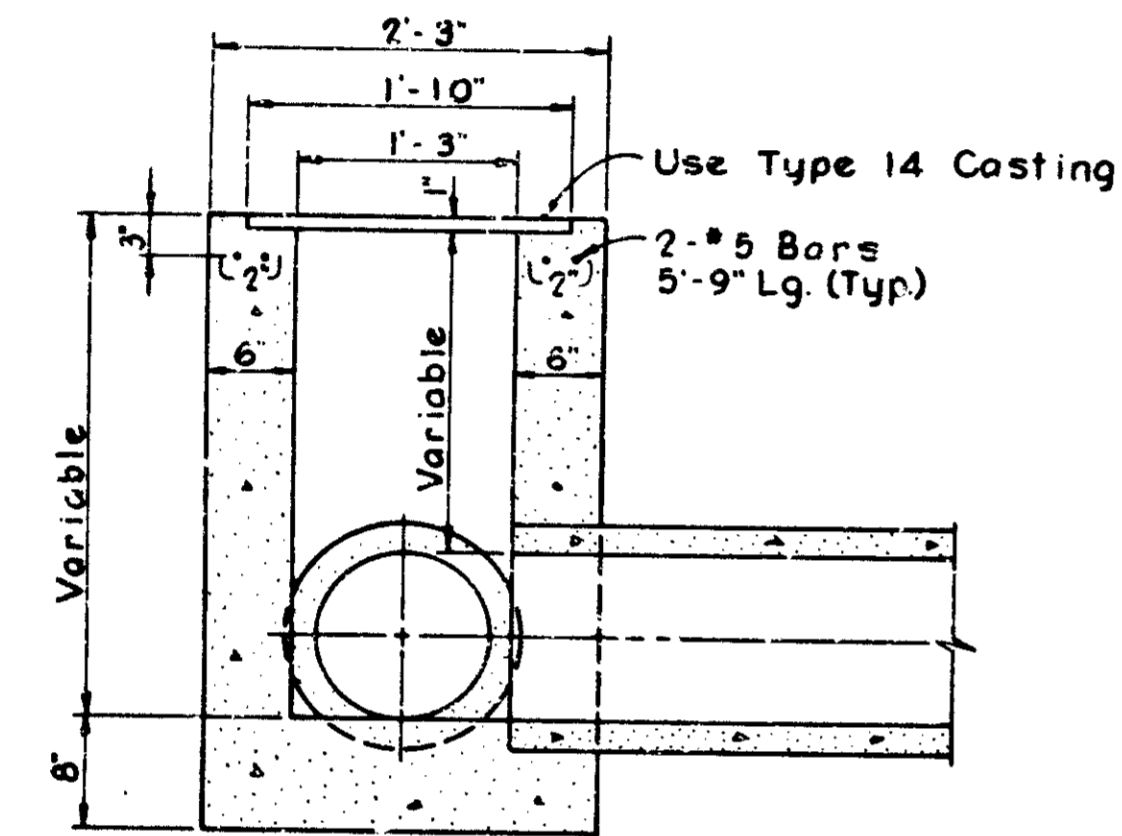
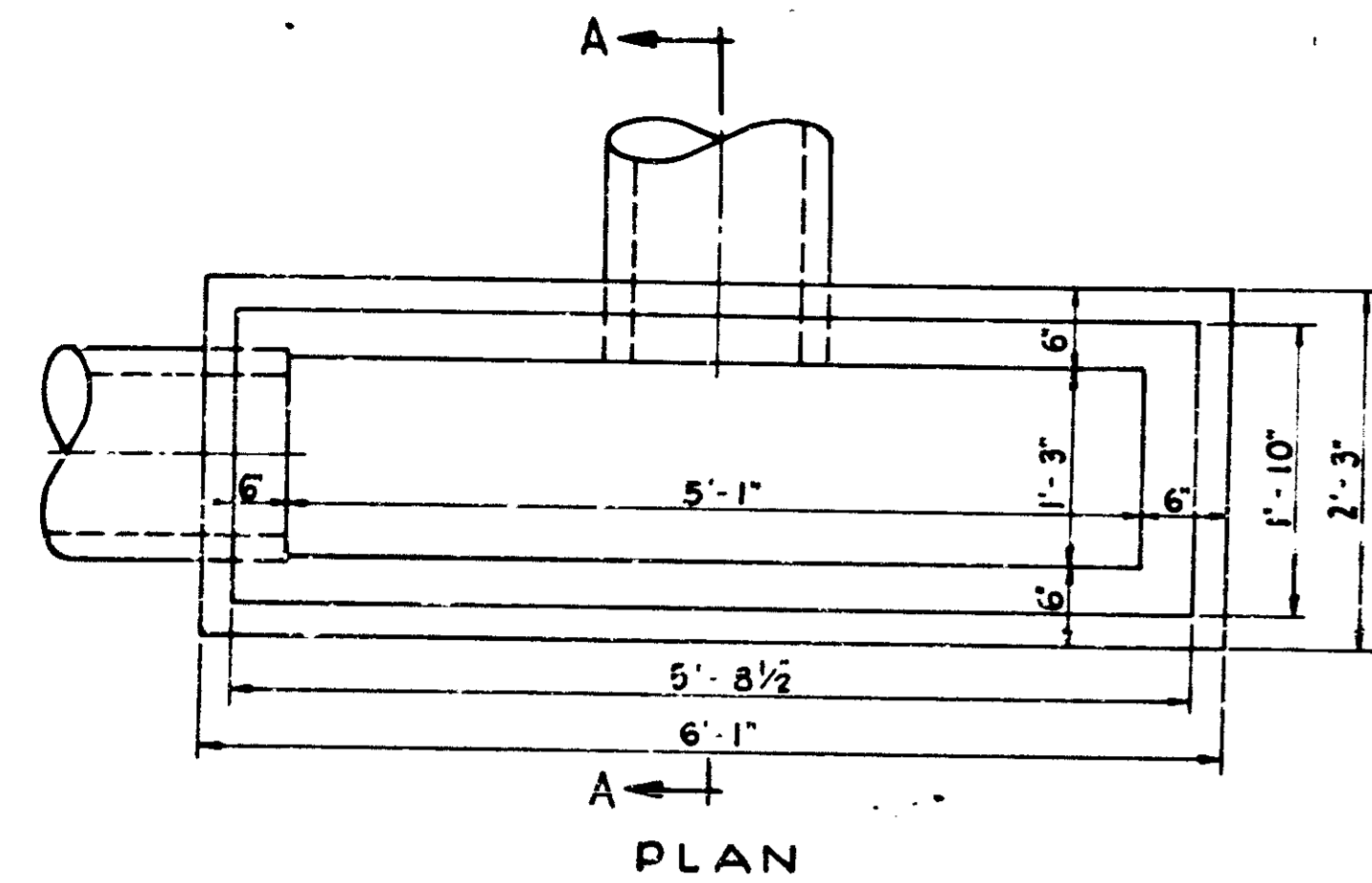
See Sheet



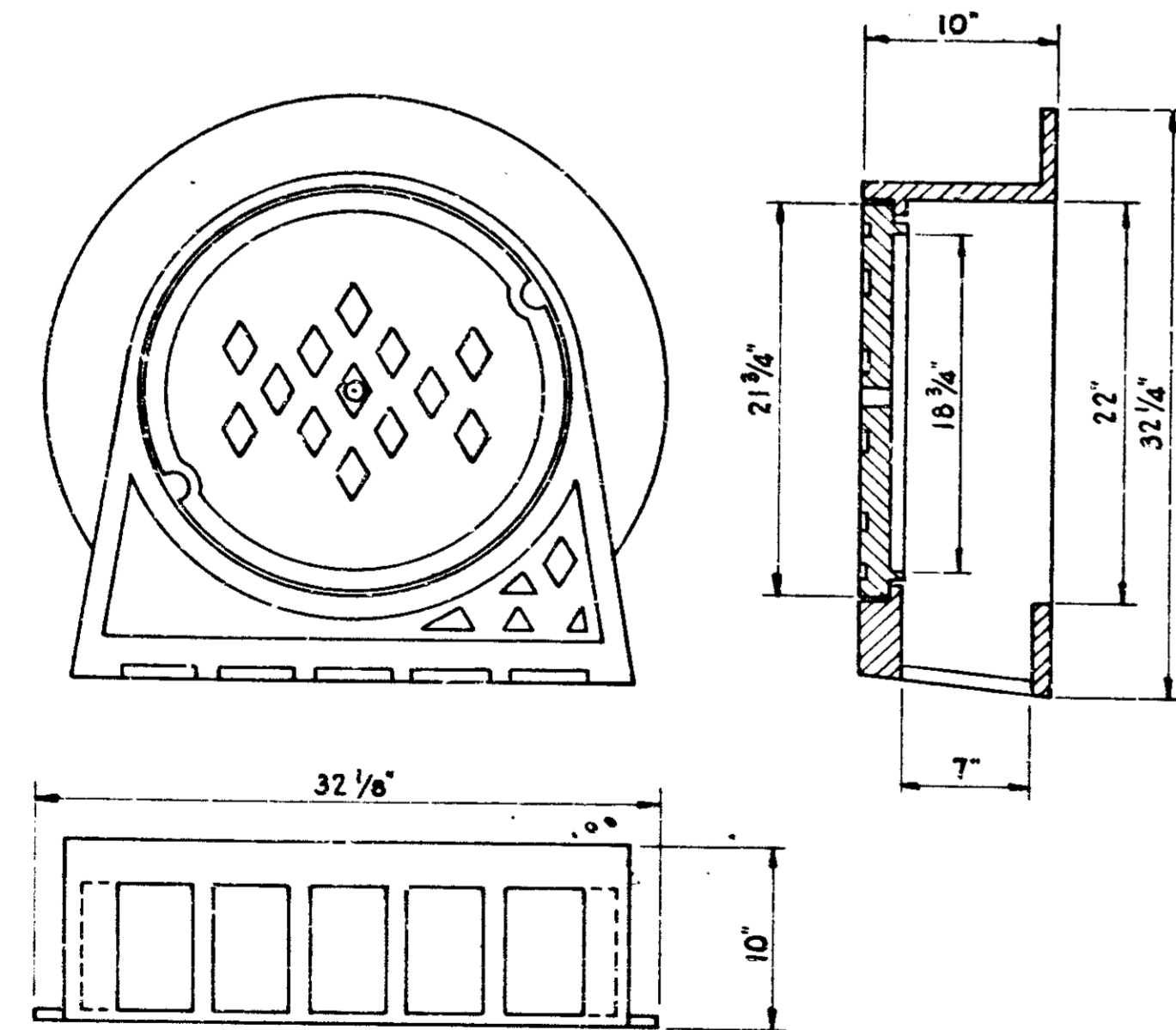


# INDIANAPOLIS SANITARY DISTRICT FACILITIES

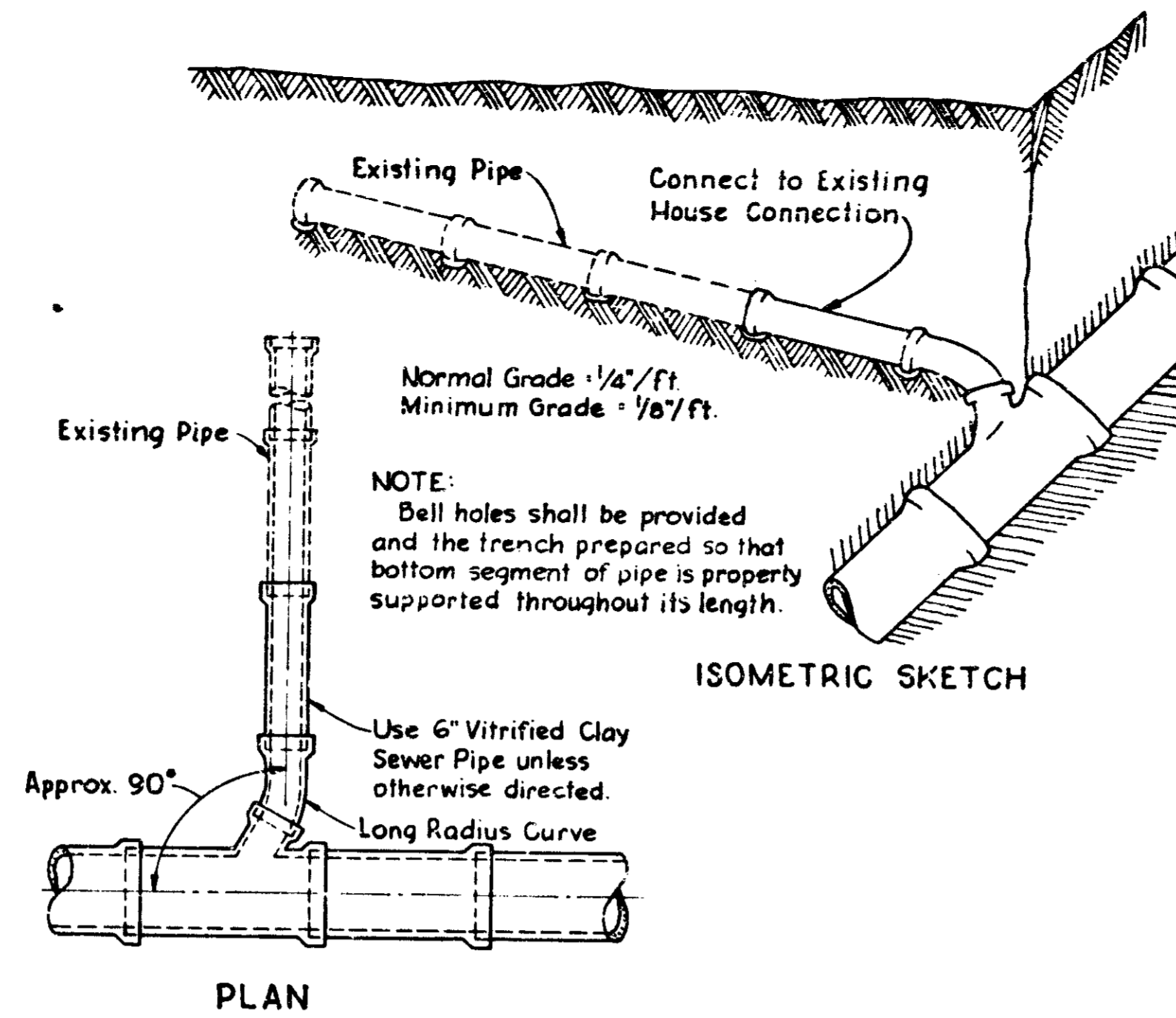
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3.31177	197	57	139



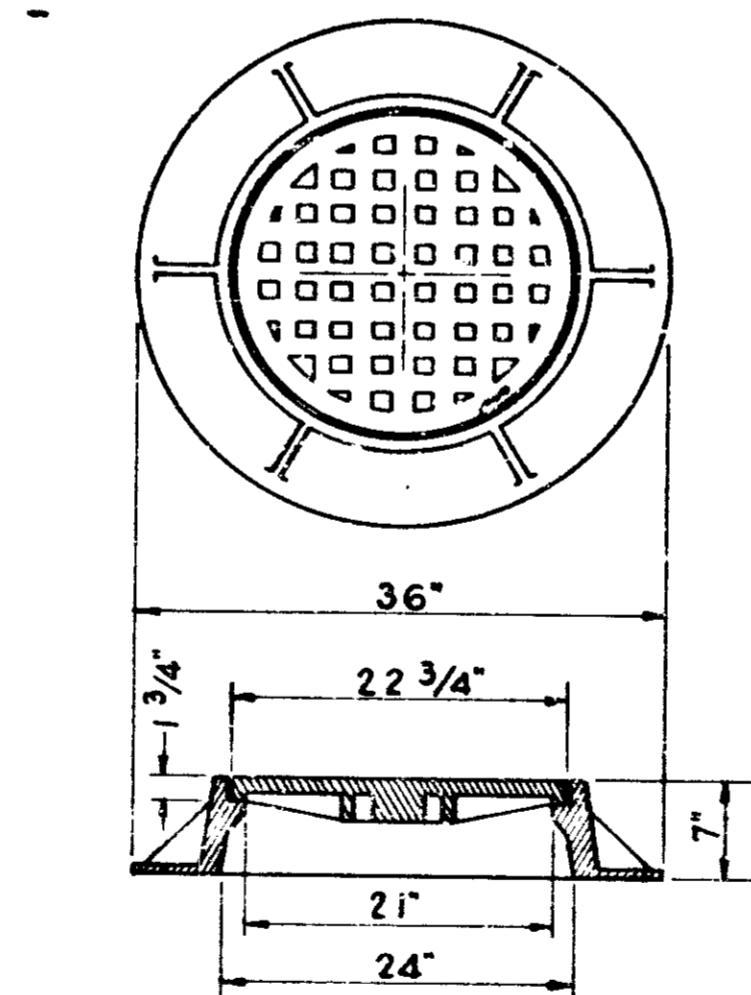
SECTION A-A  
SPECIAL INLET TYPE "T"  
SCALE: 1" = 1'-0"



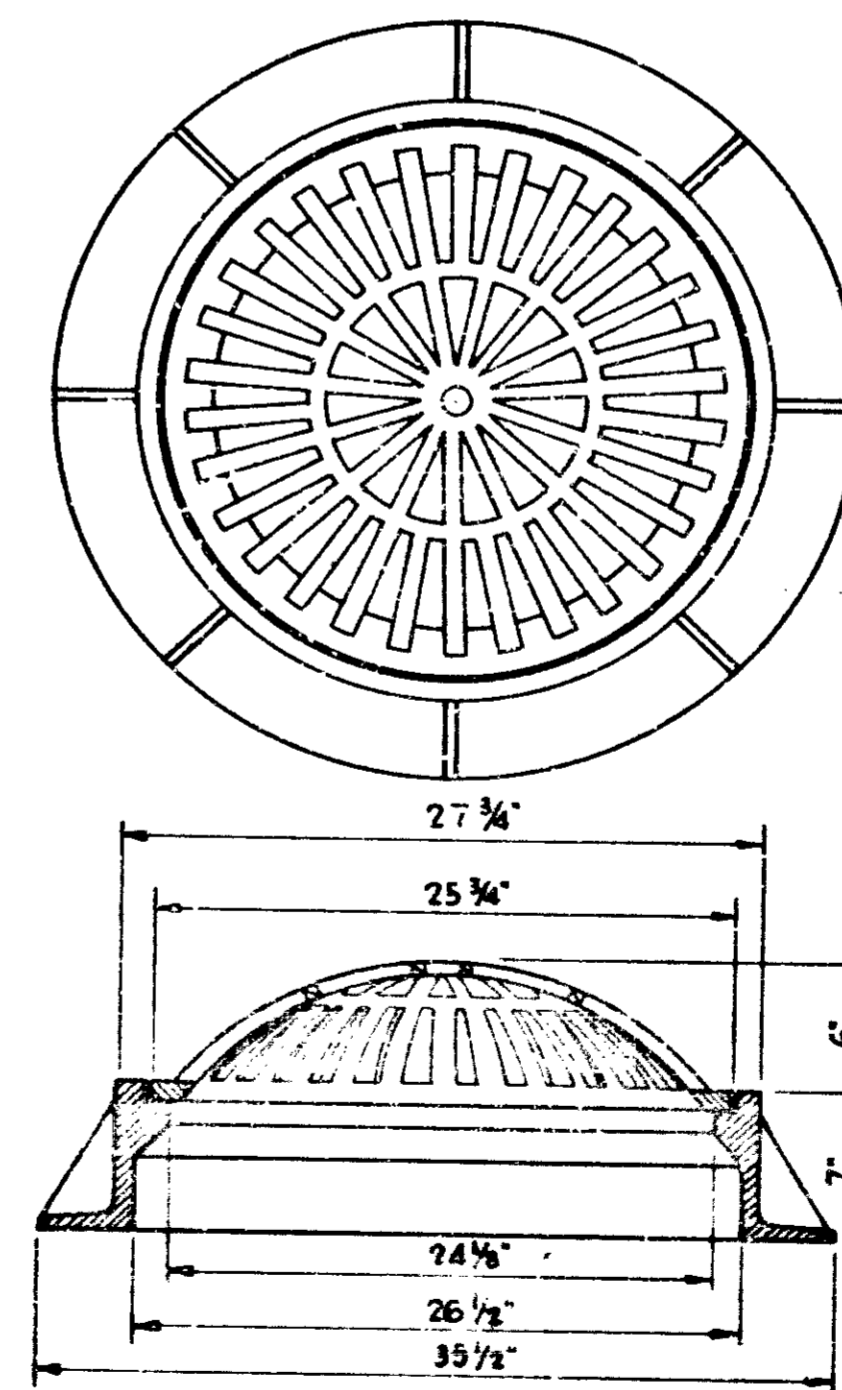
INLET OR CATCH BASIN FRAME & LID  
I.S.D. 3305  
SCALE: 1/2" = 1'-0"



HOUSE CONNECTION TO MAIN SEWER  
SCALE: DIAGRAMMATIC

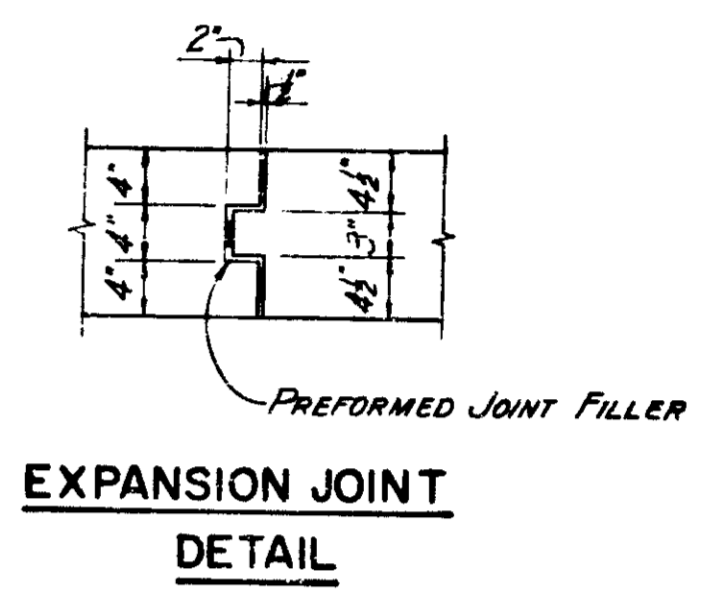
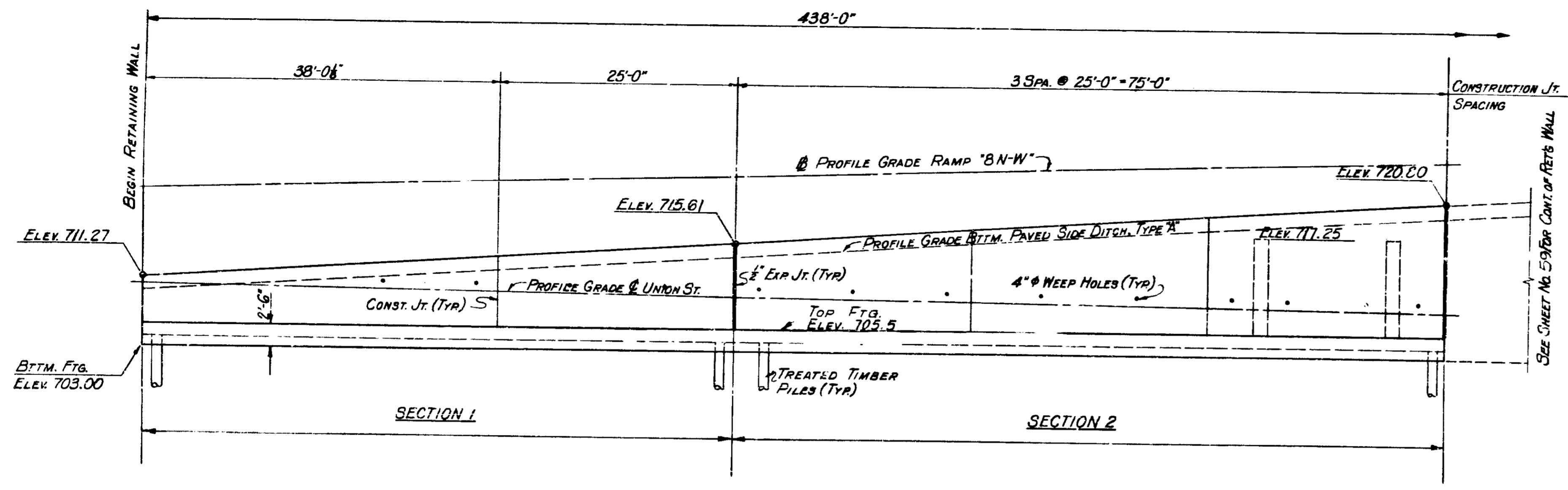


MANHOLE FRAME & COVER  
R-1772-G.V.H.  
SCALE: 1" = 1'-0"

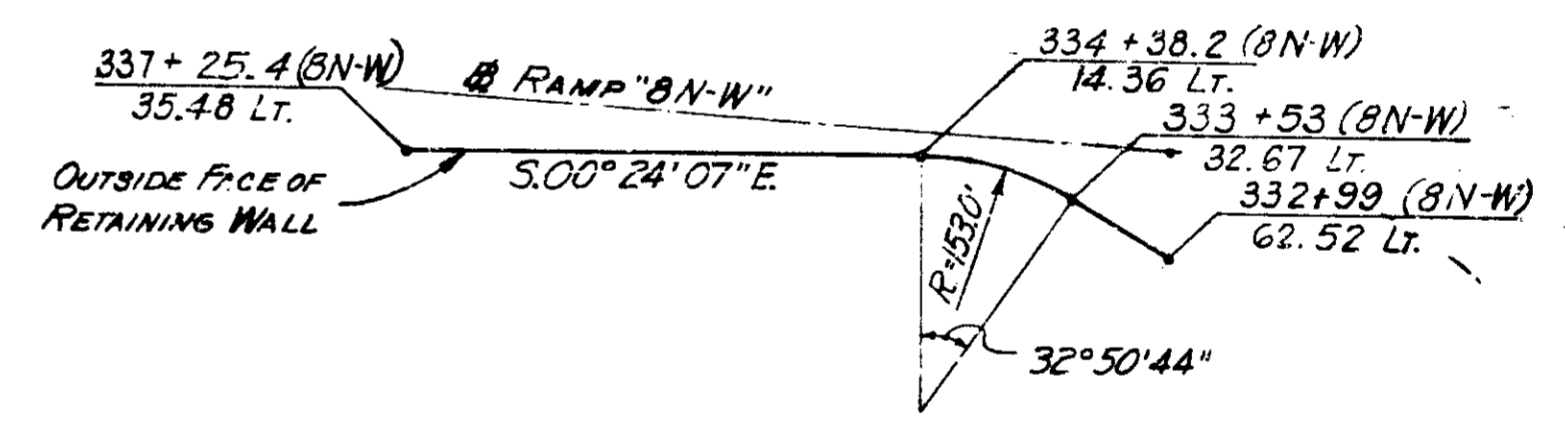
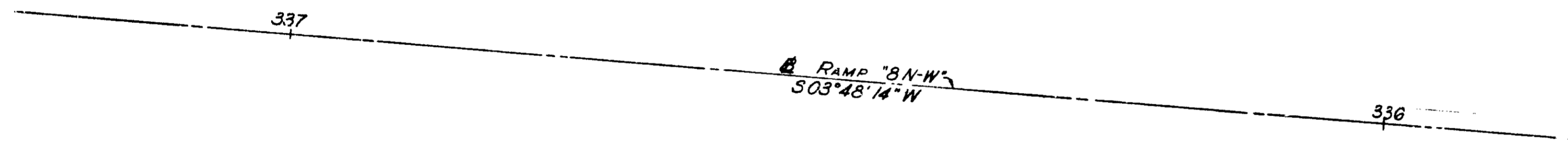
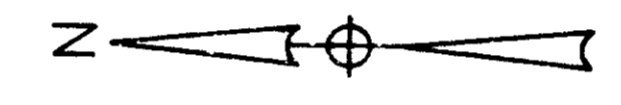


FRAME & GRATE (BEEHIVE)  
I.S.D. 2560 E1  
SCALE: 1/2" = 1'-0"

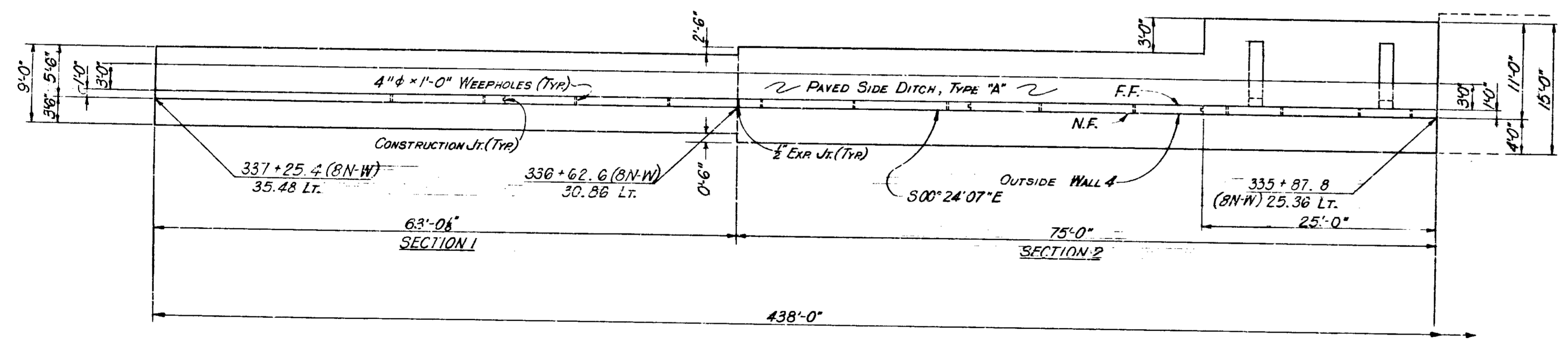
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-371 (17)	197	58	139



**PART ELEVATION**



**TIE-UP SKETCH**



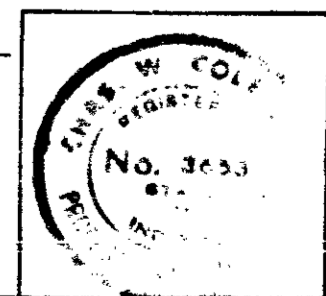
**PART PLAN**

**RETAINING WALL 4  
GENERAL ARRANGEMENT  
INDIANA STATE HIGHWAY COMMISSION**

SCALE: NONE

SUBMITTED FOR APPROVAL: *Charles D. Kelly* 3-29-71

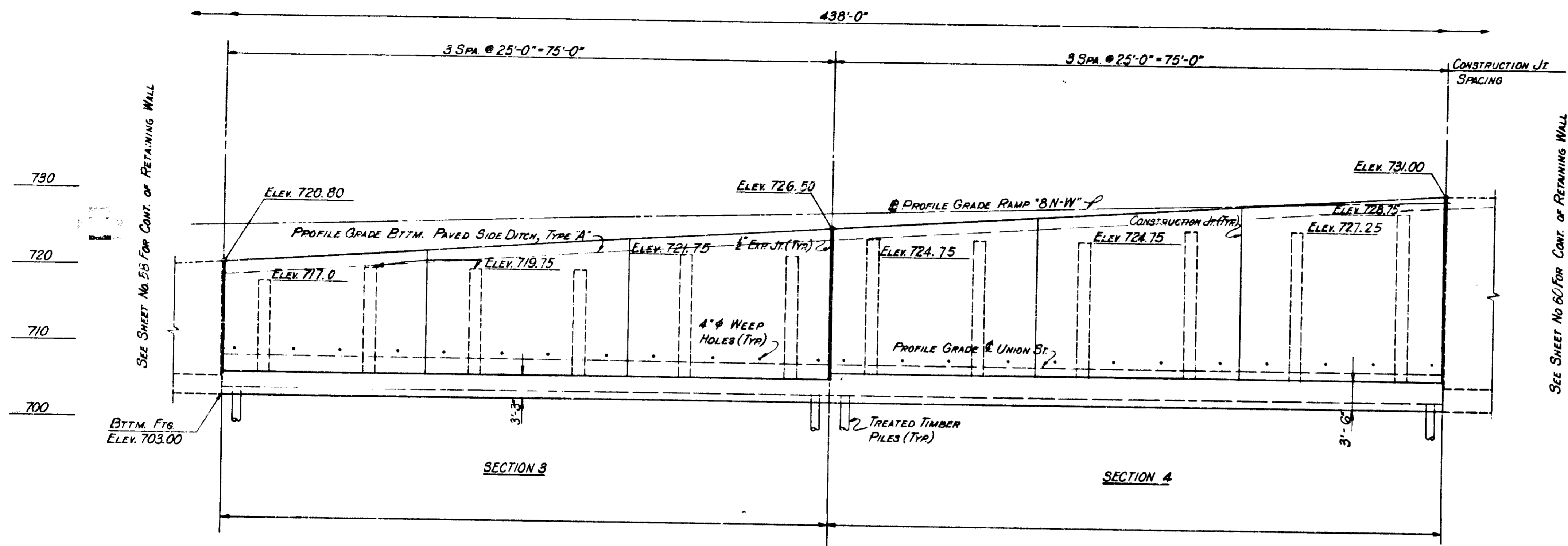
1971



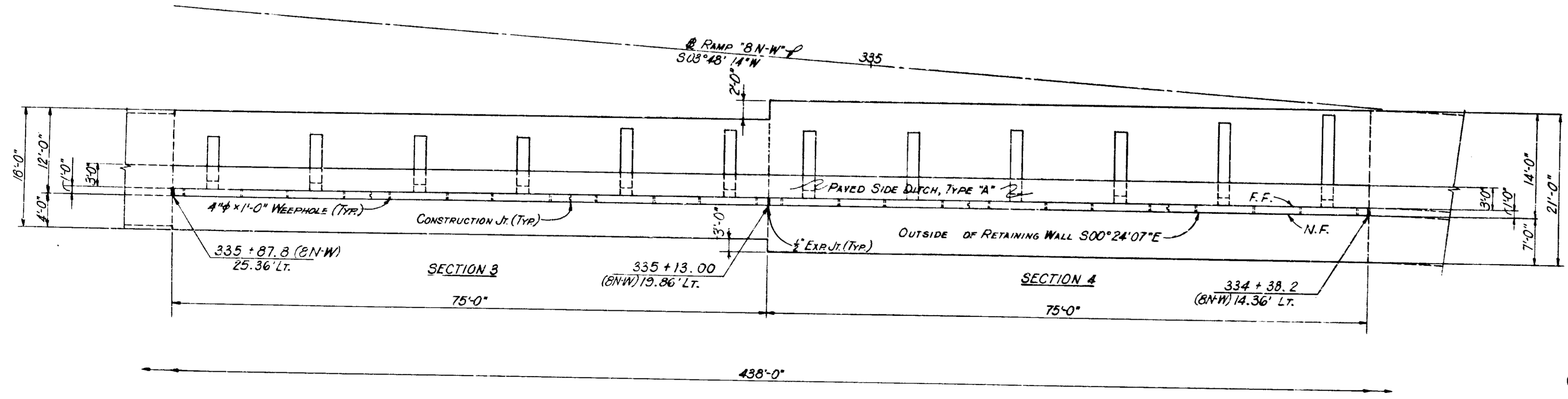
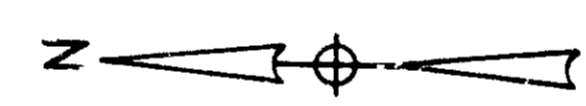
GNED.	CKD
WN.	CKD
ED.	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-371 (17)		58	139	

BRIDGES OVER 20' SPAN					
PUR. ROAD	STATE	PROJECT	FISCAL	SHEET	TOTAL
NO.		NO.	YEAR	NO.	SHEETS
5	IND.	1-70-3 (11) 77	197	59	139



**PART ELEVATION**



**PART PLAN**

**GENERAL NOTES**

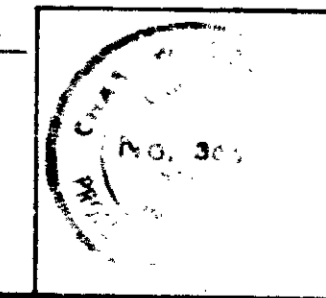
1. Untreated timber piles shall have minimum bearing bearing value as shown on detail drawings determine pile length by Article 701 of the specifications.
2. Reinforcing steel covering shall be 3 inches in footing except bottom steel which shall be 4 inches and 2 inches in all other parts unless noted.
3. Concrete in footings, walls, and counterforts to be Class 'A'.
4. Chamfer exposed edges 1 inch unless noted.
5. Tolerance in position of piles head maximum 1/2 inch.
6. Weep holes are to be placed at 10'-0"  $\%c$  maximum and two (2) are to be placed between each counterfort.
7. Drains are to be 4 inches plus or minus in diameter. Cost of drain material to be included in cost of concrete. See Bridge Standard C1.

**RETAINING WALL 4  
GENERAL ARRANGEMENT  
INDIANA STATE HIGHWAY COMMISSION**

SCALE: -NONE

SUBMITTED FOR APPROVAL: *[Signature]* 3-22-71

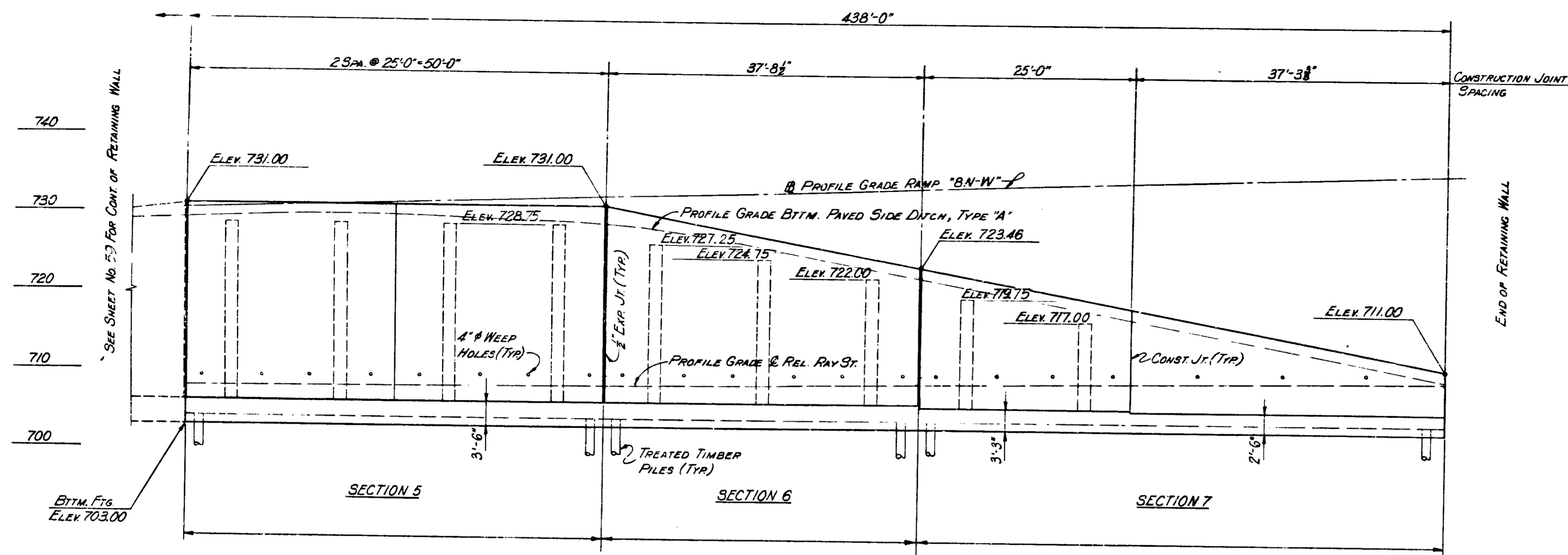
1971



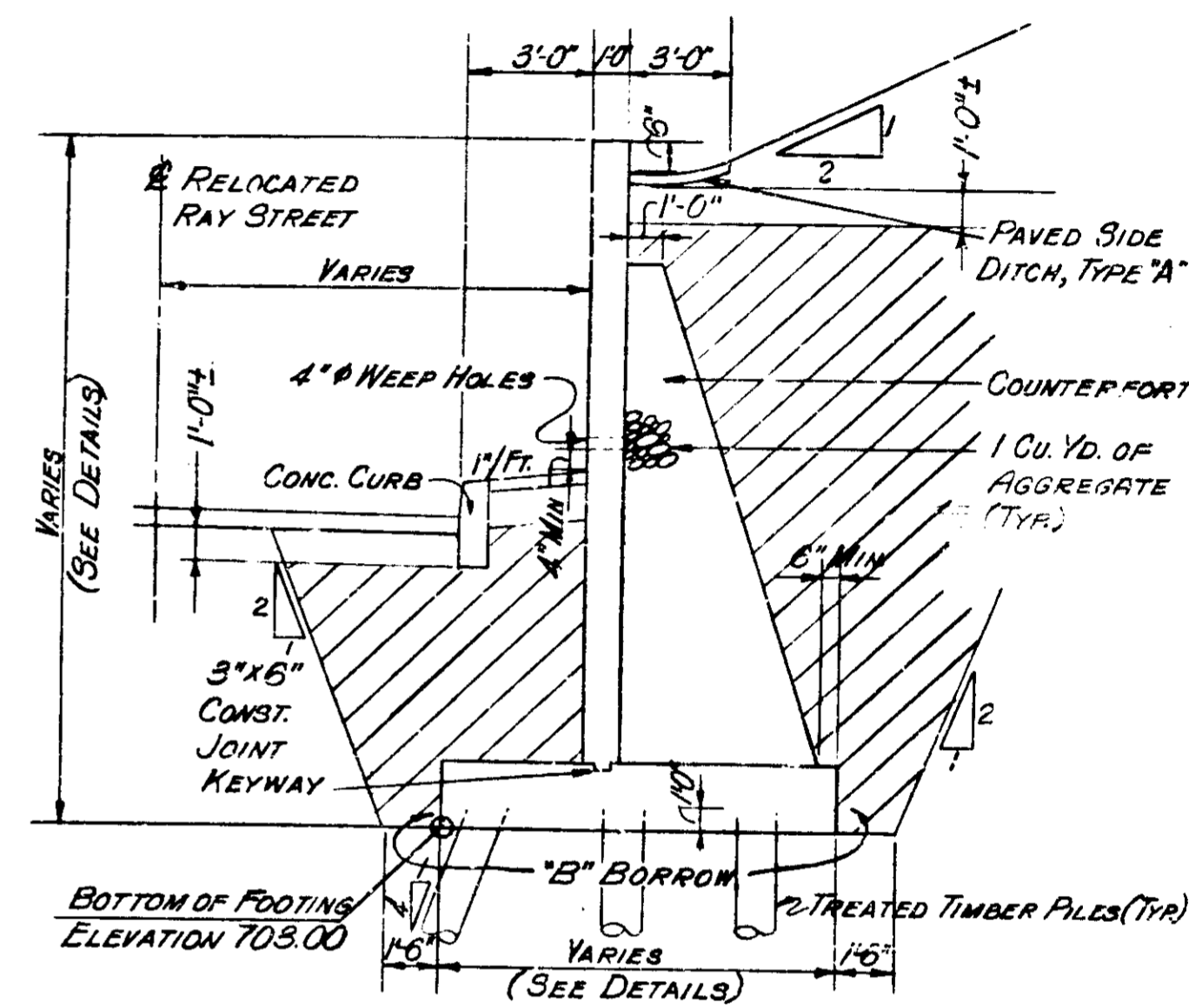
DESIGNED	CKD
DRAWN	CKD
PLACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (11) 77		59	139	

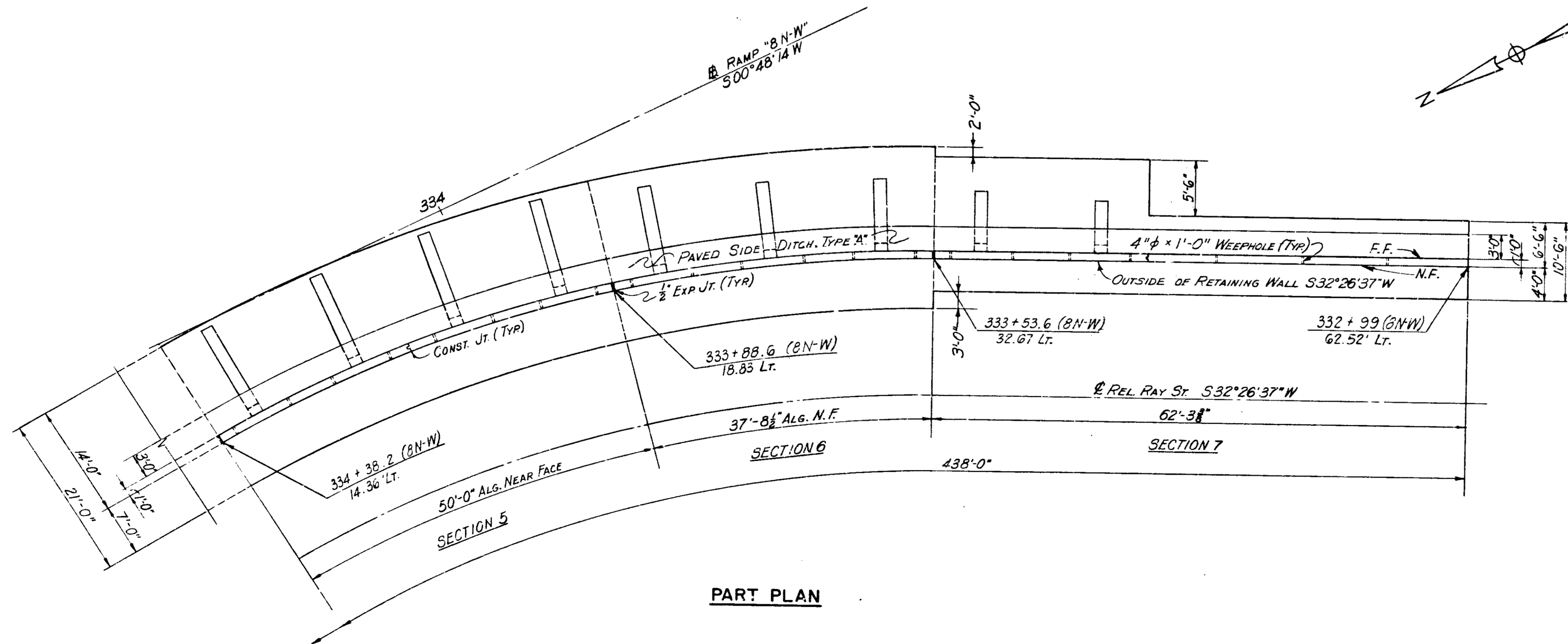
BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (11) 11	1971	60	139



PART ELEVATION



TYPICAL SECTION



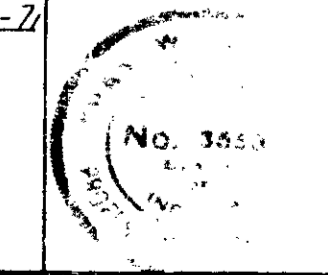
PART PLAN

RETAINING WALL 4  
GENERAL ARRANGEMENT  
INDIANA STATE HIGHWAY COMMISSION

SCALE: -NONE  
SUBMITTED FOR APPROVAL: *[Signature]* 3-21-71

1971

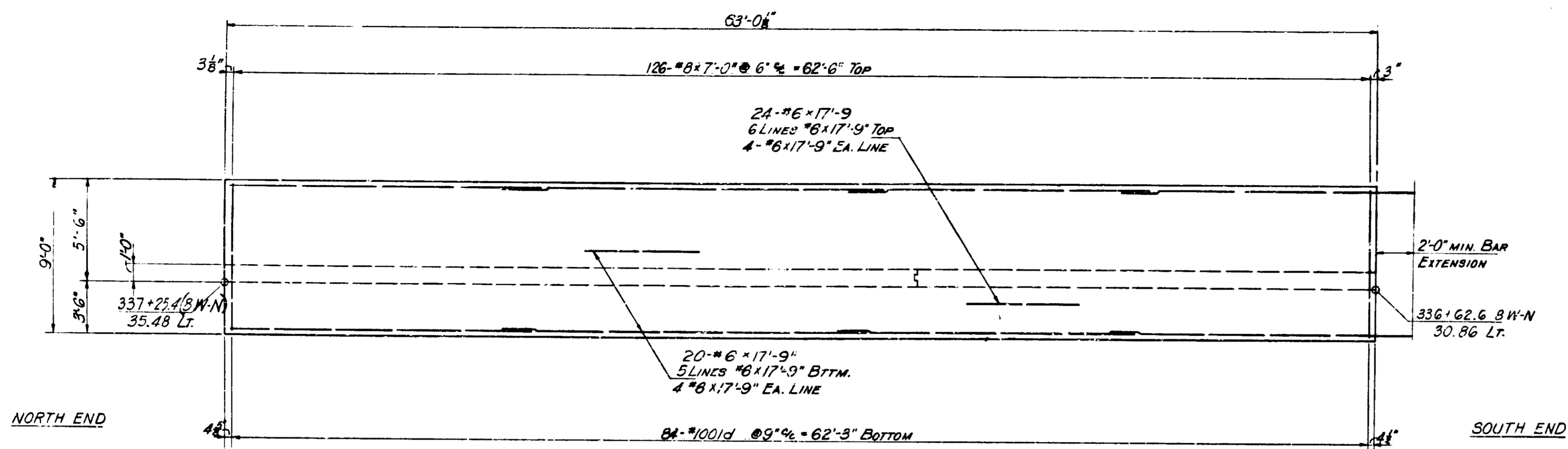
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD



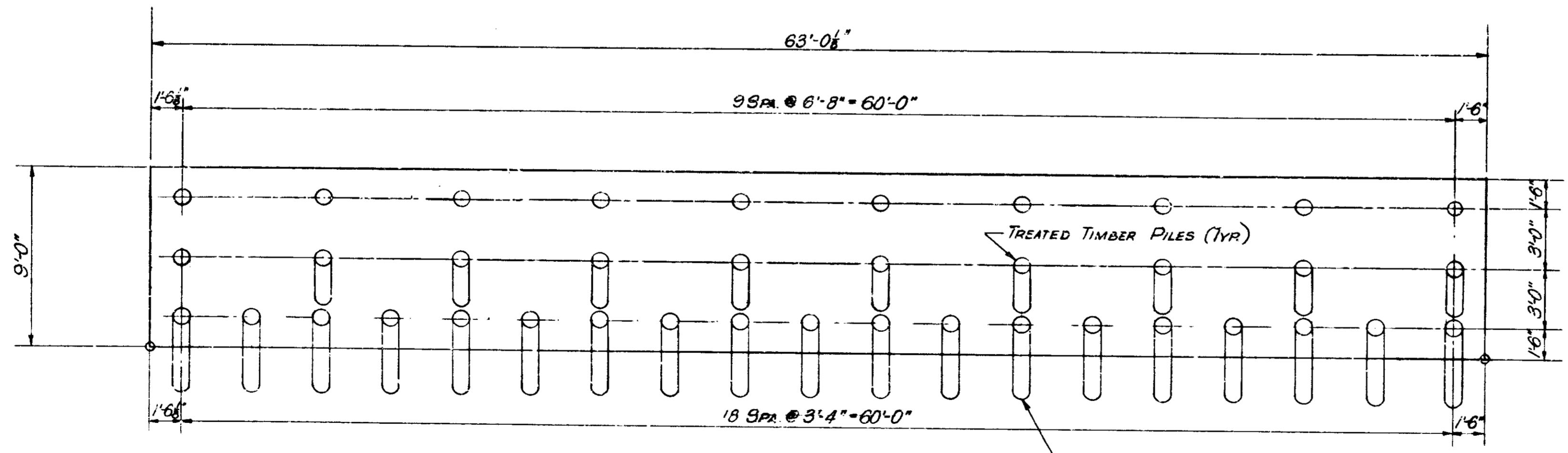
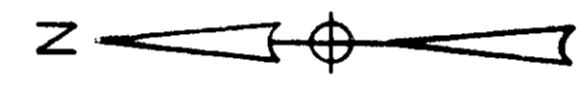
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	TITLE
1-70-3 (11) 11		60	139	



BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
5	IND.	1-70-3 (71) 77	1971	61
				139



FOOTING PLAN



PILE PLAN

ALL PILES FRONT & SECOND ROWS  
BATTER PILES - BATTER 4:1 AWAY  
FROM N.F. OF WALL. (TYPICAL)

39 TREATED TIMBER PILES ARE TO BE DRIVEN TO 25 TON  
MINIMUM BEARING CAPACITY.

NOTES:  
SEE SHEET NO. 53 FOR GEN. ARRANGEMENT OF RETAINING WALL NO. 4.  
SEE SHEET NO. 10 FOR LOCATION OF RETAINING WALL NO. 4.  
SEE SHEET NO. 70 FOR REINFORCING BAR DIAGRAMS.  
SEE SHEET NO. 50 FOR BILL OF MATERIALS.  
SEE SHEET NO. 22 FOR ELEVATION OF SECTION 1, RETAINING WALL NO. 4.

RETAINING WALL 4 SECTION I DETAILS  
INDIANA STATE HIGHWAY COMMISSION

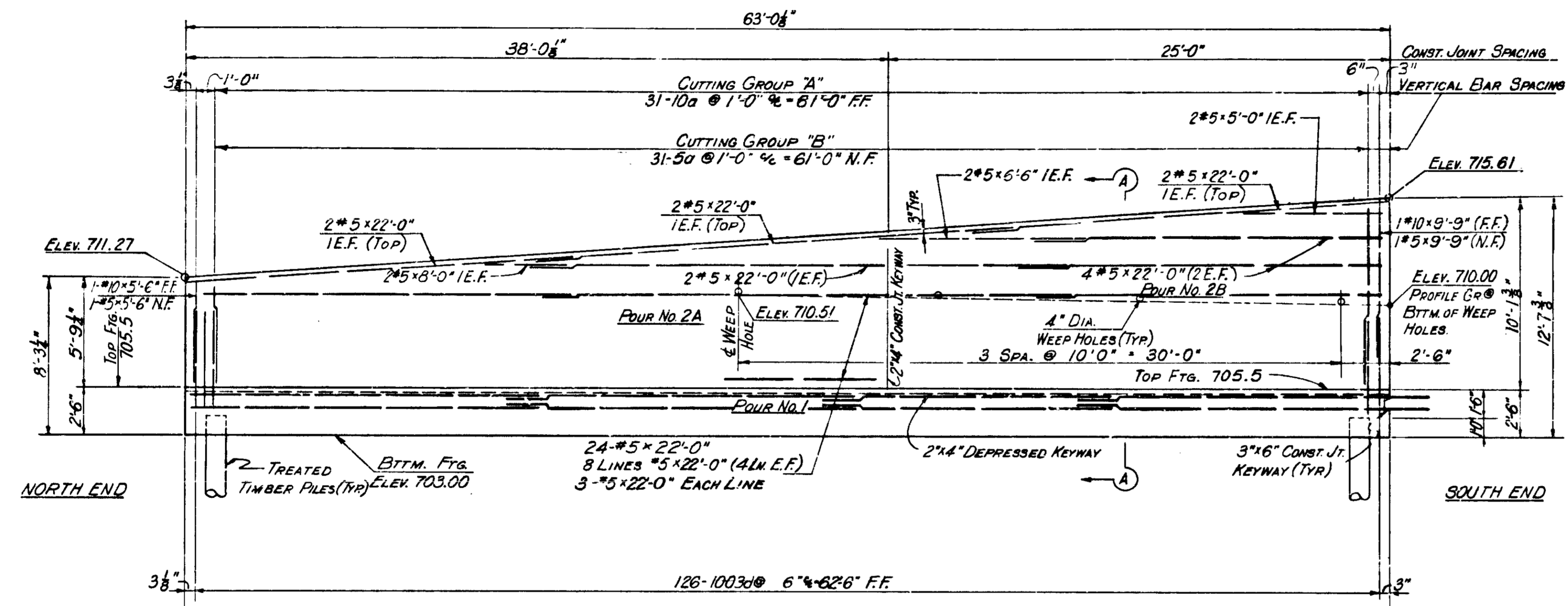
SCALE: - NONE  
SUBMITTED FOR APPROVAL: *[Signature]* 3-21-71

1971

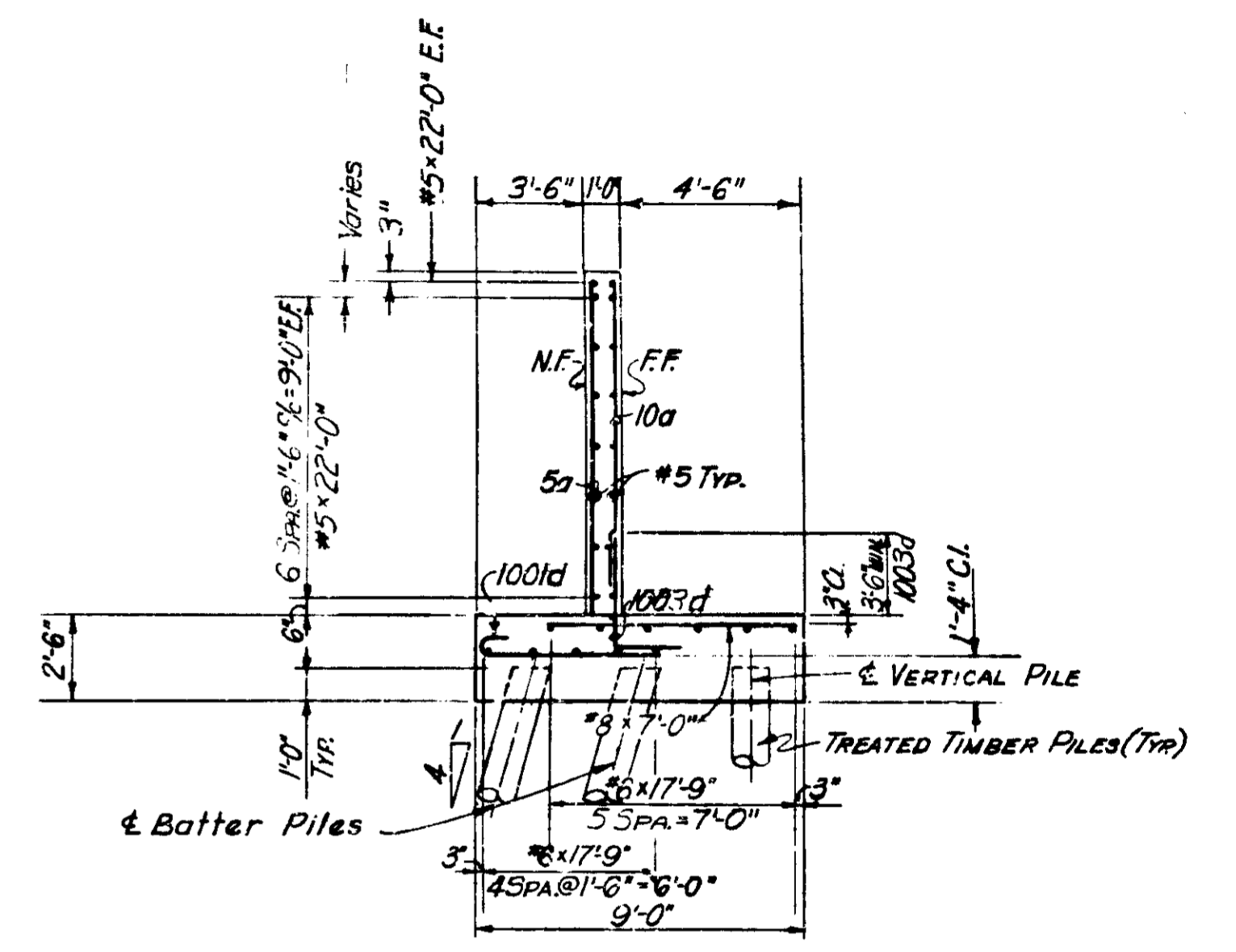
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (71) 77		6	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (70.77)	197	62	139



**ELEVATION**



**SECTION A-A**

Treated Timber Piles are to be driven to 25 tons minimum bearing capacity.

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET No. 61 FOR PLAN SECTION I, RETAINING WALL No. 4.

**RETAINING WALL 4 SECTION I DETAILS  
 INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

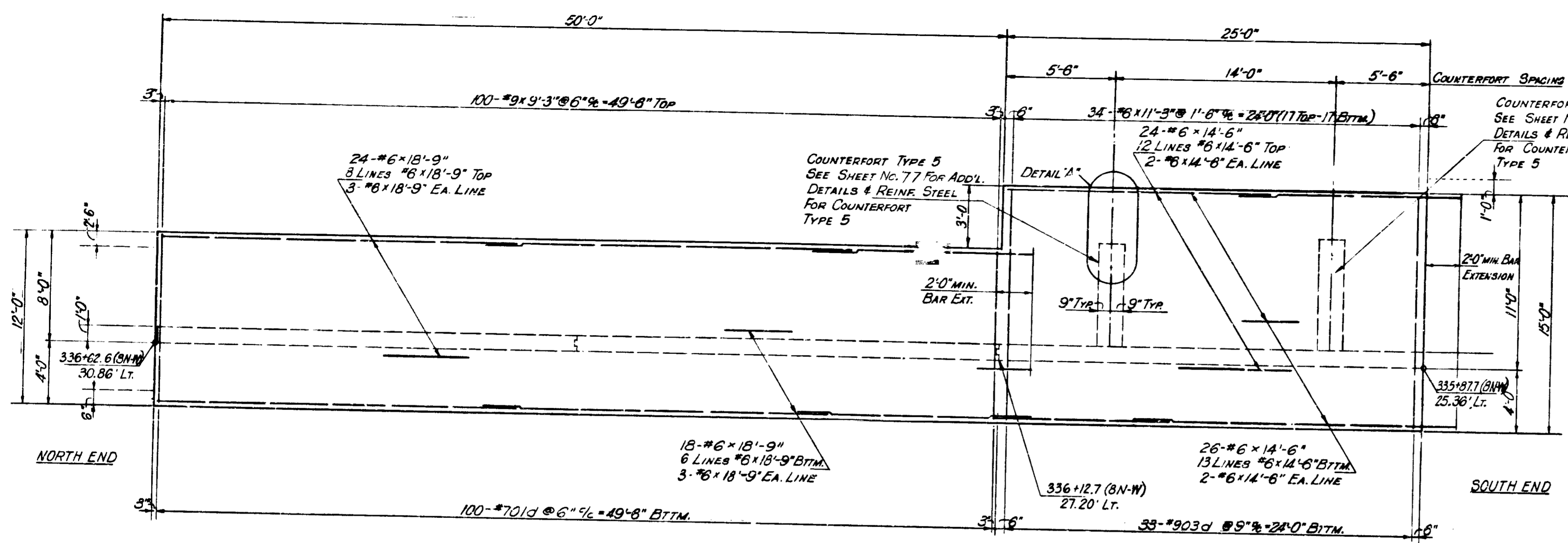
SUBMITTED FOR APPROVAL: *[Signature]* 3-29-71

1971

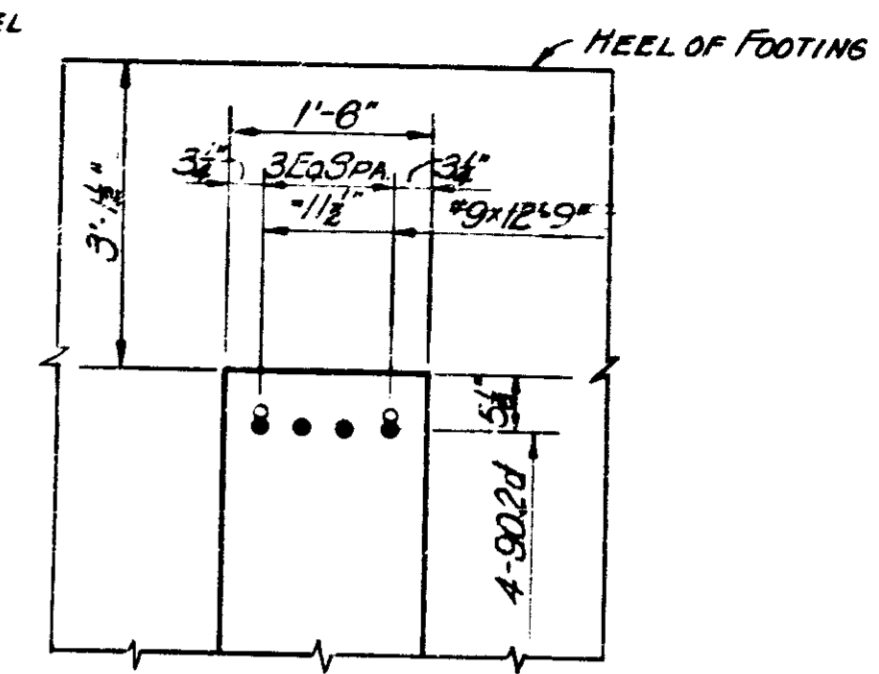
DESIGNED	C.K.D.
DRAWN	C.K.D.
TRACED	C.K.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (70.77)		62	139	

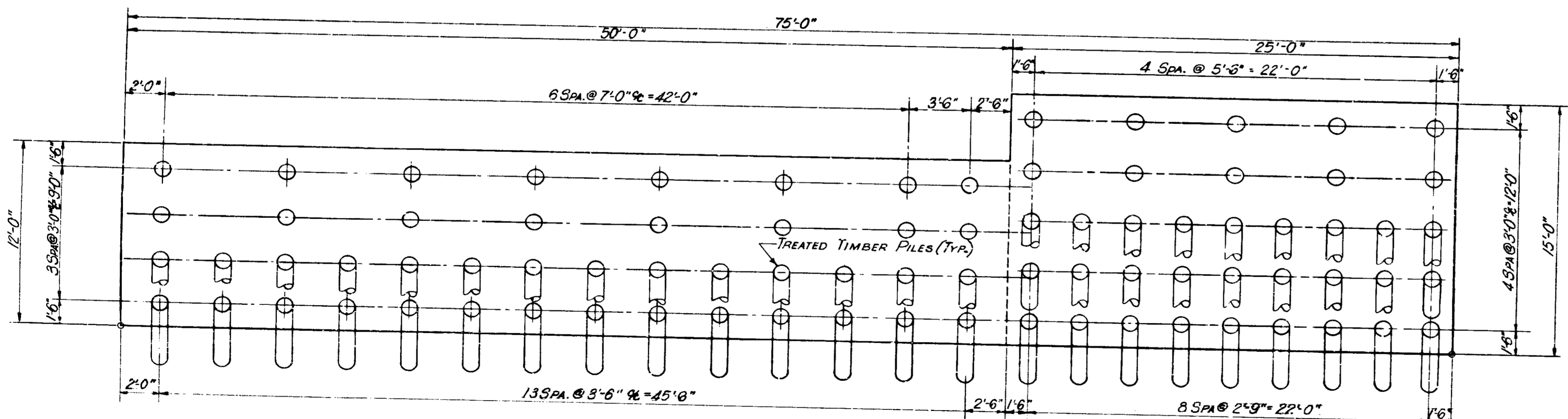
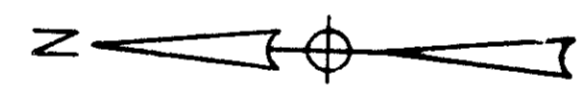
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
E	IND	1-70-3 (71) 77	197	63	139



**FOOTING PLAN**



**DETAIL "A"**



**PILE PLAN**

NOTE: BATTER PILES 4:1 AWAY FROM NEAR FACE OF RETAINING WALL. 81 TREATED TIMBER PILES ARE TO BE DRIVEN TO 25 TON MINIMUM BEARING CAPACITY.

FOR ADDITIONAL DETAILS & REINF. STEEL EXTENDING FROM FOOTING FOR COUNTERFORT TYPES 5 SEE SHEET NO. 77

NOTES:  
 SEE SHEET NO. 53 FOR GEN. ARRANGEMENT OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 13 FOR LOCATION OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 77 FOR COUNTERFORT DETAILS.  
 SEE SHEET NO. 79 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET NO. 80 FOR BILL OF MATERIALS.  
 SEE SHEET NO. 64 FOR ELEVATION OF SECTION 2, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 2 DETAILS  
 INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

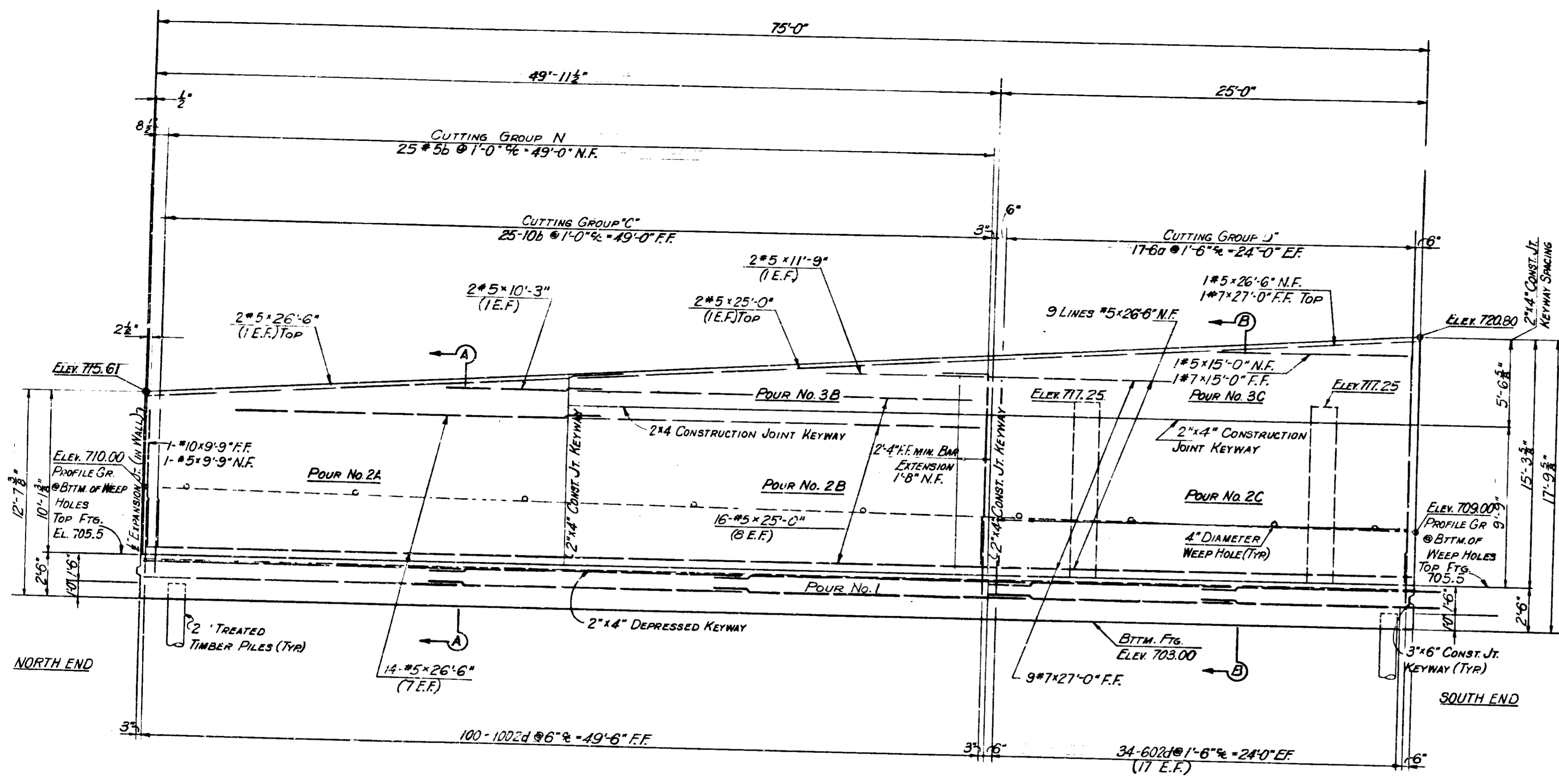
SUBMITTED FOR APPROVAL: *[Signature]* 3-27-71

1971

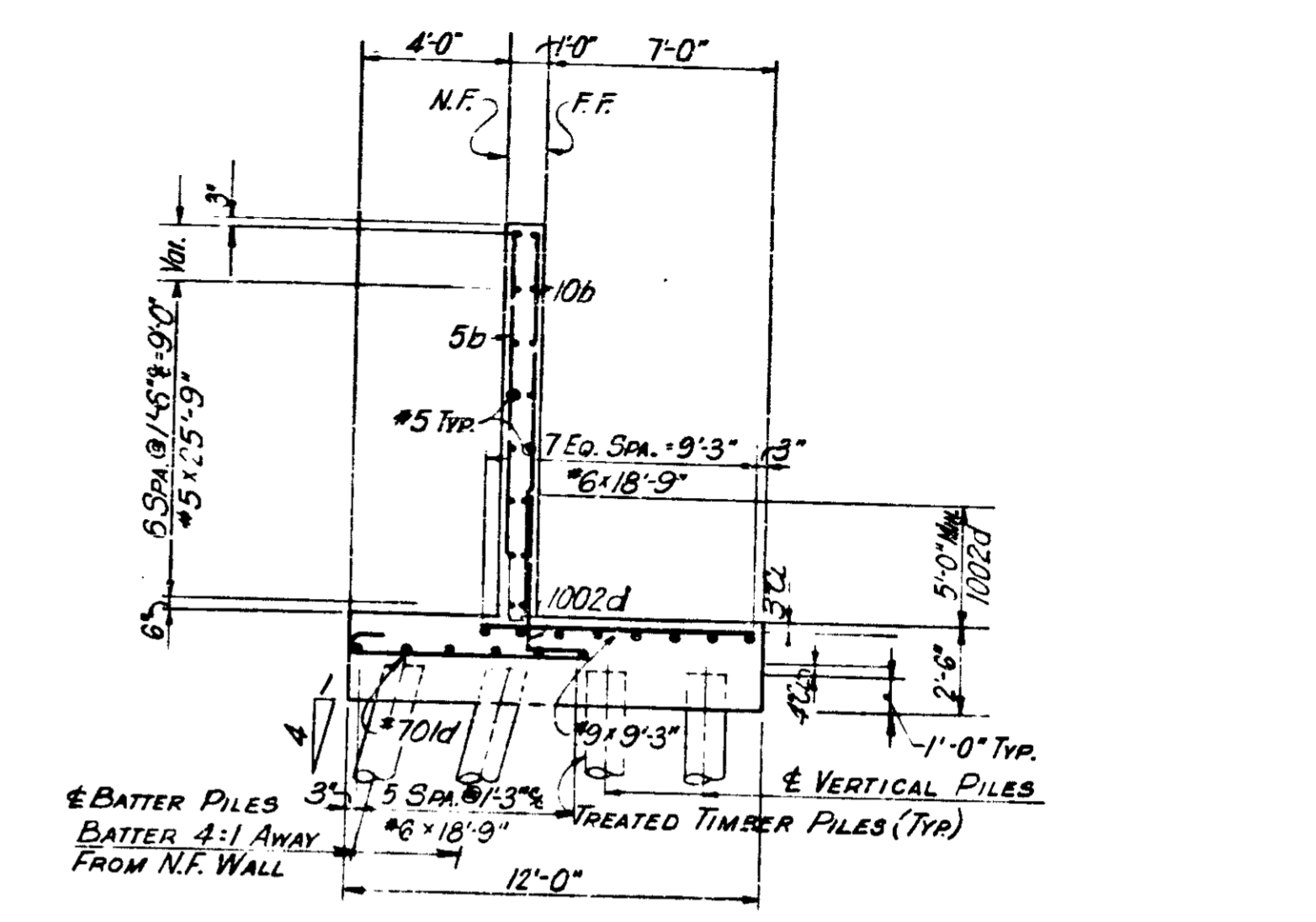
DESIGNED: C.K.D.  
 DRAWN: C.K.D.  
 TRACED: C.K.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (71) 77		63	139	

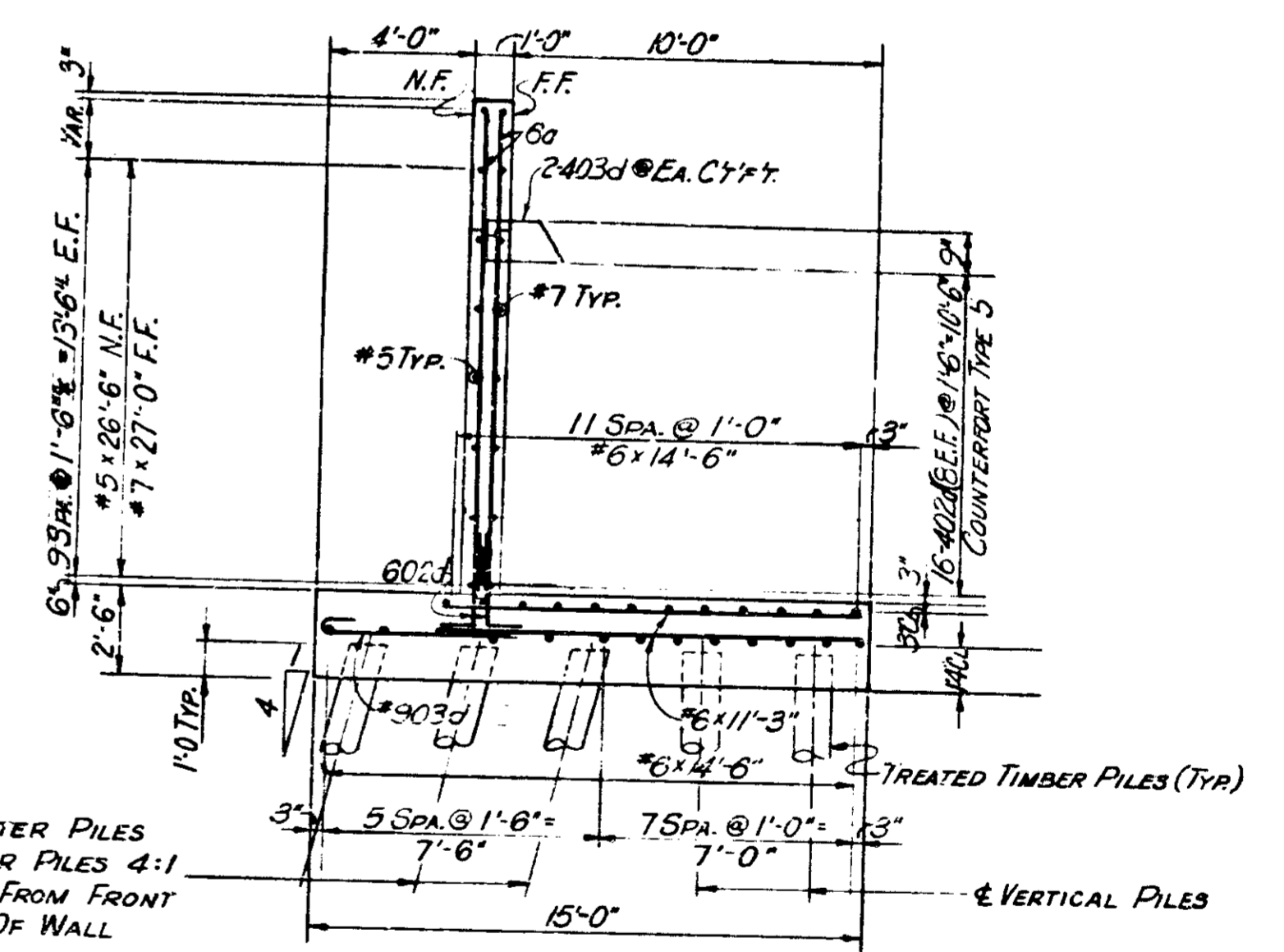
BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 71(77)	197	64	139



**ELEVATION**



**SECTION A-A**



**SECTION B-B**

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET NO. 63 FOR PLAN OF SECTION 2, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 2 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

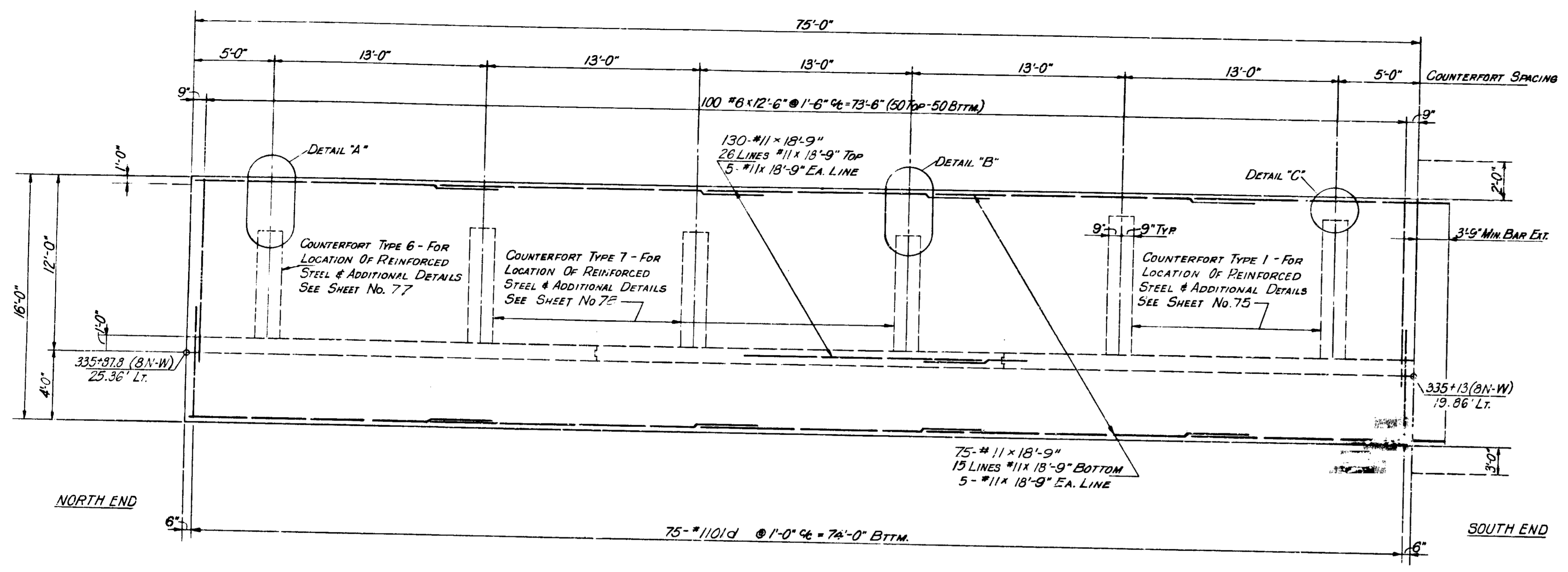
SUBMITTED FOR APPROVAL: *[Signature]* 3-21-71

1971

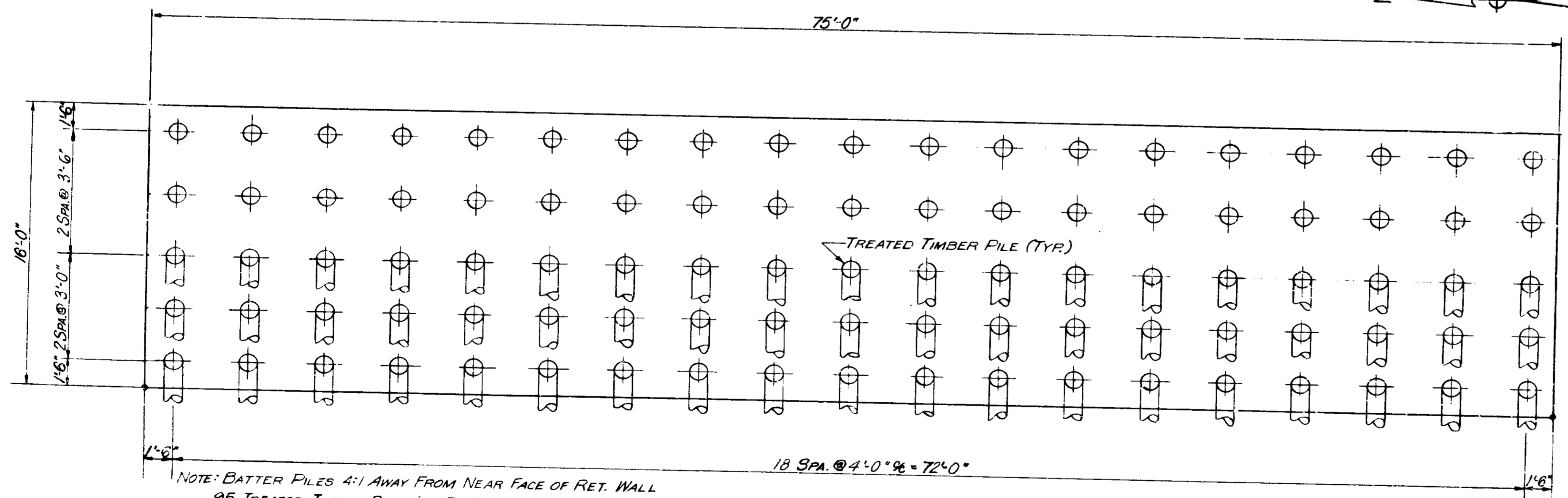
GNED.	CKD.
HN.	CKD.
ED.	CKD.

PROJECT NO.	LINE NO.	SHEET NO.	TOTAL SHEETS	FILE
1-70-3/7077		64	139	

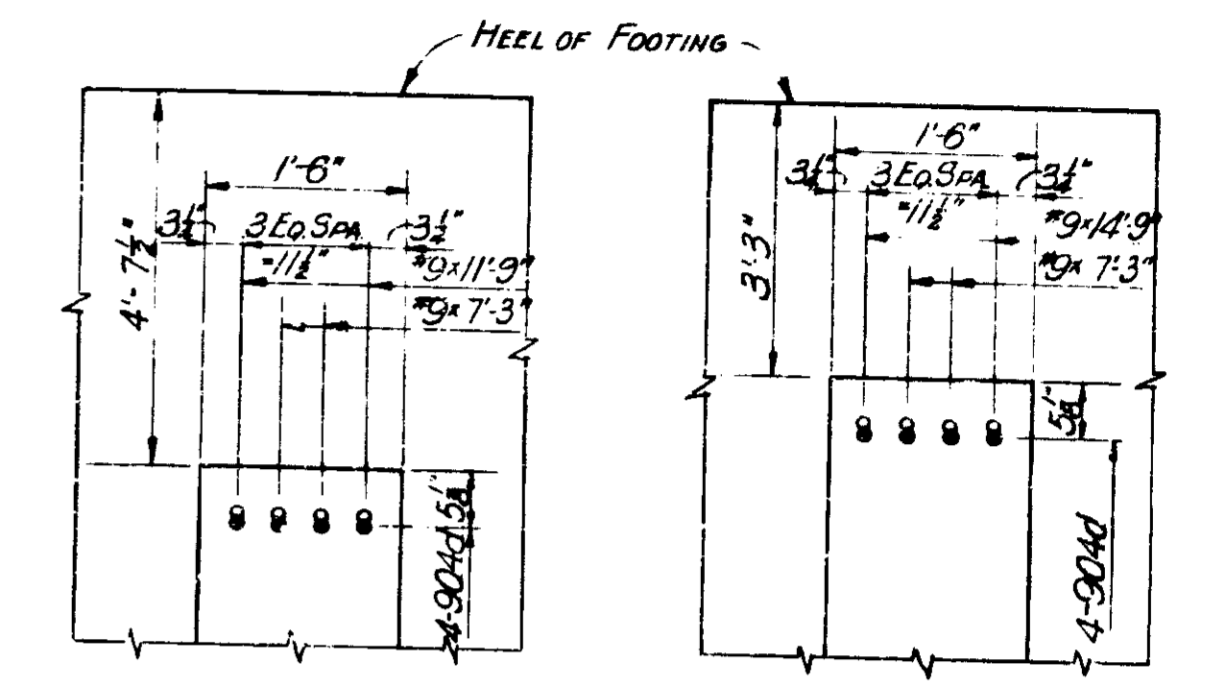
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (71) TT	197	65	139



**FOOTING PLAN**

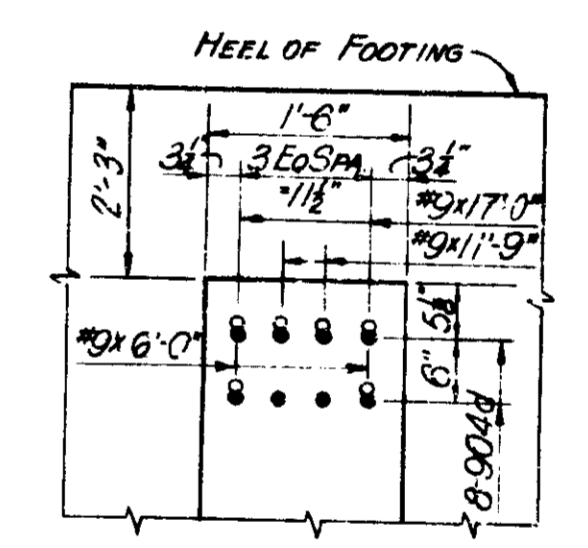


**PILE PLAN**



**DETAIL "A"**

**DETAIL "B"**



**DETAIL "C"**

NOTES:  
 SEE SHEET No. 59 FOR GEN. ARRANGEMENT OF RETAINING WALL No. 4.  
 SEE SHEET No. 10 FOR LOCATION OF RETAINING WALL No. 4.  
 SEE SHEET Nos. 75, 77 & 78 FOR COUNTERFORT DETAILS.  
 SEE SHEET No. 79 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET No. 80 FOR BILL OF MATERIALS.  
 SEE SHEET No. 66 FOR ELEVATION OF SECTION 3, RETAINING WALL No. 4.

**RETAINING WALL 4 SECTION 3 DETAILS  
 INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

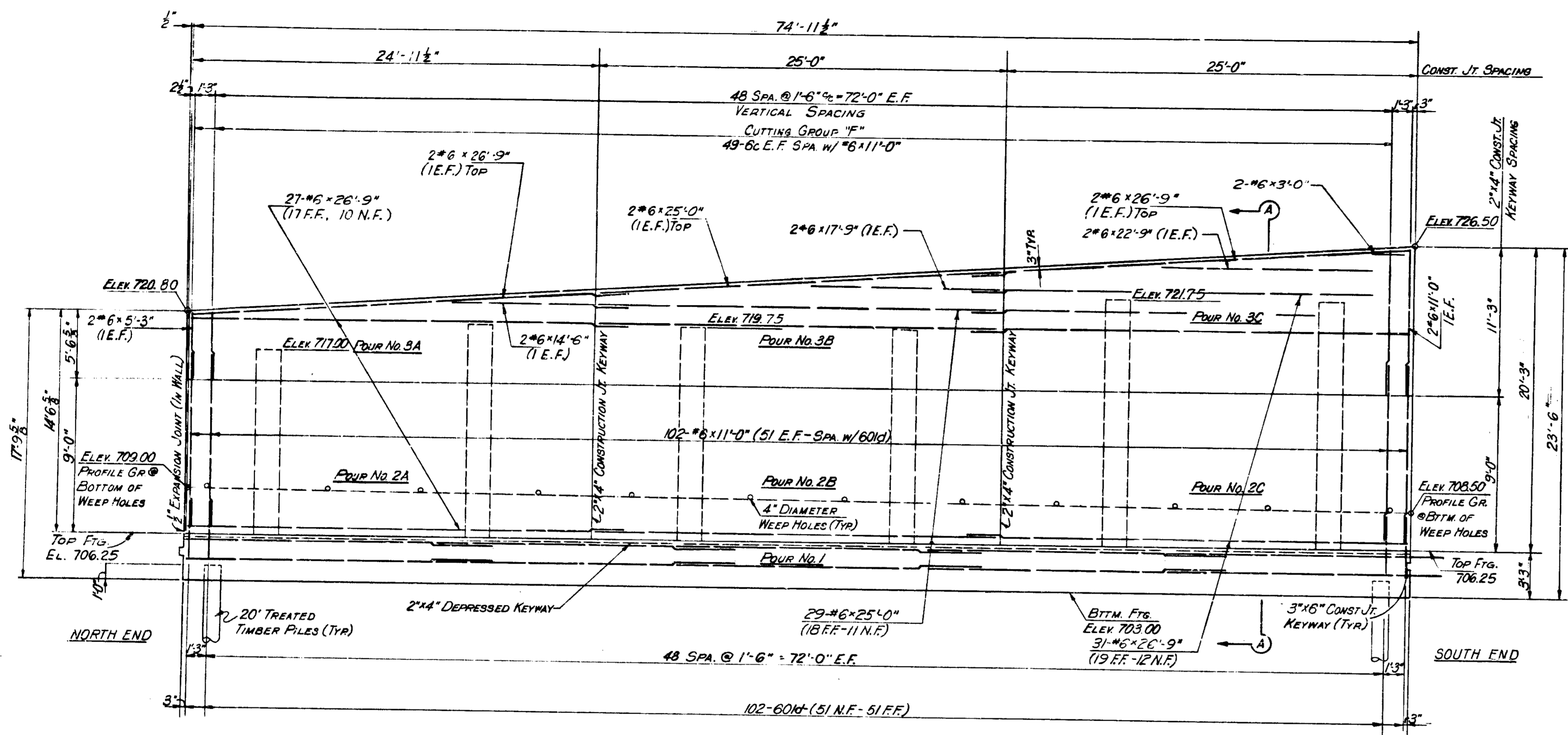
SUBMITTED FOR APPROVAL: *[Signature]* 3-22-71

1971

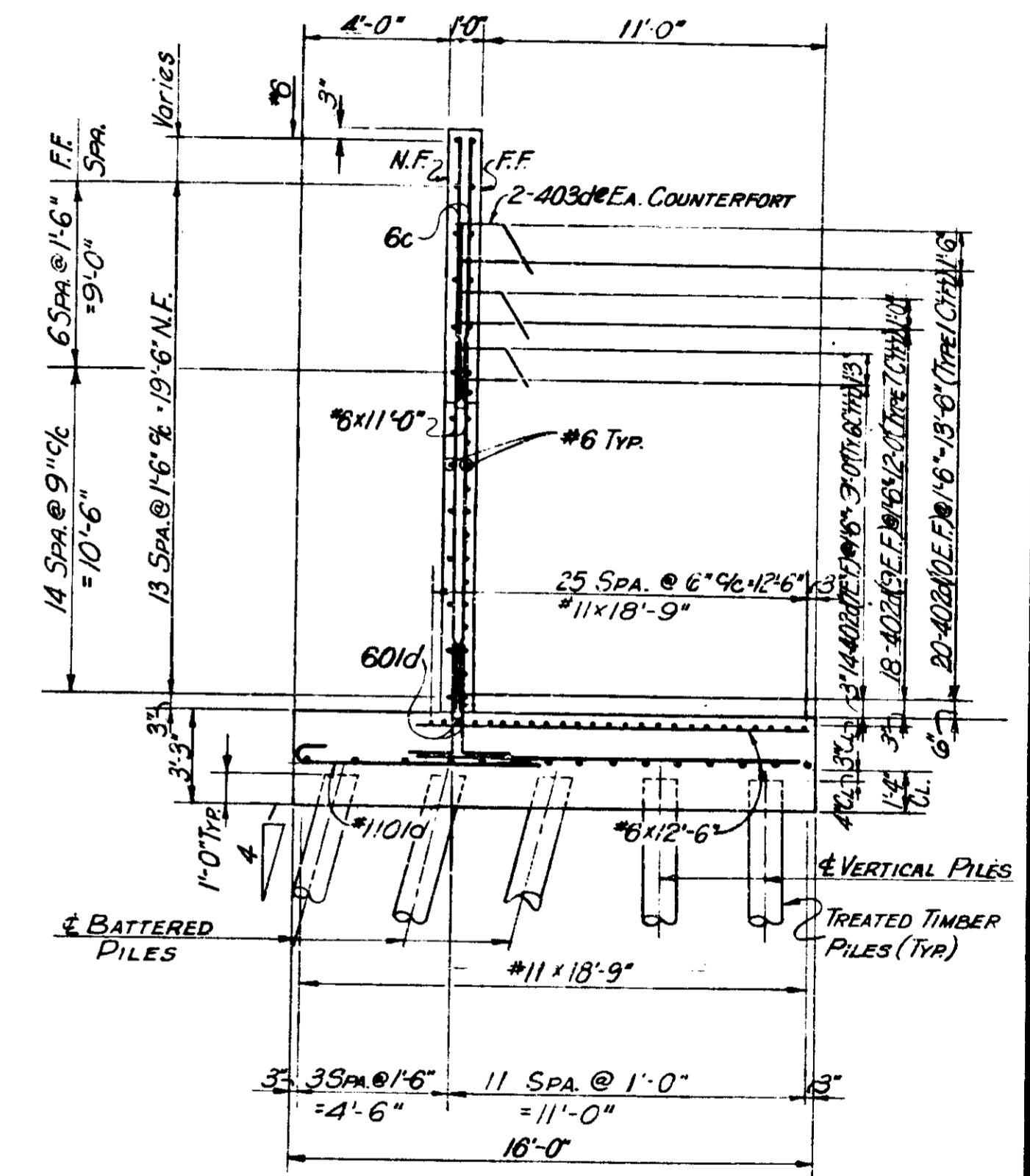
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (71) TT		65	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-78-3	197	66	139



ELEVATION



SECTION A-A

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET No. 65 FOR PLAN OF SECTION 3, RETAINING WALL No. 4.

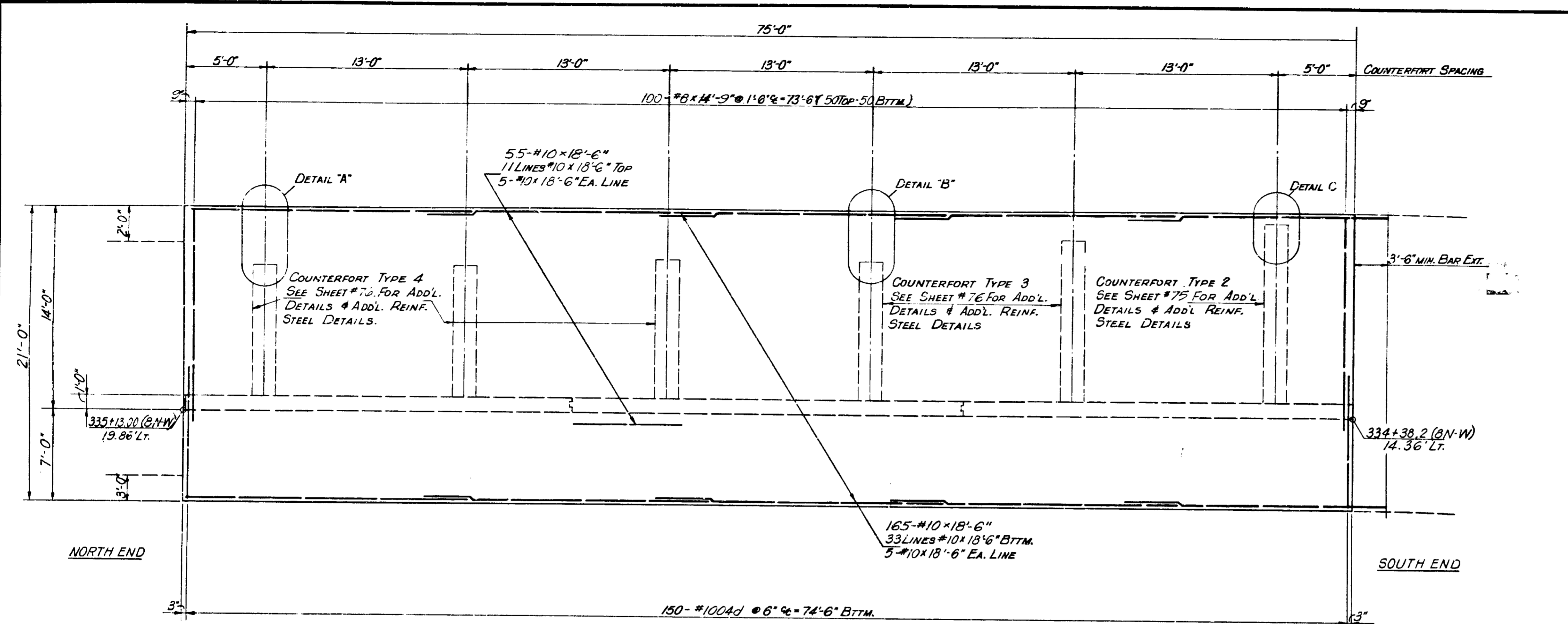
RETAINING WALL 4 SECTION 3 DETAILS  
 INDIANA STATE HIGHWAY COMMISSION

SCALE: - NONE  
 SUBMITTED FOR APPROVAL: *[Signature]* 5-29-71

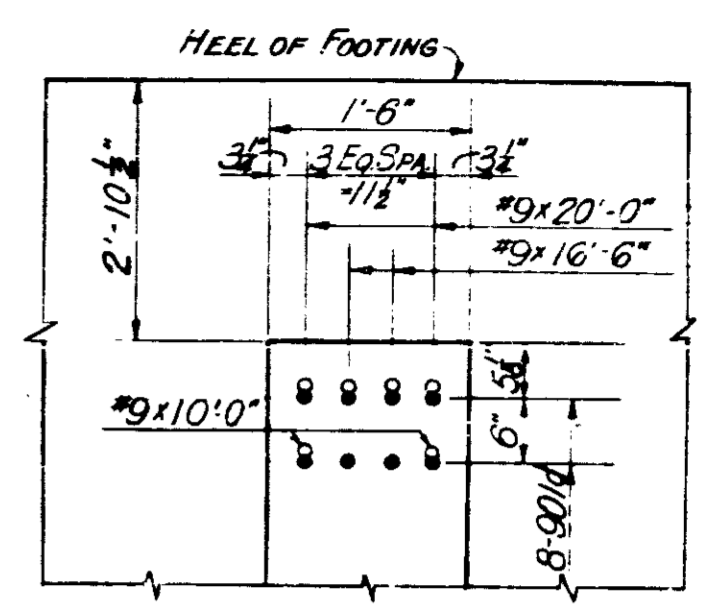
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-78-3/1077		66	139	

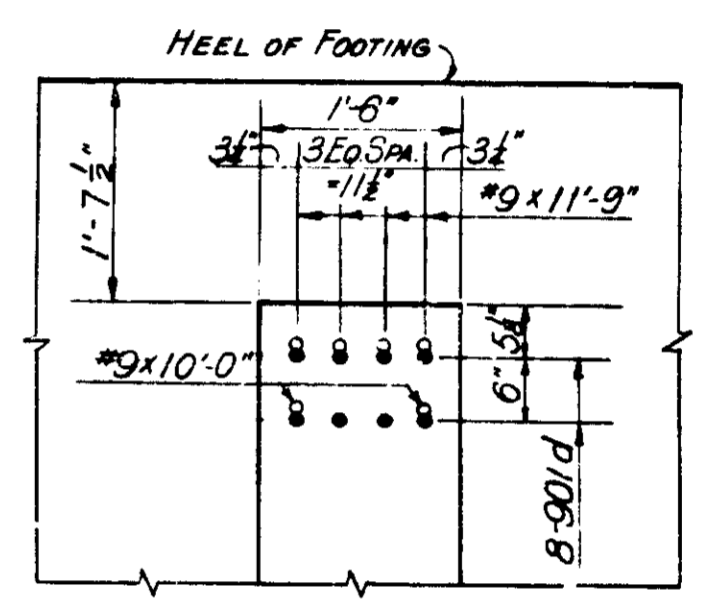
BRIDGES OVER 20' SPAN					
PUR. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (11) TT	197	67	139



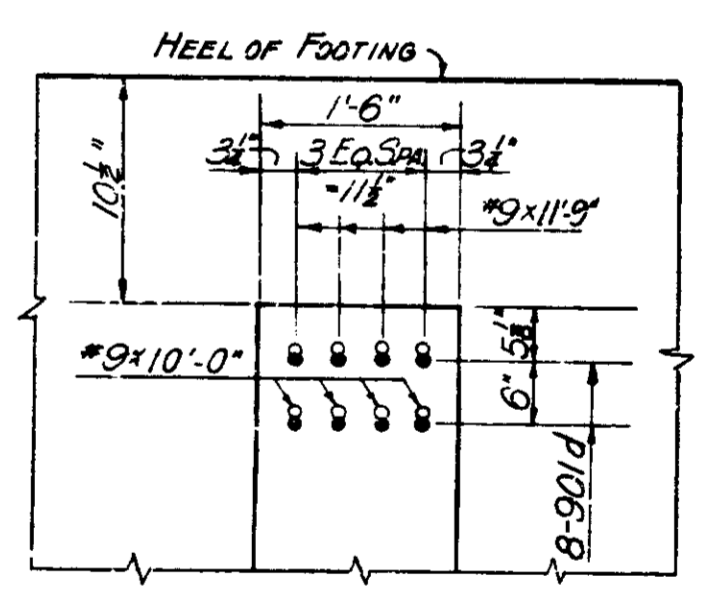
**FOOTING PLAN**



**DETAIL "A"**

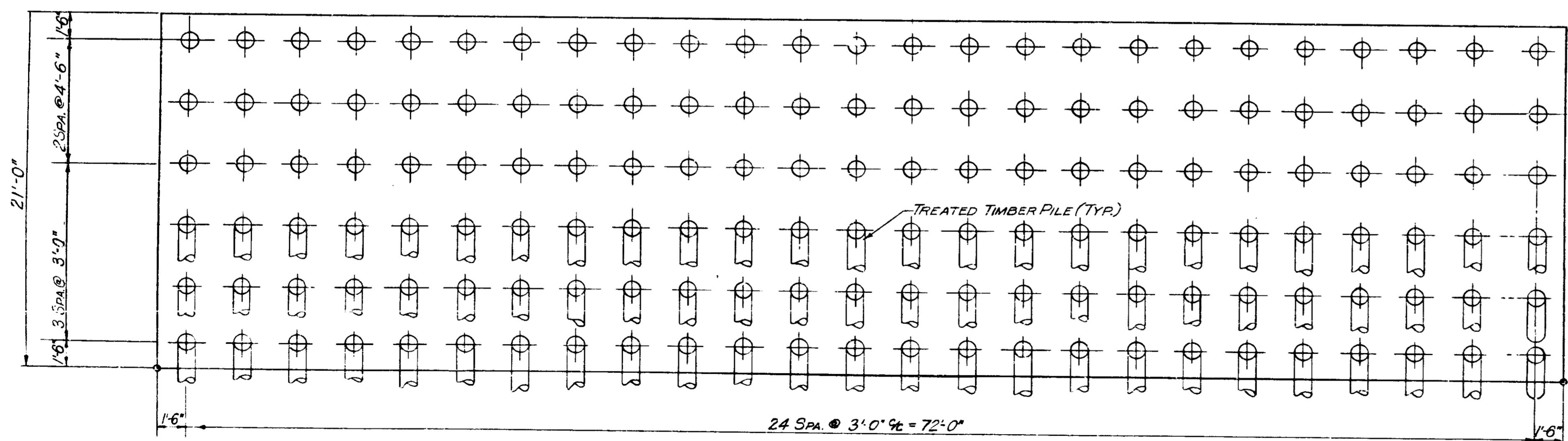


**DETAIL "B"**



**DETAIL "C"**

NOTES:  
 SEE SHEET No. 59 FOR GEN. ARRANGEMENT OF RETAINING WALL No. 4.  
 SEE SHEET No. 3 FOR LOCATION OF RETAINING WALL No. 4.  
 SEE SHEET No. 75 & 70 FOR COUNTERFORT DETAILS.  
 SEE SHEET No. 73 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET No. 80 FOR BILL OF MATERIALS.  
 SEE SHEET No. 68 FOR ELEVATION OF SECTION 4, RETAINING WALL No. 4.



**PILE PLAN**

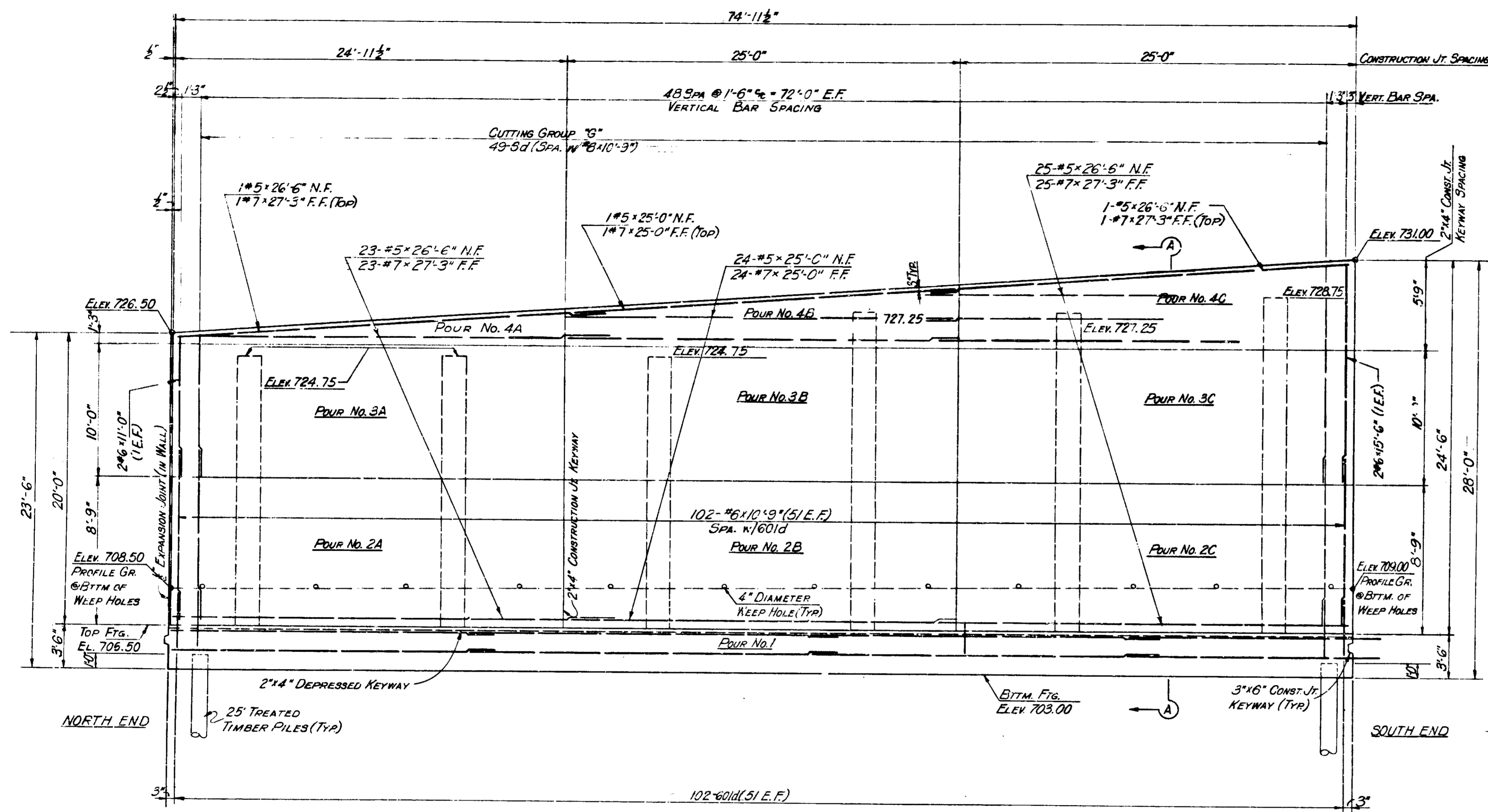
**RETAINING WALL 4 SECTION 4 DETAILS  
 INDIANA STATE HIGHWAY COMMISSION**

SCALE: NONE  
 SUBMITTED FOR APPROVAL: *[Signature]* 3-21-71

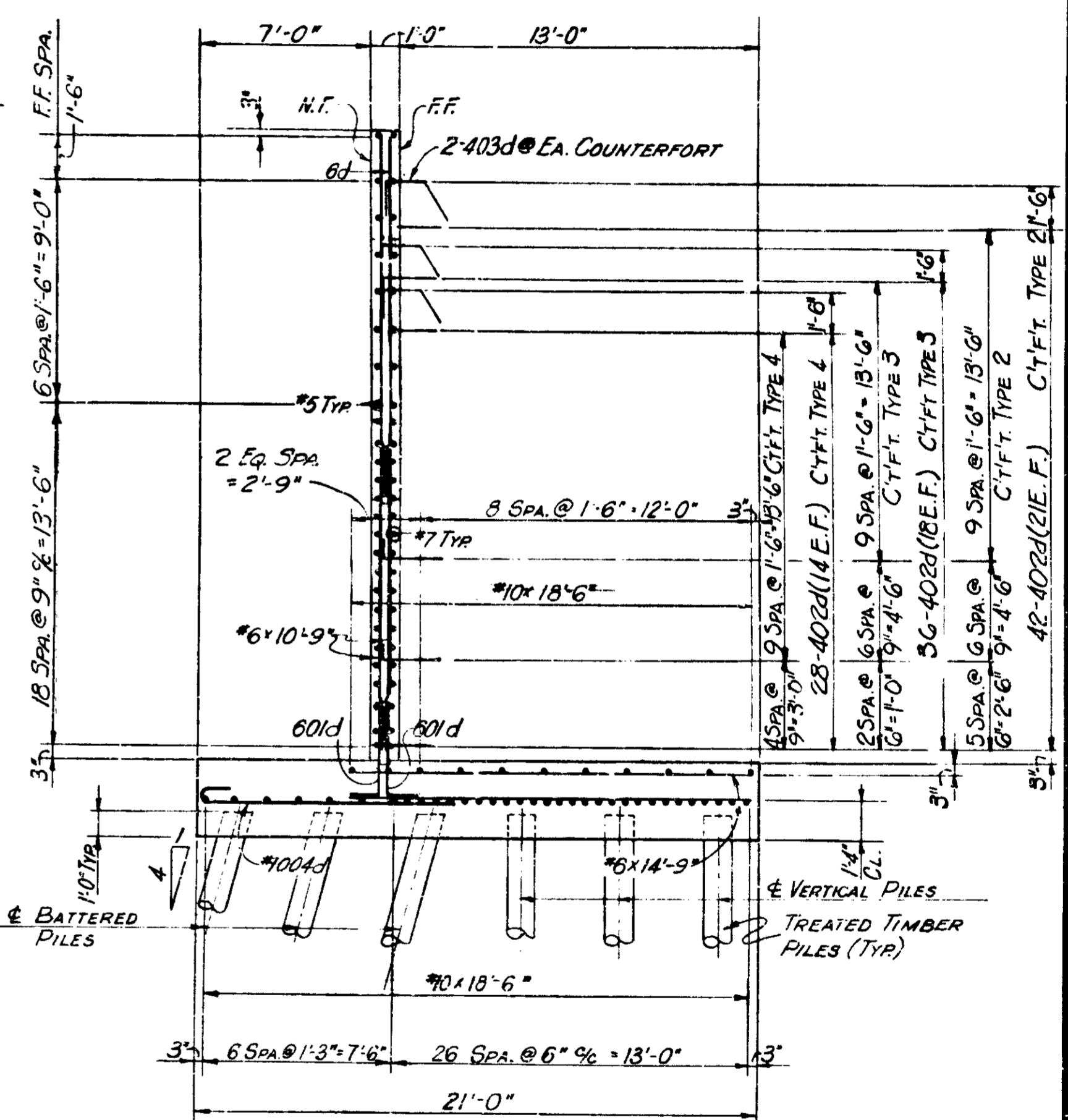
DESIGNED	C.K.D.
DRAWN	C.K.D.
TRACED	C.K.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (7) 77		67	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT I.D.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	(10) 77	197	68	139



**ELEVATION**



**SECTION A-A**

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET NO. 67 FOR PLAN OF SECTION 4, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 4 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

SUBMITTED FOR APPROVAL: *[Signature]* 3-29-71

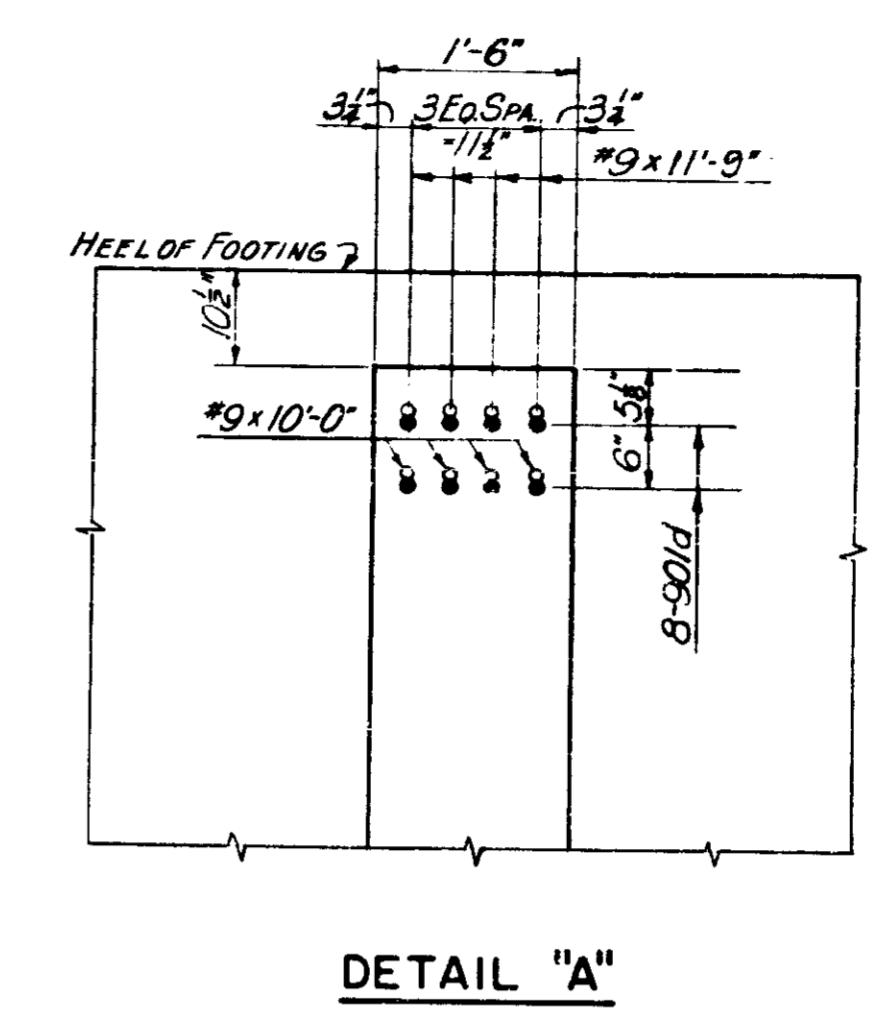
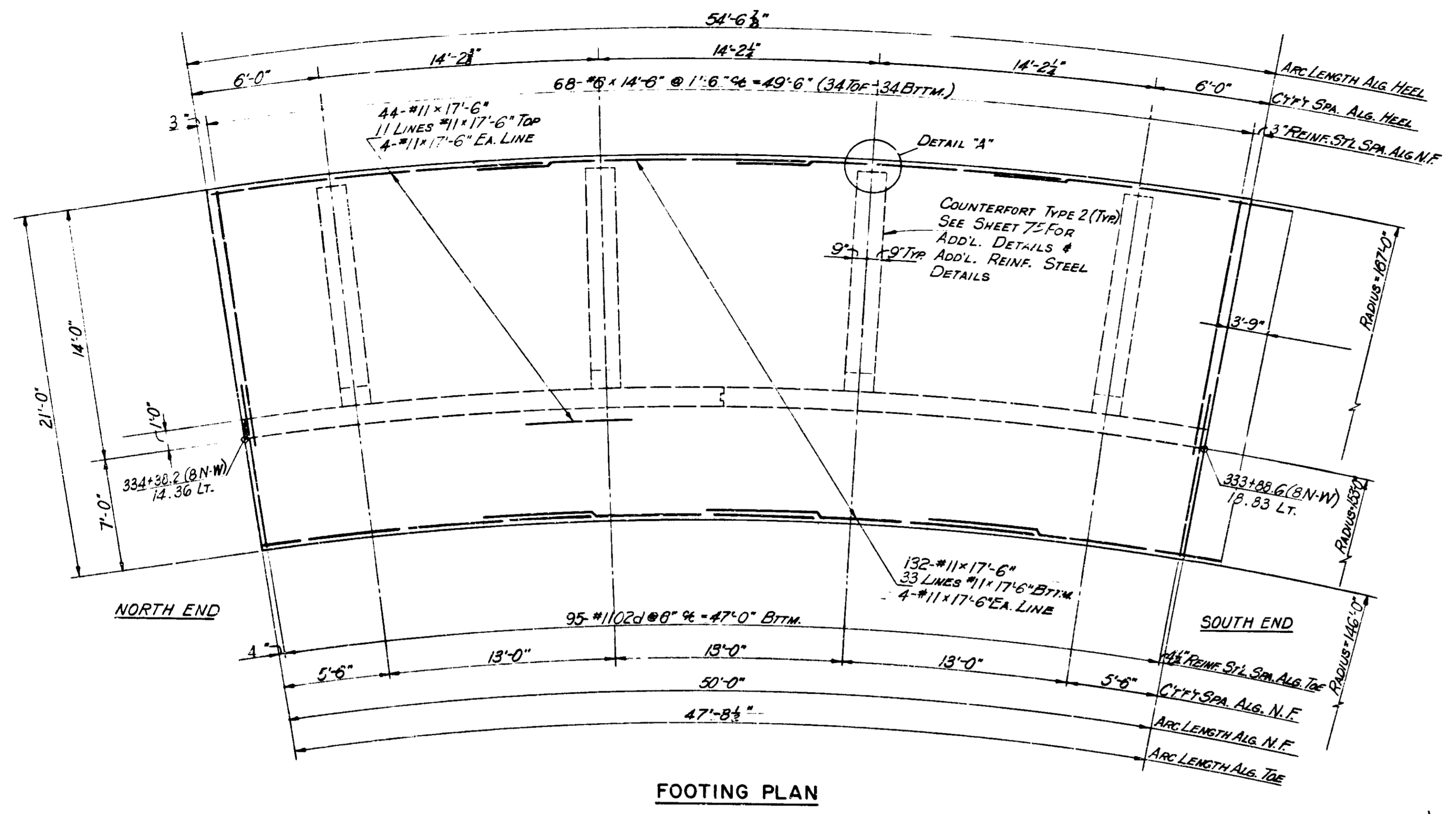
1971

DESIGNED: C.K.D.  
 DRAWN: C.K.D.  
 TRACED: C.K.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-10-3(10) 77		68	139	

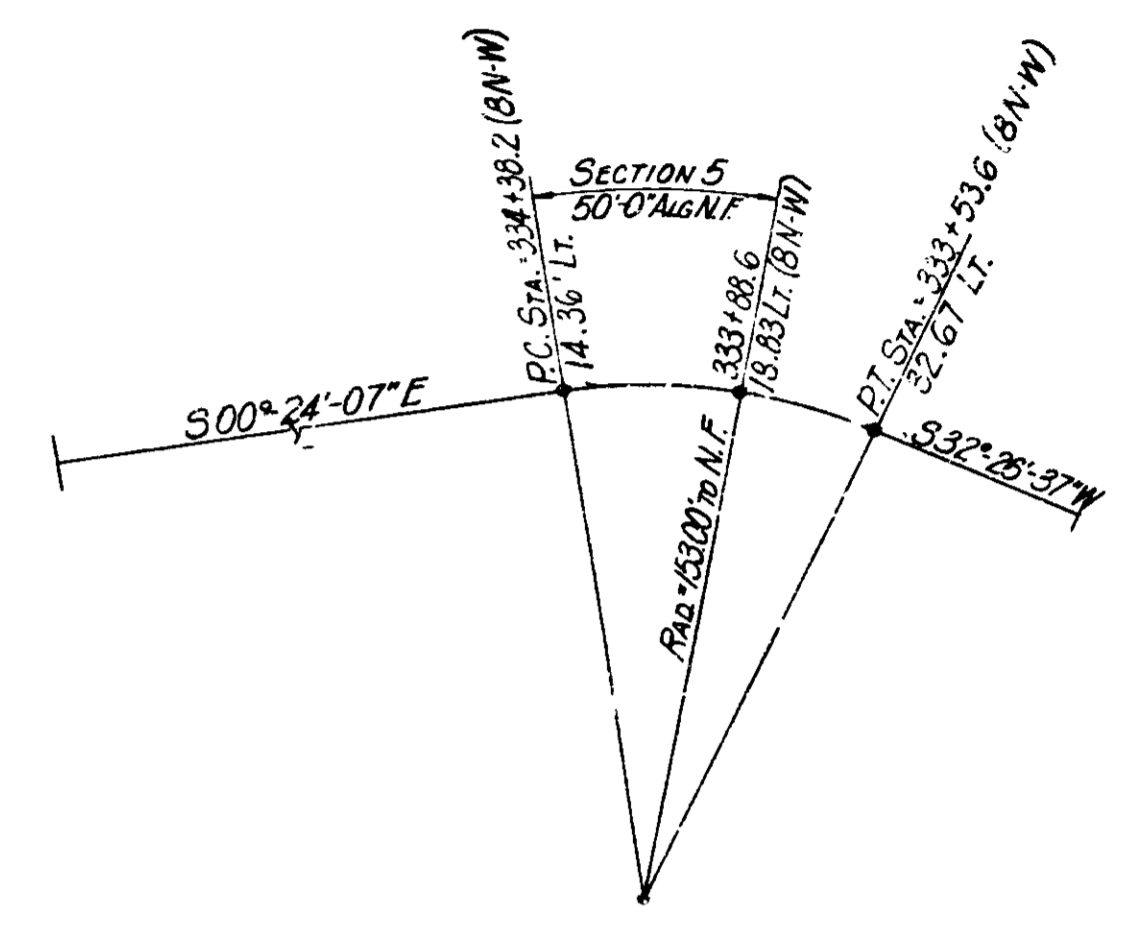


BRIDGES OVER 20' SPAN				
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
5	IND.	1-70-3 (117)	197	69

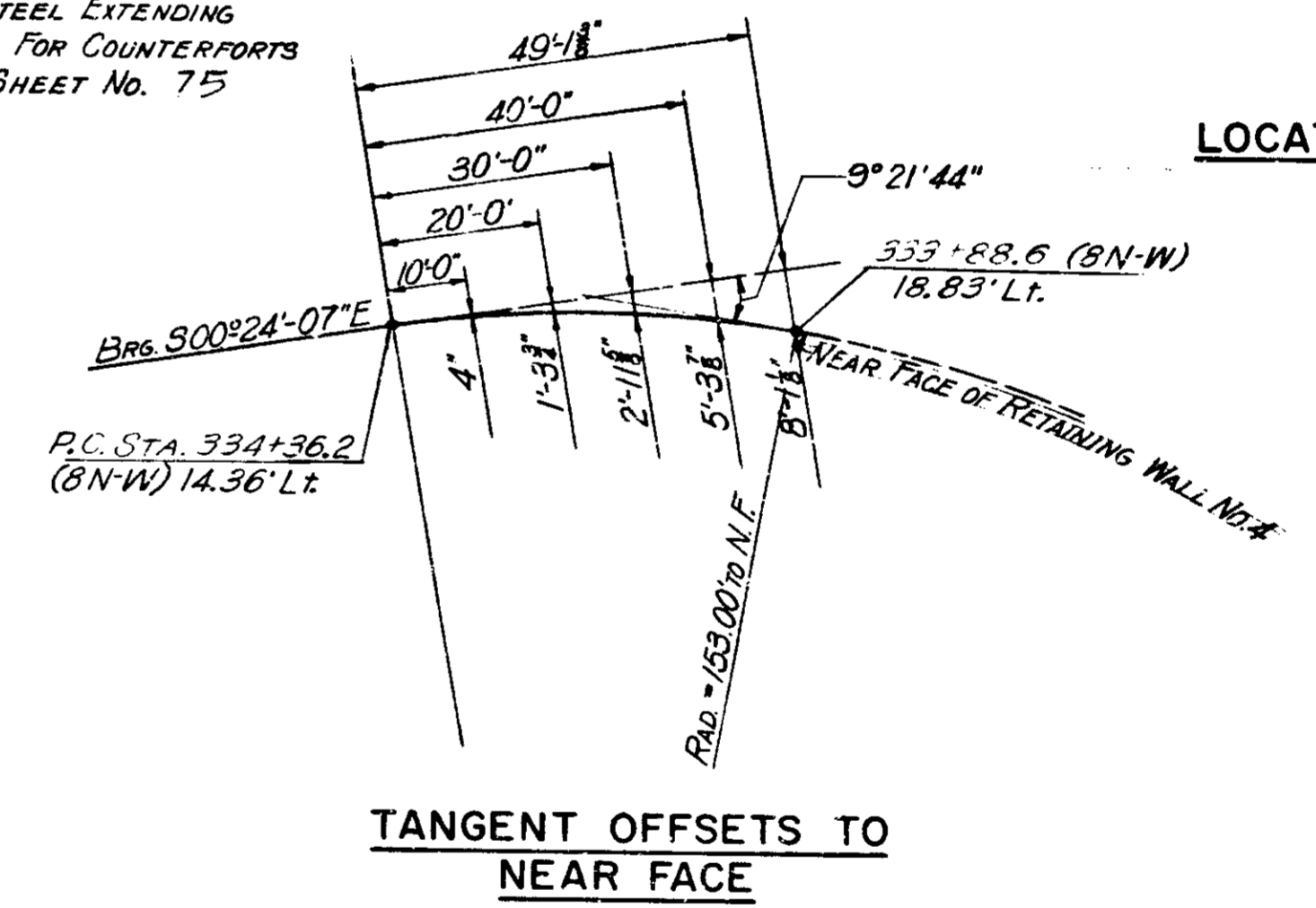


**CURVE DATA**

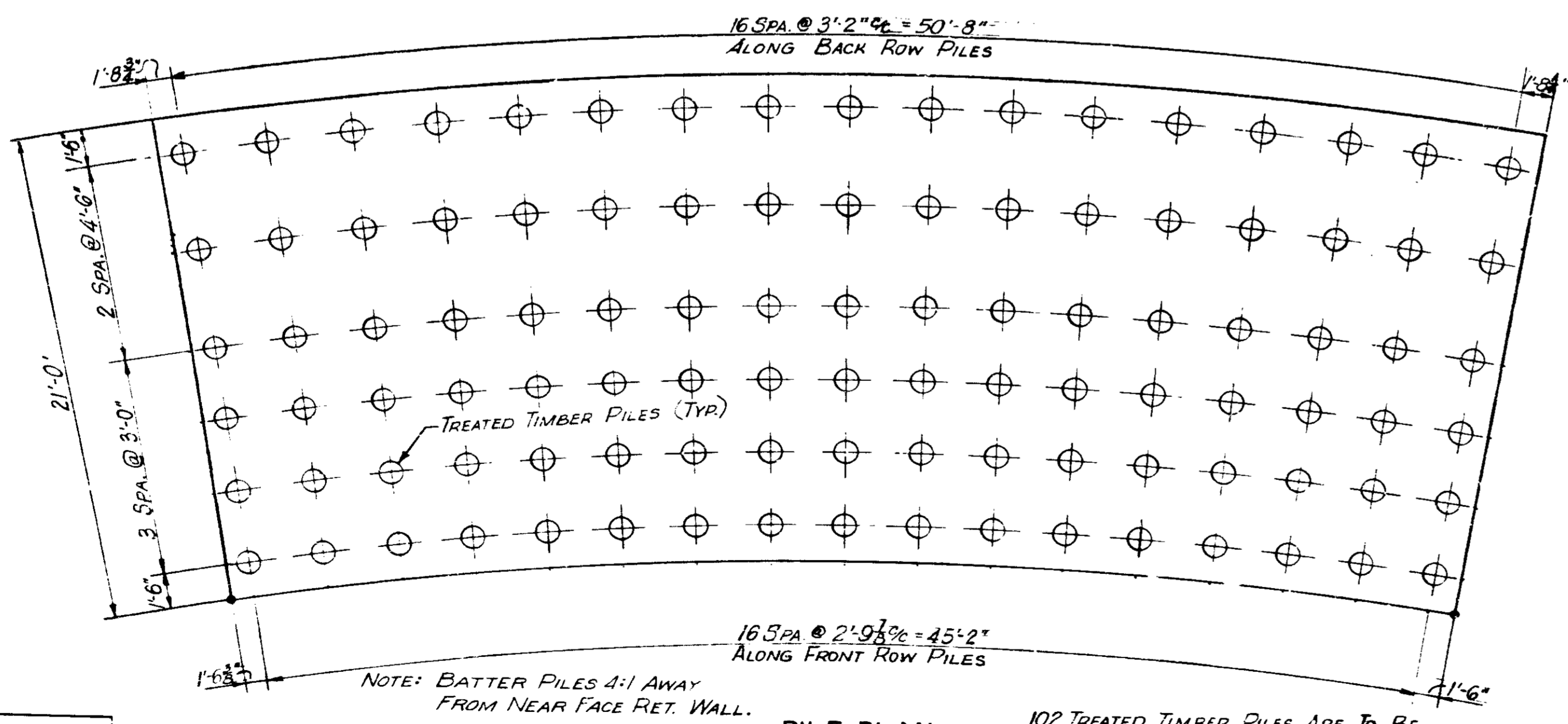
RETAINING WALL 4	SECTION 5
$\Delta = 32^\circ 50' 44''$	$\Delta = 18^\circ 43' 27''$
$R = 153.00'$	$R = 153.00'$
$T = 45.096'$	$T = 25.225'$
$L = 87.709'$	$L = 50.000'$
$LC = 86.513'$	$LC = 49.778'$



NOTE: FOR ADDITIONAL DETAILS & REINFORCING STEEL EXTENDING FROM FOOTINGS FOR COUNTERFORTS TYPE 2 SEE SHEET NO. 75



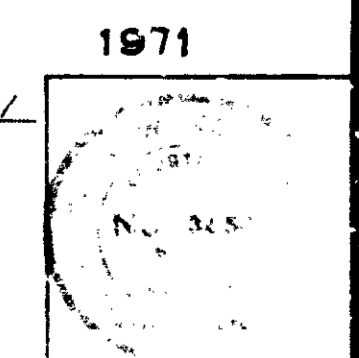
NOTES:  
 SEE SHEET NO. 60 FOR GEN. ARRANGEMENT OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 10 FOR LOCATION OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 75 FOR COUNTERFORT DETAILS.  
 SEE SHEET NO. 79 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET NO. 80 FOR BILL OF MATERIALS.  
 SEE SHEET NO. 70 FOR ELEVATION OF SECTION 5, RETAINING WALL NO. 4.



102 TREATED TIMBER PILES ARE TO BE DRIVEN TO 25 TONS MINIMUM BEARING CAPACITY.

## RETAINING WALL 4 SECTION 5 DETAILS INDIANA STATE HIGHWAY COMMISSION

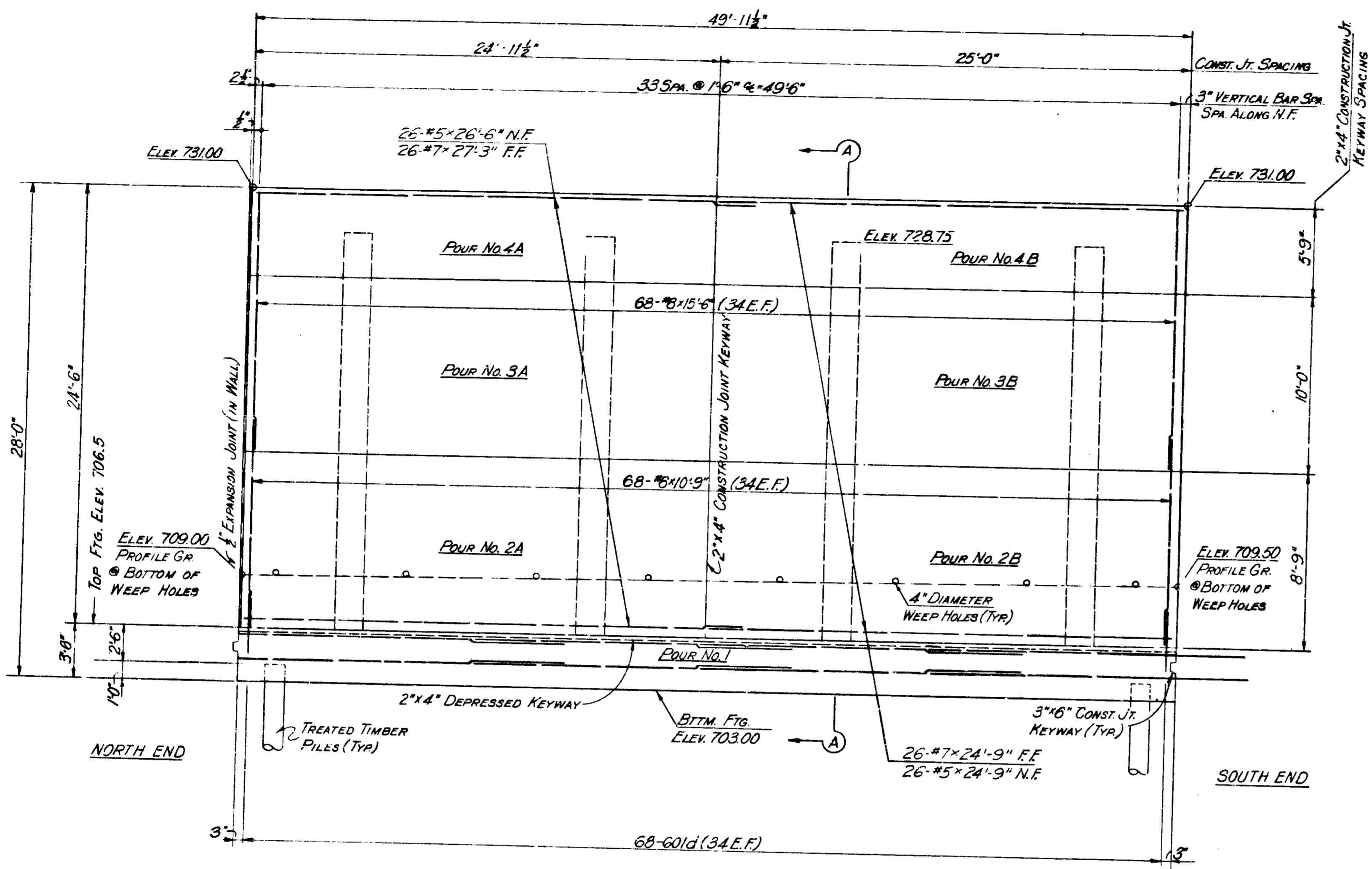
SCALE: NONE  
 SUBMITTED FOR APPROVAL: *[Signature]* 3-29-71



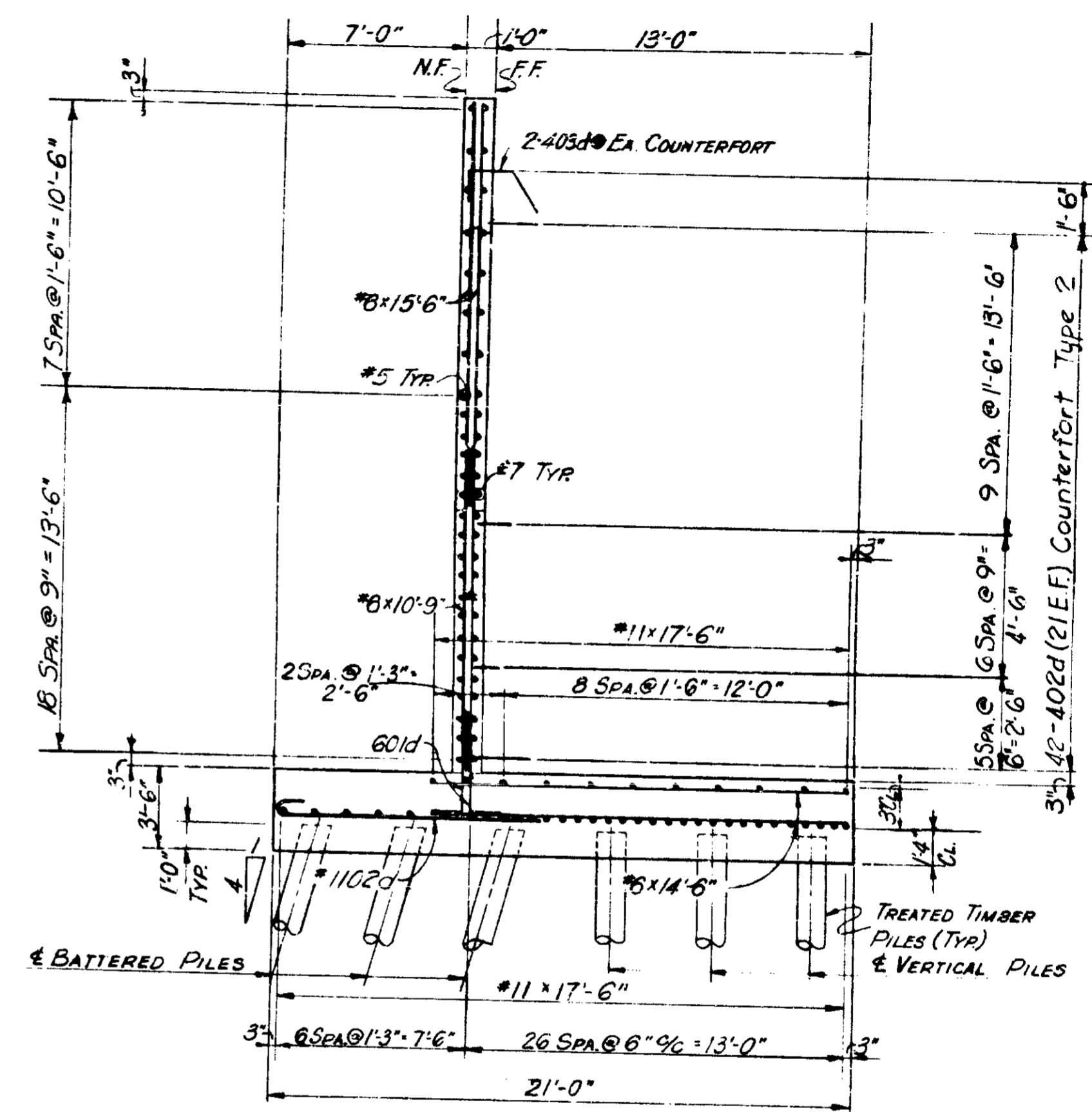
DESIGNED: CKD  
 DRAWN: CKD  
 TRACED: CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (117)		69	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-18-3(1) 77	1971	70	139



**ELEVATION**



**SECTION A-A**

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET No. 69 FOR PLAN OF SECTION 5, RETAINING WALL No. 4.

**RETAINING WALL 4 SECTION 5 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: NONE

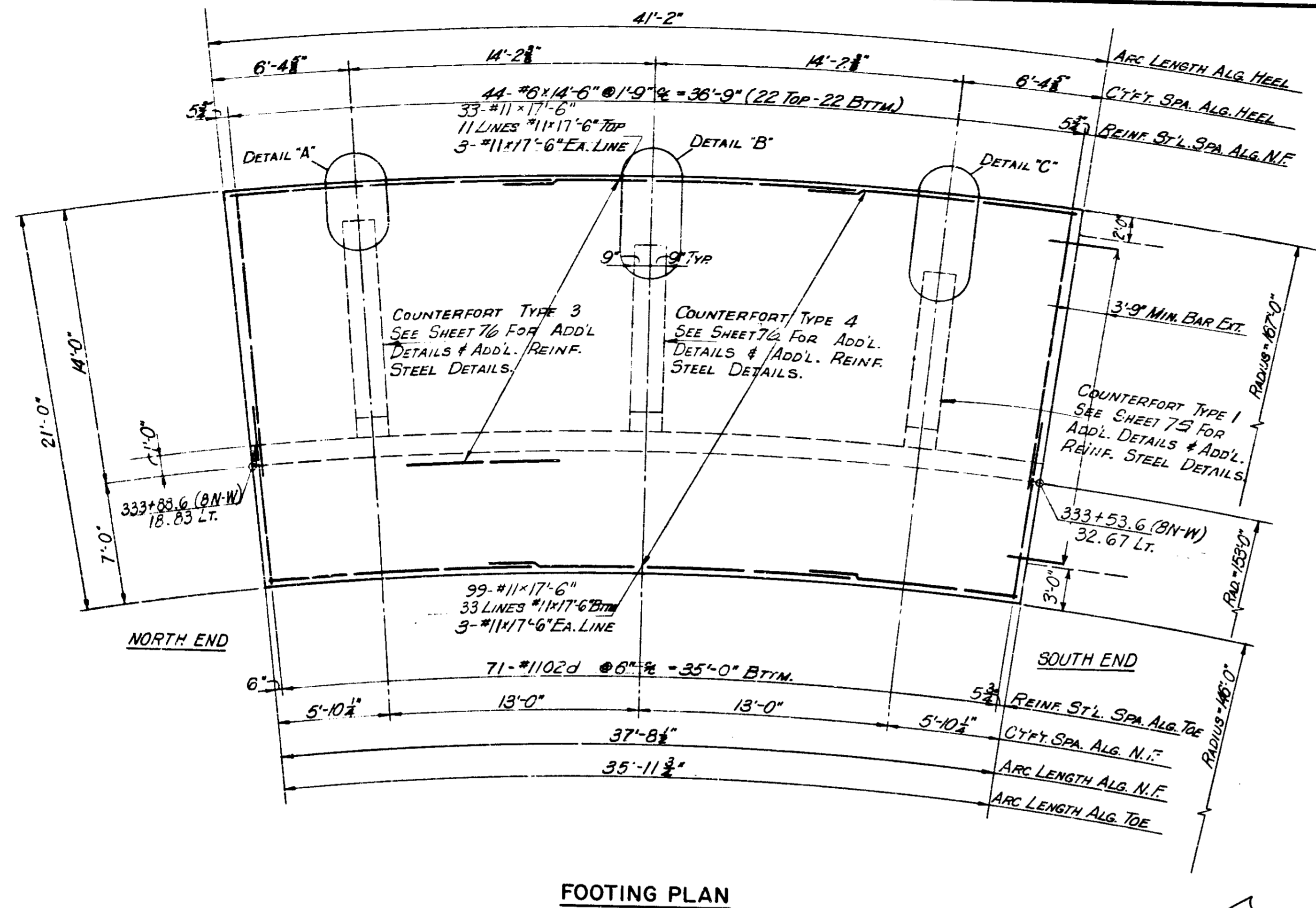
SUBMITTED FOR APPROVAL: *[Signature]* 5-21-71

1971

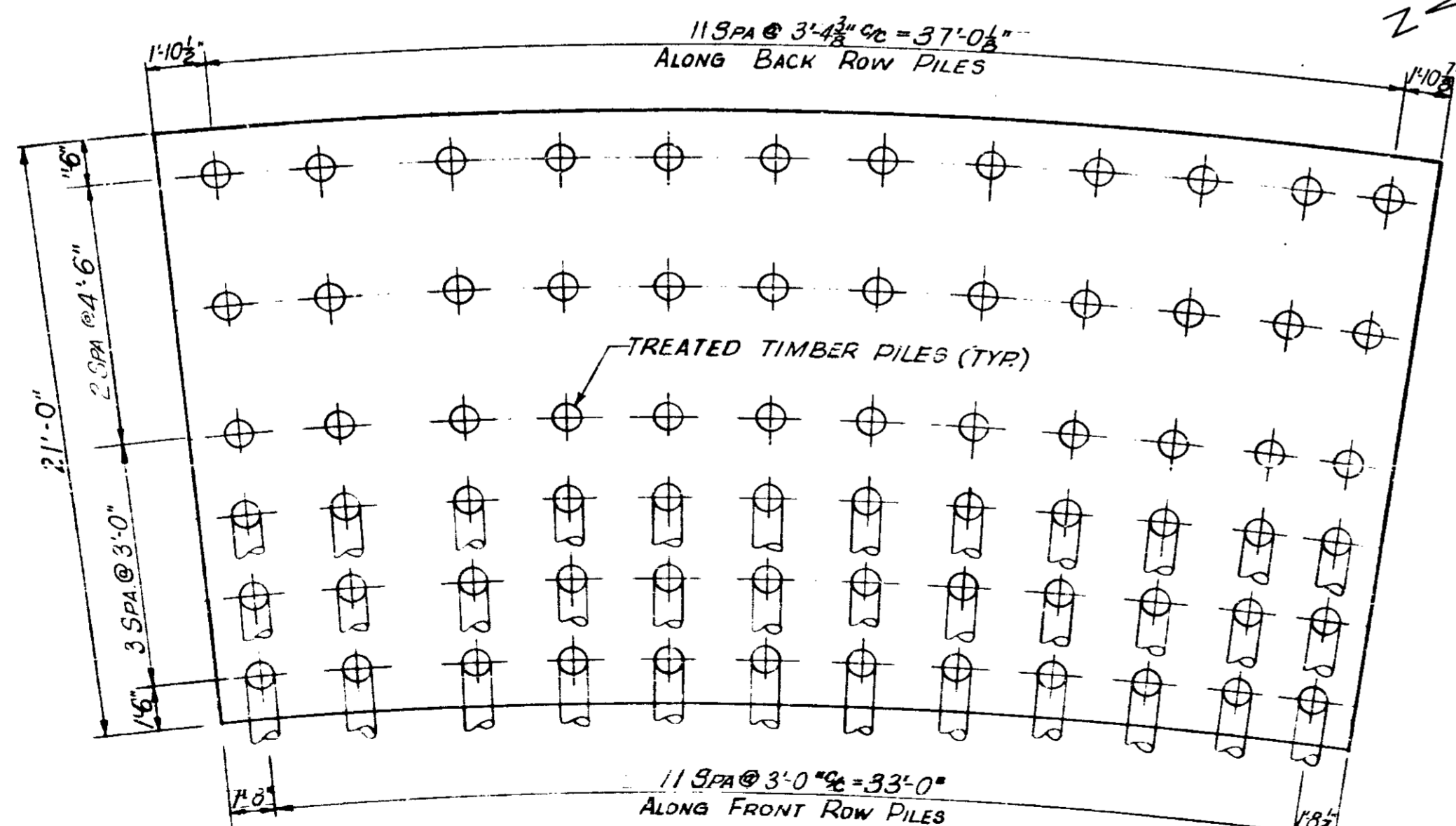
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-18-3(1) 77		70	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (7077)	197	71	139



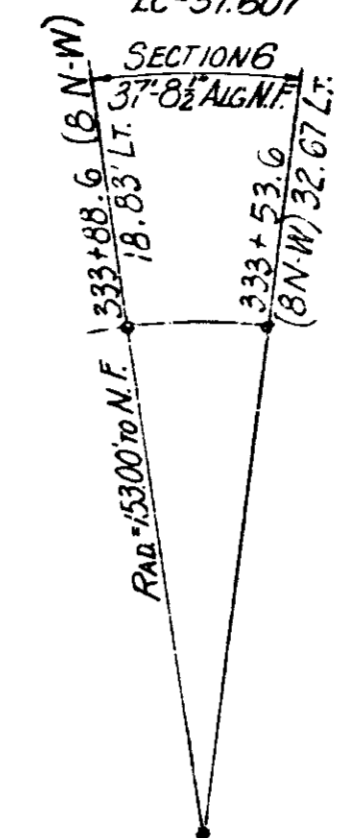
**FOOTING PLAN**



**PILE PLAN**

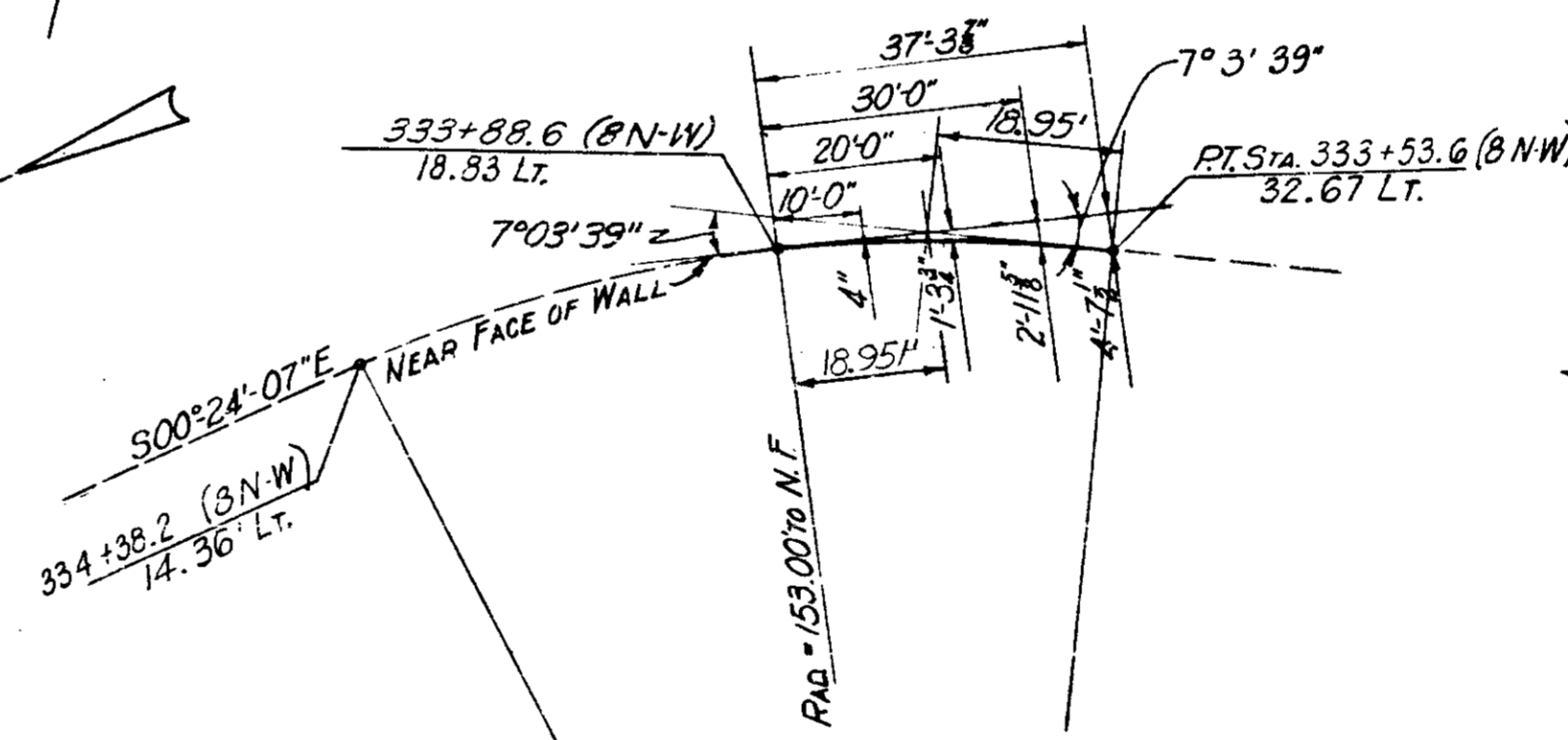
72 TREATED TIMBER PILES TO BE DRIVEN TO 25 TONS MINIMUM BEARING CAPACITY

**CURVE DATA**  
 RETAINING WALL 4  
 $\Delta = 32^\circ 50' 44''$   
 $R = 153.00'$   
 $T = 45.096'$   
 $L = 87.709'$   
 $LC = 86.513'$

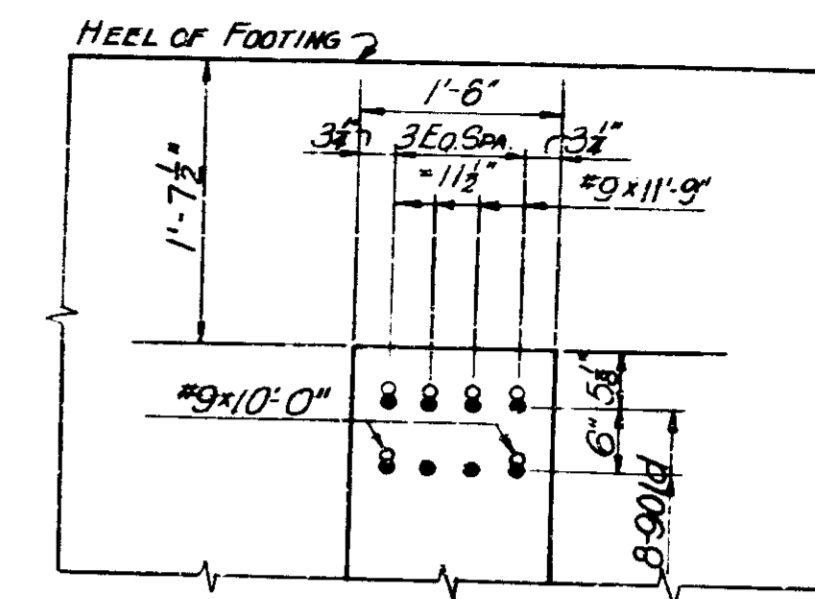


**LOCATION SKETCH**

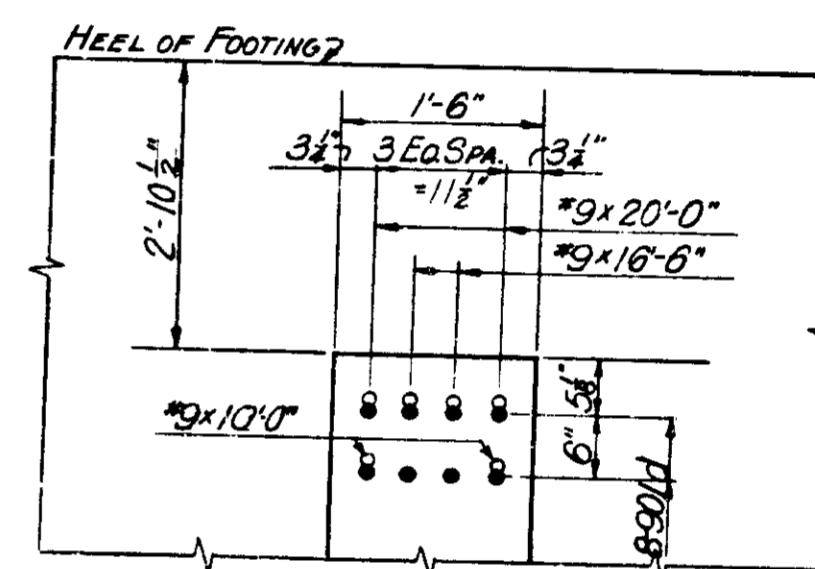
NOTE: FOR ADDITIONAL DETAILS & REINFORCING STEEL EXTENDING FROM FOOTING FOR COUNTERFORT TYPES 1, 3 & 4 SEE SHEET NOS. 75 & 76 RESPECTIVELY.



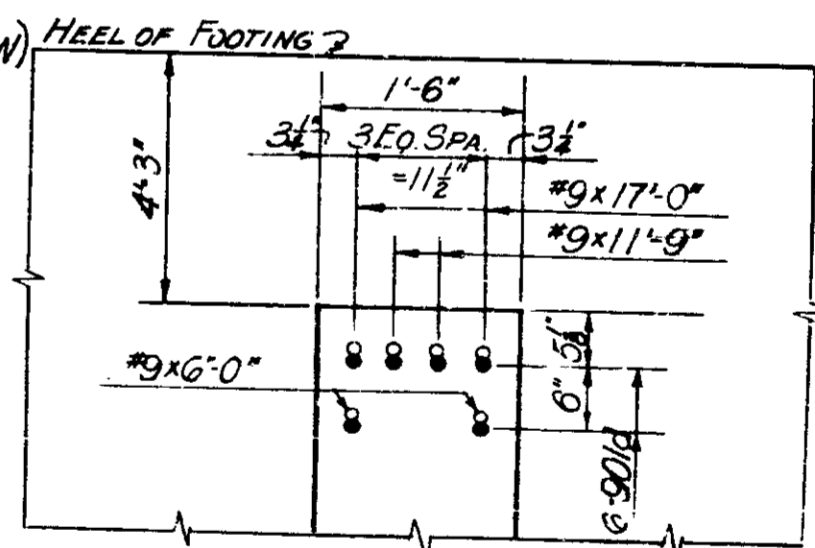
**TANGENT OFFSETS TO NEAR FACE**



**DETAIL "A"**



**DETAIL "B"**



**DETAIL "C"**

NOTES:  
 SEE SHEET NO. 63 FOR GEN. ARRANGEMENT OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 10 FOR LOCATION OF RETAINING WALL NO. 4.  
 SEE SHEET NOS 75 & 76 FOR COUNTERFORT DETAILS.  
 SEE SHEET NO. 77 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET NO. 83 FOR BILL OF MATERIALS.  
 SEE SHEET NO. 72 FOR ELEVATION OF SECTION 6, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 6 DETAILS  
 INDIANA STATE HIGHWAY COMMISSION**

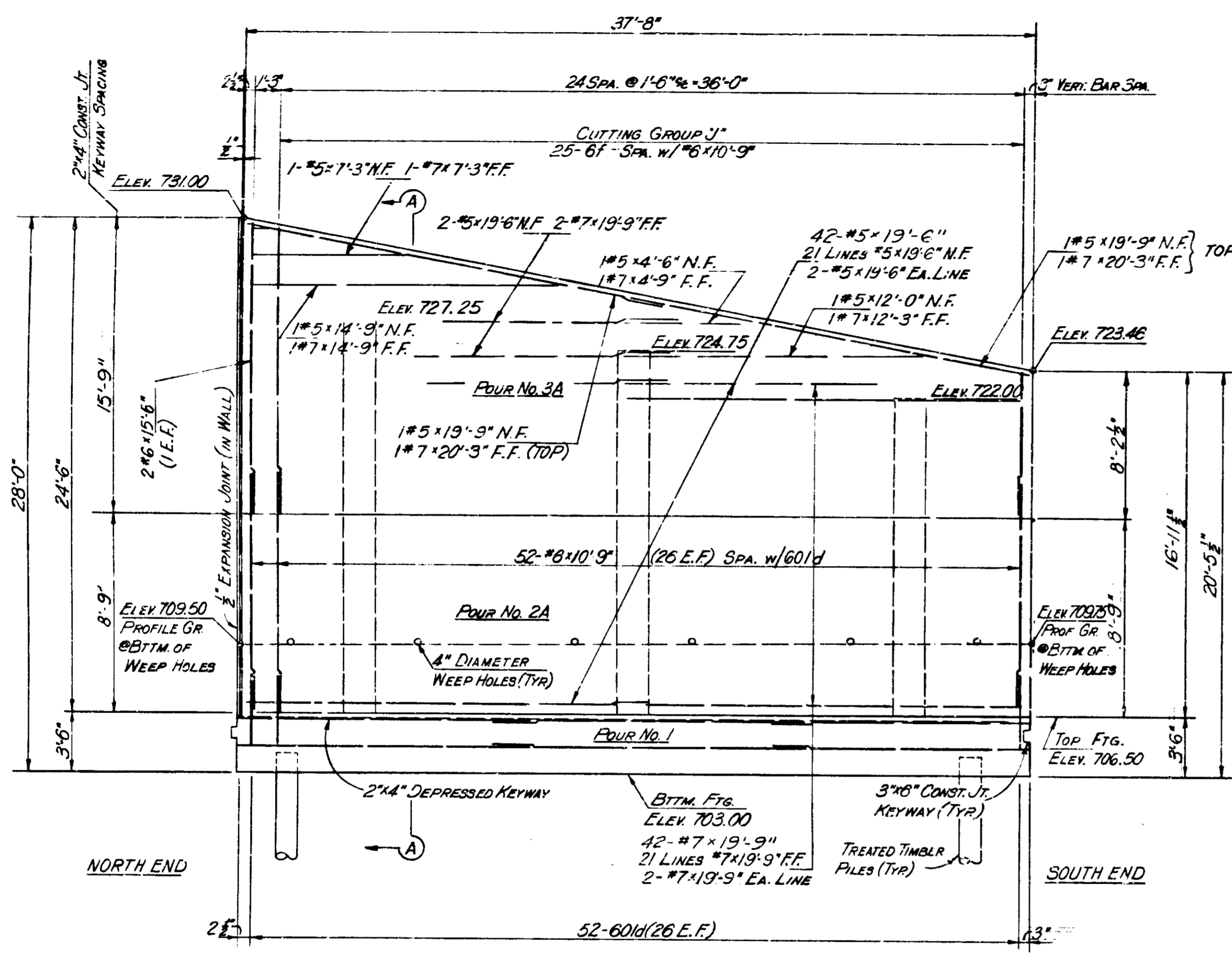
SCALE: NONE

SUBMITTED FOR APPROVAL: *[Signature]* 3-21-71

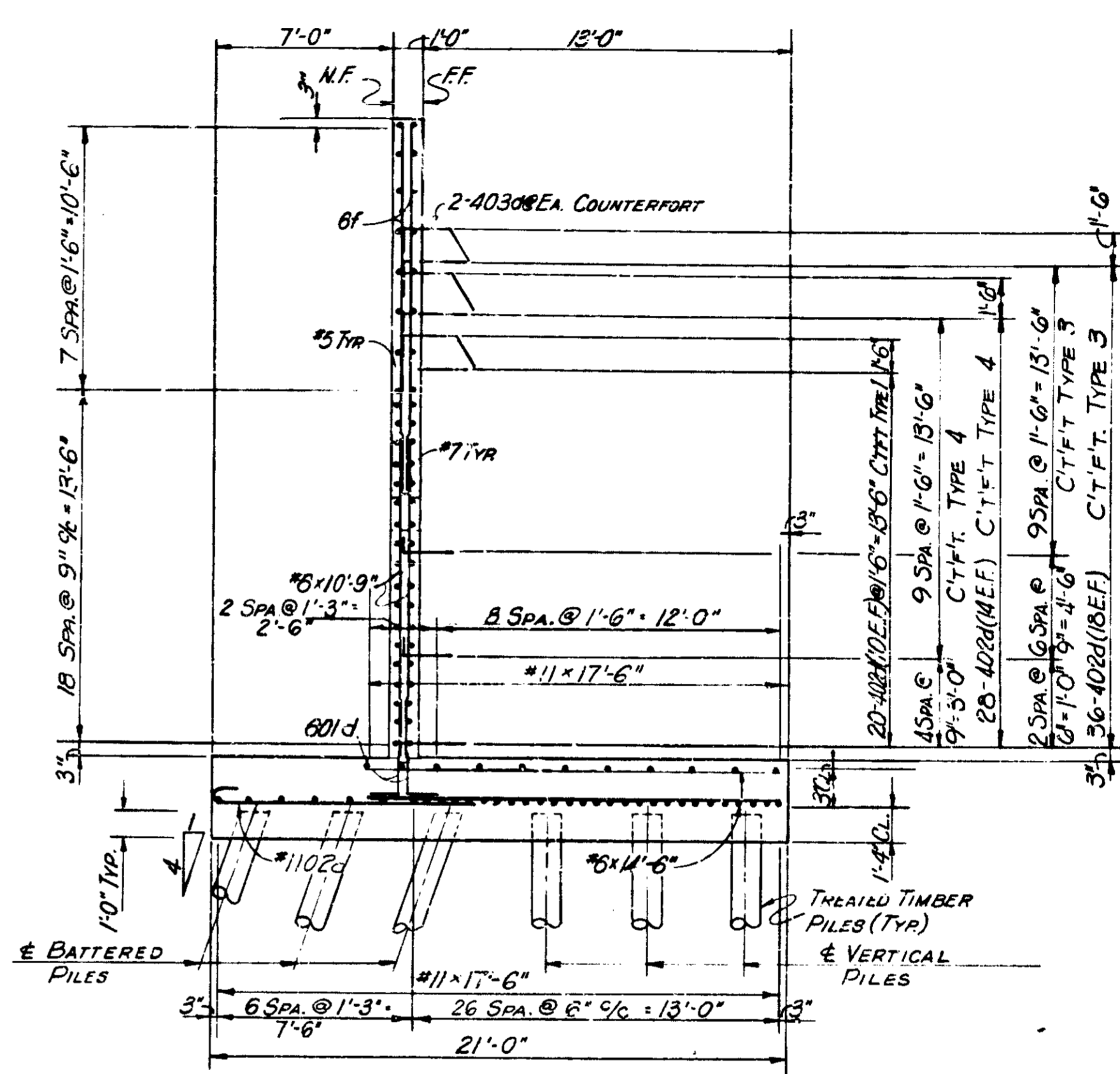
1971

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (7077)		71	139	

BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (71) 77	1971	72	199



ELEVATION



SECTION A-A

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

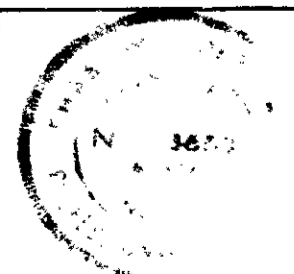
NOTE:  
 SEE SHEET NO. 71 FOR PLAN OR SECTION 6, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 6 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

SUBMITTED FOR APPROVAL: *[Signature]* 3-29-71

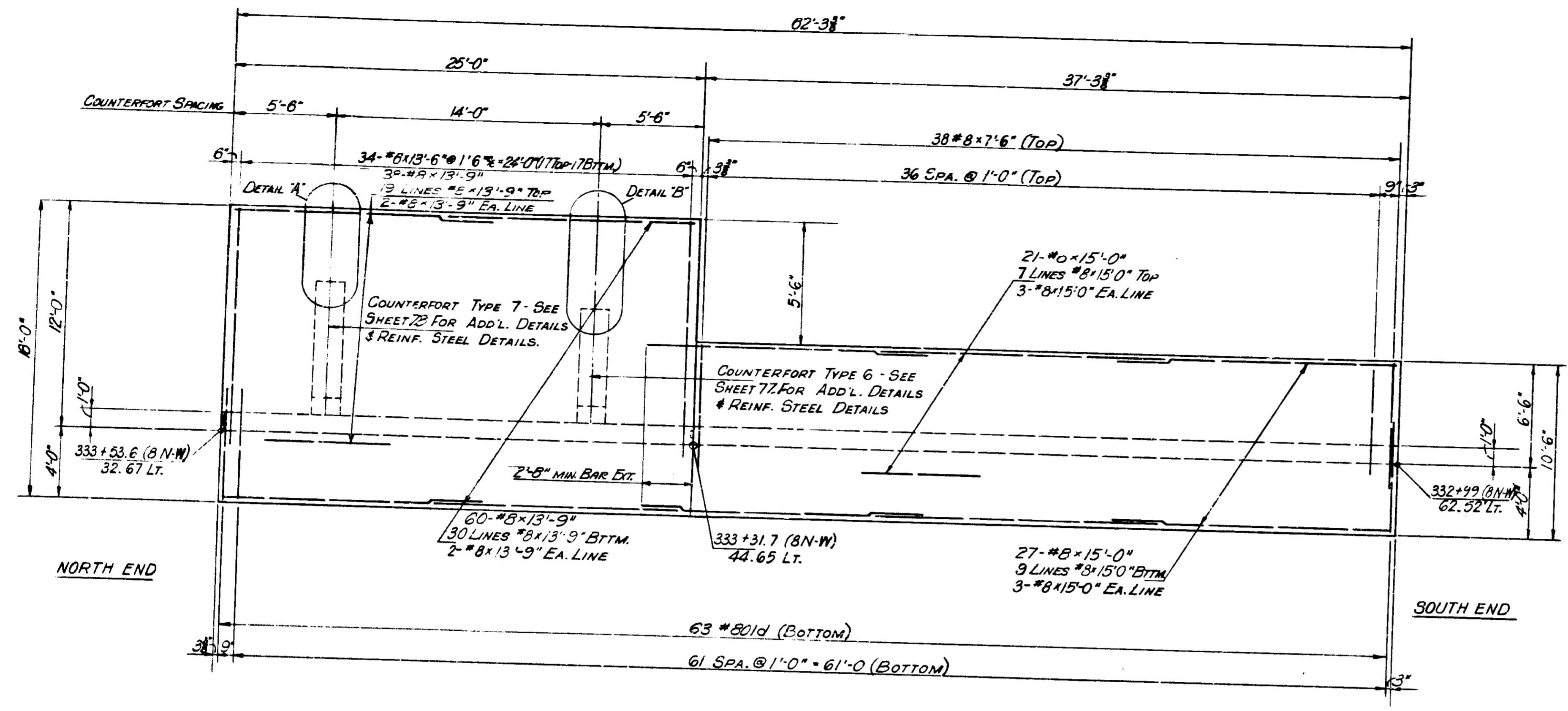
1971



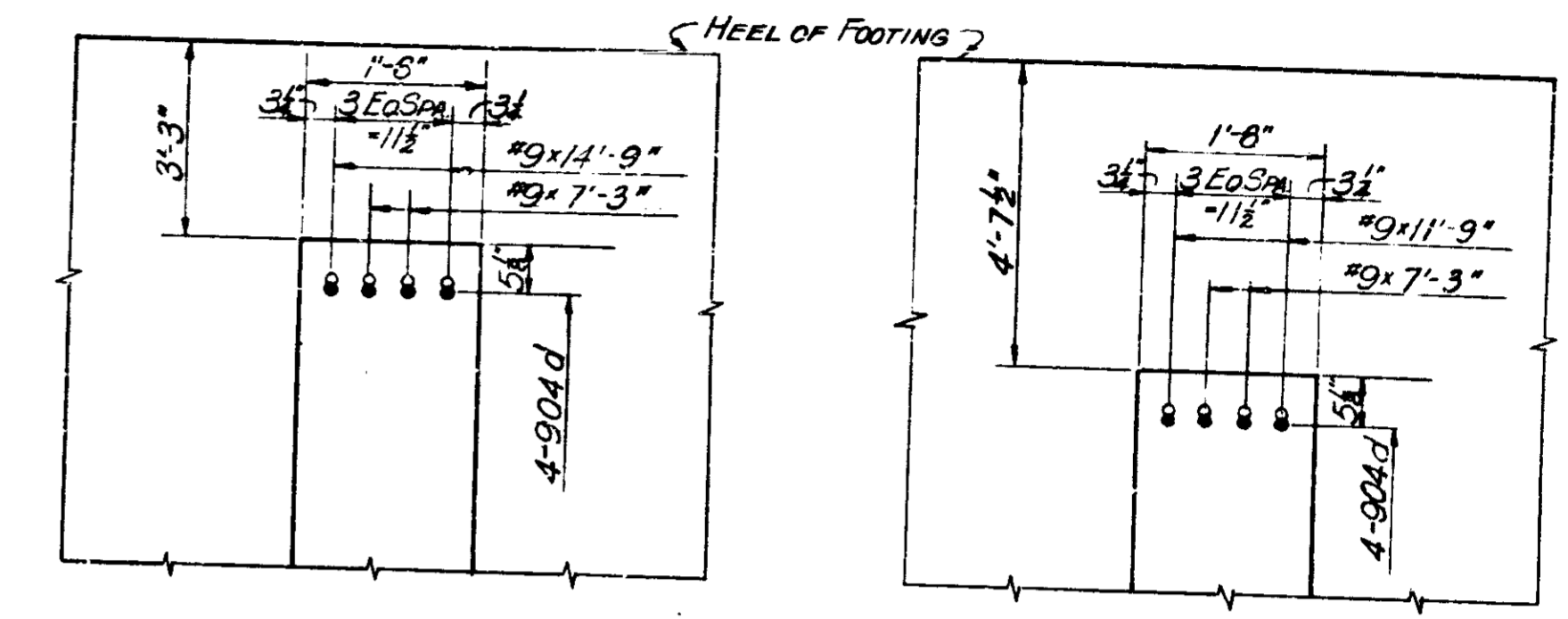
DESIGNED	C.K.D.
DRAWN	C.K.D.
TRACED	C.K.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (71) 77		72	199	

BRIDGES OVER 20' SPAN				
PUB. ROAD DES. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
5	IND.	1-70-3 (70) 71	1971	73
				139



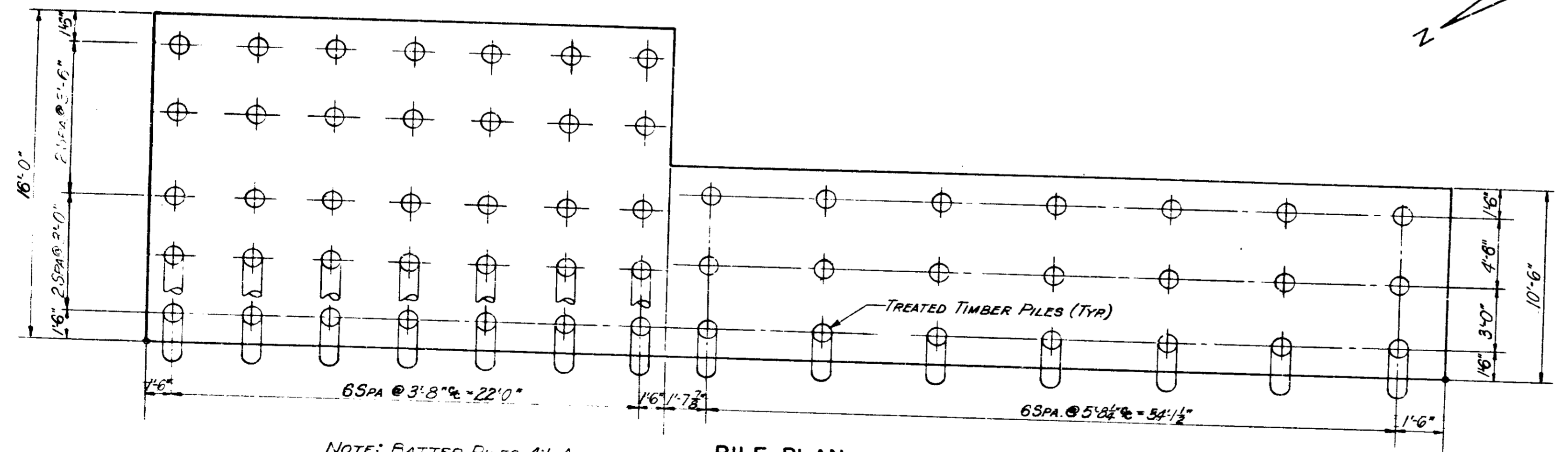
**FOOTING PLAN**



**DETAIL "A"**

**DETAIL "B"**

NOTE: FOR ADDITIONAL DETAILS & REINFORCING STEEL EXTENDING FROM FOOTING FOR COUNTERFORT TYPES 6 & 7 SEE SHEET NOS. 77 & 78 RESPECTIVELY.



**PILE PLAN**

NOTE: BATTER PILES 4:1 AWAY FROM NEAR FACE OF RET. WALL.

56 TREATED TIMBER PILES ARE TO BE DRIVEN TO 25 TONS MINIMUM BEARING CAPACITY.

NOTES:  
 SEE SHEET NO. 60 FOR GEN. ARRANGEMENT OF RETAINING WALL NO. 4.  
 SEE SHEET NO. 10 FOR LOCATION OF RETAINING WALL NO. 4.  
 SEE SHEET NOS. 77 & 78 FOR COUNTERFORT DETAILS.  
 SEE SHEET NO. 79 FOR REINFORCING BAR DIAGRAMS.  
 SEE SHEET NO. 80 FOR BILL OF MATERIALS.  
 SEE SHEET NO. 74 FOR ELEVATION OF SECTION 7, RETAINING WALL NO. 4.

**RETAINING WALL 4 SECTION 7 DETAILS**  
**INDIANA STATE HIGHWAY COMMISSION**

SCALE: - NONE

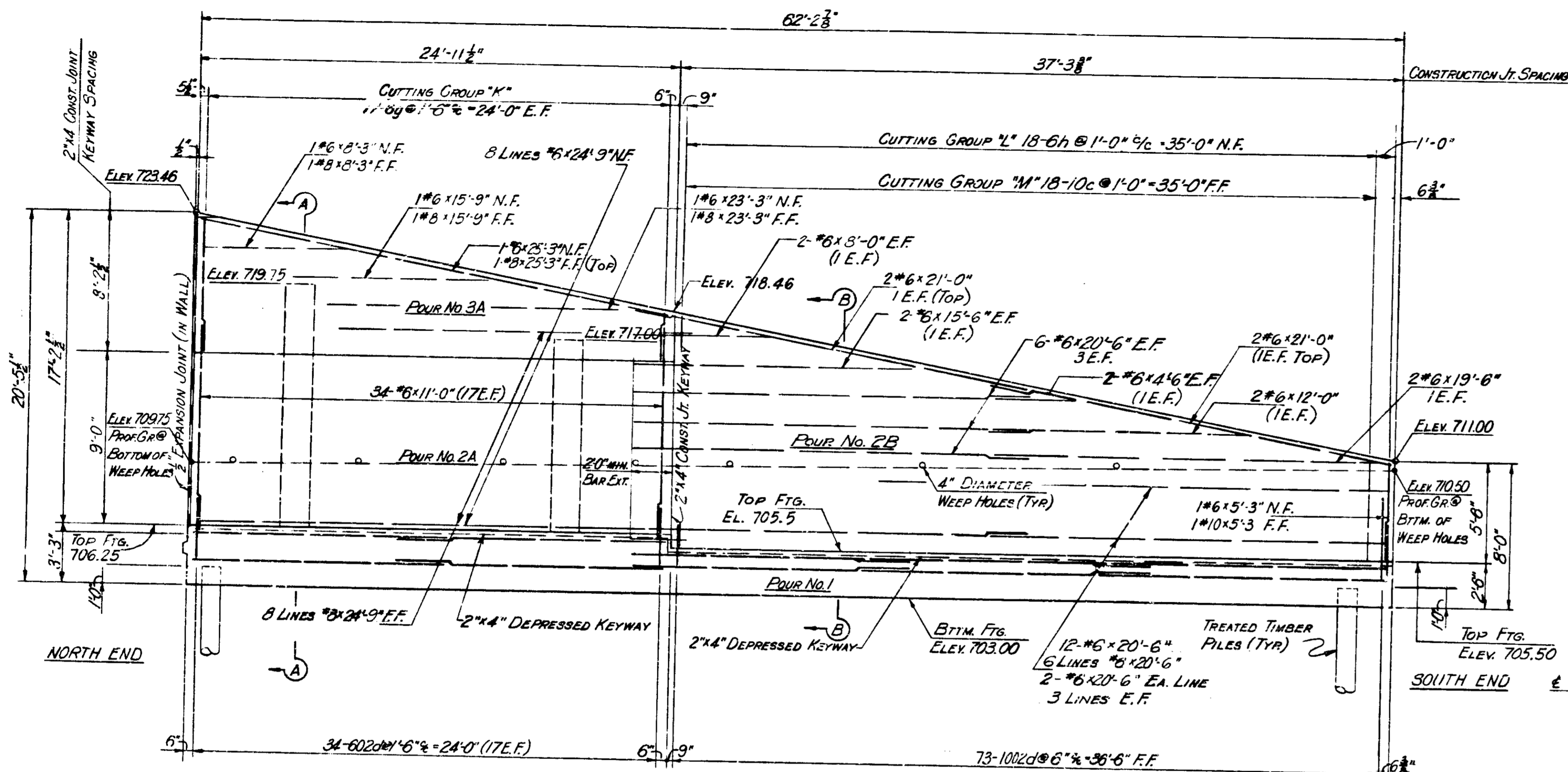
SUBMITTED FOR APPROVAL: *[Signature]* 3-27-71

1971

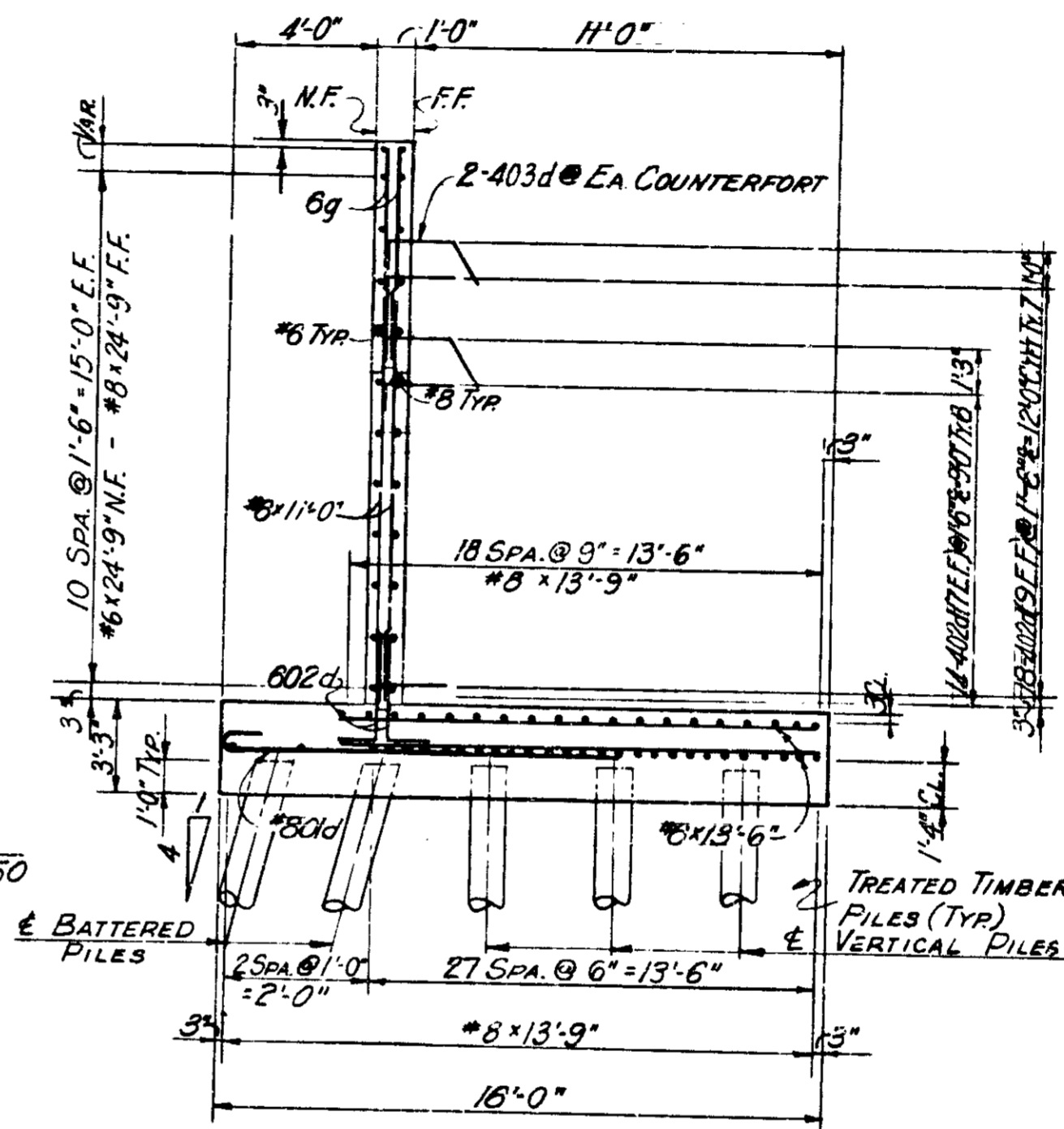
DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (70) 71		73	139	

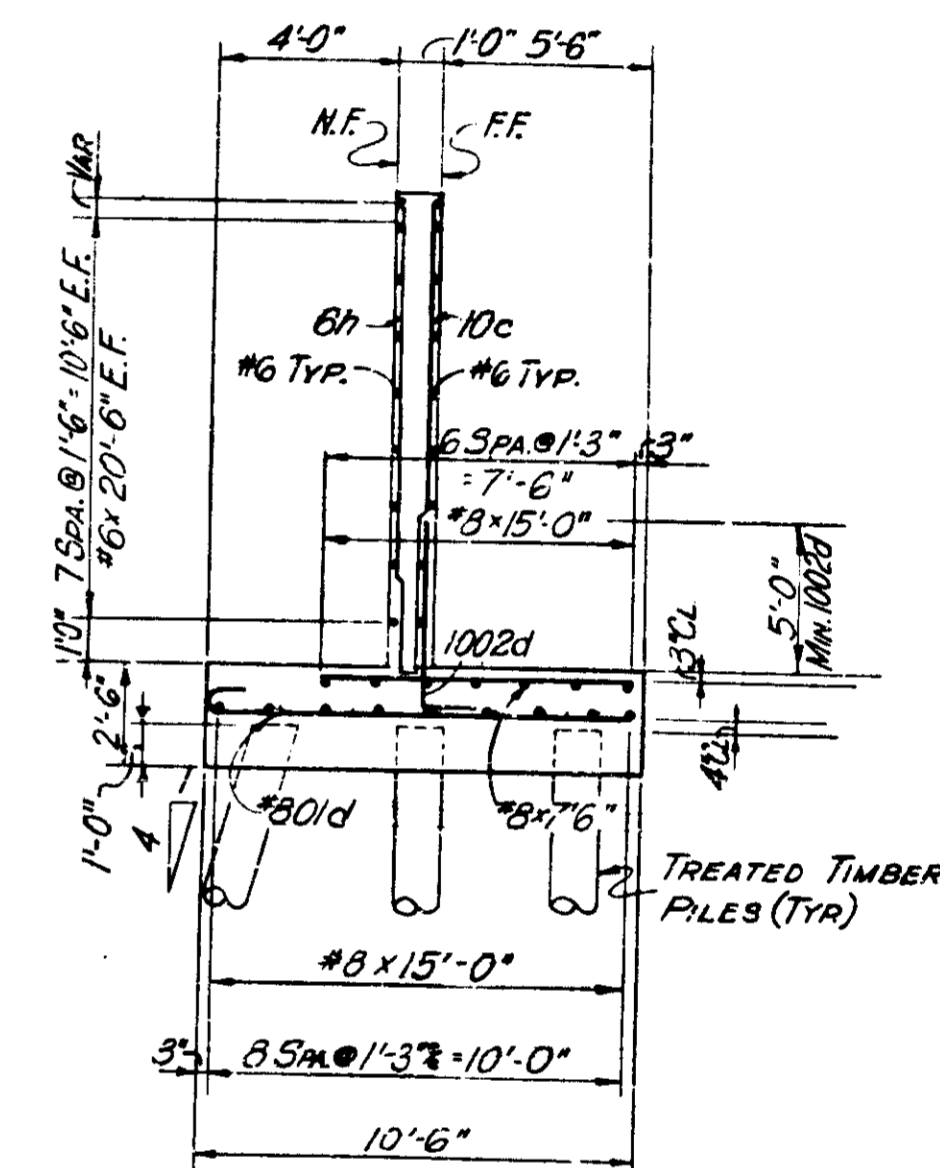
BRIDGES OVER 20' SPAN					
PUR. ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (11) 77	1971	74	139



ELEVATION



SECTION A-A



SECTION B-B

LEGEND:  
 N.F. = NEAR FACE  
 F.F. = FAR FACE  
 E.F. = EACH FACE

NOTE:  
 SEE SHEET NO. 73 FOR PLAN OF SECTION 7, RETAINING WALL NO. 4.

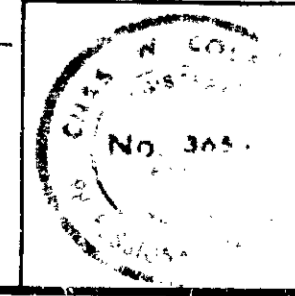
## RETAINING WALL 4 SECTION 7 DETAILS

### INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE

SUBMITTED FOR APPROVAL: *Charles G. ...* 5-21-71

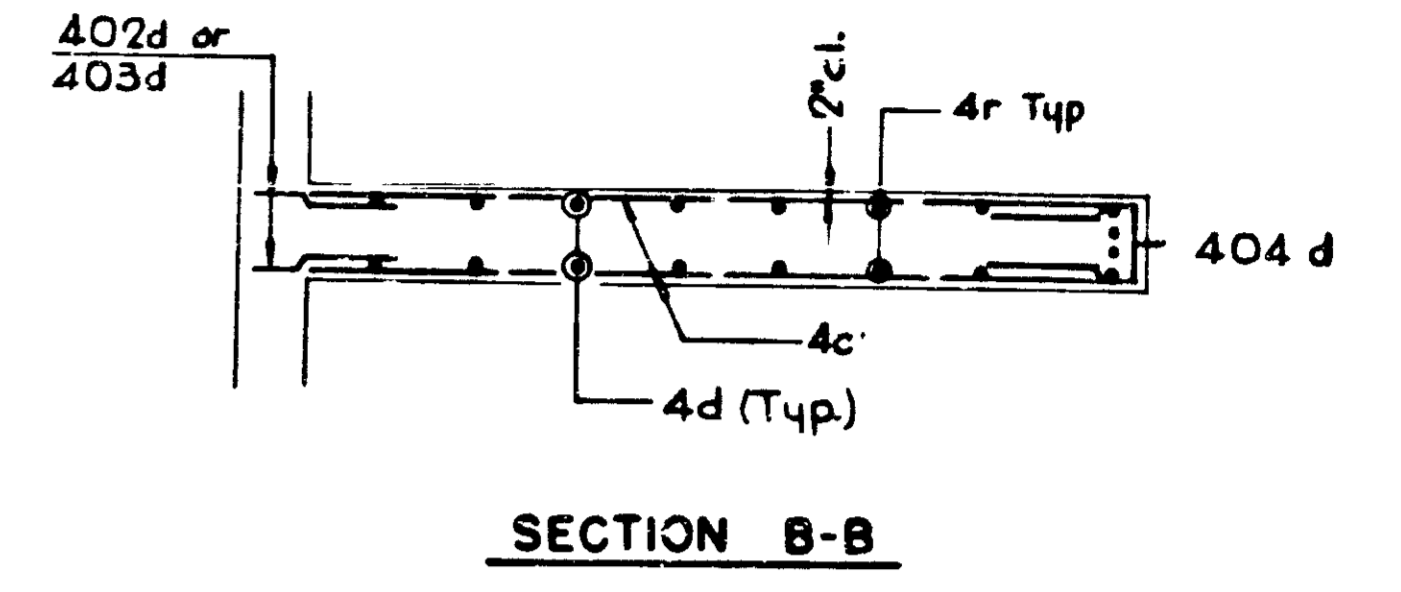
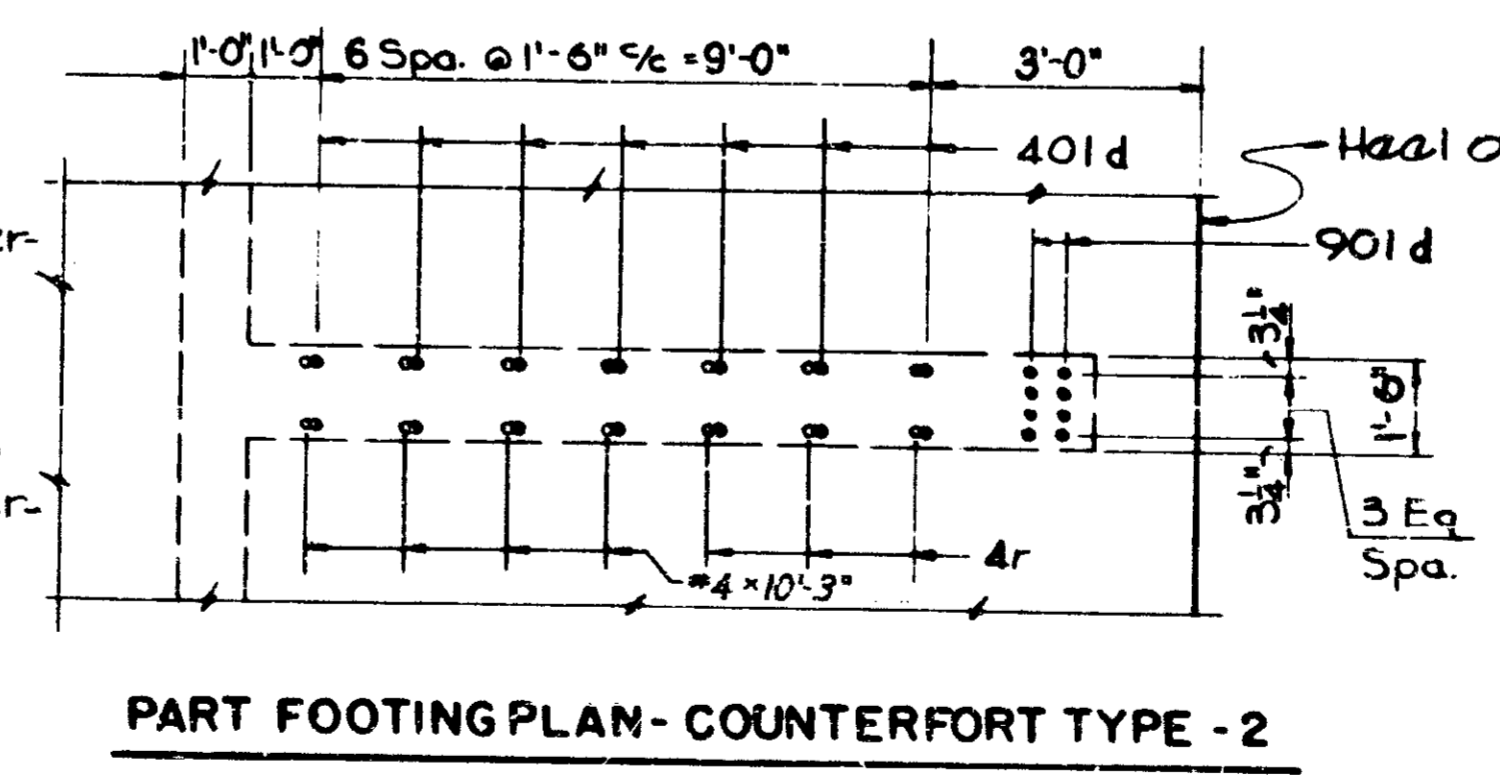
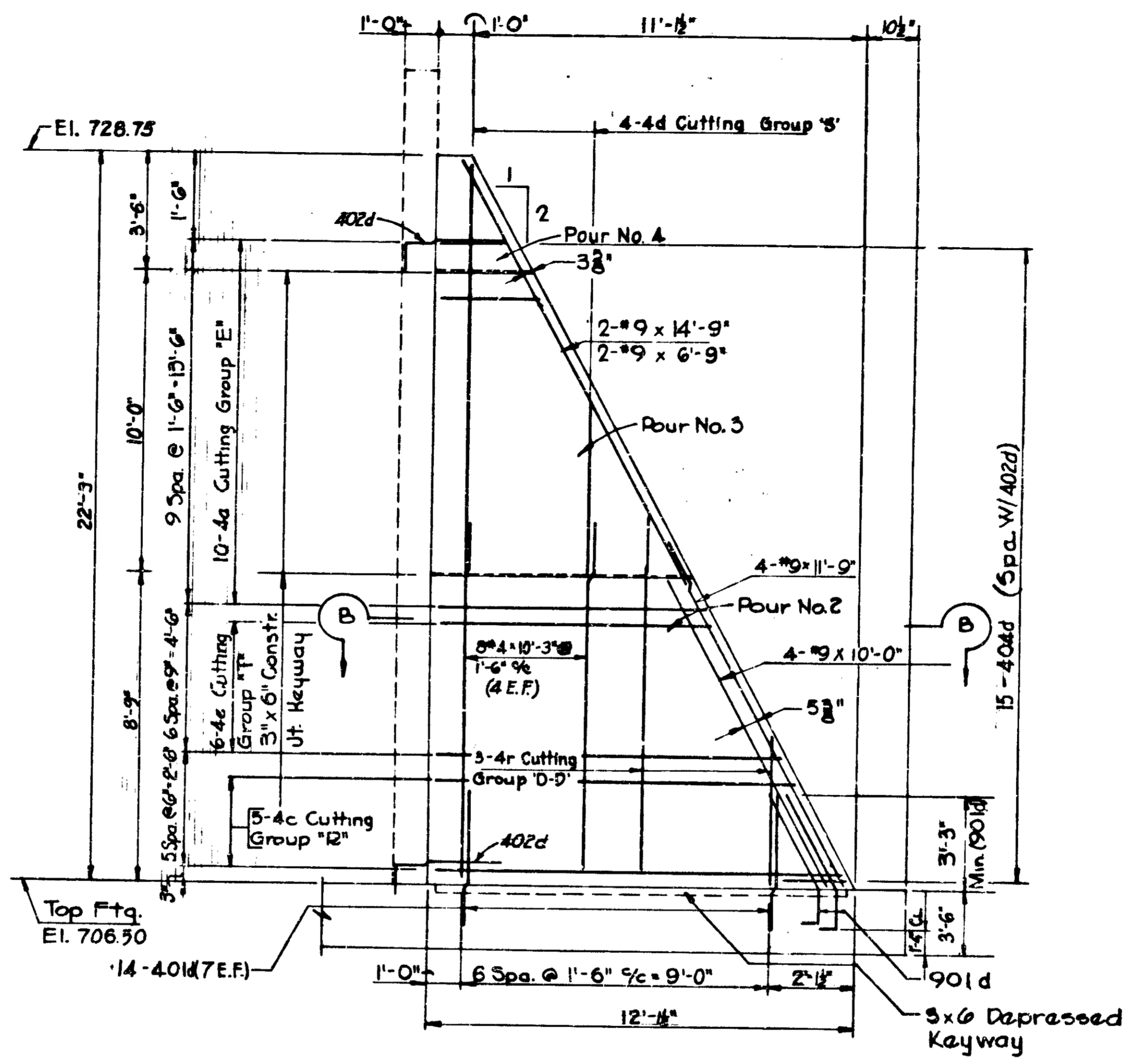
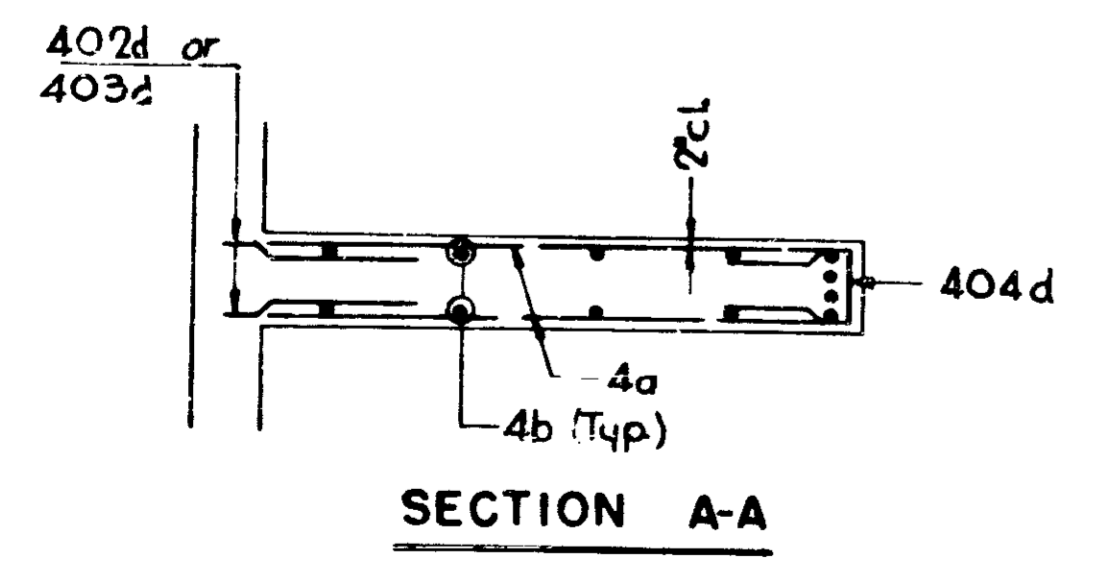
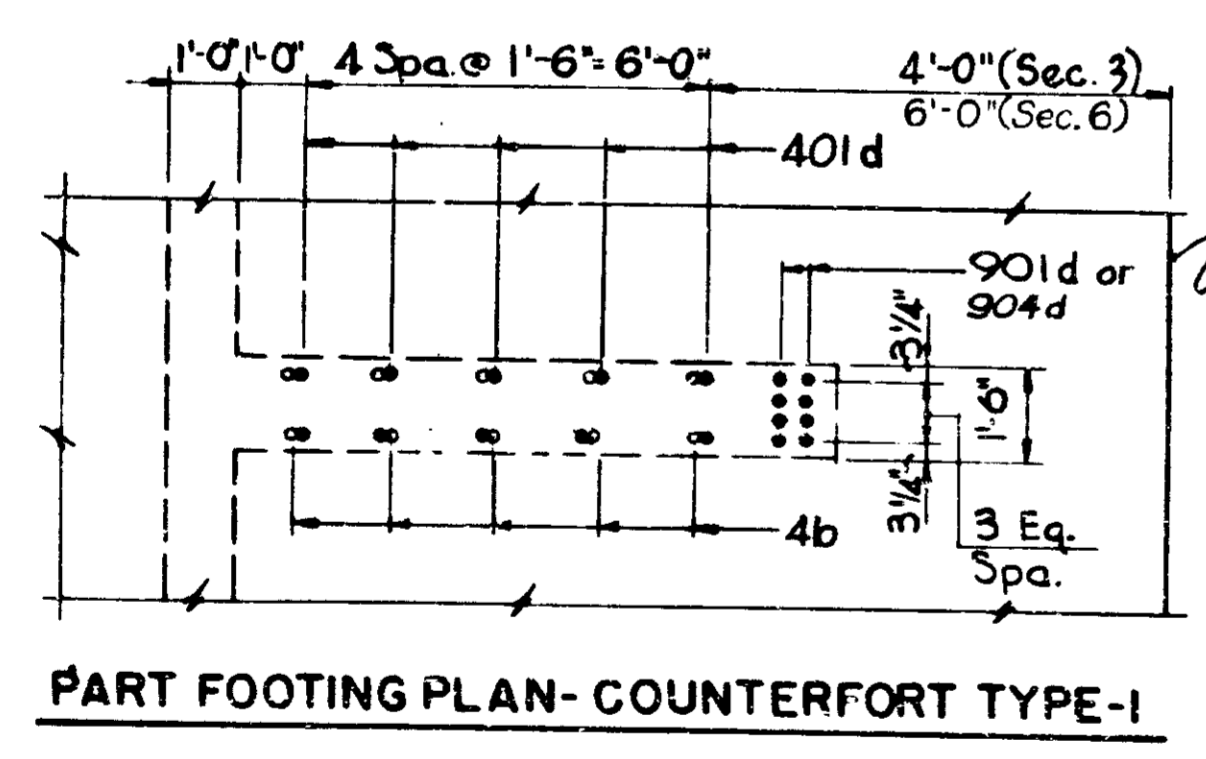
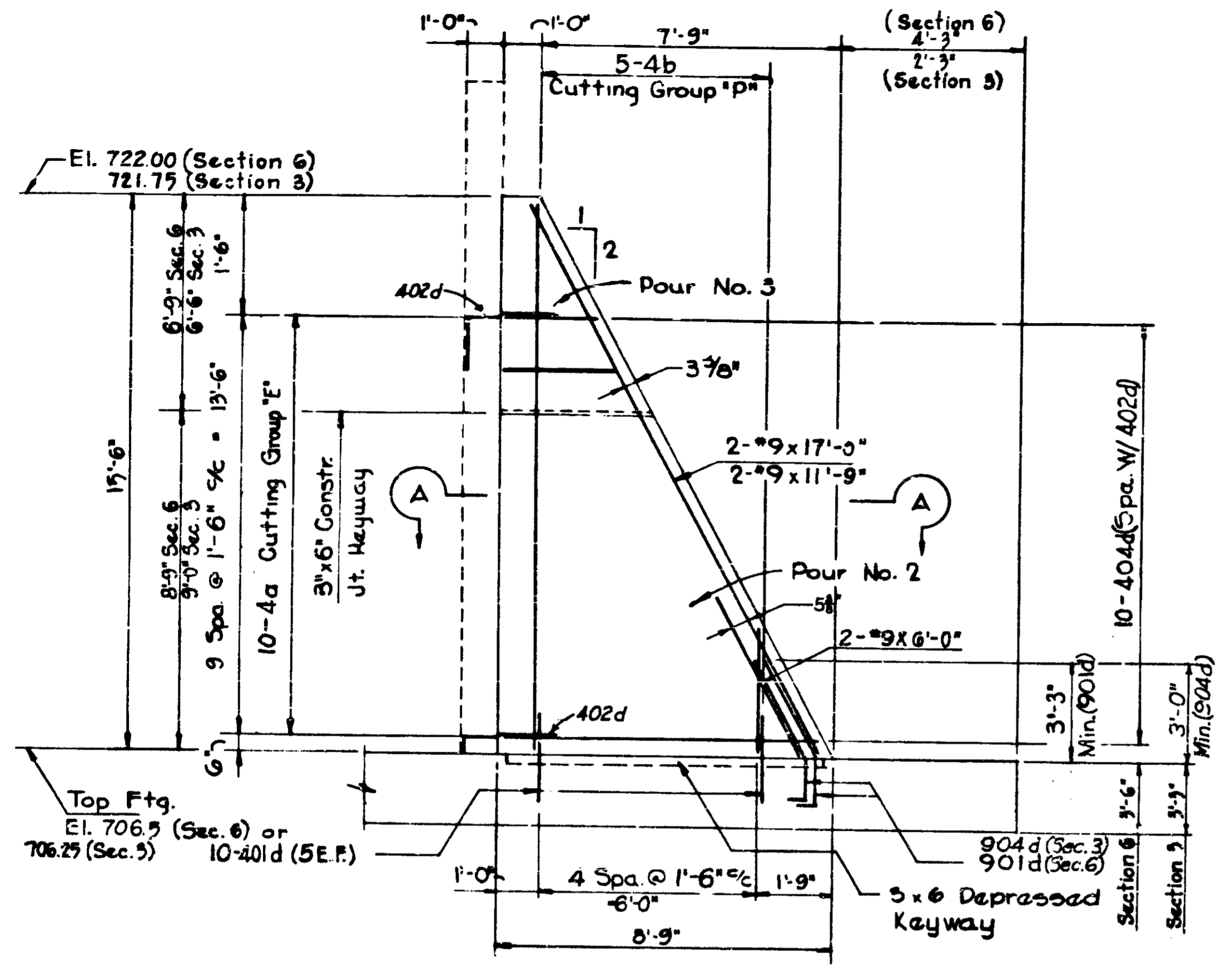
1971



DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (11) 77		74	139	

BRIDGES OVER 20' SPAN				
PUR. ROAD	STATE	PROJECT	FISCAL YEAR	TOTAL SHEETS
5	IND.	1-70-3 (10) 77	197	75 139



Note: For Additional Details of Steel Extending from footing for Counterfort Type 1 See Sheet Nos. 65 & 71 Detail 'C'

Note: For Additional Details of Steel Extending from footing for Counterfort Type 2 See Sheet No. 69 Detail 'C' & See Sheet No. 69 Detail 'A'

Notes:  
 See Sheet No. 67 for Gen. Arrangement Retaining Wall 4  
 See Sheet No. 10 for Location of Retaining Wall 4  
 See Sheet No. 79 for Reinf. Bar Diagrams  
 See Sheet No. 80 for Bill of Material

**COUNTERFORT DETAILS TYPES 1 & 2  
 INDIANA STATE HIGHWAY COMMISSION**

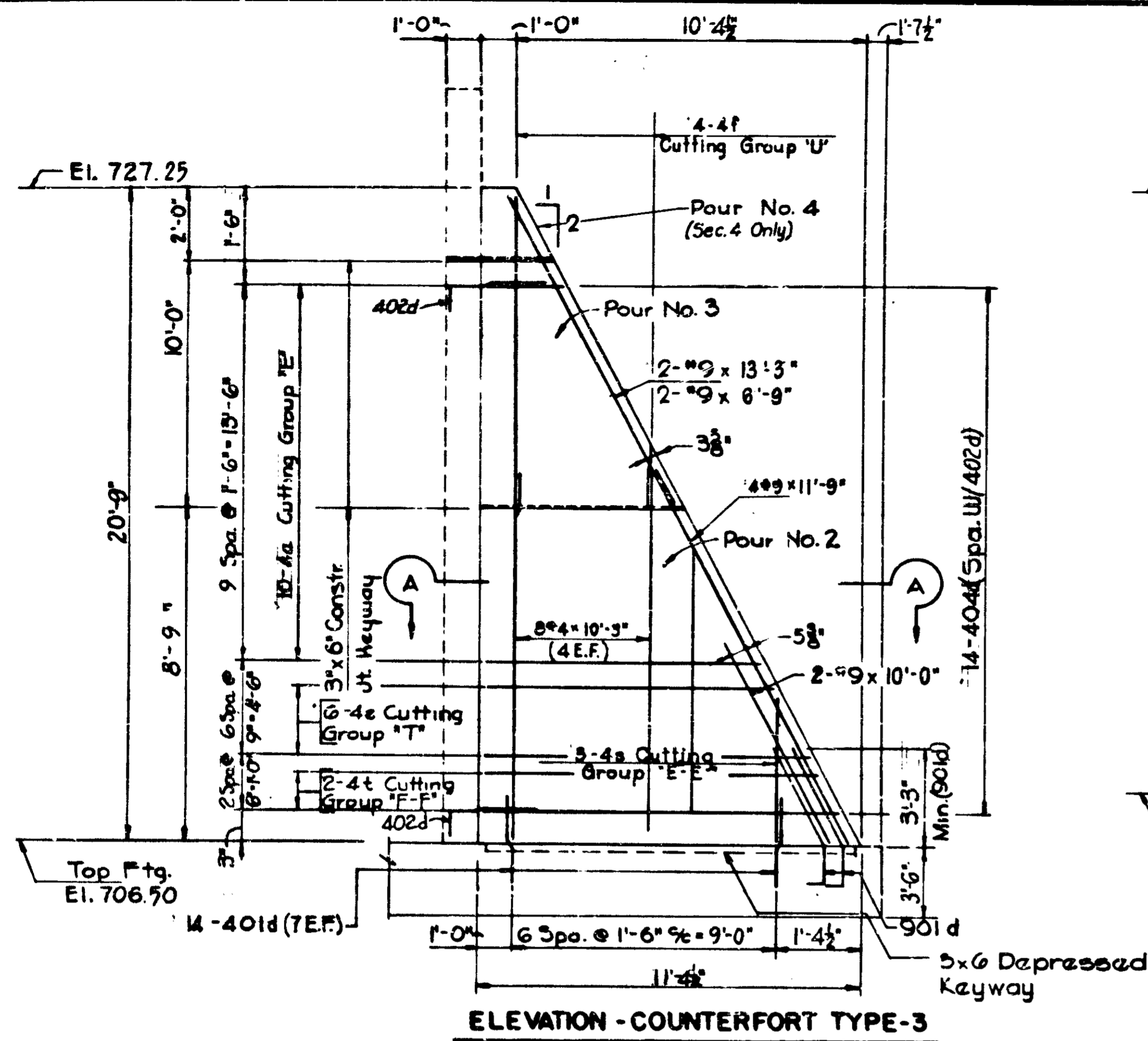
SCALE: NONE  
 SUBMITTED FOR APPROVAL: *[Signature]*  
 DRAWING: QF  
 PROJECT: -



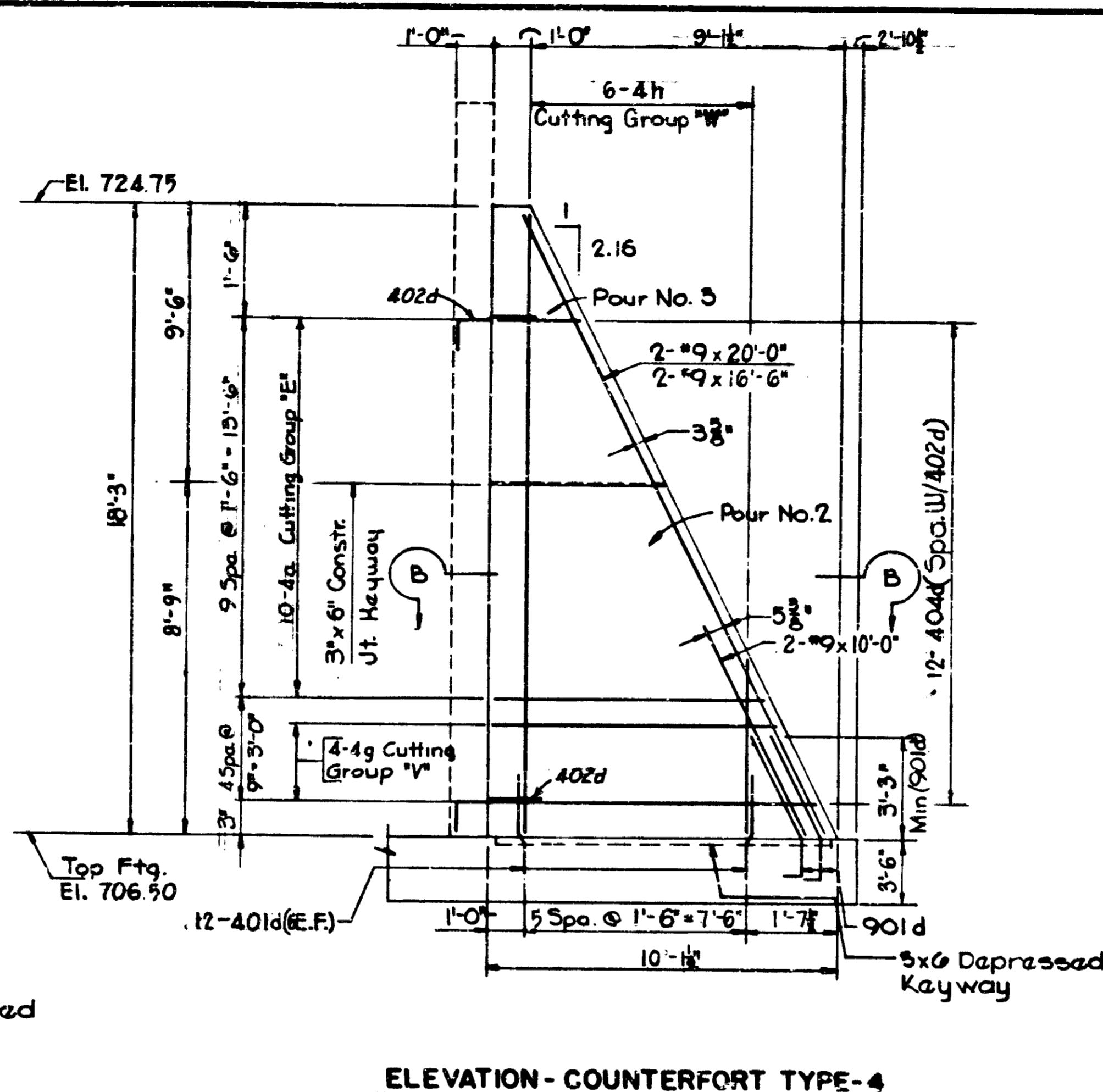
DESIGNED	C.R.D.
DRAWN	C.R.D.
TRACED	C.R.D.

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (10) 77		75	139	

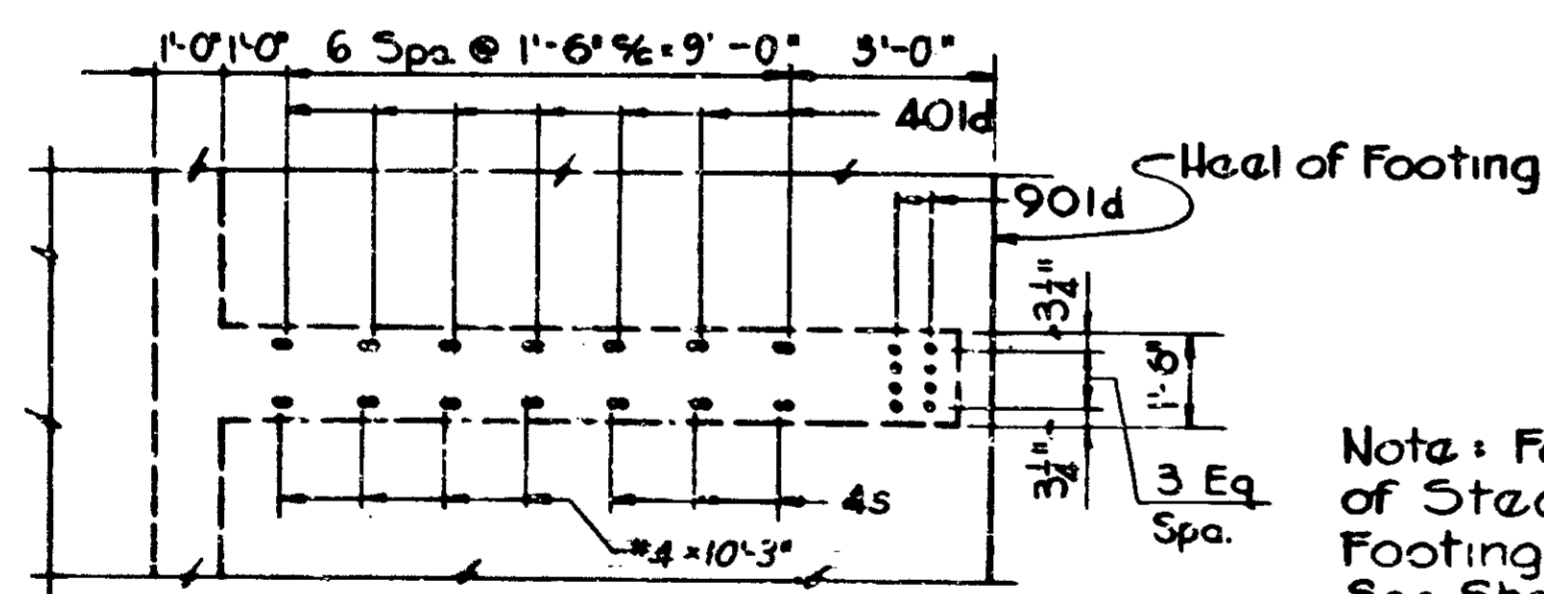
BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-5 (1177)	197	76	139



ELEVATION - COUNTERFORT TYPE-3

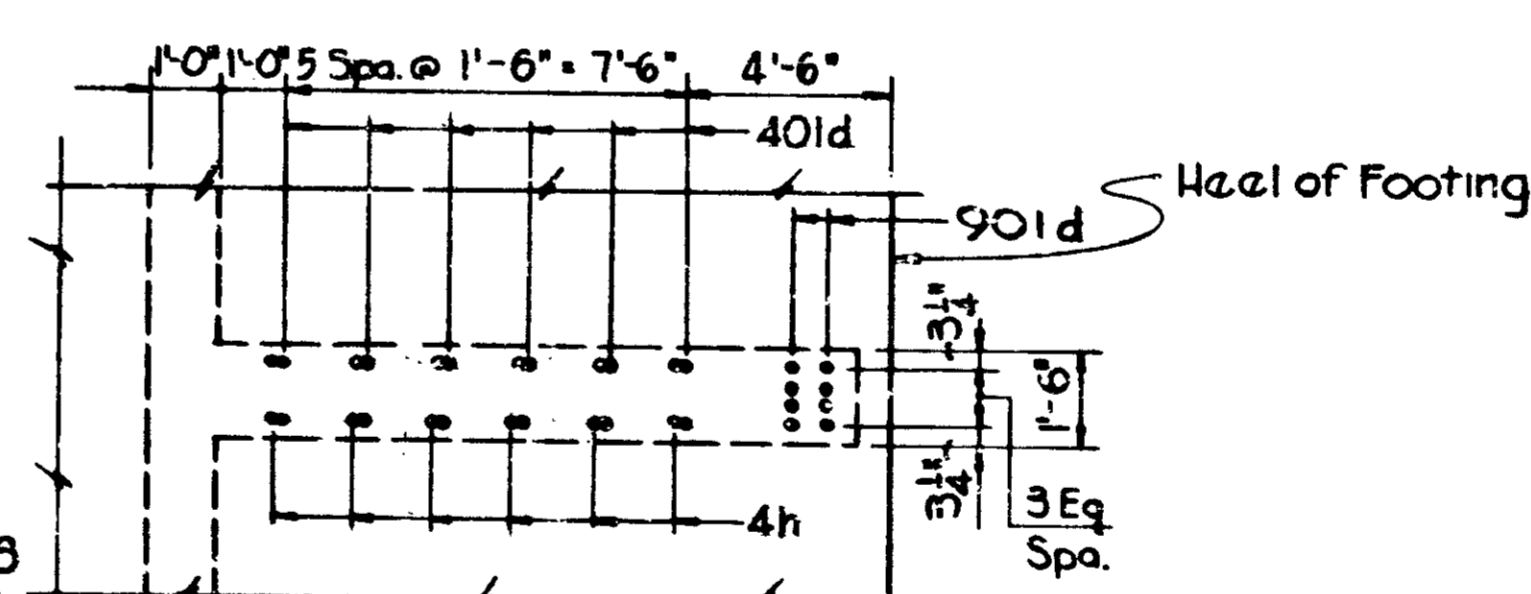


ELEVATION - COUNTERFORT TYPE-4



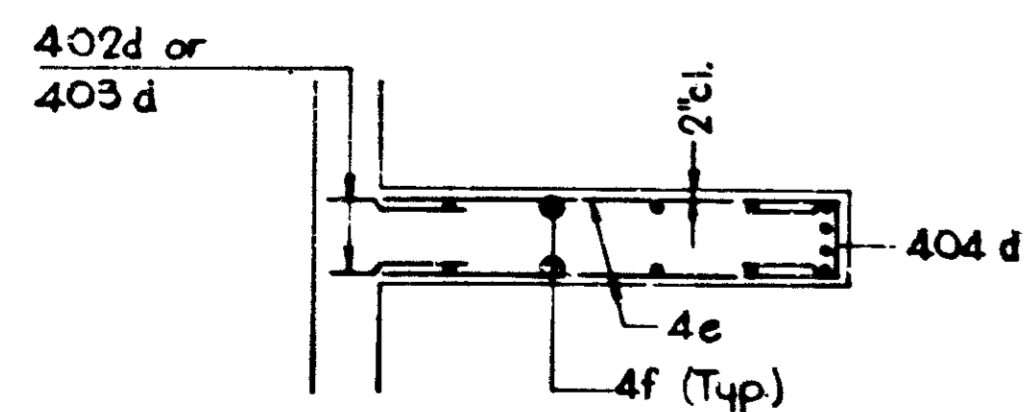
PART FOOTING PLAN - COUNTERFORT TYPE-3

Note: For Additional Details of Steel Extending from Footing for Counterfort Type 3 See Sheet No. 67 Detail 'B' & Sheet No. 71 Detail 'A'



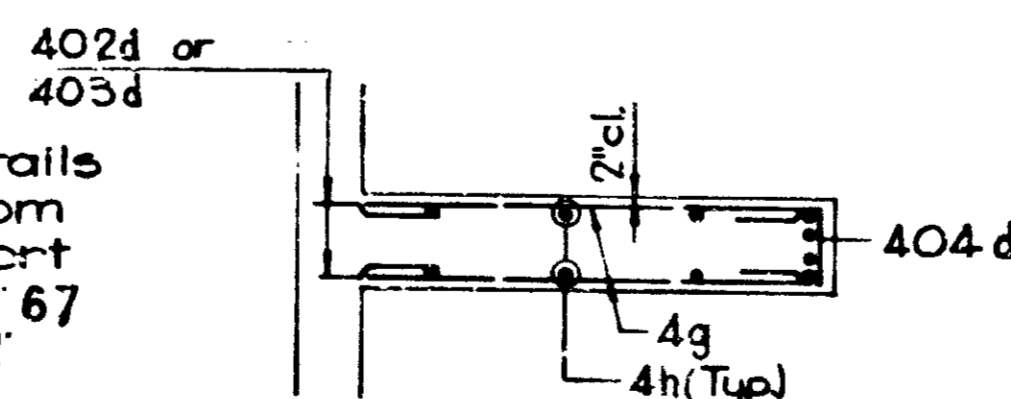
PART FOOTING PLAN - COUNTERFORT TYPE-4

Note:  
See Sheet No. 58 for Gen. Arrangement Retaining Wall 4  
See Sheet No. 10 for Location Retaining Wall 4  
See Sheet No. 79 for Reinf. Bar Diagrams  
See Sheet No. 80 for Bill of Material



SECTION A-A

Note: For Additional Details of Steel Extending from Footing for Counterfort Type 4 See Sheet No. 67 Detail 'A' & Sheet No. 71 Detail 'B'



SECTION B-B

DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

COUNTERFORT DETAILS TYPES 3 & 4  
INDIANA STATE HIGHWAY COMMISSION

SCALE: - NONE

SUBMITTED FOR APPROVAL: *Shawtoley*

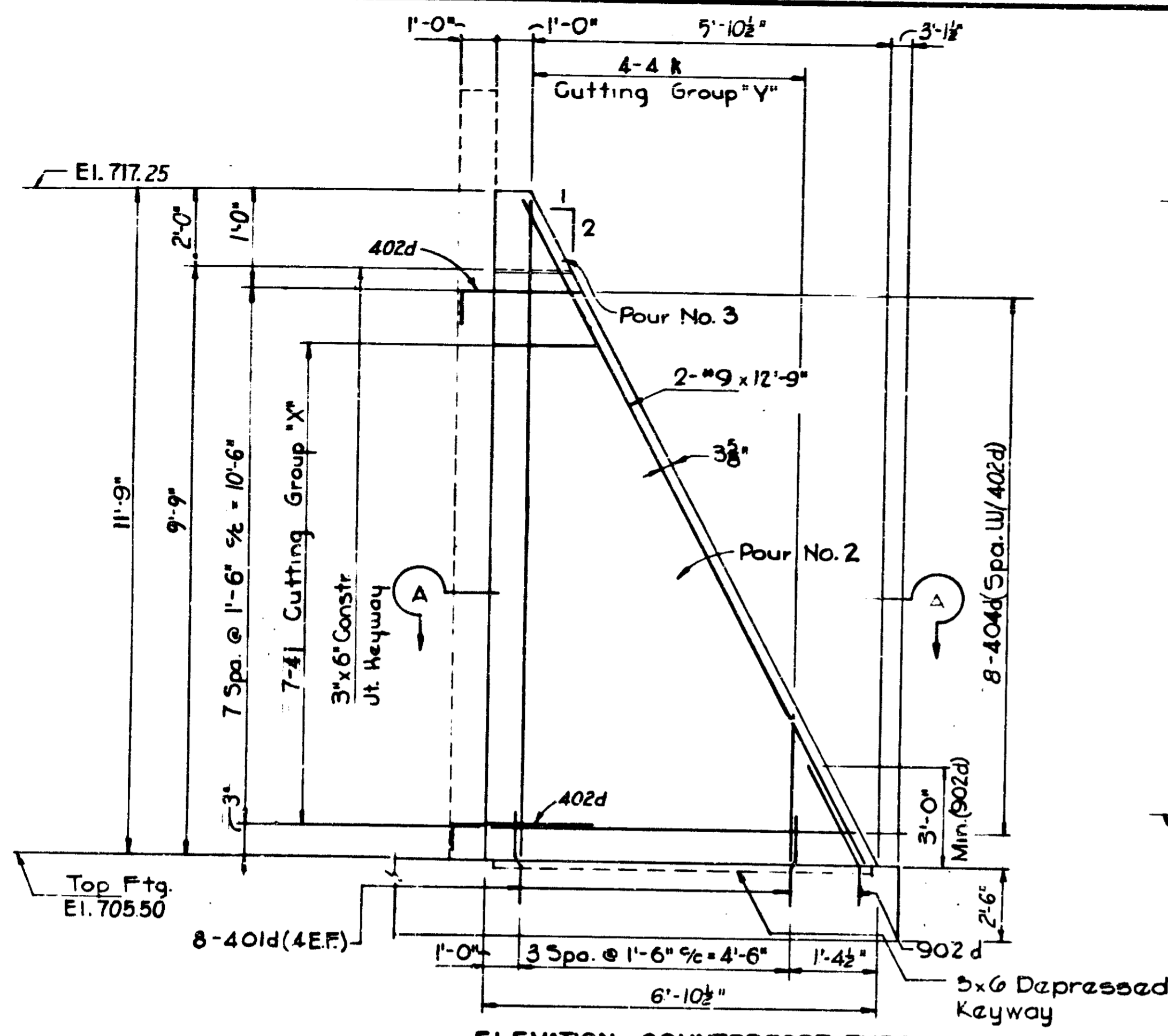
DRAWING: OF PROJECT: -



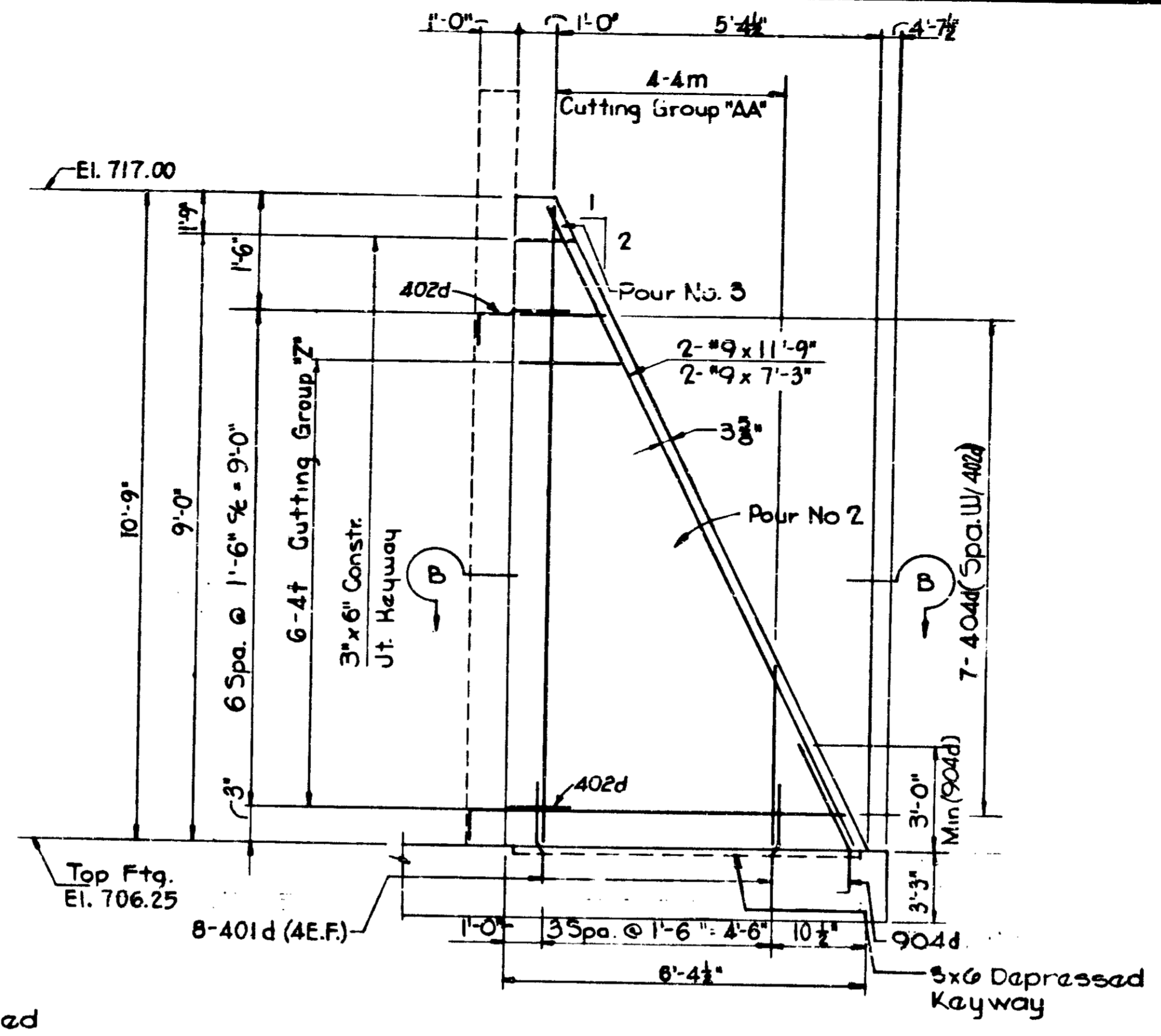
PROJECT NO.	DATE	SHEET NO.	TOTAL SHEETS
1-70-5 (1177)	76	139	



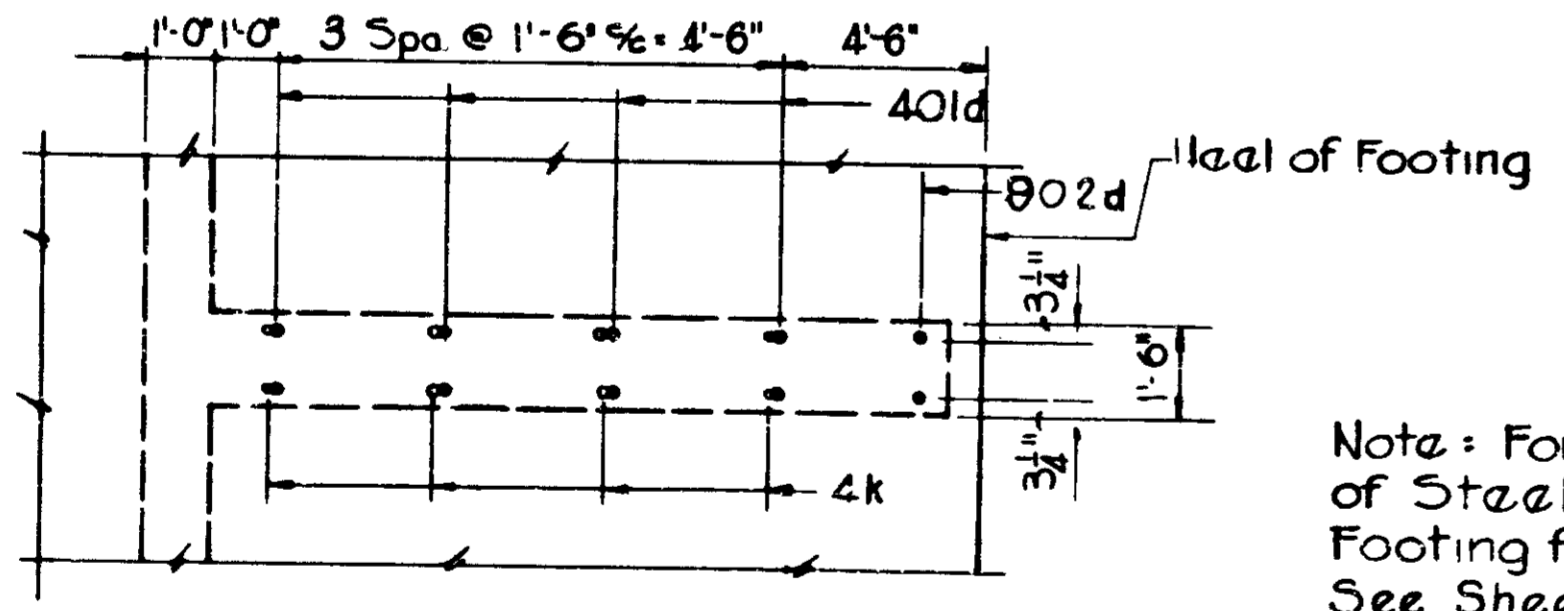
BRIDGES OVER 20' SPAN					
FILE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3 (117)	197	77	139



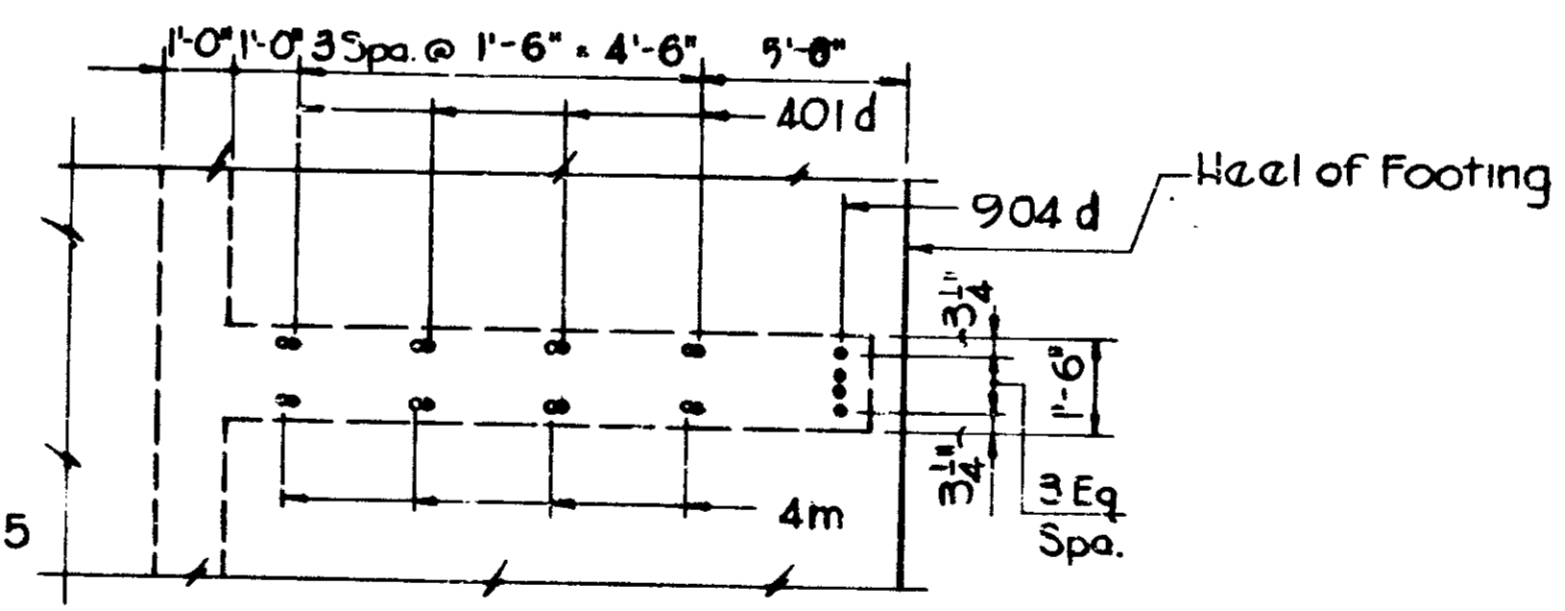
ELEVATION - COUNTERFORT TYPE-5



ELEVATION - COUNTERFORT TYPE-6



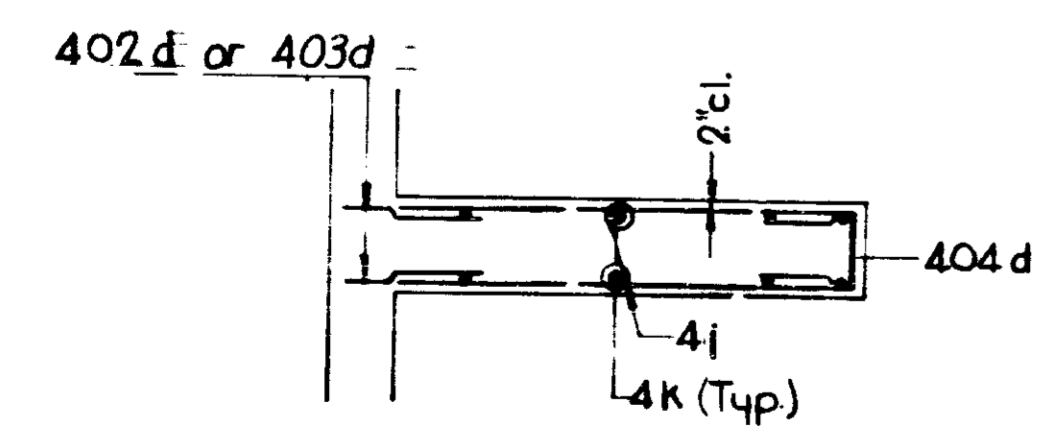
PART FOOTING PLAN - COUNTERFORT TYPE-5



PART FOOTING PLAN - COUNTERFORT TYPE-6

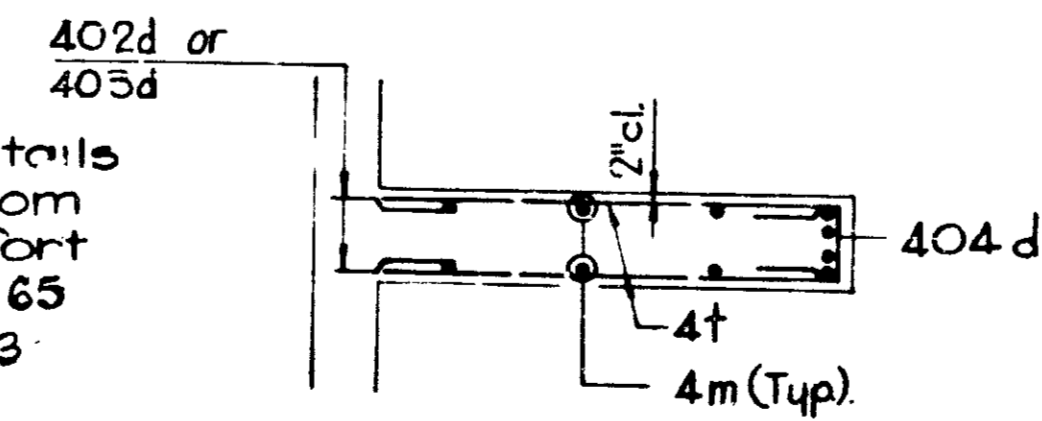
Note: For Additional Details of Steel Extending from Footing for Counterfort Type 5 See Sheet No. 63 Detail "A"

Note:  
See Sheet No. 60 for Gen. Arrangement Retaining Wall 4  
See Sheet No. 10 for Location of Retaining Wall 4  
See Sheet No. 79 for Reinf. Bar Diagrams  
See Sheet No. 80 for Bill of Material



SECTION A-A

Note: For Additional Details of Steel Extending from Footing for Counterfort Type 6 See Sheet No. 65 Detail "A" & Sheet No. 73 Detail "B"



SECTION B-B

COUNTERFORT DETAILS TYPES 5 & 6  
INDIANA STATE HIGHWAY COMMISSION

SCALE: NONE

SUBMITTED FOR APPROVAL: *[Signature]*

DRAWING: OF

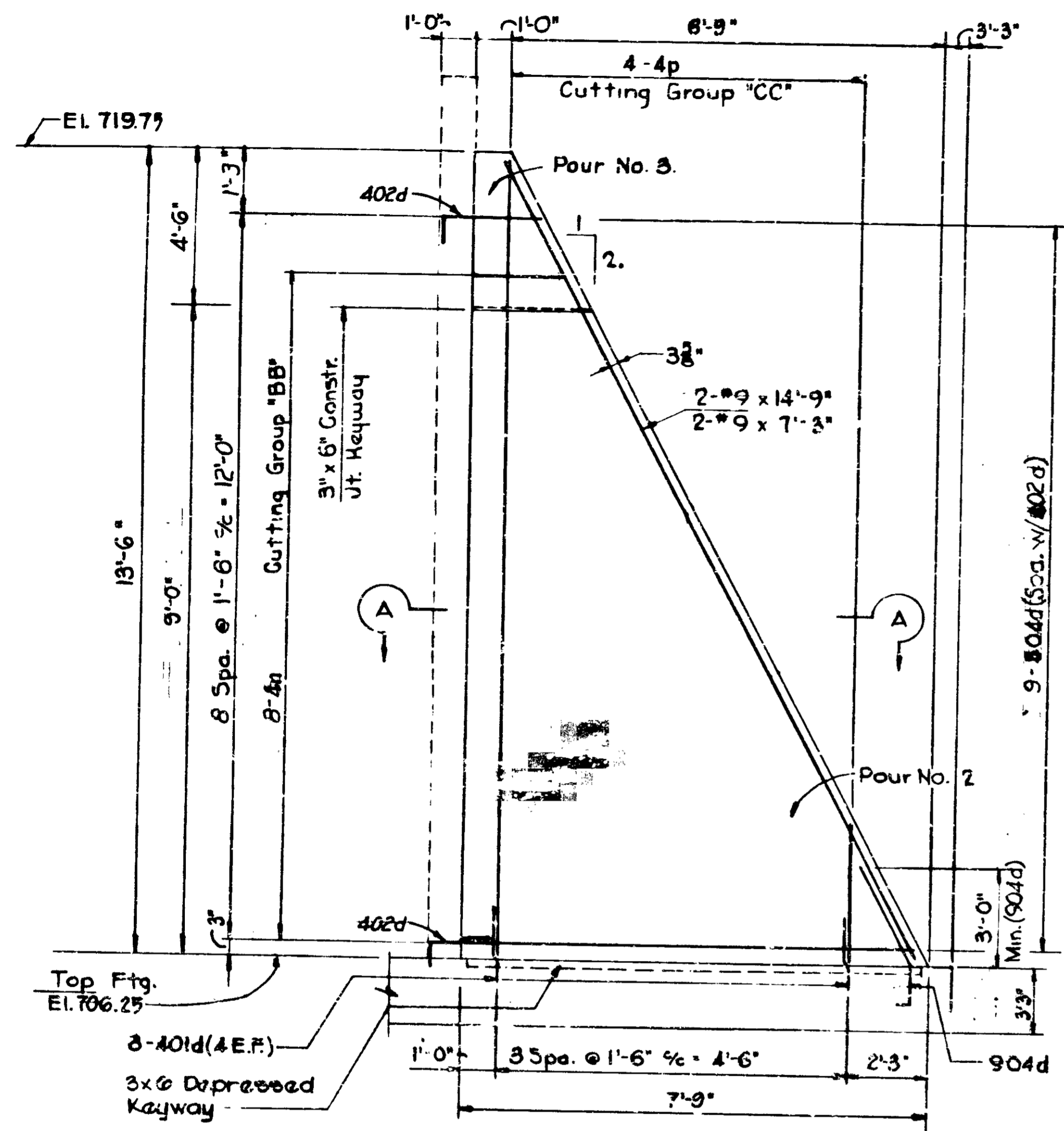
PROJECT: -



DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

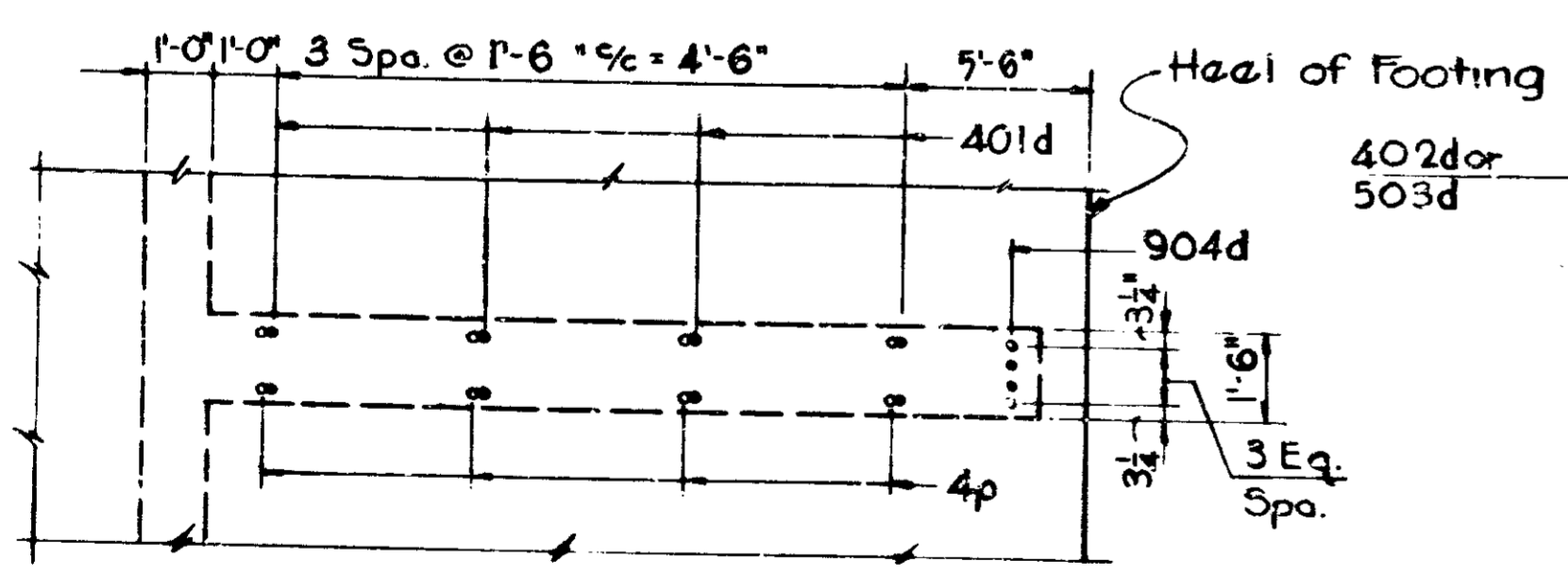
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3 (117)		77	139	

BRIDGES OVER 20' SPAN					
PUB ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1703 71(17)	197	78	139

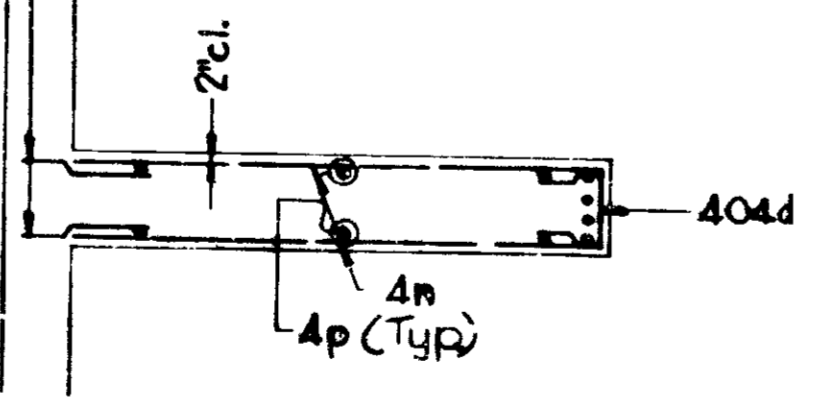


**ELEVATION-COUNTERFORT TYPE-7**

Note: For Additional Details of Steel Extending from Footing for Counterfort Type 7 See Sheet No. 73 Detail 'A'



**PART FOOTING PLAN-COUNTERFORT TYPE-7**



**SECTION A-A**

Note:  
 See Sheet No. 80 for Gen. Arrangement Retaining Wall 4  
 See Sheet No. 10 for Gen. Plan  
 See Sheet No. 79 for Reinf. Bar Diagrams  
 See Sheet No. 80 for Bill of Material

**COUNTERFORT DETAILS TYPE 7  
 INDIANA STATE HIGHWAY COMMISSION**

SCALE:- NONE

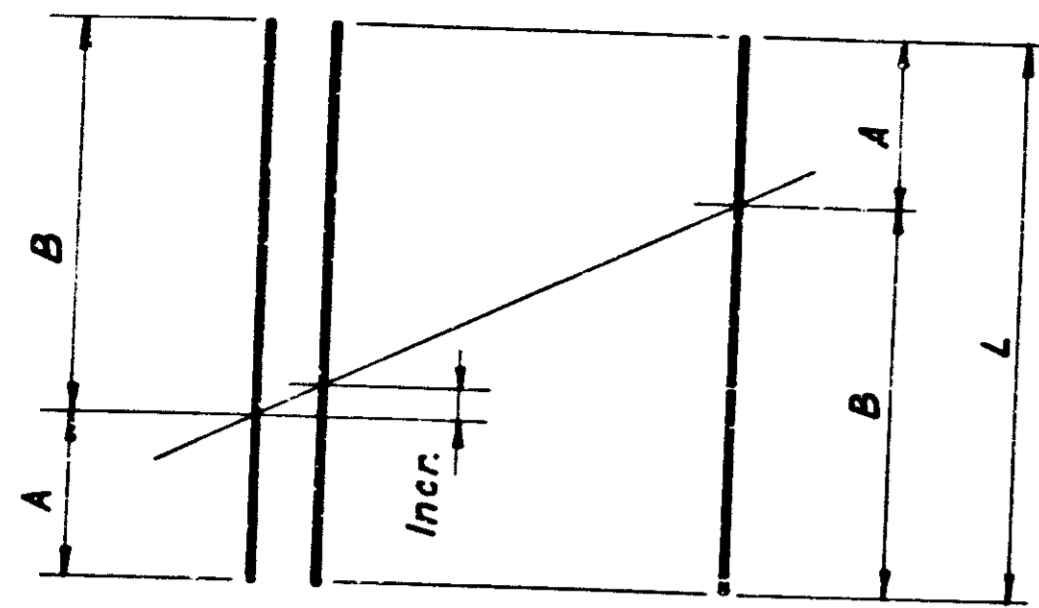
SUBMITTED FOR APPROVAL: *B. H. ...*

DRAWING: OF PROJECT:-

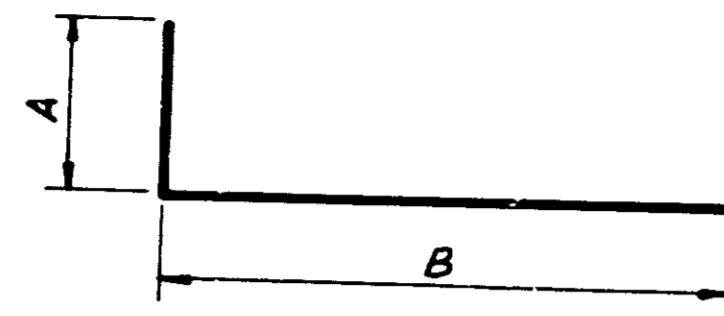


DESIGNED	CKD
DRAWN	CKD
TRACED	CKD

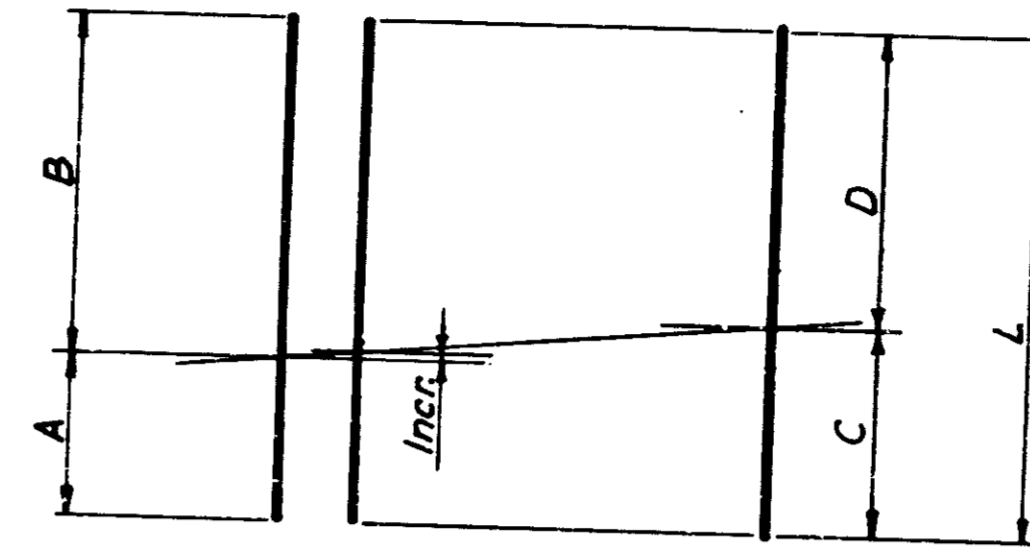
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-78-3-00-77		78	139	



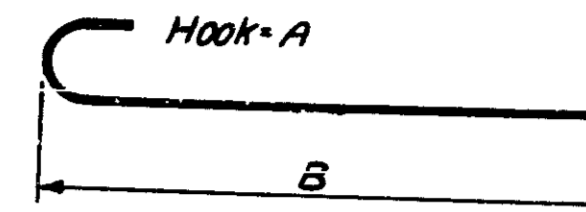
1 Bar Cuts 2 Lengths  
TWO-FACE CUTTING  
GROUP DIAGRAM



Mark or Size	Dimension		Length
	A	B	
401d	9"	3'-6"	4'-3"
402d	8"	2'-4"	3'-0"
601d	1'-0"	4'-3"	5'-3"
602d	1'-0"	3'-3"	4'-3"
1002d	1'-10"	6'-2"	8'-0"
1003d	1'-10"	4'-8"	6'-6"



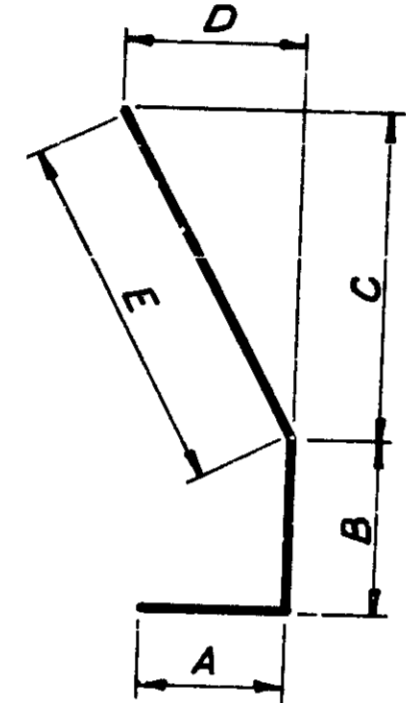
1 Bar Cuts 2 Lengths  
ONE-FACE CUTTING  
GROUP DIAGRAM



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(71)	1971	79	139

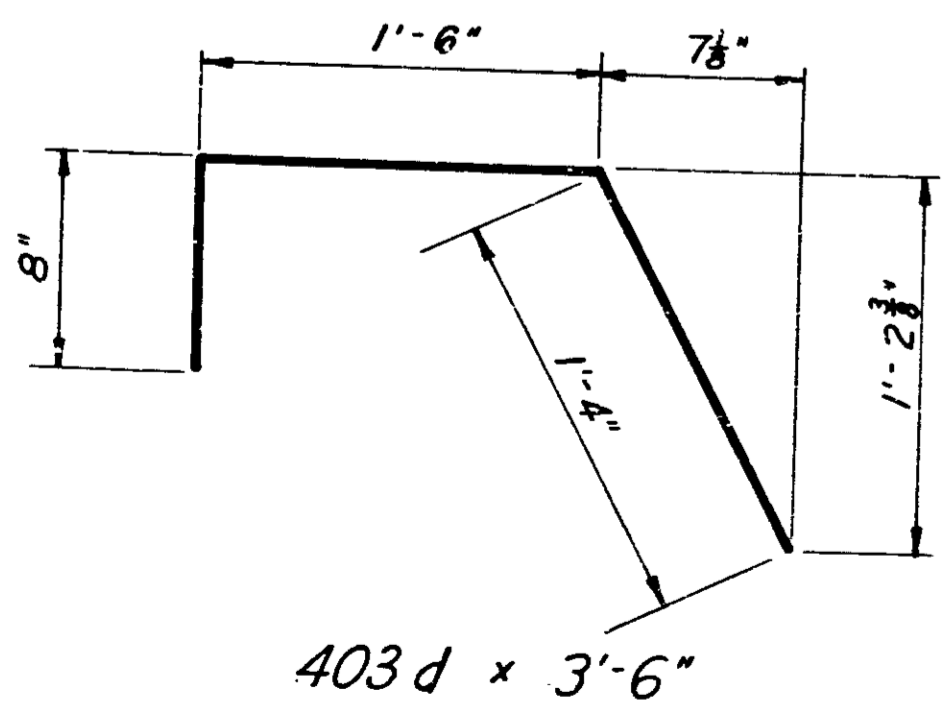
Mark or Size	Dimensions		Length
	A	B	
701d	1'-2"	6'-1"	7'-3"
801d	1'-1"	9'-11"	11'-0"
903d	1'-3"	6'-0"	7'-3"
1001d	1'-5"	6'-1"	7'-6"
1004d	1'-5"	9'-4"	10'-9"
1101d	1'-7"	6'-8"	8'-3"
1102d	1'-7"	9'-8"	11'-3"

Cutting Group	Mark or Size	No. of Size	A	B	Incr.	L
D	6a	17	13'-4"	15'-0"	1 1/2"	28'-4"
E	4a	10	7'-7"	8'-4"	9"	9'-11"
F	6c	49	5'-4"	10'-11"	1 1/2"	16'-3"
G	6d	49	11'-11"	15'-5"	1 1/2"	26'-6"
J	6f	25	8'-0"	15'-3"	3 1/2"	23'-3"
K	6g	17	3'-0"	8'-0"	3 1/2"	11'-0"
P	4b	5	3'-3"	15'-3"	3'-0"	18'-6"
R	4c	5	10'-10"	11'-10"	3"	22'-8"
S	4d	4	4'-3"	13'-3"	3'-0"	17'-6"
T	4e	6	8'-8 1/2"	10'-7"	4 1/2"	19'-3 1/2"
U	4f	4	2'-9"	11'-9"	3'-0"	14'-6"
V	4g	4	8'-8 1/2"	9'-10"	4 1/2"	18'-6 1/2"
W	4h	6	3'-0"	18'-0"	3'-0"	21'-0"
X	4j	7	2'-0"	6'-6"	9"	8'-6"
Y	4k	4	2'-6"	11'-6"	3'-0"	14'-0"
Z	4l	6	2'-3"	6'-0"	9"	8'-3"
A-A	4m	4	1'-6"	10'-6"	3'-0"	12'-0"
B-B	4n	8	2'-1 1/2"	7'-4 1/2"	9"	9'-6"
C-C	4p	4	4'-3"	13'-3"	3'-0"	17'-6"
D-D	4r	3	4'-0"	10'-0"	3'-0"	14'-0"
E-E	4s	3	2'-8"	8'-6"	3'-0"	11'-0"
F-F	4t	2	10'-10"	11'-1"	3"	21'-11"

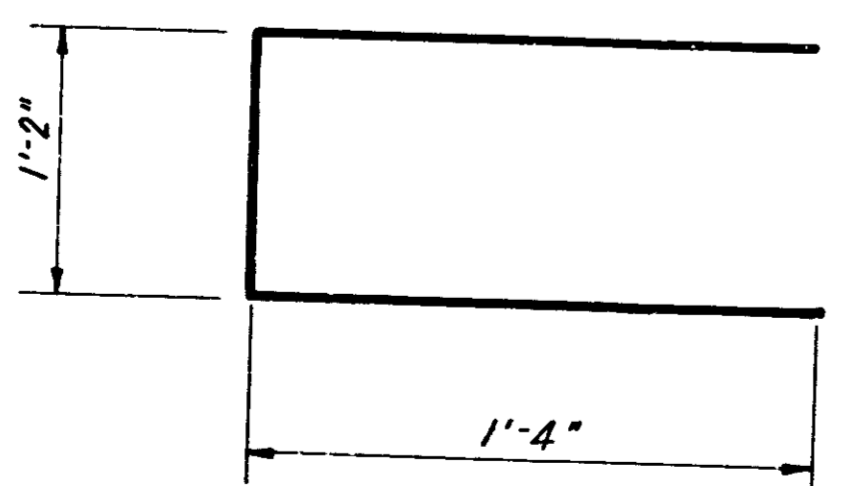


Mark or Size	Dimensions					Length
	A	B	C	D	E	
901d	1'-8"	2'-2"	3'-3 1/2"	1'-7 1/2"	3'-8"	7'-6"
902d	1'-8"	1'-2"	3'-0 1/2"	1'-6 1/2"	3'-5"	6'-3"
904d	1'-8"	1'-11"	3'-0 1/2"	1'-6 1/2"	3'-5"	7'-0"

Cutting Group	Mark or Size	No. of Bars	A	B	C	D	Incr.	L
A	10a	31	5'-7"	9'-10"	7'-7 1/2"	7'-9 1/2"	1 1/2"	15'-5"
B	5a	31	5'-7"	9'-10"	7'-7 1/2"	7'-9 1/2"	1 1/2"	15'-5"
C	10b	25	10'-0"	13'-4"	11'-7 1/2"	11'-8 1/2"	1 1/2"	23'-4"
L	6h	18	5'-6"	12'-6"	8'-10 1/2"	9'-1 1/2"	2 1/2"	18'-0"
M	10c	18	5'-6"	12'-6"	8'-10 1/2"	9'-1 1/2"	2 1/2"	18'-0"
N	5b	25	10'-0"	13'-4"	11'-7 1/2"	11'-8 1/2"	1 1/2"	23'-4"



403d x 3'-6"



404d x 3'-10"

RETAINING WALL 4  
BAR DETAILS  
INDIANA STATE HIGHWAY  
COMMISSION

SCALE: NONE

SUBMITTED FOR APPROVAL: *[Signature]* 3-29-71

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3(71)77		79	139	

# BILLS OF MATERIAL

SECTION 1 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
100d	54	7'-6"	
1003d	126	6'-6"	
10a	3	15'-5"	
10	1	5'-6"	
10	1	9'-9"	
<b>Total #10 Bars =</b>			<b>8,357</b>
8	126	7'-0"	
<b>Total #8 Bars =</b>			<b>2,355</b>
6	44	17'-9"	
<b>Total #6 Bars =</b>			<b>1,173</b>
5a	31	15'-5"	
5	2	5'-0"	
5	1	3'-6"	
5	2	6'-6"	
5	2	8'-0"	
5	1	9'-9"	
5	36	22'-0"	
<b>Total #5 Bars =</b>			<b>1,381</b>
<b>Total Reinforcing Steel *</b>			<b>13,266 lbs.</b>

SECTION 2 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
*1002d	120	8'-0"	
10b	25	23'-4"	
10	1	9'-9"	
<b>Total #10 Bars =</b>			<b>5,994</b>
902d	8	6'-3"	
903d	33	7'-3"	
9	100	9'-3"	
9	4	12'-9"	
<b>Total #9 Bars =</b>			<b>4,302</b>
701d	100	7'-3"	
7	1	15'-0"	
7	10	27'-0"	
<b>Total #7 Bars =</b>			<b>2,064</b>
602d	34	4'-3"	
6a	17	28'-4"	
6	34	11'-3"	
6	50	14'-6"	
6	42	18'-9"	
<b>Total #6 Bars =</b>			<b>3,787</b>
5b	25	23'-4"	
5	1	9'-9"	
5	2	10'-3"	
5	2	11'-9"	
5	1	15'-0"	
5	18	25'-0"	
5	26	26'-6"	
<b>Total #5 Bars =</b>			<b>1,868</b>
401d	16	4'-3"	
402d	32	3'-0"	
403d	4	3'-6"	
404d	16	3'-10"	
4j	14	8'-6"	
4k	8	14'-0"	
<b>Total #4 Bars =</b>			<b>314</b>
<b>Total Reinforcing Steel =</b>			<b>18,329 lbs.</b>

SECTION 3 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
*1101d	75	8'-3"	
11	205	18'-9"	
<b>Total #11 Bars =</b>			<b>23,709</b>
904d	32	7'-0"	
9	4	6'-0"	
9	8	7'-3"	
9	6	11'-9"	
9	6	14'-9"	
9	4	17'-0"	
<b>Total #9 Bars =</b>			<b>1,812</b>
601d	102	5'-3"	
6c	49	16'-3"	
6	2	3'-0"	
6	2	5'-3"	
6	104	11'-0"	
6	2	14'-6"	
6	2	17'-9"	
6	2	22'-9"	
6	31	25'-0"	
6	62	26'-9"	
6	100	12'-6"	
<b>Total #6 Bars =</b>			<b>9,442</b>
401d	52	4'-3"	
402d	108	3'-0"	
403d	12	3'-6"	
404d	54	3'-10"	
4a	20	9'-11"	
4b	10	18'-6"	
4m	4	12'-0"	
4n	24	9'-6"	
4p	12	17'-6"	
4t	6	8'-3"	
<b>Total #4 Bars =</b>			<b>1,144</b>
<b>Total Reinforcing Steel</b>			<b>36,107 lbs.</b>

SECTION 4 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
1004d	150	10'-9"	
10	220	18'-6"	
<b>Total #10 Bars =</b>			<b>24,452</b>
901d	48	7'-6"	
9	6	6'-9"	
9	14	10'-0"	
9	12	11'-9"	
9	4	13'-3"	
9	2	14'-9"	
9	6	16'-6"	
9	6	20'-0"	
<b>Total #9 Bars =</b>			<b>3,342</b>
7	25	25'-0"	
7	50	27'-3"	
<b>Total #7 Bars =</b>			<b>4,062</b>
601d	102	5'-3"	
6d	49	26'-6"	
6	102	10'-9"	
6	2	11'-0"	
6	100	14'-9"	
6	2	15'-6"	
<b>Total #6 Bars =</b>			<b>6,697</b>
5	25	25'-0"	
5	50	26'-6"	
<b>Total #5 Bars =</b>			<b>2,034</b>
401d	78	4'-3"	
402d	198	3'-0"	
403d	12	3'-6"	
404d	79	3'-10"	
4	24	10'-3"	
4a	60	9'-11"	
4c	5	22'-8"	
4d	4	17'-6"	
4e	18	19'-3 1/2"	
4f	8	14'-6"	
4g	12	18'-6 1/2"	
4h	18	21'-0"	
4r	3	14'-0"	
4s	6	11'-0"	
4t	4	21'-11"	
<b>Total #4 Bars =</b>			<b>2,374</b>
<b>Total Reinforcing Steel =</b>			<b>42,961 lbs.</b>

SECTION 5 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
1102d	95	11'-3"	
11	176	17'-6"	
<b>Total #11 Bars =</b>			<b>22,042</b>
901d	32	7'-6"	
9	8	6'-9"	
9	16	10'-0"	
9	16	11'-9"	
9	8	14'-6"	
<b>Total #9 Bars =</b>			<b>2,584</b>
7	26	24'-9"	
7	26	27'-3"	
<b>Total #7 Bars =</b>			<b>2,763</b>
601d	68	5'-3"	
6	68	10'-3"	
6	68	14'-6"	
6	68	15'-6"	
<b>Total #6 Bars =</b>			<b>4,698</b>
5	26	24'-9"	
5	26	26'-6"	
<b>Total #5 Bars =</b>			<b>1,390</b>
401d	56	4'-3"	
402d	168	3'-0"	
403d	8	3'-6"	
404d	60	3'-10"	
4	32	10'-3"	
4a	40	9'-11"	
4c	20	22'-8"	
4d	16	17'-6"	
4e	24	19'-3 1/2"	
4r	12	14'-0"	
<b>Total #4 Bars =</b>			<b>2,063</b>
<b>Total Reinforcing Steel</b>			<b>53,540 lbs.</b>

SECTION 6 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
1102d	71	11'-3"	
11	132	17'-6"	
<b>Total #11 Bars =</b>			<b>16,517</b>
901d	22	7'-6"	
9	2	6'-0"	
9	2	6'-9"	
9	4	10'-0"	
9	6	11'-9"	
9	2	13'-3"	
9	2	16'-6"	
9	2	17'-0"	
9	2	20'-0"	
<b>Total #9 Bars =</b>			<b>1,477</b>
7	1	4'-9"	
7	1	7'-3"	
7	1	12'-3"	
7	1	14'-9"	
7	44	19'-9"	
7	2	20'-3"	
<b>Total #7 Bars =</b>			<b>1,939</b>
601d	52	5'-3"	
6f	25	23'-3"	
6	52	10'-9"	
6	44	14'-6"	
6	2	15'-6"	
<b>Total #6 Bars =</b>			<b>3,128</b>
5	1	4'-6"	
5	1	7'-3"	
5	1	12'-0"	
5	1	14'-9"	
5	44	19'-6"	
5	2	19'-9"	
<b>Total #5 Bars =</b>			<b>976</b>
401d	36	4'-3"	
402d	84	3'-0"	
403d	6	3'-6"	
404d	36	3'-10"	
4	8	10'-3"	
4a	30	9'-11"	
4b	5	18'-6"	
4e	6	19'-3 1/2"	
4f	4	14'-6"	
4g	4	18'-6 1/2"	
4h	6	21'-0"	
4s	3	11'-0"	
4t	2	21'-11"	
<b>Total #4 Bars =</b>			<b>993</b>
<b>Total Reinforcing Steel</b>			<b>25,030 lbs.</b>

SECTION 7 Reinforcing Steel			
Mark or Size	No. Bars	Length	Weight
1002d	73	8'-0"	
10c	18	8'-0"	
10	1	5'-3"	
<b>Total #10 Bars =</b>			<b>3,330</b>
904d	8	7'-0"	
9	4	7'-3"	
9	2	11'-3"	
9	2	14'-9"	
<b>Total #9 Bars =</b>			<b>469</b>
801d	63	11'-0"	
8	38	7'-6"	
8	1	8'-3"	
8	98	13'-9"	
8	48	15'-0"	
8	1	15'-9"	
8	1	23'-3"	
8	8	24'-9"	
8	1	25'-3"	
<b>Total #8 Bars =</b>			<b>8,854</b>
602d	34	4'-3"	
6g	17	11'-0"	
6h	18	18'-0"	
6	2	4'-6"	
6	1	5'-3"	
6	2	8'-0"	
6	1	8'-3"	
6	34	11'-0"	
6	2	12'-0"	
6	34	13'-6"	
6	2	15'-6"	
6	1	15'-9"	
6	2	19'-6"	
6	18	20'-6"	
6	4	21'-0"	
6	1	23'-3"	
6	8	24'-9"	
6	1	25'-3"	
<b>Total #6 Bars =</b>			<b>3,509</b>
401d	16	4'-3"	
402d	32	3'-0"	
403d	4	3'-6"	
404d	16	3'-10"	
4m	4	12'-0"	
4n	8	9'-6"	
4p	4	17'-6"	
4t	6	21'-11"	
<b>Total #4 Bars =</b>			<b>378</b>
<b>Total Reinforcing Steel</b>			<b>17,140 lbs.</b>

Concrete	
Pour No. 1 (Footings)	52.5
Pour No. 2A	10.0
Pour No. 2B	8.6
<b>Total Class 'A' Concrete</b>	<b>71.1 Cys.</b>

Miscellaneous	
Foundation Excavation	236 Cys.
"B" Borrow	216 Cys.
Paved Side Ditch Type "A"	67 L.F.
35 Treated Timber Piles @ 25'-0"	975 L.F.

Concrete	
Pour No. 1 (Footings)	90.3
Pour No. 2A	10.2
Pour No. 2B	9.0
Pour No. 2C	13.8
Pour No. 3B	2.7
Pour No. 3C	4.7
<b>Total Class 'A' Concrete</b>	<b>130.7 Cys.</b>

Miscellaneous	
Foundation Excavation	272 Cys.
"B" Borrow	497 Cys.
Paved Side Ditch Type "A"	79 L.F.
61 Treated Timber Piles @ 25'-0"	2,025 L.F.

Concrete	
Pour No. 1 (Footings)	144.4
Pour No. 2A	13.1
Pour No. 2B	13.8
Pour No. 3A	14.8
Pour No. 3B	6.7
Pour No. 3C	8.8
Pour No. 3C	11.4
<b>Total Class 'A' Concrete</b>	<b>213.0 Cys.</b>

Miscellaneous	
Foundation Excavation	290 Cys.
"B" Borrow	794 Cys.
Paved Side Ditch Type "A"	79 L.F.
152 Treated Timber Piles @ 25'-0"	2,375 L.F.

Concrete	
Pour No. 1 (Footings)	204.2
Pour No. 2A	15.8
Pour No. 2B	16.4
Pour No. 2C	17.4
Pour No. 3A	12.8
Pour No. 3B	13.5
Pour No. 3C	14.7
Pour No. 4A	1.9
Pour No. 4B	3.4
Pour No. 4C	5.2
<b>Total Class 'A' Concrete</b>	<b>305.3 Cys.</b>

Miscellaneous	
Foundation Excavation	334 Cys.
"B" Borrow	1241 Cys.
Paved Side Ditch Type "A"	79 L.F.
150 Treated Timber Piles @ 25'-0"	3,750 L.F.

Concrete	
Pour No. 1 (Footings)	139.2
Pour No. 2A	17.8
Pour No. 2B	17.8
Pour No. 3A	15.1
Pour No. 3B	15.1
Pour No. 4A	6.1
Pour No. 4B	6.1
<b>Total Class 'A' Concrete</b>	<b>217.2 Cys.</b>

Miscellaneous	
Foundation Excavation	243 Cys.
"B" Borrow	898 Cys.
Paved Side Ditch Type "A"	55 L.F.
102 Treated Timber Piles @ 25'-0"	2,550 L.F.

Concrete	
Pour No. 1 (Footings)	105.0
Pour No. 2A	23.8
Pour No. 3A	22.3
<b>Total Class 'A' Concrete</b>	<b>151.1 Cys.</b>

Miscellaneous	
Foundation Excavation	272 Cys.
"B" Borrow	439 Cys.
Paved Side Ditch Type "A"	67 L.F.
50 Treated Timber Piles @ 25'-0"	1,250 L.F.

Concrete	
Pour No. 1 (Footings)	84.4
Pour No. 2A	13.1
Pour No. 2B	12.7
Pour No. 3A	6.0
<b>Total Class 'A' Concrete</b>	<b>116.2 Cys.</b>

Miscellaneous	
Foundation Excavation	272 Cys.
"B" Borrow	439 Cys.
Paved Side Ditch Type "A"	67 L.F.
50 Treated Timber Piles @ 25'-0"	1,250 L.F.



### GUARD RAIL REQUIREMENTS

LOCATION	STA. TO STA.	LEFT	MED.	RIGHT	CLASS										
					A	B	**	G							
					LINEAR FEET										
I-70 I-70 I-70 I-70	313+25 - 317+00 313+00 - 317+37.5 310+00 - 322+00 323+32 - 325+84														
New Jersey St North & South of I-70 Alabama St North & South of I-70					60										
Capital Ave North of I-70 Ray St West of Capital Ave Kenwood Ave North of I-70 Ray St I-70 North Sta. 322+10 10 E-W					30										
Sub-Total	322+02.5 - 322+31				90										
9 N-W 9 N-W 9 N-W	310+15 - 313+15 315+52 - 318+09.5 316+04 - 319+41.5														
Sub-Total															
10 W-E Senate Ave South of I-70	320+25.5 - 321+52														
Sub-Total															
8 W-N 8 W-N 8 W-N 8 W-N 8 W-N 8 W-N 8 W-N 8 W-N	309+81 - 310+08 310+08 - 312+99 312+22 - 312+96 312+96.5 - 314+54 315+25 - 316+52 316+52 - 322+62 316+77 - 317+04 317+04 - 318+76														
Church St South of I-70 Capital Ave South of I-70 Kenwood Ave South of I-70 Illinois St South of I-70 Charles St South of I-70 Union St South of I-70 Wilkins St & Pennsylvania St Pennsylvania St South of I-70					30										
Sub-Total					120										
Charles St North of I-70					50										
Sub-Total					80										
* TOTALS					330										

\*\* Conc. Median  
Barrier Wall

\* Includes Total from Sheet No.

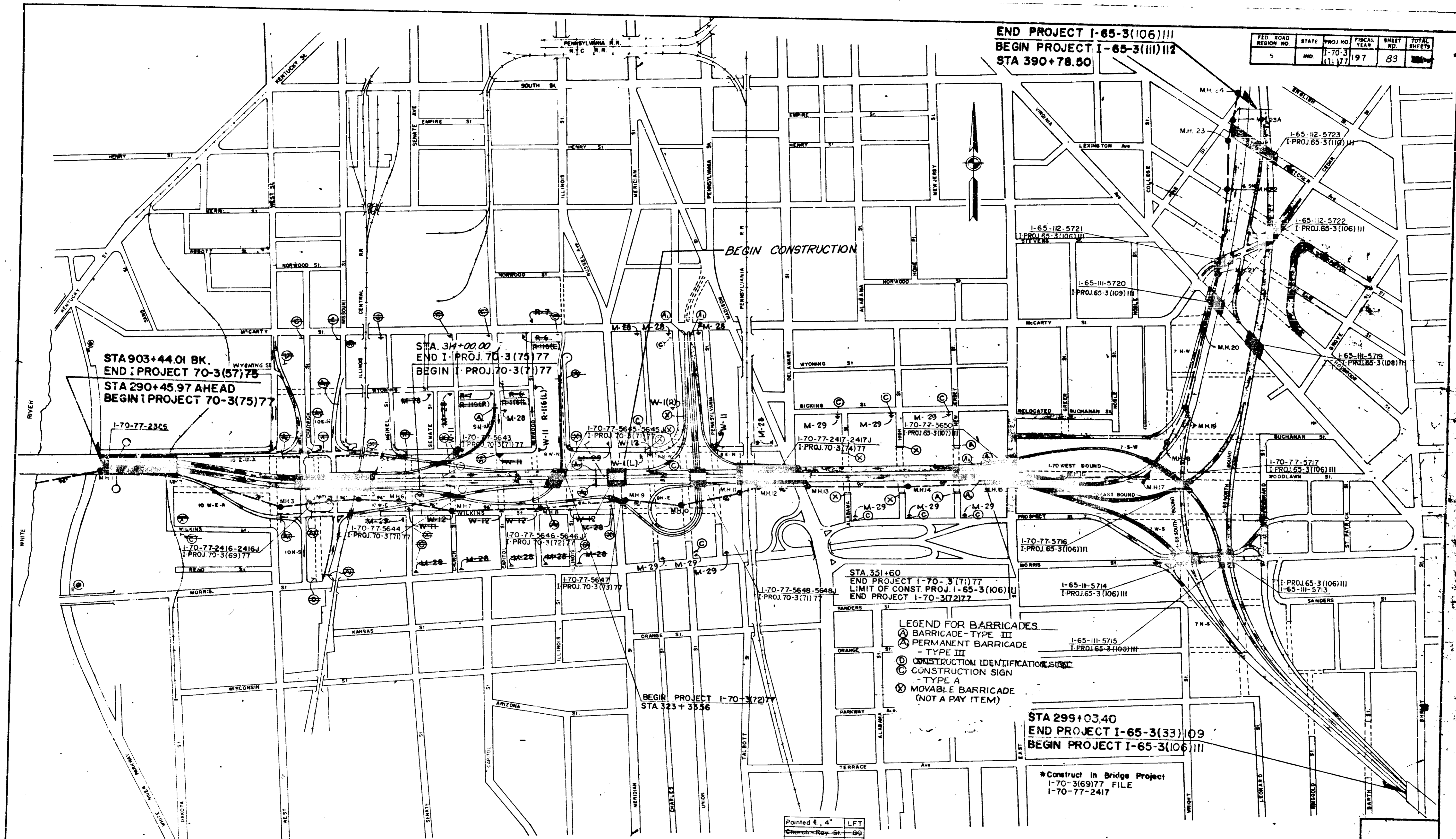
### PAVED SIDE DITCH REQUIREMENTS

LOCATION	STA. TO STA.	LEFT	MED.	RIGHT	TYPE										
					A	B	C	D	E	F					
					LINEAR FEET										
Sub-Total	10 E-W 310+55 - 314+53														
Sub-Total	9 N-W 9 N-W 316+32 - 317+15 312+53 - 314+50														
Sub-Total	10 W-E 10 W-E 310+25 - 315+30 315+10 - 316+30														
Sub-Total	I-70 I-70 I-70 I-70 313+95 - 315+48 322+00 - 326+25 330+25 - 331+70 339+59 - 343+00														
Sub-Total	8 W-N 8 W-N 8 W-N 315+55 - 318+40 318+70 - 320+25 327+30 - 328+40														
Sub-Total	8 N-E & 8 W-N 331+37 - 334+85														
Sub-Total	8 N-W 332+75 - 337+50														
Sub-Total	9 N-W 320+25 - 321+30														
Sub-Total	8 W-N & 8 N-E 340+70 - 341+30														
Sub-Total	I-70 Undistributed Quan.											400			
Sub-Total	I-70 Undistributed Quan.											700			
Sub-Total	I-70 Undistributed Quan.											200			
Sub-Total	I-70 Undistributed Quan.											200			
Sub-Total	10 E-W-A 10 E-W-A 10 E-W-A 10 E-W-A 10 E-W-A 300+00 - 301+50 296+75 - 301+00 301+00 - 304+47 297+75 - 303+90 301+75 - 304+00														
TOTALS					1,888	330	400	400	200	200					

*Handwritten signature*

END PROJECT I-65-3(106)III  
 BEGIN PROJECT I-65-3(III)II2  
 STA 390+78.80

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(11)77	197	83	



STA 903+44.01 BK.  
 END PROJECT 70-3(57)75  
 STA 290+45.97 AHEAD  
 BEGIN PROJECT 70-3(75)77  
 I-70-77-2306

STA 314+00.00  
 END I-PROJ 70-3(75)77  
 BEGIN I-PROJ 70-3(7)77

STA 351+60  
 END PROJECT I-70-3(7)77  
 LIMIT OF CONST. PROJ. I-65-3(106)II  
 END PROJECT I-70-3(72)77

STA 299+03.40  
 END PROJECT I-65-3(33)109  
 BEGIN PROJECT I-65-3(106)III

\*Construct in Bridge Project  
 I-70-3(69)77 FILE  
 I-70-77-2417

- LEGEND FOR BARRICADES
- Ⓐ BARRICADE - TYPE III
  - Ⓒ PERMANENT BARRICADE - TYPE III
  - Ⓞ CONSTRUCTION IDENTIFICATION SIGN - TYPE A
  - Ⓢ CONSTRUCTION SIGN - TYPE A
  - ⓧ MOVABLE BARRICADE (NOT A PAY ITEM)

Pointed 4"	LFT
Church - Roy St.	99
Harris - Roy St.	99
Union - Roy St.	410
TOTAL	410

### SIGNS FOR CITY STREETS

Scale 1" = 300'

PROJ.	LINE	SHEET	FILE
70-3(7)77	27	83	

SEE STD. SHEET "P" FOR ACCEPTABLE TYPES OF PIPE WITHIN EACH GROUP

# STRUCTURE DATA

\* IF CONTRACTOR ELECTS TO USE METAL PIPE, GAGES SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(71)77	197	84	139

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A" CUYDOS	"B" BORROW CUYDOS	METHOD OF BACKFILL	* GAGE	EXCAVATION	REMARKS	CULV. PIPE EACH SECT.	PLANS ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.								
100	321+28 I-70, 219 RT.	96	STD. MANHOLE TYPE G-4 S.L.F.B.C.C.S. (Ga. B) Class "B" Bedding	12.0		687.63	686.76	1911	A			22.5	CONNECT TO STRUCTURE NOS. 78, 99 & 114	10		
101	322+00 2W-N, 40 RT.	15	STD. INLET TYPE N-12	96		702.16	700.00	22	A				CONNECT TO STRUCTURE NO. 97	10		
102	326+08 8W-N, RT.	12	STD. INLET TYPE D-6 F.B.C.C.S.	2.0		710.51							NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77 L-56'	10		
103	326+00 8W-N	6	F.B.C.P.C.S. PIPE										NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77 L-66'	10		
104	326+25 I-70, 115 RT.	12	STD. CATCH BASIN TYPE E-7 F.B.C.C.S.	7.8		706.41	706.00					5.0	1-90' BEND REQ'D. CONNECT TO 96" STORM SEWER & TO STRUCTURE NO. 105	10		
105	325+95 I-70, RT.	12	STD. INLET TYPE D-6 F.B.C.C.S.	2.0									NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77 L-86'	10		
106	325+75 I-70	6	F.B.C.P.C.S. PIPE										NOT INCLUDED IN THIS PROJ. TO BE CONSTRUCTED IN BRIDGE PROJECT I-70-3(69)77 L-70'	10		
107	327+73 I-70	6	F.B.C.P.C.S. PIPE										NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77 L-190'	10		
108	327+60 I-70, RT.	12	STD. C.B. TYPE D-6 F.B.C.C.S.			702.40							CONNECT TO STR. NO. 113 1-22' 30' BEND REQ'D. NOT INCLUDED IN THIS PROJ. TO BE CONSTRUCTED IN BRIDGE PROJECT I-70-3(69)77 L-108'	10		
109	327+70 I-70, LT.	12	STD. INLET TYPE S-14	2.2		734.74	734.00		A	16			FILE I-70-77-5646 17 CY 'B' BORROW	12		
110	327+83 I-70	12	STD. INLET TYPE T-14	3.0		734.00	733.65		A	16			CONNECT TO STRUCTURE NOS. 109 & 111 & 112 UNDERDRAIN CONSTRUCT IN PROJ. I-70-3(72)77 L-56' 11 CY 'B' BORROW	10		
111	327+75 I-70, RT.	12	STD. INLET TYPE T-14 F.B.C.C.S.	2.6		733.65	705.41		A	16			CONNECT TO STRUCTURE NOS. 110 & 112 CONSTRUCT IN PROJECT I-70-3(72)77-17 CY 'B' BORROW	10		
112	327+40 I-70, 157 RT.	12	STD. CATCH BASIN TYPE E-7	16		705.16	697.40	3	A				CONNECT TO STRUCTURE NOS. 111 & 113	10		
113	327+25 I-70, 157 RT.	24	STD. MANHOLE TYPE A-4	13.0		696.44	696.00					15.0	CONNECT TO STRUCTURE NOS. 108, 112, 114 & 117 NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L-44'	10		
114	327+78 I-70, RT.	96	PIPE S.L.F.B.C.C.S. (Ga. B) Class "B" Bedding	13.0		688.08	687.63	1149	A			25.0	CONNECT TO STRUCTURE NO. 100 & 114A	10		
114A	327+28	96	STD. MANHOLE TYPE G-4	21.0		688.37	688.08					25.0	INCLUDES APPROX. 90' TO BE TUNNELED UNDER MERIDIAN ST. 90' LIN. FT. OF TUNNEL REQ'D. SEE DETAIL ON SHEET NO. 99 TEMPORARY PLUG REQ'D. AT END OF 96" PIPE L-224'	10		
115	328+10 8W-N	6	F.B.C.P.C.S. PIPE										NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77	10		
116	328+70 8W-N	12	STD. CATCH BASIN TYPE E-7	14.0		707.65	697.00					15.0	NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJECT I-70-3(69)77 L-86'	10		
117	327+20 I-70, 135 LT.	24	STD. CATCH BASIN TYPE A-7	14.0		697.24	696.44					15.0	NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BR. PROJ. I-70-3(69)77 CONNECT TO STR. NOS. 113 & 119	10		
118			DELETED										FILE I-70-77-5646 L-290-92 CY 'B' BORROW	10		
119	330+65 8N-W, 73 LT.	24	STD. MANHOLE TYPE A-4	286		699.51	697.24	98	A			13.0	CONNECT TO STRUCTURE NOS. 117 & 120	10		
120	324+25 8E-N, 50 RT.	24	STD. MANHOLE TYPE A-4	460		703.65	699.51	174	A			12.5	CONNECT TO STRUCTURE NOS. 119, 121 & 125 PROVIDE STUBOUT FOR STR. NO. 125	13		
121	324+65 3W-N, RT.	24	STD. CATCH BASIN TYPE E-7	268		704.41	703.88	92	A			5.1	CONNECT TO STRUCTURE NOS. 120 & 122	13		
122	325+90 8W-N, LT.	12	STD. CATCH BASIN TYPE E-7	178		706.41	704.41	35	A			5.6	CONNECT TO STRUCTURE NOS. 121 & 123 PROVIDE STUBOUT FOR STR. NO. 123	13		
123	326+00 8W-N, LT.	12	STD. INLET TYPE S-14	2.0		711.87	706.66		A	16			CONNECT TO STRUCTURE NO. 122 CONSTRUCT IN PROJECT I-70-3(72)77 L-18'-4 CY 'B' BORROW	13		
124	326+00 8W-N, RT.	12	STD. INLET TYPE S-14	1.0		711.00	710.17		A	16			CONSTRUCT IN PROJECT I-70-3(72)77 L-8' 2 CY 'B' BORROW	13		
125	329+25 8E-N, RT.	12	STD. CATCH BASIN TYPE S-14 F.B.C.C.S.	2.0		724.60	704.60		A	16			1-22' 30' BEND REQ'D. 7 CY 'B' BORROW	13		

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A" CUYDOS	"B" BORROW CUYDOS	METHOD OF BACKFILL	* GAGE	EXCAVATION	REMARKS	CULV. PIPE EACH SECT.	PLANS ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.								
126	341+90 8N-E	12	STD. INLET TYPE T-14	2.5		725.00	724.60							CONNECT TO STRUCTURE NOS. 125 & 127 L-20'	13	
127	335+00 8N-W, LT.	12	STD. INLET TYPE S-14	2.0		725.27	725.00							CONSTRUCT IN PROJECT I-70-3(72)77-14 CY 'B' BORROW	13	
128	340+90 8W-N, RT.	12	STD. INLET TYPE S-14 F.B.C.C.S.	2.0		729.00	711.90					16		CONNECT TO STRUCTURE NO. 126 CONSTRUCT IN PROJECT I-70-3(72)77 5 CY 'B' BORROW	13	
129	331+75 8W-N	12	STD. INLET TYPE S-14 F.B.C.C.S.	2.0		724.80	711.90					16		2-22' 30' BENDS REQ'D. L-60'	13	
130			DELETED											CONSTRUCT IN PROJECT I-70-3(72)77	10	
131	330+40 I-70, 285 RT.	15	STD. CATCH BASIN TYPE E-7	72		708.40	706.00					6.0		CONNECT TO STRUCTURE NO. 132	10	
132	330+65 I-70, 207 RT.	96	STD. MANHOLE TYPE G-4 S.L.F.B.C.C.S. (Ga. B) CLASS "B" BEDDING.	40.0		688.74	688.53					23.0		CONNECT TO STR. NO'S. 114, 131, 132A & 148	10	
132A	327+31 328+71 RT.	96	REIN. CONC. PIPE CLASS III IN CLASS "A" BEDDING.	40.0		688.53	688.08					25.0		CONNECT TO STR. NO. 132	10	
133	335+25 8W-N, RT.	18	STD. CATCH BASIN TYPE K-11 F.B.C.C.S.	78		727.40	707.50					21		NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L-150'	10	
134	333+10 I-70, 170 RT.	18	STD. CATCH BASIN TYPE E-7 F.B.C.C.S.	4.0		707.25	698.00					3		2-22' 30' BENDS & 1-30' BEND REQ'D. UNDERDRAIN	10	
135	331+46 I-70	6	F.B.C.P.C.S. PIPE	148		744.50	743.50					18		7-45' BENDS REQ'D. CUT HOLE IN TOP OF 96" STORM SEWER & GROUT IN 18" PIPE. CONNECT TO STRUCTURE NO. 133	10	
136	331+54 I-70, LT.	12	STD. INLET TYPE D-6 F.B.C.C.S.	2.0		739.30	729.41					16		1-22' 30' BEND REQ'D. CONNECT TO STR. NO. 137	10	
137	336+58 8N-E, 46 LT.	12	STD. INLET TYPE F-7	36		729.41	729.05					7		QUANTITIES SHOWN WITH BR. PLANS I-70-77-5648 10 CY 'B' BORROW	10	
138	337+25 8N-E	12	STD. INLET TYPE T-14	52		729.05	728.58					10		CONNECT TO STRUCTURE NOS. 136 & 138	10	
139	337+70 8W-N, 45 RT.	12	STD. INLET TYPE E-7	48		729.41	728.58					9		CONNECT TO STRUCTURE NOS. 137 & 140	10	
140	337+25 8W-N	18	STD. CATCH BASIN TYPE K-11	198		728.33	727.40					67		CONNECT TO STRUCTURE NOS. 133, 138 & 139	10	
141	332+90 I-70	6	F.B.C.P.C.S. PIPE	140		746.30	745.60					18		CONNECT TO UNDERDRAIN IN I-70-3(72)77	10	
142	333+02 I-70	12	STD. INLET TYPE S-14	3.5		746.12	747.80					16		CONNECT TO STRUCTURE NO. 143 AND TO L-66' UNDERDRAIN CONSTRUCT IN PROJECT I-70-3(72)77	10	
143	333+02 I-70	12	STD. INLET TYPE T-14 F.B.C.C.S.	2.0		747.80	709.80					16		2-22' 30' BENDS REQ'D. L-94'	10	
144	334+70 I-70	6	F.B.C.P.C.S. PIPE											CONNECT TO STRUCTURE NO. 142 CONSTRUCT IN PROJECT I-70-3(72)77 15 CY 'B' BORROW	10	
145	334+80 I-70, 92 LT.	12	STD. INLET TYPE D-6 F.B.C.C.S.	2.0		711.33								NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L-200'	10	
146	334+77 I-70, 62 RT.	12	STD. INLET TYPE D-6 F.B.C.C.S.	2.0		708.36								FILE I-70-77-2417 13 CY 'B' BORROW	10	
147	335+08 I-70, 160 LT.	12	STD. CATCH BASIN TYPE E-7	25.0		711.08	708.36							1-45' BEND REQ'D. CONNECT TO STR. NO. 148A NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77	10	
148	335+05 I-70, 115 RT.	96	STD. MANHOLE TYPE G-4 REIN. CONC. PIPE CLASS III IN CLASS "A" BEDDING	28.0		689.19	689.00					25.0		CONNECT TO STRUCTURE NOS. 145 & 148A NOT INCLUDED IN THIS PROJECT. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L-272'	10	
148A														192' OF PIPE WEST OF MANHOLE WITH TEMPORARY SEAL AT WEST END. CONN. TO STR. NOS. 146, 47, 48 & 49	10	

### LEGEND FOR ABBREVIATIONS

F.B.C.C.S./PI-- FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	F.B.C.C.S.A./PI-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
F.B.C.C.A./PI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	F.B.C.C.A.A./PI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT.
F.B.C.C.S.-- FULLY BITUMINOUS COATED CORRUGATED STEEL.	F.B.C.C.S.A.-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
F.B.C.C.A.-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.	F.B.C.C.A.A.-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH.
C.S.-- CORRUGATED STEEL.	C.S.A.-- CORRUGATED STEEL ARCH.
C.A.-- CORRUGATED ALUMINUM ALLOY.	C.A.A.-- CORRUGATED ALUMINUM ARCH.
S.P.S.-- STRUCTURAL PLATE STEEL.	S.P.S.A.-- STRUCTURAL PLATE STEEL ARCH.
F.B.C.P.C.S.-- FULLY BITUMINOUS COATED PERFORATED CORRUGATED STEEL.	I.S.D.-- INDIANAPOLIS SANITARY DISTRICT
S.L.F.B.C.C.S.-- SMOOTH LINED FULLY BITUMINOUS COATED CORRUGATED STEEL.	



SEE STD. SHEET "P" FOR ACCEPTABLE TYPES OF PIPE WITHIN EACH GROUP

# STRUCTURE DATA

\* IF CONTRACTOR ELECTS TO USE METAL PIPE, GAGES SHOWN BELOW ARE TO BE USED.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(71)77	197	85	139

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	"B" BORROW	METHOD OF BACKFILL	STEEL GAGE	EXCAVATION	REMARKS	FT. CULV PIPE @ END SECT	PLANS ON SHEET NO.	
								UP STREAM ELEV.	DOWN STREAM ELEV.									
148	330+65 TO 373+20 RT	96	96	S.L.F.B.C.C.S. (No. 8) CLASS "B" BEDDING	33.5			689.00	668.74		695			25.0	CONNECT TO STRUCTURE NOS. 132 & 148A		10	
149	336+25 I-70, 80' RT	96	L	STD MANHOLE TYPE G-4 REINF. CONC. PIPE CLASS III			28.0	689.37	689.19						L=120' 120 LIN. FT. OF TUNNEL LINER - 132" DIA. NO. 5 GAGE PLATE NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BR. PROJ. I-70-3(69)77. CONNECT TO STR. NOS. 148 & 150 FILE I-70-77-2417		11	
150	339+75 I-70, 80' RT	96	L	STD MANHOLE TYPE G-4			15.0	689.68	689.37					24.5	L=224' GROUP 'M', 120' GROUP 'L', 120 LIN. FT. OF TUNNEL LINER - 132" DIA. NO. 8 GAGE PLATE NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BR. PROJ. I-70-3(69)77. CONNECT TO STR. NOS. 149, 151, 154 & 164 FILE I-70-77-2417		11	
151	339+83 I-70, 120' RT	18	P	STD CATCH BASIN TYPE E-7			12.0	707.40	698.30					15.0	CONNECT TO STRUCTURE NOS. 150 & 156 NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L=36' FILE I-70-77-2417		11	
152				DELETED														11
153				DELETED														11
154	339+20 I-70, 120' LT	24	P	STD CATCH BASIN TYPE E-7			11.5	705.40	697.50					18.5	CONNECT TO STRUCTURE NOS. 150 & 151 NOT INCLUDED IN THIS PROJECT TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 68 CY 'B' BORROW FILE I-70-77-2417 L=200'		11	
155	340+17 I-70	6		F.B.C.P.C.S. PIPE														16
156	340+25 I-70, 64' RT	12		STD INLET TYPE D-6 F.B.C.C.S.			2.0		707.65						CONNECT TO STRUCTURE NO. 151 NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L=76' 2-22' 30' BENDS REQ'D. 12 CY 'B' BORROW		11	
157	339+82 I-70, 64' LT	12		STD INLET TYPE D-6 F.B.C.C.S.			2.0		705.65						CONNECT TO STRUCTURE NO. 154-13 CY 'B' BORROW NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L=84' 2-22' 30' BENDS REQ'D		11	
158	343+00 I-70, LT	12	A	STD INLET TYPE S-14			2.2	736.50	738.18			A	16		CONNECT TO STRUCTURE NO. 159 L=64' CONSTRUCT IN PROJECT I-70-3(72)77-13 CY 'B' BORROW		11	
159	343+00 I-70, E	12	A	STD INLET TYPE T-14			2.5	736.18	737.86			A	16		CONNECT TO STRUCTURE NOS. 158 & 160 L=64' CONSTRUCT IN PROJECT I-70-3(72)77-13 CY 'B' BORROW AND CONNECT TO UNDERDRAIN		11	
160	343+00 I-70, RT	12		STD INLET TYPE T-14 F.B.C.C.S.			2.0	737.86	718.50			A	16		2-22' 30' BENDS REQ'D L=68'		11	
161	346+00 I-70, LT	12	A	STD INLET TYPE S-14			2.2	729.20	728.90			A	16		CONNECT TO STRUCTURE NO. 159 CONSTRUCT IN PROJECT I-70-3(72)77 11 CY 'B' BORROW		11	
162	346+00 I-70, E	12	A	STD INLET TYPE T-14			2.5	728.90	728.60			A	16		CONNECT TO STRUCTURE NO. 167 L=64' CONSTRUCT IN PROJECT I-70-3(72)77-13 CY 'B' BORROW		11	
163	346+00 I-70, E	12		STD INLET TYPE T-14 F.B.C.C.S.			2.0	728.60	724.30			A	16		CONNECT TO STRUCTURE NOS. 161 & 163 L=64' CONSTRUCT IN PROJECT I-70-3(72)77-13 CY 'B' BORROW		11	
164A	339+78 TO 343+26 I-70	90		REINF. CONC. PIPE CLASS III IN CLASS 'A' BEDDING			45.5	690.15	689.68					31.0	CONNECT TO STRUCTURE NO. 162 CONSTRUCT IN PROJECT I-70-3(72)77-4 CY 'B' BORROW CONSTRUCT EAST OF STRUCTURE NO. 150 343 FT. AND TEMPORARILY PLUG EAST END. NOT INCLUDED IN THIS PROJ. TO BE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 L=348 FT. FILE I-70-77-2417		11	
164	346+10 I-70	90		STD MANHOLE TYPE G-2 S.L.F.B.C.C.S. (No. 8) CLASS "B" BEDDING	392		97.0	691.05	690.15		850			35.0	CONNECT TO STRUCTURE NO. 172 AND TO 90" PIPE CONSTRUCTED IN BRIDGE PROJECT I-70-3(69)77		11	
165	349+00 I-70, LT	12	A	STD INLET TYPE S-14			3.0	718.87	718.55			A	16		CONNECT TO STRUCTURE NO. 166 AND TO L=64' UNDERDRAIN. CONSTRUCT IN PROJECT I-70-3(72)77 13 CY 'B' BORROW		11	
166	349+00 I-70, E	12	A	STD INLET TYPE T-14			3.3	718.55	718.27			A	16		CONNECT TO STRUCTURE NOS. 165 & 167 & TO UNDERDRAIN. CONSTRUCT IN PROJECT I-70-3(72)77 L=64' 13 CY 'B' BORROW		11	
167	349+00 I-70, RT	12	A	STD CATCH BASIN TYPE S-14			4.0	718.00	715.78			A	16		CONNECT TO STR. NOS. 166 & 168 & TO UNDERDRAIN 1 90° BEND REQ'D. CONSTRUCT IN PROJ. I-70-3(72)77		11	
168	350+25 I-70, RT	18	A	STD CATCH BASIN TYPE S-14			4.0	718.30	713.60			A	16		CONNECT TO STRUCTURE NOS. 167, 170, 171 & 172 1-18" x 18" x 12" TEE 4 1-18" x 12" REDUCER REQ'D. L=238'		11	
169	350+75 I-70, LT	12	A	STD INLET TYPE S-14			2.5	713.70	711.00			A	16		CONSTRUCT IN PROJECT I-70-3(72)77. CONNECT TO UNDERDRAIN		11	
170	351+25 I-70, RT	12	A	STD CATCH BASIN TYPE S-14			4.0	711.00	710.50			A	16		CONNECT TO STRUCTURE NO. 170 UNDERDRAIN 1-12" x 12" x 6" TEE REQ'D L=142' 28 CY 'B' BORROW CONSTRUCT IN PROJECT I-70-3(72)77		12	
															CONNECT TO STRUCTURE NOS. 168 & 169 UNDERDRAIN 1-18" x 18" x 12" TEE REQ'D L=6' - DRAIN CONSTRUCT IN PROJECT I-70-3(72)77-11 CY 'B' BORROW		12	

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS "A"	"B" BORROW	METHOD OF BACKFILL	STEEL GAGE	EXCAVATION	REMARKS	FT. CULV PIPE @ END SECT	PLANS ON SHEET NO.	
								UP STREAM ELEV.	DOWN STREAM ELEV.									
171	352+25 I-70																	
172	352+61 I-70, 5 RT	90	M	STD MANHOLE TYPE G-4 S.L.F.B.C.C.S. (No. 8) CLASS "B" BEDDING	584		28.5	691.84	691.05					38.5	CONNECT TO STRUCTURE NO. 164 INCLUDES 52' OF 90" PIPE EAST U/S OF MANHOLE TO CONNECT TO PIPE CONSTR. IN BRIDGE PROJ. I-70-3(69)77 FILE I-70-77-2417		12	
171A	356+48 I-70, 52' LT																	
171B	356+48 I-70, 39' RT																	
171C	357+09 I-70, 57' LT																	
171D	357+41 I-70, 39' RT																	
173	352+70 I-70, 12' A	12	A		64													2

**LEGEND FOR ABBREVIATIONS**

F.B.C.C.S./PI-- FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	F.B.C.C.S.A./PI-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
F.B.C.C.A./PI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	F.B.C.C.A.A./PI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT.
F.B.C.C.S.-- FULLY BITUMINOUS COATED CORRUGATED STEEL.	F.B.C.C.S.A.-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
F.B.C.C.A.-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.	F.B.C.C.A.A.-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH.
C.S.-- CORRUGATED STEEL.	C.S.A.-- CORRUGATED STEEL ARCH.
C.A.-- CORRUGATED ALUMINUM ALLOY.	C.A.A.-- CORRUGATED ALUMINUM ALLOY ARCH.
S.P.S.-- STRUCTURAL PLATE STEEL.	S.P.S.A.-- STRUCTURAL PLATE STEEL ARCH.
S.L.F.B.C.C.S.-- SMOOTH LINED FULLY BITUMINOUS COATED CORRUGATED STEEL	I.S.D.-- INDIANAPOLIS SANITARY DISTRICT

Ms.A.T. 1/68

JANUARY, 1965

FOR INFORMATION ONLY

*Handwritten signature*

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
I-70-3(71)77		85	139	

# STRUCTURE DATA ~ INDIANAPOLIS SANITARY DISTRICT STRUCTURES

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3( )77	197	86	99

LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'A'	BORROW	EXCAVATION	GAGES OR THICKNESS		REMARKS	PAGE ON SHEET NO.
						UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM		
2.13 E-W									4.57				Remove Exist M.H. Remove Exist 72" Pipe & Fill Trench With 'B' Borrow From Str. No 600A to Str. No 600B in Bridge Proj. I-70-3(69)77 (#557 C.Y. Req'd)	9
2.05 E-W									.02				Remove Exist Inlet & Seal Exist. Pipe	9
2.32 E-W									.04				Remove Exist Inlet & Seal Exist. Pipe	9
2.42 E-W									.02	3			Remove Top of Exist C.B. Seal Exist. Pipe, & Fill C.B. With 'B' Borrow	9
2.90 E-W	72	Spec Jct. Box & Class IV Pipe With Class 'A' Bedding											Construct on Exist 72" Sewer Seal Exist. Sewer to West. Connect to Str. No 600-B. Const. in Br. Proj. I-70-3(69)77. 440 Lft Class IV Pipe in Class 'A' Bedding. (1891 C.Y. 'B' Borrow Req'd.)	9
2.90 E-W		Spec Jct. Box											Construct on Exist 72" Sewer Seal Exist. Sewer to North. Connect to Str. No 600-A. Const. in Br. Proj. I-70-3(69)77.	9
2.65 W-E									.02	9			Remove Top of Exist M.H. Seal Exist. Pipe, & Fill M.H. With 'B' Borrow	9
2.63 W-E									.02				Remove Exist M.H. & Seal Exist. Pipe	9
2.72 E-W									.04				Remove Exist M.H. & Seal Exist. Pipes	9
2.54 W Lt.		Std. Manhole Type 'E' w/IS.D Casting. No. R-1772-CVH											Seal Exist. Pipe to South Connect to Str. No. 596 C. Const. in Bridge Proj. I-70-3(69)77 0.02 C.Y. Conc. Req'd.	9
2.28 E-W									.02	2			Remove Exist. Inlet, Seal Exist. Pipe, & Fill With 'B' Borrow	9
2.60 E-W									.02	1			Remove Exist Inlet, Seal Exist. Pipe, & Fill With 'B' Borrow	9
2.80 E-W									.02				Remove Exist Inlet, Seal Exist. Pipe	9
2.77 E-W									.04	6			Remove Exist M.H. Seal Exist. Pipe, & Fill With 'B' Borrow	9
2.57 E-W	15	Std. M.H. Type 'C' With IS.D Casting No. R-1772-CVH & RC Pipe Class III or VC Pipe Table III	210	8'	693.25	692.24	.02	106	8'-10'				Construct M.H. on Exist. 15" Sewer & Connect to Str. No. 610-A Class 'B' Bedding Req'd. Seal Exist. Sewer to South.	9
2.60 W Lt.	12	Spec. Inlet Type A w/IS.D Casting No. 2560EI & RC Pipe Class III or VC Pipe Table III	36	3'	697.0	696.6		13	2-4				Class 'B' Bedding Req'd. Connect to Str. No. 612 Spec. Type A Inlet with 13 1/2" inside radius.	9
2.02 W Lt.	18	Std. M.H. Type 'C' With IS.D Casting No. R-1772-CVH, RC or VC Pipe Table III	16	3	692.1	692.0		15	4-6				Class 'B' Bedding Req'd. Connect to Str. No's. 609, 610, 611, 612 & 613	9
2.86 E-W	12	Std. Catch Basin Type A w/IS.D Casting No. 3305 & RC Pipe Class III or VC Pipe Table III	12	2	697.5	697.0	.02	2	2-4				Remove Existing Inlet & Seal Existing Pipe, Class 'B' Bedding Req'd., Connect to Str. No. 610-A	9
2.17 E-W	15	Std. Catch Basin Type A w/IS.D Casting No. 3305 & RC Pipe Class III or VC Pipe Table III	14	3	696.6	696.5		3	2-4				Connect to Str. No. 610-A, Class 'B' Bedding Req'd.	9
2.35 E-W	48	Std. M.H. Type 'E' w/IS.D Casting No. R-1772-CVH & RC Pipe, Class III	36	5	691.19	691.00		49	8-10				Class 'B' Bedding Req'd. Connect to Str. No's. 610-A & 614	9
2.33 E-W		Std. M.H. Type 'E' w/IS.D Casting No. R-1772-CVH			691.0		.36	399	8-10				Construct on Exist. 48" Sewer & Connect to Str. No. 613 & Remove or Break in Exist. 48" Sewer & Fill With 'B' Borrow From Str. No. 614 to 200' East of Str. No. 614	9
2.25 E-W							.06						Remove Exist. C.B. & Seal Exist. Pipes.	9
2.30 E-W							.02						Remove Exist. Inlet & Seal Exist. Pipe	9
2.10 E-W							.05	4					Remove Exist. M.H. Fill With 'B' Borrow, & Seal Exist. Pipes	9
2.33 E-W							.02						Remove Exist. Inlet & Seal Exist. Pipe	9
2.25 E-W	48	Std. M.H. Type 'E' w/IS.D Casting No. R-1772-CVH & Extra Strength RC Pipe Class IV	268	21	693.0	691.9		356	8-10, 200' 10-12, 60'				Class 'B' Bedding Req'd. Connect to Str. No's. 613 & 620	9
2.30 E-W	48	Std. M.H. Type 'E' w/IS.D Casting No. R-1772-CVH & RC Pipe Class III	24	6	693.2	693.0	.36	44	10-12				Construct Over Exist. 48" Sewer, Class 'B' Bedding Req'd. Seal Exist. Sewer to West. & Connect to Str. No. 619	9
2.31 E-W							.02	1					Remove Exist. Inlet & Seal Existing 12" Pipe	9
2.31 E-W							.04						Remove Exist. M.H. & Seal Exist. Pipes	9

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'A'	BORROW	EXCAVATION	GAGES OR THICKNESS		REMARKS	PAGE ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM		
622	316.94	12	R.C. Pipe Class III or VC Pipe Table III	40		3	698.6	697.8	.02	14	2-4		Use Exist Inlet in Place. Seal Exist. Pipe North. Connect to Str. No. 622-A. 14 3/4" Bit Patching Req'd.	9	
622A	316.94	12	R.C. Pipe Class III or VC Pipe Table III	40		3	698.6	697.8	.02	14	2-4		Use Exist. M.H. in Place. Connect to Str. No. 622	9	
623	319.02												Use Exist. Catch Basin in Place. No Changes Req'd.	9	
624	320.03								.04	12			Remove Exist. M.H. Fill With 'B' Borrow, & Seal Exist. Pipe at Manhole & at Ray St.	9	
625	322.02		Std. M.H. Type 'E' w/IS.D Casting. No. R-1772-CVH				695.7		.02				Construct E. Manhole on Exist. 48" Sewer. Connect to Str. No. 645. Connect to Sewer from North. Seal Exist. Sewer South.	10	
626	DELETED														
627	325.68								.02				Remove Exist. Inlet & Seal Exist. Pipe	10	
628	325.56								.06				Remove Exist. C.B. & Seal Exist. Pipes	10	
629	325.07								.02				Remove Exist. Inlet & Seal Exist. Pipe	10	
630	325.18								.06				Remove Exist. C.B. & Seal Exist. Pipes	10	
631	325.07								.02				Remove Exist. Inlet & Seal Exist. Pipes	10	
632	325.21								.02				Remove Exist. Inlet & Seal Exist. Pipes	10	
633	325.27								.06				Remove Exist. C.B. & Seal Exist. Pipes	10	
634	325.35												Remove Exist. M.H. & Exist. 48" Sewer from Str. No. 625 to Str. No. 649.	10	
635	325.46								.02				Remove Exist. Inlet & Seal Exist. Pipe	10	
636	325.41								.06				Remove Exist. C.B. & Seal Exist. Pipes	10	
637	325.66								.02				Remove Exist. Inlet & Seal Exist. Pipes	10	
638	325.70	12	Std. C.B. Type A w/IS.D. Cast. No. 3305 & RC Pipe Class III or VC Pipe Table III	32		3	701.75	701.25		6	2-4		Class 'B' Bedding Req'd. Connect to Str. No. 639 & 644	10	
639	325.70	12	Std. Inlet Type A w/IS.D. Cast. No. 3305 & RC Pipe Class III or VC Pipe Table III	24		3	702.50	702.00		2	2-4		Class 'B' Bedding Req'd. Connect to Str. No's. 638	10	
640	DELETED														
641	325.46	12	Std. Inlet Type A w/IS.D. Cast. No. 3305 & RC Pipe Class III or VC Pipe Table III	24		3	702.5	702.0		3	2-4		Class 'B' Bedding Req'd. Connect to Str. No. 642	10	
642	325.23	12	Std. Catch Basin Type A w/IS.D. Cast. No. 3305 & RC Pipe Class III or VC Pipe Table III	16		3	700.50	699.50		4	2-4		Class 'B' Bedding Req'd. Connect to Str. No's. 641 & 643	10	
643	325.35	48	Std. M.H. Type 'E' w/IS.D Casting No. R-1772-CVH & RC Pipe, Class III	148		4	696.7	695.7		209	8-10		Class 'B' Bedding Req'd. Construct on Exist. 48" Sewer & Connect to Str. No's. 625, 638 & 642	10	
644	322.12								.04	3			Remove Exist. M.H. Seal Exist. Pipes, & Fill With 'B' Borrow	10	
645	322.35								.04	4			Remove Exist. M.H. Seal Exist. Pipe, & Fill With 'B' Borrow	10	
646	321.38												Use Exist. Inlet in Place. No Changes Req'd.	10	
647	323.99												Use Exist. Inlet in Place. No Changes Req'd.	10	

**LEGEND FOR ABBREVIATIONS**

F.B.C.C.SA/PI-- FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.	F.B.C.C.SA/RI-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.
F.B.C.C.AA/PI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.	F.B.C.C.AA/RI-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT.
F.B.C.C.S-- FULLY BITUMINOUS COATED CORRUGATED STEEL.	F.B.C.C.SA-- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.
F.B.C.C.AA-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.	F.B.C.C.AA-- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH.
C.S-- CORRUGATED STEEL.	C.S.A-- CORRUGATED STEEL ARCH.
C.A.A-- CORRUGATED ALUMINUM ALLOY.	C.A.A.A-- CORRUGATED ALUMINUM ALLOY ARCH.
S.P.S-- STRUCTURAL PLATE STEEL.	S.P.S.A-- STRUCTURAL PLATE STEEL ARCH.

NOTE: FLOW LINES SHOWN WITH STRUCTURES ARE FOR OUTLET PIPES.

# STRUCTURE DATA ~ INDIANAPOLIS SANITARY DISTRICT STRUCTURES

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	1-70-3(1)77	197	87	90

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'D'	'B' BORROW	EXCAVATION	GAGES OR THICKNESS		REMARKS	PLANS OR SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM		
325.02	1-70.85 RT.	12	RC Pipe Class IV	7			703.9	702.9			8'-10'			Remove Exist. MH, Fill with 'B' Borrow & Seal Exist. Pipe to South, Seal Exist. Pipe North of 48" Pipe in Ray St.	10
325.22	8W N. 66 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8			702.9	702.1			8'-10'			Use Exist. M.H. in Place, Connect to Str. No. 650 Class 'B' Bedding Req'd. & Seal Exist. Pipe to North. L=120' 20 CY 'B' Borrow 1-70-3(69)77 FILE 1-70-77-5646	10
326.62	8W N. 34 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Pipe to be Jacked Under Meridian St. Connect to Str. No's 649, 651, 652 & 655 L=80' 22 CY 'B' Borrow 1-70-3(69)77 FILE 1-70-77-5646	10
326.75	8W N. 30 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Use Exist. C.B. in Place, Connect Exist. Pipe to Str. No. 650	10
326.88	8W N. 58 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Use Exist. C.B. in Place, Connect Exist. Pipe to Str. No. 650	10
327.42	8W N. 4' LI.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Remove Exist. Inlet, Seal Exist. Pipe, & Fill with 'B' Borrow 1-70-77-5646 1 CY 'B' Borrow	10
327.58	8W N. 16 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Remove Exist. Inlet, Seal Exist. Pipe, & Fill with 'B' Borrow 1-70-77-5646 1 CY 'B' Borrow	10
327.98	8W N. 13 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	9			700.0	699.1			10'-12'			Class 'B' Bedding Req'd. Connect to Str. No's 650, 656, & 674 L=316' 1-70-3(69)77 FILE 1-70-77-5646 192 CY 'B' Borrow	10
327.98	8W N. 84 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	9			700.4	700.16			10'-12'			Class 'B' Bedding Req'd. Connect to Str. No's 655 & 657 L=84' 1-70-3(69)77 FILE 1-70-77-2417 31 CY 'B' Borrow	10
330.62	8W N. 102 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	10			701.40	700.45			10'-12'			Class 'B' Bedding Req'd. Construct Over Exist. Sewer & Connect to Str. No's 656, 658 & Seal Exist. Pipe to North. L=264' Reconnect Sewer Service. File 1-70-77-2417 90 Cys 'B' Borrow Class 'B' Bedding Req'd. Connect to Str. No's 657 & 659 L=213' 1-70-3(69)77 FILE 1-70-77-2417 97 CY 'B' Borrow	10
332.03	8W N. 100 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	10			702.10	701.40			8'-10'			Class 'B' Bedding Req'd. Connect to Str. No's 658 & 660 L=204' 1-70-3(69)77 FILE 1-70-77-2417 76 Cys 'B' Borrow	10
333.36	8W N. 108 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8			702.80	702.10			8'-10'			Class 'B' Bedding Req'd. Construct on Exist. 15" Sewer & Connect to Str. No's 653 & 661 L=45' 1-70-3(69)77 FILE 1-70-77-2417 23 Cys 'B' Borrow Class 'B' Bedding Req'd. Remove Exist. M.H. Connect Exist. Storm Drainage to New M.H. Connect to Str. No's 660, 662 & Seal Exist. 15" Sewer to West Bituminous Patching Req'd. 63.4 CYS L=115' 1-70-3(69)77 FILE 1-70-77-2417 93 Cys 'B' Borrow Class 'B' Bedding Req'd. Connect to Str. No. 661, & Seal Exist. 12" Sewer to North L=48' 1-70-3(69)77 FILE 1-70-77-2417 92 Cys 'B' Borrow	10
333.48	8W N. 150 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8			703.00	702.80			8'-10'			Class 'B' Bedding Req'd. Construct on Exist. 15" Sewer & Connect to Str. No's 653 & 661 L=45' 1-70-3(69)77 FILE 1-70-77-2417 23 Cys 'B' Borrow Class 'B' Bedding Req'd. Remove Exist. M.H. Connect Exist. Storm Drainage to New M.H. Connect to Str. No's 660, 662 & Seal Exist. 15" Sewer to West Bituminous Patching Req'd. 63.4 CYS L=115' 1-70-3(69)77 FILE 1-70-77-2417 93 Cys 'B' Borrow Class 'B' Bedding Req'd. Connect to Str. No. 661, & Seal Exist. 12" Sewer to North L=48' 1-70-3(69)77 FILE 1-70-77-2417 92 Cys 'B' Borrow	10
334.11	8W N. 121 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	7			704.20	703.25			6'-8" 57" 8'-10" 58"			Class 'B' Bedding Req'd. Construct on Exist. 15" Sewer & Connect to Str. No's 653 & 661 L=45' 1-70-3(69)77 FILE 1-70-77-2417 23 Cys 'B' Borrow Class 'B' Bedding Req'd. Remove Exist. M.H. Connect Exist. Storm Drainage to New M.H. Connect to Str. No's 660, 662 & Seal Exist. 15" Sewer to West Bituminous Patching Req'd. 63.4 CYS L=115' 1-70-3(69)77 FILE 1-70-77-2417 93 Cys 'B' Borrow Class 'B' Bedding Req'd. Connect to Str. No. 661, & Seal Exist. 12" Sewer to North L=48' 1-70-3(69)77 FILE 1-70-77-2417 92 Cys 'B' Borrow	10
334.50	8W N. 120 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	6			704.60	704.20			6'-8"			Class 'B' Bedding Req'd. Construct on Exist. 15" Sewer & Connect to Str. No's 653 & 661 L=45' 1-70-3(69)77 FILE 1-70-77-2417 23 Cys 'B' Borrow Class 'B' Bedding Req'd. Remove Exist. M.H. Connect Exist. Storm Drainage to New M.H. Connect to Str. No's 660, 662 & Seal Exist. 15" Sewer to West Bituminous Patching Req'd. 63.4 CYS L=115' 1-70-3(69)77 FILE 1-70-77-2417 93 Cys 'B' Borrow Class 'B' Bedding Req'd. Connect to Str. No. 661, & Seal Exist. 12" Sewer to North L=48' 1-70-3(69)77 FILE 1-70-77-2417 92 Cys 'B' Borrow	10
330.50	8W N. 68 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.04					0.04					Remove Exist. M.H. Seal Exist. Pipes, & Fill with 'B' Borrow	10
327.28	8W N. 40 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.02					0.02					Remove Exist. Inlet, Seal Exist. Pipes, & Fill with 'B' Borrow	10
327.36	8W N. 18 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.03					0.03					Remove Exist. C.B. Seal Exist. Pipes, & Fill with 'B' Borrow	10
327.55	8W N. 55 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.02					0.02					Remove Exist. Inlet, Seal Exist. Pipes, & Fill with 'B' Borrow	10
327.89	8W N. 58 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.03					0.03					Remove Exist. Catch Basin, Seal Exist. Pipes, & Fill with 'B' Borrow	10
327.73	8W N. 36 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.06					0.06					Remove Exist. M.H. Seal Exist. Pipes, & Fill with 'B' Borrow. Seal Exist. Connection to Ray St. 48" Sewer.	10
334.35	8W N. 58 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.02					0.02					Remove Exist. Inlet, Seal Exist. Pipes, & Fill with 'B' Borrow	10
334.41	8W N. 90 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.03					0.03					Remove Exist. Catch Basin, Seal Exist. Pipes, & Fill with 'B' Borrow	10
333.98	8W N. 65 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.05					0.05					Remove Exist. M.H. Seal Exist. Pipes, & Fill with 'B' Borrow	10
334.44	8W N. 80 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.02					0.02					Remove Exist. Catch Basin, Seal Exist. Pipes, & Fill with 'B' Borrow	10
334.56	8W N. 47 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	0.02					0.02					Remove Exist. Catch Basin, Seal Exist. Pipes, & Fill with 'B' Borrow	10
326.95	1-70.75 LI.	18	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8			699.7	698.7			8'-10'			Class 'B' Bedding Req'd. Connect to Str. No's 655 & 675 L=120' 1-70-3(69)77 FILE 1-70-77-5646 66 Cys 'B' Borrow Use Exist. M.H. in Place, & Connect to Str. No. 674 1-70-3(69)77 FILE 1-70-77-5646	10
326.95	1-70.97 LI.	18	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8			699.7	698.7			8'-10'			Class 'B' Bedding Req'd. Connect to Str. No's 655 & 675 L=120' 1-70-3(69)77 FILE 1-70-77-5646 66 Cys 'B' Borrow Use Exist. M.H. in Place, & Connect to Str. No. 674 1-70-3(69)77 FILE 1-70-77-5646	10
327.50	8W N. 42 RT.	12	Std. M.H. Type 'C' with I.S.D. Casting No. R-1772 CVH & V.C. Pipe Table III	8							8'-10'			Use Exist. C.B. in Place & Connect Exist. Pipe to Str. No. 650	10

**LEGEND FOR ABBREVIATIONS.**

F.B.C.C.S./P.I. --- FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT. F.B.C.C.A.A./P.I. --- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT. F.B.C.C.S. --- FULLY BITUMINOUS COATED CORRUGATED STEEL. F.B.C.C.A.A. --- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY. C.S. --- CORRUGATED STEEL. C.A.A. --- CORRUGATED ALUMINUM ALLOY. S.P.S. --- STRUCTURAL PLATE STEEL.	F.B.C.C.S.A./P.I. --- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT. F.B.C.C.A.A./P.I. --- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT. F.B.C.C.S.A. --- FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH. F.B.C.C.A.A. --- FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH. C.S.A. --- CORRUGATED STEEL ARCH. C.A.A. --- CORRUGATED ALUMINUM ALLOY ARCH. S.P.S.A. --- STRUCTURAL PLATE STEEL ARCH.
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NOTE: FLOW LINES SHOWN WITH STRUCTURES ARE FOR OUTLET PIPE.

# STRUCTURE DATA - INDIANAPOLIS SANITARY DISTRICT STRUCTURES

FEDERAL ROAD DISTRICT NO. 5 STATE INDC. PROJECT NO. I-70-3(7)77 FISCAL YEAR 197 SHEET NO. 88 TOTAL SHEETS 139

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONCRETE CLASS 'A'	B BORROW	EXCAVATION	GAGES OR THICKNESS		REMARKS	PLANS ON SHEET NO.	
							UP STREAM ELEV.	DOWN STREAM ELEV.				STEEL	ALUMINUM			
702	334.08 BE-N 74' Lt.	12	Std Inlet Type 'A' w/ I.S.D. Casting No. 3305 & R.C. or V.C. Pipe Class III	2		2	707.2	707.0						Class 'B' Bedding Req'd. Connect to Str. No. 703. 24' of 12" and 4' C.Y. 'B' Borrow Req'd. Construct in Br. Proj. I-70-3(69)77 FILE I-70-77-2417	10	
703	333.90 BE-N 95' Lt.	12	Std Catch Basin Type 'A' w/ I.S.D. Casting No. 3305 & R.C. or V.C. Pipe Class III	2		2	706.75	706.6						Class 'B' Bedding Req'd. Connect to Str. Nos. 702 & 704. 10' of 12" and 2' C.Y. 'B' Borrow Req'd. Construct in Br. Proj. I-70-3(69)77 FILE I-70-77-2417	10	
704	334.08 BE-N 93' Lt.	48	Std M.H. Type 'E' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III	5		5	701.4	700.9						Class 'B' Bedding Req'd. Construct Over Exist. 48" Sewer & Connect to Str. Nos. 692 & 703. 136' of 48" and 426' C.Y. 'B' Borrow Req'd. Construct in Br. Proj. I-70-3(69)77 FILE I-70-77-2417 Use Exist. M.H. in Place. No Changes Req'd.	10	
705	338.82 I-70.35' Rt.															//
706	339.69 I-70.123' Rt.								0.44			10		Use Exist. Manhole in Place. Connect to Str. No. 711 Seal. Exist. Sewer East (Construct in Bridge Project)	//	
707	339.08 I-70.203' Rt.													Use Exist. Inlet in Place. No Changes Req'd.	//	
708	339.49 I-70.223' Rt.													Use Exist. M.H. in Place. No Changes Req'd.	//	
709	339.90 I-70.188' Rt.													Use Exist. Inlet in Place. No Changes Req'd.	//	
710	DELETED														//	
711	342.41 I-70.166' Rt.	24	Std M.H. Type 'C' w/ I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III	13		13	707.6	704.0			154	8'-10.9" & 10'-12.9" (12'-14.6" & 14'-16.150")		Class 'B' Bedding Req'd. Connect to Str. Nos. 706 & 712 (Construct in Bridge Project)	//	
712	346.16 I-70.128' Rt.	24	Use Exist. M.H. in Place. R.C. Pipe Class III			16	710.2	707.6	0.25		210	10'-12.60" & 12'-14.170" 14'-16.145"		Class 'B' Bedding Req'd. Connect to Str. No. 711 Seal. Exist. Pipes North and West. Reconnect Sewer Service Use Exist. M.H. in Place. & Connect to Str. No. 714	//	
713	338.73 I-70.200' Lt.															//
714	338.90 I-70.187' Lt.	18	Std M.H. Type 'C' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III	4		4	704.6	704.0			10	4'-6"		Connect to Str. Nos. 713 & 719. 90 SY Bit Patching Req'd.	//	
715	342.28 I-70.169' Lt.								0.02					Remove Exist. Inlet & Seal Exist. Pipe	//	
716	342.17 I-70.171' Lt.								0.04					Remove Exist. M.H. & Seal Exist. Pipes	//	
717	342.55 I-70.175' Lt.								0.02					Remove Exist. C.B. & Seal Exist. Pipe	//	
718	342.62 I-70.177' Lt.								0.04					Remove Exist. M.H. & Seal Exist. Pipes	//	
719	342.41 I-70.180' Lt.	18	Std M.H. Type 'C' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III or V.C. Pipe Table III	10		10	704.7	706.6	0.02		159	4'-6.130" & 6'-8.70" 8'-10.90" & 10'-12.61"		Class 'B' Bedding Req'd. Construct over Exist. 12" Sewer. Connect to Str. Nos. 714 & 722 Seal. Exist. Pipe South.	//	
720	342.41 I-70.90' Lt.								0.04					Remove Exist. M.H. & Seal Exist. Pipe	//	
721	346.15 I-70.143' Lt.													Use Exist. M.H. in Place. No Changes Req'd.	//	
722	346.15 I-70.135' Lt.	18	Std M.H. Type 'C' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III or V.C. Pipe Table III	300		14	711.6	707.1	0.02		171	12'-14"		Class 'B' Bedding Req'd. Construct over Exist. 15" Sewer. Connect to Str. Nos. 722A & 726 Seal. Exist. Pipe South.	//	
723	346.00 I-70.115' Rt.								0.02					Remove Exist. C.B. & Seal Exist. Pipe.	//	
724	345.91 I-70.115' Rt.								0.04					Remove Exist. M.H. & Seal Exist. Pipe.	//	
725	346.30 I-70.110' Rt.								0.02					Remove Exist. C.B. & Seal Exist. Pipe	//	
726	348.02 I-70.110' Lt.	15	Std M.H. Type 'C' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III or V.C. Pipe Table III	189		15	714.9	712.6			76	14'-16"		Class 'B' Bedding Req'd. & Connect to Str. Nos. 722 & 727.	//	
727	349.90 I-70.112' Lt.	15	Std M.H. Type 'C' with I.S.D. Casting No. R-1772-C.V.H. & R.C. Pipe Class III or V.C. Pipe Table III	186		15	717.1	714.9	0.02		74	14'-16"		Class 'B' Bedding Req'd. Construct over Exist. 12" Sewer & Connect to Str. No. 726. Seal. 15" Pipe South.	//	
728	349.73 I-70.93' Lt.								0.02					Remove Exist. C.B. & Seal Exist. Pipe.	//	
729	349.77 I-70.91' Lt.								0.04					Remove Exist. Inlet & Seal Exist. Pipe.	//	
730	349.90 I-70.92' Lt.								0.08					Remove Exist. M.H. & Seal Exist. Pipe.	//	
731	350.09 I-70.90' Lt.															//
732	350.03 I-70.90' Lt.															//
733	15.00 EAST ST.	24	Special Junction Box													//
734	349.92 I-70.115' Lt.	24	Special Junction Box													//
735	13.17 NEW JERSEY ST.	24	Manhole Type 'C'													//
736	15.15 NEW JERSEY ST.	24	Manhole Type 'C'													//
737	15.12 NEW JERSEY ST.	12														//
738	15.00 NEW JERSEY ST.	12	Manhole Type 'C'													//
739	15.12 NEW JERSEY ST.	12														//
740	15 SOUTH of MORRIS ST.	24	Manhole Type 'C'													//
741	NEW JERSEY MORRIS STS.															//
727A	349.80 I-70.116' Lt.	12	Std. Catch Basin Type 'A' w/ I.S.D. Casting 3305 & V.C. Pipe Table III			10	725.5	725.0			4	2'-4"		Connect to Str. Nos. 727 & 727B		//
727B	350.00 I-70.120' Lt.	12	Std Inlet Type 'A' w/ I.S.D. Casting No. 3305 & V.C. Pipe Table III			20	726.2	725.75			5	2'-4"		Connect to Str. No. 727A		//
954	368+25 I-70.5B 73' Rt.															//
955	371+21 I-70EB 44' Lt.															//
956	368+53 I-65NB 83' Lt.	10	Std. Manhole Type 'C' w/ I.S.D. Cast. No. R-1772-C.V.H. & V.C. Pipe			42	722.4	721.93			12	10'-12"		Remove Existing Manhole & Existing Pipe to West Remove Existing Manhole & Existing Pipe to West Remove Existing Pipe to West Connect to Str. No. 957 2-House Connections Req'd.		//
957	368+56 I-65NB 128' Lt.	12	Std. Manhole Type 'C' w/ I.S.D. Cast. No. R-1772-C.V.H. & V.C. Pipe			140	721.45	720.72			44	10'-12"		Construct Over Existing Sewer Connect to Str. Nos. 956 & 958		//
958	369+94 I-65NB 113' Lt.	12	Std. Manhole Type 'C' w/ I.S.D. Cast. No. R-1772-C.V.H. & V.C. Pipe			268	720.12	716.64			254	10'-12"				//
971	371+07 I-65NB 223' Lt.		Std. Manhole Type 'D' w/ I.S.D. Cast. No. R-1772-C.V.H.													//

STRUCTURE NUMBER	LOCATION	SIZE INCHES	DESCRIPTION	LENGTH FEET	SKEW	COVER	FLOW LINE		CONC. CLASS 'A'	B BORROW	EXCAVATION	CLASS OF BEDDING		REMARKS	PLANS ON SHEET NO.
							UP STREAM ELEV.	DOWN STREAM ELEV.				A	B		
731	350.09 I-70.90' Lt.													Remove Exist. Inlet & Seal Exist. Pipe	//
732	350.03 I-70.90' Lt.							0.02						Remove Exist. C.B. & Seal Exist. Pipe	//
733	15.00 EAST ST.	24	Special Junction Box											Not Included in This Proj. Const. in Br. Proj. I-70-3(69)77 360' of 24" Pipe Req'd. and 217' C.Y. 'B' Borrow	12
734	349.92 I-70.115' Lt.	24	Special Junction Box											Not Included in This Proj. Const. in Br. Proj. I-70-3(69)77 440' of 24" Pipe Req'd. and 217' C.Y. 'B' Borrow	12
735	13.17 NEW JERSEY ST.	24	Manhole Type 'C'											Not Included in This Proj. Const. in Br. Proj. I-70-3(69)77	12
736	15.15 NEW JERSEY ST.	24	Manhole Type 'C'											Not included in This Proj. Const. in Br. Proj. I-70-3(69)77 354' of 24" Pipe Req'd.	12
737	15.12 NEW JERSEY ST.	12												Not Included in This Proj. Const. in Br. Proj. I-70-3(69)77 Use Exist. C.B. & 16' of 12" Pipe Req'd.	12
738	15.00 NEW JERSEY ST.	12	Manhole Type 'C'											Not included in This Proj. Const. in Br. Proj. I-70-3(69)77 180' of 12" Pipe Req'd.	12
739	15.12 NEW JERSEY ST.	12												Not included in This Proj. Const. in Br. Proj. I-70-3(69)77 Use Exist. Manhole in Place	12
740	15 SOUTH of MORRIS ST.	24	Manhole Type 'C'											Not included in This Proj. Const. in Br. Proj. I-70-3(69)77 280' of 12" Pipe Req'd.	12
741	NEW JERSEY MORRIS STS.													Not included in This Proj. Const. in Br. Proj. I-70-3(69)77 Use Exist. Manhole in Place	12

**LEGEND FOR ABBREVIATIONS**

F.B.C.C.S./P.I. - FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT.  
F.B.C.A.A./P.I. - FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT.  
F.B.C.C.S. - FULLY BITUMINOUS COATED CORRUGATED STEEL.  
F.B.C.C.A.A. - FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY.  
C.S. - CORRUGATED STEEL.  
C.A.A. - CORRUGATED ALUMINUM ALLOY.  
S.P.S. - STRUCTURAL PLATE STEEL.

F.B.C.C.S.A./P.I. - FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT.  
F.B.C.C.A.A./P.I. - FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH WITH PAVED INVERT.  
F.B.C.C.S.A. - FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH.  
F.B.C.C.A.A. - FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY ARCH.  
C.S.A. - CORRUGATED STEEL ARCH.  
C.A.A.A. - CORRUGATED ALUMINUM ALLOY ARCH.  
S.P.S.A. - STRUCTURAL PLATE STEEL ARCH.



# ESTIMATE OF QUANTITIES (CON'T.) STRUCTURE SUMMARY --- STORM DRAINAGE

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	IND.	I-70-3(7)77	197	90	139

KIND	SIZE	CIRCULAR PIPE: LINEAL FEET												
		4"	6"	8"	10"	12"	15"	18"	24"	30"	36"	90"	96"	
GAGE	STEEL		18					16				8	8	
GAGE STRUCT.	TOP & SIDES													
PLATES	BOTTOM													
GROUP A														
GROUP L						176		198						
GROUP M								460						
GROUP P						52	172	554						
GROUP W or S	5L FBCCS 8" Bedding											564		
GROUP														
REINFORCED CONC.	CLASS III WITH CLASS 'A' BEDDING													
REINFORCED CONC.	CLASS III													
EXTRA STRENGTH REINF. CONC.	HEAVY DUTY REINF. CONC.													
VITRIFIED CLAY CULVERT	TABLET	500	500	500										
CORR. STEEL														
FULLY BITUM. COATED CORR. STEEL								90						
SMOOTH LINED FULLY BITUMINOUS COATED CORRUGATED STEEL (CLASS 'B' BEDDING)											392			
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT DRAINTILE CLASS STANDARD FULLY BITUMINOUS COATED PERFORATED CORR. STEEL		200	100	100										

\* STRUTTED  
\* UNDISTRIBUTED QUANTITY

## STRUCTURE SUMMARY (CON'T.)

PIPE ARCHES: LINEAL FEET

KIND	MIN AREA SQ. FT. *	PIPE ARCHES: LINEAL FEET																			
		STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	
GAGE STRUCT.	TOP & SIDES																				
PLATES	BOTTOM																				
GAGE																					
GROUP G-																					
GROUP G-																					
GROUP G-																					
GROUP H-																					
GROUP H-																					
GROUP H-																					
CORR. STEEL PIPE ARCH																					
STRUCT. PLATE STEEL PIPE ARCH																					
FULLY BITUM. COATED CORR. STEEL PIPE ARCH																					
FULLY BITUM. COATED CORR. STEEL PIPE ARCH WITH PAVED INVERT.																					
REINF. ELLIPTICAL CONCRETE.																					

(\*) SPAN AND RISE WHEN OTHER THAN GROUP "G" OR GROUP "H" IS SPECIFIED.

PIPE: GROUP "K" FOR UNDERDRAINS	6"	LN. FT.
PIPE: FULLY BIT. COATED NON PERFORATED CORR. STEEL (18 GAGE) FOR UNDERDRAINS	6"	LN. FT.
AGGREGATE FOR UNDERDRAINS		CYS

AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CASTINGS ADJUSTED TO GRADE	REINF. CONCRETE SPRING BOXES
EACH	EACH

ITEM	UNIT	QUANTITY
CONCRETE CLASS "A" IN STRUCTURES	CYS	1,205
REINFORCING STEEL FOR STRUCTURES	LB	138,373
CONCRETE CLASS	CYS	
CONCRETE CLASS	CYS	
FURNISHING EQUIPMENT FOR DRIVING PILES	L.S.	
TIMBER PILES, FURNISHED (TREATED)	LFT	14,875
TIMBER PILES, DRIVEN (TREATED)	LFT	14,875

CASTINGS FURNISHED AND ADJUSTED TO GRADE		
TYPE	"	EACH
TYPE	"	EACH

INLETS				CATCH BASINS	
TYPE	EACH	TYPE	EACH	TYPE	EACH
E-7	1	T-14	1	E-7	5
F-7	1			K-11	2

INLETS USING CASTING IN PLACE		CATCH BASINS USING CASTING IN PLACE	
TYPE	EACH	TYPE	EACH

MANHOLES		PIPE CATCH BASINS		RECONSTRUCTED	
TYPE	EACH	SIZE	EACH		LN. FT.
A-4	2			MANHOLE	
G-4	2			CATCH BASIN	
				INLET	

CULVERT PIPE END SECTION			
SIZE	EACH	SIZE	EACH

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3-21-71

# ESTIMATE OF QUANTITIES (CON'T.)

## STRUCTURE SUMMARY --- INDIANAPOLIS SANITARY DISTRICT

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	I-70-3(71)77	197	91	139

KIND	SIZE	CLASS "B" BEDDING														CIRCULAR PIPE LINEAL FEET													
		4"	6"	8"	10"	12"	15"	18"	24"	48"	0'-2"	2'-4"	4'-6"	6'-8"	8'-10"	10'-12"	12'-14"	14'-16"	0'-2"	2'-4"	4'-6"	6'-8"	8'-10"	10'-12"	12'-14"	14'-16"			
GAGE STRUCT. PLATES STEEL	STEEL																												
GAGE STRUCT. PLATES STEEL	TOP & SIDES																												
GAGE STRUCT. PLATES STEEL	BOTTOM																												
GROUP																													
GROUP																													
GROUP																													
GROUP																													
GROUP																													
TABLE III VITRIFIED CLAY																													
CLASS III REINFORCED CONC																													
CLASS III REINFORCED CONC																													
OR VITRIFIED CLAY TABLE III																													
REINFORCED CONCRETE																													
EXTRA STRENGTH REINFORCED CONC.																													
HEAVY DUTY REINFORCED CONC.																													
VITRIFIED CLAY CULVERT																													
CORR. STEEL																													
FULLY BITUM. COATED CORR. STEEL																													
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT																													
DRAIN TILE																													
FULLY BITUMINOUS COATED PERFORATED CORR. STEEL																													
EXTRA STRENGTH REINFORCED CONCRETE CLASS IV																													
JACKED REINFORCED CONCRETE CLASS III																													

\* STRUTTED  
 (C) "CLASS" AND "TABLE" DESIGNATIONS REFER TO A.A.S.H.O. SPECIFICATIONS

### STRUCTURE SUMMARY (CON'T.)

KIND	MIN AREA SQ. FT. *	PIPE ARCHES: LINEAL FEET																					
		STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	STEEL	
GAGE STRUCT. PLATES STEEL	STEEL																						
GAGE STRUCT. PLATES STEEL	TOP & SIDES																						
GAGE STRUCT. PLATES STEEL	BOTTOM																						
GROUP G-																							
GROUP G-																							
GROUP G-																							
GROUP H-																							
GROUP H-																							
GROUP H-																							
CORR. STEEL PIPE ARCH																							
STRUCT. PLATE STEEL PIPE ARCH																							
FULLY BITUM COATED CORR. STEEL PIPE ARCH																							
FULLY BITUM COATED CORR. STEEL PIPE ARCH WITH PAVED INVERT.																							
REINF. ELLIPTICAL CONCRETE.																							

(\*) "SPAN" AND "RISE" WHEN OTHER THAN GROUP "G" OR GROUP "H" IS SPECIFIED.

MISCELLANEOUS ROADWAY ITEMS		
6" BORROW	501	CYS.
SEWER REMOVAL 0-5'	110	LFT.
SEWER REMOVAL 5'-10'	212	LFT.
TYPE "P" COMPACTED AGGREGATE BASE (#53)	12	TON
BITUMINOUS BASE	2	TON
BITUMINOUS SURFACE	1	TON
BITUMINOUS MATERIAL FOR PRIME COAT	0.1	TON
BITUMINOUS MIXTURE FOR PATCHING	3	TON

SALVAGE & REMOVE I.S.D. CASTINGS		
EXISTING HOUSE CONNECTION CONNECTED TO NEW SEWER	37	EACH
	2	EACH

ITEM	UNIT	QUANTITY
CONCRETE CLASS "A" IN STRUCTURES	CYS	2.0
REINFORCING STEEL FOR STRUCTURES	LB	
CONCRETE CLASS "F" FOR STRUCTURES	CYS	
CONCRETE CLASS "F" FOR INTEGRAL CURB WALK	CYS	

INLETS			
TYPE	EACH	TYPE	EACH
A-*	3		

CATCH BASINS			
TYPE	EACH	TYPE	EACH
A-*	4		

MANHOLES / W/ I.S.D. CASTING #R-1772 C.V.H.	
TYPE	EACH
C	4

PIPE CATCH BASINS	
SIZE	EACH

RECONSTRUCTED	
MANHOLE / CATCH BASIN / INLET	LN. FT.

AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CASTINGS ADJUSTED TO GRADE		
EACH		

CASTINGS FURNISHED AND ADJUSTED TO GRADE			
TYPE	" "	EACH	EACH

CULVERT PIPE END SECTION			
SIZE	EACH	SIZE	EACH

\* I.S.D. CASTING NO. 3305  
 \* I.S.D. CASTING NO. 2560 E1