

ROAD CONTRACT NO. R-8518

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REVISIONS		
SHEET NO.	DATE	REVISED

R/W PLANS FOR THIS PROJECT INCLUDE
R/W REQUIRED FOR BRIDGE PROJECT
STRUCTURE NOS. 1,2,3,

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70-3 (57)75	1970	1	65

DESIGN DATA	
A.D.T. (1962)	30,900 V.P.D.
A.D.T. (1990) PROJECTED	68,200 V.P.D.
D.H.V. 1970	6,820 V.P.H.
DIRECTIONAL DISTRIBUTION	58%
TRUCKS 5% D.H.V.	17% A.D.T.
DESIGN SPEED	50 M.P.H.
ACCESS CONTROL	FULL

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

**PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
I PROJECT NO. 70-3(57)75 CONST.**

BEGINNING AT A POINT APPROXIMATELY 1144 FT. NORTH AND 73 FT. EAST OF THE SOUTH WEST CORNER OF SECTION 8 T15N.R3E. AND EXTENDING IN A EASTERLY DIRECTION 5655.07 FT. TO A POINT APPROXIMATELY 68 FT. EAST OF THE CENTERLINE OF SOUTH BELMONT AVENUE ALL IN MARION COUNTY INDIANA.

GROSS LENGTH- 1.052 MI.
NET LENGTH- 0.977 MI.

PLAN { LONG- 1" = 30'
 TRANS- 1" = 60'
 } PROFILE { HORIZ- 1" = 80'
 VERT- 1" = 19'

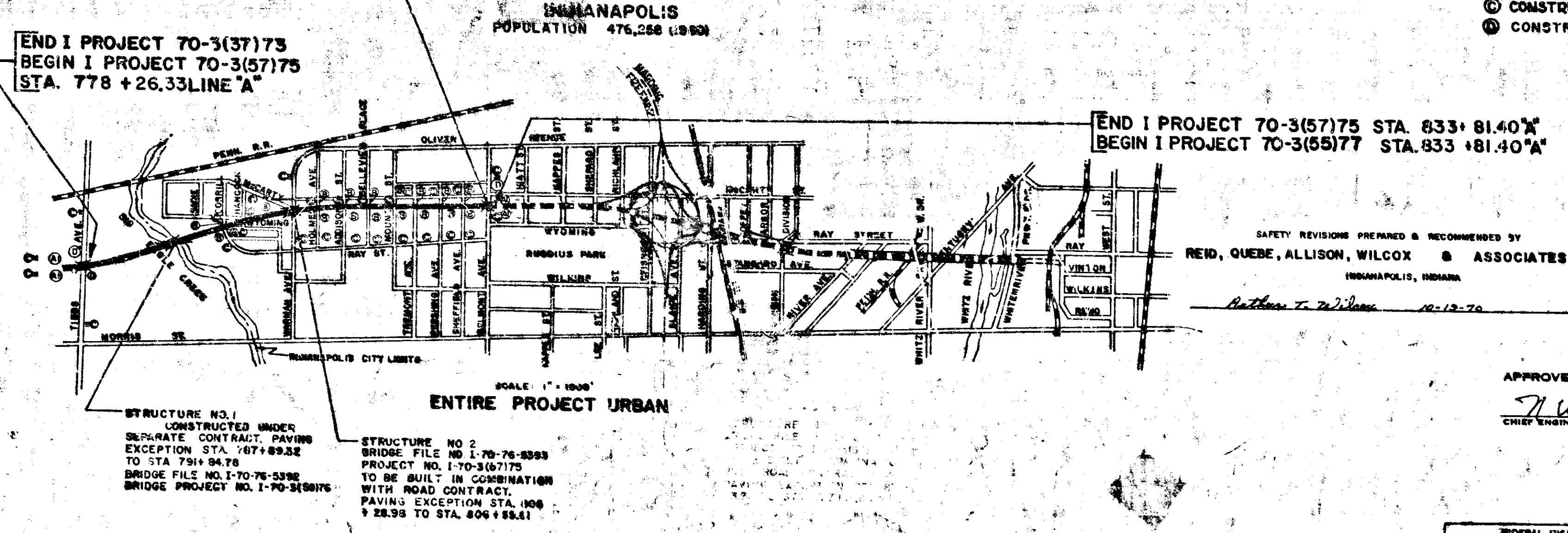
MAX. GRADE 2.00%

APRIL 13, 1967

DATE
REGISTERED PROFESSIONAL ENGINEER
STATE OF INDIANA NO. 3683

**THREE PLANS PREPARED
BY
CHAS. W. COLE & SON**
ENGINEERS
SOUTH BEND, INDIANA

- LEGEND FOR BARRICADES & SIGNS
- ⓐ PERMANENT BARRICADE TYPE "A"
 - ⓑ BARRICADE - TYPE "B"
 - ⓒ CONSTRUCTION SIGN TYPE "A"
 - ⓓ CONSTRUCTION IDENTIFICATION SIGN

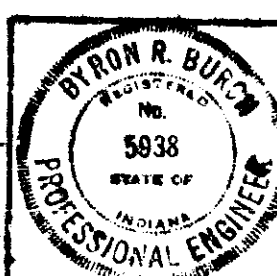


STATE HIGHWAY COMMISSION OF INDIANA
STANDARD SPECIFICATIONS DATED 1969
TO BE USED WITH THESE PLANS.

RECOMMENDED FOR APPROVAL 10-19-70
Stephen R. Nayman
ENGINEER DESIGNER

RECOMMENDED FOR APPROVAL 10-19-70
Harold W. Wilson
ENGINEER DESIGNER

RECOMMENDED FOR APPROVAL 10-22-70
Byron R. Smith
ENGINEER OF ROAD DESIGN



FEDERAL HIGHWAY ADMINISTRATION
DEPARTMENT OF TRANSPORTATION

APPROVED _____
DATE _____

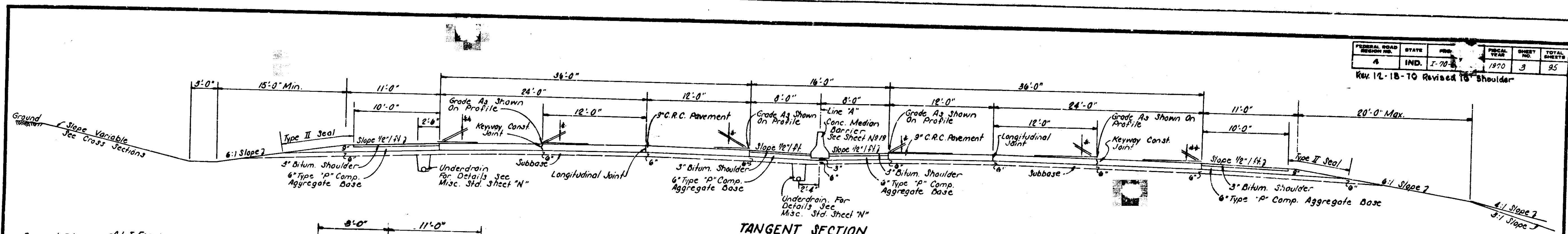
DIVISION ENGINEER _____

ROAD FILE: _____



FEDERAL ROAD DISTRICT NO.	STATE	PROJ.	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-3	3	95

Rev. 12-18-70 Revised 15" Shoulder

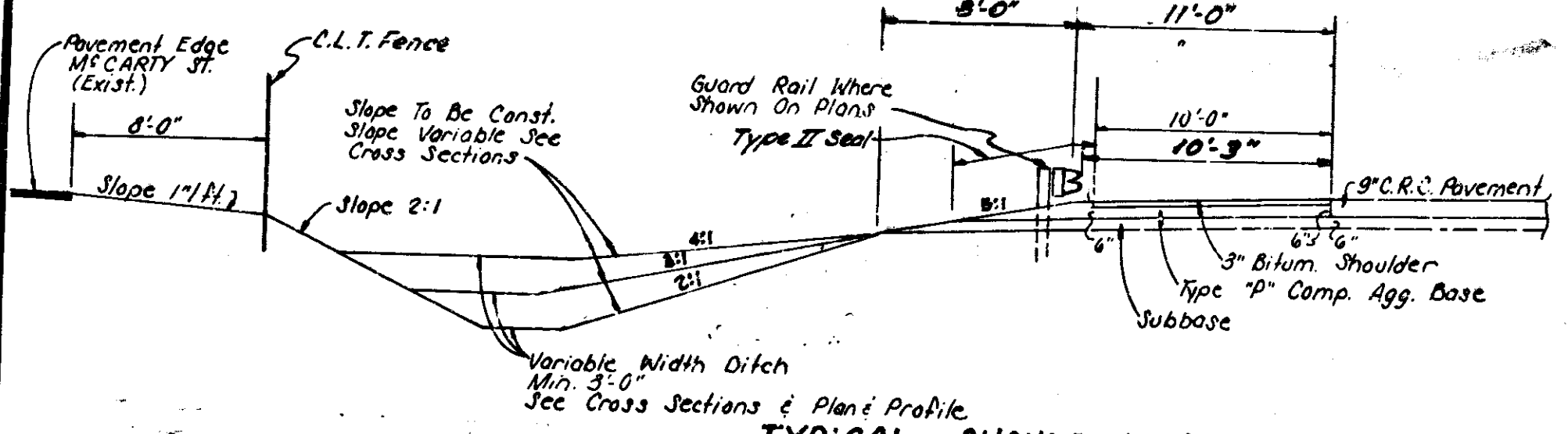


TANGENT SECTION

STA. 784+30.30 "A" TO STA. 795+83.30 "A" (# 1 1/8" Crown, # 1 7/8" Tilt On Outer 12")
 STA. 814+30.00 "A" TO STA. 831+85.00 "A" (# 2 1/8" Crown, # 3" Tilt On Outer 12")
 STA. 831+85.00 "A" TO STA. 833+81.40 "A" (# 1 1/8" Crown, # 1 7/8" Tilt On Outer 12")

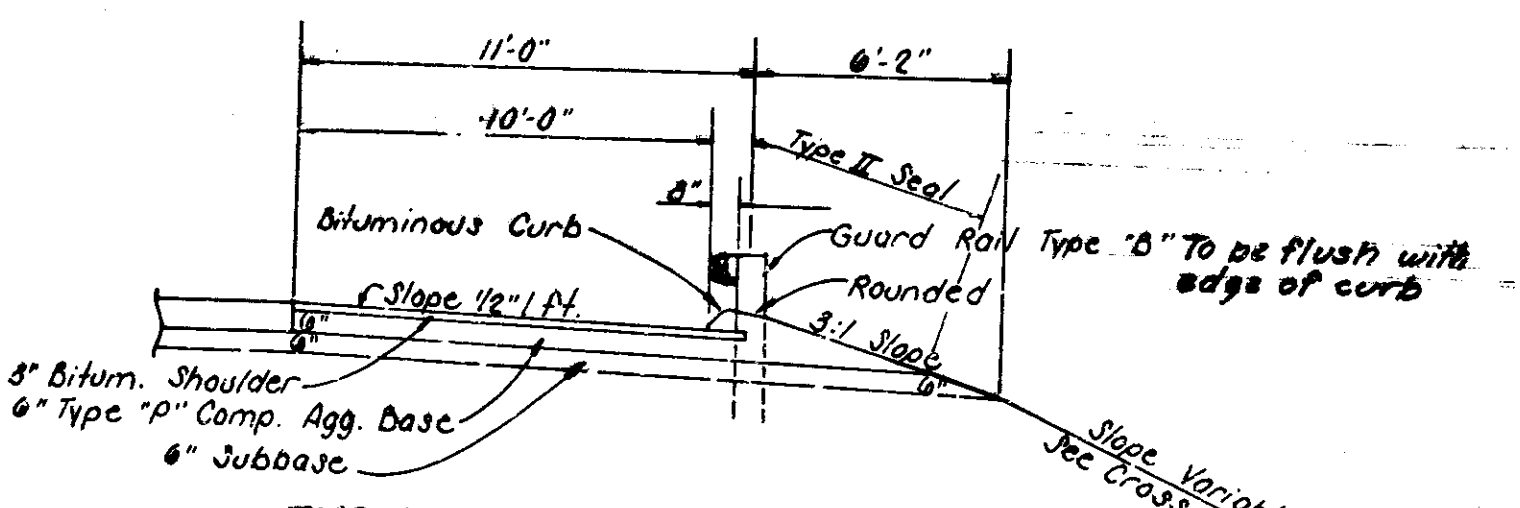
NOTE: FOR SUPERELEVATION AND CROWN TRANSITIONS SEE SHEET N° 24

NOTE: BRIDGE PAVING EXCEPTIONS:
 EAGLE CREEK - STA. 787+83.32 "A" TO STA. 791+84.78 "A"
 WARMAN AVE. - STA. 805+20.90 "A" TO STA. 808+59.01 "A"
 BELMONT AVE. - STA. 832+52.40 "A" TO STA. 833+81.40 "A"



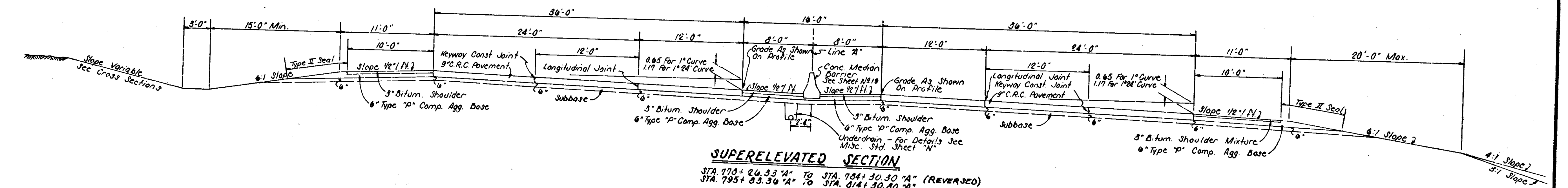
TYPICAL SHOULDER SECTION

STA. 806+53.61 "A" LT. TO STA. 819+50 "A" LT.



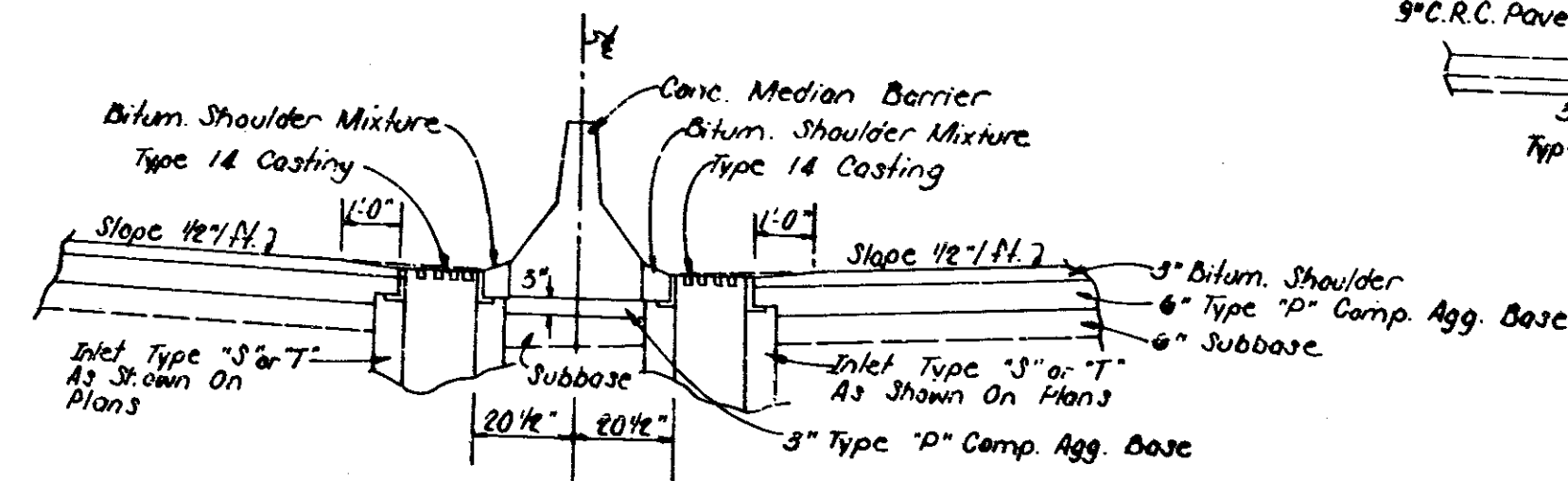
TYPICAL SHOULDER SECTION

STA. 778+26.33 "A" TO STA. 787+89.32 "A"
 SCALE: 1/4" = 1'-0"



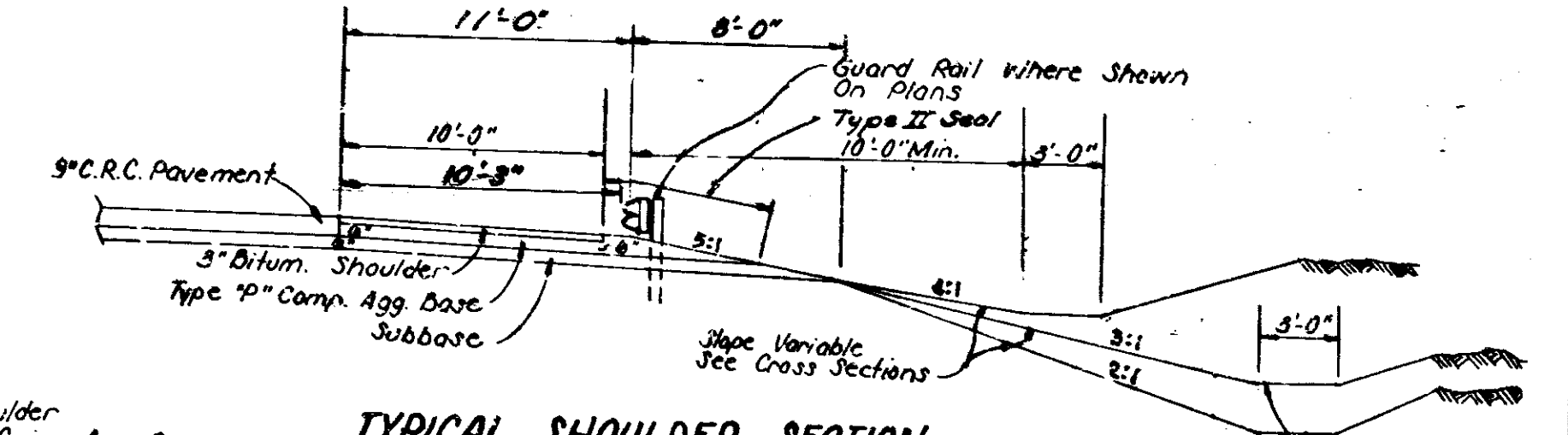
SUPERELEVATED SECTION

STA. 778+26.33 "A" TO STA. 784+30.30 "A" (REVERSED)
 STA. 795+83.30 "A" TO STA. 814+30.00 "A"



TYPICAL CROSS SECTION THROUGH MEDIAN BARRIER & DRAINAGE INLETS

NOTE: TOP OF CASTING TO BE 3/4" BELOW MEDIAN EDGE OF PAVEMENT UNLESS OTHERWISE SHOWN.
 SCALE: 3/8" = 1'-0"



TYPICAL SHOULDER SECTION

STA. 791+84.78 "A" TO STA. 805+20.90 "A" RT.
 STA. 819+50 "A" TO STA. 832+52.40 "A" LT.

TYPICAL CROSS SECTIONS

SCALE: 3/16" = 1'-0" EXCEPT AS NOTED

RECOMMENDED FOR APPROVAL 10-27-70

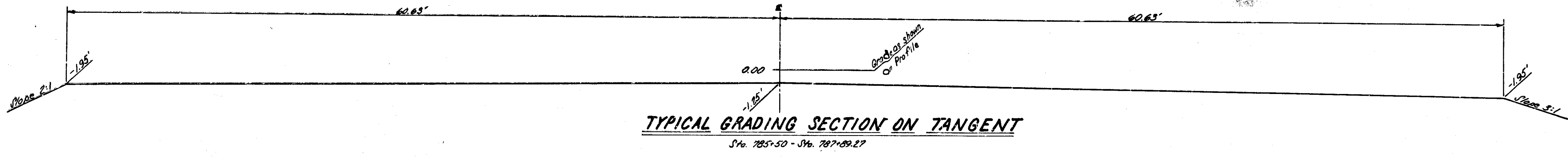
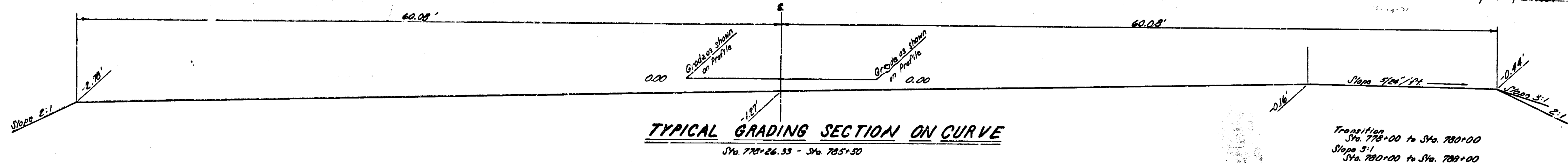
Robert R. Burch
 PROFESSIONAL ENGINEER



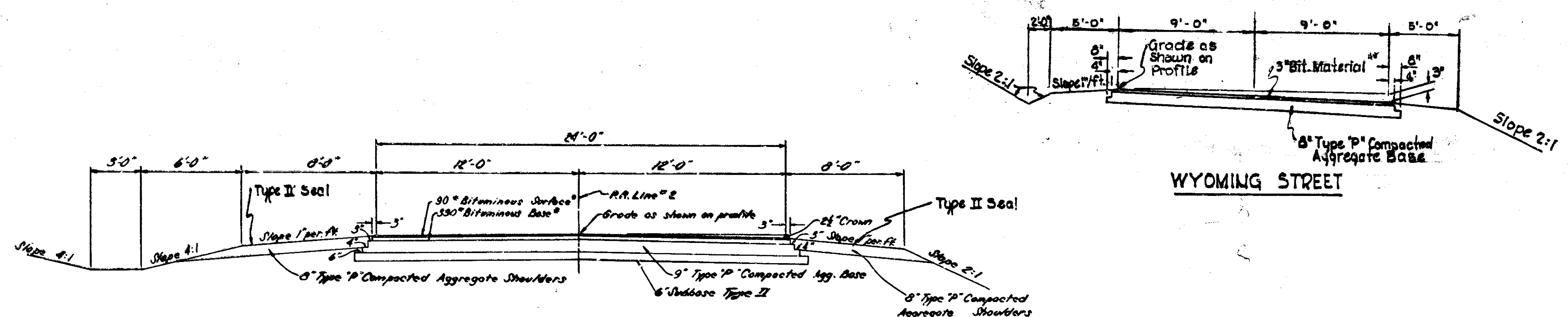
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
I-70-3		3	95	

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F703(97)75	1970	4	95

Rev. 10-18-71 Added Wyoming Street



NOTE: GRADING SECTIONS SHOWN ABOVE COMPLETED ON PREVIOUS CONTRACT



MCCARTY STREET RELOCATION (P.R.#2)

ADT 1964	ADT 1967	ADT 1975	ADT 1980	D.H.K. 1975	ADT 1980	ADT 1985
954	1168	1454	1670	204	9	20

- 1. 90% Bituminous Section Composed of Either
 - 1. 90% Syd. of H.A.C. Surface Type B on 330% Syd. of H.A.C. Base
 - 2. 90% Syd. of Hot AE Surface Type III on 330% Syd. of Hot AE Base

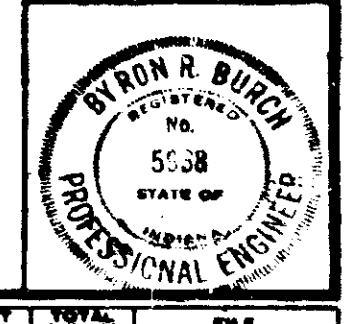
30"	H.A.C.	I
2 1/2"	H.A.C.	
30"	H.A.C.	II
2 1/2"	H.A.C.	

TYPICAL CROSS SECTIONS

SCALE: 1/4" = 1'-0"

RECOMMENDED FOR APPROVAL 10-22-70

Byron R. Birch



PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
F703		4	95	

GENERAL NOTES

Standard Pavement Section E-II-JR, Revised 11-17-66 As Shown on Sheet No. 2 To Be Used on This Project.
 Standard 10' Ramp Section, Revised 3-10-67 As Shown on Sheet No. 3 To Be Used on the Interchange on This Project.
 Typical Cross Sections As Shown on Sheet Nos. 4-7, To Be Used on This Project.
 Indiana State Highway Commission Standard Specifications Dated 1962 To Be Used With These Plans.
 Standards Under Dates As Listed in Index on Title Sheet To Be Used on This Project.
 Grade Lines as Shown on Profile Represents Top of Finished Surface of Median Edge of Pavement.
 The Contractor Will be Required to Accept Subbase Plan Quantities For The Entire Contract As Shown on the Estimate of Quantities.
 All Ditches of 12" and Over Shall be Soded Except Where Ditch is in Rock Cut or Where Paved Side Ditch is to be Constructed.
 All Earth Shoulders, Cut and Fill Slopes Shall be Plain or Mulched Seeded Except Where Sodding is Specified.
 Sodding shall be Placed Along Paved Side Ditches Shown on Miscellaneous Standard Sheet 'B'.
 Details of Super-elevation Transitions Are Shown on Sheet Nos. 58-62.
 Quantities for Pipe Culvert Headwalls are Based on Using Standard Headwalls for Retaining Slopes Steeper than 4:1 and Private Entrance Headwalls on 4:1 or Flatter Slopes.
 For Kinds of Pipe Permitted for Each Size and Classification as Shown in Structure Notes See Miscellaneous Standard Sheet 'P'.
 Contraction Joints Shall be Placed at all Manholes Within Pavement Limits.

END I PROJECT 70-3(57)75
BEGIN I PROJECT 70-3(57)75

Contraction Joints Shall be Placed at the Beginning and End of all Radii and at Street and Alley Intersections.
 All Limited Access Right-of-Way (L.A.R/W) to be Fenced with Chain Link Type Fence (C.L.T.F.) as Specified in the Plans.
 The Minimum Grade for Subsurface Drain Shall be 0.20%. Where the Profile Grade is Less than 0.20%. Special Grades for Subsurface Drains Shall be Established by the Engineer.
 Location of Subsurface Drains Shown on Sheet No. 71.
 Table of Quantities for Sodding and Reinforcing Steel Shown on Sheet No. 72.
 Table of Quantities for Beam Guard Rail, Standard Guard Rail and Curb Turnouts Shown on Sheet No. 72.
 Service to be Maintained at all Times on Existing Sewers.
 As an Aid to the Contractor in Separating Structures for Roadway Drainage from those Required by the Indianapolis Sanitary District, the I.S.D. Facilities are Marked and the Str. Nos. are Listed in the Special Provisions.
 All Indianapolis Sanitary District Facility Catch Basins are to be Hooded.
 All Indianapolis Sanitary District Facility V.C. Pipe as shown in Structure Notes Shall be V.C. Culvert Pipe.

LEVEL EQUATION
 B.M. 77, EL. 781.32 Line 'A' Back - EL. 781.47 Line 'A' Ahead.

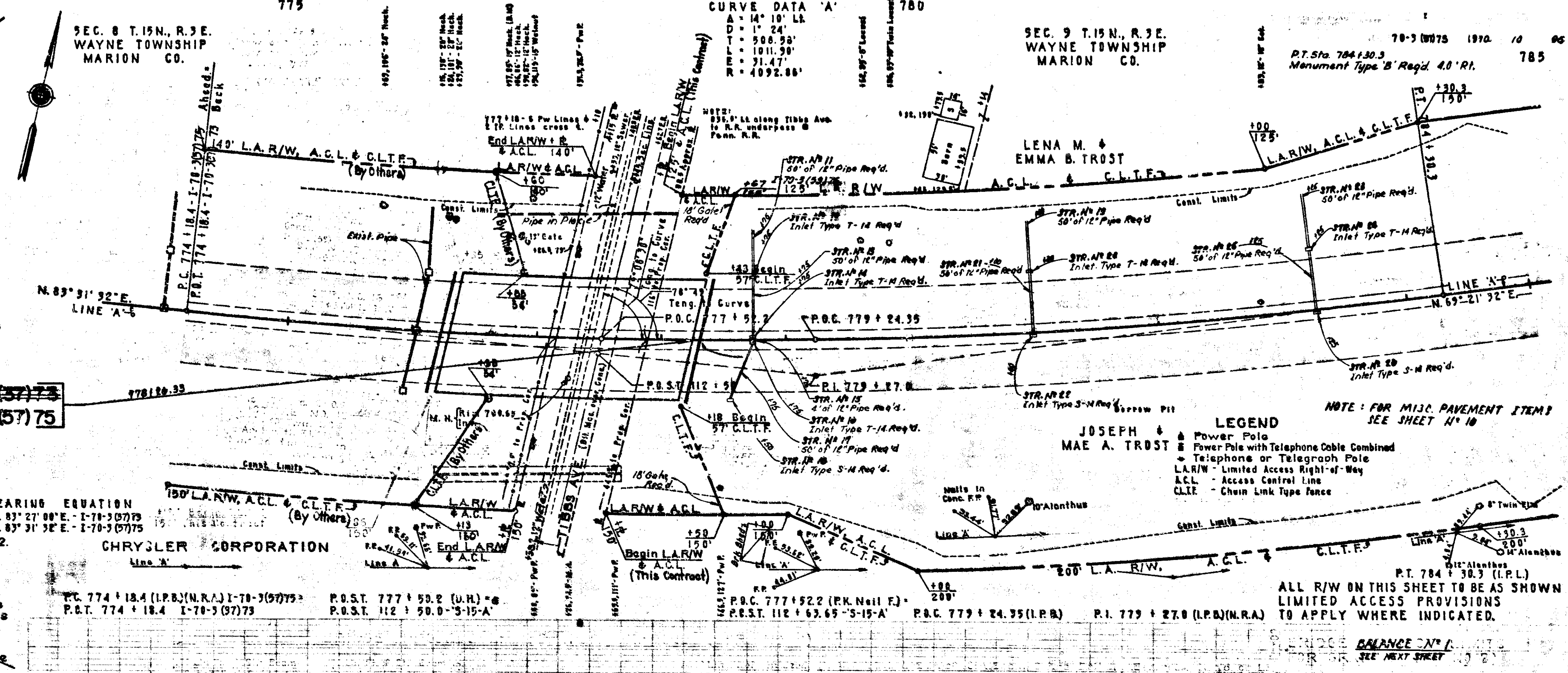
- POWER LINES**
 Indianapolis Power & Light Co.
 23 Monument Circle
 Indianapolis, Indiana
- TELEPHONE LINES & CABLES**
 Indiana Bell Telephone Co.
 240 N. Meridian St.
 Indianapolis, Indiana
- WATER LINES**
 Indianapolis Water Co.
 181 S. Meridian St.
 Indianapolis, Indiana
- GAS LINES**
 Citizens Gas & Coke Utility
 6250 N. Meridian Street
 Indianapolis, Indiana

B.M. 77, EL. 781.47 - Boat Spike in South Side of 16' Hackberry, 66' Lt. Sta. 776 + 75.
 B.M. 76, EL. 691.17 - Boat Spike in South Side of 24' Cottonwood, 1.5' From Ground
 27.5' Lt. Sta. 785 + 21.

SEC. 8 T. 15N., R. 3E.
 WAYNE TOWNSHIP
 MARION CO.

SEC. 9 T. 15N., R. 3E.
 WAYNE TOWNSHIP
 MARION CO.

70-3 (57)75 1970 10 06
 P.T. Sta. 784 + 30.3
 Monument Type 'B' Reqd. 4.0' R.I. 785



LEGEND

- Power Pole
- Power Pole with Telephone Cable Combined
- Telephone or Telegraph Pole
- L.A.R/W - Limited Access Right-of-Way
- A.C.L. - Access Control Line
- C.L.T.F. - Chain Link Type Fence

NOTE: FOR MIS. PAVEMENT ITEMS SEE SHEET NO. 10

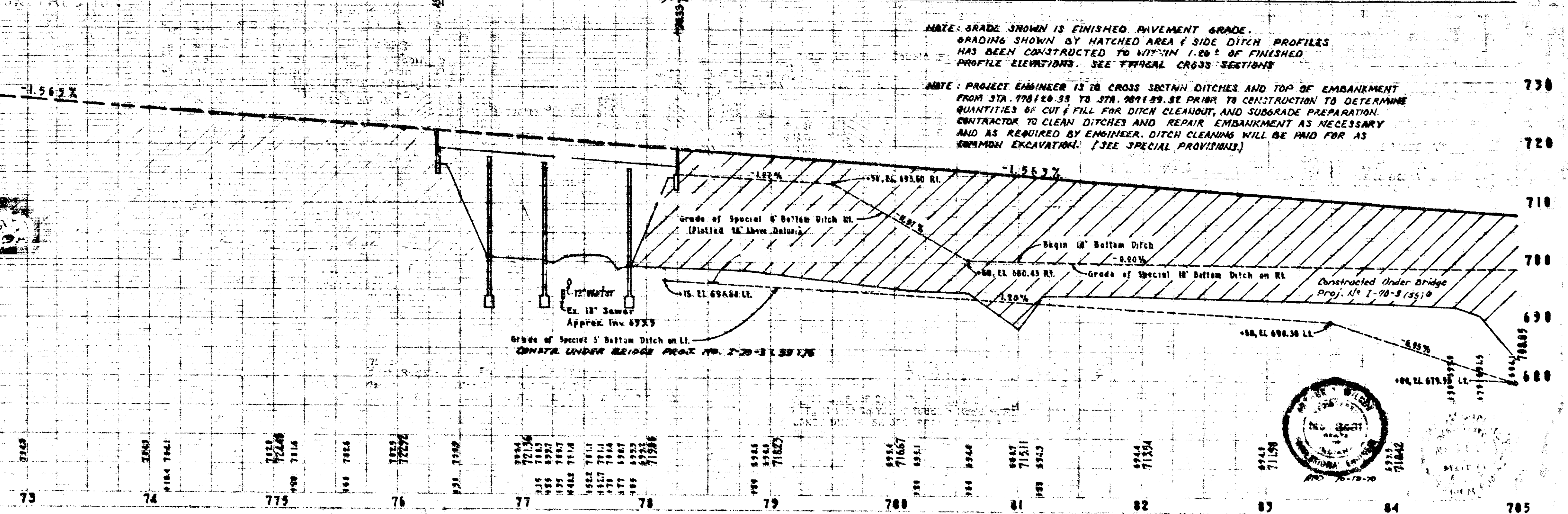
ALL R/W ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.

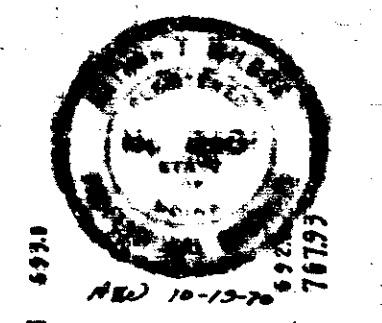
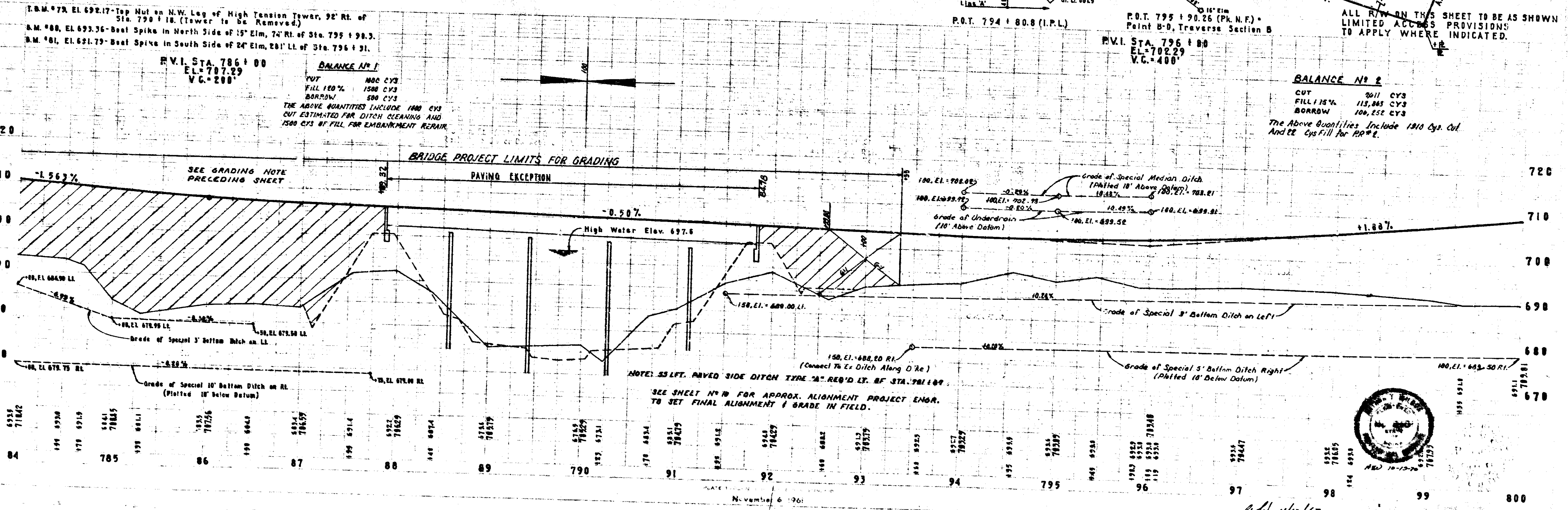
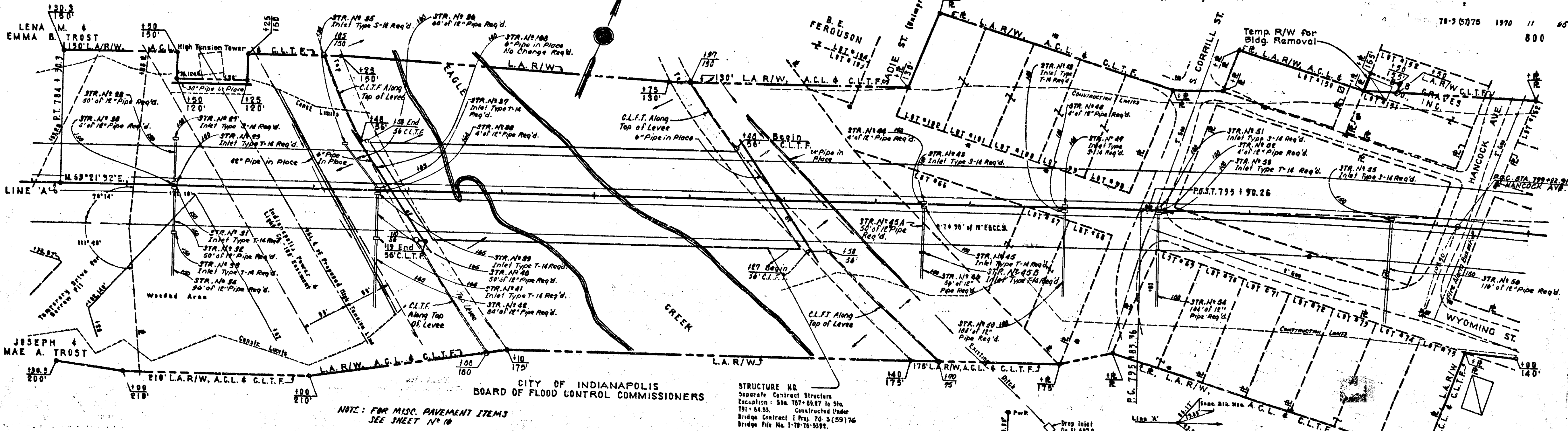
INCIDENTAL CONSTRUCTION

BRIDGE GRADING LIMITS

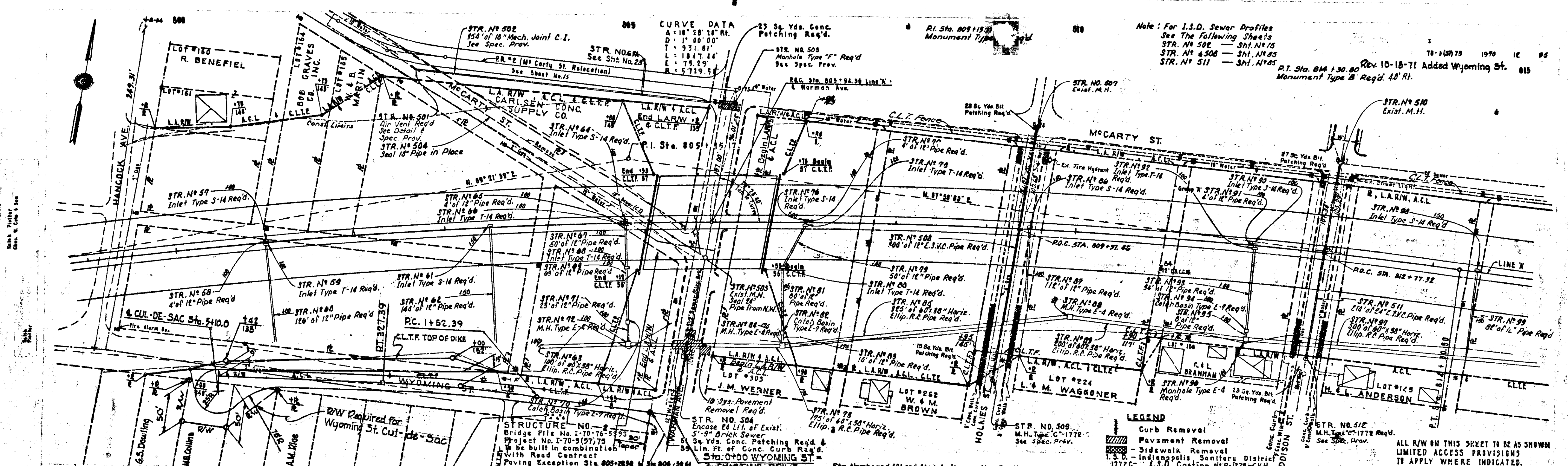
NOTE: GRADE SHOWN IS FINISHED PAVEMENT GRADE. GRADING SHOWN BY HATCHED AREA & SIDE DITCH PROFILES HAS BEEN CONSTRUCTED TO WITHIN 1.00' OF FINISHED PROFILE ELEVATIONS. SEE TYPICAL CROSS SECTIONS.

NOTE: PROJECT ENGINEER IS TO CROSS SECTION DITCHES AND TOP OF EMBANKMENT FROM STA. 781.60.33 TO STA. 801.89.32 PRIOR TO CONSTRUCTION TO DETERMINE QUANTITIES OF CUT & FILL FOR DITCH CLEANOUT AND SUBGRADE PREPARATION. CONTRACTOR TO CLEAN DITCHES AND REPAIR EMBANKMENT AS NECESSARY AND AS REQUIRED BY ENGINEER. DITCH CLEANING WILL BE PAID FOR AS COMMON EXCAVATION. (SEE SPECIAL PROVISIONS.)





4/13/67



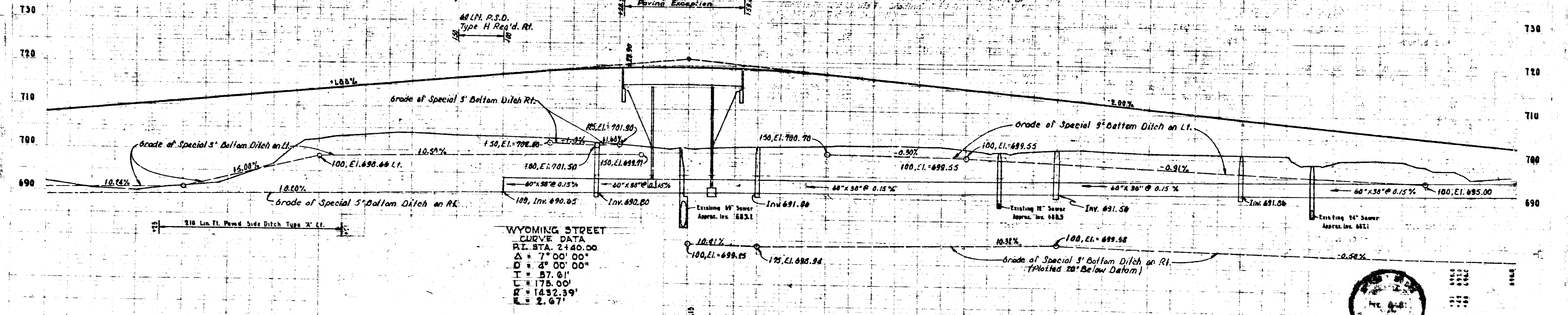
Note: For I.S.D. Sewer Profiles See The Following Sheets
 STR. NO. 502 - SHI. N. 175
 STR. NO. 504 - SHI. N. 175
 STR. NO. 511 - SHI. N. 175
 P.T. Sta. 814 + 30.80 Rev. 10-18-71 Added Wyoming St. 615
 Monument Type B Req'd. 10' RI.

CURVE DATA
 A = 18' 10" 16' RI.
 D = 1' 00' 00"
 T = 931.81'
 L = 1817.44'
 E = 75.29'
 R = 5719.5'

B.M. 99, EL. 704.98 - Best Spike in N. Side of T.P.P. N. of House #225, 33' N.W. of N.E. Cor. of yard fence, 70' S.E. of Point #39 on McCarty St., W. of Werman.
 B.M. 98, EL. 701.84 - Chiselled in E. curb of Werman Ave., 25' S. of curb flare, S.E. cor. Werman Ave. & McCarty St., 6.5' S.W. of cor. T.P.P.
 B.M. 91, EL. 701.77 - Chiselled in N.W. cor. of 2.5' conc. walk to House #81, 7.5' S. of fire hydrant, at S.E. cor. of Holmes Ave. & McCarty St.
 B.M. 90, EL. 692.54 - Set in end of conc. curb @ N.E. cor. of Addison St. & McCarty, 20.5' S.E. of fire hydrant.

LEGEND
 [Symbol] Curb Removal
 [Symbol] Pavement Removal
 [Symbol] Sidewalk Removal
 [Symbol] Indianapolis Sanitary District
 [Symbol] I.S.D. Casting No. R-3772-CVH
 (See Detail on Sheet No. 61)

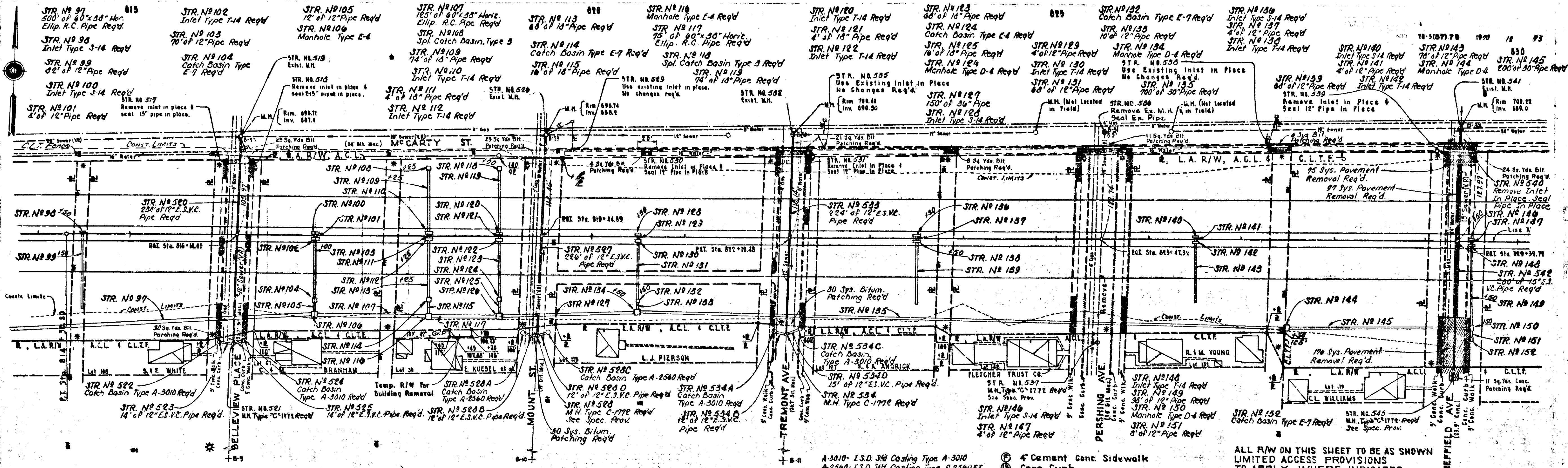
STRUCTURE NO. 2
 Project File No. 1-70-76-5393
 Project No. 1-70-90775
 To be built in combination with Road Contract
 Paving Exception Sta. 805+28.98 to Sta. 806+38.61



WYOMING STREET
 CURVE DATA
 P.I. STA. 2440.00
 Δ = 7° 00' 00"
 D = 4' 00' 00"
 T = 57.61'
 L = 178.00'
 E = 1437.39'
 R = 2.67'

799	800	01	02	03	04	05	06	07	08	09	10	11	12	815
698.50	699.00	699.50	700.00	700.50	701.00	701.50	702.00	702.50	703.00	703.50	704.00	704.50	705.00	705.50

4/13/67



- M.N. #10, EL. 695.60 - Cut in M.N. End of 5' Conc. Sidewalk, S.W. Cor. Bellview Place & M'Carthy St. - T. S.E. of P&R No. 021-561A.
- M.N. #20, EL. 696.69 - Cut in End of Conc. Curb at S.E. Cor. of Mount St. & M'Carthy St., T. N.E. of P&R No. 102-561A.
- M.N. #30, EL. 700.14 - Cut in S.E. End of 5' Conc. Sidewalk, N.W. Cor. of Tremont St. & M'Carthy St., 4.5' N.E. of End of Conc. Curb.
- M.N. #25, EL. 702.20 - Cut in S.E. Cor. Bottom Step at House No. 1304, N.W. Cor. Pershing Ave. & M'Carthy St.
- M.N. #28, EL. 701.95 - Cut in Second Step at S.E. Cor. of N. Walton Market, N.W. Cor. of Sheffield Ave. & M'Carthy St.

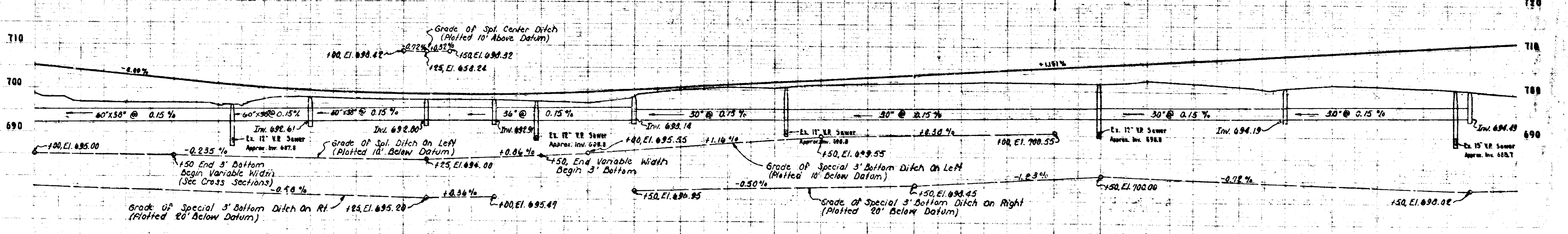
BALANCE NO. 3
SEE PRECEDING SHEET

Grade of Underdrain (2'-4")
(Plotted 30' Above Datum)
+100. EL. 695.72 -150. EL. 695.02
+25. EL. 694.97

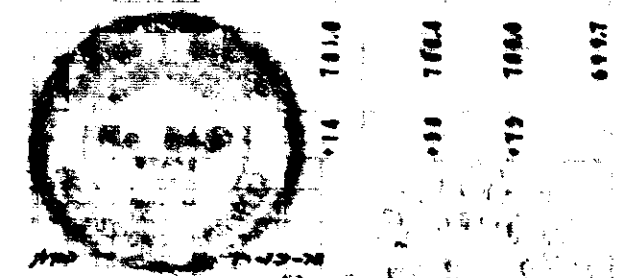
Grade of Spl. Center Ditch
(Plotted 10' Above Datum)
+100. EL. 698.42 -150. EL. 698.32
+25. EL. 698.24

BALANCE NO. 4
SEE NEXT SHEET

NOTE: FOR I.S.D. SEWER PROFILES SEE THE FOLLOWING SHEETS:
STR. NO. 520 SHEET NO. 87
STR. NO. 527 SHEET NO. 88
STR. NO. 528 SHEET NO. 88
STR. NO. 522 SHEET NO. 90

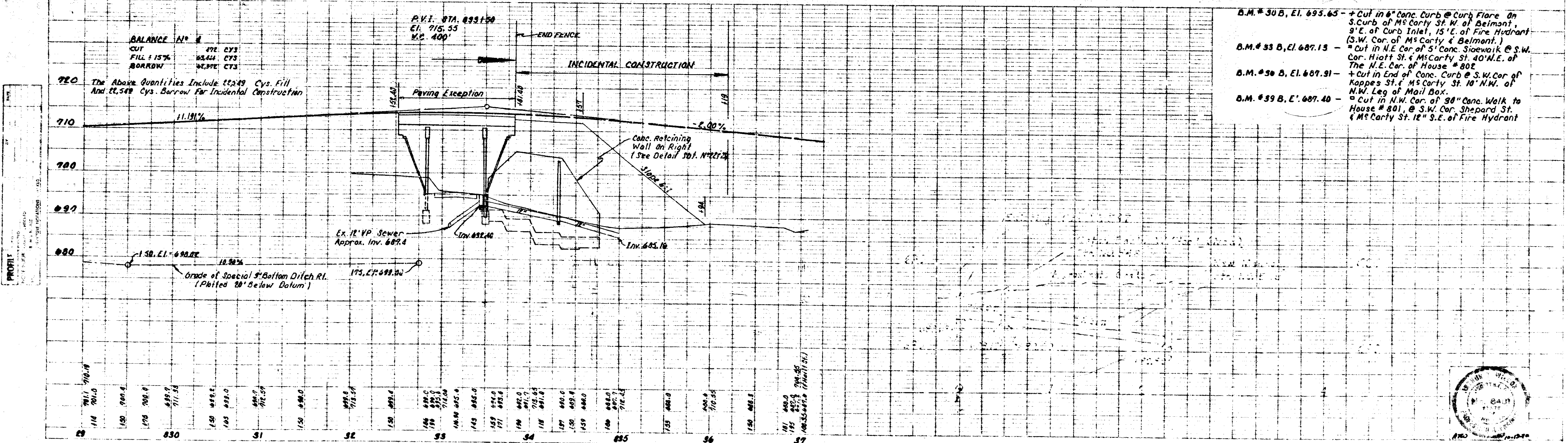
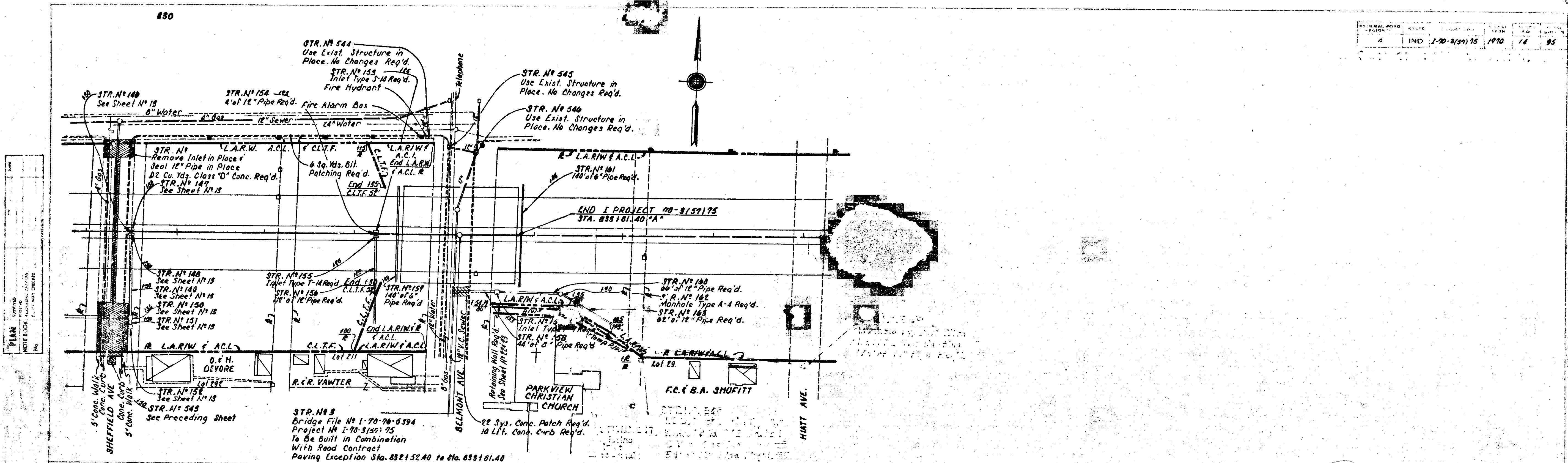


Stationing	Elevation	Notes
100.00	EL. 695.00	150 End 3' Bottom Begin Variable Width (See Cross Sections)
125.00	EL. 694.00	Grade of Spl. Ditch On Left (Plotted 10' Below Datum)
150.00	EL. 695.45	150 End Variable Width Begin 3' Bottom
150.00	EL. 694.45	Grade of Special 3' Bottom Ditch On Left (Plotted 10' Below Datum)
150.00	EL. 695.20	Grade of Special 3' Bottom Ditch On Right (Plotted 20' Below Datum)
150.00	EL. 694.45	Grade of Special 3' Bottom Ditch On Right (Plotted 20' Below Datum)
150.00	EL. 693.02	Grade of Special 3' Bottom Ditch On Right (Plotted 20' Below Datum)

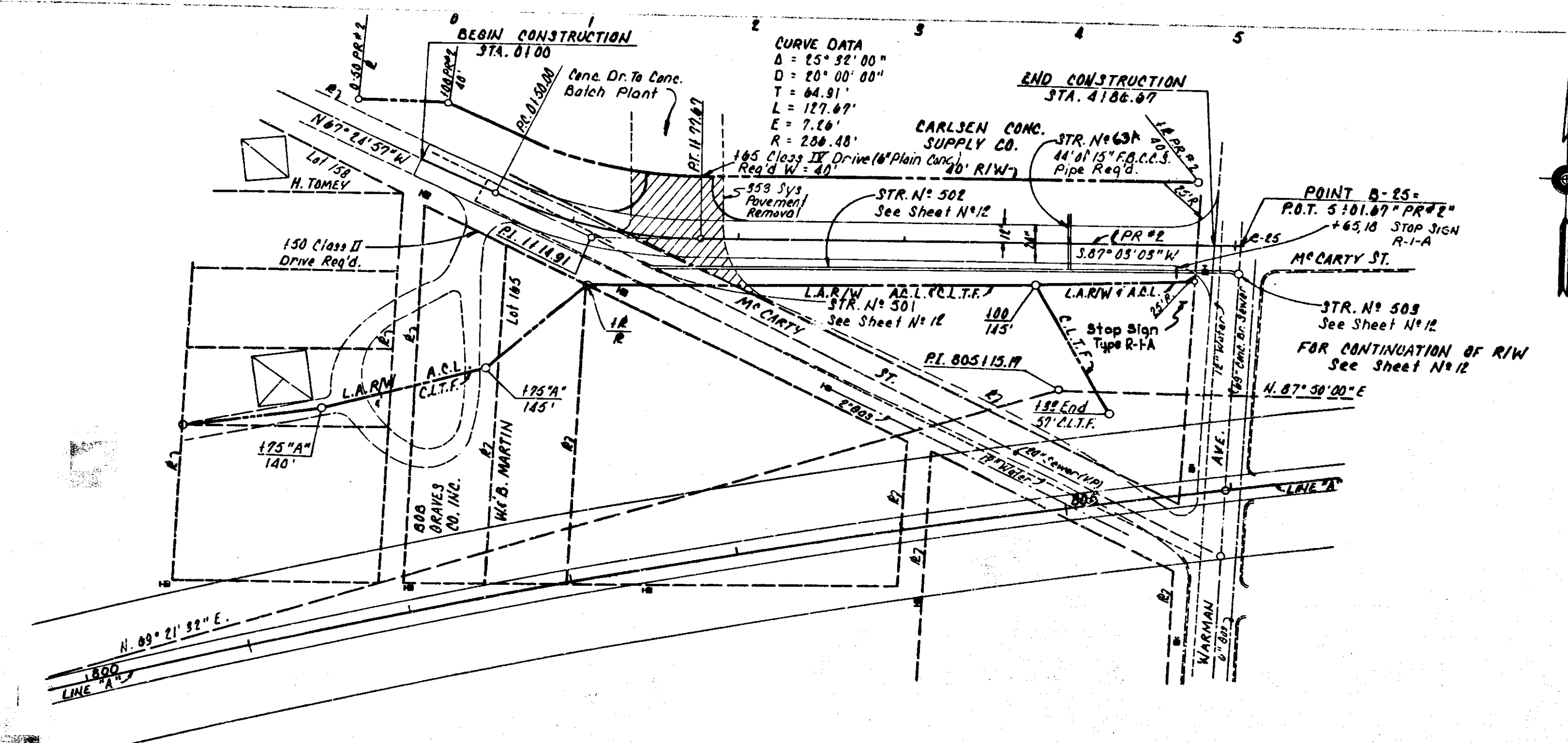


4/13/67

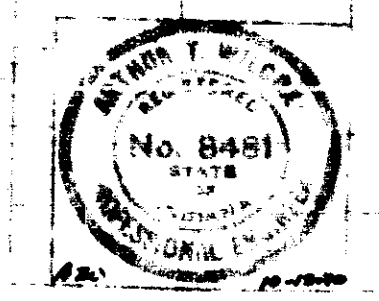
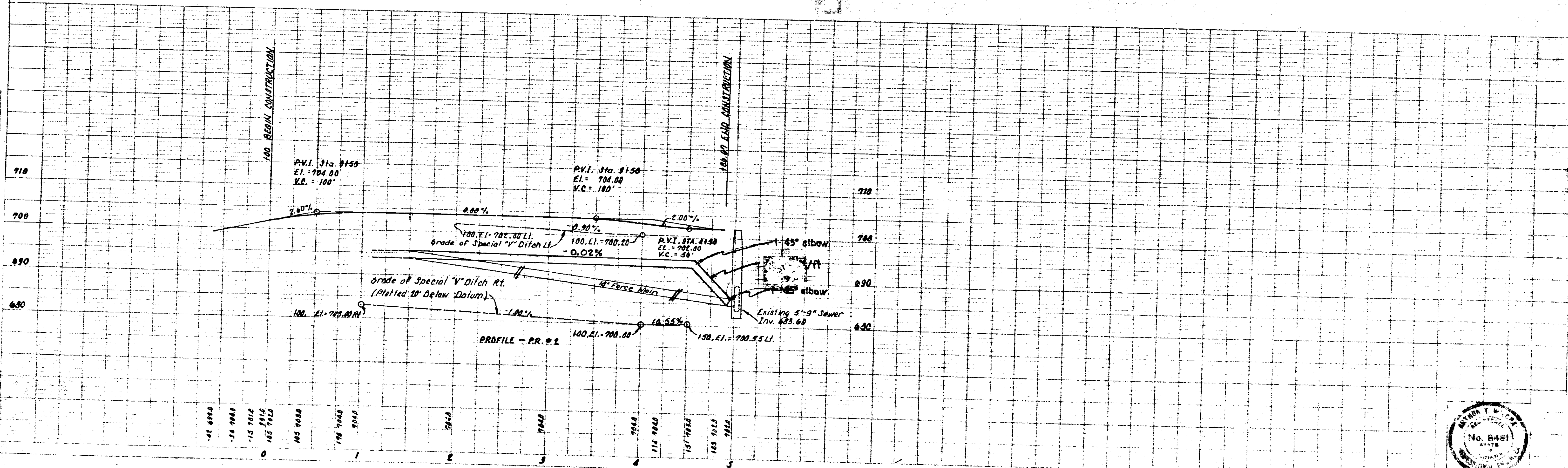
DATE	IND	1-70-515175	1970	14	95
------	-----	-------------	------	----	----



- B.M. #30 B, El. 695.65 - Cut in 6" Conc. Curb @ Curb Flare on S. Curb of Mc Carthy St. W. of Belmont, 9'E. of Curb Inlet, 15'E. of Fire Hydrant (S.W. Cor. of Mc Carthy & Belmont.)
- B.M. #33 B, El. 687.13 - Cut in N.E. Cor. of 5' Conc. Sidewalk @ S.W. Cor. Hiatt St. & Mc Carthy St. 40' N.E. of The N.E. Cor. of House # 802
- B.M. #38 B, El. 687.91 - Cut in End of Conc. Curb @ S.W. Cor. of Kappes St. & Mc Carthy St. 10' N.W. of N.W. Leg of Mail Box.
- B.M. #39 B, E. 687.40 - Cut in N.W. Cor. of 30" Conc. Walk to House # 801, @ S.W. Cor. Shepard St. & Mc Carthy St. 12' S.E. of Fire Hydrant



McCARTY STREET RELOCATION (PR #2)
For Typical Section See Sheet No. 4
Scale: 1" = 50'



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-3(57)75	1970	16	95

BEGIN PROJECT 70-3(57)75
STA. 778+26.33 A
STRUCTURE I-70-76-5391
COMPLETED UNDER PREVIOUS CONTRACT

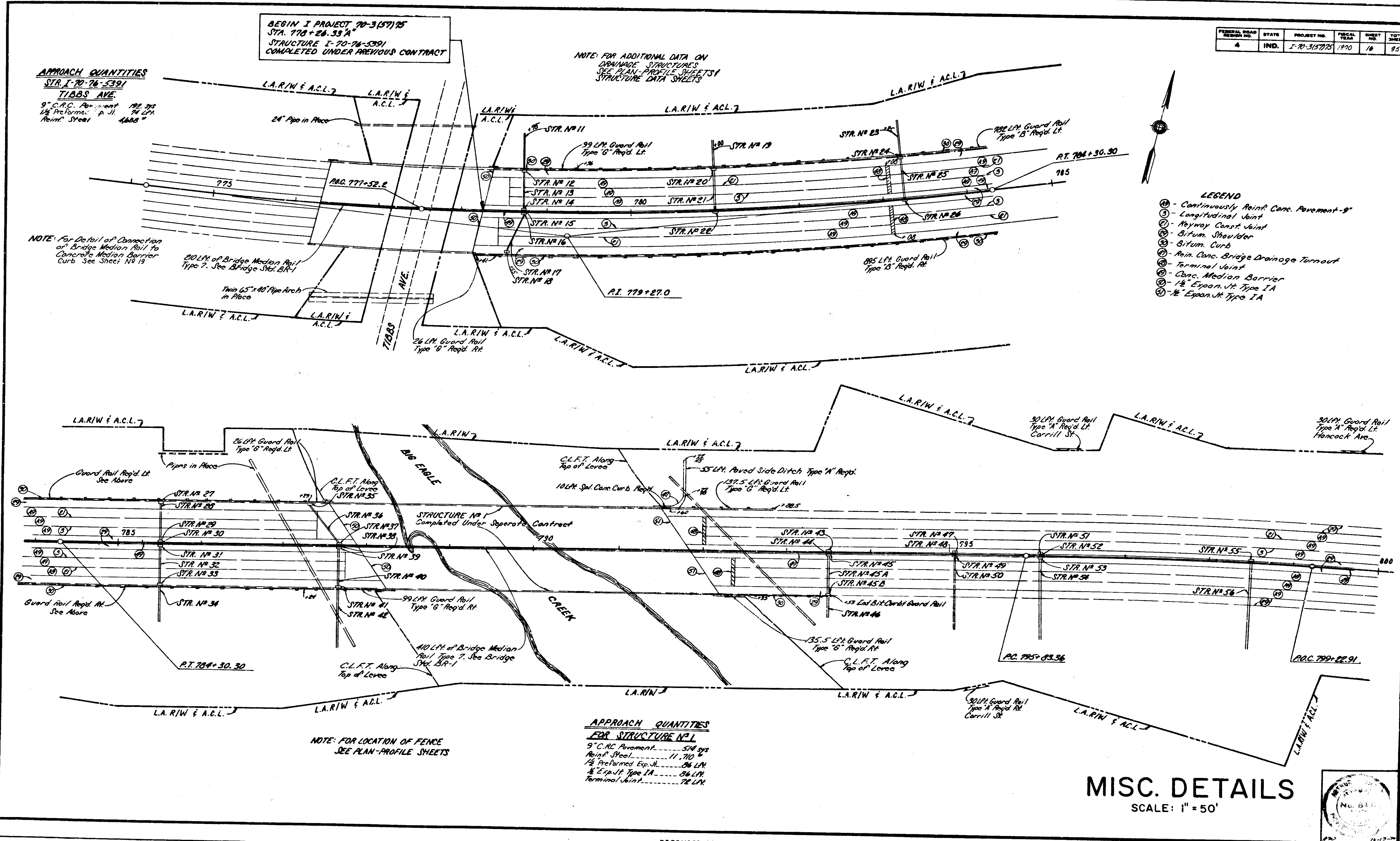
NOTE: FOR ADDITIONAL DATA ON
DRAINAGE STRUCTURES
SEE PLAN-PROFILE SHEETS &
STRUCTURE DATA SHEETS

APPROACH QUANTITIES
STR. I-70-76-5391
TIBBS AVE.

9" C.R.C. Pavement 192.575
1/2" Preformed Equip. 74 L.F.
Rein. Steel 1685'

NOTE: For Detail of Connection
of Bridge Median Rail to
Concrete Median Barrier
Curb See Sheet No. 19

- LEGEND**
- (1) - Continuously Reinf. Conc. Pavement - 9"
 - (2) - Longitudinal Joint
 - (3) - Keyway Const. Joint
 - (4) - Bitum. Shoulder
 - (5) - Bitum. Curb
 - (6) - Rein. Conc. Bridge Drainage Turnout
 - (7) - Terminal Joint
 - (8) - Conc. Median Barrier
 - (9) - 1/2" Expan. Jt. Type 1A
 - (10) - 1/8" Expan. Jt. Type 1A

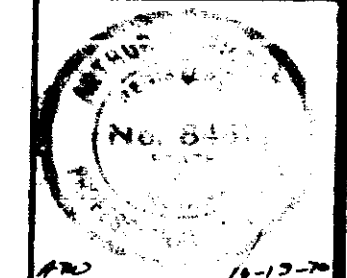


APPROACH QUANTITIES
FOR STRUCTURE NO. 1

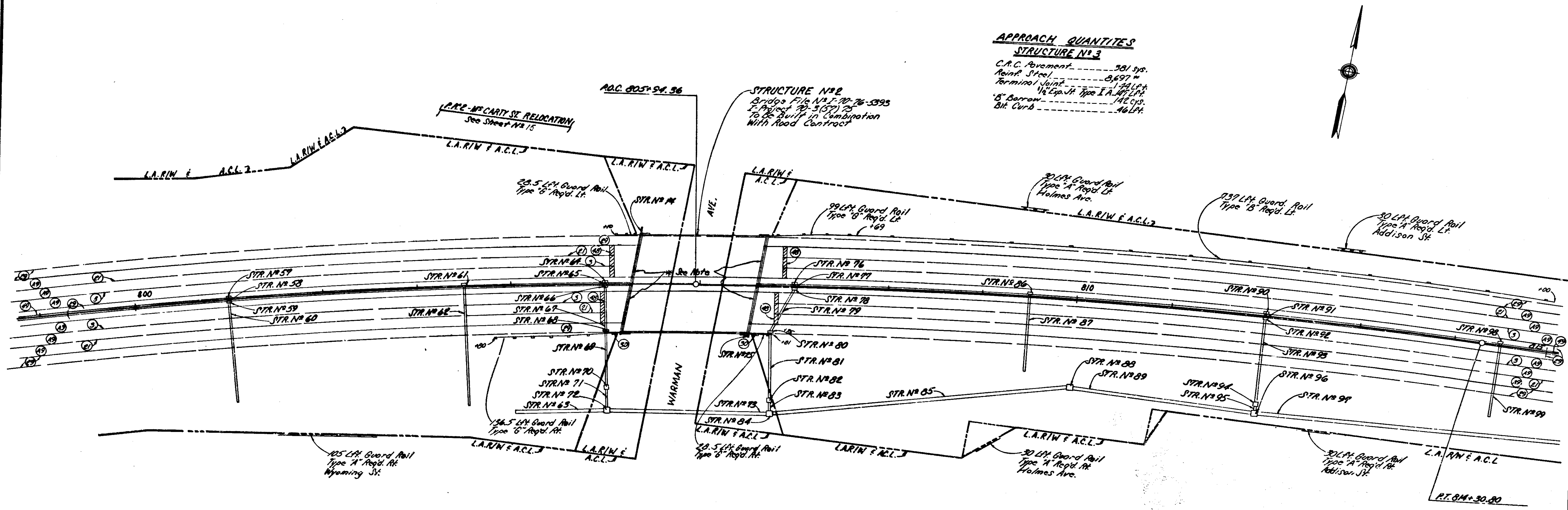
9" C.R.C. Pavement 574.575
Rein. Steel 11,710'
1/2" Preformed Equip. 86 L.F.
1/8" Expan. Jt. Type 1A 86 L.F.
Terminal Joint 78 L.F.

NOTE: FOR LOCATION OF FENCE
SEE PLAN-PROFILE SHEETS

MISC. DETAILS
SCALE: 1" = 50'



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-357175	1970	17	95



NOTE: Expansion Joint Type IA Req'd
See Bridge Plans
Bridge File No. I-70-76-5393

NOTE: For Additional Data on
Drainage Structures, See
Plan-Profile Sheets and
Structure Data Sheets.

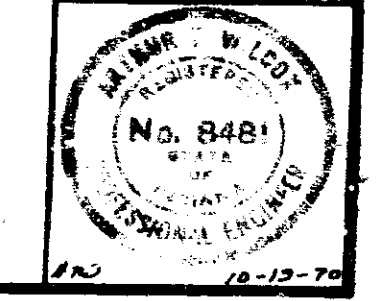
NOTE: For Pavement Removal Items
See Plan-Profile Sheets.

NOTE: FOR LOCATION OF FENCE,
SEE PLAN & PROFILE SHEETS.

NOTE: FOR LEGEND SEE SHEET NO. 10

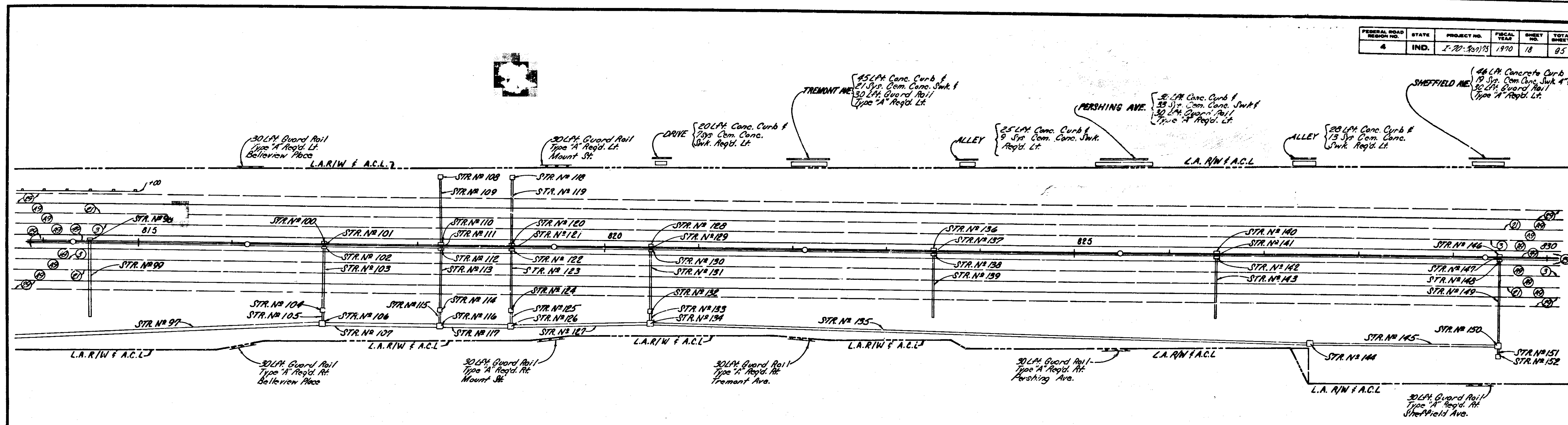
MISC. DETAILS

SCALE: 1" = 50'



DECEMBER 1968

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-50175	1970	18	85



APPROACH QUANTITIES

STRUCTURE NO. 4

Bridge File No. I-70-50-5394

Project: 20-3 (57) 25

To Be Built in Combination With Road Contract

C.R.C. Pavement	149.912
Terminal Joint	72 L.Ft.
1/2" Exp. Type IA	72 L.Ft.
1/2" Burrup	155 Cys.
Reinf. Steel	3244 #

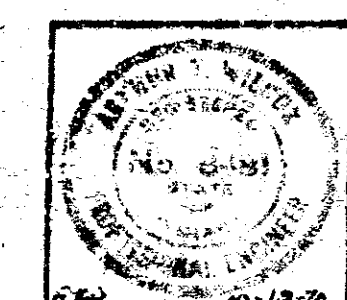
NOTE: CONCRETE CURB AND CONCRETE SIDEWALKS SHOWN FOR STREET CLOSURES TO BE CONSTRUCTED ALONG MS CARTY STREET AND SHALL MEET EXISTING CURBS AND SIDEWALKS.

NOTE: FOR LEGEND SEE SHEET NO. 10

NOTE: FOR LOCATION OF FENCE SEE PLAN & PROFILE SHEETS.

MISC. DETAILS

SCALE: 1" = 50'



GENERAL NOTES

Standard Pavement Section E-II-JR, Revised 8-11-61 As Shown on Sheet No. To Be Used on This Project.
 Standard 10' Ramp Section, Revised 6-30-65 As Shown on Sheet No. To Be Used on The Interchange on This Project.
 Typical Cross Sections As Shown on Sheet Nos. 2-4, To Be Used on This Project.

Indiana State Highway Commission Standard Specifications Dated 1955 To Be Used With These Plans.
 Standards Under Dates As Listed in Index on Title Sheet To Be Used on This Project.

Grade Line as Shown on Profile Represents Top of Finished Surface at Median Edge of Pavement.

The Contractor Will Be Required to Accept Subbase Plan Quantities For The Entire Contract, As Shown on the Estimate of Quantities.

All Ditches of 1% and Over Shall be Sodded Except Where Ditch is in Rock Cut or Where Paved Side Ditch is to be Constructed.

All Earth Shoulders, Cut and Fill Slopes Shall be Plain or Mulched Seeded Except Where Sodding is Specified.

Sodding Shall be Placed Along Paved Side Ditch as Shown on Miscellaneous Standard Sheet 'B'.

Details of Super-elevation Transitions Are Shown on Sheet Nos.

Quantities for Pipe Culvert Headwalls are Based on Using Standard Headwalls for Retaining Slopes Steeper than 4:1 and Private Entrance Headwalls on 4:1 or Flatter Slopes.

For Kinds of Pipe Permitted for Each Size and Classification as Shown in Structure Notes See Miscellaneous Standard Sheet 'P'.

Contraction Joints Shall be Placed at All Manholes Within Pavement Limits

END I PROJECT 70-3(37)73
BEGIN I PROJECT 70-3(56)75

Contraction Joints Shall be Placed at the Beginning and End of all Radii and at Street and Alley Intersections.

All Limited Access Right-of-Way (L.A.R.W.) to be Fenced with Chain Link Type Fence (C.L.T.F.) as Specified in the Plans.

The Minimum Grade for Subsurface Drain Shall be 0.20%. Where the Profile Grade is Less than 0.20%, Special Grades for Subsurface Drains Shall be Established by the Engineer.

Location of Subsurface Drains Shown on Sheet No. 58.

Table of Quantities for Sodding and Reinforcing Steel Shown on Sheet No.

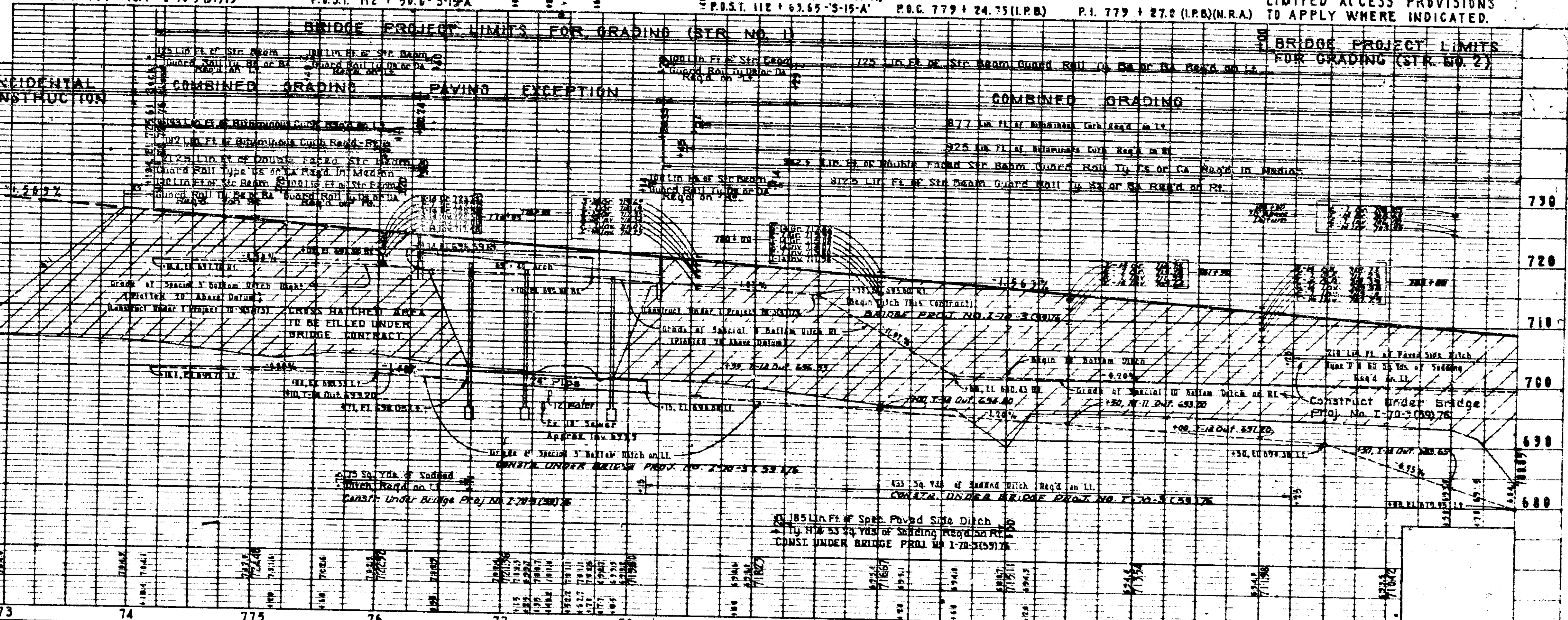
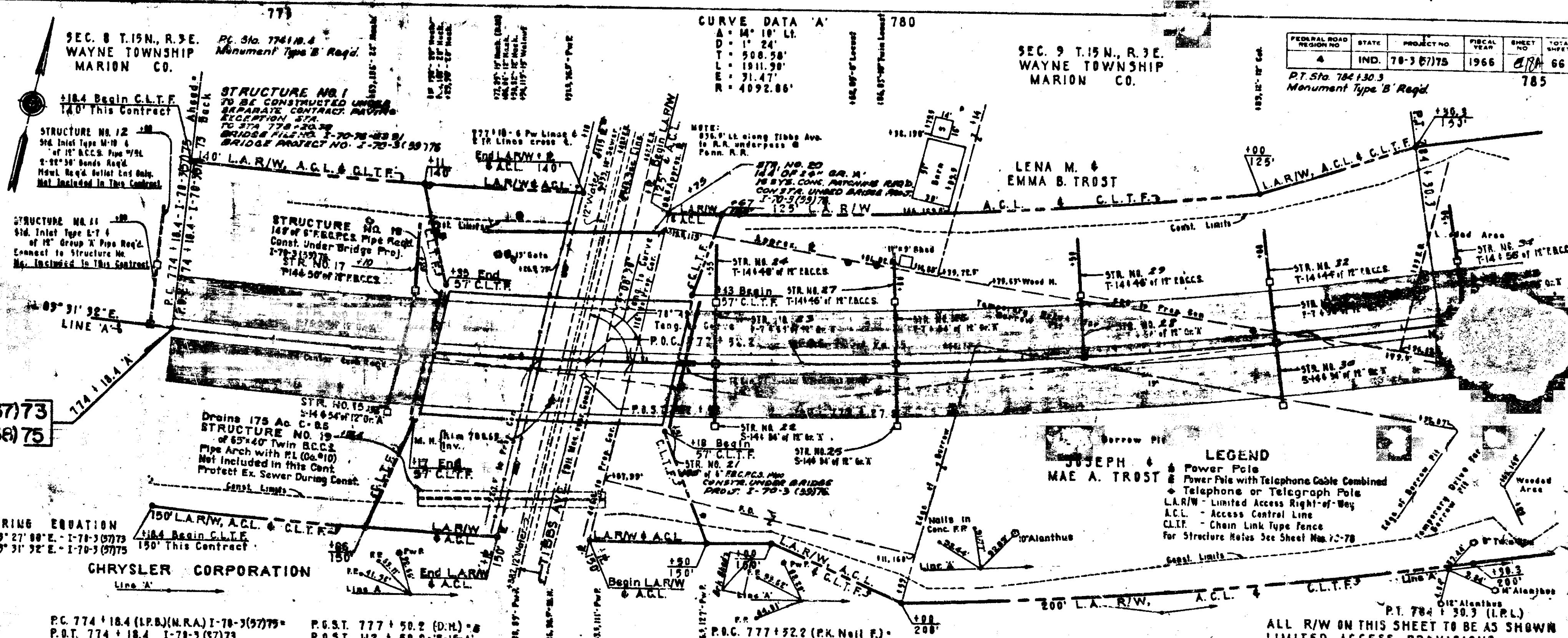
Table of Quantities for Beam Guard Rail, Standard Guard Rail and Gurb Turnouts Shown on Sheet No.

Service to be Maintained at All Times on Existing Sewers.

As an Aid to the Contractor in Separating Structures for Roadway Drainage from those Required by the Indianapolis Sanitary District, the L.S.D. Facilities are Marked and the 'Str. Nos. are Listed in the Special Provisions.

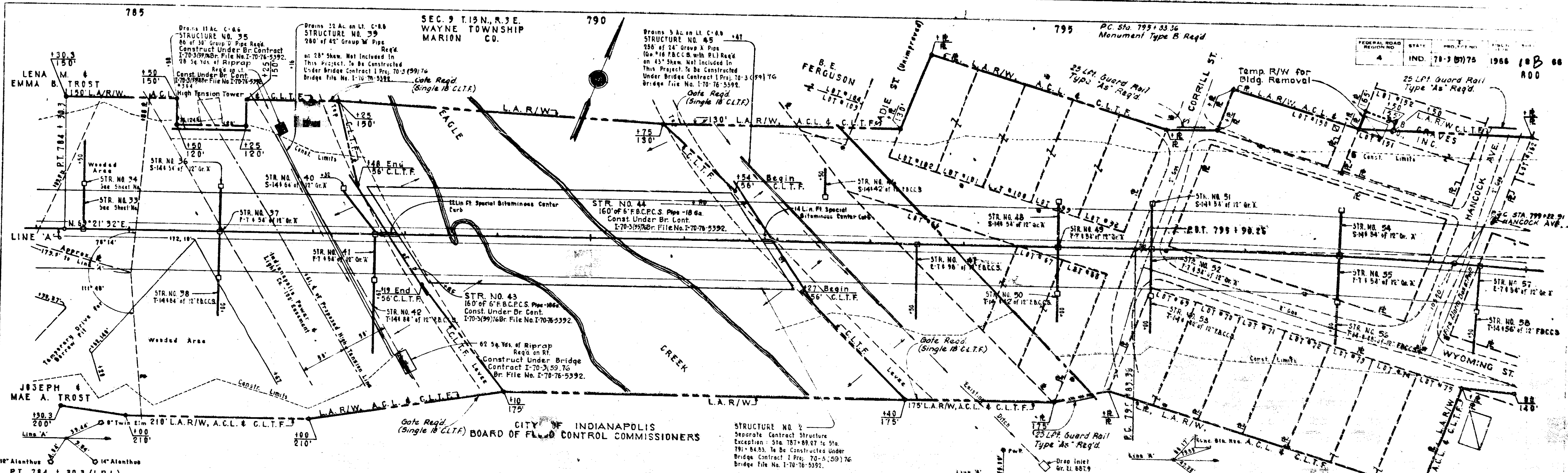
All Indianapolis Sanitary District Facility Catch Basins are to be Holed.

All Indianapolis Sanitary District Facility V.C. Pipe as shown in Structure Notes Shall be V.C. Culvert Pipe.



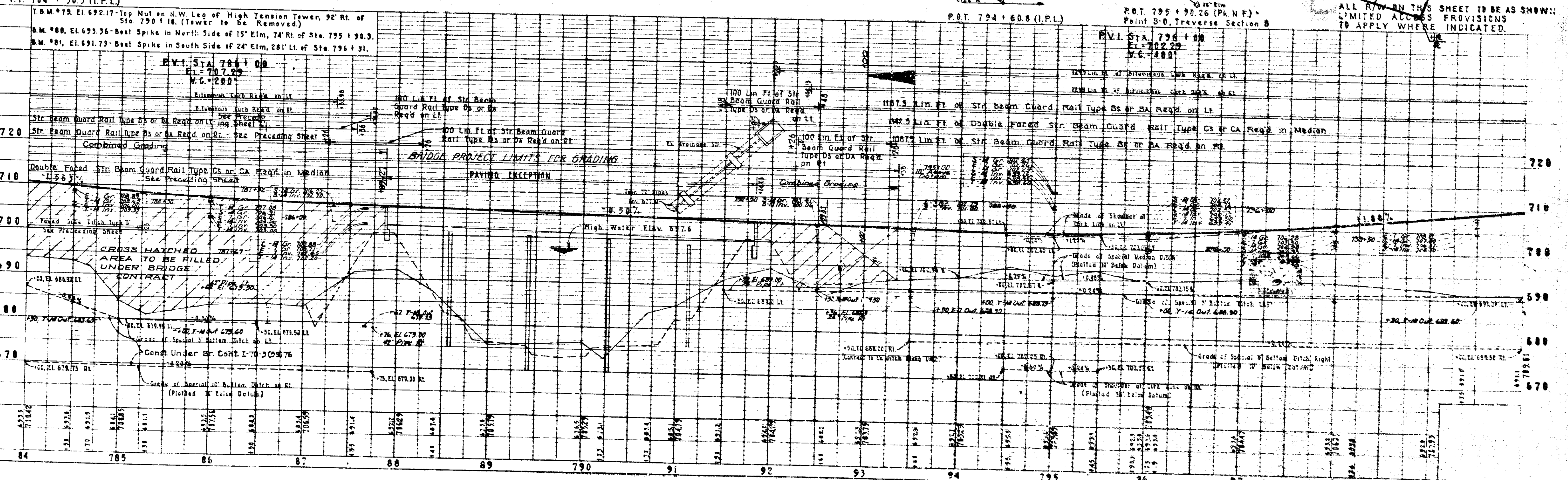
LEVEL EQUATION	INCIDENTAL CONSTRUCTION	COMBINED GRADING	PAVING EXCEPTION	COMBINED GRADING
BM 77, EL. 701.32 Line 'A' Back - EL. 701.47 Line 'A' Ahead				
POWER LINES Indianapolis Power & Light Co. 25 Monument Circle Indianapolis, Indiana				
TELEPHONE LINES & CABLES Indiana Bell Telephone Co. 248 N. Meridian St. Indianapolis, Indiana				
WATER LINES Indianapolis Water Co. 181 S. Meridian St. Indianapolis, Indiana				
GAS LINES Citizen Gas & Coke Utility 2020 N. Meridian Street Indianapolis, Indiana				
BM 77, EL. 701.47 - Boat Spike in South Side of 16" Hackberry, 86' Lt. Sta. 776 + 75. BM 78, EL. 691.17 - Boat Spike in South Side of 24" Cottonwood, 1.5' from Ground 273' Lt. Sta. 785 + 21'				
The relocated Utilities shown on sheets No. 13, 14 to 18E will be constructed concurrently with the road contract				

UTILITY	RELOCATED UTILITY
Water	
Telephone	
Electric	
Gas	
Steam	
Sanitary Sewers	



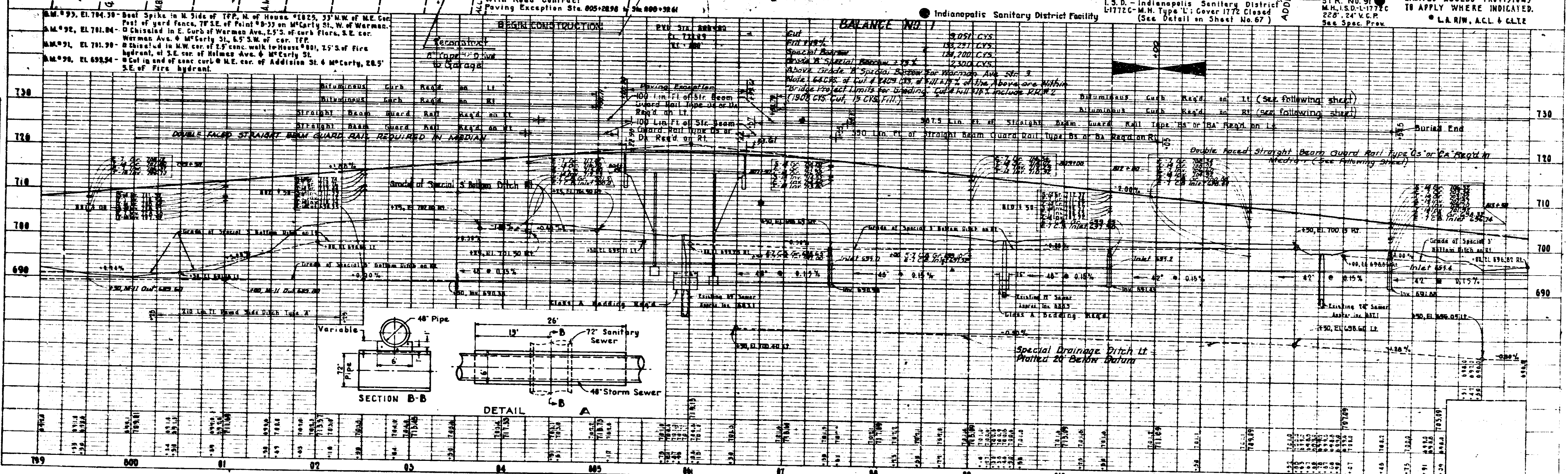
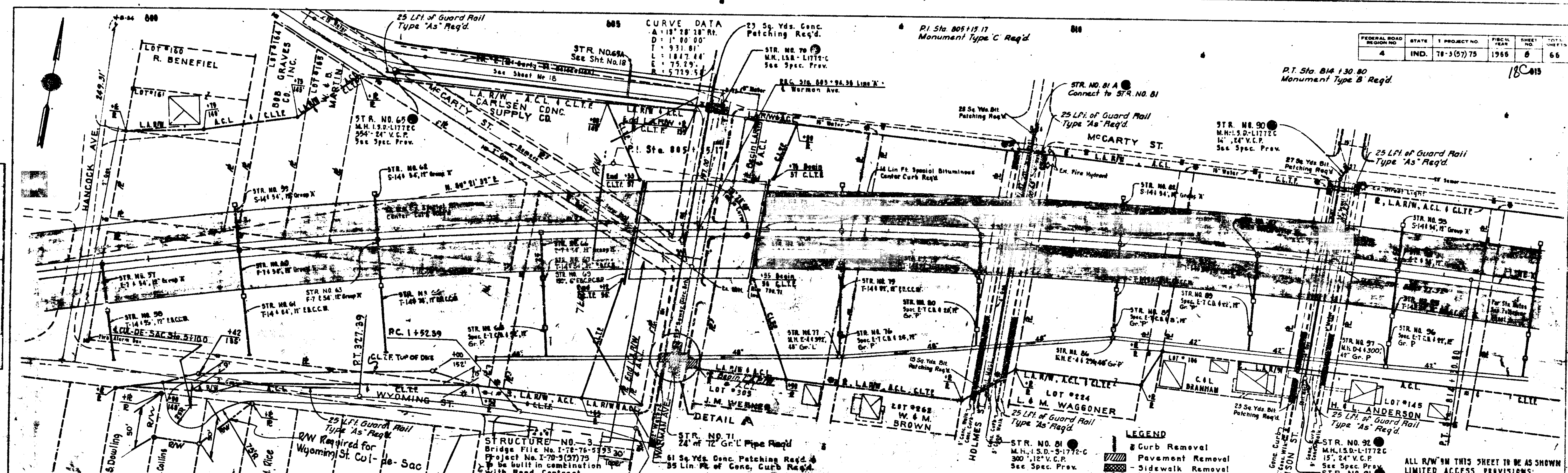
PLAN
 SHEET NO. 889811
 DATE: 4/15/67
 BY: J. W. GIBBS & SONS, INC.
 ENGINEERS
 1501 W. 10th St., Indianapolis, Ind. 46202

PROFILE
 SHEET NO. 889811
 DATE: 4/15/67
 BY: J. W. GIBBS & SONS, INC.
 ENGINEERS
 1501 W. 10th St., Indianapolis, Ind. 46202



EXISTING AND RELOCATED UTILITIES
 DATE: 4/15/67

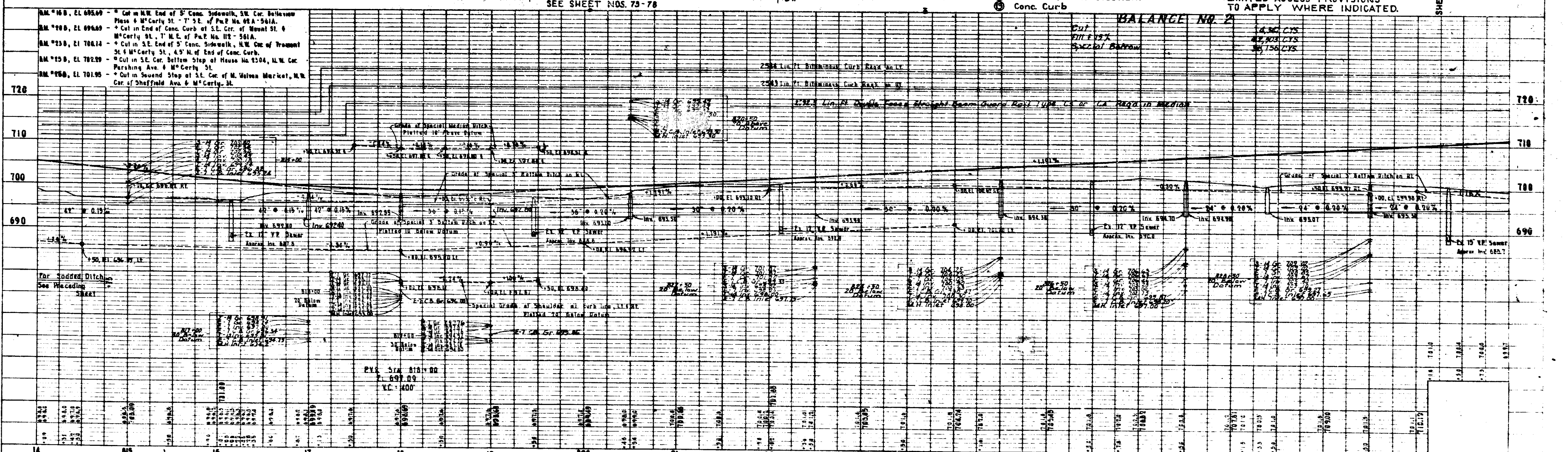
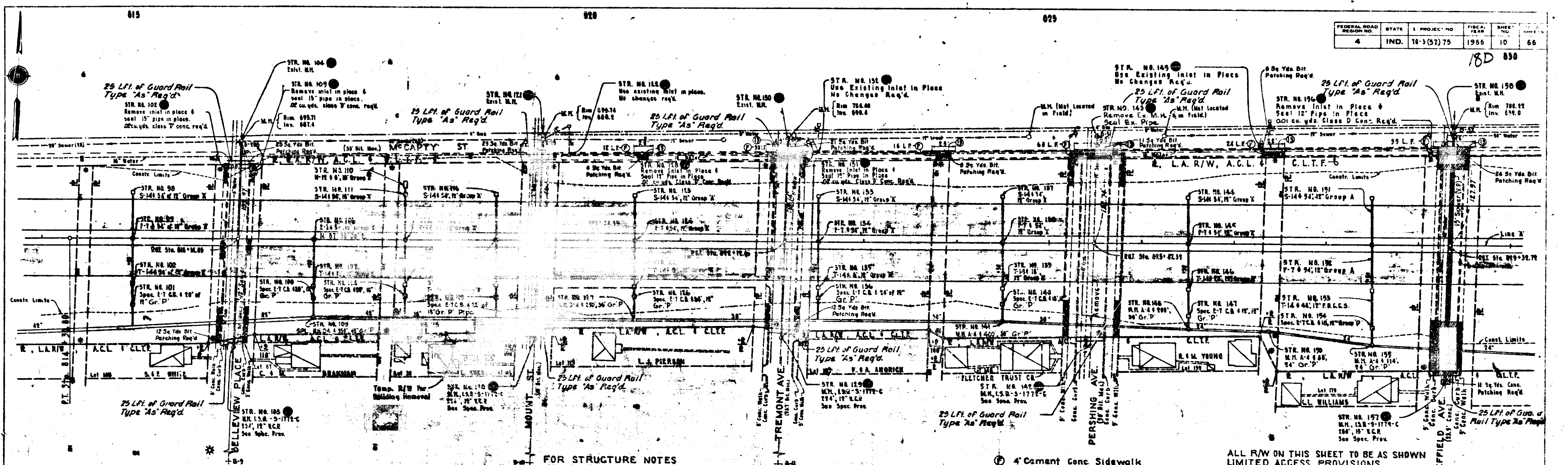
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	78-3(7)75	1966	6	66



PLANS
 SHOW ALL CURVES AND ALL CHANGES IN CURVE DATA.
 SHOW ALL CHANGES IN CURVE DATA.
 SHOW ALL CHANGES IN CURVE DATA.

PROFILES
 SHOW ALL CHANGES IN CURVE DATA.
 SHOW ALL CHANGES IN CURVE DATA.
 SHOW ALL CHANGES IN CURVE DATA.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	10-3(5)75	1966	10	66



PLAN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

PROFILE
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 DATE: [Date]

FOR STRUCTURE NOTES SEE SHEET NOS 73-78
 4" Cement Conc. Sidewalk
 Conc. Curb
 ALL R/W ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.

830

Sta 834+00 Monument Type B Req'd

835

P.C. Sta 839+68.91 Monument Type B Req'd

840

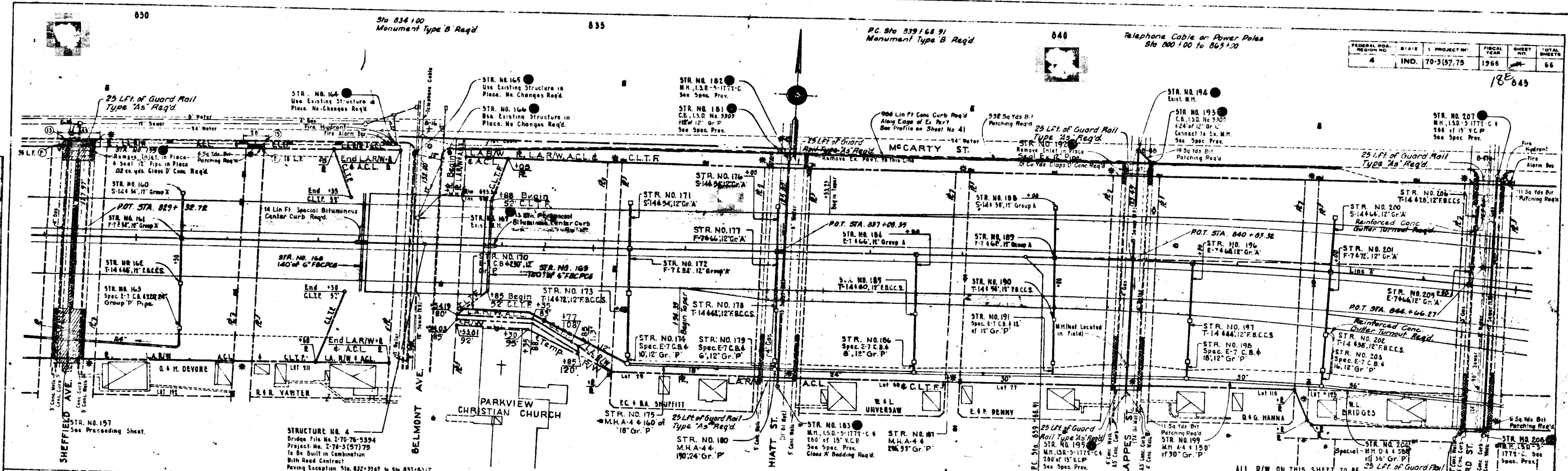
Telephone Cable or Power Poles Sta 800+00 to 865+00

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70-367.75	1966	18E	66

18E 648

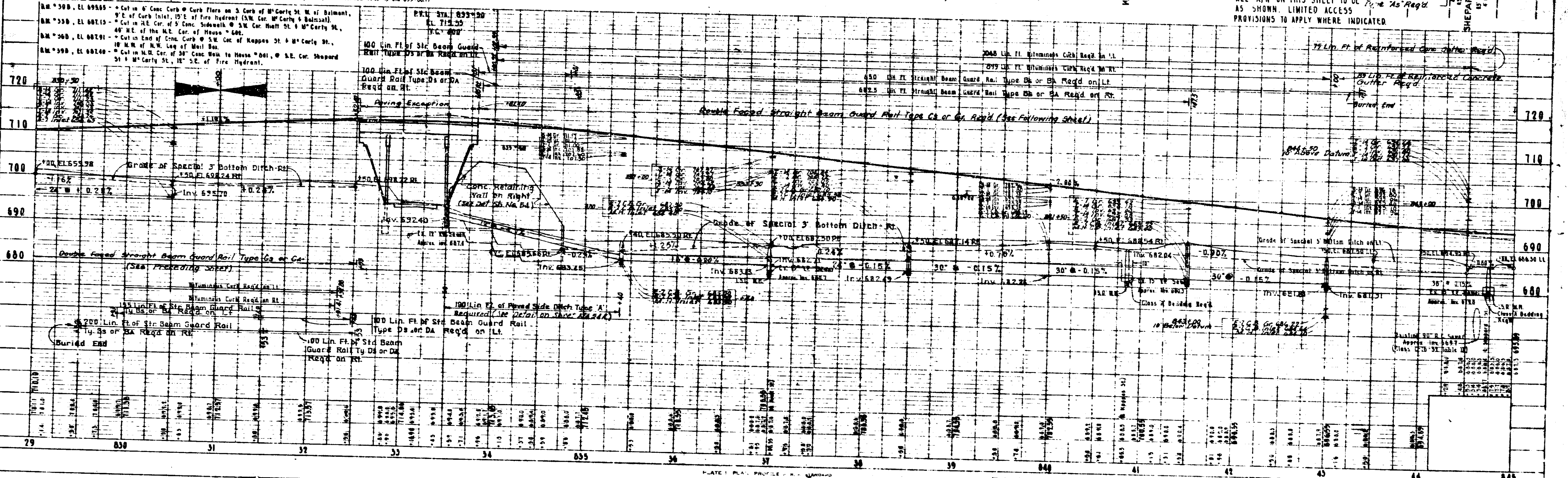
PLAN

NOTES:
 1. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
 2. ALL WORK IS TO BE ACCORDING TO THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AS APPLICABLE.
 3. ALL UTILITIES TO BE DELETED OR RELOCATED AS SHOWN ON THIS SHEET.
 4. ALL UTILITIES TO BE RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 5. ALL UTILITIES TO BE DELETED SHALL BE REMOVED BY THE CONTRACTOR.
 6. ALL UTILITIES TO BE RELOCATED SHALL BE INSTALLED BY THE CONTRACTOR.
 7. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 8. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 9. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 10. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.



PROFILE

NOTES:
 1. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
 2. ALL WORK IS TO BE ACCORDING TO THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AS APPLICABLE.
 3. ALL UTILITIES TO BE DELETED OR RELOCATED AS SHOWN ON THIS SHEET.
 4. ALL UTILITIES TO BE RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 5. ALL UTILITIES TO BE DELETED SHALL BE REMOVED BY THE CONTRACTOR.
 6. ALL UTILITIES TO BE RELOCATED SHALL BE INSTALLED BY THE CONTRACTOR.
 7. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 8. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 9. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.
 10. ALL UTILITIES TO BE DELETED OR RELOCATED SHALL BE INSTALLED AT THE OWNERS RISK AND EXPENSE.

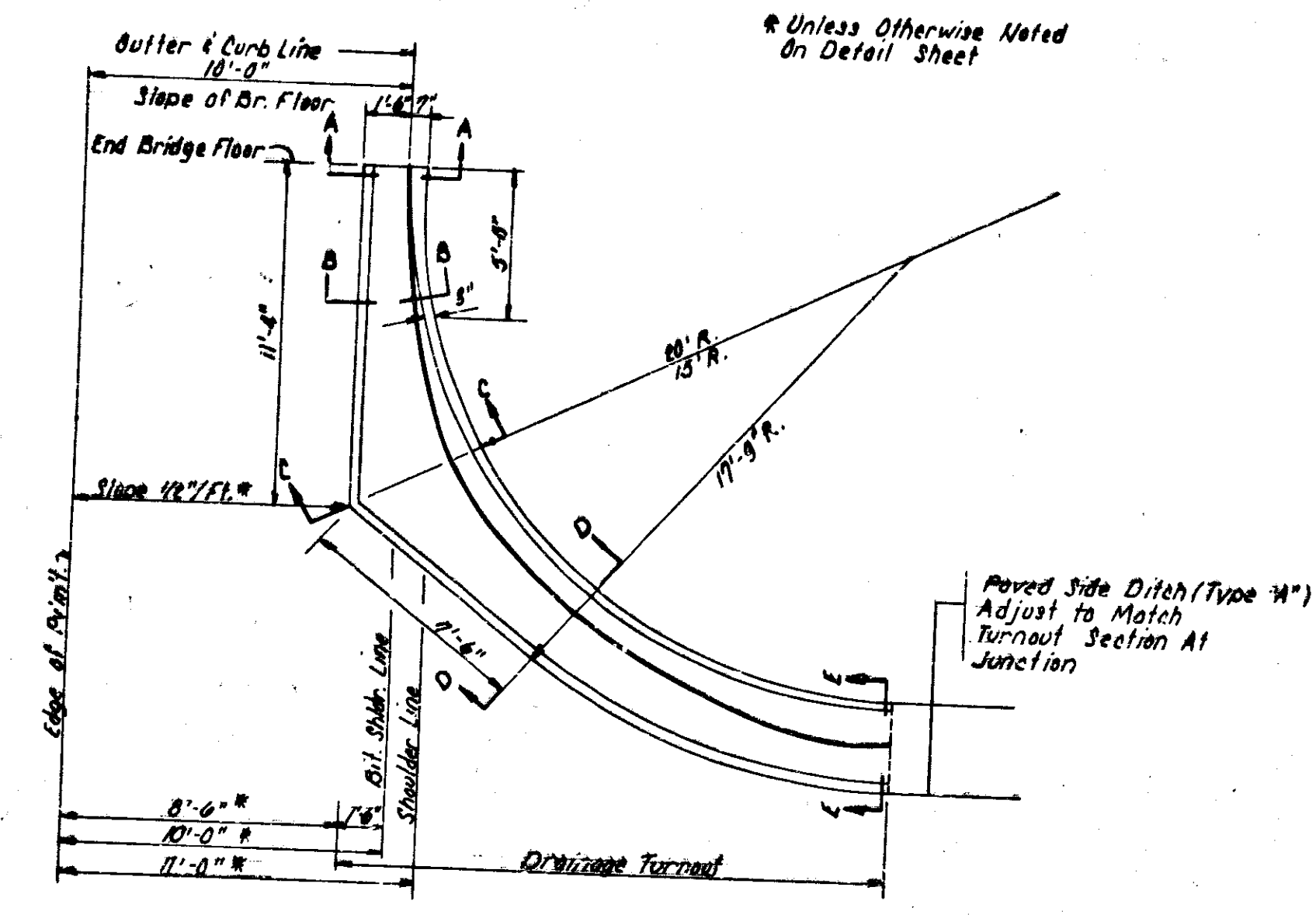


November 6, 1961

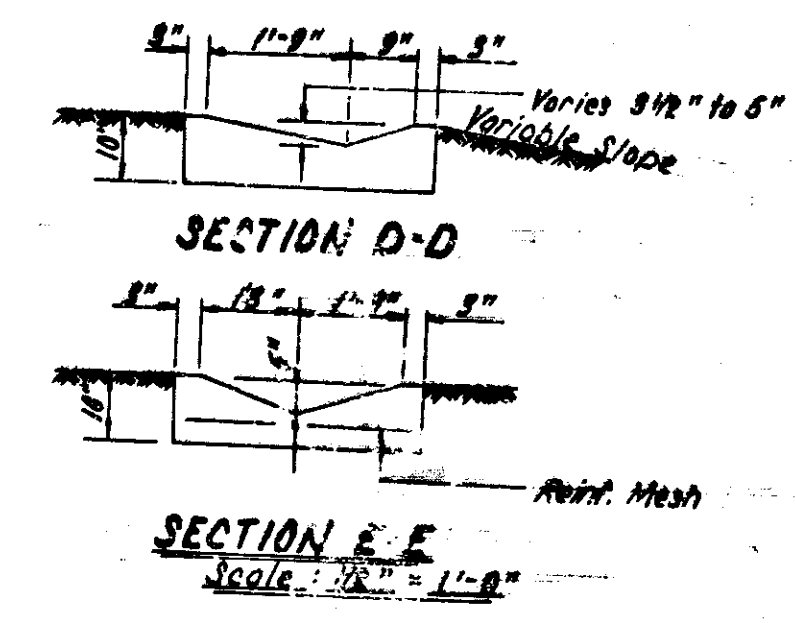
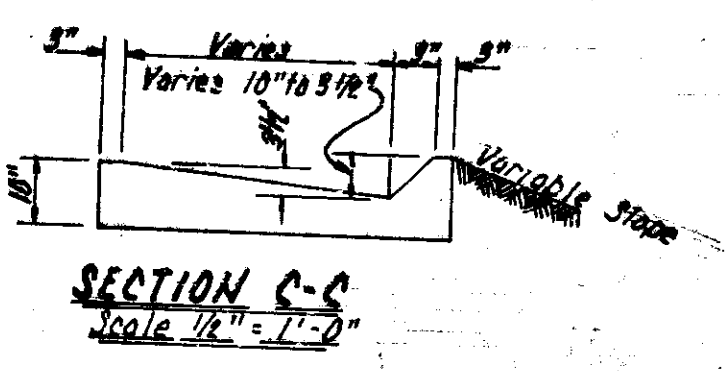
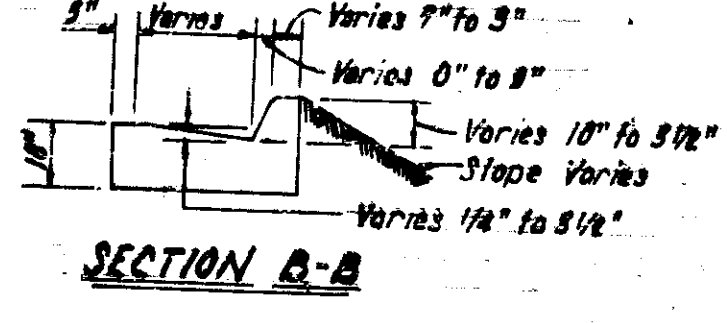
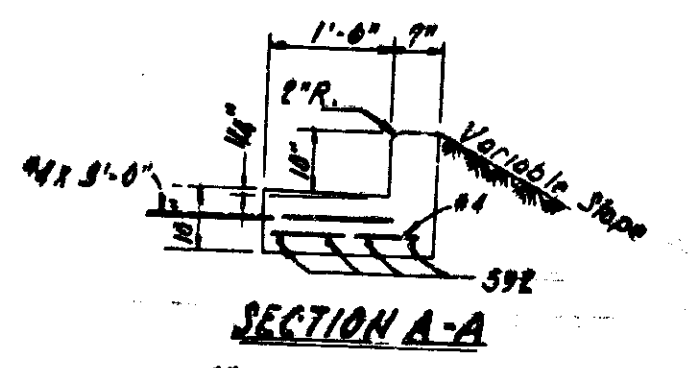
EXISTING RELOCATED UTILITIES

PROJECT NO. 70-367.75 SHEET 18E TOTAL SHEETS 66

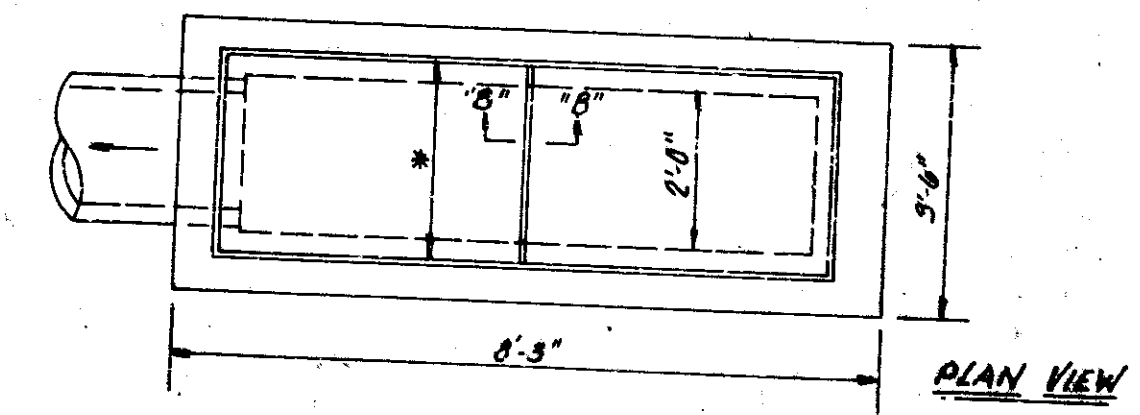
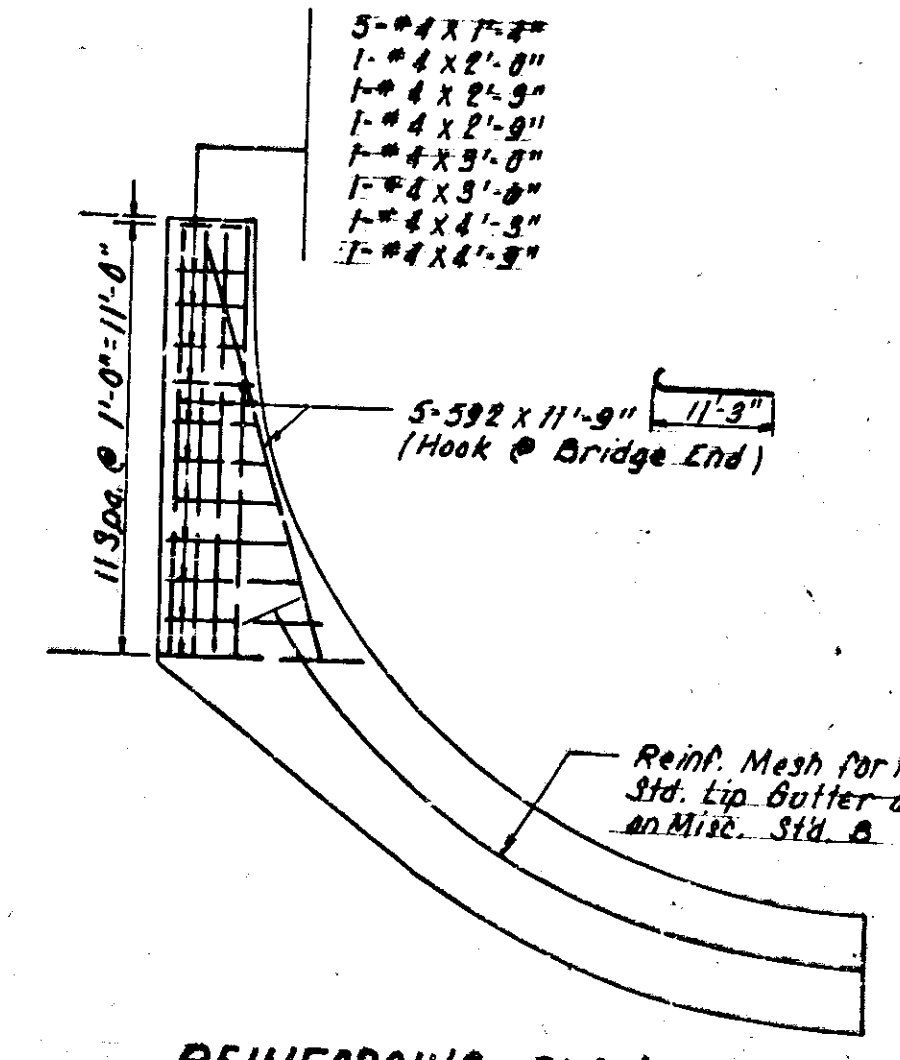
FEDERAL ROAD DESIGN NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-30075	1970	13	25



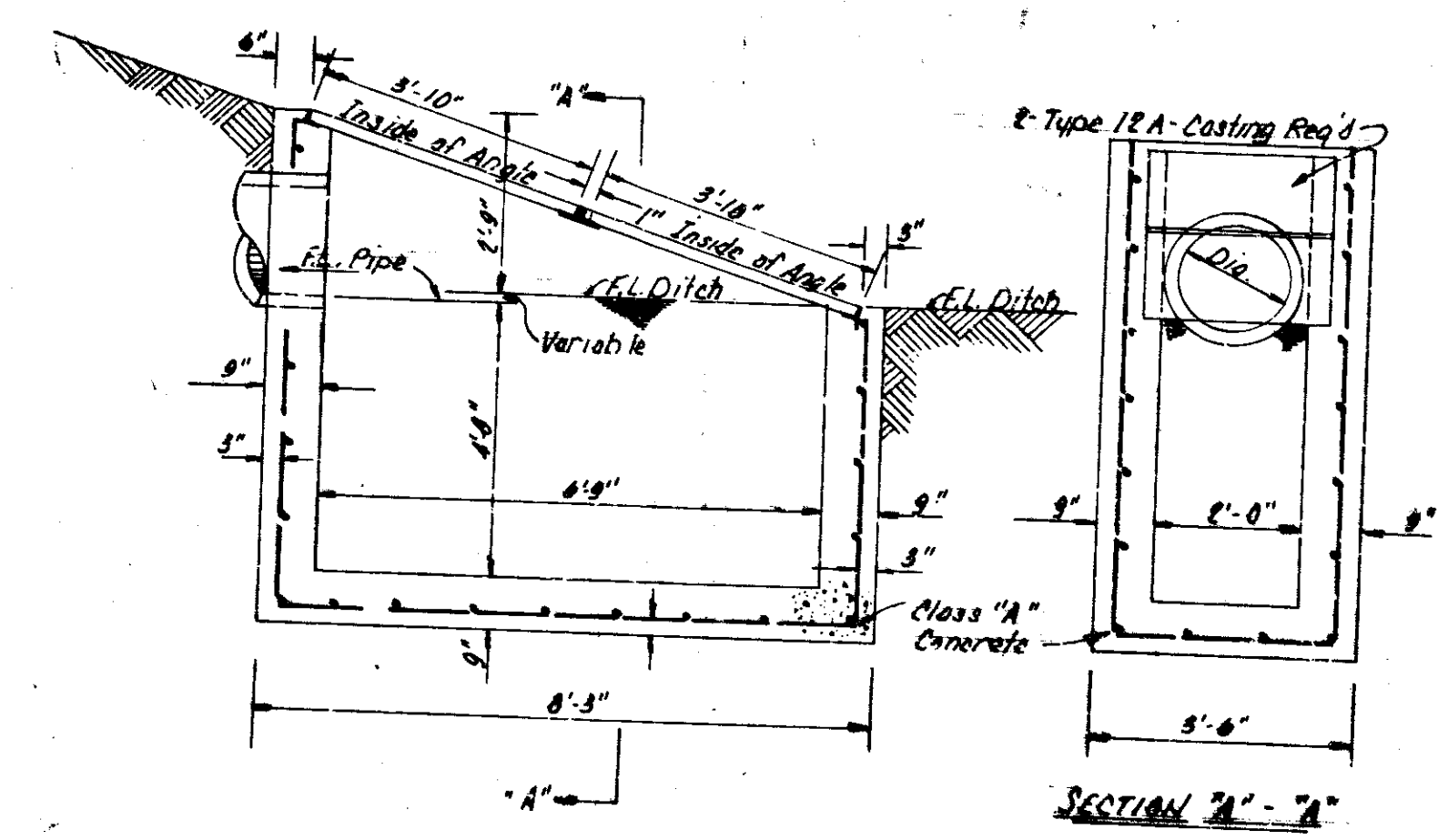
REINFORCED CONC. BRIDGE DRAINAGE TURNOUT
Scale: 1/16" = 1'-0"



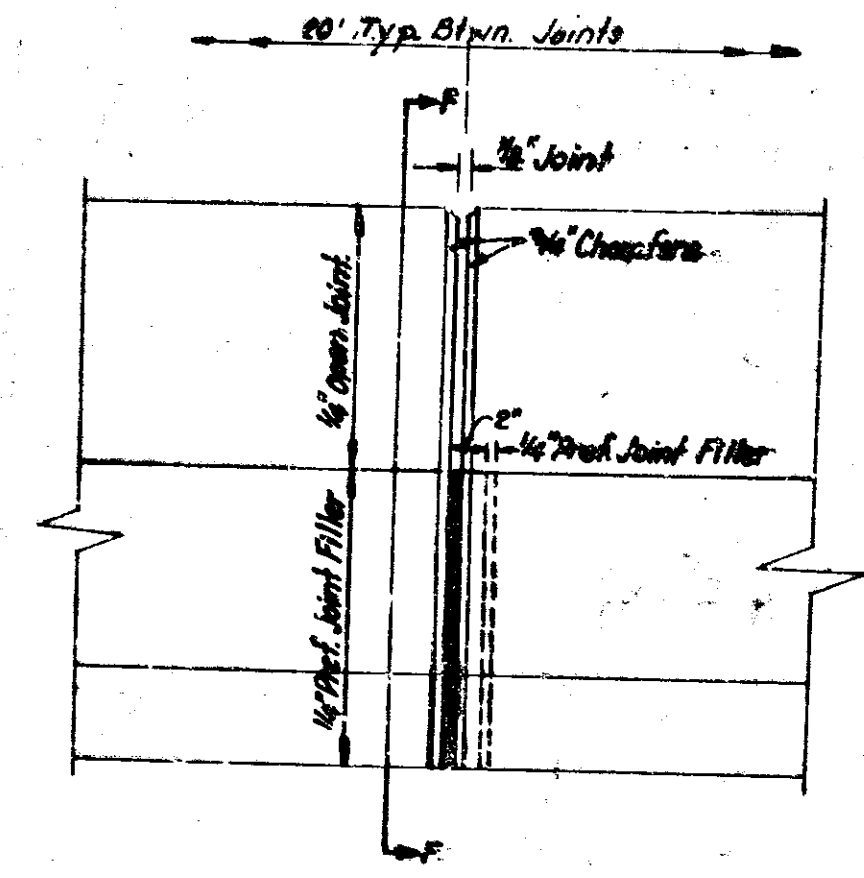
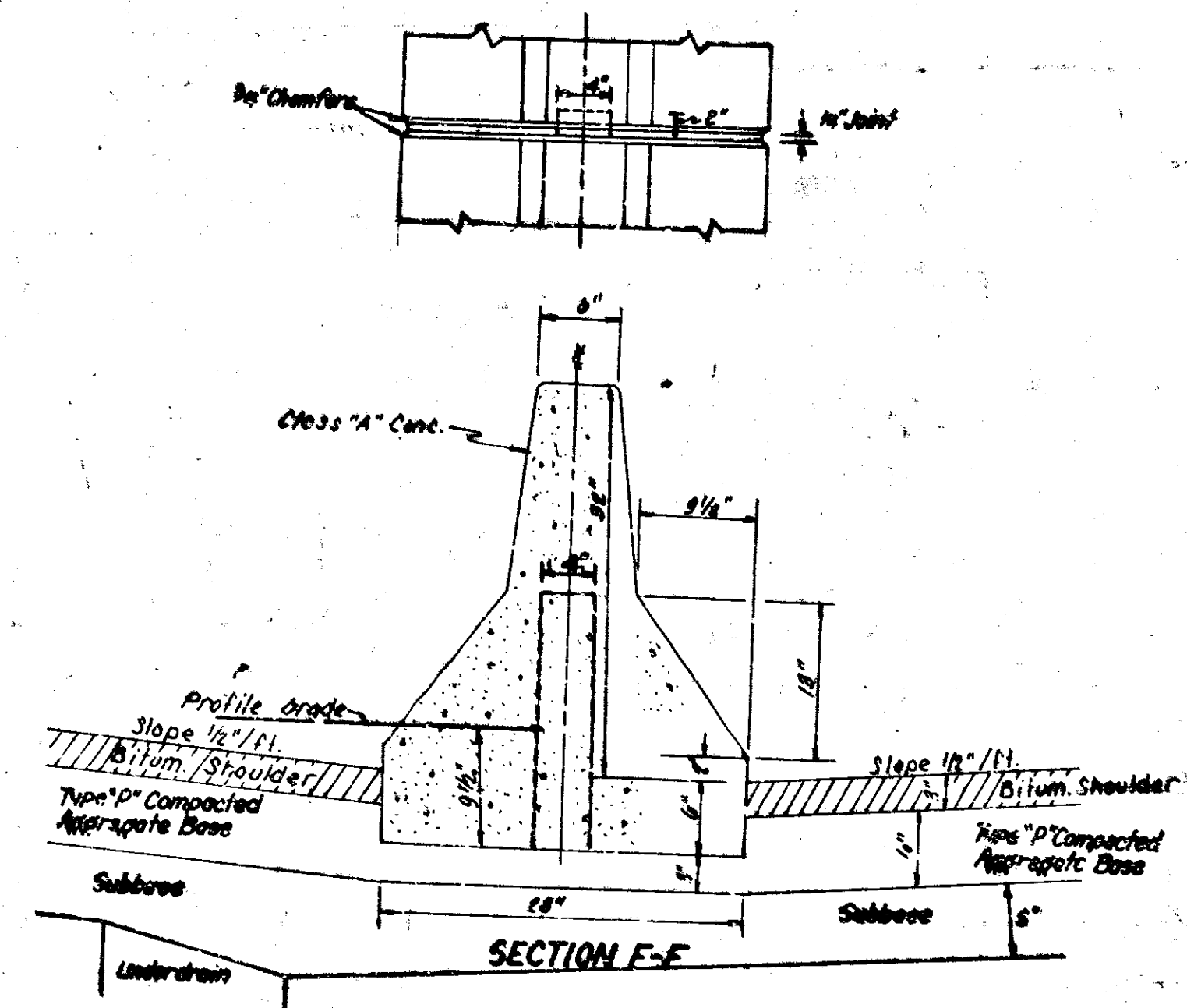
Note: Reinforced Concrete Bridge Drainage Turnout Will Be Measured and Paid for as 45 Lin. Ft. of Paved Side Ditch Type "A". The Cost of Reinforcing Steel Included DOWELS and MESH to Be Included in the Cost of the Reinforced Concrete Bridge Drainage Turnout.



Note: 1. * Width - 2'-6" Inside of Angle
2. For Additional Information, See Misc. Std. Steel "3"
3. All Reinforcing Steel #5 Bars @ 12" 2 to 2 Max.



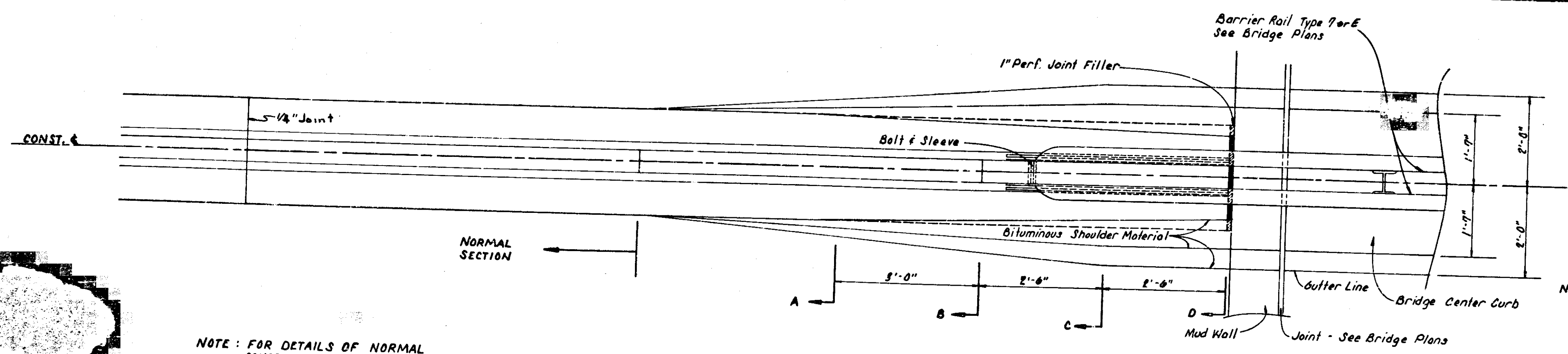
SPECIAL CATCH BASIN TYPE "3"



DETAILS



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-350/75	1970	20	95

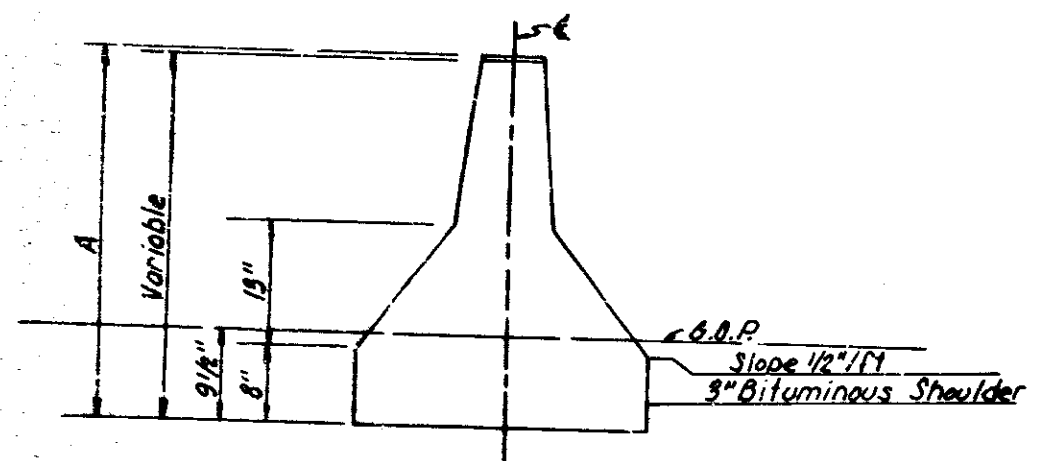
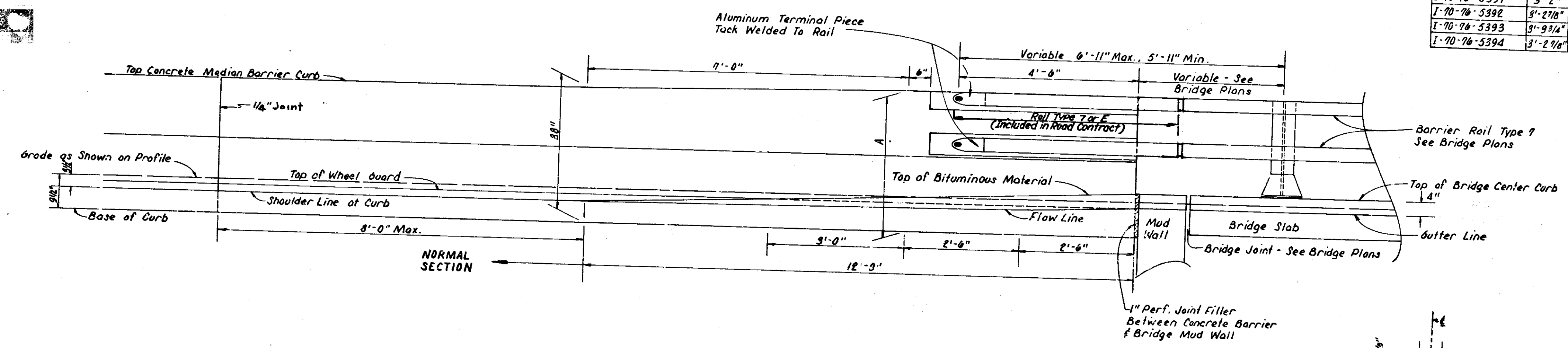


NOTE: FOR DETAILS OF NORMAL CONCRETE MEDIAN BARRIER SECTION SEE SHEET N°15

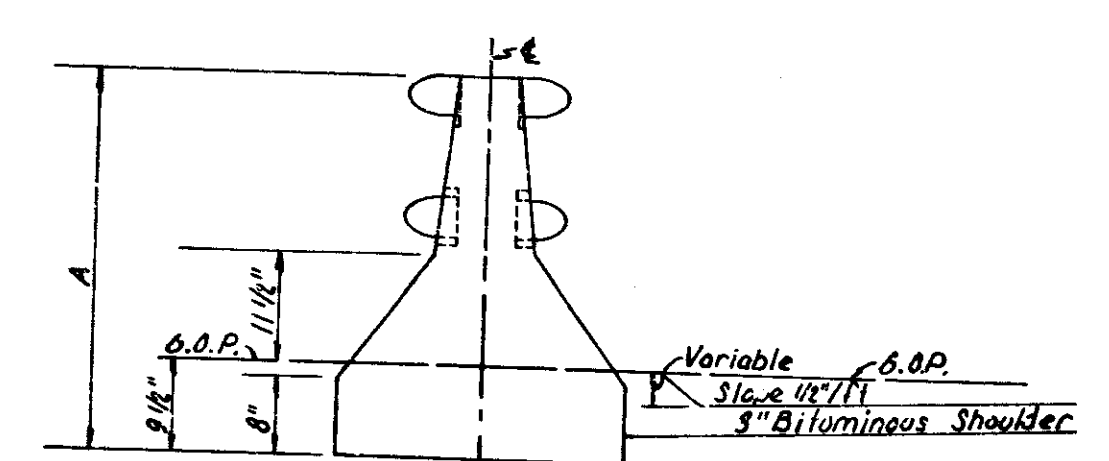
NOTE: SLEEVE FOR CONNECTING BOLT TO BE 9/16" x 2" W/LONG AXIS HORIZ.

STR N°	A	B
I-70-76-5391	8'-2"	2'-4 1/2"
I-70-76-5392	8'-2 7/8"	2'-5 9/16"
I-70-76-5393	8'-9 3/4"	3'-0 1/4"
I-70-76-5394	8'-2 7/8"	2'-5 9/16"

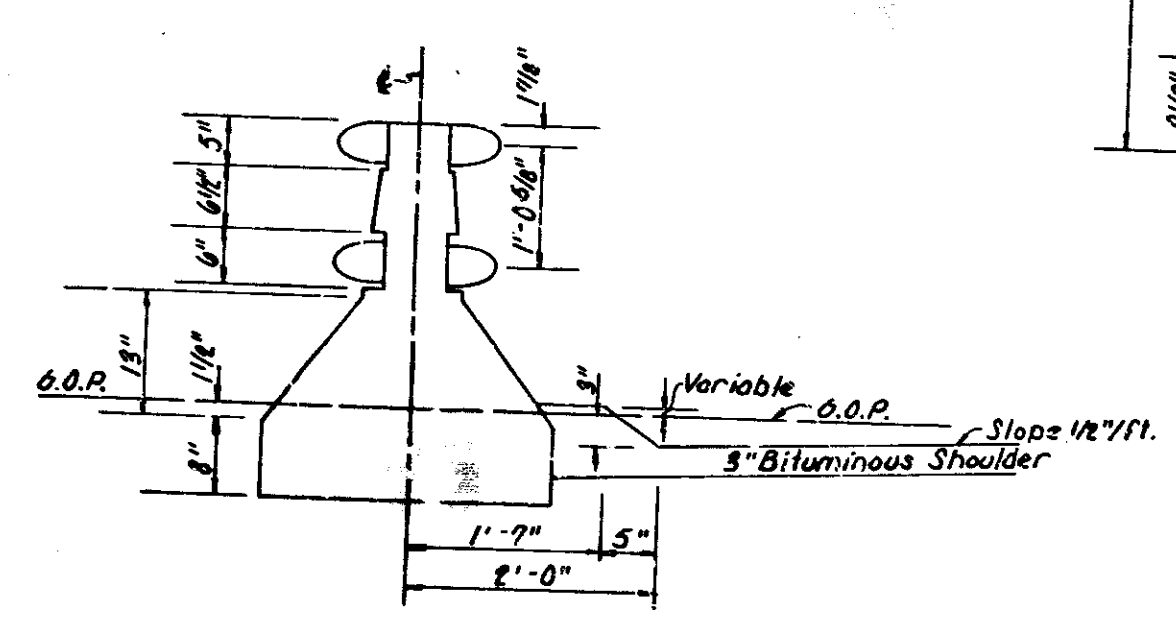
NOTE: BITUMINOUS SHOULDER & CURB TRANSITIONS SHOWN APPLY ONLY FOR I-70-76-5392 & 5394. PROJECT ENGR. TO DETERMINE LENGTH AND CONFIGURATION OF TRANSITIONS FOR I-70-76-5391 & 5393 USING A MAXIMUM LONGITUDINAL SLOPE OF 1/2" / FT. WITH RESPECT TO THE GRADE AS SHOWN ON PROFILE (G.O.P.)



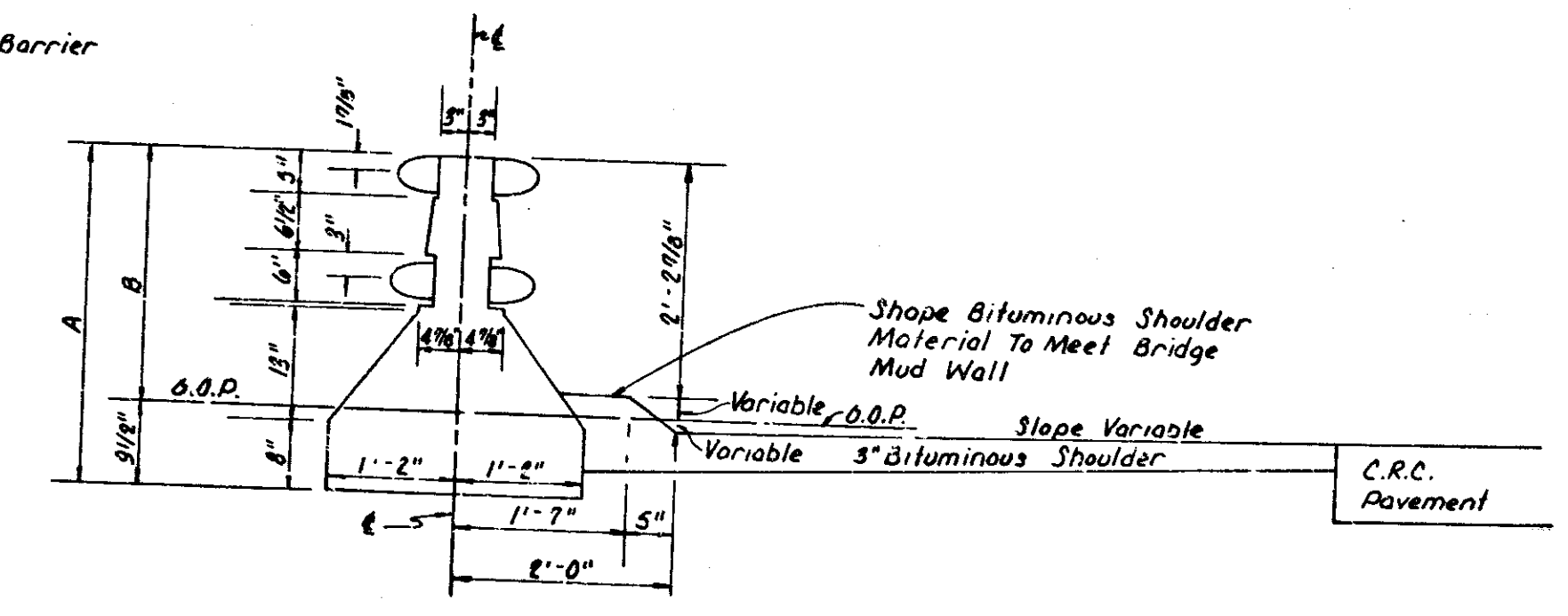
SECTION "A-A"



SECTION "B-B"



SECTION "C-C"

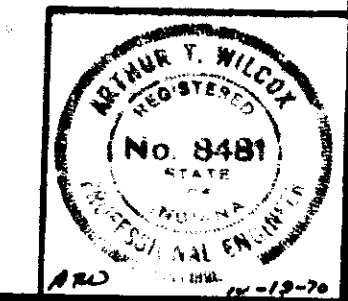


SECTION "D-D"

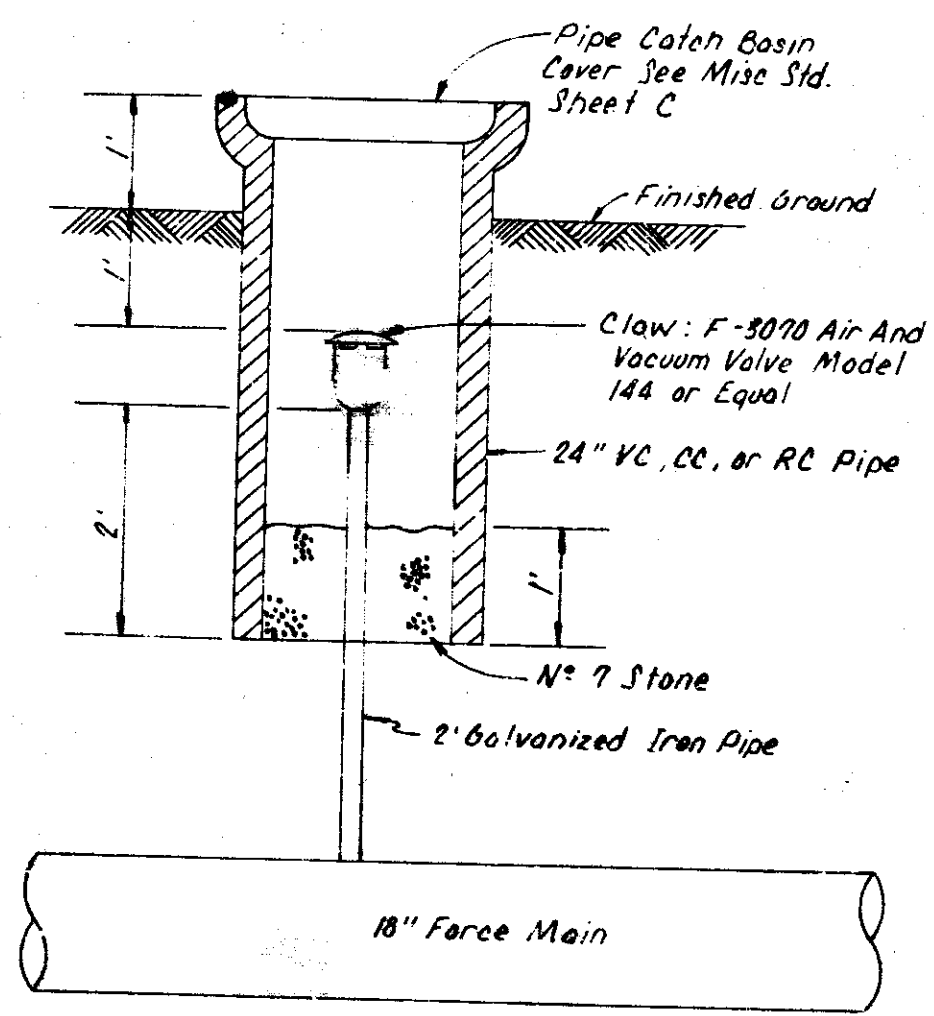
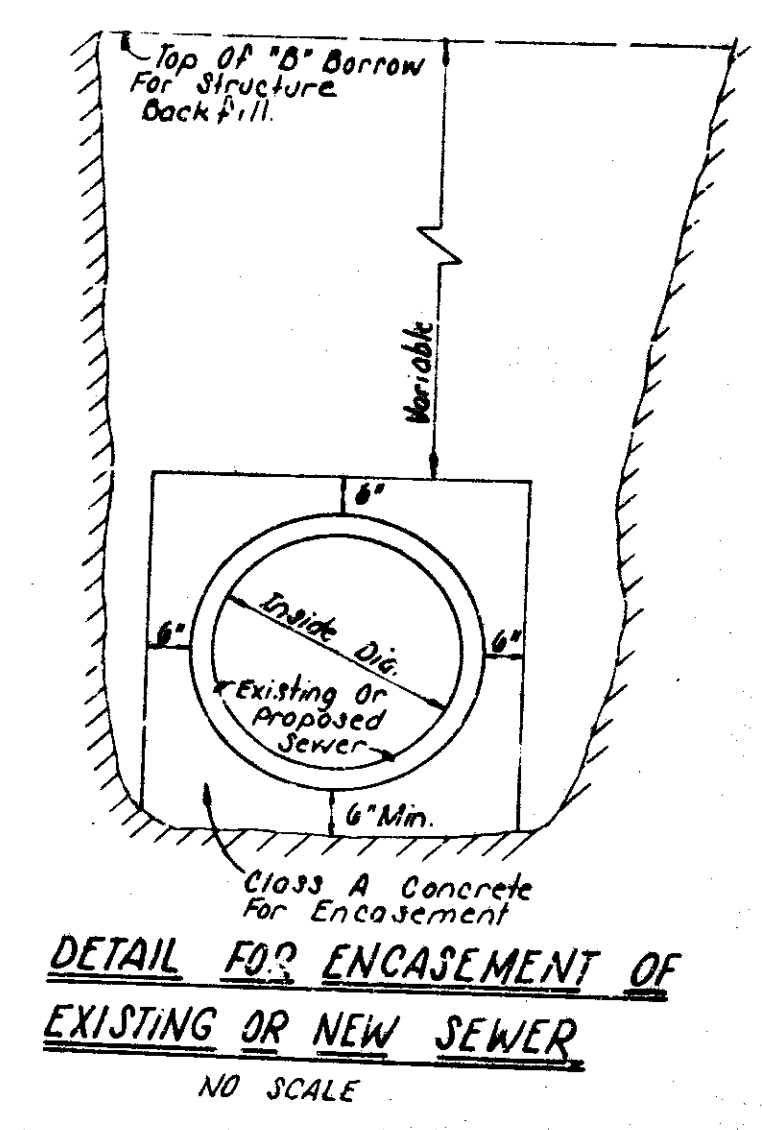
CONNECTION DETAIL
BRIDGE ALUMINUM BARRIER RAIL
TO CONCRETE MEDIAN BARRIER CURB

DETAILS

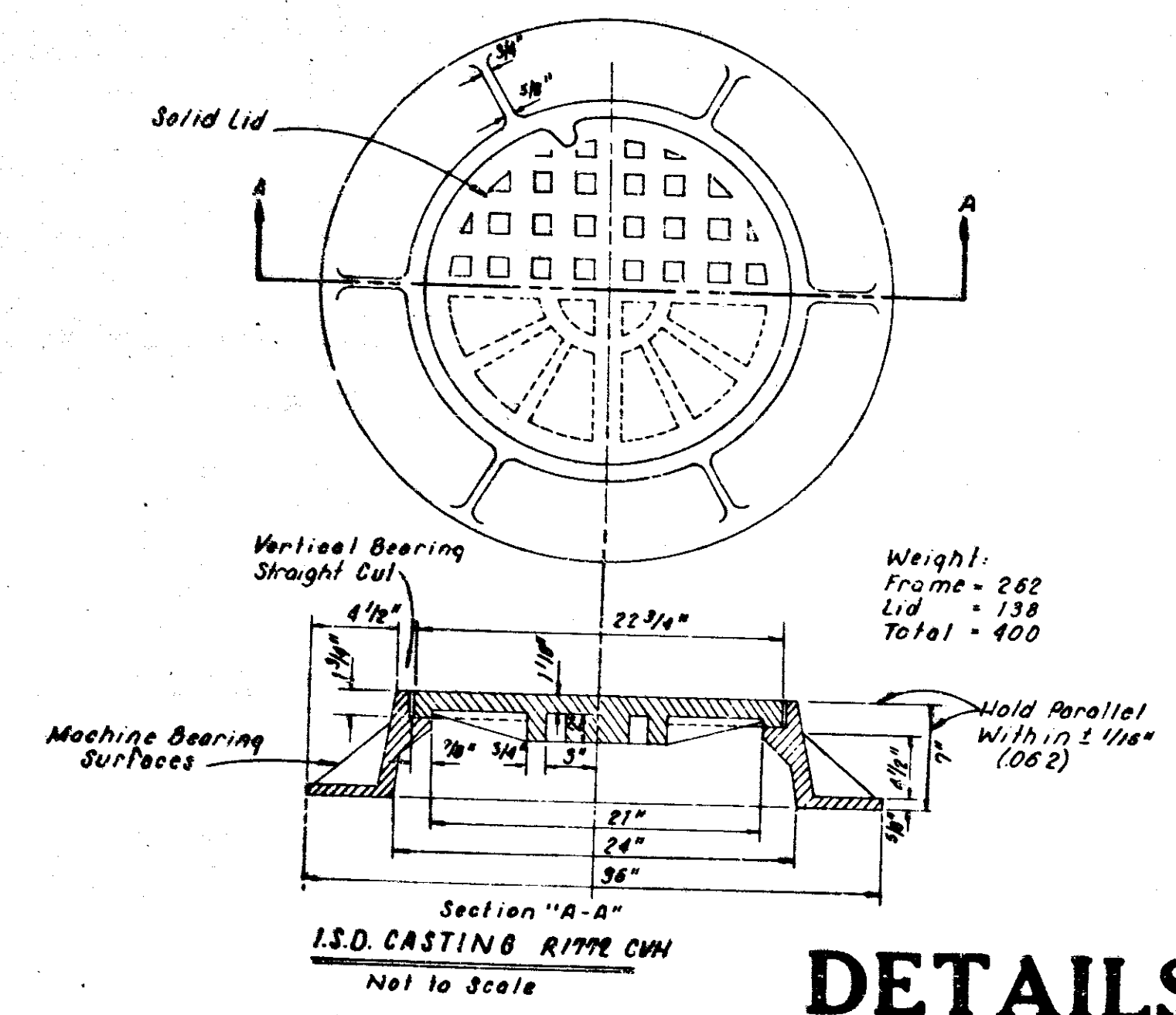
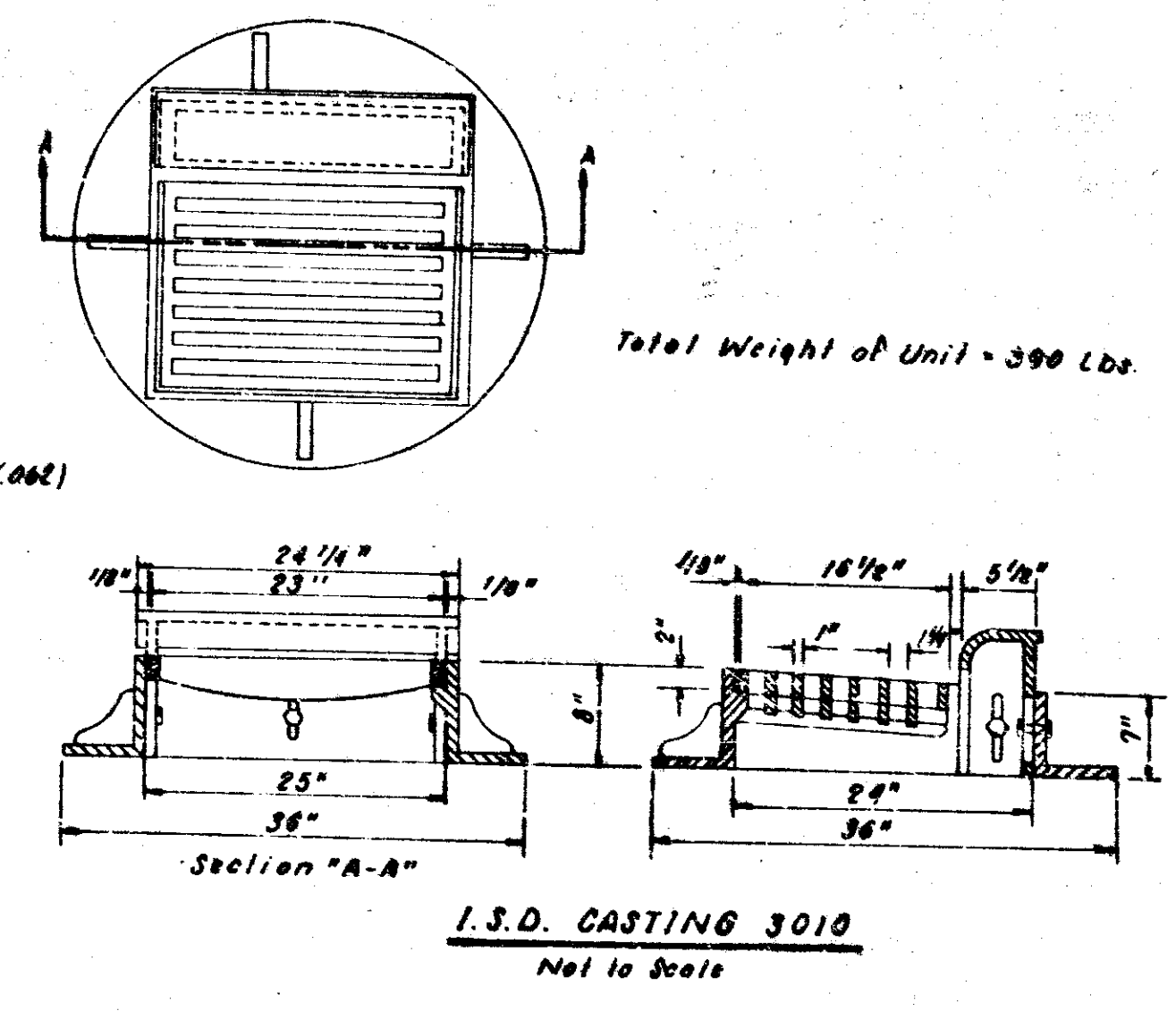
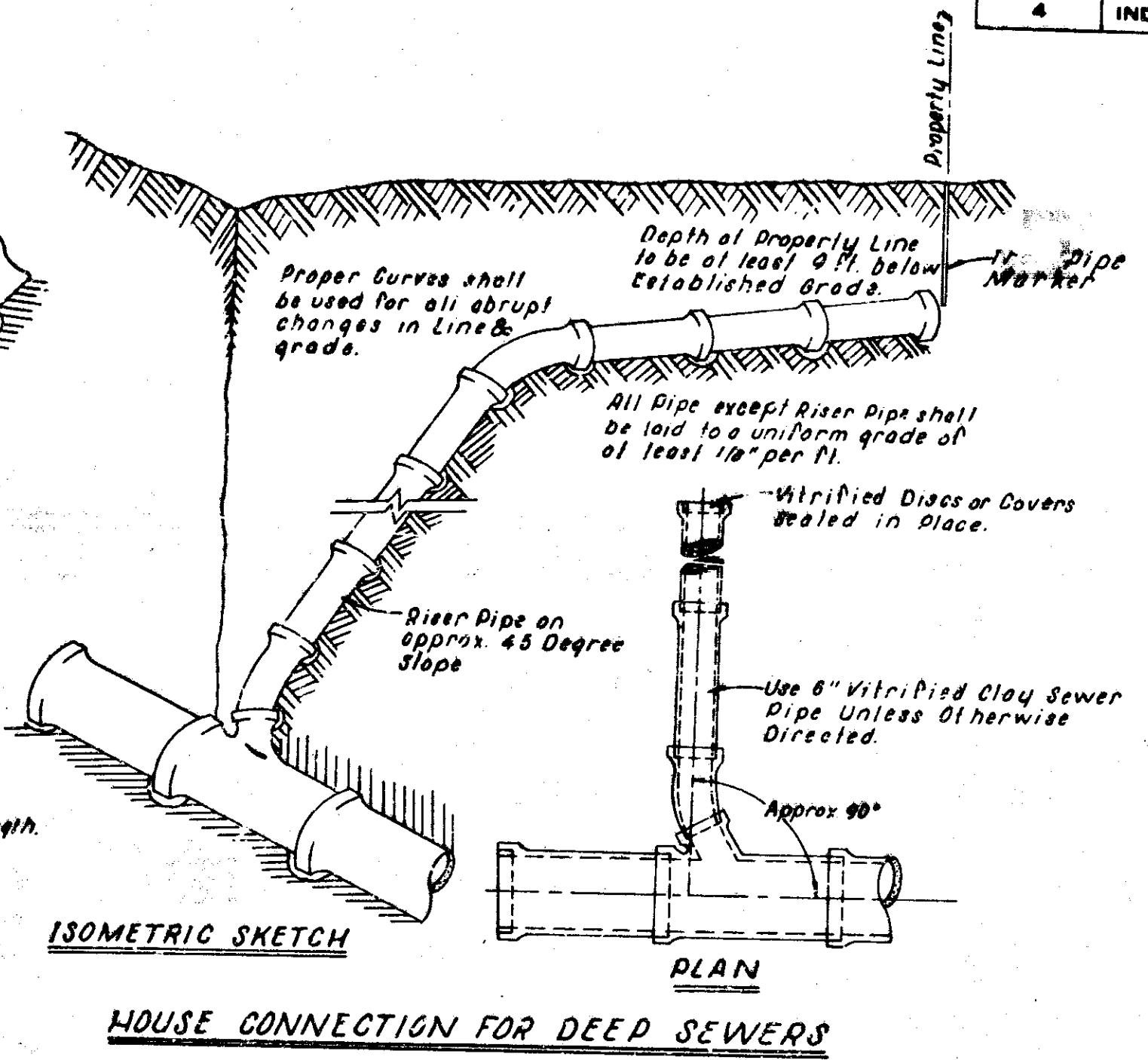
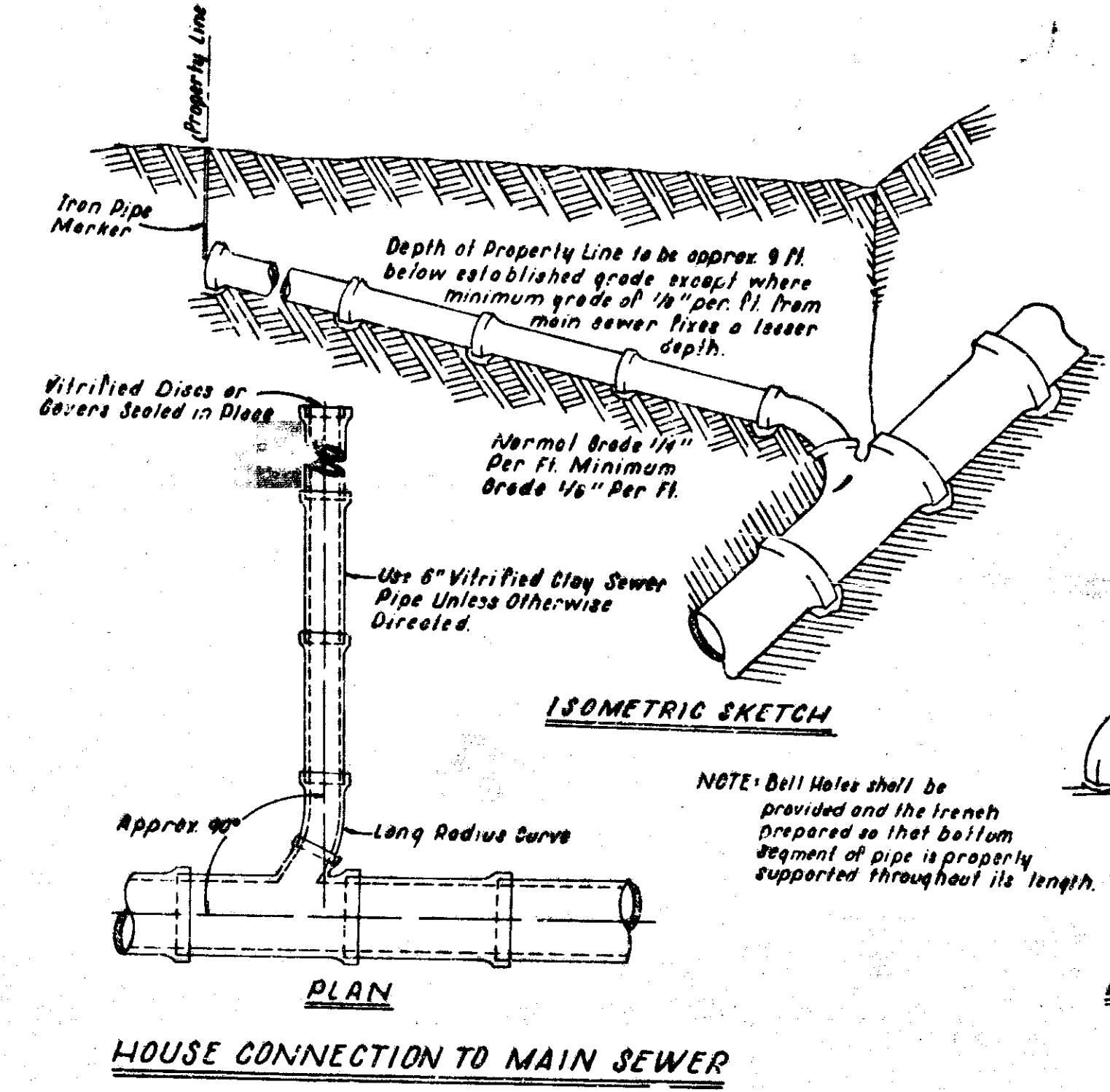
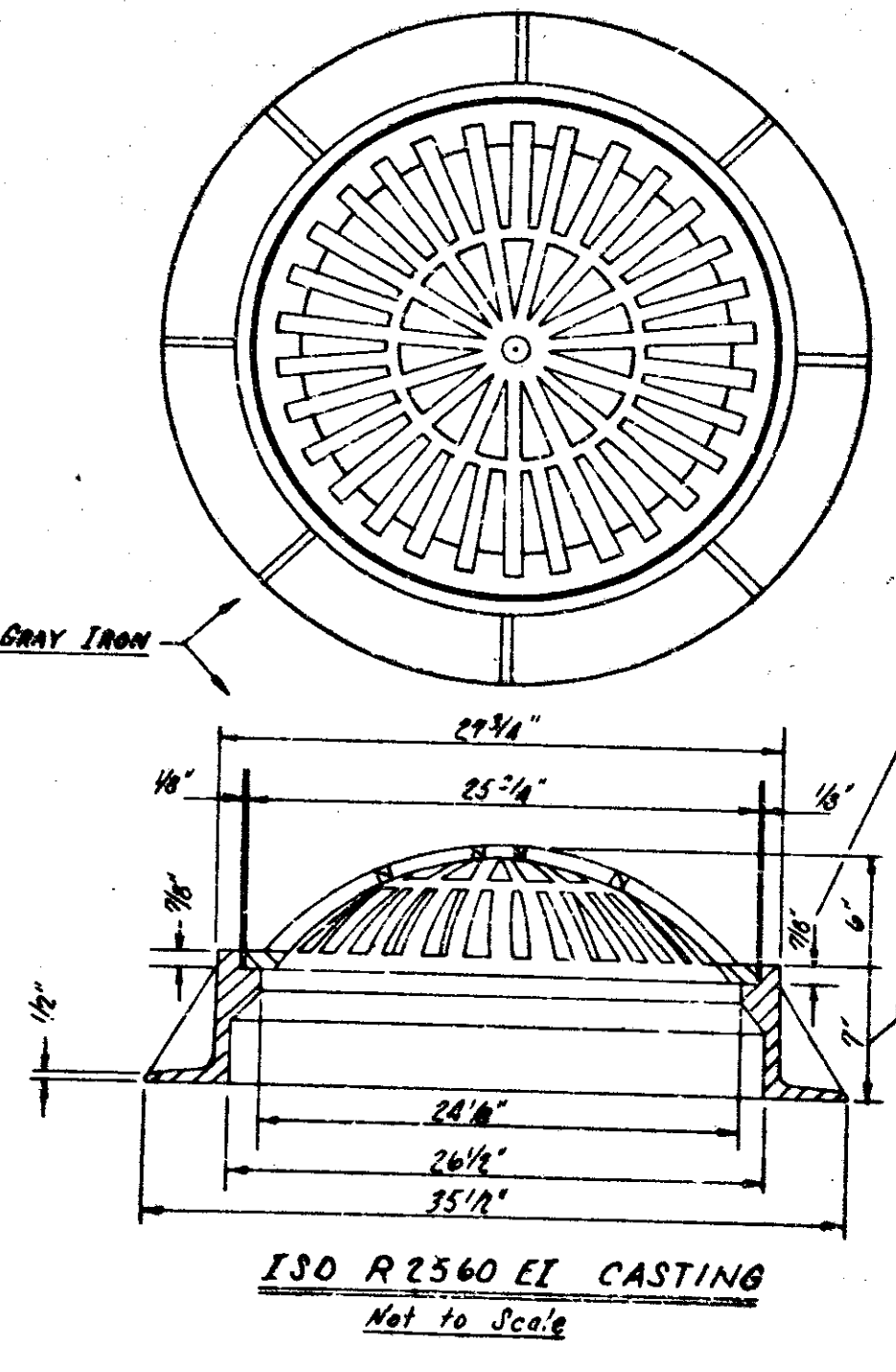
SCALE: 3/4" = 1'-0"



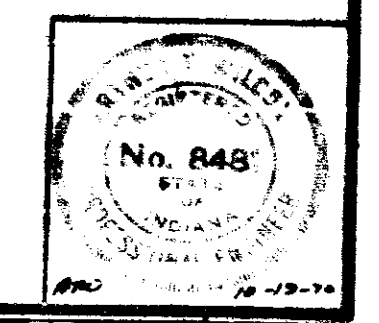
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-70-3(37) 25	1970	21	85



NOTE: Air Vent to be placed at high point of 18" Force Main relocated (Str. 4158E)
No Scale

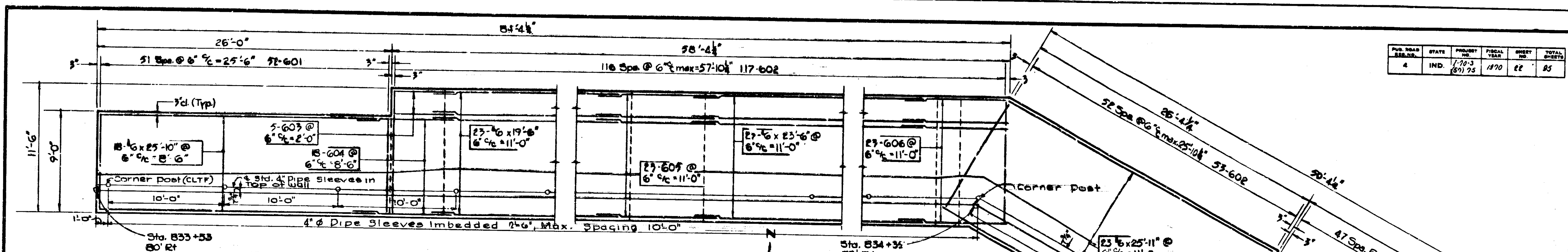


DETAILS OF INDIANAPOLIS SANITARY DISTRICT FACILITIES

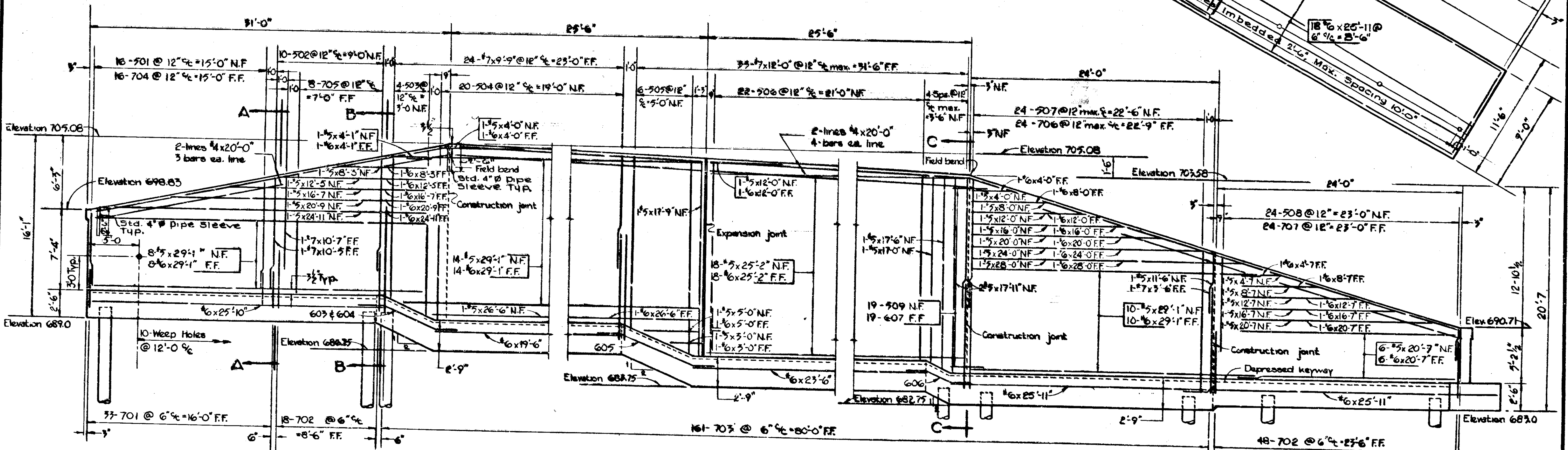


PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
1-70-3(37) 25	7	21	95	

PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-70-3 (61) 75	1970	22	25



FOOTING PLAN
Showing dimensions & horiz. reinf. steel



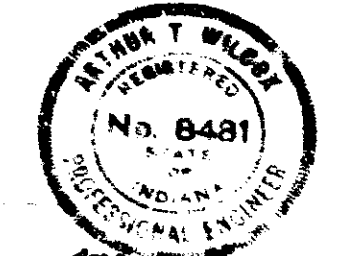
ELEVATION

NOTE:
See Sheet 12 for general notes.
See Sheet 69A for additional details.
See Plan Sheet No. 16

RETAINING WALL DETAILS AT BELMONT
INDIANA STATE HIGHWAY COMMISSION

SCALE: 1/4" = 1'-0"

DESIGNED: DEM
DRAWN: RNL
TRACED: CND



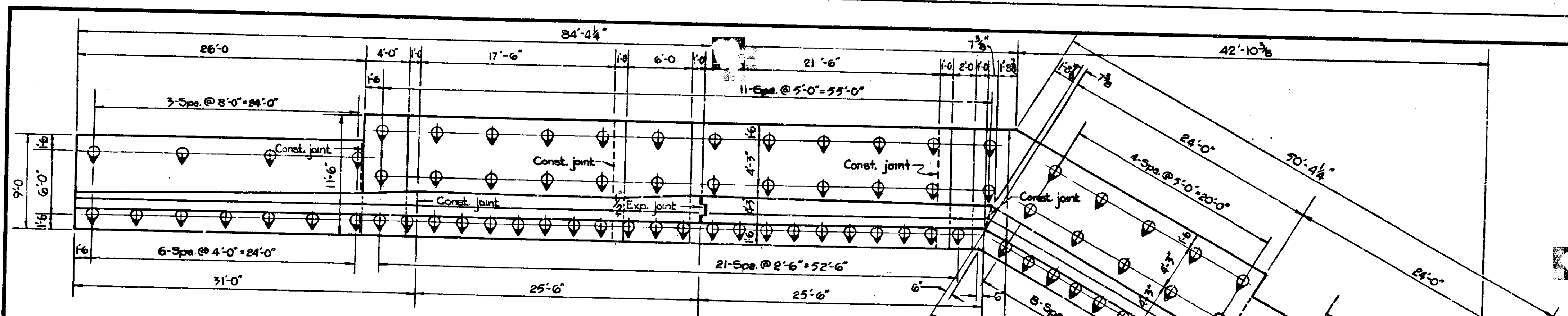
Great Standard Chain Link Fence Posts in Imbedded 4" Pipe Sleeves

PROJECT NO.	LINE	SHEET	DATE	FILE
1-70-3 (61) 75		22		

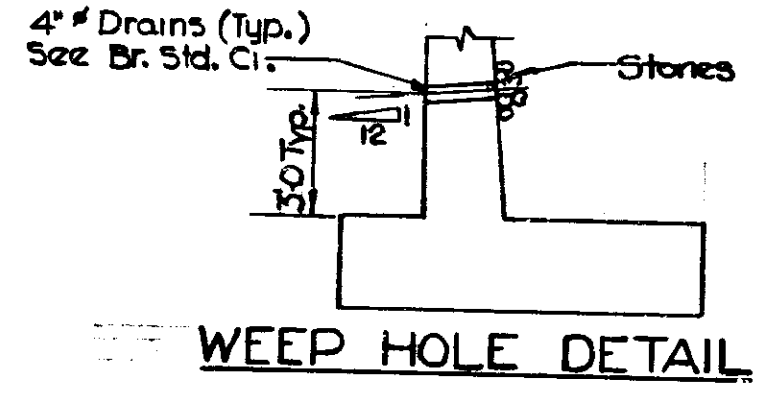
PUR. ROAD	STATE	PROJECT	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-70-3 (27) 75	1970	28	95

BILL OF MATERIALS

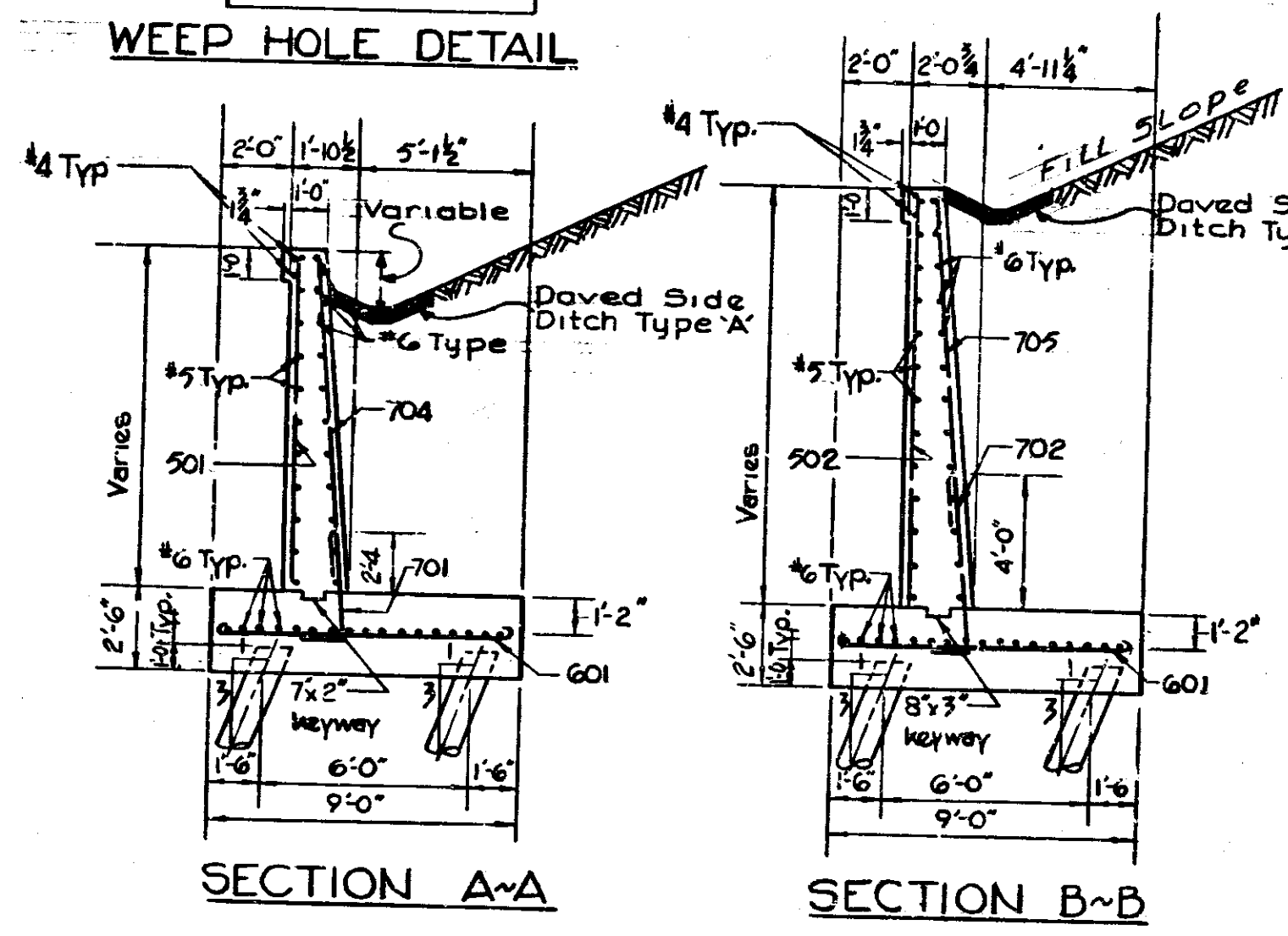
REINFORCING STEEL					
MARK	SIZE	No. Reqd.	LENGTH	WEIGHT	
701	5	2	12-0	17-4	12079
702	5	2	12-0	22-8	
703	5	1	11-6	27-6	
704	5	10	8-7	50-1	
705	5	3	8-3	32-6	
706	5	11	8-0	34-8	
707	5	12	4-7	29-7	
708	5	19	4-1	16-3	
709	5	32	3-8	3-8	
710	5	1	28-0	28-0	
711	5	1	26-6	26-6	
712	5	1	25-11	25-11	
713	5	1	25-10	25-10	
714	5	1	25-2	25-2	
715	5	1	24-11	24-11	
716	5	1	24-0	24-0	
717	5	23	23-6	23-6	
718	5	7	20-9	20-9	
719	5	1	20-7	20-7	
720	5	1	20-0	20-0	
721	5	2	19-6	19-6	
722	5	2	16-7	16-7	
723	5	1	16-0	16-0	
724	5	1	12-7	12-7	
725	5	1	12-0	12-0	
726	5	1	8-7	8-7	
727	5	1	8-3	8-3	
728	5	1	8-0	8-0	
729	5	1	4-7	4-7	
730	5	1	4-0	4-0	
731	5	1	3-0	3-0	



PLAN
Showing concrete dimensions and pile locations



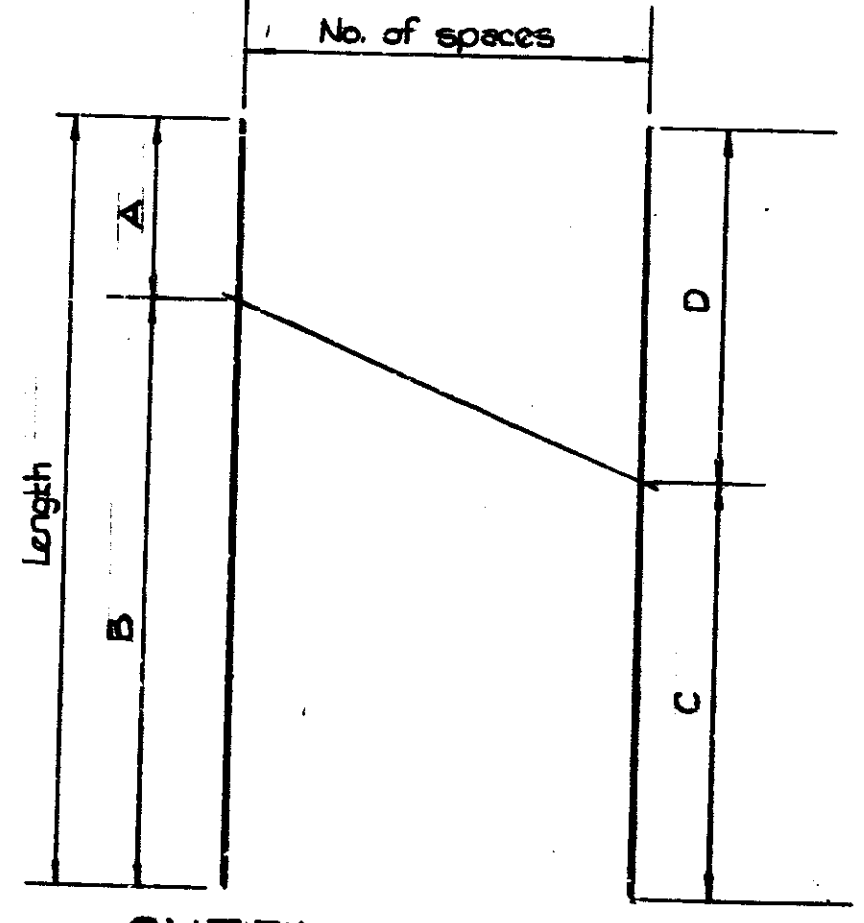
WEEP HOLE DETAIL



SECTION A-A

SECTION B-B

SECTION C-C



CUTTING DIAGRAM
See Table I

TABLE I

Mark	No. of Ops	Dimensions				Length*
		A	B	C	D	
704	7	7-1	10-3	8-9	8-7	17-4
705	3	9-1	10-7	9-11	9-9	19-8
706	11	6-1	12-2	9-3	9-0	18-3
707	11	3-4	9-7	6-7	6-4	12-11
701	7	7-1	10-3	8-9	8-7	17-4
702	4	10-5	12-3	11-5	11-3	22-8
703	1	12-8	14-10	14-1	13-5	27-6
704	9	14-10	14-3	15-1	15-0	50-1
705	2	14-9	17-9	16-6	16-0	32-6
706	10	17-0	17-8	17-4	17-4	34-8
707	11	11-9	17-10	14-11	14-8	29-7
708	11	5-0	11-3	8-3	8-0	16-3

*Noted length cuts 2 bars

BILL OF MATERIALS (CONT.)

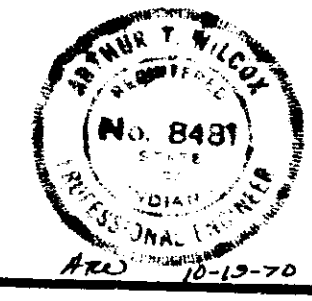
REINFORCING STEEL					
MARK	SIZE	No. Reqd.	LENGTH	WEIGHT	
701	5	2	12-0	17-4	12079
702	5	2	12-0	22-8	
703	5	1	11-6	27-6	
704	5	10	8-7	50-1	
705	5	3	8-3	32-6	
706	5	11	8-0	34-8	
707	5	12	4-7	29-7	
708	5	19	4-1	16-3	
709	5	32	3-8	3-8	
710	5	1	28-0	28-0	
711	5	1	26-6	26-6	
712	5	1	25-11	25-11	
713	5	1	25-10	25-10	
714	5	1	25-2	25-2	
715	5	1	24-11	24-11	
716	5	1	24-0	24-0	
717	5	23	23-6	23-6	
718	5	7	20-9	20-9	
719	5	1	20-7	20-7	
720	5	1	20-0	20-0	
721	5	2	19-6	19-6	
722	5	2	16-7	16-7	
723	5	1	16-0	16-0	
724	5	1	12-7	12-7	
725	5	1	12-0	12-0	
726	5	1	8-7	8-7	
727	5	1	8-3	8-3	
728	5	1	8-0	8-0	
729	5	1	4-7	4-7	
730	5	1	4-0	4-0	
731	5	1	3-0	3-0	

Std. wt. 4" wrought-iron pipe 31.5 LBS/LIN. FT.

NOTE:
See Br. Std. C1 for reinforcing bar notes, 4" drains & placement of stone around drain.
Indicates direction of batter.
All piles to be driven to 35 ton min. bearing.

RETAINING WALL DETAILS AT BELMONT
INDIANA STATE HIGHWAY COMMISSION

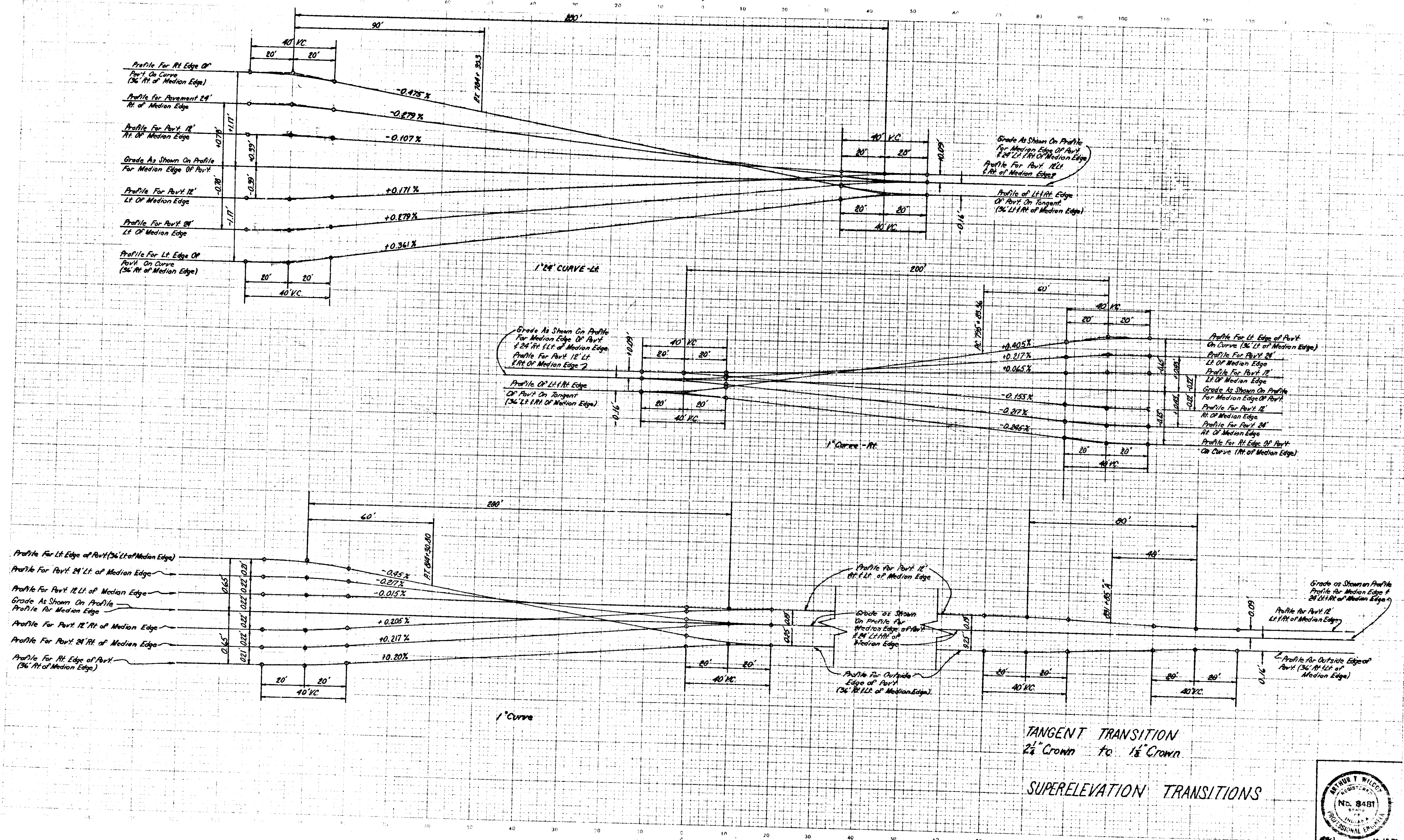
SCALE: 1/4" = 1'-0"
SUBMITTED FOR APPROVAL:



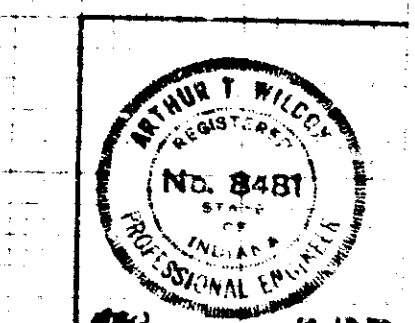
DESIGNED: **DKM** CKD
DRAWN: **RNK** CKD
TRACED: **JK** CKD

601 x 9'-10"
602 x 12'-4"
603 x 6'-3"
604 x 9'-0"
605 x 10'-9"
606 x 5'-2"
607 x 4'-4"
509 x 3'-8"

CROSS SECTIONS
CUT FILL



TANGENT TRANSITION
2 1/2% Crown to 1 1/2% Crown
SUPERELEVATION TRANSITIONS



MAY, 1969

LEVEL BOOK NO.	100	DATE	10-12-69
FIELD BOOK NO.	100	SCALE	1" = 40'
PROJECT NO.	IND. 7-70-859/75	SHEET NO.	24
		TOTAL SHEETS	85
		LINE	

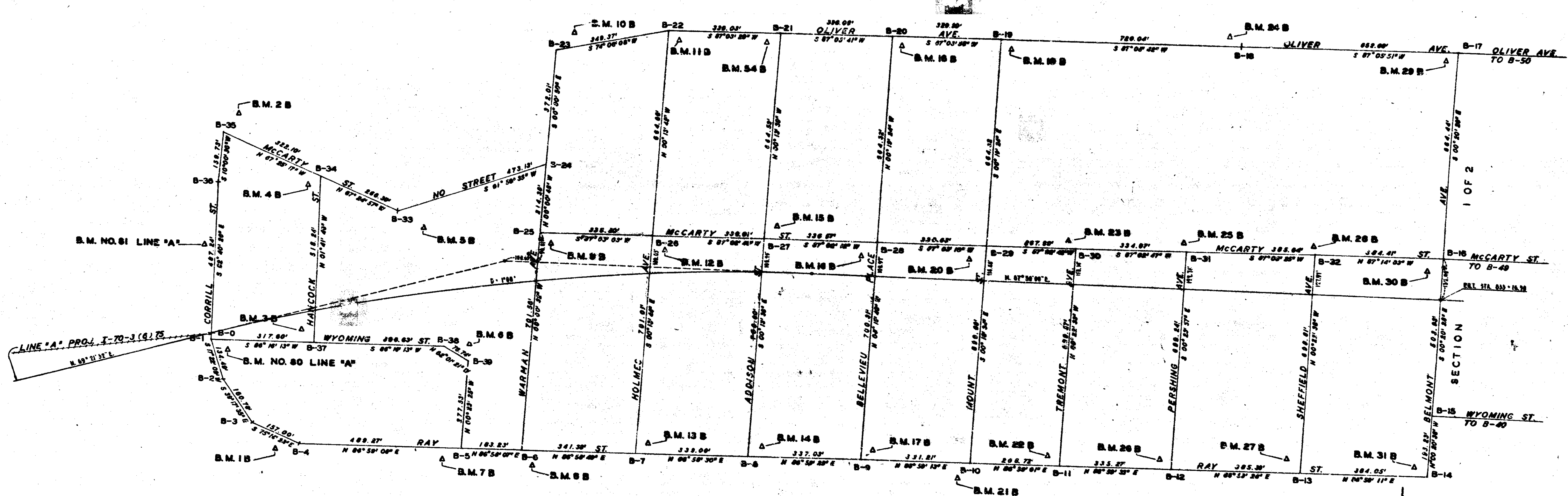
UNDERDRAIN TABLE

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	I-70-3/59/75	1970	25	95

RUN NO.	LOCATION	6" GROUP K" PIPE	6" NON PERF. F.B.C.C.S.	OUTLET	WYES EA.	BENDS EA.	SODDING SYS	DELIN. EA.
1	Sta. 778+30'A (2'-4" Rt.) to Sta. 778+75'A (2'-4" Rt.)	45'	---	Str. No 16 Elev. 715.09				
2	Sta. 778+75'A (2'-4" Rt.) to Sta. 780+98'A (2'-4" Rt.)	220'	---	Str. No 22 Elev. 711.54				
3	Sta. 781+05'A (2'-4" Rt.) to Sta. 785+25'A (2'-4" Rt.)	220'	---	Str. No 26 Elev. 708.02				
4	Sta. 785+25'A (2'-4" Rt.) to Sta. 785+48'A (2'-4" Rt.)	220'	---	Str. No 31 Elev. 704.57				
5	Sta. 785+55'A (2'-4" Rt.) to Sta. 787+63'A (2'-4" Rt.)	210'	---	Str. No 39 Elev. 702.90				
6	Sta. 791+06'A (2'-4" Lt.) to Sta. 793+48'A (2'-4" Lt.)	160'	---	Str. No 45 Elev. 699.97				
7	Sta. 793+55'A (2'-4" Lt.) to Sta. 794+98'A (2'-4" Lt.)	145'	---	Str. No 47 Elev. 699.52				
8	Sta. 795+05'A (2'-4" Lt.) to Sta. 795+98'A (2'-4" Lt.)	95'	---	Str. No 47 Elev. 699.52				
9	Sta. 796+02'A (2'-4" Lt.) to Sta. 796+47'A (2'-4" Lt.)	245'	---	Str. No 51 Elev. 699.91				
10	Sta. 798+52'A (2'-4" Lt.) to Sta. 800+97'A (2'-4" Lt.)	245'	---	Str. No 55 Elev. 703.42				
11	Sta. 801+02'A (2'-4" Lt.) to Sta. 805+47'A (2'-4" Lt.)	245'	---	Str. No 57 Elev. 708.12				
12	Sta. 805+52'A (2'-4" Lt.) to Sta. 804+97'A (2'-4" Lt.)	145'	---	Str. No 61 Elev. 712.82				
13	Sta. 806+65'A (2'-4" Lt.) to Sta. 806+98'A (2'-4" Lt.)	33'	---	Str. No 76 Elev. 715.03				
14	Sta. 807+05'A (2'-4" Lt.) to Sta. 807+48'A (2'-4" Lt.)	245'	---	Str. No 86 Elev. 710.52				
15	Sta. 809+53'A (2'-4" Lt.) to Sta. 811+98'A (2'-4" Lt.)	245'	---	Str. No 90 Elev. 705.52				
16	Sta. 812+05'A (2'-4" Lt.) to Sta. 814+48'A (2'-4" Lt.)	245'	---	Str. No 98 Elev. 700.52				
17	Sta. 814+55'A (2'-4" Lt.) to Sta. 816+98'A (2'-4" Lt.)	245'	---	Str. No 100 Elev. 695.92				
18	Sta. 815+50'A (45'-7" Rt.) to Sta. 816+98'A (45'-7" Rt.)	148'	22'	Str. No 104 Elev. 694.00	1-90°			
19	Sta. 816+00'A (45'-7" Lt.) to Sta. 818+25'A (45'-7" Lt.)	225'	32'	Str. No 108 Elev. 693.90	1-90°			
20	Sta. 817+05'A (2'-4" Lt.) to Sta. 818+25'A (2'-4" Lt.)	120'	---	Str. No 110 Elev. 694.97				
21	Sta. 817+05'A (45'-7" Rt.) to Sta. 818+25'A (45'-7" Rt.)	120'	26'	Str. No 114 Elev. 693.00	1-90°			
22	Sta. 818+27'A (45'-7" Lt.) to Sta. 818+98'A (45'-7" Lt.)	71'	32'	Str. No 108 Elev. 693.90	1-90°			
23	Sta. 818+27'A (2'-4" Lt.) to Sta. 818+97'A (2'-4" Lt.)	70'	---	Str. No 110 Elev. 694.97				
24	Sta. 818+27'A (45'-7" Rt.) to Sta. 818+98'A (45'-7" Rt.)	71'	26'	Str. No 114 Elev. 693.00	1-90°			
25	Sta. 818+02'A (45'-7" Lt.) to Sta. 826+07'A (45'-7" Lt.)	695'	3d'	Str. No 116 Elev. 694.50	1-90°			
26	Sta. 819+02'A (2'-4" Lt.) to Sta. 820+47'A (2'-4" Lt.)	145'	---	Str. No 120 Elev. 695.11				
27	Sta. 819+02'A (45'-7" Lt.) to Sta. 820+48'A (45'-7" Lt.)	146'	20'	Str. No 124 Elev. 693.20	1-90°			
28	Sta. 820+52'A (2'-4" Lt.) to Sta. 825+47'A (2'-4" Lt.)	295'	---	Str. No 128 Elev. 696.50				
29	Sta. 820+52'A (45'-7" Rt.) to Sta. 825+48'A (45'-7" Rt.)	296'	26'	Str. No 132 Elev. 695.00	1-90°			
30	Sta. 825+52'A (2'-4" Lt.) to Sta. 826+47'A (2'-4" Lt.)	295'	---	Str. No 136 Elev. 700.07				
31	Sta. 825+52'A (45'-7" Rt.) to Sta. 825+50'A (45'-7" Rt.)	198'	30'	Ditch Rt Elev. 699.50	1-90°			
32	Sta. 826+22'A (2'-4" Lt.) to Sta. 829+47'A (2'-4" Lt.)	295'	---	Str. No 140 Elev. 703.64				
33	Sta. 829+52'A (2'-4" Lt.) to Sta. 832+22'A (2'-4" Lt.)	270'	---	Str. No 146 Elev. 707.22				
34	Sta. 832+27'A (2'-4" Lt.) to Sta. 832+48'A (2'-4" Lt.)	28'	---	Str. No 153 Elev. 710.27				
TOTALS		6695'	248'			9		1
9 BENDS x 2 LPI / BEND		18						
AGGREGATE		6361 x	0.05 Cys.	LPI = 626.49				

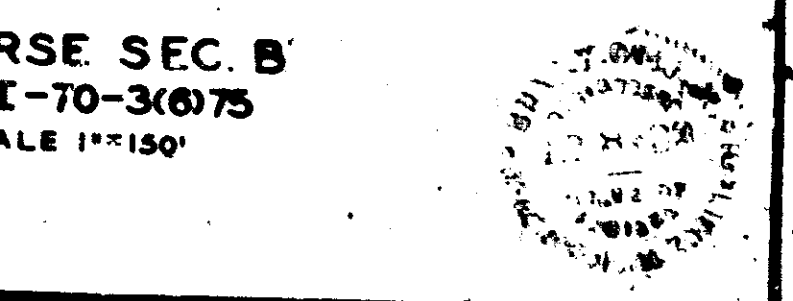


FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	70-387178	1970	26	95



LEGEND
 ▲ BENCH MARK

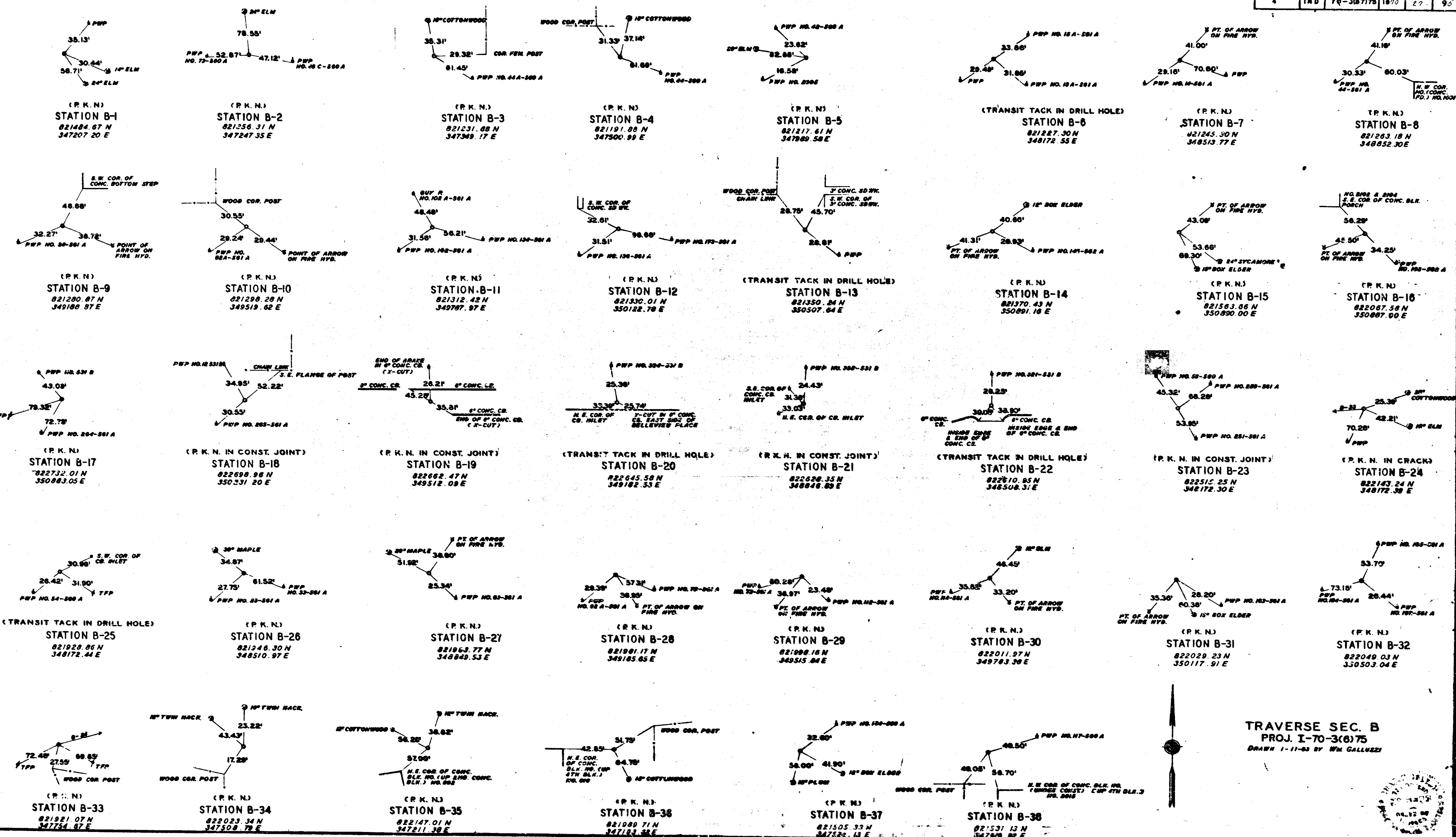
TRAVERSE SEC. B
 PROJ. I-70-3(6)75
 SCALE 1"=150'



November 6, 1961

PROJECT NO.	LIN.	SHEET NO.	TOTAL SHEETS
70-3157178	W	26	95

FEDERAL DISTRICT	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	70-3(6)75	1970	27	95



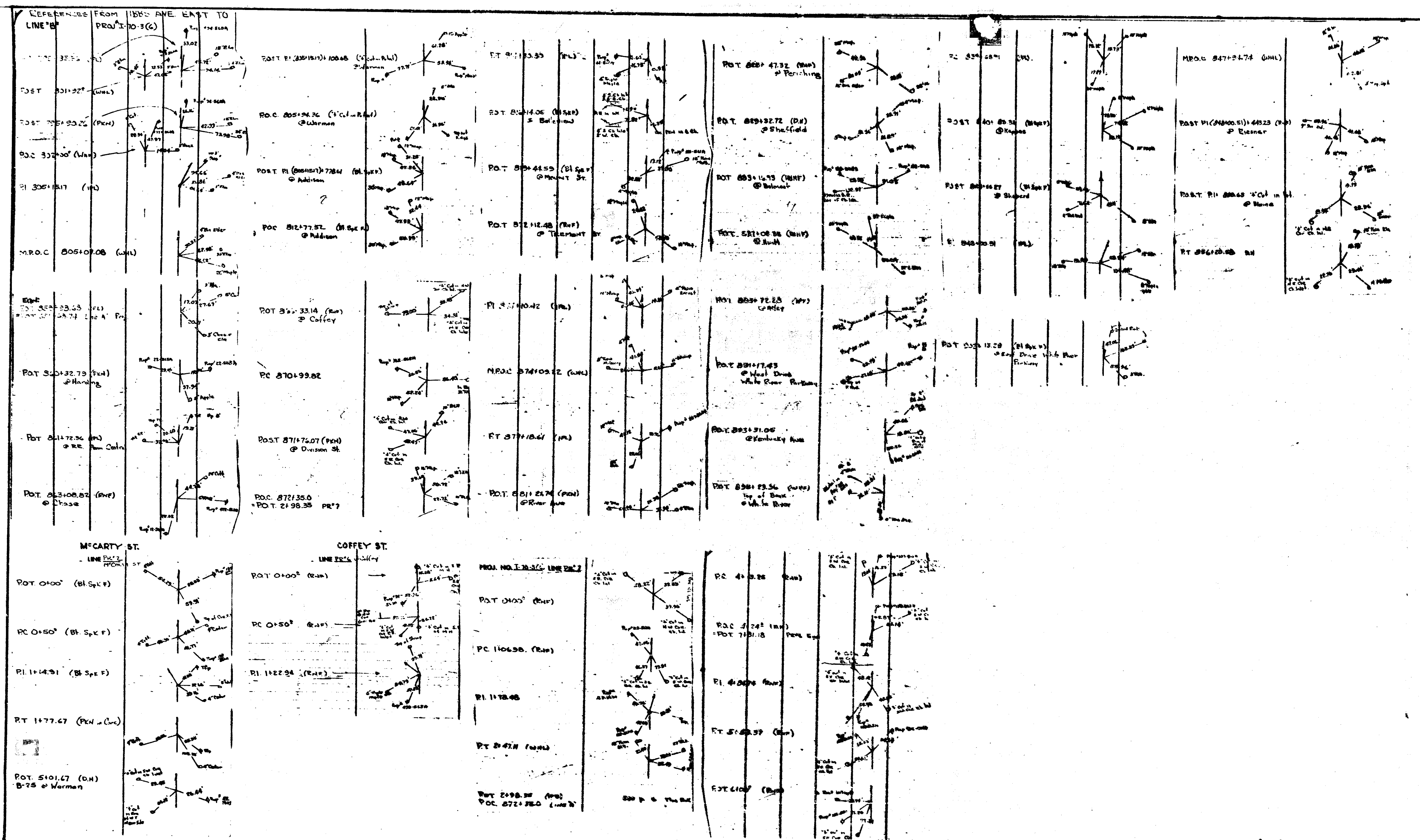
TRAVERSE SEC. B
 PROJ. I-70-3(6)75
 DRAWN 1-11-66 BY Wm. GALLUZZI



November 4, 1966

4/13/67

PROJECT NO.	LIN.	DATE	BY
70-3(6)75	A	11/13/66	Wm. Galluzzi



STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	AVERAGE ELEVATION	FLOW LINE		CONCRETE CLASS "X"	"B" EFFICIENCY	METHOD OF PROTECTING JOINTS	STEEL	ALUM.	PAVED INVERT EACH SECTION	REMARKS	STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	AVERAGE ELEVATION	FLOW LINE		CONCRETE CLASS "X"	"B" EFFICIENCY	METHOD OF PROTECTING JOINTS	STEEL	ALUM.	PAVED INVERT EACH SECTION	REMARKS
							UP	DOWN															UP	DOWN							
							ELEV.	ELEV.															ELEV.	ELEV.							
11	778+25LH	12		FBCCS	50	714.41	696.25				B1	16	1	Connect to Str. No. 12, 2-17" Bands Req'd.	46	783+50RH	12		FBCCS	56	699.30	688.45				B1	16	1	Connect to Str. No. 43, 2-17" Bands Req'd.		
12	778+25LH			Inlet Type T-14		714.41	714.41							Top Casting Elev. = 716.99 Connect to Str. No. 11 & 13	47	785+00LH			Inlet Type S-14			699.50								Connect to Str. No. 43, Casting Elev. = 702.75	
13	778+25LH	12	A		50	714.95	714.41				AI	16		Connect to Str. No. 12 & 14	48	785+00R	12	A		4		699.50	699.45				AI	16		Connect to Str. No. 47 & 49	
14	778+25LH			Inlet Type T-14		714.95	714.95							Casting Elev. = 713.35 Connect to Str. No. 13 & 15	49	785+00RH			Inlet Type T-14			699.45	699.45							Connect to Str. No. 46 & 50, Casting Elev. = 703.75	
15	778+25E	12	A		4	715.00	714.95				AI	16		Connect to Str. No. 14 & 16	50	785+00RH	12		FBCCS	104		699.45	688.75				AI	16	1	Connect to Str. No. 49, 2-17" Bands Req'd.	
16	778+25RH			Inlet Type T-14		715.00	715.00							Casting Elev. = 713.35 Connect to Str. No. 15 & 17	51	786+00LH			Inlet Type S-14			699.85								Connect to Str. No. 52	
17	778+50RH	12	A		50	717.06	715.77				AI	16		Connect to Str. No. 16 & 18	52	786+00E	12	A		4		699.85	699.80				AI	16		Connect to Str. No. 51 & 53	
18	778+50RH			Inlet Type S-14		717.06								Casting Elev. = 713.64 Connect to Str. No. 17	53	786+00RH			Inlet Type S-14			699.80	699.80							Connect to Str. No. 52 & 54	
19	781+00LH	12		FBCCS	50	711.30	693.50				B1	16	1	Connect to Str. No. 20, 2-17" Bands Req'd.	54	786+00RH	12			104		699.80	688.95				AI	16	1	Connect to Str. No. 53, 2-17" Bands Req'd.	
20	781+00LH			Inlet Type T-14		711.30	711.30							Top of Casting Elev. = 713.48 Connect to Str. No. 19 & 21	55	786+50LH															Connect to Str. No. 56
21	781+00LH	12	A		56	711.50	711.50				AI	16		Connect to Str. No. 20 & 22	56	786+50RH	12		FBCCS	116		703.35	699.45				AI	16	1	Connect to Str. No. 55, 2-17" Bands Req'd.	
22	781+00RH			Inlet Type S-14		711.50								Casting Elev. = 719.28 Connect to Str. No. 21	57	801+00LH			Inlet Type S-14			703.05								Connect to Str. No. 58, Casting Elev. = 711.42	
23	783+25LH	12		FBCCS	50	707.59	690.75				B1	16	1	Connect to Str. No. 24, 2-17" Bands Req'd.	58	801+00E				4		708.05	708.00				AI	16		Connect to Str. No. 57 & 59	
24	783+25LH			Inlet Type F-14		707.59	707.59							Casting Elev. = 709.97 Connect to Str. No. 23 & 25	59	801+00RH			Inlet Type T-14			708.00	708.00							Connect to Str. No. 58 Hill Casting Elev. 711.42	
25	783+25LH	12	A		56	707.95	707.99				AI	16		Connect to Str. No. 24 & 26	60	801+00RH	12		FBCCS	126		708.00	699.95				AI	16	1	Connect to Str. No. 59, 2-17" Bands Req'd.	
26	783+25RH			Inlet Type S-14		707.95								Connect to Str. No. 25, Casting Elev. = 711.32	61	805+50LH			Inlet Type S-14			712.75								Connect to Str. No. 60, Casting Elev. = 716.12	
27	785+50LH			Inlet Type S-14		705.19								Connect to Str. No. 28	62	805+50RH	12		FBCCS	144		712.25	690.45				AI	16	1	Connect to Str. No. 61, 2-17" Bands Req'd.	
28	785+50LH	12	A		50	705.19	704.99				AI	16		Connect to Str. No. 27 & 29	63	805+50RH	60		Horizontal Elliptical RC Pipe ASTM C-507-66-38	100	12-14	690.20	690.65	1.51	110	B				Connect to Str. No. 62, Cone Anchor Req'd At Outlet	
29	785+50LH			Inlet Type F-14		704.99	704.99							Connect to Str. No. 28 & 30, Casting Elev. = 707.27	64	805+50RH			Inlet Type S-14			715.87								Connect to Str. No. 65, Casting Elev. = 718.45	
30	785+50E	12	A		4	704.99	704.90				AI	16		Connect to Str. No. 29 & 30	65	805+50E	12	A		4		715.80	715.80				AI	16		Connect to Str. No. 64 & 66	
31	785+50RH			Inlet Type T-14		704.90	704.50							Connect to Str. No. 30 & 32, Casting Elev. 707.87	66	805+50RH			Inlet Type T-14			715.80	715.80							Connect to Str. No. 65 & 67, Casting Elev. = 708.45	
32	785+50RH	12	A		50	704.50	704.30				AI	16		Connect to Str. No. 31 & 33	67	805+50RH	12	A		50		715.80	715.03				AI	16		Connect to Str. No. 66 & 68	
33	785+50RH			Inlet Type T-14		704.30	704.30							Connect to Str. No. 32 & 34, Casting Elev. = 707.85	68	805+50RH			Inlet Type T-14			715.03	699.50							Connect to Str. No. 67 & 69, Casting Elev. 717.61	
34	785+50RH	12		FBCCS	96	704.30	679.70				B1	16	1	Connect to Str. No. 33, 2-17" Bands Req'd.	69	805+50RH	12		FBCCS	64		715.03	699.50				B1	16		Connect to Str. No. 68 & 70, 2-17" Bands Req'd.	
35	787+50LH			Inlet Type S-14		703.35								Connect to Str. No. 34, Casting Elev. = 705.93	70	805+50RH			Catch Basin Type E-7			699.50	699.50							Connect to Str. No. 69 & 71, Casting Elev. = 704.50	
36	787+50LH	12	A		60	703.35	703.15				AI	16		Connect to Str. No. 35 & 37	71	805+50RH	12		RC Pipe	23		699.50	699.25				B1			Connect to Str. No. 70 & 72	
37	787+50LH			Inlet Type T-14		703.15	703.15							Connect to Str. No. 36 & 38, Casting Elev. = 706.19	72	805+50RH	12		Manhole Type E-4			690.80	690.80							Connect to Str. No. 63, 71, 73	
38	787+65E	12	A		4	703.15	703.05				AI	16		Connect to Str. No. 37 & 39	73	805+50RH	60		Horizontal Elliptical RC Pipe ASTM C-507-66-38	175	10-12	691.06	691.06	2.51	B					Connect to Str. No. 72 & 74	
39	787+65RH			Inlet Type T-14		703.05	702.85							Connect to Str. No. 38 & 40, Casting Elev. = 706.19	74	805+50RH	6		FBCCS	130							AI	16			Connect to Str. No. 73 & 75
40	787+65RH	12	A		50	702.85	702.65				AI	16		Connect to Str. No. 39 & 41	75	806+50RH	6		FBCCS	130							AI	16			Connect to Str. No. 74 & 76, Casting Elev. = 717.22
41	787+65RH			Inlet Type T-14		702.65	702.65								Connect to Str. No. 40 & 42, Casting Elev. = 705.75	76	807+00LH			Inlet Type S-14			714.95								Connect to Str. No. 75, Casting Elev. = 718.33
42	787+65RH	12		FBCCS	84	702.65	679.25				B1	16	1	Connect to Str. No. 41, 2-17" Bands Req'd.	77	807+00E	12	A		4		714.95	714.90				AI	16		Connect to Str. No. 76 & 78	
43	793+50LH			Inlet Type S-14			699.90							Connect to Str. No. 44, Casting Elev. = 703.27	78	807+00RH			Inlet Type T-14			714.90	714.90							Connect to Str. No. 77 & 79, Casting Elev. = 718.33	
44	793+50E	12	A		4	699.90	699.70				AI	16		Connect to Str. No. 43 & 45	79	807+00RH	12	A		50		714.90	714.64				AI	16		Connect to Str. No. 78 & 80	
45	793+50RH			Inlet Type T-14		699.70	699.70							Connect to Str. No. 44 & 46, Casting Elev. = 703.27	80	806+75RH			Inlet Type T-14			714.64	714.64							Connect to Str. No. 79 & 81, Casting Elev. = 717.22	
45A	793+50RH	12	A		50	699.70	699.30				AI	16		Connect to Str. No. 45 & 47, Casting Elev. = 702.75																	
45B	793+50RH			Inlet Type T-14		699.30	699.30							Connect to Str. No. 46 & 48																	

Note: A 1 Refers to Backfill Methods A & B As Shown on Misc. Std. Sheet N

- | | |
|---|--|
| F.B.C.C.S/P.1. ---FULLY BITUMINOUS COATED CORRUGATED STEEL WITH PAVED INVERT. | F.B.C.C.S.A./P.1. ---FULLY BITUMINOUS COATED CORRUGATED STEEL ARCH WITH PAVED INVERT. |
| F.B.C.C.A.A./P.1. ---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ALLOY WITH PAVED INVERT. | F.B.C.C.A.A./P.1. ---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. |
| C.S. ---CORRUGATED STEEL. | F.B.C.C.A.A. ---FULLY BITUMINOUS COATED CORRUGATED ALUMINUM ARCH. |
| C.A.A. ---CORRUGATED ALUMINUM ALLOY. | C.S.A. ---CORRUGATED STEEL ARCH. |
| S.P.S. ---STRUCTURAL PLATE STEEL. | C.A.A. ---CORRUGATED ALUMINUM ALLOY ARCH. |
| | S.P.S.A. ---STRUCTURAL PLATE STEEL ARCH. |

STRUCTURE DATA

Table with columns for Structure Number, Location, Size, Group, Description, Length, Invert, Cover, Flow Line (Up/Down), Concrete Class, Invert, Material, Steel, Alum., and Remarks. It contains two main sections of data, one on the left and one on the right, both starting with structure numbers around 81 and 121 respectively.

Note: A1 } Refers To Backfill Method A & B As Shown on Misc. Std. Sheet N

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.
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.
C.S.A. --- CORRUGATED STEEL ARCH.
C.A.A. --- CORRUGATED ALUMINUM ALLOY ARCH.
S.P.S.A. --- STRUCTURAL PLATE STEEL ARCH.

MARCH, 1968

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	AVERAGE DEPTH OF EXCAVATION	COVER	FLOW LINE		CONCRETE CLASS	2" BARR	METHOD OF BACKFILL	THICKNESS	STEEL	ALUM.	QUANTITY EACH SECTION	REMARKS
								UP STREAM ELEV.	DOWN STREAM ELEV.								
156	832-257A	12		FBCCS	112		1.5'	710.20	699.00							1	Connect to Str. No. 155, 2-17 Band's Right.
157	832-149	6		FBCPCS	140												
158	833-297A	8		VC Pipe	44	6-3		692.40	687.20								Connect to Str. No. 158, 17-18 in Belmont Ave. Pump Connection to Be Made in Future Contract.
159	833-457A			Inlet Type F-P				692.40	692.40								
160	833-257A	12	A		85	0-2		692.40	689.11								Connect to Str. No. 158, 1-160 Const. Pump plug at inlet and Connect to Str. No. 159, 4-2
161	833-85	6		FBCPCS	140												
162	834-30			Manhole Type A-4				689.11	689.11								Connect to Str. No. 160, 1-63
163	834-30A	12	A		82	0-2		689.11	685.16								Const. Pump plug at outlet and @ Str. 833-200, 170 ft. Connect to Str. No. 162
63A	700 702	15		FBCCS	44	-		700.20	700.00							2	

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

Note: A1 Refers To Backfill Method A Shown On Misc. Std. Sheet N

INDIANAPOLIS SANITARY DISTRICT STRUCTURE DATA

Rev. 1-28-71 Str. No. 502 (allows added)

STRUCTURE NUMBER	LOCATION	SIZE INCHES	GROUP	DESCRIPTION	LENGTH FEET	AVERAGE EXCAVATION	COVER	FLOW LINE			CONCRETE CLASS "A" CU. YDS.	"B" BURTON CU. YDS.	METHOD OF BEDDING MISC. STD. INVERT	STEEL TRUSS INVERT	ALUM. INVERT	VERT. INVERT EACH SECTION	REMARKS
								UP STREAM ELEV.	DOWN STREAM ELEV.	DOWN STREAM							
501	1150 PR #2			Air Vent												Connect to Str. No. 302. See Detail And Special Provisions	
502	1150 20th St. 5402.5 (11th)	18"		Mechanical Joint Cast Iron Pipe A-3010 Req'd	554'	9-10	7	689.80	684.60		108	B				Connect to Str. No. 501. Connect to Str. No. 503 7/8-4" 20' 100 Above Inv. of Exist. 5.9" Sewer	
503	5402.5 PR #2			Manhole Type "F" 1772 CVH Req'd				684.60	689.80							Connect to Str. No. 502 7/8-9" Brick Sewer in Place	
504	805+30 E	18"		Seal Pipe in Place						0.2							
505	805+87 Rt.			Existing Manhole						0.2						Seal 18" Pipe from North West	
506	805+67 Rt.			Encase Existing 5'-9" Brick Sewer	24'					25.0*						Encase 12" on Each Side of Str. No. 75	
507	809+50 Lt.			Existing Manhole					689.06							Connect to Str. No. 508	
508	809+51.6 E	12"		E.S.V.C. Pipe	500'	12-14	25	689.06	687.62		202	A				Connect to Str. No. 505 & 509. Encase 10" on Each Side of Str. No. 85	
509	809+36 Rt.			Manhole Type "C" R-1772 CVH Req'd				687.62	687.62							Connect to Str. No. 508	
510	812+90 Lt.			Existing Manhole				687.50	687.50							Connect to Str. No. 511	
511	812+77	24"		V.C. Pipe Req'd	214'	12-14	19	687.50	686.75	5.5*	279	B				Connect to Str. No. 510 & 513. Encase 10" on Each Side of Str. No. 92	
512	812+75 Rt.			Manhole Type "C" R-1772 CVH Req'd				686.75	686.75							Connect to Str. No. 511 & 514 Sewer in Place	
513				NOT USED													
514				NOT USED													
515				NOT USED													
516				NOT USED													
517	816+05 Lt.			Existing Inlet						0.2	3					Remove Inlet & Seal 15" Pipe in Place	
518	816+55 Lt.			Existing Inlet						0.4	3					Remove Inlet & Seal 2-15" Pipes in Place	
519	816+20 Lt.			Existing Manhole				687.50	687.50							Connect to Str. No. 520	
520	816+14 E	12"		ESVC Pipe Req'd	294'	8-10	12	688.81	687.50	2.8*	201	B				Connect to Str. No. 519 & 521. Encase 10" on Each Side of Str. No. 97	
521	816+10 Rt.			Manhole Type "C" R-1772 CVH Req'd				688.81	688.81							Connect to Str. No. 522, 523, 525 & 72 Invert in Place	
522	815+96 Rt.			Catch Basin Type A-3010 Req'd					694.57							Connect to Str. No. 523	
523	815+96 Rt.	12"		ESVC Pipe Req'd	14'			694.57	691.50							Connect to Str. No. 521 & 522	
524	816+27 Rt.			Catch Basin Type A-3010 Req'd					694.57							Connect to Str. No. 525	
525	816+27 Rt.	12"		ESVC Pipe Req'd	14'			694.57	691.50							Connect to Str. No. 521 & 524	
526	819+40 Rt.			Existing Manhole				688.50	688.50							Connect to Str. No. 527	
527	819+45 E	12"		ESVC Pipe Req'd	266'	10-12	10	688.98	688.50	2.8*	186	B				Connect to Str. No. 526 & 528. Encase 10" on Each Side of Str. No. 127	
528	819+40 Rt.			Manhole Type "C" R-1772 CVH Req'd				688.98	688.98							Connect to Str. No. 527, 529 B, 529 D & 12" Invert in Place	
528A	819+30 Rt.			Catch Basin Type A-2560 Req'd					697.27							Connect to Str. No. 528 B	
528B	819+30 Rt.	12"		ESVC Pipe Req'd	18'			697.27	694.50							Connect to Str. No. 528 & 528A	
528C	819+50 Rt.			Catch Basin Type A-2560 Req'd					697.27							Connect to Str. No. 528 D	
528D	819+50 Rt.	12"		ESVC Pipe Req'd	18'			697.20	694.50							Connect to Str. No. 528 & 528 C	
529	819+80 Lt.			Existing Inlet												No Change Req'd	
530	827+05 Lt.			Existing Inlet						0.1	5					Remove Inlet & Seal 12" Pipe in Place	

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.
 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.

* Concrete Class "A" For Encasement

ESTIMATE OF QUANTITIES (CON'T.) STRUCTURE SUMMARY

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	1-703(7)75	1970	35	75

KIND	SIZE	CIRCULAR PIPE LINEAL FEET																						
		4"	6"	8"	10"	12"	15"	18"	20"	30"	36"													
GAGE STRUCT. PLATES STEEL	TOP & SIDES																							
	BOTTOM																							
	TOP & SIDES																							
	BOTTOM																							
GROUP A																								
GROUP B																								
GROUP C																								
GROUP D																								
GROUP E																								
RC Exc 6" to 8"																								
RC Exc 8" to 10"																								
RC Exc 10" to 12"																								
RC Exc 12" to 15"																								
RC Exc 15" to 18"																								
RC Exc 18" to 20"																								
RC Exc 20" to 30"																								
RC Exc 30" to 36"																								
GROUP F																								
GROUP G																								
REINFORCED CONCRETE																								
EXTRA STRENGTH REINFORCING CONCRETE																								
HEAVY DUTY REINFORCING CONCRETE																								
VITRIFIED CLAY CULVERT																								
CORR. STEEL																								
VITRIFIED CLAY SEWER																								
FULLY BITUM. COATED CORR. STEEL																								
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT																								
FULLY BITUMINOUS COATED PERFORATED CORR. STEEL																								
DRAINTILE CLASS STANDARD																								
DRAINTILE CLASS EXTRA																								
DRAINTILE CLASS HEAVY DUTY																								

QUANTITIES FOR I.S.D. STRUCTURES

ITEMS	QUAN.
Manhole Type "A" 8" R-1772 CVH	7 Ea.
Manhole Type "F" R-1772 CVH	1 Ea.
Catch Basin Type "A" 30" 10	4 Ea.
Catch Basin Type "A" 25" 10	2 Ea.
Pipe E.V.C. 18"	79
Pipe E.V.C. 8" to 12" Aver. Excav. "B" Bedding 12"	754 LFT.
Pipe E.V.C. 10" to 12" Aver. Excav. "B" Bedding 12"	510 LFT.
Pipe E.V.C. 12" to 14" Aver. Excav. "A" Bedding 12"	500 LFT.
Pipe E.V.C. 12" to 14" Aver. Excav. "A" Bedding 13"	280 LFT.
Pipe V.C. 18" to 14" Aver. Excav. "B" Bedding 24"	214 LFT.
Ar Vent	1 Ea.
Proc. C.I. (M.J.) 12" - Class 25 - 9'-10" Aver. Excav. "B" Bedding	354 LFT.
Concrete Class "A" for Encasement	32.7 CYS.
Concrete Class "A" for Structures	14.0 CYS.
3" Barrow	1408 CYS.
Catch Basin Type "A" W/Head 9' 1772 Grated CVH	
SEWER REMOVAL 0' TO 3' LFT	100
SEWER REMOVAL 3' TO 10' LFT	100
SEWER REMOVAL 10' TO 15' LFT	100
SEWER REMOVAL 15' TO 20' LFT	100
SEWER REMOVAL 20' TO 25' LFT	100

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				
GAGE STRUCT. PLATES STEEL	TOP & SIDES																							
	BOTTOM																							
	TOP & SIDES																							
	BOTTOM																							
GROUP G-																								
GROUP G-																								
GROUP G-																								
GROUP H-																								
GROUP H-																								
CORR. STEEL PIPE ARCH																								
STRUCT. PLATE STEEL PIPE ARCH																								
BIT. COAT CORR. STEEL PIPE ARCH																								
BIT. COAT CORR. STEEL PIPE ARCH WITH PAVED INVERT																								
REINF. ELLIPTICAL CONCRETE																								
REC "B" BEDDING Exc 6" to 8"	200																							
REC "B" BEDDING Exc 8" to 10"	700																							
REC "B" BEDDING Exc 10" to 12"	500																							
REC "B" BEDDING Exc 12" to 14"	100																							

PIPE GROUP "R" FOR UNDERDRAINS	6"	0022	LIN. FT.
PIPE FULLY BIT. COATED NON PERFORATED CORR. STEEL (GAGE 18")	6"	248	LIN. FT.
AGGREGATE FOR UNDERDRAINS		626	CYS.

ITEM	UNIT	QUANTITY
CONCRETE CLASS "A" IN STRUCTURES	CYS.	1.37
REINFORCING STEEL FOR STRUCTURES	LB	
CONCRETE CLASS "A" FOR INTEGRAL CURB WALK	CYS.	

INLETS				CATCH BASIN	
TYPE	EACH	TYPE	EACH	TYPE	EACH
14	2			1-7	8
18	2			2-7	2
24	1				

MANHOLES		PIPE CATCH BASINS		RECONSTRUCTED STRUCTURE	
TYPE	EACH	SIZE	EACH	MANH. CATCH BASIN	LINEAL INLET
A-1	2				
A-2	2				
A-3	1				

AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CASTINGS ADJUSTED TO GRADE			REINF. CONCRETE SPRING BOXES		
TYPE	EACH	TYPE	EACH	TYPE	EACH

CASTINGS FURNISHED AND ADJUSTED TO GRADE			
TYPE	EACH	TYPE	EACH

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

PIPE END SECTION					
SIZE	EACH	SIZE	EACH	SIZE	EACH
12"	75	18" X 11"			
15"	2	22" X 13"			
18"		24" X 16"			
24"		24" X 16"			
30"		30" X 22"			
36"		36" X 27"			

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

END STR