ROAD CONTRACT NO.

INDEX

SHEET NO.	DESIGNATION	B.P.R. APPROVAL	DATE ADOPTED "A" or LATEST REVISION "R"
1	TITLE SHEET		
	ST'D. DIV. LANE (INTERSTATE)		
	ST'D. DIV. LANE (INTERSTATE)		
	ST'D. DIV. LANE (INTERSTATE)		
2	ST'D CROSS SECTION, E-11-1R	NOT APPROVED *	R-4/17/64
	ST'D. CROSS SECTION,		
	ST'D. CROSS SECTION,		
3-5	TYPICAL CROSS SECTION		
	ST'D. 8 INCH RAMP SECTION		
	ST'D. 10 INCH RAMP SECTION		
6-7	ROW PLAT NO. 1		
8	ST'D. PAVEMENT JOINTS SHEET "A"		
9-32	PLAN AND PROFILE	5/23/62	R-5/11/62
33-33A	INTERCHANGE GEOMETRICS AND R.O.W. & DRAINAGE PLAN		
** 34-35-B	INTERCHANGE DETAILS AND PROFILES		
36-37	STRUCTURE DATA		
38-45	DETAILS		
46-47	APPROACH AND CROSSOVER TABLE		
48	SUBSURFACE DRAINS		
49	TABLE OF QUANTITIES		
50	ESTIMATE OF QUANTITIES		
51	MISCELLANEOUS STANDARDS, SHEET "MA"	2-8-66	A-JULY 1965
52	MISCELLANEOUS STANDARDS, SHEET "MB"	*	R-4/22/66
53	MISCELLANEOUS STANDARDS, SHEET "MC"	*	A-DEC 1965
54	MISCELLANEOUS STANDARDS, SHEET "MCI"	2-8-66	R-10/18/65
55	MISCELLANEOUS STANDARDS, SHEET "MD"	2-8-66	R-10/18/65
56	MISCELLANEOUS STANDARDS, SHEET "MD-2"	2-8-66	R-10/13/65
57	MISCELLANEOUS STANDARDS, SHEET "ME"	2-8-66	A-JULY 1965
58	MISCELLANEOUS STANDARDS, SHEET "MEI"	2-8-66	R-10/19/65
	MISCELLANEOUS STANDARDS, SHEET "MG"		
59	MISCELLANEOUS STANDARDS, SHEET "MH-1"		
60	MISCELLANEOUS STANDARDS, SHEET "MI"	2-8-66	R-10/18/65
61	MISCELLANEOUS STANDARDS, SHEET "MJ"	2-8-66	A-JULY 1965
	MISCELLANEOUS STANDARDS, SHEET "MK-1"	2-8-66	A-JULY 1965
62	MISCELLANEOUS STANDARDS, SHEET "MN"		
63 & 64	MISCELLANEOUS STANDARDS, SHEET "MP"	3-17-66	R-1/24/66
	MISCELLANEOUS STANDARDS, SHEET "MP-1"	*	R-2/15/66
65	MISCELLANEOUS STANDARDS, SHEET "MQ"		
66	MISCELLANEOUS STANDARDS, SHEET "S"	5/14/64	R-4/17/64
67	MISCELLANEOUS STANDARDS, SHEET "S-1"	2-8-66	R-10/18/65
	MISCELLANEOUS STANDARDS, SHEET "MT"	3/7/63	R-1/15/63
68 & 69	MISCELLANEOUS STANDARDS, SHEET "MBI"		
	MISCELLANEOUS STANDARDS, SHEET "M"	2-8-66	A JULY 1965
	MISCELLANEOUS STANDARDS, SHEET "MV-3"		
70 & 71	ST'D. STR. CONN. FOR EXTENSION		
	TYPICAL BEAM GUARD RAIL DETAILS, SHEET "GRA"	1/26/60	A-MAY 34
72	ST'D. GUARD RAIL, SHEET "GR"		
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		*	A-JULY 1965
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75	ST'D DETOUR SIGNS, SHEET 5		R-3/8/63
76	ST'D. FOR SUPERELEVATION		R-3/8/63
77	ST'D. FOR SUPERELEVATION AND WIDENING OF CURVES	1/26/60	A-SEPT. 32
78	ST'D. DETOUR SIGNS, SHEET 1		R-3/8/63
79	ST'D. DETOUR SIGNS, SHEET 2		R-3/8/63
80	ST'D. DETOUR SIGNS, SHEET 3		R-3/8/63
81	CONSTR. IDENT. SIGNS, SHEET 1		R-3/8/63
82-183	CROSS SECTIONS	3/9/64	A-FEB. 64

** SHEET NO 35B - INTERCHANGE GRADING PLAN - NOT PRINTED AS PART OF CONST. PRINTS AVAILABLE AT CENTRAL OFFICE ON REQUEST.

* NOT APPROVED BY B.P.R.

REVISIONS

SHEET NO.	DATE	REVISED
	3-28-66	To 1963 Specs.
21, 32, 150-156	4-26-66	Rev. Ditch & Increase R/W
	5-2-66	1965 Specs.

RIGHT-OF-WAY INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
3-5	TYPICAL CROSS SECTION
6-7	R.O.W. PLAT NO. 1
9-32	PLAN AND PROFILE
33	INTERCHANGE R/W & GEOMETRICS
38-45	DETAILS
46-47	APPROACH AND CROSSOVER TABLE

FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	1	183

STATE OF INDIANA
INDIANA STATE HIGHWAY COMMISSION

PLAN AND PROFILE OF PROPOSED
STATE HIGHWAY
F - PROJECT NO. 69

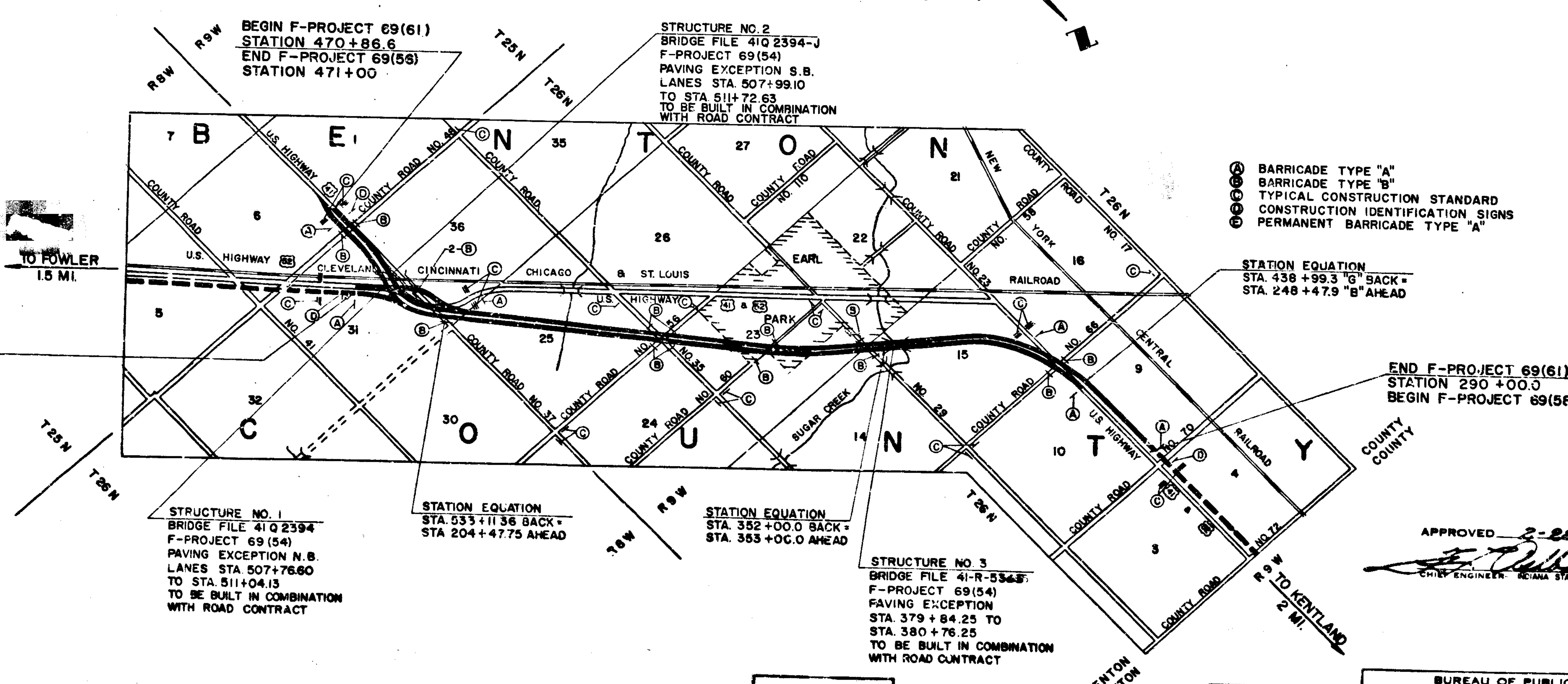
(54) P.E.
(60) R/W
(61) CONST. & UTILITY

BEGINNING AT A POINT ON ROAD U.S. 41 APPROX. 1170.6 FEET SOUTH OF THE NORTH LINE OF SECTION 1, T.25N., R.9W., IN BENTON COUNTY AND EXTENDING NORTH AND NORTHWESTERLY A DISTANCE OF 33,728.41 FEET TO A POINT ON ROAD U.S. 41 & 52 APPROX. 950.4 FEET SOUTH OF THE NORTH LINE OF SECTION 9, T.26N., R.9W., IN BENTON COUNTY.

GROSS LENGTH:- 6.387 MI.
NET LENGTH:- 6.387 MI.
SCALES:-
PLAN { LONG:- 1"=100' / TRANS:- 1"=100' } PROFILE { HORIZ:- 1"=100' / VERT:- 1"=10' }

MAX. GRADE 3.00 %

DESIGN DATA	
A.D.T. (1966)	7085 V.P.D.
A.D.T. (1986) PROJECTED	12399 V.P.D.
D.H.V.	1588 V.P.D.
DIRECTIONAL DISTRIBUTION	50 %
TRUCKS	D.H.V. 10 / A.D.T. 24 %
DESIGN SPEED	70 M.P.H.
ACCESS CONTROL	PARTIAL



		NO. REQ'D
Ⓐ	BARRICADE TYPE "A"	6
Ⓑ	BARRICADE TYPE "B"	15
Ⓒ	TYPICAL CONSTRUCTION STANDARD	42
Ⓓ	CONSTRUCTION IDENTIFICATION SIGNS	3
Ⓔ	PERMANENT BARRICADE TYPE "A"	

APPROVED 2-28-66
[signature]
CHIEF ENGINEER - INDIANA STATE HIGHWAY COMMISSION

STATE HIGHWAY DEPARTMENT OF INDIANA.
STANDARD SPECIFICATIONS DATED 1963
TO BE USED WITH THESE PLANS.

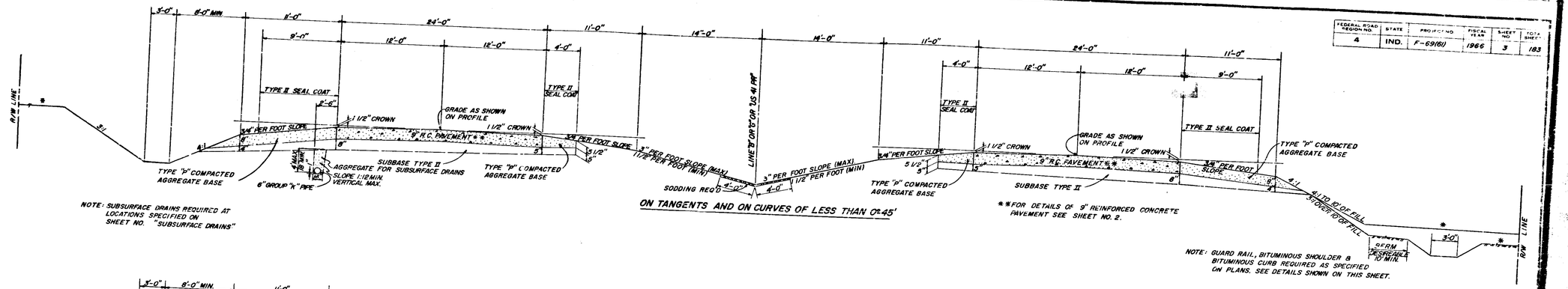
HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS—TERRE HAUTE, INDIANA

RECOMMENDED FOR APPROVAL 2-24-66
C. J. Klingelhoefer
ENGINEER OF PLANS & SPECIFICATIONS INDIANA STATE HIGHWAY COMMISSION

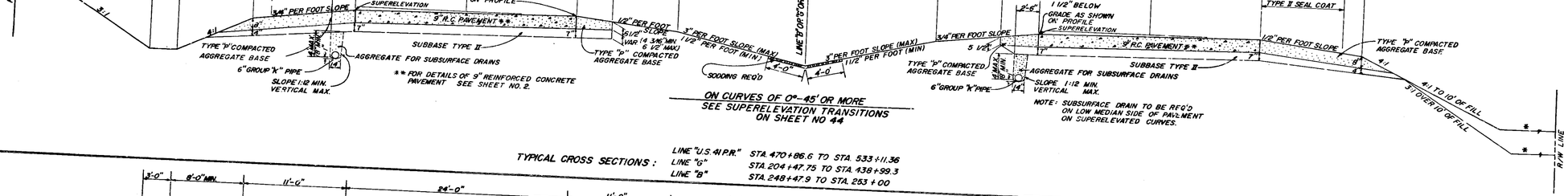
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE
APPROVED
[redacted] [redacted]
DIVISION ENGINEER DATE

ROAD FILE :-

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	3	183



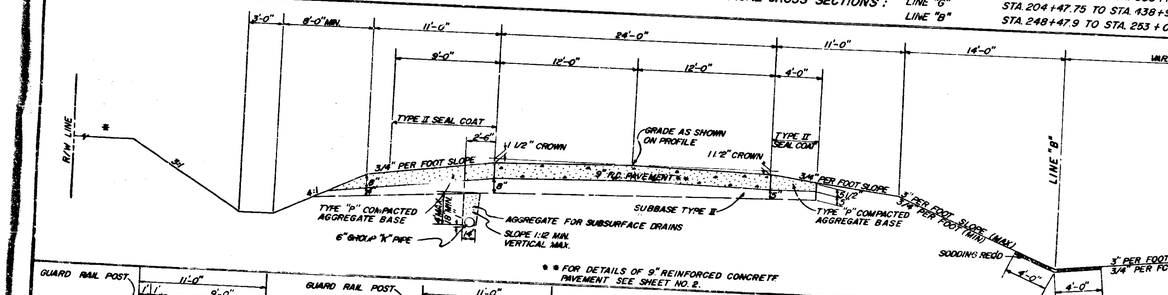
ON TANGENTS AND ON CURVES OF LESS THAN 0°-45'



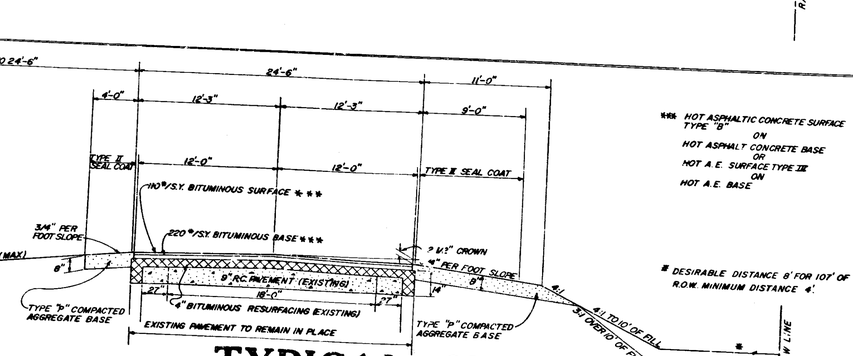
ON CURVES OF 0°-45' OR MORE
SEE SUPERELEVATION TRANSITIONS ON SHEET NO 44

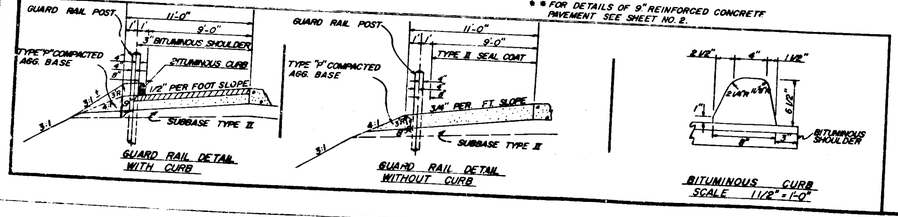
TYPICAL CROSS SECTIONS :

LINE "U.S. 41 P.R."	STA. 470+86.6	TO STA. 533+11.36
LINE "G"	STA. 204+47.75	TO STA. 438+99.3
LINE "B"	STA. 248+47.9	TO STA. 253+00



LINE "B"
STA. 253+00 TO STA. 290+00.0





TYPICAL CROSS SECTIONS

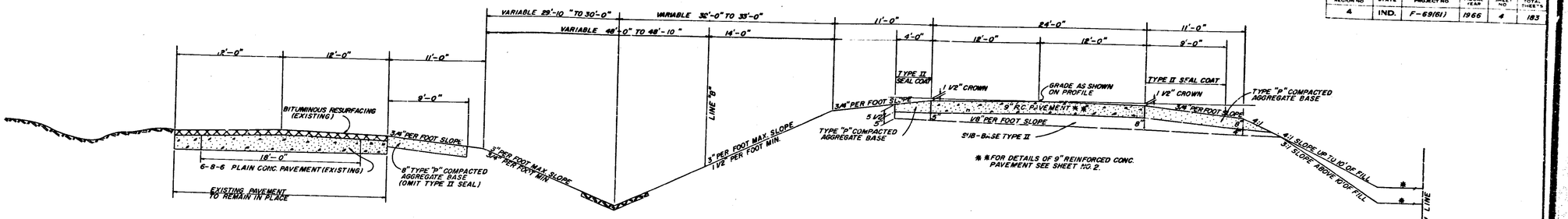
SCALE:-

RECOMMENDED FOR APPROVAL 2-21-66

W.K. Behrens

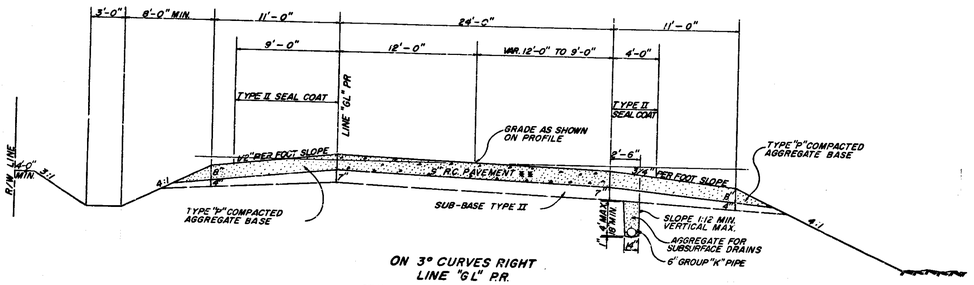
SEPTEMBER 1963

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	4	183



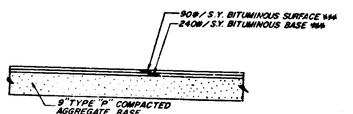
TYPICAL SECTION LINE "B" AND EXISTING U.S.R. 52
STA. 164+00.0 TO STA. 164+98.86

* DESIRABLE DISTANCE 8' FOR 1CT' OF R.O.W. MINIMUM DISTANCE 4'



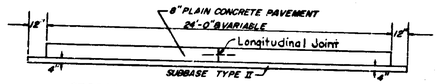
ON 3° CURVES RIGHT
LINE "GL" P.R.
STA. 175+94.19 TO STA. 198+23.71

ON 3° CURVES LEFT
LINE "GL" P.R.
STA. 198+23.71 TO STA. 211+82.33

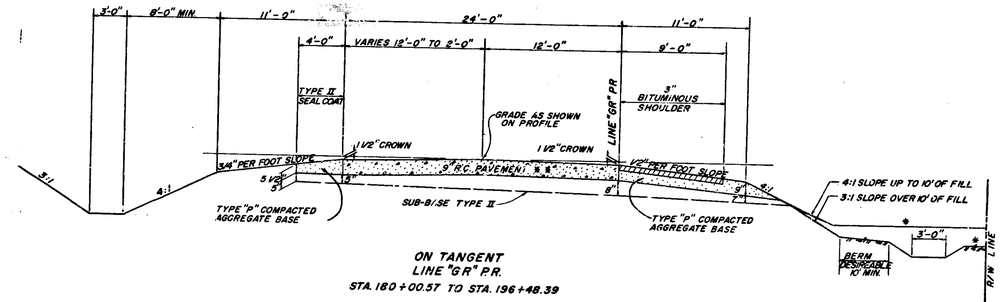


DETOUR ROAD NO. 1 & 2.
TEMPORARY RUNAROUND & CROSSOVERS
NOT TO SCALE

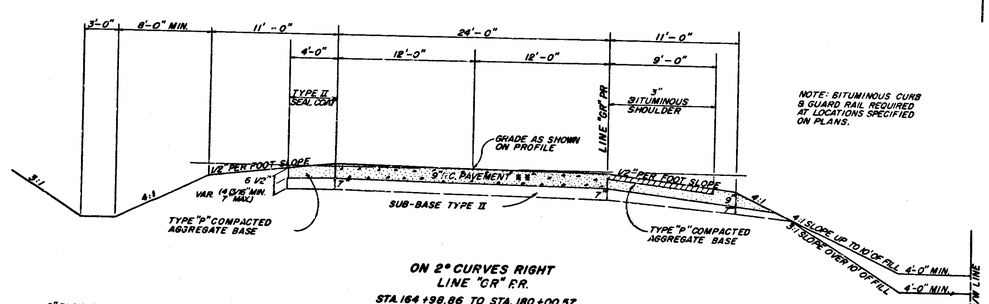
446 HOT ASPHALTIC CONCRETE SURFACE TYPE "B" ON HOT ASPHALTIC CONCRETE BASE OR HOT A.E. SURFACE TYPE IX ON HOT A.E. BASE



CROSSOVER LANES AND DETOUR ROAD NO. 1
STA. 42+68.2 TO STA. 49+47.9



ON TANGENT
LINE "GR" P.R.
STA. 180+00.57 TO STA. 196+48.39



NOTE: BITUMINOUS CURB & GUARD RAIL REQUIRED AT LOCATIONS SPECIFIED ON PLANS.

ON 2° CURVES RIGHT
LINE "GR" P.R.
STA. 164+98.86 TO STA. 180+00.57

TYPICAL CROSS SECTIONS

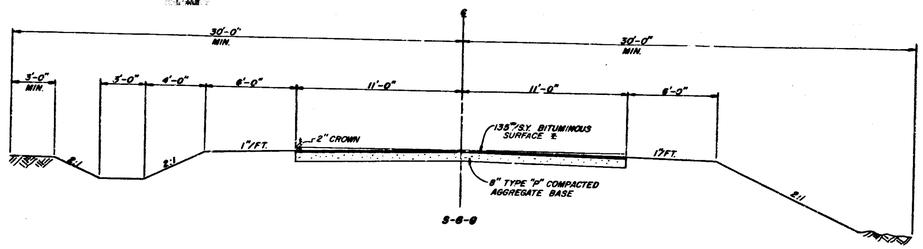
SCALE:- 3/16" = 1'-0" HORIZONTAL
3/8" = 1'-0" VERTICAL

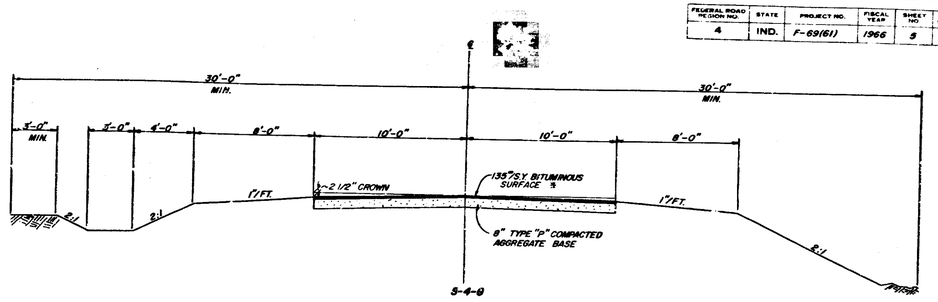
RECOMMENDED FOR APPROVAL 2-21-66
W. H. Behrns
ENGINEER

SEPTEMBER 1963

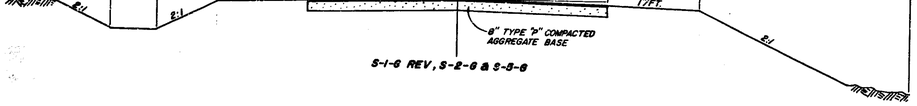
PROJECT NO	SHEET NO	TOTAL SHEETS
F-69(61)	6	4	183

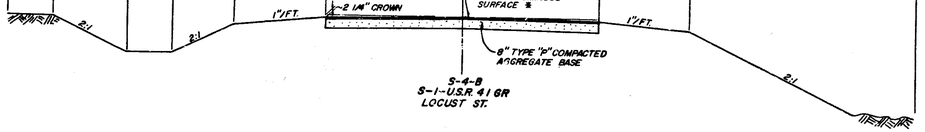
FEDERAL ROAD SECTION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	5	183

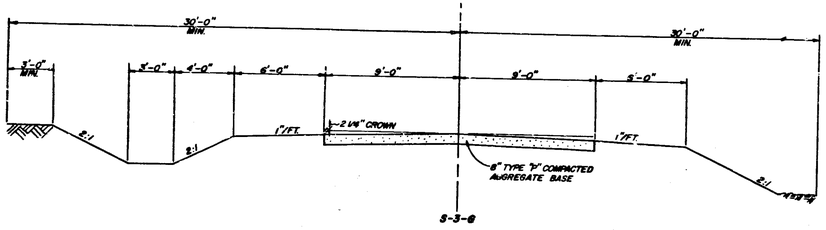


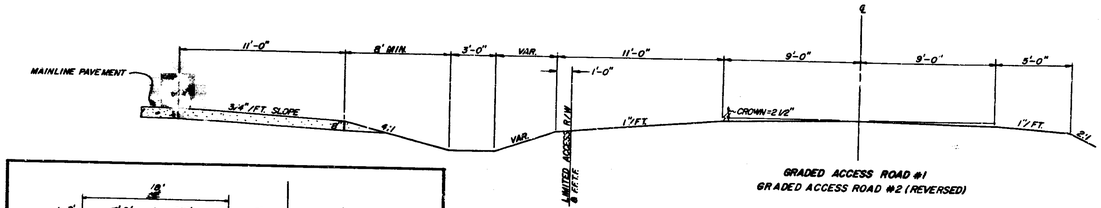


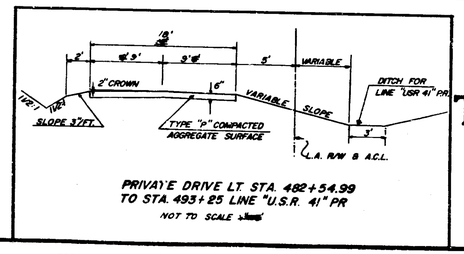
* BITUMINOUS SURFACE SHALL BE:
HOT ASPHALTIC CONCRETE SURFACE, TYPE A
OR
HOT A.E. SURFACE, TYPE II











PRIVATE DRIVE LT. STA. 482+54.99
TO STA. 493+25 LINE "U.S.R. 41" PR
NOT TO SCALE

TYPICAL CROSS SECTIONS

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

RECOMMENDED FOR APPROVAL 2-21-66

W.W. Behrns

SEPTEMBER 1963

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
F-69(61)	6	5	183

FEDERAL AID PROJECT NO.	STATE	ROAD OR STREET NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	6	183

SCALE 1"=1000'

BEGIN F-PROJECT 69(61)
STA 470+86.6 AHEAD
END F-PROJECT 69(56)
STA. 471+00 BACK

BEGIN CONSTRUCTION-LINES "B" & "GR" PR. PROJECT F-69(61)
STA. 164+00
END PROJECT F-75(25)

DETAIL A

NOTE SEE DETAIL A

Drawing Not Legible

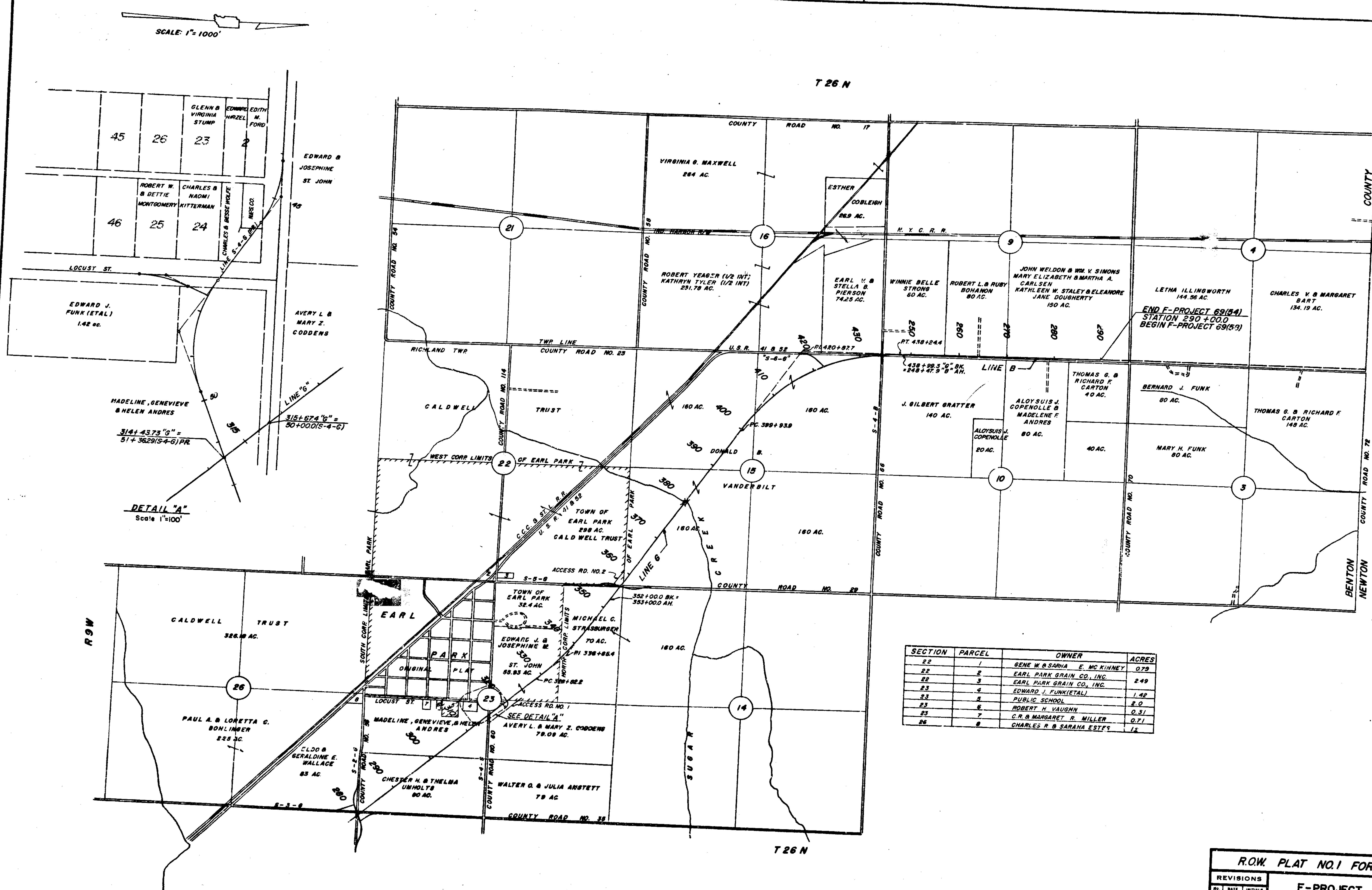
RIGHT OF WAY PLAT NO. 1 FOR DESIGN DEPARTMENT

F - PROJECT NO. 69(61)

STATE OF INDIANA
BENTON COUNTY

HOWARD L. CHASTAIN & ASSOCIATES

FEDERA ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-69(61)	1966	7	183



SCALE: 1" = 1000'
T 26 N
R 9 W
DETAIL "A"
Scale 1" = 100'
LOCUST ST.
EDWARD J. FUNK (ETAL) 1.42 ac.
AVERY L. & MARY Z. CODDENS
EDWARD & JOSEPHINE ST. JOHN
MADELINE, GENEVIEVE & HELEN ANDRES
LINE "G"
COUNTY ROAD NO. 17
VIRGINIA B. MAXWELL 264 AC.
ESTHER COBLEIGH
N. Y. C. R. R.
ROBERT YEAGER (1/2 INT) KATHRYN TYLER (1/2 INT) 231.78 AC.
EARL W. & STELLA B. PIERSON 74.25 AC.
WINNIE BELLE STRONG 60 AC.
ROBERT L. & RUBY BOHANON 80 AC.
LETHA ILLINGWORTH 144.56 AC.
END F-PROJECT 69(54)
STATION 290 + 00.0
BEGIN F-PROJECT 69(61)
TWP LINE
RICHLAND TWP.
COUNTY ROAD NO. 25
LINE B
CALDWELL TRUST
J. GILBERT GRATTER 140 AC.
BERNARD J. FUNK 80 AC.
MARY H. FUNK 80 AC.
DONALD B. VANDERBILT
WEST CORP. LIMITS OF EARL PARK
TOWN OF EARL PARK 298 AC. CALDWELL TRUST
LINE G
ACCESS RD. NO. 2
COUNTY ROAD NO. 29
TOWN OF EARL PARK 32.4 AC.
MICHAEL C. STRASBURGER 70 AC.
EARL PARK
ORIGINAL PLAT
SEE DETAIL "A"
ACCESS RD. NO. 1
PAUL A. & LORETTA C. BONLINGER 225 AC.
WALTER O. & JULIA ANSTETT 79 AC.
COUNTY ROAD NO. 38
SUGAR CREEK
BENTON COUNTY
NEWTON COUNTY

SECTION	PARCEL	OWNER	ACRES
22	1	GENE W. & SARHA E. MC KINNEY	0.79
22	2	EARL PARK GRAIN CO., INC.	2.49
22	3	EARL PARK GRAIN CO., INC.	
23	4	EDWARD J. FUNK(ETAL)	1.42
23	5	PUBLIC SCHOOL	2.0
23	6	ROBERT H. VAUGHN	0.31
23	7	C.R. & MARGARET R. MILLER	0.71
26	8	CHARLES R. & SARAHA ESTES	1±

R.O.W. PLAT NO. 1 FOR DESIGN DEPARTMENT

REVISIONS		
NO.	DATE	INITIALS
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		

F-PROJECT NO. 69 (61)

STATE OF INDIANA
BENTON COUNTY

HOMER L. CHASTAIN & ASSOCIATES
CONSULTING ENGINEERS
TERRE HAUTE, INDIANA

DRAWN BY E.R.H. DATE 1-64
CHECKED BY J.T.V. DATE 2-64
BOOK NUMBER
PROJECT NO. F-69(61)
SHEET NO. 7

GENERAL NOTES

STANDARD PAVEMENT SECTION E-II-IR ADOPTED (OR REVISED) 4-17-64 AS SHOWN ON SHEET NO. 2 TO BE USED ON THIS PROJECT.

TYPICAL CROSS SECTIONS AS SHOWN ON SHEET NOS. 3-5 TO BE USED ON THIS PROJECT.

STATE HIGHWAY COMMISSION OF INDIANA STANDARDS SPECIFICATIONS DATED 1963 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 OR AS INDICATED ON THE STANDARD OR TYPICAL CROSS SECTIONS.

CURVES OF 0° 45' OR MORE SHALL BE SUPERELEVATED ACCORDING TO THE STANDARDS. & PLANS.

ALL DITCHES OF 1% AND OVER SHALL BE SODDED EXCEPT WHERE PAVED SIDE DITCH IS TO BE CONSTRUCTED.

ALL DITCHES OF 3% AND OVER SHALL BE PAVED.

SODDING SHALL BE PLACED ALONG PAVED SIDE DITCH AS SHOWN ON MISCELLANEOUS STANDARDS SHEET "B".

ALL SHOULDERS, CUT AND FILL SLOPES SHALL BE MULCHED SEEDED EXCEPT WHERE SODDING IS SPECIFIED.

SODDED BACKSLOPES SHALL BE CONSTRUCTED IN ACCORDANCE WITH MISCELLANEOUS STANDARDS SHEET "B".

SUB-SURFACE DRAINS SHALL BE CONSTRUCTED AT LOCATIONS SPECIFIED ON DETAIL SHEET NO. 48 AND IN ACCORDANCE WITH DETAILS SHOWN ON MISCELLANEOUS STANDARDS SHEET "N" AND PLAN SHEET NO. 44.

WHERE F.B.C.C.S. PIPE IS SPECIFIED IN THESE PLANS, THIS SHALL BE INTERPRETED AS MEANING, "F.B.C.C.S. PIPE WITH PAVED INVERT".

SEE MISCELLANEOUS STANDARDS SHEET "P" FOR KINDS OF PIPE PERMITTED FOR EACH SIZE AND CLASSIFICATION AS SHOWN IN STRUCTURE NOTES.

QUANTITIES FOR HEADWALLS ARE BASED ON USING PIPE CULVERT HEADWALLS FOR RETAINING 3:1 SLOPES AND PRIVATE ENTRANCE HEADWALLS FOR RETAINING 4:1 SLOPES.

THE CONTRACTOR MUST ACCEPT THE PLAN QUANTITY OF SUBBASE AS GIVEN ON THE "ESTIMATE OF QUANTIES SHEET" (See special provisions).

SUBBASE QUANTITES THRU THE INTERCHANGE AREA, INCLUDED ON "THE ESTIMATE OF QUANTITIES" SHEET, ARE AS FOLLOWS:

LINE "GR" PR STA. 164+00 TO STA. 193+78.39	2824 CYS.
LINE "GL" PR STA. 175+94.19 TO STA. 211+82.33	3153 CYS.
LINE "USR 41" PR FROM NORTH END OF SEPARATION STRUCTURES OVER C.C.C. & ST. L. RR. TO STA. 222+90 LINE "G"	8384 CYS.
TOTAL	14,361 CYS.

EARTHWORK QUANTITIES AS SHOWN ON PLAN & PROFILE SHEETS INCLUDE ESTIMATED EARTHWORK QUANTITIES FOR PUBLIC AND PRIVATE DRIVE APPROACHES AS SHOWN ON SHEET NOS. 46 & 47.

THE CONTRACTOR WILL BE REQUIRED TO REMOVE THE EXISTING ROADWAY SURFACE, BASE AND EMBANKMENT AS INDICATED ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

PUBLIC ROAD APPROACHES SHALL BE CONSTRUCTED AS SHOWN ON MISCELLANEOUS STANDARDS SHEET "I", AND AS INDICATED IN THE APPROACH TABLE ON SHEET NOS. 46 & 47 AND ON DETAIL SHEET NO. 43.

PRIVATE DRIVE, COMMERCIAL DRIVE AND MAIL BOX APPROACHES SHALL BE CONSTRUCTED AS SHOWN BY SECTION ON MISCELLANEOUS STANDARDS SHEET "B" AND "H" AND AS INDICATED IN THE APPROACH TABLE ON SHEET NOS. 46 & 47. PRIVATE DRIVES SHALL BE 24' IN WIDTH.

PERMANENT CROSS-OVERS SHALL BE SURFACED WITH CONCRETE PAVEMENT AS SHOWN ON MISCELLANEOUS STANDARDS SHEET "J" & SHEET 45.

COUNTY ROADS ARE TO BE RETURNED TO THE COUNTY BEYOND END OF LIMITED ACCESS LINE AS SHOWN ON PLANS.

LIMITED ACCESS RIGHT-OF-WAY (L.A. R/W) IS TO BE FENCED WITH FARM FIELD TYPE FENCE (F.F.T.F.) WHERE SPECIFIED ON PLANS.

PR LINES TO BE CROSS SECTIONED BY DISTRICT.

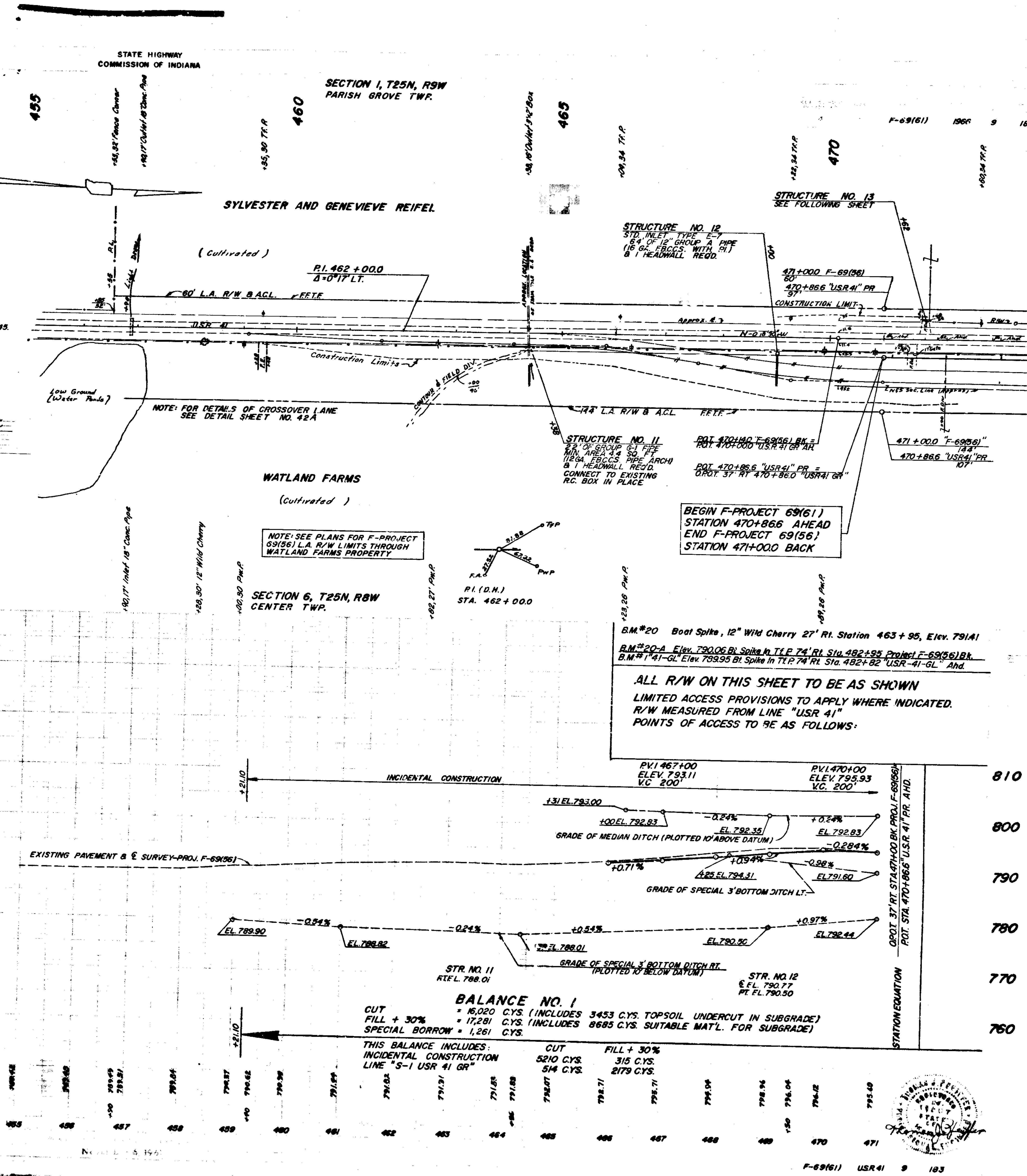
FOUR (4") WHITE EDGE LINES AND A WHITE SKIP CENTERLINE SHALL BE PLACED ON "S-1-USR 41 GR", "S-1-G", "S-2-G", "S-3L-G", "S-3R-G", "S-4-G PR", "S-5-G PR", "S-6-G PR" AND "S-4-B" AS SET OUT IN THE SPECIAL PROVISIONS.

-LEGEND-

L.A. R/W	--- LIMITED ACCESS RIGHT-OF-WAY
A.C.L.	--- ACCESS CONTROL LINE
F.F.T.F.	--- FARM FIELD TYPE FENCE
■	--- ROW MARKER

PUBLIC UTILITIES

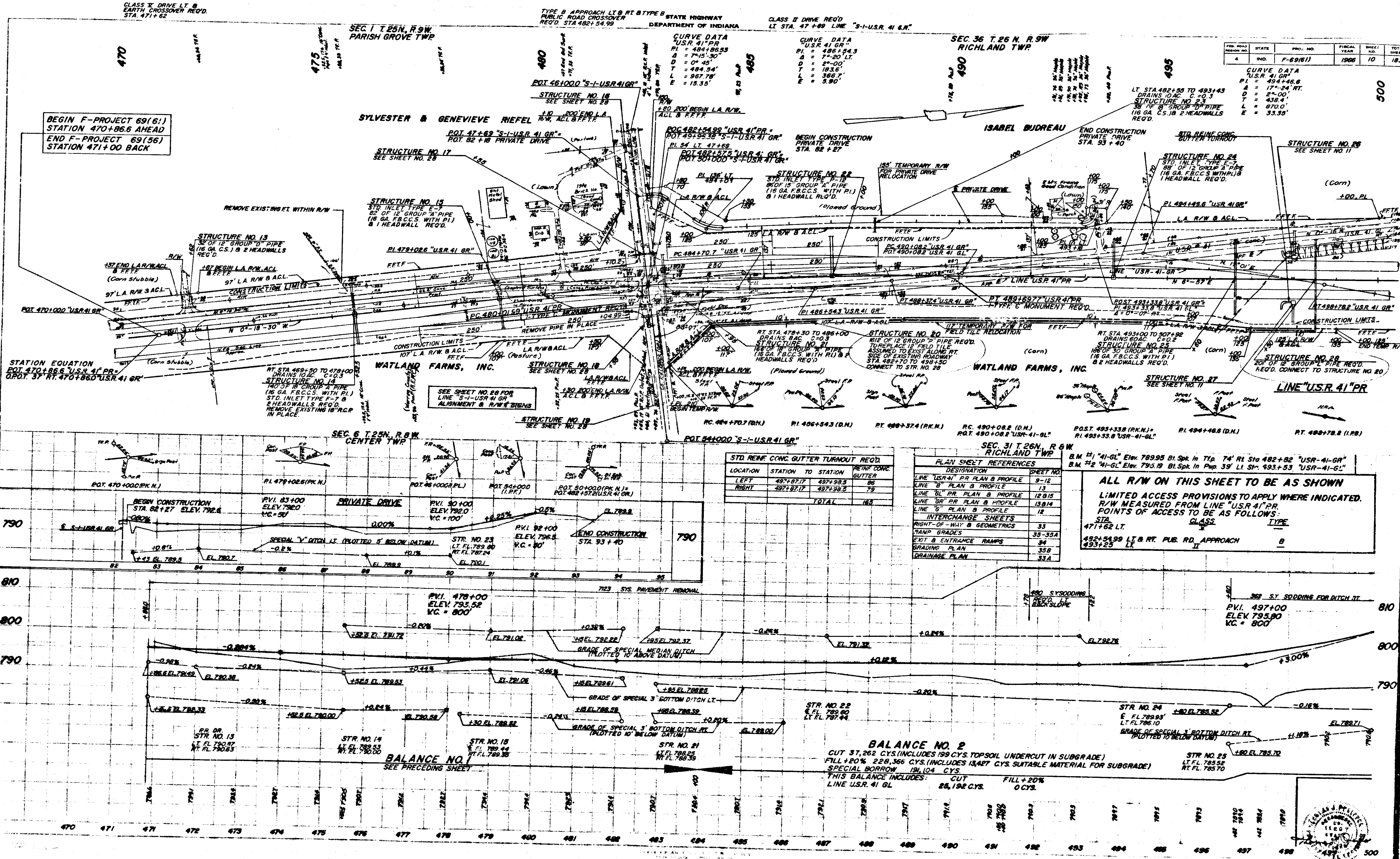
1. NORTHERN IND. PUBLIC SERVICE CO., 210 E GRAHAM, KENTLAND, IND.
2. UNITED TELEPHONE CO., 208 E. GRAHAM, KENTLAND, IND.
3. INDIANA BELL TELEPHONE CO.
4. WESTERN UNION CO. KENTLAND, IND.
5. AMERICAN TELEPHONE & TELEGRAPH
6. WARREN CO. R.E.M.C., WILLIAMSPORT, INDIANA.



STATE HIGHWAY COMMISSION OF INDIANA
SECTION 1, T25N, R9W
PARISH GROVE TWP.
F-69(61) 1966 9 183
SYLVESTER AND GENEVIEVE REIFEL
(Cultivated)
P.I. 462+00.0
Δ=0°17' LT.
STRUCTURE NO. 12
STRUCTURE NO. 13
SEE FOLLOWING SHEET
STRUCTURE NO. 11
NOTE: FOR DETAILS OF CROSSOVER LANE SEE DETAIL SHEET NO. 42A
WATLAND FARMS
(Cultivated)
NOTE: SEE PLANS FOR F-PROJECT 69(56) L.A. R/W LIMITS THROUGH WATLAND FARMS PROPERTY
SECTION 6, T25N, R8W
CENTER TWP.
P.I. (D.H.)
STA. 462+00.0
BEGIN F-PROJECT 69(61)
STATION 470+86.6 AHEAD
END F-PROJECT 69(56)
STATION 471+00.0 BACK
B.M.#20 Boat Spike, 12" Wild Cherry 27' Rt. Station 463+95, Elev. 791.41
B.M.#20-A Elev. 790.06 Bt. Spike in Tel. P. 74' Rt. Sta. 482+95 Project F-69(56) Bk.
B.M.#1 "41-GL" Elev. 789.95 Bt. Spike in Tel. P. 74' Rt. Sta. 482+82 "USR-41-GL" Ahd.
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "USR 41"
POINTS OF ACCESS TO BE AS FOLLOWS:
P.V.I. 467+00
ELEV. 793.11
V.C. 200'
P.V.I. 470+00
ELEV. 795.93
V.C. 200'
INCIDENTAL CONSTRUCTION
EXISTING PAVEMENT & ℄ SURVEY-PROJ. F-69(56)
GRADE OF MEDIAN DITCH (PLOTTED 10' ABOVE DATUM)
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
STR. NO. 11
STR. NO. 12
BALANCE NO. 1
CUT = 16,020 C.YS. (INCLUDES 3453 C.YS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL + 30% = 17,281 C.YS. (INCLUDES 8685 C.YS. SUITABLE MAT'L. FOR SUBGRADE)
SPECIAL BORROW = 1,261 C.YS.
THIS BALANCE INCLUDES: CUT FILL + 30%
INCIDENTAL CONSTRUCTION 5210 C.YS. 315 C.YS.
LINE "S-1 USR 41 GR" 514 C.YS. 2179 C.YS.
STATION EQUATION
810
800
790
780
770
760

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	10	183

STATE HIGHWAY DEPARTMENT OF INDIANA



BALANCE NO. 2
CUT 37,262 C.Y.S. (INCLUDES 199 C.Y.S. TOPSOIL UNDERCUT IN SUBGRADE)
FILL + 20% 228,366 C.Y.S. (INCLUDES 13,427 C.Y.S. SUITABLE MATERIAL FOR SUBGRADE)
SPECIAL BORROW 191,104 C.Y.S.
THIS BALANCE INCLUDES: CUT 25,192 C.Y.S. FILL + 20% 0 C.Y.S.
LINE U.S.R. 41 GL

STD. REINF. CONC. GUTTER TURNOUT REQ'D.			
LOCATION	STATION TO	STATION	REINF. CONC. GUTTER
LEFT	497+87.17	497+98.5	86
RIGHT	497+87.17	497+98.5	79
		TOTAL	165

PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "USR 41" P.R. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" P.R. PLAN & PROFILE	12 & 15
LINE "GR" P.R. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35-35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33A

B.M. #1 "41-GL" Elev. 789.95 Bt. Spk. in T.P. 74' Rt. Sta. 482+82 "USR-41-GR"
B.M. #2 "41-GL" Elev. 795.19 Bt. Spk. in Pwp. 39' Lt. Sta. 493+53 "USR-41-GL"

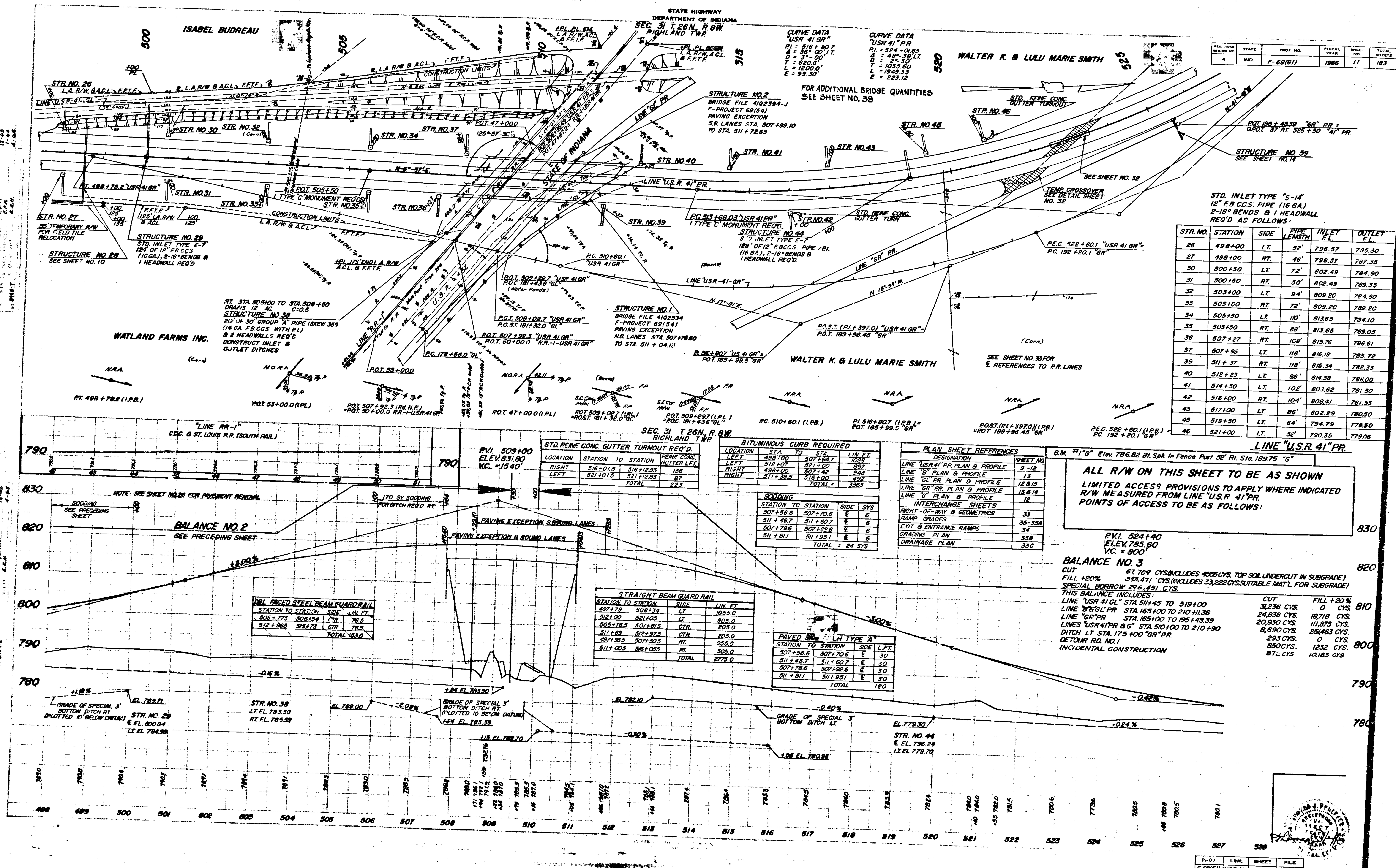
ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "U.S.R. 41" PR.
POINTS OF ACCESS TO BE AS FOLLOWS:

STA.	CLASS	TYPE
471+62 LT.	V	
482+54.99 LT & RT. PUB. RD. APPROACH		B
493+25 LT.	II	

PROJ.	LINE	SHEET	FILE
F-69(61)	USR 41	10	

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	11	183



STATE HIGHWAY DEPARTMENT OF INDIANA
SEC. 31 T.26N. R.8W. RICHLAND TWP.
ISABEL BUDREAU
WALTER K. & LULU MARIE SMITH
WATLAND FARMS INC.
CURVE DATA "USR 41 GR" P.I. = 516 + 80.7 Δ = 36°-00' LT. D = 3°-00' T = 620.6 L = 1200.0' E = 98.30'
CURVE DATA "USR 41" P.R. P.I. = 524 + 01.63 Δ = 48°-38' LT. D = 2°-30' T = 1035.60 L = 1945.33 E = 223.12
FOR ADDITIONAL BRIDGE QUANTITIES SEE SHEET NO. 39
STRUCTURE NO. 2 BRIDGE FILE 4102384-J F-PROJECT 69(54) PAVING EXCEPTION S.B. LANES STA. 507+99.10 TO STA. 511 + 72.63
STRUCTURE NO. 1 BRIDGE FILE 4102384 F-PROJECT 69(54) PAVING EXCEPTION N.B. LANES STA. 507+78.80 TO STA. 511 + 04.13
STRUCTURE NO. 59 SEE SHEET NO. 14
STRUCTURE NO. 28 SEE SHEET NO. 10
STRUCTURE NO. 29 STD. INLET TYPE E-7 124' OF 12" F.B.C.C.S. (16 GA.), 2-18° BENDS & 1 HEADWALL REQ'D
STRUCTURE NO. 38 212' OF 30" GROUP "A" PIPE (SKEW 35°) (14 GA. F.B.C.C.S. WITH P.L.) & 2 HEADWALLS REQ'D CONSTRUCT INLET & OUTLET DITCHES
STRUCTURE NO. 44 STD. INLET TYPE E-7 128' OF 12" F.B.C.C.S. PIPE / RI. (16 GA.), 2-18° BENDS & 1 HEADWALL REQ'D.
TEMP. CROSSOVER SEE DETAIL SHEET NO. 32
LINE "U.S.R. 41" PR.
LINE "USR-41-GR"
LINE "GR" PR.
LINE "GL" PR.
LINE RR-1
"LINE RR-1" C.&E.I. & ST. LOUIS R.R. (SOUTH RAIL)
P.V.I. 509+00 ELEV. 831.80 V.C. = 1540'
P.V.I. 524+40 ELEV. 785.60 V.C. = 800'
BALANCE NO. 2 SEE PRECEDING SHEET
PAVING EXCEPTION S.BOUND LANES
PAVING EXCEPTION N.BOUND LANES
NOTE: SEE SHEET NO. 86 FOR PAVEMENT REMOVAL
STR. NO. 29 ℄ EL. 800.34 LT. EL. 794.98
STR. NO. 38 LT. EL. 783.50 RT. EL. 785.59
STR. NO. 44 ℄ EL. 796.24 LT. EL. 779.70
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
SEE SHEET NO. 33 FOR ℄ REFERENCES TO P.R. LINES

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED
R/W MEASURED FROM LINE "U.S.R 41" PR.
POINTS OF ACCESS TO BE AS FOLLOWS:

B.M. #1 "G" Elev. 786.82 Bt. Spk. In Fence Post 52' Rt. Sta. 189.75 "G"

STD. INLET TYPE "S-14"
12" F.B.C.C.S. PIPE (16 GA.)
2-18° BENDS & 1 HEADWALL
REQ'D AS FOLLOWS:

STR. NO.	STATION	SIDE	PIPE LENGTH	INLET F.L.	OUTLET F.L.
26	498+00	LT.	52'	796.57	785.30
27	498+00	RT.	46'	796.57	787.35
30	500+50	LT.	72'	802.49	784.90
31	500+50	RT.	30'	802.49	789.35
32	503+00	LT.	94'	809.20	784.50
33	503+00	RT.	72'	809.20	789.20
34	505+50	LT.	110'	813.65	784.10
35	505+50	RT.	88'	813.65	789.05
36	507+27	RT.	108'	815.76	786.61
37	507+95	LT.	118'	816.19	783.72
39	511+37	RT.	118'	816.34	782.33
40	512+23	LT.	96'	814.38	786.00
41	514+50	LT.	102'	803.62	781.50
42	516+00	RT.	104'	808.41	781.53
43	517+00	LT.	86'	802.29	780.50
45	519+50	LT.	64'	794.79	779.50
46	521+00	LT.	52'	790.35	779.06

LINE "U.S.R. 41" PR.

STD. REINF. CONC. GUTTER TURNOUT REQ'D.

LOCATION	STATION	TO STATION	REINF. CONC. GUTTER LFT.
RIGHT	516+01.5	516+12.83	136
LEFT	521+01.5	521+12.83	87
		TOTAL	223

BITUMINOUS CURB REQUIRED

LOCATION	STA.	TO STA.	LIN. FT.
LEFT	498+00	507+64.7	1028
LEFT	512+07	521+00	897
RIGHT	498+00	507+42	948
RIGHT	511+38.5	516+00	492
		TOTAL =	3365

SODDING

STATION	TO STATION	SIDE	SYS
507+56.6	507+70.6	℄	6
511+46.7	511+60.7	℄	6
507+78.6	507+92.6	℄	6
511+81.1	511+95.1	℄	6
	TOTAL = 24 SYS		

PLAN SHEET REFERENCES

DESIGNATION	SHEET NO.
LINE "USR 41" PR. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" PR. PLAN & PROFILE	12 & 15
LINE "GR" PR. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35-35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33C

DBL. FACED STEEL BEAM GUARDRAIL

STATION	TO STATION	SIDE	LIN. FT.
505+77.5	506+54	CTR	76.5
512+96.5	513+73	CTR	76.5
		TOTAL	153.0

STRAIGHT BEAM GUARD RAIL

STATION	TO STATION	SIDE	LIN. FT.
497+79	508+34	LT.	1055.0
512+00	521+05	LT.	905.0
505+76.5	507+81.5	CTR.	205.0
511+69	512+97.5	CTR.	205.0
497+95.5	507+50.5	RT.	955.0
511+00.5	516+05.5	RT.	505.0
		TOTAL	2775.0

PAVED [illegible] TYPE "A"

STATION	TO STATION	SIDE	L.FT.
507+56.6	507+70.6	℄	30
511+46.7	511+60.7	℄	30
507+78.6	507+92.6	℄	30
511+81.1	511+95.1	℄	30
	TOTAL		120

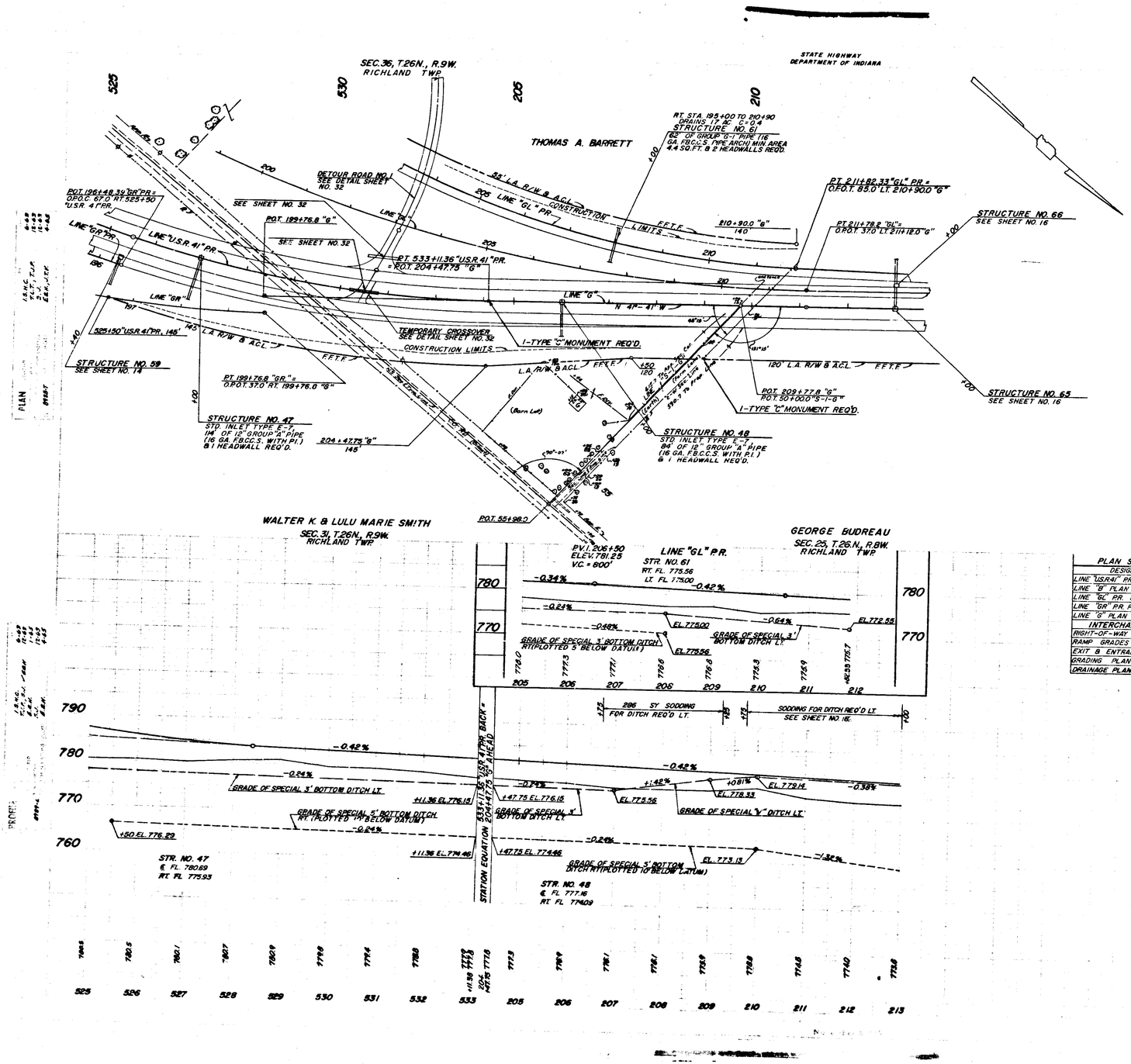
BALANCE NO. 3

CUT 87,709 CYS. (INCLUDES 4555 CYS. TOP SOIL UNDERCUT IN SUBGRADE)
FILL +20% 393,471 CYS. (INCLUDES 33,222 CYS. SUITABLE MAT'L FOR SUBGRADE)
SPECIAL BORROW 296,451 CYS.

THIS BALANCE INCLUDES:

	CUT	FILL +20%
LINE "USR 41 GL" STA. 511+45 TO 519+00	31,236 CYS.	0 CYS.
LINE "B" & "GL" PR STA. 165+00 TO 210+11.36	24,838 CYS.	18,718 CYS.
LINE "GR" PR STA. 165+00 TO 195+43.39	20,930 CYS.	111,875 CYS.
LINES "USR 41 PR & G" STA. 510+00 TO 210+90	8,690 CYS.	251,463 CYS.
DITCH LT. STA. 175+00 "GR" P.R.	293 CYS.	0 CYS.
DETOUR RD. NO. 1	850 CYS.	1232 CYS.
INCIDENTAL CONSTRUCTION	872 CYS.	10,183 CYS.

PROJ.	LINE	SHEET	FILE
F-69(61)	USR 41	11	



PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "U.S.R.41" PR. PLAN & PROFILE	9-12
LINE "G" PLAN & PROFILE	13
LINE "GL" PR. PLAN & PROFILE	12 B 13
LINE "GR" PR. PLAN & PROFILE	13 B 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35 & 35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33A

S.M.# 2 Elev. 780.09 Brass Disc in Conc. Post (Azimuth Marker, Stamped GRAVEL 1955) 0.3' Right Of Station 201+12 "G"

B.M.# 3 Elev. 777.15 Boat Spike in 12" Osage Stump 106' Lt. Of Station 210+90 "G"

LINES "U.S.R. 41" PR ; "GL" PR. & "G"

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED R/W MEASURED LT. FROM LINE "GL" PR. & RT. FROM LINES "U.S.R. 41" PR. & "G"

POINTS OF ACCESS TO BE AS FOLLOWS:

F-69(61) 1966 12 183

F-69(61) U.S.R. 41 12 183 G.L.B.G.

STATE HIGHWAY
DEPARTMENT OF INDIANA

SEC. 31, T. 26 N., R. 8 W.
RICHLAND TWP.

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	13	16

CURVE DATA
"GR" L
PI = 173+00.0
Δ = 28°-06' RT.
D = 2°-00'
T = 717.0'
L = 1405.0'
E = 88.35'

CURVE DATA
"GR" PR
PI = 172+59.14
Δ = 24°-26'-03"
D = 2°-00'
T = 620.80'
L = 1221.71'
E = 66.38'

LT. STA 160+00 TO 171+00 DRAINS 3 AC. C=0.6
STRUCTURE NO. 50
112' OF 18' GROUP "A" PIPE (16 GA. F&C.C.S. WITH P.I.) & 2 HEADWALLS REQ'D.

STRUCTURE NO. 51
SEE SHEET NO. 14

STRUCTURE NO. 49
67' OF 18" R.C. PIPE & 1 HEADWALL REQ'D.
~~EXTEND EXISTING PIPE IN PLACE.~~

NOTE: FOR DETAIL OF CROSSOVER LANE SEE DETAIL SHEET NO. 42A

BEGIN CONSTRUCTION - LINES "B" & "GR" PR. PROJECT F-69(61)
STATION 164+00.00 "B"
END PROJECT F-75(25)

P.O.T. 143+31.8 = P.O.T. 3+00.00 "S-33-B"

P.O.T. 144+20.99 LINE "B" = P.O.T. 2+49.22 LINE "S-33-B" PR

P.O.T. 164+61.6

P.C. 165+83.0 (LPB.)

P.O.S.T. 169+68.2 (LPB.)

P.I. 173+00.0 (LPB.)

P.O.T. 143+31.8 (URL) = P.O.T. 0+00.0 (LPL.)
P.O.T. 3+00 "S-33-B" (LPL.)

P.O.T. 154+61.6 (LPB.)

PUBLIC UTILITIES
1. NORTHERN IND. PUBLIC SERVICE CO., 210 E. GRAHAM, KENTLAND, IND.
2. UNITED TELEPHONE CO., 208 E. GRAHAM, KENTLAND, IND.
3. INDIANA BELL TELEPHONE CO.
4. WESTERN UNION CO. KENTLAND, IND.
5. AMERICAN TELEPHONE & TELEGRAPH

PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "US 41/PR" PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" PR. PLAN & PROFILE	12 & 15
LINE "GR" PR. PLAN & PROFILE	13 & 14
LINE "L" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35B, 35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35D
DRAINAGE PLAN	33A

B.M.# 84 Elev. 796.34 Bl. Spk. In T.f.p. 100' Lt. Sta. 160+60
B.M.# 85 "B" Elev. 793.68 Bl. Spk. In Ty.p. 158' Lt. Sta. 169+22 "G"

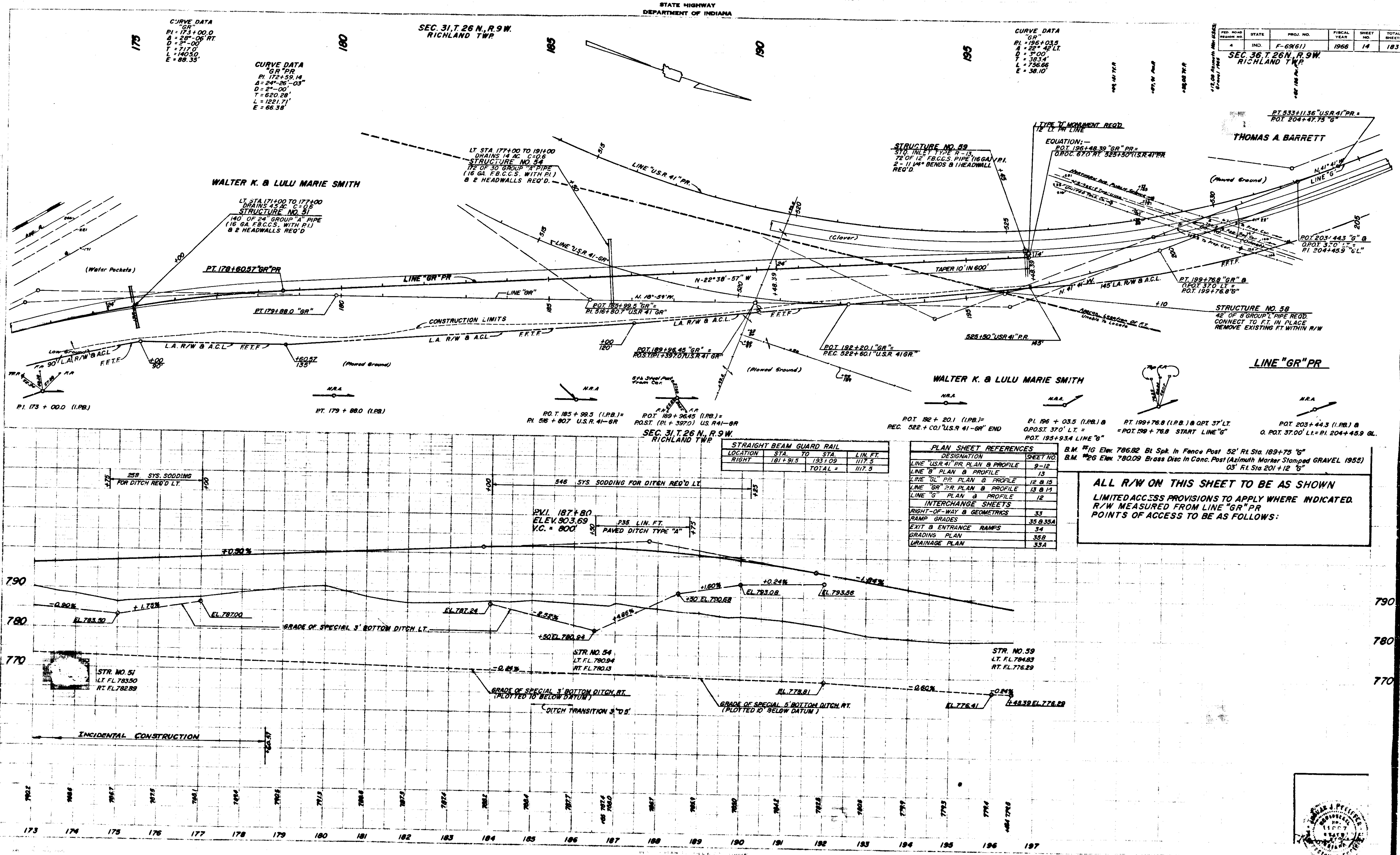
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "GR" PR
POINTS OF ACCESS TO BE AS FOLLOWS:

LINE "B" & "GR" PR

PROJ.	LINE	SHEET	FILE
F-69(61)	B & G.R.	13	

STATE HIGHWAY
DEPARTMENT OF INDIANA

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	14	183



STRAIGHT BEAM GUARD RAIL			
LOCATION	STA. TO	STA.	LIN. FT.
RIGHT	181+91.5	193+09	1117.5
		TOTAL =	1117.5

PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "U.S.R. 41" P.R. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" P.R. PLAN & PROFILE	12 & 15
LINE "GR" P.R. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35 & 35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33A

B.M. #1G Elev. 786.82 Bt. Spk. In Fence Post 52' Rt. Sta. 189+75 "G"
B.M. #2G Elev. 780.09 Brass Disc In Conc. Post (Azimuth Marker Stamped GRAVEL 1955) 03' Rt. Sta. 201+12 "G"

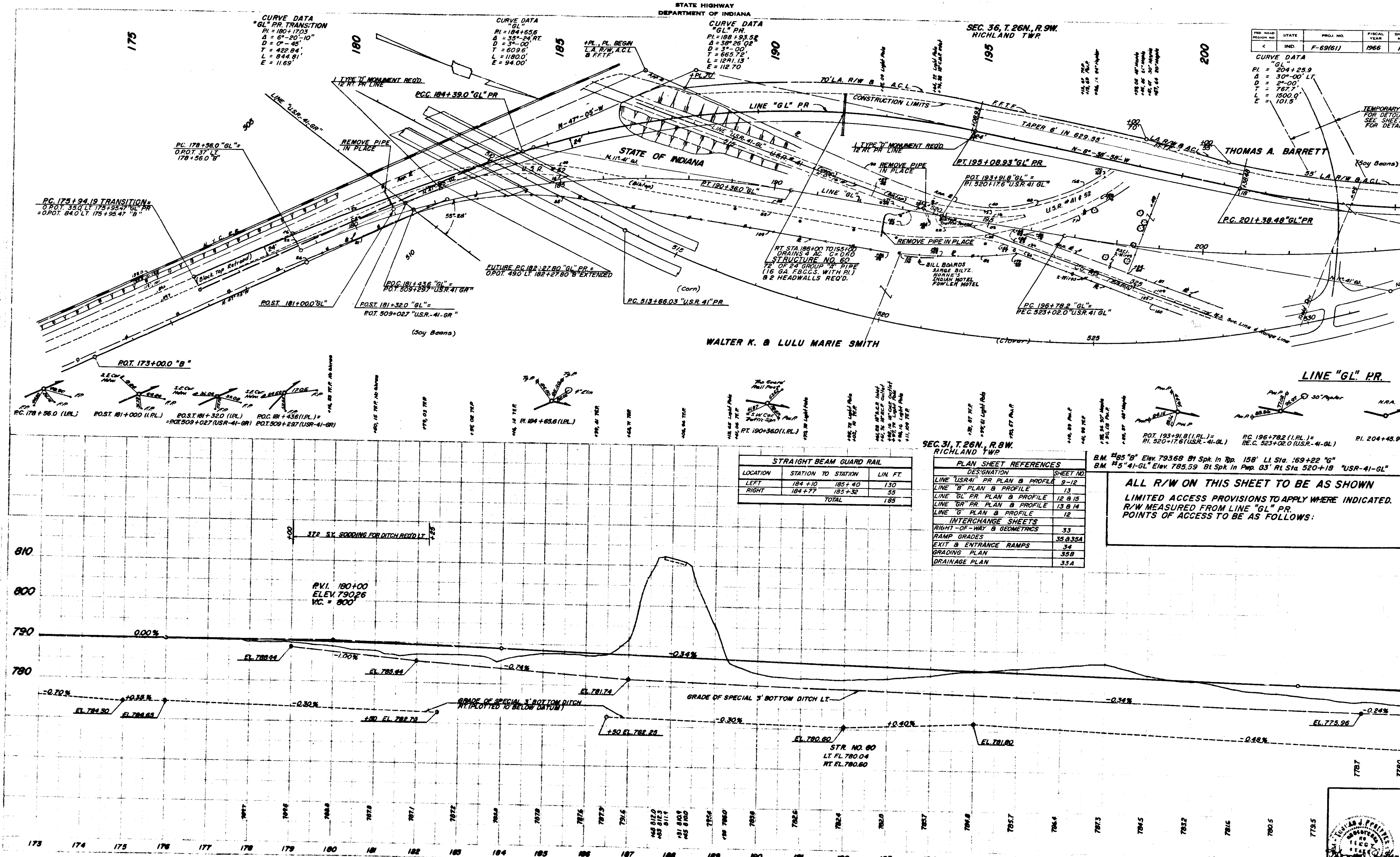
ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "GR" PR
POINTS OF ACCESS TO BE AS FOLLOWS:

PROJ.	LINE	SHEET	FILE
F-69(61)	GR	14	

STATE HIGHWAY
DEPARTMENT OF INDIANA

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	15	183



STRAIGHT BEAM GUARD RAIL			
LOCATION	STATION TO	STATION	LIN. FT.
LEFT	184+10	185+40	130
RIGHT	184+77	185+32	55
	TOTAL		185

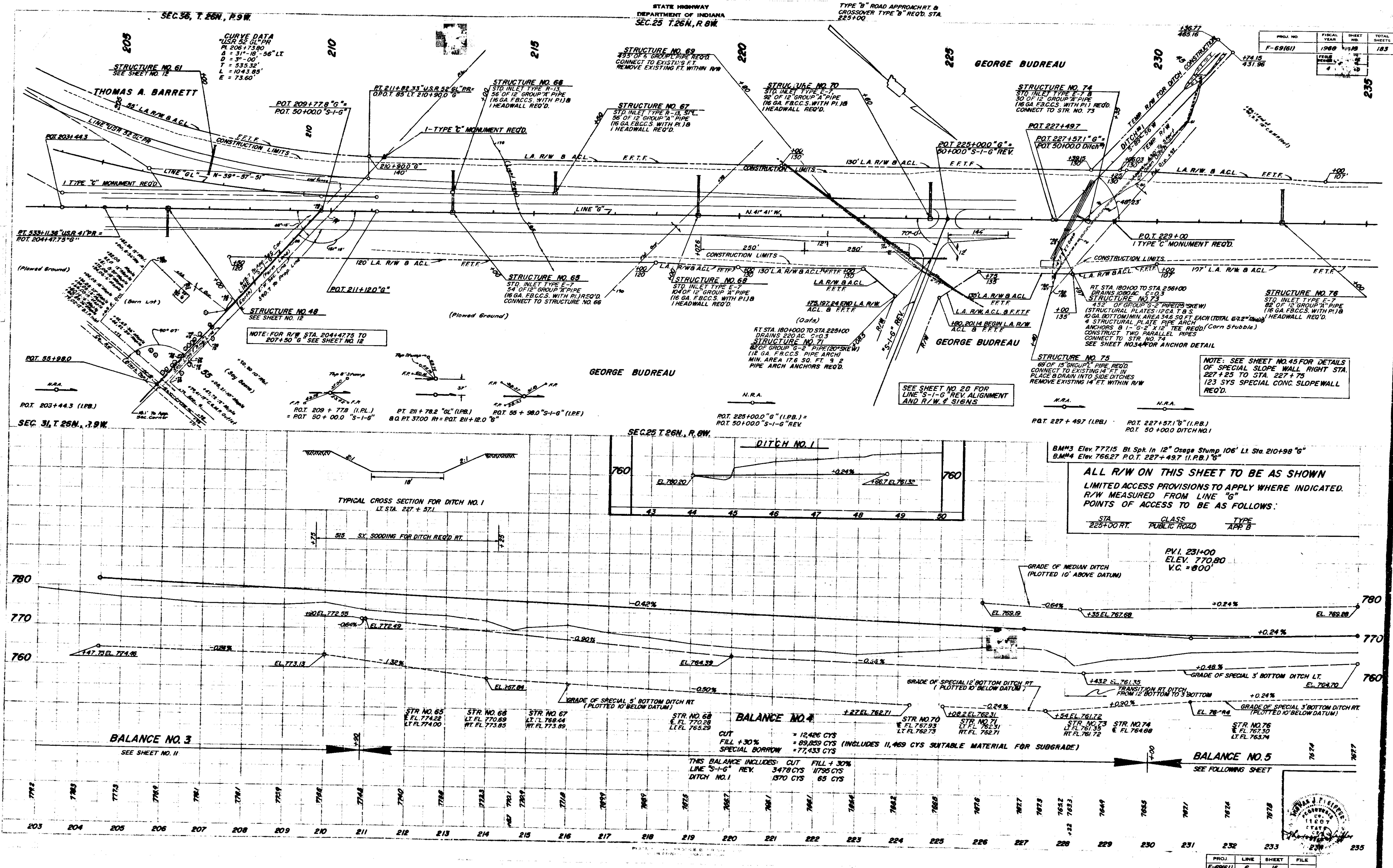
PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "USR41" PR. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" PR. PLAN & PROFILE	12 & 15
LINE "GR" PR. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35 & 35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33A

B.M. #85 "B" Elev. 793.68 Bt Spk. In Tpp. 158' Lt. Sta. 169+22 "G"
B.M. #5 "41-GL" Elev. 785.59 Bt. Spk. In Pwp. 83' Rt. Sta. 520+18 "USR-41-GL"

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "GL" PR.
POINTS OF ACCESS TO BE AS FOLLOWS:

PROJ.	LINE	SHEET	FILE
F-69(61)	GL	15	


STATE HIGHWAY
DEPARTMENT OF INDIANA
SEC.25 T.26N., R.8W.
SEC.36, T.26N., R.9W.
SEC. 31, T.26N., R.9W.
PROJ. NO. F-69(61) | FISCAL YEAR 1966 | SHEET NO. 16 | TOTAL SHEETS 183
CURVE DATA
"USR 52 GL" PR
P.I. 206+73.80
Δ = 31°-18'-56" LT.
D = 3°-00'
T = 535.32'
L = 1043.85'
E = 73.60'
THOMAS A. BARRETT
GEORGE BUDREAU
STRUCTURE NO. 61
SEE SHEET NO. 12
STRUCTURE NO. 48
SEE SHEET NO. 12
NOTE: FOR R/W STA. 204+47.75 TO 207+50 "G" SEE SHEET NO. 12
P.O.T. 203+44.3
P.O.T. 209+77.8 "G" = P.O.T. 50+00.0 "S-1-G"
P.T. 211+82.33 "U.S.R 52 GL" PR = O.P.O.T. 85' LT. 210+90.0 "G"
P.T. 533+11.36 "U.S.R 41" PR = P.O.T. 204+47.75 "G"
P.O.T. 211+12.0 "G"
P.O.T. 55+98.0
1 TYPE "C" MONUMENT REQ'D.
1-TYPE "C" MONUMENT REQ'D.
LINE "USR 52 GL" PR
LINE "GL" N-39°-57'-51"
LINE "G" N.41° 41' W.
55' L.A. R/W & A.C.L.
120' L.A. R/W & A.C.L.
130' L.A. R/W & A.C.L.
135' L.A. R/W & A.C.L.
107' L.A. R/W & A.C.L.
CONSTRUCTION LIMITS
F.F.T.F.
(Plowed Ground)
(Barn Lot)
(Oats)
(Corn Stubble)
(Soy Beans)
STRUCTURE NO. 65
STD. INLET TYPE E-7
54' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) REQ'D.
CONNECT TO STRUCTURE NO. 66
STRUCTURE NO. 66
STD. INLET TYPE R-13,
56' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STRUCTURE NO. 67
STD. INLET TYPE R-13, S.P.L.
56' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STRUCTURE NO. 68
STD. INLET TYPE E-7
104' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STRUCTURE NO. 69
49.5' OF 6" GROUP "L" PIPE REQ'D.
CONNECT TO EXISTING F.T.
REMOVE EXISTING F.T. WITHIN R/W
STRUCTURE NO. 70
STD. INLET TYPE E-7,
92' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
RT. STA. 180+00.0 TO STA. 225+00
DRAINS 220 AC. C=0.3
STRUCTURE NO. 71
82' OF GROUP "G-2" PIPE (20° SKEW)
(12 GA. F.B.C.C.S. PIPE ARCH)
MIN. AREA 17.6 SQ. FT. & 2 PIPE ARCH ANCHORS REQ'D.
TYPE "B" ROAD APPROACH RT. & CROSSOVER TYPE "B" REQ'D. STA. 225+00
P.O.T. 225+00.0 "G" = 50+00.0 "S-1-G" REV.
+75,197.24 END L.A. R/W, A.C.L. & F.F.T.F.
+80,201.14 BEGIN L.A. R/W, A.C.L. & F.F.T.F.
"S-1-G" REV.
SEE SHEET NO. 28 FOR LINE "S-1-G" REV. ALIGNMENT AND R/W ℄ SIGNS
STRUCTURE NO. 74
STD. INLET TYPE E-7 &
30' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) REQ'D.
CONNECT TO STR. NO. 73
P.O.T. 227+49.7
P.O.T. 227+57.1 "G" = P.O.T. 50+00.0 Ditch #1
TEMP. R/W FOR DITCH CONSTRUCTION
DITCH #1 S-89°-56' W
TEMP. R/W
P.O.T. 229+00
1 TYPE "C" MONUMENT REQ'D.
RT. STA. 180+00 TO STA. 256+00
DRAINS 1080 AC. C=0.3
STRUCTURE NO. 73
452' OF GROUP "G-2" PIPE (25° SKEW)
(STRUCTURAL PLATES: 12 GA. T & S. 10 GA. BOTTOM) MIN. AREA 34.6 SQ. FT. EACH (TOTAL 69.2" Reqd.)
4 STRUCTURAL PLATE PIPE ARCH ANCHORS & 1-"G-2" X 12" TEE REQ'D.
CONSTRUCT TWO PARALLEL PIPES
CONNECT TO STR. NO. 74
SEE SHEET NO. 34A FOR ANCHOR DETAIL
STRUCTURE NO. 75
69' OF 15" GROUP "L" PIPE REQ'D.
CONNECT TO EXISTING 14" F.T. IN PLACE & DRAIN INTO SIDE DITCHES
REMOVE EXISTING 14" F.T. WITHIN R/W
STRUCTURE NO. 76
STD. INLET TYPE E-7
82' OF 12" GROUP "A" PIPE
(16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
NOTE: SEE SHEET NO. 45 FOR DETAILS OF SPECIAL SLOPE WALL RIGHT STA. 227+25 TO STA. 227+75
123 SYS SPECIAL CONC. SLOPEWALL REQ'D.
N.R.A.
P.O.T. 203+44.3 (I.P.B.)
P.O.T. 209 + 77.8 (I.P.L.) = P.O.T. 50 + 00.0 "S-1-G"
P.T. 211 + 78.2 "GL" (I.P.B.) & Q. P.T. 37.00 Rt = P.O.T. 211+12.0 "G"
P.O.T. 55 + 98.0 "S-1-G" (I.P.F.)
P.O.T. 225+00.0 "G" (I.P.B.) = P.O.T. 50+00.0 "S-1-G" REV.
P.O.T. 227 + 49.7 (I.P.B.)
P.O.T. 227+57.1 "G" (I.P.B.)
P.O.T. 50 +00.0 DITCH NO. 1
B.M.#3 Elev. 777.15 Bt. Spk. In 12" Osage Stump 106' Lt. Sta. 210+98 "G"
B.M.#4 Elev. 766.27 P.O.T. 227+49.7 (I.P.B.) "G"
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "G"
POINTS OF ACCESS TO BE AS FOLLOWS:
STA. 225+00 RT. | CLASS PUBLIC ROAD | TYPE APP. B
TYPICAL CROSS SECTION FOR DITCH NO. 1
LT. STA. 227 + 57.1
515 S.Y. SODDING FOR DITCH REQ'D RT.
DITCH NO. 1
EL. 760.20
+0.24%
+66.7 EL. 761.30
P.V.I. 231+00
ELEV. 770.80
V.C. = 800'
-0.42%
+0.24%
-0.90%
-0.34%
-0.28%
-1.32%
-0.50%
-0.64%
+0.48%
+0.90%
-0.24%
+20 EL. 772.55
EL. 772.49
+47.75 EL. 774.46
EL. 773.13
EL. 767.84
EL. 764.39
EL. 769.19
+35 EL. 767.68
EL. 769.28
+43.2 EL. 761.35
EL. 764.70
+27 EL. 762.71
+08.2 EL. 762.31
+54 EL. 761.72
GRADE OF MEDIAN DITCH (PLOTTED 10' ABOVE DATUM)
GRADE OF SPECIAL 5' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
GRADE OF SPECIAL 12' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
TRANSITION RT. DITCH FROM 12' BOTTOM TO 3' BOTTOM
STR. NO. 65 ℄ F.L. 774.22 LT. F.L. 774.00
STR. NO. 66 LT. F.L. 770.69 RT. F.L. 773.85
STR. NO. 67 LT. F.L. 768.44 RT. F.L. 773.89
STR. NO. 68 ℄ F.L. 770.28 LT. F.L. 765.29
STR. NO. 70 ℄ F.L. 767.93 LT. F.L. 762.73
STR. NO. 71 LT. F.L. 762.31 RT. F.L. 762.71
STR. NO. 73 LT. F.L. 761.35 RT. F.L. 761.72
STR. NO. 74 ℄ F.L. 764.68
STR. NO. 76 ℄ F.L. 767.30 LT. F.L. 763.74
BALANCE NO. 3
SEE SHEET NO. 11
BALANCE NO. 4
CUT = 12,426 CYS
FILL +30% = 89,859 CYS (INCLUDES 11,469 CYS SUITABLE MATERIAL FOR SUBGRADE)
SPECIAL BORROW = 77,433 CYS
THIS BALANCE INCLUDES: CUT FILL + 30%
LINE "S-1-G" REV. 3478 CYS 11795 CYS
DITCH NO. 1 1370 CYS 65 CYS
BALANCE NO. 5
SEE FOLLOWING SHEET
PROJ. F-69(61) | LINE 6 | SHEET 16 | FILE

STATE HIGHWAY
DEPARTMENT OF INDIANA

SEC. 25 T. 26 N., R. 9 W.

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	17	183

GEORGE BUDREAU

KENNETH & ELIZABETH BUDREAU

(Corn Stubble)

(Plowed Ground)

(Plowed Ground)

102' L.A. R/W & A.C.L. F.F.T.F.

107' L.A. R/W & A.C.L. F.F.T.F.

125' L.A. R/W & A.C.L. F.F.T.F.

CONSTRUCTION LIMITS

LINE "6"

N. 41°-41' W.

41°25'

P.O.T. 240+99.5

P.O.T. 253+00
1 TYPE C MONUMENT REQ'D.

P.O.T. 256+30.8

STRUCTURE NO. 76
SEE PRECEDING SHEET.

STRUCTURE NO. 77
302' OF 8" GROUP "L" PIPE REQ'D.
CONNECT TO EXITING 8" F.T.
REMOVE EXISTING 8" F.T. WITHIN R/W.

STRUCTURE NO. 78
STD. INLET TYPE E-7
80' OF 12" GROUP "A" PIPE
(16 GA. F&C.C.S. WITH PI.)
& 1 HEADWALL REQ'D.

STRUCTURE NO. 79
STD. INLET TYPE E-7
78' OF 12" GROUP "A" PIPE
(16 GA. F&C.C.S. WITH PI.)
& 1 HEADWALL REQ'D.

STRUCTURE NO. 80
586' OF 8" GROUP "L" PIPE REQ'D.
CONNECT TO EXISTING 8" F.T.
REMOVE EXISTING 8" F.T.
WITHIN R/W. CONSTRUCT
TWO PARALLEL PIPES.

STRUCTURE NO. 81
STD. INLET TYPE E-7
70' OF 12" GROUP "A" PIPE
(16 GA. F&C.C.S. WITH PI.)
& 1 HEADWALL REQ'D.

STRUCTURE NO. 82
200' OF GROUP "G-1" PIPE (30° SKEW)
(14 GA. F&C.C.S. PIPE ARCH)
MIN. AREA = 2.3 SQ. FT.,
1 GROUP 15-1X12 TEE &
2 PIPE ARCH ANCHORS REQ'D.
RT. STA. 256+00 TO 263+00
DRAINS 118 AC 2=0.4

STRUCTURE NO. 83
STD. INLET TYPE E-7 &
8' OF 12" GROUP "A" PIPE
(16 GA. F&C.C.S. WITH PI.) REQ'D.
CONNECT TO STRUCTURE NO. 82

STRUCTURE NO. 84
258' OF 8" GROUP "L" PIPE REQ'D.
CONNECT TO EXISTING 8" F.T.
REMOVE EXISTING 8" F.T. WITHIN R/W

P.O.I. 240 + 99.5 (I.P.B.)

P.O.I. 256 + 30.8 (I.P.B.)

N.R.A.

SEC. 25 T. 26 N., R. 9 W.

B.M. 5 Elev. 770.16 Bl. Spk. In 5" Elder 138' Lt. Sta. 239+35

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "6"
POINTS OF ACCESS TO BE AS FOLLOWS:

BALANCE NO. 5

CUT	= 4,353	CYS. (INCLUDES 52 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30%	= 34,864	CYS. (INCLUDES 10,977 CYS. SUITABLE MATERIAL FOR SUBGRADE)
BORROW	= 2,710	CYS.
SPECIAL BORROW	= 27,801	CYS.
ABOVE BORROW INCLUDES:	2,710	CYS. FROM BALANCE NO. 8

BALANCE NO. 6

CUT	=	28,694 CYS. (INCLUDES 1340 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL + 30%	=	28,694 CYS. (INCLUDES 6942 CYS. SUITABLE MATERIAL FOR SUBGRADE)

515 S.Y. SODDING FOR DITCH REQ'D LT.

GRADE OF MEDIAN DITCH
(PLOTTED 10' ABOVE DATUM)

GRADE OF SPECIAL 3' BOTTOM DITCH RT.
(PLOTTED 10' BELOW DATUM)

GRADE OF SPECIAL 3' BOTTOM DITCH LT.

STR. NO. 78
LT. FL. 765.90
℄ FL. 767.40

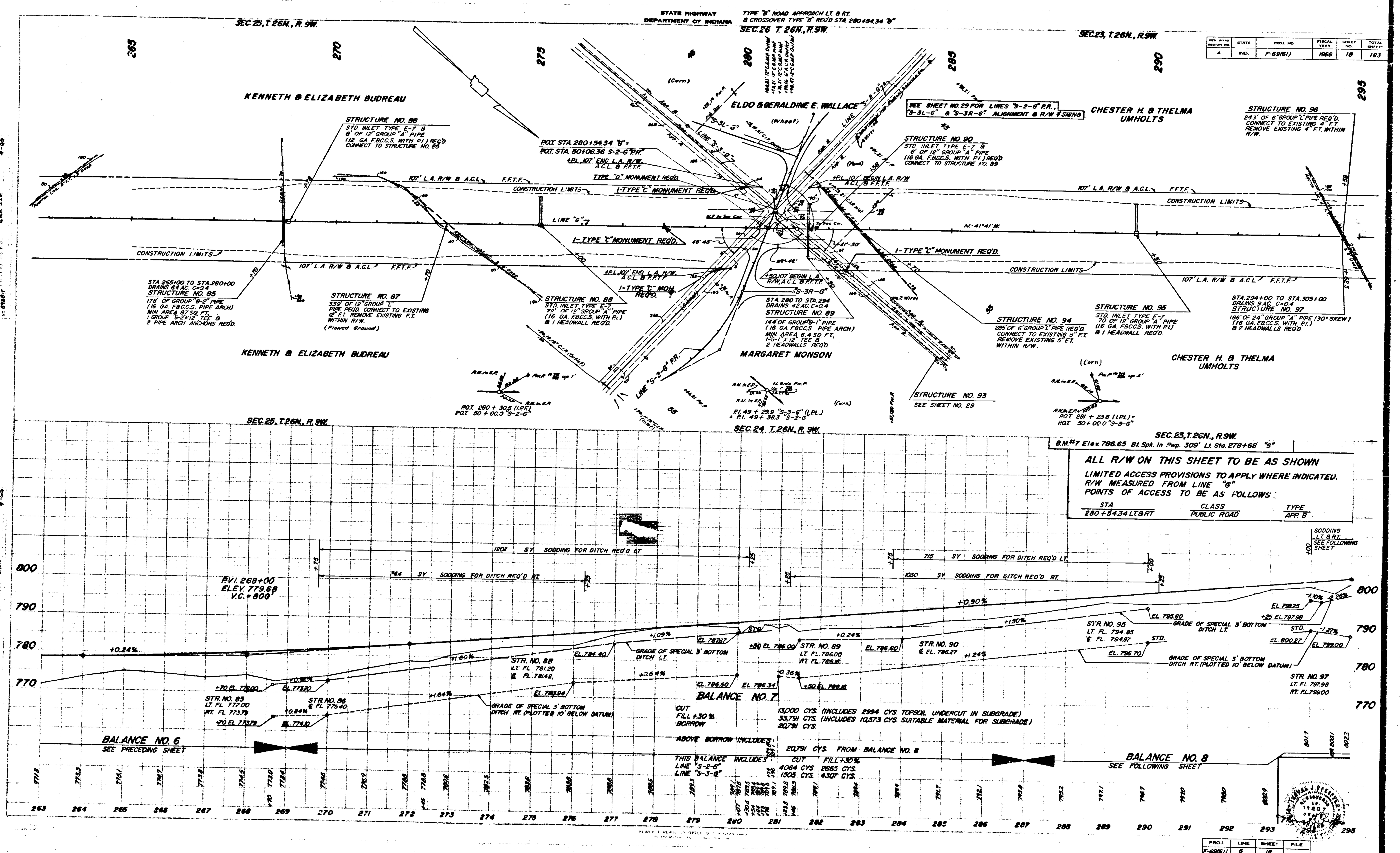
STR. NO. 79
LT. FL. 768.38
℄ FL. 769.08

STR. NO. 81
℄ FL. 772.26
RT. FL. 772.04

STR. NO. 82
LT. FL. 770.70
RT. FL. 771.36

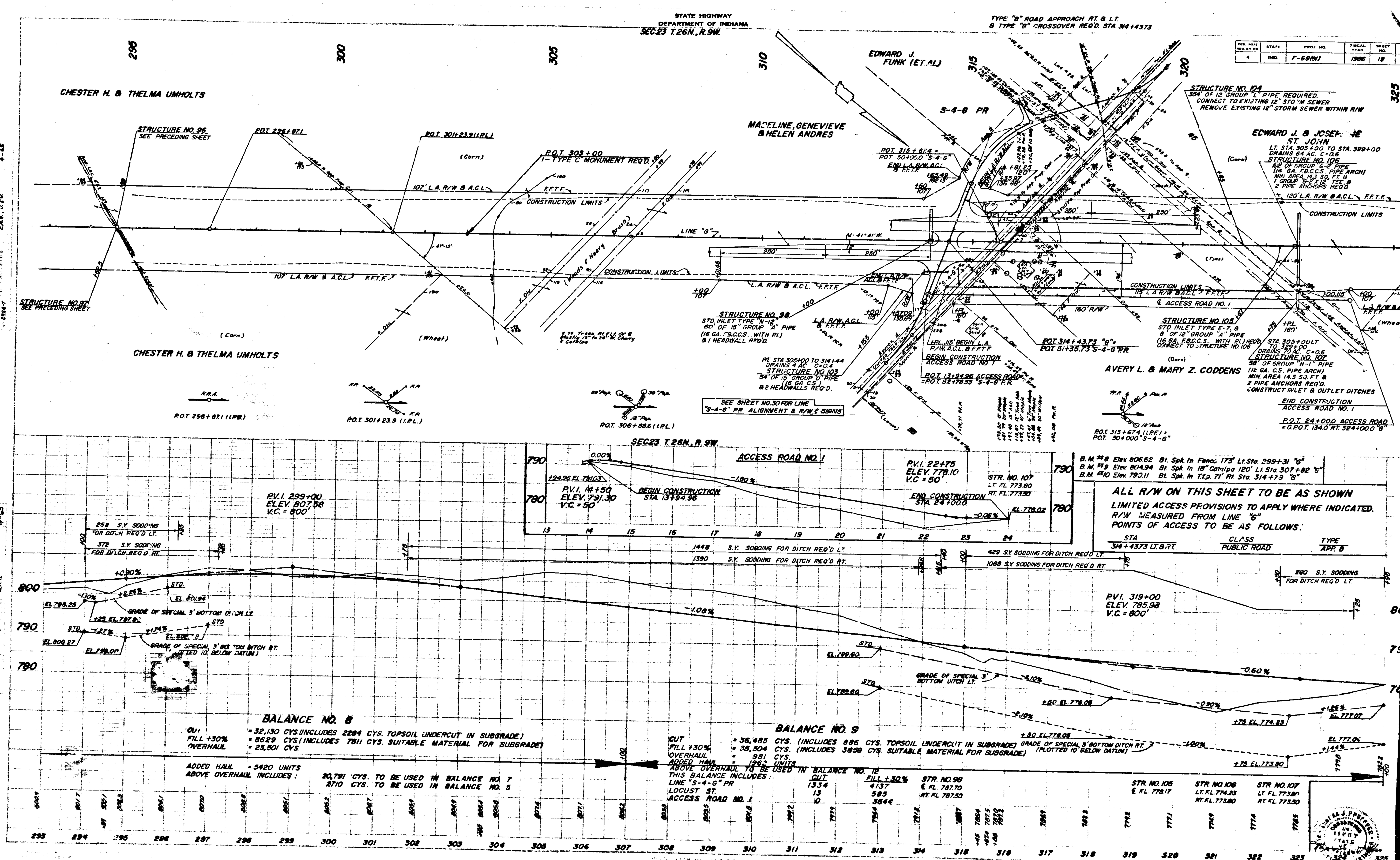
STR. NO. 83
℄ FL. 772.80

PROJ.	LINE	SHEET	FILE
F-69(61)	6	17	

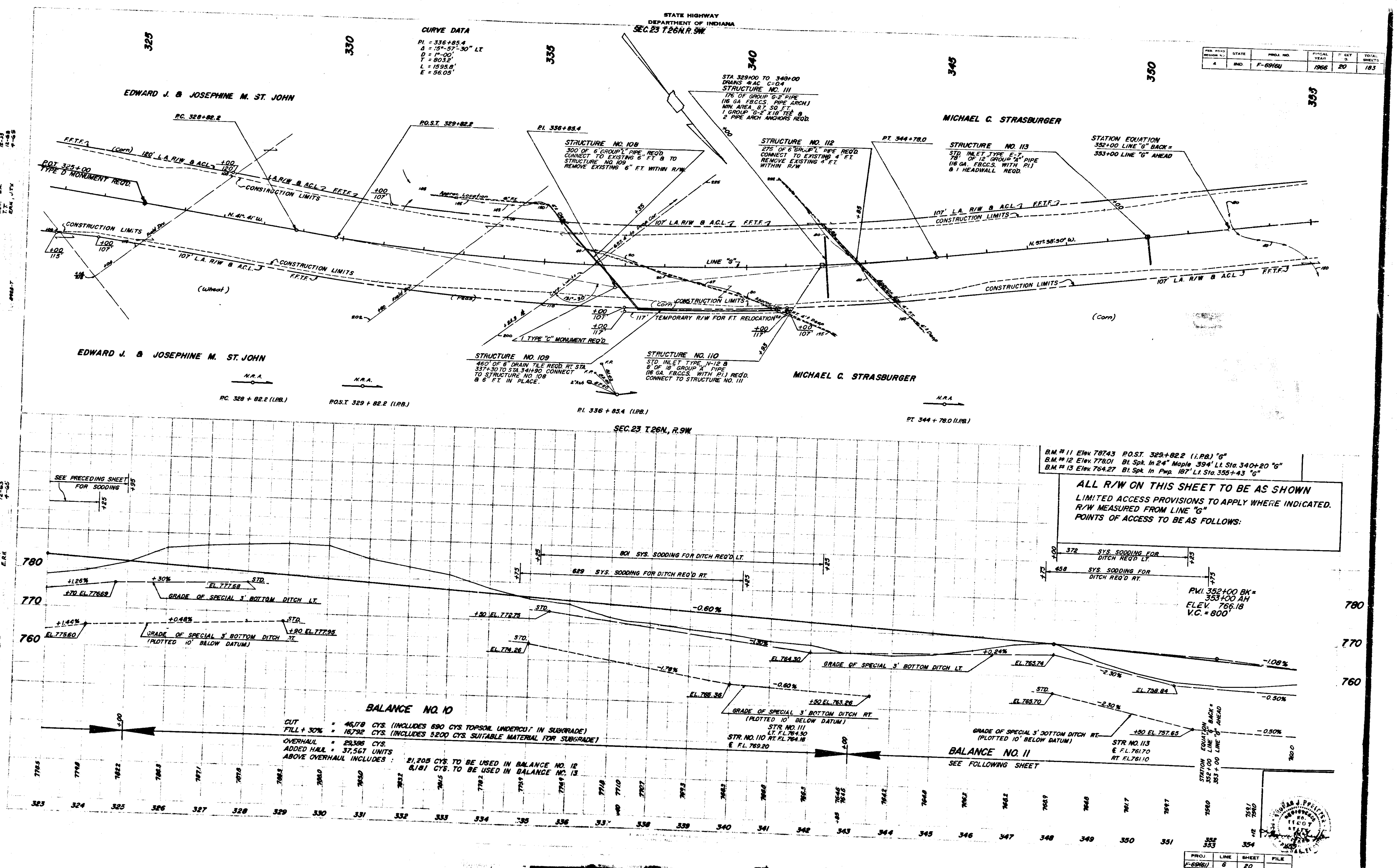

STATE HIGHWAY DEPARTMENT OF INDIANA
TYPE "B" ROAD APPROACH LT. & RT. & CROSSOVER TYPE "B" REQ'D STA. 280+54.34 "G"
SEC.25, T.26N., R.9W.
SEC.26 T.26N., R.9W.
SEC.23, T.26N., R.9W.
4 | IND. | F-69(61) | 1966 | 18 | 183
KENNETH & ELIZABETH BUDREAU
ELDO & GERALDINE E. WALLACE
SEE SHEET NO. 29 FOR LINES "S-2-G" P.R., "S-3L-G" & "S-3R-G" ALIGNMENT & R/W & SIGNS
CHESTER H. & THELMA UMHOLTS
STRUCTURE NO. 86
STD. INLET TYPE E-7 & 8' OF 12" GROUP "A" PIPE (12 GA. F.B.C.S. WITH P.I.) REQ'D CONNECT TO STRUCTURE NO. 85
P.O.T. STA. 280+54.34 "G" = P.O.T. STA. 50+08.36 S-2-G P.R.
STRUCTURE NO. 90
STD. INLET TYPE E-7 & 8' OF 12" GROUP "A" PIPE (16 GA. F.B.C.S. WITH P.I.) REQ'D CONNECT TO STRUCTURE NO. 89
STRUCTURE NO. 96
243' OF 6" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 4" F.T. REMOVE EXISTING 4" F.T. WITHIN R/W.
107' L.A. R/W & A.C.L.
F.F.T.F.
CONSTRUCTION LIMITS
I-TYPE "C" MONUMENT REQ'D.
TYPE "D" MONUMENT REQ'D.
LINE "G"
STA. 265+00 TO STA. 280+00 DRAINS 64 AC. C=0.4
STRUCTURE NO. 85
178' OF GROUP "G-2" PIPE (16 GA. F.B.C.S. PIPE ARCH) MIN. AREA 8.7 SQ. FT. 1 GROUP "G-2" X 12" TEE & 2 PIPE ARCH ANCHORS REQ'D.
STRUCTURE NO. 87
339' OF 12" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 12" F.T. REMOVE EXISTING F.T. WITHIN R/W. (Plowed Ground)
STRUCTURE NO. 88
STD. INLET TYPE E-7, 72' OF 12" GROUP "A" PIPE (16 GA. F.B.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STA. 280 TO STA. 294 DRAINS 42 AC. C=0.4
STRUCTURE NO. 89
144' OF GROUP "G-1" PIPE (16 GA. F.B.C.S. PIPE ARCH) MIN. AREA 6.4 SQ. FT. 1-G-1" X 12" TEE & 2 HEADWALLS REQ'D.
STRUCTURE NO. 94
285' OF 6" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 5" F.T. REMOVE EXISTING 5" F.T. WITHIN R/W.
STRUCTURE NO. 95
STD. INLET TYPE E-7, 70' OF 12" GROUP "A" PIPE (16 GA. F.B.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STA. 294+00 TO STA. 305+00 DRAINS 9 AC. C=0.4
STRUCTURE NO. 97
186' OF 24" GROUP "A" PIPE (30° SKEW) (16 GA. F.B.C.S. WITH P.I.) & 2 HEADWALLS REQ'D.
MARGARET MONSON
CHESTER H. & THELMA UMHOLTS
STRUCTURE NO. 93
SEE SHEET NO. 29
P.O.T. 280+30.6 (I.P.L.) P.O.T. 50+00.0 "S-2-G"
P.I. 49+29.9 "S-3-G" (I.P.L.) = P.I. 49+38.3 "S-3-G"
P.O.T. 281+23.8 (I.P.L.) = P.O.T. 50+00.0 "S-3-G"
SEC.25, T.26N., R.9W.
SEC.24 T.26N., R.9W.
SEC.23, T.26N., R.9W.
B.M. #7 Elev. 786.65 Bt. Spk. In Pwp. 309' Lt. Sta. 278+68 "G"
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. R/W MEASURED FROM LINE "G" POINTS OF ACCESS TO BE AS FOLLOWS:
STA. | CLASS | TYPE
280+54.34 LT. & RT. | PUBLIC ROAD | APP. B
1202 SY SODDING FOR DITCH REQ'D LT.
784 SY SODDING FOR DITCH REQ'D RT.
715 SY SODDING FOR DITCH REQ'D LT.
1030 SY SODDING FOR DITCH REQ'D RT.
SODDING LT. & RT. SEE FOLLOWING SHEET
P.V.I. 268+00 ELEV. 779.60 V.C. = 800'
+0.24%
+0.90%
+1.09%
+1.50%
+0.24%
+1.60%
+0.64%
+1.64%
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
STR. NO. 85 LT. FL. 772.00 RT. FL. 773.79
STR. NO. 86 ℄ FL. 775.40
STR. NO. 88 LT. FL. 781.20 ℄ FL. 781.42
STR. NO. 89 LT. FL. 786.00 RT. FL. 786.16
STR. NO. 90 ℄ FL. 786.27
STR. NO. 95 LT. FL. 794.85 ℄ FL. 794.97
STR. NO. 97 LT. FL. 797.98 RT. FL. 799.00
BALANCE NO. 7
CUT 13,000 CYS. (INCLUDES 2994 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% 33,791 CYS. (INCLUDES 10,573 CYS. SUITABLE MATERIAL FOR SUBGRADE)
BORROW 20,791 CYS.
ABOVE BORROW INCLUDES 20,791 CYS. FROM BALANCE NO. 8
THIS BALANCE INCLUDES | CUT | FILL +30%
LINE "S-2-G" | 4064 CYS. | 2665 CYS.
LINE "S-3-G" | 1505 CYS. | 4307 CYS.
BALANCE NO. 6 SEE PRECEDING SHEET
BALANCE NO. 8 SEE FOLLOWING SHEET
800 790 780 770
263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 295
PROJ. | LINE | SHEET | FILE
F-69(61) | G | 18 |

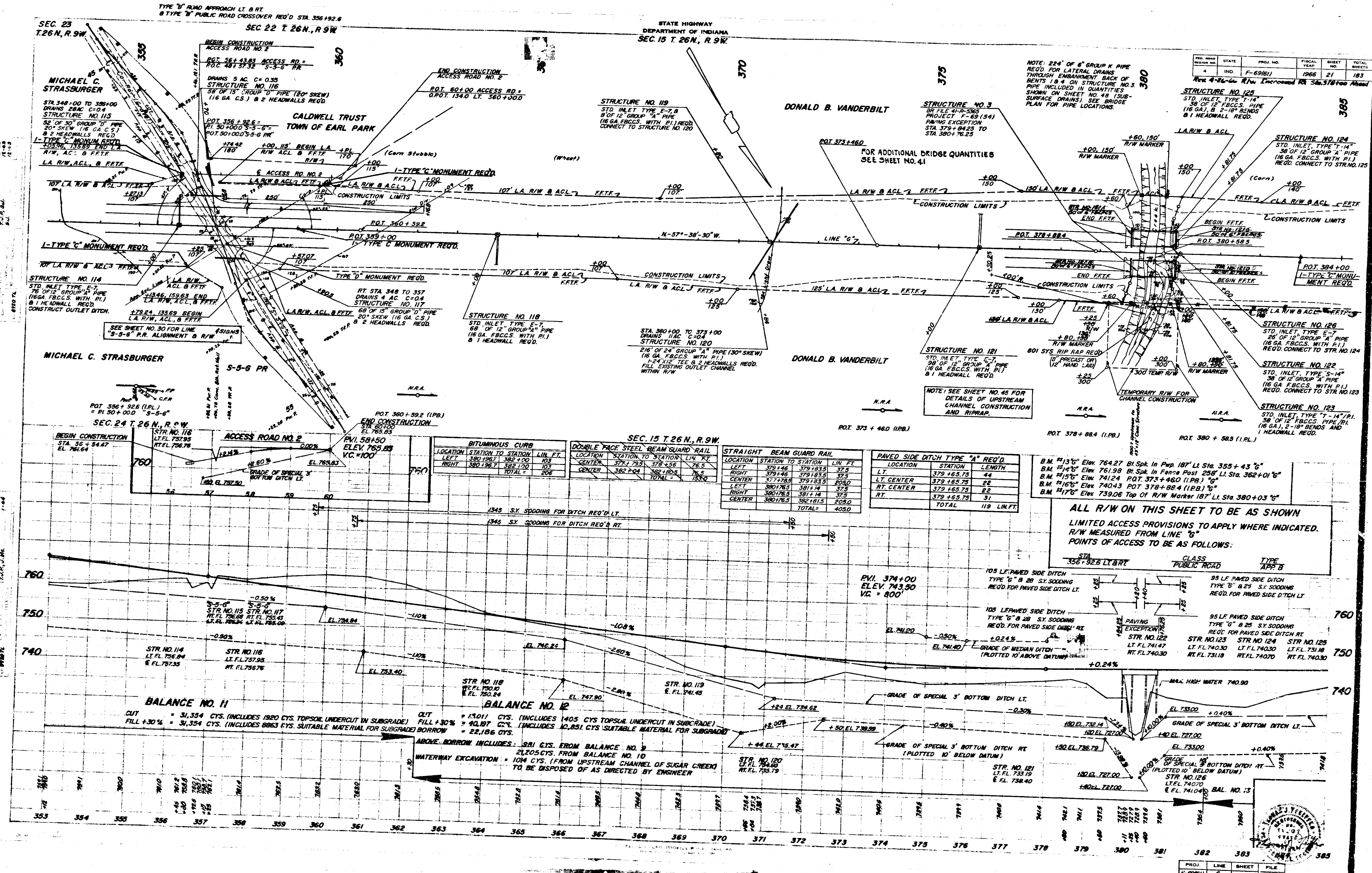
STATE HIGHWAY
DEPARTMENT OF INDIANA

FED. ROAD REG.ON NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	19	183



PROJ.	LINE	SHEET	FILE
F-69(61)	6	19	


STATE HIGHWAY DEPARTMENT OF INDIANA
SEC. 23 T.26N. R.9W.
FED. ROAD REGION NO. 4 | STATE IND. | PROJ. NO. F-69(61) | FISCAL YEAR 1966 | SHEET NO. 20 | TOTAL SHEETS 183
CURVE DATA
P.I. = 336+85.4
Δ = 15°-57'-30" LT.
D = 1°-00'
T = 803.2'
L = 1595.8'
E = 56.05'
EDWARD J. & JOSEPHINE M. ST. JOHN
MICHAEL C. STRASBURGER
P.O.T. 325+00 TYPE D MONUMENT REQ'D.
P.C. 328+82.2
P.O.S.T. 329+82.2
P.I. 336+85.4
P.T. 344+78.0
STA. 329+00 TO 349+00
STRUCTURE NO. 111
STRUCTURE NO. 108
300' OF 6" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 6" F.T. & TO STRUCTURE NO. 109 REMOVE EXISTING 6" F.T. WITHIN R/W.
STRUCTURE NO. 112
275' OF 6" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 4" F.T. REMOVE EXISTING 4" F.T. WITHIN R/W
STRUCTURE NO. 113
STD. INLET TYPE E-7, 78' OF 12" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STATION EQUATION 352+00 LINE "G" BACK = 353+00 LINE "G" AHEAD
STRUCTURE NO. 109
460' OF 6" DRAIN TILE REQ'D. RT. STA. 337+30 TO STA. 341+90 CONNECT TO STRUCTURE NO. 108 & 6" F.T. IN PLACE.
STRUCTURE NO. 110
STD. INLET TYPE N-12 & 8' OF 18" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) REQ'D. CONNECT TO STRUCTURE NO. 111
1 TYPE "C" MONUMENT REQ'D.
117' TEMPORARY R/W FOR F.T. RELOCATION
CONSTRUCTION LIMITS
LINE "G"
(Corn) (Wheat) (Peas)
P.C. 328 + 82.2 (I.P.B.)
P.O.S.T. 329 + 82.2 (I.P.B.)
P.I. 336 + 85.4 (I.P.B.)
P.T. 344 + 78.0 (I.P.B.)
B.M. # 11 Elev. 787.43 P.O.S.T. 329+82.2 (I.P.B.) "G"
B.M. # 12 Elev. 778.01 Bt. Spk. in 24" Maple 394' Lt. Sta. 340+20 "G"
B.M. # 13 Elev. 764.27 Bt. Spk. in Pwp. 187' Lt. Sta. 355+43 "G"
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "G"
POINTS OF ACCESS TO BE AS FOLLOWS:
SEE PRECEDING SHEET FOR SODDING
801 SYS. SODDING FOR DITCH REQ'D LT.
629 SYS. SODDING FOR DITCH REQ'D RT.
372 SYS. SODDING FOR DITCH REQ'D LT.
458 SYS. SODDING FOR DITCH REQ'D RT.
P.V.I. 352+00 BK = 353+00 AH
ELEV. 766.18
V.C. = 800'
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
-0.60%
BALANCE NO. 10
CUT = 46,178 CYS. (INCLUDES 690 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL + 30% = 16,792 CYS. (INCLUDES 5200 CYS. SUITABLE MATERIAL FOR SUBGRADE)
OVERHAUL = 29,386 CYS.
ADDED HAUL = 37,567 UNITS
ABOVE OVERHAUL INCLUDES: 21,205 CYS. TO BE USED IN BALANCE NO. 12
8,181 CYS. TO BE USED IN BALANCE NO. 13
BALANCE NO. 11
SEE FOLLOWING SHEET
STR. NO. 111
STR. NO. 110
STR. NO. 113
PROJ. F-69(61) | LINE 6 | SHEET 20 | FILE



BITUMINOUS CURB			
LOCATION	STATION TO	STATION	LIN. FT.
LEFT	380+96.7	382+00	103
RIGHT	380+96.7	382+00	103
		TOTAL =	206

DOUBLE FACE STEEL BEAM GUARD RAIL			
LOCATION	STATION TO	STATION	LIN. FT.
CENTER	377+79.5	378+56	76.5
CENTER	382+04	382+80.5	76.5
		TOTAL =	153.0

STRAIGHT BEAM GUARD RAIL			
LOCATION	STATION TO	STATION	LIN. FT.
LEFT	379+46	379+83.5	37.5
RIGHT	379+46	379+83.5	37.5
CENTER	377+78.5	379+83.5	205.0
LEFT	380+76.5	381+14	37.5
RIGHT	380+76.5	381+14	37.5
CENTER	380+76.5	382+81.5	205.0
		TOTAL=	405.0

PAVED SIDE DITCH TYPE "A" REQ'D.		
LOCATION	STATION	LENGTH
LT.	379+65.75	44
LT. CENTER	379+65.75	22
RT. CENTER	379+65.75	22
RT.	379+65.75	31
	TOTAL	119 LIN. FT.

B.M. #13"G" Elev. 764.27 Bt. Spk. In Pwp. 187' Lt. Sta. 355+43 "G"
B.M. #14"G" Elev. 761.98 Bt. Spk. In Fence Post 258' Lt. Sta. 362+01 "G"
B.M. #15"G" Elev. 741.24 P.O.T. 373+46.0 (I.P.B.) "G"
B.M. #16"G" Elev. 740.43 P.O.T. 378+88.4 (I.P.B.) "G"
B.M. #17"G" Elev. 739.06 Top Of R/W Marker 187' Lt. Sta. 380+03 "G"

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "G"
POINTS OF ACCESS TO BE AS FOLLOWS:

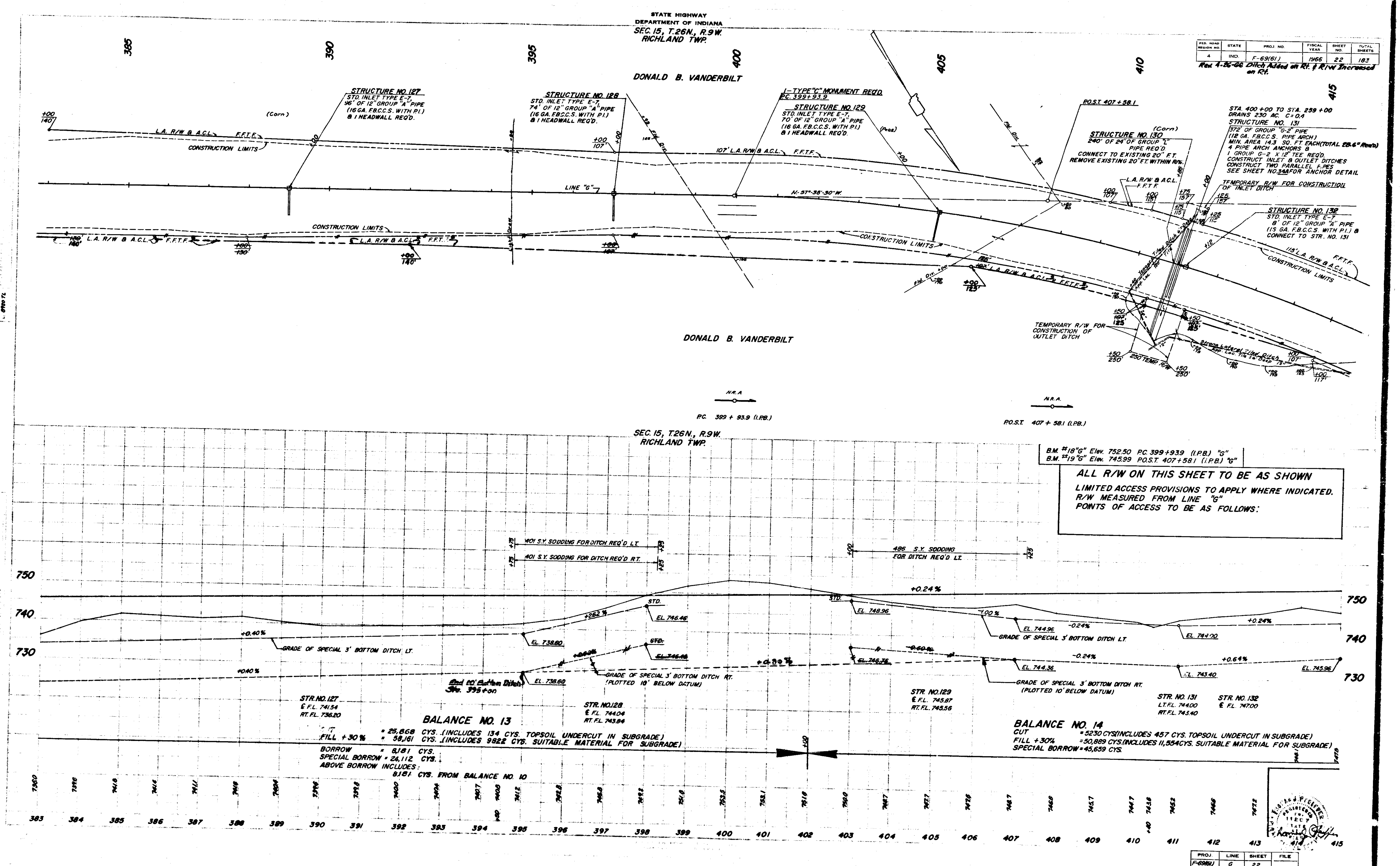
STA.	CLASS	TYPE
356+92.6 LT. & RT.	PUBLIC ROAD	APP. B

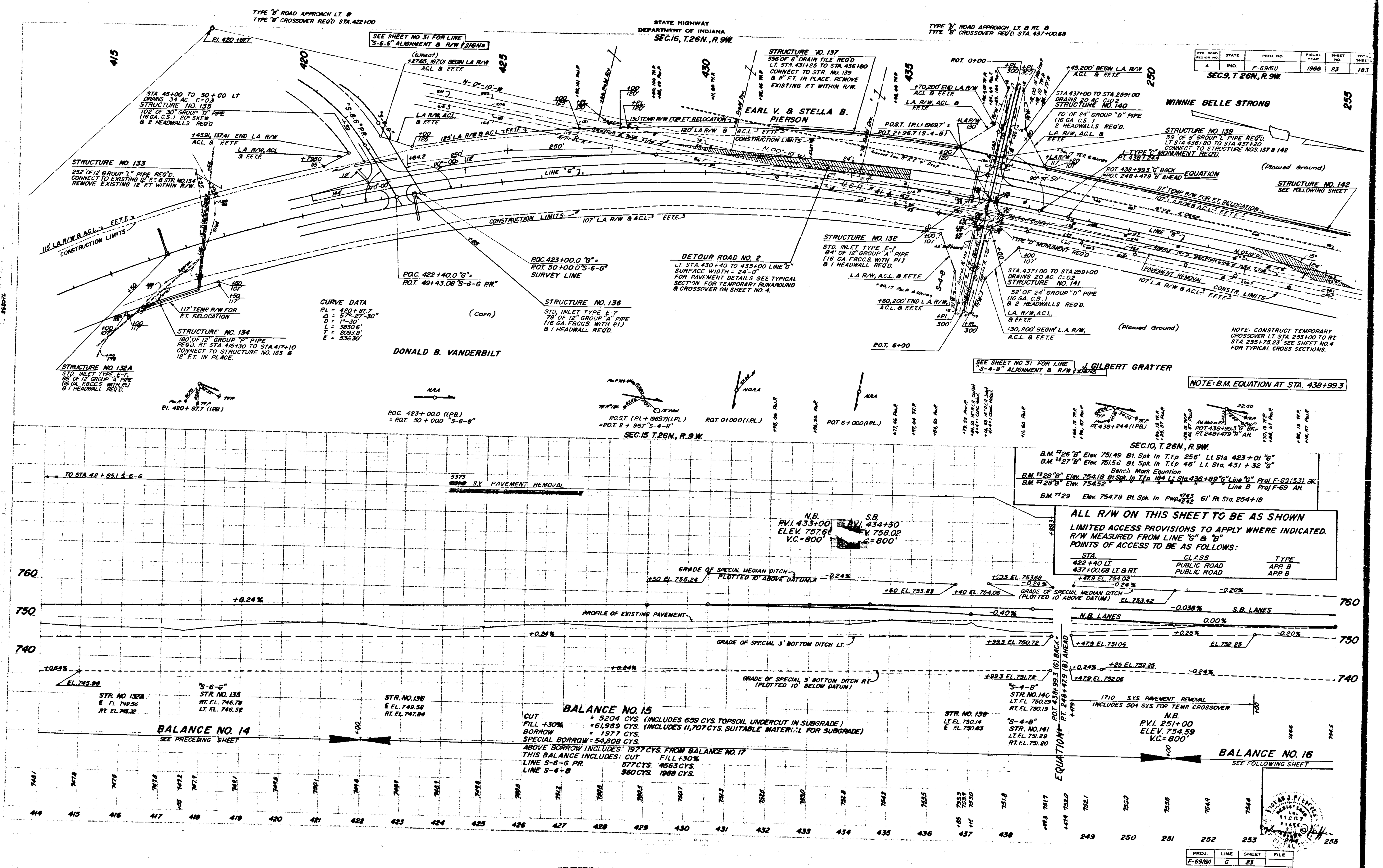
BALANCE NO. 11
CUT = 31,354 CYS. (INCLUDES 1920 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 31,354 CYS. (INCLUDES 8863 CYS. SUITABLE MATERIAL FOR SUBGRADE)

BALANCE NO. 12
CUT = 13,011 CYS. (INCLUDES 1405 CYS TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 40,197 CYS. (INCLUDES 10,851 CYS SUITABLE MATERIAL FOR SUBGRADE)
BORROW = 22,186 CYS.
ABOVE BORROW INCLUDES: 981 CYS. FROM BALANCE NO. 9
21,205 CYS. FROM BALANCE NO. 10
WATERWAY EXCAVATION = 1014 CYS. (FROM UPSTREAM CHANNEL OF SUGAR CREEK) TO BE DISPOSED OF AS DIRECTED BY ENGINEER

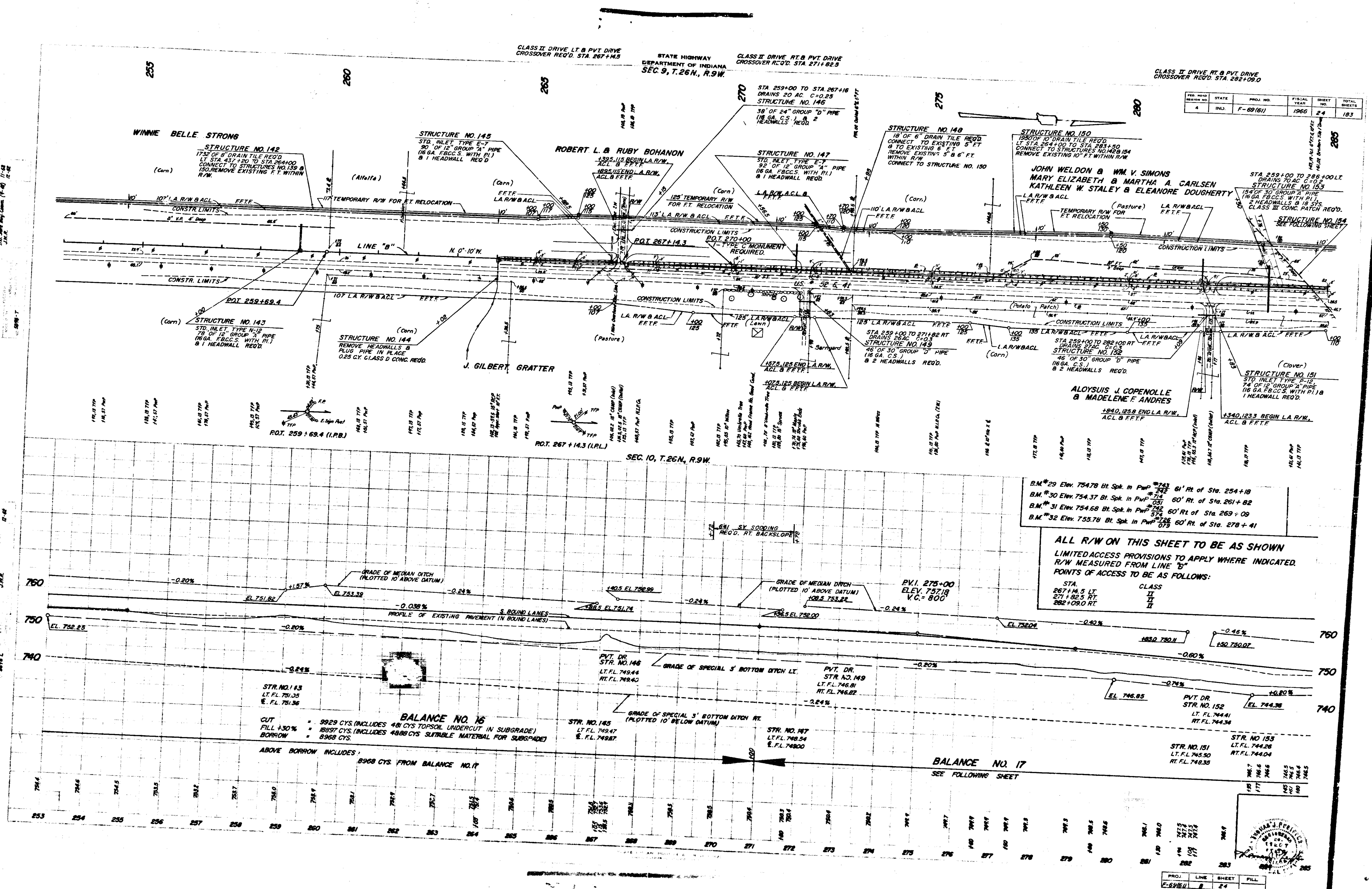
STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
IND.	F-69(61)	1966	21	183

PROJ.	LINE	SHEET	FILE
F-69(61)	G	21	


STATE HIGHWAY DEPARTMENT OF INDIANA
SEC. 15, T.26N., R.9W. RICHLAND TWP.
| FED. ROAD REGION NO. | STATE | PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
| 4 | IND. | F-69(61) | 1966 | 22 | 183 |
Rev. 4-26-66 Ditch Added on Rt. & R/W Increased on Rt.
DONALD B. VANDERBILT
STRUCTURE NO. 127
STD. INLET TYPE E-7, 96' OF 12" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
STRUCTURE NO. 128
STD. INLET TYPE E-7, 74' OF 12" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
1-TYPE "C" MONUMENT REQ'D. P.C. 399+93.9
STRUCTURE NO. 129
STD. INLET TYPE E-7, 70' OF 12" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.
P.O.S.T. 407+58.1
STRUCTURE NO. 130
240' OF 24" OF GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 20" F.T. REMOVE EXISTING 20" F.T. WITHIN R/W.
STA. 400+00 TO STA. 259+00 DRAINS 230 AC. C=0.4
STRUCTURE NO. 131
372' OF GROUP "G-2" PIPE (12 GA. F.B.C.C.S. PIPE ARCH) MIN. AREA 14.3 SQ. FT. EACH (TOTAL 28.6" Req'd) 4 PIPE ARCH ANCHORS & 1 GROUP G-2 X 12" TEE REQ'D. CONSTRUCT INLET & OUTLET DITCHES CONSTRUCT TWO PARALLEL F.PES SEE SHEET NO. 34A FOR ANCHOR DETAIL
TEMPORARY R/W FOR CONSTRUCTION OF INLET DITCH
STRUCTURE NO. 132
STD. INLET TYPE E-7 8' OF 12" GROUP "A" PIPE (15 GA. F.B.C.C.S. WITH P.I.) & CONNECT TO STR. NO. 131
TEMPORARY R/W FOR CONSTRUCTION OF OUTLET DITCH
L.A. R/W & A.C.L.
F.F.T.F.
CONSTRUCTION LIMITS
LINE "G"
N. 57° 35' 30" W.
P.C. 399+93.9 (I.P.B.)
P.O.S.T. 407+58.1 (I.P.B.)
B.M. #18 "G" Elev. 752.50 P.C. 399+939 (I.P.B.) "G"
B.M. #19 "G" Elev. 745.99 P.O.S.T. 407+581 (I.P.B.) "G"
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "G"
POINTS OF ACCESS TO BE AS FOLLOWS:
401 S.Y. SODDING FOR DITCH REQ'D LT.
401 S.Y. SODDING FOR DITCH REQ'D RT.
486 S.Y. SODDING FOR DITCH REQ'D LT.
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
STR. NO. 127 ℄ F.L. 741.54 RT. F.L. 736.20
STR. NO. 128 ℄ F.L. 744.04 RT. F.L. 743.84
STR. NO. 129 ℄ F.L. 745.87 RT. F.L. 745.56
STR. NO. 131 LT. F.L. 744.00 RT. F.L. 743.40
STR. NO. 132 ℄ F.L. 747.00
BALANCE NO. 13
CUT = 25,868 CYS. (INCLUDES 134 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 58,161 CYS. (INCLUDES 9822 CYS. SUITABLE MATERIAL FOR SUBGRADE)
BORROW = 8,181 CYS.
SPECIAL BORROW = 24,112 CYS.
ABOVE BORROW INCLUDES: 8,181 CYS. FROM BALANCE NO. 10
BALANCE NO. 14
CUT = 5230 CYS. (INCLUDES 457 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 50,889 CYS. (INCLUDES 11,554 CYS. SUITABLE MATERIAL FOR SUBGRADE)
SPECIAL BORROW = 45,659 CYS.
| PROJ. | LINE | SHEET | FILE |
| F-69(61) | G | 22 | |



STATE HIGHWAY
DEPARTMENT OF INDIANA
SEC.16, T.26N., R.9W.
SEC.9, T.26N., R.9W.
SEC.15 T.26N., R.9W.
SEC.10, T.26N., R.9W.
4 IND. F-69(51) 1966 23 183
TYPE "B" ROAD APPROACH LT. & TYPE "B" CROSSOVER REQ'D. STA. 422+00
TYPE "B" ROAD APPROACH LT. & RT. & TYPE "B" CROSSOVER REQ'D. STA. 437+00.68
SEE SHEET NO. 31 FOR LINE "S-6-G" ALIGNMENT & R/W SIGNS
SEE SHEET NO. 31 FOR LINE "S-4-B" ALIGNMENT & R/W SIGNS
EARL V. & STELLA B. PIERSON
WINNIE BELLE STRONG
DONALD B. VANDERBILT
J. GILBERT GRATTER
STRUCTURE NO. 133
STRUCTURE NO. 135
STRUCTURE NO. 137
STRUCTURE NO. 140
STRUCTURE NO. 139
STRUCTURE NO. 142 SEE FOLLOWING SHEET
STRUCTURE NO. 138
STRUCTURE NO. 141
STRUCTURE NO. 136
STRUCTURE NO. 134
STRUCTURE NO. 132A
DETOUR ROAD NO. 2
CURVE DATA
P.I. = 420+87.7
Δ = 57°-57'-30"
D = 1°-30'
L = 3830.6'
T = 2093.8'
E = 538.30'
NOTE: B.M. EQUATION AT STA. 438+99.3
NOTE: CONSTRUCT TEMPORARY CROSSOVER LT. STA. 253+00 TO RT. STA. 255+75.23 SEE SHEET NO. 4 FOR TYPICAL CROSS SECTIONS.
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "G" & "B"
POINTS OF ACCESS TO BE AS FOLLOWS:
STA. 422+40 LT — CLASS PUBLIC ROAD — TYPE APP B
437+00.68 LT & RT — PUBLIC ROAD — APP B
BALANCE NO. 14 SEE PRECEDING SHEET
BALANCE NO. 15
CUT = 5204 CYS. (INCLUDES 659 CYS. TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 61,989 CYS. (INCLUDES 11,707 CYS. SUITABLE MATERIAL FOR SUBGRADE)
BORROW = 1977 CYS.
SPECIAL BORROW = 54,808 CYS.
ABOVE BORROW INCLUDES: 1977 CYS. FROM BALANCE NO. 17
THIS BALANCE INCLUDES: CUT FILL +30%
LINE S-6-G PR. 577 CYS. 4563 CYS.
LINE S-4-B 560 CYS. 1988 CYS.
BALANCE NO. 16 SEE FOLLOWING SHEET
N.B. P.V.I. 433+00 ELEV. 757.61 V.C.= 800'
S.B. P.V.I. 434+50 ELEV. 758.02 V.C.= 800'
N.B. P.V.I. 251+00 ELEV. 754.59 V.C.= 800'
EQUATION
PROJ. F-69(51) LINE G SHEET 23


STATE HIGHWAY DEPARTMENT OF INDIANA
SEC. 9, T.26N., R.9W.
FED. ROAD REGION NO. 4 | STATE IND. | PROJ. NO. F-69(61) | FISCAL YEAR 1966 | SHEET NO. 24 | TOTAL SHEETS 183
CLASS II DRIVE LT. & PVT. DRIVE CROSSOVER REQ'D. STA. 267+14.5
CLASS II DRIVE RT. & PVT. DRIVE CROSSOVER REQ'D. STA. 271+82.5
CLASS II DRIVE RT. & PVT. DRIVE CROSSOVER REQ'D. STA. 282+09.0
WINNIE BELLE STRONG
ROBERT L. & RUBY BOHANON
J. GILBERT GRATTER
JOHN WELDON & WM. V. SIMONS
MARY ELIZABETH & MARTHA A. CARLSEN
KATHLEEN W. STALEY & ELEANORE DOUGHERTY
ALOYSUIS J. COPENOLLE & MADELENE F. ANDRES
STRUCTURE NO. 142
STRUCTURE NO. 143
STRUCTURE NO. 144
STRUCTURE NO. 145
STRUCTURE NO. 146
STRUCTURE NO. 147
STRUCTURE NO. 148
STRUCTURE NO. 149
STRUCTURE NO. 150
STRUCTURE NO. 151
STRUCTURE NO. 152
STRUCTURE NO. 153
STRUCTURE NO. 154 SEE FOLLOWING SHEET
LINE "B"
CONSTRUCTION LIMITS
P.O.T. 259+69.4
P.O.T. 267+14.3
P.O.T. 270+00 1-TYPE C MONUMENT REQUIRED.
U.S. 52 & 41
SEC. 10, T.26N., R.9W.
B.M. #29 Elev. 754.78 Bt. Spk. in PwP 61' Rt. of Sta. 254+18
B.M. #30 Elev. 754.37 Bt. Spk. in PwP 60' Rt. of Sta. 261+82
B.M. #31 Elev. 754.68 Bt. Spk. in PwP 60' Rt. of Sta. 269+09
B.M. #32 Elev. 755.78 Bt. Spk. in PwP 60' Rt. of Sta. 278+41
ALL R/W ON THIS SHEET TO BE AS SHOWN
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
R/W MEASURED FROM LINE "B"
POINTS OF ACCESS TO BE AS FOLLOWS:
STA. CLASS
267+14.5 LT. II
271+82.5 RT. II
282+09.0 RT. II
P.V.I. 275+00
ELEV. 757.18
V.C. = 800'
GRADE OF MEDIAN DITCH (PLOTTED 10' ABOVE DATUM)
PROFILE OF EXISTING PAVEMENT (N BOUND LANES)
S. BOUND LANES
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
BALANCE NO. 16
CUT = 9929 CYS. (INCLUDES 481 CYS TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 18897 CYS. (INCLUDES 4888 CYS SUITABLE MATERIAL FOR SUBGRADE)
BORROW = 8968 CYS.
ABOVE BORROW INCLUDES 8968 CYS. FROM BALANCE NO. 17
BALANCE NO. 17
SEE FOLLOWING SHEET
PROJ. F-69(61) | LINE B | SHEET 24

STATE HIGHWAY DEPARTMENT OF INDIANA

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	25	183

CLASS II DRIVE LT. & PVT. DRIVE CROSSOVER REQ'D. STA. 289+16

SEC. 9, T.26N., R.9W.

STRUCTURE NO. 156
276' OF 6" DRAIN TILE REQ'D. LT. STA. 283+50 TO STA. P.86+25. CONNECT TO STRUCTURE NO. 154 AND EXISTING 6" FT. REMOVE EXISTING 6" FT. LEFT OF EXISTING PAVEMENT.

STRUCTURE NO. 154
195' OF 10" GROUP "L" PIPE REQ'D. CONNECT TO STRUCTURE NO. 150 & 156 TO EXISTING 10" FT. AT LT. EDGE OF EXISTING PAVEMENT. REMOVE EXISTING 6" FT. & DITCH IN PLACE.

DO NOT REMOVE WOODEN SHACK (F-64156).

140' TEMPORARY R/W FOR BUILDING REMOVAL

(Pasture) TEMPORARY R/W FOR FARM FT RELOCATION

(Pasture) L.A. R/W & A.C.L. F.F.T.F.

CONSTRUCTION LIMITS

STRUCTURE NO. 155
PLUS EXISTING 1-PIPE IN PLACE. 0.3 CY. CLASS D CONC. REQ'D.

L.A. R/W & A.C.L. F.F.T.F.

STRUCTURE NO. 153 SEE PRECEDING SHEET

ALOYSUIS J. COPENOLLE & MADELEN F. ANDRES

THOMAS G. & RICHARD F. CARTON

JOHN WELDON & WM. V. SIMONS
MARY ELIZABETH & MARTHA A. CARLSEN
KATHLEEN W. STALEY & ELANORE A. CARLSEN

STRUCTURE NO. 157
STD. INLET TYPE E-7, 56' OF 12" GROUP "A" PIPE (16 GA. F.B.C.C.S. WITH P.I.) & 1 HEADWALL REQ'D.

STRUCTURE NO. 158
70' OF 12" GROUP "D" PIPE REQ'D. (16 GA. C.M.P.) (Soybeans)

+91.100 END L.A. R/W, A.C.L. & F.F.T.F.

+41 BEGIN L.A. R/W, A.C.L. & F.F.T.F.

P.O.T. 289+17.2 O.P.O.T. 4.0' LT.

P.O.T. 294+16.3

F.F.T.F.

100' L.A. R/W & A.C.L.

LINE "B"

N.0°-10' W.

P.O.T. 287+43.3 O.P.O.T. 4.0' LT.

REMOVE PIPE IN PLACE

P.C. 293+63.7

L.A. R/W & A.C.L. F.F.T.F.

(Soybeans)

END F-PROJECT 69 (61)
STATION 290+00
BEGIN F-PROJECT 69 (58)

+PL. 175' END L.A. R/W, A.C.L. & F.F.T.F.

P.O.T. 0+00

L.A. R/W & A.C.L. F.F.T.F.

P.O.S.T. 299+50.4 "B"
P.I. 3+00 "S-3-B"

STRUCTURE NO. 159
34 OF 15" GROUP "D" PIPE REQ'D. (16 GA. C.S.)

90°-35'

90°-04'

L.A. R/W & A.C.L. F.F.T.F.

+PL. 175' END L.A. R/W, A.C.L. & F.F.T.F.

P.O.T. 5+00

NOTE: SEE SHEET NO. 42A FOR DETAILS OF CROSS-OVER LANE

CURVE DATA
P.I. = 299+88.7
Δ = 0°-23' RT.
D = 0°-02'
T = 625.00'
L = 1250.00'
E = 1.14'

P.O.T. 287+43.3 (IPL) O.P.O.T. 40' L (IPL)

P.O.T. 289+17.2 (IPB) O.P.O.T. 4.0' L (IPB)

P.C. 293+63.7 (IPB) P.O.S.T. 294+16.3 (IPB)

P.O.T. 0+00 (IPB)

P.O.T. 5+00 (IPL) S-5-B

299+50 (I.P.L.) P.I. 3+00 (I.P.L.)

P.I. 299+88.7

B.M.#33 Elev. 753.30 Bl. Spk. in 30" Osage Orange 125' Lt. of Sta. 285+52
B.M.#34 Elev. 741.66 Bl. Spk. in Tfp. 177' Rt. of Sta. 299+30

SEC. 10, T.26N., R.9W.

202 S.Y. SLOPING REGION +LT. BACKSLOPES

INCIDENTAL CONSTRUCTION

+50 EL. 750.02

GRADE OF MEDIAN DITCH (PLOTTED 10' ABOVE DATUM)

-0.46%

+80 EL. 747.13

+43.5 EL. 745.80

-0.60%

S. BOUND LANES

-0.74%

EL. 744.26

+0.20%

GRADE OF SPECIAL 3' BOTTOM DITCH LT.

+90 EL. 748.34

GRADE OF SPECIAL MEDIAN DITCH (PLOTTED 10' ABOVE DATUM.)

-0.50%

EL. 744.22

+0.50%

EL. 745.22

PROFILE OF EXISTING PAVEMENT (N. BOUND LANES)

+60 EL. 745.00

-0.92%

EL. 740.95

-0.42%

+36 EL. 738.70

+0.24%

EL. 742.96

-0.28%

GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)

EL. 742.40

EXISTING DITCH

STR. NO. 157
LT. EL. 745.34
E. EL. 745.63

STR. NO. 158
LT. EL. 742.78
E. EL. 744.22

STR. NO. 159
RT. EL. 738.70
LT. EL. 738.50

BALANCE NO. 17

CUT = 25,756 CYS (INCLUDES 719 CYS TOPSOIL UNDERCUT IN SUBGRADE)
FILL +30% = 12,811 CYS (INCLUDES 5489 CYS SUITABLE MATERIAL FOR SUBGRADE)
OVER HAUL = 10,965 CYS
ADDED HAUL = 1977 UNITS
ABOVE OVERHAUL INCLUDES: 1977 CYS TO BE USED IN BALANCE NO. 15
8968 CYS TO BE USED IN BALANCE NO. 16

750 740 730

283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED R/W MEASURED FROM LINE "B"
POINTS OF ACCESS TO BE AS FOLLOWS:

STA.	CLASS
289+16 LT	II

PROJ	LINE	SHEET	FILE
F-69(61)	B	25	

FED. ROAD SEQUN. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	26	183

STATE HIGHWAY
DEPARTMENT OF INDIANA
SEC. 36 T. 26N., R. 9W.

490 495 500 505 510 515

P.O.T. 490+08.2 =
P.C. 490+08.2 USR-41-GR

P.I. 493+33.8 =
P.O.S.T. 493+33.8 USR-41-GR

NOTE: FOR R/W INFORMATION & DIMENSIONS SEE SHEET NO. 33

ISABEL BUDREAU

L.A. R/W & A.C.L. F.F.T.F.

R.,L.A. R/W & A.C.L. F.F.T.F.

N. 0°-28' W.

LINE USR-41-GL

Δ = 0°-07'-01"

N. 0°-16' W.

P.O.T. 512+56.3

+R.,R END L.A. R/W A.C.L. & F.F.T.F.

+R.,R BEGIN L.A. R/W, A.C.L. & F.F.T.F.

+R.,70 GL PR

THOMAS A. BARRETT

WATLAND FARMS, INC.

STATE OF INDIANA

NOTE: EXISTING GRADE SEPARATION STRUCTURE TO BE REMOVED AND DISPOSED OF BY THE CONTRACTOR. EXISTING APPROACH FILLS TO BE REMOVED TO ELEVATIONS SHOWN ON CROSS SECTIONS AND EXCAVATED MATERIAL IS TO BE USED IN EMBANKMENT FOR LINE "U.S.R. 41" P.R.

P.O.T. 490+08.2 (O.H.) =
P.C. 490+08.2 USR-41-GR

P.I. 493+33.8 (PK.N.) =
P.O.S.T. 493+33.8 USR-41-GR

P.O.T. 512+56.3 (PK.N.)

SEC. 36 T. 66N., R. 9W.

SEC. 31 T. 26N., R. 8W.

B.M.#4 "41-GL" Elev. 816.88 ☐ Cut in Wheel Guard 12' Lt. Sta. 511+00 "USR-41-GL"
B.M.#3 "41-GL" Elev. 791.23 Bt. Spk. in Guard Rail Post 16' Rt. Sta. 503+87 "USR-41-GL"

PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "U.S.R.41" PR. PLAN & PROFILE	9-12
L."E" PLAN & PROFILE	13
LINE "GL" PR. PLAN & PROFILE	12 & 15
LINE "SR" PR. PLAN & PROFILE	13 & 14
LINE "C" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35 & 35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B

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

PAVEMENT REMOVAL 2474 S.Y.

PAVEMENT REMOVAL SEE FOLLOWING SHEET

CUT = 25,192 CYS. (TO BE USED IN BALANCE NO. 2)
FILL = 0 CYS.

CUT = 31,236 CYS. (TO BE USED IN BALANCE NO. 3)
FILL = 0 CYS. TO STA. 519+00

PROJ.	LINE	SHEET	FILE
F-69(61)	41 GL.	26	

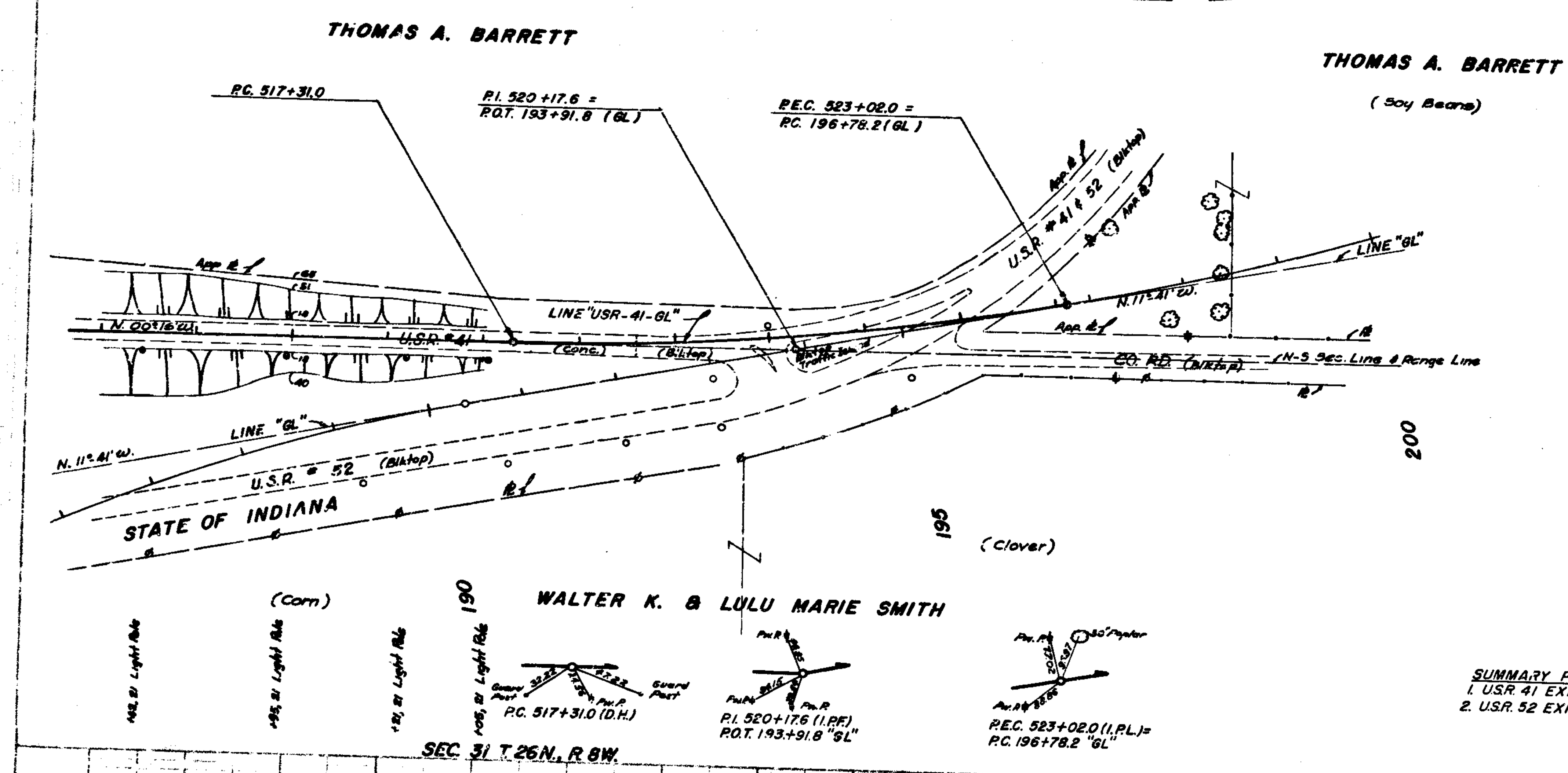
STATE HIGHWAY
DEPARTMENT OF INDIANA

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	27	183

SEC. 36 T.26N., R. 9W.

CURVE DATA

P.I. = 520 +17.6
Δ = 11°-25' LT.
D = 2°-00'
T = 286.4'
L = 570.8'
E = 14.30'



SUMMARY PAVEMENT REMOVAL

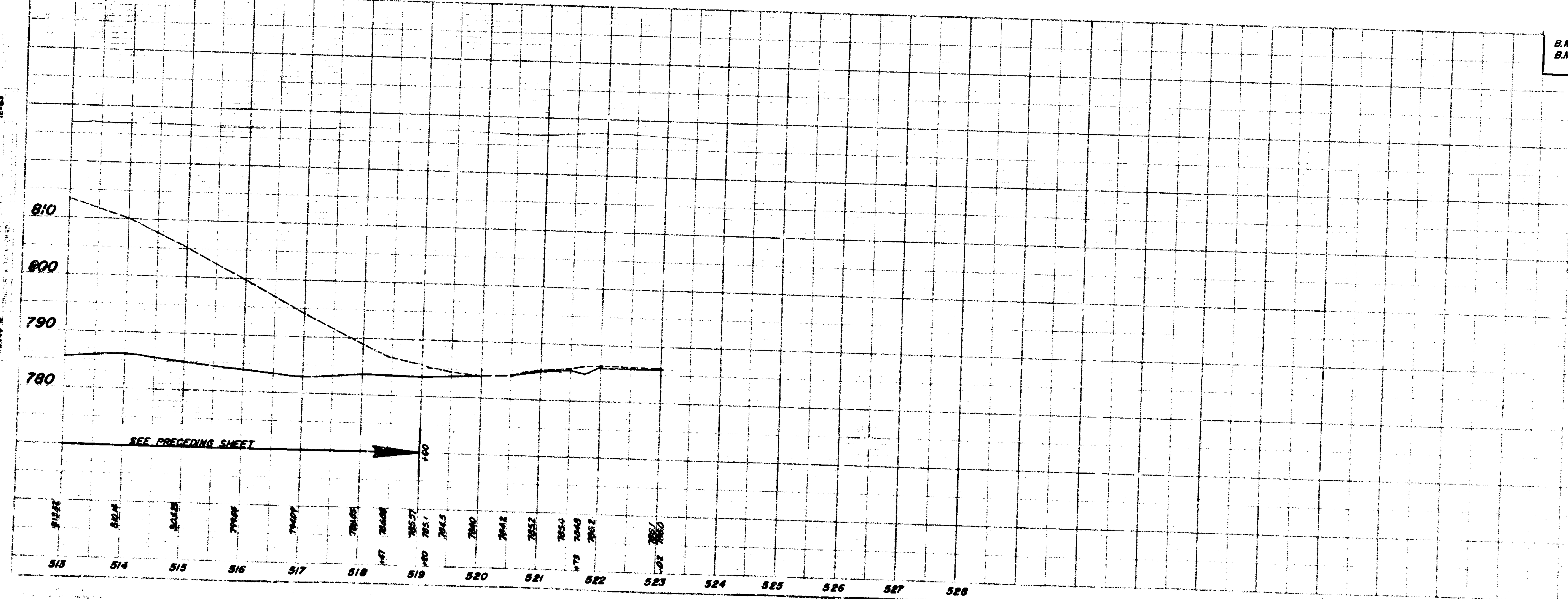
1. U.S.R. 41 EXISTING PROJ. F-69(B) STA. 512+36 TO STA. 550+48.0 — 9721 S.Y.
2. U.S.R. 52 EXISTING PROJ. F-75(D) STA. 1595+14.5 TO STA. 1619+32.6 — 7032 S.Y.

TOTAL 16,753 S.Y.

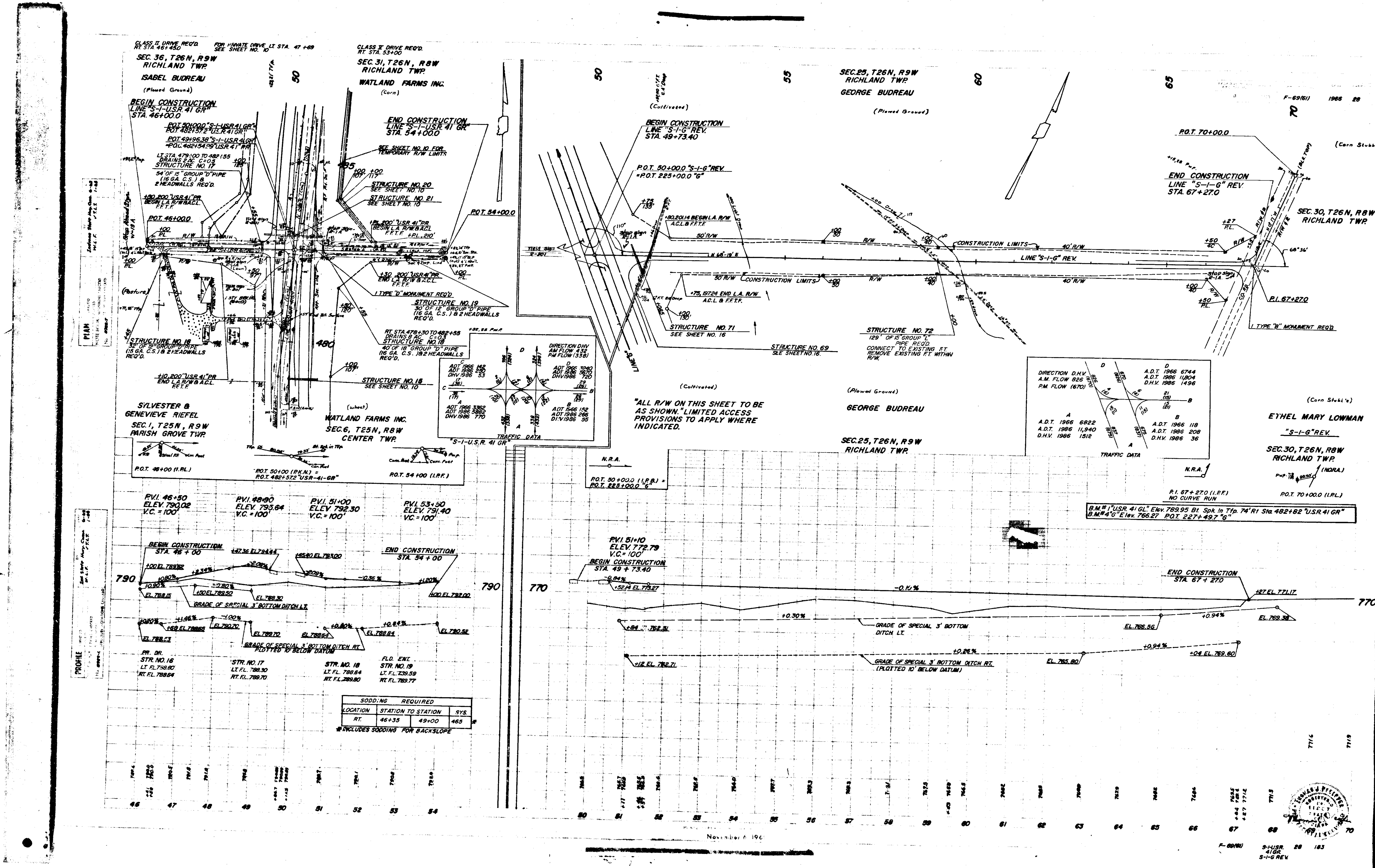
B.M. #5 "41-GL" Elev. 785.59 Bt. Spk. In Pwp. 83' Rt. Sta. 520+18 "U.S.R.-41-GL"
B.M. #2 "G" Elev. 780.09 Brass Disc In Conc. Post (Azimuth Marker Stamped GRAVEL 1955) 03' Rt. Sta. 201+12 "G"

ALL R/W ON THIS SHEET TO BE AS SHOWN

LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.
POINTS OF ACCESS TO BE AS FOLLOWS:



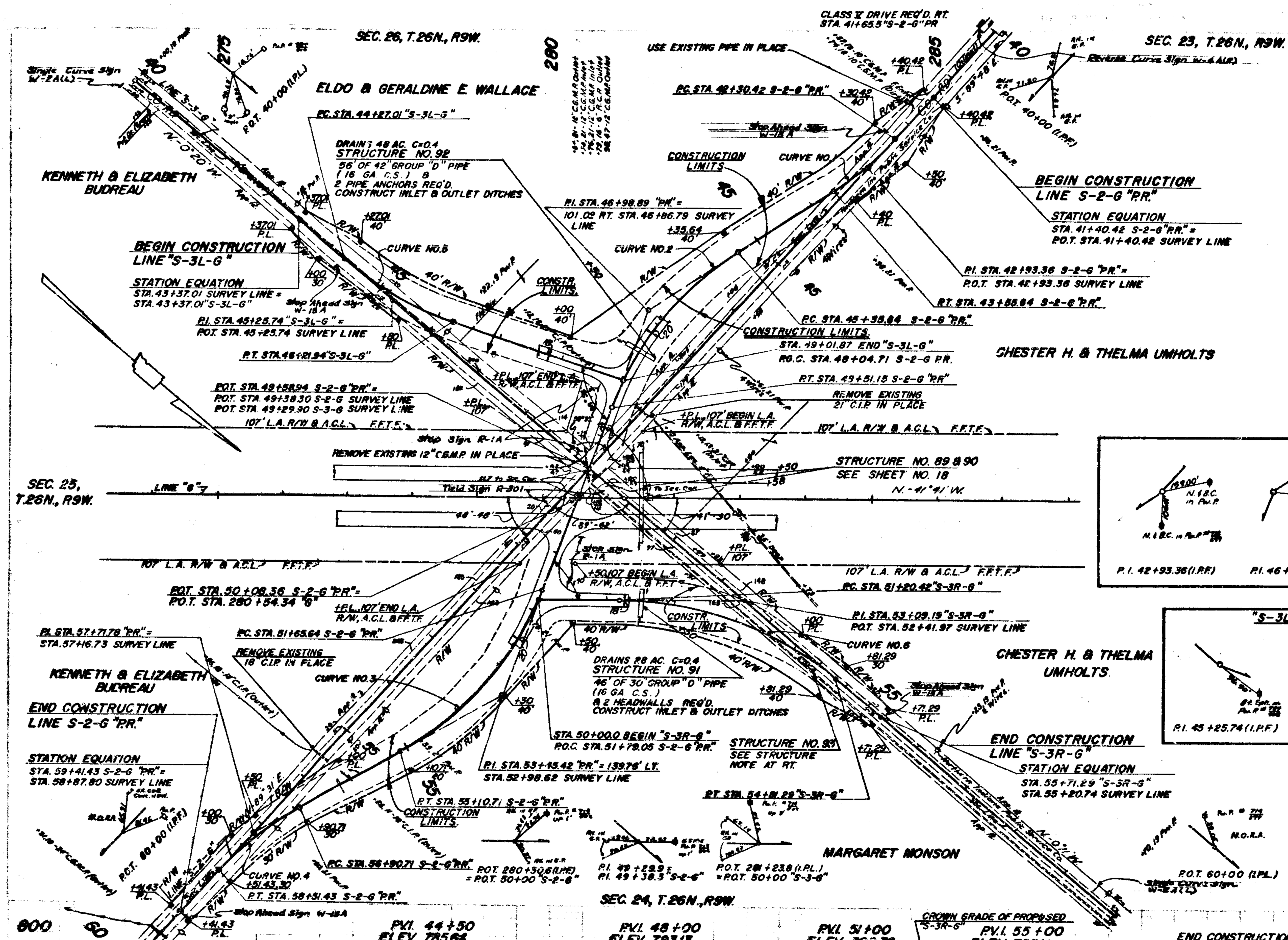
PROJ.	LINE	SHEET	FILE
F-69(61)	41GL	27	



SODDING	REQUIRED		
LOCATION	STATION TO STATION		SYS.
RT.	46+35	49+00	465*

*INCLUDES SODDING FOR BACKSLOPE

F-69(61) 1966 29 183



CURVE DATA NO. 1
P.I. STA. 42+93.36
Δ = 14°24'
D = 11°30'
T = 62.94'
L = 125.22'
E = 3.96'

CURVE DATA NO. 2
P.I. STA. 46+86.79
Δ = 36°17'
D = 11°30'
T = 163.25'
L = 315.51'
E = 26.06'

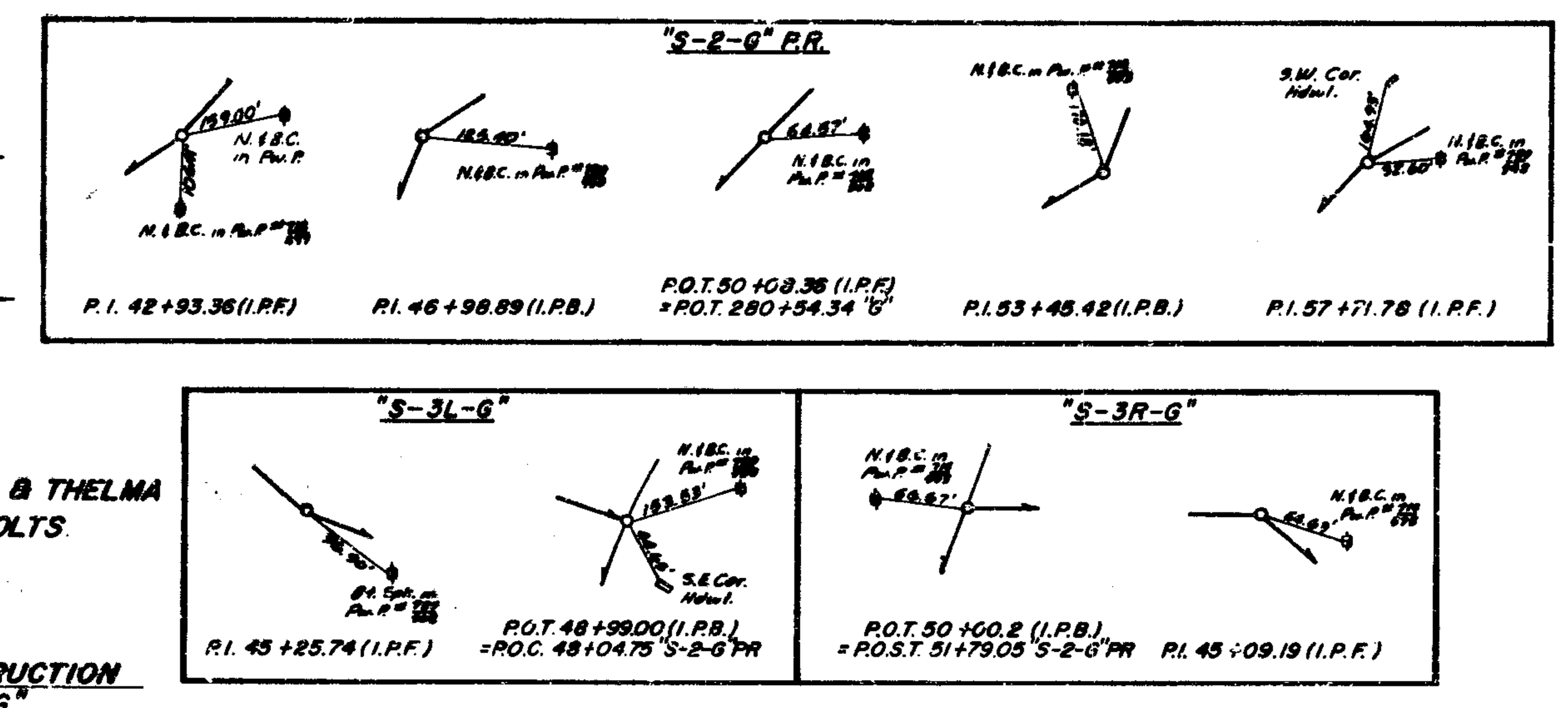
CURVE DATA NO. 3
P.I. STA. 53+45.42
Δ = 39°41'
D = 11°30'
T = 179.78'
L = 345.07'
E = 31.44'

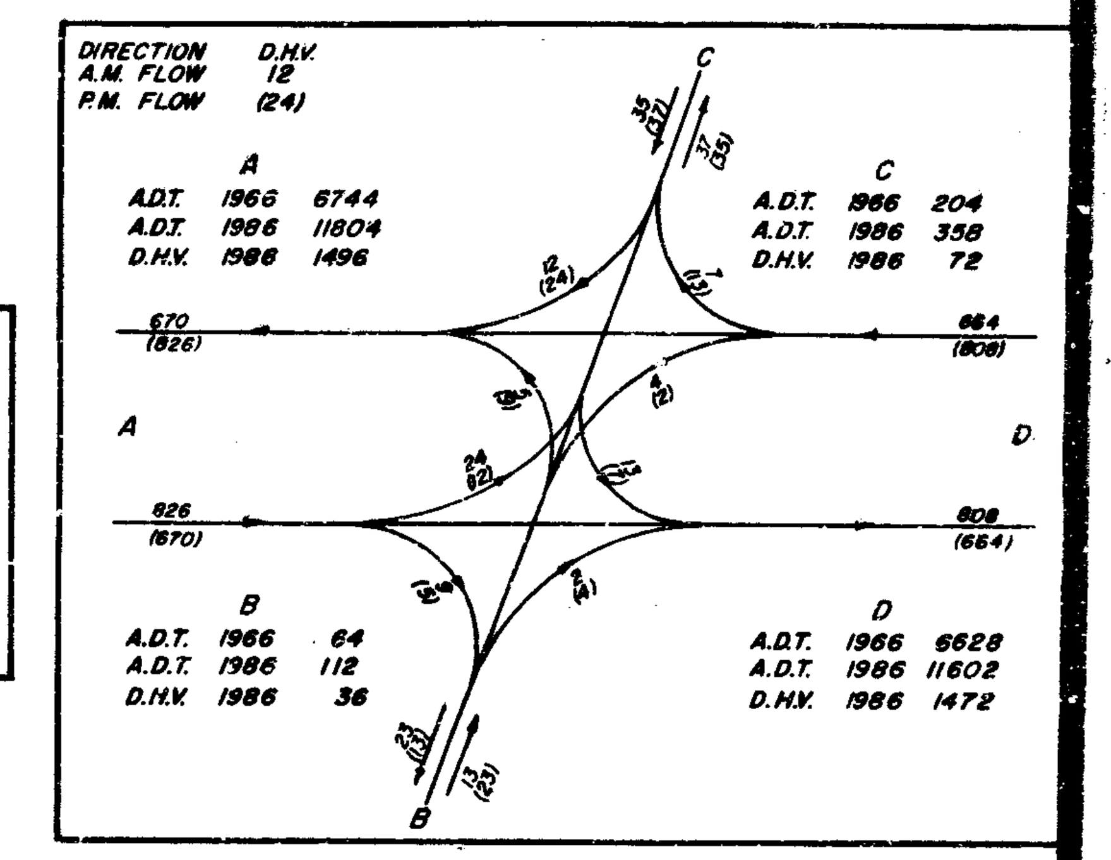
CURVE DATA NO. 4
P.I. STA. 57+71.78
Δ = 18°29'
D = 11°30'
T = 81.07'
L = 160.72'
E = 6.56'

CURVE DATA NO. 5
P.I. STA. 45+25.74
Δ = 22°25'
D = 11°30'
T = 98.73'
L = 194.93'
E = 9.69'

CURVE DATA NO. 6
P.I. STA. 53+09.19
Δ = 41°30'
D = 11°30'
T = 188.77'
L = 360.87'
E = 34.56'

STRUCTURE NO. 93
12' OF 6" GROUP "L" PIPE REQ'D. CONNECT TO EXISTING 6" R.C. PIPE REMOVE EXISTING 6" R.C. PIPE & OUTLET INTO RIGHT SIDE DITCH.

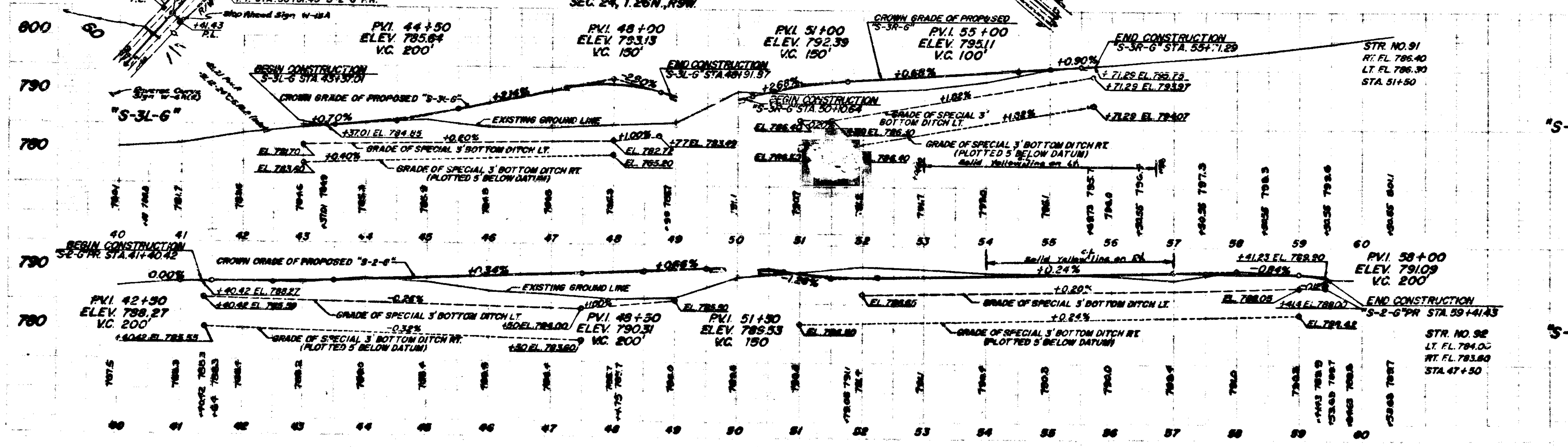




"S-2-G P.R.", "S-3R-G" & "S-3L-G"

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

B.M. #7 ELEV. 786.65 Bl. Spk. in Pwp. 309' Lt. Sta. 278+68 "G"



"S-3R-G"

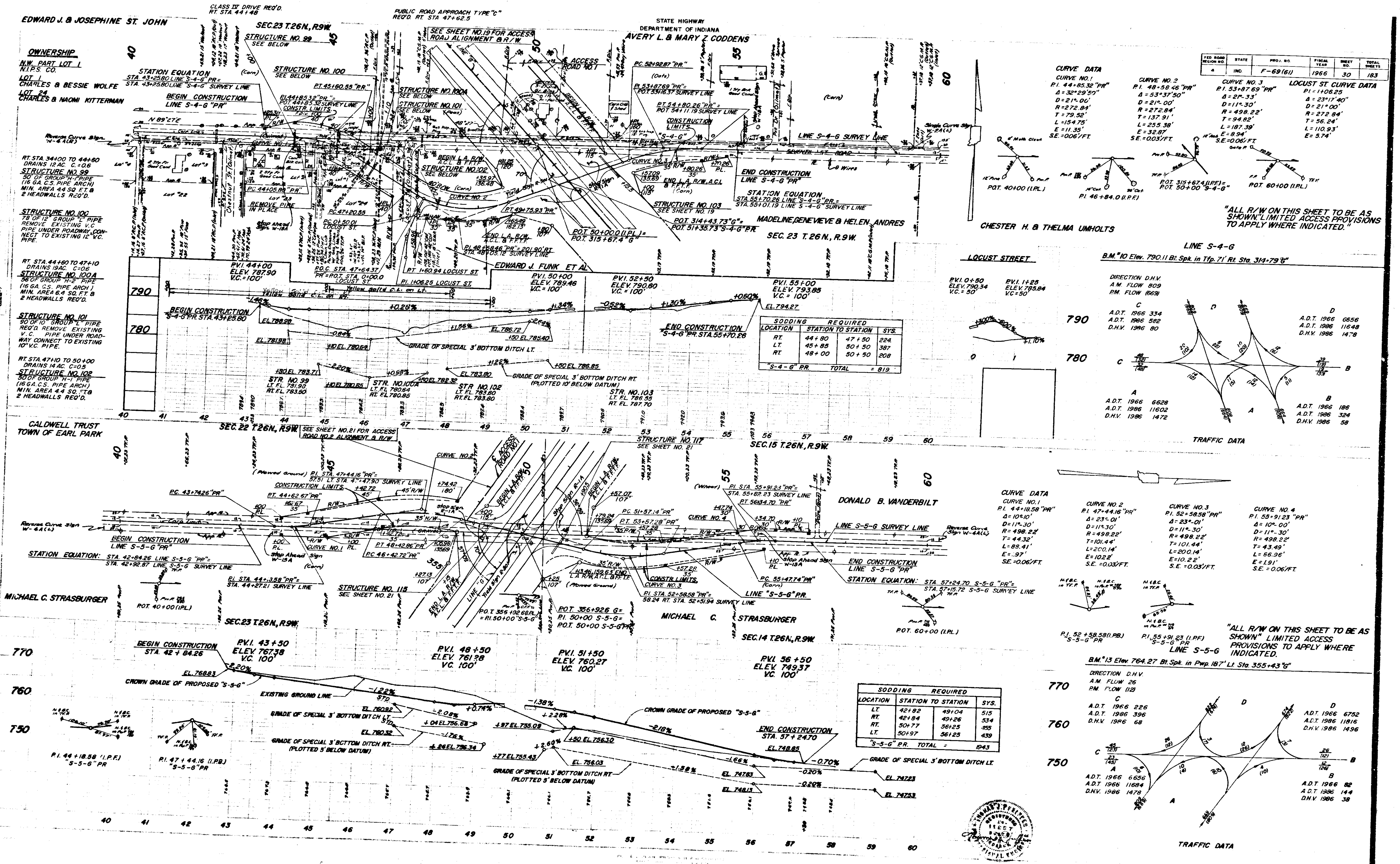
SODDING REQUIRED			
LOCATION	STATION TO STATION		SYS.
LT.	47+75	48+77	85
LT.	51+25	55+71	371
RT.	51+25	55+71	371
S-3-G P.R. TOTAL = 827 SYS.			

"S-2-G" P.R.

SODDING REQUIRED			
LOCATION	STATION TO STATION		SYS
LT.	47+25	49+00	145

F-69(61) S-2-G S-3-G 29

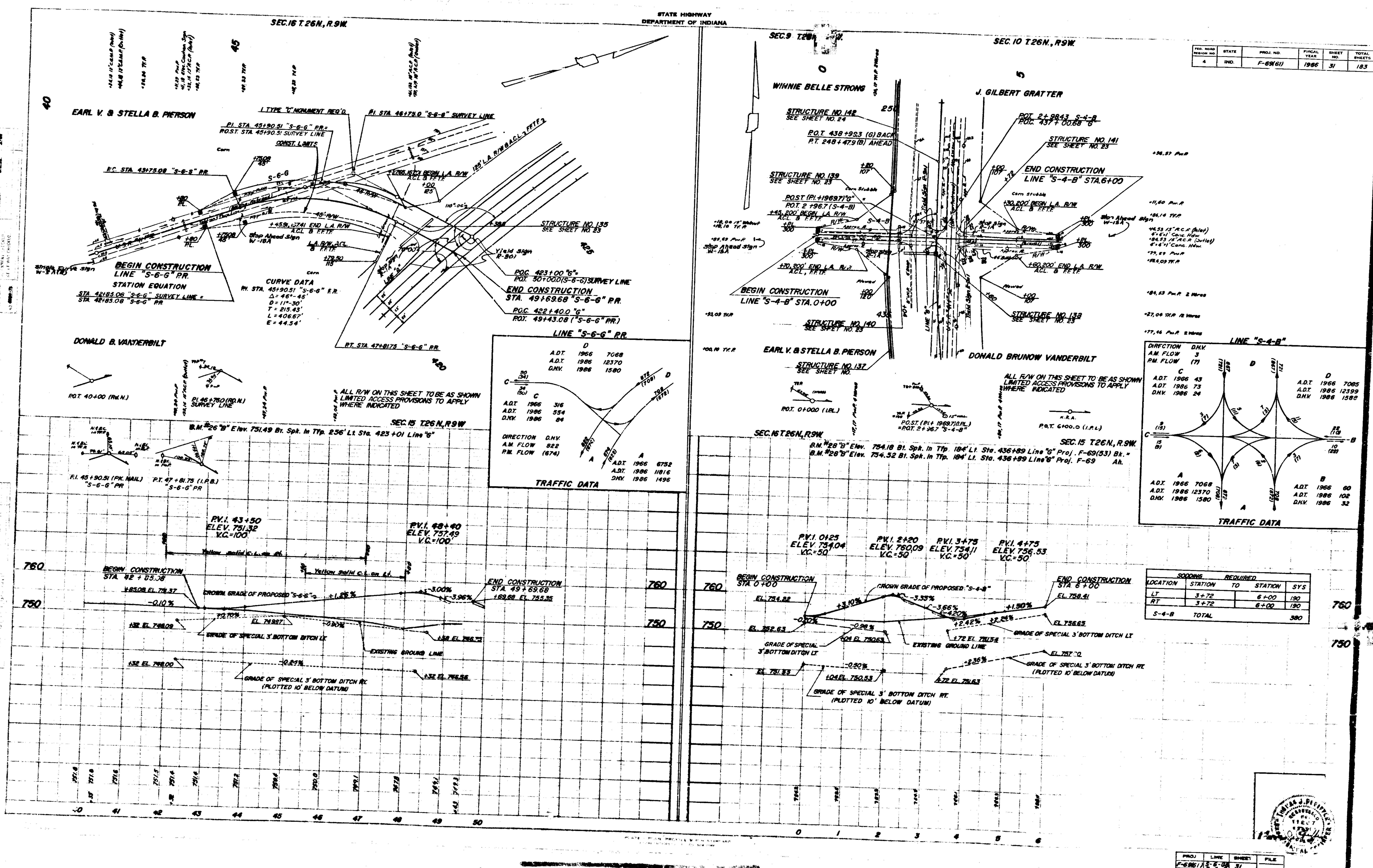
FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	30	183



SODDING	REQUIRED		
LOCATION	STATION TO STATION		SYS.
RT.	44+80	47+50	224
LT.	45+85	50+50	387
RT.	48+00	50+50	208
"S-4-G" PR.	TOTAL		= 819

SODDING	REQUIRED		
LOCATION	STATION TO STATION		SYS.
LT.	42+82	49+04	515
RT.	42+84	49+26	534
RT.	50+77	56+25	455
LT.	50+97	56+25	439
"S-5-G" PR.	TOTAL		= 1943

PROJ.	LINE	SHEET	FILE
F-69(61)	S-4-G & S-5-G	30	



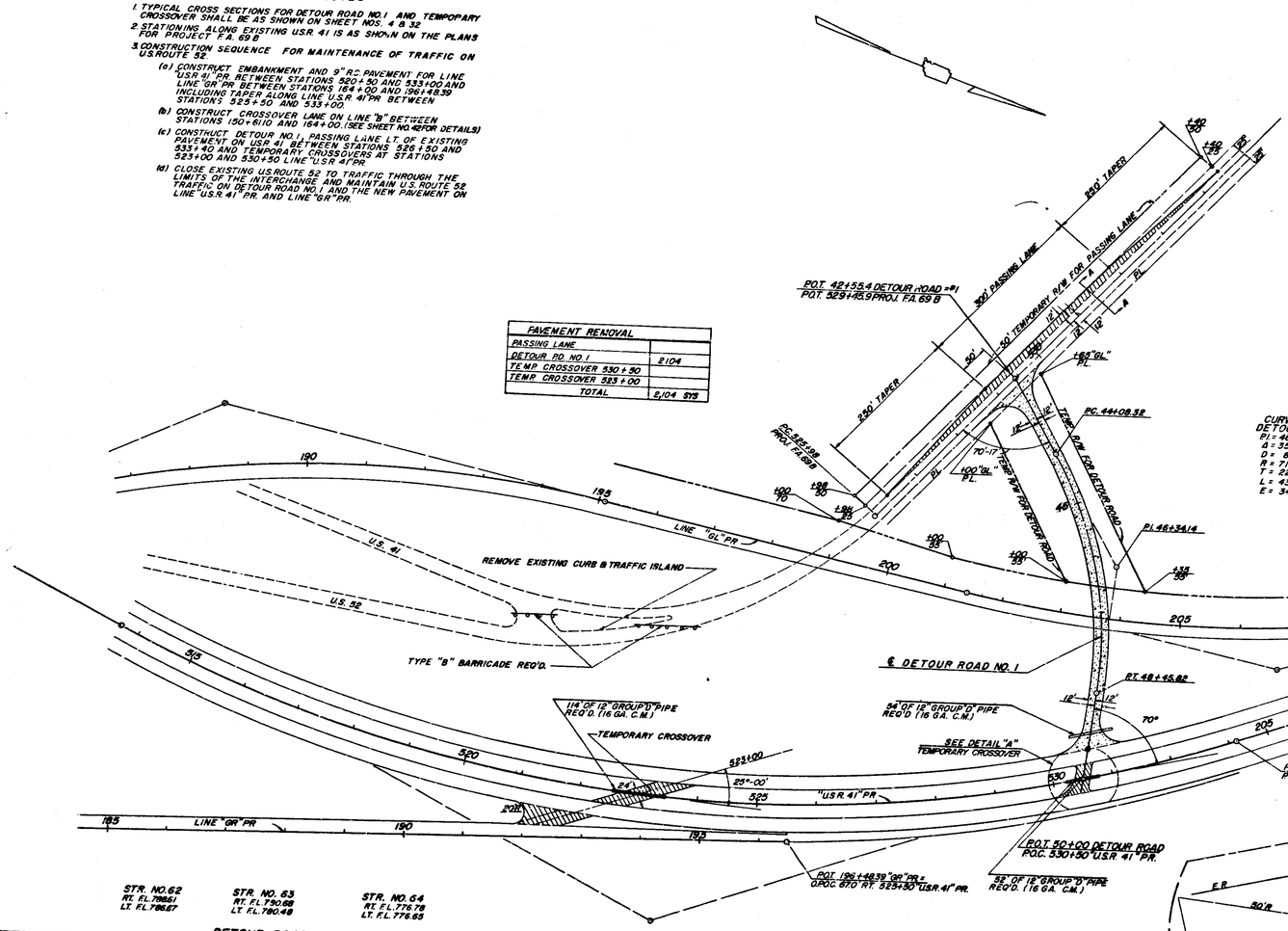
STATE HIGHWAY
DEPARTMENT OF INDIANA
FED. ROAD REGION NO. 4 | STATE IND. | PROJ. NO. F-69(61) | FISCAL YEAR 1966 | SHEET NO. 31 | TOTAL SHEETS 183
SEC.16 T.26N., R.9W.
SEC.9 T.26N., R.9W.
SEC.10 T.26N., R.9W.
EARL V. & STELLA B. PIERSON
DONALD B. VANDERBILT
WINNIE BELLE STRONG
J. GILBERT GRATTER
DONALD BRUNOW VANDERBILT
BEGIN CONSTRUCTION
LINE "S-6-G" P.R.
STATION EQUATION
STA. 42+83.06 "S-6-G" SURVEY LINE =
STA. 42+83.06 "S-6-G" PR
CURVE DATA
P.I. STA. 45+90.51 "S-6-G" P.R.
Δ = 46°-45'
D = 11°-30'
T = 215.43'
L = 406.67'
E = 44.54'
END CONSTRUCTION
STA. 49+69.68 "S-6-G" P.R.
STRUCTURE NO. 135
SEE SHEET NO. 23
ALL R/W ON THIS SHEET TO BE AS SHOWN LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED
LINE "S-6-G" P.R.
TRAFFIC DATA
BEGIN CONSTRUCTION
LINE "S-4-B" STA. 0+00
END CONSTRUCTION
LINE "S-4-B" STA. 6+00
STRUCTURE NO. 142 SEE SHEET NO. 24
STRUCTURE NO. 141 SEE SHEET NO. 23
STRUCTURE NO. 139 SEE SHEET NO. 23
STRUCTURE NO. 140 SEE SHEET NO. 23
STRUCTURE NO. 138 SEE SHEET NO. 23
STRUCTURE NO. 137 SEE SHEET NO.
LINE "S-4-B"
TRAFFIC DATA
B.M. #26 "B" Elev. 751.49 Bt. Spk. in Ttp. 256' Lt. Sta. 423+01 Line "G"
B.M. #28 "B" Elev. 754.18 Bt. Spk. in Ttp. 184' Lt. Sta. 436+89 Line "G" Proj. F-69(53) Bk. =
B.M. #28 "B" Elev. 754.32 Bt. Spk. in Ttp. 184' Lt. Sta. 436+89 Line "B" Proj. F-69 Ah.
P.V.I. 43+50 ELEV. 751.32 V.C.=100'
P.V.I. 48+40 ELEV. 757.49 V.C.=100'
BEGIN CONSTRUCTION STA. 42+83.06
END CONSTRUCTION STA. 49+69.68
CROWN GRADE OF PROPOSED "S-6-G"
GRADE OF SPECIAL 3' BOTTOM DITCH LT.
EXISTING GROUND LINE
GRADE OF SPECIAL 3' BOTTOM DITCH RT. (PLOTTED 10' BELOW DATUM)
P.V.I. 0+25 ELEV. 754.04 V.C.=50'
P.V.I. 2+20 ELEV. 760.09 V.C.=50'
P.V.I. 3+75 ELEV. 754.11 V.C.=50'
P.V.I. 4+75 ELEV. 756.53 V.C.=50'
CROWN GRADE OF PROPOSED "S-4-B"
SODDING REQUIRED
LOCATION | STATION | TO | STATION | SYS
LT | 3+72 | | 6+00 | 190
RT | 3+72 | | 6+00 | 190
S-4-B | TOTAL | | | 380
PROJ. F-69(61) | LINE S-6-G, S-4-B | SHEET 31

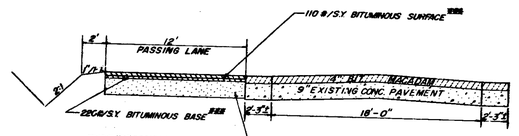
FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	32	183

GENERAL NOTES

1. TYPICAL CROSS SECTIONS FOR DETOUR ROAD NO.1 AND TEMPOPARY CROSSOVER SHALL BE AS SHOWN ON SHEET NOS. 4 & 32
2. STATIONING ALONG EXISTING U.S.R. 41 IS AS SHOWN ON THE PLANS FOR PROJECT F.A. 69 B
3. CONSTRUCTION SEQUENCE FOR MAINTENANCE OF TRAFFIC ON U.S. ROUTE 52.
   - (a) CONSTRUCT EMBANKMENT AND 9" R.C. PAVEMENT FOR LINE "U.S.R. 41" PR. BETWEEN STATIONS 520+50 AND 533+00 AND INCLUDING TAPER ALONG LINE U.S.R. 41 PR. BETWEEN STATIONS 525+50 AND 533+00
   - (b) CONSTRUCT CROSSOVER LANE ON LINE "B" BETWEEN STATIONS 150+61.0 AND 164+00. (SEE SHEET NO. 42 FOR DETAILS)
   - (c) CONSTHUCT DETOUR NO.1, PASSING LANE LT. OF EXISTING PAVEMENT ON U.S.R. 41 BETWEEN STATIONS 525+50 AND 533+40 AND TEMPORARY CROSSOVERS AT STATIONS 523+00 AND 530+50 LINE "U.S.R. 41 PR."
   - (d) CLOSE EXISTING U.S. ROUTE 52 TO TRAFFIC THROUGH THE LIMITS OF THE INTERCHANGE AND MAINTAIN U.S. ROUTE 52 TRAFFIC ON DETOUR ROAD NO.1 AND THE NEW PAVEMENT ON LINE "U.S.R. 41" PR. AND LINE "GR" PR.

PAVEMENT REMOVAL	
PASSING LANE	
DETOUR RD. NO.1	2104
TEMP. CROSSOVER 530+50	
TEMP. CROSSOVER 523+00	
TOTAL	2,104 SYS





SECTION A-A
SCALE: 3/16"=1' HOR. 3/8"=1' VERT.

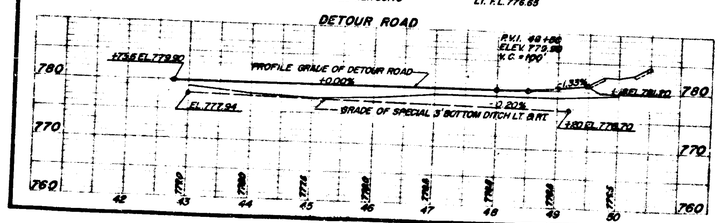
CURVE DATA DETOUR ROAD

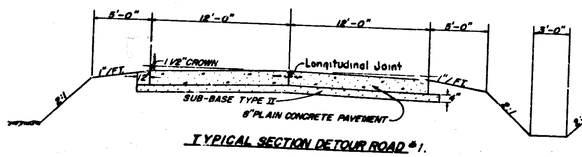
P.I. = 46+34.14
Δ = 35°-00'
D = 8°-00'
R = 716.20'
T = 225.62'
L = 437.50'
E = 34.76'

LEGEND

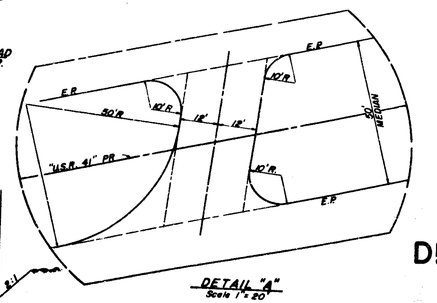
8" PLAIN CONCRETE
BITUMINOUS MATERIALS FOR APPROACHES

PLAN SHEET REFERENCES	
DESCRIPTION	SHEET NO.
LINE U.S.R. 41 PR	9-12
LINE "GR" PR	13-14
TYPICAL CROSS SECTION DETOUR ROAD NO. 1	4 & 32
TYPICAL CROSS SECTION TEMPORARY CROSSOVER	4





TYPICAL SECTION DETOUR ROAD #1.
SCALE: 3/16"=1' HOR. 3/8"=1' VERT.



DETAIL "A"
Scale 1" = 20'

DETOUR ROAD NO. 1
DETAILS

SCALE 1" = 100'
(Except As Noted)

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)	41-PR	32	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	33	183

SURVEY CURVE DATA

LINE	"GR"		"GL"	
CURVE NO.	(1)	(2)	(3)	(4)
Δ	28°-06' RT.	22°-42' LT.	35°-24' RT.	30°-00' LT.
D	2°-00'	3°-00'	3°-00'	2°-00'
R	2864.79'	1909.86'	1909.86'	2864.79'
T	717.0	383.4	609.6	767.7
L	1405.00'	756.66'	1180.0	1500.0'
E	88.35	38.10'	94.0'	101.05'
P.C. STA.	165+83.0	192+20.1 = 522+60.1 USR41GR	178+56.0	196+78.2 = 523+02.0 USR41GL
P.I. STA.	173+00.0	196+03.5	184+65.6	204+45.9
P.T. STA.	179+88.0	199+76.8 = 199+76.8 "G"	190+36.0	211+78.2 = 211+12.0 "G"

LINE	"U.S.R. 41 GR"			"U.S.R. 41 GL"
CURVE NO.	(5)	(6)	(7)	(8)
Δ	7°-20' LT.	17°-24' RT.	36°-00' LT.	11°-25' LT.
D	2°-00'	2°-00'	3°-00'	2°-00'
R	2864.79'	2864.79'	1909.86'	2864.79'
T	133.6'	438.4'	620.6'	286.4'
L	366.7'	870.0'	1200.0'	570.8'
E	5.90'	33.35'	98.30'	14.30'
P.C. STA.	484+70.7	490+08.2	510+50.1	517+31.2'
P.I. STA.	486+54.3	494+46.6	516+80.7 = 185+95.5 "GR"	520+17.6 = 193+91.8 "GL"
P.T. STA.	488+37.4	498+78.2	522+60.1 = 192+20.1 "GR"	523+02.0 = 196+78.2 "GL"

P.R. CURVE DATA

CURVE NO. 9
P.I. 484+86.53 "USR 41" P.R.
Δ = 7°15'30" T = 484.54
R = 7639.44' L = 967.78'
D = 0°-45' E = 15.35'

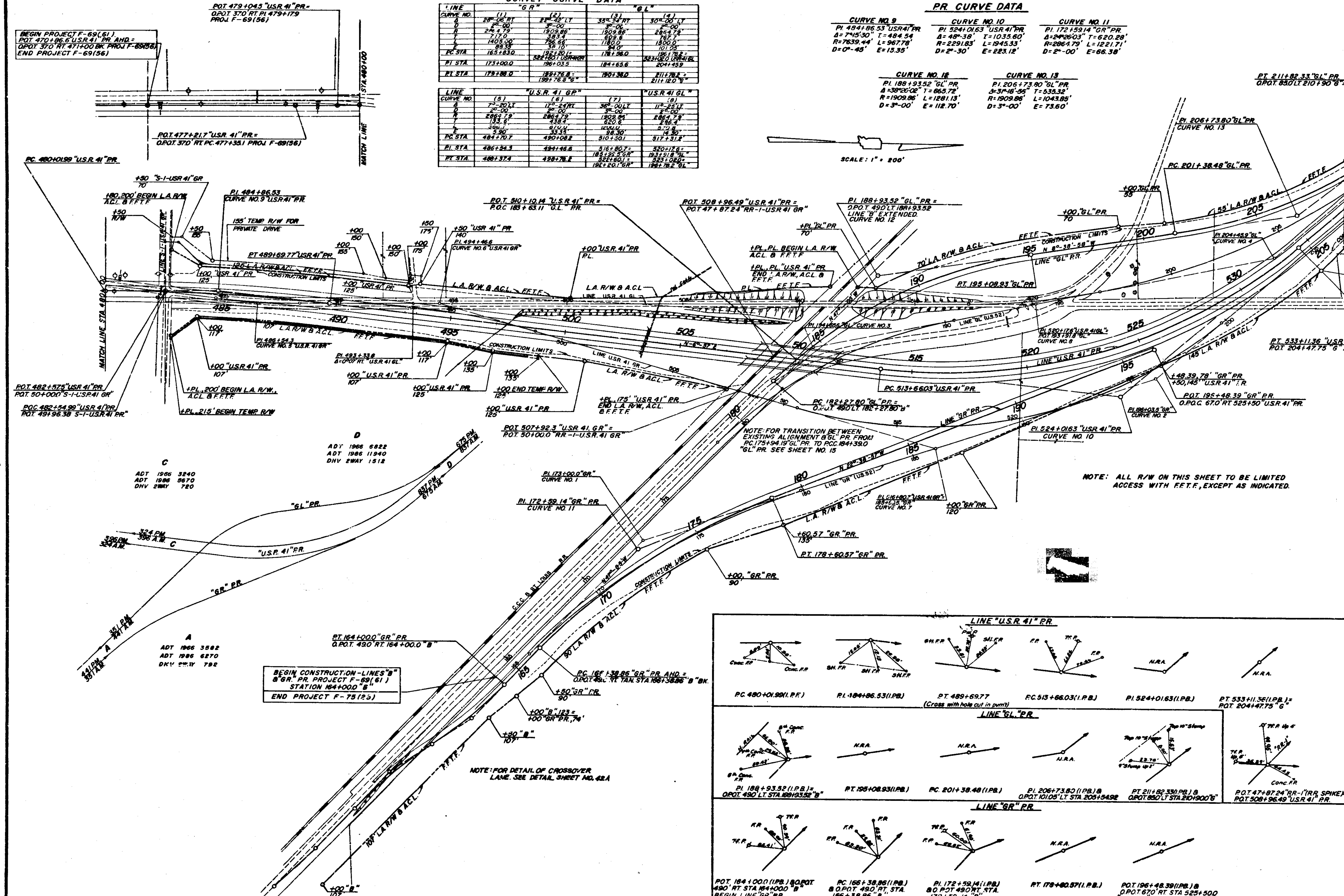
CURVE NO. 10
P.I. 524+01.63 "USR 41" P.R.
Δ = 48°-38' T = 1035.60'
R = 2291.83' L = 1945.33'
D = 2°-30' E = 223.12'

CURVE NO. 11
P.I. 172+59.14 "GR" P.R.
Δ = 24°26'03" T = 620.28'
R = 2864.79' L = 1221.71'
D = 2°-00' E = 66.38'

CURVE NO. 12
P.I. 188+93.52 "GL" P.R.
Δ = 38°26'02" T = 665.72'
R = 1909.86' L = 1281.13'
D = 3°-00' E = 112.70'

CURVE NO. 13
P.I. 206+73.80 "GL" P.R.
Δ = 31°-16'-56" T = 535.32'
R = 1909.86' L = 1043.85'
D = 3°-00' E = 73.60'

SCALE: 1" = 200'



PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "U.S.R. 41" P.R. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" P.R. PLAN & PROFILE	12 & 15
LINE "GR" P.R. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35-35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B
DRAINAGE PLAN	33A

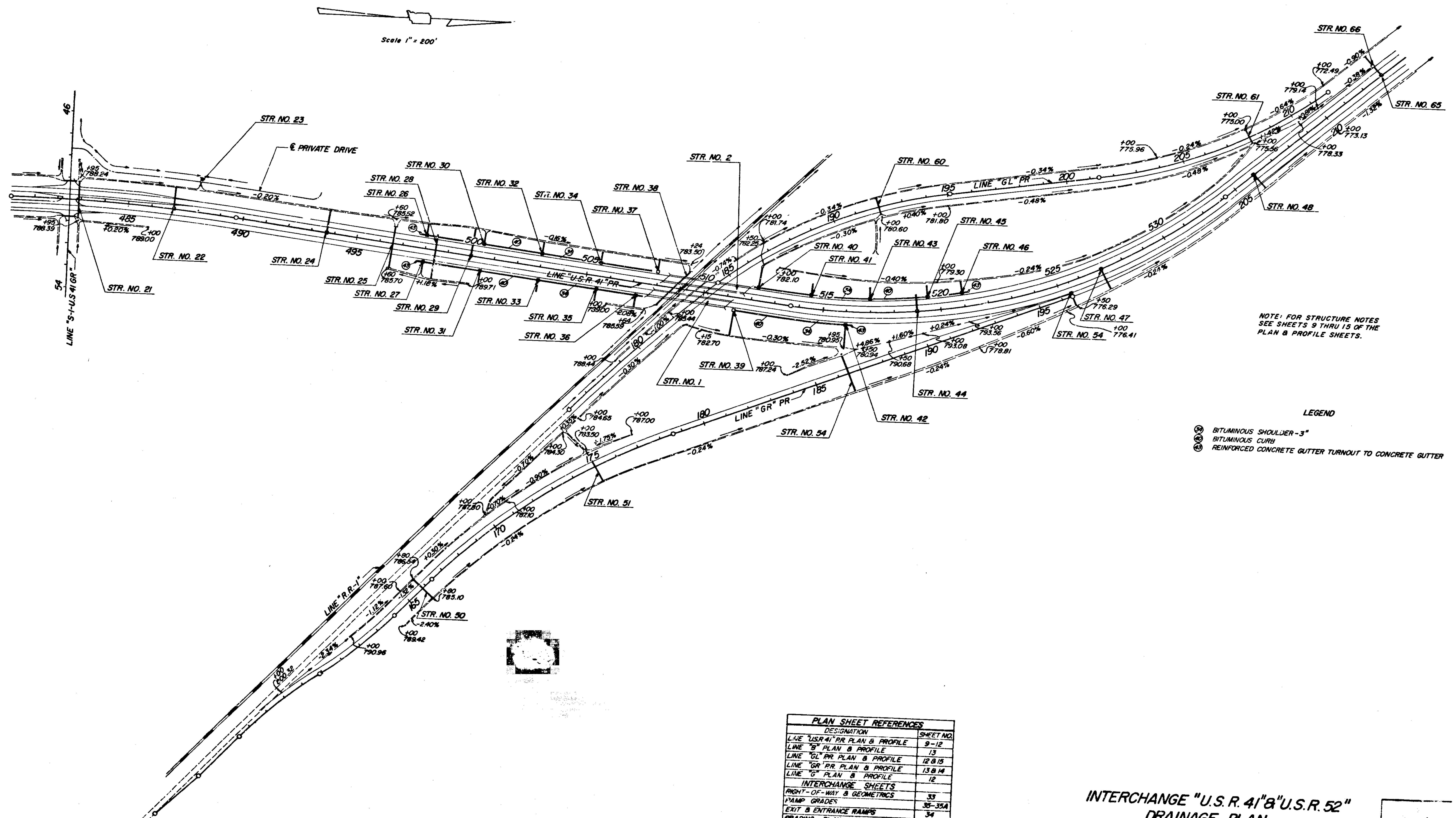
INTERCHANGE GEOMETRICS AND RIGHT OF WAY "U.S.R. 41" & "U.S.R. 52"

SCALE: 1" = 200'

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		33	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	33A	183



NOTE: FOR STRUCTURE NOTES SEE SHEETS 9 THRU 15 OF THE PLAN & PROFILE SHEETS.

LEGEND

- (34) BITUMINOUS SHOULDER-3"
- (40) BITUMINOUS CURB
- (43) REINFORCED CONCRETE GUTTER TURNOUT TO CONCRETE GUTTER

PLAN SHEET REFERENCES	
DESIGNATION	SHEET NO.
LINE "USR 41" P.R. PLAN & PROFILE	9-12
LINE "B" PLAN & PROFILE	13
LINE "GL" P.R. PLAN & PROFILE	12 & 15
LINE "GR" P.R. PLAN & PROFILE	13 & 14
LINE "G" PLAN & PROFILE	12
INTERCHANGE SHEETS	
RIGHT-OF-WAY & GEOMETRICS	33
RAMP GRADES	35-35A
EXIT & ENTRANCE RAMPS	34
GRADING PLAN	35B

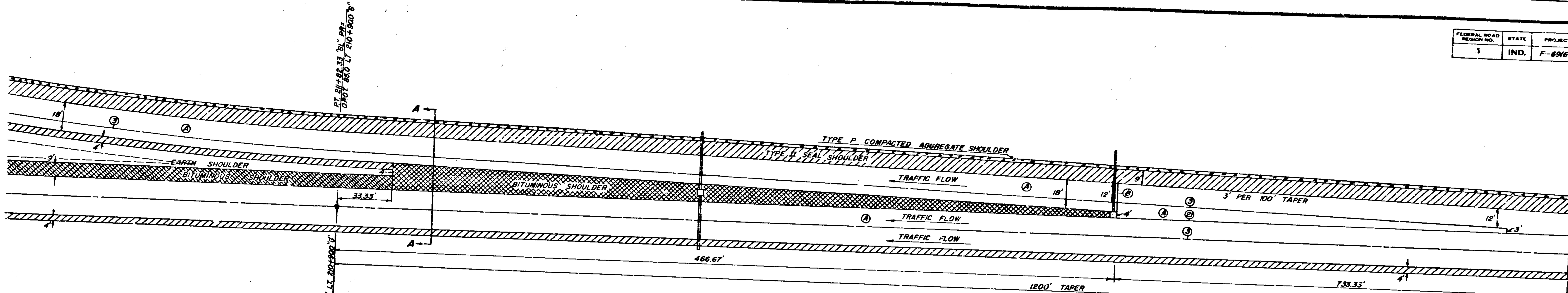
INTERCHANGE "U.S.R. 41" & "U.S.R. 52" DRAINAGE PLAN

Scale 1" = 200'

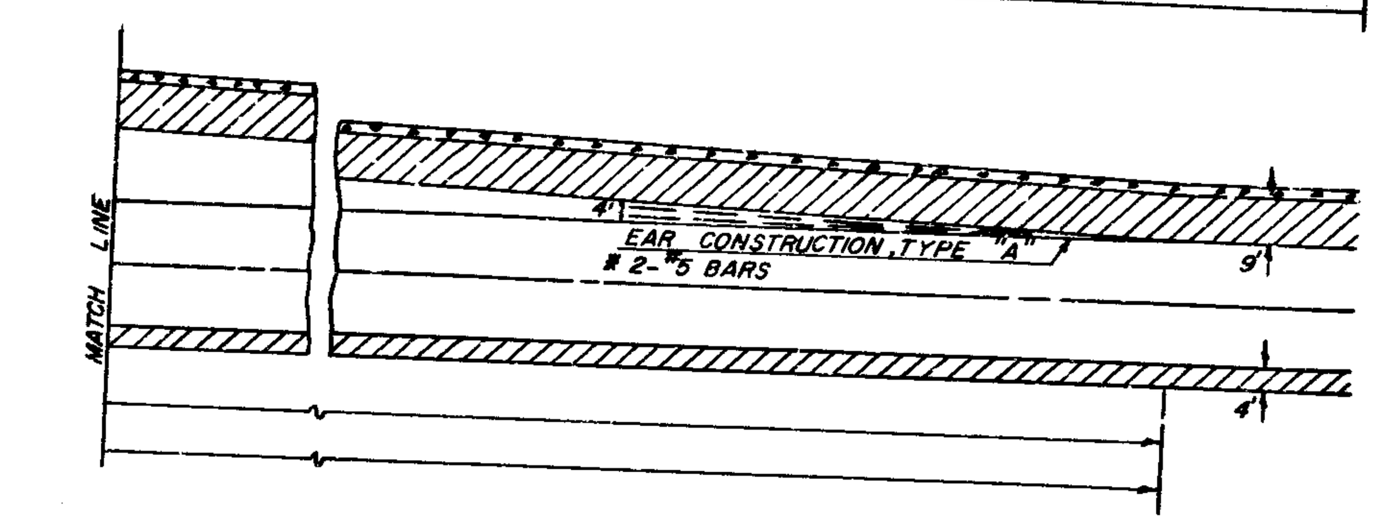
November 6, 1964

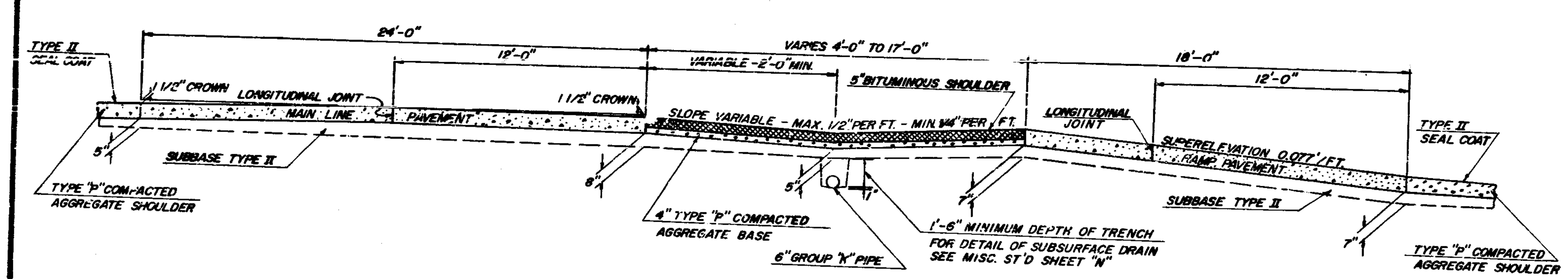
PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
F-69(54)		33A	183

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	IND.	F-69(61)	1966	34	183

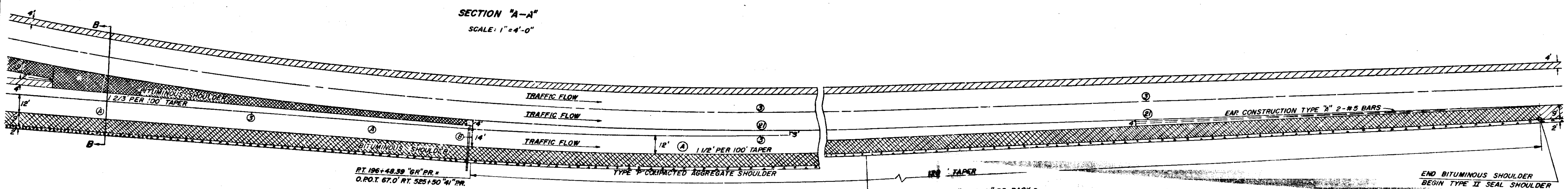


RAMP EXIT LINE "GL" P.R.
SCALE 1" = 30'

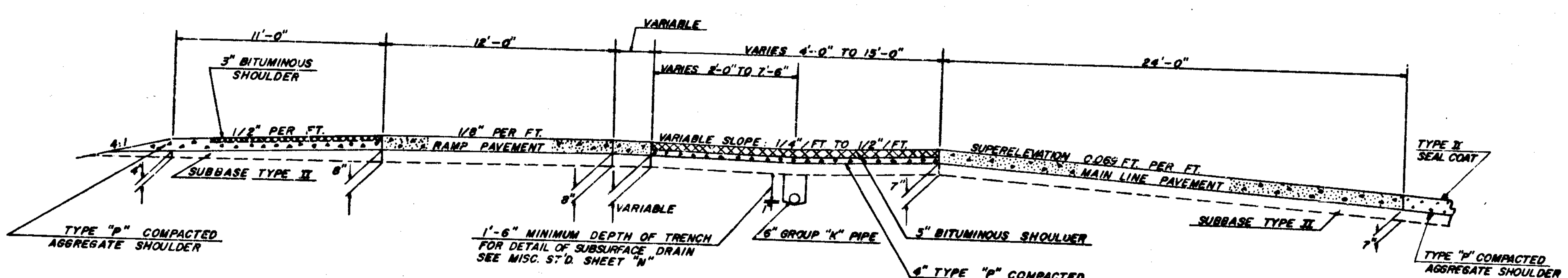




SECTION "A-A"
SCALE: 1" = 4'-0"



RAMP ENTRANCE LINE "GR" P.R.
SCALE 1" = 30'



SECTION "B-B"
SCALE: 1" = 4'-0"

LEGEND

- Ⓐ REINFORCED CONCRETE PAVEMENT
- Ⓑ LONGITUDINAL JOINT
- Ⓒ 1" PREFORMED EXPANSION JOINT WITH LOAD TRANSFER
- Ⓓ KEYWAY CONSTRUCTION JOINT
- TYPE II SEAL SHOULDER
- BITUMINOUS SHOULDER

ENTRANCE AND EXIT RAMP

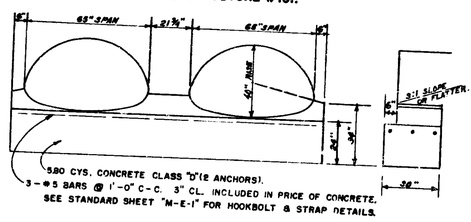
DETAILS

November 6, 1961

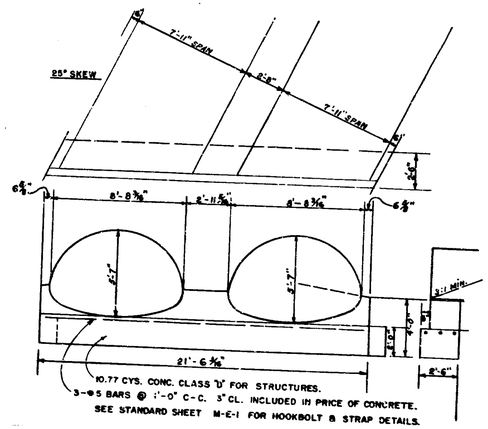
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		34	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(54)	34A		

SPECIAL ANCHORS STRUCTURE # 131.



5.80 CYS. CONCRETE CLASS "D" (12 ANCHORS).
3 - #5 BARS @ 1'-0" C-C. 3" CL. INCLUDED IN PRICE OF CONCRETE.
SEE STANDARD SHEET "M-E-1" FOR HOOKBOLT & STRAP DETAILS.



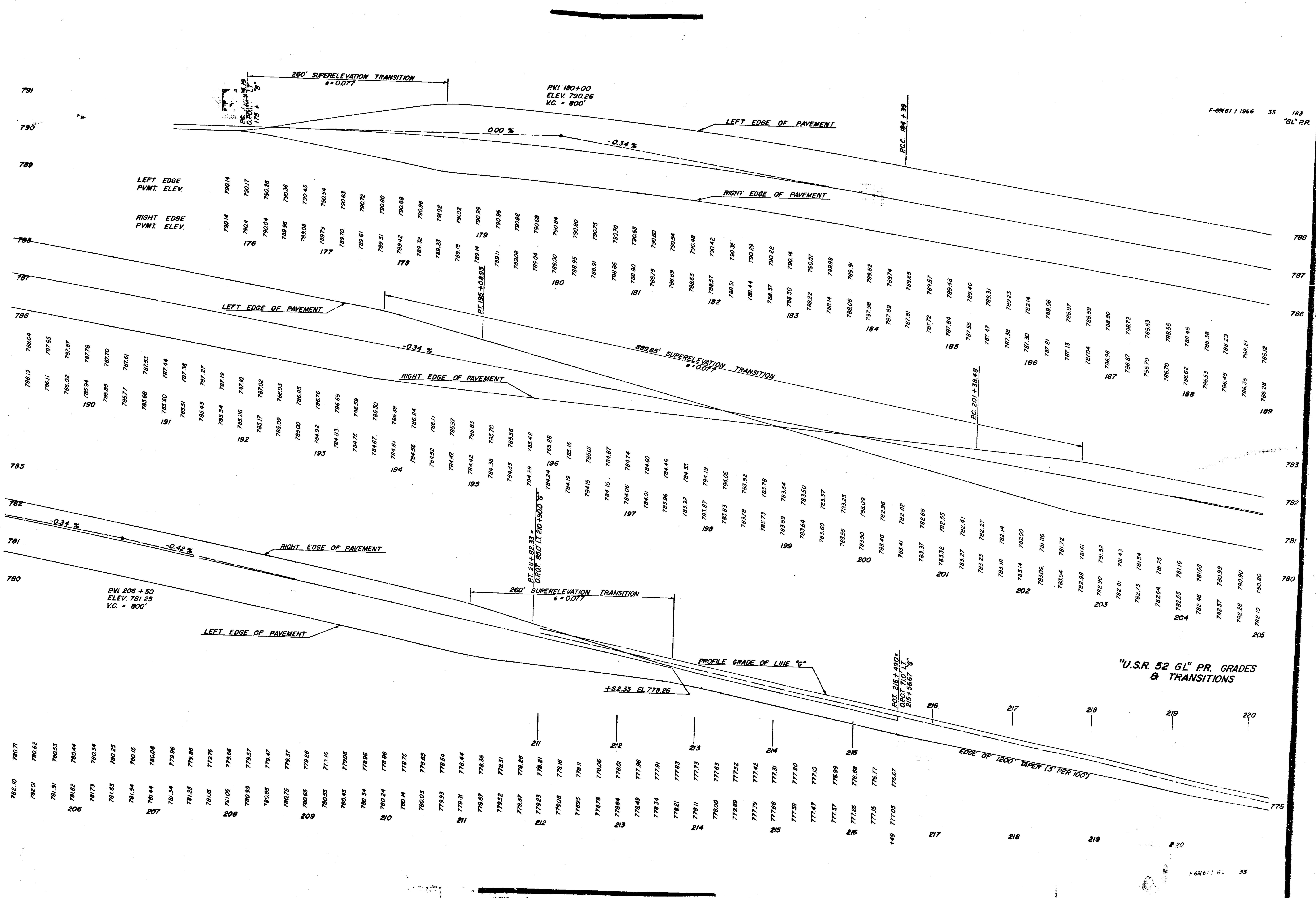
10.77 CYS. CONC. CLASS "D" FOR STRUCTURES.
3 - #5 BARS @ 1'-0" C-C. 3" CL. INCLUDED IN PRICE OF CONCRETE.
SEE STANDARD SHEET M-E-1 FOR HOOKBOLT & STRAP DETAILS.

SPECIAL ANCHORS STRUCTURE # 73.

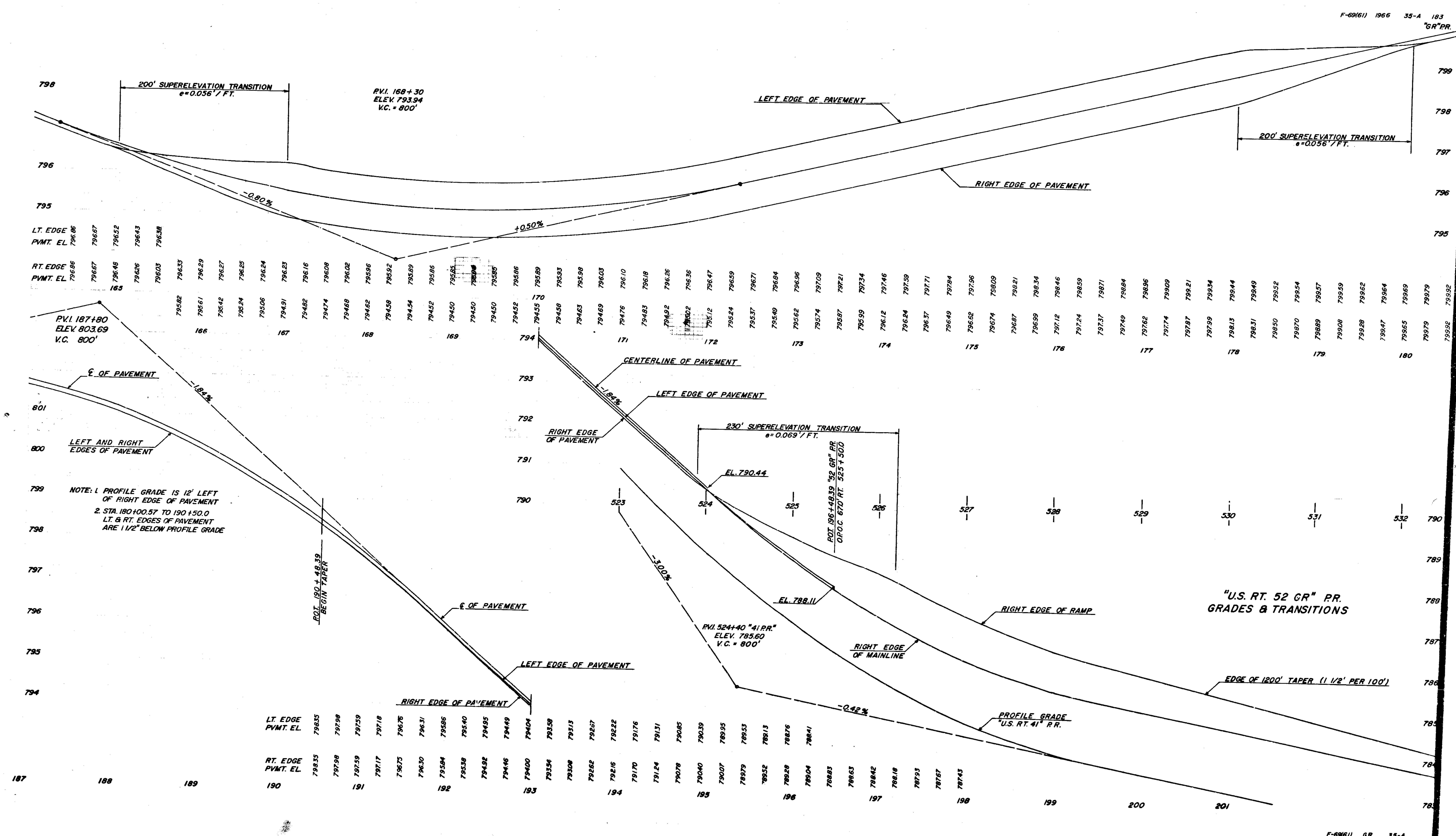
DETAILS

November 6, 1964

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(54)		34A		



260' SUPERELEVATION TRANSITION
e = 0.077
P.V.I. 180+00
ELEV. 790.26
V.C. = 800'
LEFT EDGE OF PAVEMENT
0.00 %
-0.34 %
P.C.C. 184 + 39
RIGHT EDGE OF PAVEMENT
LEFT EDGE
PVMT. ELEV.
RIGHT EDGE
PVMT. ELEV.
F-69(61) 1966 35 183
"GL" P.R.
LEFT EDGE OF PAVEMENT
P.T. 195 + 08.93
-0.34 %
889.85' SUPERELEVATION TRANSITION
e = 0.077
RIGHT EDGE OF PAVEMENT
P.C. 201 + 38.48
-0.34 %
-0.42 %
RIGHT EDGE OF PAVEMENT
P.V.I. 206 + 50
ELEV. 781.25
V.C. = 800'
260' SUPERELEVATION TRANSITION
e = 0.077
LEFT EDGE OF PAVEMENT
PROFILE GRADE OF LINE "G"
+62.33 EL. 778.26
"U.S.R. 52 GL" P.R. GRADES
& TRANSITIONS
EDGE OF 1200' TAPER (3' PER 100')



F-69(61) 1966 35-A 183
"GR" PR.
200' SUPERELEVATION TRANSITION
e=0.056'/FT.
P.V.I. 168+30
ELEV. 793.94
V.C. = 800'
LEFT EDGE OF PAVEMENT
RIGHT EDGE OF PAVEMENT
200' SUPERELEVATION TRANSITION
e=0.056'/FT.
-0.80%
+0.50%
LT. EDGE
PVMT. EL.
RT. EDGE
PVMT. EL.
P.V.I. 187+80
ELEV. 803.69
V.C. 800'
℄ OF PAVEMENT
-1.84%
LEFT AND RIGHT
EDGES OF PAVEMENT
NOTE: 1. PROFILE GRADE IS 12' LEFT
OF RIGHT EDGE OF PAVEMENT
2. STA. 180+00.57 TO 190+50.0
LT. & RT. EDGES OF PAVEMENT
ARE 1 1/2" BELOW PROFILE GRADE
POT 190+48.39
BEGIN TAPER
℄ OF PAVEMENT
LEFT EDGE OF PAVEMENT
RIGHT EDGE OF PAVEMENT
CENTERLINE OF PAVEMENT
-1.84%
LEFT EDGE OF PAVEMENT
RIGHT EDGE
OF PAVEMENT
230' SUPERELEVATION TRANSITION
e=0.069'/FT.
EL. 790.44
POT 196+48.39 "52 GR" PR.
O.P.O.C. 67.0 RT. 525+50.0
-3.00%
EL. 788.11
P.V.I. 524+40 "41 P.R."
ELEV. 785.60
V.C. = 800'
RIGHT EDGE OF RAMP
RIGHT EDGE
OF MAINLINE
"U.S. RT. 52 GR" P.R.
GRADES & TRANSITIONS
EDGE OF 1200' TAPER (1 1/2' PER 100')
-0.42%
PROFILE GRADE
"U.S. RT. 41" P.R.
F-69(61) G.R. 35-A

STRUCTURE DATA

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	36	183

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LINE	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BORROW GRADE "B" CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
1			CONTINUOUS STEEL BEAM BRIDGE	41PR									INCLUDED WITH ROAD PROJ. F-69(54)	11
2			CONTINUOUS STEEL BEAM BRIDGE	41PR									INCLUDED WITH ROAD PROJ. F-69(54)	11
3			CONTINUOUS REINF. SLAB BRIDGE										INCLUDED WITH ROAD PROJ. F-69(54)	21
11	AR464+38	44^D'	GROUP G-1 PIPE (GA. 12 F.B.C.C.S.)	41PR	22'		1.5'	788.01		1.71	2.50		CONNECT TO EXISTING BOX IN PLACE 1 HEADWALL REQ'D.	9
12	AR469+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	41PR	64'		3.7'	790.77	790.50	0.29	4.05		1 HEADWALL REQ'D.	9
13	LT.471+62	12"	GROUP D PIPE (GA. NO. 16 C.S.)	41PR	32'		1.5'	790.87	790.63	0.58	—		2 HEADWALLS REQ'D.	10
14	AR475+52.5	18"	GROUP A PIPE & * STD. INLET TYPE F-7	41PR	140'		3.0	790.00	789.53	0.80	15.26		2 HEADWALLS REQ'D. REMOVE EXISTING 18" R.C.P. IN PLACE	10
15	AR479+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	41PR	82'		3.5	789.44	789.35	0.29	6.36		1 HEADWALL REQ'D.	10
16	RT.46+45	12"	GROUP D PIPE (GA. 16 C.S.)	S-1-SR 41PR	32'		1.1	788.64	788.60	0.58	0.75		2 HEADWALLS REQ'D.	28
17	LT.482+55	15"	GROUP D PIPE (GA. 16 C.S.)	41PR	54'		5.0	789.70	788.30	0.69	1.65		2 HEADWALLS REQ'D.	28
18	RT.482+55	18"	GROUP D PIPE (GA. 16 C.S.)	41PR	40'		2.5	789.80	788.64	0.80	1.48		2 HEADWALLS REQ'D.	28
19	RT.53+00	12"	GROUP D PIPE (GA. 16 C.S.)	S-1-SR 41PR	30'		0.5	789.77	789.59	0.58	—		2 HEADWALLS REQ'D.	28
20	RT.482+70 TO RT.498+50	12"	GROUP P PIPE	41PR	1612'		—	—	—	—	—		CONNECT TO EXISTING 12" F.T. & STR. NO. 28	10
21	AR482+95	18"	GROUP A PIPE *	41PR	166'		3.9	788.39	788.25	0.80	20.55		2 HEADWALLS REQ'D.	10
22	℄487+00	15"	STD. INLET TYPE P-12 GROUP A PIPE *	41PR	86'		4.9	789.60	787.44	0.35	7.96		1 HEADWALL REQ'D.	10
23	AR488+00	16"	GROUP D PIPE (GA. 16 C.S.)	PR.DR.	38'		2.3	789.80	787.24	0.69	1.15		2 HEADWALLS REQ'D.	10
24	AR493+70	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	41PR	88'		5.8	789.93	786.10	0.29	5.72		1 HEADWALL REQ'D.	10
25	AR496+60	30"	GROUP A PIPE *	41PR	186'		10.0	785.70	785.52	2.49	29.63		2 HEADWALLS REQ'D.	10
26	LT.498+00	12"	STD. INLET TYPE-S-14 & F.B.C.C.S. PIPE *	41PR	52'		2.0	796.57	785.30	0.64	1.24		2-18° BENDS & 1 HEADWALL REQ'D.	11
27	RT.498+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	46'		2.0	796.57	787.35	0.64	1.10		2-18° BENDS & 1 HEADWALL REQ'D.	11
28	AR498+50	12"	GROUP L PIPE	41PR	201'		—	—	—	—	65.32		CONNECT TO STR. NO. 20	10
29	AR500+00	12"	STD. INLET TYPE E-7 & F.B.C.C.S. PIPE *	41PR	124'		4.4	800.84	784.98	0.64	6.60		2-18° BENDS & 1 HEADWALL REQ'D.	11
30	LT.500+50	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	72'		2.0	802.49	784.90	0.64	1.73		2-18° BENDS & 1 HEADWALL REQ'D.	11
31	RT.500+50	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	50'		2.0	802.49	789.35	0.64	1.20		2-18° BENDS & 1 HEADWALL REQ'D.	11
32	LT.503+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	94'		2.0	809.20	784.50	0.64	2.27		2-18° BENDS & 1 HEADWALL REQ'D.	11
33	RT.503+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	72'		2.0	809.20	789.20	0.64	1.73		2-18° BENDS & 1 HEADWALL REQ'D.	11
34	LT.505+50	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	110'		2.0	813.65	784.10	0.64	2.67		2-18° BENDS & 1 HEADWALL REQ'D.	11
35	RT.505+50	12"	STD. INLET TYPE S 14 & F.B.C.C.S. PIPE *	41PR	88'		2.0	813.65	789.05	0.64	2.13		2-18° BENDS & 1 HEADWALL REQ'D.	11
36	RT.507+27	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	108'		2.0	815.76	786.61	0.64	2.62		2-18° BENDS & 1 HEADWALL REQ'D.	11
37	LT.507+95	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	118'		2.0	816.18	783.72	0.64	2.86		2-18° BENDS & 1 HEADWALL REQ'D.	11
38	AR508+71	30"	GROUP A PIPE *	41PR	212'	35°	3.5	785.59	783.50	5.79	36.57		2 HEADWALLS REQ'D. CONSTRUCT INLET & OUTLET DITCHES	11
39	RT.511+37	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	118'		2.0	815.34	782.33	0.64	2.86		2-18° BENDS & 1 HEADWALL REQ'D.	11
40	LT.512+23	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	96'		2.0	814.38	786.00	0.64	2.32		2-18° BENDS & 1 HEADWALL REQ'D.	11
41	LT.514+50	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	102'		2.0	808.62	781.50	0.64	2.47		2-18° BENDS & 1 HEADWALL REQ'D.	11
42	RT.516+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	104'		2.0	808.41	781.53	0.64	2.52		2-18° BENDS & 1 HEADWALL REQ'D.	11
43	LT.517+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	86'		2.0	802.29	780.50	0.64	2.08		2-18° BENDS & 1 HEADWALL REQ'D.	11
44	AR519+00	12"	STD. INLET TYPE E-7 & F.B.C.C.S. PIPE *	41PR	128'		4.2	796.24	779.70	0.64	6.70		2-18° BENDS & 1 HEADWALL REQ'D.	11
45	LT.519+50	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	64'		2.0	794.79	779.50	0.64	1.54		2-18° BENDS & 1 HEADWALL REQ'D.	11
46	LT.521+00	12"	STD. INLET TYPE S-14 & F.B.C.C.S. PIPE *	41PR	52'		2.0	790.35	779.06	0.64	1.24		2-18° BENDS & 1 HEADWALL REQ'D.	11
47	AR527+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	41PR	114'		8.3	780.69	775.93	0.29	6.35		1 HEADWALL REQ'D.	12
48	AR206+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	84'		4.0	777.16	774.09	0.29	5.62		1 HEADWALL REQ'D.	12
~~49~~	[illegible]	~~18"~~	~~REINF. CONC. PIPE~~	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		~~1 HEADWALL REQ'D. EXTEND EXISTING PIPE IN PLACE~~	13
50	AR165+80	18"	GROUP A PIPE *	GR.PR.	112'		8.7	786.54	785.10	0.80	9.29		2 HEADWALLS REQ'D.	13
51	AR.175+00	24"	GROUP A PIPE *	GR.PR.	140'		12.3	783.50	782.89	1.24	14.04		2 HEADWALLS REQ'D.	14
52			DELETED FROM PLANS											14
53			DELETED FROM PLANS											14
54	AR186+50	30"	GROUP A PIPE *	GR.PR.	172'		17.8	780.94	780.13	4.35	20.26		2 HEADWALLS REQ'D.	14
55			DELETED FROM PLANS											14
56			DELETED FROM PLANS											14
57			DELETED FROM PLANS											14
58	RT.193+10	8"	GROUP L PIPE	GR.PR.	42'		—	—	—	—	—		CONNECT TO EXISTING F.T. IN PLACE REMOVE EXISTING F.T. WITHIN R/W	14
59	AR196+45	12"	STD. INLET TYPE R-13 & F.B.C.C.S. PIPE *	GR.PR.	72'		2.8	784.83	776.29	0.29	3.97		2-11¼° BENDS & 1 HEADWALL REQ'D.	14
60	AR192+00	24"	GROUP A PIPE *	GL.PR.	72'		4.7	780.60	780.04	1.24	11.16		2 HEADWALLS REQ'D.	15
61	AR208+00	44^D'	GROUP G-1 PIPE GA. 16 F.B.C.C.S. PIPE ARCH	GL.PR.	62'		3.7	775.56	775.00	1.71	9.48		2 HEADWALLS REQ'D.	12
62			DELETED FROM PLANS											
63			DELETED FROM PLANS											
64			DELETED FROM PLANS											
65	AR213+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	54'		3.2	774.22	774.00	0.29	4.26		CONNECT TO STR. NO. 66	16
66	AR213+00	12"	STD. INLET TYPE R-13 & GROUP A PIPE *	G	56'		3.5	773.85	770.69	0.29	4.22		1 HEADWALL REQ'D.	16
67	AR215+50	12"	SPL. INLET TYPE R-13 & GROUP A PIPE *	G	56'		3.7	773.89	768.44	0.29	3.93		SAME AS STD. INLET EXCEPT THAT DIMENSION A1 = 4.09' 1 HEADWALL REQ'D.	16
68	AR219+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	104'		6.7	770.28	765.29	0.29	7.09		1 HEADWALL REQ'D.	16
69	AR222+80	6"	GROUP L PIPE	G	495'						62.53		CONNECT TO EXISTING F.T. REMOVE EXISTING F.T. WITHIN R/W	16
70	AR.224+60	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	92'		7.0	767.93	762.73	0.29	5.81		1 HEADWALL REQ'D.	16
71	AR.51+08.5	17.6^D'	GROUP G-2 PIPE GA. 12 F.B.C.C.S. PIPE ARCH	S-1-G REV.	82'	20°	6.8	762.71	762.31	2.95	7.23		2 PIPE ARCH ANCHORS REQ'D.	16
72	AR.59+00	15"	GROUP L PIPE	S-1-G REV.	129'		—	[illegible]	[illegible]	—	19.75		CONNECT TO EXISTING F.T. REMOVE EXISTING F.T. WITHIN R/W	28
73	AR227+97	34.6^D'	GROUP G-2 PIPE 2 @ 226'	G	452'	25°	5.0	761.7[illegible]	[illegible]	[illegible]8.64	350.57		4 STR. PLATE PIPE ARCH ANCHORS REQ'D. STR. PLATES: 12 GA. T.&S.; 10 GA. BOTTOM CONSTRUCT OUTLET DITCH, 2 PARALLEL LINES. 1-G-2 X 12" TEE REQ'D.	16
74	℄228+35	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	30'		3.0	764.6[illegible]	—	—	[illegible]		CONNECT TO STR. NO. 73	16
75	AR228+40	15"	GROUP L PIPE	G	69'		—	—	—	—	—		CONNECT TO EXISTING F.T. & DRAIN TO SIDE DITCHES REMOVE F.T. WITHIN R/W	16
76	AR.233+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	82		4.8	767.30	763.74	0.29	5.57		1 HEADWALL REQ'D.	16
77	AR239+37	8"	GROUP L PIPE	G	309		—	—	—	—	46.31		CONNECT TO EXISTING 8" F.T. REMOVE EXISTING 8" F.T. WITHIN R/W	17
78	AR240+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	80'		4.7	767.40	765.90	0.29	5.53		1 HEADWALL REQ'D.	17
79	AR247+00	12"	STD. INLET TYPE E-7 & GROUP A PIPE *	G	78'		4.6	769.08	768.38	0.29	5.48		1 HEADWALL REQ'D.	17
80	AR248+40	8"	GROUP L PIPE 2 @ 294'	G	588'		—	—	—	—	118.81		CONNECT TO EXISTING 8" F.T. REMOVE EXISTING 8" F.T. WITHIN R/W CONSTRUCT 2 PARALLEL PIPES.	17

* GA. NO. 16 FULLY BITUMINOUS COATED CORRUGATED STEEL PIPE WITH PAVED INVERT.

November 6, 1961

PROJECT NO	LINE	SHEET NO	TOTAL SHEETS	FILE
F-69(61)		36	183	

STRUCTURE DATA

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	37	183

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	LINE	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU YDS.	SPECIAL BORROW GRADE "B" CU YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
81	AR 254+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	70'		3.0	772.26	772.04	0.29	5.28		1 HEADWALL REQ'D.	17
82	AR 262+50	14.3°	GROUP G-1 PIPE (GA. 14 F.B.C.C.S. PIPE ARCH.)	G	200'	30°	3.0	771.36	770.70	2.69	66.99		2 PIPE ARCH ANCHORS AND 1 GROUP G-1 X 12" TEE REQ'D.	17
83	℄ 262+59		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	8'		1.0	772.80	—	0.29	0.18		CONNECT TO STR. NO. 82	17
84	AR 262+80	8"	GROUP L PIPE	G	238'		—	—	—	—	50.13		CONNECT TO EXISTING 8" F.T. REMOVE EXISTING 8" F.T. WITHIN R/W	17
85	AR 268+70	87.9°	GROUP G-2 PIPE (GA. 16 F.B.C.C.S. PIPE ARCH.	G	178'		4.8	773.79	772.00	2.13	41.61		2 PIPE ARCH ANCHORS AND 1 GROUP G-2 X 12" TEE REQ'D.	18
86	℄ 268+78		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	8'		1.0	775.40	—	—	0.18		CONNECT TO STR. NO. 85	18
87	AR 272+70	12"	GROUP L PIPE	G	339'		—	—	—	—	84.14		CONNECT TO EXISTING 12" F.T. REMOVE EXISTING 12" F.T. WITHIN R/W.	18
88	AR 275+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	72'		3.0	781.42	781.20	0.23	5.33		1 HEADWALL REQ'D.	18
89	AR 281+50	64°	GROUP G-1 PIPE (GA. 16 F.B.C.C.S. PIPE ARCH	G	144'		3.0	786.16	786.00	2.35	31.20		2 HEADWALLS AND 1 GROUP G-1 X 12" TEE REQ'D.	18
90	℄ 281+58		STD. INLET TYPE E-7B											
		12"	GROUP A PIPE *	G	8'		1.5	786.27	—	—	0.18		CONNECT TO STR. NO. 89	18
91	AR 51+50	30"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	46'		4.3	786.40	786.30	2.49	3.07		2 HEADWALLS REQ'D. CONSTRUCT INLET & OUTLET DITCHES	29
92	AR 47+30	42"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	56'		2.5	784.00	783.60	2.50	7.46		2 PIPE ANCHORS REQ'D. CONSTRUCT INLET & OUTLET DITCHES	29
93	RT 54+00	6"	GROUP L PIPE	S-P-C-B P.R.	12'		—	—	—	—	—		CONNECT TO EXISTING 6" R.C.P. & OUTLET INTO RT. SIDE DITCH REMOVE EXISTING 6" R.C.P.	29
94	AR 282+70	6"	GROUP L PIPE	G	285'		—	—	—	—	55.91		CONNECT TO EXISTING 5" F.T. REMOVE EXISTING 5" F.T. WITHIN R/W	18
95	AR 289+50		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	70'		2.5	794.97	794.85	0.29	5.28		1 HEADWALL REQ'D.	18
96	AR 294+39	6"	GROUP L PIPE	G	243'		—	—	—	—	42.22		CONNEC. TO EXISTING 4" F.T. REMOVE EXISTING 4" F.T. WITHIN R/W	18
97	AR 294+62.5	24"	GROUP A PIPE *	G	186'	30°	3.2	799.00	797.98	1.24	25.21		2 HEADWALLS REQ'D.	18
98	AR 314+00		STD. INLET TYPE N-12 B											
		15"	GROUP A PIPE *	G	60'		2.5	787.70	787.50	0.35	6.14		1 HEADWALL REQ'D.	19
99	AR 44+00	44°	GROUP H-1 PIPE (GA. 16 C.S. PIPE ARCH)	S-P-C-B P.R.	50'		4.0	783.50	781.98	1.71	1.23		2 HEADWALLS REQ'D.	30
100	AR 46+00	12"	GROUP L PIPE	S-P-C-B P.R.	78'		—	—	—	—	14.07		CONNECT TO EXISTING 12" V.C. PIPE REMOVE EXISTING 12" V.C.P. UNDER ROADWAY	30
100A	AR 46+10	64°	GROUP H-2 PIPE (GA. 16 C.S. PIPE ARCH)	S-P-C-B P.R.	56'		3.4	780.85	780.64	2.35	1.76		2 HEADWALLS REQ'D.	30
101	AR 46+34	10"	GROUP L PIPE	S-P-C-B P.R.	90'		—	—	—	—	14.31		CONNECT TO EXISTING 10" V.C. PIPE REMOVE EXISTING 10" V.C.P. UNDER ROADWAY	30
102	AR 48+00	44°	GROUP H-1 PIPE (GA. 16 C.S. PIPE ARCH)	S-P-C-B P.R.	50'		3.7	783.80	783.60	1.71	1.23		2 HEADWALLS REQ'D.	30
103	AR 52+15.5	15"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	54'		3.2	787.70	786.55	0.69	1.65		2 HEADWALLS REQ'D.	19
104	AR 321+45	12"	GROUP L PIPE	G	354'		—	—	—	—	118.11		CONNECT TO EXISTING 12" STORM SEWER REMOVE EXISTING 12" STORM SEWER WITHIN R/W	19
105	℄ 322+67		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	8'		4.5	778.17	—	—	0.18		CONNECT TO STR. NO. 106	19
106	AR 322+75	14.3°	GROUP G-2 PIPE (GA. 14 F.B.C.C.S. PIPE ARCH	G	192'		5.8	774.23	773.80	2.69	66.40		3 PIPE ARCH ANCHORS AND 1 GROUP G-2 X 12" TEE REQ'D.	19
107	AR 22+75	143°	GROUP H-1 PIPE (GA. 12 C.S. PIPE ARCH	ACCESS RD. #1	58'		1.3	773.80	773.50	2.69	4.00		2 PIPE ARCH ANCHORS REQ'D. CONSTRUCT INLET & OUTLET DITCHES	19
108	AR 336+35	6"	GROUP L PIPE	G	300		—	—	—	—	64.36		CONNECT TO EXISTING 6" F.T. & STR. NO. 109 REMOVE EXISTING 6" F.T. WITHIN R/W.	20
109	RT 337+30 LT 337+30	6"	DRAIN TILE	G	460'		—	—	—	—	—		CONNECT TO STR. NO. 108 & 6" F.T. IN PLACE	20
110	℄ 341+93		STD. INLET TYPE N-12 B											
		18"	GROUP A PIPE *	G	8'		4.2	769.20	—	—	0.24		CONNECT TO STR. NO. 111	20
111	AR 342+00	87°	GROUP G-2 PIPE (GA. 16 F.B.C.C.S. PIPE ARCH	G	176'		5.8	764.30	764.16	2.13	41.32		2 PIPE ARCH ANCHORS AND 1 GROUP G-2 X 15" TEE REQ'D.	20
112	AR 342+85	6"	GROUP L PIPE	G	276'		—	—	—	—	61.32		CONNECT TO EXISTING 4" F.T. REMOVE EXISTING 4" F.T. WITHIN R/W	20
113	AR 350+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	78'		4.5	761.70	751.10	0.29	5.48		1 HEADWALL REQ'D.	20
114	AR 356+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	76'		6'	757.35	756.84	0.29	5.42		1 HEADWALL REQ'D. CONSTRUCT OUTLET DITCH	21
115	AR 49+15	30"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	52'	40°	3.0	756.68	756.34	2.49	3.49		2 HEADWALLS REQ'D.	21
116	AR 56+70	15"	GROUP D PIPE (GA. 16 C.S.)	ACCESS RD. #3	58'	20°	3.7	757.95	756.76	0.69	1.78		2 HEADWALLS REQ'D.	21
117	AR 50+90.5	15"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	68'	20°	4.0	755.43	755.09	0.69	2.09		2 HEADWALLS REQ'D.	21
118	AR 364+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	68'		3.1	750.24	750.10	0.29	5.23		1 HEADWALL REQ'D.	21
119	℄ 370+80		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	8'		8.2	741.45	—	—	0.18		CONNECT TO STR. NO. 120	21
120	AR 370+84	24"	GROUP A PIPE *	G	216'	30°	9.3	735.79	734.60	1.24	26.82		FILL EXISTING OUTLET CHANNEL WITHIN R/W 2 HEADWALLS @ 1:24 X 12" TEE REQ'D.	21

* GA. NO. 16 FULLY BITUMINOUS COATED CORRUGATED STEEL PIPE WITH PAVED INVERT.

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	LINE	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU YDS.	SPECIAL BORROW GRADE "B" CU YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.
121	AR 376+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	98'		7.2	738.40	733.19	0.29	5.96		1 HEADWALL REQ'D.	21
122	AR 380+81.75		STD. INLET TYPE S-14 B											
		12"	GROUP A PIPE *	G	38'		2.8	741.47	740.30	—	1.21		CONNECT TO STR. NO. 123	21
123	AR 380+81.75		STD. INLET TYPE T-14 B											
		12"	F.B.C.C.S. PIPE (GA. 16 / F.T.)	G	38		2.0	740.30	731.18	0.64	0.90		2-18° BENDS & 1 HEADWALL REQ'D.	21
124	AR 380+81.75		STD. INLET TYPE T-14 B											
		12"	GROUP A PIPE *	G	38'		2.8	740.70	740.30	—	4.00		CONNECT TO STR. NO. 125	21
125	AR 380+81.75		STD. INLET TYPE T-14 B											
		12"	F.B.C.C.S. PIPE (GA. 16 / F.T.)	G	38'		2.0	740.30	731.18	0.64	0.90		2-18° BENDS & 1 HEADWALL REQ'D.	21
126	AR 381+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	26'		2.8	741.04	740.70	—	0.61		CONNECT TO STR. NO. 124	21
127	AR 389+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	96'		7.0	741.54	736.20	0.29	5.91		1 HEADWALL REQ'D.	22
128	AR 397+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	74'		3.7	744.04	743.84	0.29	5.38		1 HEADWALL REQ'D.	22
129	AR 405+00		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	70'		4.1	745.87	745.56	0.29	5.27		1 HEADWALL REQ'D.	22
130	AR 410+85	24"	GROUP "L" PIPE	G	240'		—	—	—	—	118.35		CONNECT TO EXISTING 20" F.T. REMOVE EXISTING 20" F.T. WITHIN R/W	22
131	AR 411+00	143°	GROUP G-2 PIPE 2 @ 186' (GA. 14 F.B.C.C.S. PIPE ARCH	G	372'		5.7	744.00	743.40	5.38	107.43		4 PIPE ARCH ANCHORS REQ'D. CONSTRUCT INLET & OUTLET DITCHES	22
132	℄ 411+12		STD. INLET TYPE E-7 B										1 GROUP G-2 X 12" TEE REQ'D. CONSTRUCT 2 PARALLEL PIPES	22
		12"	GROUP A PIPE *	G	8'		5.5	74.700	—	0.29	0.18		CONNECT TO STR. NO. 131	22
132A	AR 416+50	12"	STD. INLET TYPE E-7 B GROUP A PIPE *	G	88'		5.1	749.56	745.32	0.29	5.72		1 HEADWALL REQ'D.	22
133	AR 417+55	12"	GROUP L PIPE	G	252'		—	—	—	—	74.95		CONNECT TO EXISTING 12" F.T. & STR. NO. 134 REMOVE EXISTING 12" F.T. WITHIN R/W	23
134	RT 417+70 LT 417+70	12"	GROUP F PIPE	G	180'		—	—	—	—	—		CONNECT TO STR. NO. 133 & 12" F.T. IN PLACE	23
135	AR 48+39	30"	GROUP D PIPE (GA. 16 C.S.)	S-P-C-B P.R.	102'	20°	8.8	746.78	746.52	2.49	6.98		2 HEADWALLS REQ'D.	23
136	AR 422+85		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	78'		5.2	749.58	747.84	0.29	5.47		1 HEADWALL REQ'D.	23
137	LT 437+30 TO 439+30	6"	DRAIN TILE	G	556'		—	—	—	—	—		CONNECT TO STR. NO. 139 & 8" F.T. IN PLACE REMOVE EXISTING 6" F.T. WITHIN R/W.	23
138	AR 436+60		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	64'		7.2	750.83	750.14	0.29	5.62		1 HEADWALL REQ'D.	23
139	LT 436+60 TO 437+30	6"	GROUP L PIPE	G	39'		—	—	—	—	3.56		CONNECT TO STRS. NO. 137 & 142	23
140	LT 437+00	24"	GROUP D PIPE (GA. 16 C.S.)	G	70'		7.3	750.29	750.19	1.24	3.67		2 HEADWALLS REQ'D.	23
141	RT 437+00	24"	GROUP D PIPE (GA. 16 C.S.)	G	52'		1.5	751.29	751.20	1.24	2.71		2 HEADWALLS REQ'D.	23
142	LT 437+00 TO 444+00	8"	DRAIN TILE	G	1732'		—	—	—	—	—		CONNECT TO STRS. NO. 139 & 150 REMOVE EXISTING F.T. WITHIN R/W.	24
143	AR 259+00		STD. INLET TYPE N-12 B											
		12"	GROUP A PIPE *	G	78'		5.0	751.36	751.05	0.29	5.47		1 HEADWALL REQ'D.	24
144	AR 264+08	—	REMOVE HDWLS & PLUG PIPE IN PLACE	G	—		—	—	—	0.25	—		—	24
145	AR 266+98.5		STD. INLET TYPE E-7 B											24
		12"	GROUP A PIPE *	G	90'		6.7	749.67	749.47	0.29	5.82		1 HEADWALL REQ'D.	24
146	LT 267+15	24"	GROUP D PIPE (GA. 16 C.S.)	G	38'		2.3	749.44	749.40	1.24	1.96		2 HEADWALLS REQ'D.	24
147	AR 271+36.5		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	92'		7.3	749.00	748.54	0.29	5.82		1 HEADWALL REQ'D.	24
148	AR 272+95	6"	DRAIN TILE	G	18'		—	—	—	—	—		CONNECT TO EXISTING 5" & 6" F.T. CONNECT TO STR. NO. 150 REMOVE EXISTING 5" & 6" F.T. WITHIN R/W.	24
149	RT 271+83	30"	GROUP D PIPE (GA. 16 C.S.)	G	46'		4.9	746.87	746.81	2.49	3.07		2 HEADWALLS REQ'D.	24
150	LT 271+90 TO 282+30	10"	DRAIN TILE	G	1950'		—	—	—	—	—		CONNECT TO STRS. NO. 142 & 154 REMOVE EXISTING F.T. WITHIN R/W.	24
151	AR 281+83		STD. INLET TYPE P-12 B											
		12"	GROUP A PIPE *	G	74'		5.3	748.35	745.50	0.29	5.37		1 HEADWALL REQ'D.	24
152	RT 282+09	30"	GROUP D PIPE (GA. 16 C.S.)	G	46'		5.7	744.41	744.34	2.49	3.07		2 HEADWALLS REQ'D.	24
153	AR 285+50	30"	GROUP A PIPE *	G	154'		4.9	744.26	744.04	2.49	27.40		2 HEADWALLS REQ'D.	24
154	AR 284+60	10"	GROUP "L" PIPE	G	195'		—	—	—	—	56.25		CONNECT TO STRS. NO. 150 & 156 & TO EXISTING 10" F.T. @ LT. EDGE OF EXISTING PAVEMENT REMOVE EXISTING 6" & 10" F.T. IN PLACE	24
155	AR 285+57	—	PLUG EXISTING PIPE IN PLACE	G	—		—	—	—	0.30	—		—	25
156	LT 285+50 TO 287+30	6"	DRAIN TILE	G	276'		—	—	—	—	—		CONNECT TO EXISTING 6" F.T. & STR. NO. 154 REMOVE EXISTING 6" F.T. LEFT OF EXISTING PAVEMENT.	25
157	AR 288+90		STD. INLET TYPE E-7 B											
		12"	GROUP A PIPE *	G	66'		1.7	745.63	745.34	0.29	5.17		1 HEADWALL REQ'D.	25
158														25
159	LT 299+50.4	15"	GROUP D PIPE (GA. 14 C.S.)	G	34'		0.8	738.70	738.50	0.69	1.07		NO HEADWALLS REQ'D.	25

November 6, 1961

PROJECT NO	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		37	183	

STRUCTURE DATA

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	37A	183

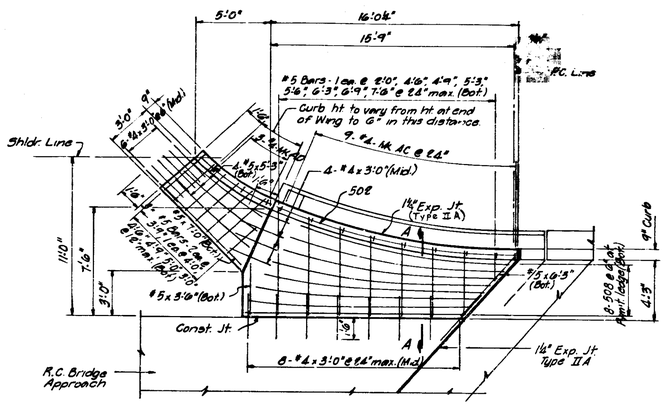
STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION GROUP	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV	CONCRETE CLASS "D" CU YDS	SPECIAL BORROW GRADE "B" CU YDS	REINFORCING STEEL LBS	REMARKS	PLANS ON SHEET NO
12/A	374+81 LT	6"	FBCPCS	50'						94			
12/B	377+81 RT	6"	FBCPCS	50'						94			
12/C	380+77 LT	6"	FBCPCS	50'						94			
12/D	380+77 RT	6"	FBCPCS	50'						94			

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION GROUP	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV	CONCRETE CLASS "D" CU YDS	SPECIAL BORROW GRADE "B" CU YDS	REINFORCING STEEL LBS	REMARKS	PLANS ON SHEET NO

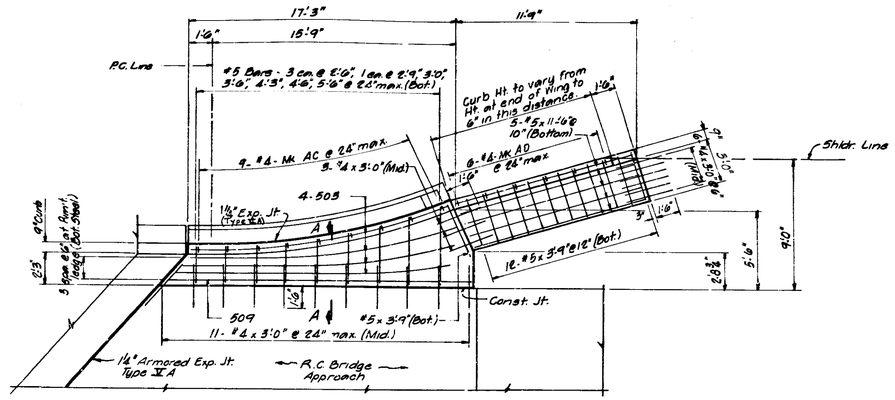
February 6, 1962

PROJECT NO	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		37A	183	

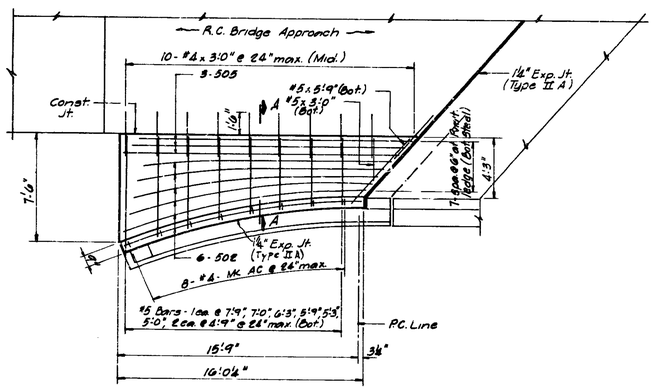
BRIDGES OVER 20' SPAN					
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	38	183



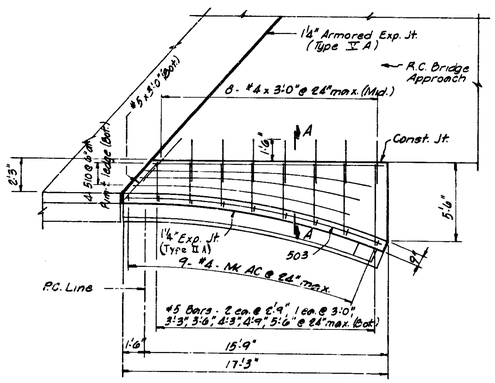
SOUTHWEST CORNER - BENT Nº 1 - N.B. STR.



NORTHWEST CORNER - BENT Nº 5 - N.B. STR.



SOUTHEAST CORNER - BENT Nº 1 - N.B. STR.



NORTHEAST CORNER - BENT Nº 5 - N.B. STR.

NOTES:
For additional details and Bill of Mat'l. see Dwg. Nº

For Southbound Structure, see Dwg. Nº

STRUCTURE Nº 1 (N.B.)
"USR-41" PR OVER C.C.C. & ST. L. RR. & LINE GL. PR
R.C.C. BRIDGE APPROACH DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE:- ¼" = 1'-0"

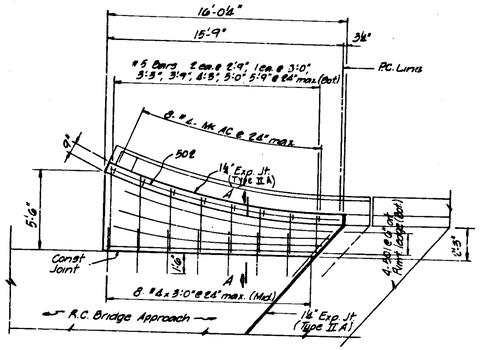
1965

SUBMITTED FOR APPROVAL:-

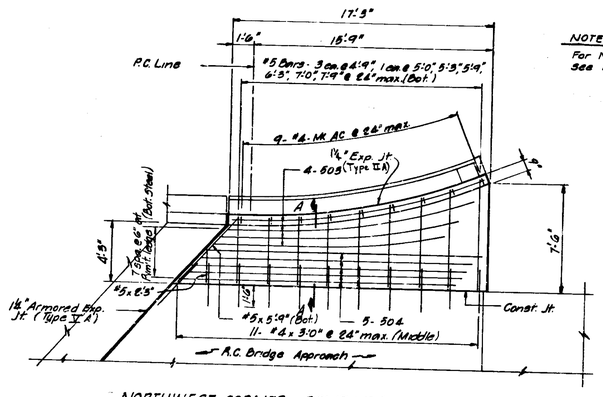
DRAWING:- OF
PROJECT:- F-69 (54)
BRIDGE CONTRACT NO.
BRIDGE FILE:- 41-Q-2394

DESIGNED — C'K'D
DRAWN RES 11-65 C'K'D FML 12-65
TRACED — C'K'D

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		38	183	



SOUTHWEST CORNER - BENT Nº 1 - S.B. STR.



NORTHWEST CORNER - BENT Nº 5 - S.B. STR.

NOTES:

For Northbound Structure, See Dwg. Nº

NORTHBOUND STRUCTURE

Bridges over 2C Span					
Fed. Road Req. No.	State	Project No.	Fiscal Year	Sheet No.	Total Sheets
4	IND.	F-69(61)	1966	39	183

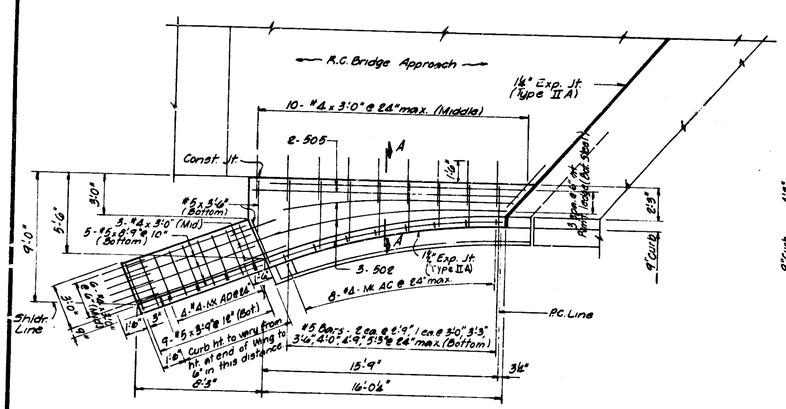
REINFORCING STEEL

Bige # Mark	No. of Bars Bent #1 SW	Bent #1 SE	Bent #5 NW	Bent #5 NE	Total	Length	Weight
502	1	6			7	16'-4"	
503			4	1	5	17'-7"	
503		3			3	18'-4"	
504	8				8	14'-10"	
504			1		1	20'-1"	
510				4	4	15'-7"	
#5			5		5	11'-6"	
		1			1	7'-9"	
	1				1	7'-6"	
	1	1			2	7'-0"	
				1	1	6'-9"	
	2	1			3	6'-3"	
		2			2	5'-9"	
	1		1	1	3	5'-6"	
	5	1			6	5'-3"	
	1	1			2	5'-0"	
	2	2		1	5	4'-9"	
	2		1		3	4'-6"	
			1	1	2	4'-3"	
	1				1	4'-0"	
	2		13		15	3'-9"	
	1		1	1	3	3'-6"	
				1	1	3'-3"	
	1	1	1	2	5	3'-0"	
			1	2	3	2'-9"	
			3		3	2'-6"	
	1				1	2'-0"	
Reinforcing for Std. Approaches					104	20'-6"	
					11	30'-8"	
					11	35'-11"	
Total Nº 5							3816
Mk AC	9	8	9	9	35	2'-4"	
Mk AD	3		6		9	1'-7"	
#4	18	10	20	8	56	3'-0"	
Total Nº 4							176
Total Steel							3991
R.C. CONCRETE PAVEMENT, 9"							
Std. Approaches							182.0
Widened Approaches							47.2
Total							229.2
MISCELLANEOUS							
1¼" Exp. Joint Type II A							110
1¼" Exp. Joint Type V A							42
1" Preformed Exp. Jt. W/Load Trans.							1-4

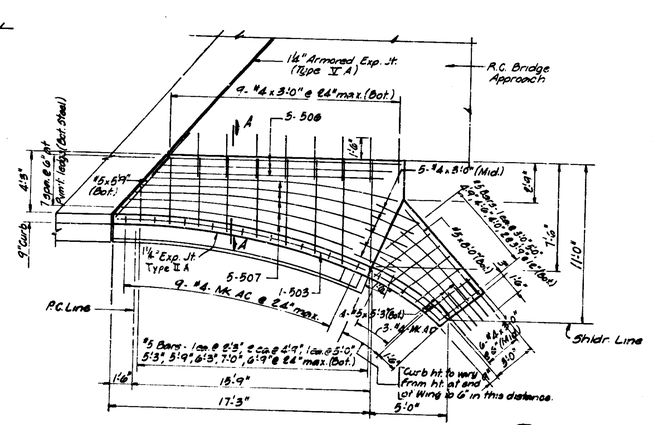
SOUTHBOUND STRUCTURE

REINFORCING STEEL

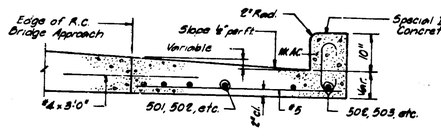
Bige # Mark	No. of Bars Bent #1 SW	Bent #1 SE	Bent #5 NW	Bent #5 NE	Total	Length	Weight
501	4				4	14'-4"	
502	1	3			4	16'-4"	
503			4	1	5	17'-7"	
504			5		5	18'-10"	
505		2			2	18'-4"	
506				3	3	15'-10"	
507				5	5	16'-10"	
#5		5			5	8'-9"	
				1	1	8'-0"	
			1		1	7'-9"	
			1	1	2	7'-0"	
				1	1	6'-9"	
			1	1	2	6'-3"	
	1		2	2	5	5'-9"	
		1	1	5	7	5'-3"	
	1		1	2	4	5'-0"	
		1	3	3	7	4'-9"	
	1			1	1	4'-6"	
				1	1	4'-3"	
		1		1	2	4'-0"	
	1	9		2	12	3'-9"	
		3			3	3'-6"	
	1	1			2	3'-3"	
	1	1		1	3	3'-0"	
	2	2			4	2'-9"	
			1	1	2	2'-3"	
Reinforcing for Std. Approaches					104	20'-6"	
					11	30'-8"	
					11	35'-11"	
Total Nº 5							3810
Mk AC	8	8	9	9	34	2'-4"	
Mk AD		1		3	7	1'-7"	
#4	8	19	11	20	58	3'-0"	
Total Nº 4							177
Total Steel							3987
R.C. CONCRETE PAVEMENT, 9"							
Std. Approaches							182.0
Widened Approaches							46.9
Total							228.9
MISCELLANEOUS							
1¼" Exp. Joint Type II A							110
1¼" Exp. Joint Type V A							42
1" Preformed Exp. Jt. W/Load Trans.							144



SOUTHEAST CORNER - BENT Nº 1 - S.B. STR.

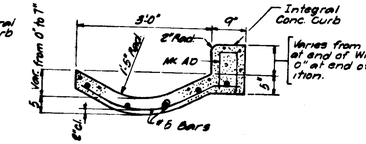


NORTHEAST CORNER - BENT Nº 5 - S.B. STR.



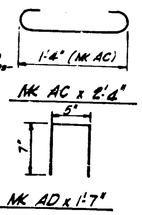
SECTION A-A

Scale: ½" = 1'-0"



TYPICAL SECT. THRU PAVED TRANSITION

Scale: ½" = 1'-0"



13'-9"	(501 x 14'-4")
15'-9"	(502 x 16'-4")
17'-0"	(503 x 17'-7")
16'-3"	(504 x 18'-10")
17'-9"	(505 x 18'-4")
15'-3"	(506 x 15'-10")
16'-3"	(507 x 16'-10")
14'-3"	(508 x 14'-10")
19'-6"	(509 x 20'-1")
15'-0"	(510 x 15'-7")

STRUCTURE Nº 2 (S.B.)

"US R-61 "PR OVER C.C.C. & St. L. RR. & "LINE "GL-PR"

R.C.C. BRIDGE APPROACH DETAILS

INDIANA STATE HIGHWAY COMMISSION

SCALE:- ½" = 1'-0" unless noted

1965

SUBMITTED FOR APPROVAL:-

DRAWING:- OF

PROJECT:- F-69 (54)

BRIDGE CONTRACT NO.

BRIDGE FILE:- 41-Q-E394-J

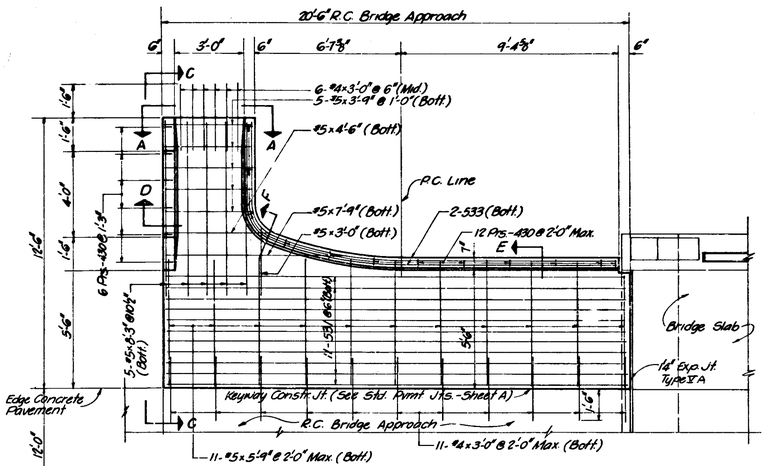
DESIGNED _____ C'K'D _____

DRAWN RFS. 11-65 C'K'D FML 12-65

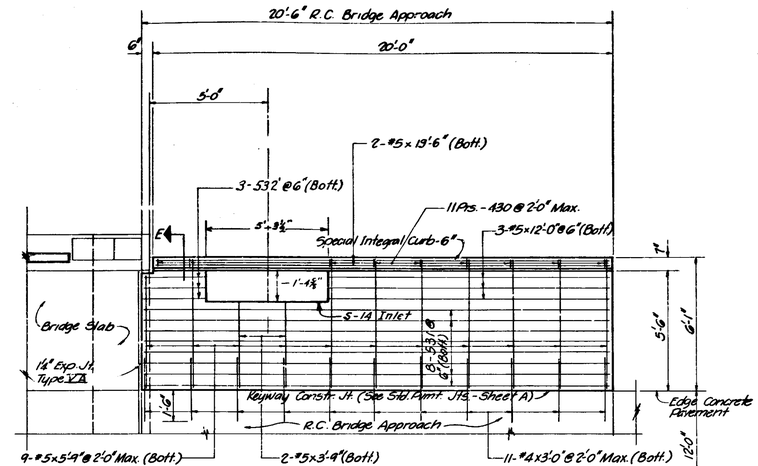
TRACED _____ C'K'D _____

Project No.	Line	Sheet No.	Total Sheets	File
F-69(61)		39	183	

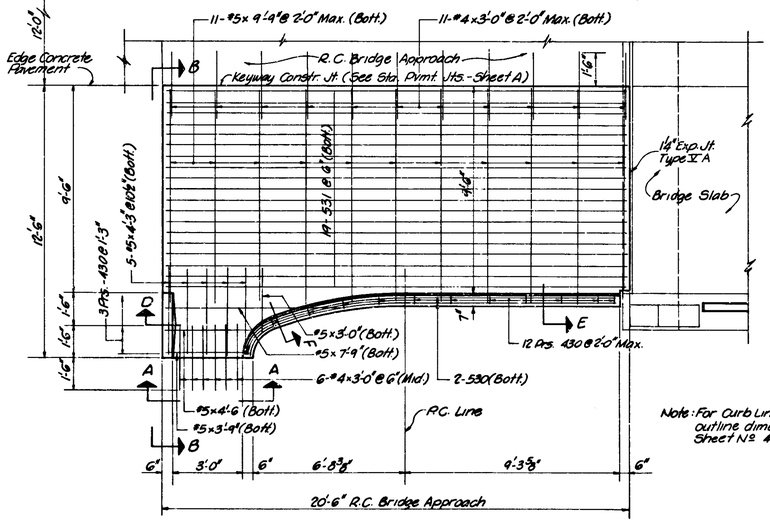
BRIDGES OVER 20' SPAN					
PUB ROAD REG NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	40	183



S.W. CORNER - N. BOUND STRUCTURE
(S.E. CORNER S. BOUND STRUCTURE SIMILAR)

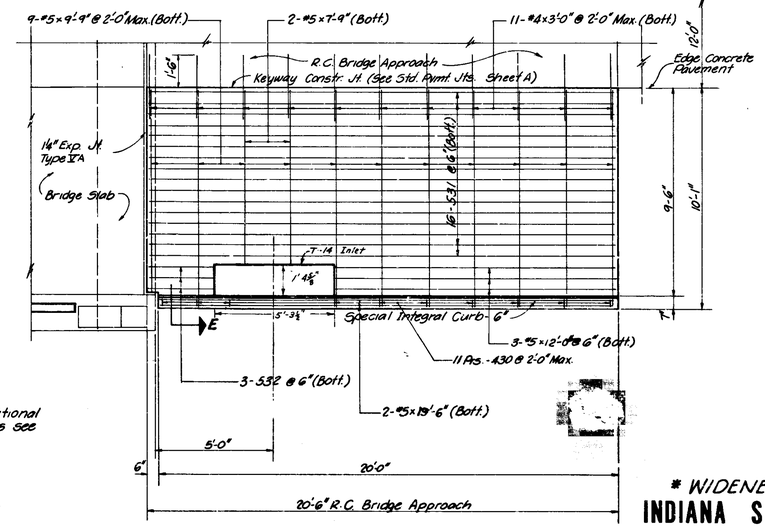


N.W. CORNER - N. BOUND STRUCTURE
(N.E. CORNER S. BOUND STRUCTURE SIMILAR) ℄ Approach Lane 7



S.E. CORNER - N. BOUND STRUCTURE
(S.W. CORNER S. BOUND STRUCTURE SIMILAR)

Note: For Curb Line Offsets and additional outline dimensions and details see Sheet No. 41



N.E. CORNER - N. BOUND STRUCTURE
(N.W. CORNER S. BOUND STRUCTURE SIMILAR)

*Items to be included in Road Summary.

* WIDENED R.C. BRIDGE APPROACH

INDIANA STATE HIGHWAY COMMISSION

SCALE:- ⅜" = 1'-0"

196

SUBMITTED FOR APPROVAL:-

DRAWING:- OF

PROJECT:- F-69(61)

BRIDGE CONTRACT NO.

BRIDGE FILE:- 41-R-5365

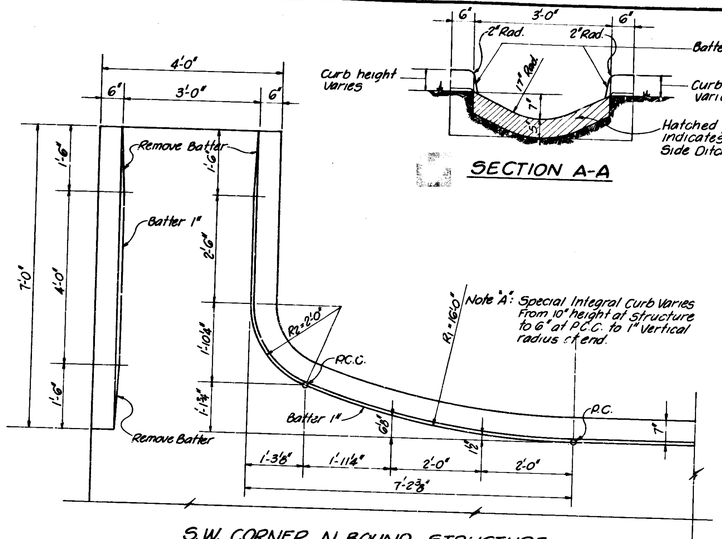
DESIGNED C'K'D

DRAWN JLH 8-65 C'K'D RAL 9-65

TRACED LRH 8-65 C'K'D

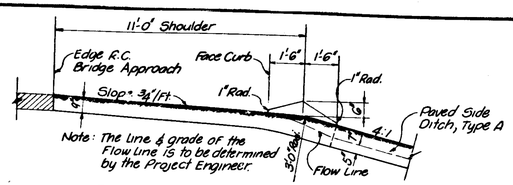
November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		40	183	

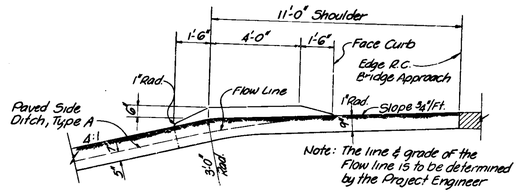


S.W. CORNER N. BOUND STRUCTURE
(S.E. CORNER S. BOUND STRUCTURE SIMILAR)

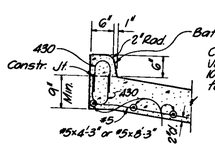
SECTION A-A



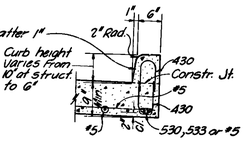
SECTION B-B
Scale : ⅜"=1'-0"



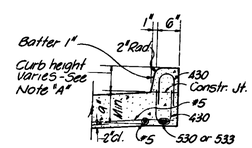
SECTION C-C
Scale : ⅜"=1'-0"



SECTION O



SECTION E

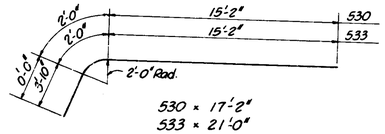


SECTION F

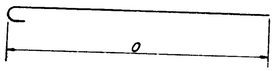
Note: In above sections, portion above construction joint is Special Integral Curb.

430 × 1'-8"

Note: For reinforcing bar notes See Bridge Std. C1

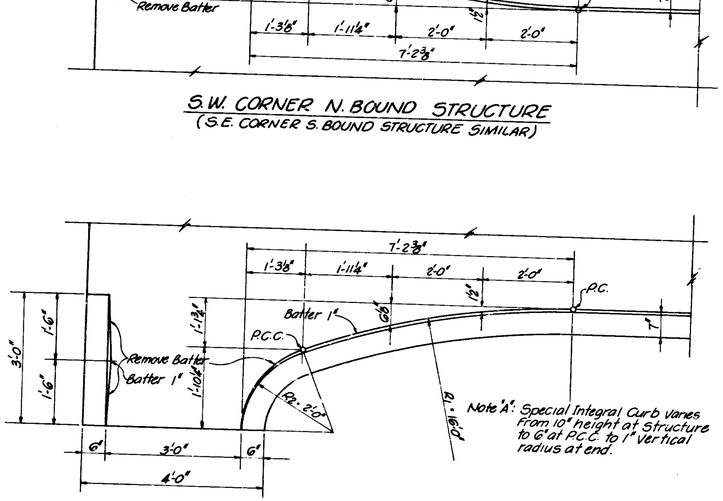


530 × 17'-2"
533 × 21'-0"



Size & Mark	O	Length
531	20'-0"	20'-7"
532	2'-3"	3'-0"

* Items to be included in Road Summary.



S.E. CORNER-N. BOUND STRUCTURE
(S.W. CORNER S. BOUND STRUCTURE SIMILAR)

CURB LINE OFFSETS & OUTLINES

BRIDGES OVER 20' SPAN

PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	41	103

BILL OF MATERIAL
N. BOUND STRUCTURE

REINFORCING STEEL

Size & Mark	No. of Bars S.W.	S.E.	N.W.	N.E.	Total	Length	Weight (Lbs.)
530	—	2	—	—	2	17'-2"	35.0
531	11	19	8	16	54	20'-7"	1159.1
532	—	—	3	3	6	3'-0"	18.9
533	2	—	—	—	2	21'-0"	43.8
#5	—	—	2	2	4	19'-6"	81.4
#5	—	11	—	9	20	9'-9"	203.4
#5	5	—	—	—	5	8'-3"	43.0
#5	1	1	—	2	4	7'-9"	32.3
#5	11	—	9	—	20	5'-9"	119.9
#5	1	1	—	—	2	4'-6"	9.4
#5	—	5	—	—	5	4'-3"	22.2
#5	5	1	2	—	8	3'-9"	31.3
#5	1	1				3'-0"	6.3
#5			3	3	6	12'-0"	75.1
					Total N° 5		1,881.8
430	36	30	22	22	110	1'-8"	122.7
#4	17	17	11	11	56	3'-0"	112.2
					Total N° 4		234.9
					Sub Total Steel		2,116.7
	Reinforcing For Std. Approach						
* A # 5					96	20'-6"	2052.6
* B # 5					22	23'-6"	539.2
					Total Steel		4709.0
	R.C.C. Pavement - 9" S.Y.						
	Standard Approach						109.3
	Widened Approach						76.8
					Total S.Y.		186.1
	SPECIAL INTEGRAL CONCRETE CURB - L.F.						
					Total L.F.		89.0
	MISCELLANEOUS						
1½" Exp. Jt.					Type VR L.F.		78
* 1" Preformed Exp. Jt. With Load Transfer L.F.							144

* See Miscellaneous Standard Sheet "M A" For Details.

* WIDENED R.C. BRIDGE APPROACH

INDIANA STATE HIGHWAY COMMISSION

SCALE:- ¾"=1'-0" Unless noted

196

SUBMITTED FOR APPROVAL:-

DRAWING:- OF

PROJECT:- F-69(61)

BRIDGE CONTRACT NO.

BRIDGE FILE:- 41-R-5365

DESIGNED ____ C'K'D ____
DRAWN JLH 2-65 C'K'D FHL 3-65
TRACED ERH 8-65 C'K'D ____

November 6, 1961

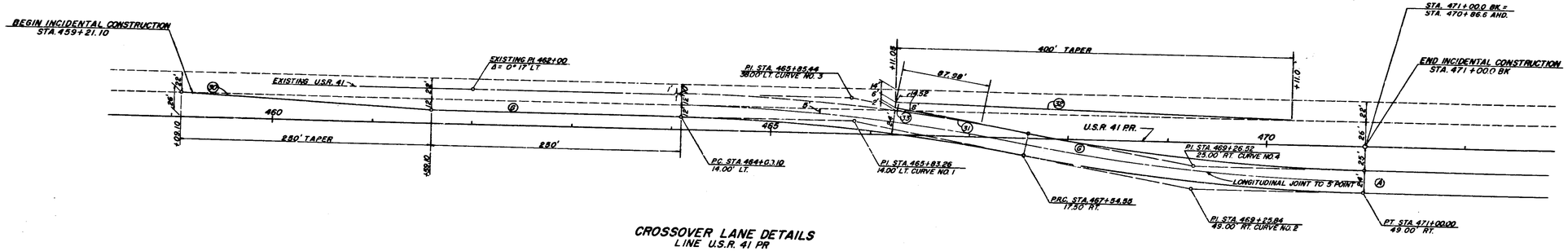
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		41	103	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(6)1	1966	42	183

CURVE NO'S 1 & 2
Δ = 10° 25' 14"
D = 3° 00'
T = 174.16'
L = 347.35'
E = 7.92'

CURVE NO. 3
Δ = 10° 25' 14"
D = 2° 57' 46"
T = 176.34'
L = 351.72'
E = 8.08'

CURVE NO. 4
Δ = 10° 25' 14"
D = 3° 02' 17"
T = 171.97'
L = 342.99'
E = 7.82'



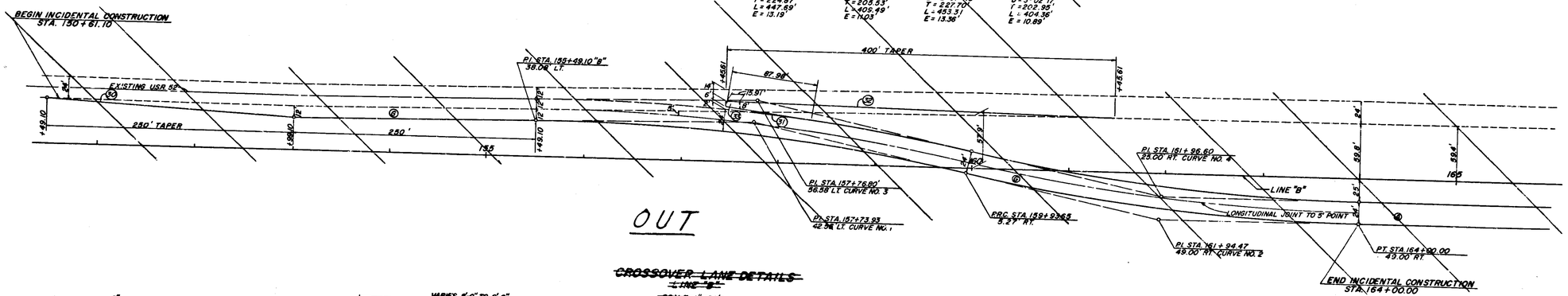
CROSSOVER LANE DETAILS
LINE U.S.R. 41 PR
SCALE 1" = 50'

CURVE NO. 1
Δ = 13° 25' 50"
D = 3° 00'
T = 224.87'
L = 447.69'
E = 13.19'

CURVE NO. 2
Δ = 12° 17' 05"
D = 3° 00'
T = 203.53'
L = 405.49'
E = 11.03'

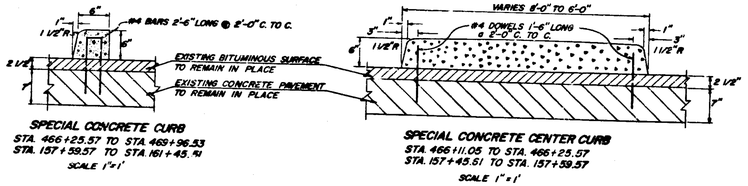
CURVE NO. 3
Δ = 13° 25' 50"
D = 2° 57' 46"
T = 227.70'
L = 453.31'
E = 13.36'

CURVE NO. 4
Δ = 12° 17' 05"
D = 3° 02' 17"
T = 202.95'
L = 404.36'
E = 10.89'



OUT

~~CROSSOVER LANE DETAILS~~
~~LINE "B"~~
~~SCALE 1"=50'~~



SPECIAL CONCRETE CURB
STA. 466+25.57 TO STA. 469+96.53
STA. 157+59.57 TO STA. 161+45.41
SCALE 1"=1'

SPECIAL CONCRETE CENTER CURB
STA. 466+11.05 TO STA. 466+25.57
STA. 157+45.51 TO STA. 157+59.57
SCALE 1"=1'

LEGEND

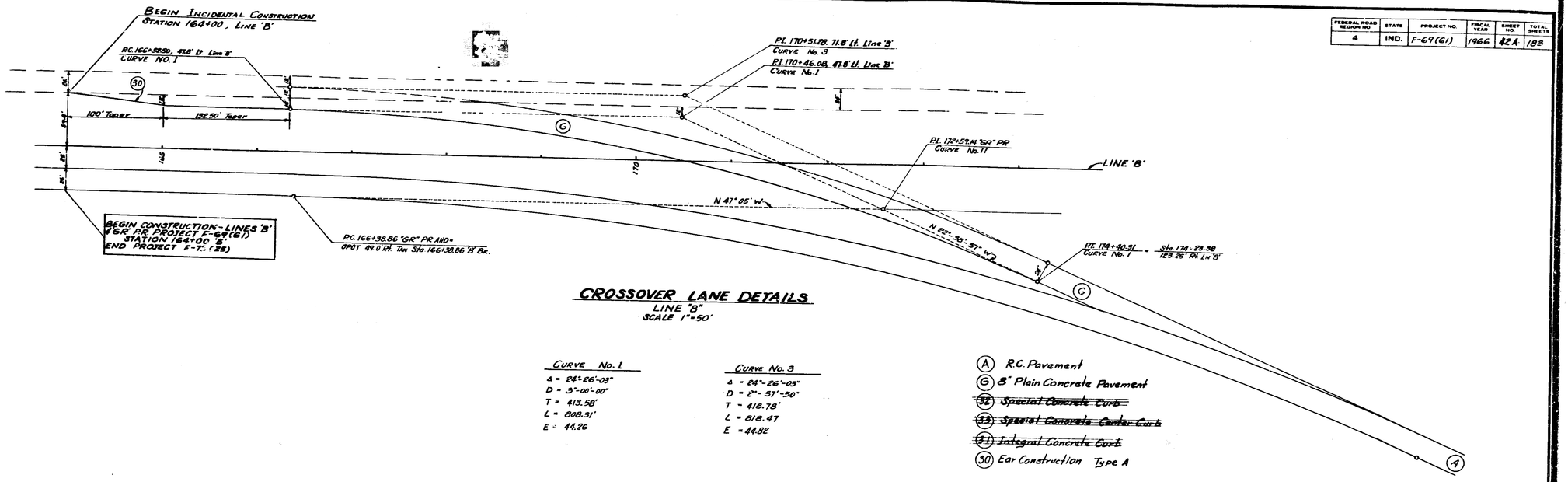
- (R) REINFORCED CONCRETE PAVEMENT
- (P) PLAIN CONCRETE PAVEMENT
- (K) KEYWAY CONSTRUCTION JOINT
- (E) EAR CONSTRUCTION TYPE "A"
- (I) INTEGRAL CONCRETE CURB
- (SC) SPECIAL CONCRETE CURB
- (SCC) SPECIAL CONCRETE CENTER CURB

DETAILS

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-59(6)1		42	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	42A	183

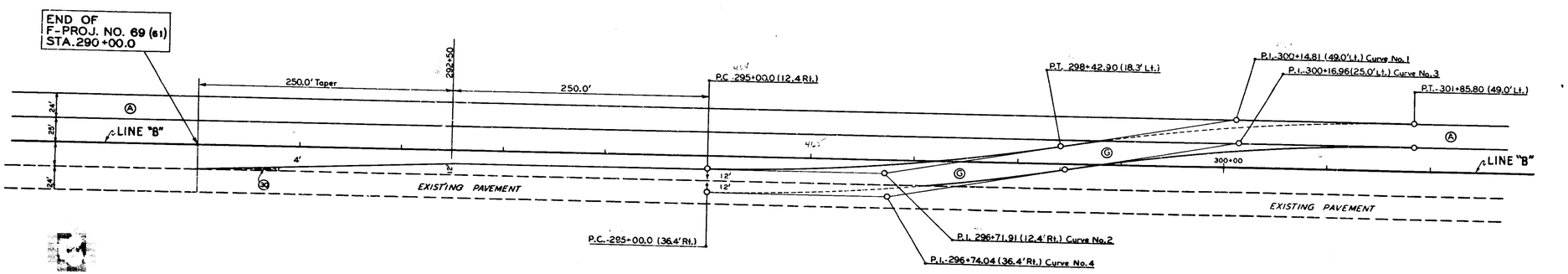


CROSSOVER LANE DETAILS
LINE "B"
SCALE 1"=50'

CURVE No. 1
Δ = 24°-26'-03"
D = 3°-00'-00"
T = 413.58'
L = 808.31'
E = 44.26

CURVE No. 3
Δ = 24°-26'-05"
D = 2°-51'-50"
T = 418.78'
L = 818.47
E = 44.82

(A) R.C. Pavement
(G) 8" Plain Concrete Pavement
~~(32) Special Concrete Curb~~
~~(33) Special Concrete Center Curb~~
~~(31) Integral Concrete Curb~~
(30) Ear Construction Type A



CURVE No's. 1 & 2
Δ=10°17'13"
D= 3°00'
T=171.91'
L=342.90'
E= 7.72'

CURVE No. 3
Δ=10°17'13"
D= 3°02'17"
T=169.75'
L=338.59'
E= 7.62'

CURVE No. 4
Δ=10°17'13"
D= 2°57'48"
T=174.07'
L=347.21'
E= 7.82'

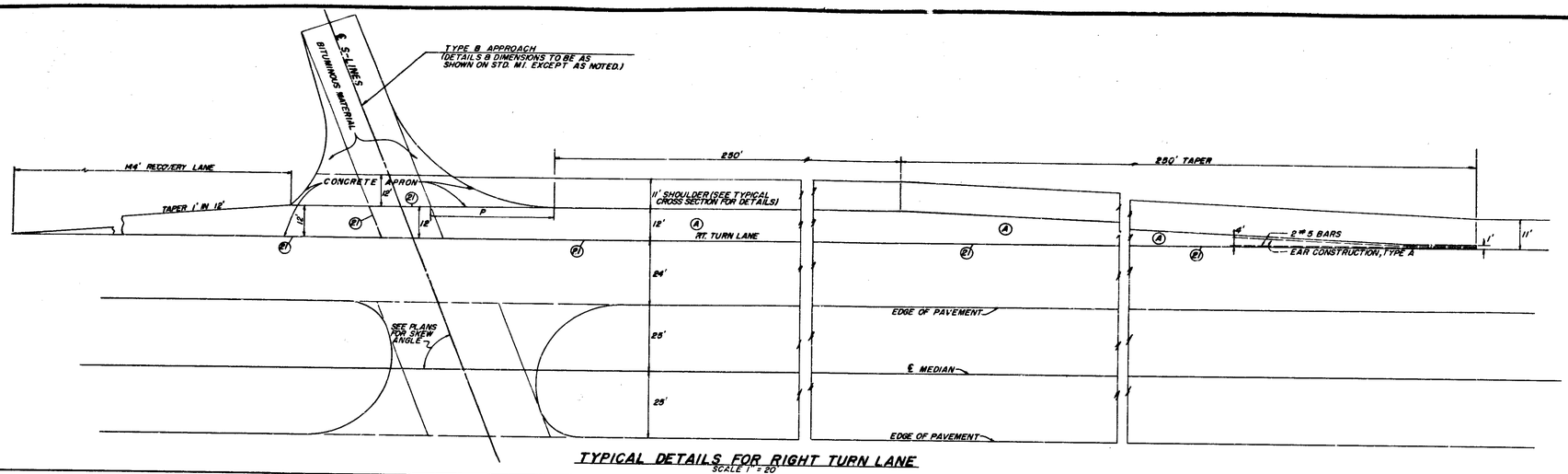
CROSSOVER LANE DETAILS LINE "B"
SCALE :- 1" = 50'-0"

DETAILS

November 6, 1964

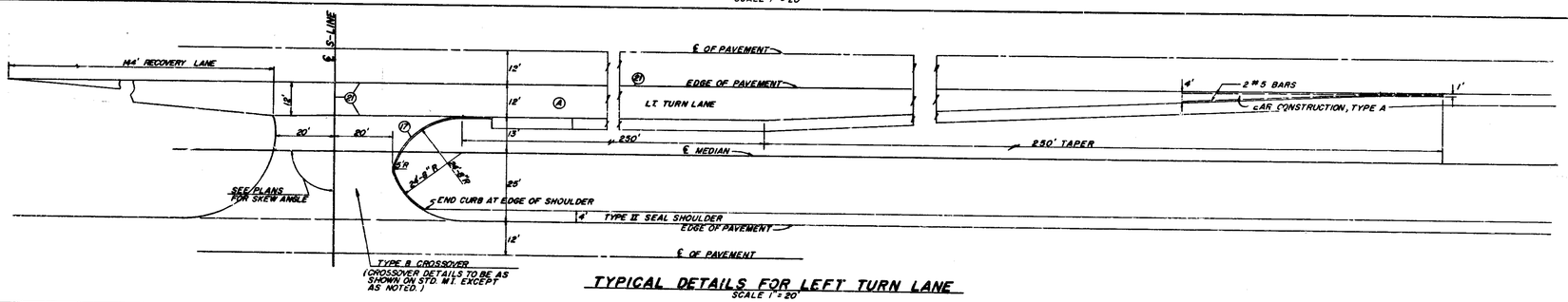
PROJECT NO	LINE	SHEET NO	TOTAL SHEETS	FILE
F-69(61)		42A	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	43	183



TYPICAL DETAILS FOR RIGHT TURN LANE

SCALE 1" = 20'



TYPICAL DETAILS FOR LEFT TURN LANE

SCALE 1" = 20'

TURN LANES REQUIRED AS FOLLOWS

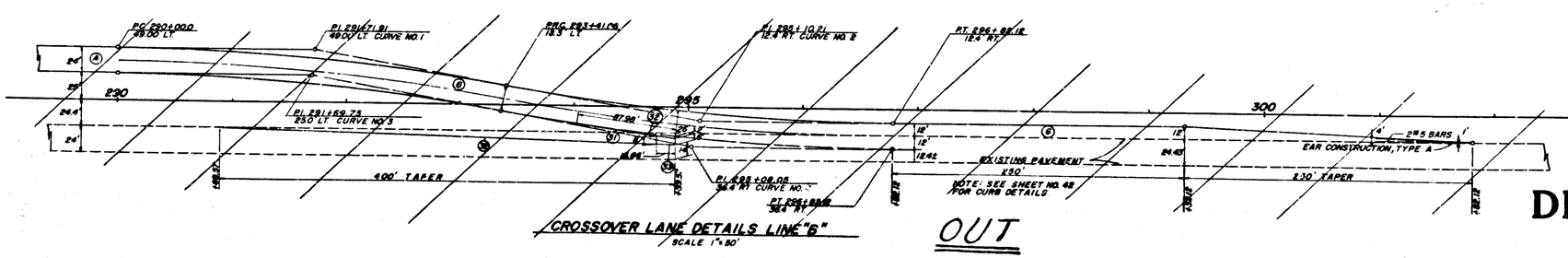
INTERSECTION	MAINLINE STA.	TRAFFIC DIRECTION	LANE REQ'D.
S-I-USR 41 GR.	482 + 54.99	SOUTH BOUND	RIGHT TURN
		SOUTH BOUND	LEFT TURN
		NORTH BOUND	RIGHT TURN
		NORTH BOUND	LEFT TURN
S-I-G REV.	225 + 00.0	NORTH BOUND	RIGHT TURN
S-4-G PR.		SOUTH BOUND	RIGHT TURN
		NORTH BOUND	LEFT TURN
S-5-G PR.	356 + 92.6	SOUTH BOUND	RIGHT TURN
S-6-G PR.	422 + 40.0	SOUTH BOUND	RIGHT TURN

CURVE NO'S 1 & 2
Δ = 10°-17'-13"
D = 3°-00'
T = 171.91'
L = 342.90'
E = 7.72'

CURVE NO. 3
Δ = 10°-17'-13"
D = 3°-08'-17"
T = 169.75'
L = 338.59'
E = 7.62'

CURVE NO. 4
Δ = 10°-17'-13"
D = 3°-57'-46"
T = 174.07'
L = 347.21'
E = 7.82'

LEGEND
- Ⓐ REINFORCED CONCRETE PAVEMENT
- Ⓑ PLAIN CONCRETE PAVEMENT
- (17) INTEGRAL CONCRETE CURB TYPE C
- (21) KEYWAY CONSTRUCTION JOINT
- (51) INTEGRAL CONCRETE CURB
- (52) SPECIAL CONCRETE CURB
- (53) SPECIAL CONCRETE CENTER CURB



CROSSOVER LANE DETAILS LINE "6"

SCALE 1" = 80'

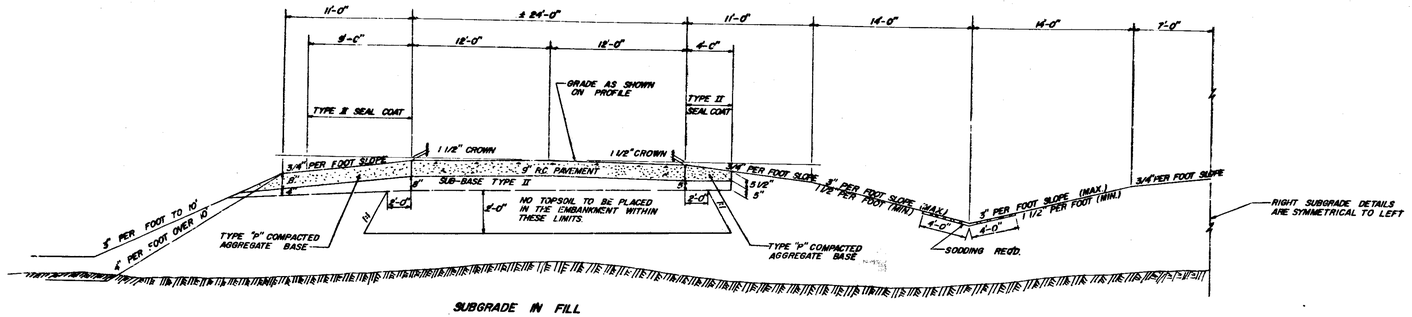
OUT

DETAILS

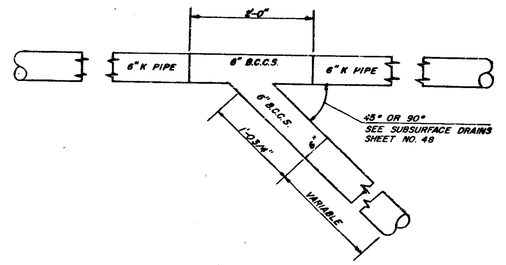
November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		43	183	

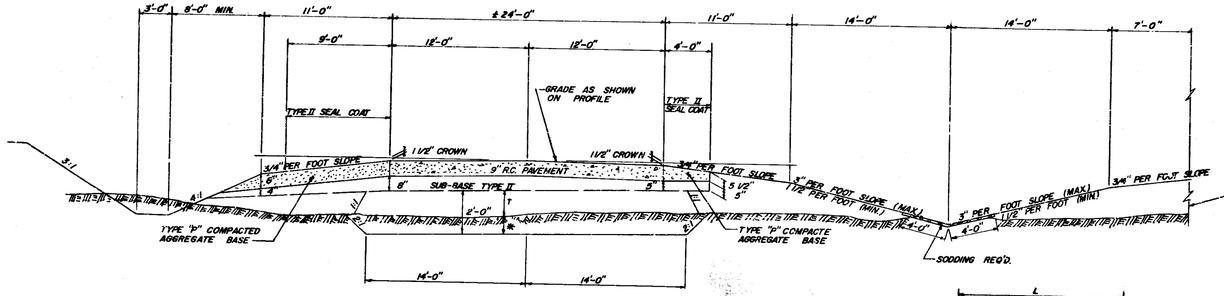
FEDERAL ROAD REGION NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	44	183



SUBGRADE IN FILL



SUBDRAIN CONNECTION



SUBGRADE IN CUT

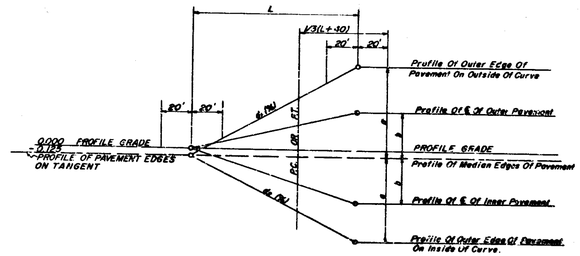
* TOPSOIL ENCOUNTERED WITHIN THESE LIMITS SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.

† SUITABLE MATERIAL ONLY.

± PAVEMENT WIDTH VARIABLE ON LINES "GR"PR AND "GL"PR

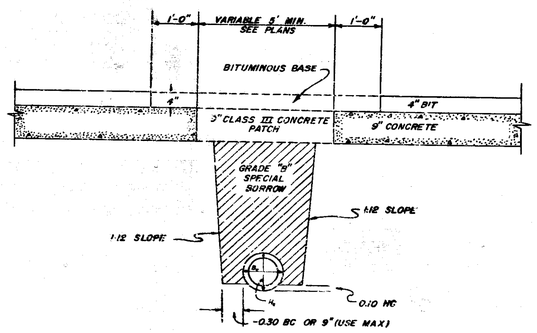
TYPICAL DETAILS FOR SUBGRADE TREATMENT

SCALE : 3/16" HOR. = 1'
3/8" VERT. = 1'

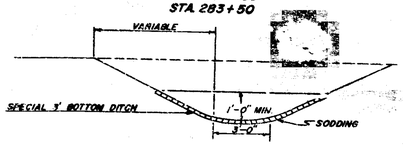


LINE	CURVE NO.	DEGREE OF CURVE	SUPER RATE	L	a	b	d_1	d_2
4 I PR	1 Rt.	0°45'	0.021	140	0.504	0.252	0.3600	0.3600
4 I PR	2 Lt.	2°30'	0.069	230	1.656	0.828	0.7200	0.7200
G	3 Lt.	1°00'	0.028	140	0.672	0.336	0.4800	0.4800
G	4 Rt.	1°30'	0.042	170	1.008	0.504	0.5929	0.5929

SUPERELEVATION TRANSITIONS
NOT TO SCALE



DETAIL OF PAVEMENT REMOVAL & PATCHING FOR PLACING PIPE UNDER EXISTING PAVEMENT
STR. NO. 153
STA. 283+50

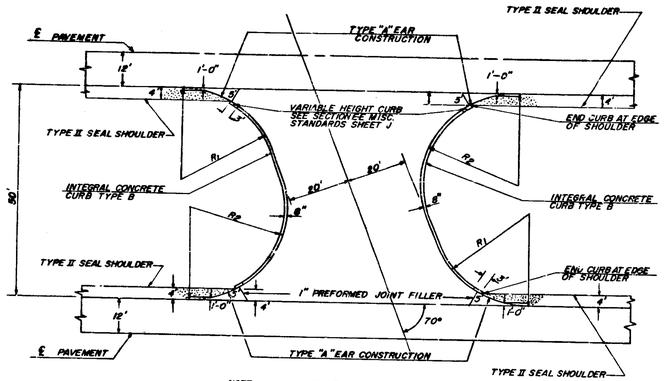


SODDED DITCH DETAIL

DETAILS

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)	8	44	183	

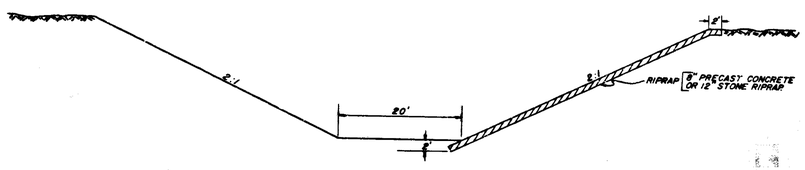


NOTE: R1 & R2 TO BE AS SHOWN ON APPROACH AND CROSSOVER TABLE

NOTE: ALL PUBLIC ROAD CROSSOVERS TO BE CONSTRUCTED OF STANDARD CONCRETE PAVEMENT. SEE MISCELLANEOUS STANDARD SHEET "J" FOR PAVEMENT AND CONSTRUCTION DETAILS.

TYPICAL DETAIL OF CURB CONSTRUCTION ON PUBLIC ROAD CROSSOVER TYPE "B"

NOT TO SCALE

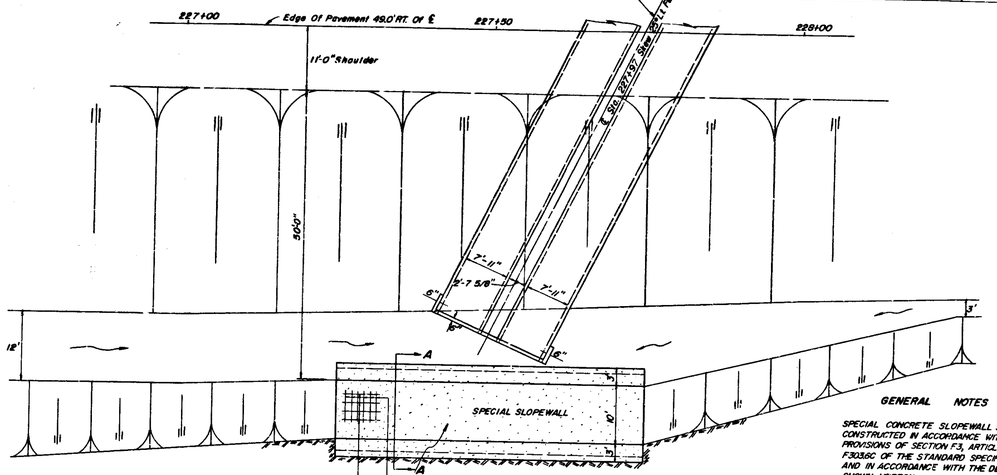


DETAILS OF SUGAR CREEK CHANNEL CHANGE

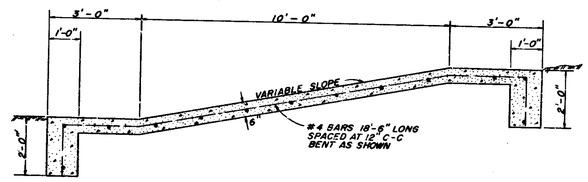
RT. STA. 380 + 30.25

Scale: 1"=10'

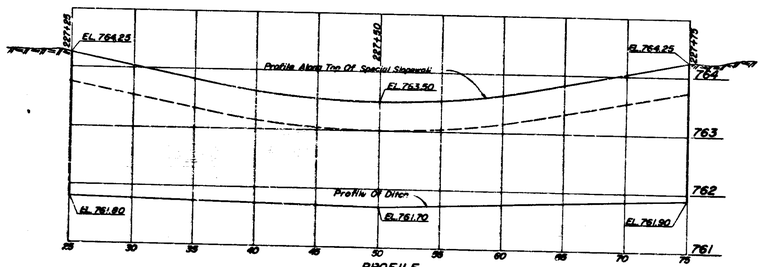
STRUCTURE NO. 73
2 ST. PLATE PIPE ARCHES
WATERWAY AREA 38.0 SQ. FT
SPAN 7'-11" RISE 5'-7"



PLAN VIEW
Scale 1"=10'



SECTION A-A
Scale 1"=2'



PROFILE
Scale: 1"=5' Vert.
1"=5' Hor.

DETAILS OF SPECIAL SLOPEWALL STA. 227+25 TO 227+75

GENERAL NOTES

SPECIAL CONCRETE SLOPEWALL SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF SECTION F3, ARTICLE F.303.SC OF THE STANDARD SPECIFICATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN HEREON.

SPECIAL CONCRETE SLOPEWALL SHALL BE MEASURED IN SQUARE YARDS. TOEWALLS SHALL BE CONVERTED INTO EQUIVALENT SQUARE YARDS OF SLOPEWALL AND PAID FOR AS SUCH.

"SPECIAL CONCRETE SLOPEWALL" WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD, WHICH PAYMENT SHALL INCLUDE AND BE FULL COMPENSATION FOR FURNISHING HAULING AND PLACING ALL MATERIALS INCLUDING REINFORCING STEEL, EXCAVATION, EDGING, CONSTRUCTING JOINTS, TOEWALLS, FORMS, FINISHING, CURING, BACKFILLING, AND FOR ALL LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SPECIFIED.

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	45	183

DETAILS

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		45	183	

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-69(61)	1966	46	183

APPROACH & CROSSOVER TABLE

DETAIL	DESCRIPTION	LINE	STATION	EXCAVATION CUT CYS.	EXCAVATION FILL CYS.	LENGTH FT.	WIDTH FT.	RADII FT.	SURFACING SQ YDS. SYS.	MIXTURE FOR BITUMINOUS SHOULDER 3" SYS.		MIXTURE FOR BITUMINOUS SURFACE 135#/SYD SYS.	TYPE "P" COMPACTED AGGREGATE BASE 3" SYS.	5" SYS.	8" SYS.	9" SYS.	6" SYS.	BITUMINOUS MATL. PRIME COAT 0.35 GAL/SY SYS.	BITUMINOUS MATL. TACK COAT 0.08 GAL/SY SYS.	BITUMINOUS MATL. SEAL COAT 0.20 GAL/SY SYS.	COVERING AGGREGATE 25 LBS/SY SYS.	6" CEMENT CONCRETE FOR CROSSOVER SYS.	8" PLAIN CONC. PAVEMENT SYS.	9" REINF. CONC. PAVEMENT SYS.	REINFORCING STEEL LBS.	INTEGRAL CONC. CURB TYPE "B" L.F.T.	INTEGRAL CONC. CURB L.F.T.	SPECIAL CONC. CURB L.F.T.	CONC. CENTER CURB SYS.	1" PREFORMED JOINT FILLER L.F.T.	1" PREFORMED EXPANSION JOINT W/LOAD TRANSFER L.F.T.	R/W MARKERS EACH		
	EARTH CROSSOVER	USR 41 P.R.	471+62	3	70	—	24	19'-31'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	CLASS "X" DRIVE	USR 41 P.R.	LT. 471+62	0	75	48	24	15'-25'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-1-USR 41 GR.	LT. 482+54.99	475	877	347.4	20	36'-38'	817.3	—	—	741.3	—	—	741.3	—	—	741.3	—	741.3	741.3	—	—	76.0	175.7	—	—	—	—	5	—	2		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-1-USR 41 G.R.	℄ 482+54.99	5	124	—	40	75'-8" 24'-8"	136.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-1-USR 41 GR.	RT. 482+54.99	34	675	354.6	20	38'-38'	833.0	—	—	757.0	—	—	757.0	—	—	757.0	—	757.0	757.0	—	—	76.0	175.7	—	—	—	—	20	44.2	—		
																														5	—	1		
	CLASS II DRIVE	S-1-USR 41 GR.	RT. 46+45.0	0	40	16.4	24	15'-25'	65.3	65.3		—	65.3	—	—	—	—	65.3	65.3	65.3	65.3	—	—	—	—	—	—	—	—	—	—	—		
	CLASS "X" DRIVE	S-1-USR 41 GR.	RT. 53+00.0	0	30	13	24	15'-25'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	CLASS II DRIVE	PR. DR.	82+18 TO 93+40	288	414	1113.0	12	15'-25'	1504.3	—	—	—	—	—	—	—	1504.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-1-G REV.	℄ 225+00	9	88	—	40	31'-8" 17'-8"	288.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288.9	107.4	100.4	—	—	—	20	42.6	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-1-G REV.	RT. 225+00	121	925	85.6	20	95'-5" 45'-5"	307.8	—	—	213.0	—	—	213.0	—	—	213.0	—	213.0	213.0	—	—	94.8	185.3	—	—	—	—	5	—	—		
	PUBLIC ROAD	S-1-G REV.	511+30.48 TO 66+33.45	3292	7330	1483.0	20		3295.6	—	—	3295.6	—	—	3295.6	—	—	3295.6	—	3295.6	3295.6	—	—	—	—	—	—	—	—	—	—	—		
† TYPE "B"	PUBLIC ROAD APPROACH	S-1-G REV.	66+33.45 TO 67+19	56	130	85.6	20	95'-5" 45'-5"	335.8	—	—	335.8	—	—	335.8	—	—	335.8	—	335.8	335.8	—	—	—	—	—	—	—	—	—	—	8		
TYPE "B"	PUBLIC ROAD APPROACH	S-2-G P.R.	LT 280+54.34	1498	1749	815.8	20	95'-5" 45'-5"	1956.5	—	—	1844.6	—	—	1844.6	—	—	1844.6	—	1844.6	1844.6	—	—	113.9	124.8	—	—	—	—	—	—	—		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-2-G P.R.	℄ 280+54.34	8	66	—	40	71'-8" 47'-8"	288.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	288.9	107.4	100.4	—	—	—	10	—	6		
TYPE "B"	PUBLIC ROAD APPROACH	S-2-G P.R.	RT. 280+54.34	2558	236	89.9	20	95'-5" 45'-5"	2103.3	—	—	1989.4	—	—	1989.4	—	—	1989.4	—	1989.4	1389.4	—	—	113.9	124.6	—	—	—	—	20	42.6	—		
	CLASS "X" DRIVE	S-2-G P.R.	RT. 41+65.5	0	17	15.6	24	15'-25'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	10	—	9		
† TYPE "B"	PUBLIC ROAD APPROACH	S-3-G P.R.	RT. 48+04.75 S-2-G P.R.	405	2633	552.0	18	36'	1229.4	—	—	245.4	—	—	1229.4	—	—	245.4	—	241.4	245.4	—	—	—	—	—	—	—	—	—	—	—		
† TYPE "B"	PUBLIC ROAD APPROACH	S-3R-G P.R.	LT 51+79.05 S-2-G P.R.	1100	680	560.6	18	95'-5" 45'-5"	1284.6	—	—	335.8	—	—	1284.6	—	—	335.8	—	335.8	335.8	—	—	—	—	—	—	—	—	—	—	6		
TYPE "B"	PUBLIC ROAD APPROACH	S-4-G P.R.	LT. 314+43.73	766	2899	745.0	20	95'-5" 45'-5"	1772.1	—	—	1677.3	—	—	1677.3	—	—	1677.3	—	1677.3	1677.3	—	—	94.8	185.3	—	—	—	—	—	—	6		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-4-G P.R.	℄ 314+43.73	6	88	—	40	24'-8" 21'-8"	211.7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	211.7	185.7	97.2	—	—	—	5	—	6		
TYPE "B"	PUBLIC ROAD APPROACH	S-4-G P.R.	RT. 314+43.73	562	196	382.4	20	95'-5" 45'-5"	994.3	—	—	880.4	—	—	880.4	—	—	880.4	—	880.4	880.4	—	—	113.9	124.6	—	—	—	—	20	43.8	—		
	CLASS "X" DRIVE	S-4-G P.R.	RT. 44+48 S-4-G P.R.	4	31	29.0	40	20'	148.0	148.0		—	148.0	—	—	—	—	148.0	148.0	148.0	148.0	—	—	—	—	—	—	—	—	10	—	2		
† TYPE "C"	PUBLIC ROAD APPROACH	LOCUST ST.	RT. 47+62.5 S-4-G P.R.	13	450	149.0	18'	25'	314.4	—	—	314.4	—	—	314.4	—	—	314.4	—	314.4	314.4	—	—	—	—	—	—	—	—	—	—	—		
	ACCESS RD. NO. 1	S-4-G P.R.	LT. 52+78.33 S-4-3 P.R.	0	272.6	99.4	18'	15'-25'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1		
TYPE "B"	PUBLIC ROAD APPROACH	S-5-G P.R.	LT. 356+92.6	~~449~~	102	65.0.8	20	95'-5" 45'-5"	1514.4	—	—	1452.3	—	—	1452.3	—	—	1452.3	—	1452.3	1452.3	—	—	82.1	143.8	—	—	—	—	5	—	7		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-5-G P.R.	℄ 356+92.6	8	66	—	40	95'-5" 45'-5"	334.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	334.5	102.6	97.7	—	—	—	20	50.9	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-5-G P.R.	RT. 356+92.6	714	1592	672.6	20	95'-5" 45'-5"	1640.2	—	—	1526.3	—	—	1526.3	—	—	1526.3	—	1526.3	1526.3	—	—	113.9	124.6	—	—	—	—	10	—	6		
*	ACCESS RD. NO. 2	S-5-G P.R.	LT. 48+57.32	1234	72	346.2	18	15'-25'	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-6-G P.R.	LT. 422+40	569	3444	593.1	22	62'-8" 39'-8"	1537.1	—	—	1426.6	—	—	1426.6	—	—	1426.6	—	1426.6	1426.6	—	—	110.5	143.8	—	—	—	—	5	—	4		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-6-G P.R.	℄ 422+40	8	66	—	40	90'-5" 74'-5"	334.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	334.5	102.5	97.7	—	—	—	20	50.9	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-4-B	LT 437+00.68	101	1393	849.4	20	38'	620.9	—	—	522.2	—	—	522.2	—	—	522.2	—	522.2	522.2	—	—	98.7	147.1	—	—	—	—	10	—	2		
TYPE "B"	PUBLIC ROAD CROSSOVER	S-4-B	℄ 437+00.68	8	66	—	40	71'-8" 47'-8"	283.1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	283.1	107.4	99.9	—	—	—	20	41.4	—		
TYPE "B"	PUBLIC ROAD APPROACH	S-4-B	RT. 437+00.68	451	70	252.6	20	38'	627.2	—	—	528.5	—	—	528.5	—	—	528.5	—	528.5	528.5	—	—	98.7	147.1	—	—	—	—	10	—	2		
	CLASS II DRIVE	B	LT 267+14.5	5	87	56	24	15'-25'	196.3	196.3		—	196.3	—	—	—	—	196.3	196.3	196.3	196.3	—	—	—	—	—	—	—	—	—	—	—		
	PR. DR. CROSSOVER	B	℄ 267+14.5	5	42	—	24	90'-5" 18'-5"	190.9	—	—	—	—	—	—	—	—	—	—	—	—	190.9	—	—	101.1	—	—	—	—	20	25.2	—		

NO RIGHT OF ENTRY REQUIRED FOR CONSTRUCTION OF DRIVES.

† APPROACH APRON SHALL BE CONSTRUCTED OF BITUMINOUS MATERIAL AND TYPE "P" COMPACTED AGGREGATE BASE.

* INCLUDES QUANTITY FOR CLASS "X" DRIVE.

DETAILS

THOMAS J. PEELER REGISTERED ENGINEER STATE OF INDIANA

November 6, 1961

PROJECT NO	LINE	SHEET NO	TOTAL SHEETS
F-69(61)		46	183

APPROACH & CROSSOVER TABLE

DETAIL	DESCRIPTION	LINE	STATION	EXCAVATION CUT CYS.	EXCAVATION FILL CYS.	LENGTH FT.	WIDTH FT.	RADII FT.	SURFACING REQD. SQ. YDS. SYS.	MIXTURE FOR BITUMINOUS SHOULDER 3" SYS.	BITUMINOUS SURFACE 90lb/SYD SYS.	BITUMINOUS BASE 240lb/SYD SYS.	TYPE "P" COMPACTED AGGREGATE BASE 3" SYS.	5" SYS.	8" SYS.	9" SYS.	6" SYS.	BITUMINOUS MAT'L PRIME COAT 0.35 gal/SY SYS.	BITUMINOUS MAT'L TACK COAT 0.08 gal/SY SYS.	BITUMINOUS MAT'L SEAL COAT 0.20 gal/SY SYS.	COVERING AGGREGATE 25 LBS/SY SYS.	6" CEMENT CONCRETE FOR CROSSOVER SYS.	8" PLAIN CONC. PAVEMENT SYS.	9" REINF. CONC. PAVEMENT SYS.	REINFORCING STEEL LBS.	INTEGRAL CONC. CURB TYPE "B" LFT.	INTEGRAL CONC. CURB LFT.	SPECIAL CONC. CURB LFT.	CONCRETE CENTER CURB SYS.	1" PREFORMED JOINT FILLER LFT.	1" PREFORMED EXPANSION JOINT W/LOAD TRANSFER LFT.
	PR. DR. CROSSOVER	B	℄ 271+82.5	5	247	—	24	30'-7" / 18'-7"	191.9	—	—	—	—	—	—	—	—	—	—	—	—	191.9	—	—	107.4	—	—	—	—	20	252
	CLASS II DRIVE	B	PT. 271+82.5	5	43	76.7	24	15'-25'	224.8	224.8			224.8	—	—	—	—	224.8	224.8	224.8	224.8	—	—	—	—	—	—	—	—	—	—
	PR. DR. CROSSOVER	B	℄ 282+09.0	5	254	—	24	30'-7" / 18'-7"	192.4	—	—	—	—	—	—	—	—	—	—	—	—	192.4	—	—	107.4	—	—	—	—	20	252
	CLASS II DRIVE	B	RT. 282+09.0	5	43	76.2	24	15'-25'	223.5	223.5			223.5	—	—	—	—	223.5	223.5	223.5	223.5	—	—	—	—	—	—	—	—	—	—
	CLASS II DRIVE	B	LT. 289+16.0	5	83	51	24	15'-25'	156.3	156.3			156.3	—	—	—	—	156.3	156.3	156.3	156.3	—	—	—	—	—	—	—	—	—	—
	PR. DR. CROSSOVER	B	℄ 289+16.0	5	43	—	24	30'-8" / 18'-8"	193.4	—	—	—	—	—	—	—	—	—	—	—	—	193.4	—	—	107.8	—	—	—	—	20	252
	CROSSOVER LANE	USR 41 PR.	459+21.1 TO 471+00	5210	242	1178.9	24	—	21670	—	—	—	—	—	—	—	—	—	—	—	—	2167.0	—	—	179.4	—	73.3	385.5	11.3	—	—
	CROSSOVER LANE	B	164+00 TO 178+40.57 (164 PVI)	872	8486	1476.97	24	—	2836.0	—	—	—	—	—	—	—	—	—	—	—	—	2836.0	—	—	179.4	—	~~81.8~~	~~374.0~~	~~10.9~~	—	—
	CROSSOVER LANE	B	290+00 TO 301+85.80	1837	546	1185.8	24	—	2139.2	—	—	—	—	—	—	—	—	—	—	—	—	2139.2	—	—	179.4	—	~~87.6~~	~~337.0~~	~~7.1.0~~	—	—
☆	MAIL BOX APPROACHES	—	—	—	—	—	—	—	268.2			—	268.2	—	—	—	—	268.2	268.2	268.2	268.2	—	—	—	—	—	—	—	—	—	—
DETOUR RD. NO.1	PASSING LANE	LT EXIST USR 41 / LT 330+50	—	452	0	800	0'-12'	—	733.3		733.3	733.3	—	—	—	733.3	—	733.3	733.3	—	—	—	—	—	—	—	—	—	—	—	—
DETOUR RD. NO.1	TEMP. CROSSOVER	USR 41 PR.	42+55.4 TO 50+00	396	903	673.5	24	50'-0" / 50'-0"	2103.7	—	—	—	—	—	—	—	—	—	—	—	—	2103.7	—	—	124.6	—	—	—	—	—	—
DETOUR RD. NO.1	TEMP. CROSSOVER	USR 41 PR.	523+00	0	58	—	24	50'-10"	279.1		279.1	279.1	—	—	—	279.1	—	279.1	279.1	—	—	—	—	—	—	—	—	—	—	—	—
	DETOUR RD. NO.2	G	LT. 430+40 TO 435+00	—	—	465.7	24	—	1244.6		1244.6	1,244.6	—	—	—	1244.6	—	620.0	620.0	—	—	—	—	—	—	—	—	—	—	—	—	—
	TEMP. CROSSOVER	B	253+00 TO 255+75.23	—	—	188.9	24	—	503.8		503.8	503.8	—	—	—	503.8	—	1244.6	1244.6	—	—	—	—	—	—	—	—	—	—	—	—	—
													—	—	—	503.8	—	503.8	503.8	—	—	—	—	—	—	—	—	—	—	—	—	—

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	47	183

NO DRIVES EXTEND BEYOND R/W.
NO RIGHT OF ENTRY REQUIRED FOR CONSTRUCTION OF DRIVES.

☆ MAILBOX APPROACHES SHALL BE CONSTRUCTED AT LOCATIONS SPECIFIED BY THE PROJECT ENGINEER. QUANTITY BASED ON 6 APPROACHES AT 44.7 S.Y. EACH.

DETAILS

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		47	183	

FEDERAL FUND REFERENCE NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-69(61)	1966	48	183

SUBSURFACE DRAINS

LINE	LOCATION FROM STA.	FROM ELEV.	TO STA.	TO ELEV.	SLOPE %	6" GROUP K PIPE LIN. FT.	OUTLET STA.	OUTLET LOCATION	45° BENDS	45° WYE	BACK FILL PIPE LIN. FT.	AVE. DEPTH OF TRENCH FT.	AGGREGATE FOR SUBSURFACE SQ. YDS.	GUIDE POSTS TYPE A EACH	SODDING SQ. YDS.	REMARKS
								NORTHBOUND PAVEMENT - LINE USR 41								
USR 41 PR	470+86.6 RT	792.47	473+30 RT	791.72	-0.244%	264	473+50	OUTLET IN RT SIDE DITCH	1		30	1.5	17	1		
USR 41 PR	478+00 RT	790.85	481+50 RT	790.01	-0.24%	350	481+50	OUTLET IN RT SIDE DITCH	1		34	1.5	22	1	2	
USR 41 PR	512+00 LT	815.14	523+00 LT	787.98	VARIABLE (STD)	1100	523+00	OUTLET IN RT SIDE DITCH LINE "BR" PR	1		162	1.5	70	1	2	
USR 41 PR	523+00 LT	787.88	206+10 LT	776.29	VARIABLE (STD)	1172	206+10	OUTLET IN RT SIDE DITCH	1		92	1.5	75	1	2	
G	251+50 RT	772.65	254+16 RT	773.29	+0.24%	268	251+50	OUTLET IN RT SIDE DITCH	1		36	1.5	17	1	2	
G	254+½0 RT	773.26	260+50 RT	774.81	+0.24%	630	254+20	OUTLET IN RT SIDE DITCH	1		32	1.5	40	1	2	ADJUST PIPE ELEV. TO FIT OVER STR. @ 254+00
G	276+50 RT	784.26	281+00 RT	788.31	+0.90%	450	276+50	OUTLET IN RT SIDE DITCH	1		26	1.5	29	1	2	
G	288+00 RT	794.61	294+80 RT	800.73	+0.90%	680	288+00	OUTLET IN RT SIDE DITCH	1		28	1.5	44	1	2	
G	295+24 RT	801.00	299+98 RT	802.33	+0.28%	474	295+25	OUTLET IN RT SIDE DITCH	1		34	2.0	43	1	2	
G	301+00 RT	802.32	314+50 RT	787.77	VARIABLE -1.08%	1450	314+50	OUTLET IN RT SIDE DITCH	1		34	1.5	93	1	2	
G	321+80 RT	779.62	328+00 RT	777.52	-0.80%	350	328+00	OUTLET IN RT SIDE DITCH	1		28	1.5	22	1	2	
G	317+80 LT	777.49	336+98 LT	772.22	-0.80%	878	336+98	OUTLET IN RT SIDE DITCH	1		78	1.5	56	1	2	
G	337+00 LT	772.21	345+80 LT	766.83	-0.80%	880	345+80	OUTLET IN RT SIDE DITCH	1		80	1.5	56	1	2	
G	346+50 RT	766.41	348+50 RT	765.21	-0.80%	200	348+50	OUTLET IN RT SIDE DITCH	1		30	1.5	13	1	2	
G	357+75 RT	757.98	364+00 RT	751.83	-1.00%	625	364+00	OUTLET IN RT SIDE DITCH	1		32	1.8	40	1	2	
G	354+05 RT	759.17	367+25 RT	747.71	-1.08%	320	367+25	OUTLET IN RT SIDE DITCH	1		46	1.5	21	1	2	
G	397+25 RT	745.10	403+75 RT	746.68	+0.24%	650	397+25	OUTLET IN RT SIDE DITCH	1		36	1.5	42	1	2	
								SOUTHBOUND PAVEMENT - LINE USR 41								
USR 41 PR	470+86.6 LT	792.47	472+00 LT	792.18	-0.284%	114	472+00	OUTLET IN LT SIDE DITCH	1		36	1.5	7	1	2	
USR 41 PR	478+00 LT	790.68	473+34 LT	791.00	+0.24%	134	478+00	OUTLET IN LT SIDE DITCH	1		28	1.5	9	1	2	
USR 41 PR	479+24 RT	790.89	483+00 RT	790.00	-0.24%	376	483+00	OUTLET IN LT SIDE DITCH	1	1	130	2.0	34	1	2	
USR 41 PR	483+00 RT	790.00	490+76 RT	791.86	+0.24%	776	483+00	OUTLET IN LT SIDE DITCH	1							
11	250+50 LT	772.41	260+26 LT	774.75	+0.24%	976	250+50	OUTLET IN LT SIDE DITCH	1		28	1.5	62	1	2	
9	276+50 LT	784.26	279+50 LT	786.96	+0.90%	300	276+50	OUTLET IN LT SIDE DITCH	1		30	1.5	19	1	2	
G	295+00 LT	800.83	298+98 LT	802.32	+0.30%	498	295+00	OUTLET IN LT SIDE DITCH	1		34	2.0	45	1	2	
G	300+00 LT	802.32	313+80 LT	788.11	VARIABLE -1.08%	1380	313+80	OUTLET IN LT SIDE DITCH	1		32	1.5	80	1	2	
G	324+00 LT	779.91	336+50 LT	771.83	VARIABLE -2.60%	1250	336+50	OUTLET IN LT SIDE DITCH	1		30	2.3	135	1	2	
G	346+50 LT	766.41	348+50 LT	765.21	-0.60%	200	348+50	OUTLET IN LT SIDE DITCH	1		30	1.5	13	1	2	
G	355+50 LT	760.34	367+00 LT	747.98	-1.00%	1150	367+00	OUTLET IN LT SIDE DITCH	1		42	1.5	73	1	2	
G	397+75 RT	746.01	410+90 RT	749.41	+0.24%	1314	397+76	OUTLET IN LT SIDE DITCH	1		56	1.6	91	1	2	
G	411+10 RT	749.43	423+00 RT	752.29	+0.24%	1190	411+10	OUTLET IN LT SIDE DITCH	1		106	1.5	83	1	2	
G	423+02 RT	752.29	431+00 RT	754.21	+0.24%	798	423+02	OUTLET IN LT SIDE DITCH	1		128	1.5	51	1	2	
G	431+02 RT	753.68	436+00 RT	754.88	+0.24%	498	431+02	OUTLET IN LT SIDE DITCH	1		102	1.8	41	1	2	
G	436+50 RT	754.88	249+00 "B" RT	754.04	-0.24%	350	249+00 "B"	OUTLET IN LT SIDE DITCH	1		92	1.7	26	1	2	
								INTERCHANGE								
G	209+00 LT	776.80	212+96 LT	775.30	-0.38%	396	212+96	OUTLET IN LT SIDE DITCH	1		86	2.1	38	1	2	
G	213+04 LT	775.27	215+48 LT	774.35	-0.38%	244	215+48	OUTLET IN LT SIDE DITCH	1		86	1.5	16	1	2	
GL PR	163+50 RT	785.30	190+00 RT	783.09	-0.34%	650	190+00	OUTLET IN RT SIDE DITCH	1		40	1.5	42	1	2	
GL PR	194+00 RT	781.76	198+00 RT	780.56	-0.24%	500	198+00	OUTLET IN RT SIDE DITCH	1		26	1.6	35	1	2	
GL PR	199+00 LT	780.78	201+50 LT	779.39	-0.56%	290	201+50	OUTLET IN LT SIDE DITCH	1		44	1.8	16	1	2	
											116					
						284'							195			37 BENDS @ 5' 1 WYE @ 5'
						284'		SUGAR CREEK BR. 4 PIPES @ 56'								2112' OUTLET PIPE @ 81 C.Y./100'
								C.G.C. & STL. RR. BR. 4 PIPES @ 56'								
						24533										
									37	1	2112		1819	37	74	

November 6, 1961

DETAILS

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-69(61)		48	183	

FED. AID PROJ. NO.	DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
—	IND.		F-69(61)	1966	49	183

TABLE OF QUANTITIES

DETAIL	DESCRIPTION	LINE	STATION	EARTHWORK CUT CYS.	EARTHWORK FILL* CYS.	SPECIAL BORROW CYS.	LENGTH FT.	WIDTH FT.	RADII FT.	SUBBASE TYPE II CYS.	REINFORCED CONCRETE PAVEMENT 9" SYS.	REINFORCING STEEL FOR PAVEMENT LBS.	TYPE "F" COMPACTED AGGREGATE BASE CYS.	MIXTURE FOR BITUMINOUS SHOULDERS 3" SYS.	MIXTURE FOR BITUMINOUS SHOULDERS 5" SYS.	TYPE II SEAL FOR SHOULDERS SYS.	BITUMINOUS MATERIALS APPLIED PRIME SYS.	BITUMINOUS MATERIALS APPLIED TACK SYS.	STRAIGHT FACED STEEL RAIL GUARD RAIL L.F.T.	DOUBLE FACED STEEL BEAM GUARD RAIL L.F.T.	BITUMINOUS CURB L.F.T.	SPECIAL INTEGRAL CONCRETE CURB L.F.T.	PAVED SIDE DITCH TYPE A L.F.T.	PAVED SIDE DITCH TYPE G L.F.T.	SODDING SYS.	CONTRACTION JOINT TYPE D-1 L.F.T.	1" PREFORMED EXP. JOINT WITH LOAD TRANSFER L.F.T.	PAVEMENT REMOVAL SYS.	R/W MARKERS EACH	BITUMINOUS SURFACE SYS.	BITUMINOUS BASE SYS.
	INTERCHANGE																														
PLAN & PROFILE	N.B. & S.B. U.S.R. 41	"U.S.R. 41 PR"	470 + 86.6 - 533 + 11.36	87,193	493857	—	6224.8	2@ 24	—	11,405	34,298.6	6694	4636	6399	698	1036.8	17,464	7096	38300		3365	—	80	—	6227	7717	2880	—	—	
	N.B. & S.B. U.S.R. 41	"G"	204 + 47.75 - 210 + 90.0			—	642.3	2@ 24	—	1296.8	3405.3	—	477	1081	—	774	1416	542	—	—	—	—	—	—	989	770.7	—	—	—	
	N.B. U.S.R. 52	"GR" PR	164 + 0.00 - 196 + 48.39	21,223	11,275	—	3248.4	24.14	—	*2824.1	8329.1	—	1097	2149	—	1423	3573	2150	11175	—	—	—	225	—	1857	1874.0	14.0	—	—	
	S.B. U.S.R. 52	B	164 + 0.00 - 175 + 95.47	24636	18,718	—	1195.5	24	—	—	—	—	308	—	—	74	98	—	—	—	—	—	—	—	—	—	—	—	
	S.B. U.S.R. 52	"GL" PR	175 + 94.19 - 211 + 82.33			—	3588.1	24.18	—	353	856.2.8	—	1804	—	—	0+31	5231	—	85.0	—	—	—	—	—	372	1949.1	18.0	—	—	
	GR TAPER		525 + 50.0 - 208 + 86.39	*	*	—	1200	18.0	—	*	1200.0	576	*	*	*	*	*	*	—	—	—	—	—	—	*	270.0	—	—	—	
	GL TAPER		210 + 90.0 - 222 + 90.0	*	*	—	1200	22.0	—	*	1829.6	286	*	—	*	*	*	*	—	—	—	—	—	—	*	411.7	—	—	—	
			SUBTOTAL	133,254	624,450	498,427	---	—	—	18,678	57,745.4	7556	8322	9629	698	17894	27,782	9888	50325		3365	—	305	—	9444	12,992.7	3210	26349	—	
	MAINLINE																														
PLAN & PROFILE	N.B. & S.B. LANES	G	210 + 90.0 - 438 + 99.3	—	—	—	22809.3	2@ 24	—	23356	1243263	10317	11,016	263	—	6374.2	64444	702	5600		206	178	439	—	36122	27973.4	288.0	5373	4	
	N.B. & S.B. LANES	B	248 + 47.9 - 253 + 00.0	—	—	—	452.1	2@ 24	—	761	2411.2	—	380	—	—	1306	1306	—	—	—	—	—	—	—	402	542.5	—	1206	—	
	N.B. & S.B. LANES	B	253 + 00.0 - 290 + 00.0	—	—	—	3700.0	1@ 24	—	3117	9866.7	—	3042	—	—	1010.4	1010.4	1973.3	—	—	—	—	—	—	4054	2220.0	—	—	—	9866.7	9866.7
			SUBTOTAL	275,712	484,429	216,906	—	—	—	27,234	1366042	10317	14438	263	—	7515.2	75854	20435	5600		206	178	439	—	40578	307359	288.0	6579	4	
PLAN & PROFILE	APPROACHES & CROSSOVERS		SUBTOTAL	27550	52670	*	—	—	—	1083	3065.3	3765	5666	1,282.4	—	—	2274.9	4563	—	—	—	—	—	—	4577	689.7	117.2	548.5	68	21,466.7	3,390.8
			TOTAL	436,516	1,150,256	725,053	—	—	—	46,996	197,414.8	21,638	28,426	11,174.4	698	93046	126,385	34,986	55925		3571	178	744	—	54599	44,418	1025.2	38413	72	31,333.4	13,247.5

* INCLUDED IN MAINLINE QUANTITIES
⊕ QUANTITY IN GORE INCLUDED IN MAINLINE QUANTITIES.

DETAILS

November 6, 1964

DEMOLITION PORTION ITEMS.

FEDERAL ROAD REGION NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F 69(60)(61)		49A	183

NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION GROUP	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE UP STREAM ELEV.	FLOW LINE DOWN STREAM ELEV.	CONCRETE CLASS "D" CU.YDS.	SPECIAL BRIDGE CONCRETE GRADE "M" CU.YDS.	REINFORCING STEEL LBS.	REMARKS	PLANS ON SHEET NO.

PARCEL NUMBER	STATION		LINE	DESCRIPTION OF BUILDINGS	ESTIMATED COST.	REMARKS	PLANS ON SHEET NO.
13	316+15	45'Rt	G	Frame House			
13	317+50	110'Rt	G	3 Concrete Grain Bins			
28	228+40	75'Rt	B	Frame House			

NOTE:- Parcel #28, F-69(60),(61) is same as Parcel #1, F-69(57),(58) With Acquisition under F-69-(57)(58)

February 6, 1962

PROJECT NO	LINE	SHEET NO	TOTAL SHEETS	FILE
F-69(60)(61)		49A	183	

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-69(61)	1966	50	183

ESTIMATE OF QUANTITIES

GRADING

ITEM	UNIT	QUANTITY
CLEARING RIGHT-OF-WAY		
LINEAR GRADING	MILE	
COMMON EXCAVATION	CYS	456,516
SOLID ROCK EXCAVATION	CYS	
WATERWAY EXCAVATION	CYS	1014
CLASS "Y" EXCAVATION	CYS	
WET EXCAVATION	CYS	
UNCLASSIFIED EXCAVATION	CYS	
SPECIAL BORROW	CYS	725,033
OVERHAUL	CYS	63,686
ADDED HAUL	UNITS	46,926
PEAT EXCAVATION	CYS	
PEAT EXCAVATION 15 TO 25 FT.	CYS	
PEAT EXCAVATION 25 TO 35 FT.	CYS	
SURCHARGE 4'	LFT	
SURCHARGE 4' - 8'	LFT	
SURCHARGE 8' - 12'	LFT	
SURCHARGE 12' - 16'	LFT	
SURCHARGE 16' - 20'	LFT	
SURCHARGE 20' - 24'	LFT	
MACHINE OPERATION	HRS	
MACHINE AVAILABILITY	HRS	
2" CASED TEST HOLE	LFT	
4" CASED TEST HOLE	LFT	
6" CASED TEST HOLE	LFT	
2" CASED DYNAMITE HOLES	LFT	
4" CASED DYNAMITE HOLES	LFT	
6" CASED DYNAMITE HOLES	LFT	
GRADE "B" SPECIAL BORROW	CYS	2522
PAVEMENT REMOVAL	SYS	40,453
SALVAGED PAVEMENT	SYS	
SURFACE REMOVAL	SYS	
BREAKING PAVEMENT	SYS	
CURB REMOVAL	LFT	
CENTER CURB REMOVAL		
CENTER CURB REMOVAL		
COMBINED CURB AND GUTTER REMOVAL	LFT	
LIP GUTTER REMOVAL	LFT	
GUTTER REMOVAL	LFT	
WALK REMOVAL	SYS	
STEPS REMOVAL	SYS	
GUARD RAIL SALVAGE	LFT	
RETAINING WALL REMOVAL		
RETAINING WALL REMOVAL		
PAVED SIDE DITCH REMOVAL	LFT	
REMOVAL OF PRESENT STRUCTURE	LUMP SUM	
REMOVAL OF PRESENT STRUCTURE	LUMP SUM	
TREE REMOVAL	"/CIR.	

THE QUANTITIES SHOWN ON THIS SHEET INCLUDES THE FOLLOWING ITEMS TO MITIGATE RIGHT OF WAY DAMAGES

ITEM	UNIT	QUANT. AP'1	QUANT. AP'2
COMMON EXCAVATION	CYS		1234
GRADE "B" SPECIAL BORROW	CYS	4	2
GROUP "H-1" Min. Area 14.3 sq ft	LFT	58	
GROUP "D" 15"	LFT		56
CLASS "D" CONCRETE	CYS	2.69	0.99

PAVEMENT

ITEM	UNIT	QUANTITY
CEMENT CONCRETE BASE (")	SYS	
CEMENT CONCRETE BASE (")	SYS	
H.E.S. CEMENT CONCRETE BASE (")	SYS	
H.E.S. CEMENT CONCRETE BASE (")	SYS	
CONCRETE PATCHES	SYS	
CLASS I CONCRETE PATCHES	SYS	
CLASS II CONCRETE PATCHES	SYS	
CLASS III CONCRETE PATCHES	SYS	18
CLASS IV CONCRETE PATCHES	SYS	
BITUMINOUS MIXTURE FOR PATCHES	TON	
CLASS I BITUMINOUS PATCHES	TON	
CLASS II BITUMINOUS PATCHES	TON	
CLASS III BITUMINOUS PATCHES	TON	
CLASS IV BITUMINOUS PATCHES	TON	
HOT ASPHALTIC CONCRETE BASE WIDENING	TON	
HOT A.E. BASE WIDENING	TON	
BITUMINOUS COATED AGGREGATE BASE WIDENING	TON	
CONCRETE WIDENING	SYS	
FILLING CRACKS AND JOINTS	TON	
BITUMINOUS MATERIAL FOR UNDERSEAL	TON	
DRILLING HOLES	EACH	
SUBBASE, TYPE II	CYS	46,996
SUBBASE, TYPE I OR II	CYS	
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS	
BITUMINOUS COATED AGGREGATE (DENSE GRADED)	TON	
TYPE "P" COMPACTED AGGREGATE BASE (2)	TON	56,853
TYPE "P" COMPACTED AGGREGATE SURFACE	TON	
TYPE " " COMPACTED AGGREGATE SHOULDER	TON	
PURE CALCIUM CHLORIDE	TON	92
HOT ASPHALTIC CONCRETE BASE	TON	
HOT ASPHALTIC CONCRETE BINDER	TON	
HOT ASPHALTIC CONCRETE BINDER FOR WEDGE AND LEVELING	TON	
HOT ASPHALTIC CONCRETE SURFACE, TYPE " "	TON	
HOT A.E. BASE	TON	
HOT A.E. BINDER	TON	
HOT A.E. BINDER FOR WEDGE AND LEVELING	TON	
HOT A.E. SURFACE, TYPE " "	TON	
BITUMINOUS BASE (7)	TON	1514
BITUMINOUS SURFACE	TON	1,916
BITUMINOUS COATED AGGREGATE BINDER FOR WEDGE AND LEVELING	TON	
BITUMINOUS COATED AGGREGATE SURFACE	TON	
MIXTURE FOR BITUMINOUS SHOULDER (1)	TON	2,036
BITUMINOUS MATERIAL APPLIED, PRIME (3)	TON	186
BITUMINOUS MATERIAL APPLIED, TACK COAT (4)	TON	12
BITUMINOUS MATERIAL APPLIED, SEAL (5)	TON	192
COVERING AGGREGATE (6)	TON	1,870
(7) INCLUDES FOR BITU. PATCH	TON	23
AGGREGATE FOR SHOULDER DRAINS	TON	

ITEM	UNIT	QUANTITY
REINFORCED CEMENT CONCRETE PAVEMENT (9")	SYS	197,415
REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINFORCED CEMENT CONCRETE PAVEMENT (")	SYS	
PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
PLAIN CEMENT CONCRETE PAVEMENT (8")	SYS	9246
H.E.S. PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
PRIVATE DRIVE PAVEMENT	SYS	
COMMERICAL DRIVE PAVEMENT	SYS	
CEMENT CONCRETE FOR CROSSOVER (6")	SYS	768
BITUMINOUS MIXTURE FOR CROSSOVER	TON	
CONTRACTION JOINT, TYPE "D-1"	LFT	44,418
1 INCH PREFORMED EXPANSION JOINT WITH LOAD TRANSFER	LFT	1025
1 1/4" EXPANSION JOINT TYPE II A	LFT	220
1 1/4" EXPANSION JOINT TYPE III A	LFT	
1½ INCH PREFORMED JOINT FILLER	LFT	
1 INCH PREFORMED JOINT FILLER	LFT	310
½ INCH PREFORMED JOINT FILLER	LFT	
1 1/4" EXPANSION JOINT TYPE V A	LFT	240
REINFORCING STEEL FOR PAVEMENT	LB	21,279
ANCHOR BOLTS	EACH	
BITUMINOUS MIXTURE FOR FRONTAGE ROADS	TON	
BITUMINOUS MIXTURE FOR APPROACHES	TON	
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS	
SALVAGED ROAD MATERIAL FOR BASE	CYS	
SALVAGED SURFACE MATERIAL FOR APPROACHES	CYS	
(2) INCLUDES FOR:-		
SHOULDERS	TON	45,521
APPROACHES	TON	9,642
TEMP. CROSSOVERS & DETOUR	TON	1,690
(3) INCLUDES FOR:-		
SHOULDERS (SEAL COAT)	TON	136.78
SHOULDERS (BIT)	TON	17.45
APPROACHES	TON	26.59
TEMP. CROSSOVERS & DETOURS	TON	4.97
(4) INCLUDES FOR:-		
SHOULDERS (BIT.)	TON	3.99
RESURFACE	TON	6.63
TEMP. CROSSOVERS & DETOURS	TON	1.14
(5) INCLUDES FOR:-		
APPROACHES	TON	16.27
SHOULDERS (SEAL COAT)	TON	175.86
(6) INCLUDES FOR:-		
APPROACHES	TON	242
SHOULDERS (SEAL COAT)	TON	1,628
(1) INCLUDES FOR PRIVATE DRIVES AND MAILBOX APPROACHES	TON	212
( ) INCLUDES FOR WEDGE AND LEVELING	TON	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
6 INCH HAND LAID RIPRAP	SYS	
12 INCH HAND LAID RIPRAP	SYS	
GROUTED RIPRAP	SYS	
PLACING HAND LAID RIPRAP 6"	SYS	
PLACING HAND LAID RIPRAP 12"	SYS	
RIPRAP	SYS	801
SLOPEWALL	SYS	
CONCRETE SLOPEWALL (")	SYS	
SPECIAL CONCRETE SLOPEWALL	SYS	123
STANDARD LIP GUTTER	LFT	
PAVED SIDE DITCH, TYPE "A"	LFT	474
PAVED SIDE DITCH, TYPE "G"	LFT	400
PAVED SIDE DITCH, TYPE " "	LFT	
PAVED SIDE DITCH, TYPE " "	LFT	
PAVED SIDE DITCH, TYPE " "	LFT	
INTEGRAL CONCRETE CURB	LFT	73
INTEGRAL CONCRETE CURB TYPE "B"	LFT	642
INTEGRAL CONCRETE CURB TYPE "C"	LFT	
SPECIAL INTEGRAL CONCRETE CURB	LFT	178
CONCRETE CURB	LFT	
CONCRETE CURB, TYPE "B"	LFT	
BITUMINOUS CURB	LFT	3571
CONCRETE GUTTER	LFT	
COMBINED CONCRETE CURB AND GUTTER	LFT	
REINFORCED CONCRETE GUTTER	LFT	388
RECONSTRUCTED COMBINED CONCRETE CURB AND GUTTER	LFT	
RESET CURB	LFT	
SPECIAL CONCRETE CURB	LFT	385
CONCRETE CENTER CURB		
CONCRETE CENTER CURB		
CONCRETE CENTER CURB, TYPE " "		
CONCRETE CENTER CURB, TYPE " "		
CONCRETE CENTER CURB, TYPE " "		
CONCRETE CENTER CURB TYPE " "		
BITUMINOUS CENTER CURB, TYPE " "		
BITUMINOUS CENTER CURB, TYPE " "		
SPECIAL CONCRETE CENTER CURB	SYS	11
STRAIGHT BEAM GUARD RAIL	LFT	5,592.5
DOUBLE-FACED STRAIGHT BEAM GUARD RAIL	LFT	
SHOP-CURVED BEAM GUARD RAIL	LFT	
SHOP-CURVED DOUBLE-FACED BEAM GUARD RAIL	LFT	
STOP SIGN R-1A	EACH	15
STOP AHEAD SIGN W-19A	EACH	12
YIELD SIGN R-901	EACH	14
REVERSE CURVE SIGN W-4A(R)	EACH	3
REVERSE CURVE SIGN W-4A(L)	EACH	2
SINGLE CURVE SIGN W-2A(R)	EACH	1
SINGLE CURVE SIGN W-2A(L)	EACH	3
GUARD FENCE	LFT	
RESET GUARD FENCE		
FENCE (FARM FIELD TYPE)	LFT	72,182
FENCE (CHAIN LINK TYPE)	LFT	
FENCE (BARBED WIRE)	LFT	
GATES (SINGLE)	EACH	
GATES (DOUBLE)	EACH	
RESETTING FARM FIELD TYPE FENCE	LFT	
PAINT FOR FOUR(4) INCH PAVEMENT STRIPE (INCLUDES FOR YELLOW BARRIER STRIPE - 8 GAL)	GAL	77
GUIDE POST, TYPE "A"	EACH	37
GUIDE POST, TYPE "B"	EACH	6
RESET GUIDE POST	EACH	
DELINEATORS, TYPE " "	EACH	
DELINEATORS, TYPE " "	EACH	
BARRICADES, TYPE "A"	EACH	6
BARRICADES, TYPE "B"	EACH	15
PERMANENT BARRICADES, TYPE "A"	EACH	
PERMANENT BARRICADES, TYPE "B"	EACH	
TYPICAL SIGN STANDARDS	EACH	42
STANDARD SIGNS	EACH	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
CONCRETE HEADER, TYPE "A"	LFT	
CONCRETE HEADER, TYPE "B"	LFT	
RECONSTRUCTED CONCRETE HEADER	LFT	
CEMENT CONCRETE SIDEWALK	SYS	
" EXPANSION JOINT FOR SIDEWALK	LFT	
CROSSWALK	SYS	
RIGHT-OF-WAY MARKERS	EACH	72
RESET RIGHT-OF-WAY MARKERS	EACH	
MONUMENTS TYPE "B"	EACH	1
MONUMENTS, TYPE "C"	EACH	27
MONUMENTS, TYPE "D"	EACH	5
MONUMENTS RE-ESTABLISHED	EACH	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EACH	
BENCH MARK POST	EACH	3
RESETTING BENCH MARK POST	EACH	
RAILROAD CROSSBUCK SIGN, TYPE "A"	EACH	
RAILROAD CROSSBUCK SIGN, TYPE "B"	EACH	
ADVANCE RAILROAD WARNING SIGN	EACH	
MAINTAINING TRAFFIC	LUMP SUM	1

MISCELLANEOUS

ITEM	UNIT	QUANTITY
CONDUIT (")	LFT	
HAND HOLE FOR STREET AND ALLEY	EACH	
HAND HOLE FOR SIDEWALK	EACH	
PEDESTAL FOUNDATION, TYPE "A"	EACH	
PEDESTAL FOUNDATION, TYPE "B"	EACH	
STEEL POLE FOUNDATION, TYPE "A"	EACH	
STEEL POLE FOUNDATION, TYPE "B"	EACH	
SODDING	SYS	54,599
FURNISHING AND PLACING AGRICULTURAL LIMESTONE	TON	310
FURNISHING AND PLACING FERTILIZER	TON	46.5
FURNISHING AND PLACING SEED	LB	10,854
FURNISHING AND APPLYING MULCHING MATERIAL	TON	368
PLAIN SEEDING	SYS	
MULCHED SEEDING	SYS	
STEEL FOR RECONSTRUCTED EXPANSION JOINT	LB	
FILLET WELD	LFT	
AGRICULTURAL OATS	LB	2,357
AGRICULTURAL RYE	LB	3,683

STRUCTURE SUMMARY

PIPE: LINEAL FEET

KIND / MIN. AREA SQ. FT. (#)		4.4	6.4	8.7		14.3	14.3	17.6	34.6
GAGE STRUCT. PLATES	TOP & SIDES								12
	BOTTOM								10
GAGE C.S. PIPE ARCH		16	16	16		14	12	12	
GROUP G-1		84	144			200			
GROUP G-2				354		564		82	452
GROUP G-3									
GROUP G-4									
GROUP H-1		100					58		
GROUP H-2			55						
GROUP H-3									
GROUP H-4									
CORR. METAL PIPE ARCH									
STRUCT. PLATE PIPE ARCH									
REINF. ELLIPTICAL CONC.									
BIT. COAT. CORR. METAL PIPE ARCH									
BIT. COAT. CORR. METAL PIPE ARCH WITH PAVED INVERT									

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

STRUCTURE SUMMARY (CON'T)

PIPE: LINEAL FEET

KIND / SIZE	4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"
GAGE C.S. PIPE		*18			16	16	16		16	16	14	16							
GAGE STRUCT. PLATES TOP & SIDES																			
GAGE STRUCT. PLATES BOTTOM																			
GROUP A					2679	155	426	—	614	724									
GROUP B																			
GROUP C																			
GROUP D					94	268	78		160	292		56							
GROUP E																			
GROUP F																			
GROUP P					1,792														
REINFORCED CONCRETE																			
EXTRA STRENGTH REINF. CONC.																			
HEAVY DUTY REINF. CONC.																			
VITRIFIED CLAY CULVERT																			
CORRUGATED METAL																			
FULLY BITUM. COATED CORR. METAL																			
FULLY BITUM. COATED CORR. STEEL WITH PAVED INVERT					1920														
GROUP L	—	6611	3736	1285	1,224	198		—	240	—	—								
R.C. SEWER OR V.C. SEWER																			
R.C. SEWER OR CONC. SEWER																			
CONCRETE SEWER																			
REINF. CONC. SEWER																			
VIT. CLAY SEWER				90	78														
*DRAINTILE	—	4354	3788	2950															
FULLY BITUMINOUS COATED PERFORATED CORR. STEEL		200																	

PIPE: GROUP "K" FOR SUBSURFACE DRAINAGE 6"	24533	LIN. FT.
PIPE: NON-PERFORATED FULLY BIT. COATED C.S. FOR SUBSURFACE DRAINAGE 6"	2112	LIN. FT.
AGGREGATE FOR SUBSURFACE DRAINAGE	1819	CYS

CASTINGS ADJUSTED TO GRADE
EACH

ITEM	UNIT	QUANTITY
CONCRETE CLASS "C" FOR STRUCTURES	CYS	113.2
REINFORCING STEEL FOR STRUCTURES	LB	
CONCRETE CLASS "F" FOR STRUCTURES	CYS	
CONCRETE CLASS "F" FOR INTEGRAL CURB WALL	CYS	

* INCLUDES UNDISTRIBUTED QUANTITIES

	GROUP "L"	DRAIN TILE	
6"	5000 LFT	6"	3600 LFT
8"	2500 LFT	8"	1500 LFT
10"	1000 LFT	10"	1000 LFT

BENDS & TEES ARE INCLUDED IN ABOVE PIPE QUANTITIES AS FOLLOWS
12" GROUP "A" PIPE 7 TEES AT 5' EACH = 35 LFT
15" GROUP "A" PIPE 1 TEE AT 5' EACH = 5 LFT
12" F.B.C.C.S.P. WITH P.I. 44 BENDS AT 2' EACH = 88 LFT

MANHOLES TYPE	MANHOLES EACH	CATCH BASINS TYPE	CATCH BASINS EACH	INLETS TYPE	INLETS EACH	INLETS TYPE	INLETS EACH	PIPE CATCH BASINS SIZE	PIPE CATCH BASINS EACH
				R-13	2	P-12	2		
				E-7	37	R-13 SPL.	1		
				F-7	1				
				S-14	18				
				T-14	3				
				N-12	3				

RECONSTRUCTED	LIN. FT.
MANHOLE	
CATCH BASIN	
INLET	

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

INLETS USING CASTING IN PLACE: TYPE | EACH

SEPTEMBER 1963