ROAD CONTRACT NO. R-6149

FEDERAL ROAD REGION NO.	STATE	F-PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875(8)	1961	1	198

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-IR	9/1/61	R- 8/11/61
	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	ST'D. PAVEMENT JOINTS SHEET "A"	5/23/62	R- 5/11/62
8-16, 26-28, 31-35, 41-43A	PLAN AND PROFILE		
43B	SHEET NO.7 of F-PROJ. NO. 875(2) (BRIDGE PROJECT)		
43C	SHEET NO.3 of F-PROJ. NO. 875(3) (BRIDGE PROJECT)		
43D	SHEET NO.5 of F-PROJ. NO. 875(4) (BRIDGE PROJECT)		
45-46	STRUCTURE DATA		
47	ESTIMATE OF QUANTITIES		
48	MISCELLANEOUS STANDARDS, SHEET "MA"	3/9/61	R-7/11/60
49	MISCELLANEOUS STANDARDS, SHEET "MB"		R-6/6/63
50	MISCELLANEOUS STANDARDS, SHEET "MC"	1/26/60	R-4/[illegible]/59
	MISCELLANEOUS STANDARDS, SHEET "MCI"		
51	MISCELLANEOUS STANDARDS, SHEET "MD"	1/26/60	R-3/26/59
	MISCELLANEOUS STANDARDS, SHEET "MDI"		
52	MISCELLANEOUS STANDARDS, SHEET "ME"	8/9/61	R-10/14/60
	MISCELLANEOUS STANDARDS, SHEET "MF"		
	MISCELLANEOUS STANDARDS, SHEET "MG"		
53	MISCELLANEOUS STANDARDS, SHEET "MH"	1/26/60	R-1/6/54
54	MISCELLANEOUS STANDARDS, SHEET "MI"	4/20/61	R-3/30/61
55	MISCELLANEOUS STANDARDS, SHEET "MJ"	1/26/60	R-4/17/59
	MISCELLANEOUS STANDARDS, SHEET "MK"		
56	MISCELLANEOUS STANDARDS, SHEET "MN"	5/9/61	R-4/11/61
57	MISCELLANEOUS STANDARDS, SHEET "MP"	6/5/52	R-5/25/62
59	MISCELLANEOUS STANDARDS, SHEET "MQ"	8/9/61	R-10/14/60
	MISCELLANEOUS STANDARDS, SHEET "MR"		
	MISCELLANEOUS STANDARDS, SHEET "S"		
	MISCELLANEOUS STANDARDS, SHEET "S-1"		
59A	MISCELLANEOUS STANDARDS, SHEET "MT"	5/1/63	R-3/18/63
60	MISCELLANEOUS STANDARDS, SHEET "MU"	5/1/61	R-2/8/61
	MISCELLANEOUS STANDARDS, SHEET "MV"		
	MISCELLANEOUS STANDARDS, SHEET "MV-1"		
58	MISCELLANEOUS STANDARDS, SHEET "MP1"	5/9/61	A-Oct. 1960
61	STANDARD STRUCTURE CONNECTIONS FOR EXTENSION	1/26/60	A-May 1934
62	ST'D. R.C. CULVERTS (SLAB TOP TYPE UNDER FILL) 15° SKEW	1/26/60	R-4/15/59
63	BRIDGE STANDARD, SHEET "C1"	6/21/63	R-5/1/63
64	BRIDGE STANDARD, SHEET "GRA"	11/3/61	R-5/25/61
65	BRIDGE STANDARD, SHEET "M2"	8/10/61	R-5/1/61
66	BRIDGE STANDARD, SHEET "M3"	9/28/61	R-3/15/61
67	ST'D. GUARD RAIL	8/9/61	R-10/20/60
68	BEAM GUARD RAIL	6/6/61	R-5/25/61
59B	MISCELLANEOUS STANDARDS, SHEET "MT-12"	5/1/63	R-4/11/63
69	ST'D. FOR SUPERELEVATION	2/27/61	A-Jan. 1961
70	ST'D. DETOUR SIGNS, SHEET 1		R-3/8/63
71	ST'D. DETOUR SIGNS, SHEET 2		R-3/8/63
72	ST'D. DETOUR SIGNS, SHEET 3		R-3/8/63
72A	ST'D. DETOUR SIGNS, SHEET 3A		R-3/8/63
73	ST'D. DETOUR SIGNS, SHEET 4	1/26/62	R-12/1/61
73A	ST'D. DETOUR SIGNS, SHEET 5		R-3/8/63
74-198	CROSS SECTIONS		

REVISIONS

SHEET NO.	DATE	REVISED
12 & [illegible]	[illegible]	Prop. Lines
8	9-19-62	Temp. R/W & elimination of some F.F.T. Fence.
10 & 11	9-19-62	Temp. R/W
28 & 33	10-16-62	R/W
13, 14, 15 & 17	12-3-62	[illegible]
8	2-22-63	Temp. R/W to Perm. R/W
15	2-22-63	Loc. of Class V Drive
[illegible] & 41	4-15-63	Loc. of Drives
8	[illegible]	[illegible]
[illegible] & 4	8-10-64	Shoulders
8, 9, 41 & 45	8-10-64	Add 2 Class II Drives and [illegible] Prop. Lines.

STATE OF INDIANA

STATE HIGHWAY DEPARTMENT

PLAN AND PROFILE OF PROPOSED STATE HIGHWAY

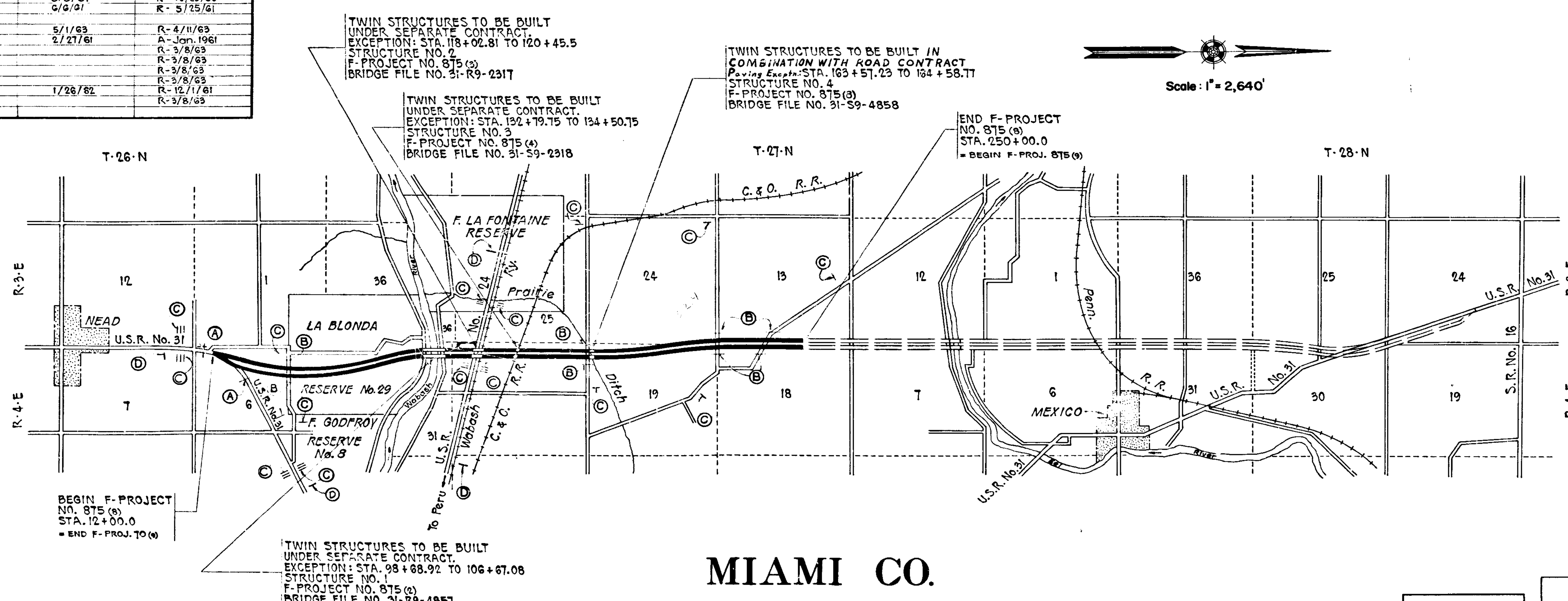
F-PROJECT NO. 875(1) P.E. & R/W
F-PROJECT NO. 875(8) CONSTR. & UTIL. ADJ.

BEGINNING AT A POINT ON U.S.R. NO. 31 APPROX. 491.6 FEET NORTH OF THE SOUTH LINE OF SECTION 6, T-26-N, R-4-E AND EXTENDING IN A NORTHERLY DIRECTION FOR A DISTANCE OF APPROX. 23,800 FEET TO A POINT APPROX. 3,357 FEET NORTH OF THE SOUTH LINE OF SECTION 18, T-27-N, R-4-E AND APPROX. 92 FEET EAST OF THE WEST LINE OF SECTION 18, T-27-N, R-4-E, ALL IN MIAMI COUNTY.

DESIGN DATA	
A.D.T. (1960)	5500 V.P.D.
A.D.T. (1980) PROJECTED	8750 V.P.D.
D.H.V.	800 V.P.H.
DIRECTIONAL DISTRIBUTION	51 %
TRUCKS	20 %
DESIGN SPEED	70 M.P.H.
ACCESS CONTROL	PARTIAL

R/W FOR THIS PROJECT INCLUDES R/W FOR SEPARATE CONTRACT STRUCTURES:-
F-PROJ. No. 875(2)
" " " 875(3)
" " " 875(4)

GROSS LENGTH:- 4.507 MI.
NET LENGTH:- 4.278 MI.
SCALES:-
PLAN {LONG:- 1"=100' TRANS:-1"=100'} PROFILE {HORIZ:-1"=100' VERT:- 1"=10'}
MAX. GRADE 3.47 %



LEGEND
(A) BARRICADE TYPE "A"
(B) BARRICADE TYPE "B"
(C) TYPICAL SIGN STANDARDS
(D) CONSTRUCTION IDENTIFICATION SIGN

MIAMI CO.

APPROVED 11-16-62
Geo. E. Gordon
CHIEF ENGINEER - INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 11-13-62
W.H. Behrens
ENGINEER OF ROAD DESIGN, INDIANA STATE HIGHWAY COMMISSION

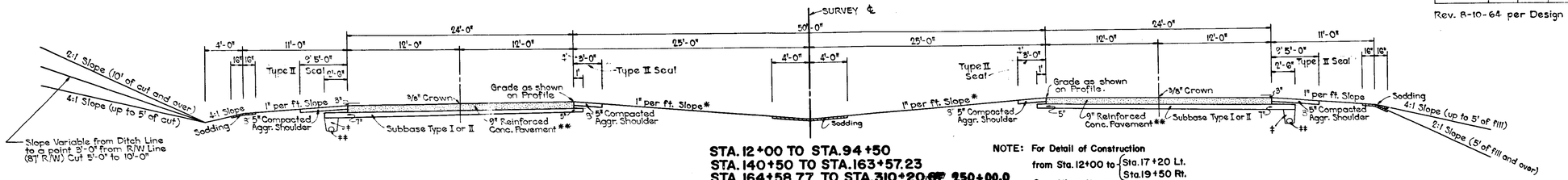
BUREAU OF PUBLIC ROADS
DEPARTMENT OF COMMERCE
APPROVED
[redacted] [redacted]
DIVISION ENGINEER DATE

ROAD FILE:-

STATE HIGHWAY DEPARTMENT OF INDIANA
STANDARD SPECIFICATIONS DATED 1960
TO BE USED WITH THESE PLANS.

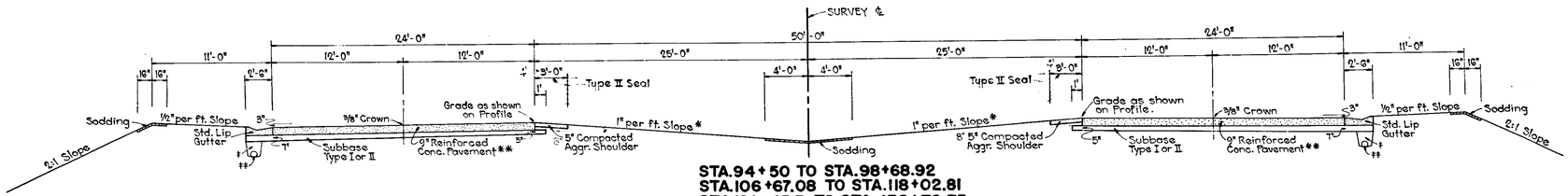
FEDERAL ROAD DIVISION NO.	STATE	F- PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875(6)	1961	3	198

Rev. 8-10-64 per Design Dept.



STA. 12+00 TO STA. 94+50
STA. 140+50 TO STA. 163+57.23
STA. 164+58.77 TO STA. 310+20.67 250+00.0
~~**STA. 313+09.35 TO STA. 485+00**~~

NOTE: For Detail of Construction from Sta. 12+00 to { Sta. 17+20 Lt. / Sta. 19+50 Rt.
See Sheet No. 31



STA. 94+50 TO STA. 98+68.92
STA. 106+67.08 TO STA. 118+02.81
STA. 120+45.5 TO STA. 132+79.75
STA. 134+50.75 TO STA. 140+50

GENERAL NOTES

1. All Curves shall be Superelevated as shown on Sheet No. 69 unless otherwise indicated on plans.

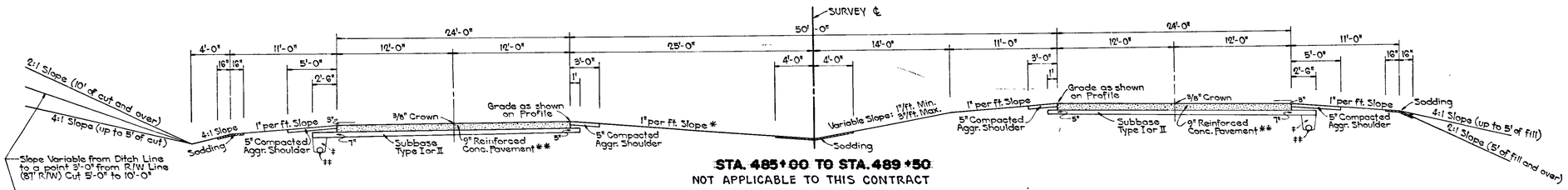
LEGEND

* Variable Slope from 3/4" per ft. Min. to 1 1/4" per ft. Max. where Center Ditch Grades are shown.

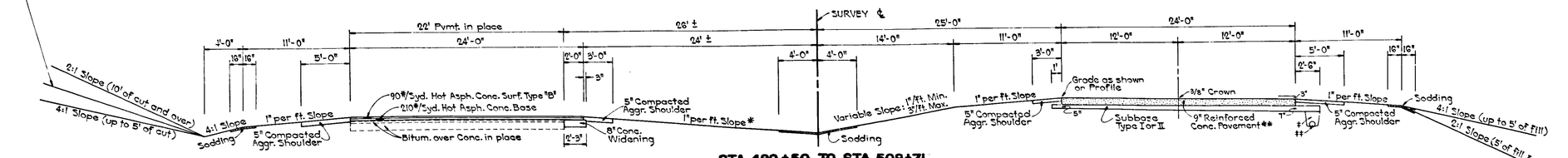
** For Details of 9" Reinforced Conc. Pavement, see Sheet No. 2

‡ Min. Depth of Trench 1'-6". For Trench Details, see Sheet No. 56

‡‡ 6" Group "A" Pipe. For Location of Outlets, see Table on Sheet No. 41



STA. 485+00 TO STA. 489+50
NOT APPLICABLE TO THIS CONTRACT



STA. 489+50 TO STA. 508+71
NOT APPLICABLE TO THIS CONTRACT

TYPICAL CROSS SECTIONS

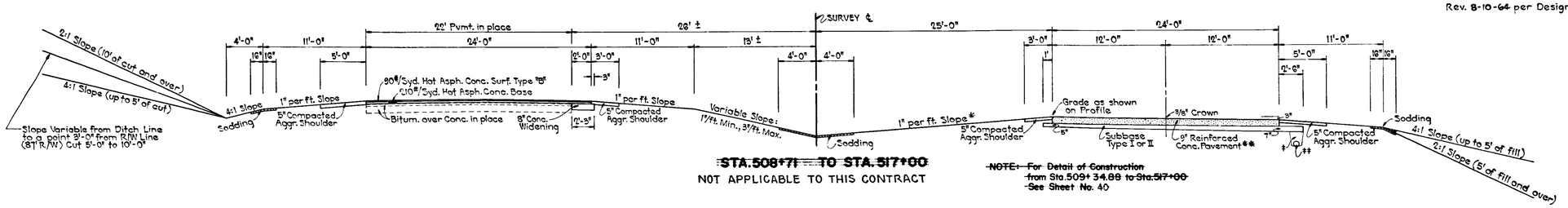
SCALE:- 3/16" = 1'-0"

APPROVED Geo. E. Goodwin
CHIEF ENGINEER INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 11-13-62
ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION

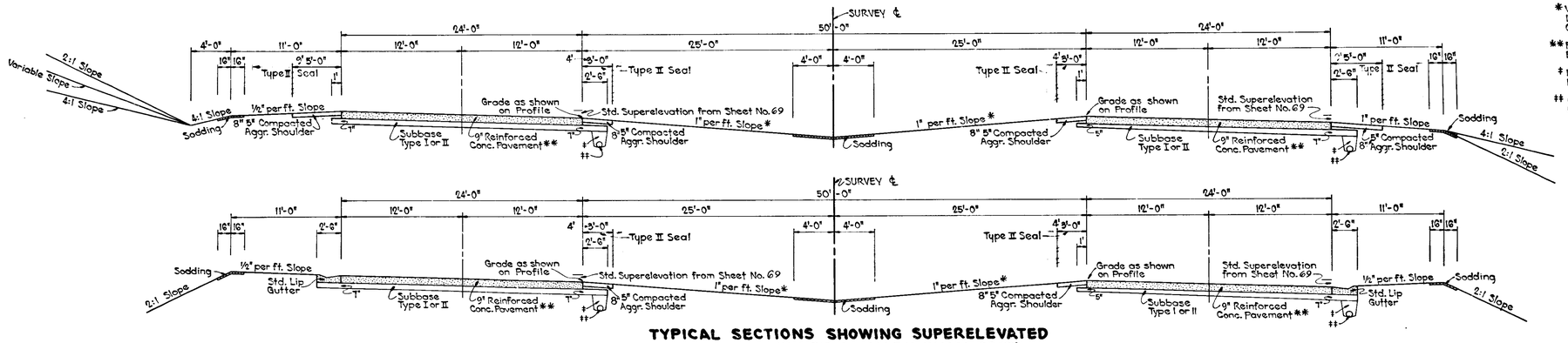
FEDERAL ROAD DIVISION NO	STATE	F. PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	875(8)	1961	4	199

Rev. 8-10-64 per Design Dept.

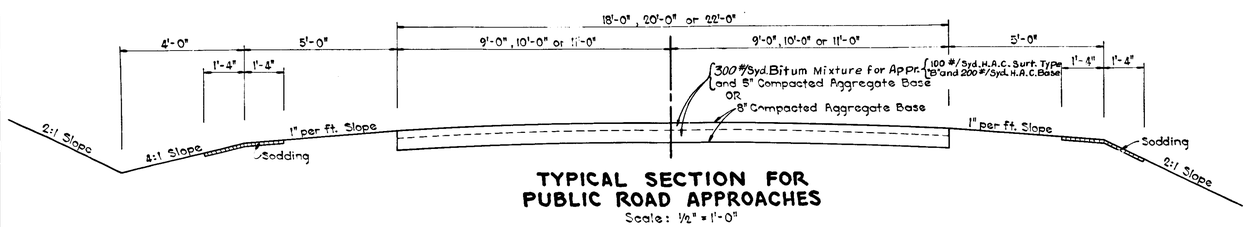


~~STA. 508+71 TO STA. 517+00~~
NOT APPLICABLE TO THIS CONTRACT

~~NOTE: For Detail of Construction from Sta. 509+34.88 to Sta. 517+00 See Sheet No. 40~~

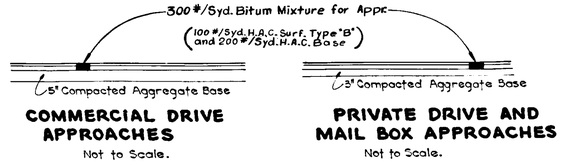


TYPICAL SECTIONS SHOWING SUPERELEVATED CURVES TO THE RT. OF MORE THAN 0°15' (CURVES TO THE LT. REVERSED)



TYPICAL SECTION FOR PUBLIC ROAD APPROACHES
Scale: ½" = 1'-0"

NOTE: For particular information on each approach, see Details on Sheets No. 31, 34, 35, 36, ~~37, 38 & 39~~ and Table on Sheet No. 41



COMMERCIAL DRIVE APPROACHES
Not to Scale.

PRIVATE DRIVE AND MAIL BOX APPROACHES
Not to Scale.

LEGEND

* Variable Slope from 3/8" per ft. Min. to 1¼" per ft. Max. where Center Ditch Grades are shown.

** For Details of 9" Reinforced Conc. Pavement, see Sheet No. 2

‡ Min. Depth of Trench 1'-0". For Trench Details, see Sheet No. 36

‡‡ 8" Group "K" Pipe. For Location of Outlets, see Table on Sheet No. 41

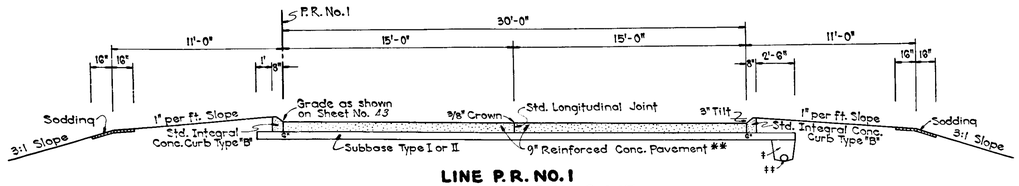
TYPICAL CROSS SECTIONS

SCALE:- 3/16" = 1'-0" (Unless Otherwise Shown).

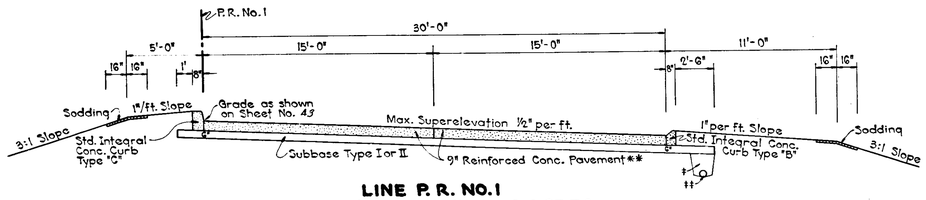
APPROVED Geo. E. Goodwin
CHIEF ENGINEER - INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 11-13-62
W. H. Behme
ENGINEER OF ROAD DESIGN INDIANA STATE HIGHWAY COMMISSION

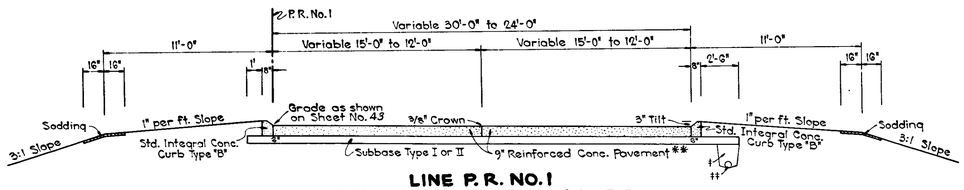
FEDERAL ROAD DIVISION NO	STATE	F-PROJ. NO	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875(8)	1961	5	198



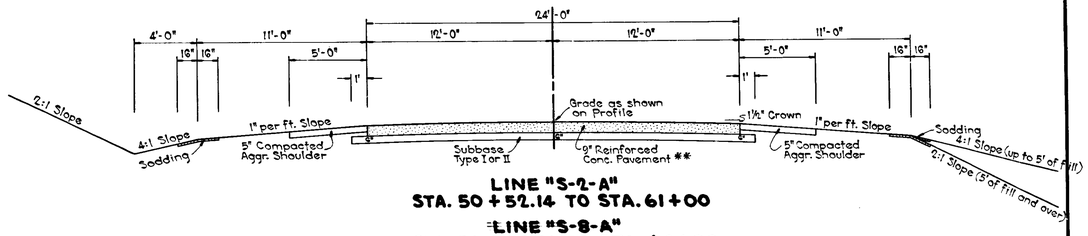
LINE P.R. NO.1
STA. 0+49 TO STA. 2+15



LINE P.R. NO.1
STA. 2+15 TO STA. 4+97.74



LINE P.R. NO.1
STA. 4+97.74 TO STA. 11+45.7



LINE "S-2-A"
STA. 50+52.14 TO STA. 61+00

~~**LINE "S-8-A"**~~
~~**STA. 50+52.14 TO STA. 64+00**~~

LEGEND

** For Details of 9" Reinforced Conc. Pavement, see Sheet No.2

‡ Min. Depth of Trench 1'-6". For Trench Details, see Sheet No. 56

‡‡ 6" Group "K" Pipe. For Location of Outlets, see Table on Sheet No. 41

TYPICAL CROSS SECTIONS

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

APPROVED Geo. E. Voorhis
CHIEF ENGINEER INDIANA STATE HIGHWAY COMMISSION

RECOMMENDED FOR APPROVAL 11-13-62
W.A. Behrns
ENGINEER OF ROAD DESIGN INDIANA STATE HIGHWAY COMMISSION

PUBLIC UTILITIES

TELEPHONE POLES - Bell Telephone Company
20 N. Miami, Peru, Indiana

4" OIL LINE - STA. 52+38
Indiana Farm Bureau Cooperative Association Inc.
Mt. Vernon, Indiana - Phone PO 3-4341

10" GAS LINE - STA. 162+80 Line "A"
- STA. 62+02 Line "S-3-A"
- Along Rt. Line "S-4-A"
Northern Indiana Public Service Company
68 N. Broadway, Peru, Indiana

TELEPHONE LINES - United Telephone Company
Denver, Indiana
- Indiana Bell Telephone Company
20 N. Miami, Peru, Indiana

POWER LINES - Peru Utilities, Peru, Indiana
- Miami-Cass County R.E.M.C.
916 W. Main St., Peru, Indiana
- Public Service Company of Indiana
W. Markland Ave., Kokomo, Indiana
- Northern Indiana Public Service Company
68 N. Broadway, Peru, Indiana

H.R. McVaslin 9-59
R. RENKENBERGER 1-60

R. RENKENBERGER 2-60

8340T INKED

GENERAL NOTES

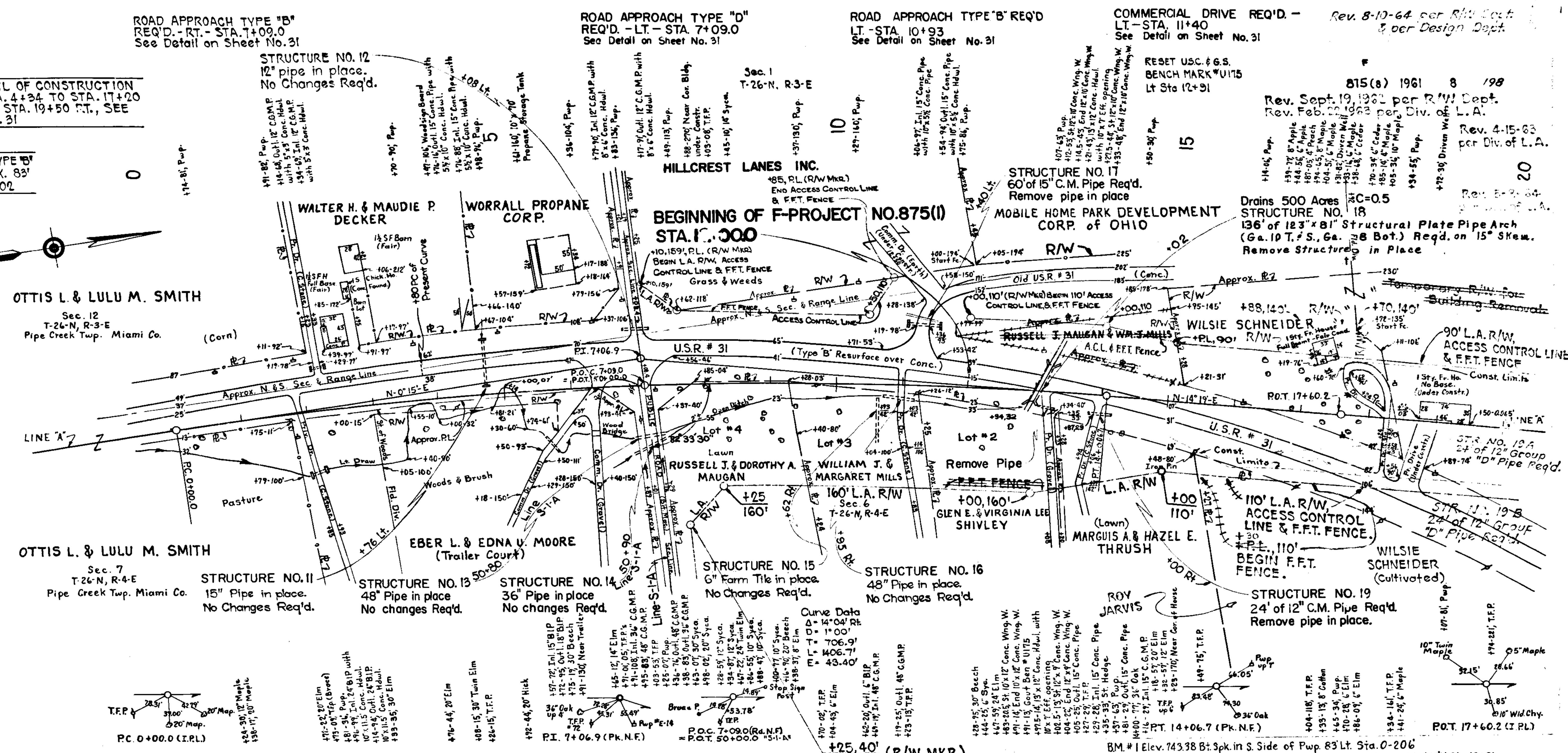
STANDARD CROSS SECTION E-11-1R REVISED-8/11/61
AS SHOWN ON SHEET NO. 2 TO BE USED ON THIS PROJECT.
TYPICAL CROSS SECTIONS AS SHOWN ON SHEETS NO. 3, 4 & 5
TO BE USED ON THIS PROJECT.
State Highway Commission of Indiana Standard Specifications dated 1960 to be used with these plans.
Standards under dates as listed in index on Title Sheet to be used on this project.
Grade line as shown on profile represents top of finished surface at Median edge of pavement.
All ditches of 1% and over shall be sodded except where ditch is in rock cut or where Paved Side Ditch is to be constructed.
All shoulders, cut and fill slopes shall be plain or mulched seeded except where sodding is specified.
Shoulders are to be sodded as shown on Miscellaneous Standard Sheet "B".
Sodding shall be placed along paved side ditch as shown on Miscellaneous Standard Sheet "E".
Excavation quantities as shown on plan and profile sheets include estimated excavation for private and public approaches. (See Table on Sheet No. 41).
Quantities for Pipe Culvert Headwalls are based on using Std. Headwalls for retaining 2:1 slopes and Private Drive Headwalls for retaining 4:1 slopes.
For kinds of Pipe permitted for each size and classification as shown in Structure Notes, See Miscellaneous Standard Sheet "P".
County Roads to be turned back to County beyond R/W markers as shown on plans.
All limited access R/W to be fenced with Chain Link Type Fence (C.L.T. Fence) or Farm Field Type Fence (F.F.T. Fence) as specified in the plans.
Curves of 0°45' and over shall be Superelevated according to Sheet No. 69 unless otherwise noted on plans.
Paper Relocation to be Cross-section by Project Engineer before Construction

12-59 E.L. RANKIN

WTL

FOR DETAIL OF CONSTRUCTION FROM STA. 4+34 TO STA. 17+20 LT. AND TO STA. 19+50 RT., SEE SHEET NO. 31

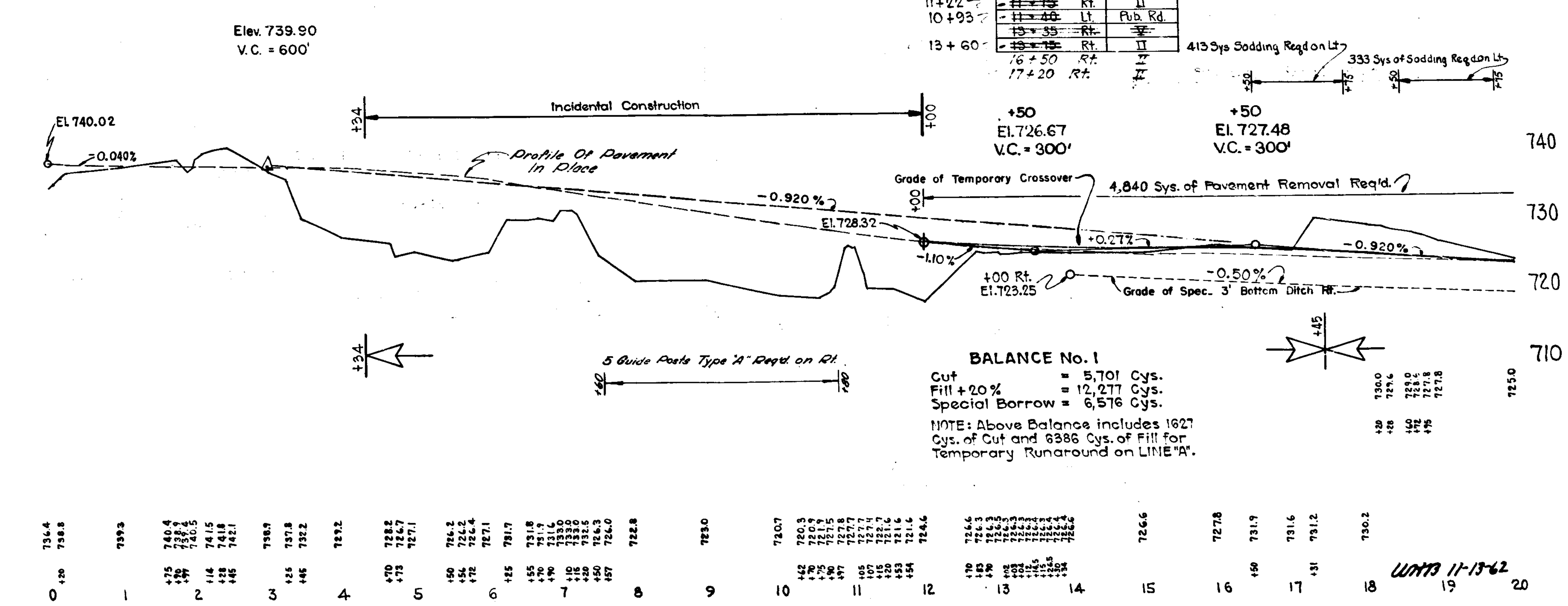
MONUMENT TYPE "B" REQ'D. APPROX. 83' LT. OF STA. 7+02



FOR R/W ON LINE "S-1-A" SEE SHEET NO. 26

ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:

	STATION		CLASS
11+22	~~11+15~~	Rt.	II
10+93	~~11+40~~	Lt.	Pub. Rd.
	~~13+35~~	~~Rt.~~	~~V~~
13+60	~~13+15~~	Rt.	II
	16+50	Rt.	II
	17+20	Rt.	II



BALANCE No. 1
Cut = 5,701 Cys.
Fill + 20% = 12,277 Cys.
Special Borrow = 6,576 Cys.
NOTE: Above Balance includes 1627 Cys. of Cut and 6386 Cys. of Fill for Temporary Runaround on LINE "A".

WMB 11-13-62

F 875 (8) A 8

PUBLIC ROAD CROSSOVER REQ'D.
STA. 23+87.5 – SEE DETAIL ON SHEET NO. 32

ROAD APPROACH REQ'D.
RT. STA. 23+87.5
SEE DETAIL ON SHEET NO. 32

FOR TOPO., PROFILE, AND GRADE ON LINE S-2-A
SEE SHEET NO. 27

PUBLIC ROAD CROSSOVER REQ'D.
STA. 44+53 – SEE DETAIL ON SHEET NO. 31

ROAD APPROACH TYPE "B" REQ'D. – RT. & LT. – STA. 44+53
SEE TABLE ON SHEET NO. 41

Rev. 8-10-64 per R/W Dept & per Design Dept

F 875 (8) 1961 9 198

Drains 20 Ac. Rt. C=0.45
STRUCTURE NO. 20
150' of 30" Group "A" Pipe Req'd.

AUGUSTUS & GLADYS L. PATE

WILSIE SCHNEIDER

STRUCTURE NO. 21
Inlet Type E-7 and
66'of 12" Group "A"
Pipe Req'd.

STRUCTURE NO. 25
Inlet Type E-7 and
74' of 12" Group "A"
Pipe Req'd.

HYACINTH KINLEY

STRUCTURE NO. 27
Inlet Type E-7 and
74'of 12" Group "A" Pipe Req'd.

STRUCTURE NO. 30
54'of 15" Group "D"
Pipe Req'd.

STRUCTURE NO. 32
Inlet Type E7 and
76'of 12" Group "A"
Pipe Req'd on
30° Skew

Curve Data
Δ = 30°30'30" Lt.
D = 0°40'
T = 2244.0'
L = 4576.25'
E = 313.80'

90' L.A. R/W

F.F.T. FENCE

ACCESS CONTROL LINE

110' L.A. R/W

USR #31 (Type 'B' Resurface Over Conc.)

WILSIE SCHNEIDER

ELBERT KELLER (Pasture)

STRUCTURE NO. 22
100'of 15" Group "A"
Pipe Req'd.

Curve Data
Δ = 20°22'30" Lt.
D = 5°12'
T = 197.9
L = 391.8
E = 17.45
Line S-2-A

+PL. 200'
BEGIN L.A. R/W,
ACCESS CONTROL LINE
& F.F.T. FENCE

Drains 920 Ac. C=0.45
STRUCTURE NO. 26
184' of 120" Group "A"
(STR. PLATES: Ga. No. 8 T. & S.,
Ga. No. 7 Bottom) Pipe Req'd. on 15° Skew.
Construct Inlet and Outlet Ditches.

HYACINTH KINLEY

90° L.A.R/W & ACCESS CONTROL LINE

+PL., 200' (R/W MKR)
END L.A. R/W,
ACCESS CONTROL LINE
& F.F.T. FENCE

+PL., 200' (R/W MKR.)
BEGIN L.A. R/W,
ACCESS CONTROL LINE
& F.F.T. FENCE.

87' L.A. R/W & ACCESS CONTROL LINE

F.F.T. FENCE LINE 'A'

GILBERT H. & HYACINTH KINLEY

LABLONDE RESERVE #29
T-27-N, R-4-E
PIPE CREEK TWP. MIAMI CO.

SEC. 6
T-24-N, R-4-E
PIPE CREEK TWP. MIAMI CO.

STRUCTURE NO. 28
Inlet Type E-7 and
72'of 12" Group "A" Pipe Req'd

Drains 12 Ac. C=0.3
STRUCTURE NO. 29
146' of 24" Group "A" Pipe Req'd.
on 15° Skew.
Construct outlet ditch.

STRUCTURE NO. 31
54' of 15" Group "D" Pipe Req'd.

+PL. 375'
END L.A. R/W,
ACCESS CONTROL LINE
& F.F.T. FENCE

STRUCTURE NO. 23
See Sheet No. 27

STRUCTURE NO. 24
See Sheet No. 27

60 Lft. of Paved Side Ditch Type 'A' Req'd on Lt.

For Sodding on Lt., See Preceding Sheet

481 Sys. of Sodding Req'd. on Rt.

533 Sys. of Sodding Req'd. on Rt.

160 Lft. of Paved Side Ditch Type 'A' Req'd on Rt.

220 Sys. of Sodding Req'd. on Lt.

515 Sys. of Sodding Req'd. on Rt.

260 L.F. of Paved Side Ditch Type 'A' Req'd on Lt.

466 Sys. of Sodding Req'd. on Lt.

1068 Sys. of Sodding Req'd on Rt.

122 Sys. of Sodding Req'd. on Lt.

152 Sys. of Sodding Req'd. on Rt.

ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:

STATION	CLASS
23 + 87 Rt	Pub. Rd.
44 + 53 Rt	Pub. Rd.
44 + 53 Lt	Pub. Rd.

Grade of Spec. 3' Bottom Ditch Rt
-0.50% El. 720.00 -2.00%
+00 El. 717.60
+0.46%
+00 El. 718.40
+0.80%
-0.920%
+70 Rt. El. 717.60
+70 Lt. El. 717.00
717.5 +70
717.0 F.L.
Grade of Spec. 3' Bottom Ditch Lt
+30 El. 720.00
-1.60%
Grade of Spec. 3' Bottom Ditch Rt
(Plotted 10' Below Datum)
+00 El. 710.88
-4.38%
+00 El. 706.10
2.10%
+75, F.L. 704.0 703.2
+50 Lt. 703.20
1.584%
+00 Lt. El. 707.16
Grade of Special 3' Bottom Ditch Lt.
+00 El. 704.00
+0.9093%
+00 El. 719.28
+00 El. 715.00
+7.84%
+3.00%
+00 Rt El. 713.00
Grade of Special 3' Bottom Ditch Rt.
+1.000%
+00 Rt. El. 719.00
+00 El. 724.73
-1.48%
+00 El. 724.00
+30 El. 721.40
+50 Ft. 721.40 1722.00
-1.14%
+75 El. 722.00
+1.852%
Grade of Spec. 3' Bottom Ditch Rt.
Plotted 10' Below Datum
+0.9093%
+0.240%
El. 728.98
+1.79%
El. 728.02
Grade of Special 3' Bottom Ditch Lt.
Grade of Spec. 3' Bottom Ditch Rt & Lt.
Grade of Center Ditch
Plotted 10' Above Datum
+0.56%
+00 El. 731.68
+00 El. 732.80
+00
El. 735.99
V.C. = 800'

BALANCE No. 2
Cut = 29,477 Cys.
Fill + 15% = 29,949 Cys.
Special Borrow = 472 Cys.
NOTE: Above Balance includes 387 Cys. of Cut and 531 Cys. of Fill for Temporary Runaround on "S-2-A".

BALANCE NO. 3
CUT = 3,559 Cys.
FILL +20% = 13,901 Cys.
BORROW = 10,342 Cys.
Above Borrow to be obtained from Bal. No. 4

+50 El. 716.44 V.C. = 800'

7 Guide Posts Type "A" Req'd. on Lt.

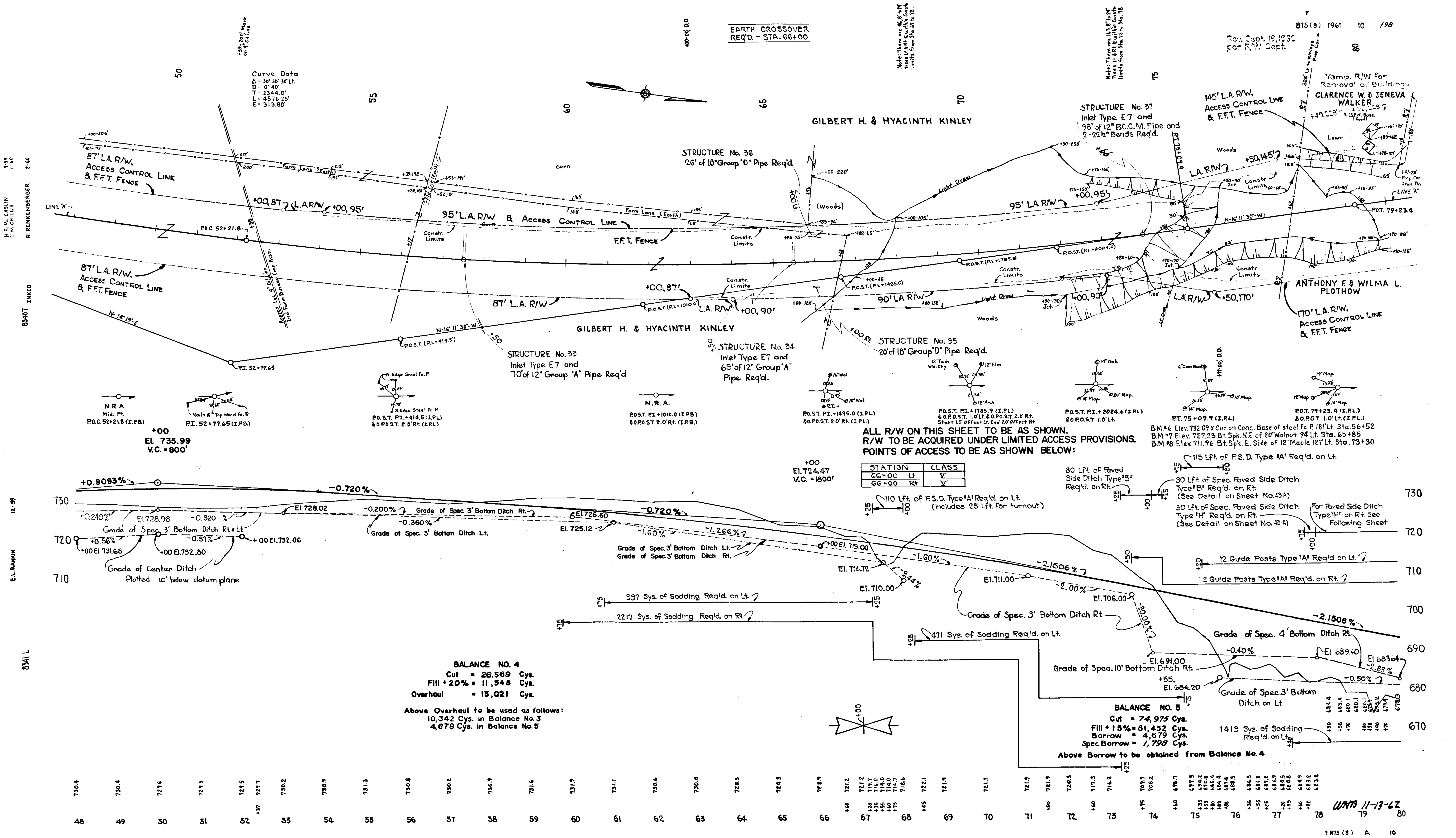
10 Guide Posts Type "A" Req'd. on Rt.

For Pavement Removal on Rt., see Preceding Sheet

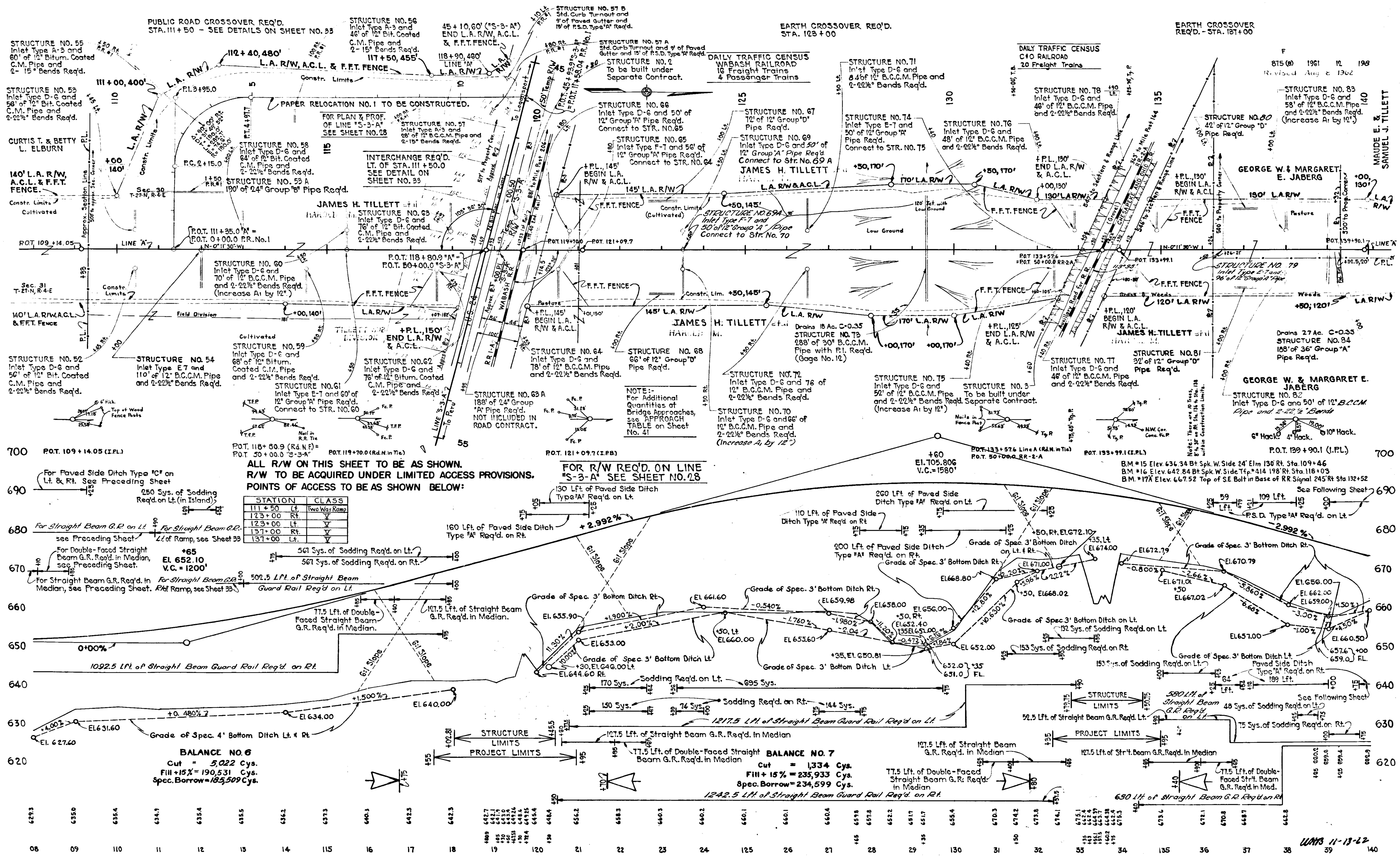
B.M.#2 Elev. 727.57 Bt. Spk. W. Side Pup. 140' Rt. Sta. 20+39
B.M.#3 Elev. 729.40 Bt. Spk. W. Side 22" Maple 134 Rt. Sta. 27+85
B.M.#4 Elev. 723.80 Bt. Spk. W. Side 8" Twin Maple 163 Rt. Sta. 34+55
B.M.#5 Elev. 726.98 Bt. Spk. E. Side 30" Cottonwood 370' Lt. Sta. 44+52

WMB 11-13-62

F 875 (8) A 9


F
875(8) 1961 10 198
Rev. Sept. 19, 1960 for R/W Dept.
H.R. McCASLIN
C.W. CHILDS
R. RENKENBERGER
9-59
1-60
2-60
8340T INKED
E.L.RANKIN 12-59
8341 L
Curve Data
Δ = 30° 30' 30" Lt.
D = 0° 40'
T = 2344.0'
L = 4576.25'
E = 313.80'
+59-200' Mark on 4" Oil Line
+00-00' D.D.
EARTH CROSSOVER REQ'D. - STA. 66+00
Note: There are 46, 8" to 18" trees Lt. & Rt. ℄ within Constr. limits from Sta. 67 to 72.
Note: There are 163, 8" to 24" Trees Lt. & Rt. ℄ within Constr. limits from Sta. 72 to Sta. 78
326' Lt. to Kinley's Prop. Cor.
Temp. R/W for Removal of Buildings
CLARENCE W. & JENEVA WALKER
GILBERT H. & HYACINTH KINLEY
ANTHONY F. & WILMA L. PLOTHOW
LINE "A"
87' L.A. R/W, Access Control Line & F.F.T. Fence
95' L.A. R/W & Access Control Line
F.F.T. Fence
145' L.A. R/W, Access Control Line & F.F.T. Fence
170' L.A. R/W, Access Control Line & F.F.T. Fence
Farm Lane (Earth)
Approx. Loc. 4" Oil Line Ind. Farm Bureau Coop Assn.
Fld. Ent. (Earth)
Constr. Limits
Light Draw
Woods
Lawn
corn
P.O.C. 52+21.8
P.I. 52+77.65
N-14° 19' E
N-16° 11' 30"-W
P.O.S.T. (P.I.+414.5')
P.O.S.T. (P.I.+1010.0')
P.O.S.T. (P.I.+1495.0)
P.O.S.T. (P.I.+1785.9)
P.O.S.T. (P.I.+2024.6)
P.T. 75+09.9
P.O.T. 79+23.4
+00, 87'
+00, 95'
+00, 90'
+50, 145'
+50, 170'
STRUCTURE No. 33 Inlet Type E7 and 70' of 12" Group "A" Pipe Req'd
STRUCTURE No. 34 Inlet Type E7 and 68' of 12" Group "A" Pipe Req'd.
STRUCTURE No. 35 20' of 18" Group "D" Pipe Req'd.
STRUCTURE No. 36 26' of 18" Group "D" Pipe Req'd.
STRUCTURE No. 37 Inlet Type E7 and 98' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd.
N.R.A. Mid. Pt. P.O.C. 52+21.8 (I.P.B.)
P.I. 52+77.65 (I.P.B.)
P.O.S.T. P.I.+414.5 (I.P.L.) & O.P.O.S.T. 2.0' Rt. (I.P.L.)
N.R.A. P.O.S.T. P.I.+1010.0 (I.P.B.) & O.P.O.S.T. 2.0' Rt. (I.P.B.)
P.O.S.T. P.I.+1495.0 (I.P.L.) & O.P.O.S.T. 2.0' Rt. (I.P.L.)
P.O.S.T. P.I.+1785.9 (I.P.L.) & O.P.O.S.T. 1.0' Lt. & O.P.O.S.T. 2.0' Rt. Start 1.0' Offset Lt. End 2.0' Offset Rt.
P.O.S.T. P.I.+2024.6 (I.P.L.) & O.P.O.S.T. 1.0' Lt.
P.T. 75+09.9 (I.P.L.)
P.O.T. 79+23.4 (I.P.L.) & O.P.O.T. 1.0' Lt. (I.P.L.)
ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:
STATION | CLASS
66+00 Lt | V
66+00 Rt | V
B.M.#6 Elev. 732.09 x Cut on Conc. Base of steel Fc. P. 181' Lt. Sta. 56+52
B.M.#7 Elev. 727.23 Bt. Spk. N.E. of 20" Walnut 94' Lt. Sta. 65+85
B.M.#8 Elev. 711.96 Bt. Spk. E. Side of 12" Maple 127' Lt. Sta. 73+30
+00 El. 735.99 V.C. = 800'
+00 El. 724.47 V.C. = 1800'
+0.9093%
-0.720%
-2.1506%
Grade of Spec. 3' Bottom Ditch Rt. & Lt.
Grade of Spec. 3' Bottom Ditch Lt.
Grade of Spec. 3' Bottom Ditch Rt.
Grade of Center Ditch Plotted 10' below datum plane
Grade of Spec. 4' Bottom Ditch Rt.
Grade of Spec. 10' Bottom Ditch Rt.
Grade of Spec. 3' Bottom Ditch on Lt.
El. 728.98
El. 728.02
El. 726.60
El. 725.12
+00 El. 719.00
El. 714.72
El. 710.00
El. 711.00
El. 706.00
El. 691.00
+55, El. 684.20
El. 689.40
El. 683.64
110 Lft. of P.S.D. Type "A" Req'd. on Lt. (includes 25 Lft. for turnout)
80 Lft. of Paved Side Ditch Type "B" Req'd. on Rt.
115 Lft. of P.S.D. Type "A" Req'd. on Lt.
30 Lft. of Spec. Paved Side Ditch Type "B" Req'd. on Rt. (See Detail on Sheet No. 43-A)
30 Lft. of Spec. Paved Side Ditch Type "H" Req'd. on Rt. (See Detail on Sheet No. 43-A)
For Paved Side Ditch Type "H" on Rt. See Following Sheet
12 Guide Posts Type "A" Req'd on Lt.
12 Guide Posts Type "A" Req'd. on Rt.
997 Sys. of Sodding Req'd. on Lt.
2217 Sys. of Sodding Req'd. on Rt.
471 Sys. of Sodding Req'd. on Lt.
1419 Sys. of Sodding Req'd. on Lt.
BALANCE NO. 4
Cut = 26,569 Cys.
Fill + 20% = 11,548 Cys.
Overhaul = 15,021 Cys.
Above Overhaul to be used as follows:
10,342 Cys. in Balance No. 3
4,679 Cys. in Balance No. 5
BALANCE NO. 5
Cut = 74,975 Cys.
Fill + 15% = 81,452 Cys.
Borrow = 4,679 Cys.
Spec. Borrow = 1,798 Cys.
Above Borrow to be obtained from Balance No. 4
48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
WAHB 11-13-62
F 875 (8) A 10

H.R. McCASLIN 9-59
E.L. RANKIN 1-60
R. RENKENBERGER 2-60
8340T INKED



E.L. RANKIN 12-59
8341L

F 875 (8) A 12

R. RENKENBERGER 1-60

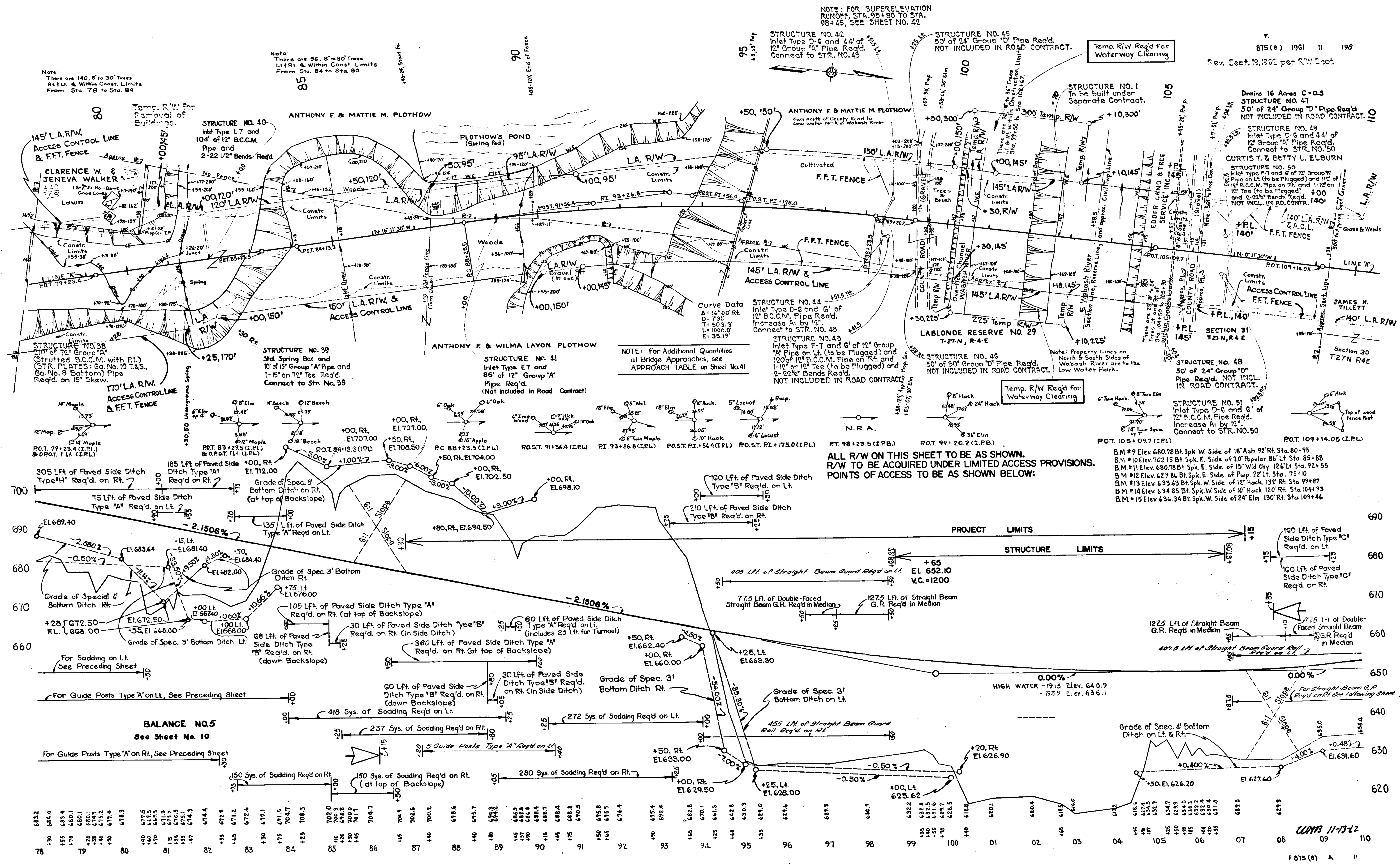
8340T INKED

E.L. RANKIN 12-59

8341L

875(8) 1961 11 198

Rev. Sept. 19, 1962 per R/W Dept.



F 875 (8) A 11

EARTH CROSSOVER REQ'D STA. 152+00

PUBLIC ROAD APPR. TYPE "B" REQ'D. LT. & RT. OF STA. 163+10.8 SEE DETAIL ON SHEET NO. 34

FOR PLAN & PROF. OF LINE "5-4-A" SEE SHEET NO. 27

PUBLIC ROAD CROSSOVER REQ'D. STA. 163+10.8 SEE DETAIL ON SHEET NO. 34

EARTH CROSSOVER REQ'D. STA. 170+00

815(8) 1961 13 198

Revised 12-8-62 per R/W Dept.
Rev. 2-22-63 per Road Design Dept.

STRUCTURE NO. 83 See Preceding Sheet.

STRUCTURE NO. 85 Inlet Type D-6 and 92' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd.

130' L.A. R/W, A.C.L. & F.F.T. FENCE.

MAUDE E. & SAMUEL J. TILLETT

GROVER C. TILLETT

+00,130' L.A. R/W

+50,100'

100' L.A. R/W

Cultivated

Constr. Limits

P.O.T. 139+90.1

LINE "A"

N-0°11'30"-W

+00,100' L.A. R/W

Edge of Muck

+50,90' Muck

90' L.A. R/W

Butter Beans & Muck

+00,90' L.A. R/W

Structure No. 87 as Shown on Plan & Prof. Sht. No. 27

+00,100'

+P.L.,270' (R/W MKR.) END L.A. R/W, A.C.L. & F.F.T. FENCE.

GROVER C. TILLETT

STRUCTURE NO. 91A 54' of 6" Perf. C.M. Pipe Req'd.

L.A. R/W

Approx. Sec. Line

Sec. 30 T-29-N, R-4-E

+120-68'

+120-140'

+120-175'

+91-115'

STRUCTURE NO. 4 TO BE BUILT IN COMBINATION WITH ROAD CONTRACT

+P.L.,220' (R/W MKR.) BEGIN L.A. R/W, A.C.L. & F.F.T. FENCE

JAMES W. HUFF

+00,105' A.C.L. & F.F.T. FENCE

105' L.A. R/W

STRUCTURE NO. 91C 54' of 6" Perf. C.M. Pipe Req'd.

P.C. 168+21.2

P.O.T. 164+31.5

N-0°11'30"-W

STRUCTURE NO. 91D 54' of 6" Perf. C.M. Pipe Req'd.

Δ = 5° 41' 30" Lt.
D = 0° 20'
R = 860.08
T = 1397.5
E = 21.98

+50 Lt.

+70 Rt.

+66 Rt.

+50 Rt.

+100 Rt.

+85 Rt.

+85 Lt.

+100 Lt.

+120 Rt.

+120 Lt.

+135-120'

+82-180'

+27.17.5

+147-177.5'

+138-175'

+100 Rt.

+100 Lt.

+100 Rt.

+100 Lt.

Constr. Limits

Weeds

Grass & Weeds

L.A. R/W

+50,120' L.A. R/W, A.C.L. & F.F.T. FENCE.

Drains 27 Ac. C=0.35

STRUCTURE NO. 84 See Preceding Sheet

STRUCTURE NO. 82 See Preceding Sheet.

STRUCTURE NO. 86 Inlet Type D-6 and 28' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd.

GEORGE W. & MARGARET E. JABERG

+00,90' L.A. R/W

+50,120' L.A. R/W

120' L.A. R/W

STRUCTURE NO. 87 Inlet Type E7 and 88' of 12" Group "A" Pipe Req'd. on 45° Skew

+00,120' L.A. R/W

+00,95'

95' L.A. R/W

STRUCTURE NO. 88 Inlet Type E7 and 68' of 12" Group "A" Pipe Req'd.

+00,95' L.A. R/W

STRUCTURE NO. 91B 54' of 6" Perf. C.M. Pipe Req'd.

GEORGE W. & MARGARET E. JABERG

STRUCTURE NO. 89 Inlet Type E7 and 70' of 12" Group "A" Pipe Req'd.

+00,100' L.A. R/W

Drains 29 Ac. C=0.3

STRUCTURE NO. 91 62' of 30" Group "D" Pipe Req'd.

N.I.P.S. Co.

P.O.T. 163+10.8 P.O.T. 50+00.0 5-4-A

+P.L.,200' (R/W MKR.) END L.A. R/W, A.C.L. & F.F.T. FE.

STRUCTURE NO. 90 230' of 8" Sewer Pipe Req'd. Remove F.T. in place. Connect to F.T. in place.

N.E. Cor. #2 Conc. Re. Post

Top F. Post

P.O.T. 163+10.8 (I.P.L.) =P.O.T. 50+00.0 5-4-A

Approx. Sec. Line

16.93 ft Approx. ¼ Sec. Corner

PRAIRIE DITCH

Approx. Location of 18" Conc. Tile

Sec. 19 T-29-N, R-4-E

STRUCTURE NO. 92 22' of 36" Group "D" Pipe Req'd.

STRUCTURE NO. 93 22' of 36" Group "D" Pipe Req'd.

STRUCTURE NO. 92 Inlet Type E7 and 70' of 12" Group "A" Pipe Req'd.

+P.L.,200' (R/W MKR.) BEGIN L.A. R/W, A.C.L. & F.F.T. FENCE.

NOTE: For Additional Quantities for Bridge Approaches, See APPROACH TABLE on Sheet No. 41.

(N.R.A.)

(N.R.A.)

+12'-W Outlet 18" Conc. Tile

+111-115' S.W. Conc. Cut-R +92-100' Fwp.

Note: Legal name of ditch is EDWAROS DITCH

P.O.T. 164+31.5 (I.P.L.)

P.C. 168+21.2 (I.P.B.)

B.M. #18A Elev. 646.95 Bt. Spk. in 24" Maple 189' Rt. Sta. 142+24

B.M. #19A Elev. 639.87 Cut in S.E. Cor. Conc. Abutment 157' Lt. Sta. 162+98

ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:

STATION	CLASS
163+10.8 Rt	Pub. Rd.
163+10.8 Lt	Pub. Rd.
~~165+00 Rt~~	~~X~~
~~154+00 Lt.~~	~~X~~

HIGH WATER ELEV. 637.9

170+00

375 Sys. of Sodding Req'd. on Lt.

84 Sys. of Sodding Req'd. on Rt.

160 Sys. of Sodding Req'd. on Rt.

55 Lft. of Straight Beam G.R. Req'd on Lt.

77.5 Lft. of Double-Faced Straight Beam G.R. Req'd in Median

30 Lft. of Straight Beam G.R. Req'd in Median

127.5 Lft. of Straight Beam G.R. Req'd in Median

Note: There are 25.6' ± of 18" Conc. Tile Pipe Culvert within these limits.

6" Hack 13.16 04.90' 4.80' 4" Hack 18" Hack.

P.O.T. 139+90.1 (I.P.L.)

For Paved Side Ditch Type "A" Req'd. on Lt., See Preceding Sheet

235' Lft. of Paved Side Ditch Type "A" Req'd. on Lt.

For P.S.D. Type "A" on Rt., See Preceding Sheet

160 Lft. of Paved Side Ditch Type "A" Req'd. on Rt.

+125

+100

+75

+50

+25

+00

-25

-50

-75

-100

-125

-2.992 %

-2.992 %

+92.6 El. 642.00 V.C.=600'

Grade of Spec. 3' Bottom Ditch Rt.

El. 662.00

+1.00%

+4.50%

El. 665.00

El. 666.00

-3.00%

+1.50%

+4.50%

El. 660.50

Grade of Spec. 3' Bottom Ditch Lt. & Rt.

-1.00%

El. 656.00

El. 657.00

659.0 +00 657.6 El.

Grade of Spec. 3' Bottom Ditch Lt.

For Sodding on Lt., See Preceding Sheet

For Sodding on Rt., See Preceding Sheet

For Straight Beam G.R. on Lt. & Rt. See Preceding Sheet

BALANCE NO. 8

Cut	= 47,051	Cys.
Fill +15%	= 52,154	Cys.
Spec. Borrow	= 5,103	Cys.

+00

BALANCE NO. 9

Cut	= 22,412	Cys.
Fill +20% (Waterway Exc.)	= 23,156	Cys.
	= 875	Cys.
Grade "B" Spec. B.	= 2,031	Cys.
Special Borrow	= 744	Cys.

Cut Includes 1679 Cys. of Unsuitable Material to be used in Embankment Outside Pavement

El. 640.44

Grade of Center Ditch 0.00%

-0.260 %

El. 639.40

Nick Profile on ℄

El. 640.44

-0.220 %

+25 El. 640.44

-0.838%

El. 639.40

+0.260 %

El. 640.44

+0.200 %

PAVING EXCEPTION

+57.05

+58.77

+00,Lt. El. 639.00

+50 El. 639.88

+1.50 %

+00,Lt., El. 636.00

-0.50% Grade of Spec. 3' Bottom Ditch on Lt.

+00,Rt. El. 640.00

-1.00 %

Grade of Spec. 3' Bottom Ditch on Rt. (Plotted 10' below Datum)

+00,Rt., El. 634.00

+60,Lt., El. 632.20

+85 Lt. El. 631.10

+2.00 %

+35 Rt. El. 632.1

-0.40 %

+00,Rt. El. 632.00

Grade of Center Ditch 0.00%

El. 639.40

+0.260 % El. 640.44

Grade of Spec. 6' Bottom Ditch Rt. & Lt.

+00 Rt. & Lt. El. 635.40

Grade of Spec. 6' Bottom Ditch Rt. & Lt.

6628 6602 6576 6549 6522 6495 6468 6441 6415 6388 6362 6335 6309 6282 6256 6229 6203 6176 6150 6123 6097 6070 6044 6017 5991 5964 5938 5911 5885 5858 5832 5805 5779 5752 5726 5699 5673 5646 5620 5593 5567 5540 5514

38 39 +65 +25 140 41 42 43 44 145 46 47 48 49 150 51 52 53 54 55 56 57 58 59 160 61 62 63 64 165 66 67 68 69 170

WMB 11-13-62

F875(8) A 15

H.R. Mc. CASLIN E.L. RANKIN 9-59 1-60

R. RENKENBERGER 2-60

8340T INKED

E.L. RANKIN 12-59

8341 L

JAMES W. HUFF

TEMP. R/W

360' TEMPORARY R/W

+00,360'

Curve Data
Δ= 5°-47'-30" Lt.
D= 0°-20'
T= 869.5'
L= 1737.5'
E= 21.78

NOTE: Temporary R/W Req'd. for Disposal of 16,556 Cys. of Peat.

Sec. 19
T-27-N, R-4-E

Note: There are 18.8 Ft.± 36" Trees Rt. & Lt. of & within Const. Limits Sta. 184 to Sta. 185.

Note: There are 38.2 Ft.± 36" Trees Rt. & Lt. of & within Const. Limits Sta. 188 to Sta. 190.

+00 to 4" Sweeping Spring
+25 to 30" Sweeping Spring

Drains 92 Ac. C=0.45
STRUCTURE NO. 97
310' of 60" Group "B" (Strutted B.C.C.M. with P.I.)
(STR. PLATES: Ga. No. 12 T. & S., Ga. No. 10 Bot.)
Pipe Req'd. on 45° Skew.

STRUCTURE NO. 98
Inlet Type E-7 and
98' of 12" B.C.C.M. Pipe and
2-22½° Bends Req'd.

ALBERT H. COLE & HENRY M. & JOANNA C. LAMBERTON

160' L.A. R/W

140' L.A. R/W
ALBERT H. COLE & HENRY M. & JOANNA C. LAMBERTON

120' L.A. R/W

105' L.A. R/W
A.C.L. & F.F.T. FENCE

STRUCTURE NO. 93 — See Preceding Sheet.

STRUCTURE NO. 94
Inlet Type E7 and
72' of 12" Group "A"
Pipe Req'd.

STRUCTURE NO. 95
Inlet Type E7 and
70' of 12" Group "A"
Pipe Req'd.

STRUCTURE NO. 96
Inlet Type E7 and
90' of 12" B.C.C.M. Pipe and
2-22½° Bends Req'd.

P.C. 168+21.2 (I.P.B.)
P.O.S.T. 172+96.5 (I.P.B.)
P.I. 176+90.7 (I.P.B.)
P.T. 185+58.2 (I.P.B.)
P.O.T. 190+05.7 (I.P.L.)
P.O.T. 192+78.4 (I.P.L.)
P.O.T. 195+22.1 (I.P.L.)
P.O.T. 197+51.4 (I.P.L.)
P.O.T. 199+54.0 (I.P.L.)

N. R. A.

ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.

502 Lft. of Paved Side Ditch Type "A" Req'd. on Lt. at top of Backslope (includes 712' down Backslopes at 187+70 and 192+00)

720 Lft. of Paved Side Ditch Type "A" Req'd. on Lt.

80 Lft. of P.S.D. Type "A" Req'd. on Lt. (down Backslope)

365 Lft. of Paved Side Ditch Type "H" Req'd. on Lt.

For P.S.D. Type "A" on Lt., See Following Sheet

120 Lft. of Paved Side Ditch Type "H" Req'd. on Lt.

665 Sys. of Sodding Req'd. on Lt.

1106 Sys. of Sodding Req'd. on Rt.

385 Lft. of Paved Side Ditch Type "A" Req'd. on Rt.

730 Lft. of Guard Rail Req'd on Lt.

980 Lft. of Guard Rail Req'd on Rt.

1055 Lft. of Paved Side Ditch Type "A" Req'd. on Rt.

155 Lft. of Paved Side Ditch Type "H" Req'd. on Rt.

705 Lft. of Guard Rail Req'd on Rt.

630 Lft. of Guard Rail Req'd on Rt.

84 Sys. of Sodding Req'd. on Lt.

+3.47 %

+50 El. 642.00 V.C. = 800'

Grade of Center Ditch
+0.260 %
El. 640.44
-0.260 %
El. 639.40
0.00 %
+0.500 %
El. 640.40
+0.200 %
Grade of Spec. 6' Bottom Ditch on Lt. & Rt.

Unstable Material (Peat & Marl) to be removed.

Grade of Spec. 6' Bottom Ditch on Lt.
Grade of Spec. 6' Bottom Ditch on Rt.
Grade of Spec. 6' Bottom Ditch on Lt.
Grade of Spec. 6' Bottom Ditch on Rt.

Grade of Spec. 3' Bottom Ditch on Lt. (at top of backslope).

Grade of Spec. 3' Bottom Ditch on Rt.

Grade of Spec. 3' Bot. Ditch on Lt.

Grade of P.S.D. on Rt.

Grade of Spec. 4' Bottom Ditch Lt.

Grade of Spec. 4' Bottom Ditch on Rt.

Grade of Spec. 3' Bottom Ditch on Rt.

Grade of Spec. 3' Bottom Ditch on Rt.

BALANCE NO. 10
PEAT EXCAVATION = 16,556 Cys.
Cut = 23,380 Cys.
Fill + 20% = 35,216 Cys.
Borrow = 11,836 Cys.
Peat Backfill + 5% = 29,589 Cys.
Grade "B" Spec. Borrow = 29,589 Cys.
Above Borrow to be obtaind as follows: 11,492 Cys. from Balance No. 11 – 344 Cys. from Balance No. 12.

BALANCE NO. 11
Cut = 114,182 Cys.
Fill = 102,690 Cys.
Overhaul = 11,492 Cys.
Overhaul to be used in Balance No. 10

Perm. O Elev. 641.38 Top of Iron Pin P.O.S.T. @ Sta. 172+96.5 on Semi-Tang.
Temp. B.M. #20 Elev. 639.15 Top of Iron Pin P.I. 21.9' Rt. Sta. 176+89.9
B.M. #21 'A' Elev. 644.37 Bt. Spk. in 12" Wal. 203' Rt. Sta. 189+44
B.M. #22 'A' Elev. 675.48 Bt. Spk. in 8" Twin Ash 140' Rt. Sta. 193+34
B.M. #23 'A' Elev. 729.93 Bt. Spk. in 6" Wld. Chy. 106' Rt. Sta. 198+91

Note: There are 102.5 Ft.± 36" Trees Rt. & Lt. of & within Const. Limits Sta. 190 to Sta. 196

6" Hack 20.89' 14.16 12" Oak
12" Hick 20.58' 20.28 14.23 18" Hack
4" Map.
4" Elm 13.25
5" Twin Hem. 20.67' 20.48 14" Syc.
12" Liv. wood 15.85
4" Maple 20.60' 21.50
6" Cotton wood 23.26' 17.45
4" Maple 19.46
4" Beech 17.45
5" Hick.
11" 45 Underground

E. L. Rankin 12-59

H.R. McCaslin 7-32
E.L. Rankin 1-40
R. Renkenberger 2-40

8341 L
8345 L

ADAPT
8342 T INKED

UNITS 11-17-62

F 815(8) A 14

F
875(8) 1961 15 198

MONUMENT TYPE "B" REQ'D. APPROX. 97' LT. OF STA. 218+53

PUBLIC ROAD CROSSOVER REQ'D STA. 216+46.7 DETAILS ON SHEET NO. 34

ROAD APPROACH TYPE "B" REQ'D. – RT. & LT. – STA. 216+46.7 SEE DETAIL ON SHEET NO. 34

Note: There are No. 6"x6"x7'mns within Centr. Delta No. 121-A from Sta. 209+00 to Sta. 218+00

H.R. McCASLIN 9-59
C.W. CHILDS 1-60
R. RENKENBERGER 2-60
8542 T INNED
8545 L
B.L. Rankin 12-59

HARVEY W. & MINNIE E. BIRD

ALBERT H. COLE & HENRY M. & JOANNA C. LAMBERTON

CLARENCE R. & LUCILLE E. McQUISTON

C.R. ROAD

Sec. 24 T-27-N, R-3-E PERU TWP. MIAMI CO.

Sec. 13 T-27-N, R-3-E PERU TWP MIAMI CO.

Sec. 19 T-27-N, R-4-E PERU TWP. MIAMI

Woods & Small Trees & Brush

Woods & Small Brush

Cultivated

Pasture

Lawn

Approx. Sec. & Range Line

Constr. Limits

Water Pocket

Farm Lane (Gravel)

LINE "A"

LINE "S-5-A"

P.O.B. 199+54.0

P.O.T. 204+59.2

P.O.S.T. 209+85.0

P.O.C. 214+46.7
P.O.T. 50+00.0

P.O.S.T. 214+31.2

P.I. 216+44.8

P.O.S.T. PI. + 711.4

P.O.T. 45+00.0

P.O.T. 55+00.0

P.O.C. 216+46.7 (T.P.L.)
+ P.O.T. 50+00.0 "S-5-A"

P.O.S.T. 209+85.0 (T.P.L.)

P.O.S.T. 214+31.2 (T.P.L.)

P.I. 216+44.8 (T.P.L.)

P.O.T. 45+00.0 (T.P.L.) "S-5-A"

P.O.T. 55+00.0 (T.P.L.) "S-5-A"

P.O.S.T. PI. + 711.4 (T.P.L.)

P.T. 225+43.9 (T.P.B.)

P.O.T. 199+54.0 (T.P.L.)

P.C. 207+43.9 (T.P.B.)

N.R.A.

STRUCTURE NO. 99
Inlet Type E7 and 68' of 12" Group "A" Pipe Req'd.

STRUCTURE NO. 100
180' of 24" Group "A" Pipe Req'd. on 15° Skew.
Construct inlet and outlet ditches

STRUCTURE NO. 101
Inlet Type E7 and 94' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd.

STRUCTURE NO. 102
206' of 24" Group "A" Pipe Req'd. on 30° Skew.
Construct inlet and outlet ditches

STRUCTURE NO. 103
24' of 12" C.M. Pipe Req'd.

STRUCTURE NO. 104
Drains 4 Ac. C=0.3
STRUCTURE NO. 104
52' of 15" Group "D" Pipe Req'd.
Remove pipe in place.

STRUCTURE NO. 105
44' of 15" Group "D" Pipe Req'd

STRUCTURE NO. 106
20' of 12" C.M. Pipe Req'd.

STRUCTURE NO. 107
Inlet Type E7 and 72' of 12" Group "A" Pipe Req'd.

STRUCTURE NO. 108
Inlet Type E7 and 72' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd.

+RL., 165' (R/W MKR)
END L.A.R/W, A.C.L. & F.F.T. FENCE

+RL., 165' (R/W MKR)
BEGIN L.A.R/W, A.C.L. & F.F.T. FENCE

+RL., 165' (R/W MKR)
END L.A.R/W, A.C.L. & F.F.T. FENCE

+RL., 165' (R/W MKR)
BEGIN L.A.R/W, A.C.L. & F.F.T. FENCE

+00, 110' 110' L.A.R/W

+00, 125' 125' L.A.R/W

+50, 125'

+50, 95' 95' L.A.R/W

+00, 100' 100' L.A.R/W

+00, 120' 120' L.A.R/W, A.C.L. & F.F.T. FENCE

+00, 87' 87' L.A.R/W, A.C.L. & F.F.T. FENCE

+50, 87' 87' L.A.R/W

+00, 95'

+40, 95'

+20, 140'

+00, 87' 87' L.A.R/W, A.C.L. & F.F.T. FENCE

+00, 95' 95' L.A.R/W

+50, 87' L.A.R/W

+00, 100'

+00, 125'

On Rt from Sta. 204+00 to Sta. 209+00 Drains 6 Ac. C=0.5

On Rt from Sta. 209+00 to Sta. 216+45 Drains 8 Ac. C=0.45

Curve Data
Δ = 6°00' Rt
D = 60°
T = 900.9'
L = 1800.0'
E = 239.70'

SEC. 19 T-27-N, R-4-E PERU TWP. MIAMI

+00, 250' 250' Temp. R/W

Temp. R/W Req'd For Constructing Channel Change - 3' Bottom.
Earth Excavated From New Channel is to be used For Back Filling old Channel. Excess Excavation Approx 1500 Cys is to be used in Road Embankment

ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:

STATION	CLASS
209+50 Lt	Pvt
216+46.7 Rt	Pub. Rd.
216+46.7 Lt	Pub. Rd.

+25 El. 772.99 V.C. = 1300'

280 Lft. of Paved Side Ditch Type "A" Req'd. on Lt.

For Paved Side Ditch Type "A" on Rt., See Preceding Sheet

For Guard Rail Req'd on Lt, See Preceding Sheet.

315 Lft. of P.S.D. Type "A" Req'd. on Lt. (Includes 50 Lft. for turnout)

470 Lft. of Paved Side Ditch Type "A" Req'd. on Lt.

920 Lft. of Paved Side Ditch Type "A" Req'd. on Rt.

3 Guide Posts Type "A" Req'd on Lt.

3 Guide Posts Type "A" Req'd on Lt.

423 Lft. of P.S.D. Type "A" Req'd. on Lt.

765 Sys. of Sodding Req'd on Lt.

462 Sys. of Sodding on Lt.

325 Sys. of Sodding Req'd on Rt.

618 Sys. of Sodding Req'd on Rt.

4 Guide Posts Type "A" Req'd on Rt.

For P.S.D. Type "A" on Lt., See Following Sheet

For P.S.D. Type "A" on Rt., See Following Sheet

For Guide Posts Type "A" on Lt. see Following Sheet

+3.47%
-0.36%
+1.00%
+1.50%
+5.00%
+4.58%
+14.18%
+4.64%
-15.88%
-16.88%
+4.00%
-16.88%
+15.80%
-3.80%
-3.50%
-4.76%

+00, Lt., El. 693.01
Grade of Spec. 4' Bottom Ditch on Lt. (Plotted 20' above Datum)

+50, Lt. El. 685.01

+50, Lt. & Rt. El. 739.50

+15, Rt., El. 728.00
Grade of Spec. 3' Bottom Ditch on Rt.

+05 El.: 727.50
712.20

Grade of Spec. 3' Bottom Ditch on Lt.

+35.88

+90, Lt. El. 712.00

+75

+00, Lt., El. 755.00

+00, Lt. El. 750.00

+00, Lt. El. 761.00

+00, Rt., El. 762.60

+00, Rt., El. 759.60

+00, Rt. El. 755.02

+50, Rt. El. 747.93

+30, Rt., El. 748.60

+10, Lt., El. 792.00

+55 F.L. 792.20
740.80

+00, Rt., El. 740.97

+00, Lt., El. 769.40

+00, Lt., El. 766.60

+00, Lt., El. 761.00

+50, Rt. El. 766.40
Grade of Spec. 3' Bottom Ditch on Rt. (Plotted 10' below Datum)

+00, Rt., El. 768.68

Grade of Spec. 3' Bottom Ditch on Lt.

Grade of Spec. 3' Bottom Ditch on Rt. (Plotted 10' below Datum)

LINE "S-5-A" STA. 216+46.7

+25 El. 768.80 V.C. = 50'
+50, 765.15
-1.80%
+25 El. 767.34
+0.08%
+25 El. 768.84
-2.38%
+25 El. 768.71
-1.12%

40 Sys. of Sodding Req'd. on Lt.
40 Sys. of Sodding Req'd. on Rt.

760.1 768.9 770.3 770.4 769.0 767.4 767.4 766.2 765.0 764.7 764.2 763.0 762.5 760.4 756.9

45 46 47 48 +94 49 50 51 52 53 54 55

BALANCE NO. 12
Cut = 35,186 Cys.
Fill + 20% = 16,313 Cys.
Overhaul = 18,873 Cys.
Added Haul = 344 Units.
Above Overhaul to be used as follows:
344 Cys. in Balance No. 10 and
18,529 Cys. in Balance No. 13

BALANCE NO. 13
See Sheet No. 16

B.M. #23 A Elev. 729.93 Bt. Spk. in 6" Wld. Chy. 106' Rt. Sta. 198+91
B.M. #24 A Elev. 751.55 Bt. Spk. in 6" Quad. Oak 118' Rt. Sta. 203+92
B.M. #25 A Elev. 755.03 Bt. Spk. in 12" Oak 92' Rt. Sta. 210+63
Temp. B.M. #26 Elev. 768.10 Bt. Spk. in 40" Oak 58' Rt. Sta. 214+16
B.M. #27 A Elev. 770.00 Bt. Spk. in 30" Oak 190' Lt. Sta. 216+28

P.O.T. 199+54.0 (T.P.L.)
6" Catalpa wood 93.70
6" Beech 97.65
3" Hick. 97.65
Note: 1. There are 24-6"x6" Mons within constr. limits. 2. There are 5-6"x6" Mons within constr. limits. Sta. 202 within constr. limits.

P.O.T. 204+59.2 (T.P.L.)
6" Oak 102.60
6" Oak 102.60
10" Wal. 98.58
6" Hick. 98.58

P.O.S.T. 209+85.0 (T.P.L.)
6" Sass. 99.25
6" Sass. 99.38
6" Sass.

P.O.S.T. 214+31.2 (T.P.L.)
6" Elm 92.85
4" Oak 91.50
13.30° T.F.P.

P.I. 216+44.8 (T.P.L.)

P.O.T. 45+00.0 (T.P.L.) "S-5-A"
T.F.P. 94.40
20.55
46.41
Wood Fc. P.
Top Wood Fc. P.
T.F.P. 92.19

P.O.T. 55+00.0 (T.P.L.) "S-5-A"
6" Oak 94.40
6" Elm 94.40
6" Elm 92.85

P.O.S.T. PI. + 711.4 (T.P.L.)
Perp.
Top Fc. P. 91.49 92.37
Nail & Steel Fc. P. 92.25

P.T. 225+43.9 (T.P.B.)
Nails & Steel Fc. P. 89.55 89.45 89.43

WITH 11-13-62

F 875(8) A 15

F
875 (8) 1961 16 198

END F-PROJ. NO. 875 (8) STA. 250+00.0

On Lt From Sta. 223+50 To Sta. 235+85
Drain 26 Acres C-0.4
STRUCTURE NO. 110
216' of 30" Group "A" Pipe Req'd. on 30° Skew
Construct Inlet and Outlet Ditches

STRUCTURE NO. 109
14' of 6" Drain Tile Req'd.
Remove F.T. in place.
Connect to F.T. in place.

Note: There are 32, 8" to 30" Trees Lt. & Rt. & Within Const. Limits Sta. 232+21 to Sta. 235+42

CLARENCE R. & LUCILLE McQUISTON

STRUCTURE NO. 108
See Preceding Sheet

STRUCTURE NO. 112
See Sheet No. 26

PUBLIC ROAD CROSSOVER
REQ'D. - STA. 235+63.6
DETAIL ON SHEET NO. 25

PUBLIC ROAD APPROACH TYPE "B"
REQ'D - RT. & LT. - STA. 235+63.6
DETAIL ON SHEET NO. 25

NOTE: For Plan & Prof. of Line "S-6-A" see Sheet No. 26

STRUCTURE NO. 111 A
50' of 15" Group "D" Pipe Req'd. Remove pipes in place.

STRUCTURE NO. 111
Inlet Type E-7 and 80' of 12" B.C.C.M. Pipe and 2-22½° Bends Req'd. on 15° Skew.

WILLIAM R. & MARY S. MYERS

Sec. 13
T-27-N, R-3-E
Peru Twp.

Sec. 18
T-27-N, R-4-E
Jefferson Twp.

STRUCTURE NO. 113
Inlet Type E-7 and 70' of 12" Group "A" Pipe Req'd.

STRUCTURE NO. 115
Inlet Type E-7 and 80' of 12" B.C.C.M. Pipe & 2-22½° Bends Req'd.

On Lt From Sta. 240+50 To Sta. 251+50
Drains 88 Acres C-0.35
STRUCTURE NO. 114
250' of 48" Group "A" Pipe Req'd. on 45° Skew.
Construct Inlet and Outlet Ditches

RAYMOND E. & MARGARET A. SNYDER

WILLIAM R. & MARY S. MYERS

+00.35' (R/W MKR.) "S-6-A" END L.A.R/W, A.C.L. & F.F.T. FENCE

+25.40' (R/W MKR.) "S-6-A" END L.A.R/W, A.C.L. & F.F.T. FENCE

+00.45' (R/W MKR.) "S-6-A" BEGIN L.A.R/W, A.C.L. & F.F.T. FENCE

+50.20' P.I. (R/W MKR.) LINE "S-6-A" BEGIN L.A.R/W, A.C.L. & F.F.T. FENCE

+50.90' 90' L.A.R/W, A.C.L. & F.F.T. FENCE

+50.95' 95' L.A.R/W

+00.87' 87' L.A.R/W

+00.115' 115' L.A.R/W

+00.P.L. A.C.L. & F.F.T. FENCE P.I. & L.A.R/W

REMOVE PIPE

P.O.T. 230+67.3 | P.O.T. 232+49.7 | P.O.T. 235+63.6 (I.P.L.) P.O.T. 50+00.0 "S-6-A" Δ = 113° 21' Rt. to "S-6-A" | P.O.T. 55+00.0 (I.P.L.) | P.T. 48+74.4 (I.P.B.) | P.I. 46+78.4 (I.P.B.) | P.C. 44+74.1 (I.P.B.) | P.O.T. 240+68.1 (I.P.B.) | P.O.T. 247+97.1 (I.P.L.) | P.O.T. 253+32.1 (I.P.B.)

560 Lft. of Paved Side Ditch Type 'A' Req'd. on Lt. | 259 Sys. of Sodding Req'd. on Lt.

665 Lft. of Paved Side Ditch Type 'A' Req'd. on Rt.

9 Guide Posts Type 'A' Req'd. on Lt.

7 Guide Posts Type 'A' Req'd. on Rt.

274 Sys. of Sodding Req'd. on Rt.

115 Lft. of P.S.D. Type 'A' Req'd. on Lt.

120 Lft. of P.S.D. Type 'A' Req'd. on Rt.

38 Lft. of P.S.D. Type 'A' Req'd. on Lt (down Backslope)

30 Lft. P.S.D. Type 'A' Req'd. on Lt.

185 Lft. of Paved Side Ditch Type 'A' Req'd on Lt.

160 Lft. of Paved Side Ditch Type 'A' Req'd. on Rt.

153 Sys. of Sodding Req'd. on Rt.

5 Sys. of 12" Hand Laid Rip Rap Req'd. on Lt.

4 Guide Posts Type 'A' Req'd. on Lt.

5 Guide Posts Type 'A' Req'd. on Rt.

STATION	CLASS
235+63.6 Rt.	Pub. Rd.
235+63.6 Lt.	Pub. Rd.

Grade of Center Ditch (Plotted 10' above Datum)
+00, El. 761.28 | -0.80% | +0.44% | -0.32% | +0.92% | +00, El. 761.64
+00, El. 761.48 | +00, El. 761.36 | +00, El. 760.92

Grade of Spec. 3' Bottom Ditch on Lt.
+00 Lt. El. 766.60 | -2.60% | -0.36% | -4.72% | -0.58% | +00 Lt. El. 761.00 | +00 Lt. El. 756.00 | +0.50% | +00 Lt. El. 751.50 | +1.00% | +00 Lt. El. 758.50 | +2.00% | +50 Lt., El. 759.50 | +80 Rt. El. 755.06 | +20 Lt. El. 749.80 | +0.50% | Grade of Spec. 3' Bottom Ditch on Rt. | +65 F.L. 749.70 | 745.20 | +00 Rt. El. 745.10

Grade of Spec. 3' Bottom Ditch on Rt.
+00 Lt. & Rt. El. 761.20 | -0.60% | -2.70% | +00 Rt. El. 755.80 | -10.80% | +60 Rt., El. 746.20

Grade of Spec. 3' Bottom Ditch on Lt.
+50 Lt., El. 759.10 | +30 Lt., 749.02 | +1.40% | +0.80% | +0.60% | +50 Rt., El. 741.11 | Grade of Spec. 3' Bottom Ditch on Rt. | +00 Rt. El. 746.21 | 748.90 | +68 | 746.30 F.L.

Grade of Spec. 3' Bottom Ditch on Rt.
+50 Rt., El. 756.17 | +1.40% | +0.80% | +00 Rt., El. 765.07 | +00 Lt. El. 765.56 | +0.80% | +00 Rt., El. 761.47 | Grade of Spec. 3' Bottom Ditch on Lt. | +0.80% | +0.60% | +00 Lt., El. 753.66 | +50 Lt., El. 749.98 | Grade of Spec. 6' Bottom Ditch on Lt.

Grade of Spec. 3' Bottom Ditch on Lt.
+00 Lt. El. 768.87 | +65 Lt., El. 764.11 | +00 Rt. El. 766.07 | +1.54% | Grade of Spec. 3' Bottom Ditch Rt. (Plotted 10' Below Datum)
+82, F.L. 764.20 | 766.00

BALANCE NO. 13
Cut = 17,854 Cys.
Fill + 15% = 43,623 Cys.
Borrow = 25,769 Cys.
Above Borrow to be obtained as follows:
18,529 Cys. from Balance No. 12
7,240 Cys. from Balance No. 14

BALANCE NO. 14
Cut = 25,769 Cys.
Fill + 15% = 17,842 Cys.
Overhaul = 7,240 Cys.
Waste = 687 Cys.
Above Overhaul to be used in Bal. No. 13

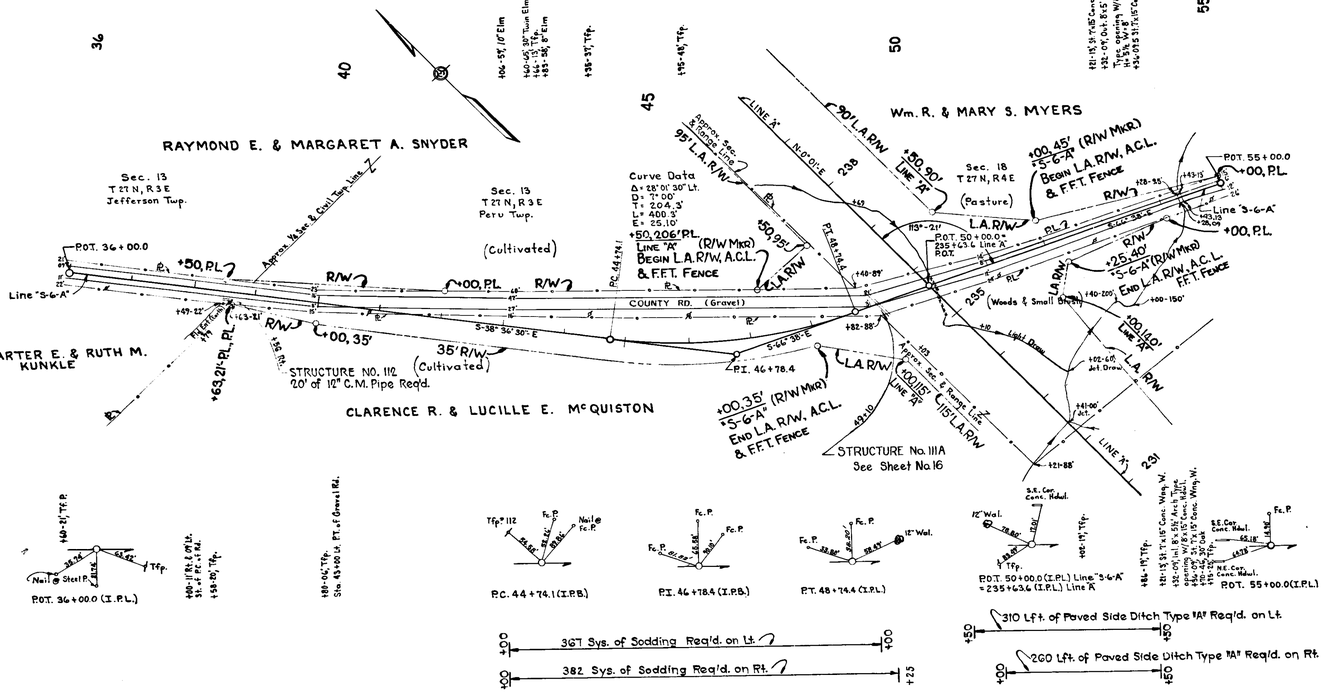
FOR R/W ON "S-6-A" SEE SHEET NO. 26

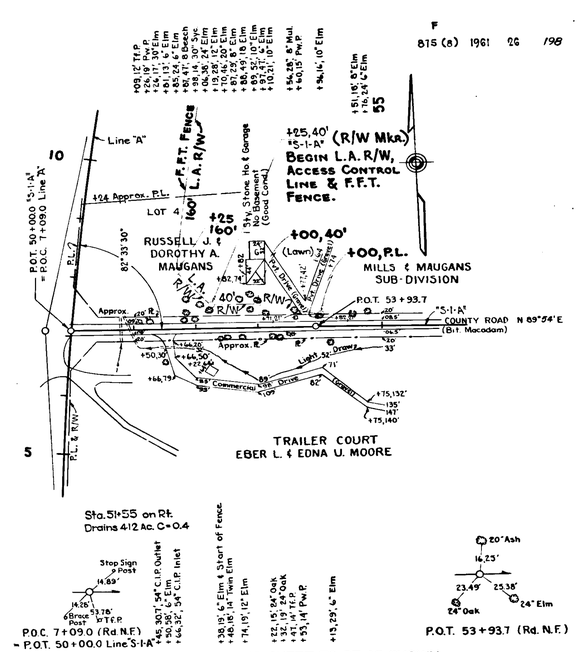
ALL R/W ON THIS SHEET TO BE AS SHOWN.
R/W TO BE ACQUIRED UNDER LIMITED ACCESS PROVISIONS.
POINTS OF ACCESS TO BE AS SHOWN BELOW:

B.M. #28A Elev. 769.99 Bf. Spk. in 15" Walnut 148' Lt. Sta. 236+94
B.M. #29A Elev. 756.21 Bf. Spk. in 21" Maple 91' Rt. Sta. 245+62
B.M. #30A Elev. 769.17 Bf. Spk. in Root of 48" Oak 85' Lt. Sta. 256+12

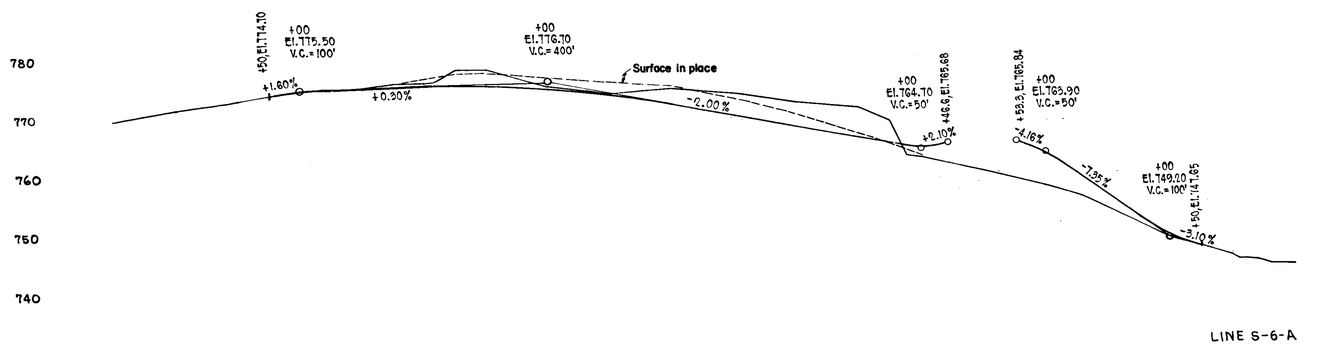
UMTA 11-13-62

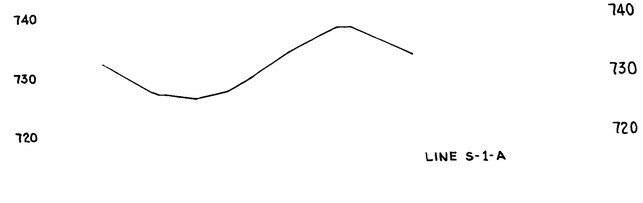
F 875 (8) A 16





ALL R/W ON THIS SHEET TO BE AS SHOWN.





UWFB 11-13-62

F.
BTS (8) "S-1-A" "S-6-A" 26

F
875(8) 1961 27 198

H.R. McCaslin 2-59
C.W. Childs 3-60

EQUATION:
P.O.T. 50+00.0 LINE "S-2-A"
= P.O.T. 23+87.5 LINE "A"

STRUCTURE NO. 22
See Sheet No. 9

CURVE DATA
Δ = 20°22'30" Lt
D = 5°12'
R = 197.9'
T = 391.8'
E = 17.65'

110' L.A. R/W, A.C.L. & F.F.T. FENCE.

+PI. 1001 (Line "A") BEGIN L.A. R/W, A.C.L. & F.F.T. FENCE.

HYACINTH KINLEY
(Cultivated)

ELBERT KELLER
(Cultivated)

SEC. 6
T 26N, R4E

STRUCTURE NO. 23
20' of 12" C.M. Pipe Req'd.

+PI. 995' (Line "A") END L.A. R/W, A.C.L. & F.F.T. FENCE.

ELBERT KELLER

(Cultivated)

End of Construction

CLIFTON E. & VIOLET E. BAIRD
(Trailer Sales)

C. EDWARD & MARY LOIS DAWALT
(Lawn)

STRUCTURE NO. 24
24' of 12" C.M. Pipe Req'd.
Remove pipe in place.

P.O.T. 65+00.0 (P.K.N.F.)

54 Lft. of Paved Side Ditch Removal Req'd. on Rt.

10 Lft. of Paved Side Ditch Type "A1" Req'd. on Rt.

P.O.T. 50+00.0 (IPB) LINE "S-2-A"
= P.O.T. 23+87.5 (IPB) LINE "A"

P.C. 51+56.6 (IPB)(HBA)

P.I. 53+54.5 (IPB)

P.T. 55+48.4 (IPL)

JAMES W. HUFF
(Cultivated)
SEC. 19
T 27N, R4E

+PI. 220' (R/W MKR) Begin L.A. R/W, A.C.L. & F.F.T. Fence

+PI. 270' (R/W MKR) End L.A. R/W, A.C.L. & F.F.T. Fence

EDWARDS DITCH is Legal Name

STRUCTURE NO. 91
See Sheet No. 13

+PI. 200' (R/W MKR) End L.A. R/W, A.C.L. & F.F.T. Fence

JAMES W. HUFF
(Cultivated)

GEORGE W. & MARGARET E. JABERG
(Cultivated)

GROVER C. TILLETT
(Cultivated)

SEC. 30
T 27N, R4E

ALL R/W ON THIS SHEET TO BE AS SHOWN.

P.O.T. 44+00.0 (IPL)

P.O.T. 50+00.0 LINE "S-4-A"
= P.O.T. 163+10.8 (IPL) LINE "A"

P.O.T. 56+00.0 (IPL)

55 Lft. of Straight Beam G.R. Req'd on Lt. (See Detail on Sheet No. 34)

55 Lft. of Straight Beam G.R. Req'd on Lt. (See Detail on Sheet No. 34)

C.W. Childs 3-60

LINE S-2-A

+00 El. 719.28 V.C. = 50'
+50.1, El. 720.08
+50 El. 721.66 V.C. = 500'
+00, 719.50
-0.08%
+0.68%
-0.43%

LINE S-4-A

+90 639.85 V.C. = 50'
-1.00%
+3.19%
-3.04%
+0.70%
+00, Rt. El. 631.51
+15, Rt. El. 632.20
+0.60%
Grade of Spec. 3' Bottom Ditch on Rt.

725.1 726.0 724.8 725.3 725.4 722.1 718.3 720.2 721.1 720.6 720.5 720.5 720.4 720.1 718.3 718.9 718.7 718.5 718.4 718.5 718.3 718.4 718.4 718.4 718.5 718.4 719.2 720.6

640.6 640.2 638.5 639.6 639.9 640.1 640.2 640.2 640.4 640.4 640.4 640.4 639.8 639.2 638.2 638.3 638.3 638.1 638.0 638.4 638.2 638.3

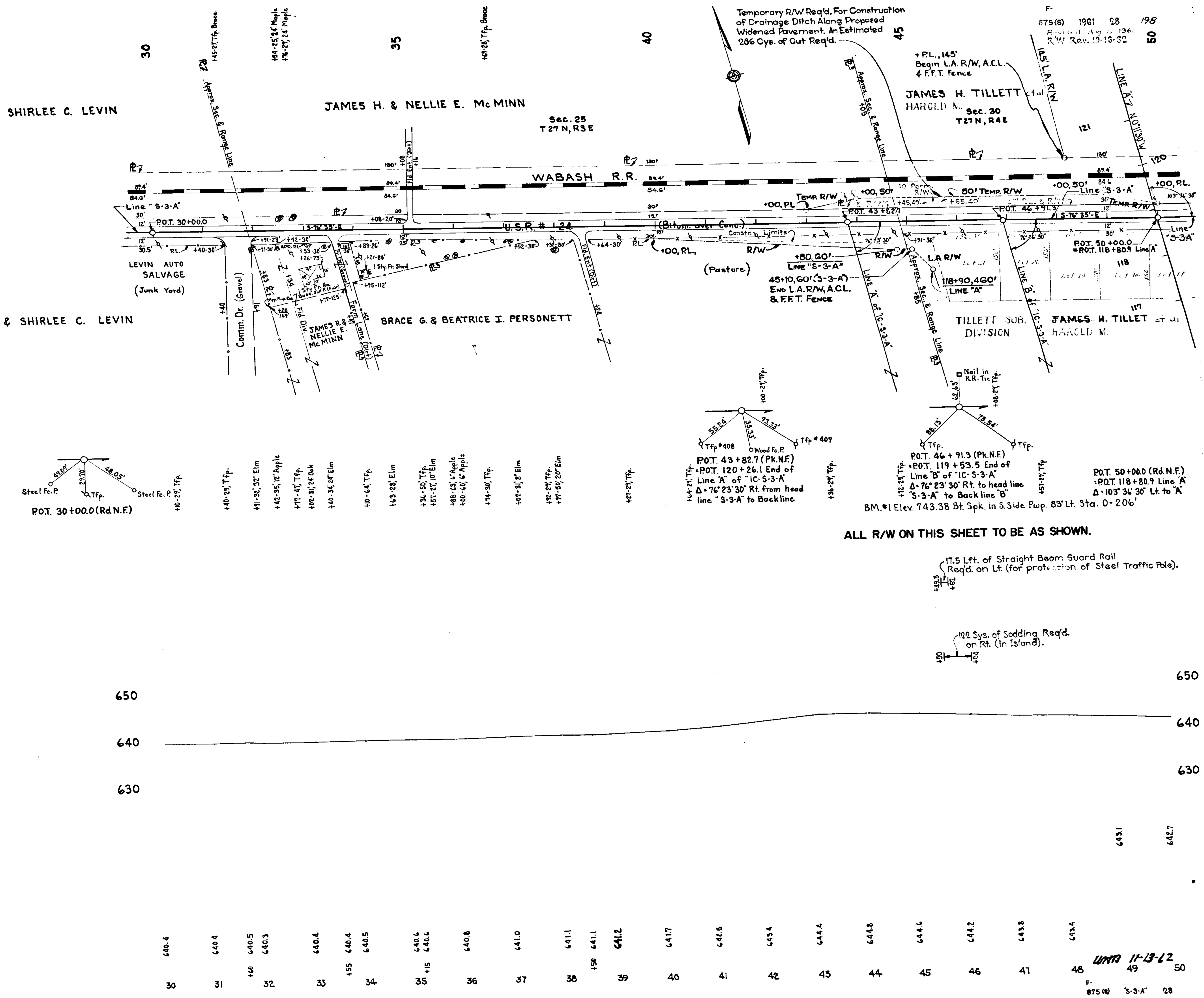
50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 44 45 46 47 48 49 50 51 52 53 54 55 56

UMTA 11-13-62

F-
875(8) 13-2-A 27

H.R. McCASLIN 9-59
R.W. MAYS 3-60
R. RENKENBERGER 4-60

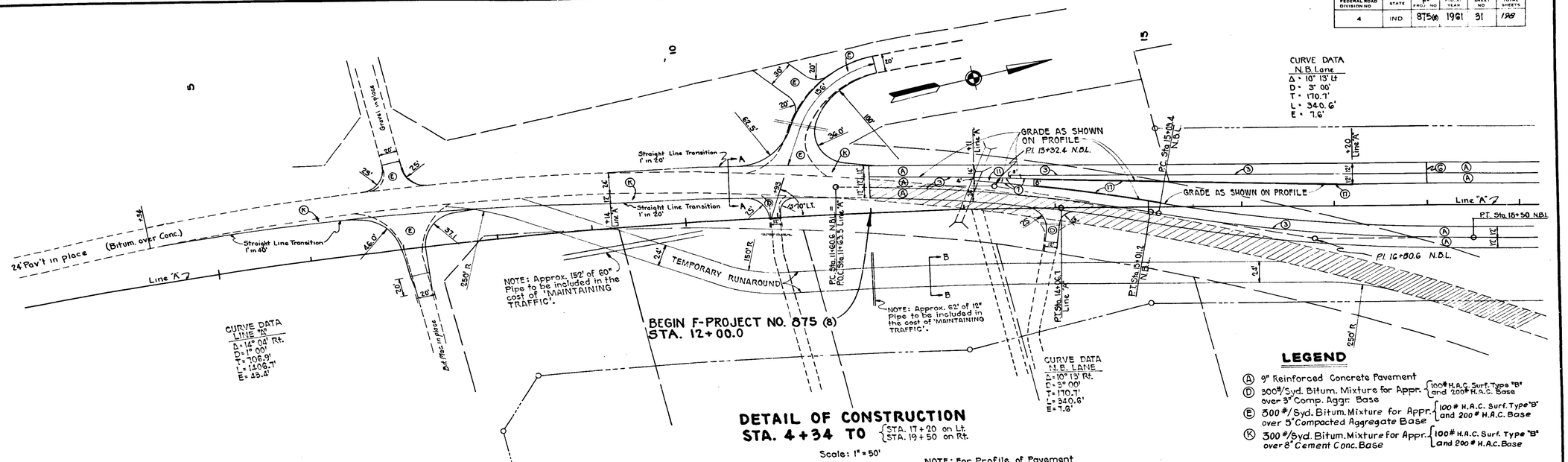
8340T INKED



H.R. McCASLIN 9-59
R.W. MAYS 3-60
R. RENKENBERGER 4-60

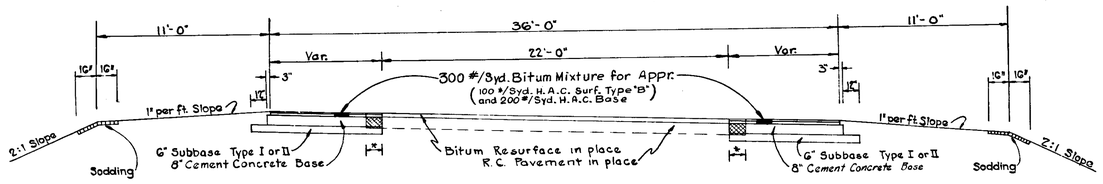
8341L

FEDERAL ROAD DIVISION NO	STATE	F. PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	875(8)	1961	31	195

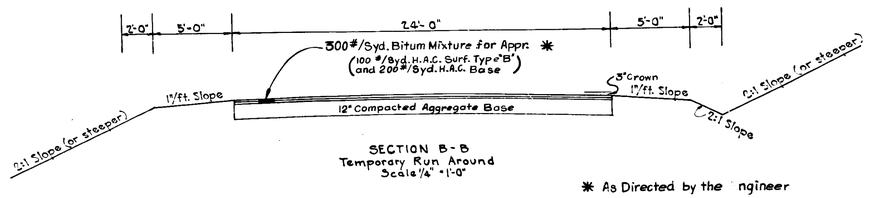


LEGEND

- (A) 9" Reinforced Concrete Pavement
- (D) 300#/Syd. Bitum. Mixture for Appr. over 3" Comp. Aggr. Base { 100# H.A.C. Surf. Type "B" and 200# H.A.C. Base
- (E) 300#/Syd. Bitum. Mixture for Appr. over 5" Compacted Aggregate Base { 100# H.A.C. Surf. Type "B" and 200# H.A.C. Base
- (K) 300#/Syd. Bitum. Mixture for Appr. over 8" Cement Conc. Base { 100# H.A.C. Surf. Type "B" and 200# H.A.C. Base
- (Z) Ear Construction Type "C"
- (3) Longitudinal Joint
- (6) Construction Joint
- (7) Keyway Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Joint Filler
- (11) Concrete Center Curb Type "B"
- (17) Integral Concrete Curb Type "B"
- (21) Keyway Construction Joint
- Pavement to be Removed

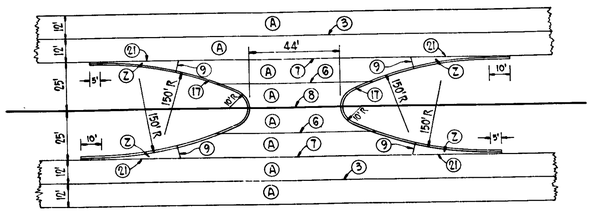


SECTION A - A
Scale ¼" = 1'-0"



SECTION B - B
Temporary Run Around
Scale ¼" = 1'-0"

* As Directed by the Engineer



DETAIL OF TYPICAL PUBLIC ROAD CROSSOVER
Scale: 1" = 30'

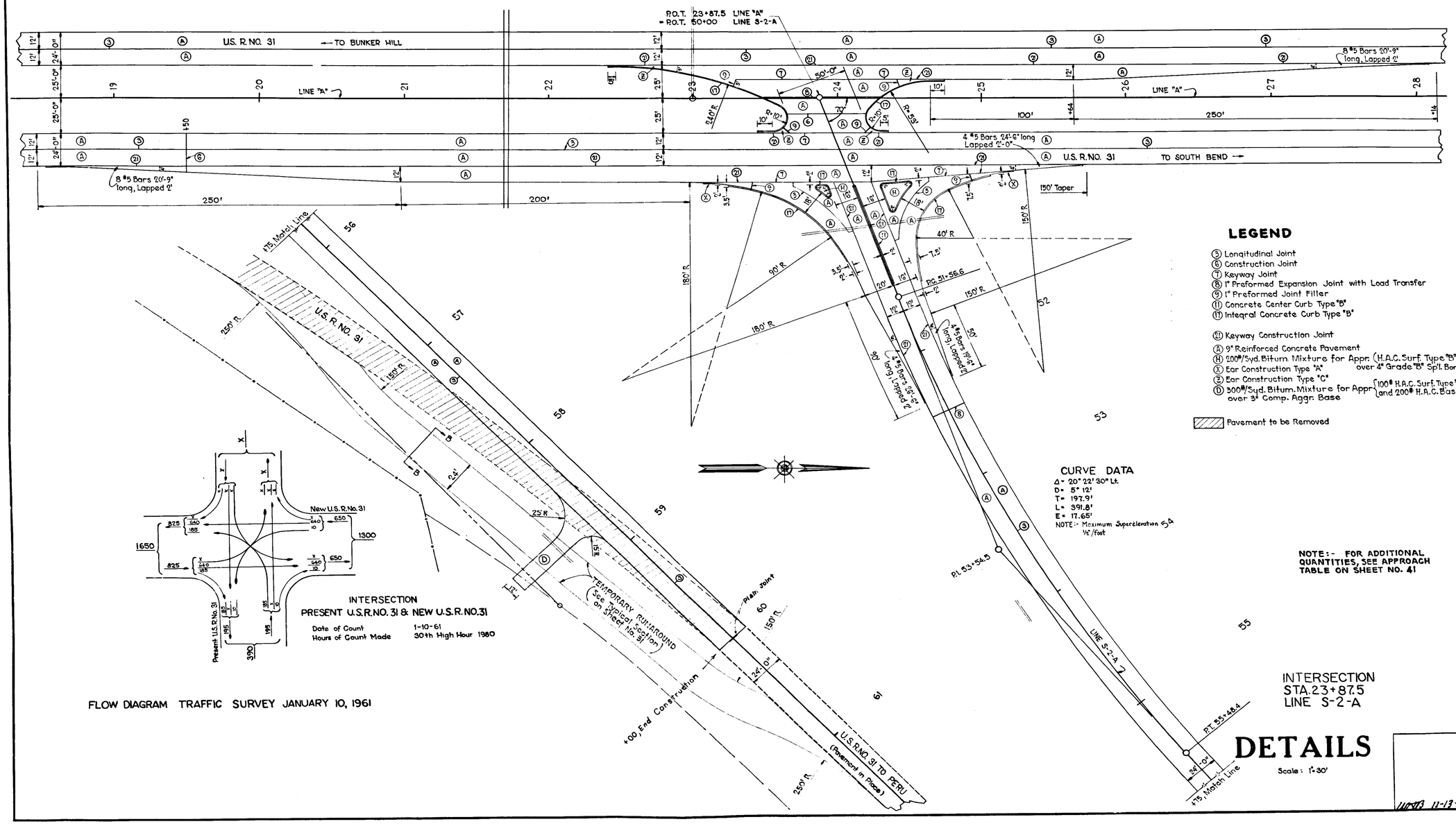
NOTE: FOR ADDITIONAL QUANTITIES, SEE APPROACH TABLE ON SHEET NO. 41

DETAILS

Scale: As Shown

11-13-62

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	875 (8)	1961	32	198



LEGEND

- (5) Longitudinal Joint
- (6) Construction Joint
- (7) Keyway Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Joint Filler
- (11) Concrete Center Curb Type "B"
- (11) Integral Concrete Curb Type "B"
- (21) Keyway Construction Joint
- (A) 9" Reinforced Concrete Pavement
- (H) 200#/Syd. Bitum. Mixture for Appr. (H.A.C. Surf. Type "B") over 4" Grade "B" Sp'l. Borrow
- (X) Ear Construction Type "A"
- (Z) Ear Construction Type "C"
- (D) 300#/Syd. Bitum. Mixture for Appr. over 3" Comp. Aggr. Base { 100# H.A.C. Surf. Type "B" and 200# H.A.C. Base

Pavement to be Removed

FLOW DIAGRAM TRAFFIC SURVEY JANUARY 10, 1961

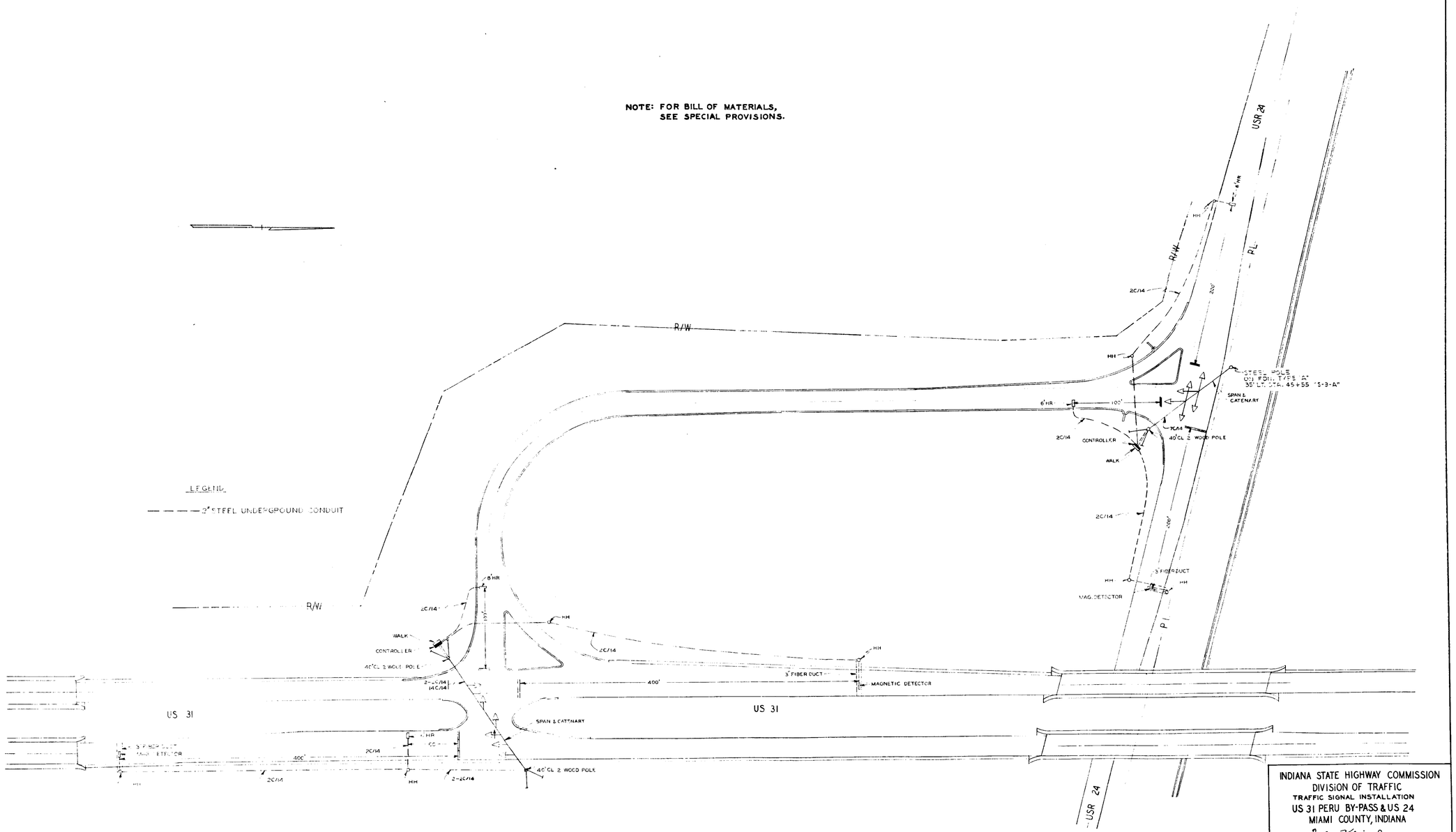
DETAILS

Scale: 1"=30'

11-13-62

FEDERAL ROAD REGION NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-875 (8)	1962	33 "A"	198

NOTE: FOR BILL OF MATERIALS,
SEE SPECIAL PROVISIONS.



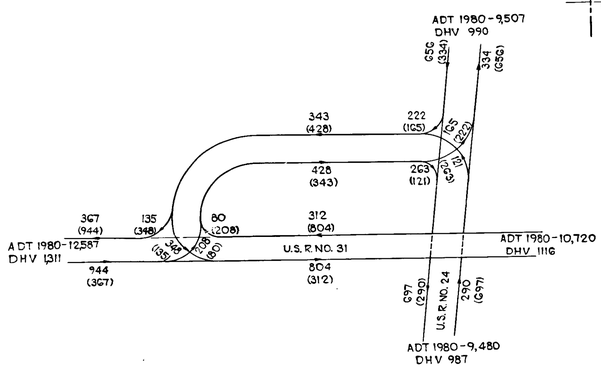
INDIANA STATE HIGHWAY COMMISSION
DIVISION OF TRAFFIC
TRAFFIC SIGNAL INSTALLATION
US 31 PERU BY-PASS & US 24
MIAMI COUNTY, INDIANA

F. A. Klein Jr.
ENGINEER OF TRAFFIC SIGNALS

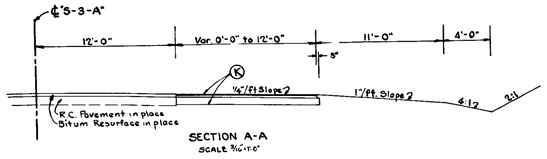
SCALE 1"=50'

FEDERAL ROAD REGION NO	STATE	F. PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	875(8)	1961	33	198

R/W Rev. 10-16-62



TRAFFIC SURVEY FLOW DIAGRAM
NOVEMBER 1960

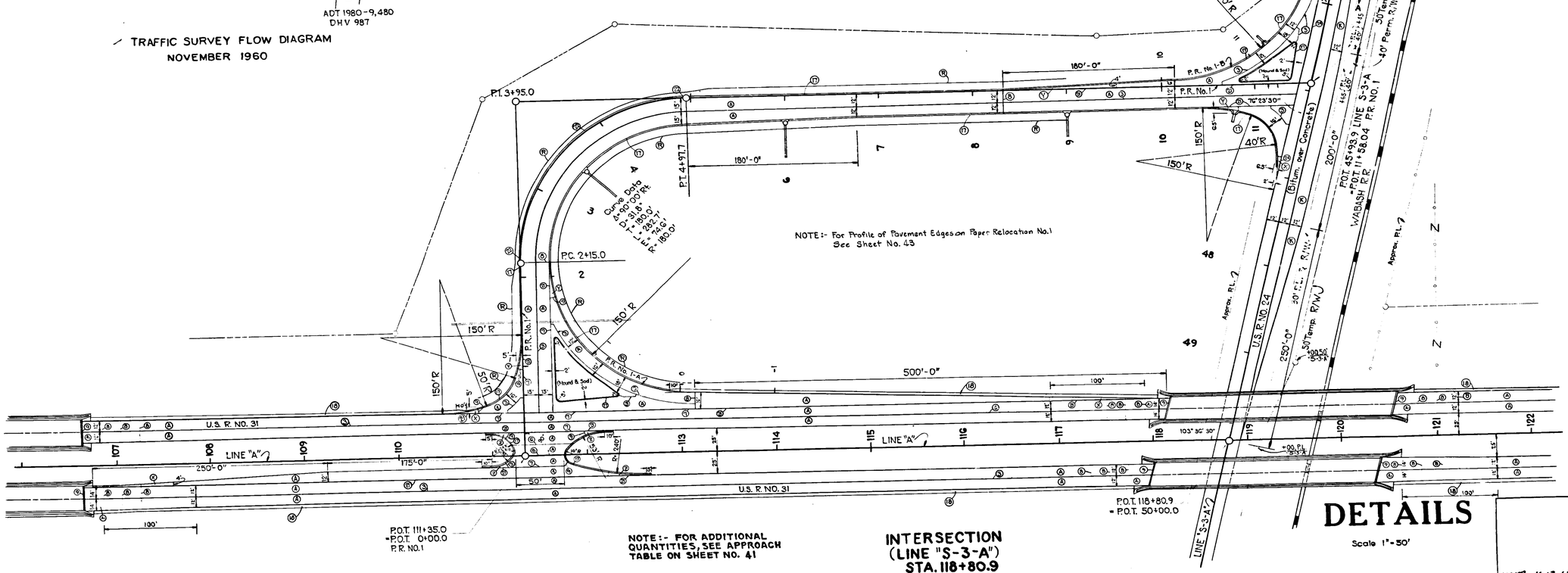


TYPICAL SECTION U.S.R. NO. 24

LEGEND

- (3) Longitudinal Joint
- (6) Construction Joint
- (7) Keyway Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Joint Filler
- (11) Integral Concrete Curb Type "B"
- (18) Lip Gutter
- (21) Keyway Construction Joint
- (22) Integral Concrete Curb Type "C"
- (24) Plain Joint

- (A) 9" Reinforced Concrete Pavement
- (A1) Std. Thickened Pvmt. for Bridge Appr. (See Sheet No. 48)
- (K) 300 #/ Syd. Bitum. Mixture for Appr. { 100 # H.A.C. Surf. Type "B" and 200 # H.A.C. Base over 8" Cement Conc. Base
- (X) Ear Construction Type "A"
- (Y) Ear Construction Type "B"
- (Z) Ear Construction Type "C"
- (R) Straight Beam Guard Rail



NOTE:- For Profile of Pavement Edges on Paper Relocation No. 1
See Sheet No. 43

NOTE:- FOR ADDITIONAL QUANTITIES, SEE APPROACH TABLE ON SHEET NO. 41

INTERSECTION
(LINE "S-3-A")
STA. 118+80.9

DETAILS

Scale 1"=50'

UNITS 11-13-62

FEDERAL ROAD DIVISION NO.	STATE	F. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875(8)	1961	34	198

LEGEND

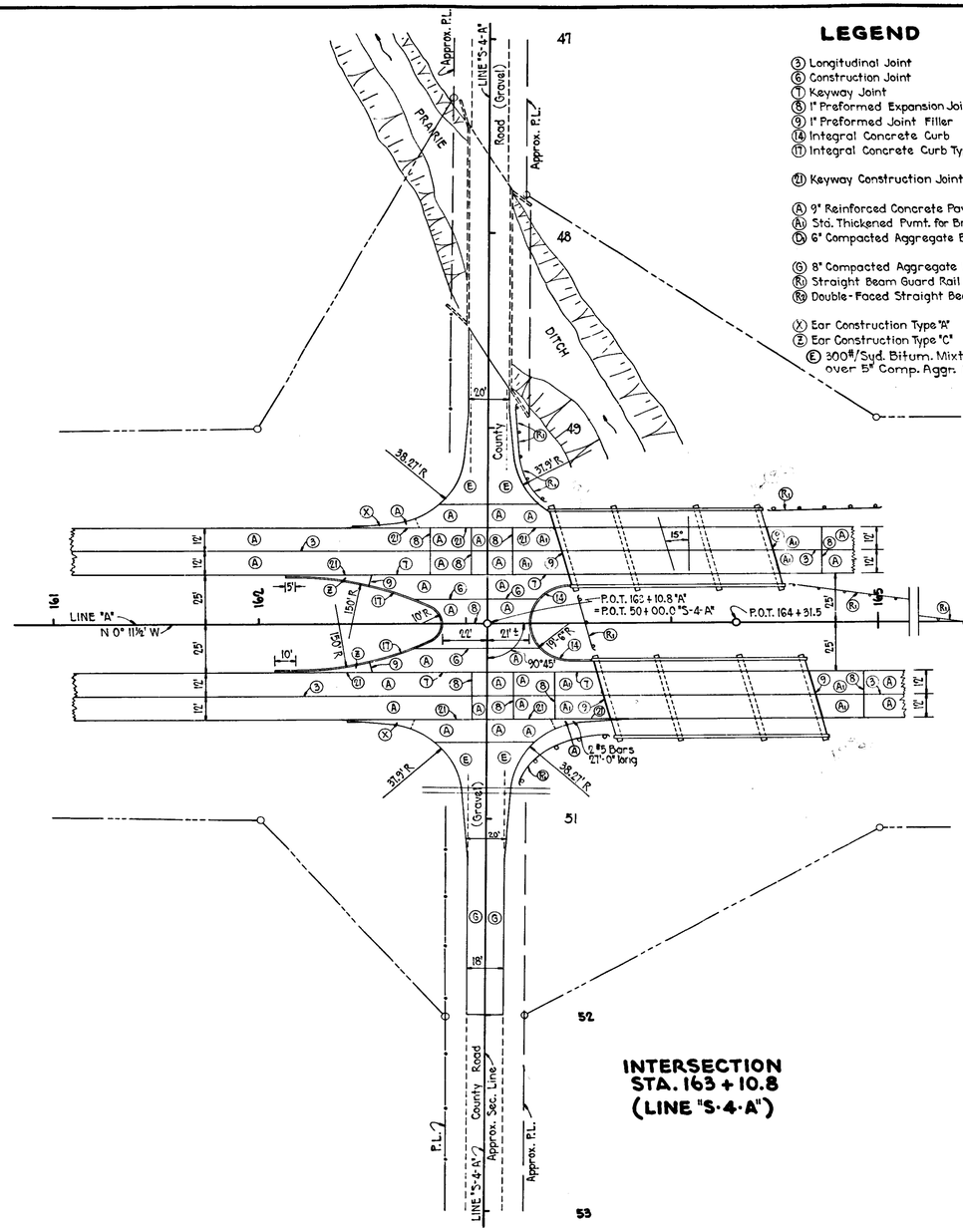
(3) Longitudinal Joint
(6) Construction Joint
(7) Keyway Joint
(8) 1" Preformed Expansion Joint with Load Transfer
(9) 1" Preformed Joint Filler
(14) Integral Concrete Curb
(17) Integral Concrete Curb Type "B"

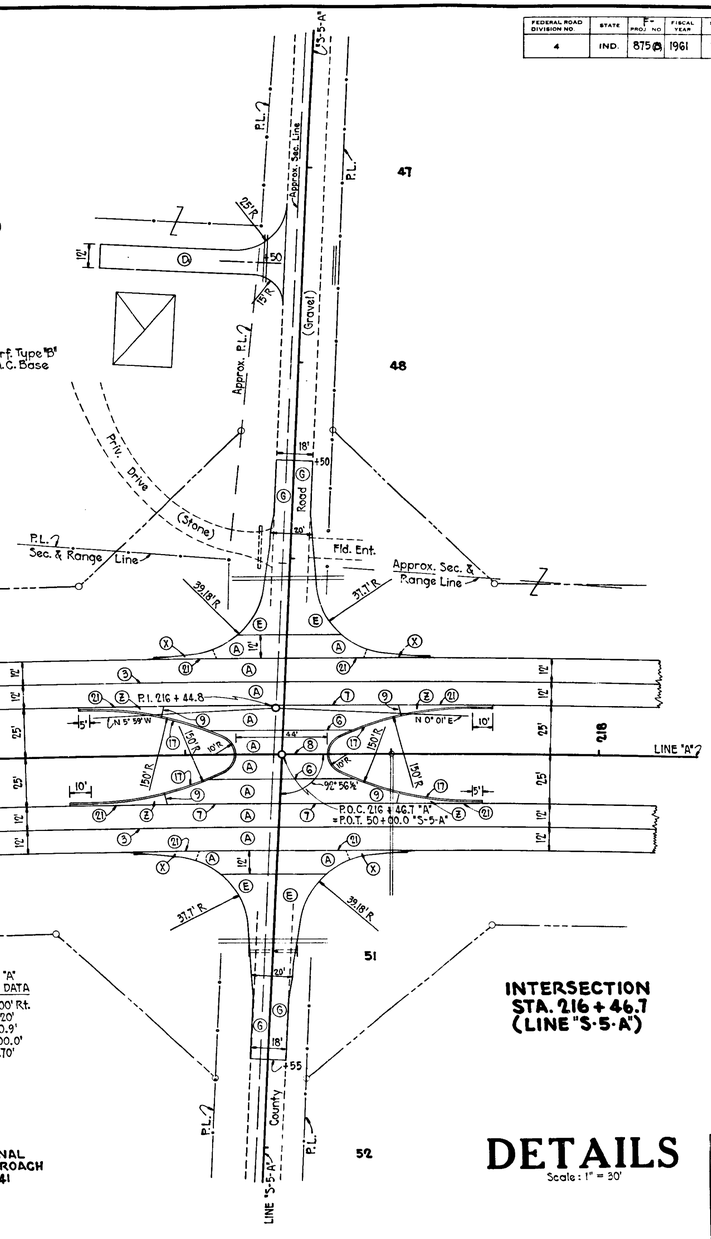
(21) Keyway Construction Joint

(A) 9" Reinforced Concrete Pavement
(A1) Std. Thickened Pvmt. for Bridge Appr. (See Sheet No.48)
(D) 6" Compacted Aggregate Base

(G) 8" Compacted Aggregate Base
(R1) Straight Beam Guard Rail
(R2) Double-Faced Straight Beam Guard Rail

(X) Ear Construction Type "A"
(Z) Ear Construction Type "C"
(E) 300#/Syd. Bitum. Mixture for Appr. over 5" Comp. Aggr. Base — {100# H.A.C. Surf. Type "B" and 200# H.A.C. Base





LINE "A"
CURVE DATA
Δ = 6° 00' Rt.
D = 0° 20'
T = 900.9'
L = 1800.0'
E = 23.70'

INTERSECTION STA. 163 + 10.8 (LINE "S-4-A")

INTERSECTION STA. 216 + 46.7 (LINE "S-5-A")

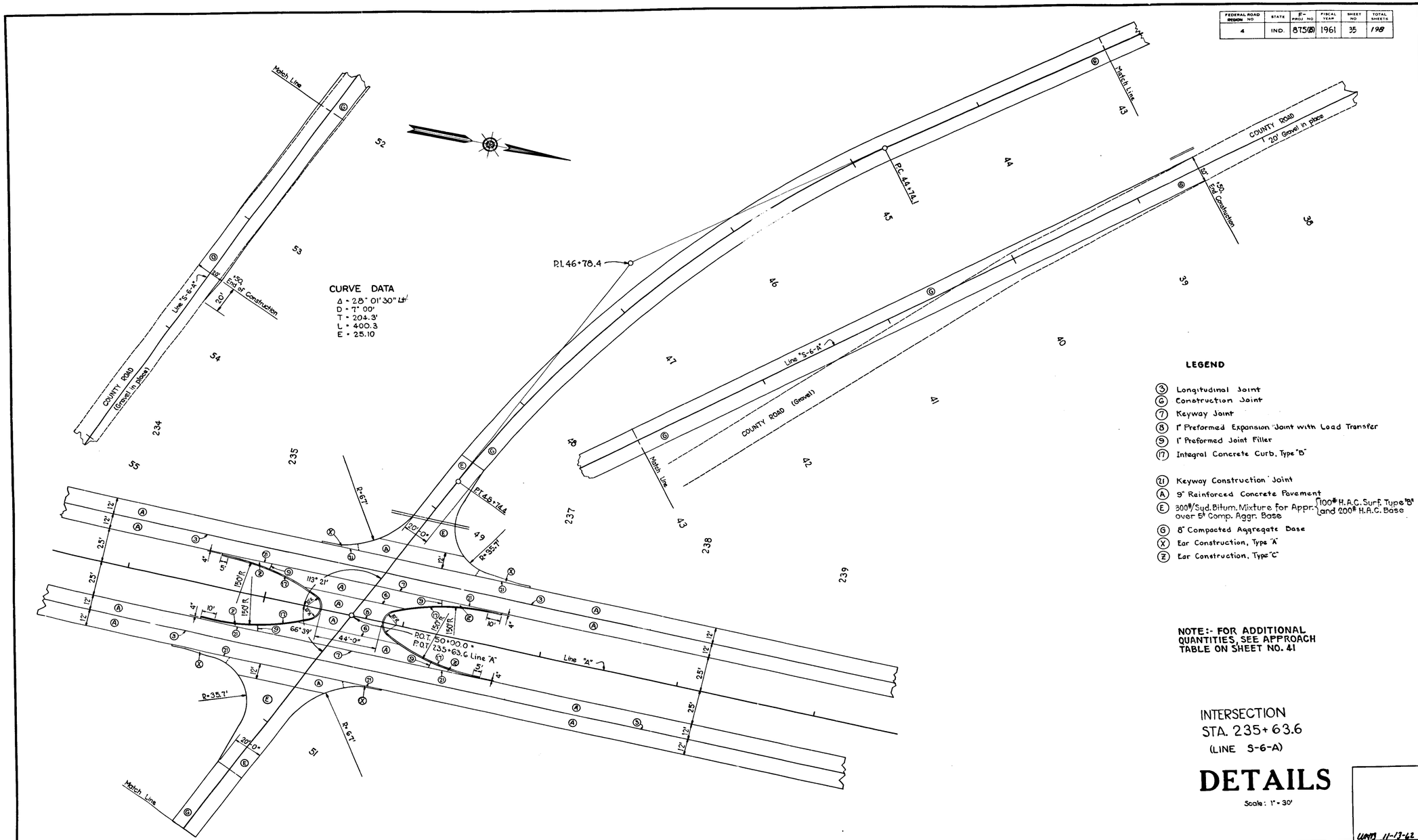
NOTE:- FOR ADDITIONAL QUANTITIES, SEE APPROACH TABLE ON SHEET NO. 41

DETAILS

Scale: 1" = 30'

WMB 11-17-62

FEDERAL ROAD REGION NO	STATE	F- PROJ NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	875(8)	1961	35	198



LEGEND

- (3) Longitudinal Joint
- (6) Construction Joint
- (7) Keyway Joint
- (8) 1" Preformed Expansion Joint with Load Transfer
- (9) 1" Preformed Joint Filler
- (17) Integral Concrete Curb, Type "B"
- (21) Keyway Construction Joint
- (A) 9" Reinforced Concrete Pavement
- (E) 300#/Syd. Bitum. Mixture for Appr. over 5" Comp. Aggr. Base } 100# H.A.C. Surf. Type "B" and 200# H.A.C. Base
- (G) 8" Compacted Aggregate Base
- (X) Ear Construction, Type "A"
- (Z) Ear Construction, Type "C"

NOTE:- FOR ADDITIONAL QUANTITIES, SEE APPROACH TABLE ON SHEET NO. 41

INTERSECTION
STA. 235+63.6
(LINE S-6-A)

DETAILS

Scale: 1" = 30'

USDH 11-17-62

Rev. 8-10-64 per R/W Dept.
& per Design Dept.

FEDERAL ROAD SECTION NO.	STATE	F. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	8715(8)	1961	41	198

Rev. 4-15-65 per En. of L. A.

SUBBASE DRAIN PIPE TABLE

LOCATION		6" GROUP "K" PIPE	OUTLET	6" B.C.C.M. PIPE	GUIDE POSTS TYPE "A"		SODDING SYS.	REMARKS
17+20 to 21+70	Lt.	450'	21+70 Lt.	20'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 20
21+70 to 23+00	Lt.	130'	23+00 Lt.	16'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 21
23+00 to 28+50	Lt.	550'	28+50 Lt.	16'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 25
28+50 to 33+00	Lt.	450'	28+50 Lt.	16'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 25
33+00 to 41+00	Lt.	800'	33+32 Lt.	26'	1	2		1-45° Bend
41+00 to 57+50	Lt.	1650'	40+82 Lt.	26'	1	2		1-45° Bend
			57+50 Lt.	20'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 33
57+50 to 65+50	Lt.	800'	65+50 Lt.	18'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 34
65+50 to 75+50	Lt.	1000'	75+65 Lt.	22'	1	2		1-45° Bend
75+50 to 83+50	Lt.	800'	83+65 Lt.	22'	1	2		1-45° Bend
83+50 to 89+50	Lt.	650'	89+95 Lt.	28'	1	2		3-45° Bends
89+50 to 98+45	Lt.	908'	98+45 Lt.	18'	1	2		2-45° Bends
106+86 to 110+40	Lt.	354'	106+90 Lt.	18'	1	2		1-90° Bend
110+50 to 112+94	Lt.	244'	110+50 Lt.	18'	1	2		1-90° Bend
113+05 to 115+45	Lt.	240'	113+05 Lt.	18'	1	2		1-90° Bend
115+55 to 117+91	Lt.	236'	115+55 Lt.	18'	1	2		1-90° Bend
120+85 to 123+45	Lt.	260'	120+85 Lt.	18'	1	2		1-90° Bend
123+55 to 126+45	Lt.	290'	123+55 Lt.	18'	1	2		1-90° Bend
126+55 to 132+85	Lt.	630'	126+55 Lt.	18'	1	2		1-90° Bend
			132+85 Lt.	18'	1	2		1-90° Bend
134+95 to 137+95	Lt.	300'	137+95 Lt.	18'	1	2		1-90° Bend
138+05 to 140+45	Lt.	240'	140+45 Lt.	18'	1	2		1-90° Bend
140+54 to 146+44	Lt.	590'	146+55 Lt.	16'				1-45° Bend. Outlet Thru. Hdwl. of Str. No. 87
146+50 to 153+50	Lt.	700'	153+50 Lt.	18'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 88
153+50 to 163+40	Lt.	990'	156+00 Lt.	26'	1	2		1-Tee
			161+00 Lt.	20'	1	2		1-Tee
164+50 to 174+00	Lt.	950'	169+50 Lt.	28'	1	2		1-Tee
174+00 to 184+00	Lt.	1000'	174+00 Lt.	22'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 94
184+00 to 193+00	Lt.	900'	183+85 Lt.	22'	1	2		1-45° Bend
193+00 to 201+50	Lt.	850'	192+85 Lt.	22'	1	2		1-45° Bend
201+50 to 211+00	Lt.	962'	201+35 Lt.	22'	1	2		3-45° Bends
211+00 to 230+00	Lt.	1962'	210+65 Lt.	26'	1	2		1-45° Bend
			230+15 Lt.	22'	1	2		3-45° Bends
230+00 to 235+00	Lt.	500'	235+15 Lt.	22'	1	2		1-45° Bend
235+00 to 250+00	Lt.	1500'	247+00 Lt.	18'	1	2		1-Tee
19+50 to 37+50	Rt.	1812'	28+50 Rt.	16'				2-45° Bends and 1-Tee
37+50 to 46+50	Rt.	938'	37+05 Rt.	36'	1	2		1-45° Bend
46+50 to 56+00	Rt.	1026'	46+05 Rt.	30'	1	2		1-45° Bend
			56+50 Rt.	34'	1	2		1-45° Bend
56+00 to 66+00	Rt.	1054'	66+80 Rt.	38'	1	2		1-30° Bend
66+00 to 76+00	Rt.	1038'	76+45 Rt.	26'	1	2		1-45° Bend
76+30 to 82+00	Rt.	570'	82+15 Rt.	22'	1	2		1-45° Bend
82+00 to 94+00	Rt.	1200'	94+15 Rt.	22'	1	2		1-45° Bend
94+00 to 98+36	Rt.	436'	98+36 Rt.	18'	1	2		1-90° Bend
106+96 to 110+42	Rt.	346'	106+96 Rt.	18'	1	2		1-90° Bend
110+48 to 114+46	Rt.	398'	110+48 Rt.	18'	1	2		1-90° Bend
114+54 to 117+70	Rt.	316'	114+54 Rt.	18'	1	2		1-90° Bend
120+56 to 123+46	Rt.	290'	120+56 Rt.	18'	1	2		1-90° Bend
123+53 to 126+47	Rt.	294'	123+53 Rt.	18'	1	2		1-90° Bend
126+53 to 132+37	Rt.	584'	126+53 Rt.	18'	1	2		1-90° Bend
			132+37 Rt.	18'	1	2		1-90° Bend
134+43 to 137+97	Rt.	354'	137+97 Rt.	18'	1	2		1-90° Bend
138+03 to 140+47	Rt.	244'	140+47 Rt.	18'	1	2		1-90° Bend
140+54 to 153+50	Rt.	1296'	153+68 Rt.	26'	1	2		1-45° Bend
153+90 to 163+50	Rt.	1000'	156+00 Rt.	24'	1	2		1-Tee
			161+00 Rt.	20'	1	2		1-Tee
164+70 to 181+00	Rt.	1698'	167+00 Rt.	30'	1	2		1-Tee
			171+00 Rt.	30'	1	2		1-Tee
			175+00 Rt.	28'	1	2		1-Tee
181+00 to 186+00	Rt.	538'	180+55 Rt.	26'	1	2		1-45° Bend
186+00 to 196+00	Rt.	1000'	185+85 Rt.	22'	1	2		1-45° Bend
196+00 to 205+10	Rt.	910'	195+85 Rt.	22'	1	2		1-45° Bend
205+16 to 213+50	Rt.	834'	205+16 Rt.	26'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 100
213+50 to 229+00	Rt.	1550'	213+32 Rt.	26'	1	2		1-45° Bend
			229+18 Rt.	26'	1	2		1-45° Bend
229+00 to 234+00	Rt.	500'	234+15 Rt.	22'	1	2		1-45° Bend
234+00 to 244+00	Rt.	1000'	244+00 Rt.	20'				1-90° Bend. Outlet Thru. Hdwl. of Str. No. 113
244+00 to 250+00	Rt.	600'	246+00 Rt.	18'	1	2		1-Tee

APPROACH TABLE

LOCATION	TYPE	CUT CYS.	FILL CYS.	LENGTH FT.	WIDTH FT.	RADII FT.	COMPACTED AGGREGATE BASE 3" SYS.	5" SYS.	G" SYS.	8" SYS.	GRADE "B" SPECIAL BORROW CYS.	8" CEMENT CONC. BASE SYS.	300#/SYD. BIT. MIXTURE FOR APPROACHES (100# H.R.C. Surf. Type "B" and 200# H.R.C. Base). SYS.	200#/SYD. BIT. MIXTURE FOR APPROACHES (H.R.C. Surf. Type "B"). SYS.	9" R.C. PVMT. SYS.	CLASS "F" CONC. FOR INTEG. CURB WALK CYS.	1" PREF. EXP. JT. WITH LOAD TRANSF. LFT.	1" PREF. JOINT FILLER LFT.	REINF. STEEL FOR PVMT. LBS.	INTEG. CONC. CURB LFT.	INTEG. CONC. CURB TYPE "B" LFT.	INTEG. CONC. CURB TYPE "C" LFT.	CONC. CENTER CURB TYPE "B" SYS.	STRAIGHT BEAM GUARD RAIL LFT.	GUIDE POST TYPE "B" EACH	SEE DETAIL ON SHEET NO.
4+34 to 17+20 Lt. & 19+50 Rt.	Temp X-Over	INCLUDED IN BALANCE NO.1										749	722		3065						479		49			31
7+09.0 Lt.	"D"	8	0	30	20	25		98					98													31
7+09.0 Rt.	"B"	18	0	71	20	40 371.1		280					280													31
10+93 Lt.	"B"	2	2	156	20	62.5 36		492					492													31
10+98 Rt.	II (Temp.)	0	0	25	12	25 12	54						54													
11+40 Lt.	IV	0	0	52	30	20		193					193												6	31
~~16+50 Rt.~~	~~II~~																									
~~13+35 Rt.~~	~~V~~	~~2~~	~~0~~																							
14+00 Rt.	II (Temp.)	2	0	37	12	25 15	70						70													31
23+87.5	Crossover	0	0	50	50	240-10 65-10									850		80	20	413		248					32
23+87.5 Rt.	Pub. Rd.	8522	256	947	24	80-10-45 150-10-30					4			32	3857		24	10	600		314		18			32
54+00 Rt. "S-2-A"	V	23	0																							
~~17+20 Rt.~~	~~II~~																									
58+70 Rt. "S-2-A"	II	0	10	66	12	25 15	108						108													32
44+53 Lt.	"B"	0	74	90	20	371.4 36.55									313		10	142								
44+53	Crossover	0	0	50	44	150-10-135									460		44	20	367		342					31
44+53 Rt.	"B"	0	21	62	20	150-10-135 38.55 37.6									251		10	142								
66+00 Lt.	V	2	0																							
66+00	Earth X-Over																									
66+00 Rt.	V	2	0																							
111+50 Lt.	Two Way Ramp	1090	42,611	1097	30 24	150-10-150 75 150-10-135									3442		70	15	1100		2907	283		1605		33
111+50	Crossover	0	0	50	50	150-10-135									861		55	20	440		222					33
118+80.9	U.S.R. No. 24	648	148									619	600													
123+00 Lt.	V	0	1434																							
123+00 Rt.	V	0	1246																							
137+00 Lt.	V	0	684																							
137+00 Rt.	V	0	222																							
163+10.8 Lt.	"B"	GRADING		87	20	38.27 37.9		207					207		85		33	9	70							34
163+10.8	Crossover	IN BRIDGE		50	43	150-10-135 114.4									382		43	20	184	70	172					34
163+10.8 Rt.	"B"	CONTRACT		151	18	37.9 38.27		149		181			149		99		29	1	128							34
170+00	Earth X-Over																									
~~176+00~~ 163+00 Rt.	V	0	7																							
209+50 Lt.	V	6	0																							
210+40.7 Lt.	"B"	62	0	101	18	39.18 37.7		155		76			155		100				142							34
210+40.7	Crossover	0	0	50	44	150-10-135 150-10-135									460		44	20	367		342					34
210+40.7 Rt.	"B"	24	18	106	18	37.7 39.18		155		86			155		100				142							34
47+50 Lt. "S-5-A"	V	0	0																							
47+50 Rt. "S-5-A"	II	5	0	90	12	25 15			140																	34
235+63.6 Lt.	"B"	4039	83	1097	20	67 35.7		238		2238			238		118				122							35
235+63.6	Crossover	0	0	50	44	150-10-135 150-10-135									460		44	20	367		342					35
235+63.6 Rt.	"B"	77	841	296	20	35.7 67		238		458			238		118				122							35
~~17+20 Rt.~~	~~II~~																									
38+56 Rt. "S-6-A"	V	0	0																							
~~Earth X-Over~~																										
102+68.00	BRIDGE APPROACHES														130	5.8	306	260	7316							
119+24.16	BRIDGE APPROACHES														132	5.9	306	266	7466							
139+65.25	BRIDGE APPROACHES														149	7.4	306	284	7498							
164+08.00	BRIDGE APPROACHES																288	120	5322							
TOTALS							232	2205	140	3039	4	1368	3759	32	17,212	19.1	1672	1105	32450	70	4868	283	61	1695	6	

- Out of Order -

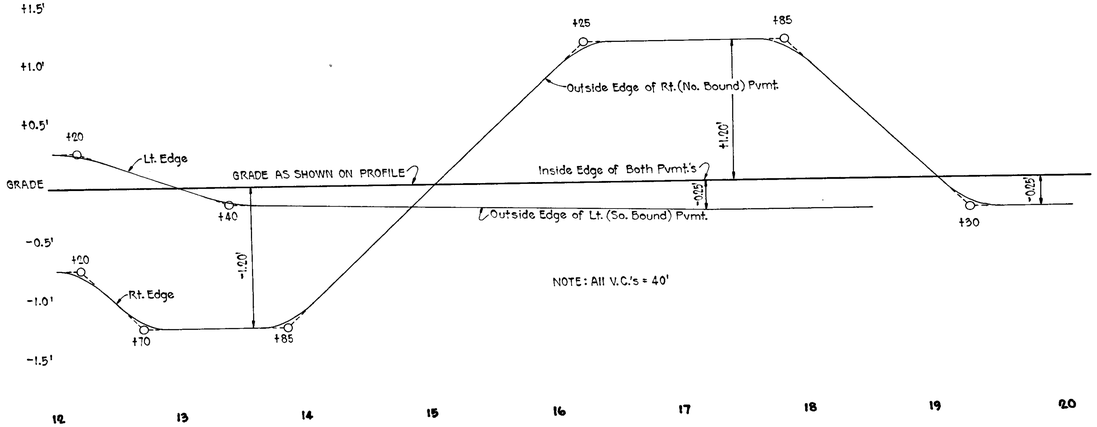
123+00 Earth X-Over

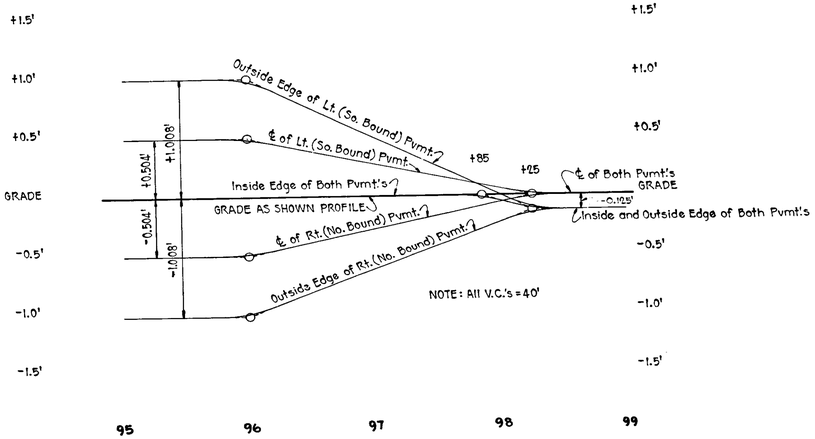
137+00 Earth X-Over

✱ INCLUDES QUANTITIES FOR DECELERATION LANE

WMM 11-13-62

F-
875(8) 1961 42 198
"A"



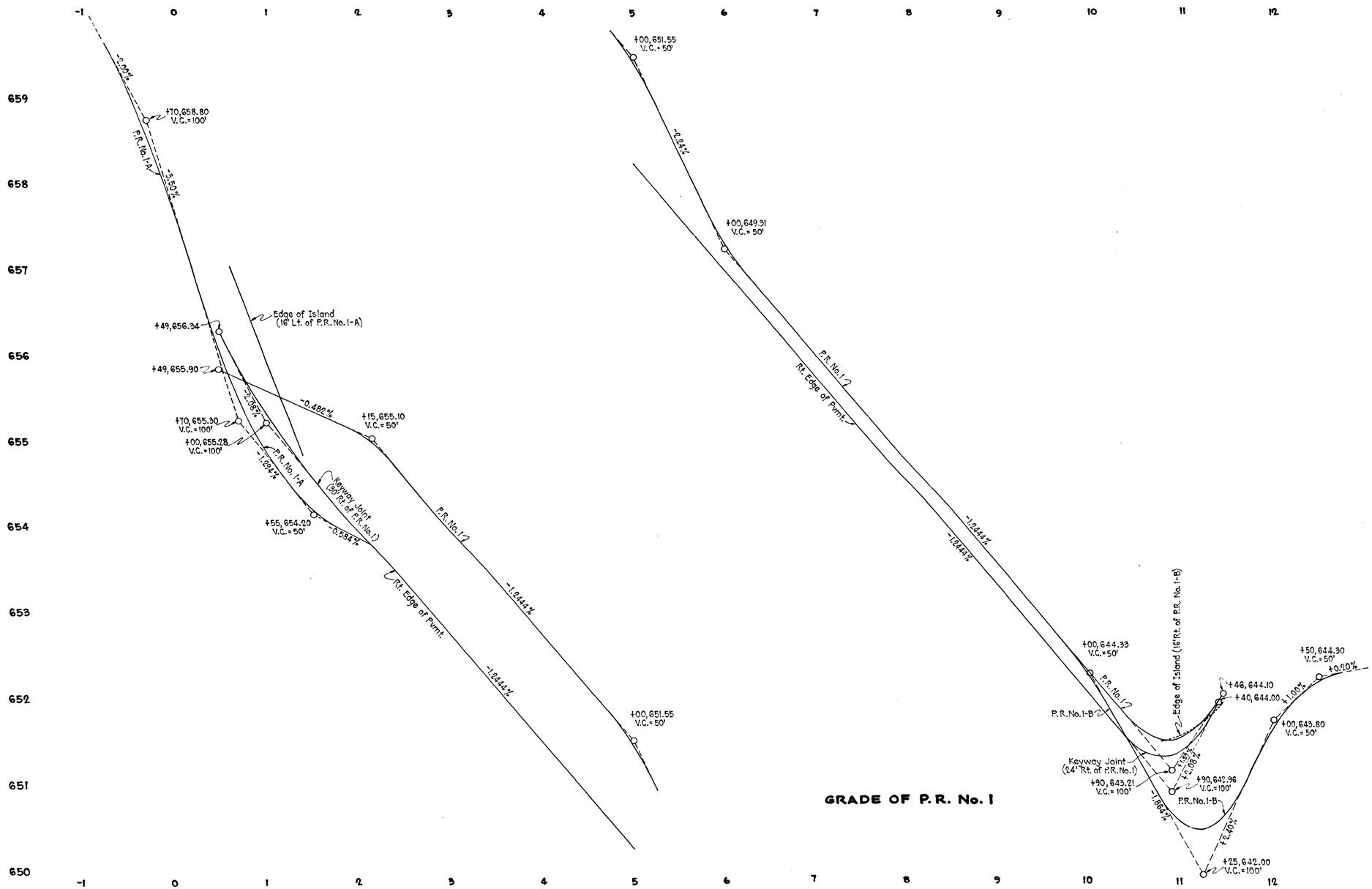


PROFILE OF PAVEMENT EDGES

WHB 11-13-62

F-875(8) A 42

F-
875(8) 1961 43 198
P.R. No. 1

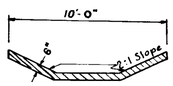


GRADE OF P.R. No. 1

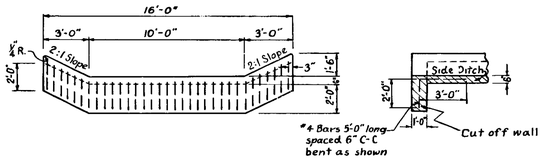
WHITE 11-13-62

F-875(8) P.R.#1 43

FEDERAL ROAD DIVISION NO.	STATE	F - PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875(8)	1961	43-A	198



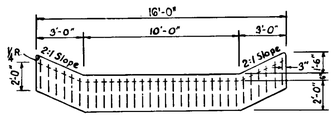
SECTION B-B



SECTION A-A

SECTION C-C

SECTION A-A



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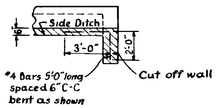

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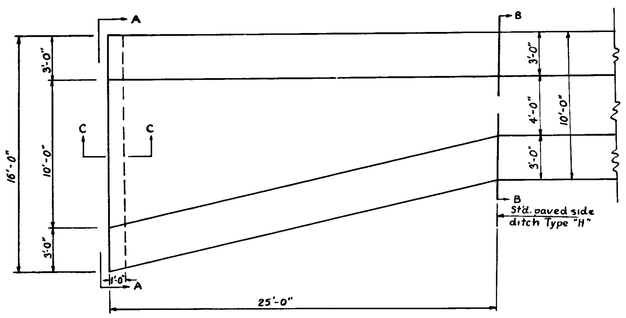
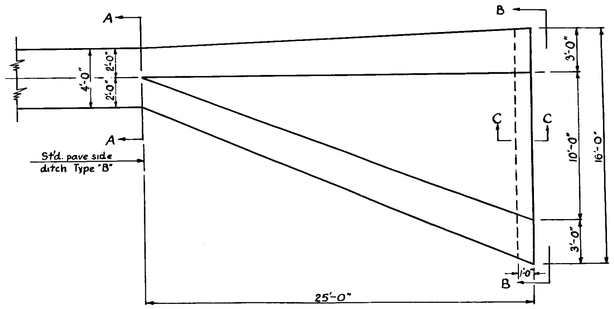


DETAIL OF SPECIAL PAVED SIDE DITCH TYPE "H"

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



DETAIL OF SPECIAL PAVED SIDE DITCH TYPE "B"

Scale 1/4" = 1'-0"

DETAILS

Scale : as shown

WSTD 11-13-62

Rev. 8-10-64 per R/W Dept.
& per Design Dept.

FEDERAL ROAD REGION NO.	STATE	F- PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875 (8)	1961	45	198

Revised 12-3-62 per R/W Dept

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	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	102+70											To be built under Separate Contract	
2	119+20											To be built under Separate Contract	
3	133+60											To be built under Separate Contract	
4	164+10											To be built in combination with Road Contract. See attached Bridge Plans.	
11	4+76 Lt.		Pipe in place									No changes Req'd.	
12	7+08 Lt.		Pipe in place									No changes Req'd.	
13	50+80'S-1-A'		Pipe in place									No changes Req'd.	
14	50+90'S-1-A'		Pipe in place									No changes Req'd.	
15	10+62 Rt.		Pipe in place									No changes Req'd.	
16	10+95 Rt.		Pipe in place									No changes Req'd.	
17	11+40 Lt.	15"	C.M. Pipe	60'					0.69			Remove Pipe in place	
18	13+00	10'	Std.R.C.Culvert (Slab Top Type under fill)	136'	15°	5'	715.0	714.5	5.46	228		136' of 123" × 81" Str. Plate Pipe Arch (Ga. 10 T & S. Ga. 8 Bot.) Remove Str. in Place	
19	14+00 Rt.	12"	C.M. Pipe	24'					0.58			Remove Pipe in place	
20	21+70	30"	Group "A" Pipe	150'		2'	717.5	717.0	2.49	25			
21	23+00		Std. Inlet Type E-7 and				717.9						
		12"	Group "A" Pipe	66'				717.6	0.29	9			
22	54+00'S-2-A'	15"	Group "A" Pipe	100'		2'			0.69	15			
23	54+00'Rt.S-2-A'	12"	C.M. Pipe	20'					0.58				
24	58+70'Rt.S-2-A'	12"	C.M. Pipe	24'					0.58			Remove Pipe in place	
25	28+50		Std. Inlet Type E-7 and				714.7						
		12"	Group "A" Pipe	74'				713.6	0.64	7			
26	29+75	120"	Group "A" Pipe	184'	15°	4'	704.0	703.2	6.42	442		(Str. Plates: Ga. No. 8 T & S., Ga. No. 7 Bottom.) Construct Inlet & Outlet Ditches	
27	33+00		Std. Inlet Type E-7 and				716.95						
		12"	Group "A" Pipe	74'				716.0	0.29	7			
28	39+00		Std. Inlet Type E-7 and				722.4						
		12"	Group "A" Pipe	72'				721.9	0.29	10			
29	42+50	24"	Group "A" Pipe	146'	15°	5'	722.0	721.4	3.75	23		Construct Outlet ditch	
30	44+53 Lt.	15"	Group "D" Pipe	54'		4'			0.69				
31	44+53 Rt.	15"	Group "D" Pipe	54'		4'			0.69				
32	45+00		Std. Inlet Type E-7 and				727.9						
		12"	Group "A" Pipe	76'	30°			726.4	0.64	8			
33	57+50		Std. Inlet Type E-7 and				727.0						
		12"	Group "A" Pipe	70'				726.4	0.29	11			
34	65+50		Std. Inlet Type E-7 and				718.4						
		12"	Group "A" Pipe	68'				717.9	0.29	12			
35	66+00 Rt.	18"	Group "D" Pipe	20'		2'			0.80				
36	66+00 Lt.	18"	Group "D" Pipe	26'		3'			0.80				
37	74+00		Std. Inlet Type E-7 and				703.7						
		12"	B.C.C.M. Pipe and 2-22 V2° Bends	98'				691.0	0.64	9			
38	81+28	72"	Group "A" Pipe	210'	15°	16'	672.5	668.0	4.31	173		(Strutted B.C.C.M. with P.I.)(Str. Plates: Ga. No. 10 T & S., Ga. No. 8 Bottom	
39	81+30 Rt.		Std. Spring Box and										
		15"	Group "A" Pipe and 1-15" on 72" Tee	10'						5		Connect to Str. No. 38	
40	82+00		Std. Inlet Type E-7 and				686.5						
		12"	B.C.C.M. Pipe and 2-22 V2° Bends	104'				668.1	0.64	11			
41	89+00		Std. Inlet Type E-7 and				671.4						
		12"	Group "A" Pipe	86'				670.2	0.64	16		NOT INCLUDED IN ROAD CONTRACT	
42	98+51.5 Lt.		Std. Inlet Type D-6 and				653.5						
		12"	Group "A" Pipe	44'				652.85		6		Connect to Str. No. 43	
43	98+41.5		Std. Inlet Type F-7 and				652.85						
		12"	Group "A" Pipe (to be plugged) and	6'									
		12"	B.C.C.M. Pipe and	120'				627.8	0.64	15			
			1-12" on 12" Tee (to be plugged) and 2-22 V2° Bends									NOT INCLUDED IN ROAD CONTRACT	
44	98+51.5 Rt.		Std. Inlet Type D-6 and				652.5					Increase A_1 by 12"	
		12"	B.C.C.M. Pipe	6'						1		Connect to Str. No. 43	
45	99+25 Lt.	24"	Group "D" Pipe	50'					1.24			NOT INCLUDED IN ROAD CONTRACT	
46	99+58 Rt.	30"	Group "D" Pipe	50'					2.49			NOT INCLUDED IN ROAD CONTRACT	
47	106+04 Lt.	24"	Group "D" Pipe	50'					1.24			NOT INCLUDED IN ROAD CONTRACT	
48	106+04 Rt.	24"	Group "D" Pipe	50'					1.24			NOT INCLUDED IN ROAD CONTRACT	
49	106+82.5 Lt.		Std. Inlet Type D-6 and				649.2						
		12"	Group "A" Pipe	44'				648.55		7		Connect to Str. No. 50	
50	106+92.5		Std. Inlet Type F-7 and				648.55						
		12"	Group "A" Pipe (to be plugged) and	6'									
		12"	B.C.C.M. Pipe and	112'				627.4	0.64	14			
			1-12" on 12" Tee (to be plugged) and 2-22 1/2° Bends									NOT INCLUDED IN ROAD CONTRACT	
51	106+82.5 Rt.		Std. Inlet Type D-6 and				650.2					Increase A_1 by 12"	
		12"	B.C.C.M. Pipe	6'						1		Connect to Str. No. 50	
52	110+45 Rt.		Std. Inlet Type D-6 and				653.4						
		12"	B.C.C.M. Pipe and 2-22 1/2° Bends	56'				632.3	0.64	2			
53	110+45 Lt.		Std. Inlet Type D-6 and				653.4						
		12"	B.C.C.M. Pipe and 2-22 1/2° Bends	56'				632.2	0.64	2			
53A	1+50 PR.*1	24"	Group "B" Pipe	190'		20'			1.24	20			
54	112+00		Std. Inlet Type E-7 and				653.55						
		12"	B.C.C.M. Pipe and 2-22 1/2° Bends	110'				633.3	0.64	14			
55	3+50 Rt.PR.*1		Std. Inlet Type A-3 and				649.2						
		12"	B.C.C.M. Pipe and 2-15° Bends	60'				634.5	0.29				
56	15+00 Rt.PR.*1		Std. Inlet Type A-3 and				646.0						
		12"	B.C.C.M. Pipe and 2-15° Bends	46'				635.3	0.29				
57	9+00 Rt.PR.*1		Std. Inlet Type A-3 and				642.4						
		12"	B.C.C.M. Pipe and 2-15° Bends	28'				637.8	0.29				
19A	16+50 Rt.	12"	Group "D" Pipe	24'					0.58				
19B	17+20 Rt.	12"	Group "D" Pipe	24'					0.58				

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	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.
57A	10+80 RL.PR.*1		Std. Curb turnout and										
			Paved Gutter and	9'									
			Paved Side Ditch Type "A"	15'									
57B	11+01 LL.PR.*1		Std. Curb turnout and										
			Paved Gutter and	9'									
			Paved Side Ditch Type "A"	13'									
58	113+00 Lt.		Std. Inlet Type D-6 and				654.8						
		12"	B.C.C.M. Pipe and	64'				633.7	0.64	2			
			2-22 1/2° Bends										
59	114+50 Rt.		Std. Inlet Type D-6 and				658.7						
		12"	B.C.C.M. Pipe and	68'				634.9	0.64	2			
			2-22 1/2° Bends										
60	115+50 Lt.		Std. Inlet Type D-6 and				659.75					Increase A_1 by 12"	
		12"	B.C.C.M. Pipe and	70'				636.4	0.64	2			
			2-22 1/2° Bends										
61	115+50		Std. Inlet Type E-7 and				660.65						
		12"	Group "A" Pipe	60'				659.75		6		Connect to Str. No. 60	
62	117+73 Rt.		Std. Inlet Type D-6 and				667.14						
		12"	B.C.C.M. Pipe and	76				639.8	0.64	2			
			2-22 1/2° Bends										
63	117+97 Lt.		Std. Inlet Type D-6 and				667.87						
		12"	B.C.C.M. Pipe and	76'				640.1	0.64	3			
			2-22 1/2° Bends										
63A	119+95	24"	Group "A" Pipe	188'					1.24	23		NOT INCLUDED IN ROAD CONTRACT	
64	120+53 Rt.		Std. Inlet Type D-6 and				675.5						
		12"	B.C.C.M. Pipe and	78'				650.7	0.64	2			
			2-22 1/2° Bends										
65	120+80		Std. Inlet Type F-7 and				675.9						
		12"	Group "A"	56'				675.5		8		Connect to Str. No. 64	
66	120+80 Lt.		Std. Inlet Type D-6 and				676.3						
		12"	Group "A" Pipe	50'				675.9		7		Connect to Str. No. 65	
67	123+00 Lt.	12"	Group "D" Pipe	72'		14'			0.58				
68	123+00 Rt.	12"	Group "D" Pipe	66'		13'			0.58				
69	123+50 Lt.		Std. Inlet Type D-6 and				684.9						
		12"	Group A Pipe	50'				684.4		7		Connect To Structure No. 69 A	
69A	SEE SHEET NO. 46											Increase A, by 12"	
70	123+50 Rt.		Std. Inlet Type D-6 and				663.9						
		12"	B.C.C.M. Pipe and	66'				660.8	0.64	2			
			2-22 1/2° Bends										
71	126+50 Lt.		Std. Inlet Type D-6 and				688.86						
		12"	B.C.C.M. Pipe and	84				656.7	0.64	3			
			2-22 1/2° Bends										
72	126+50 Rt.		Std. Inlet Type D-6 and				688.86						
		12"	B.C.C.M. Pipe and	76				663.2	0.64	3			
			2-22 1/2° Bends										
73	129+35	30"	B.C.C.M. Pipe with P.I. (Ga. No. 12)	288'		40'	652.0	651.0	5.76	37			
74	132+40		Std. Inlet Type F-7 and				688.8						
		12"	Group "A" Pipe	50'				688.2		7		Connect to Str. No. 75	
75	132+40 Rt.		Std. Inlet Type D-6 and				688.2					Increase A_1 by 12"	
		12"	B.C.C.M. Pipe and	52'				672.1	0.64	2			
			2-22 1/2° Bends										
76	132+90 Lt.		Std. Inlet Type D-6 and				688.64						
		12"	B.C.C.M. Pipe and	48'				673.2	0.64	2			
			2-22 1/2° Bends										
77	134+40 Rt.		Std. Inlet Type D-6 and				686.32						
		12"	B.C.C.M. Pipe and	46'				672.7	0.64	2			
			2-22 1/2° Bends										
78	134+90 Lt.		Std. Inlet Type D-6 and				685.4						
		12"	B.C.C.M. Pipe and	46'				672.3	0.64	2			
			2-22 1/2° Bends										
79	136+50		STD. INLET TYPE E-7 AND				681.35		0.29				
		12"	Group "A" Pipe	96'				667.4					
80	137+00 Lt.		GROUP "D" PIPE	42'		9'			0.58				
81	137+00 Rt.	12"	Group "D" Pipe	32'		5'			0.58				
82	138+00 Rt.		Std. Inlet Type D-6 and				677.6						
		12"	B.C.C.M. PIPE AND 2-22 1/2 BENDS	50'				662.3	0.64	5			
83	138+00 Lt.		Std. Inlet Type D-6 and				676.5					Increase A_1 by 12"	
		12"	B.C.C.M. Pipe and	58'				657.2	0.64	2			
			2-22 1/2° Bends										
84	139+00	36"	Group "A" Pipe	188'		17'	659.0	657.6	8.12	44			
85	140+50 Lt.		Std. Inlet Type D-6 and				670.0						
		12"	B.C.C.M. Pipe and	32'				662.9	0.64	1			
			2-22 1/2° Bends										
86	140+50 Rt.		Std. Inlet Type D-6 and				670.0						
		12"	B.C.C.M. Pipe and	28'				662.9	0.64	1			
			2-22 1/2° Bends										
87	146+00		Std. Inlet Type E-7 and				653.2						
		12"	Group "A" Pipe	88'	45°			652.8	0.29	7			
88	153+50		Std. Inlet Type E-7 and				638.94						
		12"	Group "A" Pipe	68'				637.8	0.29	8			
89	158+00		Std. Inlet Type E-7 and				637.9						
		12"	Group "A" Pipe	70'				634.6	0.64	13			
90	160+78	8"	Sewer Pipe	230'								(Remove Field Tile in place)(Connect to Field Tile in place)	
91	50+85'S-4-A'	30"	Group "D" Pipe	62					5.76				
92	166+00		Std. Inlet Type E-7 and										
		12"	Group "A" Pipe	70'					0.64	9			
93	170+00 Rt.	36"	Group "D" Pipe	22'		2'			3.14				
94	174+00		Std. Inlet Type E-7 and				637.9						
		12"	Group "A" Pipe	72'				637.2	0.29	11			
95	178+00		Std. Inlet Type E-7 and				639.5						
		12"	Group "A" Pipe	70'				638.0	0.64	7			
96	186+00		Std. Inlet Type E-7 and				664.45						
		12"	B.C.C.M Pipe and	90'				649.8	0.64	6			
			2-22 1/2° Bends	24'		1'							

*SEE SHEET 46
FOR 91A, 91B, 91C, 91D

OCTOBER 1960

F. PROJ. 875(8) | SHEET | FILE

STRUCTURE DATA

FEDERAL ROAD REGION NO.	STATE	F - PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	875 (8)	1961	46	198

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	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.
97	193+45	60"	Group "B" Pipe	310'	45°	21'	671.0	666.5	3.55	196			
			(Strutted B.C.C.M. with P.I.)										
			(Str. Plates: Ga. No. 12 T&S, No. 10 Bot)										
			Std. Inlet Type E-7 and				692.2						
98	194+00	12"	B.C.C.M. Pipe and	98'				676.8	0.64	7			
			2-22½° Bends										
			Std. Inlet Type E-7 and				720.0						
99	202+00	12"	Group "A" Pipe	68'				718.2	0.64	16			
100	205+05	24"	Group "A" Pipe	180'	15°	14'	727.5	712.2	2.49	311		Construct Inlet and Outlet Ditches	
101	210+00		Std. Inlet Type E-7 and				747.72						
		12"	B.C.C.M. Pipe and	94'				734.9	0.64	7			
			2-22½° Bends										
102	210+55	24"	Group "A" Pipe	206'	30°	14'	740.8	732.2	3.75	74		Construct Inlet and Outlet Ditches	
103	47+50 Rt. S-5-A	12"	C.M. Pipe	24'					0.58				
104	50+90 S-5-A	15"	Group "D" Pipe	52'					0.69			Remove Pipe in place	
[illegible]	49+10 S-5-A	15"	Group "D" Pipe	44'					0.69				
[illegible]	[illegible] S-5-A	12"	C.M. Pipe	20'					0.58				
[illegible]	[illegible]		Std. Inlet Type E-7 and				764.27						
[illegible]	[illegible]	12"	Group "A" Pipe	72				672.8	0.29	3			
[illegible]	[illegible]		Std. Inlet Type E-7 and				764.82						
[illegible]	[illegible]	12"	B.C.C.M. Pipe and	72'				761.5	0.64	6			
[illegible]	[illegible]		2-22½° Bends										
[illegible]	[illegible]	6"	Drain Tile	14'								(Remove Field Tile in place)(Connect to Field Tile in place)	
111	[illegible]	30"	Group "A" Pipe	216'	30°	18'	749.7	745.2	5.78	35		Construct Inlet and Outlet Ditches	
111	[illegible]		Std. Inlet Type E-7 and				762.66						
		12"	B.C.C.M. Pipe and	82'	15°			755.3	0.64	6			
			2-22½° Bends										
111	49+10 S-6-A	15"	Group "D" Pipe	56'					0.69			Remove Pipes in place	
112	48+56 Rt. S-6-A	12"	C.M. Pipe	20'					0.58				
113	244+00		Std. Inlet Type E-7 and				759.49						
		12"	Group "A" Pipe	70'				758.7	0.29	9			
114	246+68	48"	Group "A" Pipe	252'	45°	12'	748.9	746.3	2.83	78		Construct Inlet and Outlet Ditches	
115	248+00		Std. Inlet Type E-7 and				759.73						
		12"	B.C.M. Pipe and	80'				752.1	0.64	6			
			2-22½° Bends										
69A	123+50		STD. INLET TYPE F-7 AND				684.4						
		12"	GROUP "A" PIPE	50'				683.9		6		CONNECT TO STRUCTURE NO. 70	
91A	163+45 Lt.	6"	Perf. C.M. Pipe	54'									
91B	163+65 Rt.	6"	Perf. C.M. Pipe	54'									
91C	164+50 Lt.	6"	Perf. C.M. Pipe	54'									
91D	164+70 Rt.	6"	Perf. C.M. Pipe	54'									

STRUCTURE NUMBER	LOCATION	DESCRIPTION SIZE	DESCRIPTION	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.

OCTOBER 1960

F- PROJ.	LINE	SHEET	FILE
875 (8)		46	

ESTIMATE OF QUANTITIES

Rev. 8-10-64 per Design Dept.

FEDERAL ROAD PROJECT NO	STATE	PROJ. NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	F-875(8)	1961	47	198

GRADING

ITEM	UNIT	QUANTITY
		440,285
COMMON EXCAVATION	CYS	~~432,471~~
SOLID ROCK EXCAVATION	CYS	
UNCLASSIFIED EXCAVATION	CYS	
SPECIAL BORROW	CYS	434,441
OVERHAUL	CYS	51,729
ADDED HAUL	UNITS	344
GRADING	MI	
WATERWAY EXCAVATION	CYS	876
PEAT EXCAVATION	CYS	16,556
PEAT EXCAVATION 15 TO 25FT	CYS	
PEAT EXCAVATION 25 TO 35FT	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	
DYNAMITE	LBS	
2" CASED TEST HOLES	LFT	
4" CASED TEST HOLES	LF	
6" CASED TEST HOLES	LFT	
2" CASED DYNAMITE HOLES	LFT	
4" CASED DYNAMITE HOLES	LFT	
6" CASED DYNAMITE HOLES	LFT	
GRADE "B" SPECIAL BORROW	CYS	30,115
PAVEMENT REMOVAL	SYS	4840
SALVAGED PAVEMENT	SYS	
SURFACE REMOVAL	SYS	
BREAKING PAVEMENT	SYS	
CURB REMOVAL	LFT	
CENTER CURB REMOVAL	LFT	
COMB. CURB & GUTTER REMOVAL	LFT	
LIP GUTTER REMOVAL	LFT	
GUTTER REMOVAL	LFT	
WALK REMOVAL	SYS	
STEPS REMOVAL	SYS	
GUARD RAIL SALVAGE	LFT	
RETAINING WALL REMOVAL	LFT	
RETAINING WALL REMOVAL	CYS	
PAVED SIDE DITCH REMOVAL	LFT	54
REMOVAL OF PRESENT STRUCTURE	LUMP SUM	
REMOVAL OF PRESENT STRUCTURE	LUMP SUM IN CLR.	
TREE REMOVAL	CYS	
SALVAGED ROAD MATERIAL		

PAVEMENT

ITEM	UNIT	QUANTITY
CEMENT CONCRETE BASE 8"	SYS	1368
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	
CLASS IV CONCRETE PATCHES	SYS	
BITUM. MIXTURE FOR PATCHES	TONS	
CLASS I BITUM. PATCHES	TONS	
CLASS II BITUM. PATCHES	TONS	
CLASS III BITUM. PATCHES	TONS	
CLASS IV BITUM. PATCHES	TONS	
HOT ASPHALTIC CONCRETE BASE WIDENING	TONS	
BIT. COATED BLENDED AGGREGATE BASE WIDENING	TONS	
BITUM. COATED AGGREGATE BASE WIDENING	TONS	
CONCRETE WIDENING	SYS	
FILLING CRACKS AND JOINTS	TONS	
BITUMINOUS MATERIAL FOR UNDERSEAL	TONS	
DRILLING HOLES	EACH	
BITUM. MATERIAL FOR PRIME	TONS	0.6
COVERING AGGREGATE	TONS	1,149
BITUM. MATERIAL FOR SEAL	TONS	121
HOT ASPHALTIC CONCRETE BASE	TONS	
HOT ASPHALTIC CONCRETE BINDER (1)	TONS	
HOT ASPHALTIC CONCRETE SURFACE TYPE " "	TONS	
BITUM. COATED AGGREGATE BASE	TONS	
BITUM. COATED AGGREGATE BINDER (1)	TONS	
BITUM. COATED AGGREGATE SURFACE	TONS	
BITUM. COATED BLENDED AGGREGATE BASE	TONS	
BITUM. COATED BLENDED AGGREGATE BINDER (1)	TONS	
TYPE " " BITUM. COATED BLENDED AGGREGATE SURFACE	TONS	
TYPE " " BITUM. COATED BLENDED AGGREGATE SURFACE	TONS	
COMPACTED AGGREGATE BASE	TONS	
WATER	MGAL	
SUBBASE, TYPE - "I" or "II"	CYS	28,039
SALVAGED ROAD MATERIAL FOR SUBBASE	CYS	25,856
COMPACTED AGGR. SHOULDER	TONS	~~10,228~~
PLANT-MIXED CONTROLLED MOISTURE AGGREGATE BASE	TONS	
CALCIUM CHLORIDE	TONS	35.8
AGGREGATE FOR SHOULDER DRAINS	TONS	

ITEM	UNIT	QUANTITY
REINF. CEMENT CONCRETE PAVEMENT (9")	SYS	1337764
REINF. CEMENT CONCRETE PAVEMENT (")	SYS	
REINF. CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINF. CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. REINF. CEMENT CONCRETE PAVEMENT (")	SYS	
PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
H.E.S. PLAIN CEMENT CONCRETE PAVEMENT (")	SYS	
PRIVATE DRIVE PAVEMENT	SYS	
COMMERCIAL DRIVE PAVEMENT	SYS	
CEMENT CONCRETE FOR CROSSOVER	SYS	
CONTRACTION JOINTS, TYPE "D"	LFT.	30097
1 INCH PREFORMED EXP. JOINT WITH LOAD TRANSFER	LFT	1672
1 INCH PREFORMED JOINT FILLER	LFT	1105
REINFORCING STEEL FOR PAVEMENT	LBS	32,450
ANCHOR BOLTS	EACH	
AGGREGATE FOR BITUM. SURFACE TREATMENT	TONS	
BITUM. MATERIAL FOR BITUM. SURFACE TREATMENT	TONS	
COVERING AGGREGATE FOR BITUM. SURFACE TREATMENT	TONS	
BITUM. MIXTURES FOR CROSSOVER	TONS	
BITUM. MIXTURE FOR APPROACHES (2)	TONS	1,108
COMPACTED AGGREGATE BASE FOR APPROACHES (3)	TONS	4,455
SALVAGED ROAD MATERIAL FOR APPROACHES	CYS	
SALVAGED ROAD MATERIAL FOR FRONTAGE ROADS	CYS	
SALVAGED ROAD MATERIAL FOR BASE	CYS	
SALVAGED SURFACE MATERIAL FOR APPROACHES	CYS	
(2) INCLUDES FOR TEMP. RUNAROUND	TONS	541
(3) INCLUDES FOR TEMP. RUNAROUND	TONS	2,406
(1) INCLUDES FOR WEDGE AND LEVELING	TONS	
(1) INCLUDES FOR ROAD APPROACHES	TONS	
(1) INCLUDES FOR PRIVATE DRIVES AND MAILBOX APPROACHES	TONS	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
6 INCH HAND LAID RIPRAP	SYS	
12 INCH HAND LAID RIPRAP	SYS	5
GROUTED RIPRAP	SYS	
PLACING HAND LAID RIPRAP 6"	SYS	
PLACING HAND LAID RIPRAP 12"	SYS	
PRECAST CONCRETE RIPRAP	SYS	
SLOPEWALL	SYS	
CONCRETE SLOPEWALL (")	SYS	
STANDARD CIP GUTTER	LFT	6560
PAVED SIDE DITCH, TYPE "A"	LFT	11,514
PAVED SIDE DITCH, TYPE "B"	LFT	638
PAVED SIDE DITCH, TYPE "C"	LFT	320
PAVED SIDE DITCH, TYPE "H"	LFT	825
SPECIAL P.S.D. TYPE "B"	LFT	30
SPECIAL P.S.D. TYPE "H"	LFT	30
INTEGRAL CONCRETE CURB	LFT	70
INTEGRAL CONCRETE CURB, TYPE "B"	LFT	4868
INTEGRAL CONCRETE CURB, TYPE "C"	LFT	283
CONCRETE CURB	LFT	
CONCRETE CURB TYPE "B"	LFT	
PAVED GUTTER	LFT	18
COMB. CONC. CURB AND GUTTER	LFT	
RECONSTRUCTED CONC. CURB	LFT	
RECONSTRUCTED COMB. CONC. CURB AND GUTTER	LFT	
RESET CURB	LFT	
CONCRETE CENTER CURB	LFT	
CONCRETE CENTER CURB	SYS	
CONCRETE CENTER CURB, TYPE " "	LFT	
CONCRETE CENTER CURB, TYPE "B"	SYS	61
CONCRETE CENTER CURB, TYPE " "	LFT	
CONCRETE CENTER CURB, TYPE " "	SYS	
STRAIGHT BEAM GUARD RAIL	LFT	9315
DOUBLE-FACED STRAIGHT BEAM GUARD RAIL	LFT	532.5
SHOP-CURVED BEAM GUARD RAIL	LFT	
SHOP-CURVED DOUBLE-FACED BEAM GUARD RAIL	LFT	
RESETTING GUARD RAIL	LFT	
WIRE-ROPE GUARD RAIL	LFT	
RESET WIRE-ROPE GUARD RAIL	LFT	
GUARD RAIL	LFT	3045
GUARD RAIL POST	EACH	
GUARD FENCE	LFT	
RESET GUARD FENCE	LFT	
GUIDE POST, TYPE "A"	EACH	146
GUIDE POST, TYPE "B"	EACH	6
RESET GUIDE POST	EACH	
DELINEATORS, TYPE " "	EACH	
DELINEATORS, TYPE " "	EACH	
BARRICADES, TYPE "A"	EACH	2
BARRICADES, TYPE "B"	EACH	8
TYPICAL SIGN STANDARDS	EACH	32
CONCRETE HEADER, TYPE "A"	LFT	
CONCRETE HEADER, TYPE "B"	LFT	
RECONSTRUCTED CONC. HEADER	LFT	
FENCE (FARM FIELD TYPE)	LFT	46036
FENCE (CHAIN LINK TYPE)	LFT	
GATES (SINGLE)	EACH	
GATES (DOUBLE)	EACH	
CEMENT CONCRETE SIDEWALK	SYS	
RECONSTRUCTED CONC. SIDEWALK	SYS	
RE-LAID SIDEWALK	SYS	
EXPANSION JOINT FOR SIDEWALK	LFT	
CROSSWALK	SYS	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
RIGHT-OF-WAY MARKERS	EACH	49
RESET RIGHT-OF-WAY MARKERS	EACH	
MONUMENTS, TYPE "B"	EACH	2
MONUMENTS, TYPE " "	EACH	
MONUMENTS, RE-ESTABLISHED	EACH	
CASTINGS ADJUSTED TO GRADE, MONUMENTS	EACH	
BENCH-MARK POST	EACH	
RESETTING BENCH-MARK POST	EACH	1
RAILROAD CROSSING SIGN, TYPE "A"	EACH	
RAILROAD CROSSING SIGN TYPE "B"	EACH	
ADVANCE RAILROAD WARNING SIGN	EACH	
BITUMINOUS CURB	LFT	
BITUMINOUS SHOULDER	TONS	
BITUMINOUS MATERIAL FOR PRIME	TONS	
BITUMINOUS MATERIAL FOR SEAL	TONS	
COVERING AGGREGATE	TONS	

MISCELLANEOUS

ITEM	UNIT	QUANTITY
FURNISHING AND INSTALLING CONDUIT " "	LFT	
HAND HOLE FOR STREET	EACH	
SNU ALLEY	EACH	
HAND HOLE FOR SIDEWALK	EACH	
SIGNAL BASE, TYPE "A"	EACH	
SIGNAL BASE, TYPE "B"	EACH	
SODDING	SYS	64,400
FURNISHING AND PLACING AGRICULTURAL LIMESTONE	TONS	168.4
FURNISHING AND PLACING FERTILIZER	TONS	25.3
FURNISHING AND PLACING SEED	LBS	5894
FURNISHING AND APPLYING MULCHING MATERIAL	TONS	210.5
PLAIN SEEDING	SYS	
MULCHED SEEDING	SYS	
STEEL FOR RECONSTRUCTED EXPANSION JOINT	LBS	
FILLET WELD	LFT	
MAINTAINING TRAFFIC	LUMP SUM	
TRAFFIC SIGNAL INSTALLATION	LUMP SUM	

STRUCTURE SUMMARY

PIPE LINEAL FEET

KIND \ MIN. AREA SQ.FT	123" x 81" 10 Ga.	8 Ga.
GAGE STRUCTURAL PLATE		
GAGE C.M. PIPE ARCH **		
GROUP G1		
GROUP G2		
GROUP G3		
GROUP G4		
GROUP H1		
GROUP H2		
GROUP H3		
GROUP H4		
CORR. METAL PIPE ARCH		
STR. PLATE PIPE ARCH	136'	
B.C.C.M. PIPE ARCH		
R.C.C.M. PIPE ARCH WITH PAVED INVERT		
REINF. ELLIP CONC.		

**GAGE WHEN HEAVIER THAN REQUIRED IN STANDARD SPECIFICATIONS

STRUCTURE SUMMARY (CONT)

PIPE LINEAL FEET

KIND \ SIZE	4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	120"	30"
GAGE C.M. PIPE **																	*				12
GAGE STRUCTURAL PLATES															127'6 10 Ga.		101'6 8 Ga.			87'6 7 Ga.	
GROUP A					1848	116			532	366	188		252				210			184	
GROUP B									190						310						
GROUP C																					
GROUP D					212	260	46			62	22										
GROUP E																					
GROUP F																					
PERFORATED C.M.		216																			
REINFORCED CONCRETE																					
EXTRA STRENGTH REINF. CONC.																					
HEAVY DUTY REINF CONC.																					
VITRIFIED CLAY																					
CORRUGATED METAL					132	60	20														
BIT. COATED CORR. METAL					2224																
BIT. COATED CORR METAL WITH PAVED INVERT																				288	
SEWER		1750	1980	1,000																	
R.C. OR V.C. SEWER																					
R.C. OR CONC. SEWER																					
CONC. SEWER																					
REINF. CONC. SEWER																					
I.T. CLAY SEWER																					
DRAIN TILE		1,014	500	500																	

*STRUTTED
**GAGE WHEN HEAVIER THAN REQUIRED IN STANDARD SPECIFICATIONS

			CASTINGS ADJUSTED TO GRADE EACH
PIPE: GROUP "K" FOR SUBSURFACE DRAINAGE (6")	23,756	LIN FT	
PIPE: B.C.C.M. FOR SUBSURFACE DRAINAGE (6")	1,626	LIN. FT.	
AGGREGATE FOR SUBSURFACE DRAINAGE	6,563	CYS	

ITEM	UNIT	QUANTITY
CONCRETE CLASS "D" FOR STRUCTURES	CYS	113.76
REINFORCING STEEL FOR STRUCTURES	LBS	
CONCRETE CLASS "F" FOR INTEG. CURB WALK	CYS	19.1

AUTO DRAINAGE GATES		
SIZE	HEAD	EACH

CATCH BASINS	
TYPE	EACH

PIPE CATCH BASIN	
SIZE	EACH

INLETS			
TYPE	EACH	TYPE	EACH
A-3	3		
D-6	25		
E-7	27		
F-7	3		

RECONSTRUCTED	
	LIN FT
MANHOLE	
CATCH BASIN	
INLET	

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

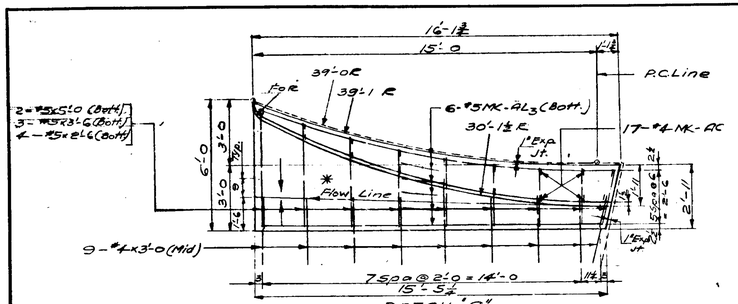
REINF. CONCRETE SPRING BOXES
EACH
1

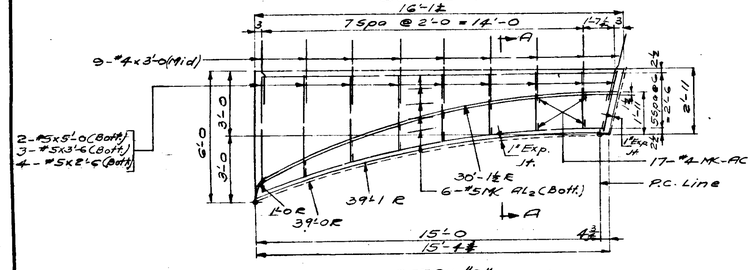
MANHOLES	
TYPE	EACH

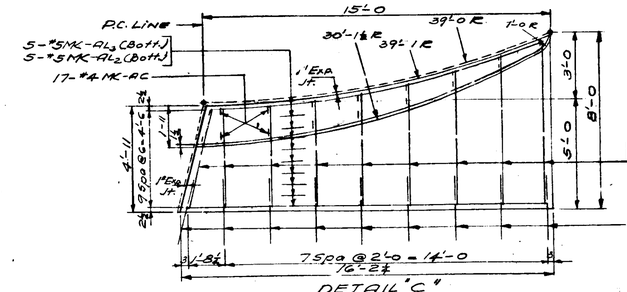
THIS 1960

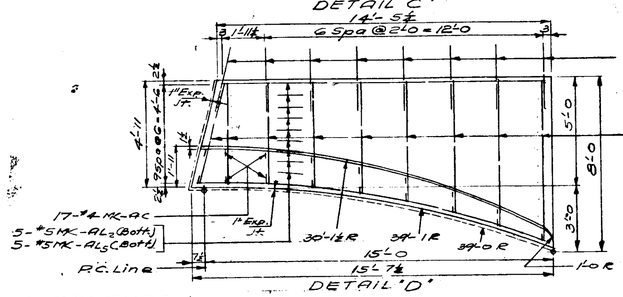
BRIDGES OVER 20' SPAN

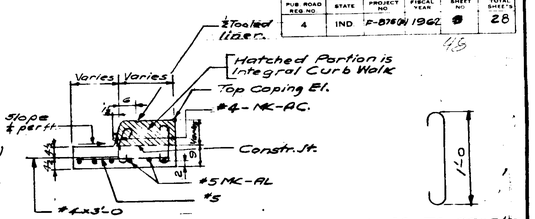
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-875(3)	1962	9	28





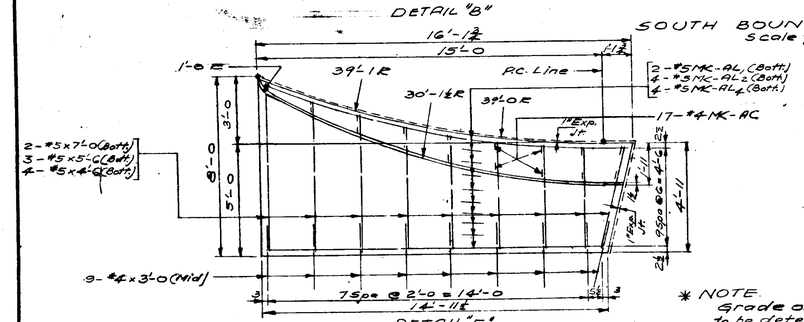


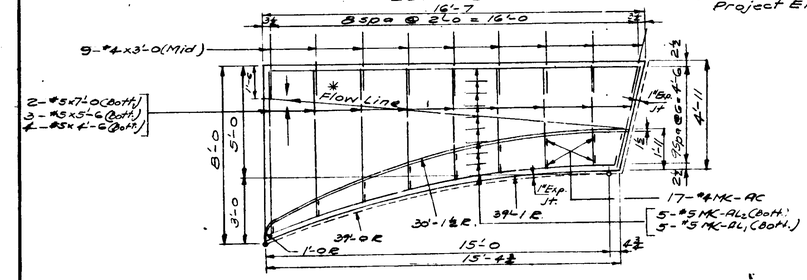




SECTION A-A (TYP.)
Scale ½"=1'-0

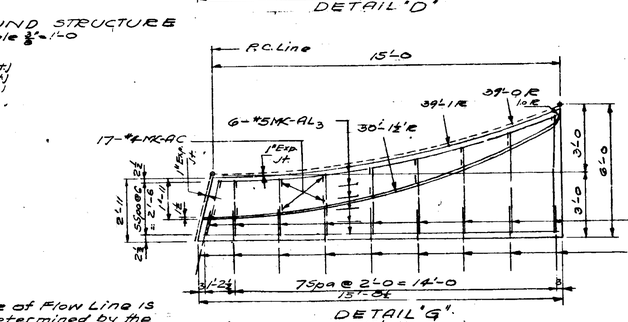
SOUTH BOUND STRUCTURE
Scale ½"=1'-0

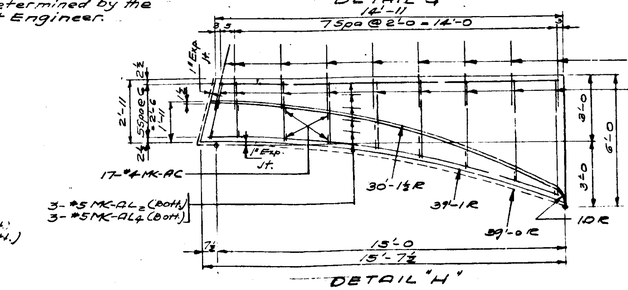




NORTH BOUND STRUCTURE
Scale ½"=1'-0

* NOTE
Grade of Flow Line is to be determined by the Project Engineer.





16'-0	#5MK-AL x 16'-7
15'-6	#5MK-AL2 x 16'-1
15'-0	#5MK-AL2 x 15'-7
14'-6	#5MK-AL2 x 15'-1
14'-0	#5MK-AL x 14'-7

BILL OF MATERIALS
SOUTH BOUND STRUCT.

REINFORCING STEEL			
Size & Mark	No. of bars	Length	Weight
#5MK-AL1	16	16'-7	
#5MK-AL2	11	15'-7	
#5MK-AL3	5	14'-7	
#5	4	7'-0	
#5	6	5'-6	
#5	4	4'-0	
#5	8	3'-6	
#5	6	3'-6	
#5	8	2'-6	
	Total	#5	686#
#4MK-AC	68	2'-0	
#4	35	3'-0	
	Total	#4	163#
	Total	Steel	849#
CONCRETE			
R.C. Pavement 9"			
DETAIL "A"		6.65 cu.yds.	
" "B"		6.6 " "	
" "C"		10.0 " "	
" "D"		9.7 " "	
Total		32.95 cu.yds.	
Integral Curb Walk			
DETAIL "A"		0.8 cu.yds.	
" "B"		0.8 " "	
" "C"		0.7 " "	
" "D"		0.7 " "	
Total		3.0 cu.yds.	

BILL OF MATERIALS
NORTH BOUND STRUCT.

REINFORCING STEEL			
Size & Mark	No. of bars	Length	Weight
#5MK-AL1	7	16'-7	
#5MK-AL2	12	16'-1	
#5MK-AL3	6	15'-7	
#5MK-AL4	6	15'-1	
#5	4	7'-0	
#5	6	5'-6	
#5	4	5'-0	
#5	8	4'-6	
#5	6	3'-6	
#5	8	2'-6	
	Total	#5	692#
#4MK-AC	68	2'-0	
#4	36	3'-0	
	Total	#4	163#
	Total	Steel	855#
CONCRETE			
R.C. Pavement 9"			
DETAIL "E"		10.15 cu.yds.	
" "F"		10.3 " "	
" "G"		6.5 " "	
" "H"		8.5 " "	
Total		35.45 cu.yds.	
Integral Curb Walk			
DETAIL "E"		0.75 cu.yds.	
" "F"		0.75 " "	
" "G"		0.7 " "	
" "H"		0.7 " "	
Total		2.90 cu.yds.	

NOTES
1. For Reinforcing Bar Notes see Br. Std. C1.
2. For additional R.C. Br. Approach Details see Br. Std. M3.
3. For additional Details of Integral Curb Walk see Br. Std. M2.
4. See General Plan (Drwg. 52) for location.
5. R.C. Bridge Approach Widening to be constructed by Road Contractor.

R.C. BRIDGE
APPROACH WIDENING DETAILS
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE:- AS NOTED

JULY 31 1961

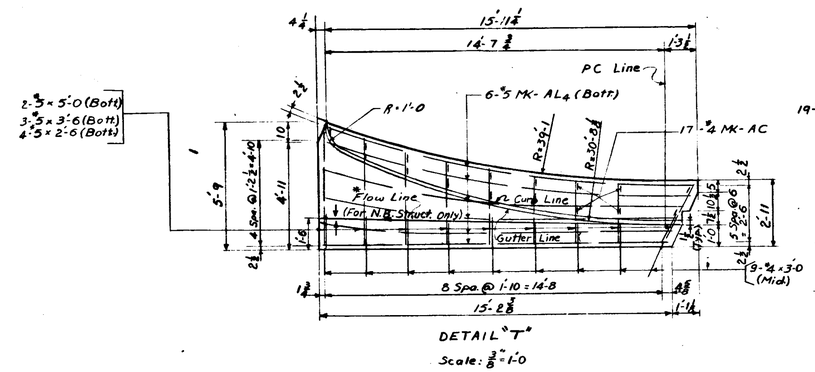
RECOMMENDED FOR APPROVAL:- C.J.R. Rummer
ENGINEER OF BRIDGE DESIGN

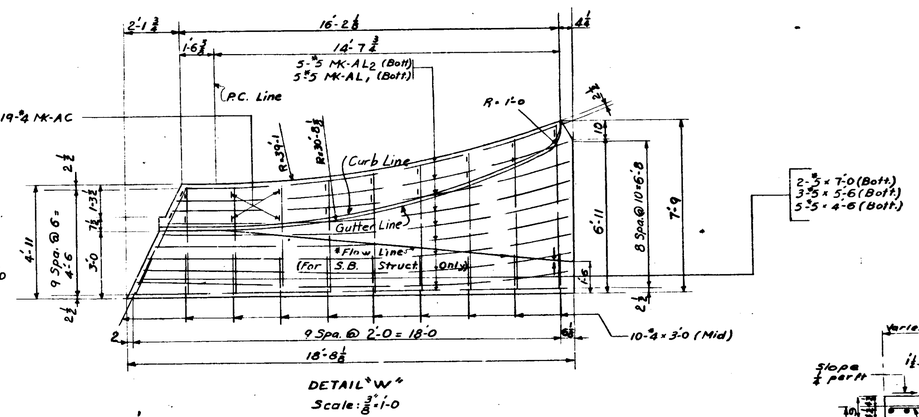
DRAWING:- OF:
PROJECT:- F-875(3)
BRIDGE CONTRACT NO.
BRIDGE FILE:- 31-Eg-2317

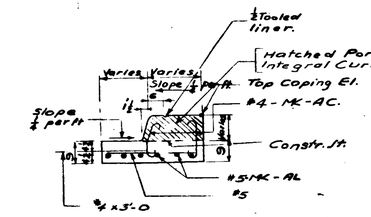
DESIGNED CKD.
DRAWN C.B. 4/24/61 CKD IFH 4/25/61
TRACED CKD.

BRIDGES OVER 20' SPAN

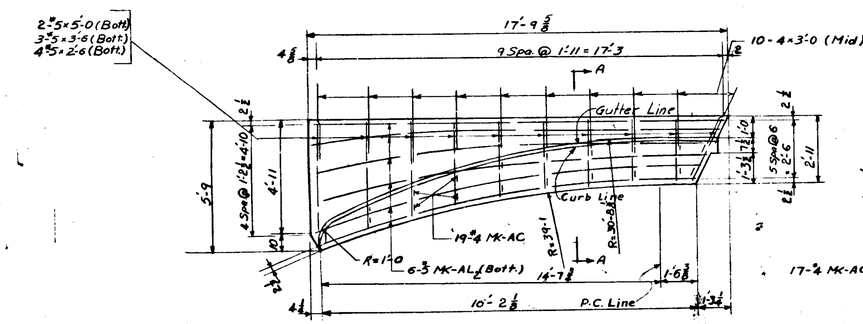
PUB ROAD REG NO.	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND	FG-875(4)	1961	6	23

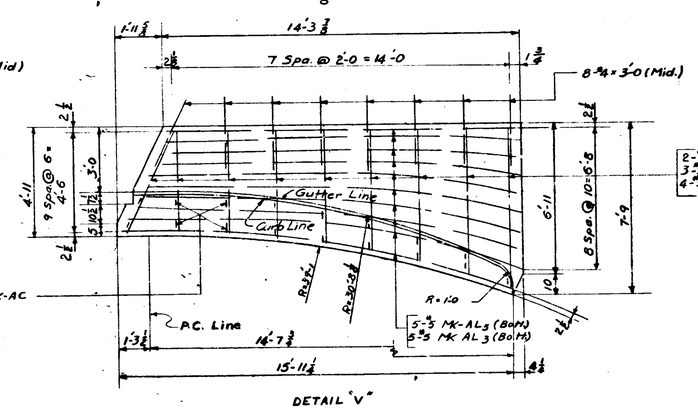




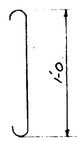


SECTION A-A (TYP.)
Scale 1" = 1'-0

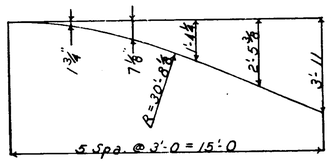




* NOTE:
Grade of Flow Line is to be determined by the Project Engineer.



17'-8	#5 MK-AL1 x 18'-2
16'-5	#5 MK-AL2 x 17'-0
15'-2	#5 MK-AL3 x 15'-9
15'-0	#5 MK-AL4 x 15'-7
14'-2	#5 MK-AL5 x 14'-9



OFFSETS TO GUTTER LINE
No Scale

BILL OF MATERIALS FOR
SOUTH BOUND STRUCTURE
NORTH BOUND STRUCTURE SAME

REINFORCING STEEL			
Size & Mark	No. of Bars	Length	Weight
591	104	20'-6	
#5 MK-AL1	5	18'-2	
#5 MK-AL2	11	17'-0	
#5 MK-AL3	5	15'-9	
#5 MK-AL4	9	15'-7	
#5 MK-AL5	5	14'-9	
#5	11	30'-0	
#5	11	25'-9	
#5	4	7'-0	
#5	6	5'-6	
#5	4	5'-0	
#5	9	4'-6	
#5	6	3'-6	
#5	9	2'-6	
	Total #5		3.573 #
#4 MK-AC	72	2'-0	
#4	37	3'-0	
	Total #4		170 #
	Total	Steel	3.749 #
CONCRETE			
R.C. PAVEMENT (9")		188-0.59 yds	
INTEGRAL CURB WALK		3.7 cu yds	

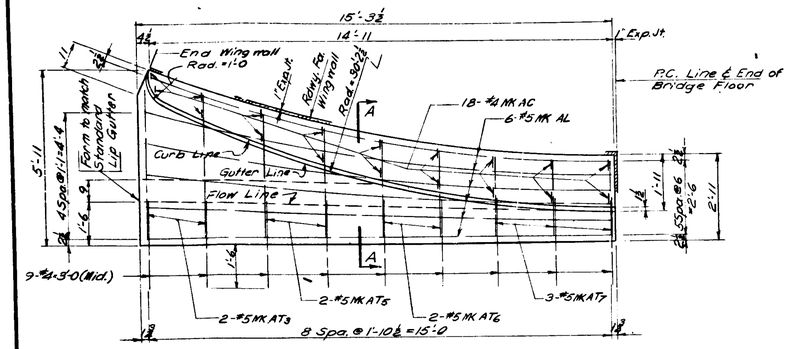
Note: Quantities include R.C. Bridge Approach Pvmt. for Details, See Br. Std. M3. Bridge Approach not included in Bridge Contract.

R.C. BRIDGE
APPROACH WIDENING DETAILS
STATE HIGHWAY DEPARTMENT OF INDIANA

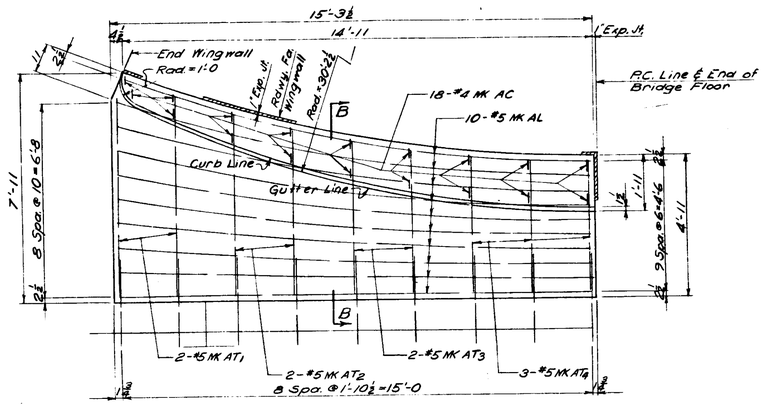
SCALE:- AS NOTED
JUNE 13, 1961
RECOMMENDED FOR APPROVAL:- C.R. Rummer
ENGINEER OF BRIDGE DESIGN

DRAWING:- OF
PROJECT:- FG-875(4)
BRIDGE CONTRACT NO.
BRIDGE FILE:- 31-59-2318

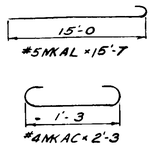
DESIGNED ... CKD ...
DRAWN W.A. 5/31/61 CKD WJS 5-11-61
TRACED ... CKD ...



DETAIL WING "A"



DETAIL WING "C"



BRIDGES OVER 20' SPAN

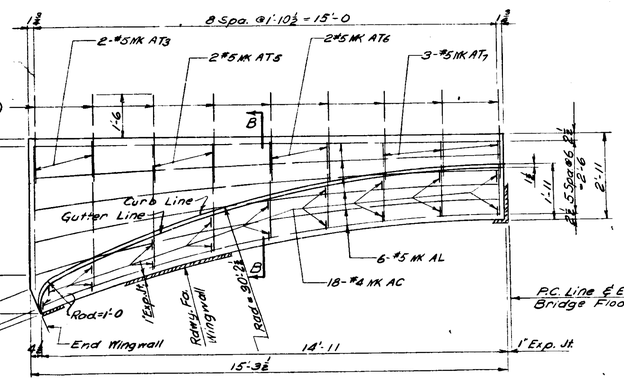
PUB. ROAD REG. NO.	STATE	PROJECT NO.	FED. AL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	F-875(2) 196	42	51	

BILL OF MATERIALS
NORTHBOUND LANE
(SOUTHBOUND LANE SAME)

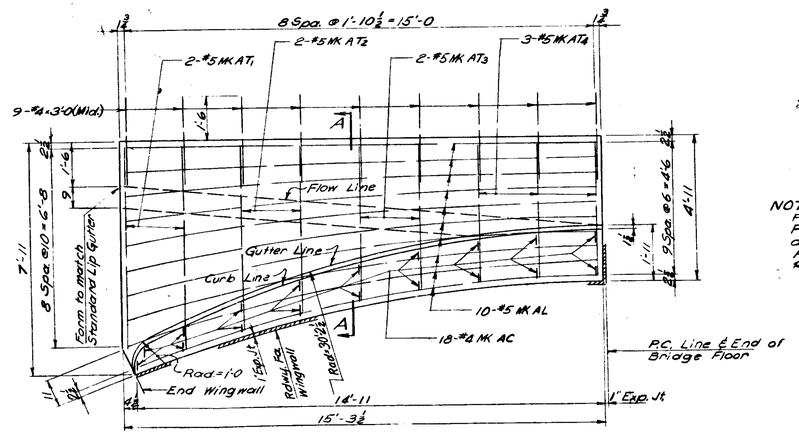
REINFORCING STEEL			
MARK SIZE	NUMBER BARS	LENGTH	WEIGHT
591	104	20'-6	
#5	11	27'-6	
#5	11	23'-6	
#5 MK AL	32	15'-0	
#5 MK AT1	4	7'-0	
#5 MK AT2	4	5'-9	
#5 MK AT3	8	5'-0	
#5 MK AT4	6	4'-8	
#5 MK AT5	4	3'-9	
#5 MK AT6	4	3'-0	
#5 MK AT7	6	2'-8	
	Total	#5	3478#
#4 MK AC	72	2'-3	
#4	36	3'-0	
	Total	#4	180#
TOTAL STEEL			3658#

CONCRETE	
R.C. Bridge Approach	
20'-6 Pvmt's	118.4 Sq. Yds.
Wing "A"	6.7 Sq. Yds.
Wing "B"	6.7 Sq. Yds.
Wing "C"	10.1 Sq. Yds.
Wing "D"	10.1 Sq. Yds.
Total R.C. Br. Approach	152.0 Sq. Yds.
Integral Curb Walk	
Ave. .73 Cu. Yds.	2.9 Cu. Yds.

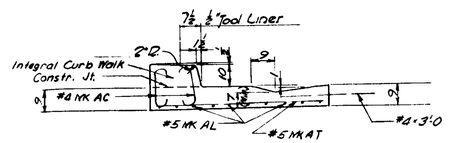
NOTES:-
For Reinforcing Bar Notes See Bridge Std. C1.
For remaining Approach Details See General Plan and Bridge Std. M3.
For location of Wings "A", "B", "C" and "D" See General Plan.
R.C. Bridge Approach not in Bridge Contract.



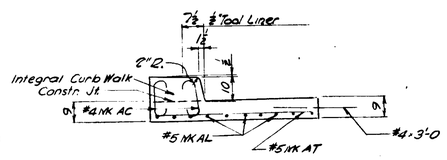
DETAIL WING "B"



DETAIL WING "D"



SECTION A-A



SECTION B-B

DESIGNED ____ C.K.D.
DRAWN WTM 9-29-61 C.K.D. RWB 10-27-61
TRACED ____ C.K.D.

APPROACH DETAILS
STATE HIGHWAY DEPARTMENT OF INDIANA

SCALE:- ½" = 1'-0

JAN. 25, 1962

RECOMMENDED FOR APPROVAL:- C.A. Rummler
ENGINEER OF BRIDGE DESIGN

DRAWING:- OF
PROJECT:- F-875(2)
BRIDGE CONTRACT NO.
BRIDGE FILE:- 31-R9-4857