

CONTRACT NO. R-7859

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301	STD. DETOUR SIGN, SHEET 22		

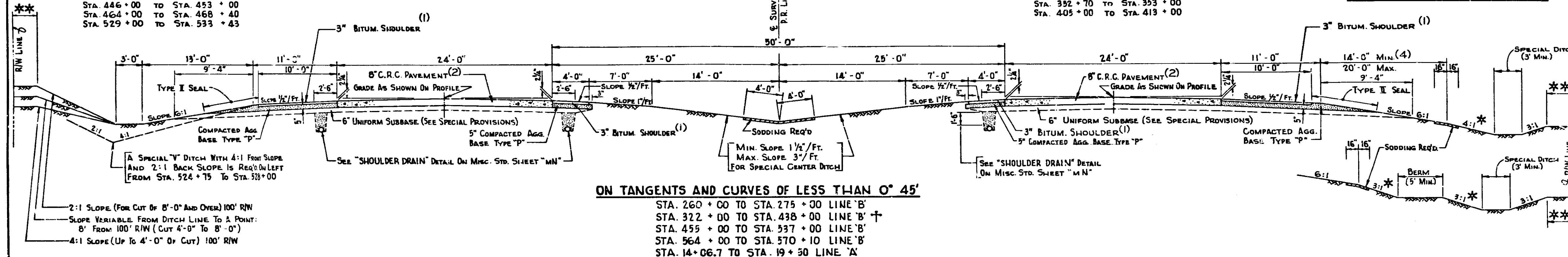
FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-1010		3	242

SPECIAL 2:1 FILL SLOPES ON LEFT

STA. 420 + 00 TO STA. 424 + 00
STA. 446 + 00 TO STA. 453 + 00
STA. 464 + 00 TO STA. 468 + 40
STA. 529 + 00 TO STA. 533 + 43

SPECIAL 2:1 FILL SLOPES ON RIGHT

STA. 317 + 00 TO STA. 330 + 00
STA. 392 + 70 TO STA. 393 + 00
STA. 405 + 00 TO STA. 413 + 00



ON TANGENTS AND CURVES OF LESS THAN 0° 45'

STA. 260 + 00 TO STA. 275 + 30 LINE 'B'
STA. 322 + 00 TO STA. 438 + 00 LINE 'B' +
STA. 455 + 00 TO STA. 537 + 00 LINE 'B'
STA. 564 + 00 TO STA. 570 + 10 LINE 'B'
STA. 14 + 06.7 TO STA. 19 + 50 LINE 'A'

SPECIAL 2:1 FILL SLOPES ON LEFT

STA. 447 + 00 TO STA. 449 + 40

SPECIAL 2:1 BACK SLOPES ON LEFT

STA. 292 + 00 TO STA. 293 + 00

SPECIAL 3:1 BACK SLOPES ON RIGHT

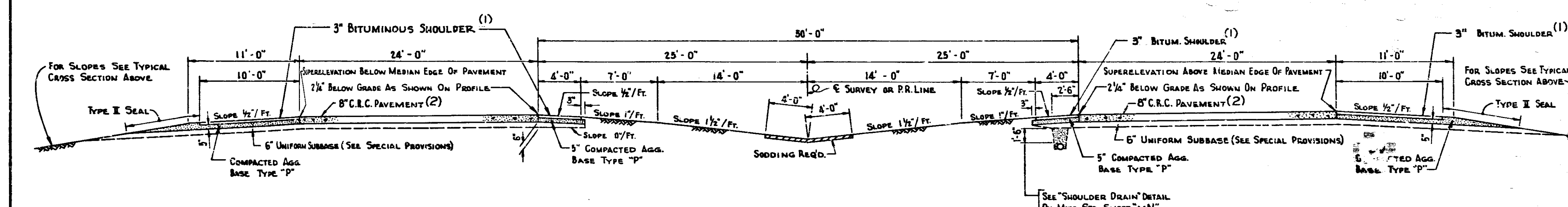
STA. 541 + 00 TO STA. 543 + 40

SHOWING EXISTING PAVEMENT (3)

STA. 254 + 18 TO STA. 260 + 00 LINE 'B'
STA. 275 + 00 TO STA. 322 + 00 LINE 'B'
STA. 438 + 00 TO STA. 455 + 00 LINE 'B' (REVERSE)
STA. 537 + 00 TO STA. 564 + 00 LINE 'B'

NOTE:

- 1:1 SLOPE, UP TO 5' OF FILL
- 3:1 SLOPE, ABOVE 5' OF FILL
- 2:1 SLOPE, WHERE R/W CONDITIONS WARRANT FILL TO BE DIFFERENCE IN ELEVATION BETWEEN SHOULDER POINT AND TOE OF SLOPE.
- * MIN. DISTANCE 3' FOR 100' R/W (200' TOTAL)
- (1) 3" BITUMINOUS SHOULDERS COMPOSED OF EITHER:
(a) 90% SYD. H.A.C. SURFACE TYPE 'B' ON 240% SYD. H.A.C. BASE OR
(b) 90% SYD. HOT A.E. SURFACE TYPE III ON 240% SYD. HOT A.E. BASE
- (2) FOR C.R.C. PAVEMENT DETAILS SEE SHEET No. 2
- (3) WHERE EXISTING PAVEMENT IS TO REMAIN IN PLACE ON THE RIGHT OF THE SURVEY LINE, VIEW THE ABOVE SECTION OPPOSITE HAND. SEE PLAN SHEET No. 25 FOR CROSSOVER CONSTRUCTION BACK OF STA. 254 + 18 LINE 'B'
- (4) GUARD RAIL IS REQUIRED WHEN 6:1 SLOPE ENDS 25' FROM OUTSIDE EDGE OF PAVEMENT. SEE DETAIL ON THIS SHEET.
- (5) WHERE BITUMINOUS SHOULDER IS CALLED FOR IN THE PLANS A MAILBOX APPROACH WILL NOT BE REQUIRED.



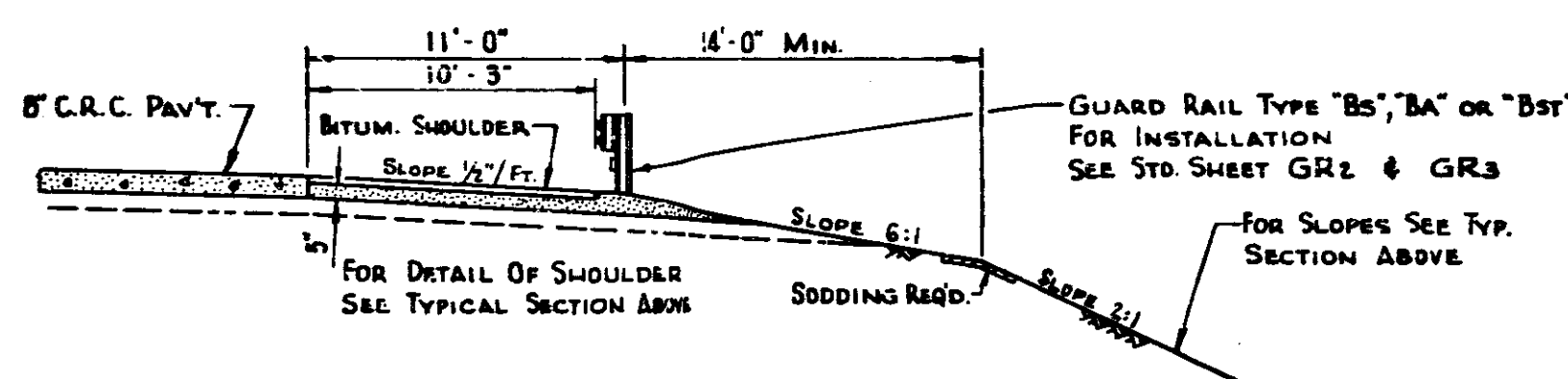
ON CURVES TO THE LEFT OF MORE THAN 0° 45'

CURVES TO THE RIGHT REVERSED

STA. 0 + 00.0 TO STA. 14 + 06.7 LINE 'A'

SPECIAL 2:1 FILL SLOPES ON RIGHT

STA. 409 + 16.76 TO STA. 413 + 00



GUARD RAIL DETAIL - LEFT

STA. 526 + 50 TO STA. 533 + 13

SHOULDER TREATMENT AT RAILROAD BRIDGE +

SEE BRIDGE LAYOUT SHEET No. 34
BRIDGE FILE NO. 31-R-237B FOR DETAILS

TYPICAL CROSS SECTIONS

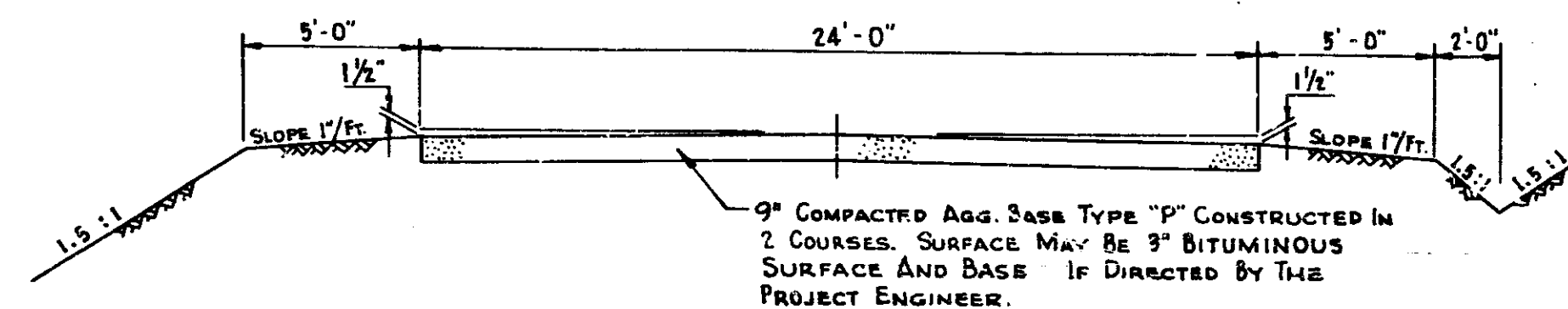
SCALE: 3/16" = 1' - 0"

APPROVED: *W. B. Baker* 6-14-68
ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION

F	PROJ.	LINE	SHEET	OF
	F-1010		3	

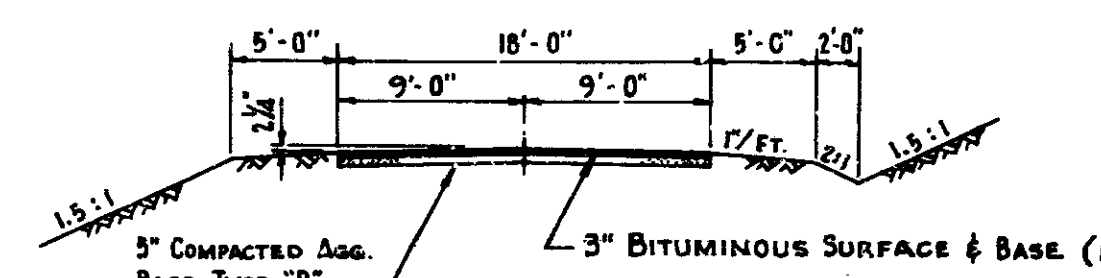
FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-70(10)	1964	4	242

REV. 6-30-69 ACCESS ROAD AND BITUM. SURFACE ADD.



TYPICAL SECTION FOR TEMPORARY RUNAROUND

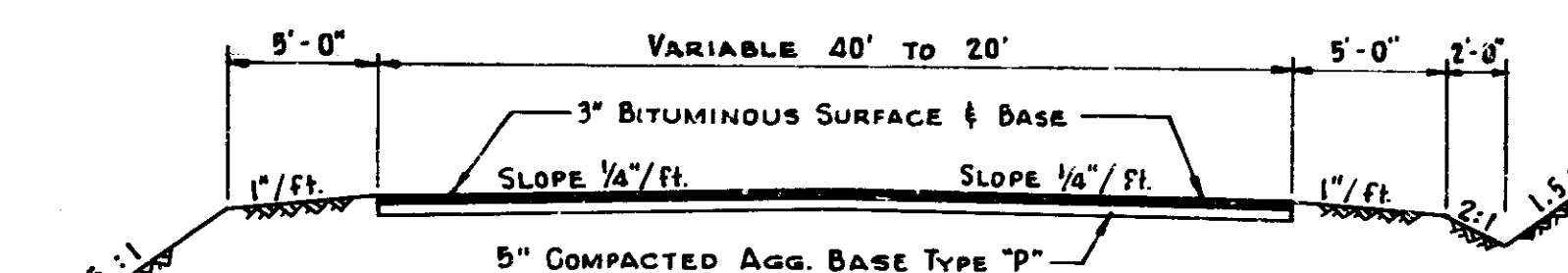
SCALE: 1/4" = 1'-0"



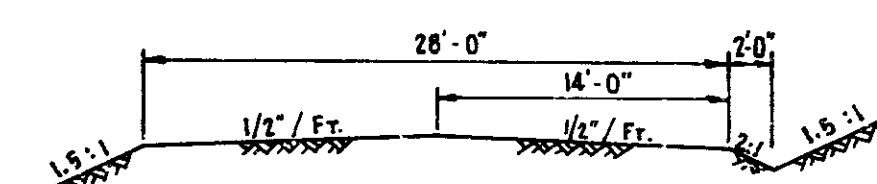
18' BITUMINOUS ACCESS OR FRONTAGE ROAD

(ACCESS ROADS X, 5A, 6, 7, 8 & 9)
(FRONTAGE ROAD 2)

SCALE: 1/8" = 1'-0"
ACCESS ROAD NO. 4 SAME AS ABOVE
WITH 8" COMPACTED AGG. BASE TYPE "P"



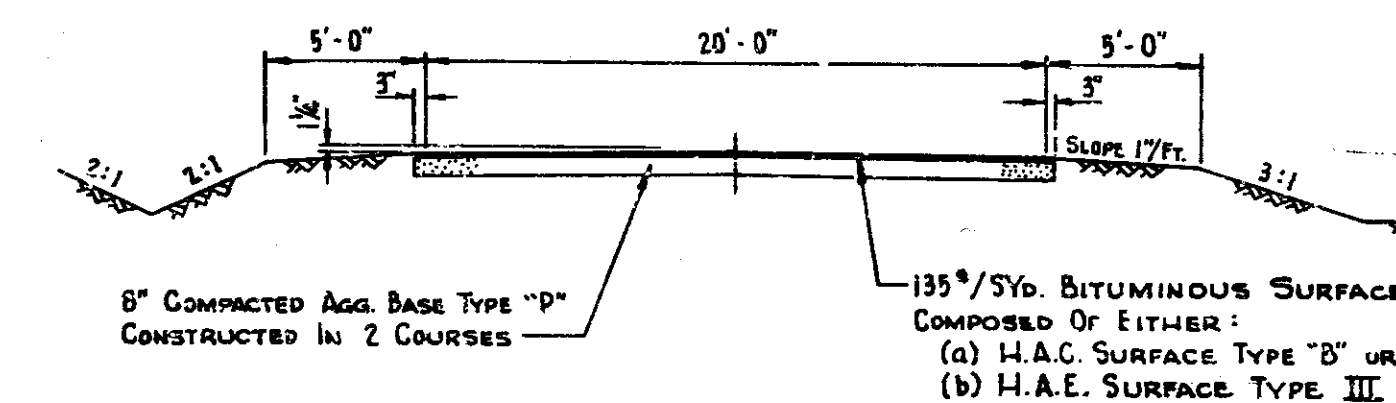
ACCESS ROAD 4A



28' GRADED ONLY ACCESS ROAD

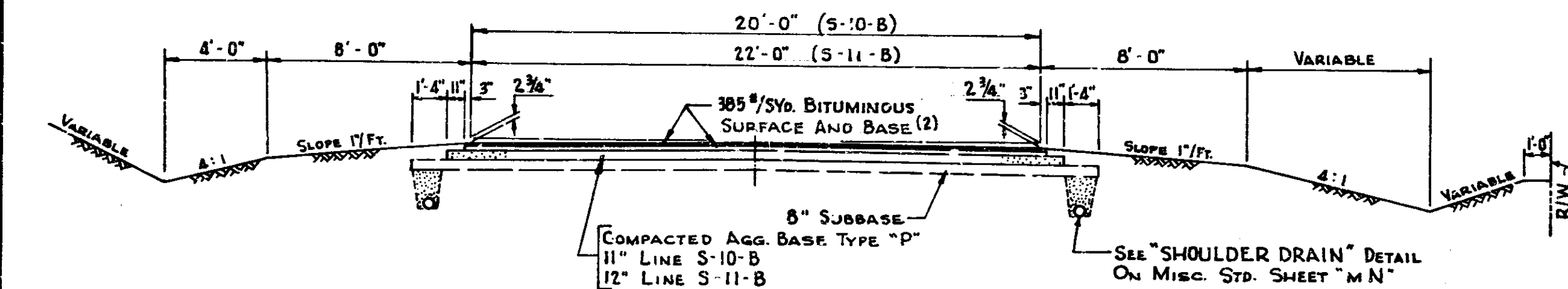
(ACCESS ROADS 1, 3 & 4)

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



TYPICAL SECTION FOR P.R. LINE NO. 2

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



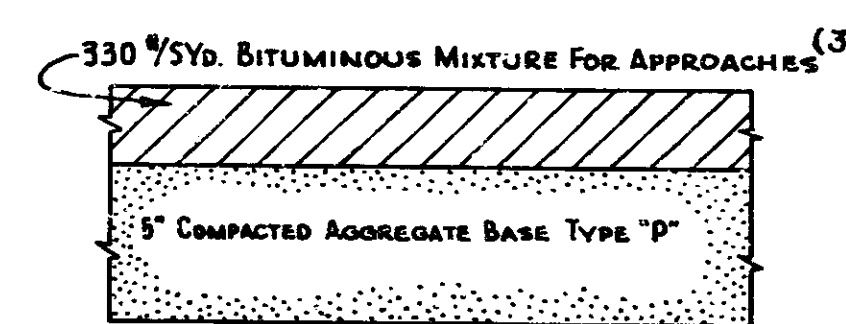
TYPICAL SECTION FOR S.R. 218

(LINE S-10-B & LINE S-11-B)

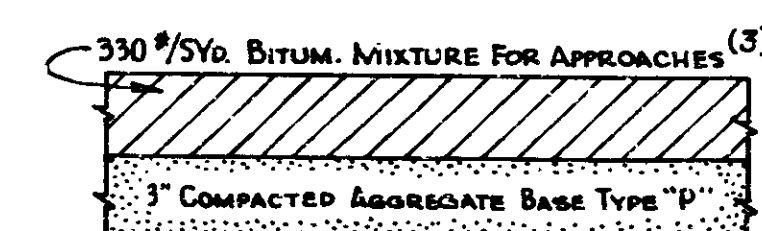
SCALE: 1/4" = 1'-0"

(2) 90% SYD. HOT ASPHALTIC CONC. SURFACE TYPE "B"
ON 295% SYD. HOT ASPHALTIC CONC. BASE OR
90% SYD. HOT A.E. SURFACE TYPE III
ON 295% SYD. HOT A.E. BASE

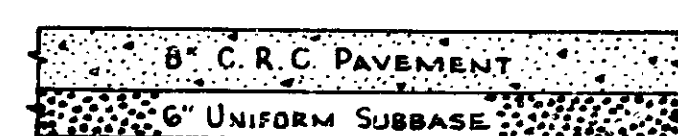
(3) WHERE BITUMINOUS SHOULDER IS CALLED FOR IN
THE PLANS A MAILBOX APPROACH WILL NOT BE REQUIRED.



PUBLIC ROAD APPROACH AND COMMERCIAL DRIVE



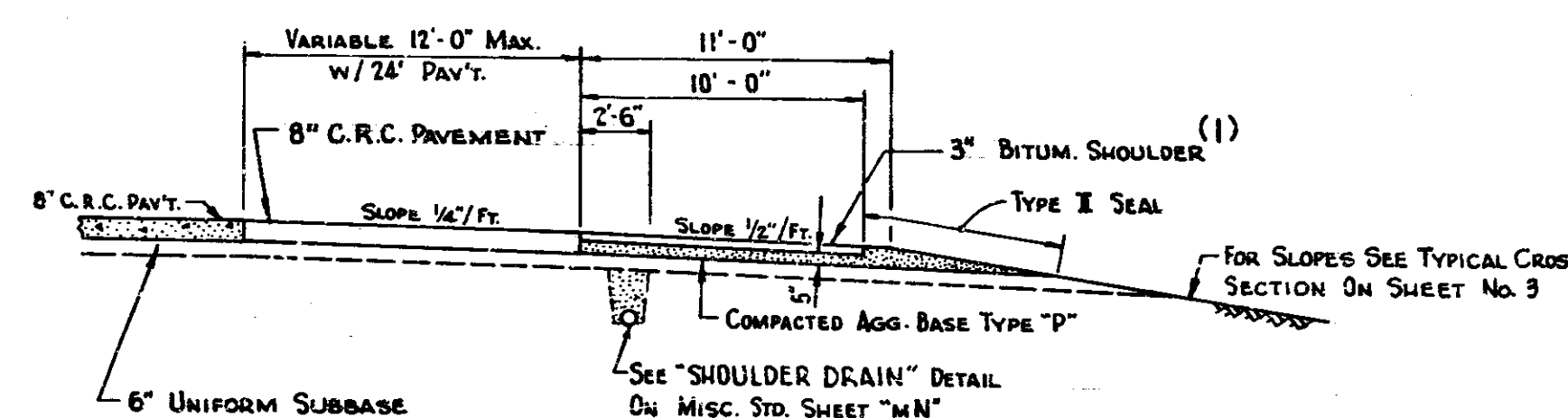
PRIVATE DRIVE AND MAILBOX APPROACH



COUNTY ROAD AND COMMERCIAL CROSSOVER

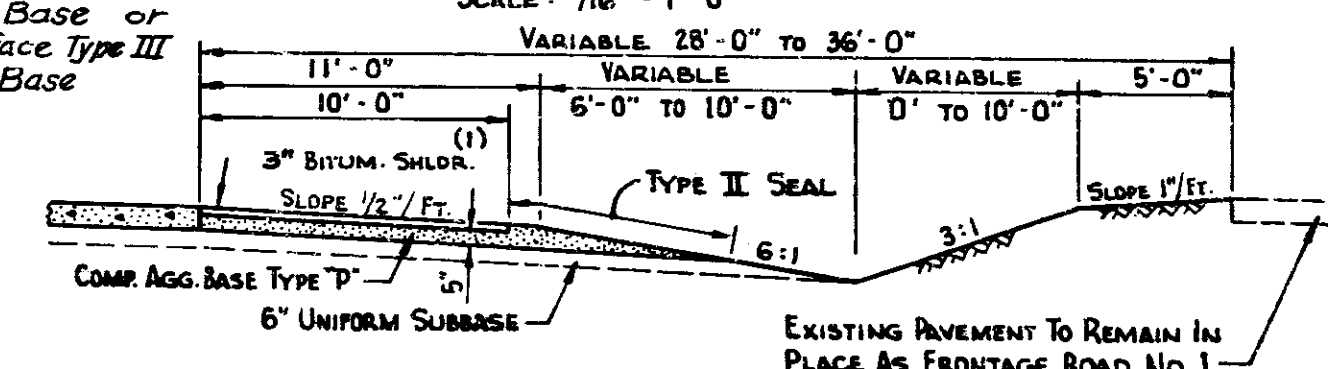
PRIVATE DRIVE CROSSOVER

6" PLAIN CEMENT CONCRETE
SEE STD. SHEET "MJ"



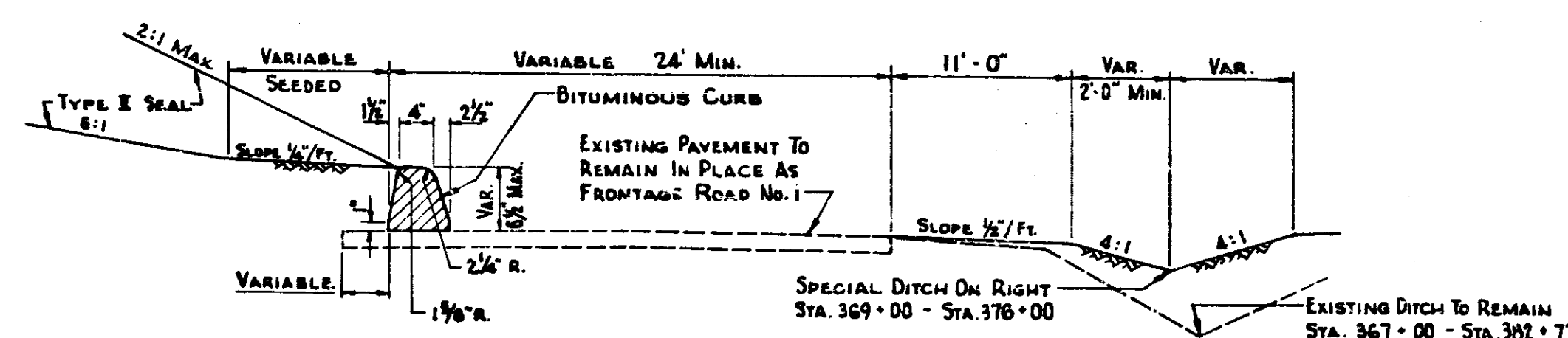
ADDITIONAL LANE SECTION

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



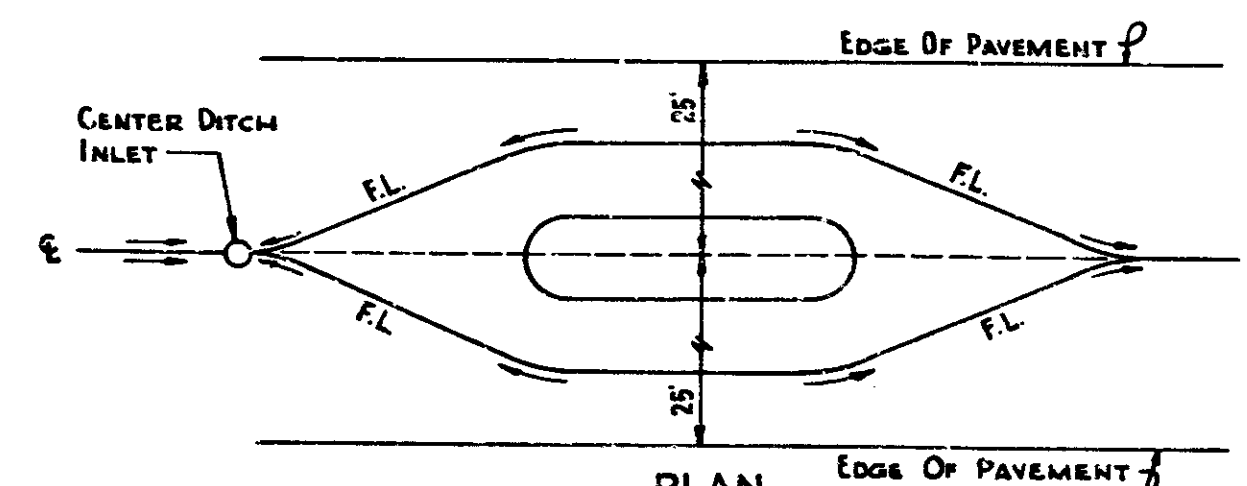
TYPICAL SECTION ON RIGHT STA. 380+50 TO STA. 382+77 P.R. NO. 1

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



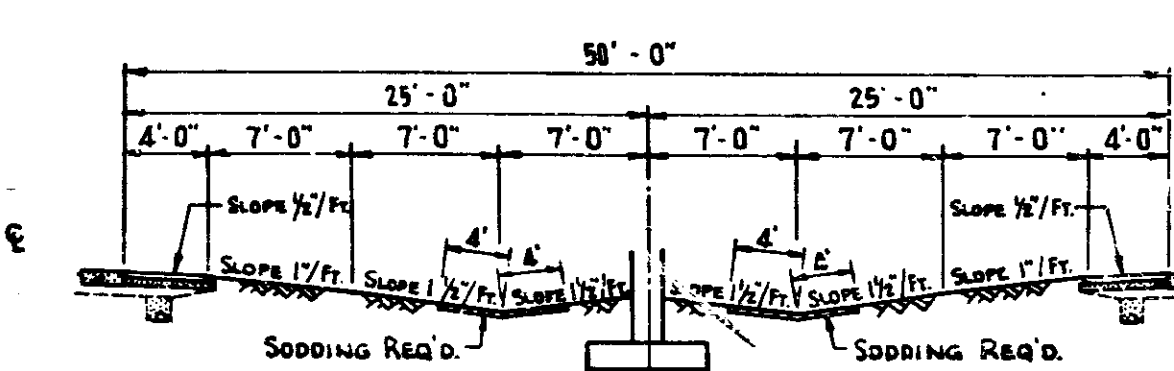
TYPICAL SECTION ON RIGHT STA. 368+50 TO STA. 380+50 P.R. NO. 1

NO SCALE



PLAN MEDIAN DITCH TREATMENT WHERE CENTER PIER IS CONSTRUCTED

NO SCALE



SECTION

TYPICAL CROSS SECTIONS

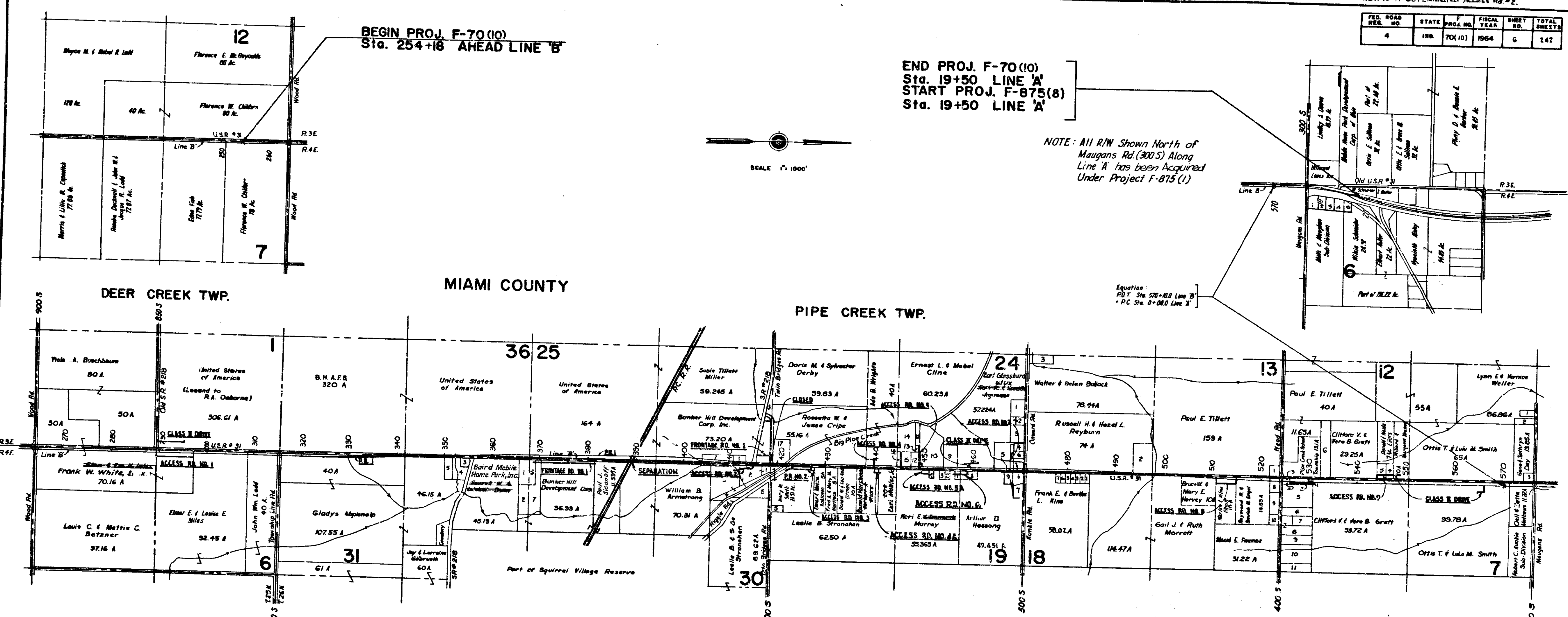
SCALE: AS NOTED

APPROVED *W.H. Perkins* 6-14-68
ENGINEER OF ROAD DESIGN - INDIANA STATE HIGHWAY COMMISSION

PROJ.	LINE	SHEET	FILE
F-70(10)		4	

Rev. 10-17-68, Eliminated Access Rd. #2.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(10)	1964	6	242



SECTION 31 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Clifford E. & Martha M. Hutchcroft	2.59
2	Do	2.51
3	Tremarco Corp.	0.962
4	Donald H. & Blanche H. Mack	3.036
5	Rancy & Ozark B. McCurtain	2

SECTION 30 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Paul B. & Dorothy E. Bully	0.807
2	Do	3.95
3	Do	8.94
4	Barnick Maps	6.95
5	Clifford E. & Martha M. Hutchcroft	1.98
6	Do	4.88

SECTION 25 T26N, R3E

PARCEL	OWNER	ACREAGE
1	ETHEL JONES	0.57
2	State of Indiana	
3	State of Indiana	

SECTION 24 T26N, R3E

PARCEL	OWNER	ACREAGE
1	Perry D. & Margaret M. Whigler	34
2	Ross C. & Anne M. Morgan	1456
3	Robert & Margaret Swanson	2.916
4	Wm. R. Biddle	1
5	Do	4.385
6	Don W. & Flo L. Carson	1
7	Clarence L. & Thelma Biddle	108
8	C. Clinton & Barry L. Fisher	12.37
9	Do	1
10	Cecil & Laura Turnpugh	1.448
11	Do	12
12	Jerry D. & Rita H. King	0.275
13	Carris Wayne & Linda Barber	51
14	Fred Blue	16
15	Don L. & Wilma E. Long	0.803
16	Wm. H. Meyer	4.84

SECTION 19 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Bernard H. Seagorhath	0.592
2	Harold Turner	0.53
3	Do	0.53
4	Logan & Mary Ann Adams	0.53
5	Wayne W. & Betty L. Smith	2.515
6	Edwin L. & Frances C. Mello	1.5
7	Lois E. & John F. Smith	2.124
8	Wesley A. & Louise H. Smith	1.00

SECTION 18 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Cherene L. & Thelma V. Biddle	0.50
2	Marion & Gladys L. Giesburn	1.03
3	Thelma L. & Gladys L. Giesburn	0.50
4	Donald C. & Genevieve I. Pier	0.50
5	Philip & Bertha Niles	6
6	Edward A. & Mildred Kuehl	2.66
7	Wm. F. & Ina V. Maugens	3
8	Ada & Martha Heasong	3.04
9	May R. Frick	1.5
10	Chas. D. & Grace M. Shepler	1.08
11	Malina Lova	

SECTION 10 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Frank King's Sub-Division	4.818
2	Robert I. Florence McKinley	1425
3	Robert L. & Vivian C. Marquis	2.155
4	Franklin R. & Shirley A. Marston	1.12

SECTION 12 T26N, R3E

PARCEL	OWNER	ACREAGE
1	Elmer A. & Daisy A. Oakes	1.04
2	James & Ina Oakes	1.5
3	Thermogas Co. of Peru	1.15
4	Chas. E. & J. Maryellen Barnes	1
5	Donald I. Wade Elvers	2
6	Thomas O. & M.A. Skirely	2

SECTION 7 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Cherene L. & Thelma V. Biddle	0.50
2	Marion & Gladys L. Giesburn	1.03
3	Thelma L. & Gladys L. Giesburn	0.50
4	Donald C. & Genevieve I. Pier	0.50
5	Philip & Bertha Niles	6
6	Edward A. & Mildred Kuehl	2.66
7	Wm. F. & Ina V. Maugens	3
8	Ada & Martha Heasong	3.04
9	May R. Frick	1.5
10	Chas. D. & Grace M. Shepler	1.08
11	Malina Lova	

SECTION 13 T26N, R3E

PARCEL	OWNER	ACREAGE
1	Quincy R. & Katherine Gruman	1.00
2	Earl F. & Bernice L. Wills	4.80
3	Charles W. & Edith C. Wills	1.76

LAND LOCKED - NO ACCESS PROVIDED

SECTION 6 T26N, R4E

PARCEL	OWNER	ACREAGE
1	Russell J. & Dorothy A. Messinger	0.50
2	William J. & Margaret Allen	0.50
3	John E. & Virginia Lee Shady	0.50
4	Marjorie A. & Edward C. Turner	0.50
5	By Chance	

PLAT 1
FOR DESIGN DEPT.

DETAILS

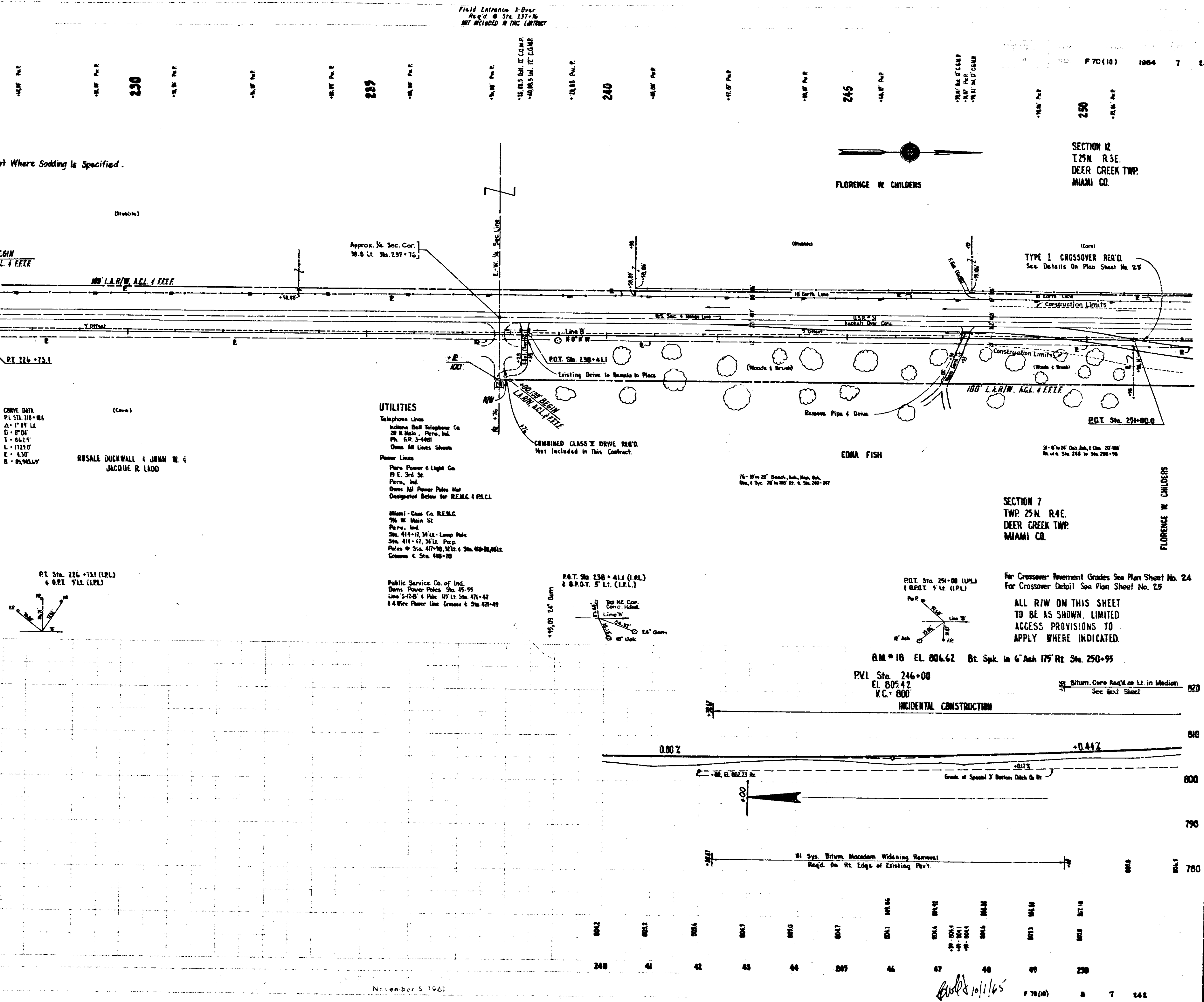
6/20/68 11/16

PROJ. NO.	LINE	SHEET NO.	FILE
F-70(10)		6	

- GENERAL NOTES**
1. Std. C.R.C. Section Dated Rev. 6-26-68 As Shown On Sheet No. 2 To Be Used On This Project.
 2. Typical Cross Sections As Shown On Sheet Nos. 3 & 4 To Be Used On This Project.
 3. S.H.D. of I. Standard Specifications Dated 1963 To Be Used With These Plans.
 4. Standards Under Dates Listed In Index On Title Sheet To Be Used With These Plans.
 5. Grade Line As Shown On Profile Represents Top Of Finished Surface At Centerline Of Each Pavement Except At Superelevated Section.
 6. All Ditches Of 1% Grade and Over Shall Be Sodded Except Where Ditch Is In Rock Cut Or Where Paved Side Ditch Is To Be Constructed.
 7. All Earth Shoulder, Median Area, Cut and Fill Slopes Shall Be Plain Or Mulched Seeded Except Where Sodding Is Specified.
 8. Sodding Shall Be Placed As Shown On Standard And Typical Cross Sections And On Misc. Std. Sheet "MB".
 9. Pipe End Sections Are To Be Used For Retaining All Slopes On This Project Except Where Noted In The Plans. See Misc. Std. Sheet "E2".
 10. For Kinds Of Pipe Permitted For Each Size And Classification As Shown On The Structure Data Sheets, See Misc. Std. Sheet "M".
 11. Curves Shall Be Superelevated According To The Standards Of Nov. 1967.
 12. Excavation Quantities As Shown On P & P Sheets Includes Estimated Excavation For Private And Public Approaches.
 13. All L.A.R/W To Be Fenced With F.F.T.F. OR C.L. Security Fence As Specified In The Plans.
 14. A Keyway Joint Is To Be Constructed On Median Side Of Each Pavement.
 15. All Highway Drainage Structures Over 22" Diameter Have Been Designed On The Basis Of A 10 Year Storm Frequency.
 16. Paper Relocations To Be Cross Sectioned By The Project Engineer Before Construction.
 17. Location Of Subsurface Drain Shown On Sheet No. 33.
 18. The Minimum Grade For Subsurface Drains Shall Be 0.20%. Where The Profile Grade Is Less Than 0.20%, Special Grades For Subsurface Drains Shall Be Established By The Engineer.
 19. The Final Cross Sections Of The "Bridge Grading Contract" Shall Be The Original Cross Sections Of The "Paving Contract".
 20. The Contractor Must Accept The Plan Quantity Of Subbase As Given On The "Estimate Of Quantities Sheet." (See Spec. Provisions).
 21. Overhaul And Added Haul Quantities As Shown In The Balances Are For Information Only. (See Special Provisions).
 22. All Signs And Traffic Control Devices Shall Be Designed And Erected As Specified In "Indiana Manual On Uniform Traffic Control Devices For Streets And Highways", Volume I.
 23. Temporary Traffic Lane Markings Are Required At All Crossovers. (See Special Provisions).
 24. Where Dunker Hill Air Force Base Appears On These Plans, It Shall Be Interpreted To Mean Grissom Air Force Base.
 25. The quantity "Furnishing and Paving Seed (crown-vetch)", shown on the estimate of quantity sheet is to be used at these locations where the slopes are 2:1 or steeper or in an area requiring sand cut or sand fills or as directed by the Engineer.

LEGEND:

R/W - Right of Way
 L.A.R/W - Limited Access Right of Way
 A.C.L. - Access Control Line
 F.F.T.F. - Farm Field Type Fence
 C.L.T.F. - Chain Link Type Fence
 C.L.S.F. - Chain Link Security Fence
 Pavement Breaking
 Pavement Removal



Public Rd X-Over
Req'd @ Sta. 254+18
See Detail on Sheet No. 30

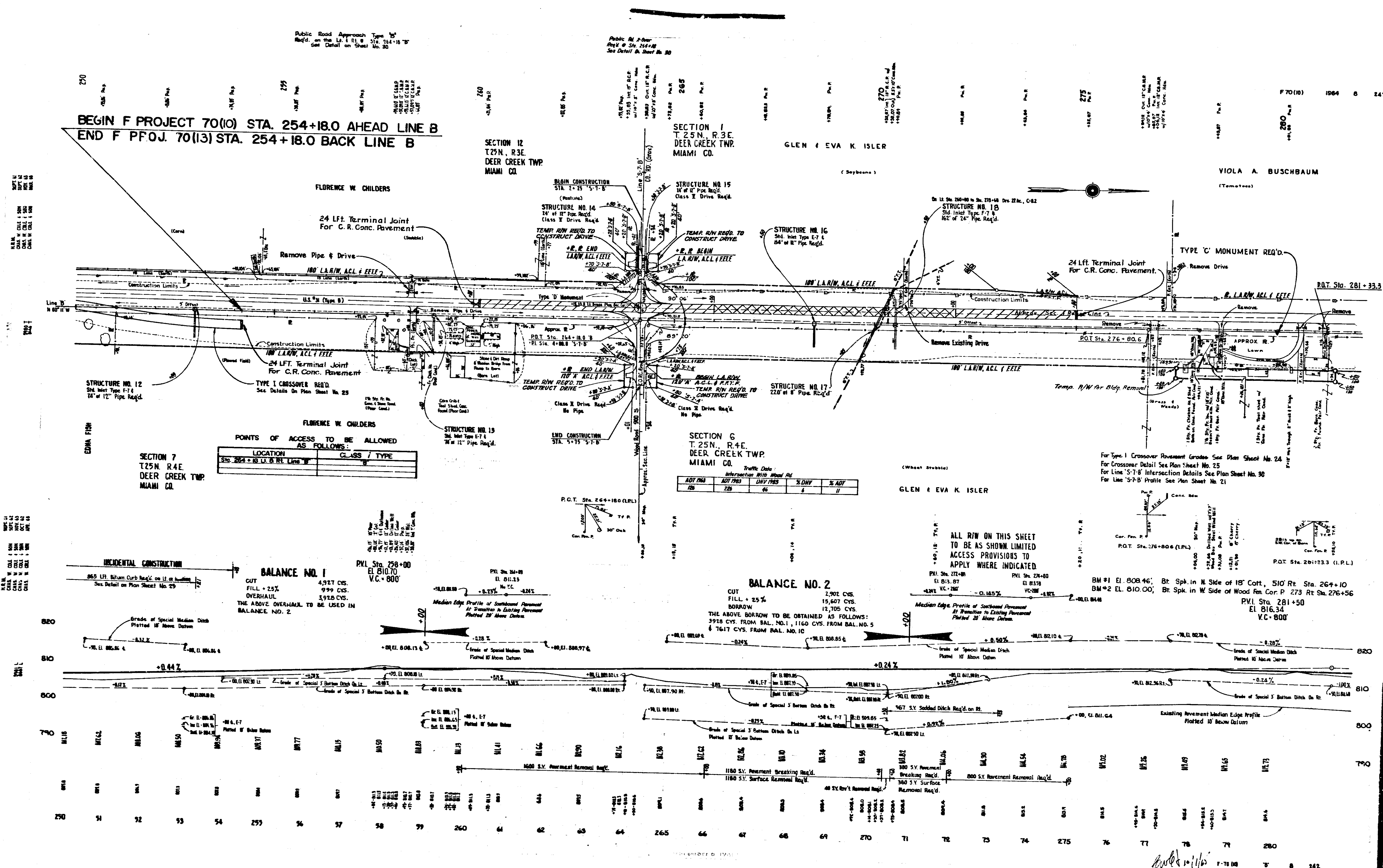
SECTION 12
T25N., R.3E.
DEER CREEK TWP.
MIAMI CO.

SECTION 1
T. 25 N., R. 3 E.
DEER CREEK TWP.
MIAMI CO.

GLEN & EVA K. ISLER

VIOLA A. BUSCHBAUM

F 70 (10) 1584 R 241



VIOLA A. BUSCHBAUM

UNITED STATES OF AMERICA
BUNKER HILL A.F.B.

SECTION 1
T 25 N., R 3 E
DEER CREEK TWP.
MIAMI CO.

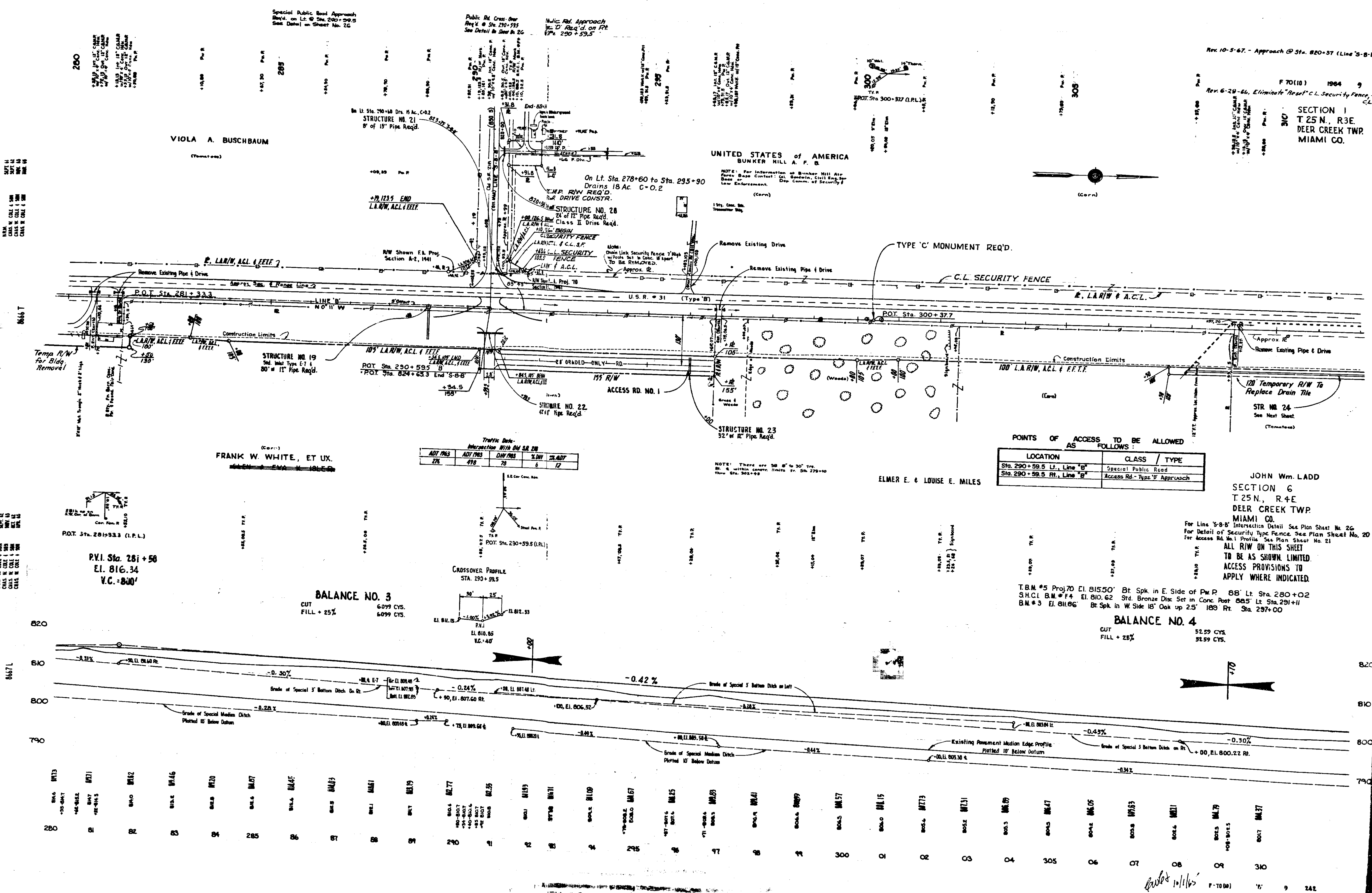
JOHN Wm. LADD
SECTION 6
T 25 N., R 4 E
DEER CREEK TWP.
MIAMI CO.

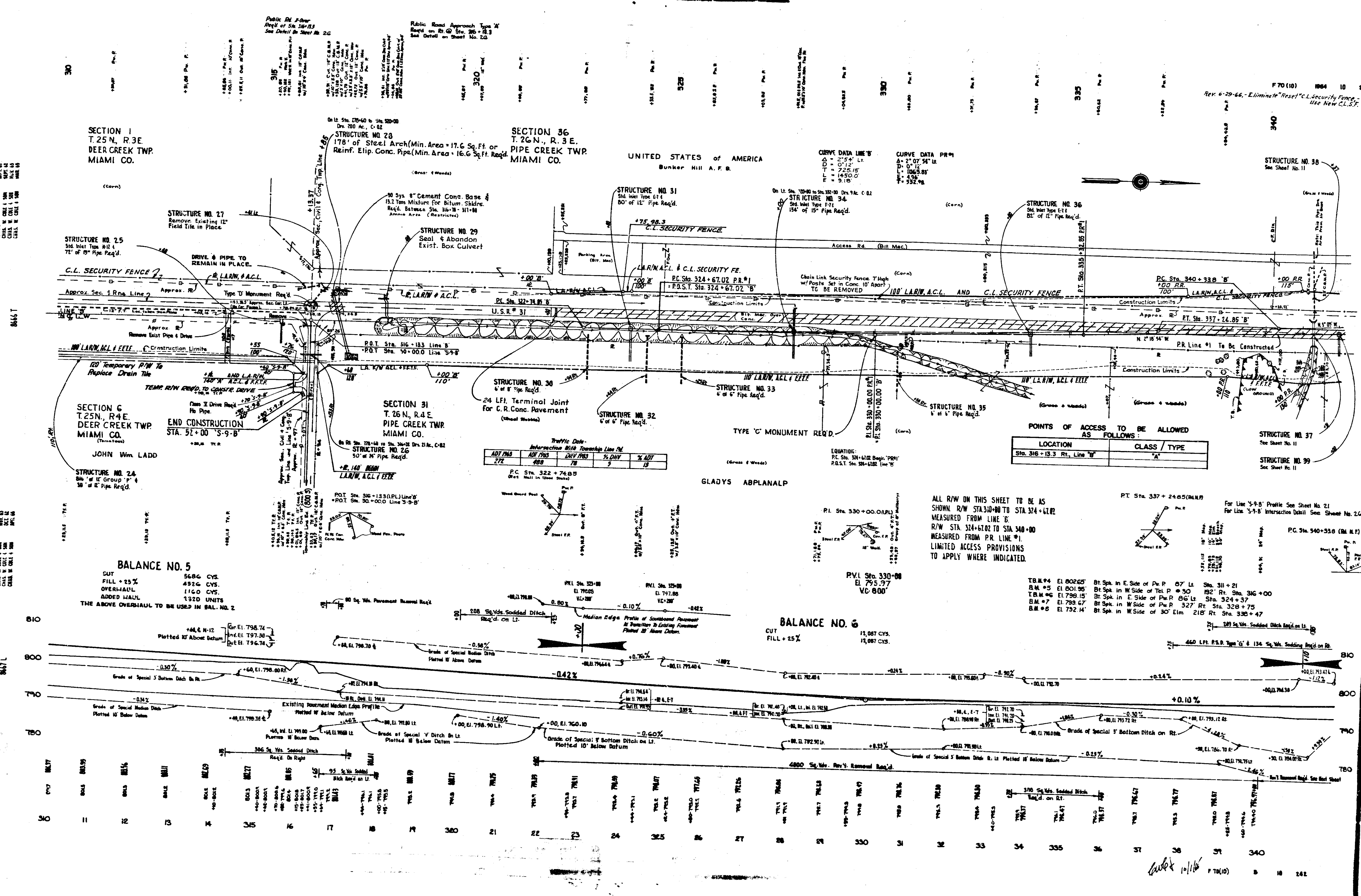
POINTS OF ACCESS TO BE ALLOWED		
LOCATION	CLASS	TYPE
Sta. 290+59.5 L., Line "B"	Special Public Road	
Sta. 290+59.5 R., Line "B"	Access Rd. - Type "V" Approach	

Traffic Data			
ADT PMS	ADT PMS	ADT PMS	ADT PMS
276	478	70	12

BALANCE NO. 3
CUT
FILL + 25%

BALANCE NO. 4
CUT
FILL + 25%





POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 316 + 19.3 Rt. Line "B"	"A"

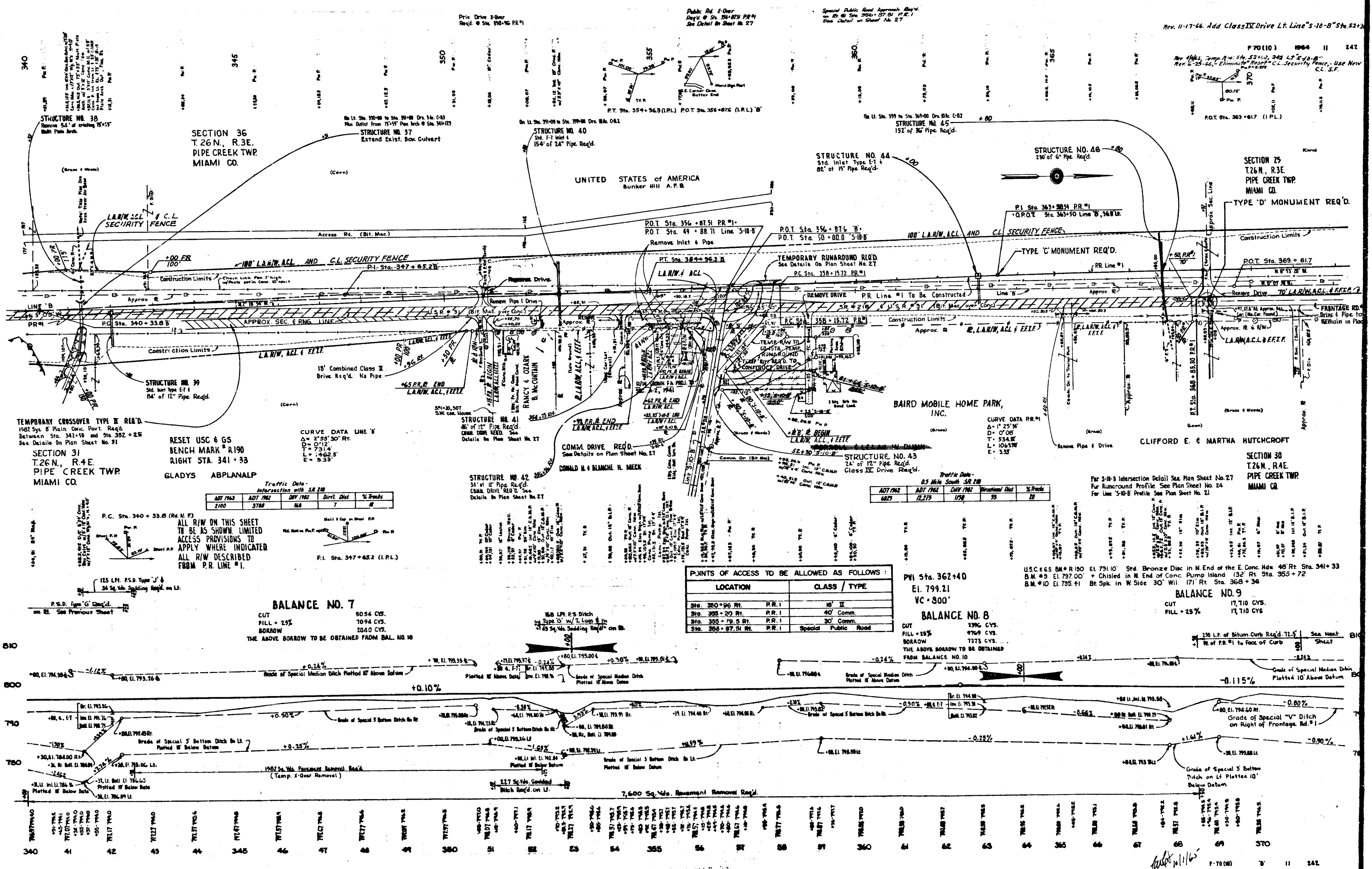
TABLE NO. 4

STATION	EL. 00265	ST. Spk. in E. Side of Pw. P. 07' Lt.	Sta. 311 + 21
EL. 00195	EL. 00195	St. Spk. in W. Side of Tel. P. 030	192' Rt. Sta. 316 + 00
EL. 00195	EL. 00195	St. Spk. in E. Side of Pw. P. 06' Lt.	Sta. 324 + 37
EL. 00195	EL. 00195	St. Spk. in W. Side of Pw. P. 327' Rt.	Sta. 328 + 75
EL. 00195	EL. 00195	St. Spk. in W. Side of 30' Elm.	218' Rt. Sta. 330 + 47

BALANCE NO. 6

STATION	CUT	FILL
11,087 CYS.	13,087 CYS.	

10/16
F70(10) 10 242



SECTION 36
T.26N., R.3E.
PIPE CREEK TWP.
MIAMI CO.

SECTION 25
T.26N., R.3E.
PIPE CREEK TWP.
MIAMI CO.

SECTION 30
T.26N., R.4E.
PIPE CREEK TWP.
MIAMI CO.

SECTION 31
T.26N., R.4E.
PIPE CREEK TWP.
MIAMI CO.

TRAFFIC DATA - INTERSECTION WITH SR 210

ADT 1943	ADT 1942	ADT 1941	ADT 1940	% Trucks
2100	3700	3600	3500	7

POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:

LOCATION	CLASS / TYPE
Sta. 350+96 R.H.	P.R. I
Sta. 355+20 R.H.	P.R. I
Sta. 355+79.5 R.H.	P.R. I
Sta. 355+87.5 R.H.	P.R. I

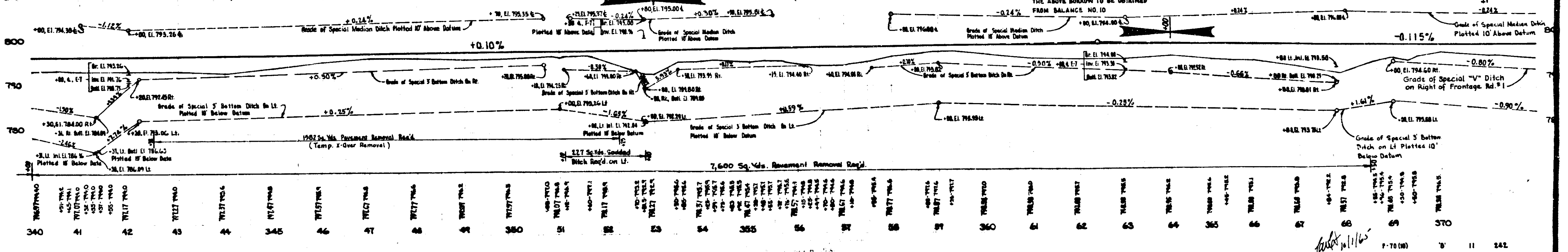
PVI Sta. 362+40
EI. 799.21
VC+300'

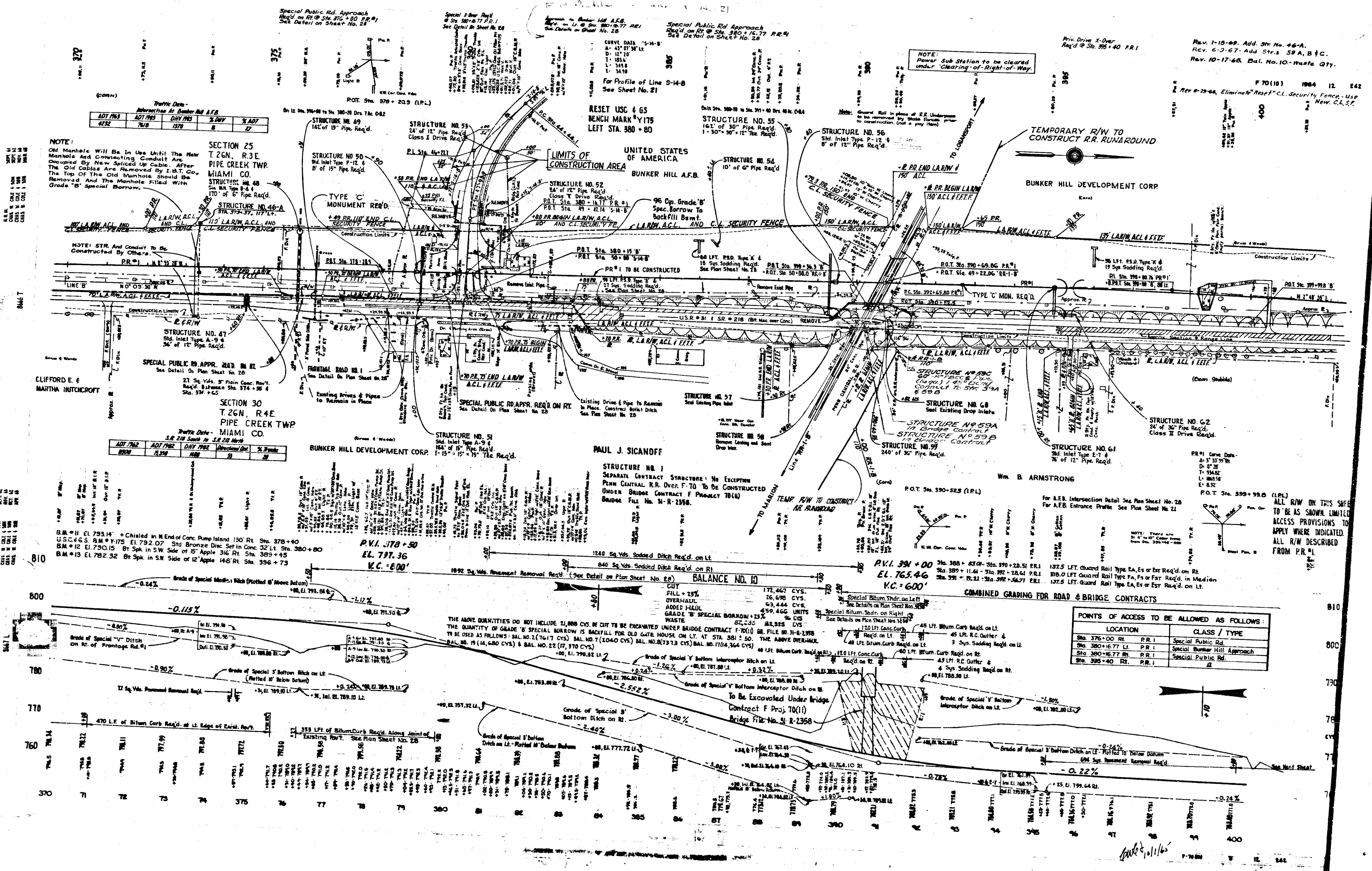
USC & S. BM. R. 150 EI. 791.10' Srd. Bronze Disc in N. End of E. Conc. Ndw. 48' Rt. Sta. 341+33
B.M. #9 EI. 797.00' Chisled in N. End of Conc. Pump Island 152' Rt. Sta. 355+72
B.M. #10 EI. 795.11' Bt. Spk. in W. Side 30' W. Rt. Sta. 365+36

BALANCE NO. 7
CUT
FILL + 25%
BORROW
THE ABOVE BORROW TO BE OBTAINED FROM BAL. NO. 10

BALANCE NO. 9
CUT
FILL + 25%
BORROW
THE ABOVE BORROW TO BE OBTAINED FROM BALANCE NO. 10

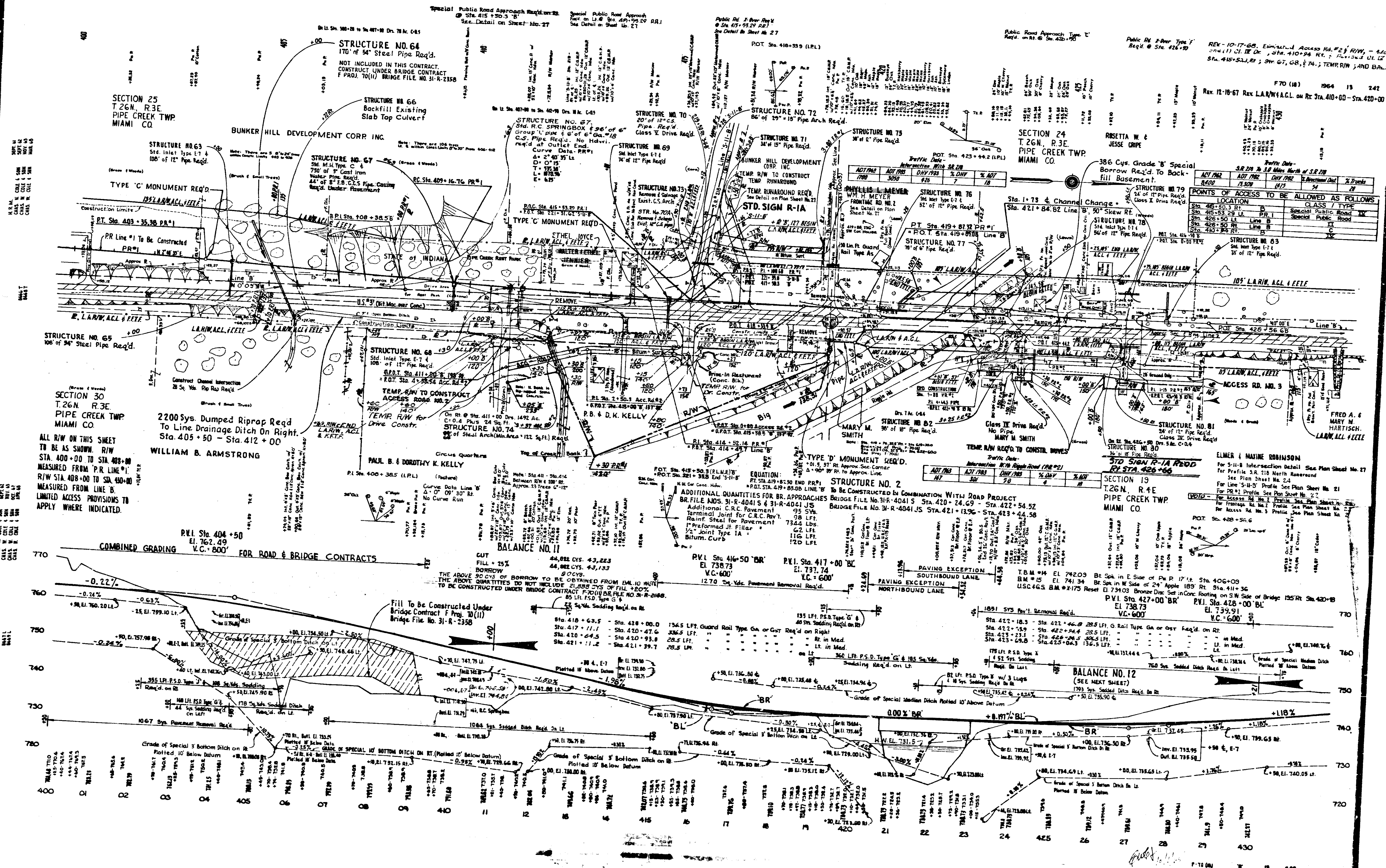
BALANCE NO. 8
CUT
FILL + 25%
BORROW
THE ABOVE BORROW TO BE OBTAINED FROM BALANCE NO. 10





POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS	
LOCATION	CLASS / TYPE
Sta. 376+00 RT. P.R. 1	Special Public Rd.
Sta. 380+67.77 LT. P.R. 1	Special Bunker Hill Approach
Sta. 390+40 RT. P.R. 1	Special Public Rd.
Sta. 395+40 RT. P.R. 1	AT

ALL R/W ON THIS SHEET TO BE AS SHOWN. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED. ALL R/W DESCRIBED FROM P.R. 1.



REV. 10-17-68, Eliminated Access Rd. #2 & R/W - Added
 (11) C.I. Dr. Sta. 410+00 to Sta. 410+10.00
 Sta. 415+50.00 to Sta. 416+00.00; TEMP. R/W; AND BAL.

REV. 12-10-67 REV. LARIN A.C.L. ON RT. STA. 410+00 - STA. 420+00

Points of Access to be Allowed as follows

LOCATION	CLASS / TYPE
Sta. 405+00.00	PR 1
Sta. 405+50.00	PR 1
Sta. 406+00.00	PR 1
Sta. 406+50.00	PR 1
Sta. 407+00.00	PR 1
Sta. 407+50.00	PR 1
Sta. 408+00.00	PR 1
Sta. 408+50.00	PR 1
Sta. 409+00.00	PR 1
Sta. 409+50.00	PR 1
Sta. 410+00.00	PR 1
Sta. 410+50.00	PR 1
Sta. 411+00.00	PR 1
Sta. 411+50.00	PR 1
Sta. 412+00.00	PR 1
Sta. 412+50.00	PR 1
Sta. 413+00.00	PR 1
Sta. 413+50.00	PR 1
Sta. 414+00.00	PR 1
Sta. 414+50.00	PR 1
Sta. 415+00.00	PR 1
Sta. 415+50.00	PR 1
Sta. 416+00.00	PR 1
Sta. 416+50.00	PR 1
Sta. 417+00.00	PR 1
Sta. 417+50.00	PR 1
Sta. 418+00.00	PR 1
Sta. 418+50.00	PR 1
Sta. 419+00.00	PR 1
Sta. 419+50.00	PR 1
Sta. 420+00.00	PR 1

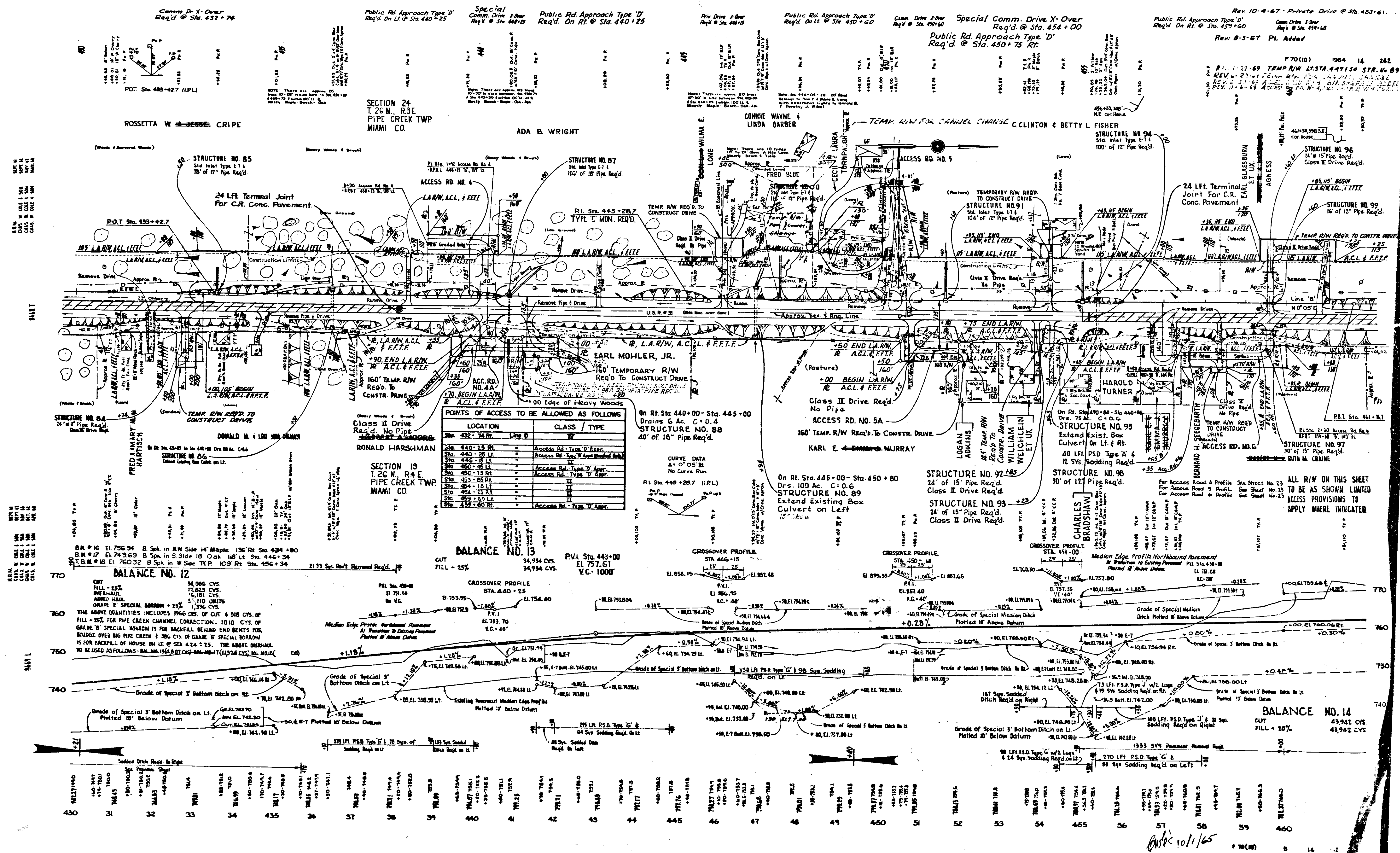
ELMER & MARINE ROBINSON
 For 3-11-68 Intersection Detail See Plan Sheet No. 27
 For Profile S.A. 210 North Runaround
 See Plan Sheet No. 24
 For Line 'S-B' Profile See Plan Sheet No. 21
 For Access Rd. #2 Profile See Plan Sheet No. 22
 For Frontage Rd. #2 Profile See Plan Sheet No. 23
 For Access Rd. #3 Profile See Plan Sheet No. 24

SECTION 19
 T.26N. R.4E
 PIPE CREEK TWP
 MIAMI CO.

SECTION 20
 T.26N. R.4E
 PIPE CREEK TWP
 MIAMI CO.

SECTION 21
 T.26N. R.4E
 PIPE CREEK TWP
 MIAMI CO.

SECTION 22
 T.26N. R.4E
 PIPE CREEK TWP
 MIAMI CO.



Priv. Dr. 1-Over
Req'd @ Sta. 463+85

Public Road Approach Type B
Req'd on P.L. @ Sta. 471+45.9
See Detail on Sheet No. 29

Public Rd. 1-Over
Req'd @ Sta. 471+45.9
See Detail on Sheet No. 29

Special Public Road Approach
Req'd on P.L. @ Sta. 471+45.9
See Detail on Sheet No. 29

F 70 (10) 1964 15 242

Rev. 8/23/66 Temp. H/W to Perm. on Clearance & Tires & Bids
properly

TEMPORARY RUMAROUND REQ'D
See Details on Plan Sheet No. 32

SECTION 24
T26N R3E
PIPE CREEK TWP
MIAMI CO.
STRUCTURE NO. 100
30' of 12" Pipe Req'd.

Wm. R. BIDDLE
P.L. Sta. 465+90.8
30' of 12" Pipe Req'd.

GEORGE W. & FLO. L. CARSON
P.L. Sta. 465+90.8
30' of 12" Pipe Req'd.

STRUCTURE NO. 104
50' of 12" Pipe Req'd.

STRUCTURE NO. 107
50' of 12" Pipe Req'd.

RESET USC & GS
BENCH MARK # W175
LEFT STA. 472+77

RUSSELL H. & HAZEL L. REYBURN
(Clear)

SECTION 13
T26N R3E
PIPE CREEK TWP
MIAMI CO.

POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS:		
LOCATION	CLASS	TYPE
Sta. 463+85 P.L.	Line B	II
Sta. 471+66.5 L.L.		Special Public Road
Sta. 471+66.5 R.L.		B

TYPE 'C' MONUMENT REQ'D

STRUCTURE NO. 108
200' of 12" Pipe Req'd.

P.L. Sta. 481+133

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

100' L.A./W. A.C.L. 1 FEET

SECTION 18
T26N R4E
PIPE CREEK TWP
MIAMI CO.

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

For Access Rd. No. 7 Profile See Plan Sheet No. 22
For Profile Temporary Runaround Sta. 461+42.8 to
Sta. 469+91.4 See Plan Sheet No. 24
For S-12-B Profile See Plan Sheet No. 22
For S-12-B Intersection Detail See Plan Sheet No. 29
GAIL J. & RUTH MORRETT

B.M. #15 El. 764.02 B. Spk. in E. Side 12' Elm. 108' Lt. Sta. 463+72
U.S.C. & G.S. B.M. # W175 El. 774.62 Bronze Disc Set in Conc. Fen. P. 14' Lt. Sta. 472+77
T.B.M. #20 El. 791.29 B. Spk. in W. Side T.R. #115 75' Rt. Sta. 485+90
P.V.L. Sta. 493+90
El. 787.05
V.C. = 800'

BALANCE NO. 15

CUT 23,599 CYS.

FILL 23,599 CYS.

BORROW 0.000 CYS.

THE ABOVE BORROW TO BE OBTAINED FROM
BAL. NO. 12

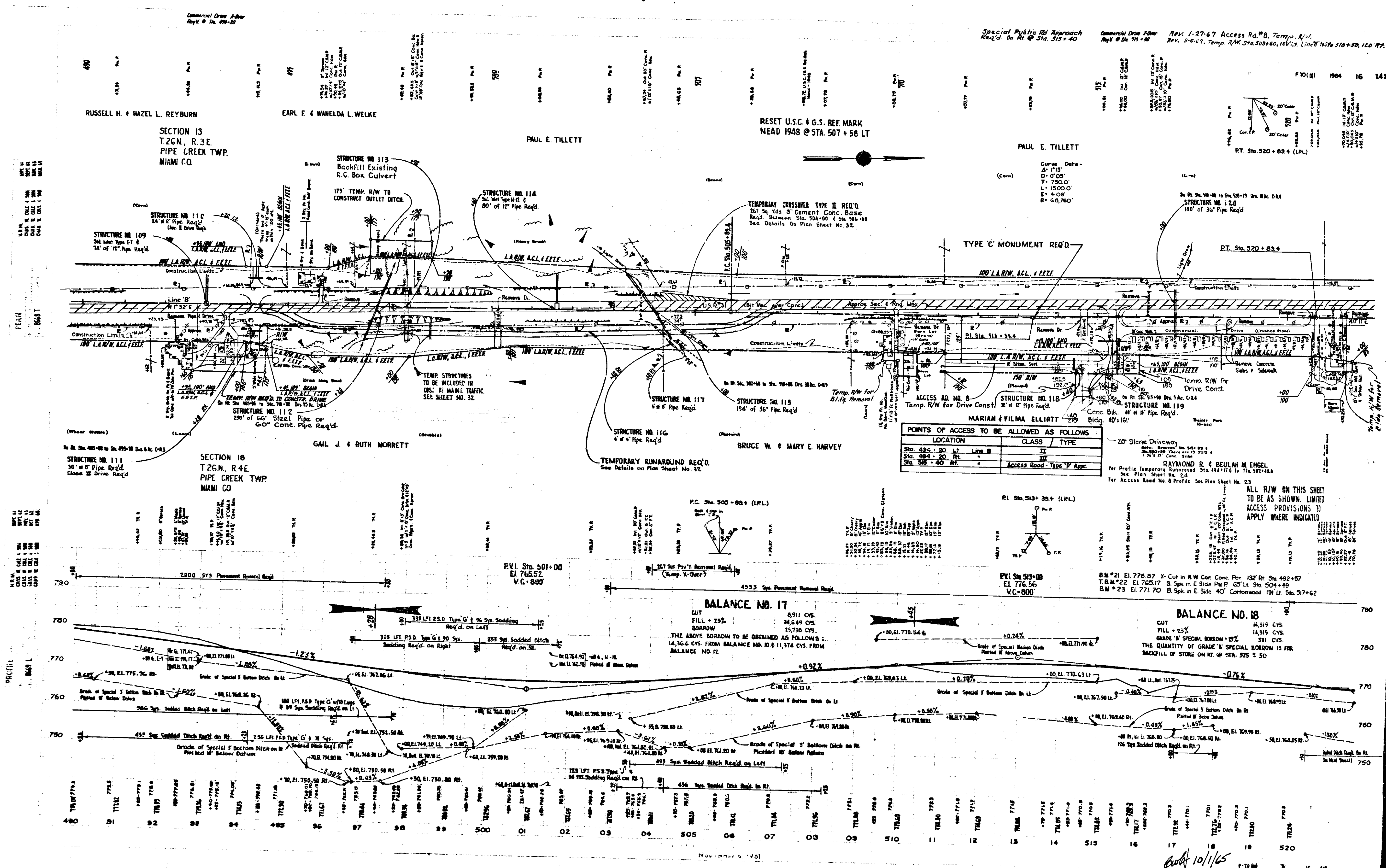
BALANCE NO. 16

CUT 19,303 CYS.

FILL 19,303 CYS.

BORROW 0.000 CYS.

10/1/65 F-70 (10) 15 242



POINTS OF ACCESS TO BE ALLOWED AS FOLLOWS		
LOCATION	CLASS	TYPE
Sta. 494 + 20 L. 2' Line B		II
Sta. 494 + 20 R. 1' =		II
Sta. 513 + 40 R. 1' =	Access Road - Type 'D' Appr.	

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

RAYMOND R. & BEULAH M. ENGEL
See Plan Sheet No. 24
For Access Road No. 6 Profile See Plan Sheet No. 23

BM #21 EL. 778.87 X-Cut in N.W. Cor. Conc. Pk. 132' R. Sta. 492 + 57
T.B.M. #22 EL. 765.17 B. Spk. in E. Side P.W. 65' L. Sta. 504 + 49
B.M. #23 EL. 771.70 B. Spk. in E. Side 40' Cottonwood 191' L. Sta. 517 + 62

BALANCE NO. 17

CUT 6,911 CYS.
FILL + 25% 34,649 CYS.
BORROW 15,736 CYS.

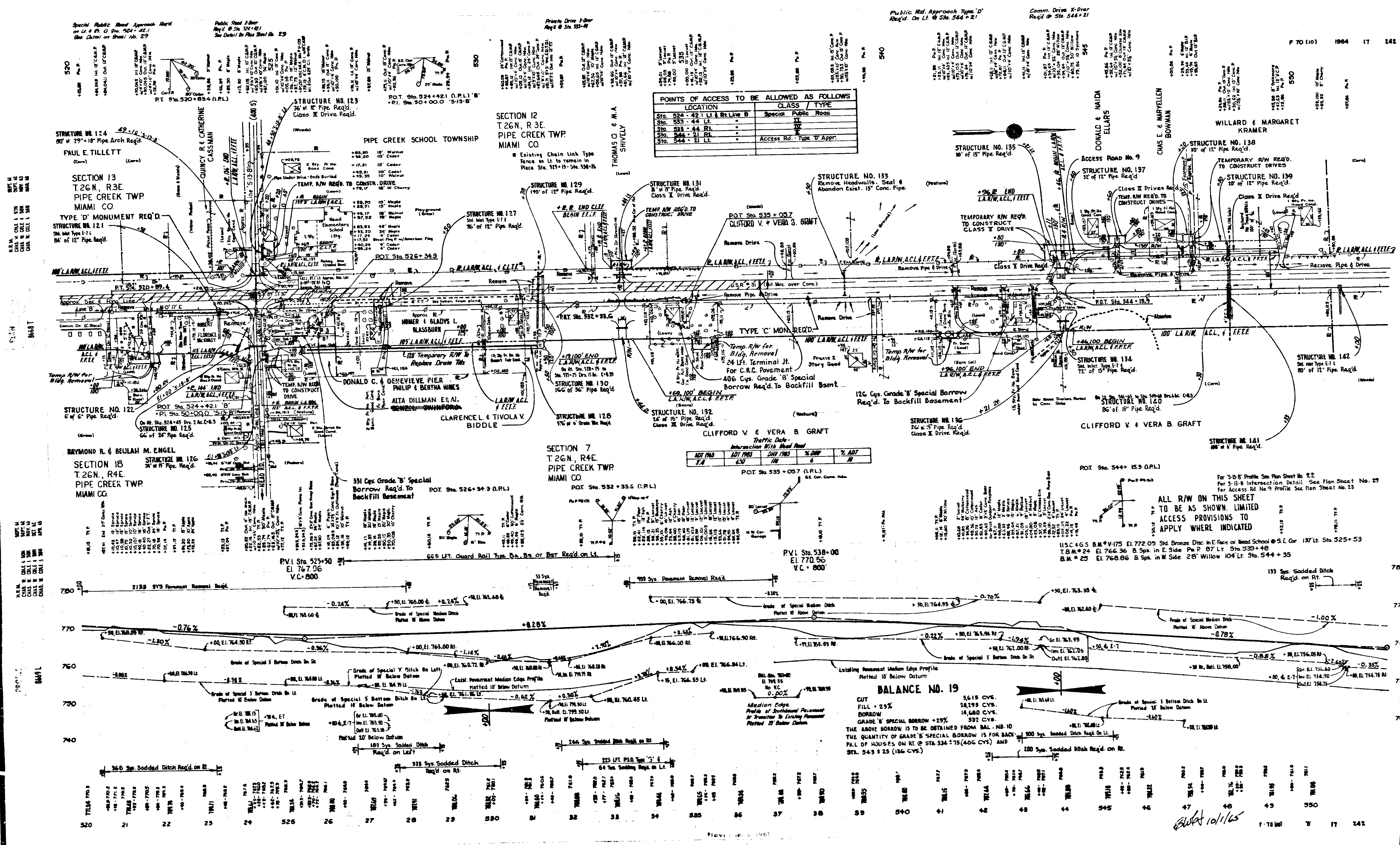
THE ABOVE BORROW TO BE OBTAINED AS FOLLOWS:
14,366 CYS. FROM BALANCE NO. 10 & 11, 374 CYS. FROM BALANCE NO. 12

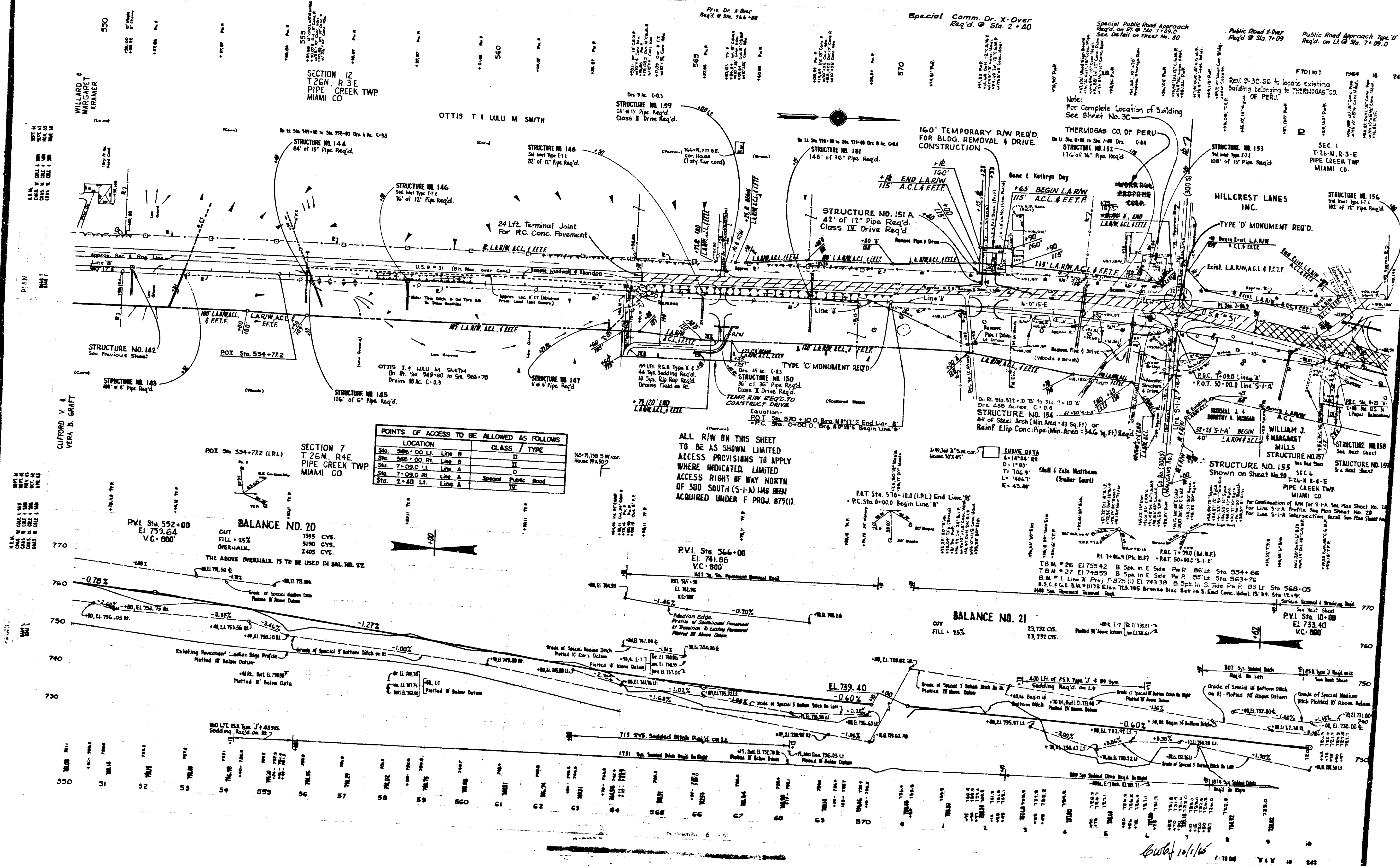
BALANCE NO. 18

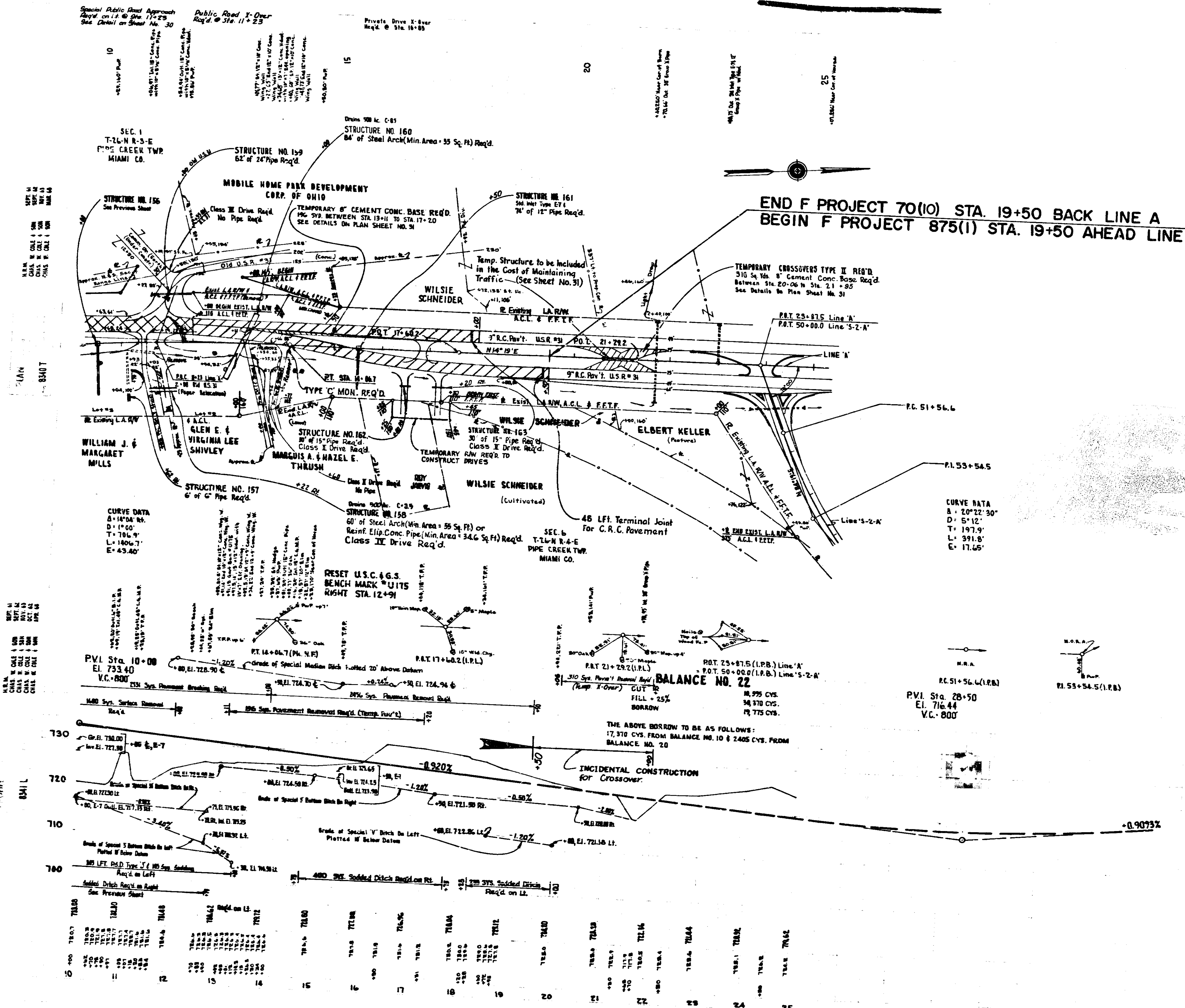
CUT 14,919 CYS.
FILL + 25% 14,919 CYS.
BORROW 331 CYS.

THE QUANTITY OF GRADE'S SPECIAL BORROW IS FOR BACKFILL OF STONE ON RT. @ STA. 525 + 50

Curt 10/1/65



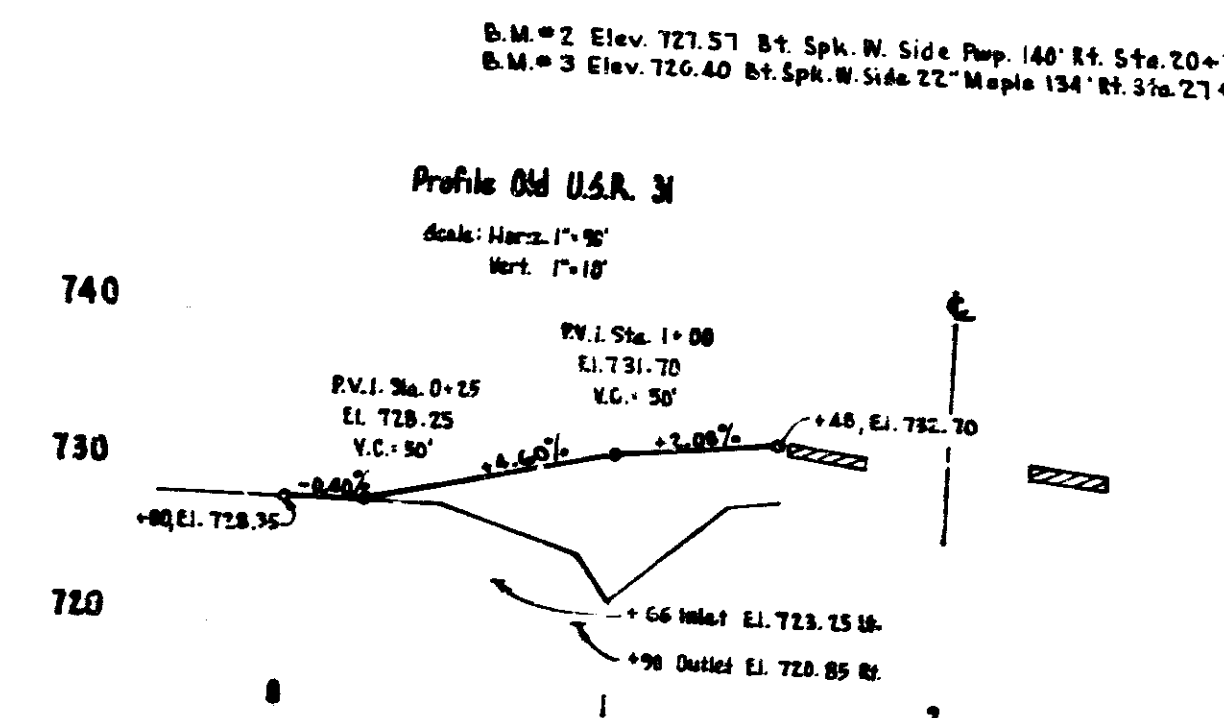




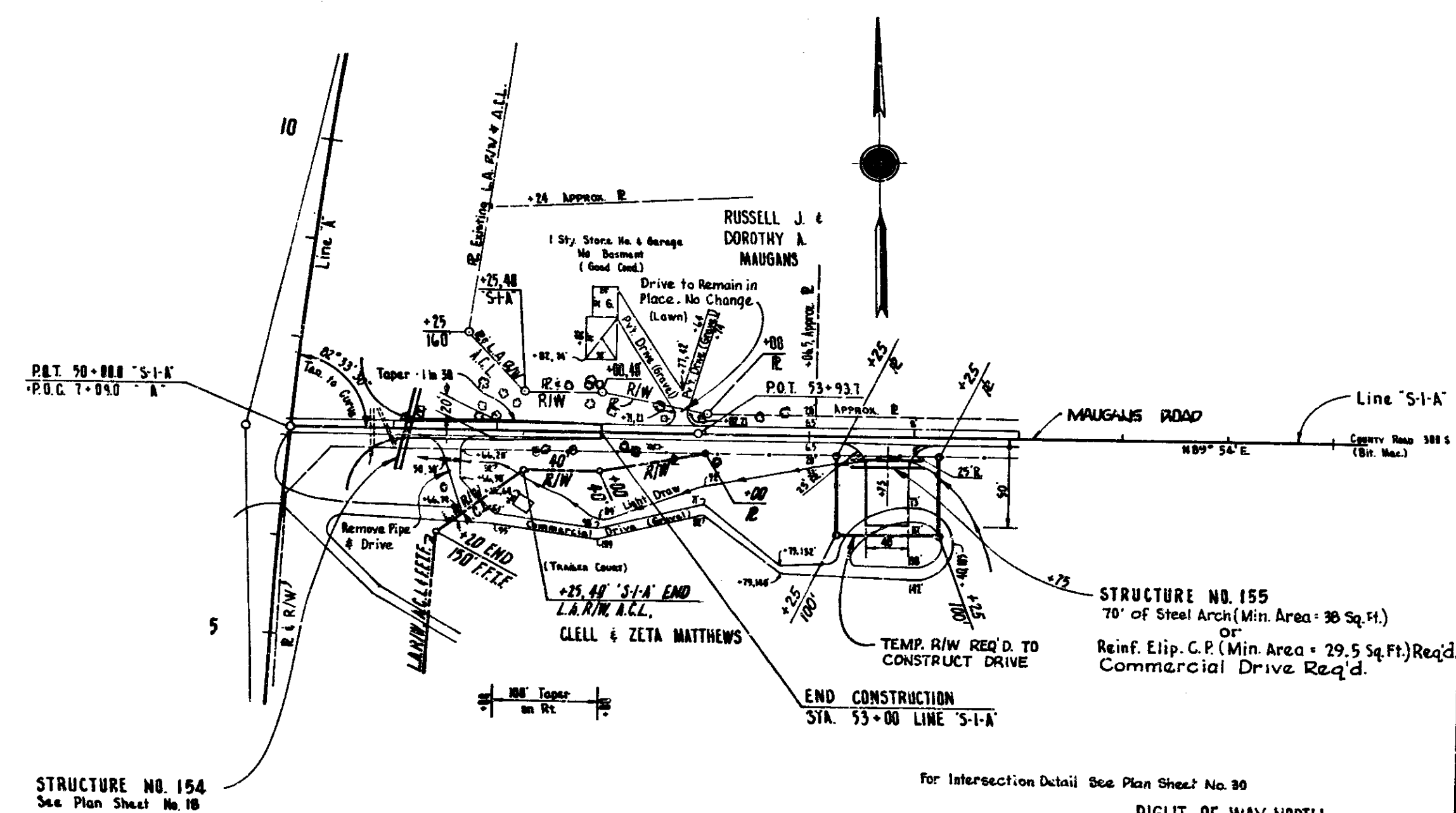
ALL R/W ON THIS SHEET
TO BE AS SHOWN. LIMITED
ACCESS PROVISIONS TO APPLY
WHERE INDICATED. ALL RIGH
OF WAY ON THIS SHEET HAS
BEEN ACQUIRED UNDER
F PROJECT 875 (1).

RELOCATE FARM FIELD
TYPE FENCE AS SHOWN
ABOVE STA. 12+00 -
STA. 15+00 ON LT.

For Old U.S. 31 interchange Detail See Plan Sheet No. 3

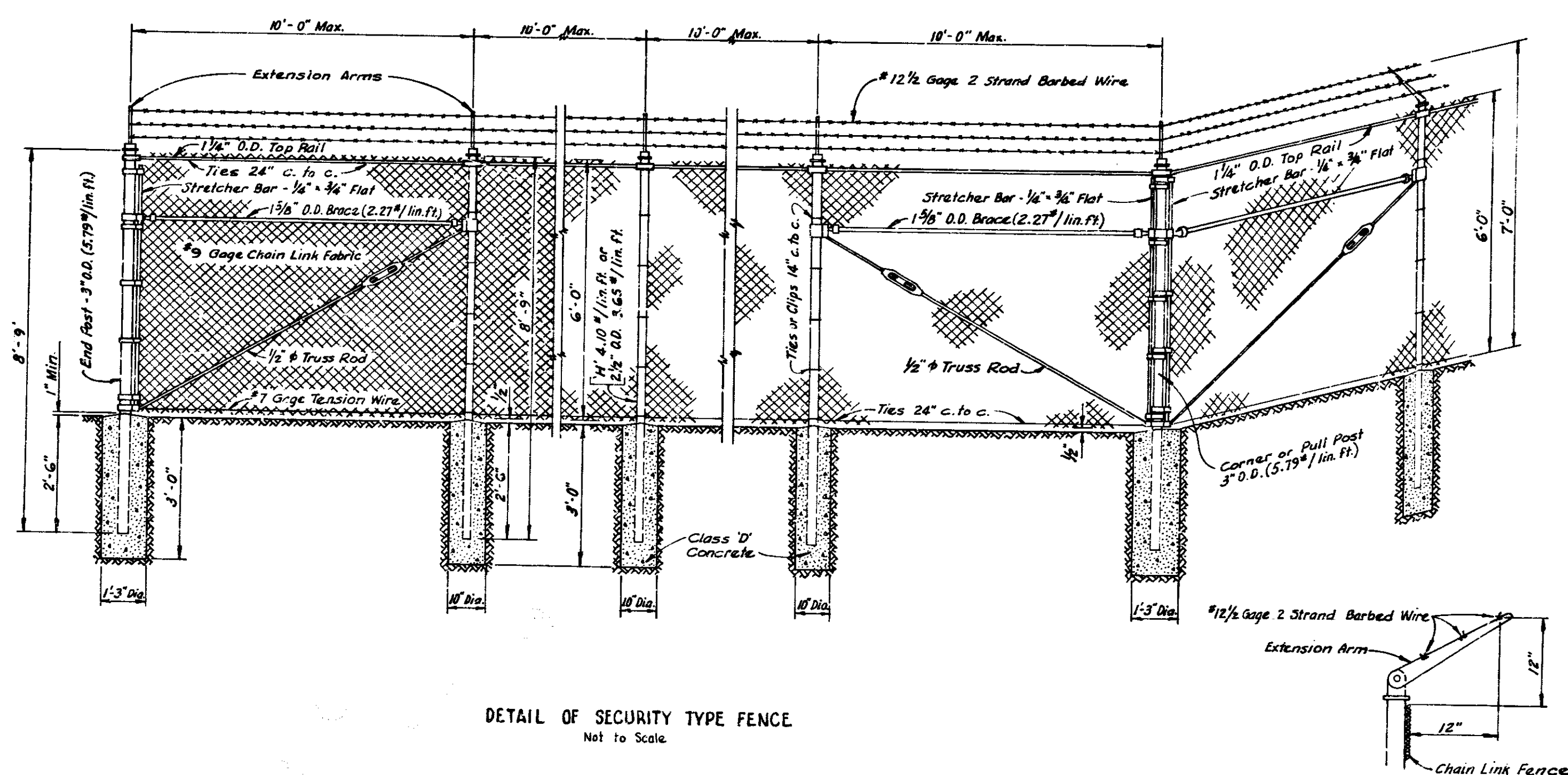
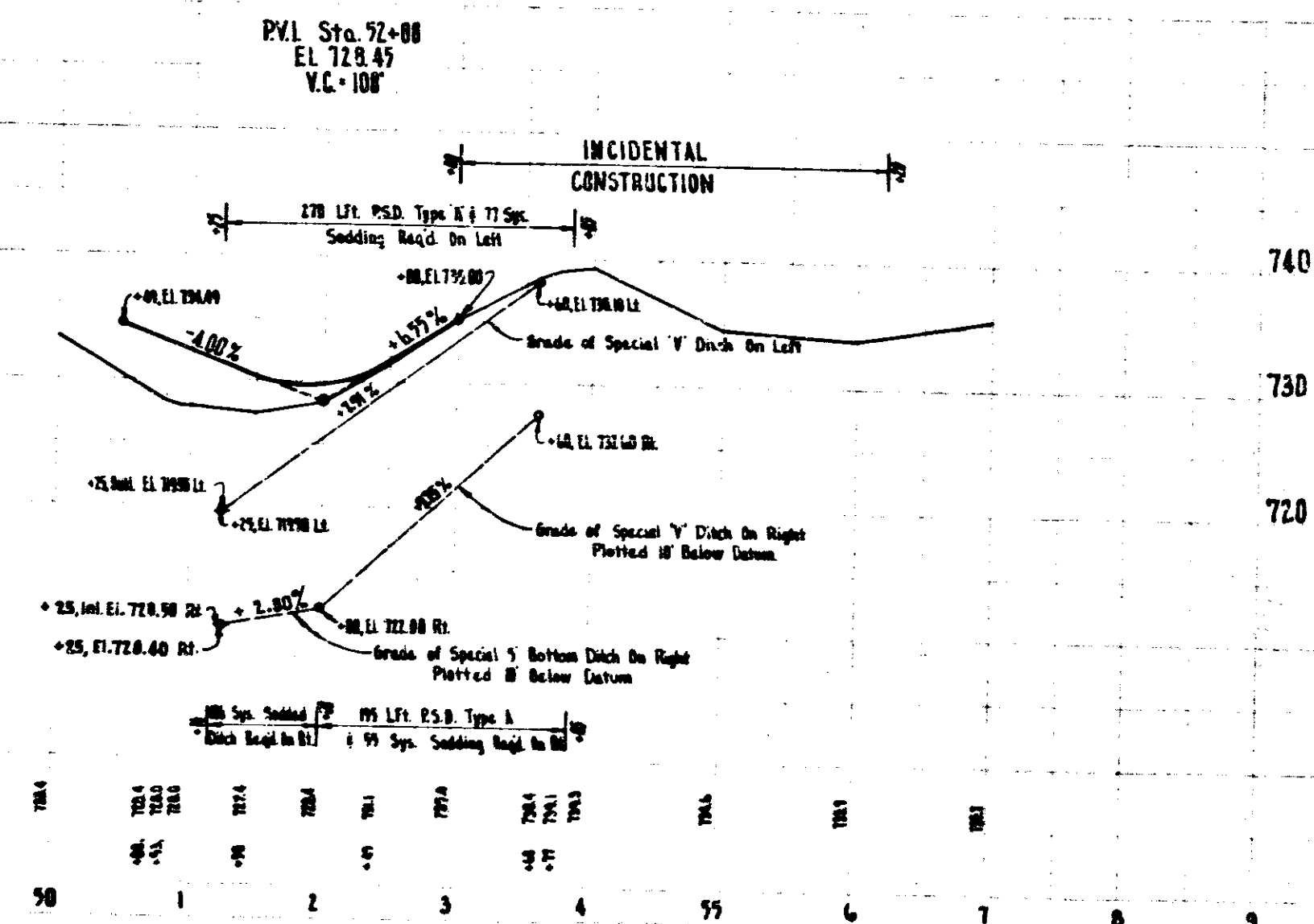
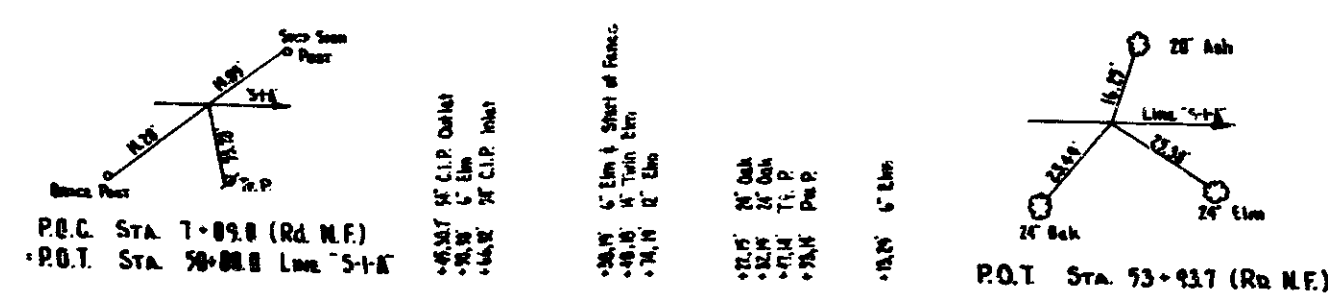


Busk 10/1/62



RIGHT OF WAY NORTH
OF 300 S (S-1-A) HAS
BEEN ACQUIRED UNDER
F PROJ. 875 (1).

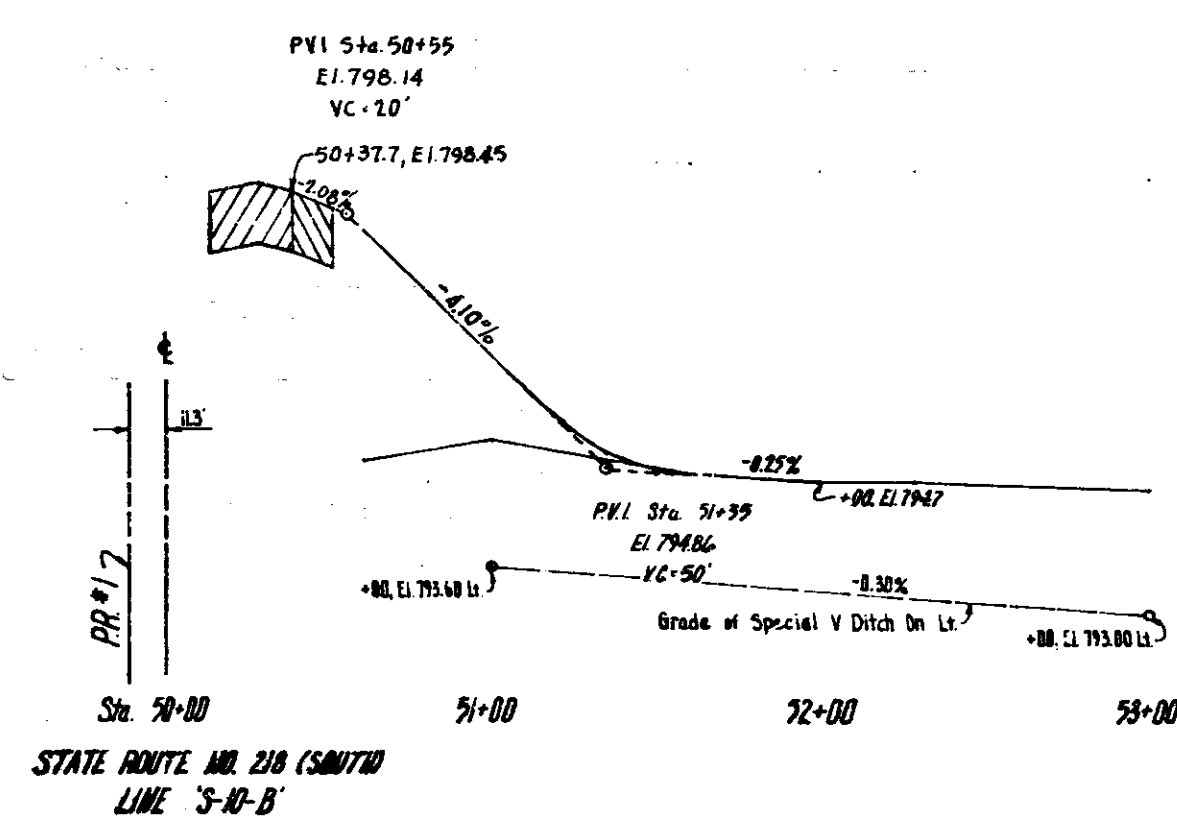
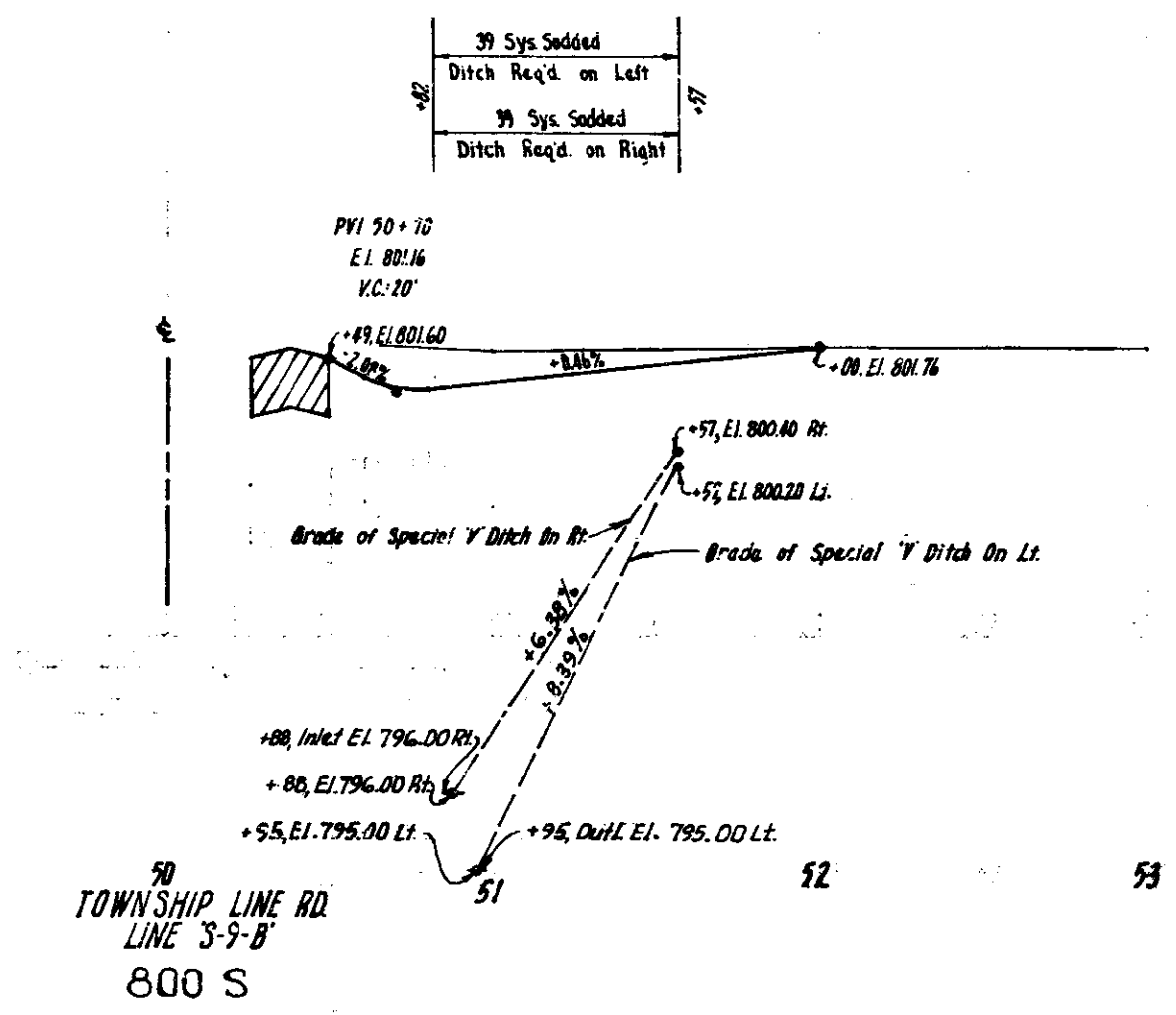
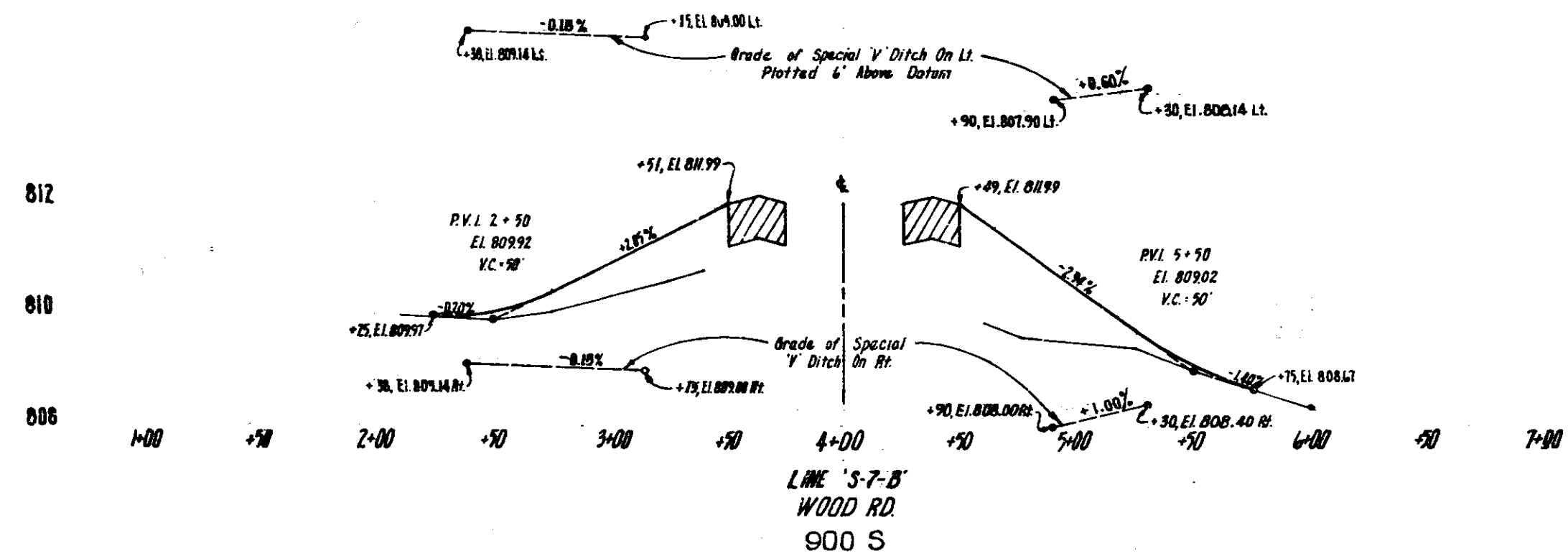
ALL R/W ON THIS SHEET
TO BE AS SHOWN. LIMITED
ACCESS PROVISIONS TO
APPLY WHERE INDICATED.



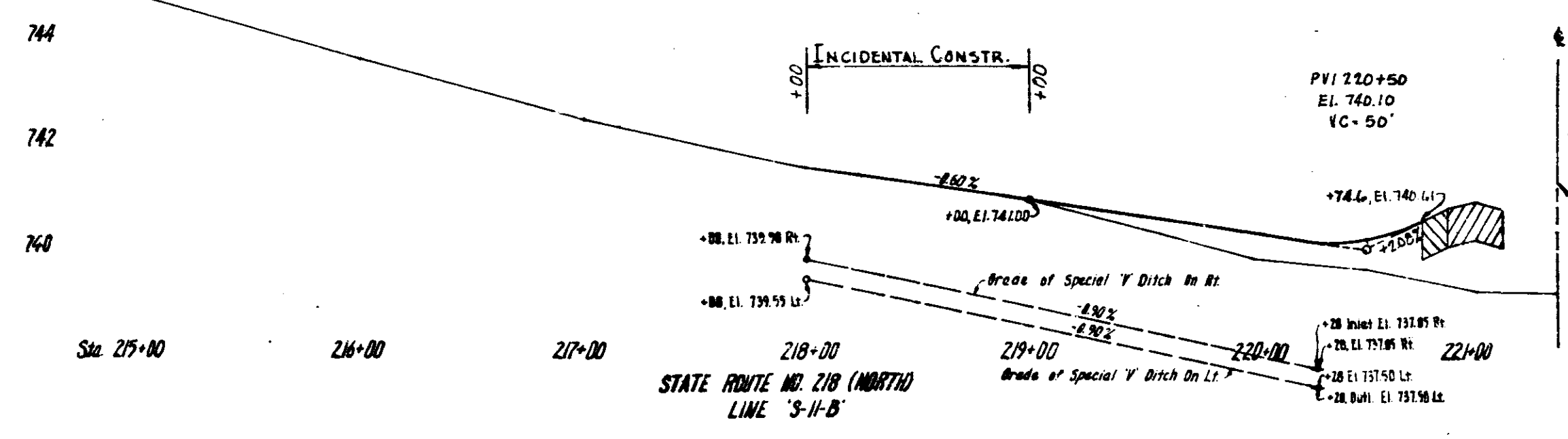
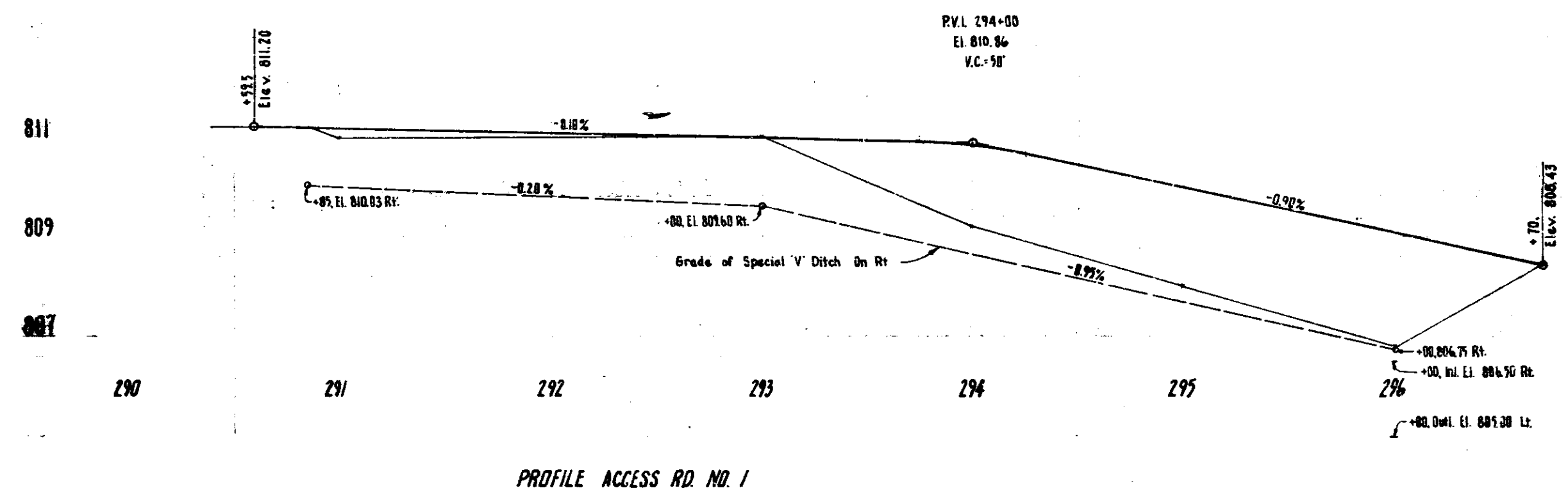
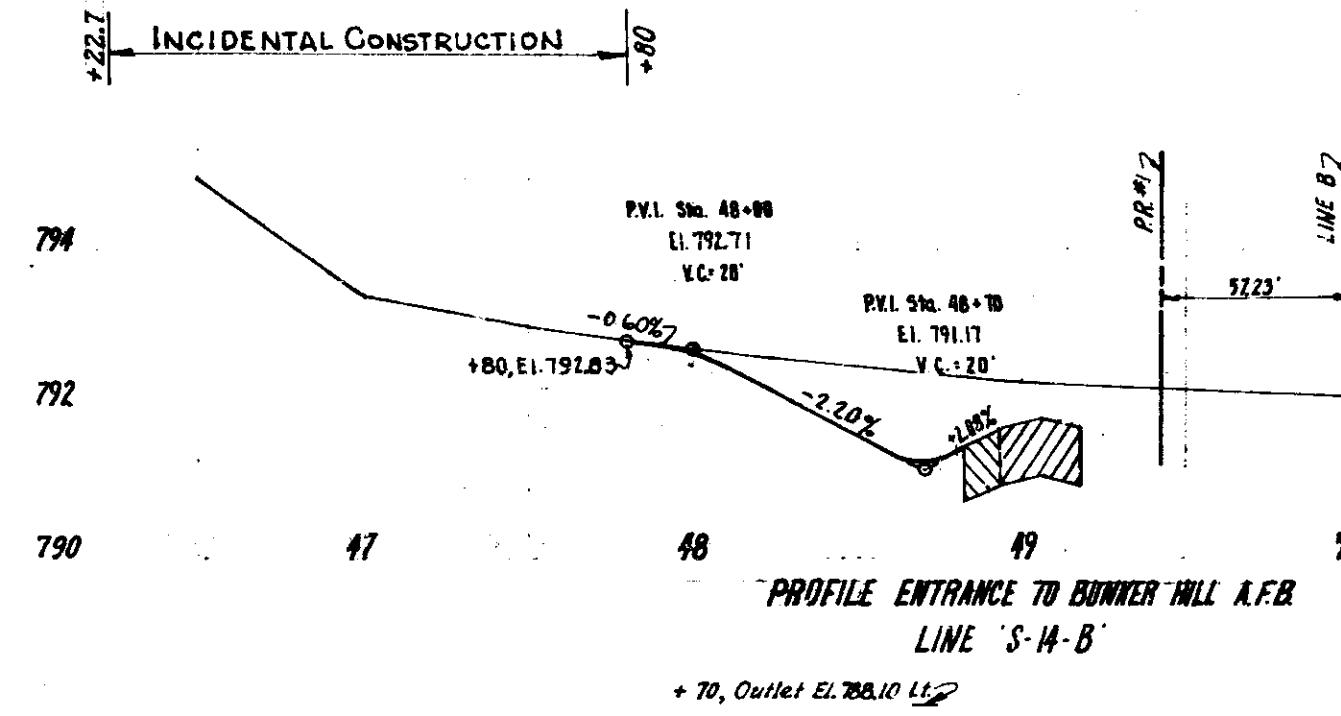
DETAIL OF SECURITY TYPE FENCE
Not to Scale

November 6, 1961

Recd 10/1/65

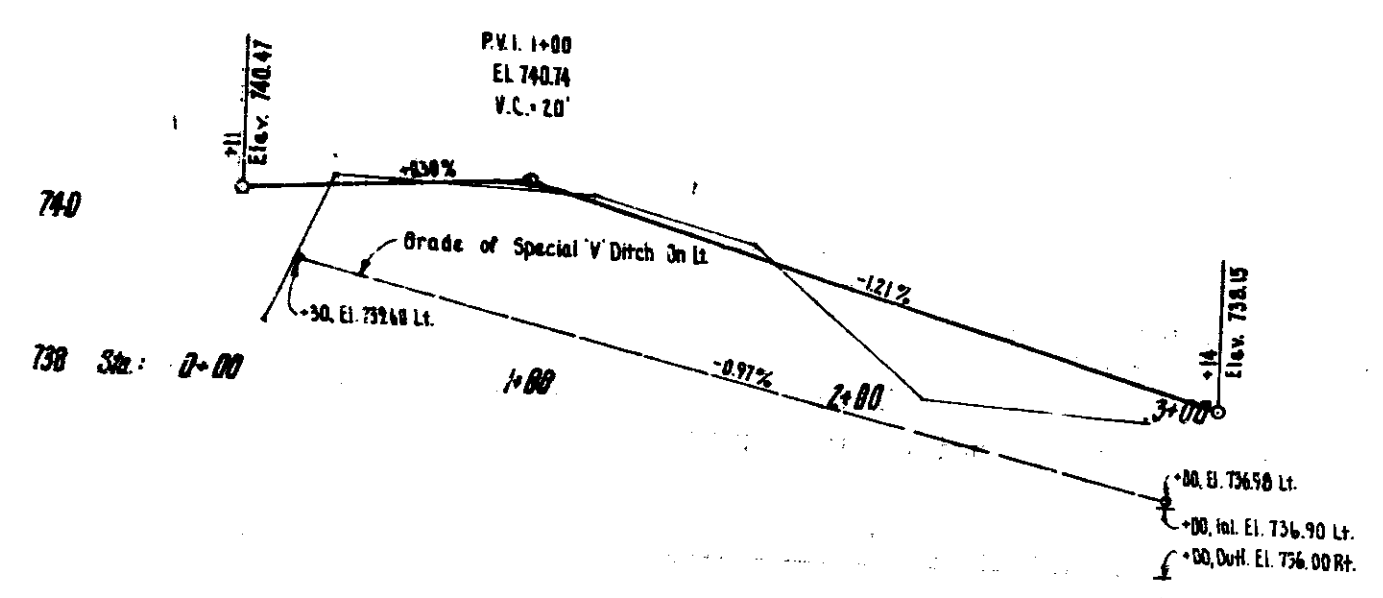


- PROFILES OF:
- (1) LINE 'S-7-B'
 - (2) LINE 'S-9-B'
 - (3) LINE 'S-10-B'
 - (4) ENTRANCE TO BUNKER HILL AFB 'S-14-B'
 - (5) ACCESS RD NO. 1
 - (6) LINE 'S-11-B'

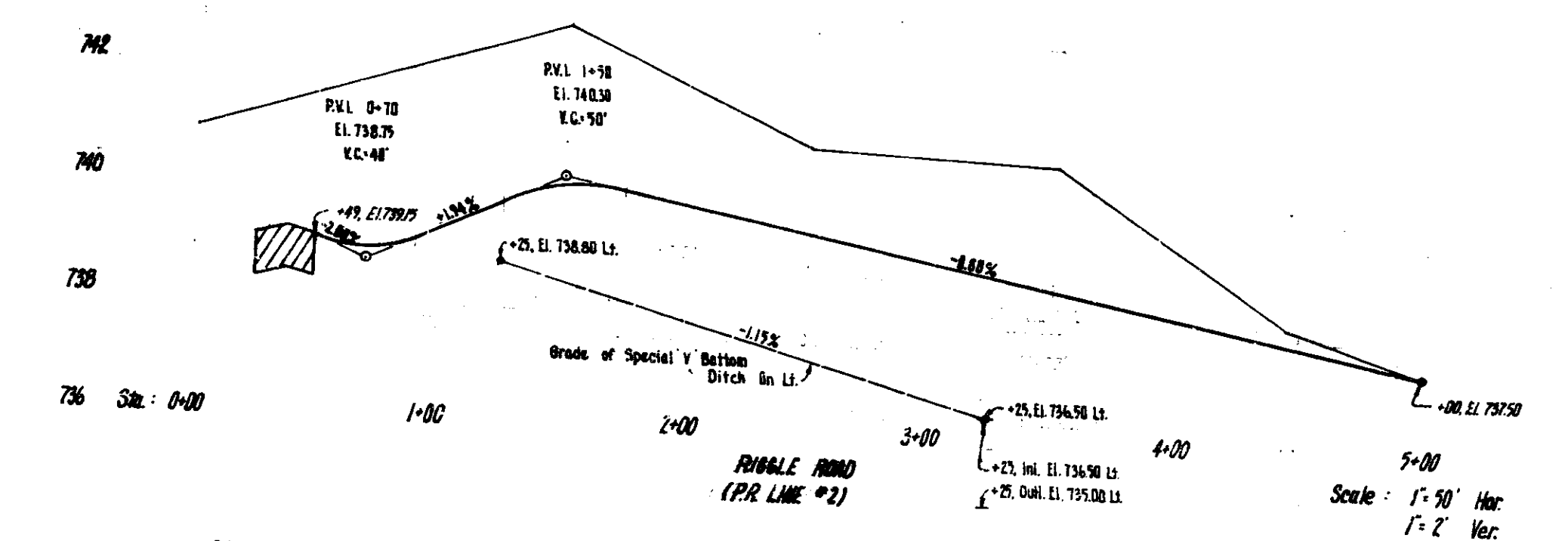


Scale: 1"=50' Horizontal
1"=2' Vertical

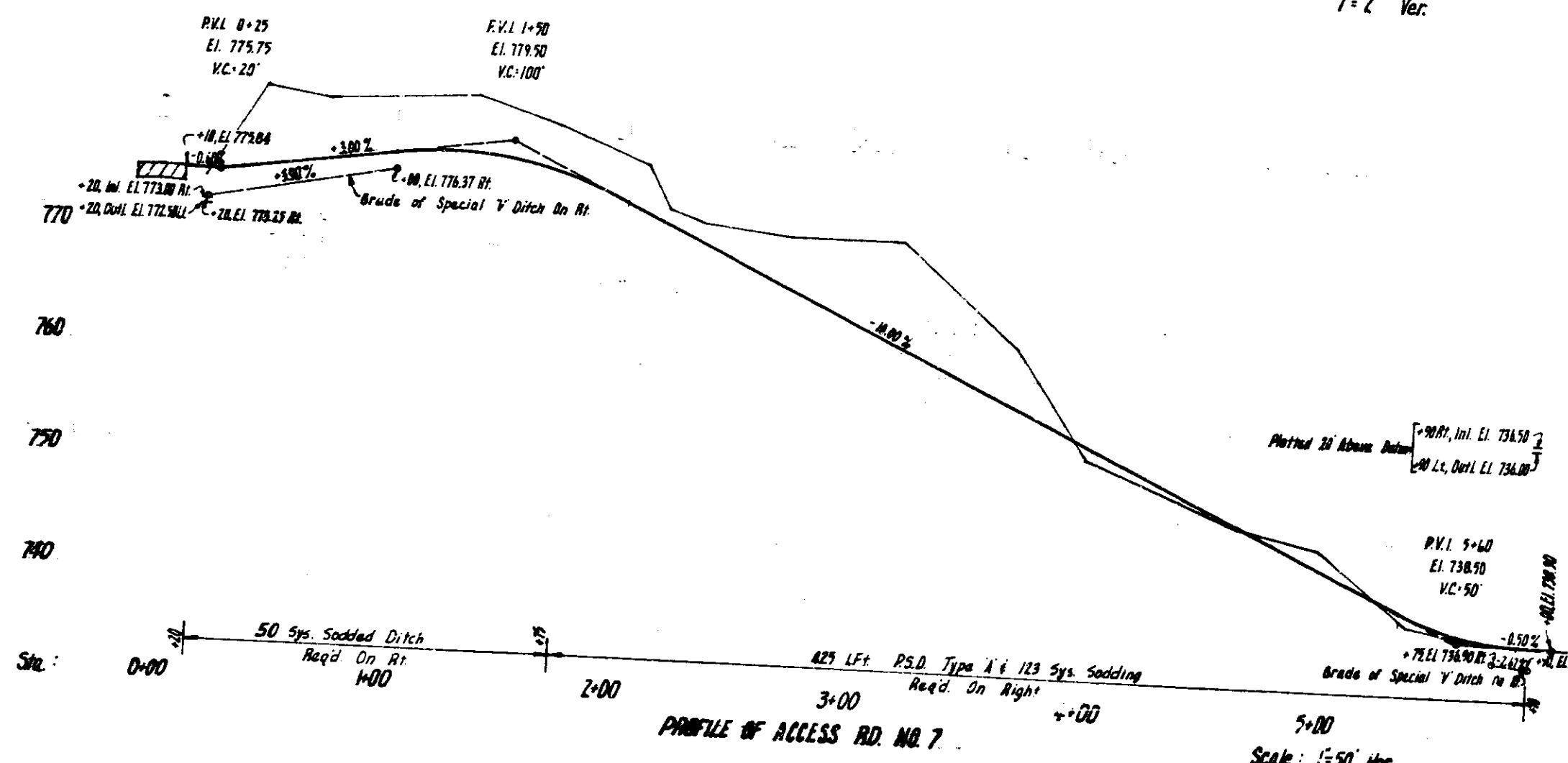
Drawn 10/11/65



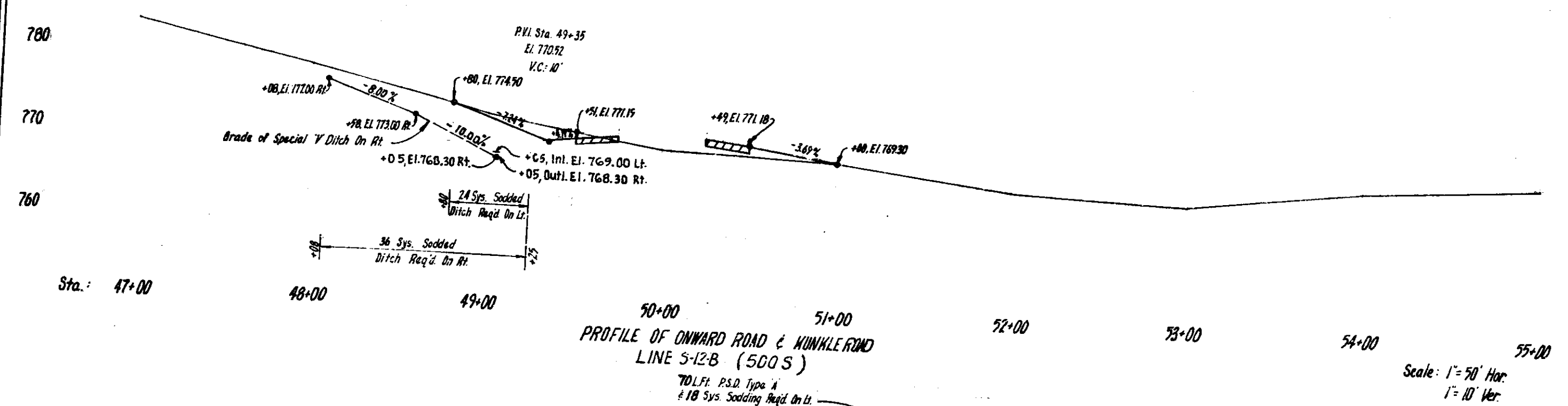
Scale: 1" = 50' Hor
1" = 2' Ver



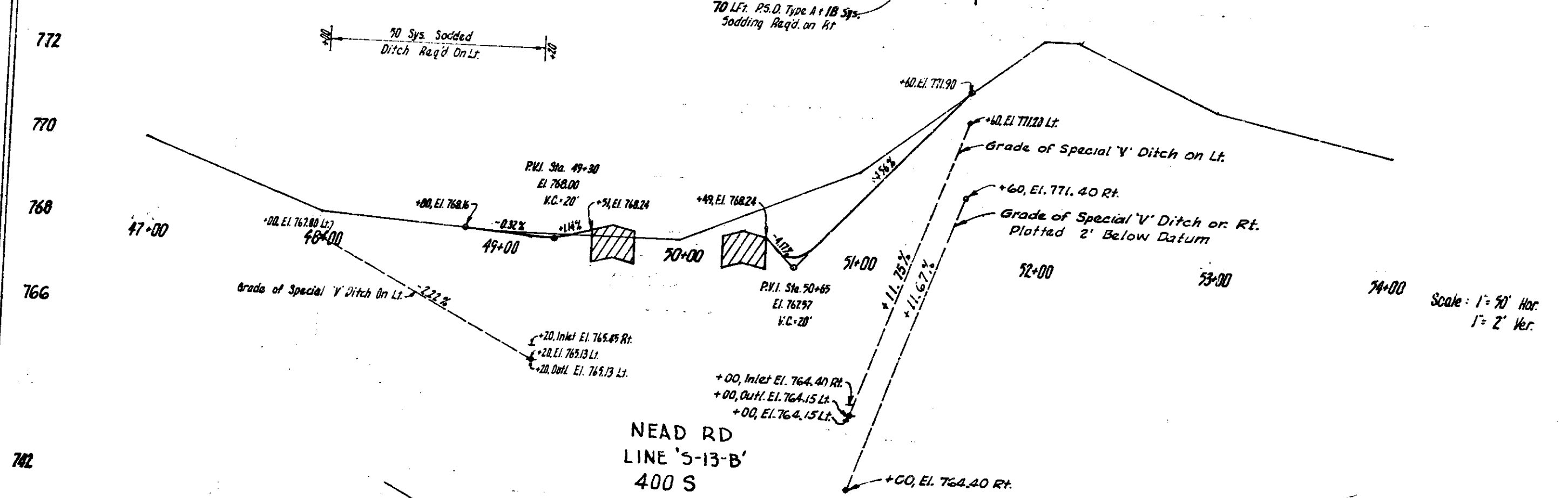
Scale: 1" = 50' Hor
1" = 2' Ver



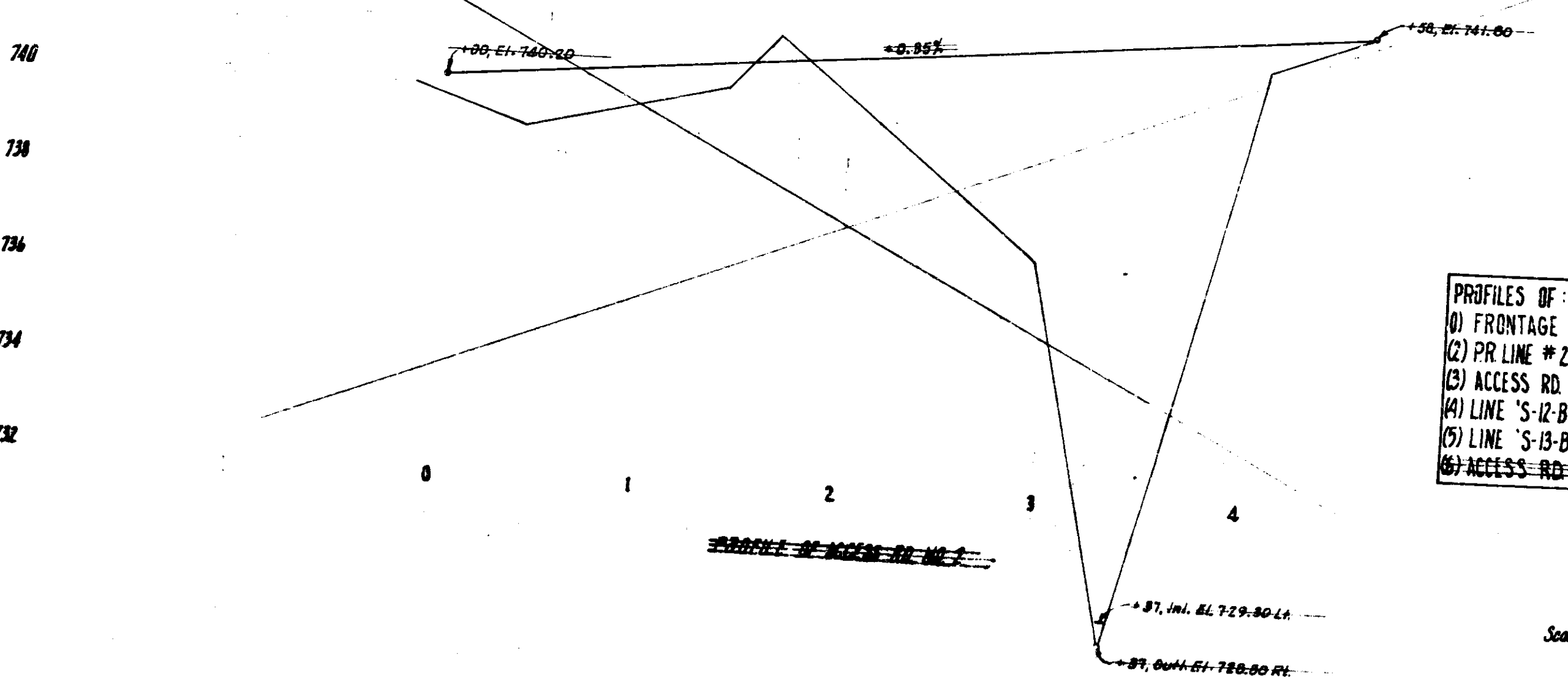
Scale: 1" = 50' Hor
1" = 10' Ver



Scale: 1" = 50' Hor
1" = 10' Ver



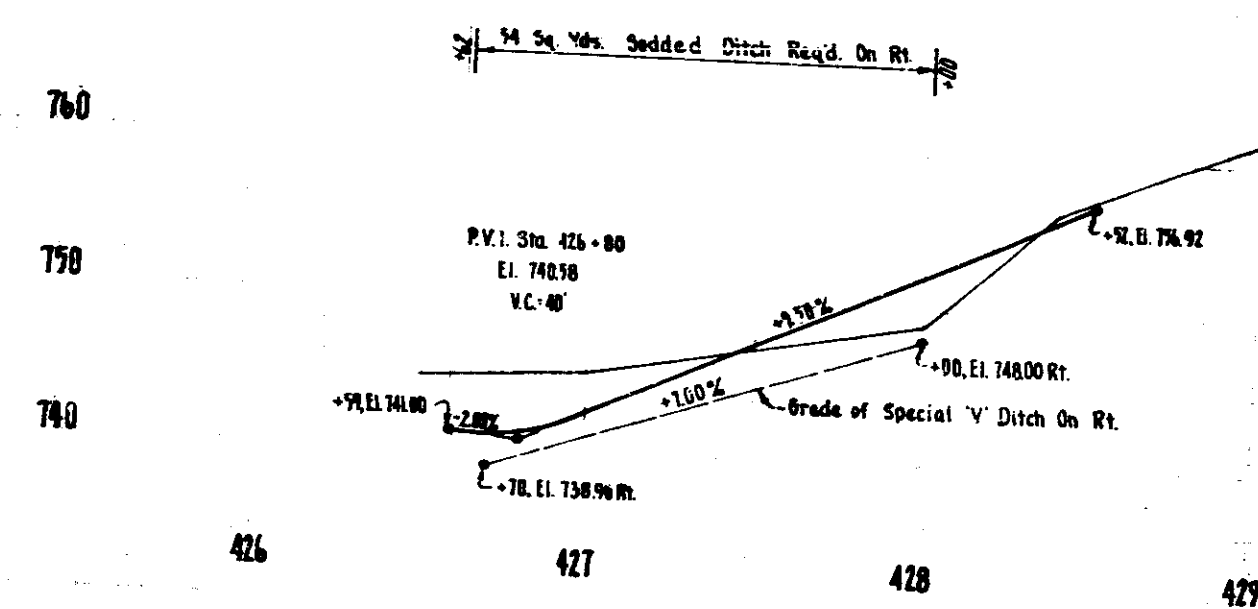
Scale: 1" = 50' Hor
1" = 2' Ver



Scale: 1" = 50' Horizontal
1" = 2' Vertical

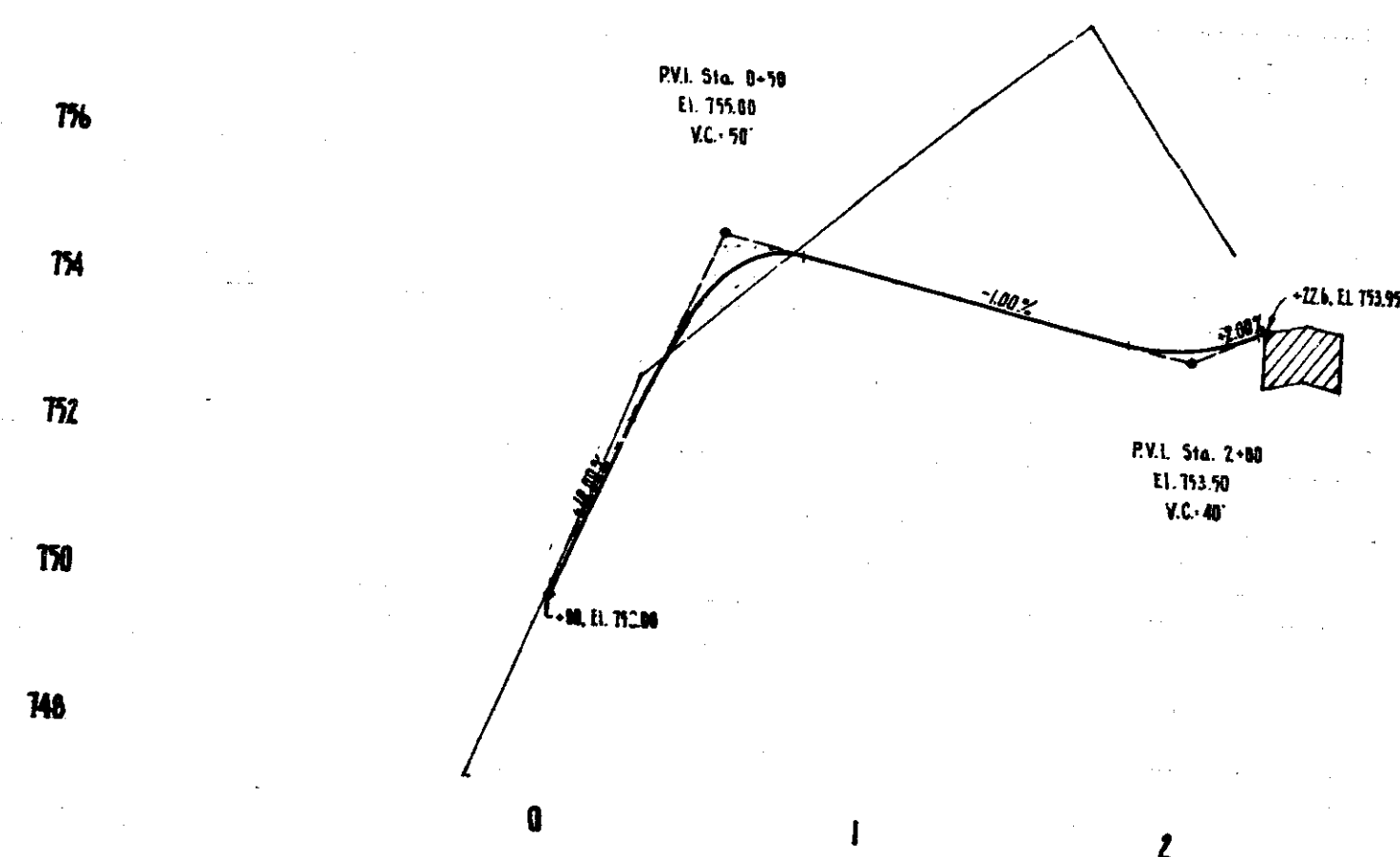
- PROFILES OF:
- (1) FRONTAGE RD NO. 2
 - (2) PR LINE #2
 - (3) ACCESS RD NO. 7
 - (4) LINE 'S-12-B'
 - (5) LINE 'S-13-B'
 - (6) ACCESS RD NO. 2 - VOID

10/1/65



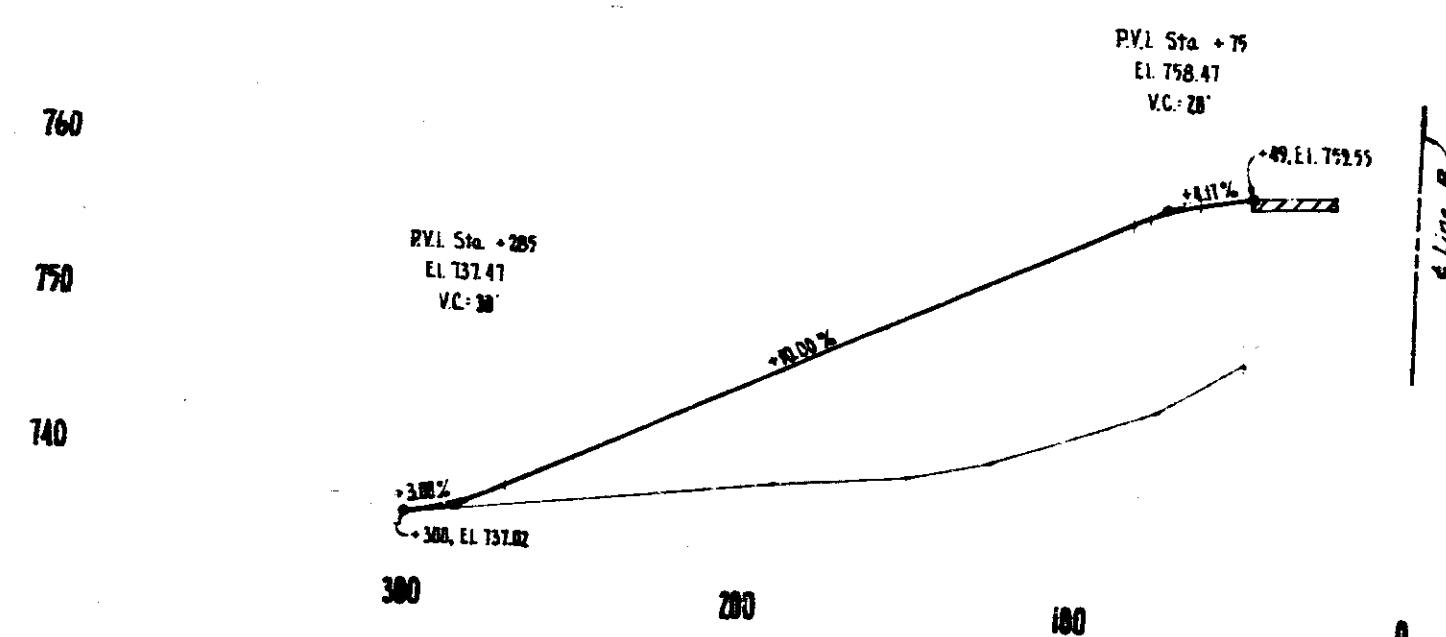
Profile Access Rd. No. 3

SCALE:
Horizontal - 1" = 50'
Vertical - 1" = 10'



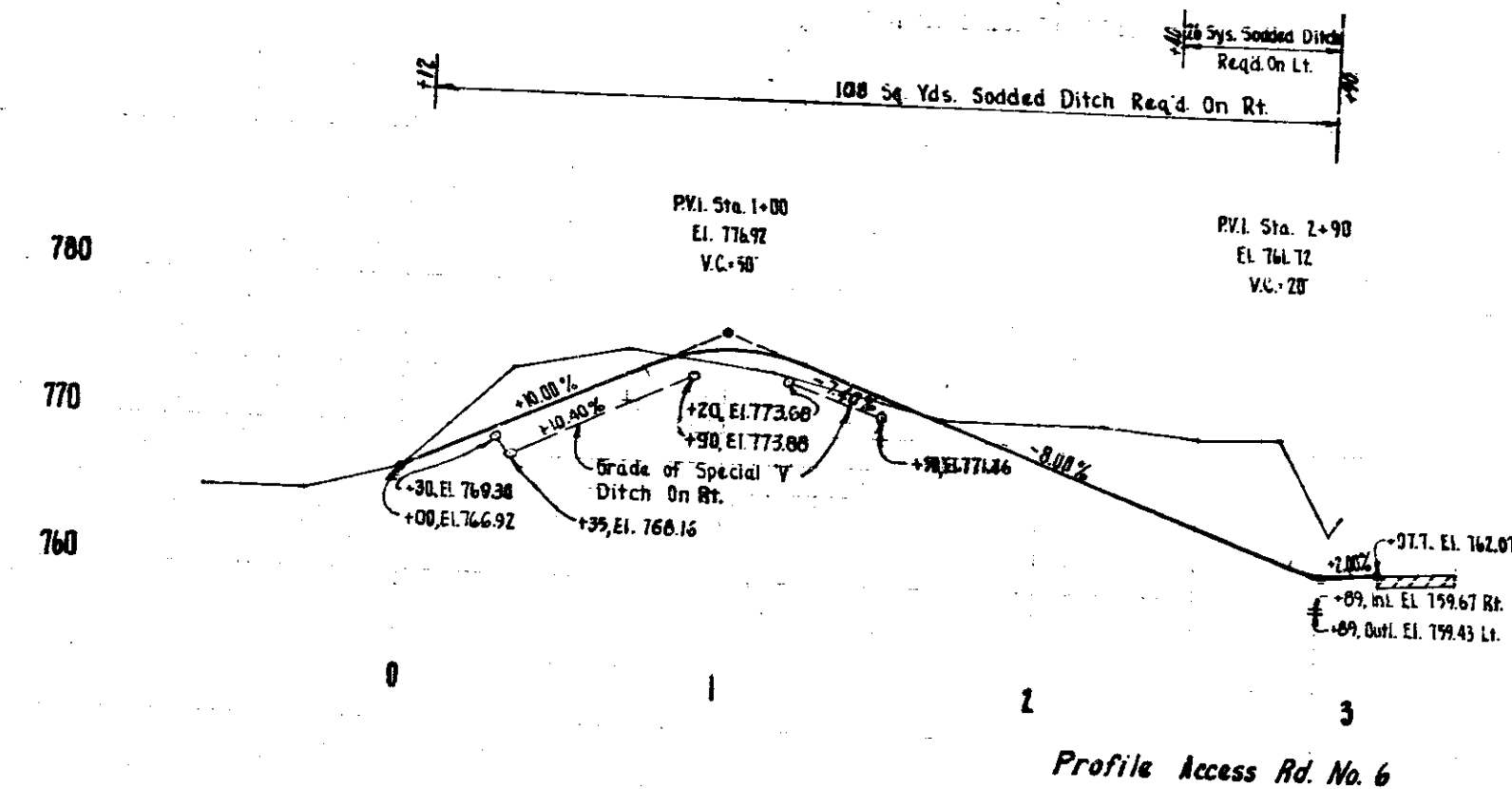
Profile Access Rd. No. 4

SCALE:
Horizontal - 1" = 50'
Vertical - 1" = 2'



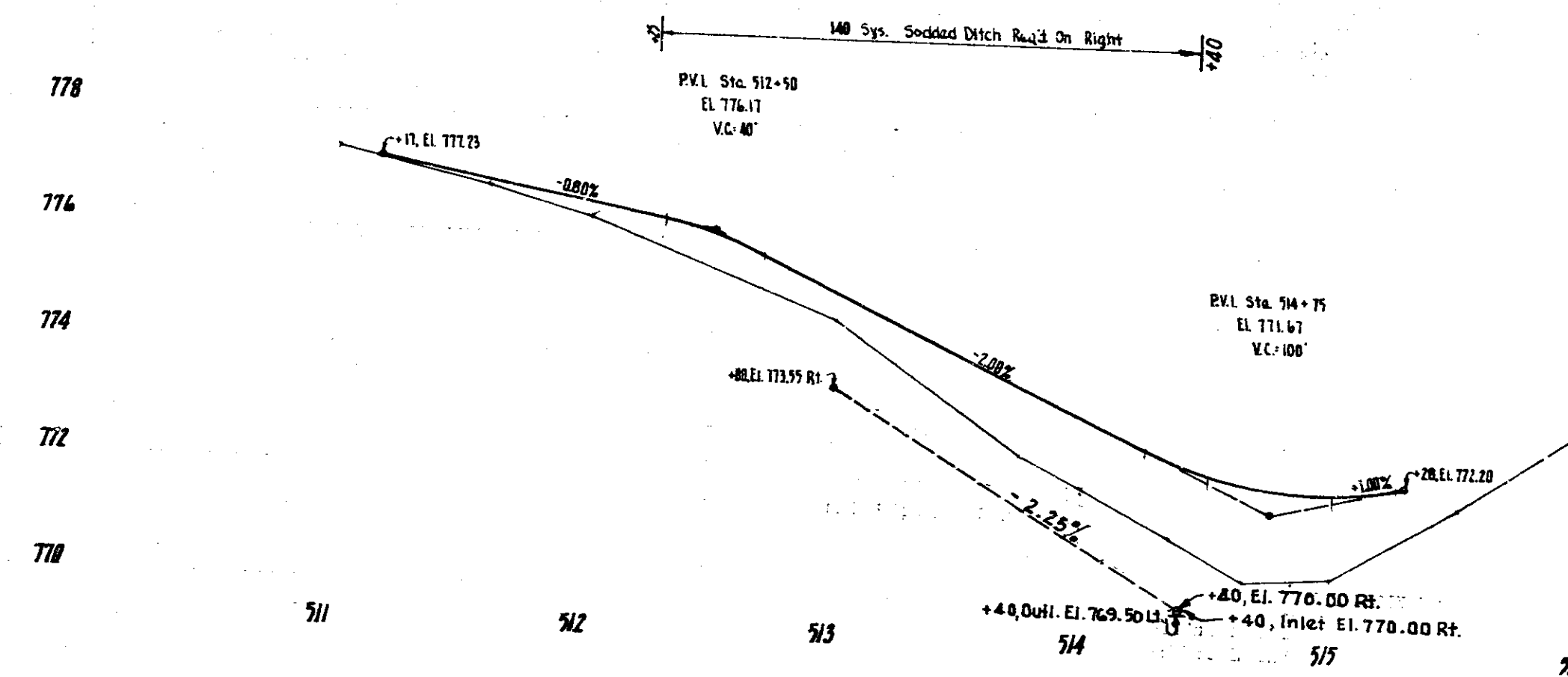
Profile Access Rd. No. 5

SCALE:
Horizontal - 1" = 50'
Vertical - 1" = 10'



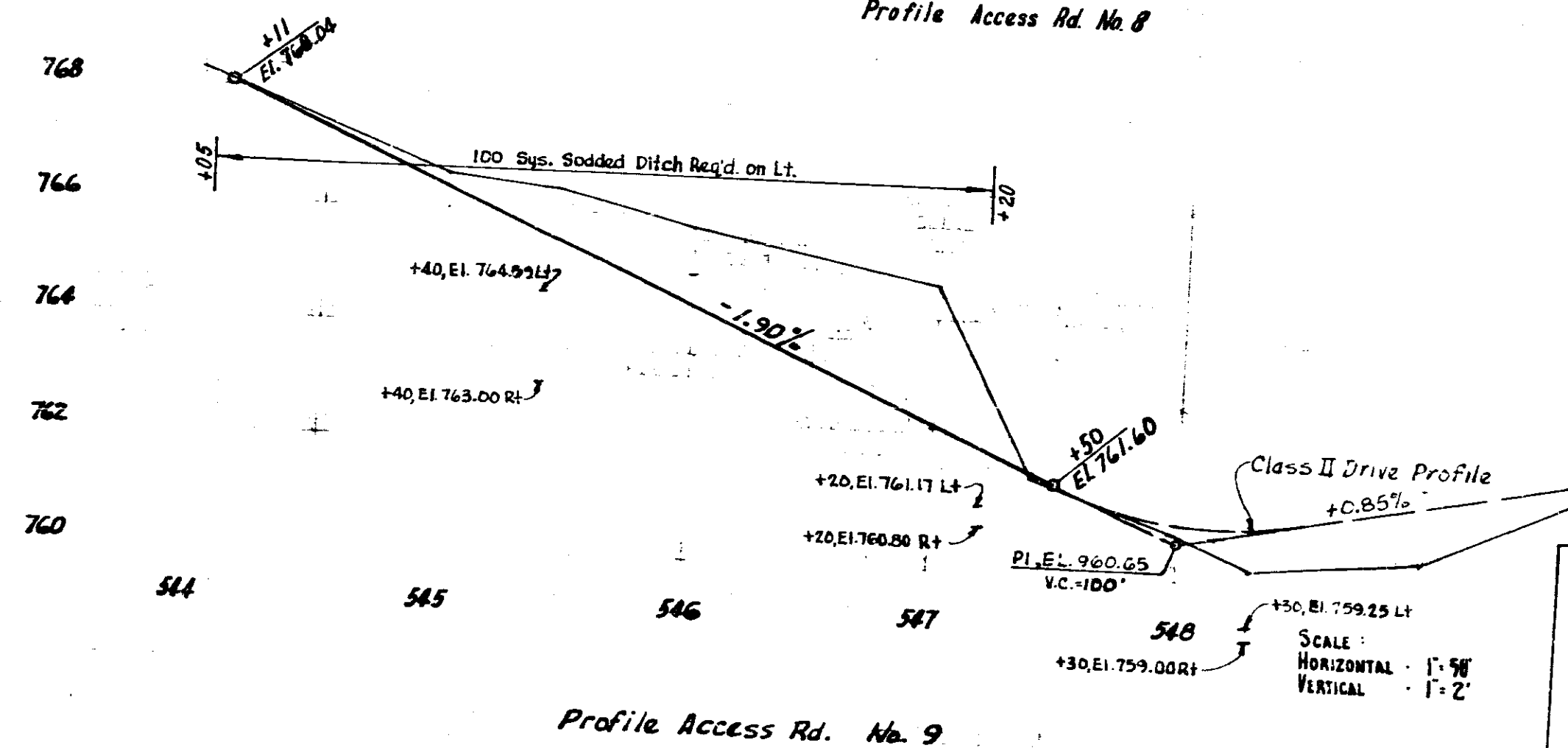
Profile Access Rd. No. 6

SCALE:
Horizontal - 1" = 50'
Vertical - 1" = 10'



Profile Access Rd. No. 8

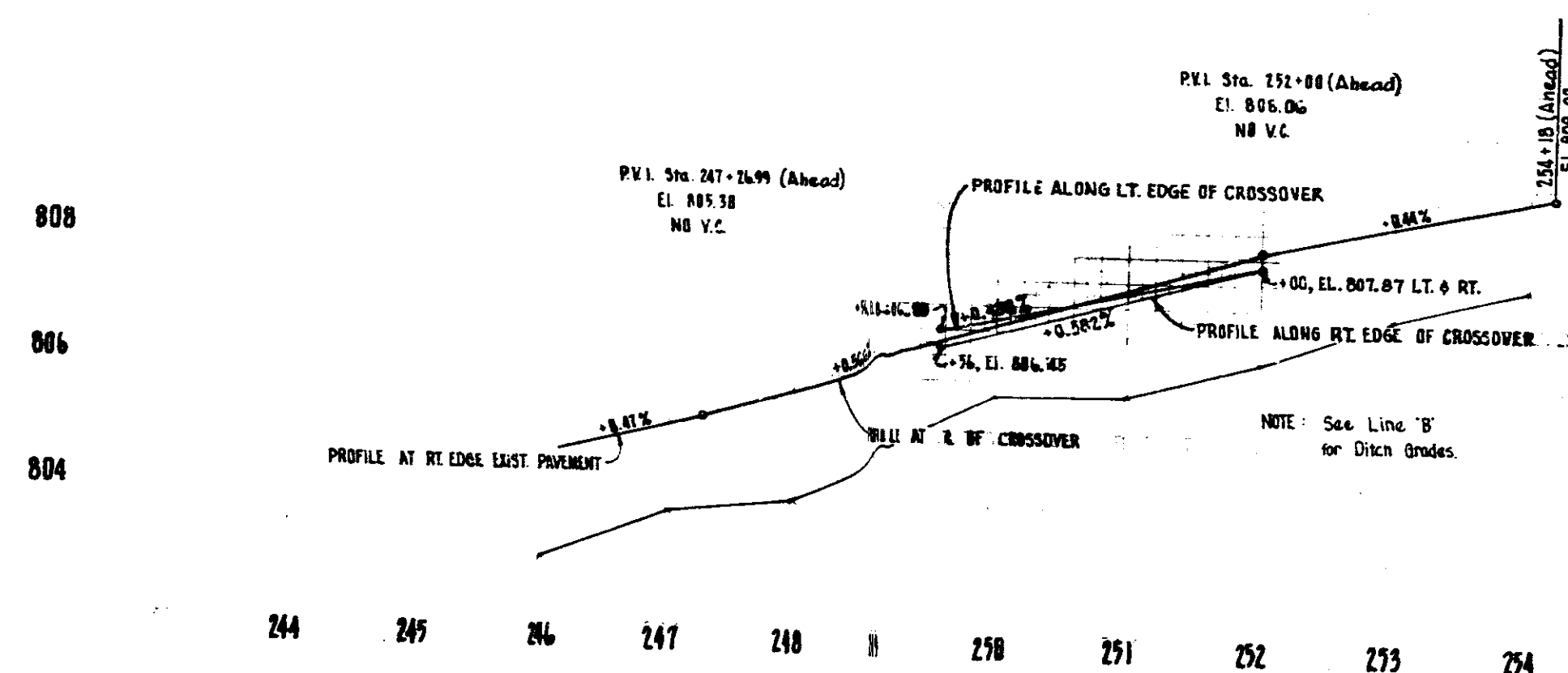
SCALE:
Horizontal - 1" = 50'
Vertical - 1" = 2'



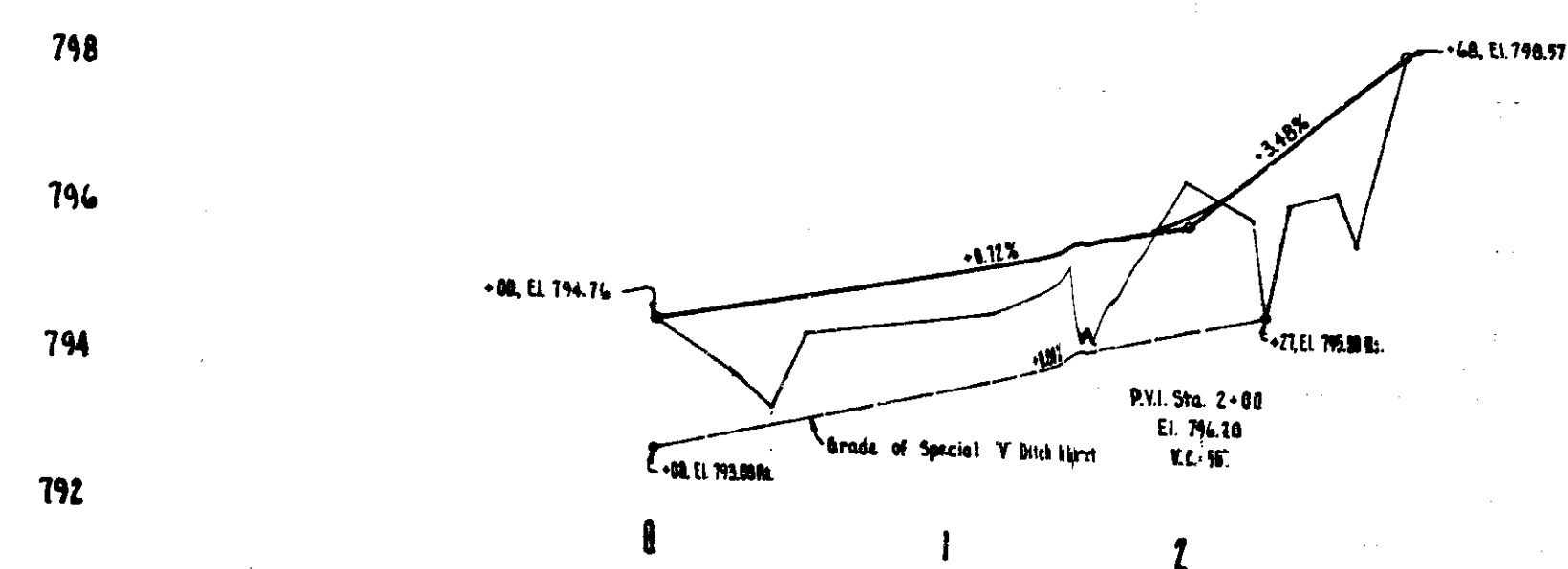
Profile Access Rd. No. 9

- PROFILES OF:
- (1) ACCESS RD. NO. 3
 - (2) ACCESS RD. NO. 4
 - (3) ACCESS RD. NO. 5
 - (4) ACCESS RD. NO. 6
 - (5) ACCESS RD. NO. 8
 - (6) ACCESS RD. NO. 9

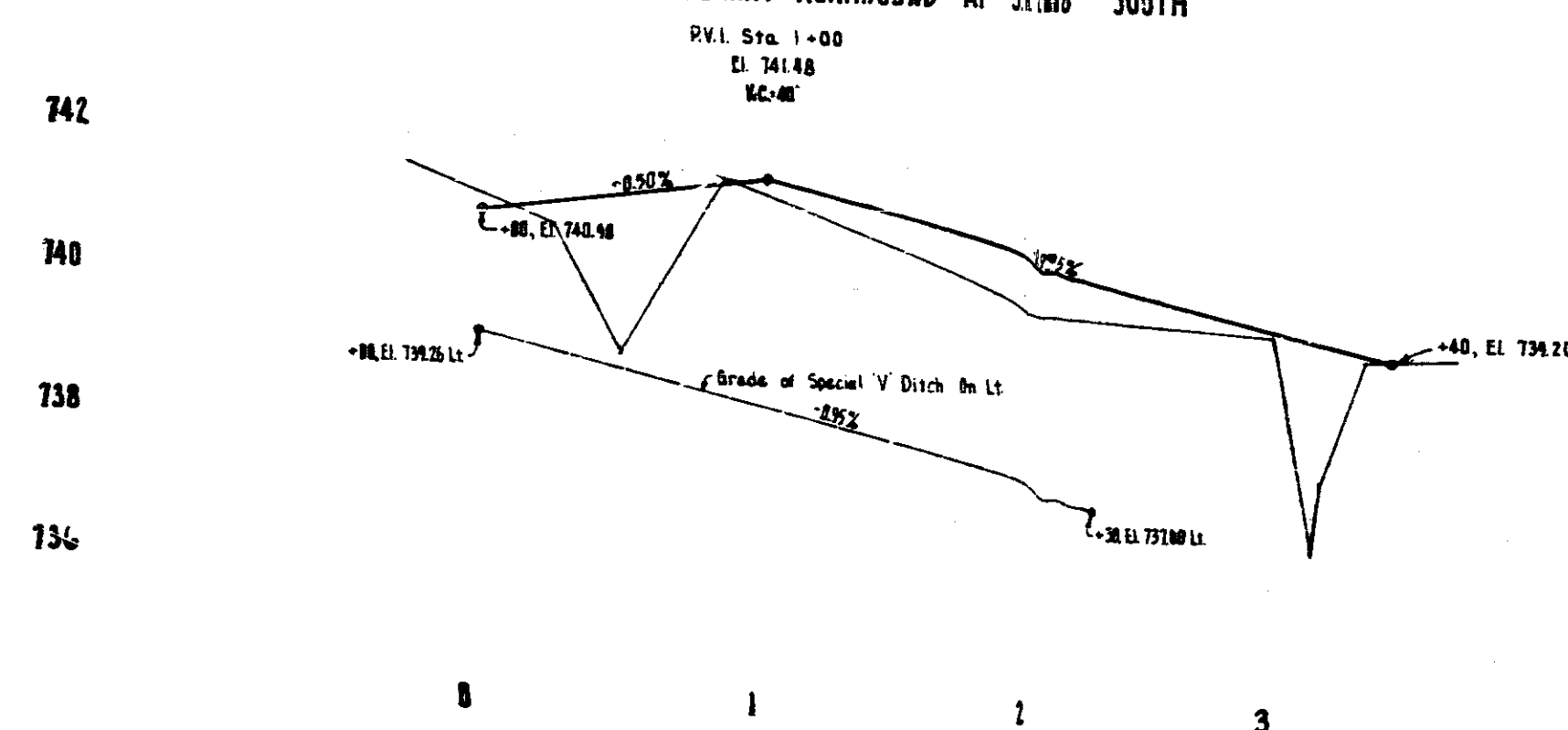
2/10/65



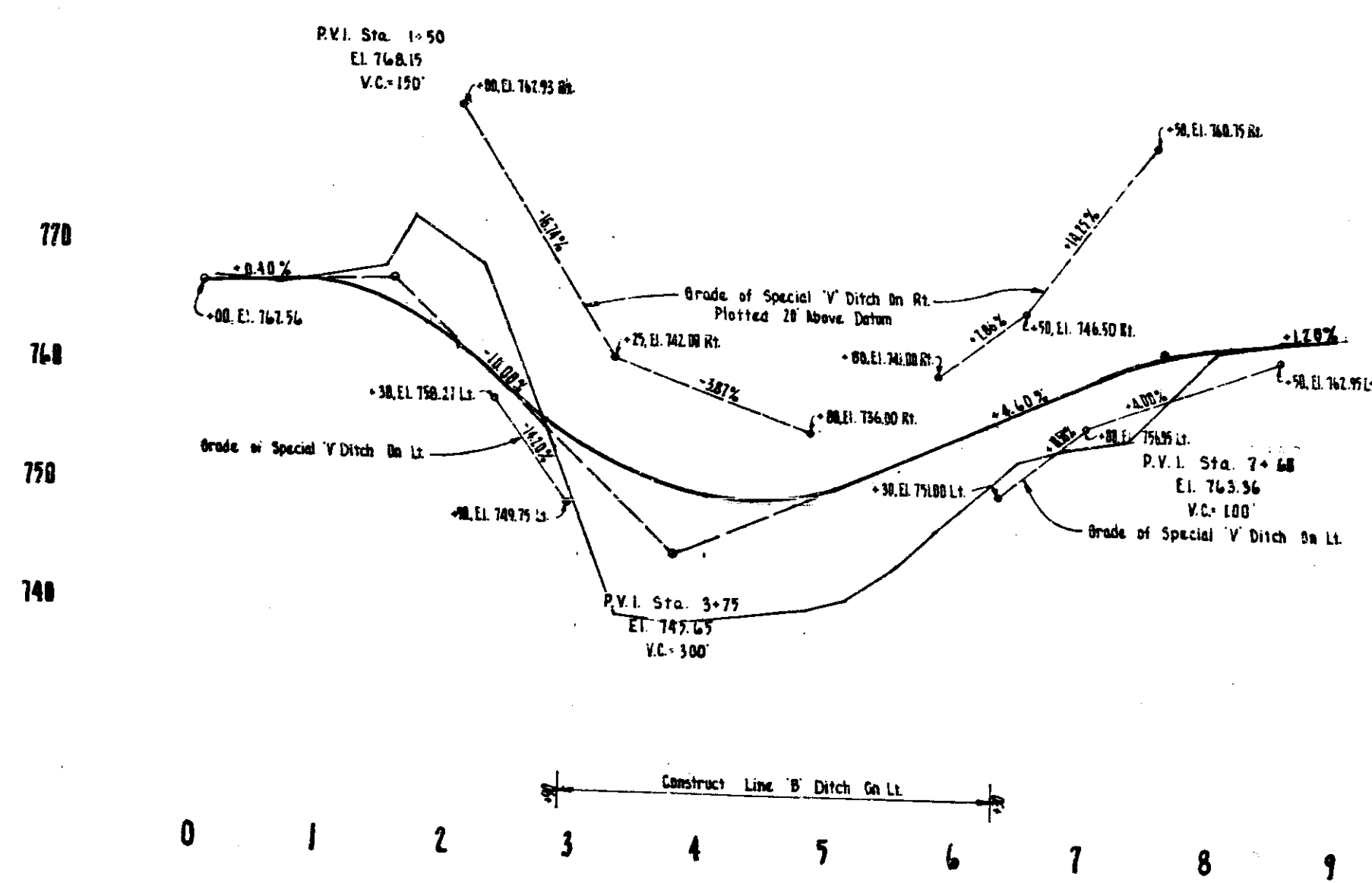
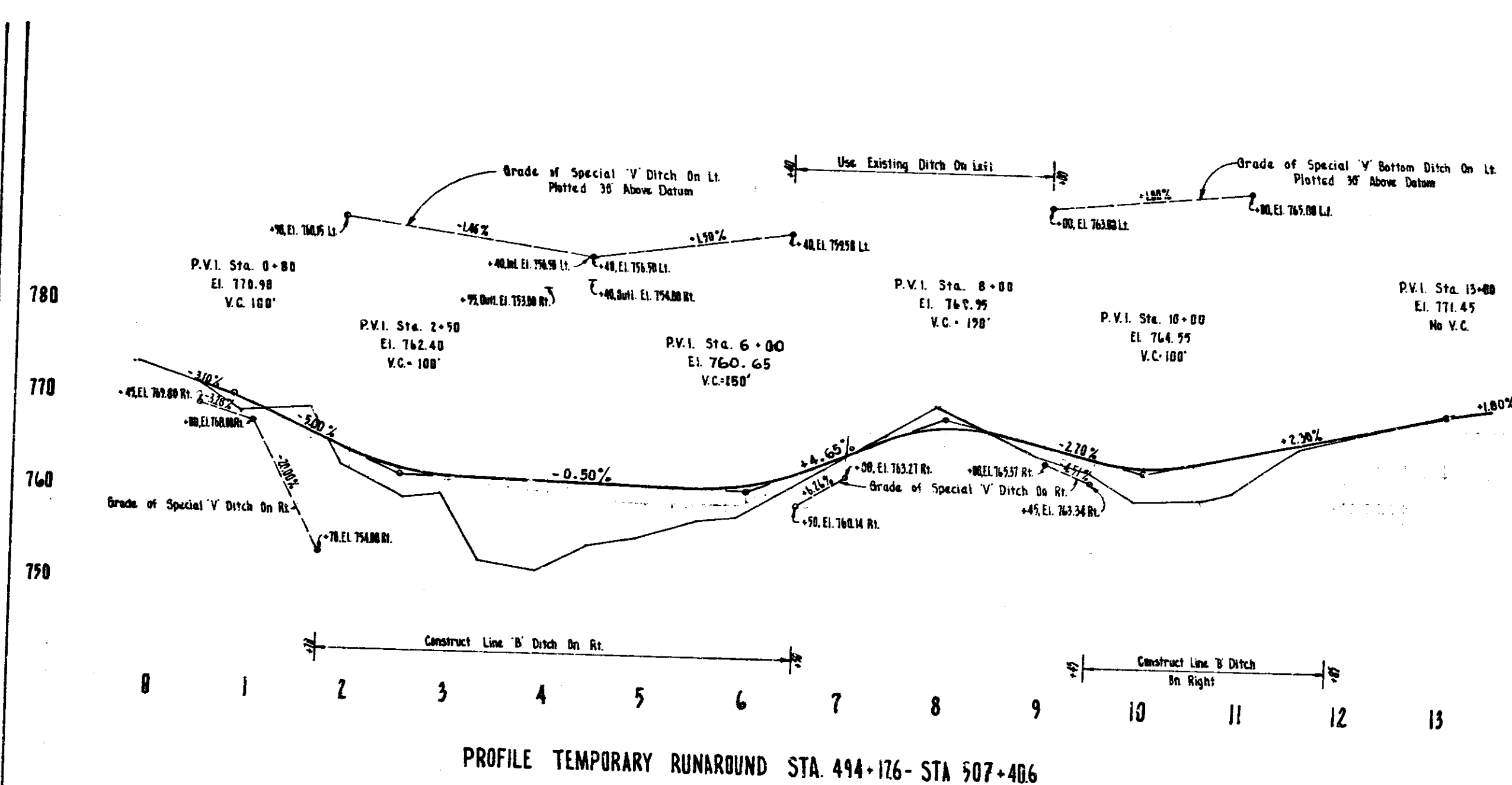
PROFILE OF TEMPORARY OVERPASS TYPE I
Sta. 242+30.67 - 254+18



PROFILE TEMPORARY RUNAROUND AT S118 SOUTH



PROFILE OF TEMPORARY RUNAROUND AT S118 NORTH



PROFILE TEMPORARY RUNAROUND STA. 461+426 - STA. 469+914

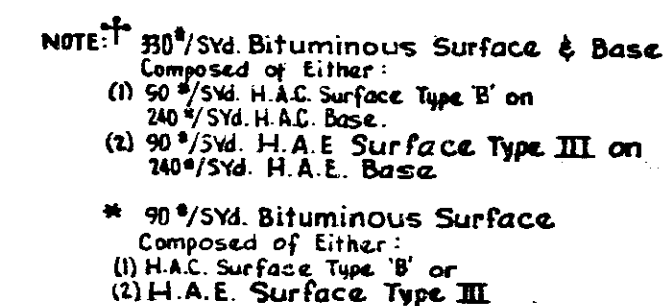
- PROFILES OF X-OVERS & RUNAROUNDS AT:
- (1) Sta. 242+30.67 - Sta. 254+18
 - (2) S.R. 218 South
 - (3) S.R. 218 North
 - (4) Sta. 461+426 - Sta. 469+914
 - (5) Sta. 494+176 - Sta. 507+406

10/1/65

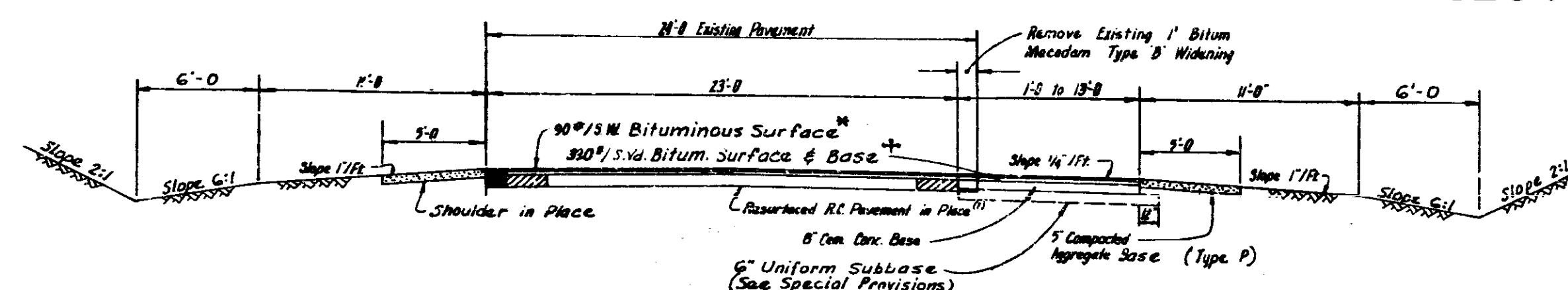
RESURFACE QUANTITIES NOT SHOWN ON THE
TABLE OF QUANTITIES AND APPROACHES

TEMPORARY CROSSOVER TYPE I

SCALE: 1"=30' PLAN

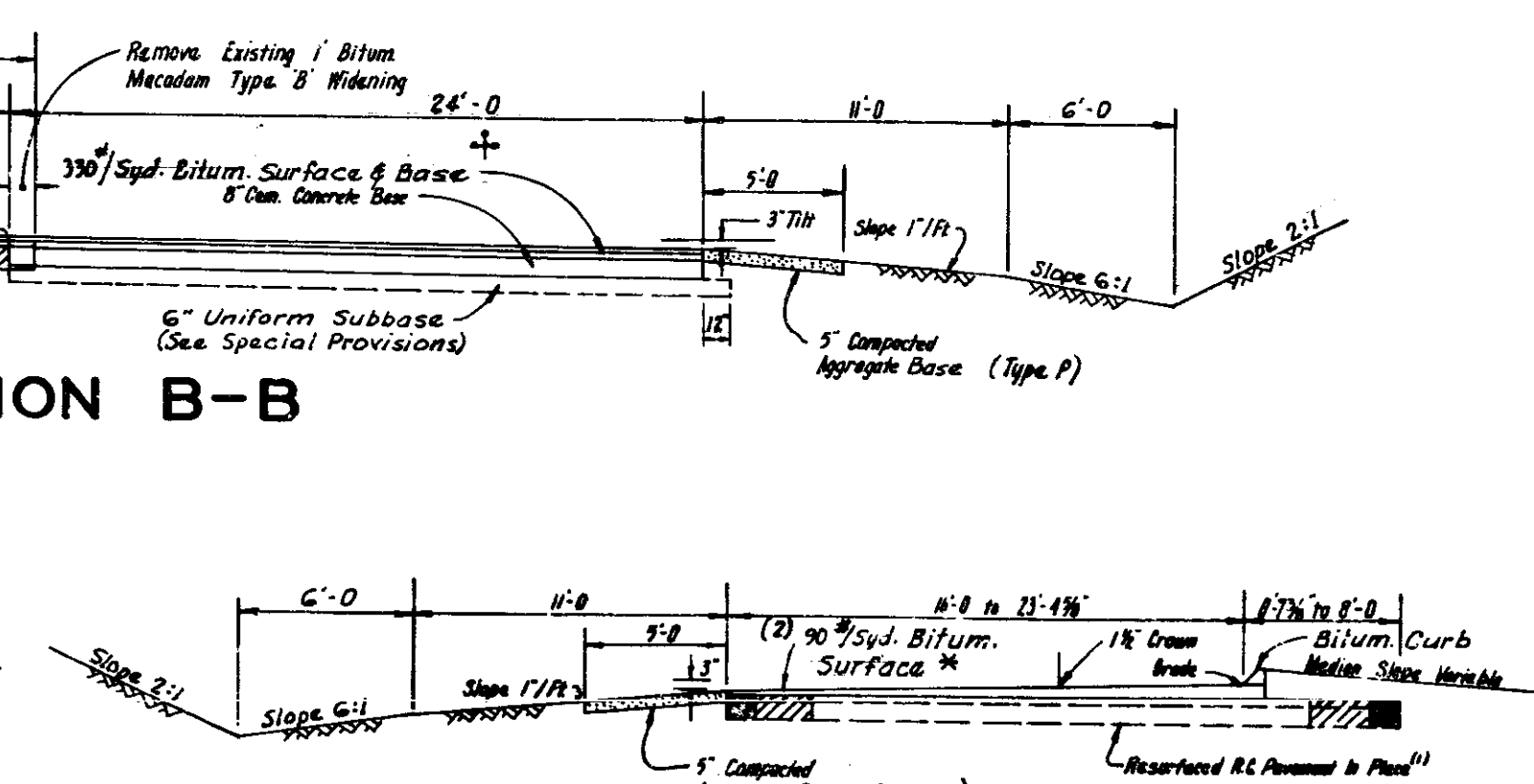


SECTION B-B




SECTION A-A

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



SECTION C-C

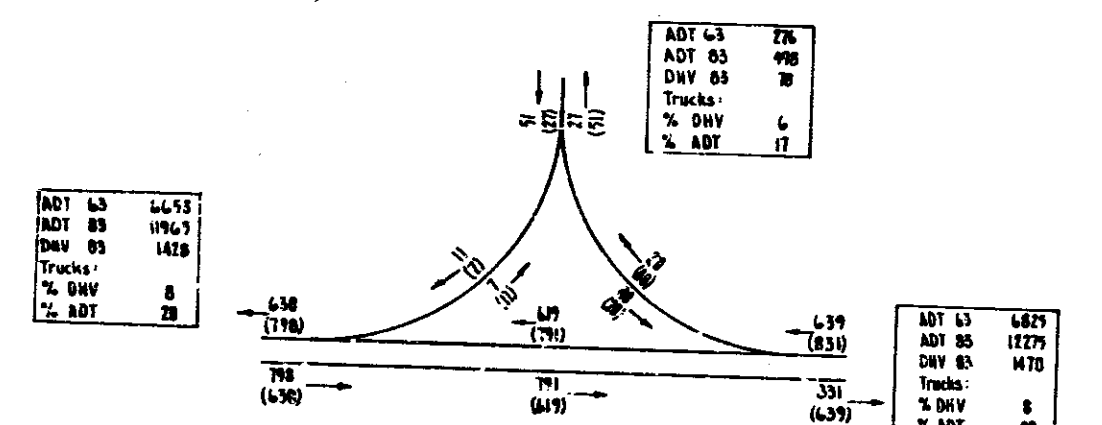
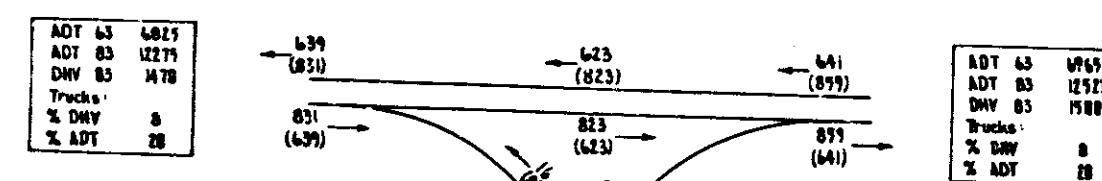
LEGEND

- ③ Longitudinal Joint
 - ④ Construction Joint
 - ⑦ Integral Concrete Curb Type 'B'
 - ② Anchor Bolt Joint
 - ⑤ Bituminous Center Curb Type 'B'
 - ⑥ Bituminous Curb
 - ⑧ 8" C.R.C. Pavement
 - ⑨ See Section 'A'-A.
 - ④ See Section 'B'-B.
 - ① See Section 'C'-C.
-  B" Reinf. Conc. Pavement

DETAILS

PROJ. No.	LINE	SHEET No.	F
F-70 (10)	B	25	

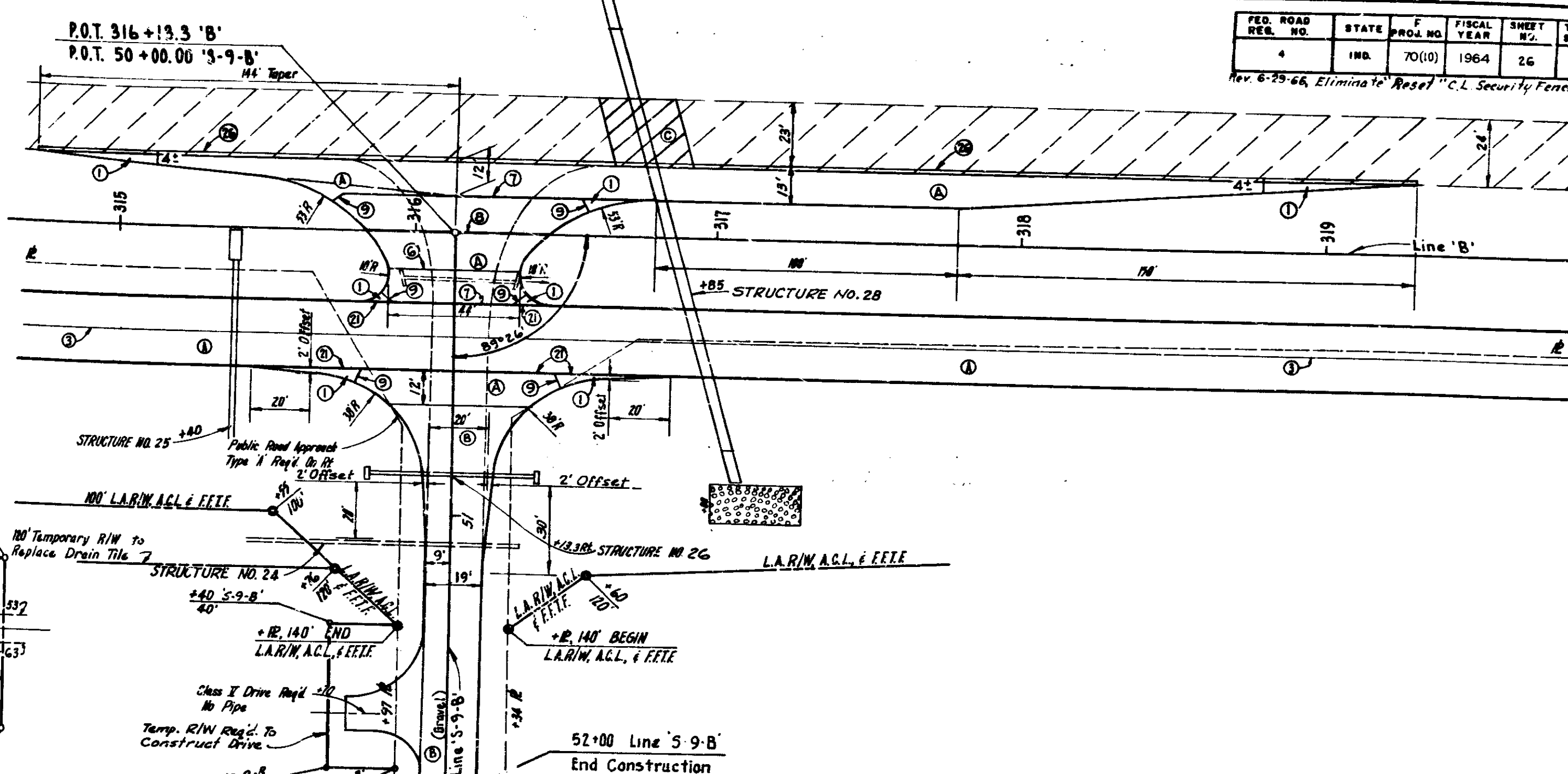
DESIGN HOURLY VOLUME ESTIMATED FOR 1983
AT TOWNSHIP LINE RD. (59-B)



DESIGN HOURLY VOLUME ESTIMATED FOR 1983
AT OLD S.R. 218 (5-B-B)

PROJ. ROAD	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(10)	1964	26	242

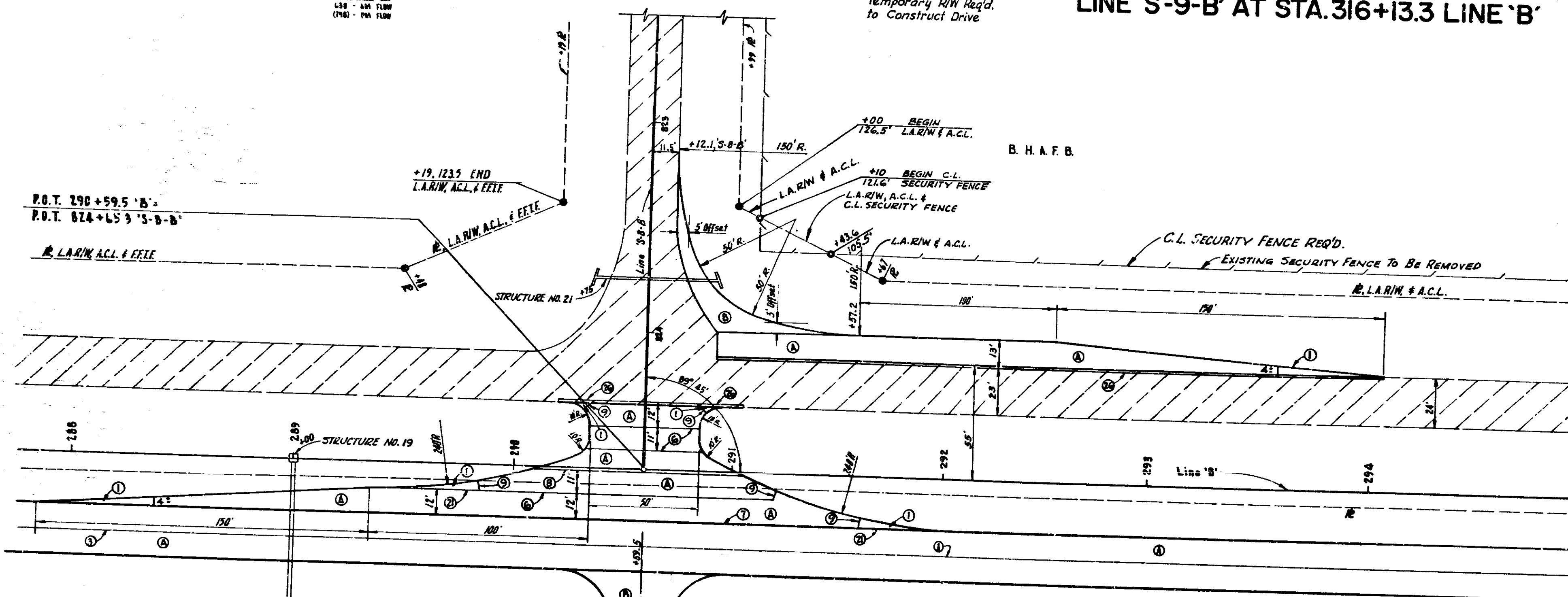
Rev. 6-29-66, Eliminate "Base" "C.L. Security Fence, Use New C.L.S.F.



INTERSECTION DETAIL AT TOWNSHIP LINE ROAD (800S)
LINE 'S-9-B' AT STA. 316+13.3 LINE 'B'

LEGEND

- ① 8" C.R.C. Pavement
- ② 330 W/S.V.D. Bituminous Mixture for Approaches over 5" Compacted Aggregate Type 'P'
- ③ 330 W/S.V.D. Mixture for Bituminous Shoulder over 8" Cement Concrete Base
- ④ Longitudinal Joint
- ⑤ Pavement to be Removed
- ⑥ Existing Pavement to Remain in Place
- ⑦ Ear Construction Type 'A'
- ⑧ Construction Joint
- ⑨ Keyway Joint
- ⑩ 1" Preformed Expansion Jt. w/Load Transfer Joint Filler
- ⑪ Keyway Construction Joint
- ⑫ Anchor Bolt Joint



INTERSECTION DETAIL AT OLD S.R. 218 (850S)
LINE 'S-8-B' AT STA. 290-59.5 LINE 'B'

DETAILS

Scale 1" = 30'

10/1/68

Rev. 10-17-68. Added Cl. II Dr. Sta 410+34, R.F. & Rev. Cl. IV Dr. Sta. 415+50.3, R.F. & Str. No. 68.

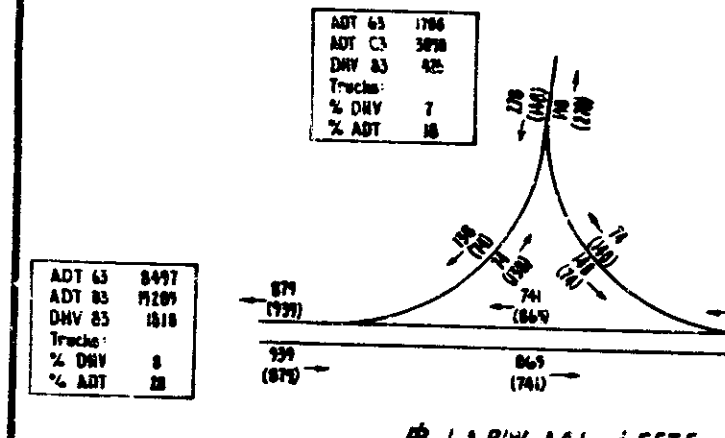
FED. ROAD DIST. NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(10)	27	242

Rev. 11-17-66. Add Class IV Drive L.R. of Line S-10-B at Sta 32+30.
Rev. 11-18-67. LARWACL on Rt. Sta. 410+00 - Sta. 420+00

INTERSECTION DETAIL AT S.R. 218 SOUTH LINE S-10-B AT STA. 356+87.51 P.R. LINE I

DESIGN HOURLY VOLUME ESTIMATED FOR 1983
AT S.R. 218 North (S-10-B)
DIRECTIONAL DIV
875 - 1st FLOW
(1975) - 2nd FLOW

DESIGN HOURLY VOLUME ESTIMATED FOR 1983
AT S.R. 218 South (S-10-B)
DIRECTIONAL DIV
875 - 1st FLOW
(1975) - 2nd FLOW



PR CURVE DATA
A = 1' 40" 33"
D = 1' 15"
T = 535.34'
L = 1070.36'
E = 6.25'

INTERSECTION DETAIL AT S.R. 218 NORTH LINE S-11-B AT STA. 415+50.9 P.R. LINE I

LEGEND

- ① 8" Continuously Reinforced Concrete Pavement
- ② 330/Sq. Yd Bitum. Mixture for Approaches
- ③ Over 5" Compacted Aggregate Base Type 'P'
- ④ 9" Compacted Aggregate Base Type 'P'
- ⑤ Longitudinal Joint
- ⑥ Pavement to be Removed
- ⑦ Ear Construction Type 'A'
- ⑧ Construction Joint
- ⑨ Keyway Joint
- ⑩ 1" Preformed Expansion Joint w/ Load Transfer
- ⑪ 1" " " Joint Filler
- ⑫ Keyway Construction Joint
- ⑬ 385/Sq. Yd Bituminous Surface & Base Over Compacted Aggregate Base Type 'P' & Subbase. See Typical Section on Plan Sheet #4

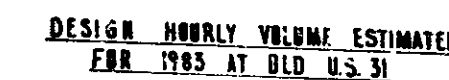
DETAILS

Scale 1"=30'

Rev. 2-30-66 to locate existing building belonging
THERMOGAS CO. of PERU.

Rev. 2-30-66 to locate existing building belonging
THERMOGAS CO. of PERU.

DIRECTIONAL DIV
652 - AM FLOW
(198) - PM FLOW



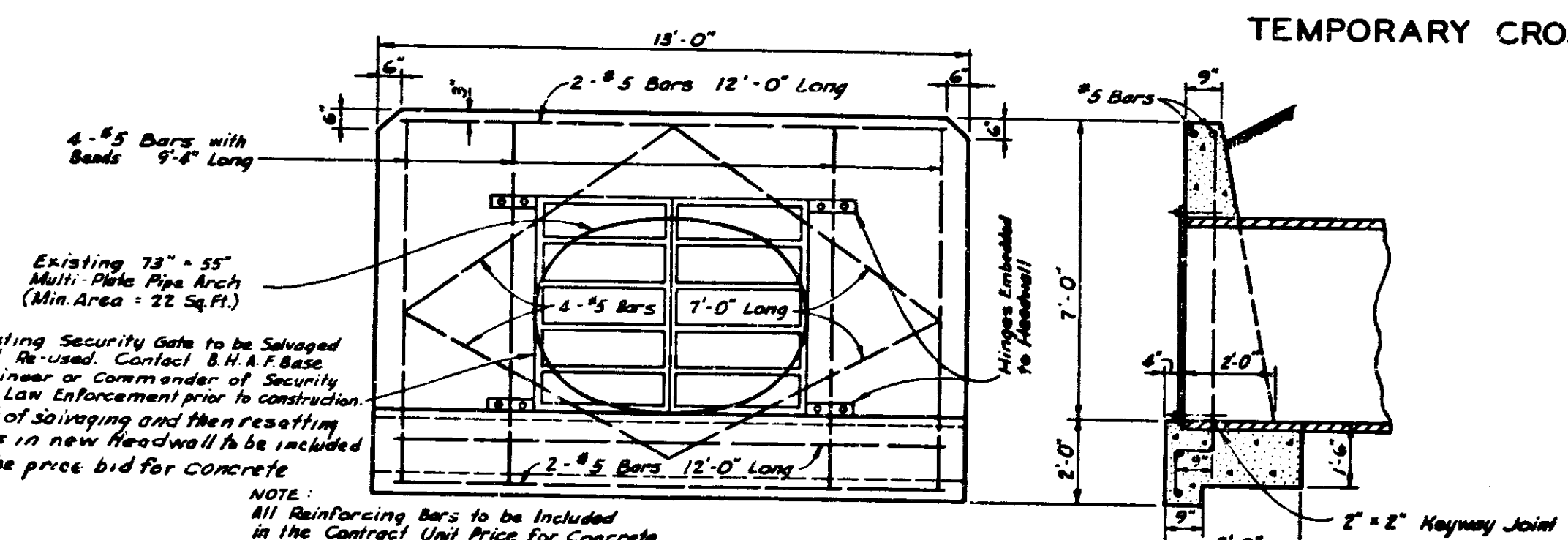
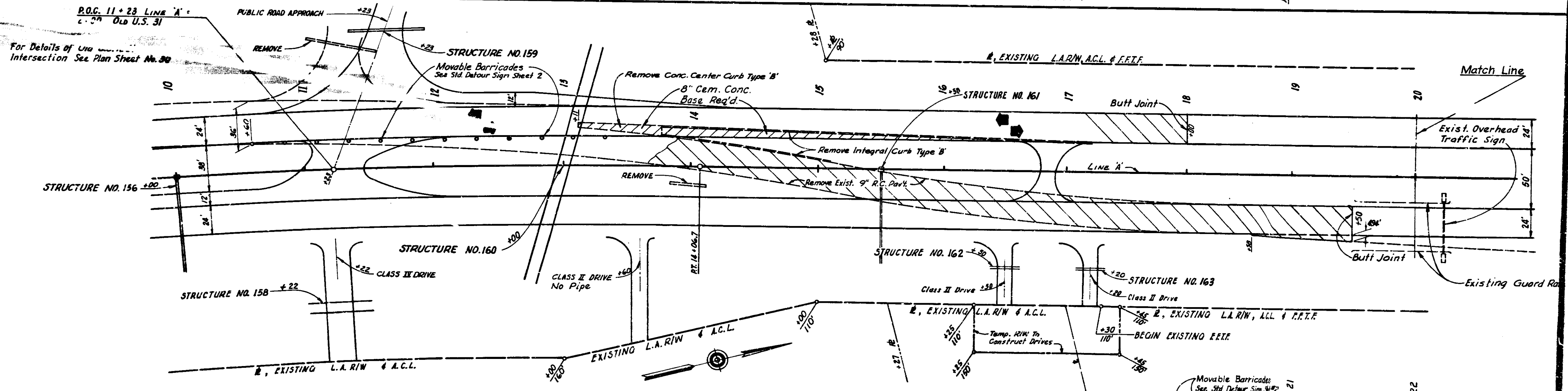
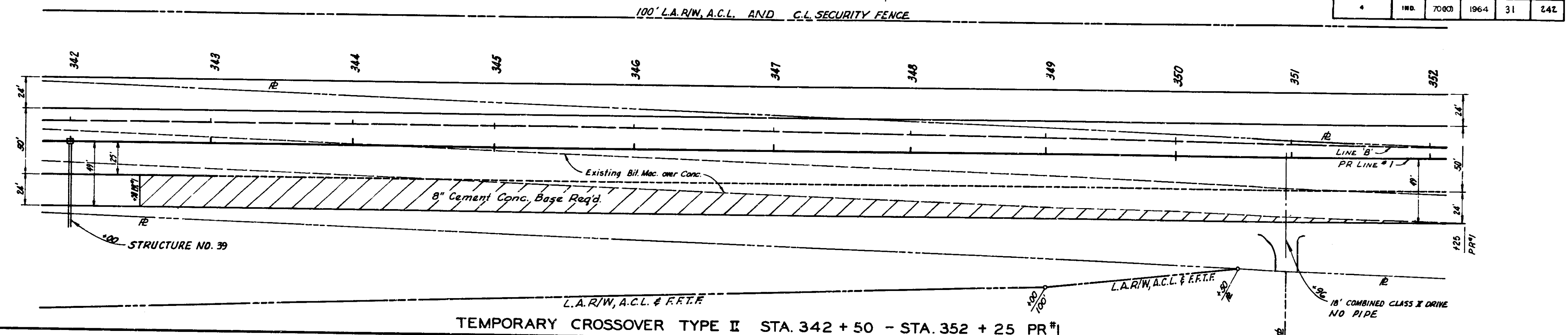
DIRECTIONAL DMV
788 - AM FLOW
1186 - PM FLOW



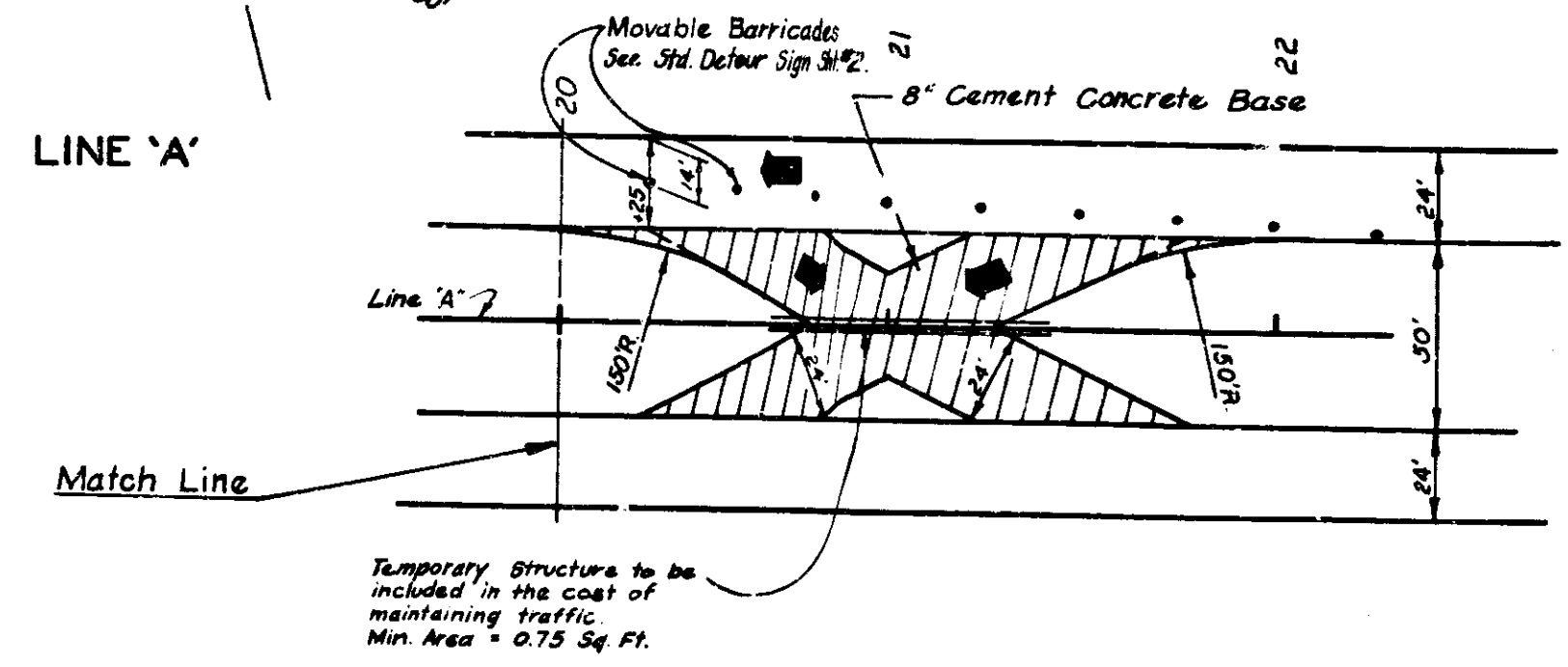
10/1/65 Bulb

Proj. No.	LINE	SHEET No.	FILE
F-70 (10)		30	

FED. ROAD DIST. NO.	STATE	F. PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	7000	1964	31	242



DETAIL OF HEADWALL AT STA. 341 + 37 ON LEFT
Scale: 3/8" = 1'-0"



DETAILS

SCALE: 1" = 40'

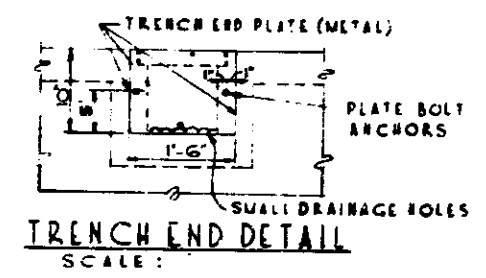
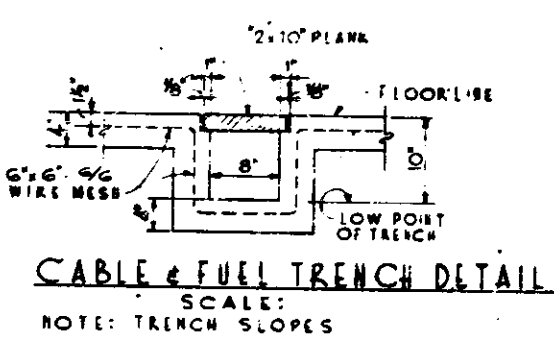
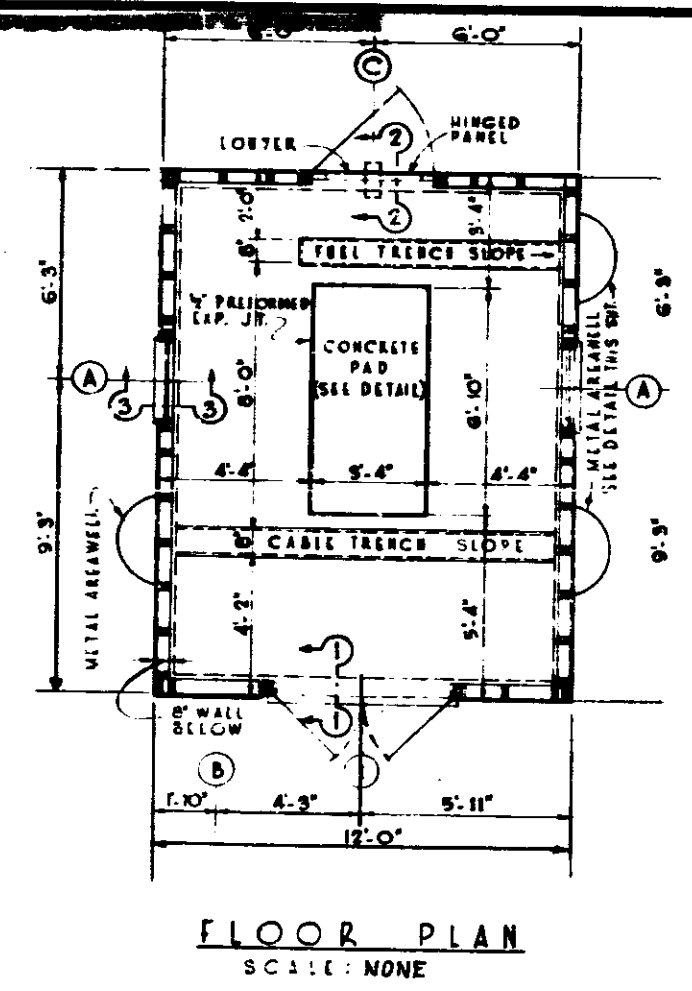
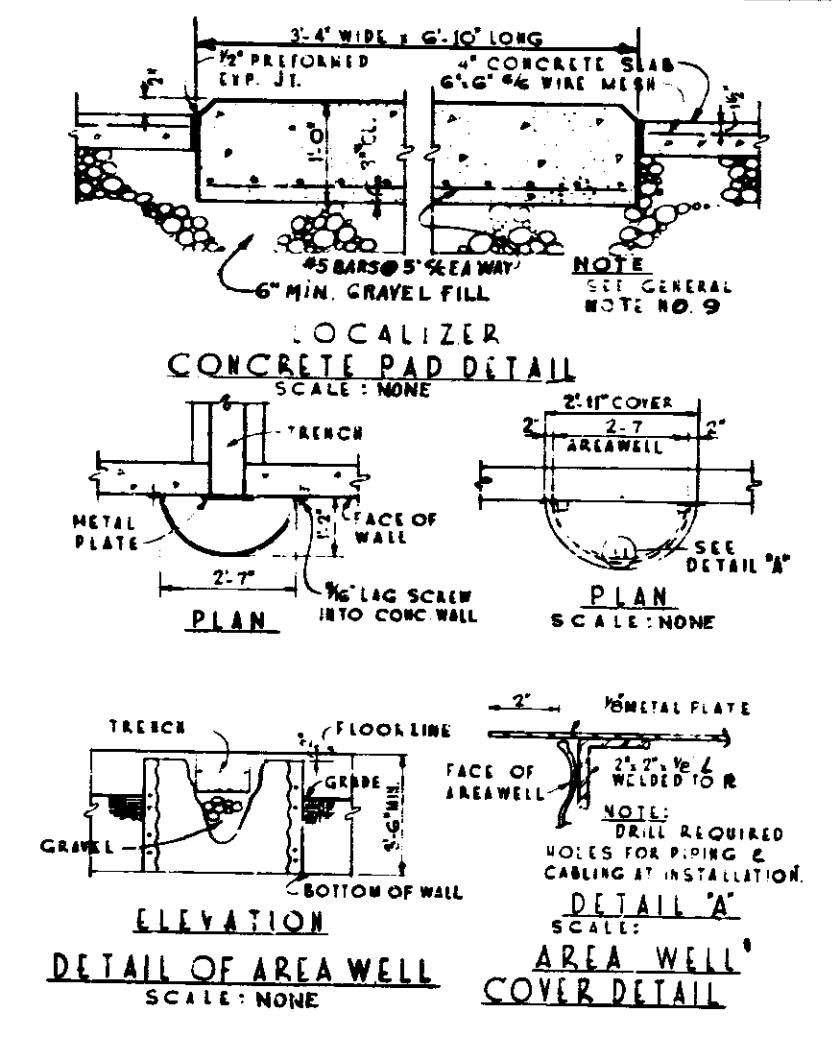
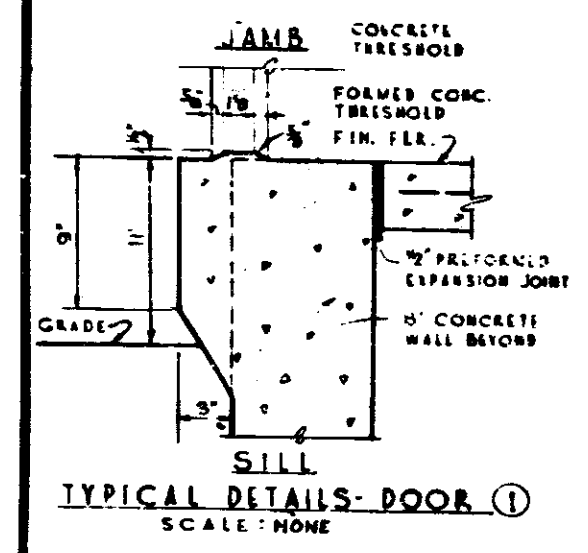
Proj. No.	LINE	SHEET NO.	FILE
F. 70 (10)		31	

SCALE: 1" = 40'

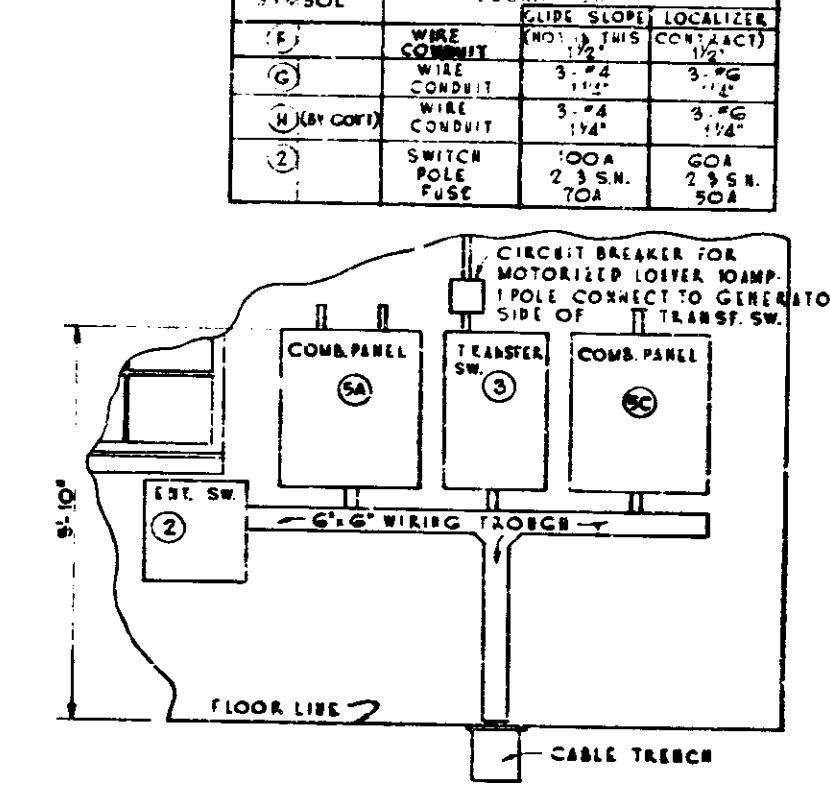
EWB 10/1/6

Proj. No.	LINE	SHEET No.	F. c.
F-70 (10)	B	37	

FEDERAL ROAD DISTRICT NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70 (10)	1964	32-A	242



ELECTRICAL EQUIPMENT SCHEDULE (EXISTING)	
PANEL	DESCRIPTION
1	ENTRANCE SERVICE SWITCH, SEE TABLE 1
2	AUTOMATIC POWER TRANSFER SWITCH 10 KW 18 120/240V
3	ELECTRIC UNIT HEATER, CONTACTOR 2 1/2 HP 240V 18
4	TRANSFORMER 15 KVA 18 7200/240V 18 1/2 OIL FILLER CATCHES & MOUNTING BOX
5	TRANSFORMER 10 KVA 18 7200/240V 18 1/2 OIL FILLER CATCHES & MOUNTING BOX
6	COMBINATION PANEL, SEE PANEL SCHEDULE
7	COMBINATION PANEL

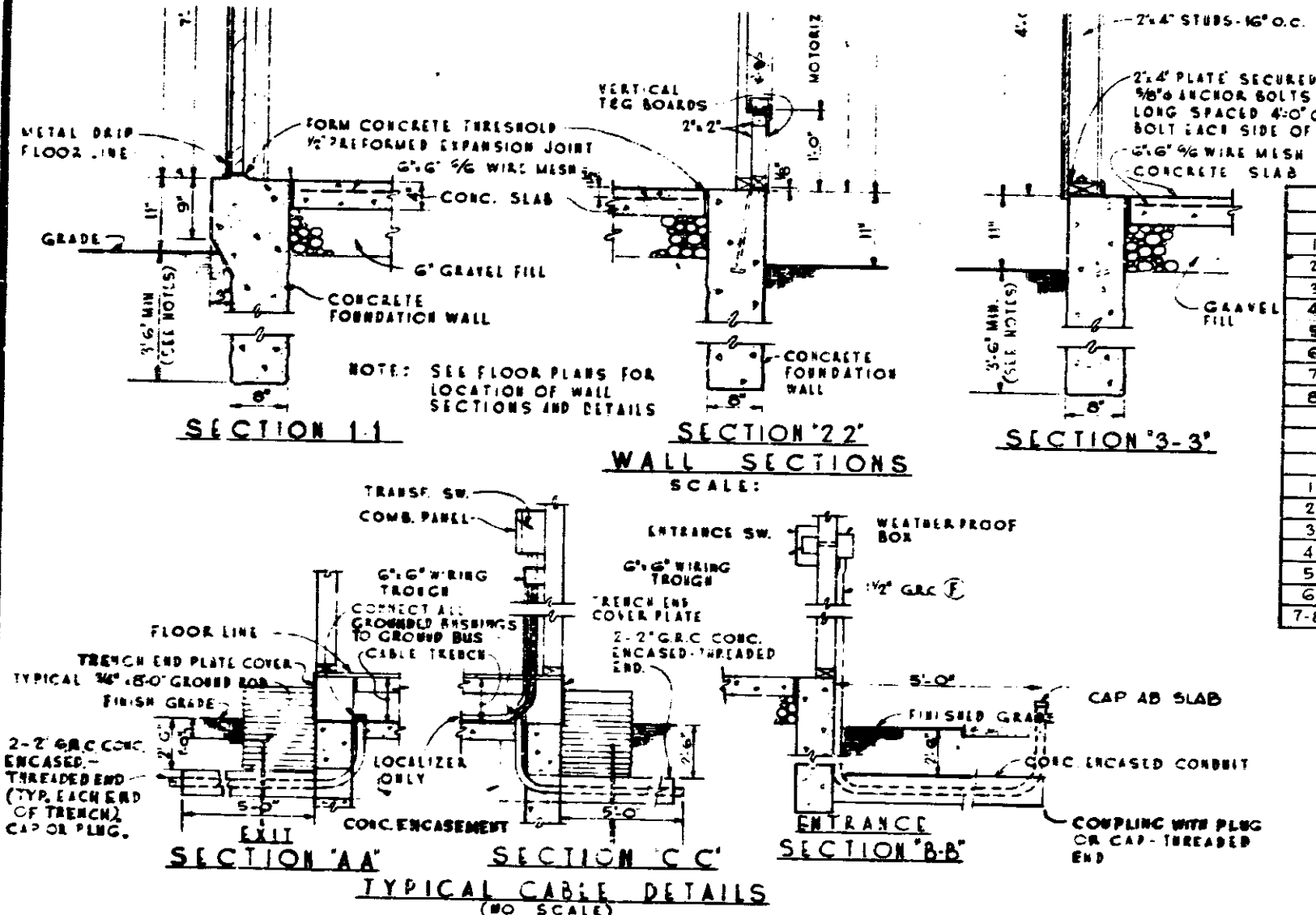


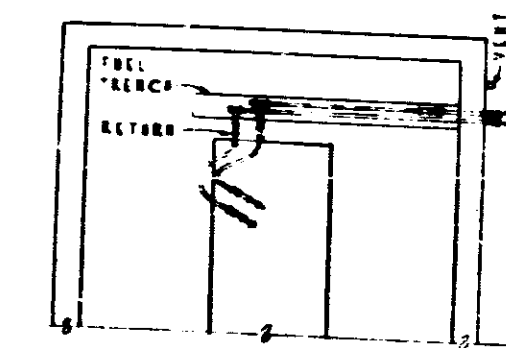
GENERAL NOTES

- EXCAVATION - GENERAL EXCAVATION SHALL BE SUCH THAT FOUNDATION WALL SHALL REST ON UNDISTURBED SOIL IF THE 3'-6" MIN. SHOWN DOES NOT DO SO.
- CONCRETE: ALL CONCRETE SHALL BE 2500 LBS./SQ. FT.
- REINFORCING STEEL: ALL REINFORCING STEEL SHALL BE PERFORMED OF INTERMEDIATE OR HARD GRADE. DESIGN STRESS: 20,000 LBS./SQ. IN.
- CEMENT: GRADE OF STRUCTURAL CEMENT SHALL BE OF A STRESS GRADE SPECIES WITH AN ALLOWABLE FINER STRESS IN BINDING OF 1450 LBS./SQ. IN. MINIMUM.
- ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT SHALL BE MOVED AND/OR REINSTALLED AT THE NEW LOCATION. ALL SUCH ITEMS SHALL BE REPAIRABLE DURING THE RELOCATION. ALL SUCH REPAIRS OR REPLACEMENTS SHALL BE AT NO ADDITIONAL COST.
- FOUNDATION, SLABS AND OTHER EXISTING CONSTRUCTION NOT MOVED TO THE NEW LOCATION SHALL BE DEMOLISHED AND DISPOSED OF AS DIRECTED BY THE PROJECT ENGINEER IN CHARGE OF CONSTRUCTION.

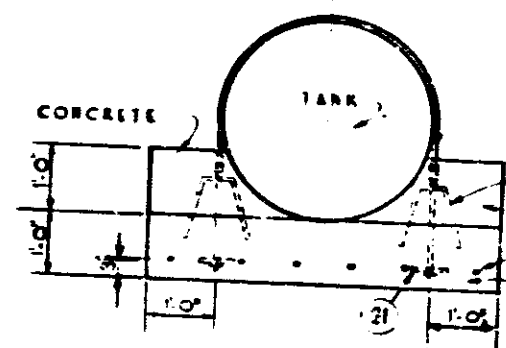
ELECTRICAL NOTES

- ALL ELECTRICAL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 1956 EDITION OF NATIONAL ELECTRICAL CODE.



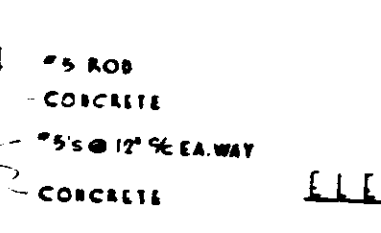


TYP. PART FLOOR PLAN
INSIDE PIPING LAYOUT
SCALE: NONE



END VIEW OF H.G. TANK
SCALE: NONE

NOTE:
SEE GENERAL NOTES #1 TO #7



ELEVATION OF TANK & PIPING
SCALE: NONE

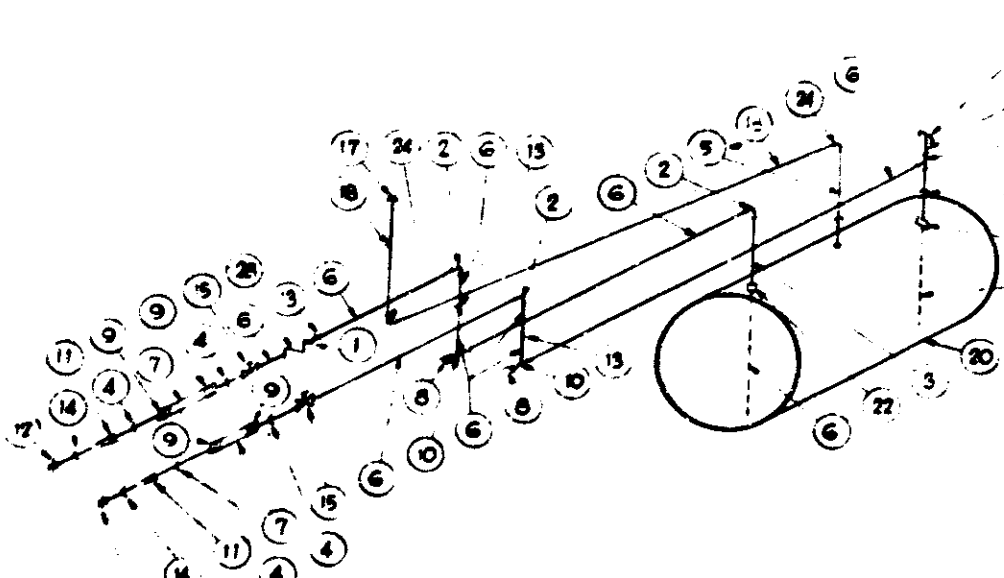
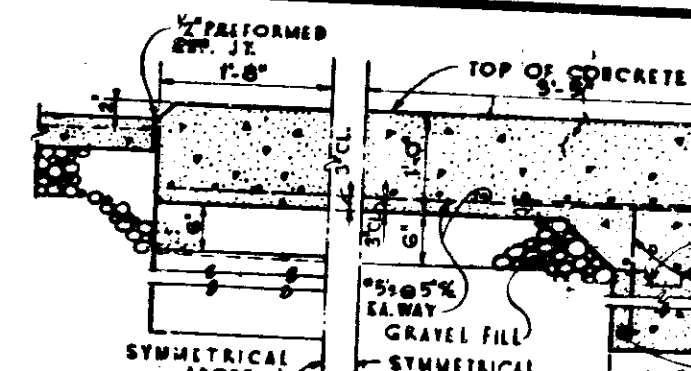
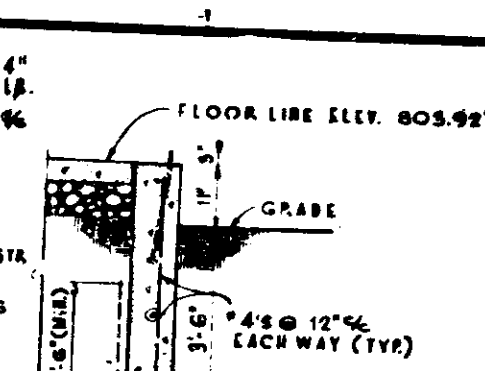


DIAGRAM - UNDERGROUND SYSTEM
SCALE: NONE

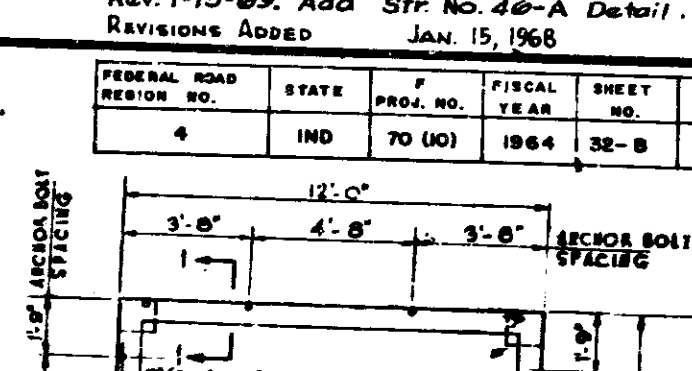
ITEM	QUANTITY	LIST OF MATERIALS
1	3	PIPE: 1/2" 2" BLACK IRON
2	3	ELBOW: 1/2" 90° MALLEABLE IRON
3	4	PIPE: 1/2" 2" BLACK STEEL
4	4	PIPE: 1/2" 2" BLACK STEEL
5	1	PIPE: 1/2" 2" BLACK STEEL
6	6	PIPE: 1/2" 2" BLACK STEEL
7	2	PIPE: 1/2" 2" BLACK STEEL
8	2	PIPE: 1/2" 2" BLACK STEEL
9	4	CONNECTOR: HOSE BRASS 1/2" ID.
10	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
11	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
12	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
13	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
14	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
15	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
16	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
17	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
18	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
19	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
20	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
21	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
22	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
23	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
24	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
25	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
26	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
27	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
28	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
29	2	TEE: 1/2" 2" STRAIGHT BLACK IRON
30	2	TEE: 1/2" 2" STRAIGHT BLACK IRON



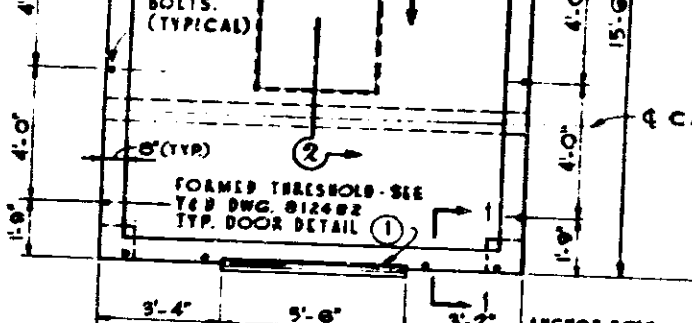
SECTION 1-1
SCALE: NONE



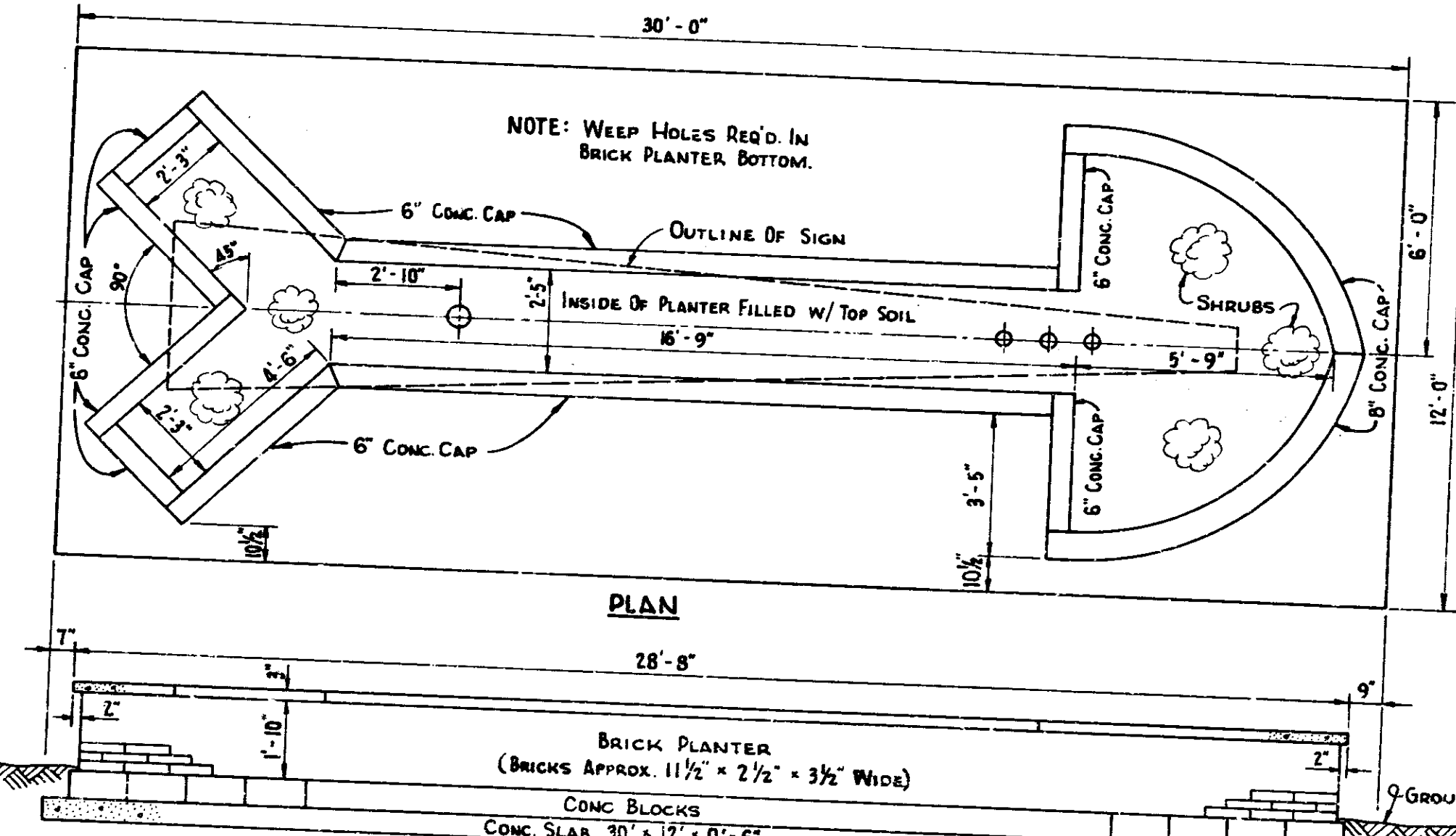
SECTION 2-2
SCALE: NONE



SECTION 3-3
SCALE: NONE



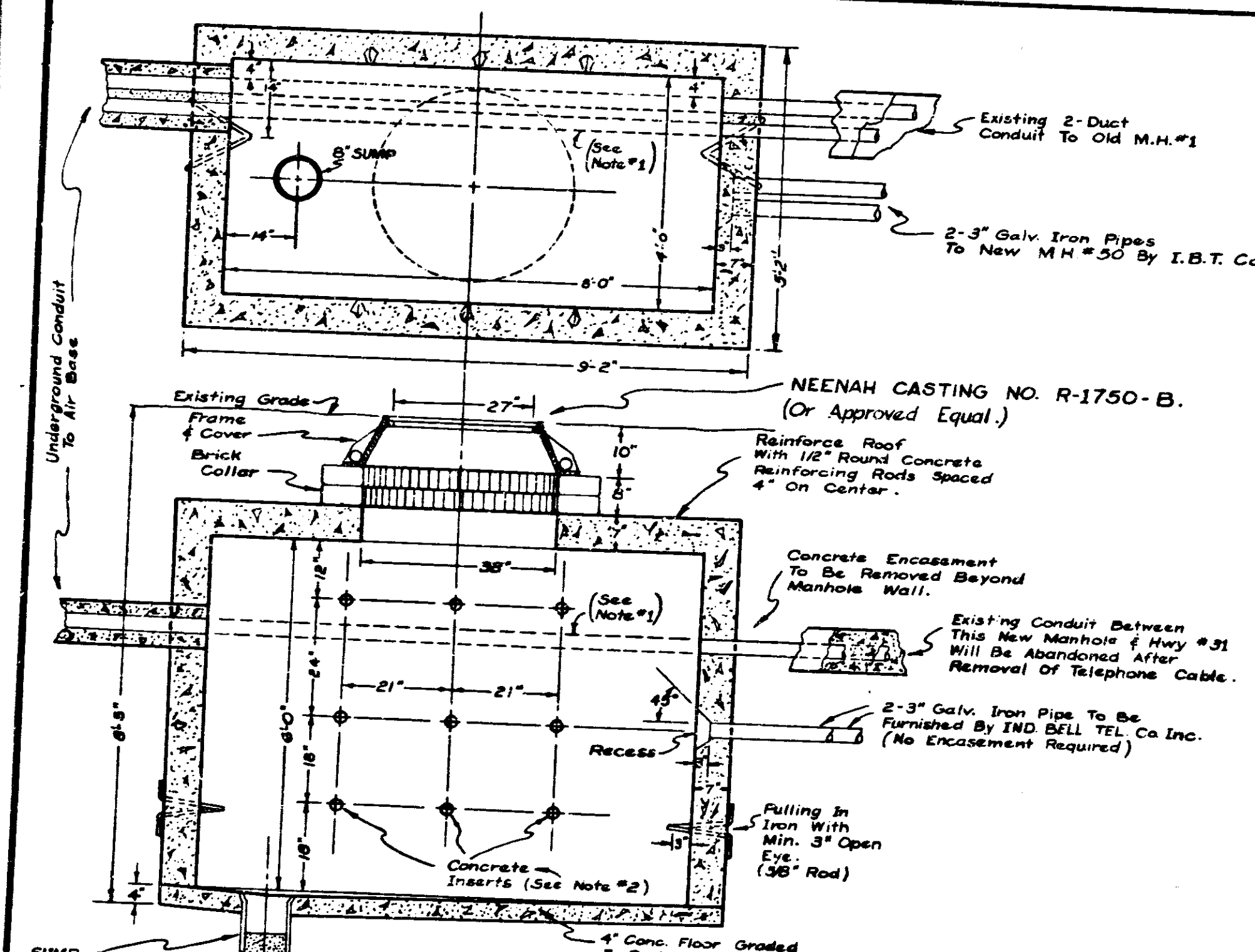
FOUNDATION PLAN
SCALE: NONE



BUNKER HILL A.F.B. SIGN AND BASE
PROPOSED DESIGN FOR RELOCATION
FOR DETAILS OF SIGN SEE SHEET NOS. 32-C & 32-D

- GENERAL NOTES
1. THERMAL PIPE CONNECTIONS SHALL BE SEALED WITH OIL AND GASOLINE RESISTANT COMPOUND.
 2. TANK AND PIPE CONNECTIONS SHALL BE TESTED UNDER SLUG AIR PRESSURE; HOLD ONE HALF HOUR.
 3. EXISTING OIL TANK AND FITTINGS SHALL BE REUSED.
 4. GENERAL ELEVATIONS SHALL NOT BE LOWER THAN THAT REQUIRED TO PROVIDE A SUITABLE SURFACE AT LEVELS SHOWN IN THE DETAILS.
 5. FOR LOCATION OF OIL TANKS, SEE Y&D DWG. 812401.
 6. ALL CONCRETE SHALL BE 2500 P.S.I.
 7. SEE Y&D DWG. 812402 FOR GLIDE SLOPE POWER BLDG. DETAILS; FOR LOCATION, SEE Y&D DWG. 812401.
 8. ALL EARTH FILL UNDER HANDRAILS, SLABS & FOUNDATIONS SHALL BE COMPACTED TO 90% MAXIMUM DENSITY AT OPTIMUM MOISTURE.

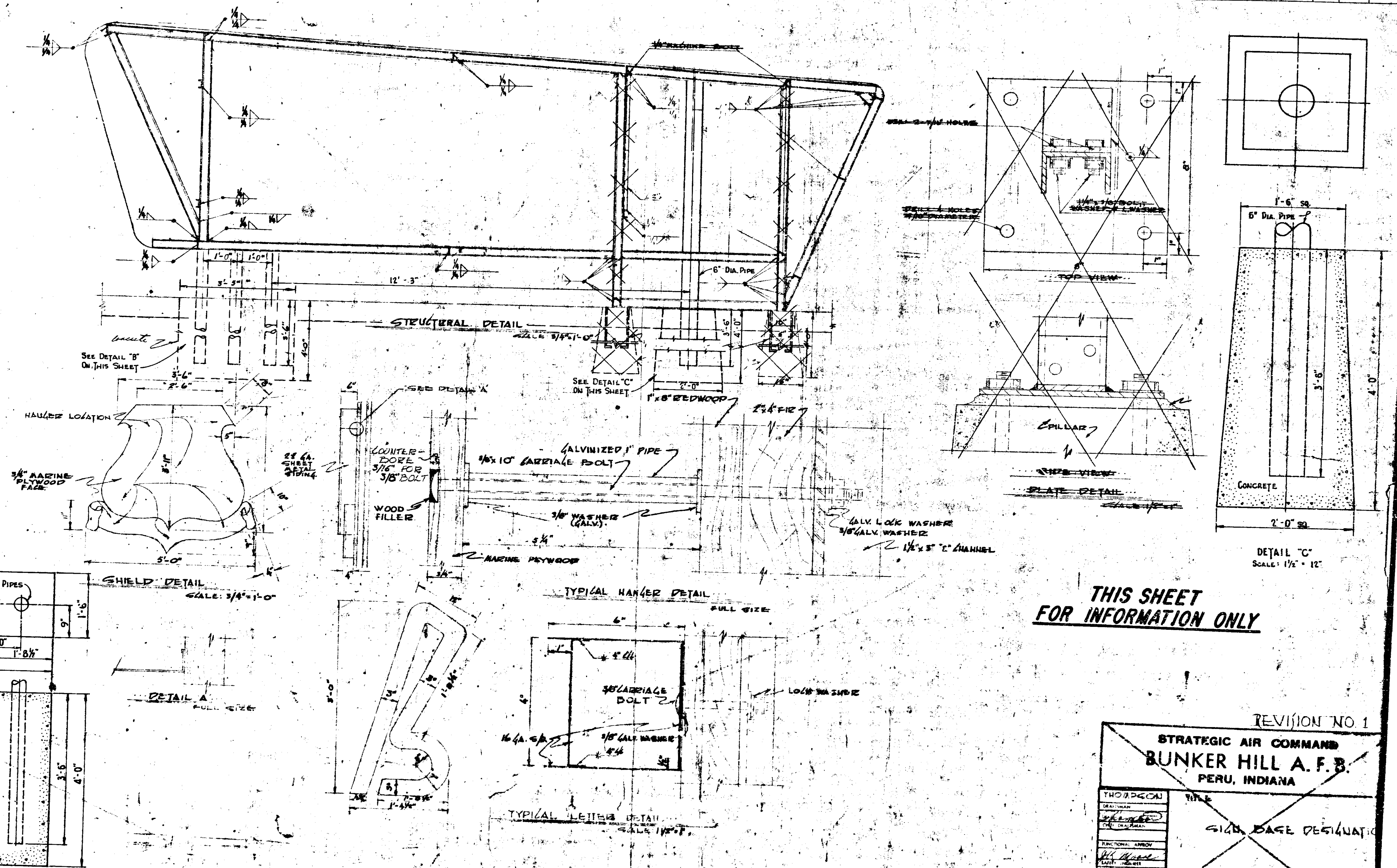
- NOTES:
1. The 2-Duct Conduit Must Be Removed From The 2-Cables Within The Manhole With Caution & Protection Of Cable.
 2. Concrete Inserts For 2 1/2" Long 1/2" Machine Bolts Should Be Used (If Required). These Will Secure Cable Racks To The Manhole Walls. Contact E. J. Walters, Const. Manager, I. B. T. Co. At Kokomo, Ind. (Tel. 437-5811 or 437-5107) For 37 Hole Cable Racks (6 Required) To Be Installed By Contractor.
 3. Coordinate All Work Operations With I. B. T. Co.
 4. Existing Conduit May Be Cut & Flush With Inside Surface Of Manhole Walls. A Pass Is Required For The New Conduit.
 5. This Manhole Is Located On Grissom Air Force Base Property And Will Be Owned By The Air Base.



STR. NO. 46-A
(Sta. 373+37)

PROJ. NO.	LINE	SHEET NO.	TOTAL	FILE
F-70 (10)	RR. 1	32-B	242	

REVISIONS ADDED JAN. 15, 1968					
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70(10)	1964	32-C	242

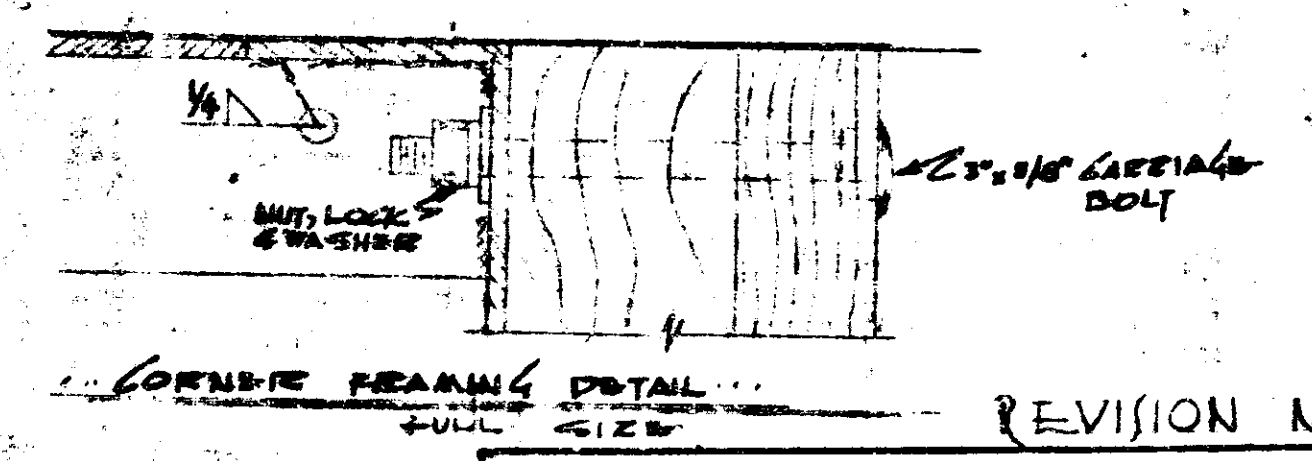
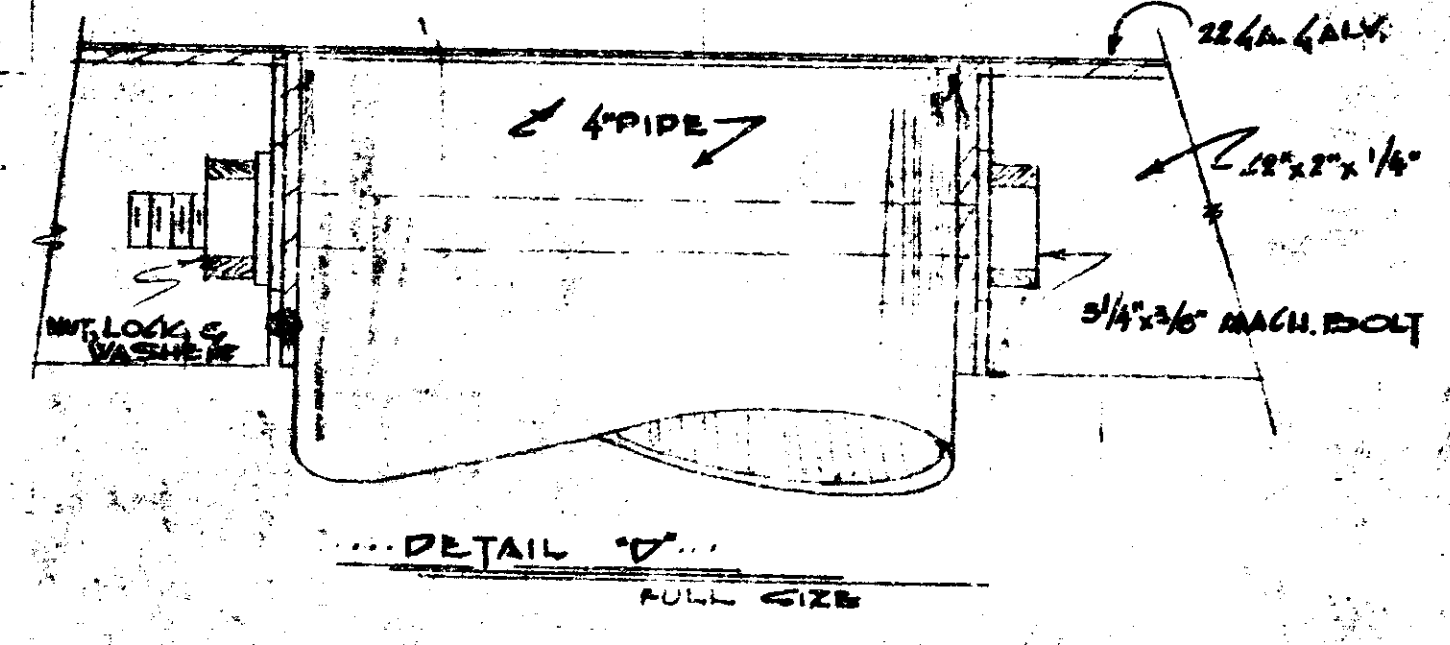
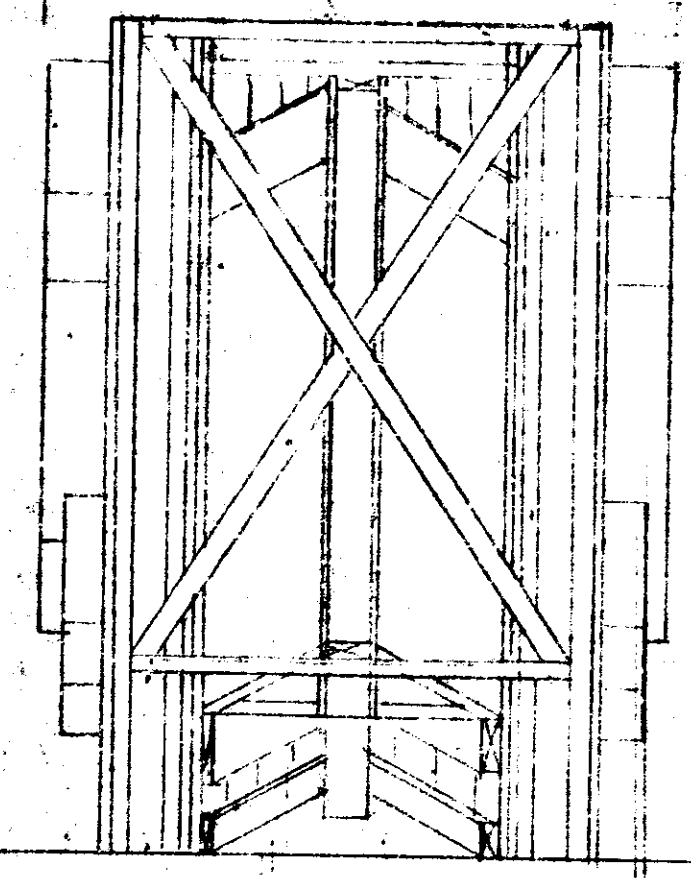
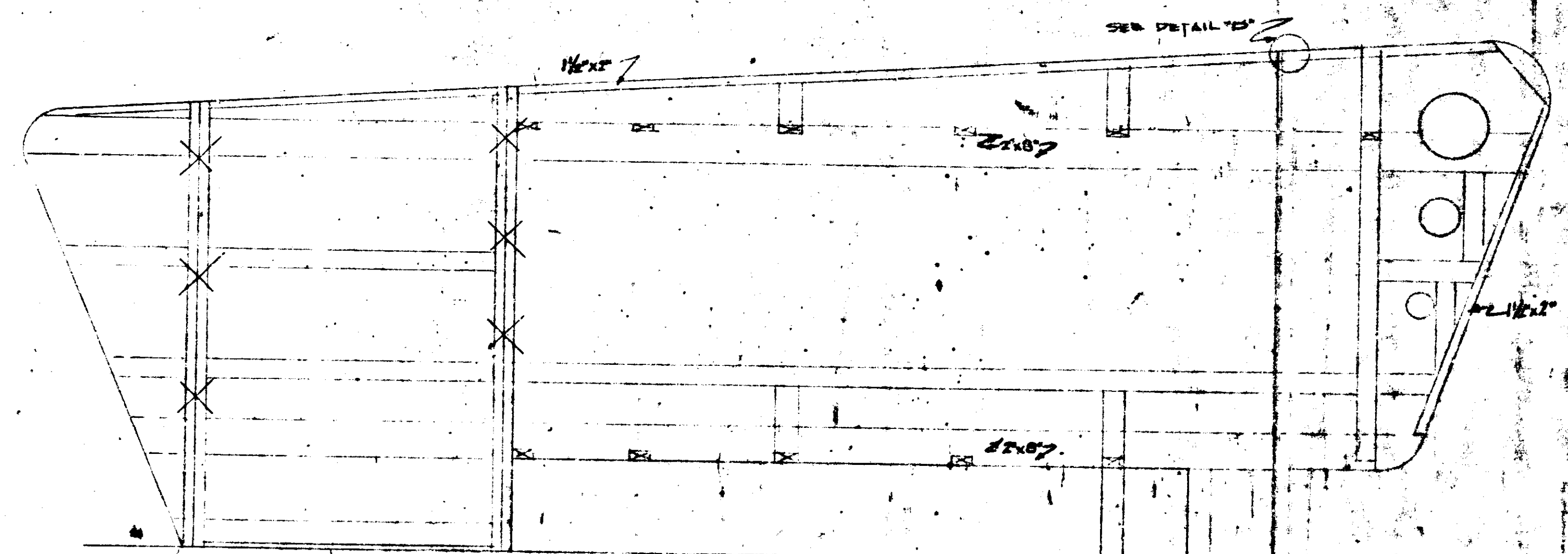
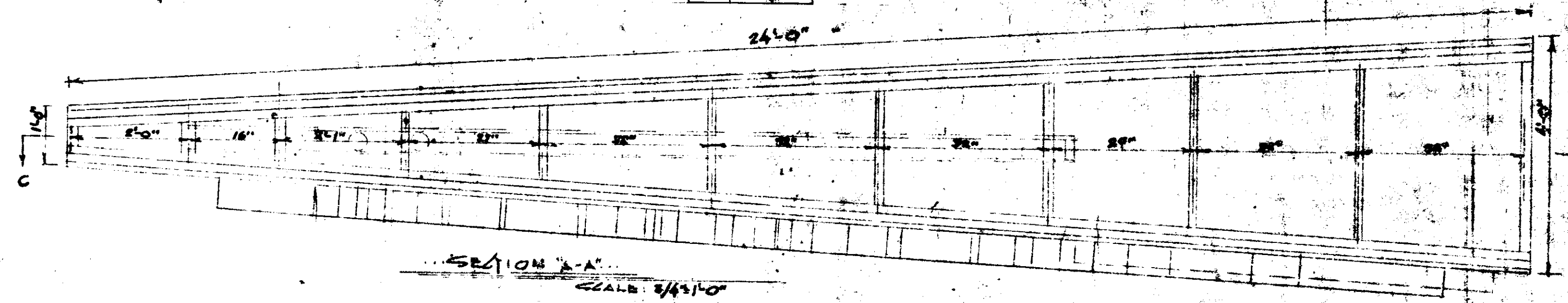
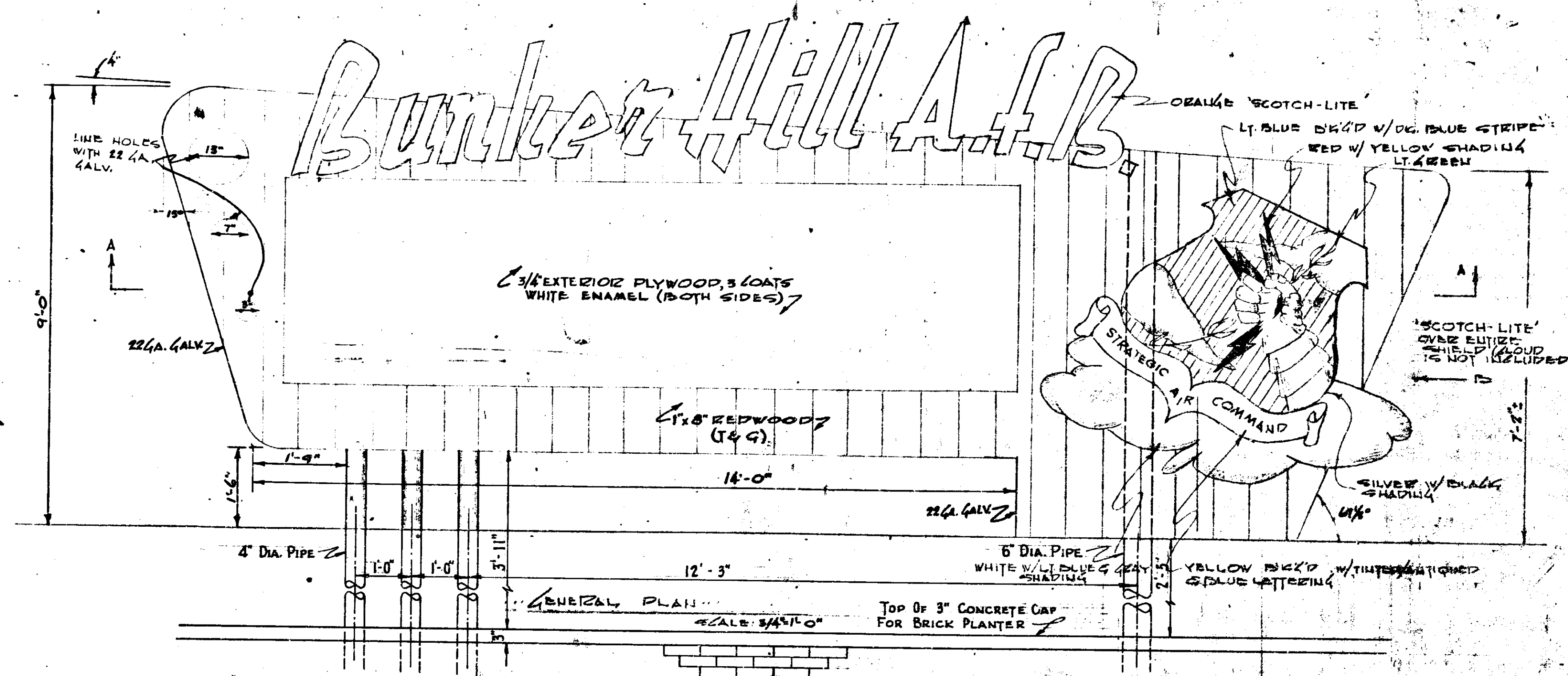


**THIS SHEET
FOR INFORMATION ONLY**

REVISION NO. 1

**STRATEGIC AIR COMMAND
BUNKER HILL A.F.B.
PERU, INDIANA**

DESIGNED BY <i>[Signature]</i>	CHECKED BY <i>[Signature]</i>
FUNCTIONAL APPROV <i>[Signature]</i>	SAFETY ENGINEER <i>[Signature]</i>
APPROVED <i>[Signature]</i>	APPROVED <i>[Signature]</i>
PROJECT NUMBER BU-152-58	DATE 10 APR 68
SCALE AS SHOWN	DRAWING NUMBER SHAPD-58-58



REVISIONS ADDED JAN. 19, 1968					
FEDERAL ROAD DIVISION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	IND.	70101	1964	32-D	242

**THIS SHEET
 FOR INFORMATION
 ONLY**

REVISION NO. 1

**STRATEGIC AIR COMMAND
 BUNKER HILL A.F.B.
 PERU, INDIANA**

THOMASCU	TITLE
DESIGNER	SIGN, DATE IDENTIFICATION
CHECKED	
FUNCTIONAL APPROV.	
DATE	
DATE	APPROVED
PROJECT NUMBER	DATE
SCALE	DATE
DATE	DATE

58-2

PIPE FOR SUBSURFACE DRAINS

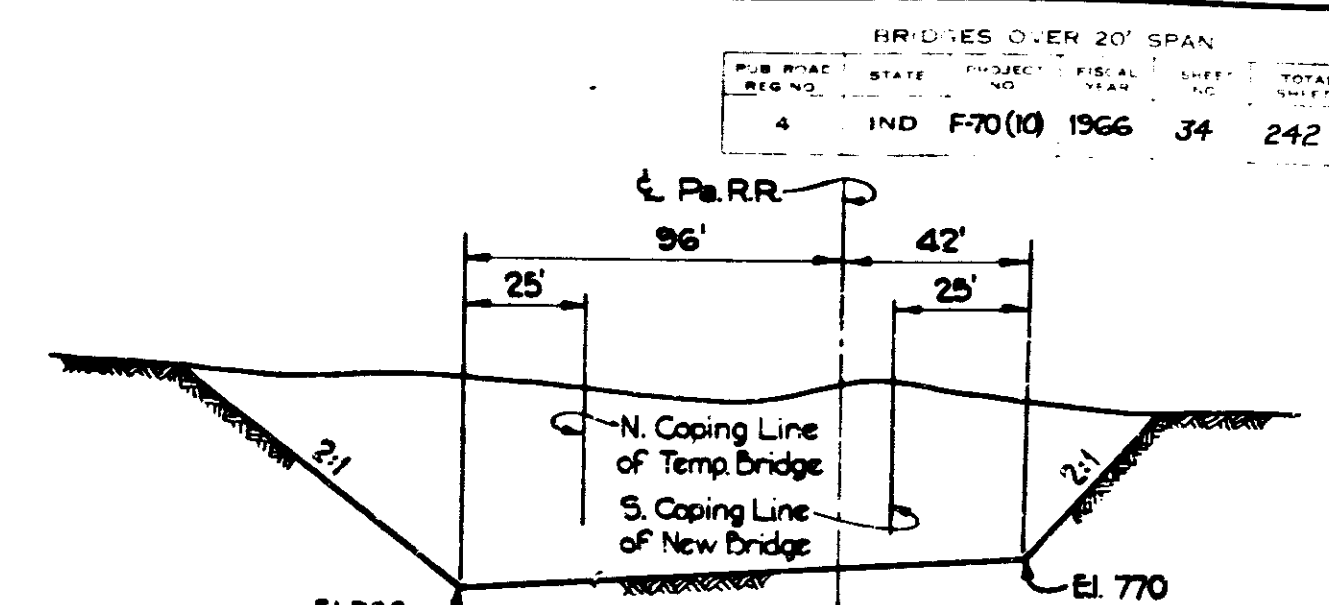
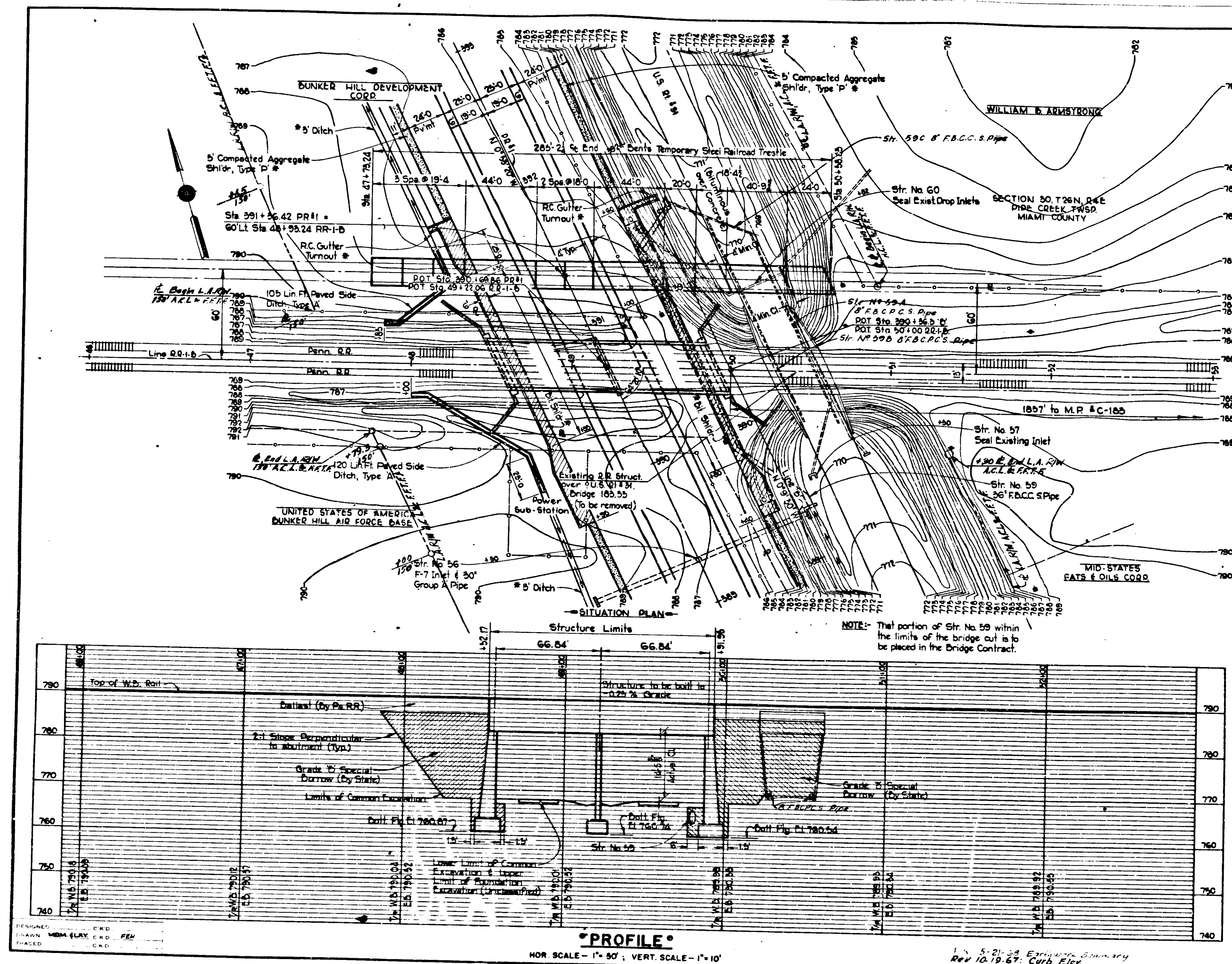
Rev. 10-17-65. Sta. 411+00 & Lengths.

FED. ROAD DIST. NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70 (10)	1964	33	242

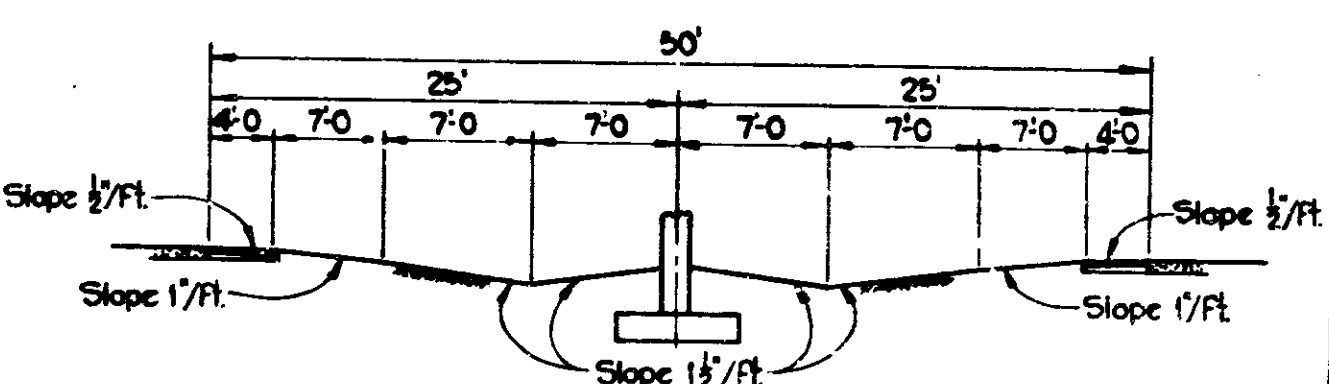
LINE	LANE	STATION	LENGTH FEET 6" GROUP 'K' PIPE	DELINATOR POSTS	SODDING SQ. YDS.	NON-PERF. F.B.C.C.S. OUTLET PIPE LIN. FT.	REMARKS
B	LT-MEDIAN	259+00 TO 275+00	1610, 1-45° BEND				CONNECT TO STRUCTURE No. 13 @ Sta. 259+00
B	LEFT	322+00 TO 324+67.02	267				EQUATION: STA. 324+67.02 "B" = STA. 324+67.02 P.R.#1
P.R.#1	LEFT	324+67.02 TO 339+00	1433, 1-6" 6" 6" TEE	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 332+00
B	LT-MEDIAN	322+00 TO 324+67.02	267				EQUATION: STA. 324+67.02 "B" = STA. 324+67.02 P.R.#1
P.R.#1	LT-MEDIAN	324+67.02 TO 334+00	963, 1-6" 6" 6" TEE				CONNECT TO STRUCTURE No. 36 @ Sta. 334+00
P.R.#1	LT-MEDIAN	334+00 TO 342+00	800				
P.R.#1	LT-MEDIAN	342+00 TO 352+80	1110, 1-45° BEND				" " " " No. 39 @ Sta. 342+00
P.R.#1	LEFT	345+00 TO 352+00	700, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 345+00
P.R.#1	LT-MEDIAN	352+80 TO 379+00	2640, 2-45° BENDS				CONNECT TO STRUCTURE No. 40 @ Sta. 352+80 & No. 50 @ Sta. 379+00
P.R.#1	LEFT	375+00 TO 404+00	2600, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 404+00
P.R.#1	LT-MEDIAN	379+00 TO 385+30	1000, 1-6" 6" 6" WYE				CONNECT TO STRUCTURE No. 56 @ Sta. 389+40
P.R.#1	LT-MEDIAN	389+30 TO 395+00	600, 1-6" 6" 6" WYE				" " " " No. 61 @ Sta. 395+00
P.R.#1	LT-MEDIAN	395+00 TO 411+00.30	1660, 1-6" 6" 6" WYE				" " " " No. 68 @ Sta. 411+00.30
P.R.#1	LEFT	407+00 TO 408+60	160, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 408+60
P.R.#1	LEFT	411+00 TO 419+00	800, 1-90° BEND	1	2	22	" " " " " " @ Sta. 419+00
P.R.#1	LT-MEDIAN	411+00.30 TO 419+87.32	908, 878				EQUATION: STA. 419+87.32 P.R.#1 = STA. 419+85.08 "B"
B	LT-MEDIAN	419+85.08 TO 420+25	30, 1-45° BEND				CONNECT TO STRUCTURE No. 76 @ Sta. 420+25
B	LT-MEDIAN	423+50 TO 433+50	1030, 1-45° BEND				" " " " No. 78 @ Sta. 423+50
B	LEFT	425+00 TO 435+00	1000, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 425+00
B	LEFT	439+00 TO 440+35	135, 1-90° BEND	1	2	22	" " " " " " @ Sta. 439+00
B	LEFT	444+00 TO 445+45	145, 1-90° BEND	1	2	22	" " " " " " @ Sta. 444+00
B	LT-MEDIAN	433+50 TO 455+00	2180, 1-6" 6" 6" WYE				CONNECT TO STRUCTURE No. 85 @ Sta. 433+50
B	LT-MEDIAN	455+00 TO 464+50	980, 1-6" 6" 6" WYE				" " " " No. 94 @ Sta. 455+00
B	LEFT	456+00 TO 464+70	670, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 456+00
B	LEFT	469+35 TO 480+00	1065, 1-90° BEND	1	2	22	" " " " " " @ Sta. 469+35
B	LT-MEDIAN	464+50 TO 483+50	1910, 1-6" 6" 6" WYE				CONNECT TO STRUCTURE No. 100 @ Sta. 464+50
B	LT-MEDIAN	483+50 TO 501+50	1840, 1-45° BEND				" " " " No. 114 @ Sta. 501+60
B	LEFT	489+00 TO 496+00	700, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON LEFT @ Sta. 496+00
B	LEFT	507+00 TO 511+00	400, 1-90° BEND	1	2	22	" " " " " " @ Sta. 507+00
B	LEFT	514+00 TO 526+40	240, 1-90° BEND	1	2	22	" " " " " " @ Sta. 526+40
B	LT-MEDIAN	501+60 TO 527+50	2100, 1-45° BEND				CONNECT TO STRUCTURE No. 114 @ Sta. 501+60
B	LT-MEDIAN	527+50 TO 537+00	950, 1-6" 6" 6" TEE				CONNECT TO STRUCTURE No. 127 @ Sta. 527+50
B	LT-MEDIAN	564+00 TO 570+10	675				EQUATION: STA. 570+10 "B" = STA. 0+00 "A"
A	LT-MEDIAN	0+00 TO 6+00	630, 1-6" 6" 6" WYE				CONNECT TO STRUCTURE No. 153 @ Sta. 6+00
A	LT-MEDIAN	6+00 TO 18+00	1230, 1-90° BEND				CROSSOVER TO SUBSURFACE DRAIN ON LEFT @ Sta. 18+00
B	LEFT	564+00 TO 570+10	610, 1-90° BEND				DRAIN THRU SHOULDER ON LEFT @ Sta. 570+10
A	LEFT	16+50 TO 18+00	150, 1-6" 6" 6" TEE				" " " " " " @ Sta. 18+00
SUB-TOTAL (LEFT LANE)							
LINES B, P.R.#1, & A			36,838	13	26	286	
14-90° BENDS @ 2'			28				
7-45° BENDS @ 2'			14				
4-6" 6" 6" TEE'S @ 5'			20				
7-6" 6" 6" WYE'S @ 5'			35				

LINE	LANE	STATION	LENGTH FEET 6" GROUP 'K' PIPE	DELINATOR POSTS	SODDING SQ. YDS.	NON-PERF. F.B.C.C.S. OUTLET PIPE LIN. FT.	REMARKS
B	RT-MEDIAN	253+00 TO 259+00	630, 1-45° BEND				CONNECT TO STRUCTURE No. 12 @ Sta. 253+00
B	RT-MEDIAN	259+00 TO 280+00	2110, 1-6" 6" 6" WYE				" " " " No. 13 @ Sta. 259+00
B	RT-MEDIAN	280+00 TO 315+40	3350, 1-6" 6" 6" WYE				" " " " No. 25 @ Sta. 315+40
B	RIGHT	312+00 TO 324+67.02	1267				EQUATION: STA. 324+67.02 "B" = STA. 324+67.02 P.R.#1
P.R.#1	RIGHT	324+67.02 TO 332+00	733, 1-6" 6" 6" TEE	1	2	22	DRAIN THRU SHOULDER ON RIGHT @ Sta. 332+00
P.R.#1	RIGHT	332+00 TO 339+00	700				" " " " " " @ Sta. 332+00
B	RT-MEDIAN	315+40 TO 324+67.02	947				EQUATION: STA. 324+67.02 "B" = STA. 324+67.02 P.R.#1
P.R.#1	RT-MEDIAN	324+67.02 TO 334+00	963, 1-6" 6" 6" TEE				CONNECT TO STRUCTURE No. 36 @ Sta. 334+00
P.R.#1	RT-MEDIAN	334+00 TO 342+00	800				
P.R.#1	RT-MEDIAN	342+00 TO 352+80	1110, 1-6" 6" 6" WYE				" " " " No. 39 @ Sta. 342+00
P.R.#1	RIGHT	345+00 TO 350+00	500, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON RIGHT @ Sta. 345+00
P.R.#1	RIGHT	378+00 TO 402+00	2400, 1-90° BEND	1	2	22	" " " " " " @ Sta. 402+00
P.R.#1	RT-MEDIAN	352+80 TO 379+00	2640, 2-45° BENDS				CONNECT TO STRUCTURE No. 40 @ Sta. 352+80 & No. 50 @ Sta. 379+00
P.R.#1	RT-MEDIAN	379+00 TO 389+30	1060, 1-6" 6" 6" WYE				" " " " No. 56 @ Sta. 389+40
P.R.#1	RT-MEDIAN	389+30 TO 395+00	600, 1-6" 6" 6" WYE				" " " " No. 61 @ Sta. 395+00
P.R.#1	RT-MEDIAN	395+00 TO 411+00.30	1660, 1-6" 6" 6" WYE				" " " " No. 68 @ Sta. 411+00.30
P.R.#1	RT-MEDIAN	411+00.30 TO 419+87.32	908, 878				EQUATION: STA. 419+87.32 P.R.#1 = STA. 419+85.08 "B"
B	RT-MEDIAN	419+85.08 TO 420+25	30, 1-45° BEND				CONNECT TO STRUCTURE No. 76 @ Sta. 420+25
B	RT-MEDIAN	423+50 TO 433+50	1030, 1-45° BEND				" " " " No. 78 @ Sta. 423+50
B	RT-MEDIAN	433+50 TO 438+00	480, 1-6" 6" 6" WYE				" " " " No. 85 @ Sta. 433+50
B	RIGHT	425+00 TO 438+00	1300, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON RIGHT @ Sta. 425+00
B	RIGHT	456+00 TO 464+00	800, 1-90° BEND	1	2	22	" " " " " " @ Sta. 456+00
B	RT-MEDIAN	455+00 TO 464+50	972, 1-90° BEND	1	2	22	CONNECT TO STRUCTURE No. 94 @ Sta. 455+00
B	RT-MEDIAN	464+50 TO 501+60	3762, 1-6" 6" 6" WYE				" " " " No. 100 @ Sta. 464+50
B	RIGHT	476+65 TO 478+50	185, 1-90° BEND	1	2	22	DRAIN THRU SHOULDER ON RIGHT @ Sta. 476+65
B	RIGHT	489+00 TO 495+00	600, 1-90° BEND	1	2	22	" " " " " " @ Sta. 495+00
B	RIGHT	501+60 TO 503+50	200, 1-90° BEND	1	2	22	" " " " " " @ Sta. 501+60
B	RIGHT	508+00 TO 514+00	600, 1-90° BEND	1	2	22	" " " " " " @ Sta. 508+00
B	RIGHT	518+70 TO 526+00	730, 1-90° BEND	1	2	22	" " " " " " @ Sta. 526+00
B	RT-MEDIAN	501+60 TO 527+50	2598, 1-6" 6" 6" TEE				CONNECT TO STRUCTURE No. 114 @ Sta. 501+60
B	RT-MEDIAN	527+50 TO 538+00	1060, 2-45° BENDS				" " " " No. 127 @ Sta. 527+50
B	RT-MEDIAN	538+00 TO 538+00	2010, 1-6" 6" 6" WYE				" " " " No. 146 @ Sta. 538+00
B	RIGHT	541+00 TO 545+45	425, 1-90° BEND	1	2	22	" " " " " " @ Sta. 545+45
B	RIGHT	549+60 TO 555+45	585, 1-90° BEND	1	2	22	" " " " " " @ Sta. 555+45
B	RIGHT	558+00 TO 569+00	1100, 1-90° BEND	1	2	22	" " " " " " @ Sta. 569+00
B	RT-MEDIAN	558+00 TO 570+10	1230, 1-90° BEND	1	2	22	DRAIN ACROSS RIGHT PAVEMENT AND THRU SHOULDER ON RIGHT @ Sta. 570+00
A	RT-MEDIAN	14+00 TO 19+50	580, 1-90° BEND	1	2	22	CROSSOVER TO RIGHT SHOULDER @ Sta. 19+40 AND DRAIN THRU SHOULDER ON RIGHT @ Sta. 19+50
SUB-TOTAL (RIGHT LANE)							
LINES B, P.R.#1, & A			42,865	15	30	330	
15-90° BENDS @ 2'			30				
7-45° BENDS @ 2'			14				
3-6" 6" 6" TEE'S @ 5'			15				
9-6" 6" 6" WYE'S @ 5'			45				
S-10-B	LEFT	50+60 TO 52+00	140, 1-90° BEND	1	2	10	DRAIN THRU SHOULDER ON LEFT @ Sta. 52+00
S-10-B	RIGHT	50+60 TO 52+00	140, 1-90° BEND	1	2	14	" " " " " " @ Sta. 52+00
S-11-B	LEFT	219+00 TO 220+36	136, 1-90° BEND	1	2	12	" " " " " " @ Sta. 220+36
S-11-B	RIGHT	219+00 TO 220+36	136, 1-90° BEND	1	2	12	" " " " " " @ Sta. 220+36
SUB-TOTAL							
LINES S-10-B & S-11-B			552	4	8	48	
4-90° BENDS @ 2'			8				
TOTAL			80,263	32	64	664	

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F-70(10)		33	242	



SECTION SHOWING LIMITS OF EXCAVATION IN BRIDGE CONTRACT (Looking East)



TYPICAL SECTION THRU MEDIAN DITCH

EARTHWORK SUMMARY FOR PERMANENT BRIDGE AND APPROACH

Common Excavation	21,888 Cu. Yds.
Excess Foundation Excavation	1,320 Cu. Yds.
** Fill + 20%	21,888 Cu. Yds.
Excess Excavation	1,320 Cu. Yds.
Grade 'B' Special Borrow	4,320 Cu. Yds.

** To be placed on U.S. 31 between Sta. 405+25 and Sta. 409+20

* Denotes items not included in Bridge Contract

TRAIN DATA:-
20 Trains Daily - All Freight

UTILITY OWNERS

Telephone Indiana Bell Telephone Company
Peru Indiana.
Electric Peru Power & Light Company
Peru Indiana.

FOR INFORMATION ONLY

LAYOUT

CONTINUOUS WELDED DECK GIRDER RAILROAD BRIDGE
2 SPANS 66'-10 1/2", 66'-10 1/2" SKEW 25°40' LEFT
DOUBLE TRACK

PENNSYLVANIA RAILROAD OVER U.S. 31

INDIANA STATE HIGHWAY COMMISSION
MIAMI COUNTY

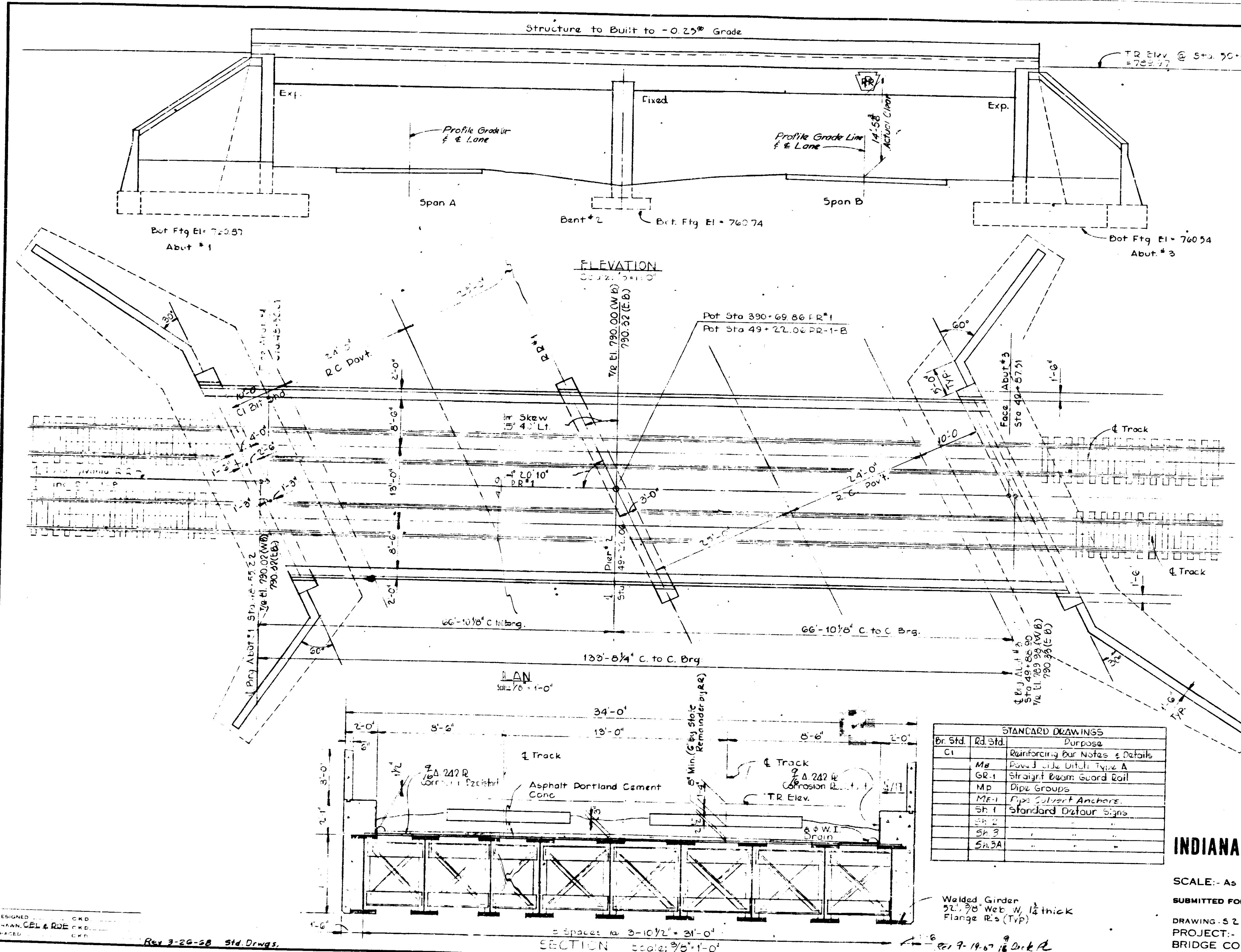
SCALE:- 1" = 50' Unless Noted

FEB. 8, 1966

SUBMITTED FOR APPROVAL:

DRAWING: 51 OF
PROJECT: F 70 (11)
BRIDGE CONTRACT NO.
BRIDGE FILE: 31R-2558

Rev 5-21-66 Earthwork Summary
Rev 10-19-67 Curb, Elev
Rev 5-10-67 Add Str 59A, 59B, 59C



BRIDGE OVER 20' SPAN	DATE	BY	CHKD	APP'D
IND F-70(11) 1966 35	242			

GENERAL NOTES:

All material and workmanship shall be in accordance with Indiana State Highway Commission Standard Specifications dated 1963 except as noted.

AREA Specifications for Reinforced Concrete Bridges and other Structures dated 1959 and Specifications for Steel Railway Bridges dated 1963 except as noted.

All welding shall be in accordance with AWS.

Specifications for Welded Highway and Railway Bridges dated 1963.

Exist Bridge No. 163.55 at site. Reinforced Conc Slab. Pennsylvania Railroad over US 31. Structure will remain, except as noted.

Depth of footings to be extended if necessary. See Art B403.2 (a) Specifications.

Piles shall have minimum bearing value shown on detail drawings. Determine pile lengths by Art F-102 of Specifications.

Piles shall be driven to elevation shown on plans or below if necessary to obtain desired bearing.

Reinforcing steel covering shall be 3 inches in footing except bottom steel which shall be 4 inches and 2 inches in all other parts unless noted.

Concrete in footings, wingwalls, abutments to be class "E".

Concrete in superstructure, including railing, pier caps to be class "F".

Concrete in pier columns to be class "D".

Concrete in paved side ditches to be class "D".

Continuous concrete pours shall be required between construction joints as shown on detail plans.

Waterproof abutments, wingwalls, back of mudwalls in accordance with the specifications.

Baval forms 1/4" under copings; and chamfer exposed edges 1/4" inc. unless noted.

Bituminous concrete deck covering shall be in accordance with specifications for Asphalt Portland Cement Concrete. See special provisions.

See special provisions for items included in this contract.

DESIGN DATA:

Live Load shall be Cooper E-72 Loading, AREA Impact for Diesel.

For Typical Cross-Section of Runaround See Dwg Sh. 6

For Typical Cross-Section of U.S. 31 See Sh. 7

For Typical Cross-Section of Pa. R.R. See Sh. 6

FOR INFORMATION ONLY

CONT WELDED DECK GIRDER R.R.
BRIDGE 2 SPANS @ 66'-10 1/8"
SKEW 25° 40' LT
DOUBLE TRACK
PENNSYLVANIA RR OVER US 31

INDIANA STATE HIGHWAY COMMISSION
MAMI COUNTY

SCALE: As Noted

SUBMITTED FOR APPROVAL: C. H. H. H. H.

DRAWING 52 OF 11

PROJECT: F-70(11)

BRIDGE CONTRACT NO.

BRIDGE FILE: 31 R-2350

Br. Std.	Rd. Std.	Purpose
C1		Reinforcing Bar Notes & Details
ME		Paved Side Ditch, Type A
GR-1		Straight Diagram Guard Rail
MP		Ditch Groups
ME-1		Type Culvert Anchors
SH-1		Standard Ditch Signs
SH-2		
SH-3		
SH-3A		

Welded Girder
21" x 20" Web W 1/2" thick
Flange R's (Typ)

Rev. 9-19-67: 1/2" Deck R

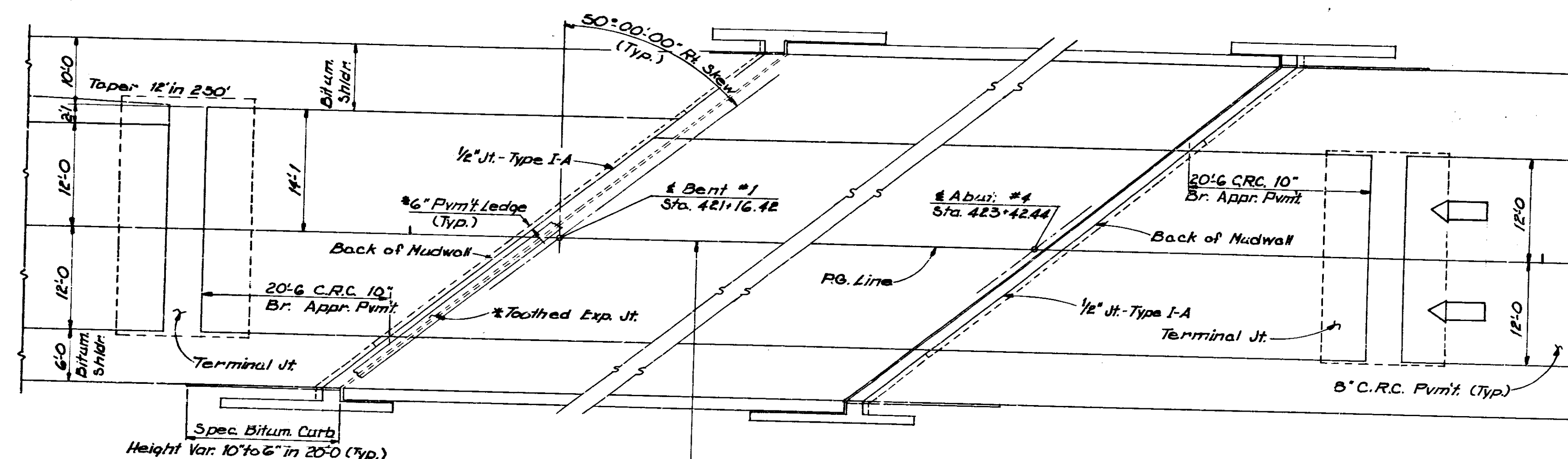
Rev. 5-0-67: R.C. Line & Curbs removed.

Rev. 10-19-67: R.C. Line & Curbs removed.

DESIGNED: C. H. H. H. H.
CHECKED: C. H. H. H. H.
DATE: 11-6-61

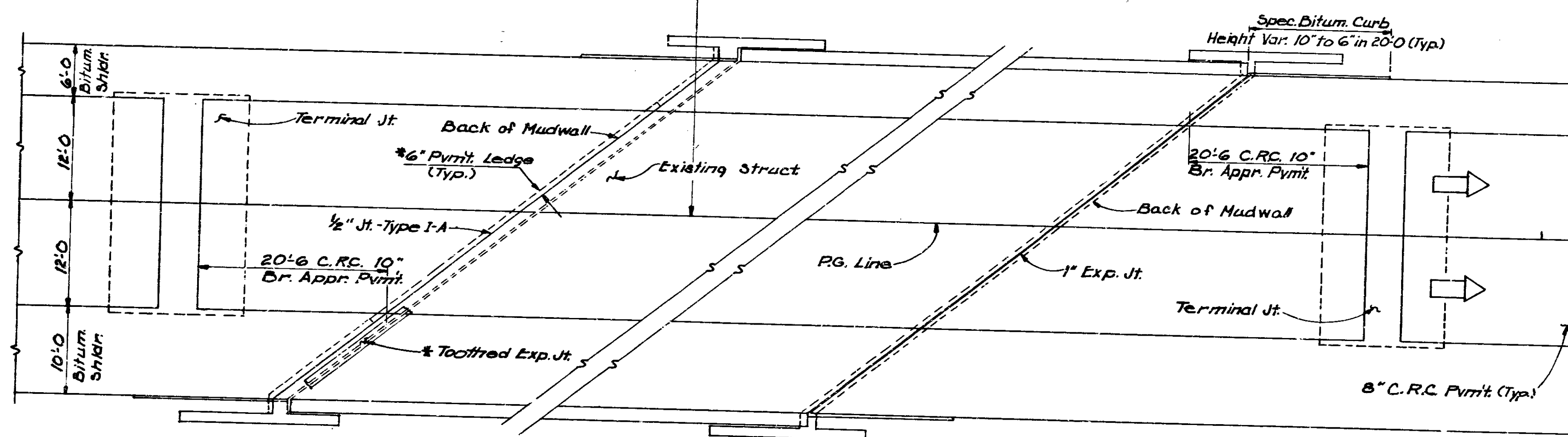
November 6, 1961

FED. ROAD REGION NO.	STATE	PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F-70(10)	1964	36	242



NOTE: Taper for ramp pvm't,
ends at sta. 421+21.5 5'

* Not Part of Road Contract



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

BILL OF MATERIALS

ITEM	QUANTITY
Additional Concrete Pym't reqd. for C.R.C. Br. Approaches	95 sq. yd.
Additional Steel reqd. for C.R.C. Br. Approaches	7344 #
Terminal Joint	95 Lin. Ft.
1/2" Joint Type I-A	115 Lin. Ft.
1" Preformed Exp. Joint	62 Lin. Ft.
Special Bitum. Curb	120 Lin. Ft.

** Additional thickness of approach slab converted
to equivalent sq. yd. of 5" C.R.C. pym't

Bridge File No.:
31-R-4041AS (Existing structure with proposed widening)
31-R-4041JS

R. C. BRIDGE APPROACH
PIPE CREEK

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

STRUCTURE DATA

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

Rev. 10-17-68. Str. No. 67.
REV. 6-9-67-Add Str.s 53A, B, C.

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LENGTH "L"	SKW	COVER	FLOW LINE UP ELEV.	DOWN ELEV.	CONCRETE CLASS "D"	SPECIAL BORROW GRADE "B"	REINFORCING STEEL LBS.	REMARKS	CULVERT PIPE END SECTION PLANS ON SHEET NO.
1			SEPARATE CONTRACT STRUCTURE									NO EXCEPTION: PENN CENTRAL RR OVER F-70 TO BE CONSTRUCTED UNDER BRIDGE CONTRACT F PROJ. 70(11) BRIDGE FILE NO. 31-R-2358	
2			COMBINATION STRUCTURE									TO BE CONSTRUCTED IN COMBINATION WITH ROAD PROJECT BRIDGE FILE NO. 31-R-20815 STA 820+24.69 - STA 822+54.52 37' RT. BRIDGE FILE NO. 31-R-40415 STA 821+13.96 - STA 823+44.58 37' LT.	
LINE "B"													
12	253+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	74'		3.0'	804.56	804.10		3.8		CONNECT TO SUBSURFACE DRAIN	1 8
13	259+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	74'		3.1'	806.63	806.30		3.8		CONNECT TO SUBSURFACE DRAIN	1 8
LINE "S-B"													
14	2+30 Rt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	24'		1.0'	809.13	809.09				CLASS Y DRIVE REQ'D	2 8
15	2+50 Lt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	24'		1.0'	809.13	809.09				CLASS Y DRIVE REQ'D	2 8
LINE "B"													
16	268+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	84'		4.7'	807.35	807.30		4.0			1 8
17	270+05	8"	GROUP "L" PIPE	220'			803.22	804.65		22.2		CONNECT TO EXISTING 8" FIELD TILE LT. & RT. REMOVE F.TILE IN PLACE	8
18	270+30	24"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	162'		4.2'	807.50	807.00		15.1		REMOVE EXISTING 15" R.C. PIPE.	2 8
LINE "S-B"													
19	289+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	80'		4.3'	807.98	807.85		5.1			1 9
LINE "S-B"													
20	820+58 Lt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	24'		1.0'	807.60	807.40				CLASS II DRIVE REQ'D	2 9
21	823+75	15"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	8'		1.0'						EXTEND EXISTING 15" CONCRETE PIPE ON LEFT OF LINE "S-B"	1 9
LINE "B"													
22	290+59.5 Rt.	18"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	42'		2.5'	807.17	807.03				PUBLIC ROAD APPROACH TYPE "D" REQ'D	2 9
ACCESS RD. NO. 1													
23	296+00	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	32'		1.5'	806.50	806.00					2 9
LINE "B"													
24	307+50 Rt.	12"	GROUP "P" PIPE	816'									10
25	316+13.3 178' RT.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	30'			797.00					NO PIPE END SECTION REQ'D @ OUTLET END.	10
25	317+40	15"	STD. INLET TYPE N-12 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	72'		3.5'	797.30	796.74		4.7		CONNECT TO SUBSURFACE DRAIN	1 10
26	316+13.3 Rt.	24"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	50'		3.0'	796.35	795.71				PUBLIC ROAD APPROACH TYPE "A" REQ'D	2 10
27	316+41 Lt.							0.2				REMOVE EXISTING 12" FIELD TILE IN PLACE (STA 308+00 - STA. 316+41) BACKFILL WITH SAND & SEAL TILE UNDER EXISTING PAVEMENT. PIPE ARCH ANCHORS REQ'D EACH END. CONSTRUCT INLET DITCH 50 SQ. YDS. RIP RAP REQ'D ON LT. & 50 SQ. YDS. RIP RAP REQ'D ON RT.	10
28	316+85		F.B.C.C.S. A. GA. No. 12 (M.A. = 71.6 SQ. FT.) OR REIN. FLIP CONC. PIPE (M.A. = 16.6 SQ. FT.)	178'	15'	3.2'	795.00	794.11	2.95	63.3		SEAL & ABANDON EXIST. 5'x4' BOX CULVERT. SEE SPECIAL PERMISSIONS	10
29	318+00 Lt.	5'x5'	EXISTING R.C. BOX CULVERT					1.33				NO PIPE END SECTION REQ'D	10
30	322+04 Rt.	8"	C.S. PIPE (GA. No. 16)	6'									10
31	324+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	80'		4.7'	793.14	791.95		14.5			1 10
P.R. LINE NO. 1													
32	324+44 Rt.	6"	C.S. PIPE (GA. No. 18)	6'								NO PIPE END SECTION REQ'D	10
P.R. LINE NO. 1													
33	325+25 Rt.	6"	C.S. PIPE (GA. No. 18)	6'								NO PIPE END SECTION REQ'D	10
34	328+00	15"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	134'		3.3'	792.30	790.30		33.1			2 10
35	330+59 Rt.	6"	C.S. PIPE (GA. No. 18)	6'								NO PIPE END SECTION REQ'D	10
36	334+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	82'		4.3'	791.20	790.25		11.5		CONNECT TO SUBSURFACE DRAIN	1 10
37	341+31	6'x8'	STD. REIN. CONC. CULVERT & W-1 WINGS	114'		6'	786.76	784.09	61.20	169.4	16.171	EXTEND EXIST. CONC. CULVERT WITH 54 LIN. FT. LT. & 60 LIN. FT. RT. SEE SHEET NO. 64 FOR STD. STRUCTURE CONNECTIONS FOR EXTENSIONS. REMOVE 34' OF EXISTING ARCH. REBUILD HEADWALL. SALVAGE & USE EXISTING METAL GATES. SEE DETAIL ON PLAN SHEET NO. 31 CONNECT TO SUBSURFACE DRAIN	11
38	341+37	18'x54'	MULTI PLATE STEEL ARCH (WING AREA = 22 SQ. FT.)				786.63	3.83					11
39	342+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	84'		4.3'	791.76	790.75		7.8			1 11

November 6, 1961

STRUCTURE NUMBER	LOCATION	SIZE	DESCRIPTION	LENGTH "L"	SKW	COVER	FLOW LINE UP ELEV.	DOWN ELEV.	CONCRETE CLASS "D"	SPECIAL BORROW GRADE "B"	REINFORCING STEEL LBS.	REMARKS	CULVERT PIPE END SECTION PLANS ON SHEET NO.
P.R. LINE NO. 1 CONT'D													
40	352+80	24"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	154'		5.0'	792.04	789.85		29.0		REMOVE EXIST. PIPE. CONNECT TO SUBSURFACE DRAIN	2 11
41	354+79 Rt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	46'		1.0'	794.24	794.18				COMMERCIAL DRIVE REQ'D	2 11
42	356+36 Rt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	34'		1.0'	794.39	794.32				COMMERCIAL DRIVE REQ'D	2 11
LINE "S-B"													
43	32+30	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	24'		1.0'	794.00	792.75				CLASS IV DRIVE REQ'D	2 11
P.R. LINE NO. 1													
44	363+00	18"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	82'		4.5'	793.30	793.02		7.8			1 11
45	367+80	36"	GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	152'		5.0'	793.50	790.25		59.4		CONSTRUCT OUTLET DITCH. REMOVE EXISTING PIPE.	2 11
46	367+80	6"	GROUP "L" PIPE	230'								CONNECT TO EXIST. 6" FIELD TILE LT. & RT. REMOVE F.TILE IN PLACE SEE DETAILS ON SHEET NO. 32-B.	11
46-A	373+37	117' Lt.	Telephone Manhole										1 12
47	374+60 Rt.	12"	STD. INLET TYPE A-9 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	36'			791.98	790.80					1 12
48	375+88	6"	STD. MANHOLE TYPE B-4 & GROUP "L" PIPE	170'			787.50	787.00				REMOVE FIELD TILE IN PLACE	12
49	376+31	15"	GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	142'			789.10			10.6		CONNECT TO EXIST. 15" PIPE ON RT.	1 12
50	378+90	15"	STD. INLET TYPE P-11 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	8'			790.00					BARRIER SLOPE REQ'D. CONNECT TO STRUCTURE NO. 51 & TO SUBSURFACE DRAIN	12
51	379+00 Rt.	15"	STD. INLET TYPE A-9 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	164'			790.30	789.75		12.0		CONNECT TO STRUCTURE NO. 50 1-15" = 15" Tie REQ'D.	1 12
LINE "S-B"													
52	47+75 Lt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	24'		1.5'	791.00	790.75				CLASS Y DRIVE REQ'D	2 12
53	47+75 Rt.	12"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 16 C.A.A.)	24'		1.5'	791.00	790.75				CLASS Y DRIVE REQ'D	2 12
P.R. LINE NO. 1													
54	386+40 Lt.	6"	C.S. PIPE (GA. No. 18)	10'								20' OF CONCRETE GUTTER. NO PIPE END SECTION REQ'D @ OUTLET END.	12
55	389+30	30"	GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	162'		2.7'	764.82	764.10	1.75	44.8		1" HEADWALL REQ'D. OUTLET END ONLY. 1-30"x30"x12" TEE REQ'D CONNECT TO STRUCTURE NO. 56	1 12
56	389+40	12"	STD. INLET TYPE P-11 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	8'			767.43	766.50				CONNECT TO STRUCTURE NO. 55 & TO SUBSURFACE DRAIN	12
57	389+50 Rt.							0.10				SEAL EXISTING PIPE INLET	12
58	389+50 Rt.							0.20				REMOVE CASTING & SEAL DROP INLET	12
59	390+40 Rt.	36"	F.B.C.C.S. PIPE/R.I. (GA. No. 16)	240'			764.10	762.48	1.75	45.0		INLET THRU "L" HEADWALL OF STRUCTURE NO. 56. "L" HEADWALL REQ'D. OUTLET END. OUTLET STRUCTURE NO. 59 C THRU HDWL. IN EXISTING CONTRACT	12
59A	390+50 Rt.	8"										SEAL EXISTING DROP INLETS	12
59B	390+82 Rt.											OUTLET THRU "L" HEADWALL OF STRUCTURE NO. 59	12
59C	391+50	8"	F.B.C.C.S. (GA. No. 16)	60'				0.40				1-45" BEND & 1" WYE REQ'D. CONNECT TO STRUCTURE NOS. 59A & 59B	12
60	395+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	76'		3.0'	760.39	759.95		7.6		CONNECT TO SUBSURFACE DRAIN	1 13
62	395+40 Rt.	36"	GROUP "D" PIPE (GA. No. 16 C.S.) (GA. No. 12 C.A.A.)	24'			759.63	759.57				CLASS II DRIVE REQ'D	2 13
63	404+00	12"	STD. INLET TYPE F-7 & GROUP "A" PIPE (GA. No. 16 F.B.C.C.S./R.I.)	108'		6.1'	756.06	749.15		4.1			1 14
64	405+00	54"	STRUTTED F.B.C.C.S./R.I. GA. No. 14	28'		16.5'	742.76	737.00				NOT INCLUDED IN THIS CONTRACT. CONSTRUCT UNDER BR. CONTRACT F PROJ. 70(11) BRIDGE FILE NO. 31-R-2358 CONNECT TO STRUCTURE NO. 65	1
65	405+00	54"	STRUTTED F.B.C.C.S./R.I. GA. No. 14	108'		23.0'	737.00	733.23	3.18	44.0		1-54" BAND REQ'D. CONNECT TO STRUCTURE NO. 64. CONSTRUCT INLET & OUTLET DITCHES. 15 SQ. YDS. RIP RAP REQ'D ON LT. PIPE ANCHORS REQ'D. EACH END.	1
66	405+72 Rt.	4'x5'	EXISTING R.C. BOX CULVERT							65.0		REMOVE TOP SLAB & BACKFILL WITH GRADE "B" SPECIAL BORROW	1
P.R. LINE NO. 1													
67	409+63	6"	Std. R.C. SPRINGPOX Group "L" Pipe (GA. No. 18 C.S. Pipe Req'd)	96'								No Hdwl. Req'd at Outlet End.	1
67	409+63	8"	STD. MANHOLE TYPE C C.I. WATER PIPE F.B.C.C.S. PIPE	750'			738.30					CASING REQ'D. UNDER PAVEMENT	1

PROJECT NO. F 70(10) LINE 37 SHEET 142 TOTAL SHEETS

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

STRUCTURE DATA

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

Rev. 10-17-68 S.F.S. 68 & 74
R.C.V. S.F. 99A Added

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	F 70 (10)	1964	38	242

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE UP DOWN ELEV. ELEV.	CONCRETE CLASS "C"	SPECIAL BORROW GRADE "B"	REINFORCING STEEL LBS.	REMARKS	CULVERT PIPE END SECTION PLANS SHEET NO.
P.R. LINE No. 1 CONT'D.											
68	411+88	12" STD. INLET TYPE E-7 & GA. NO. 16 PIPE (F.B.C.C.S./P.I.)	108'			744.84 743.49	731.00 730.39	3.5		CONNECT TO SUBSURFACE DRAIN	1 13
		2 - 22' 30" BENDS REQ'D.									
69	415+00	12" STD. INLET TYPE E-7 & GROUP A PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	78'			737.88 737.75		3.8			1 13
LINE 'S-11-B'											
70	219+30 RT.	C.S. PIPE (GA. NO. 16)	20'			738.66 738.44				Class II Drive Req'd	2 13
70A	219+91 RT.	Existing C.S. Pipe	20'							Remove and Salvage	13
71	219+70 LT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	36'			738.20 737.84				REMOVE EXISTING PIPE	2 13
72	220+28	GROUP H-1 PIPE ARCH (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	86'			737.85 737.30					2 13
73	220+90	22" B" EXISTING C.S. ARCH	48'							REMOVE & SALVAGE	2 13
ACCESS RD. No. 2 P.R. No. 1											
74	3+37	15" 10" S.R.S. ARCH (MIN AREA = 122 S.F.)	68'			729.83 729.17				STRUCTURAL PLATES: GA. NO. 10 TOP & SIDES, GA. NO. 8 BOTTOM. STRUCTURAL PLATE PIPE ANCHORS REQ'D. EACH END. REMOVE PIPE IN PLACE.	13
FRONTAGE RD. No. 2											
75	3+00	12" GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	36'			736.90 736.00				CONSTRUCT OUTLET DITCH	2 13
LINE 'B'											
76	420+25	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	52'			733.44 731.50				DRAIN THRU SLOPEWALL. CONNECT TO SUBSURFACE DRAIN	13
77	420+75	6" F.B.C. PIPE C.S. PIPE (GA. NO. 18)	70'							DRAIN THRU SLOPE ON LT.	13
78	423+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	56'			733.92 732.00				DRAIN THRU SLOPEWALL. CONNECT TO SUBSURFACE DRAIN	13
79	426+50 LT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			733.24 733.16				CLASS II DRIVE REQ'D.	2 13
80	426+50 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	36'			736.16 736.08				REMOVE EXISTING PIPE	2 13
81	426+50 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			738.90 738.50				CLASS IV DRIVE REQ'D.	2 13
P.R. LINE No. 2											
82	3+25	18" GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	36'			735.75 735.35				CONSTRUCT OUTLET DITCH	2 13
LINE 'B'											
83	427+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	74'			737.04 735.50		11.4			1 13
84	432+74 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			743.25 743.10				CLASS II DRIVE REQ'D.	2 14
85	433+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	78'			742.20 741.55		11.9		CONNECT TO SUBSURFACE DRAIN	1 14
86	436+97	6" 4" STD. REINF. CONC. BOX CULVERT # W-1 WINGS	75'			738.00 736.00	43.90 180.5	11.280		EXTEND EXISTING CONC. BOX CULVERT ON LT. SEE SHEET NO. 64 FOR STD. STRUCTURE CONNECTIONS FOR EXTENSIONS. CONSTRUCT OUTLET DITCH. CONNECT TO EXISTING 18" PIPE.	1 14
87	440+80	18" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	126'			750.45 745.00		8.0			1 14
ACCESS RD. No. 4A											
88	440+80	18" GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	40'			754.50 750.50					2 14
89	446+95	5' 5" STD. REINF. CONC. BOX CULVERT # W-1 WINGS	76'			740.00 737.00	33.80 138.5	11.375		EXTEND EXIST. CONC. BOX CULVERT ON LT. CONSTRUCT OUTLET DITCH. SEE SHEET NO. 64 FOR STD. STRUCT. CONNECTIONS FOR EXTENSIONS.	1 14
90	447+50	12" STD. INLET TYPE E-7 & GA. NO. 16 PIPE (F.B.C.C.S./P.I.)	116'			752.78 738.50		3.5			1 13
		2 - 22' 30" BENDS REQ'D.									
91	451+60	12" STD. INLET TYPE E-7 & GA. NO. 16 PIPE (F.B.C.C.S./P.I.)	104'			752.99 745.00		3.5			1 14
		2 - 22' 30" BENDS REQ'D.									
92	453+85 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			755.55 755.50				CLASS II DRIVE REQ'D.	2 14
93	454+23 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			754.59 754.45				CLASS II DRIVE REQ'D.	2 14
94	458+00	12" STD. INLET TYPE E-7 & GA. NO. 16 PIPE (F.B.C.C.S./P.I.)	100'			754.24 748.00		3.5		CONNECT TO SUBSURFACE DRAIN	1 14
		2 - 22' 30" BENDS REQ'D.									

November 6, 1964

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH "L"	SKEW	COVER	FLOW LINE UP DOWN ELEV. ELEV.	CONCRETE CLASS "C"	SPECIAL BORROW GRADE "B"	REINFORCING STEEL LBS.	REMARKS	CULVERT PIPE END SECTION PLANS SHEET NO.
LINE 'B' CONT'D.											
95	455+36.5	5' 5" STD. REINF. CONC. BOX CULVERT # W-1 WINGS	100'			748.00 742.00	50.50 303.5	13.367		EXTEND EXIST. CONC. BOX CULVERT WITH 92' LIN. FT. LEFT & 8' LIN. FT. RIGHT. SEE SHEET NO. 64 FOR STD. STRUCTURE CONNECTIONS FOR EXTENSIONS. CLASS II DRIVE REQ'D.	1 14
96	459+60 LT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	28'			757.94 757.86					2 14
97	459+60 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	30'			759.47 759.40					2 14
ACCESS RD. No. 6											
98	0+35	12" GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	30'			768.16 767.50					2 14
LINE 'B'											
99	459+60	12" GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	16'			759.68 759.30		7.2		COMM. DRIVE X-OVER REQ'D.	2 14
100	464+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	90'			759.80 753.60		10.4		CONNECT TO SUBSURFACE DRAIN	1 15
101	466+05	78" STRUTTED F.B.C.C.S./P.I. GA. NO. 10 OR 306" R.C. CULVERT PIPE	306'			789.00 786.00	4.71 288.9			STRUCTURAL PLATES STEEL: GA. NO. 10 TOP & SIDES, GA. NO. 8 BOTTOM. PIPE ANCHORS REQ'D. EACH END. CONSTRUCT OUTLET DITCH. SEE SPECIAL PROVISIONS. 50 S.Y. RIPRAP REQ'D. @ OUTLET END.	15
102	466+91	18" 6" EXISTING CONC. BOX CULVERT					460.0			REMOVE WINGS ON RT. REMOVE TOP SLAB & BACKFILL WITH GRADE "B" SPECIAL BORROW.	15
ACCESS RD. No. 7											
103	5+90	22" 15" GROUP H-1 PIPE ARCH (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	30'			736.50 736.00				CONSTRUCT OUTLET DITCH.	2 15
LINE 'S-12-B'											
104	48+60 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	56'			773.00 772.50					2 15
105	49+05	28" GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	56'			768.55 768.31					2 15
106	53+15 LT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			764.50 761.50				CLASS II DRIVE REQ'D.	2 15
LINE 'B'											
107	472+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	96'			769.44 764.00		29.0			1 15
108	485+68	6" GROUP 'L' PIPE	200'				37.0			CONNECT TO EXIST. 6" FIELD TILE LT. & RT. REMOVE FIELD TILE IN PLACE.	15
109	493+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	74'			771.17 771.00		7.2			1 16
110	494+20 LT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	24'			769.81 769.55				CLASS II DRIVE REQ'D.	2 16
111	494+20 RT.	GROUP 'D' PIPE (GA. NO. 16 C.S.) (GA. NO. 12 C.A.A.)	30'			770.26 769.66				CLASS II DRIVE REQ'D.	2 16
112	497+20	66" F.B.C.C.S./P.I. GA. NO. 12 OR 60" R.C. CULVERT PIPE	254'			780.50 748.50	3.92 231.0			STRUCTURAL PLATES STEEL: GA. NO. 12 TOP & SIDES, GA. NO. 10 BOTTOM. PIPE ANCHORS REQ'D. EACH END. CONSTRUCT INLET & OUTLET DITCHES.	16
113	497+92	8' 5" EXISTING R.C. BOX CULVERT					225.0			REMOVE TOP SLAB & BACKFILL WITH GRADE "B" SPECIAL BORROW.	16
114	501+60	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA. NO. 16 F.B.C.C.S./P.I.)	80'			762.50 760.50		3.5		CONNECT TO SUBSURFACE DRAIN	1 16

10/1/65

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
F 70 (10)		38	242	

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

STRUCTURE DATA

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

FEDERAL ROAD DISTRICT NO. 4 STATE IND. PROJECT NO. F 70(10) FISCAL YEAR 1964 SHEET NO. 39 TOTAL SHEETS 242

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE UP DOWN ELEV. ELEV.	CONCRETE CLASS 'D'	SPECIAL BORROW GRADE 'B'	REINFORCING STEEL	REMARKS	CULVERT PIPE END SECTION PLANS ON SHEET NO.
LINE 'B' CONT'D.											
115	504+00	36" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	194'	30"	6'	761.00 757.00	---	51.5		CONSTRUCT INLET DITCH. REMOVE EXISTING PIPE.	2 16
116	504+40 R.	6" C.S. PIPE (GA No. 18)	6'							No PIPE END SECTION REQ'D.	16
117	504+60 R.	8" C.S. PIPE (GA No. 16)	6'							No PIPE END SECTION REQ'D.	16
Access Rd. No. 8											
118	514+40	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	32'		1.0'	770.90 769.50				CONSTRUCT OUTLET DITCH.	2 16
LINE 'B'											
119	515+40 R.	18" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 10 C.A.R.)	40'		1.0'	769.30 768.90					2 16
120	517+00	36" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	140'		3'	768.50 767.25					2 16
121	523+30	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	86'			764.63 764.62		7.4			1 17
122	524+00 R.	6" C.S. PIPE (GA No. 18)	6'							No PIPE END SECTION REQ'D.	17
LINE 'B-13-B'											
123	48+50 L.	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	36'		1.0'	767.02 766.36				REMOVE EXISTING PIPE ON LT. @ STA. 49+00 CLASS IV DRIVE REQ'D.	2 17
124	49+10	15" GROUP 'H' PIPE ARCH (GA No. 16 C.S.) (GA No. 12 C.A.R.)	80'		1.8'	765.45 765.18					2 17
125	51+00	24" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	66'		1.5'	764.35 764.18					2 17
126	51+30 L.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	24'		1.0'	763.40 761.00				CLASS II DRIVE REQ'D.	2 17
LINE 'B'											
127	527+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	76'		3.7'	763.50 763.18		3.9		CONNECT TO SUBSURFACE DRAIN	1 17
128	525+62 531+38	6" DRAIN TILE	576'							12" x 12" x 6" TEE REQ'D.	17
129	531+38	12" GROUP 'I' PIPE	190'							CONNECT TO EXISTING 12" FIELD TILE LT. & RT. REMOVE F. TILE IN PLACE	17
130	531+50	36" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	166'		7'	759.75 759.50		15.1		REMOVE EXISTING DROP INLET	2 17
131	533+44 L.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	21'		2.5'	763.03 762.16				REMOVE EXISTING PIPE & DRIVE. CLASS II DRIVE REQ'D.	2 17
132	533+44 R.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	26'		1.0'	764.75 763.90				CLASS IV DRIVE REQ'D.	2 17
133	538+90	15" EXISTING CONC. PIPE						0.20		SEAL & ABANDON. REMOVE HEADWALLS.	17
134	543+50	15" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	72'		2.7'	762.05 762.00		4.7			1 17
135	544+21 L.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	30'		1.0'	763.84 763.48				REMOVE EXISTING PIPE & DRIVE. CLASS III DRIVE REQ'D.	2 17
136	544+21 R.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	26'		3.0'	761.50 761.10				CLASS II DRIVE REQ'D.	2 17
Access Rd. No. 9											
137	545+40	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	32'		1.0'	764.40 763.00					2 17
138	547+20	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	30'		1.0'	761.50 761.20					2 17
LINE 'B'											
139	548+30 L.	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	20'		1.0'	759.00 758.80				CONSTRUCT INLET & OUTLET DITCHES.	2 17
140	548+30	15" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	86'			758.00		4.9		EXTEND PIPE IN PLACE.	1 17
141	548+33	6" GROUP 'I' PIPE	100'					7.3		CONNECT TO EXIST. 4" F. TILE LT. & RT. REMOVE F. TILE IN PLACE	17
142	551+00	15" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	80'		4.0'	754.90 754.75		7.7			1 17
143	552+32	8" GROUP 'I' PIPE	100'					35.6		CONNECT TO EXIST. 8" F. TILE LT. & RT. REMOVE F. TILE IN PLACE	18
144	553+40	15" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	86'			750.50				EXTEND PIPE IN PLACE.	1 18
145	553+55	6" GROUP 'I' PIPE	110'							CONNECT TO EXIST. 6" FIELD TILE LT. & RT. REMOVE F. TILE IN PLACE	18
146	558+00	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	76'		3.4'	747.75 747.50		7.4		CONNECT TO SUBSURFACE DRAIN	1 18

STRUCTURE NUMBER	LOCATION	DESCRIPTION	LENGTH L'	SKEW	COVER	FLOW LINE UP DOWN ELEV. ELEV.	CONCRETE CLASS 'D'	SPECIAL BORROW GRADE 'B'	REINFORCING STEEL	REMARKS	CULVERT PIPE END SECTION PLANS ON SHEET NO.
LINE 'B' CONT'D.											
147	563+25 R.	6" C.S. PIPE (GA No. 18)	6'							1-45° BEND REQ'D.	18
148	565+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	82'		4.3'	738.55 737.00		12.0			1 18
149	566+00 L.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	24'		1.0'	741.05 740.95				REMOVE EXISTING PIPE. CLASS II DRIVE REQ'D.	2 18
150	566+00 R.	36" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 10 C.A.R.)	36'		1'	736.33 735.75				CLASS II DRIVE REQ'D.	2 18
151	568+15	36" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	148'		3'	736.03 735.33		25.2		REMOVE EXISTING STRUCTURE	2 18
LINE 'A'											
151A	2+40 L.	12" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	42'		1.0'	635.90 635.70				CLASS IV DRIVE REQ'D. REMOVE EXISTING STRUCTURE	2 18
152	4+70	36" GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	176'		6'	730.22 729.23		42.6		REMOVE EXISTING STRUCTURE	2 18
153	6+00	15" STD. INLET TYPE E-7 & GA No. 16 PIPE (F.B.C.C.S./R1)	108'		3.1'	930.61 721.71		3.6		CONNECT TO SUBSURFACE DRAIN	1 18
LINE 'S-1-A'											
154	31+20	S.P.S. ARCH (MIN. AREA = 23 S.F.) OR GROUP 'R' PIPE (SEE SPEC. PROVISIONS)	84'		2.5'	720.40 719.30		4.72		STRUCTURAL PLATES: GA No. 12 T.F.S. GA No. 10 BOTTOM STR. PLATE PIPE ANCHORS REQ'D. AT EACH END. REMOVE EXIST. STRUCTURES	18
155	35+75 R.	S.P.S. ARCH (MIN. AREA = 39 S.F.) OR GROUP 'R' PIPE (SEE SPEC. PROVISIONS)	70'		2.5'	724.90 724.00		6.37		STRUCTURAL PLATES: GA No. 12 T.F.S. GA No. 10 BOTTOM STRUCTURAL PLATE PIPE ANCHORS REQ'D. AT BOTH ENDS. COMM. DRIVE REQ'D.	20
LINE 'A'											
156	10+00	12" STD. INLET TYPE E-7 & GA No. 16 PIPE (F.B.C.C.S./R1)	102'		4.2'	721.50 717.13		3.6			1 18
2-22° 30' BENDS REQ'D.											
157	10+62 R.	6" C.S. PIPE (GA No. 18)	6'							No PIPE END SECTION REQ'D.	19
158	11+22 R.	S.P.S. ARCH (MIN. AREA = 55 S.F.) OR GROUP 'R' PIPE (SEE SPEC. PROVISIONS)	60'		8'	716.20 716.10		8.46		STRUCTURAL PLATES: GA No. 12 T.F.S. GA No. 10 BOTTOM STR. PLATE PIPE ANCHORS REQ'D. AT EACH END. CLASS IV DRIVE REQ'D.	19
OLD U.S. No. 31 (PAPER RELOCATION)											
159	0+80	24" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 10 C.A.R.)	62'		3.0'	723.25 720.85				REMOVE EXISTING PIPE	2 19
LINE 'A'											
160	13+00	10'-3" EXIST. STRUCT. PLATE STEEL ARCH (MIN. AREA = 53 Sq. Ft.)	84'		15'	715.25		2.79		EXTEND ON RIGHT. STR. PLATES: GA No. 12 TOP & SIDES, GA No. 10 BOTTOM STR. PLATE PIPE ANCHORS REQ'D. AT INLET END ONLY. FIELD CONNECT TO EXISTING STRUCTURE	19
161	15+50	12" STD. INLET TYPE E-7 & GROUP 'A' PIPE (GA No. 16 F.B.C.C.S./R1)	74'		3.1'	724.25 723.90					1 19
162	16+50 R.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	30'		3.0'	722.10 721.90				CLASS II DRIVE REQ'D.	2 19
163	17+20 R.	15" GROUP 'D' PIPE (GA No. 16 C.S.) (GA No. 12 C.A.R.)	30'		4.0'	721.75 721.55				CLASS II DRIVE REQ'D.	2 19
UNDISTRIBUTED QUANTITIES											
			TOTAL			235.82			3011.5		
						54.791					

TABLE OF QUANTITIES AND APPROACHES

FED. ROAD DISTRICT NO.	STATE	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	70001	1984	40
			40	242

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																			
LOCATION	DESCRIPTION	EXCAVATION QU-YDS		WIDTH	RADIUS	LENGTH	DISTANCE BEYOND NEW LINE	COMPACTED AGGREGATE TYPE "B" BASE - SQ. YARDS					BITUMINOUS SURFACE TONS	BITUMINOUS BASE TONS	CLEANLY WASHED SAND	PAVEMENT	BITUMINOUS PAVEMENT	CONC. CURB	CONC. CURB
		CUT	FILL					3"	6"	9"	12"	15"							
Line 8																			
Sta. 242+26.55 - Sta. 254+10	TEMP. PAV. TYPE I	0	0	12	15' 4 1/2"	25'		934					193	67	1019	365		173	
Line 5-T-B (Wood Rd) at Sta. 164+10 B' Lt. 6 Rt.																			
Sta. 2+58 Lt.	I	0	3	12	15' 4 1/2"	25'													
Sta. 2+58 Rt.	I	0	3	12	15' 4 1/2"	25'													
Sta. 3+51	PUBLIC ROAD APP. TYPE "B"	18	62					175							99	29	151	0.26	10
Lt. Turn Lane	SEE CROSS SECTIONS														362		223		
PUBLIC ROAD	0	54													185		102	47	2.0
Lt. Turn Lane	SEE CROSS SECTIONS														362		223		
Sta. 4+49	PUBLIC ROAD APP. TYPE "B"	25	57					165							99	27	151	0.24	10
Sta. 5+58 Lt.	I	0	1	12	15' 4 1/2"	25'													
Sta. 5+58 Rt.	I	0	0	12	15' 4 1/2"	25'											9	0.08	
Line 5-B-B (Old S.R. 110) at Sta. 290+59 B' Lt.																			
Sta. 820+58 Lt.	I	35	6	12	15' 4 1/2"	110'	80'	167									28	0.24	
Sta. 824+10.3	SPECIAL PUBLIC ROAD APPROACH							99									16	0.14	
Rt. Turn Lane	SEE CROSS SECTIONS														347		115		
PUBLIC ROAD	0	54													407		115	87	2.0
Lt. Turn Lane	SEE CROSS SECTIONS														396		238		5
Line 5																			
Sta. 298+99.5 Rt.	PUBLIC ROAD APP. TYPE "B"	3	158	28	25'	96'		304									58	0.44	
Access Rd. No. 1 Sta. 280+73.5 - Sta. 296+14																			
PUBLIC ROAD	438	581	28	25'				590.5											
Line 5-B-B (Two Line Rd) at Sta. 316+13.3 B' Rt.																			
Lt. Turn Lane	SEE CROSS SECTIONS														484		234		
PUBLIC ROAD	0	54													269		162		2.0
Sta. 30+51	PUBLIC ROAD APP. TYPE "B"	71	0					360							99	60	151	0.53	10
Sta. 54+18 Rt.	I	1	3	12	15' 4 1/2"	25'													
Line P.R. #1																			
Sta. 341+18-370-25	TEMP. PAV. TYPE II	357	0			815'									1502				
Sta. 358+56	PUBLIC ROAD	0	25														125	12	2.0 130
Sta. 358+56 Rt.	II Combined	0	15	18	5' 4 1/2"	27'		64									11	0.09	
Sta. 354+13 Rt.	Comm. Drive II	6	19	48				182									30	0.17	

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																			
LOCATION	DESCRIPTION	EXCAVATION QU-YDS		WIDTH	RADIUS	LENGTH	DISTANCE BEYOND NEW LINE	COMPACTED AGGREGATE TYPE "B" BASE - SQ. YARDS					BITUMINOUS SURFACE TONS	BITUMINOUS BASE TONS	CLEANLY WASHED SAND	PAVEMENT	BITUMINOUS PAVEMENT	CONC. CURB	CONC. CURB
		CUT	FILL					3"	6"	9"	12"	15"							
Line P.R. 1 (Cont.)																			
Sta. 354+34 Rt.	Comm. Dr.	3	9	30	10'	45'		181										23	0.21
Line 5-B-B (S.R. 110 South) at Sta. 356+87.51 P.R. #1 Rt.																			
Lt. Turn Lane	SEE CROSS SECTIONS														760		310		
PUBLIC ROAD	0	54													319		162	79	2.0
Rt. Turn Lane	SEE CROSS SECTIONS														663		302		
Sta. 38+41.47	SPECIAL PUBLIC ROAD APPROACH	167	93										781	35	111				1.14
Sta. 51+55 Rt.	Comm. Dr.	6	3	48	10'	12'		58									10	0.09	
Sta. 52+30 Lt.	II	2	4	20	2.0'	230'		594									98	0.87	
TEMPORARY SQUARE	54	47	14			266.1'							710						
Line P.R. #1																			
Sta. 376+00 Rt.	Rt. Turn Lane														396		223		
Sta. 376+00 Rt.	SPECIAL PUBLIC ROAD APPROACH														115		76		1.0
Line 5-14-B (Entrance to Bunker Hill AFB Sta. 380+16.77 P.R. #1 Lt.)																			
Sta. 47+75 Rt.	I	0	14	12	15' 4 1/2"	25'		54									9	0.08	
Sta. 47+75 Lt.	I	0	33	12	15'	15'													
Sta. 46+93.74	Special Appr.	468	0					894									148	1.31	
Rt. Turn Lane	SEE CROSS SECTIONS														732		295		
Lt. Turn Lane	SEE CROSS SECTIONS														361		223		
SPECIAL CRIPPLE	0	51													234		204	48	2.0
Lt. Turn Lane	SEE CROSS SECTIONS														628		295		
Line P.R. #1																			
Sta. 380+16.77 Rt.	SPECIAL PUBLIC ROAD APPROACH	0	38												191		173		2.0
Frontage Rd. #1 (Existing L.S. at Sta. 368+30 to Sta. 387+77 Line 8 to Remain)															1073				
P.O.T. Sta. 390+69.86 Left															85	120		45	
P.O.T. Sta. 390+69.86 Right															100	120		45	
Sta. 395+48	PRIVATE DR. CROSSOVER	0	15														125	12	2.0 130
Sta. 395+48 Rt.	II	87	70	12	5' 4 1/2"	11.82'		141									23	0.21	
Sta. 410+94 Rt.	IV	687	24			79'		211									35	0.30	
Access Rd. No. 2 Sta. 0+00 to Sta. 4+58.5 Sta. 4+58.5 to Sta. 4+50.5 Sta. 4+50.5 to Sta. 4+17.72																			
Bitum. Surf.	799	1398	18			458.5'		906					41	129				1.32	

** APPROACHES REQUIRING GRADES OVER 10% WILL BE SPECIAL CASES
PROPOSED RELOCATED DRIVES WILL BE SHOWN ON THE PLANS OR DESCRIBED UNDER "REMARKS".
(1) COMPACTED AGG. BASE FOR SHOULDER. SEE DETAILS ON PLAN SHEET NO. 25
(2) FOR ADDITIONAL TEMP. X-OVER QUANTITIES SEE PLAN SHEET NO. 25
(3) SEE DETAIL ON PLAN SHEET NO. 28 FOR 82 LFT. OF CONC. CENTER CURB TYPE B AND 79 SQ. YDS. OF CONC. SIDEWALK

DETAILS

TABLE OF QUANTITIES AND APPROACHES

Rev. 10-17-68, C.I. Dr. @ Sta. 415+50.3, Rt. Line 'B'

Rev. 11-4-69, ACCESS ROAD NO. 4A
FED. ROAD REGION NO. 4 STATE IND. 70003 FISCAL YEAR 1964 SHEET NO. 41 TOTAL SHEETS 242

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **

LOCATION	DESCRIPTION	EXCAVATION CU. YDS.		WIDTH	RADE	LENGTH	DISTANCE BEYOND R/W LINE	COMPACTED AGGREGATE TYPE 'V' BASE - SQ. YARDS					BITUMINOUS SURFACE TOUS	BITUMINOUS BASE TOUS	CONCRETE TOUS	B.C.C. PAVEMENT TOUS	BITUMINOUS CURB L.F.T.	CONC. CURB L.F.T.	BITUM. MIXT. FOR APPROACH L.F.T.	ALUM. STEEL FOR PAVEMENT L.F.T.	PREFORMED JOINT FILLER L.F.T.	BITUM. JOINT FILLER L.F.T.	RC GUTTER L.F.T.	PREFORMED JOINT FILLER L.F.T.	CONC. PAVT. CONC. PAVT. SYS.
		CUT	FILL					3"	5"	8"	11"	12"													
Line 'S-11-B' (S.R. 218 North) at Sta. 415+50.3 B.J. Lt.																									
Sta. 219+50 Rt.	Y	0	15	12'	15'±25'	27'																			
Sta. 220+82.62	SPECIAL PUBLIC ROAD APPROACH	289	41	See	Spec. Detail on Sheet #27								733	33		105				291				1.07	
Rt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #27 (S.B.)													691				301					
Lt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #27 (S.B.)													515				280				5	
PUBLIC RD. CROSSOVER	0	51	See	Spec. Detail on Sheet #27												319				280	52			20	
Lt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #27 (N.B.)													664				295					
Rt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #27 (N.B.)													687				280					
Line 'B'													233						11				0.34		
Sta. 415+50.3 Rt.	SEE SPEC. DETAIL ON SHEET #27												261						60				0.38		
TEMPORARY BARRICADE	289	3	14	See	Spec. Detail	310.6							826												
Frontage Rd. No. 2 Sta. 0+00	3+140 @ Sta. 219+70 'S-11-B', Lt.																								
PUBLIC ROAD BITUM. SURFACE	579	41	18'	See	PLAN	303.9'							634			29								0.93	
Line 'B'																									
Sta. 426+90 Lt.	II	7	26	12'	3'±20'	45'	70'												12				0.10		
Sta. 426+90	PUBLIC ROAD TYPE 'C'	0	51	See	Std. Detail											313				238	47			20	
Sta. 426+90 Rt.	PUBLIC ROAD TYPE 'C'			See	Std. Detail																				
Sta. 426+90 Rt.	II	59	0	18'	20'	18%	64'	22'					148							24				0.22	
Line 'P.R.#2' (Ripple Rd.) Sta. 0+00	5+80 @ Sta. 426+90 'B', Rt.																								
PUBLIC ROAD BITUM. SURFACE	2173	0	18'	See	PLAN	451'							961			60			99				1.40		10
Sta. 3+58 Lt.	II	51	3	18'	20'	18%	44'	19'					107						18				0.16		
Access Rd. No. 3 Sta. 426+90	Sta. 428+92 'B', Lt.																								
PUBLIC ROAD GRADED ONLY	761	246	18'	15'		193'																			
Line 'B'																									
Sta. 432+74 Rt.	IV	1005	8	18'	10'	10%	136'	84'					277						46				0.12		
Sta. 432+74	COMM. DR. CROSSOVER	8	32	See	Std. Detail											197				125	24			20	
Access Rd. No. 4 Sta. 0+00	Sta. 1+716 @ Sta. 440+25 'B', Lt.																								
TYPE 'A' DRIVE	1370	0	28'	See	PLAN	223'							476			22			57				2.67		
Line 'B'																									
Sta. 440+25	SPECIAL PUBLIC ROAD APPROACH	8	15	40'	19'±31'	50'										286				125	30			20	
Access Rd. No. 4A Sta. 440+25	to 441+70 'B', 135' Rt.	120	1012	40'±10'	35'	231'							9.5			42			111				1.16		
Sta. 440+25 Rt.	II	5	0	12'	25'								45						8				0.07		

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **

LOCATION	DESCRIPTION	EXCAVATION CU. YDS.		WIDTH	RADE	LENGTH	DISTANCE BEYOND R/W LINE	COMPACTED AGGREGATE TYPE 'V' BASE - SQ. YARDS					BITUMINOUS SURFACE TOUS	BITUMINOUS BASE TOUS	CONCRETE TOUS	B.C.C. PAVEMENT TOUS	BITUMINOUS CURB L.F.T.	CONC. CURB L.F.T.	BITUM. MIXT. FOR APPROACH L.F.T.	ALUM. STEEL FOR PAVEMENT L.F.T.	PREFORMED JOINT FILLER L.F.T.	BITUM. JOINT FILLER L.F.T.	RC GUTTER L.F.T.	PREFORMED JOINT FILLER L.F.T.	CONC. PAVT. CONC. PAVT. SYS.
		CUT	FILL					3"	5"	8"	11"	12"													
Line 'B'																									
Sta. 446+8 Lt.	II	8	147	12'	5'±20'	13.2%	90'	40'											22					0.19	
Sta. 446+8	PUBLIC ROAD TYPE 'C' CROSSOVER	0	25	See	Std. Detail															125	12			20	130
Access Rd. No. 5 @ Sta. 450+60	Lt. Turn Lane	0	2322	18'	25'	See	PROFILE	251'					532			24			64						
Line 'B'																									
Sta. 450+60	COMM. DRIVE CROSSOVER	0	32	See	Std. Detail											197				125	24			20	
Access Rd. No. 5A Sta. 450+75	to Sta. 452+16 'B', 135' Rt.																								
Sta. 450+75 Rt.	II	106	46	18'	15'±25'	240'							547			25			66					0.80	
Sta. 450+85 Rt.	II	5	0	15'	15'								31						5					0.05	
Sta. 454+00	SPECIAL PUBLIC ROAD APPROACH	0	25	40	19'±31'	50'													22					0.20	
Sta. 454+18 Lt.	II	4	132	12'	15'±25'	10%	81'	22'					128												20
Sta. 454+23 Rt.	II	3	28	12'	15'±25'								64												
Sta. 459+60 Lt.	II	57	46	12'	15'±20'								96'	46'		138									
Sta. 459+60	COMM. DR. CROSSOVER	8	32	See	Std. Detail											197				125	24			20	
Class II Drive On Lt.	Sta. 459+66 to Sta. 460+90 'B', 135' Lt.																								
II	286	10	12'	15'±25'		114'	114'						186						31					0.27	
Access Rd. No. 6 Sta. 0+00	to Sta. 3+567 @ Sta. 459+60 'B', Rt.																								
PUBLIC ROAD TYPE 'C' APPROACH	1226	71	18'	See	PLAN	307.7'							645			29			77						0.94
Sta. 1+05 Rt.	Y	8	2	12'	15'±25'	117'	25'						4'												
Line 'B'																									
Sta. 463+85	PUBLIC ROAD TYPE 'C' CROSSOVER	8	25	See	Std. Detail																				
Sta. 463+85 Rt.	II	11	3	12'	15'±20'								52			80									
Temporary Barricade	Sta. 461+426 to Sta. 469+91.4																								
	795	0	24	See	Spec. Detail on Sheet #22																				
Access Rd. No. 7 Sta. 0+00	to Sta. 6+00 @ Sta. 460+60 'S-12-B' Rt.																								
Bitum. Surface	5269	28	18'	See	PLAN	589'	549'						1197			54			144						1.75
Line 'S-12-B' (Dunbar & Maple Rd.) at Sta. 471+46.5	Line 'B' Lt. @ Rt.																								
Sta. 49+91	SPECIAL PUBLIC ROAD APPROACH	47	8	See	Spec. Detail on Sheet #29								229						280				38	477	0.33
Lt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #29													362							123		
PUBLIC ROAD CROSSOVER	8	51	See	Spec. Detail on Sheet #29												185							204	46	20
Lt. Turn Lane	SEE CROSS SECTIONS	See	Spec. Detail on Sheet #29													362							223		

** APPROACHES REQUIRING GRADES OVER 10% WILL BE SPECIAL CASES. PROPOSED RELOCATED DRIVES WILL BE SHOWN ON THE PLANS OR DESCRIBED UNDER "REMARKS".

DETAILS

10/1/65
Proj. No. 1-76 (B) LINE SHEET No. 41 P.B.

TABLE OF QUANTITIES AND APPROACHES

Rev. 10-17-68. Qty Totals.

FED. ROAD REGION NO.	STATE	F PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	70109	1964	42	242

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																										
LOCATION	DESCRIPTION	EXCAVATION CU YDS.		WIDTH "W"	PAVE "P"	GRADE LESS THAN 10' IN. NOT SHOWN	LENGTH "L"	DISTANCE BETWEEN R/W LINE	COMPACTED TYPE "P" BASE - SQ. YARDS				BITUMINOUS SURFACE TONS	BITUMINOUS SURFACE TONS	CLAYE CONCRETE SQ. YDS.	C.C.R.C. PASSTENT SQ. YDS.	BITUMINOUS CURB LIN. FT.	JUNC. CURB L.T.	BITUM. MINT. TONS	BLK INF STEEL FOR PAVEMENT TONS	PP PREPARED JOINT FILLER TONS	RC GUTTER LIN. FT.	PP PREPARED JOINT FILLER TONS	RC GUTTER LIN. FT.	PP PREPARED JOINT FILLER TONS	
		CUT	FILL						3'	5'	8'	11'														12'
Line S-12-B Sta. 50 + 49	(Cont.) PUBLIC ROAD APPROACH			See	Std.	Detail						178														
Sta. 50 + 15 Lt.	II	7	105	12	15 1/2		175	145	254								99			30	151		0.26		10	
Line B																			42			0.37				
Sta. 494 + 29 Lt.	II	0	7	12	5 1/2		40		64																	
Sta. 494 + 20	CORRAL DRIVE	0	32	See	Std.	Detail													11			0.09				
Sta. 494 + 28 Rt.	III	18	527	18	SEE PLAN		181	148	456								197			125	24				20	
Temporary Runaround	Sta. 494 + 17 1/2 to Sta. 501 + 48 1/2	754	0	24	SEE SPECIAL DETAIL ON SHEET # 32		1946.1					3288							75			0.67				
Sta. 584 + 11 - 584 + 30	TEMP. EARTH TYPE II			24	SEE SPECIAL DETAIL ON SHEET # 32		220										267									
Sta. 515 + 48	CORRAL DRIVE CONDUIT	0	37	40	19 1/2		50																			
Sta. 515 + 48 Rt.	SPECIAL PUBLIC ROAD APPR. BITUM. SURF.	36	52	28	35		85				267						286			125	24				20	
Access Rd.	No. 8 Sta. 511 + 17 to Sta. 515 + 26 B, 1/2 RT.																		48			0.62				
Sta. 514 + 64.5	PUBLIC ROAD APPROACH	461	113	18	30		411				852			38		102										
Sta. 515 + 54.0	Comm. Dr.			20	15	60	60	44			225								37			1.24				
Line S-13-B (Head Rd.)	At Sta. 514 + 42 1/2 B U.E.M.			18	30		30	19			82								14			0.33				
Sta. 48 + 50 Lt.	IV	8	1	15	20		28	12			59															
Sta. 49 + 51	SPECIAL PUBLIC ROAD APPROACH			See	Spec.	Detail	on Sheet # 29				234								10			0.09				
	Rt. Turn Lane	SEE CROSS SECTIONS		See	Spec.	Detail	on Sheet # 29												39			0.34				
	Lt. Turn Lane	SEE CROSS SECTIONS		See	Spec.	Detail	on Sheet # 29										440			230						
	PUBLIC ROAD APPROACH	II	51		See	Spec.	Detail	on Sheet # 29									362			223						
	Lt. Turn Lane	SEE CROSS SECTIONS		See	Spec.	Detail	on Sheet # 29										185			204	48				20	
	Rt. Turn Lane	SEE CROSS SECTIONS		See	Spec.	Detail	on Sheet # 29										362			223						
Sta. 50 + 49	SPECIAL PUBLIC ROAD APPROACH	97	8	See	Spec.	Detail	on Sheet # 29				331						440			230						
Sta. 51 + 30 Lt.	II	1	6	12	15 1/2		25	18	54										55			0.48				
Line B																			9			0.08				
Sta. 533 + 44 Lt.	II	8	10	12	5 1/2		40	10	64																	
Sta. 533 + 44	PAVE ON CROSS-DRAIN	8	25	See	Std.	Detail													11			0.09				
Sta. 533 + 44 Rt.	II	0	23	18	10		40		85											125	12			20	130	
Sta. 544 + 21 Lt.	PUBLIC ROAD APPROACH	43	18	28	20		46				132								14			0.12				
Sta. 544 + 21	CORRAL DRIVE 2'-CUT	30	5	See	Std.	Detail													22			0.19				
Sta. 544 + 21 Rt.	II	0	48	12	5 1/2		40		64								197			125	24				28	
Access Rd.	No. 9 Sta. 544 + 11 to Sta. 547 + 50 1/2 104' Lt.																		11			0.09				
	PUBLIC ROAD APPROACH	70B	7	18 1/2	28 1/2		399				688			31		83										
Sta. 544 + 11 Lt.	Y	2	0	12	5 1/2		15																			1.00
Sta. 545 + 60 Lt.	II	13	0	12	19 1/2		25	14	54										9			0.08				
Sta. 547 + 40 Lt.	II	8	0	12	15		25	14	44										7			0.06				

DESIGN DATA AND QUANTITIES BASED ON MAX. OF 10% GRADE EXCEPT AS NOTED **																										
LOCATION	DESCRIPTION	EXCAVATION CU YDS.		WIDTH 'W'	RAOI 'R'	LENGTH 'L'	DISTANCE (FEET) FROM P/W LINE	COMPACTED AGGREGATE TYPE "B" BASE - SQ. YARDS					BITUMINOUS SURFACE TONS	BITUMINOUS BASE TONS	CONCRETE CURBS CU YD.	E.P.C.R.C. PAVEMENT TONS	BITUMINOUS CONCRETE FOR DRIVE TONS	CONC. CURB CU YD.	L.T. PAVEMENT PAVEMENT TONS	REIN. STEEL VAN LOADS LBS.	FLASHERS W/OAD TONS	BITUM. MAT'L FOR DRIVE TONS	AC GUTTER LIN. FT.	"PREPARED JOINT LIFT"	S PLAN CM.V.T.	
		CUT	FILL					'S'	'S'	'E'	'I'	'I'														
/ ACCESS Rd. No. 9 (Continued)																										
Sta. 947+30 Lt.	II	17	29	12'		207'		282												47				0.41		
Sta. 966+00 Lt.	II	9	0	11'	5x10'	2.8'		4.8												8				0.07		
Sta. 966+00	PRIVATE DR. CROSSOVER	0	25	See Std.	Detail																					
Sta. 966+00 Rt.	II	419	172	12'	5x10'	314'	254'	429													125	12			20	130
Line 'S-A' (Mangans Rd)	At Sta. 7+09.0	A' LT. & RT.																			71			0.63		
Sta. 49+51	PUBLIC ROAD APPROX. TYPE D			See Std.	Details			93							53					15	87			0.14		10
Lt. Turn Lane	SEE CROSS-SECTIONS			See Spec.	Details on Sheet #30										154						217				5	
PUBLIC ROAD CROSS OVER	O	51		See Std.	Details on Sheet #30										168						102	46			20	
Rt. Turn Lane	SEE CROSS-SECTIONS			See Spec.	Details on Sheet #30										433											
Sta. 50+49	SPECIAL PUBLIC ROAD APPROACH	373	362	See Spec.	Details on Sheet #30			674													230					
Sta. 51+75 Rt.	Comm. Drive	3	471	40	75	10%	85'	10'	399											189				0.91		
Line 'X'																				66				0.58		
Sta. Z+40 Lt.	IV	12	0	30'	20'	86'		258												43				0.38		
Sta. Z+40	COMM. DRIVE CROSOVER	0	92	30'	194 31'	50'																				
Did U.S.	* 31 Sta. 0+00 to Sta. 2+00 At Sta. 11+23 N.Ly.														140					175	30				20	
Sta. 0+55 Rt.	II	17	0	See Spec.	Detail on Sheet #30	33		129												21				0.19		
Sta. I+47.9	SPECIAL PUBLIC ROAD APPROACH	23	856	See Spec.	Detail on Sheet #30			687												113				1.00		
Rt. Turn Lane	SEE CROSS-SECTIONS			See Spec.	Detail on Sheet #30										352						191				5	
PUBLIC RD CROSS OVER	O	51		See Spec.	Detail on Sheet #30										167						178	49			25	
Lt. Turn Lane	SEE CROSS-SECTIONS			See Spec.	Detail on Sheet #30										366						102				10	
Line 'A'																										
Sta. 11+22 Rt.	IV	11	1025	20'	10'	100'		227												36				0.33		
Sta. 13+68 Rt.	II	36	174	11'	5x10'	85'		125												21				0.18		
Sta. 16+50 Rt.	II	107	73	12'	5x10'	107'	80'	30'	117											19				0.17		
Sta. 16+85	PRIV. DR. CROSS-OVER	0	25	See Std.	Detail																					
Sta. 17+10 Rt.	II	41	106	19'	5x10'	107'	80'	30'	117												125	12			20	130
Sta. 18+15-ZD+04	TEMP. 3-LANE TYPE II	13	198	24'	150'	See Spec.	Detail on Sheet #31								309					19				0.11		

* * APPROACHES REQUIRING GRADES OVER 10% WILL BE SPECIAL CASES.
PROPOSED RELOCATED DRIVES WILL BE SHOWN ON THE PLANS OR DESCRIBED UNDER "REMARKS"

DETAILS

Recd 10/1/65

Proj. No.	LINE	SHEET No.	FILE
F-70 (10)		42	

DEMOLITION PORTION ITEMS

STATE PROJECT NO. FISCAL YEAR SHEET NO. TOTAL SHEETS
 4 IND F-(70)10 1964 42A 242

PARCEL NUMBER	DESCRIPTION OF STRUCTURE	LOCATION	PARCEL NUMBER	DESCRIPTION OF STRUCTURE	LOCATION
(1)	HOUSE	STA 257+82, 39' RI LINE 'B'			
(11)	HOUSE	STA 398+78, 28' LI LINE 'B'			
(12)	HOUSE GARAGE	STA 413+73, 90.5' LI LINE 'B' STA 413+27, 109' LI LINE 'B'			
(14)	BARN With (2) Attached SHEDS	STA 425+30, 20' LI LINE 'B'			
(29)	HOUSE	STA 530+68, 14' RI LINE 'B'			
(35)	BARN GARAGE With Attached SHED	STA 494+61, 98' RI LINE 'C' STA 493+30, 10' RI LINE 'B'			
(36)	HOUSE SHED	STA 495+25, 57' LI LINE 'B'			
(40)	HOUSE	STA 521+42, 72' RI LINE 'B'			
(42)	HOUSE With Attached FRAME BUILDING QUONSET HUT	STA 525+80, 48' RI LINE 'B' STA 526+00, 52' RI LINE 'B'			
(44)	HOUSE TOOL SHED PRIVY	STA 527+27, 47' RI LINE 'B'			
(45)	BLOCK SILO GARAGE And SHED SHED HOUSE	STA 541+32, 102' RI LINE 'B' STA 535+16, 98' RI LINE 'B' STA 534+42, 10' RI LINE 'B'			
(53)	HOUSE (FRAME)	STA 01+39, 97' LI LINE 'A'			
(59)	HOUSE SHED TOOL SHED BARN With Attached SHED	STA 278+13, 22' RI STA 277+66, 91' RI STA 279+29, 98' RI STA 280+70, 66' RI			

REV. 6-31-69 ADDED BIRTH DATES. ADDED AL.
REV. 11-6-69 ADDED QUANTITIES FOR ACCESS RUNGAA

Rev. 2-5-69. Added Qty. for Bitum. Shingle

STRUCTURE SUMMARY

PIPE ARCHES: LINEAL FEET

KIND	KIND	MIN. AREA SQ. FT. #	STEEL	CONC.	STEEL	CONC.	STEEL	CONC.	STEEL	CONC.	STEEL	CONC.
			14"	16"	18"	20"	24"	30"	36"	42"	48"	54"
GAGE STRUCT.	TOP & SIDES			12	12		12	12	12	12		
PLATES STEEL	BOTTOM											
GAGE												
F.B.C.C.S. ARCH	OR		12								12	16
GROUP R-1			178									
CRUOP												
CROLF H-1												
GROUP H-2											30	166
GROUP H-3												
GROUP H-4												
STR. PLATE STEEL ARCH												
OR GROUP R1						70	84					
CORR. STEEL PIPE ARCH												
STRUCT. PLATE STEEL ARCH												
REINF. ELLIPTICAL CONC.									84	68		
STR. PLATE STEEL ARCH												
OR GROUP R2									60			
BT COAT OR METAL												
PIPE ARCH WITH PAVED												
INVERT												
CULVERT PIPE END SECTION												
											EACH	EACH
											2	4

(*) SPAN AND RISE. WHEN OTHER THAN GROUP C OR GROUP D

UNIT FOR 2 DAY STRIKE (FILL 3/2)

WHICH GROUP IS SPECIFIED.

STRUCTURE SUMMARY (CON'T)

KIND	SIZE	CIRCULAR PIPE LINEAL FEET												
		4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"
GAGE C.S. PIPE		*15	*16		*16	*16	*16	*16	*16	*16	*16	*16	*16	*16
GAGE STRUCT. PLATES	TOP & SIDES													
GROUP A	BOTTOM													
GROUP B						1938	669	126		318	162	976		
GROUP C						452								
GROUP D						325	534	220		234		80		
GROUP E														
GROUP F														
GROUP G														
GROUP H														
GROUP I														
GROUP J														
GROUP K														
GROUP L														
GROUP M														
GROUP N														
GROUP O														
GROUP P														
GROUP Q														
GROUP R														
GROUP S														
GROUP T														
GROUP U														
GROUP V														
GROUP W														
GROUP X														
GROUP Y														
GROUP Z														
GROUP AA														
GROUP AB														
GROUP AC														
GROUP AD														
GROUP AE														
GROUP AF														
GROUP AG														
GROUP AH														
GROUP AI														
GROUP AJ														
GROUP AK														
GROUP AL														
GROUP AM														
GROUP AN														
GROUP AO														
GROUP AP														
GROUP AQ														
GROUP AR														
GROUP AS														
GROUP AT														
GROUP AU														
GROUP AV														
GROUP AW														
GROUP AX														
GROUP AY														
GROUP AZ														
GROUP BA														
GROUP BB														
GROUP BC														
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ITEM				UNIT		QUANTITY				
CONCRETE CLASS "D" FOR STRUCTURES				CYS		256.28				
REINFORCING STEEL FOR STRUCTURES				LB		\$1791.52/33				
ITEMS TO MITIGATE K/W DAMAGES										
ITEM	ACCESS ROAD									
	1	3	4	5	5A	6	7	8	9	TOTAL
COMMON EXCAVATION	438	761	1370	120	106	1726	5769	461	708	11,258 CYS
PAVEMENT TYPE "B"			272	1477	100.9	234	191.0			1,702 TON
BITUM. SURFACE & BASE			167	88	91	106	198	140	114	1,337 TON
BITUM. MAT'L. FOR PRIME			116	0.78	0.80	0.94	1.75	1.24	1.00	8.99 TON
12" GROUP "D" PIPE (C.S.)	32'		2'							156 LFT
12" GROUP "D" PIPE (C.S.)			40'					37'	62'	40 LFT
12" - 13" GROUP "D" C.S. ARCHES										60 LFT
15" - 9" - 10" S.S. ARCH							30'			30 LFT
MIN. AREA = 122 SQ. FT.										62 LFT
CULVERT PIPE END SECTION	2		14			2	2	2	4	14 EACH
FURNISHING & PLACING:										
AGRICULTURAL LIMESTONE	1.5	0.4	0.4	0.2	0.1	0.4	1.5	0.7	0.3	7.1 TON
FERTILIZER	1.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6 TON
SEED	80	24	24	8	24	24	85	39	19	394.83
MULCHING MATERIAL	1.5	0.4	0.4	0.2	0.1	0.4	1.5	0.7	0.3	7.1 TON
CROWN VEICH	0.87	0.23	0.33	1.64	0.57	0.36	0.67	0.37	0.3	1.42 RES

