

ROAD CONTRACT NO. **R-6728**

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	705(2)	1963	7	150

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**STATE OF INDIANA  
INDIANA STATE HIGHWAY COMMISSION**

**PLAN AND PROFILE OF PROPOSED  
STATE HIGHWAY  
S-PROJECT NO. 705 (2) P.E.  
R/W  
CONSTR**

BEGINNING AT A POINT AT THE SOUTH EDGE OF US 40 APPROX 512.1 FEET NORTH OF THE SOUTH SECTION LINE OF SECTION 17, T-12-N, R-8-W AND 32.6 FEET EAST OF THE WEST SECTION LINE OF SAID SECTION AND EXTENDING IN A SOUTHERLY DIRECTION FOR A DISTANCE OF 1.418 MILES TO A POINT ON S.R. 46 241.0 FEET SOUTH OF THE NORTH SECTION LINE OF SECTION 5, T-11-N, R-8-W, ALL IN VIGO COUNTY.

GROSS LENGTH: MI 3.146  
NET LENGTH: MI 3.146  
SCALES:  
PLAN (LONG: 1"=50' PROFILE (HORIZ: 1"=50' VERT: 1"=10')  
MAX. GRADE 2.809%

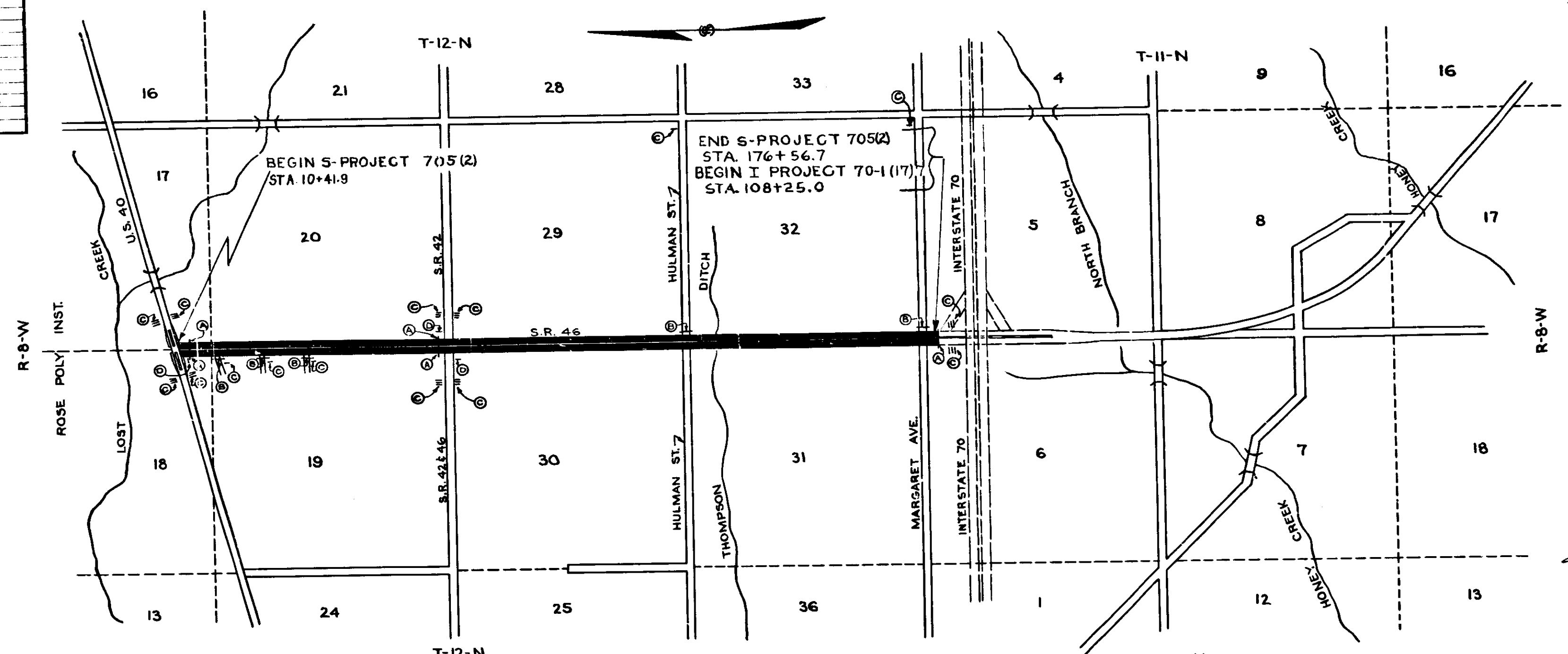
**DESIGN DATA**

A.D.T. (1962)	6175	V.P.D.
A.D.T. (1982) PROJECTED	14250	V.P.D.
D.H.V.	1530	V.P.D.
DIRECTIONAL DISTRIBUTION	58	%
TRUCKS	12	%
DESIGN SPEED	70	M.P.H.
ACCESS CONTROL	PARTIAL	

**LEGEND**  
 (Symbol) Barricade Type "A"  
 (Symbol) Barricade Type "B"  
 (Symbol) Typical Sign Standard  
 (Symbol) Construction Identification Signs

**REVISIONS**

SHEET NO.	DATE	REVISED
101-28	8-5-63	R/W
101-29	10-1-63	Topo
101-30	10-1-63	Topo
101-31	10-1-63	Topo
101-32	10-1-63	Topo
101-33	10-1-63	Topo
101-34	10-1-63	Topo
101-35	10-1-63	Topo
101-36	10-1-63	Topo
101-37	10-1-63	Topo
101-38	10-1-63	Topo
101-39	10-1-63	Topo
101-40	10-1-63	Topo
101-41	10-1-63	Topo
101-42	10-1-63	Topo
101-43	10-1-63	Topo
101-44	10-1-63	Topo
101-45	10-1-63	Topo
101-46	10-1-63	Topo
101-47	10-1-63	Topo
101-48	10-1-63	Topo
101-49	10-1-63	Topo
101-50	10-1-63	Topo



**VIGO CO.**  
SCALE: 3"=1 MILE

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

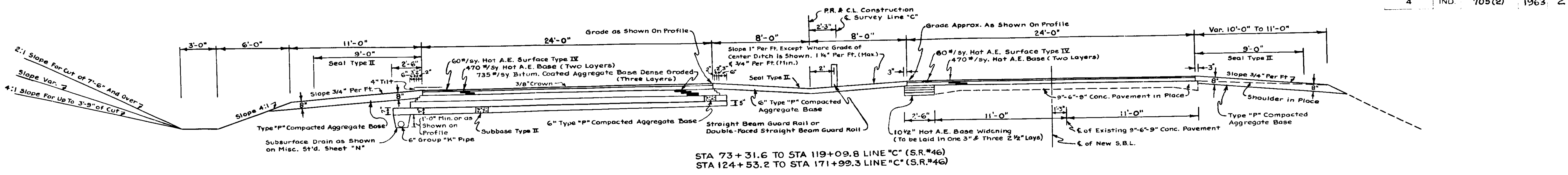
RECOMMENDED FOR APPROVAL **8-7-63**  
*W.P. Behrens*  
ENGINEER OF ROAD DESIGN, INDIANA STATE HIGHWAY COMMISSION

APPROVED **8-7-63**  
*J.F. Callender*  
CHIEF ENGINEER, INDIANA STATE HIGHWAY COMMISSION

BUREAU OF PUBLIC ROADS  
DEPARTMENT OF COMMERCE

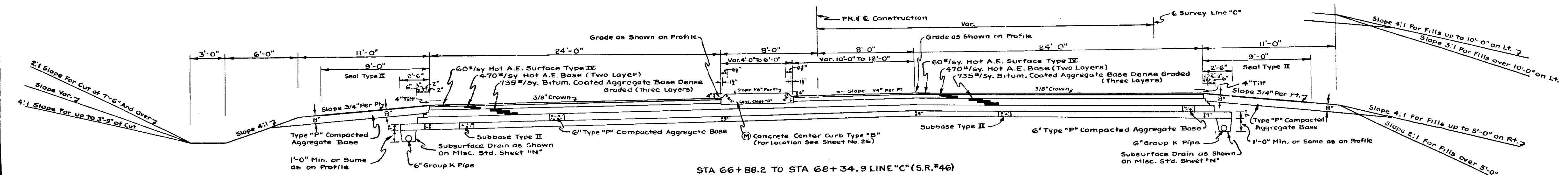
APPROVED \_\_\_\_\_  
DIVISION ENGINEER DATE \_\_\_\_\_

ROAD FILE # \_\_\_\_\_

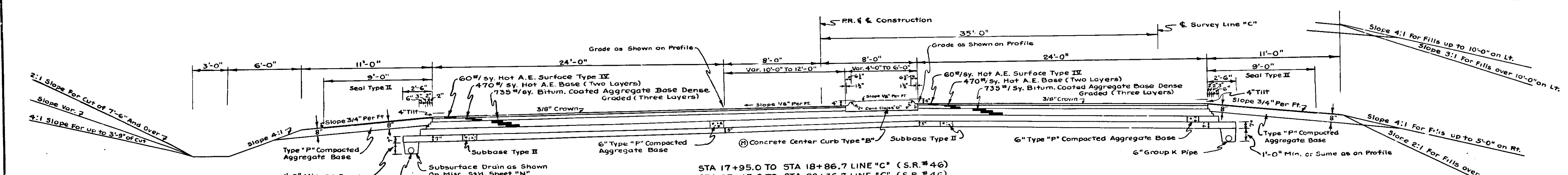


STA 73+31.6 TO STA 119+09.8 LINE "C" (S.R.#46)  
 STA 124+53.2 TO STA 171+99.3 LINE "C" (S.R.#46)

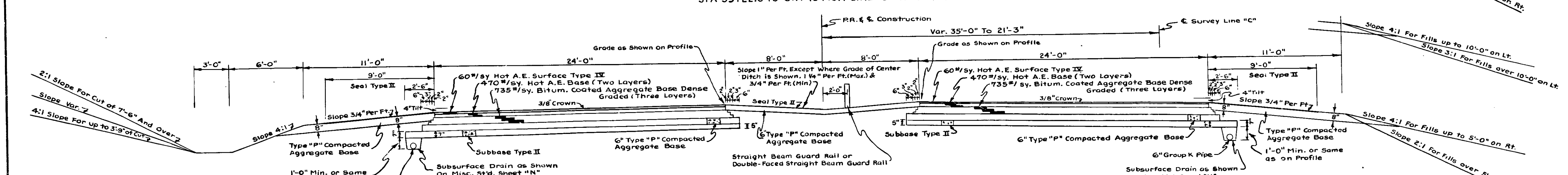
Scale 1/4" = 1'-0"  
 Note: Variable Median and Widening From:  
 Sta. 73+31.6 To Sta 75+39.9 (See Sheet No. 26)  
 Sta. 117+01.5 To Sta 119+09.8 (See Sheet No. 28)  
 Sta. 124+53.2 To Sta 126+61.5 (See Sheet No. 20)  
 Sta. 169+91.0 To Sta 171+99.3 (See Sheet No. 29)



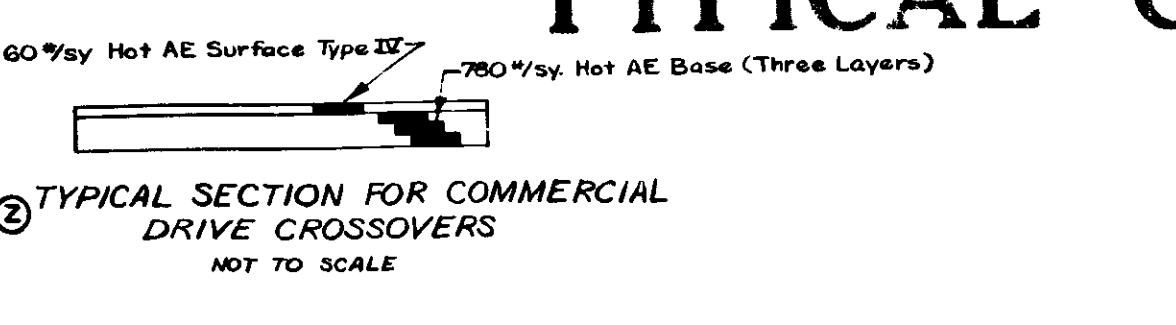
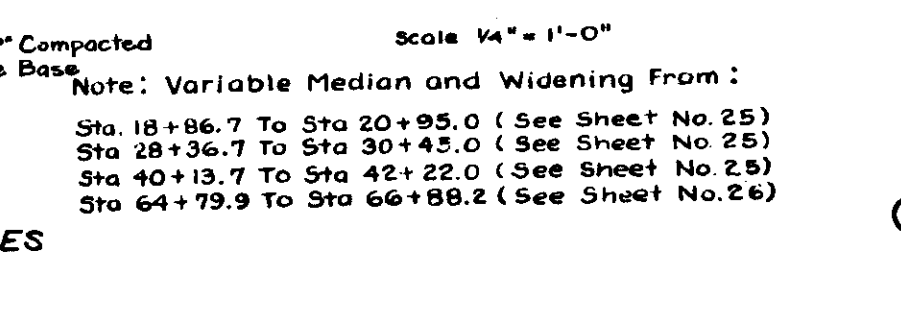
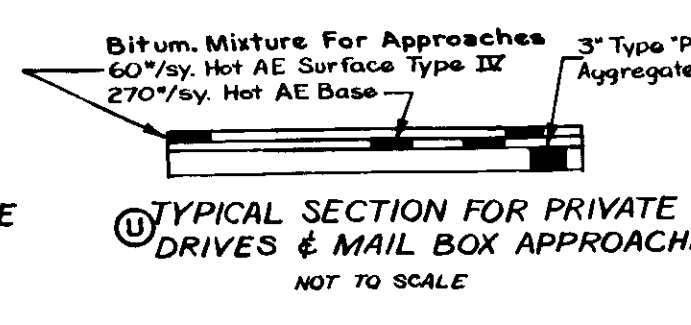
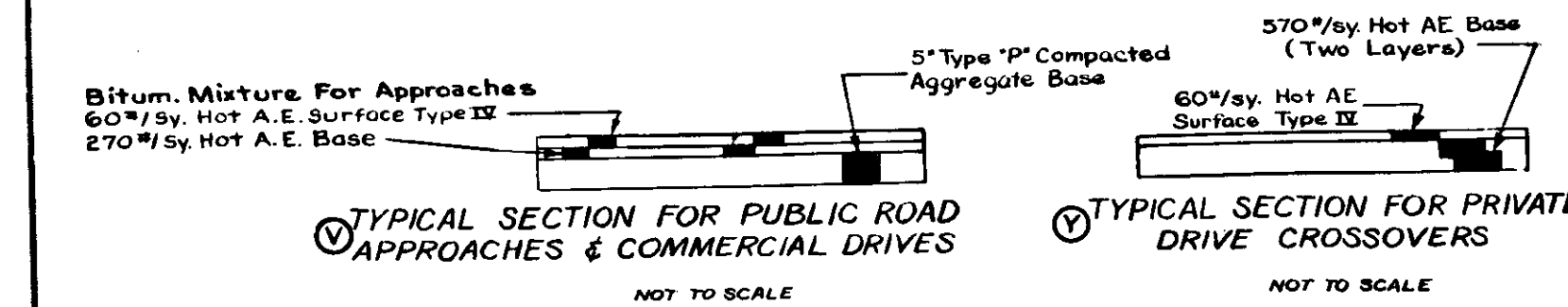
STA 66+88.2 TO STA 68+34.9 LINE "C" (S.R.#46)



STA 17+95.0 TO STA 18+86.7 LINE "C" (S.R.#46)  
 STA 27+45.0 TO STA 28+36.7 LINE "C" (S.R.#46)  
 STA 39+22.0 TO STA 40+13.7 LINE "C" (S.R.#46)



STA 10+41.9 TO STA 17+95.0 LINE "C" (S.R.#46)  
 STA 18+86.7 TO STA 27+45.0 LINE "C" (S.R.#46)  
 STA 28+36.7 TO STA 39+22.0 LINE "C" (S.R.#46)  
 STA 40+13.7 TO STA 66+88.2 LINE "C" (S.R.#46)

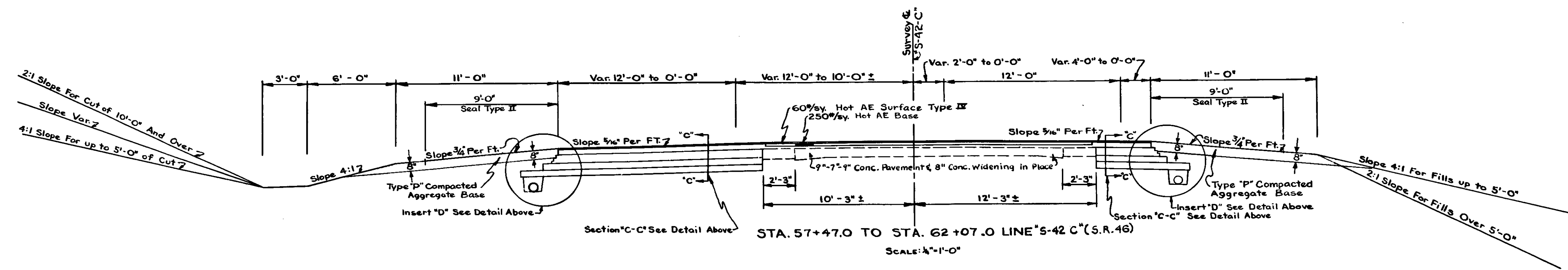
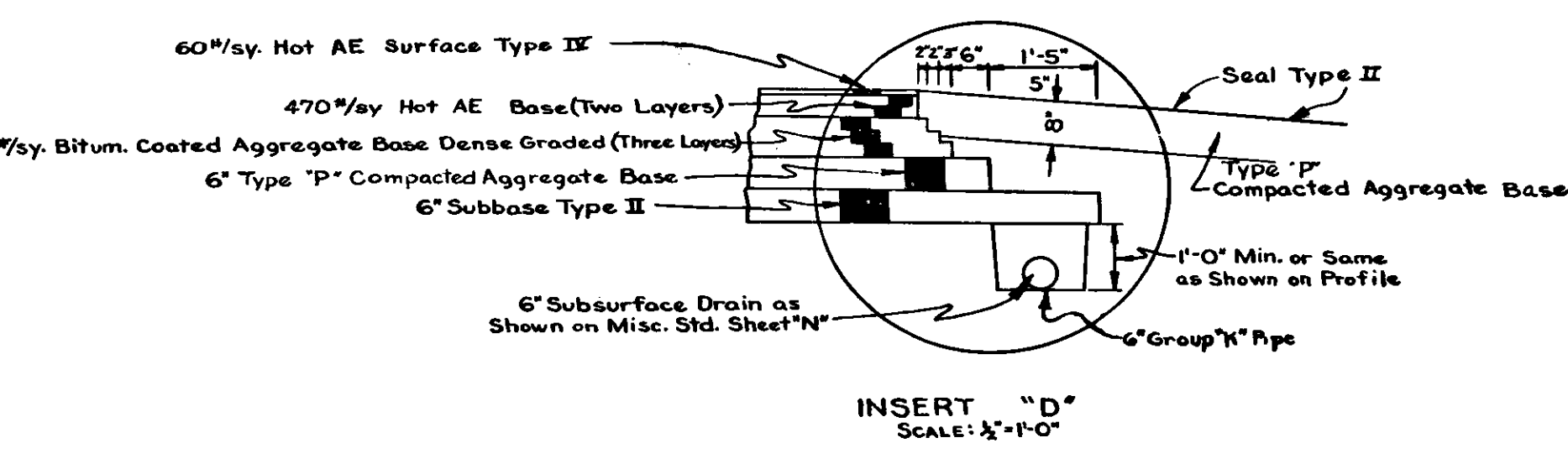
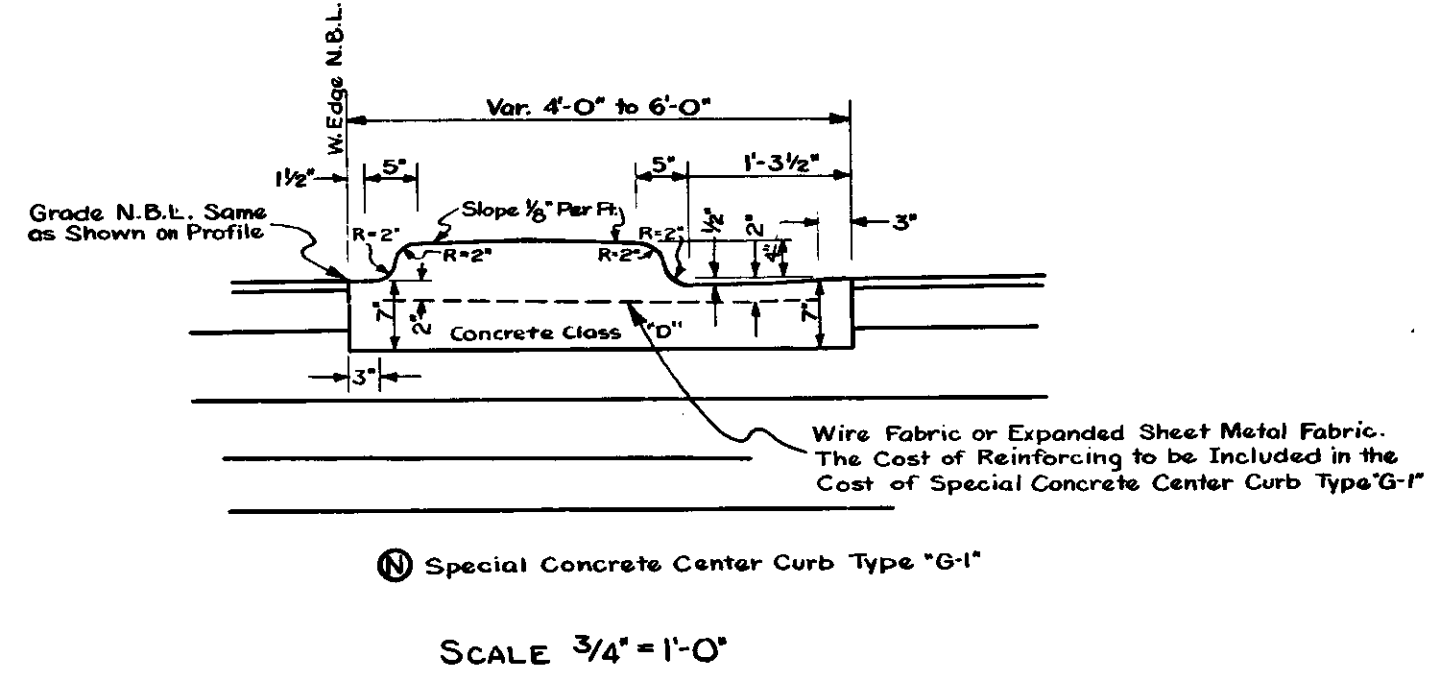
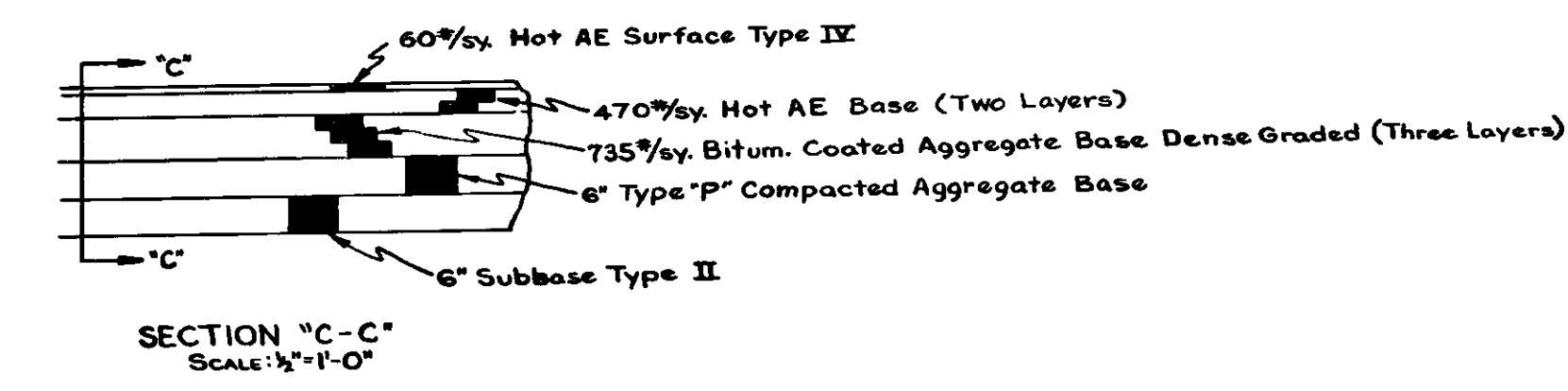
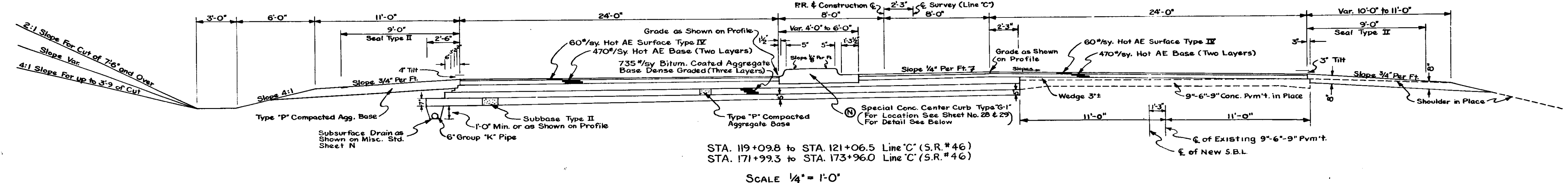
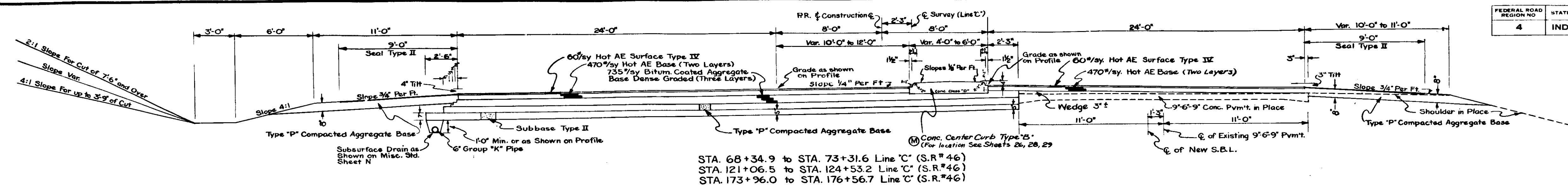


# TYPICAL CROSS SECTIONS

SCALE: AS SHOWN

RECOMMENDED FOR APPROVAL: 8-7-63  
 W.A. Burkhardt

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705 (2)	1963	3	160



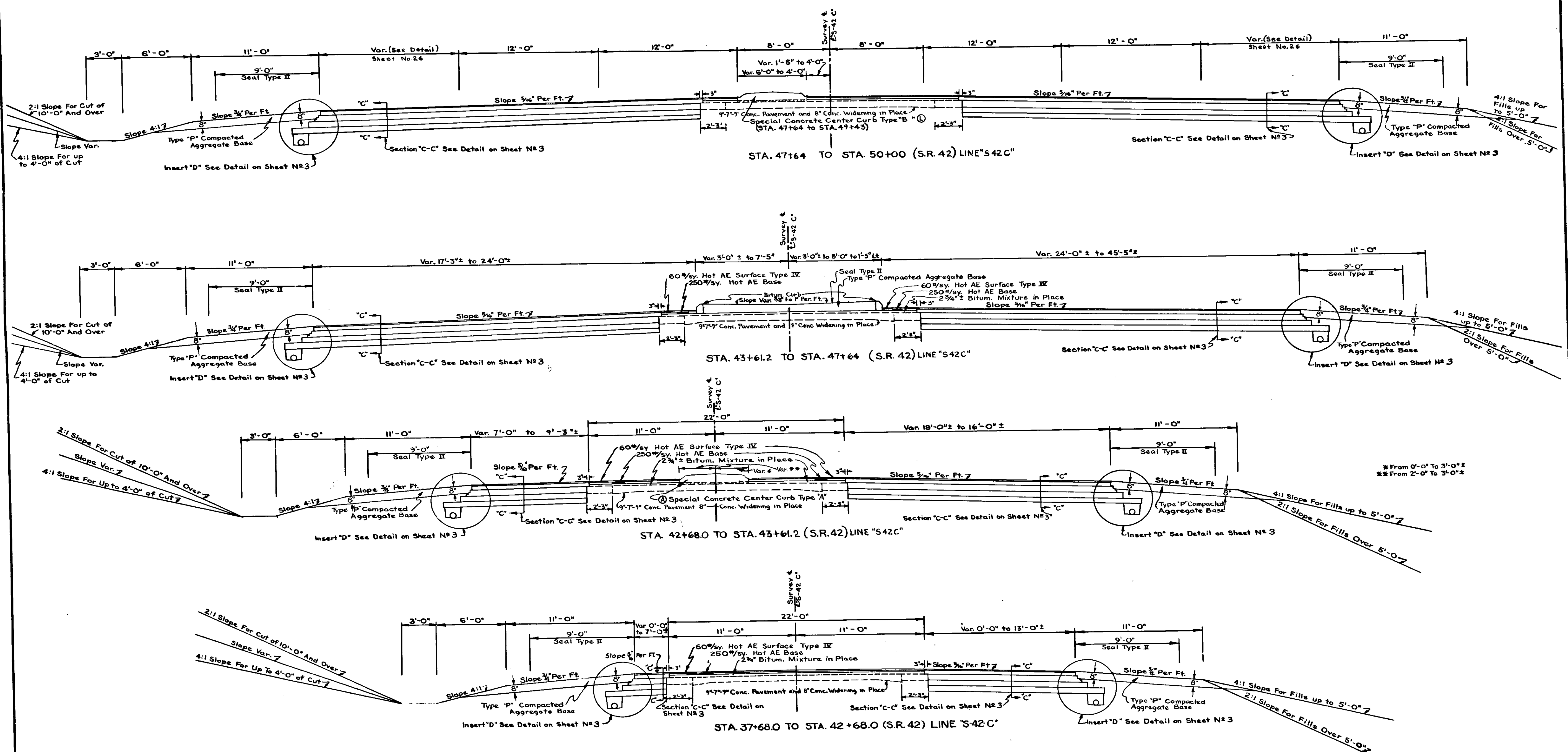
# TYPICAL CROSS SECTIONS

SCALE: AS SHOWN

RECOMMENDED FOR APPROVAL 8-7-63

W. H. Behrens

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705 (2)	1963	4	150



# TYPICAL CROSS SECTIONS

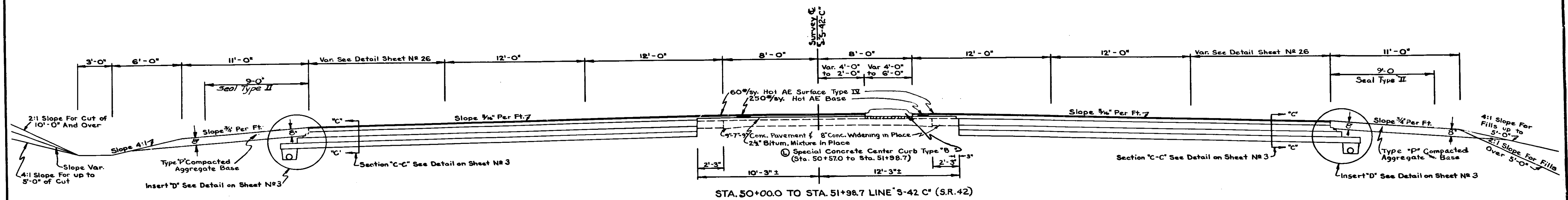
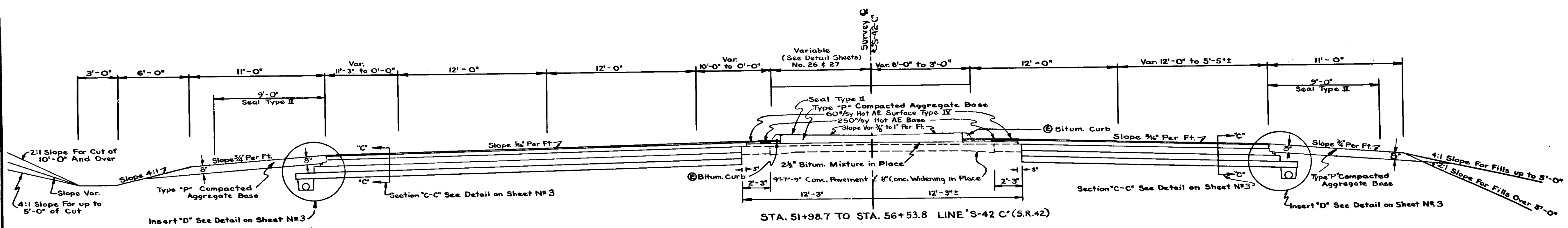
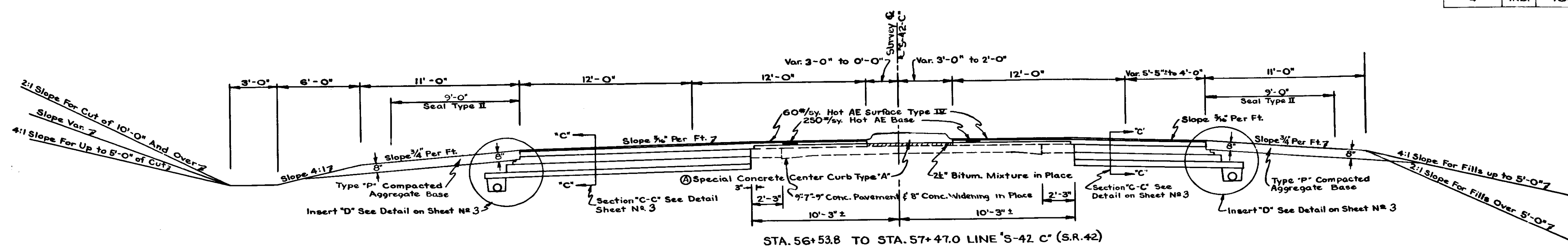
SCALE: 1" = 4'-0"

RECOMMENDED FOR APPROVAL 8-7-63

W.A. Roberts

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
705 (2)	S 42C	4	150

FEDERAL ROAD REGION NO	STATE	PROJECT NO	FISCAL YEAR	SHEET NO	TOTAL SHEETS
4	IND.	705 (A)	1963	5	150



# TYPICAL CROSS SECTIONS

SCALE: 1" = 4'-0"

RECOMMENDED FOR APPROVAL 8-7-63

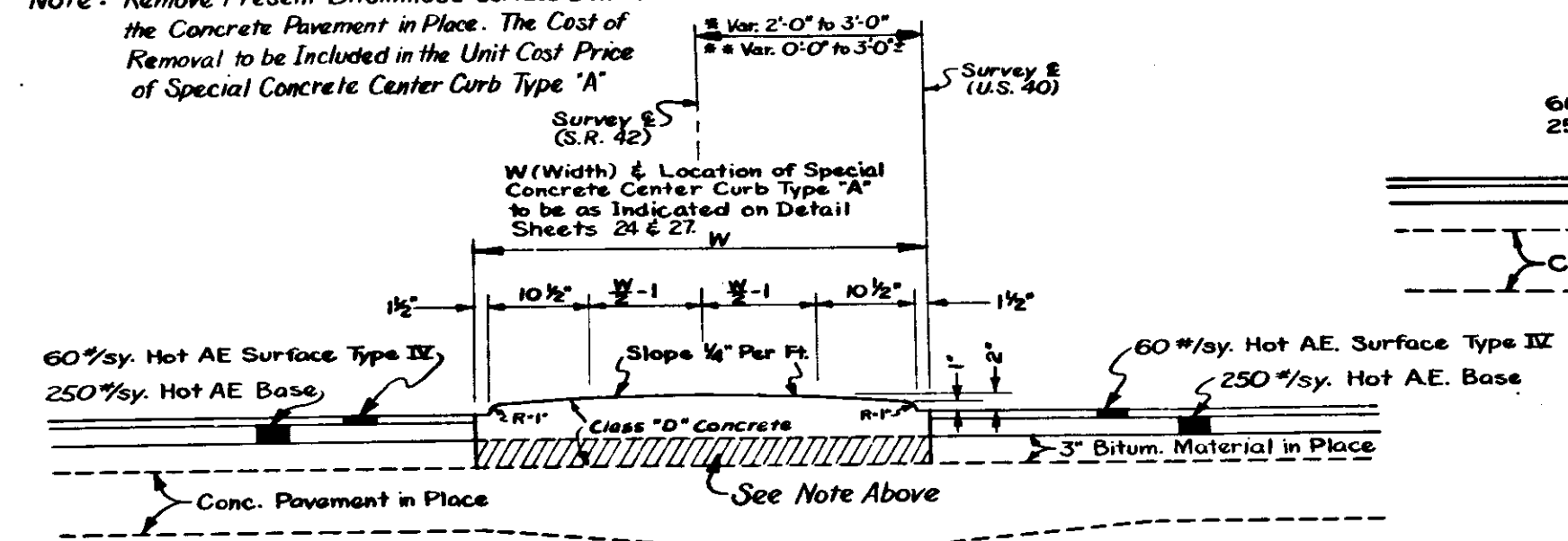
W.A. Behrens

PROJECT NO	LINE	SHEET	TOTAL SHEETS	FILE
705 (A)	S-42C	5	150	

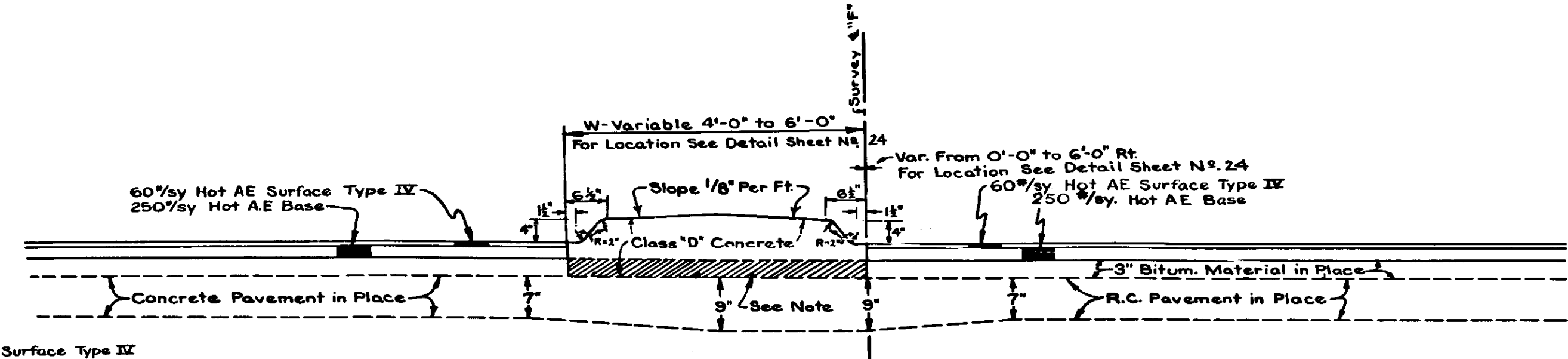
R 2202 ST-705A  
 R 2202 ST-705A  
 R 2202 ST-705A  
 R 2202 ST-705A  
 R 2202 ST-705A  
 R 2202 ST-705A

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND	705 (2)	1963	6	150

Note: Remove Present Bituminous Surface Down to the Concrete Pavement in Place. The Cost of Removal to be Included in the Unit Cost Price of Special Concrete Center Curb Type "A"

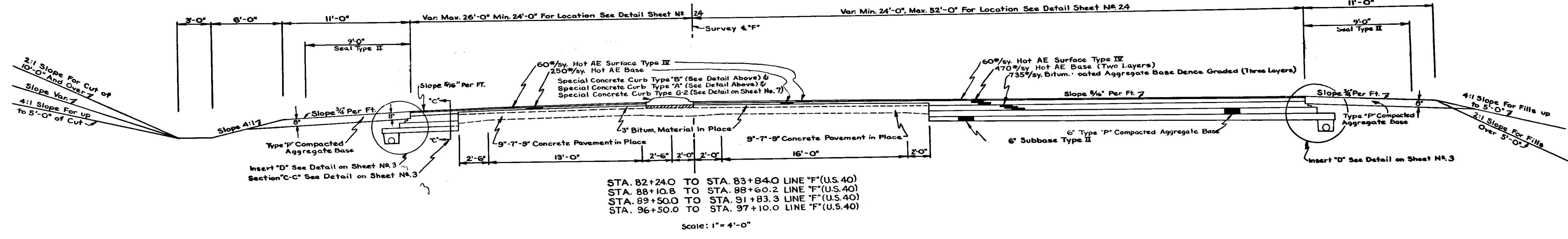


**(A) DETAIL SPECIAL CONCRETE CENTER CURB TYPE "A"**  
 STA. 82+24.0 TO STA. 83+84.0 LINE "F" (U.S. 40)  
 STA. 96+50.0 TO STA. 97+10.0 LINE "F" (U.S. 40)  
 \*\* STA. 42+63.0 TO STA. 43+61.2 LINE "S-42-C" (S.R. 42)  
 \* STA. 56+53.8 TO STA. 57+47.0 LINE "S-42-C" (S.R. 42)

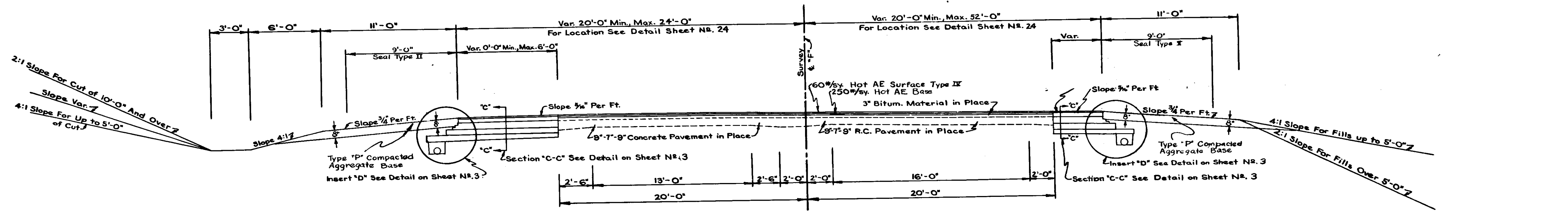


**(B) DETAIL SPECIAL CONCRETE CENTER CURB TYPE "B"**

NOTE: Remove Present Bituminous Surface Down to the Concrete Pavement in Place. The Cost of Removal to be Included in the Unit Cost Price of Special Concrete Center Curb Type "B"



STA. 82+24.0 TO STA. 83+84.0 LINE "F" (U.S. 40)  
 STA. 88+10.8 TO STA. 88+60.2 LINE "F" (U.S. 40)  
 STA. 89+50.0 TO STA. 91+83.3 LINE "F" (U.S. 40)  
 STA. 96+50.0 TO STA. 97+10.0 LINE "F" (U.S. 40)



STA. 79+74.0 TO STA. 82+24.0 LINE "F" (U.S. 40)  
 STA. 88+60.2 TO STA. 89+50.0 LINE "F" (U.S. 40)  
 STA. 97+10.0 TO STA. 99+50.0 LINE "F" (U.S. 40)

# TYPICAL CROSS SECTIONS

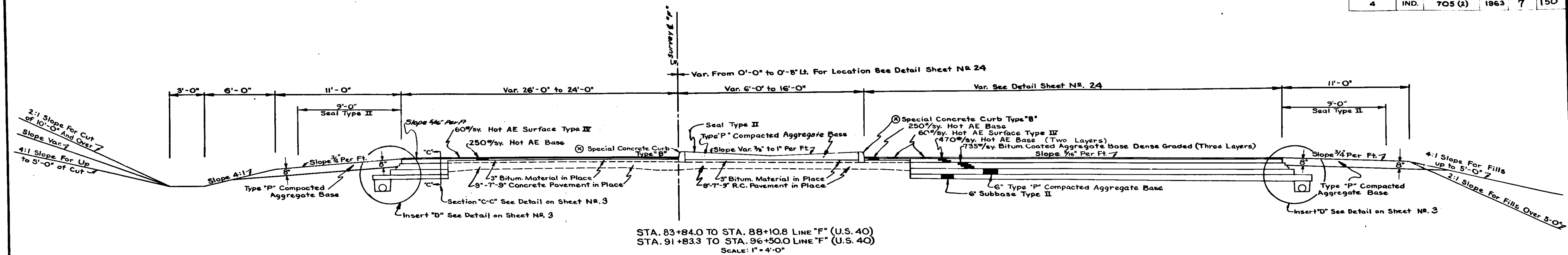
SCALE: As Shown

RECOMMENDED FOR APPROVAL 8-7-63

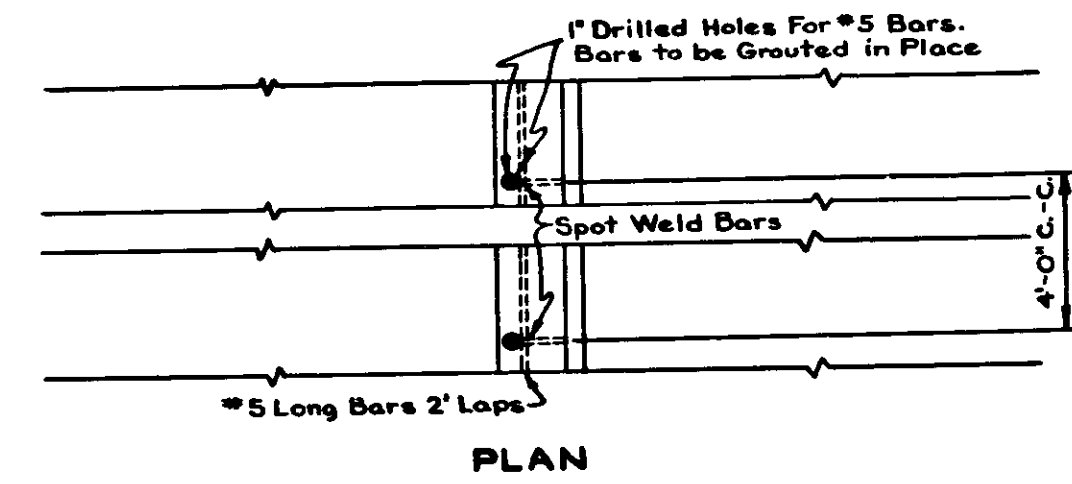
*W. J. Bakens*  
 ENGINEER

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
705 (2)	F	6	150

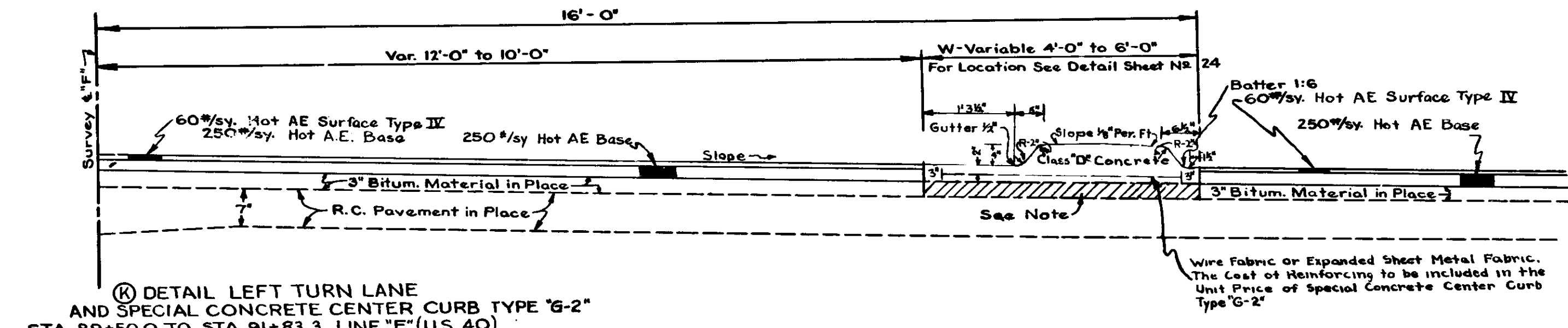
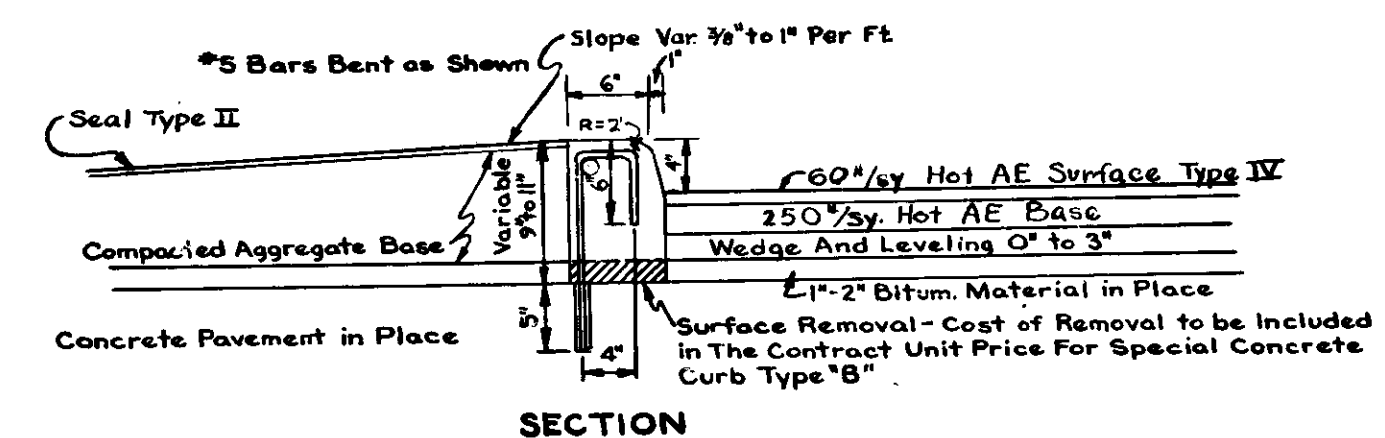
FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705 (2)	1963	7	150



STA. 83+84.0 TO STA. 88+10.8 LINE "F" (U.S. 40)  
 STA. 91+83.3 TO STA. 96+50.0 LINE "F" (U.S. 40)  
 SCALE: 1" = 4'-0"



⊗ SPECIAL CONCRETE CURB TYPE "B"  
 SCALE: 1" = 1'-0"



⊗ DETAIL LEFT TURN LANE  
 AND SPECIAL CONCRETE CENTER CURB TYPE "G-2"  
 STA. 89+50.0 TO STA. 91+83.3 LINE "F" (U.S. 40)  
 SCALE: 3/4" = 1'-0"

NOTE: Remove Present Bituminous Surface Down to the Concrete Pavement in Place. The Cost of Removal to be included in the Unit Price of Special Concrete Center Type "G-2".  
 Slope End of Special Concrete Center Curb Type "G-2" as shown at Section "D-D" on Misc. 5th. Sheet U For Concrete Center Curb Type "B".

# TYPICAL CROSS SECTIONS

SCALE: As Shown

RECOMMENDED FOR APPROVAL 8-7-63

*W. P. Richards*  
 ENGINEER OF ROAD DESIGN

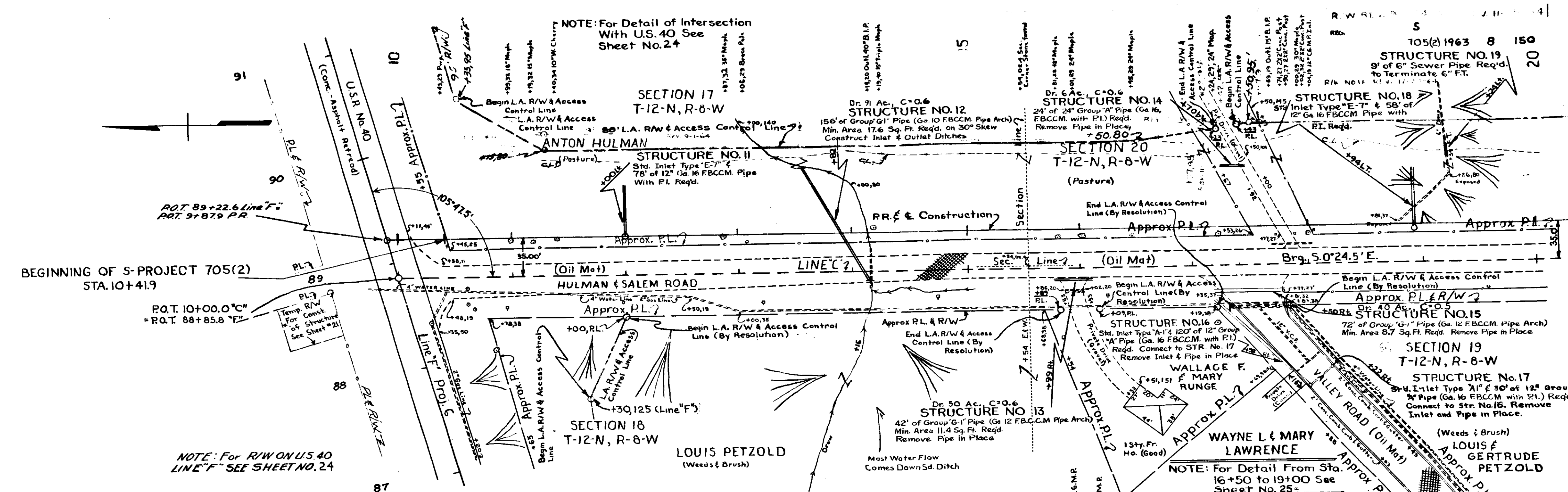
PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
705 (2)	F	7	150	

**PUBLIC UTILITIES**  
**POWER LINES**  
 Public Service Company of Indiana

**TELEGRAPH LINES**  
 Bell Telephone Company of Indiana  
 General Telephone Company

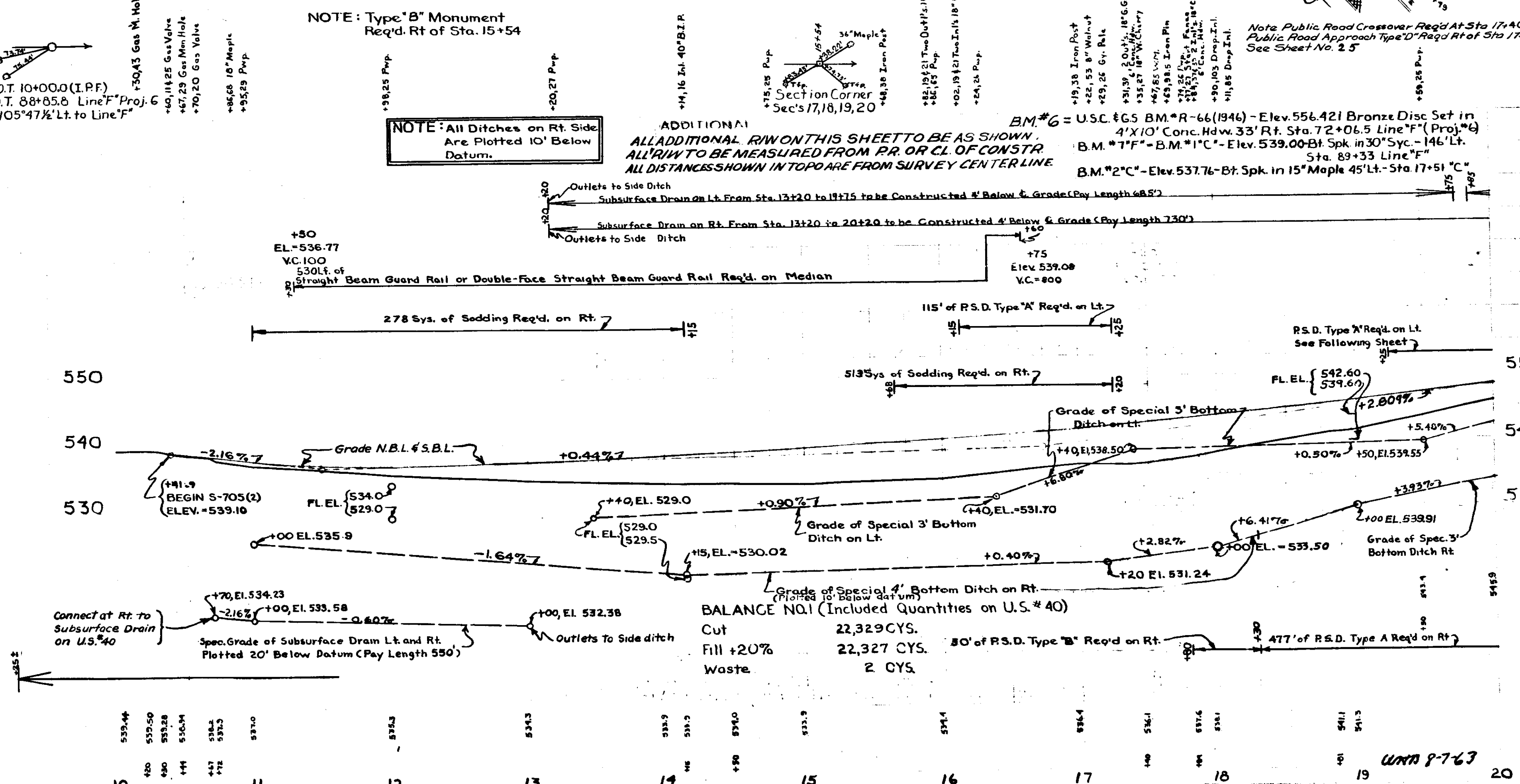
**GAS LINES**  
 Terre Haute Gas Corporation  
 Office: 632 Cherry St, Terre Haute, Indiana

**WATER LINES**  
 Terre Haute Water Works Corporation



**TYPICAL CROSS SECTIONS AS SHOWN ON SHEET N° 2-7 TO BE USED ON THIS PROJECT.**  
 State Highway Commission of Indiana Standards Specification, Dated 1963 to be Used With These Plans.  
 Standards Under Dates as Listed in Index on Title Sheet to be Used on This Project.  
 Grade as Shown on Profile Represents Top of Finished Surface as Indicated on Typical Cross Sections.  
 All Ditches of 1% And Over Shall be Sodded Except Where Ditch is in Rock Cut or Where Paved Side Ditch is to be Constructed.  
 Cut And Fill Slopes Shall be Plain or Mulched Seeded Except Where Sodding is Specified.

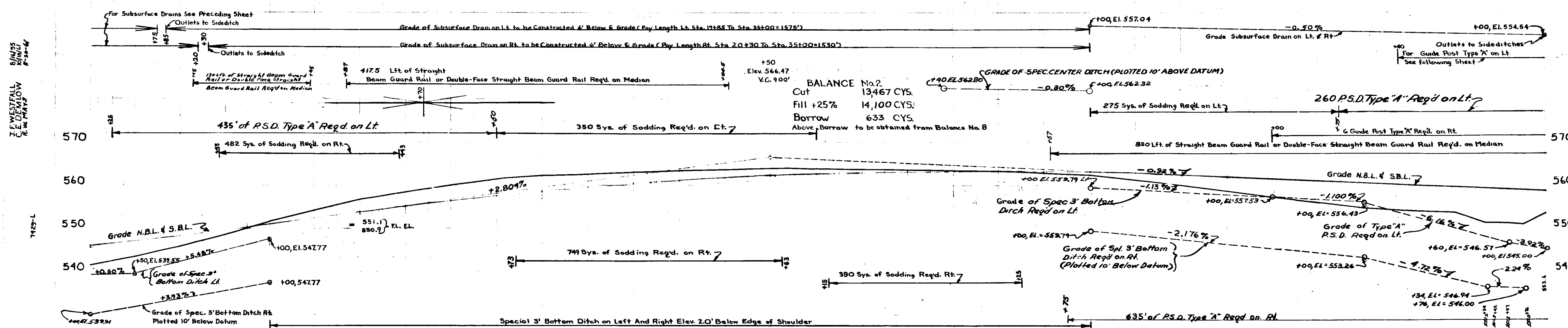
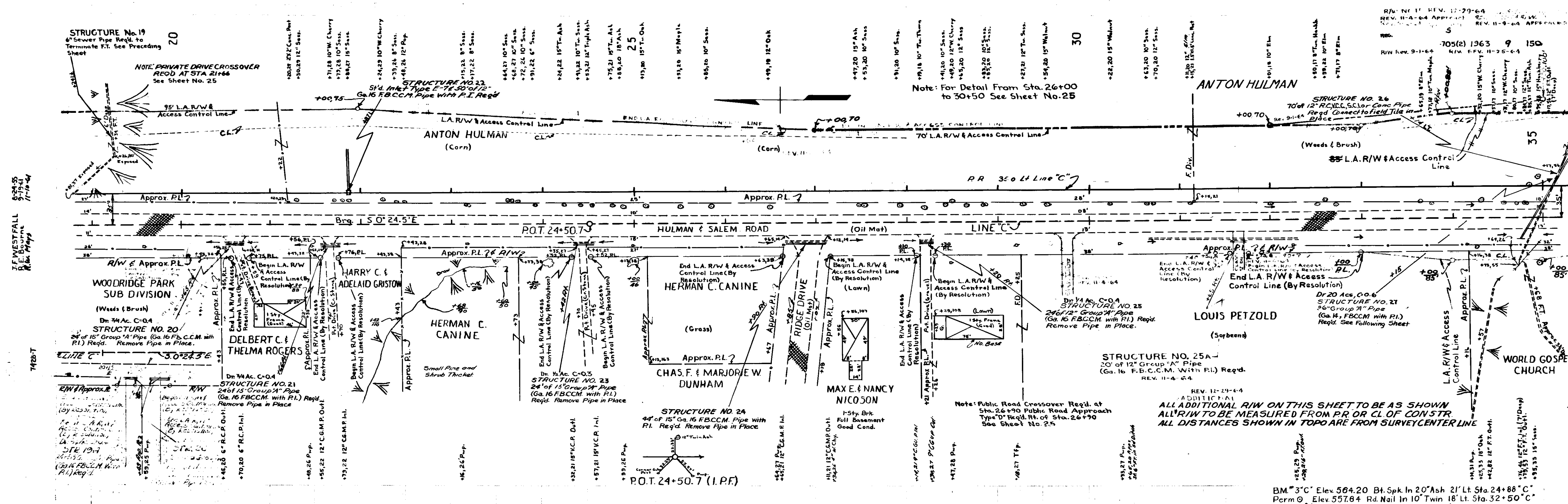
Sodding Shall be Placed Along Paved Side Ditch as Shown on Miscellaneous Standard Sheet "E".  
 Excavation Quantities as Shown on Plan And Profile Sheets Include Estimated Excavation For Private And Public Approaches. (See Table on Sheet N° 30)  
 Curves Over 9°45' Shall be Superelevated According to The (Standards of January, 1961)  
 Quantities For Roadways Are Based on Using Pipe Culvert Headwalls For Retaining 2:1 or 3:1 Slopes & Private Entrance Headwalls For Retaining 4:1 Slopes.  
 For Kinds of Pipe Permitted For Each Size And Classification as Shown in Structure Notes, See Miscellaneous Standard Sheet "P" & "P-1".  
 County Roads to be Turned Back to County Beyond R/W Markers as Shown on Plans.



UNR 9-7-63

705(2) "C" 8





Station	Elevation
19	540.50
20	541.77
21	542.77
22	543.77
23	544.77
24	545.77
25	546.77
26	547.77
27	548.77
28	549.77
29	550.77
30	551.77
31	552.77
32	553.77
33	554.77
34	555.77
35	556.77

WESTFALL  
SIGNAL  
11-16-64

WESTFALL  
SIGNAL  
11-16-64

WESTFALL  
SIGNAL  
11-16-64

Note: For Detail From Sta. 26+00 to 30+50 See Sheet No. 25

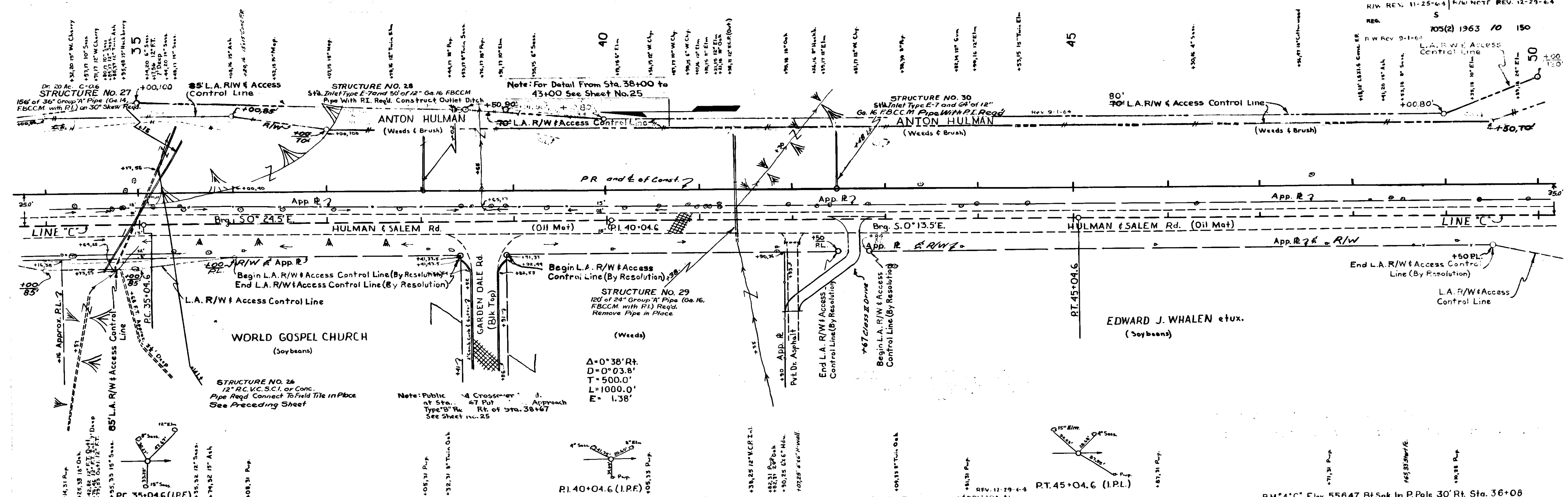
ALL ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN  
ALL R/W TO BE MEASURED FROM P.R. OR C.L. OF CONSTR.  
ALL DISTANCES SHOWN IN TOP ARE FROM SURVEY CENTER LINE

BM 3'C Elev. 564.20 Bt Spk. In 20' Ash 21' Lt. Sta. 24+88 C  
Perm. Elev. 557.84 Rd Nail In 10' Twin 18' Lt. Sta. 32+50 C  
BM 4'C Elev. 556.47 Bt Spk. in Rip 30' Rt. Sta. 36+08

UNIT P-1-23

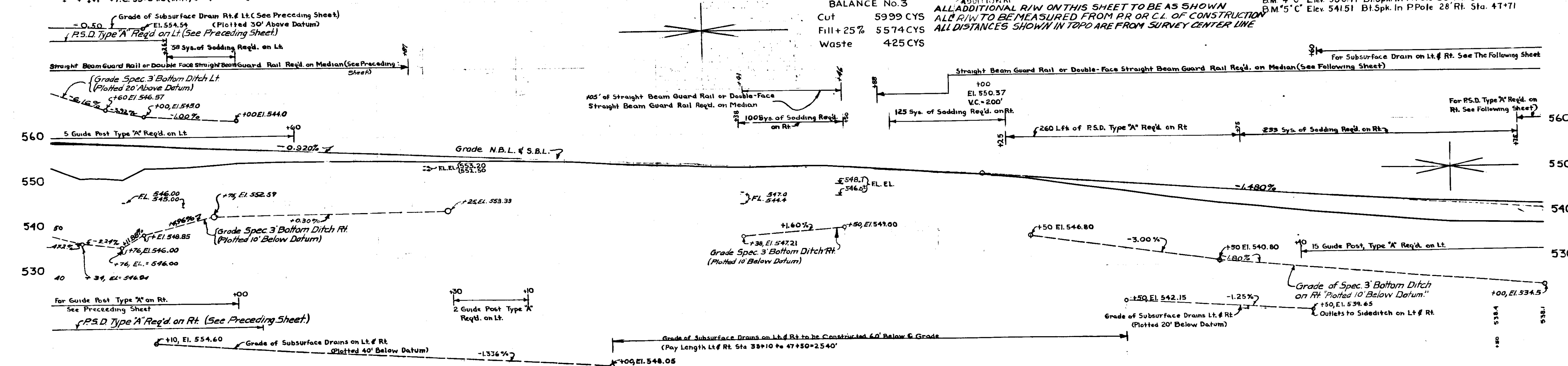
105(2) "C" 9

R/W REV. 11-25-64 R/W NOTE REV. 12-29-64  
 RES. 705(2) 1963 10 150  
 L.A. R/W Access Control Line



**BALANCE NO. 3**  
 Cut 5999 CYS  
 Fill + 25% 5574 CYS  
 Waste 425 CYS

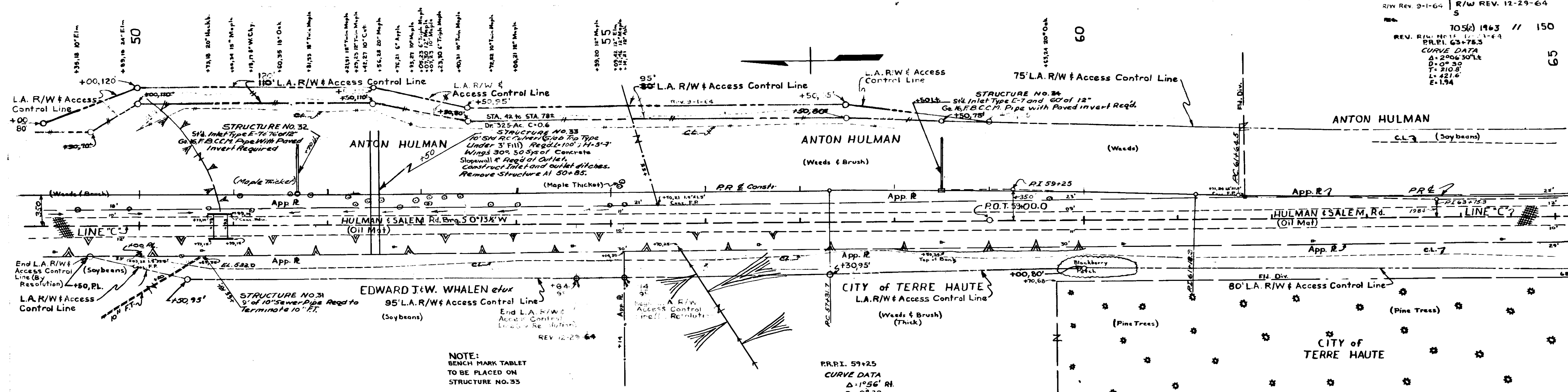
**ADDITIONAL**  
 ALL ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN  
 ALL R/W TO BE MEASURED FROM RR OR CL OF CONSTRUCTION  
 ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LINE



34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50					
553.0	551.1	551.3	551.2	551.0	551.1	551.6	552.4	552.4	552.7	552.7	551.9	550.3	549.4	547.9	546.4	545.0	543.7	542.4	541.5	540.6	538.8

UNIT 8-7-63  
 705(2) "C" 10

R/W Rev. 9-1-64 | R/W Rev. 12-29-64  
 705(a) 1463 // 150  
 REV. R/W 11-11-64  
 P.R.E.I. 63-78.3  
 CURVE DATA  
 D = 2006.50'L  
 T = 210.8'  
 L = 421.6'  
 E = 154'



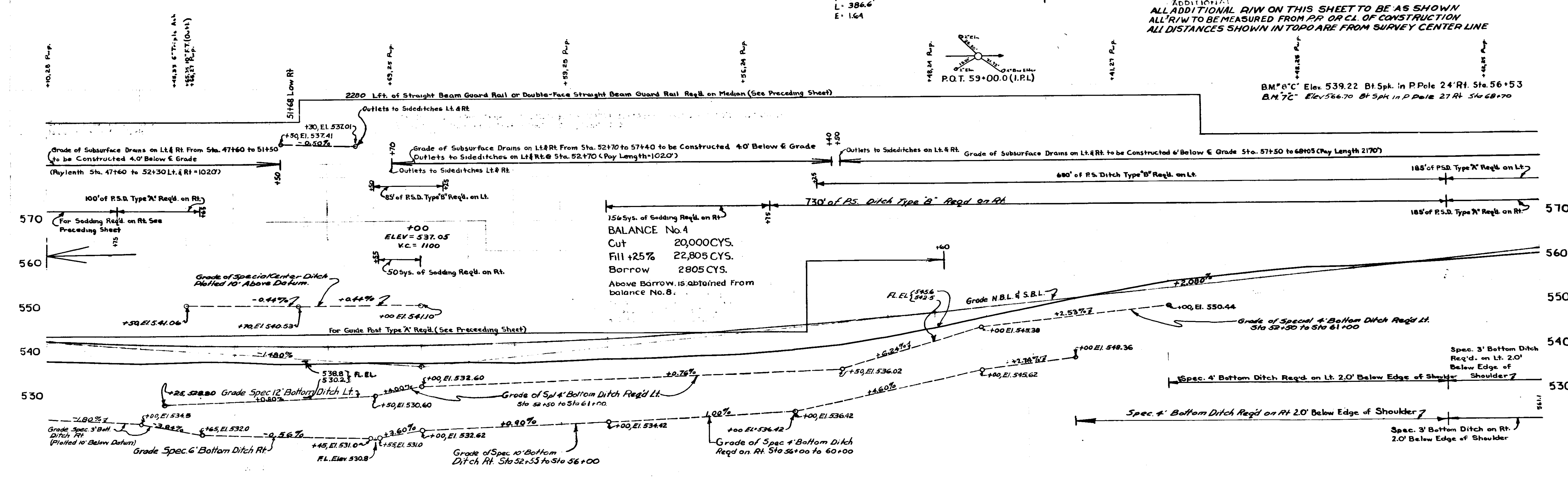
NOTE:  
 BENCH MARK TABLE  
 TO BE PLACED ON  
 STRUCTURE NO. 33

REV. 12-29-64

P.R.E.I. 59+25  
 CURVE DATA  
 Δ = 125.6° RH  
 D = 0930  
 T = 143.3'  
 L = 386.6'  
 E = 164'

REV. 12-29-64  
 ADDITIONAL  
 ALL ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN  
 ALL R/W TO BE MEASURED FROM P.P. OR C.L. OF CONSTRUCTION  
 ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LINE

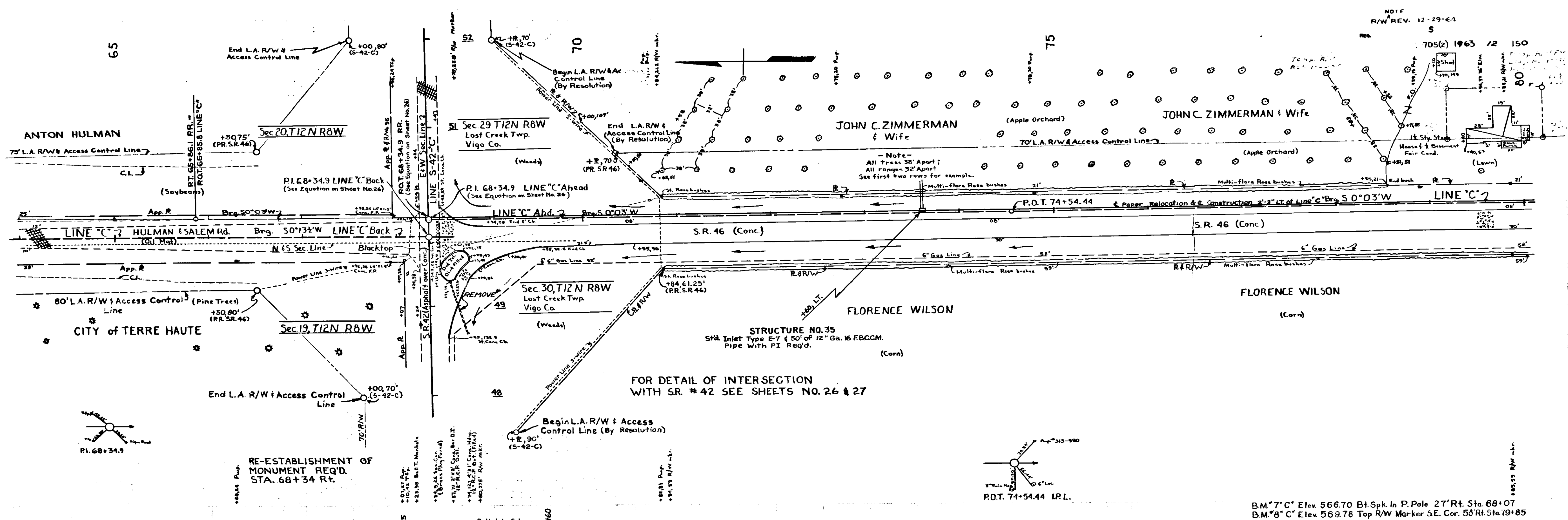
BM "6" C" Elev. 539.22 Bt. Spk. in P. Pole 24' Rt. Sta. 56+53  
 BM "7" C" Elev. 536.70 Bt. Spk. in P. Pole 27' Rt. Sta. 60+70



510.6	510.4	510.1	509.3	508.4	507.2	505.4	503.9	502.8	502.0	501.3	500.0	499.0	498.1	497.1	496.0	495.4	494.5	494.6	494.1	494.1	493.7	493.0	492.4	491.8	491.4	491.1	490.7	490.4	490.1	489.7	489.4	489.3	489.5	489.4	489.7	489.9	489.7	489.9	489.9	
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65																								

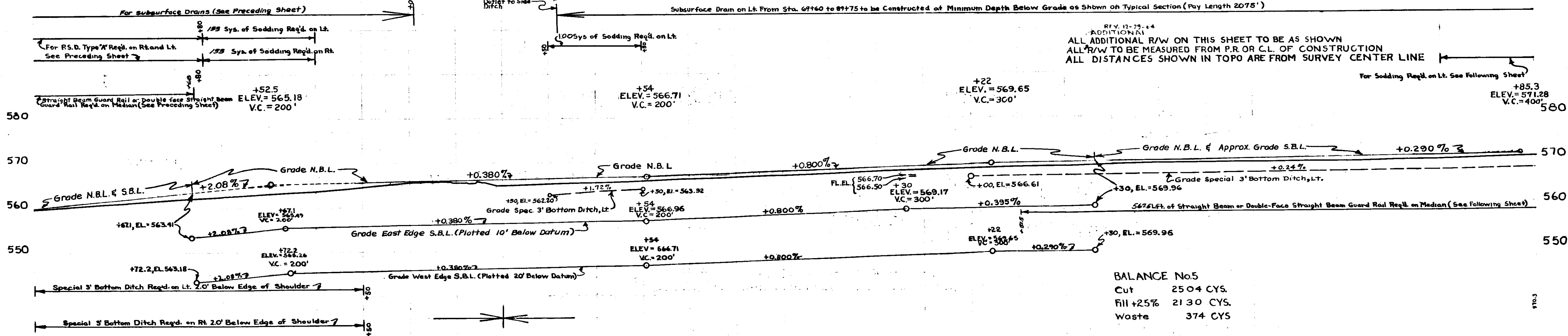
UNTS 8-7-63  
 705(a) "C" //

NOTE  
R/W REV. 12-29-64  
S



FOR DETAIL OF INTERSECTION  
WITH SR. # 42 SEE SHEETS NO. 26 & 27

REV. 12-29-64  
ADDITIONAL  
ALL ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN  
ALL R/W TO BE MEASURED FROM P.R. OR C.L. OF CONSTRUCTION  
ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LINE



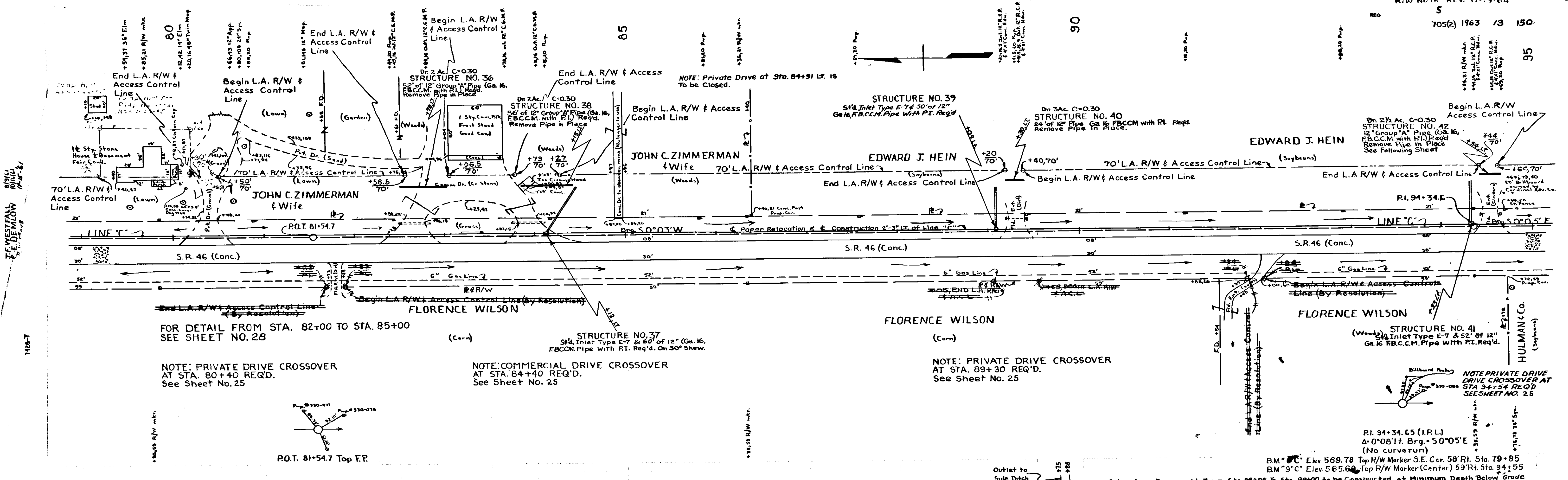
BALANCE No 5  
Cut 2504 CYS.  
Fill +25% 2130 CYS.  
Waste 374 CYS

64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

WATER 7-7-63  
S 705(2) 12C 12

R/W REVISED ON RIGHT BETWEEN STA. 81+69 AND STA. 92+00 AS PER R/W DEPARTMENT (ADDED TO ORIGINAL PLANS 5-26-83.)

R/W NOTE REV. 12-29-64  
705(2) 1963 / 3 150  
95



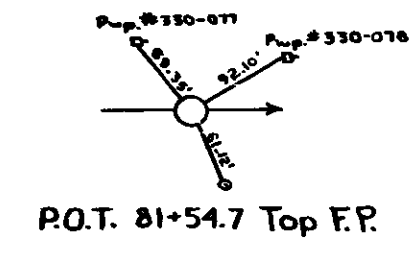
FOR DETAIL FROM STA. 82+00 TO STA. 85+00 SEE SHEET NO. 28

NOTE: PRIVATE DRIVE CROSSOVER AT STA. 80+40 REQ'D. See Sheet No. 25

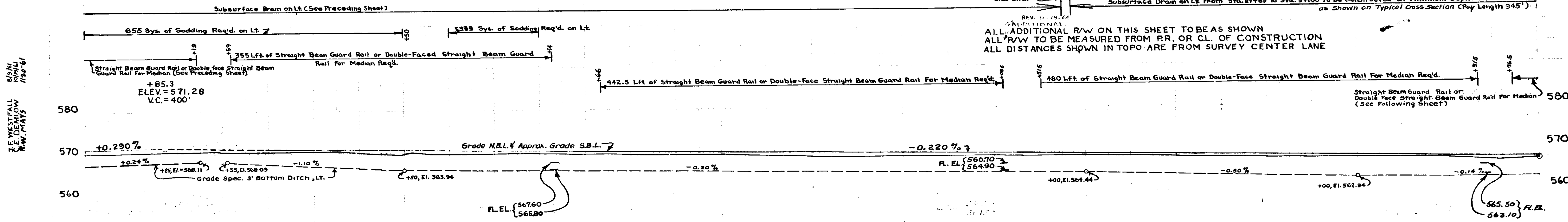
NOTE: COMMERCIAL DRIVE CROSSOVER AT STA. 84+40 REQ'D. See Sheet No. 25

NOTE: PRIVATE DRIVE CROSSOVER AT STA. 89+30 REQ'D. See Sheet No. 25

NOTE: PRIVATE DRIVE CROSSOVER AT STA. 94+54 REQ'D. SEE SHEET NO. 25



ALL ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN ALL R/W TO BE MEASURED FROM P.R. OR C.L. OF CONSTRUCTION ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LANE

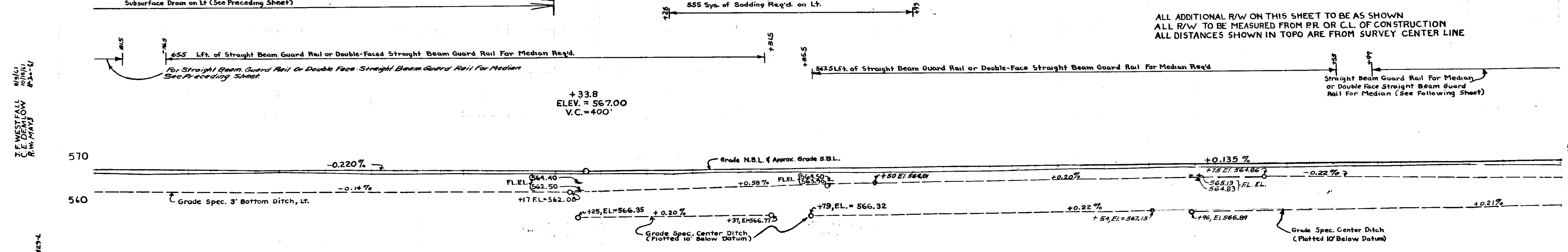
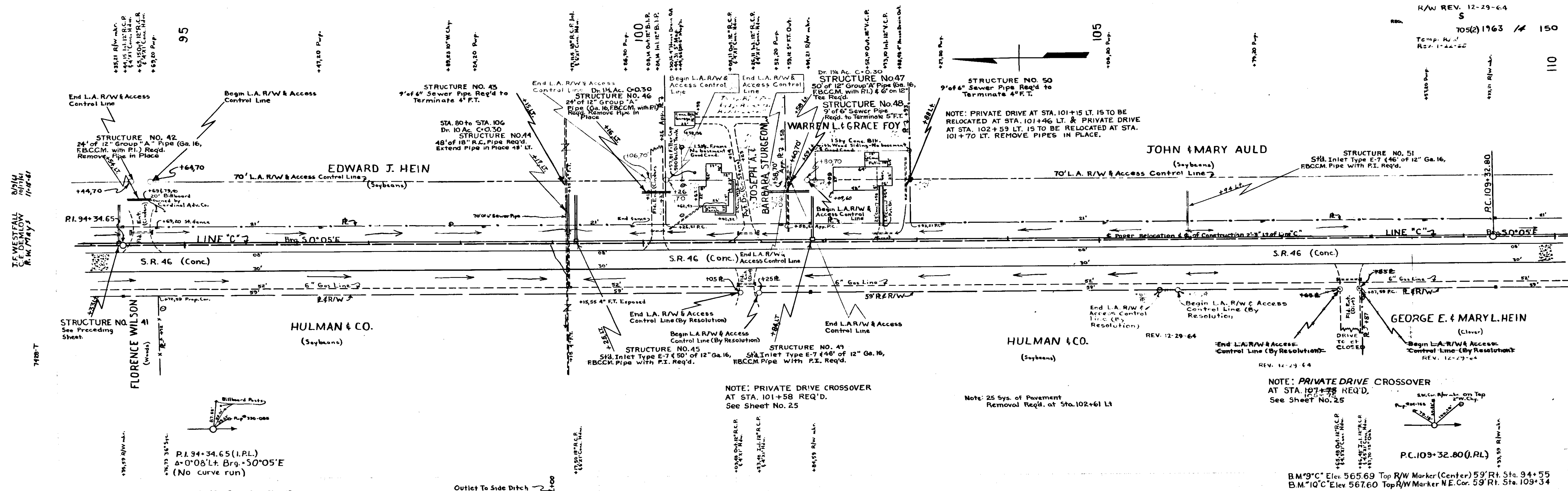


79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95
570.0	570.3	570.1	570.1	570.3	570.0	569.6	569.2	568.7	568.2	568.5	568.6	568.4	568.0	567.8	567.5	567.2
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95		

UNO 8-7-63

705(2) 1963 / 3

R/W REV. 12-29-64  
 S  
 705(2) 1963 / 150  
 Temp. R/W  
 Rev. 1-22-60  
 110

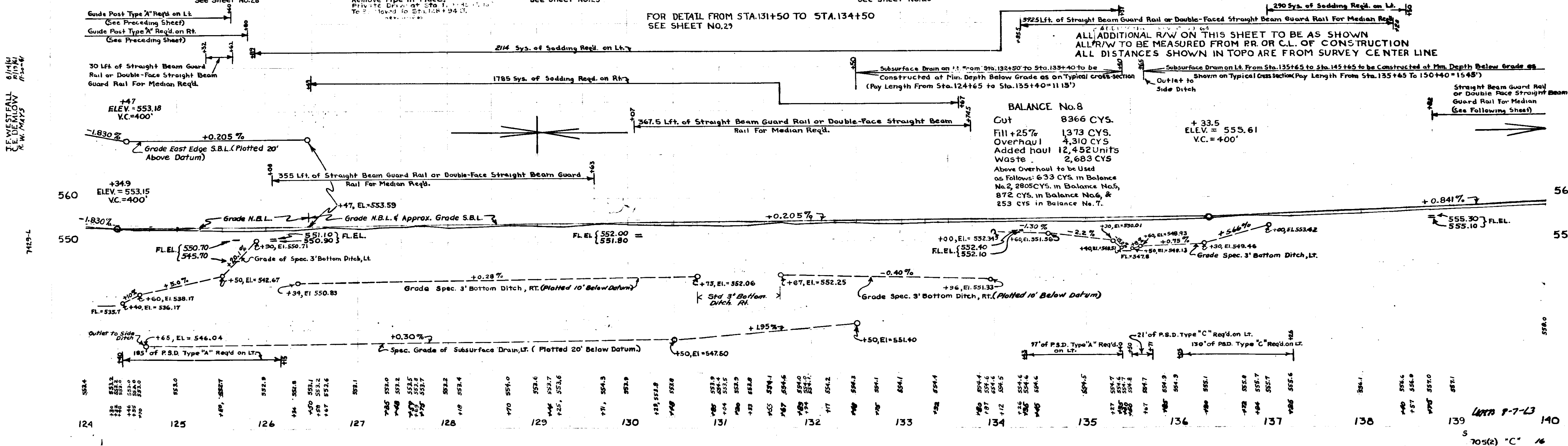
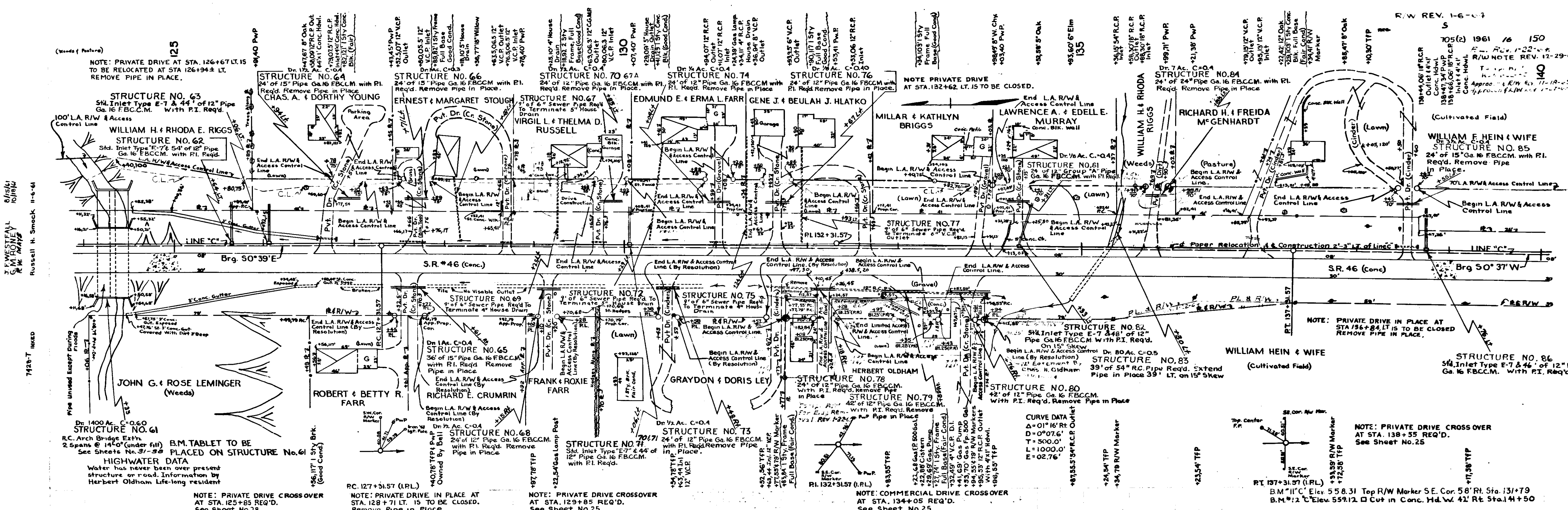


BALANCE No. 6  
 Cut 2074 CYS.  
 Fill +25% 2946 CYS.  
 Borrow 872 CYS.  
 Above Borrow to be Obtained from Balance No. 8.

94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110
567.1	567.0	567.0	567.1	566.8	566.5	566.3	566.1	566.1	566.1	566.1	567.0	567.1	567.0	567.0	567.3	567.7

UND P-7-63  
 S  
 705(2) "C" 14





705(a) "C" 16

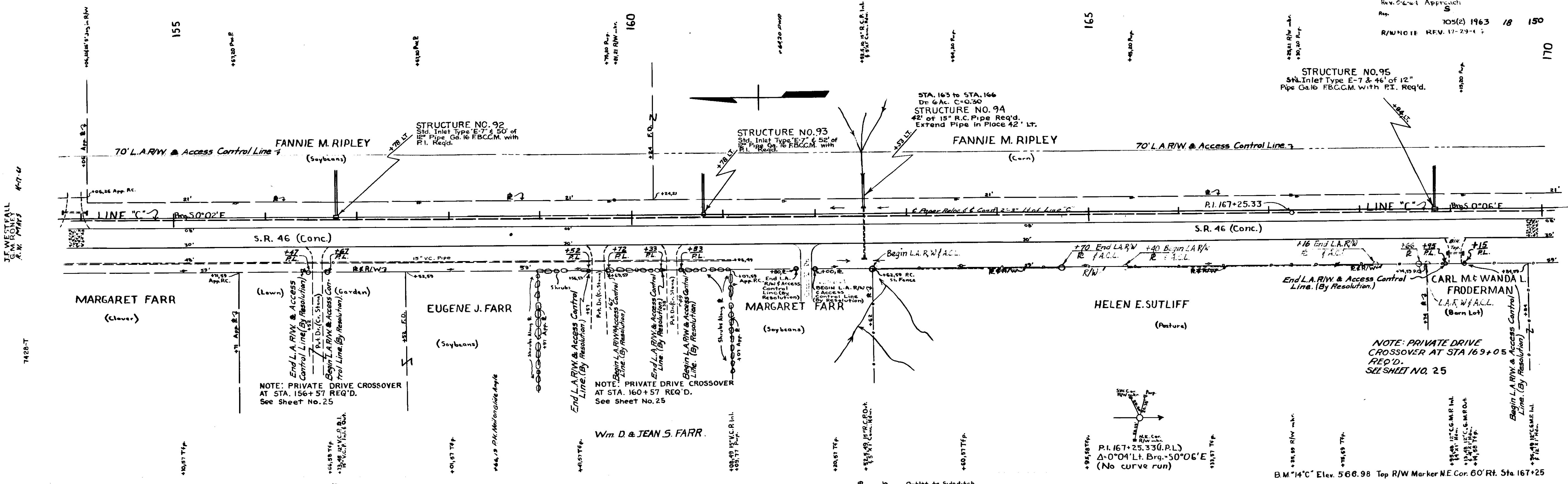
124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140





Rev. 1,3,77 L.A.R/W Added as Shown - Per R/W Dept

Rev. Sheet Approach  
105(2) 1963 18 150  
R/W NOTE REV. 12-29-61



NOTE: PRIVATE DRIVE CROSSOVER AT STA. 156+57 REQ'D. See Sheet No. 25

NOTE: PRIVATE DRIVE CROSSOVER AT STA. 160+57 REQ'D. See Sheet No. 25

NOTE: PRIVATE DRIVE CROSSOVER AT STA. 163+05 REQ'D. SEE SHEET NO. 25

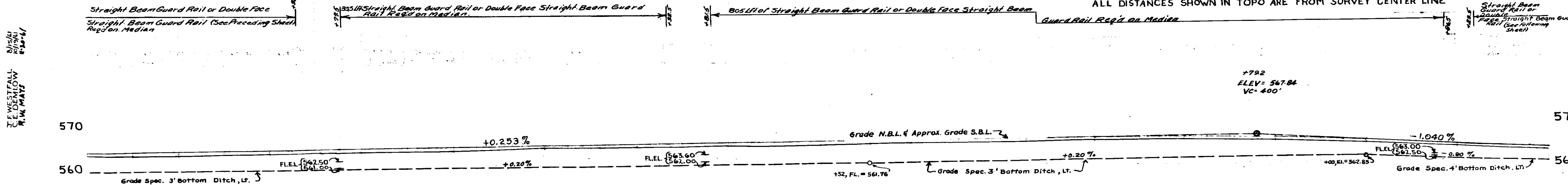
P.I. 167+25.33 (P.L.)  
Δ=0°04' Lt. Brg. -50°06' E  
(No curve run)

B.M. 14\"/>

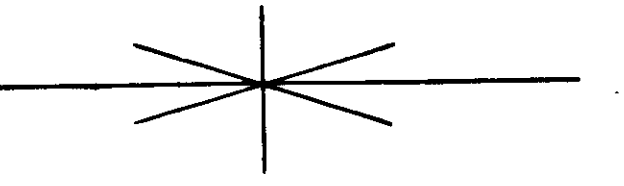
Subsurface Drain on Lt. From Sta. 156+85 To Sta. 162+48 to be Constructed at Minimum Depth Below Grade as Shown on Typical Cross Section (Pay Length 593')

Subsurface Drain on Lt. From Sta. 162+75 To Sta. 176+00 to be Constructed at Minimum Depth Below Grade as Shown on Typical Cross Section (Pay Length 1385')

ADDITIONAL R/W TO BE AS SHOWN  
ALL R/W TO BE MEASURED FROM P.R. OR C.L. OF CONSTRUCTION  
ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LINE

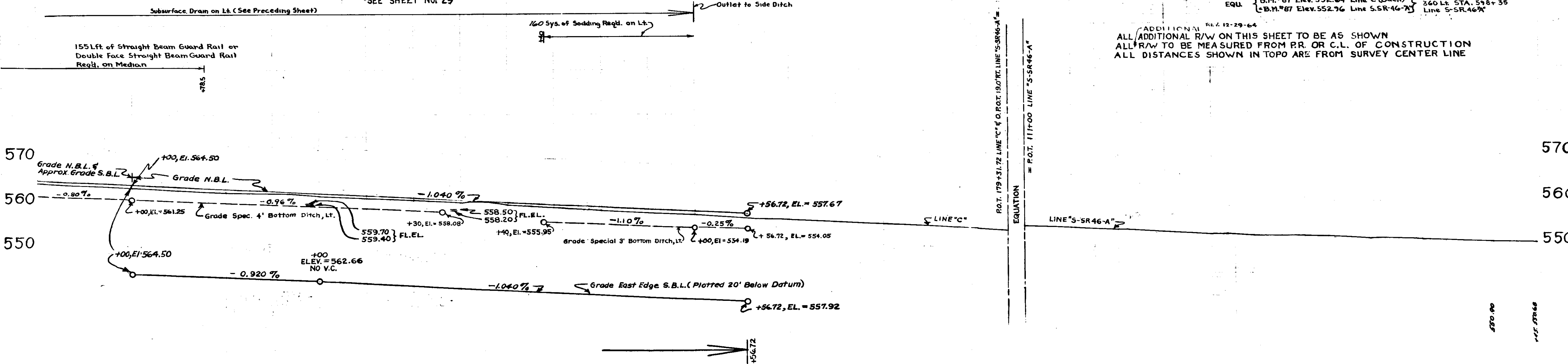
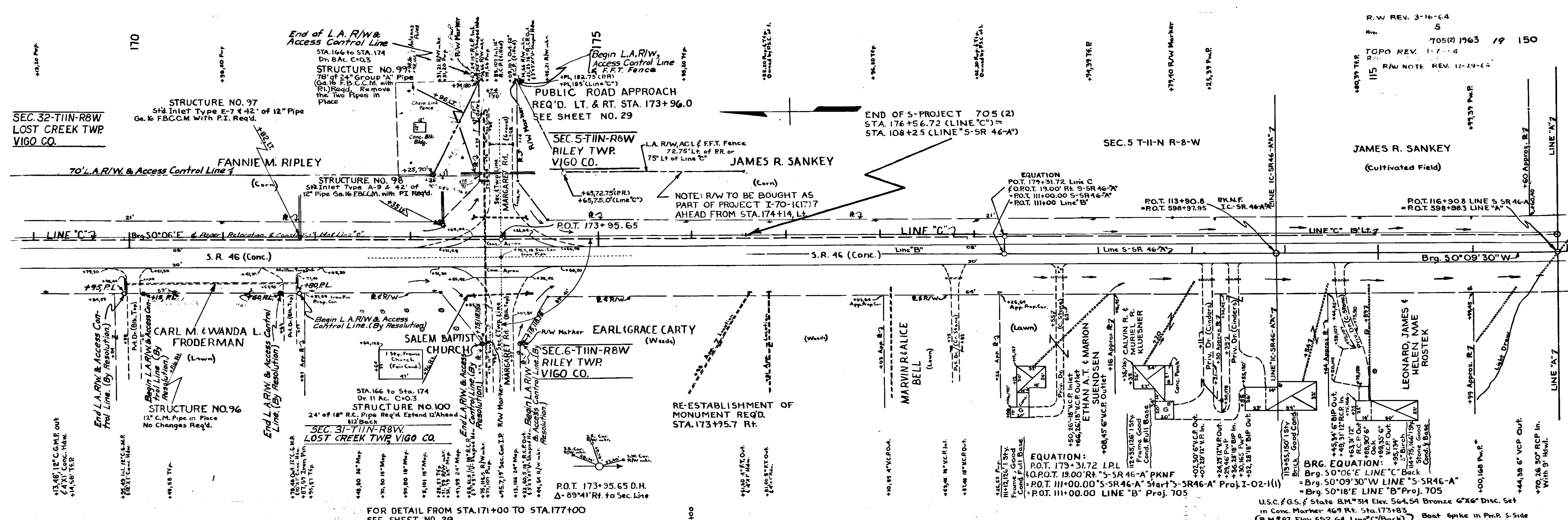


BALANCE No. 10  
 Cut 2389 CYS.  
 Fill ±25% 2325 CYS.  
 Waste 64 CYS.



560	560	560	561	562	563	564	565	566	567	568	569	570				
154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170

105(2) "C" 18



564.8	563.6	562.7	562.1	561.7	560.7	560.6	560.0	559.2	558.2	558.0	557.4	556.4	556.2	555.1	554.3	554.1	553.8	553.6	553.4	552.9	552.8	552.8	552.7	552.4	552.1	551.7	551.7
169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196

R.W. REV. 3-16-64  
 TOPO REV. 1-7-64  
 R.W. NOTE REV. 11-29-64  
 705(2) 19 150

JAMES R. SANKEY  
 (Cultivated Field)

LEONARD JAMES + HELEN MAE ROSTEK

U.S.C. & G.S. State B.M. #314 Elev. 564.54 Bronze 6" X 6" Disc. Set in Conc. Marker 469 Rt. Sta. 173+83  
 B.M. #87 Elev. 552.64 Line C (Back) 360 Lt. STA. 598+35  
 B.M. #87 Elev. 552.96 Line S-SR-46-A

ADDITIONAL R/W ON THIS SHEET TO BE AS SHOWN  
 ALL R/W TO BE MEASURED FROM P.R. OR C.L. OF CONSTRUCTION  
 ALL DISTANCES SHOWN IN TOPO ARE FROM SURVEY CENTER LINE

UNIT F-7-13  
 116  
 705(2) "C" 19

W. H. H. & Co. Inc. R. W. Mays

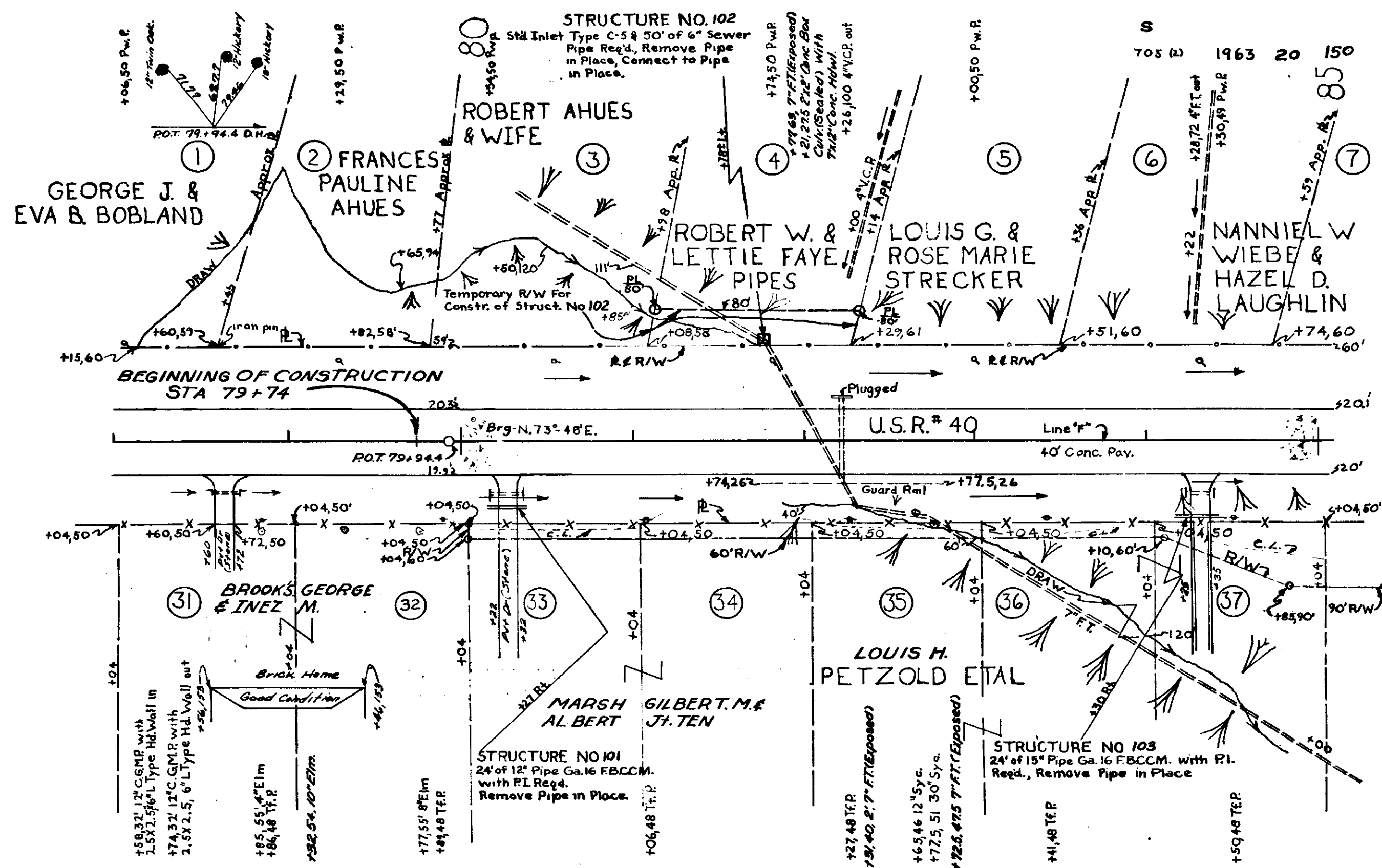
6721T

W. H. H. & Co. Inc. R. W. Mays

6730L



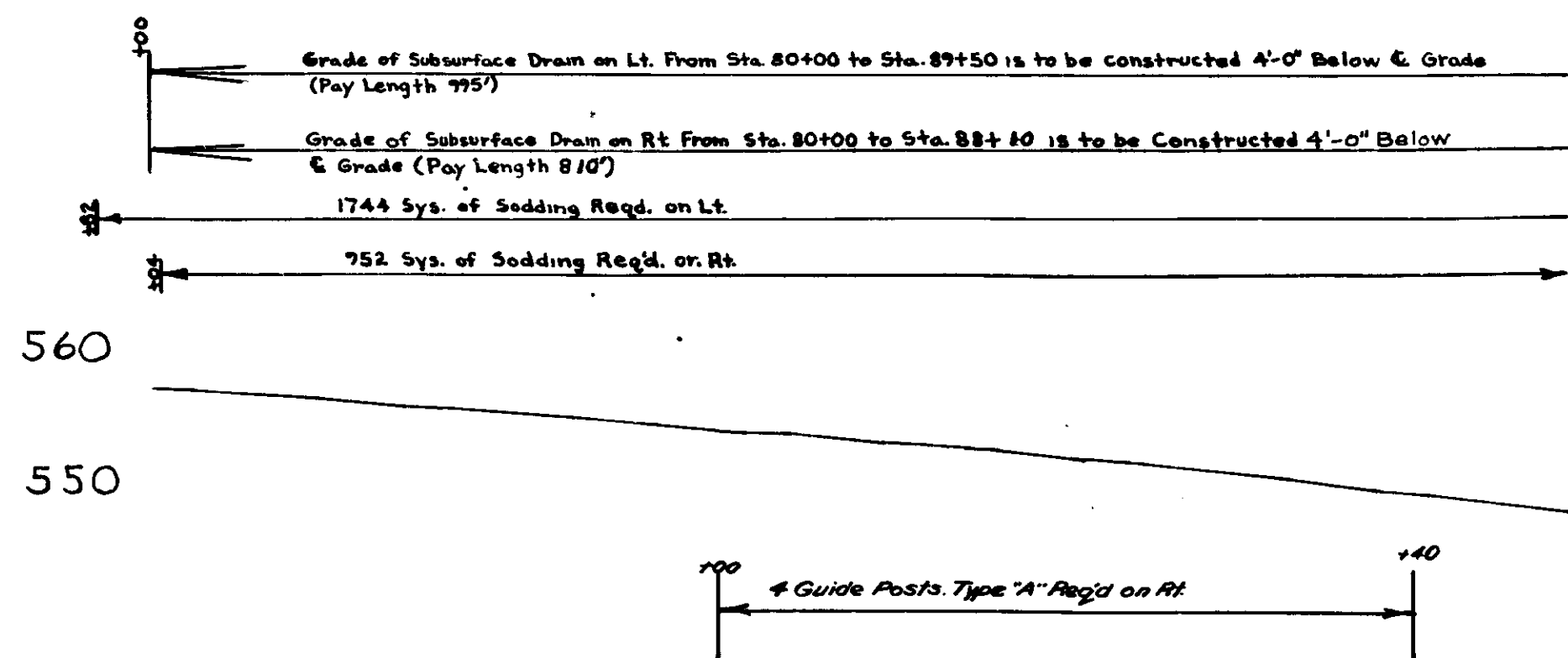
NOTE: Incidental Construction from Sta. 79+74 to Sta. 99+50 Line "F" U.S. #40



B.M.#6 = U.S.C. & G.S. B.M.R. 66, 1946 El. 556.42 Bronze Disc. in 4\"/>

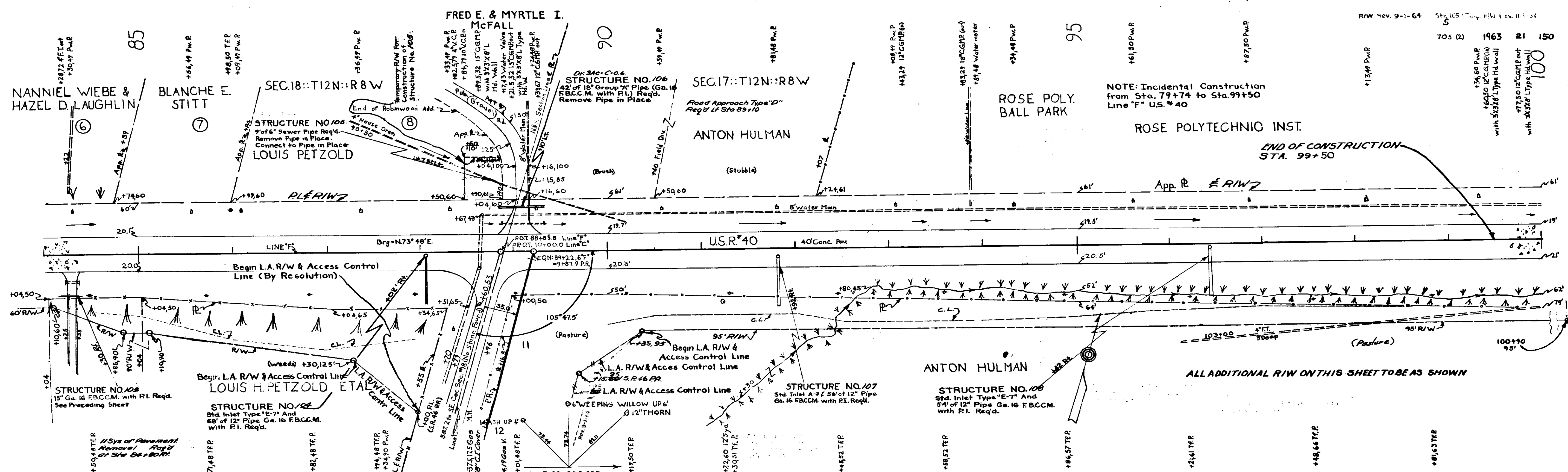
B.M.#7 Elev. 539.00 Bt. Spk. in 30' Sycamore 146' Lt. Sta. 89+33

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

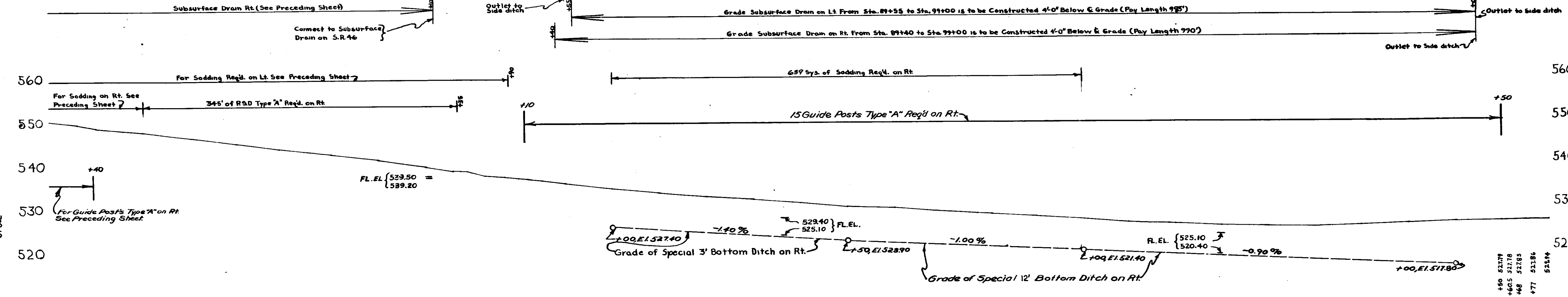


78      79      80      81      82      83      84      85

705 (2)      20



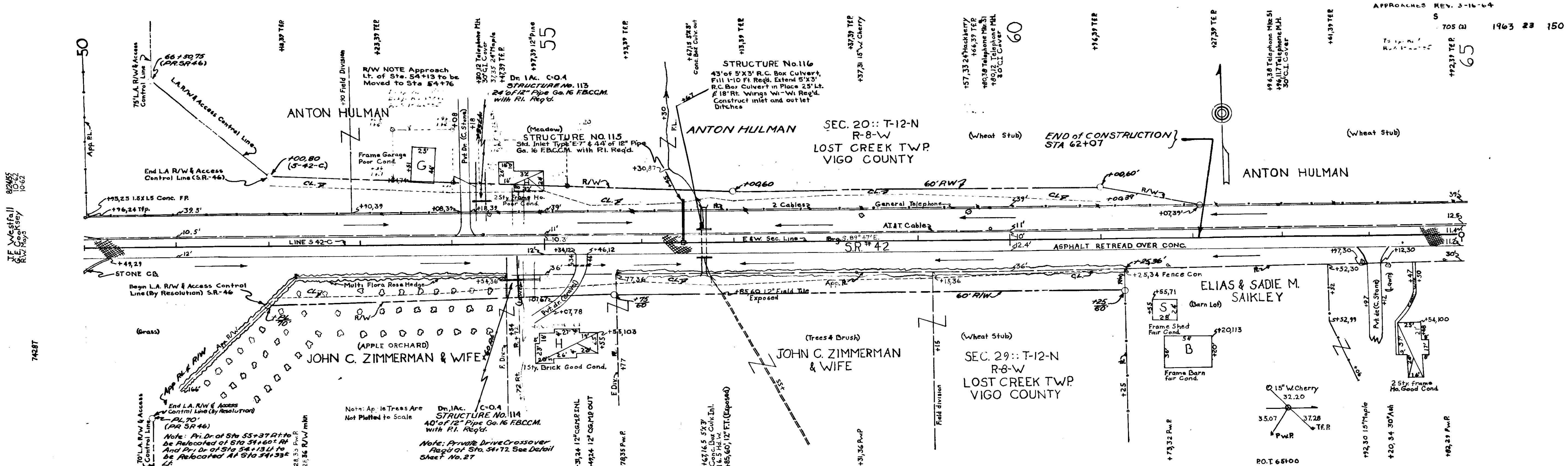
B.M.\*6=U.S.C.&G.S. B.M.\*R-66 Elev. 556.42 Bronze Disc. in 4'x10' Conc. Hd. Wl. 33'Rt. Sta. 72+06.5  
 B.M.\*7 Elev. 539.00 Bt. Spk. in 30" Sycamore 146' Lt. Sta. 89+33  
 B.M.\*8=U.S.C.&G.S. B.M.\*S-66 Elev. 528.60 Bronze Disc. in Conc. Wg. Wl. 30'Rt. Sta. 101+30



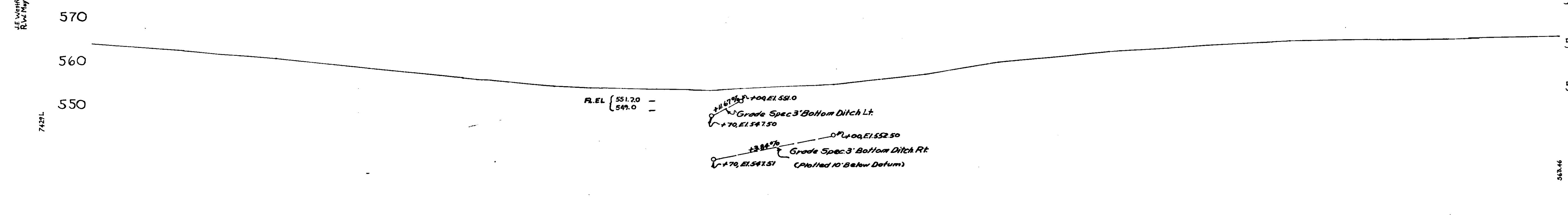
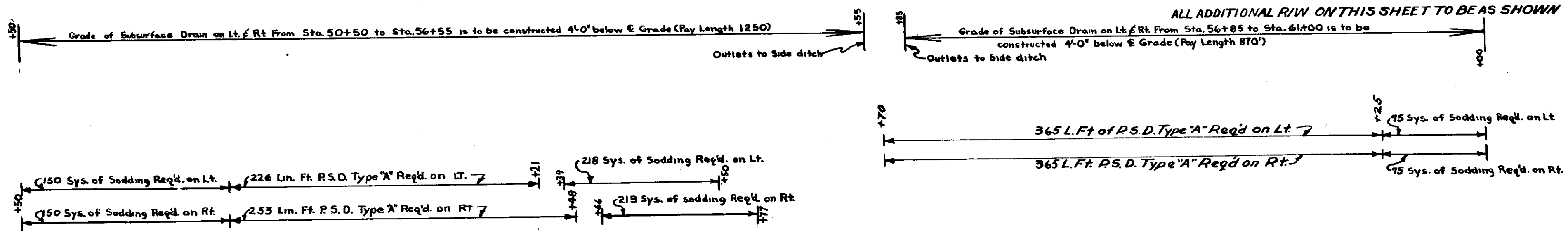
84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99
520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00	520.00

DATE 7-7-63



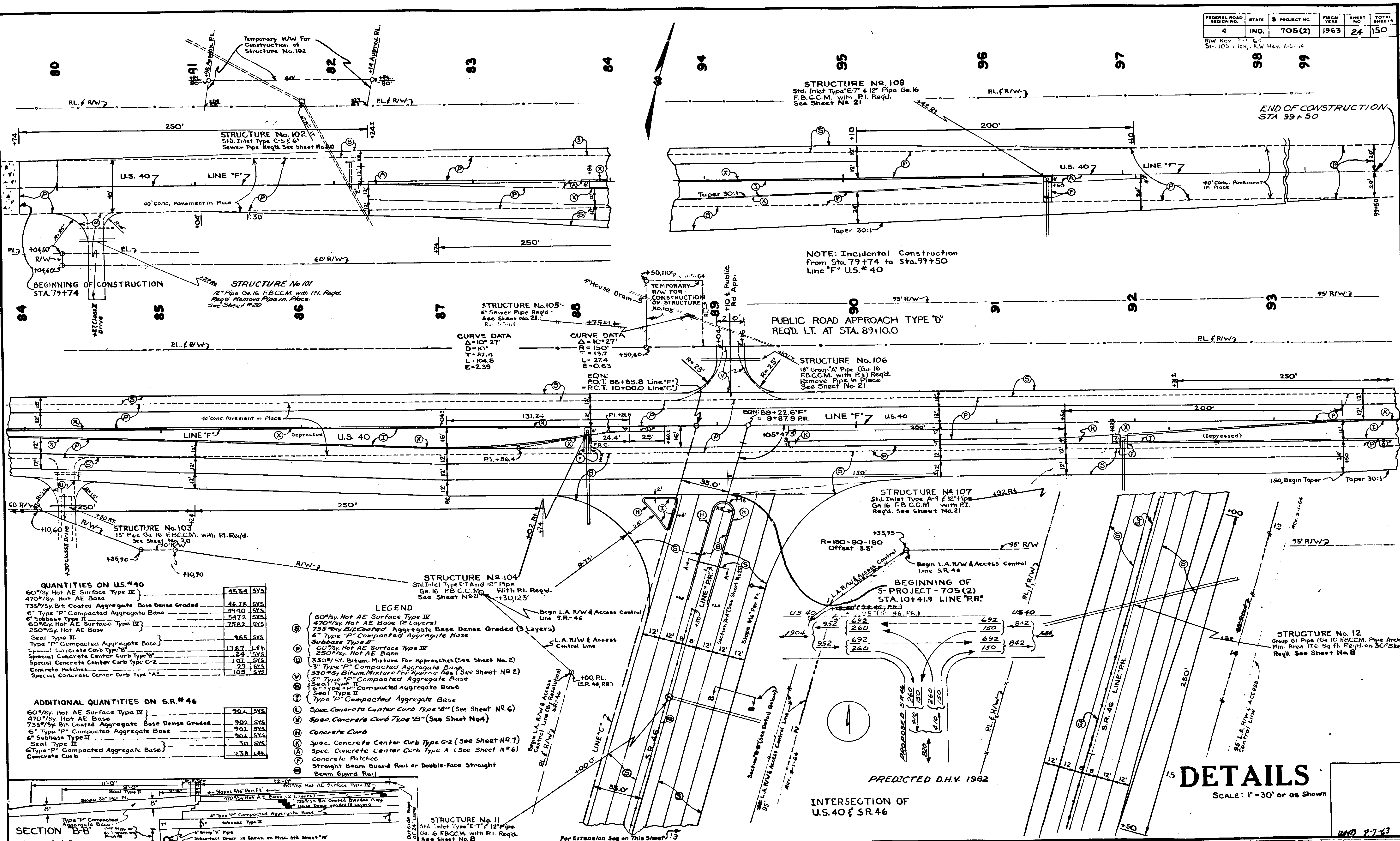


P.O.T. 68900  
 B.M.# 5 C Elev. 541.51 Bt. Spk. in Pw. Pole 28' Rt. Sta. 41+71  
 B.M.# 6 C Elev. 539.22 Bt. Spk. in Pw. Pole 24' Rt. Sta. 56+53  
 B.M.# 7 C Elev. 566.70 Bt. Spk. in Pw. Pole 27' Rt. Sta. 68+07  
 T.B.M.# 3 Elev. 553.50 N.W. Cor. S. Hd. wall 15' Rt. Sta. 56+60 'S-42-C'  
 T.B.M.# 4 Elev. 563.82 Bt. Spk. in 24" Maple 30' Rt. Sta. 63+92 'S-42-C'



558.80	564.07	562.00	557.48	557.13	557.17	556.44	555.97	561.98	566.56	565.27	563.36	558.81	558.81	553.84	553.82	553.82	553.87	553.86	554.58	554.77	552.22	552.71	561.23	562.27	563.13	563.14	563.38	563.33	563.21	563.46
--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705(2)	1963	24	150



**QUANTITIES ON U.S. 40**

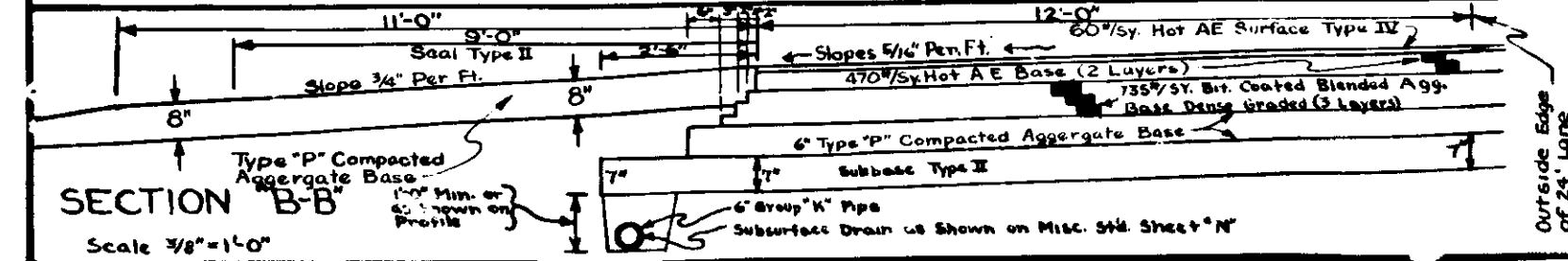
60%/Sy. Hot AE Surface Type III	4534	SYS
470%/Sy. Hot AE Base	9940	SYS
735%/Sy. Bit. Coated Aggregate Base Dense Graded	4678	SYS
6" Type "P" Compacted Aggregate Base	5472	SYS
60%/Sy. Hot AE Surface Type III	1582	SYS
250%/Sy. Hot AE Base	955	SYS
Seal Type II	1787	Lb
Special Concrete Curb Type "B"	24	SYS
Special Concrete Center Curb Type G-2	107	SYS
Concrete Patches	73	SYS
Special Concrete Center Curb Type "A"	108	SYS

**ADDITIONAL QUANTITIES ON S.R. 46**

60%/Sy. Hot AE Surface Type II	907	SYS
470%/Sy. Hot AE Base	902	SYS
735%/Sy. Bit. Coated Aggregate Base Dense Graded	902	SYS
6" Type "P" Compacted Aggregate Base	902	SYS
60%/Sy. Hot AE Surface Type II	902	SYS
250%/Sy. Hot AE Base	30	SYS
Seal Type II	238	Lb
Concrete Curb		

- LEGEND**
- (S) 60%/Sy. Hot AE Surface Type III
  - (A) 470%/Sy. Hot AE Base (2 Layers)
  - (B) 735%/Sy. Bit. Coated Aggregate Base Dense Graded (3 Layers)
  - (C) 6" Type "P" Compacted Aggregate Base
  - (D) 60%/Sy. Hot AE Surface Type III
  - (E) 250%/Sy. Hot AE Base
  - (F) Seal Type II
  - (G) Special Concrete Curb Type "B"
  - (H) Special Concrete Center Curb Type G-2
  - (I) Concrete Patches
  - (J) Special Concrete Center Curb Type "A"
  - (K) Straight Beam Guard Rail or Double-Face Straight Beam Guard Rail

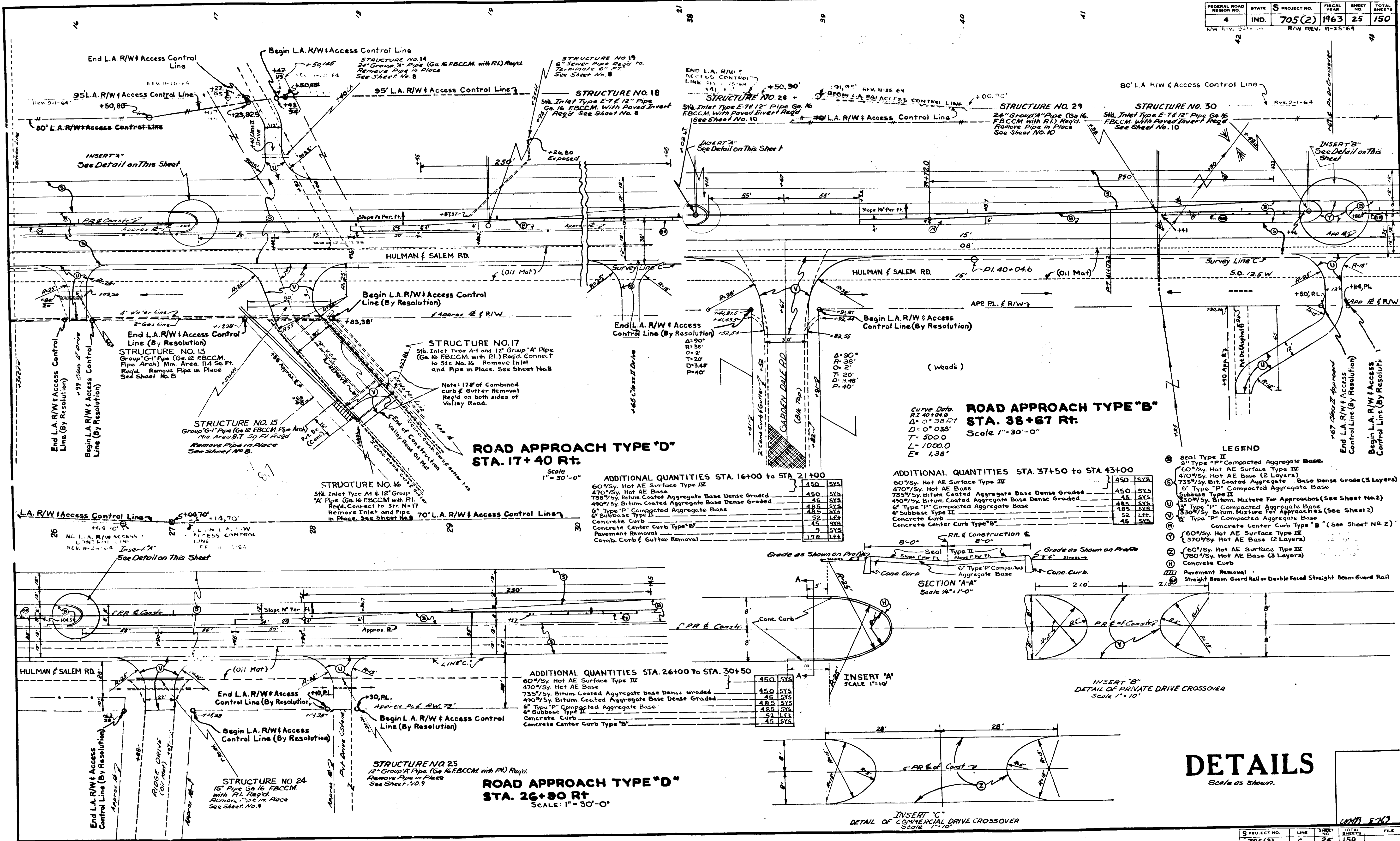


**DETAILS**  
SCALE: 1" = 30' or as Shown

PROJECT NO.	LINE	SHEET	TOTAL SHEETS	FILE
705(2)	C	24	150	

November 6, 1961





**ROAD APPROACH TYPE "D"**  
**STA. 17+40 RT.**  
 Scale 1" = 30'-0"

ADDITIONAL QUANTITIES STA. 16+00 to STA. 21+00

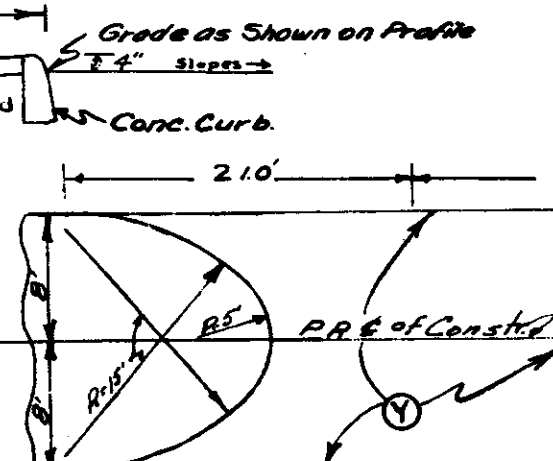
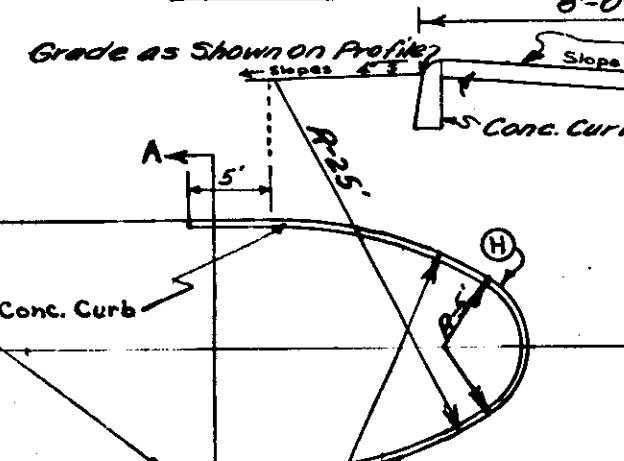
60%/Sy. Hot AE Surface Type III	450	525
470%/Sy. Hot AE Base	45	525
735%/Sy. Bitum. Coated Aggregate Base Dense Graded	45	525
490%/Sy. Bitum. Coated Aggregate Base Dense Graded	48.5	525
6" Type "P" Compacted Aggregate Base	52	525
6" Subbase Type II	45	525
Concrete Curb	52	525
Concrete Center Curb Type "B"	52	525
Pavement Removal	178	525
Comb. Curb & Gutter Removal	178	525

**ROAD APPROACH TYPE "B"**  
**STA. 38+67 RT.**  
 Scale 1" = 30'-0"

ADDITIONAL QUANTITIES STA. 37+50 to STA. 43+00

60%/Sy. Hot AE Surface Type III	450	525
470%/Sy. Hot AE Base	45	525
735%/Sy. Bitum. Coated Aggregate Base Dense Graded	45	525
490%/Sy. Bitum. Coated Aggregate Base Dense Graded	48.5	525
6" Type "P" Compacted Aggregate Base	52	525
6" Subbase Type II	45	525
Concrete Curb	52	525
Concrete Center Curb Type "B"	52	525

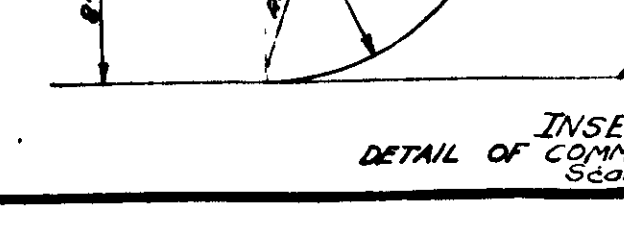
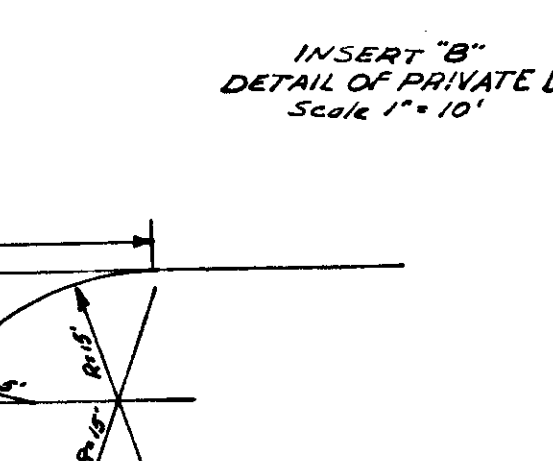
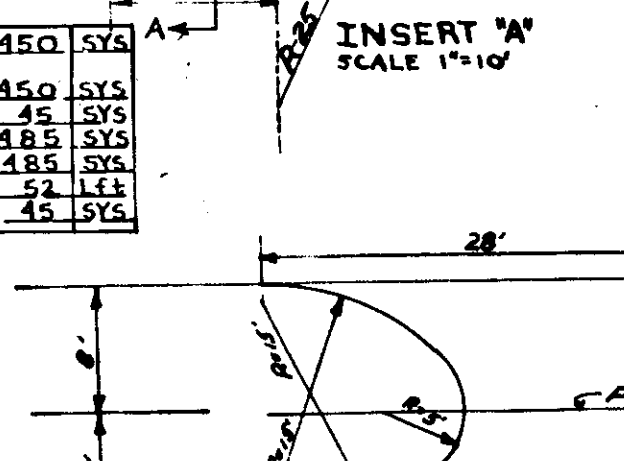
- LEGEND**
- ⑥ Seal Type II
  - ⑥ Type "P" Compacted Aggregate Base
  - ⑥ 60%/Sy. Hot AE Surface Type III
  - ⑥ 470%/Sy. Hot AE Base (2 Layers)
  - ⑥ 735%/Sy. Bit. Coated Aggregate Base Dense Graded (3 Layers)
  - ⑥ 6" Type "P" Compacted Aggregate Base
  - ⑥ Subbase Type II
  - ⑥ 490%/Sy. Bitum. Mixture For Approaches (See Sheet No. 2)
  - ⑥ 430%/Sy. Bitum. Coated Aggregate Base Dense Graded
  - ⑥ 6" Type "P" Compacted Aggregate Base
  - ⑥ 6" Subbase Type II
  - ⑥ 530%/Sy. Bitum. Mixture For Approaches (See Sheet 2)
  - ⑥ 6" Type "P" Compacted Aggregate Base
  - ⑥ Concrete Curb
  - ⑥ Concrete Center Curb Type "B" (See Sheet No. 2)
  - ⑥ 60%/Sy. Hot AE Surface Type III
  - ⑥ 470%/Sy. Hot AE Base (3 Layers)
  - ⑥ Concrete Curb
  - ⑥ Pavement Removal
  - ⑥ Straight Beam Guard Rail or Double Faced Straight Beam Guard Rail



**ROAD APPROACH TYPE "D"**  
**STA. 26+90 RT.**  
 Scale 1" = 30'-0"

ADDITIONAL QUANTITIES STA. 26+00 to STA. 30+50

60%/Sy. Hot AE Surface Type III	450	525
470%/Sy. Hot AE Base	45	525
735%/Sy. Bitum. Coated Aggregate Base Dense Graded	45	525
490%/Sy. Bitum. Coated Aggregate Base Dense Graded	48.5	525
6" Type "P" Compacted Aggregate Base	52	525
6" Subbase Type II	45	525
Concrete Curb	52	525
Concrete Center Curb Type "B"	52	525



**DETAILS**  
 Scale as Shown.

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705(2)	1963	26	150

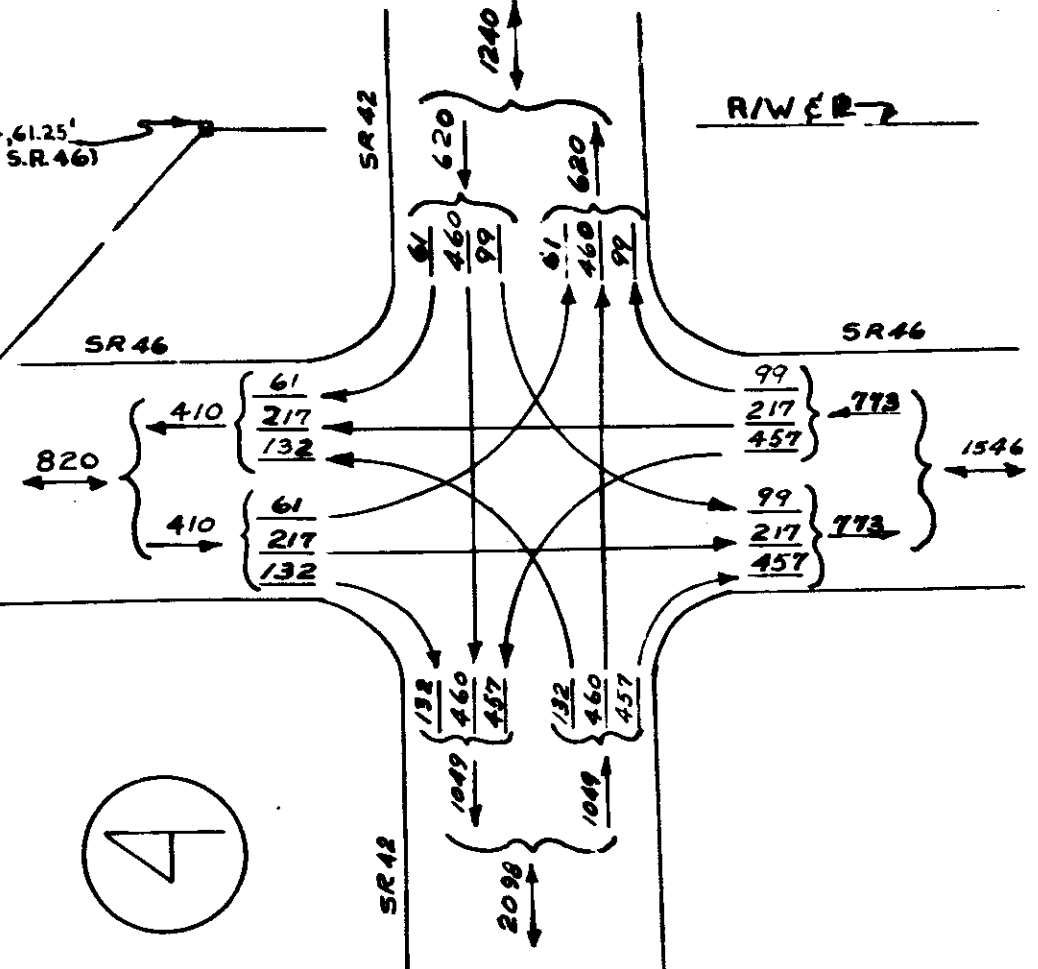
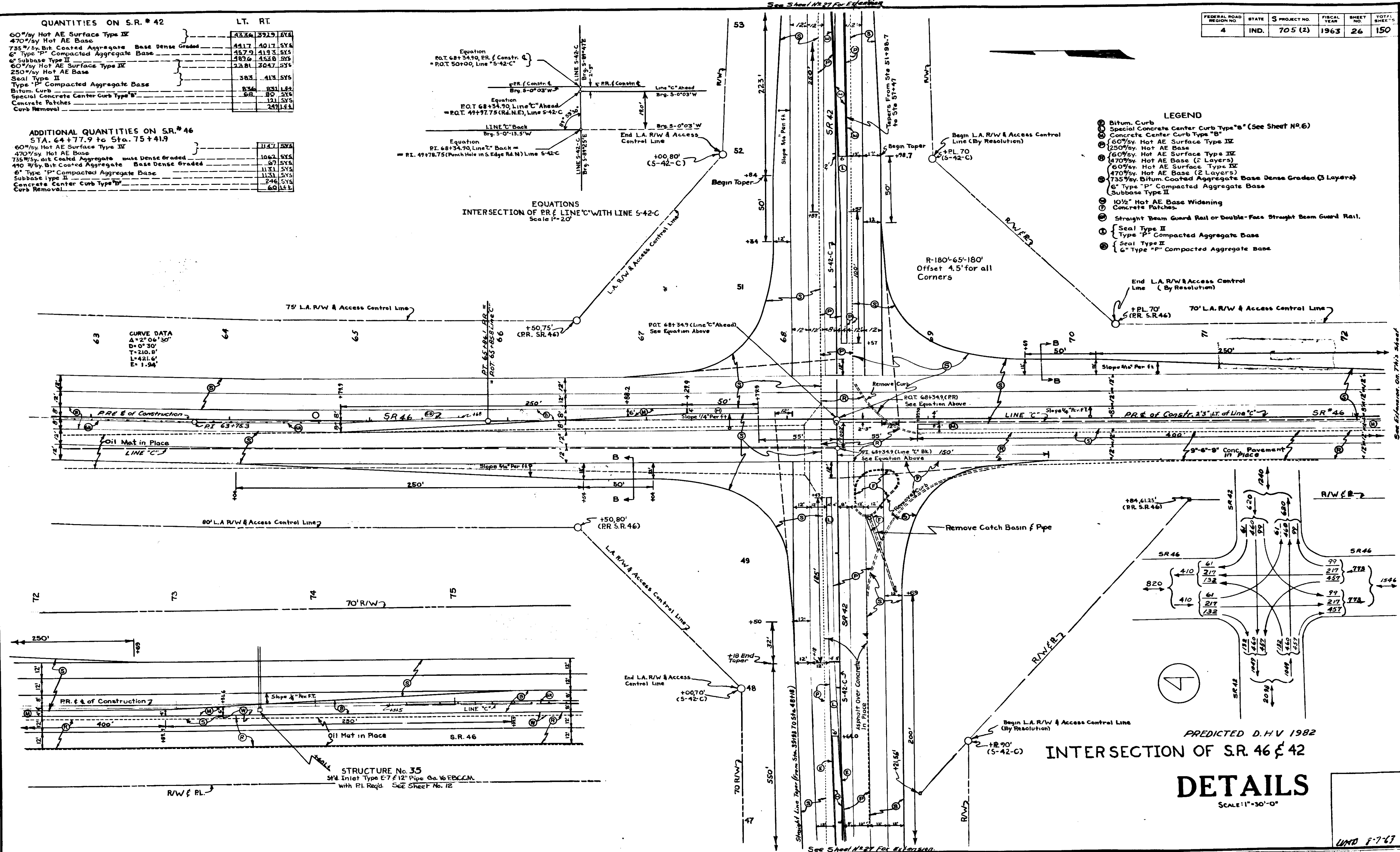
**QUANTITIES ON S.R. # 42**

	LT.	RT.
60#/sy Hot AE Surface Type IV	4334	3929
470#/sy Hot AE Base	4417	4017
735#/sy Bit Coated Aggregate Base Dense Graded	4579	4183
6" Type "P" Compacted Aggregate Base	4896	4528
Subbase Type II	3281	3047
60#/sy Hot AE Surface Type IV	383	413
250#/sy Hot AE Base	374	351
Seal Type II	68	80
Type "P" Compacted Aggregate Base	121	121
Bitum. Curb	241	241
Special Concrete Center Curb Type "B"	121	121
Concrete Patches	241	241
Curb Removal	241	241

**ADDITIONAL QUANTITIES ON S.R. # 46**  
STA. 64+77.9 to Sta. 75+41.9

	LT.	RT.
60#/sy Hot AE Surface Type IV	1147	594
470#/sy Hot AE Base	1062	514
735#/sy Bit Coated Aggregate Base Dense Graded	1131	544
6" Type "P" Compacted Aggregate Base	1131	544
Subbase Type II	246	246
Concrete Center Curb Type "B"	60	60
Curb Removal	60	60

- LEGEND**
- ① Bitum. Curb
  - ② Special Concrete Center Curb Type "B" (See Sheet No. 6)
  - ③ 60#/sy Hot AE Surface Type IV
  - ④ 470#/sy Hot AE Base
  - ⑤ 735#/sy Bit Coated Aggregate Base Dense Graded (3 Layers)
  - ⑥ 6" Type "P" Compacted Aggregate Base Subbase Type II
  - ⑦ 10 1/2" Hot AE Base Widening
  - ⑧ Concrete Patches
  - ⑨ Straight Beam Guard Rail or Double-Face Straight Beam Guard Rail
  - ⑩ Seal Type II
  - ⑪ Type "P" Compacted Aggregate Base
  - ⑫ 6" Type "P" Compacted Aggregate Base



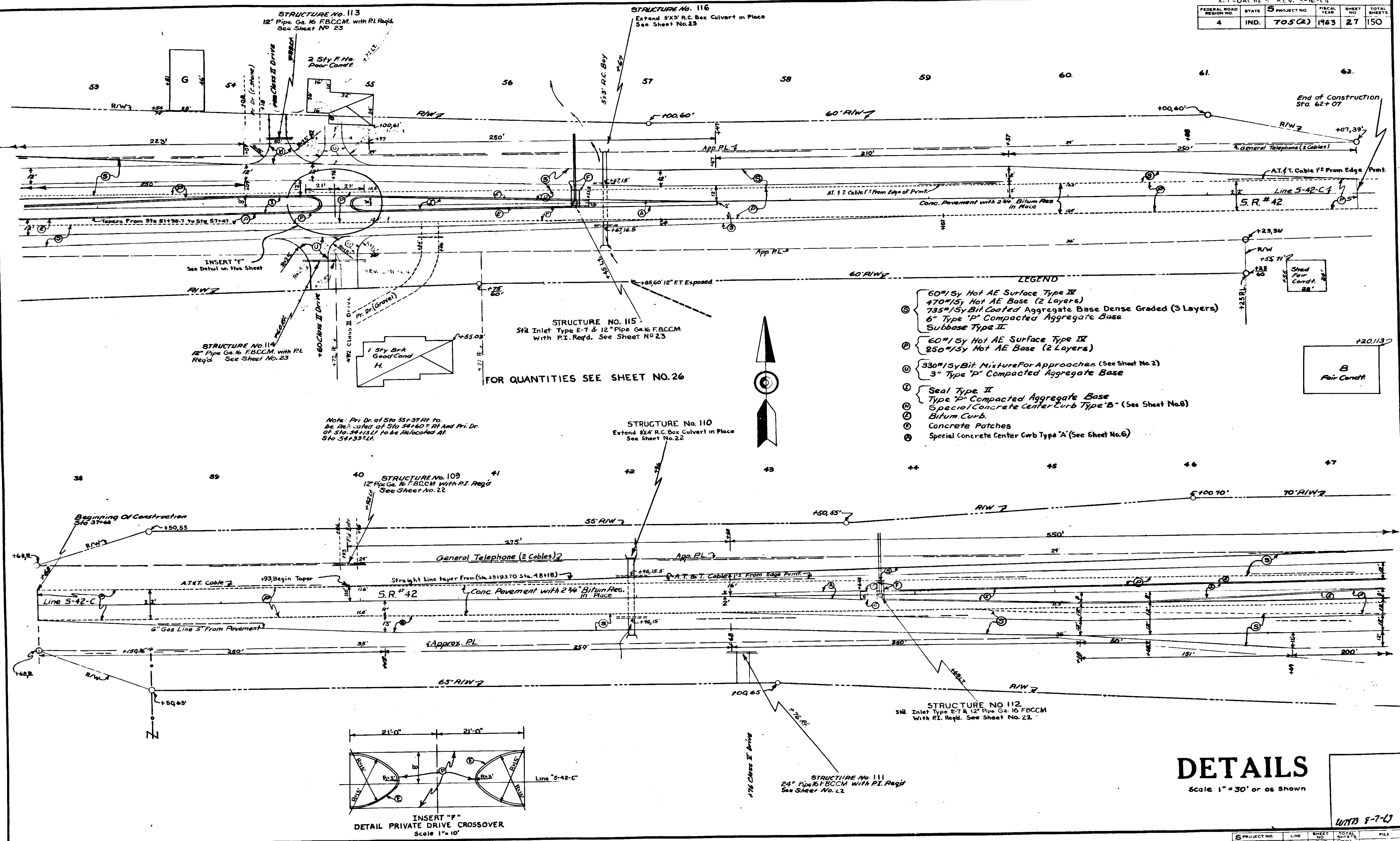
PREDICTED D.H.V. 1982  
**INTERSECTION OF S.R. 46 & 42**  
**DETAILS**  
 SCALE: 1"=30'-0"

STRUCTURE No. 35  
 54" Inlet Type E-7 12" Pipe Co. 16 F.B.C.C.M.  
 with P.I. Req'd. See Sheet No. 12

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS
705(2)		26	150

FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705(2)	1963	27	150



# DETAILS

Scale 1" = 30' or as shown

November 6, 1961

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
705(2)	S 42C	27	150	

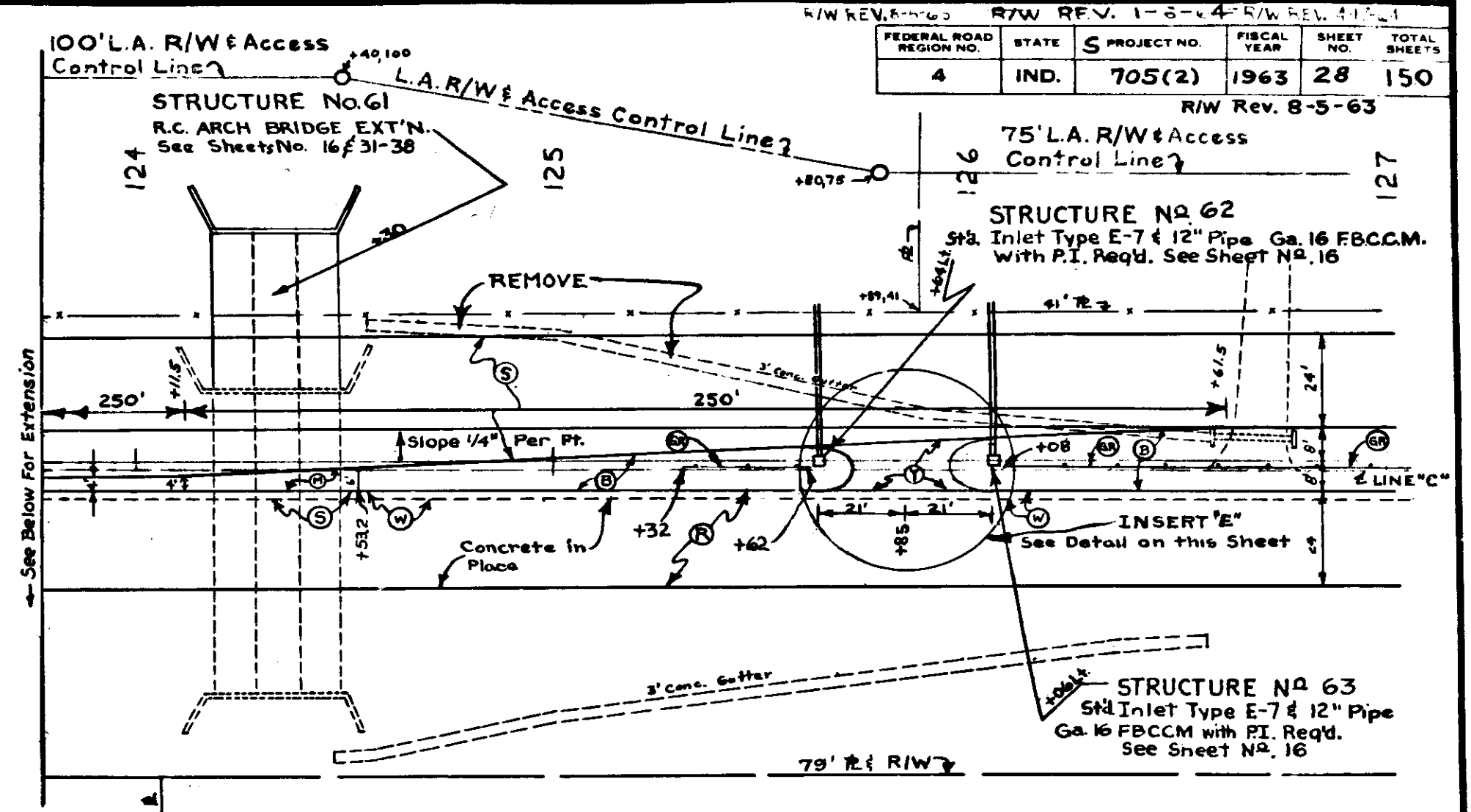
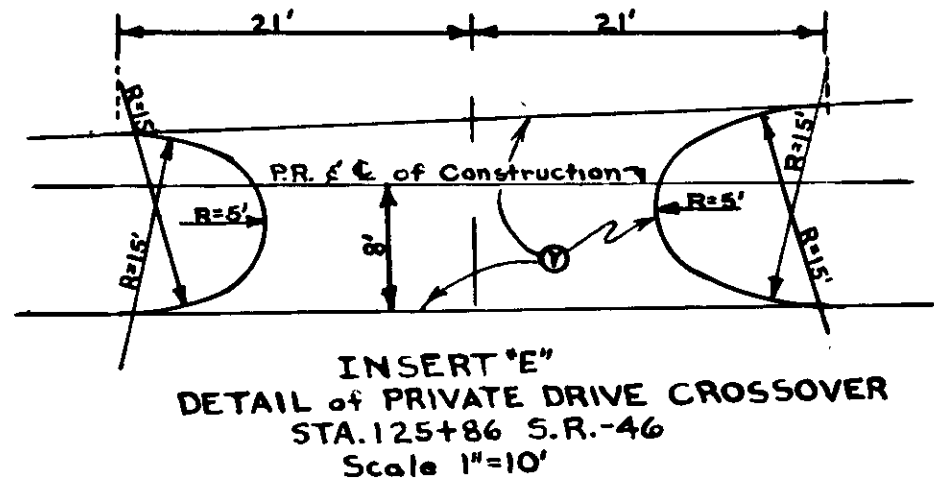
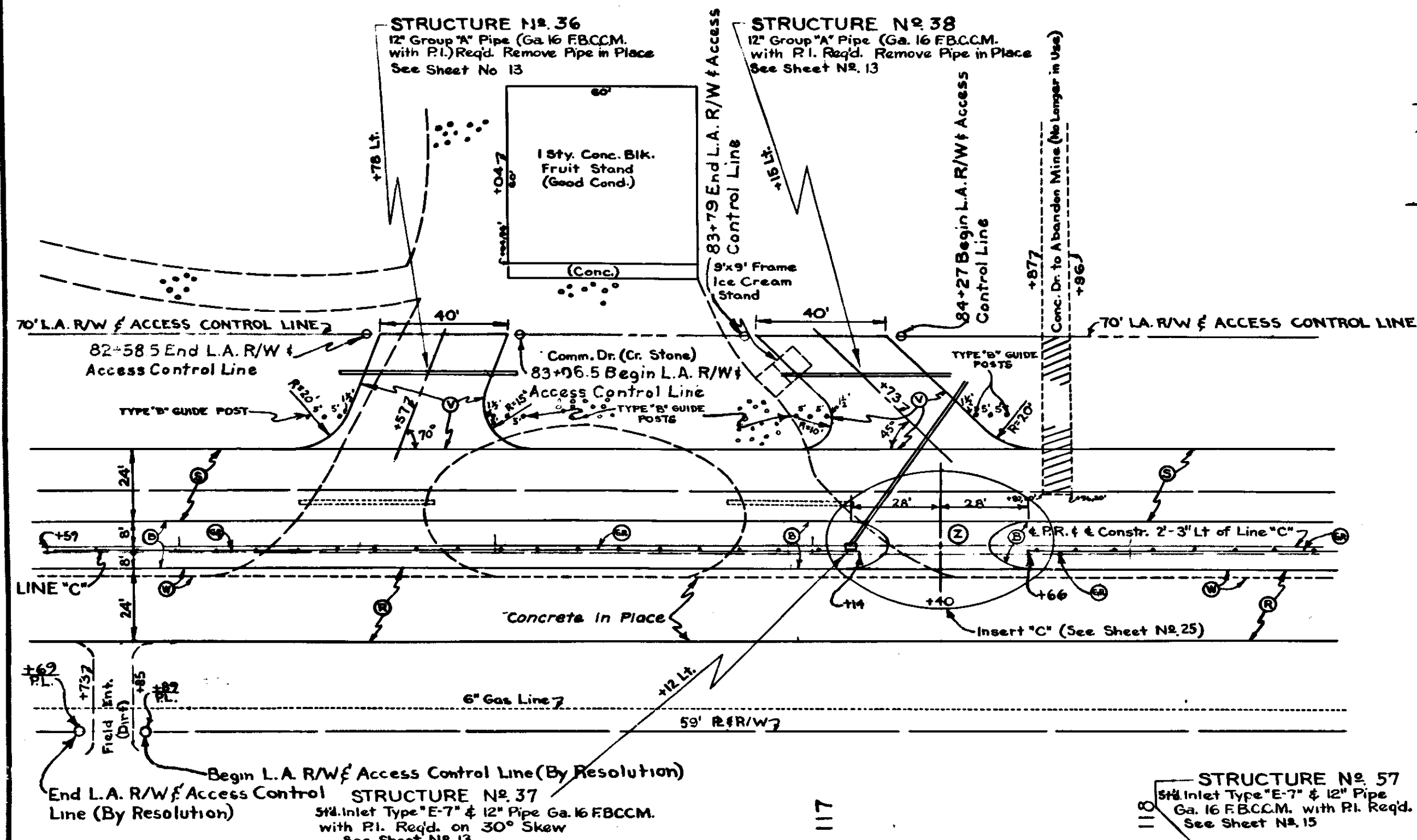
82

83

84

85

NOTE: Commercial Drive Crossover Req'd. at Sta. 84+40. See Sheet No. 25



FEDERAL ROAD DISTRICT NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	705(2)	1963	28	150

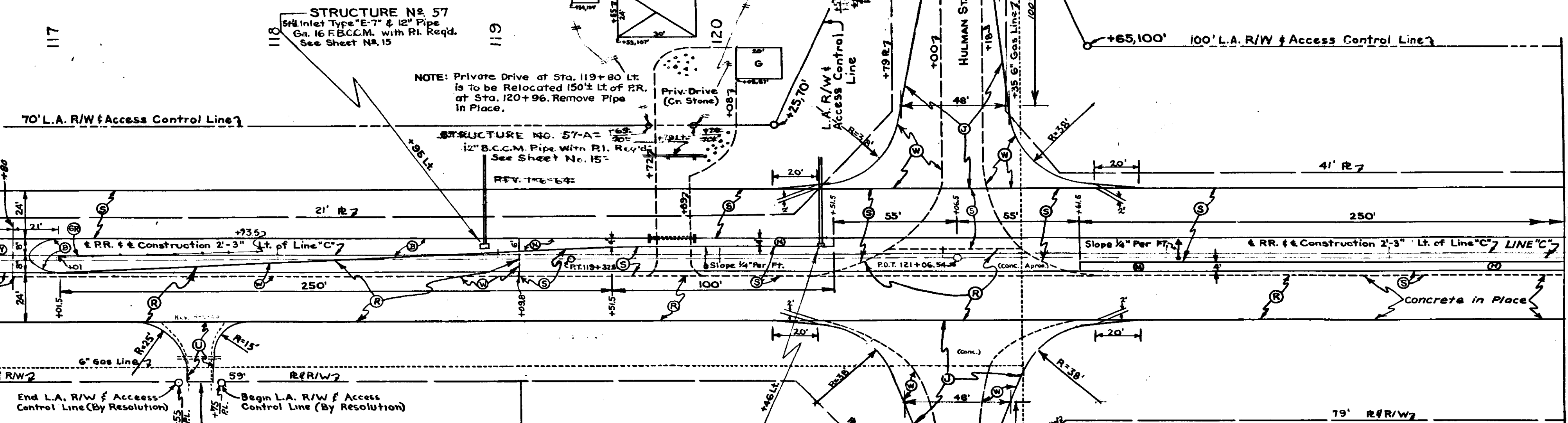
R/W REV. 1-5-64 R/W REV. 8-5-63

ADDITIONAL QUANTITIES STA. 82+00 TO STA. 85+00

Pavement Removal	53	SYS.
------------------	----	------

ADDITIONAL QUANTITIES STA. 117+00 TO STA. 127+00

60"/Sy. Hot AE Surface Type III	995	SYS.
470"/Sy. Hot AE Base	773	SYS.
735"/Sy. Bitum. Coated Agg. Base (Dense Graded)	375	SYS.
6" Type "P" Compacted Aggregate Base	375	SYS.
Subbase Type II	68	SYS.
Special Concrete Center Curb Type "C-1"	134	SYS.
Concrete Center Curb Type "B"	116	SYS.
10 1/2" Hot AE Base Widening	202	SYS.
Gutter Removal	202	SYS.
490"/Sy. Bitum. Coated Agg. Base (Dense Graded)	202	SYS.



- LEGEND
- ① Special Concrete Center Curb Type "G-1" (See Sheet No. 3)
  - ② 330"/Sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ③ 60"/Sy. Hot AE Surface Type II
  - ④ 470"/Sy. Hot AE Base (2 Layers)
  - ⑤ 60"/Sy. Hot AE Surface Type III
  - ⑥ 470"/Sy. Hot AE Base (2 Layers)
  - ⑦ 735"/Sy. Bitum. Coated Aggregate Base Dense Graded (3 Layers)
  - ⑧ 6" Type "P" Compacted Aggregate Base
  - ⑨ Subbase Type II
  - ⑩ 10 1/2" Hot AE Base Widening
  - ⑪ 330"/Sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ⑫ 3" Type "P" Compacted Aggregate Base
  - ⑬ 330"/Sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ⑭ 1 1/2" Type "P" Compacted Aggregate Base
  - ⑮ Pavement Removal
  - ⑯ Concrete Center Curb Type "B"
  - ⑰ 60"/Sy. Hot AE Surface Type IV
  - ⑱ 780"/Sy. Hot AE Base (3 Layers)
  - ⑲ 60"/Sy. Hot AE Surface Type III
  - ⑳ 370"/Sy. Hot AE Base (2 Layers)

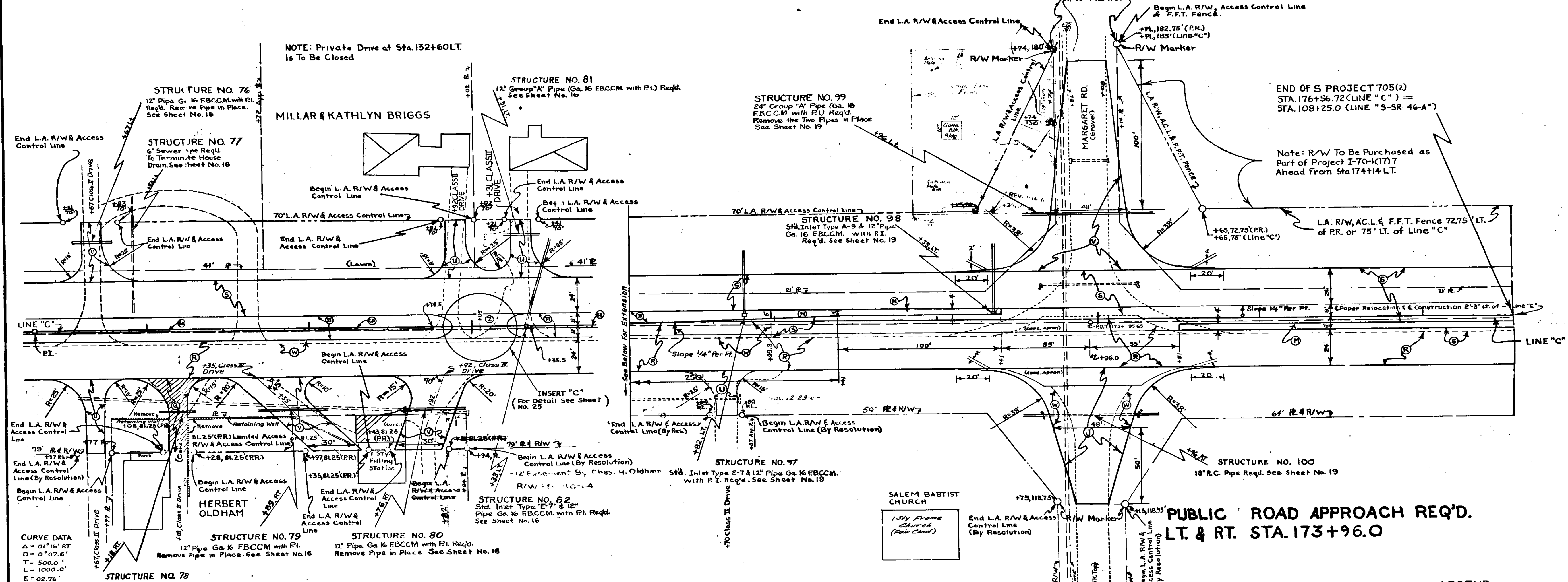
- LEGEND CONTINUED
- ① Straight Beam Guard Rail or Double-faced Straight Beam Guard Rail
  - ② Seal Type II
  - ③ 6" Type "P" Compacted Aggregate Base

**DETAILS**  
SCALE: 1"=30'-0" or as Shown

PROJECT NO.	LINE	SHEET NO.	TOTAL SHEETS	FILE
705(2)	C	28	150	

REV. 1-6-64  
 FEDERAL ROAD REGION NO. 4 STATE INDI. PROJECT NO. 705(2) FISCAL YEAR 1963 SHEET NO. 29 TOTAL SHEETS 150  
 TOPO. REV. 1-7-64  
 R/W REV. 3-10-64  
 176 R/W REV. 1-23-64

132 133 134 172 173 174 175



END OF S PROJECT 705(2)  
 STA. 176+56.72 (LINE "C") =  
 STA. 108+25.0 (LINE "S-5R 46-A")  
 Note: R/W To Be Purchased as  
 Part of Project I-70-10(17)7  
 Ahead from Sta 174+14 LT.

CURVE DATA  
 Δ = 01°16' RT  
 D = 0°07' 6"  
 T = 500.0'  
 L = 1000.0'  
 E = 02.76'

Note: Retaining Wall from Sta. 131+77 to  
 Sta. 133+23 Rt. is to be Removed (178 LFT.)

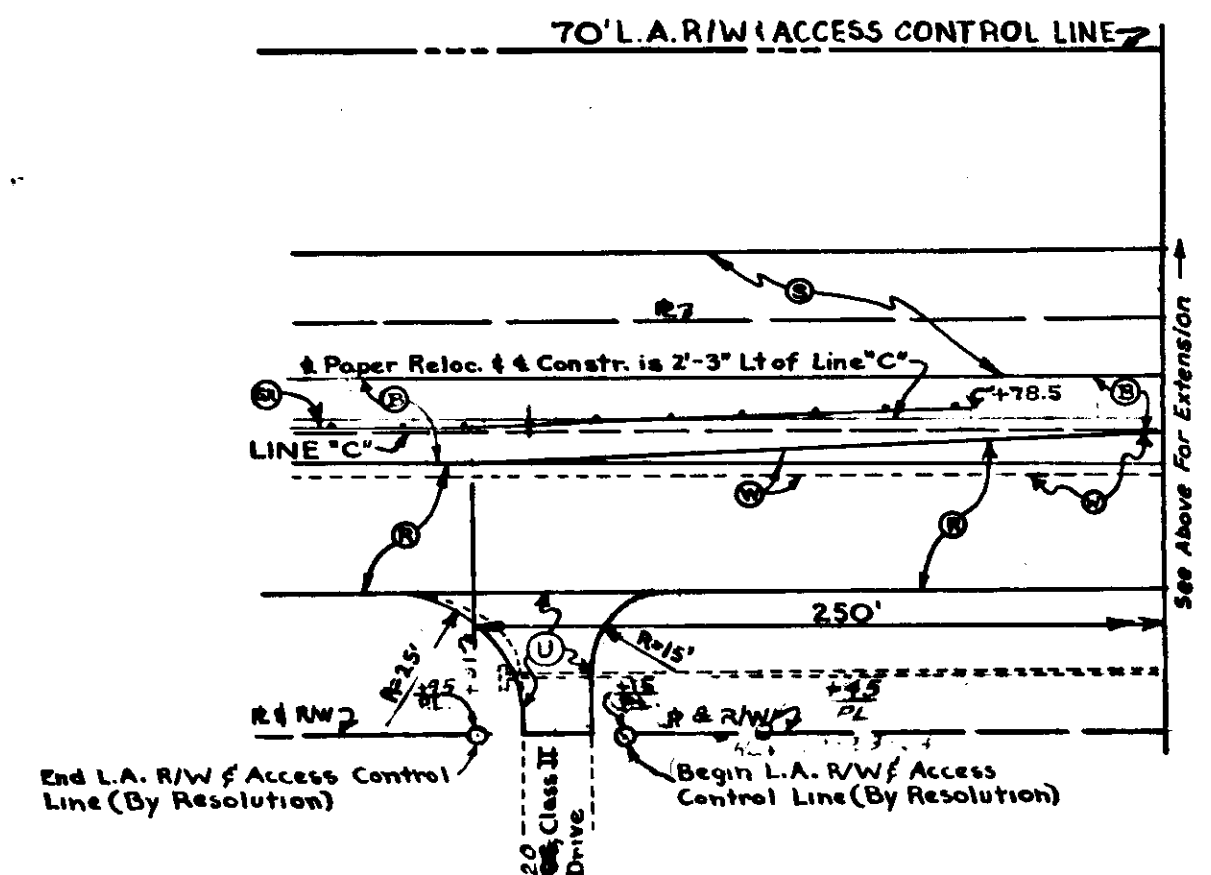
NOTE: COMMERCIAL DRIVE CROSSOVER  
 REQ'D. AT STA. 134+05

ADDITIONAL QUANTITIES STA. 131-50 TO 134+50	
Pavement Removal	159 SY
Retaining Wall Removal	178 LFT.

ADDITIONAL QUANTITIES STA. 169+91 TO STA. 176+56.72	
60%/sy. Hot AE Surface Type III	769 SY
470%/sy. Hot AE Base	647 SY
735%/sy. Bitum. Coated Agg. Base (Dense Graded)	692 SY
6" Type "P" Compacted Agg. Base	68 SY
Subbase Type II	32 SY
Special Concrete Center Curb Type "B"	116 SY
Concrete Center Curb Type "B"	313 LFT.
10 1/2" Hot AE Base Widening	313 LFT.
Form - Field Type Fence	160 SY
450%/sy. Bitum. Coated Agg. Base (Dense Graded)	160 SY

- LEGEND**
- ① 60%/sy. Hot AE Surface Type IV
  - ② 470%/sy. Hot AE Base
  - ③ 735%/sy. Bitum. Coated Aggregate Base Dense Graded (3 Layers)
  - ④ 6" Type "P" Compacted Aggregate Base
  - ⑤ Subbase Type II
  - ⑥ 60%/sy. Hot AE Surface Type IV
  - ⑦ 470%/sy. Hot AE Base (2 Layers)
  - ⑧ 10 1/2" Hot AE Base Widening
  - ⑨ 350%/sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ⑩ 330%/sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ⑪ 3" Type "P" Compacted Aggregate Base
  - ⑫ 330%/sy. Bitum. Mixture for Approaches (See Sheet No. 2)
  - ⑬ 5" Type "P" Compacted Aggregate Base
  - ⑭ Concrete Center Curb Type "B"
  - ⑮ Special Concrete Center Curb Type "B-1" (See Sheet No. 3)
  - ⑯ 60%/sy. Hot AE Surface Type IV
  - ⑰ 780%/sy. Hot AE Base (3 Layers)
  - ⑱ Private Drive Pavement
  - ⑲ Pavement Removal
  - Ⓜ Straight Beam Guard Rail or Double-Face Straight Beam Guard Rail
  - Ⓝ Seal Type II
  - Ⓞ 6" Type "P" Compacted Aggregate Base

**DETAILS**  
 Scale 1" = 30'-0"



November 6, 1961

PROJECT NO.	LINE	SHEET	TOTAL SHEETS
705(2)	C	29	150

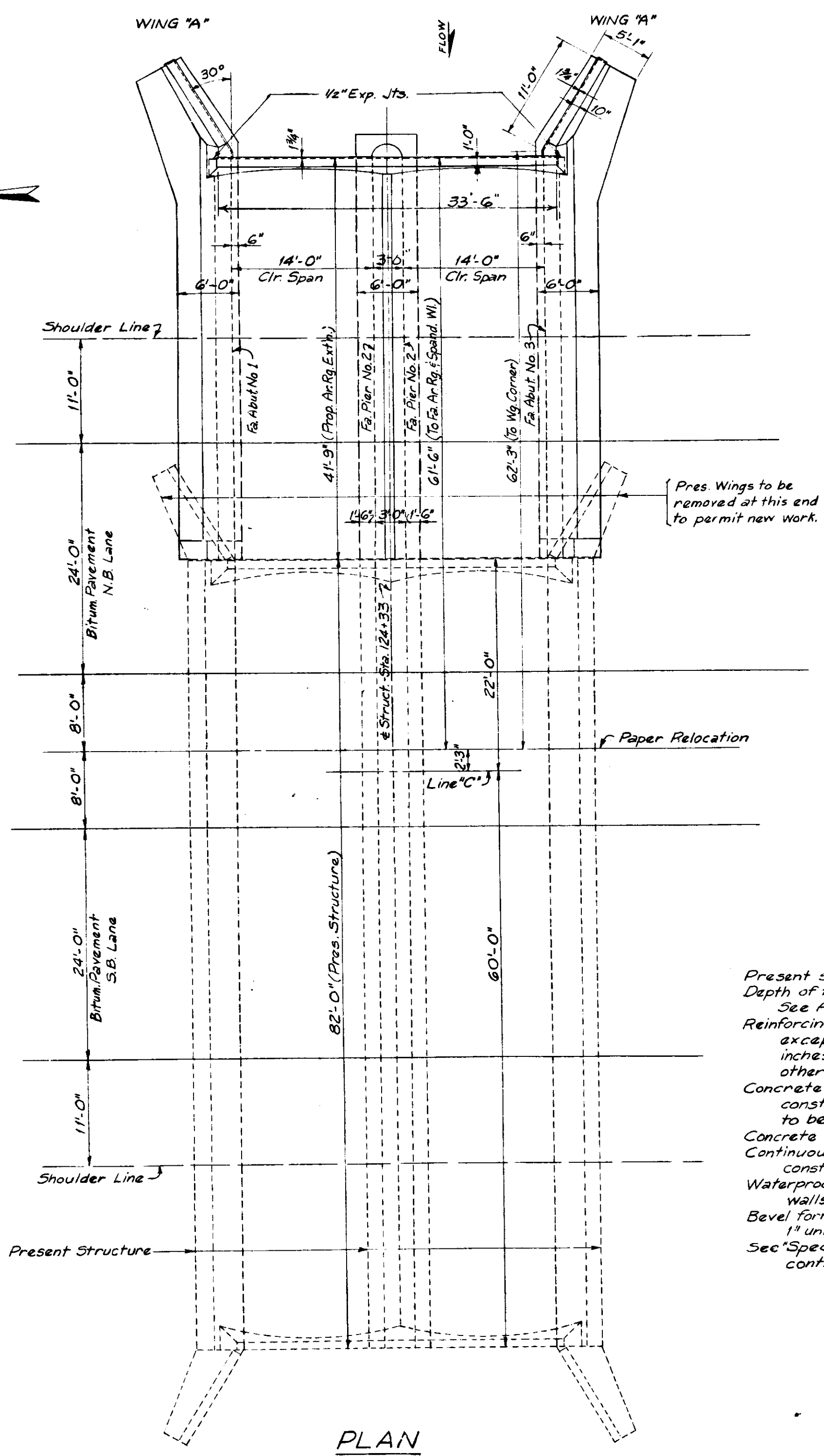


BRIDGES OVER 20' SPAN					
PUR. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-705(2)	1963	31	32, 150

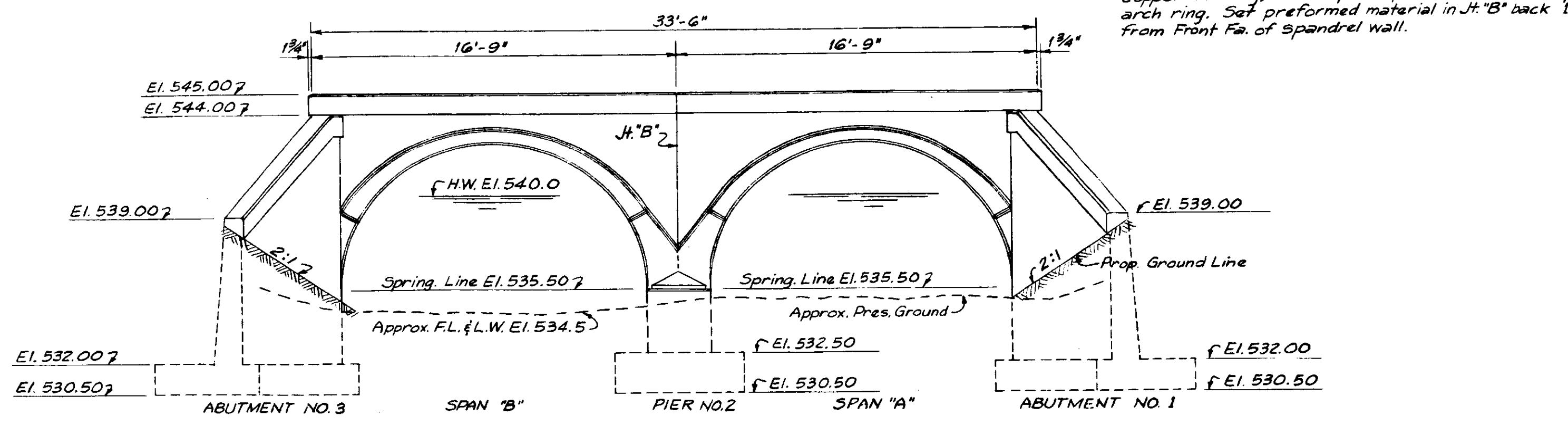
NOTE: STRUCTURE TO BE BUILT LEVEL.

**JOINT LEGEND**

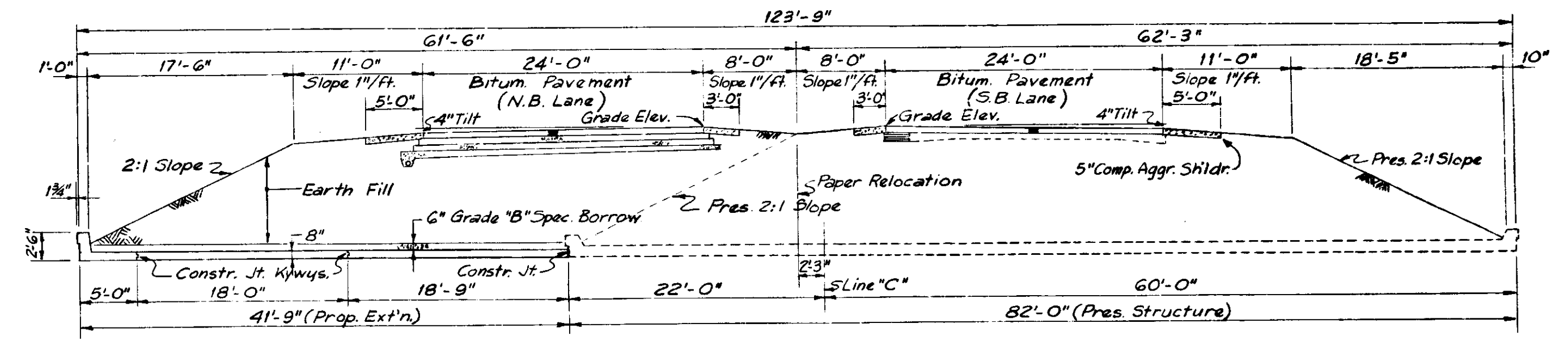
Joint "B" indicates 1/2" preformed joint filler (with copper flashing) from top of spandrel wall to top of arch ring. Set preformed material in Jt. "B" back 1" (min.) from front face of spandrel wall.



PLAN



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



SECTION AT CROWN

**GENERAL NOTES**

Present structure to be extended as shown.  
 Depth of footings to be extended if found necessary.  
 See Art. B403.2 of the Specifications.  
 Reinforcing steel covering shall be 3 inches in footings, except bottom steel which shall be 4 inches, 1 1/2 inches for stirrups in arch ring, and 2 inches in all other parts.  
 Concrete in footings, wingwalls, piers up to skewback construction joint, and abutments up to skewback to be class "E".  
 Concrete in structure and not noted above to be class "D".  
 Continuous concrete pours shall be required between construction joints as shown on detail plans.  
 Waterproof abutments, wingwalls, arch rings, and spandrel walls in accordance with the specifications.  
 Bevel forms 1/4" under copings and chamfer exposed edges 1" unless noted.  
 See "Special Provisions" for items included in this contract.

**DESIGN DATA**

UNIT STRESSES:  
 $f_s = 20,000$  #/sq. in.  
 $f_c = 1,200$  #/sq. in.  
 For arch ring analysis, an increase of 25% is permitted due to inclusion of temperature, rib shortening, and shrinkage stresses.  
 Ten feet of fill distributed in accordance with 1961 A.A.S.H.O. Specifications.

**TYPICAL CROSS SECTION**

See "SECTION AT CROWN"

**STANDARD DRAWINGS**

BR. STD.	PURPOSE
C1	Reinforcing Bar Notes
C2	Arch Ring Stirrups, Waterproofing Details and Expansion Joint Detail at Flared Wings, and Copper Flashing.

**GENERAL PLAN**

REINFORCED CONCRETE ARCH BRIDGE EXT'N.  
 2 SPANS @ 14'-0" (UNDER FILL) - 86' ROADWAY  
 OVER THOMPSON DITCH ON S.R. 46

INDIANA STATE HIGHWAY COMMISSION  
 VIGO COUNTY

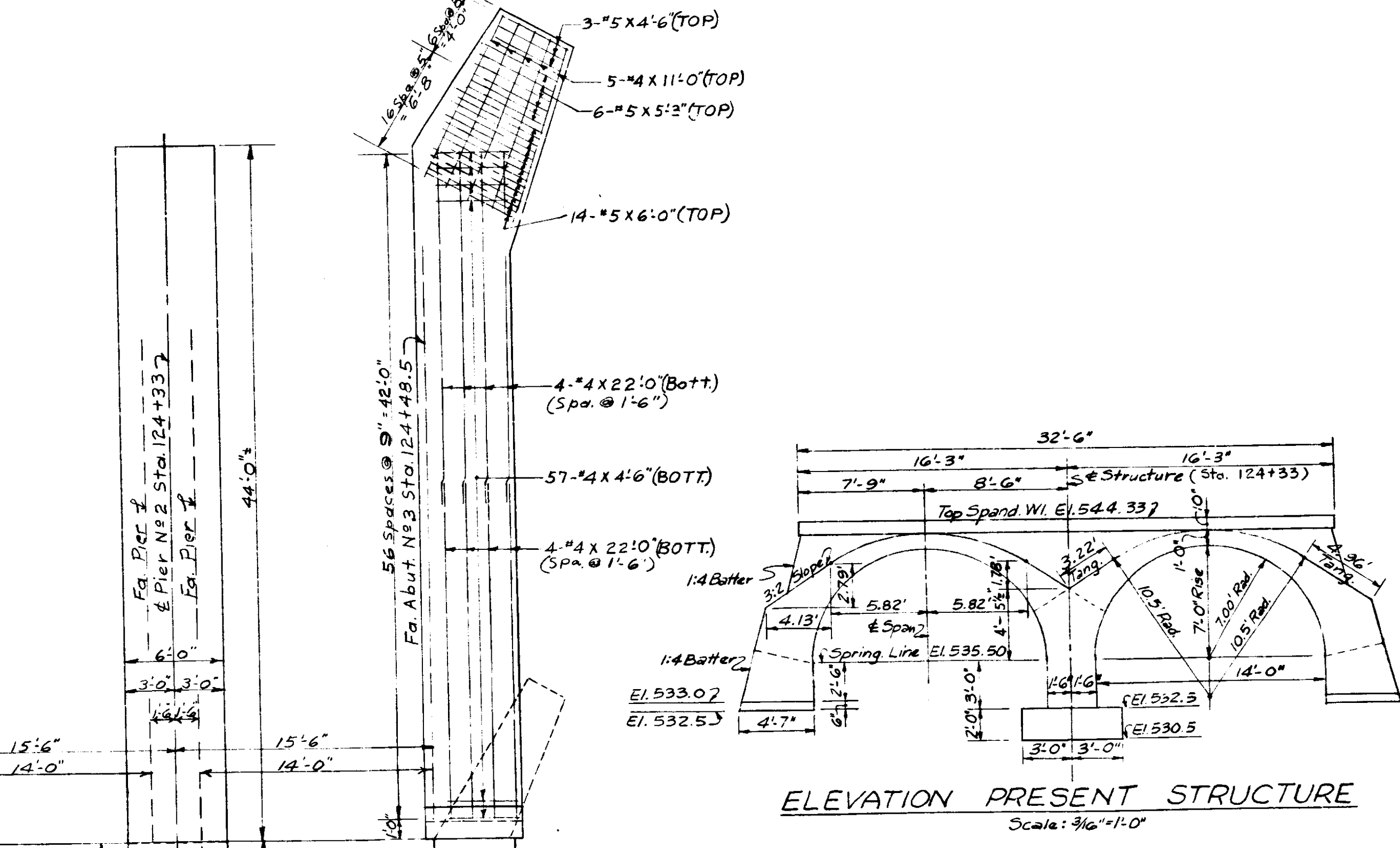
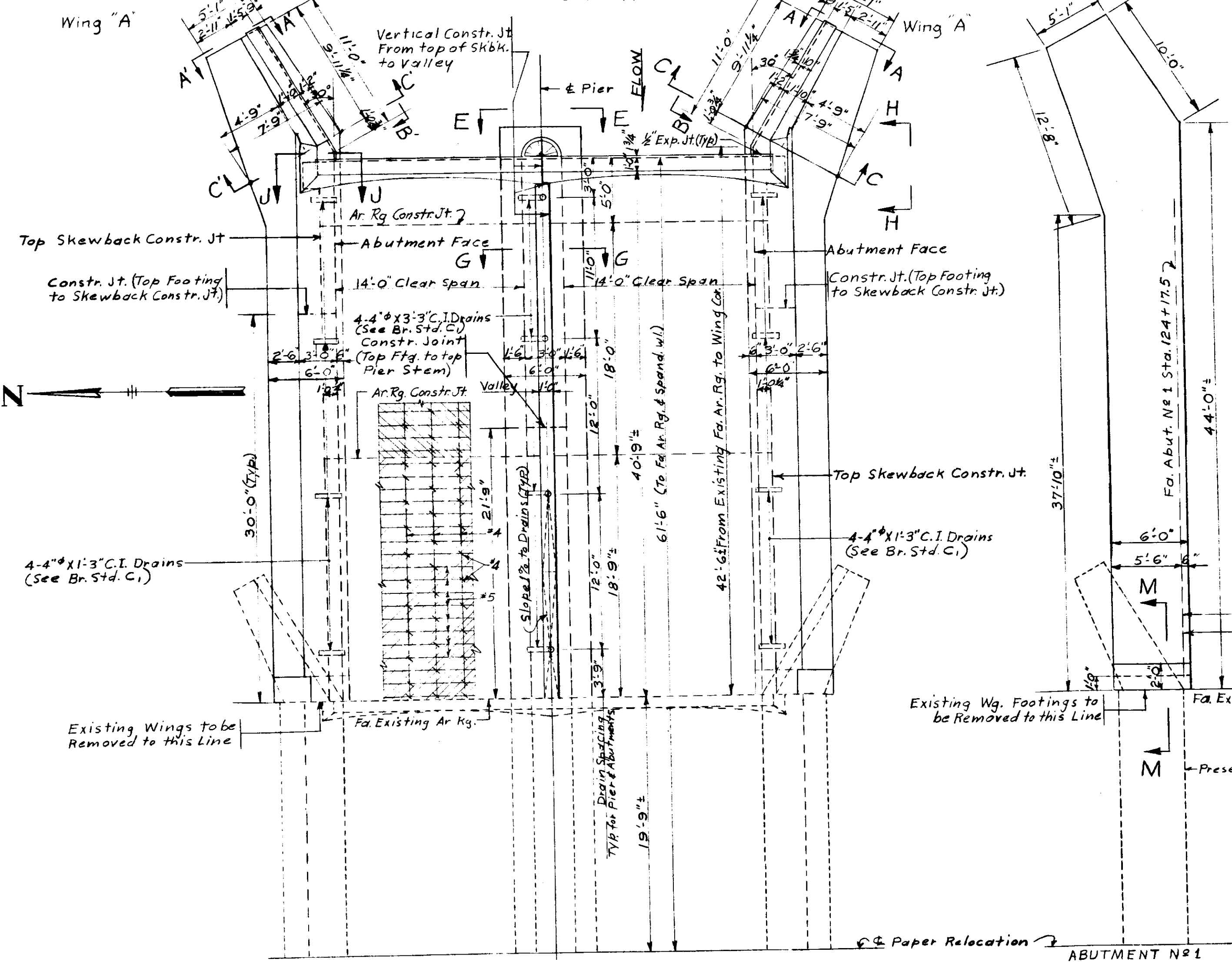
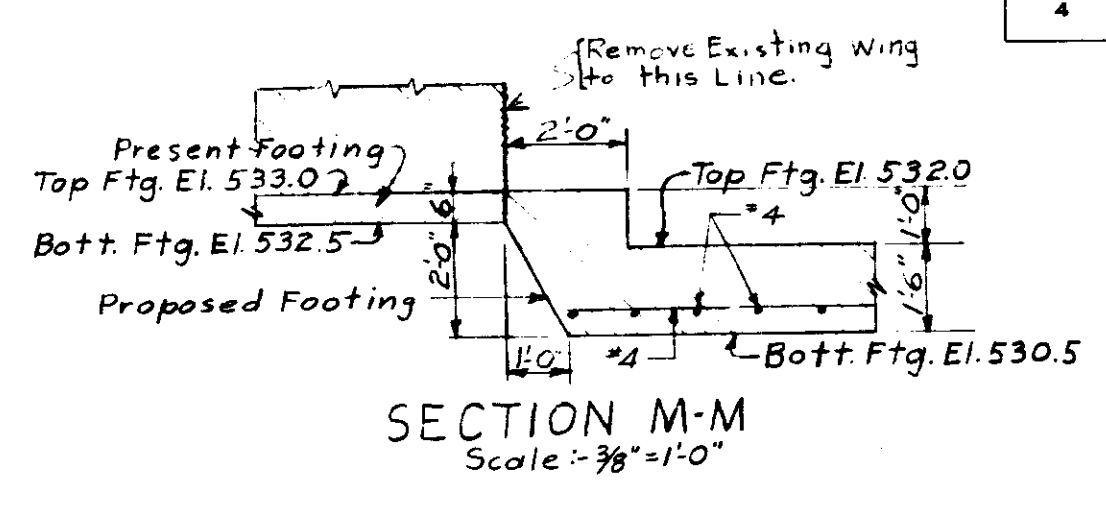
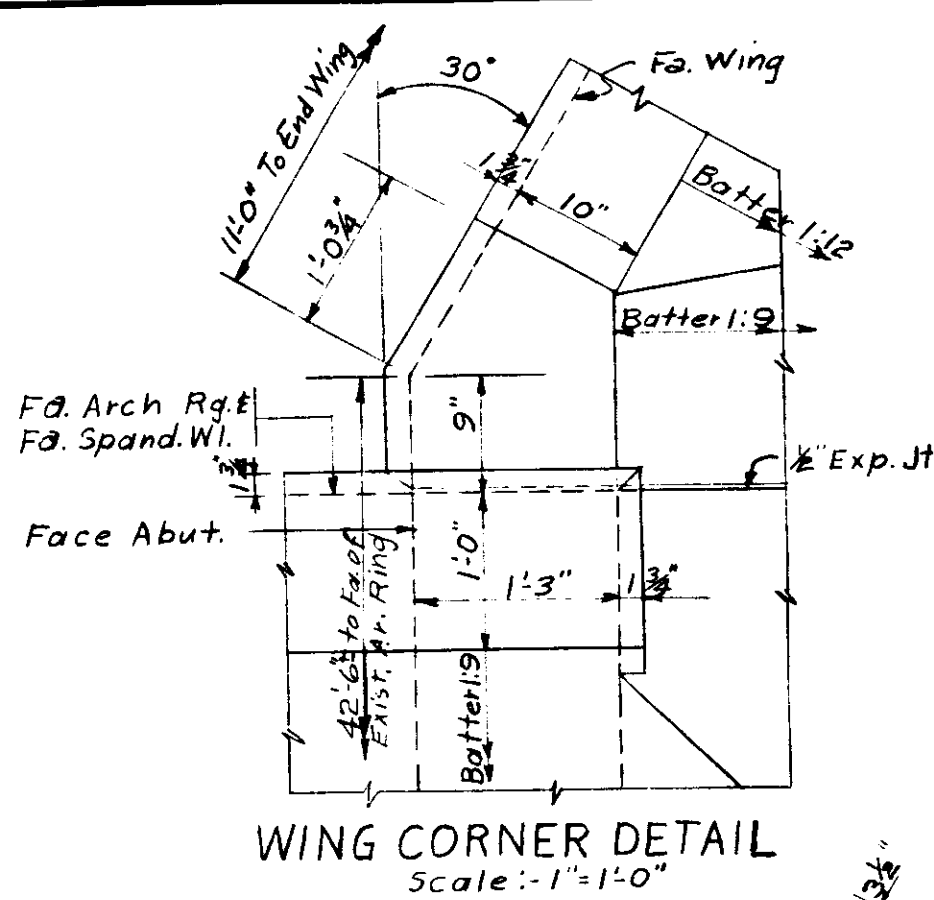
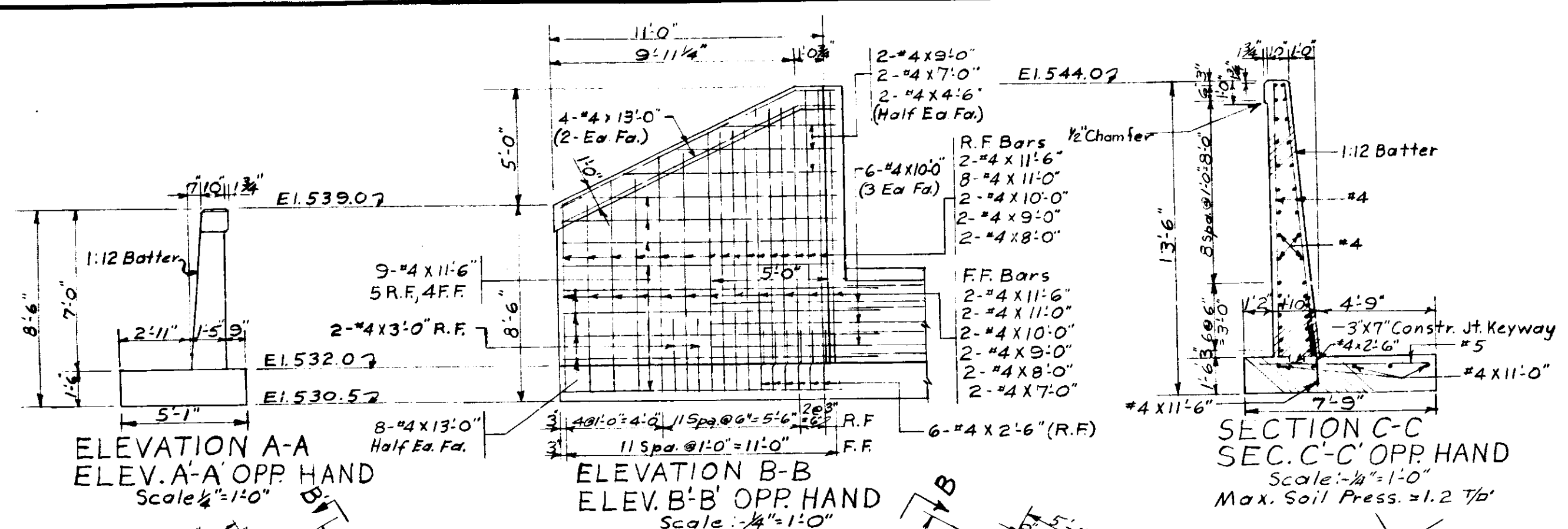
SCALE: - 1/8" = 1'-0" Unless Noted FEBRUARY 15, 1963

RECOMMENDED FOR APPROVAL: *C.R. Hummer*  
 ENGINEER OF BRIDGE DESIGN

DRAWING: C1 OF 4  
 PROJECT: S-705(2) BRIDGE CONTRACT NO. 124 + 33  
 BRIDGE FILE: -

DESIGNED: PWP/2/1762 CKD 26N/12/19/62  
 DRAWN: PWP/12/21/62 CKD/ARC/12/27/62  
 TRACED: CKD

BRIDGES OVER 20' SPAN					
STATE ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	5-705(2)	1963	33	150



**GENERAL NOTES**  
 See Br. Std. C1 for reinforcing bar notes.  
 See Drwg. C4 for additional pier details.

**INDIANA STATE HIGHWAY COMMISSION**

SCALE: - AS NOTED  
 FEBRUARY 15, 1963  
 RECOMMENDED FOR APPROVAL: *C.R. Rummel*  
 DRAWING: C2 OF 4  
 PROJECT: 5-705(2)  
 BRIDGE CONTRACT NO.  
 BRIDGE FILE: -

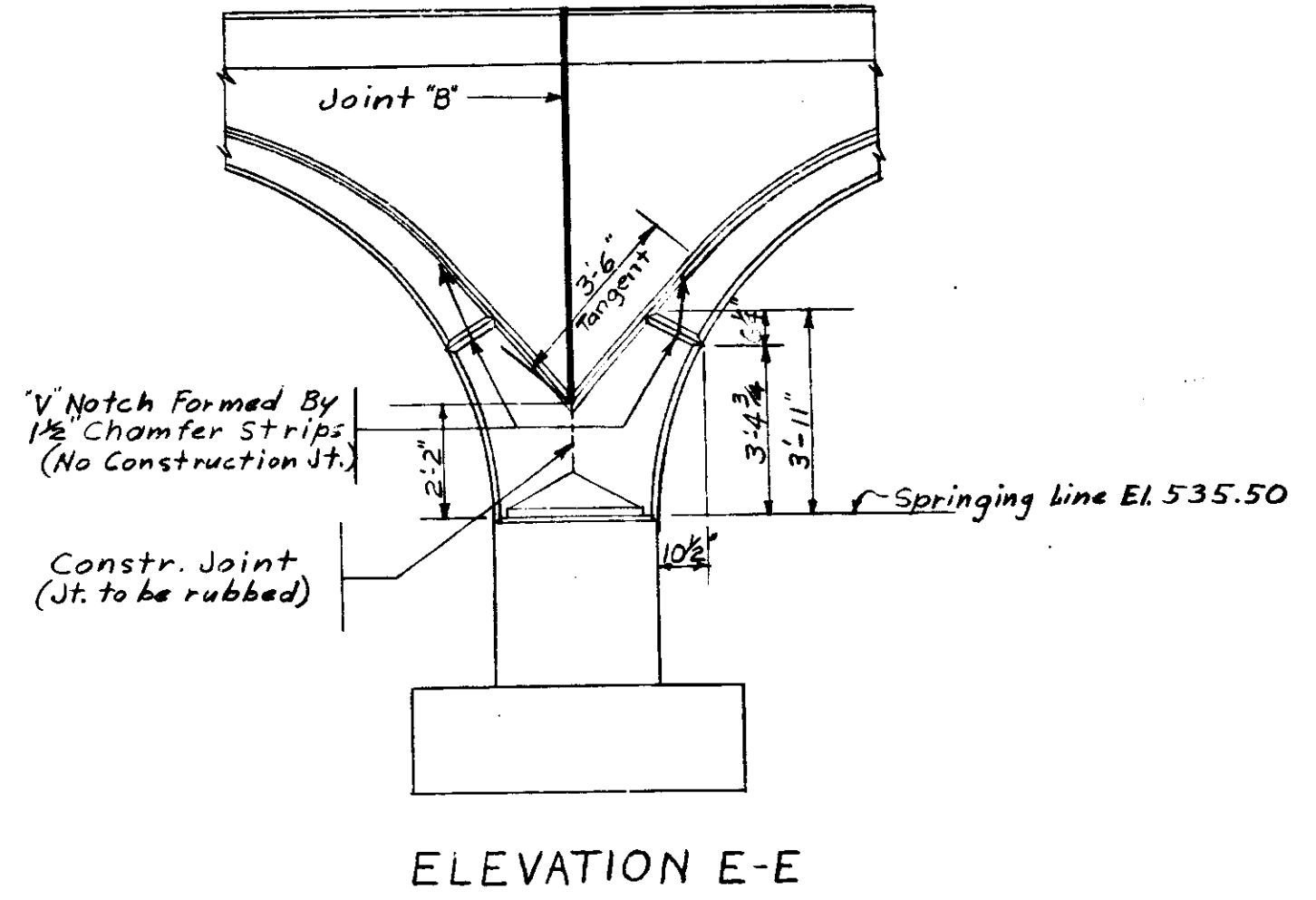
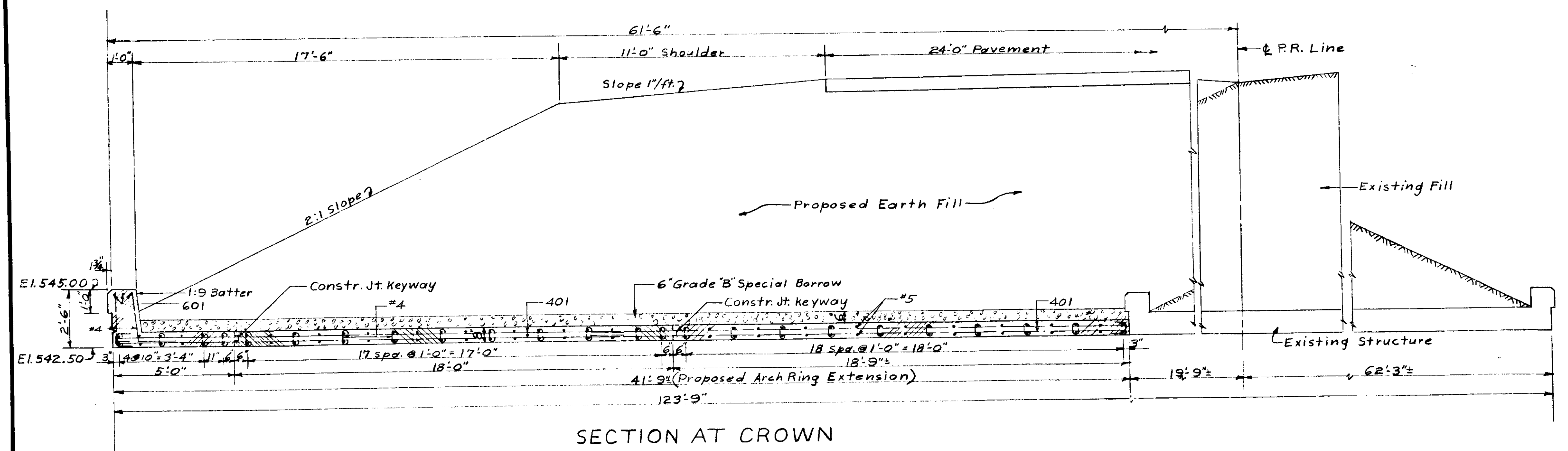
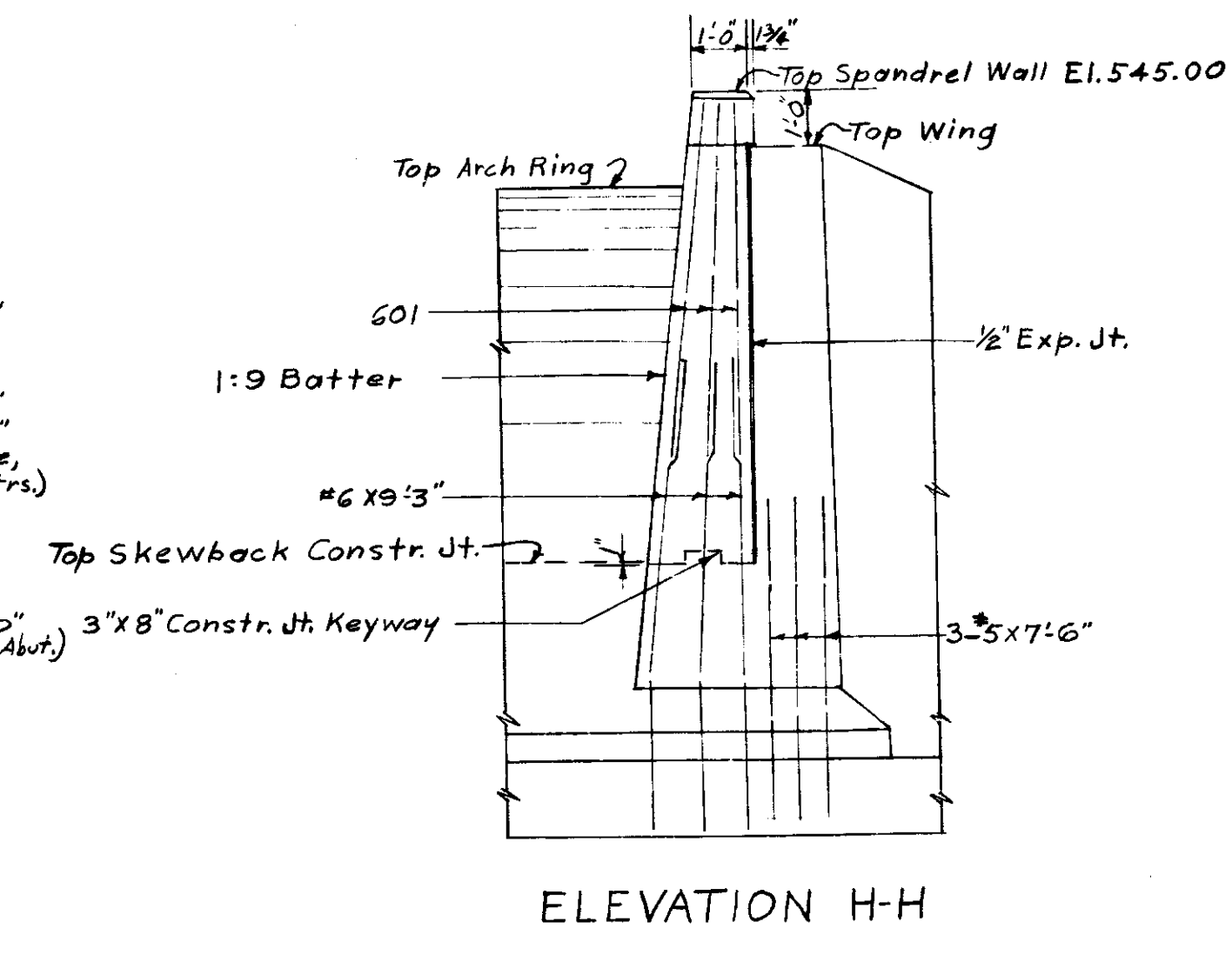
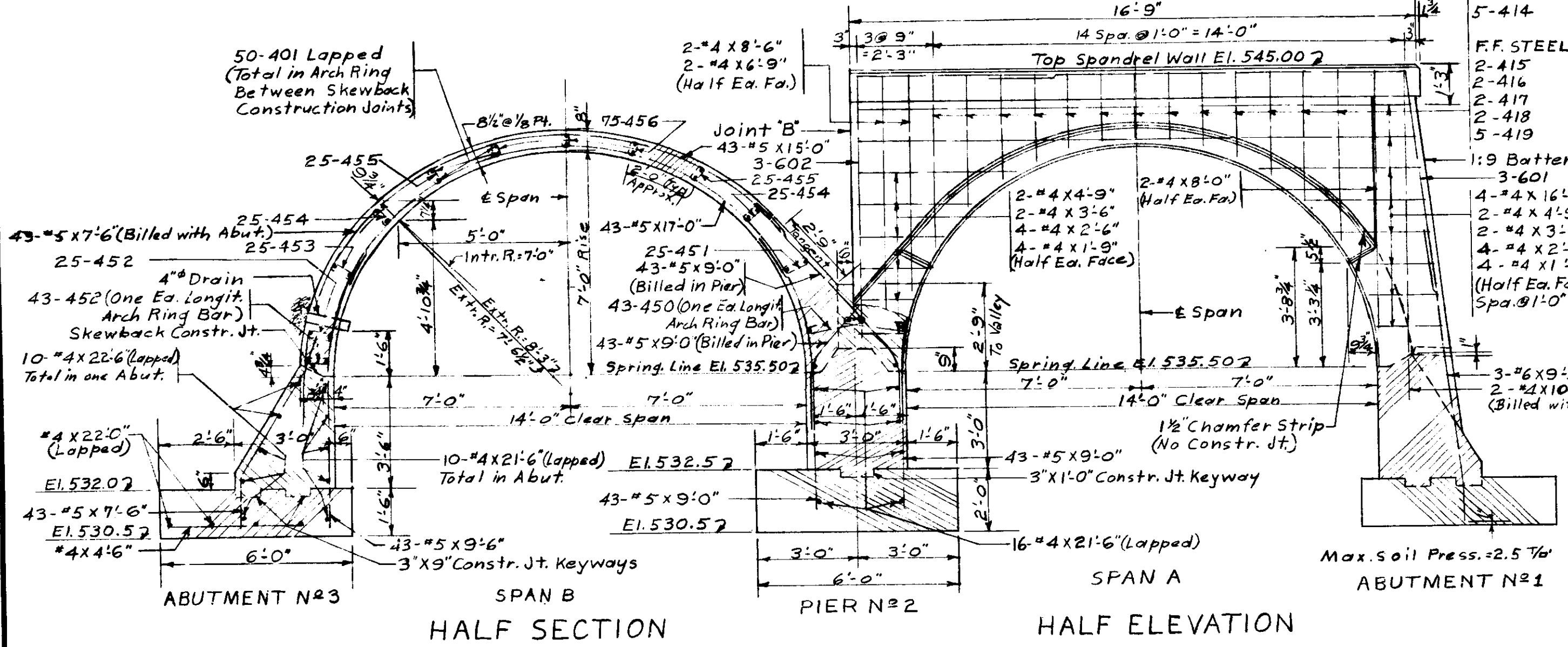
DESIGNED: P.N.P. 2/2/62  
 DRAWING: G.W. 1/13/63, C.K.D. P.N.P. 1-8-63  
 TRACED: C.K.D.



BRIDGES OVER 20' SPAN					
PUB. ROAD DIST. NO.	STATE	PROJECT NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
4	IND.	S-705(2)	1963	35	150

NOTE:- Arch ring stirrups to be staggered on longitudinal direction bars except as noted. (See Drwg. C2)

NOTE:- All Dimensions to Arch Ring are either parallel or perpendicular to springing line.



GEN. NOTES:- See Drwg. C2 for Location of Sections.  
 See Br. Std. C1 for Reinforcing Bar Notes.  
 See Drwg. C1 for Joint Legend.  
 See Drwg. C4 for waterproofing details at juncture with Present Structure.  
 See Br. Std. C2 for Waterproofing and Copper Flashing Details.

DETAILS  
 INDIANA STATE HIGHWAY COMMISSION

SCALE:- 3/8" = 1'-0" FEBRUARY 15, 1963

RECOMMENDED FOR APPROVAL: *C. R. ...*

DRAWING:- C3 OF 4  
 PROJECT:- S-705(2)  
 BRIDGE CONTRACT NO.  
 BRIDGE FILE:-

DESIGNED BY P.P. ...  
 DRAWN BY ...  
 TRACED BY ...

BRIDGES OVER 20' SPAN				
PIE ROAD RES. NO.	STATE	PROJECT NO.	FISCAL YEAR	TOTAL SHEETS
4	IND.	5-705(2)	1963	3738 150

**BILLS OF MATERIALS**

**ABUT. NO. 1 (ABUT. NO. 3 SAME)**

REINFORCING STEEL			
SIZE MARK	NO. BARS	LENGTH	WEIGHT (LBS)
#6	3	9'-3"	42*
#5	43	9'-6"	
#5	89	7'-6"	
#5	14	6'-0"	
#5	6	5'-3"	
#5	3	4'-6"	
Total No. 5*			1,257*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "E"	FOOTING		19.6 Cys
Class "E"	ABOVE FTG.		8.2 Cys
	Inner Pour		8.1 Cys
	Outer Pour		16.3 Cys
Total			42.1 Cys

MISCELLANEOUS			
MARK	DESCRIPTION	AMOUNT	WEIGHT (LBS)
402	4# Drains (Steel Boiler)		17.9 Cys
403	Tubing - 6.286"/ft.		8.7 Cys
404	4 @ 3'-3"		8.9 Cys
405	12oz. Soft Copper		17.6 Cys
Total			33.1*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "D"	Inner Pour (18" wide)		14.6 Cys
	Middle Pour (18" wide)		14.0 Cys
	Outer Pour (18" wide)		4.0 Cys
	Spandrel Wall		3.2 Cys
Total			35.8 Cys

**PIER NO. 2**

REINFORCING STEEL			
SIZE MARK	NO. BARS	LENGTH	WEIGHT (LBS)
#5	4	7'-6"	
#4	16	21'-6"	
#4	5	5'-0"	
Total No. 4*			267*
Total Steel			1,882*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "E"	FOOTING		19.6 Cys
Class "E"	ABOVE FTG.		8.2 Cys
	Inner Pour		8.1 Cys
	Outer Pour		16.3 Cys
Total			42.1 Cys

MISCELLANEOUS			
MARK	DESCRIPTION	AMOUNT	WEIGHT (LBS)
406	4# Drains (Steel Boiler)		17.9 Cys
407	Tubing - 6.286"/ft.		8.7 Cys
408	4 @ 3'-3"		8.9 Cys
409	12oz. Soft Copper		17.6 Cys
Total			33.1*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "D"	Inner Pour (18" wide)		14.6 Cys
	Middle Pour (18" wide)		14.0 Cys
	Outer Pour (18" wide)		4.0 Cys
	Spandrel Wall		3.2 Cys
Total			35.8 Cys

**SPAN 'A' (SPAN 'B' SAME)**

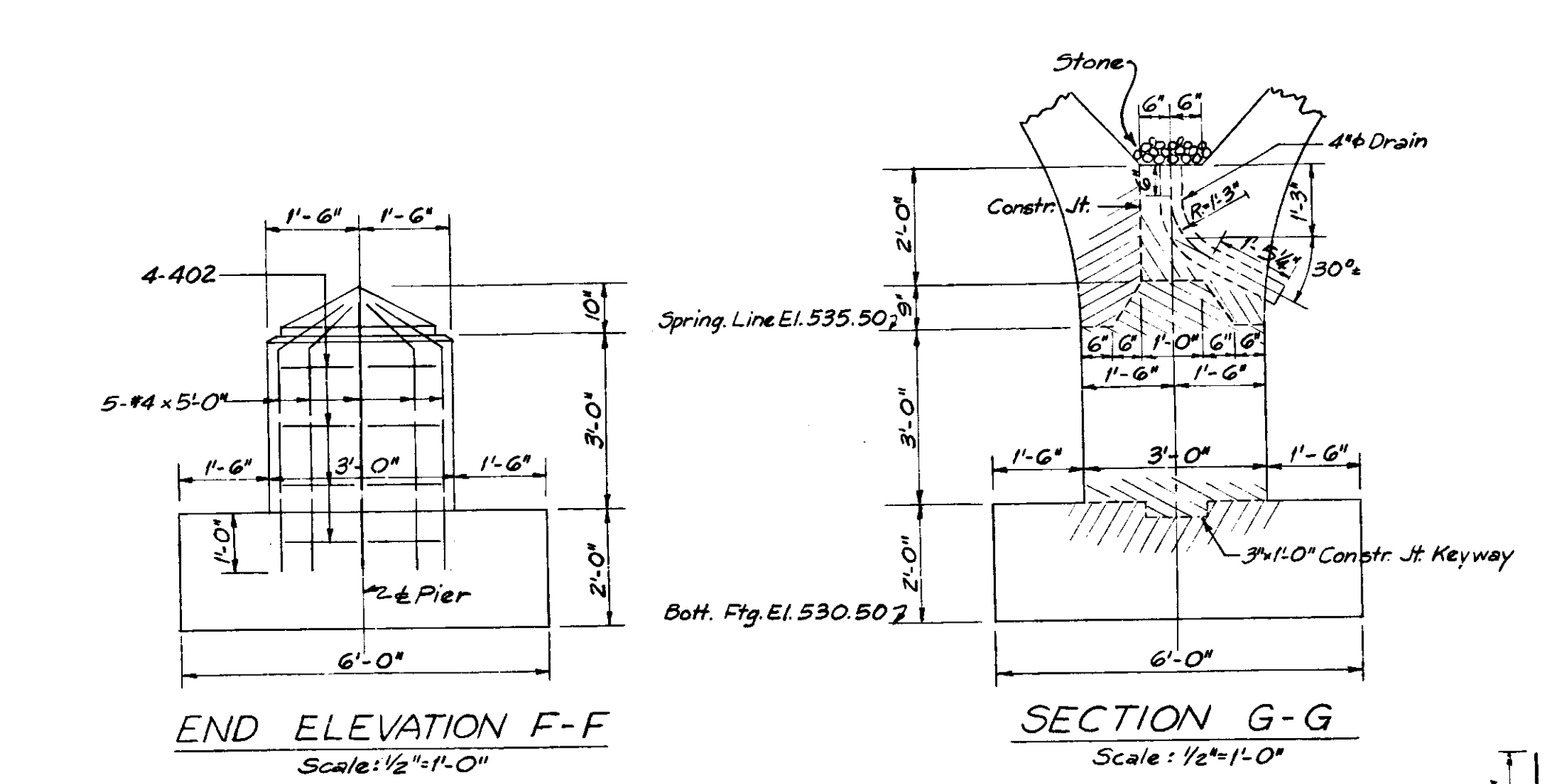
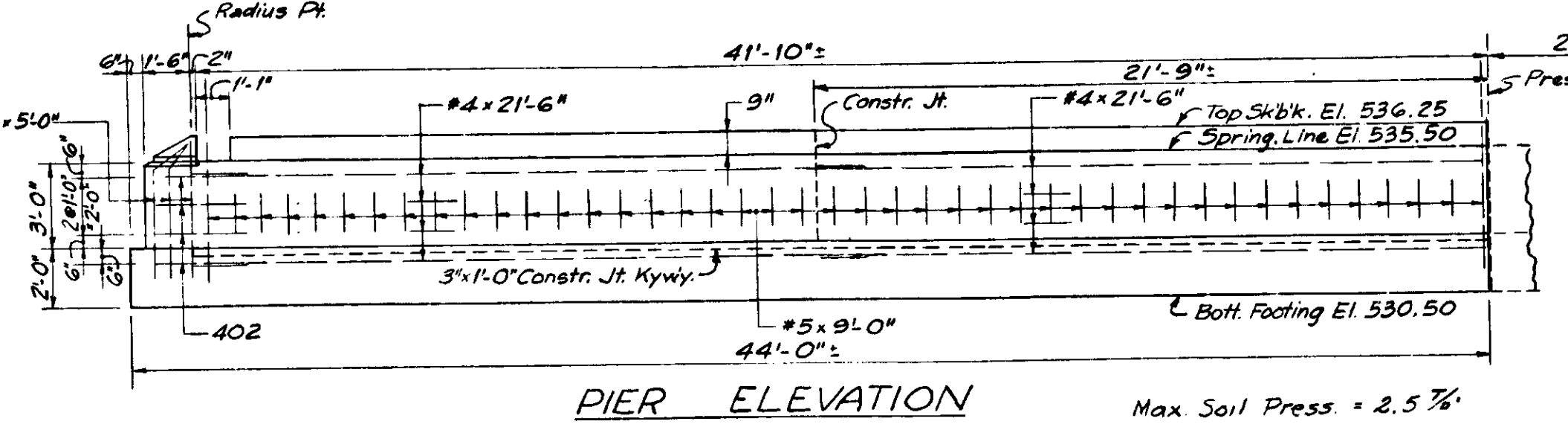
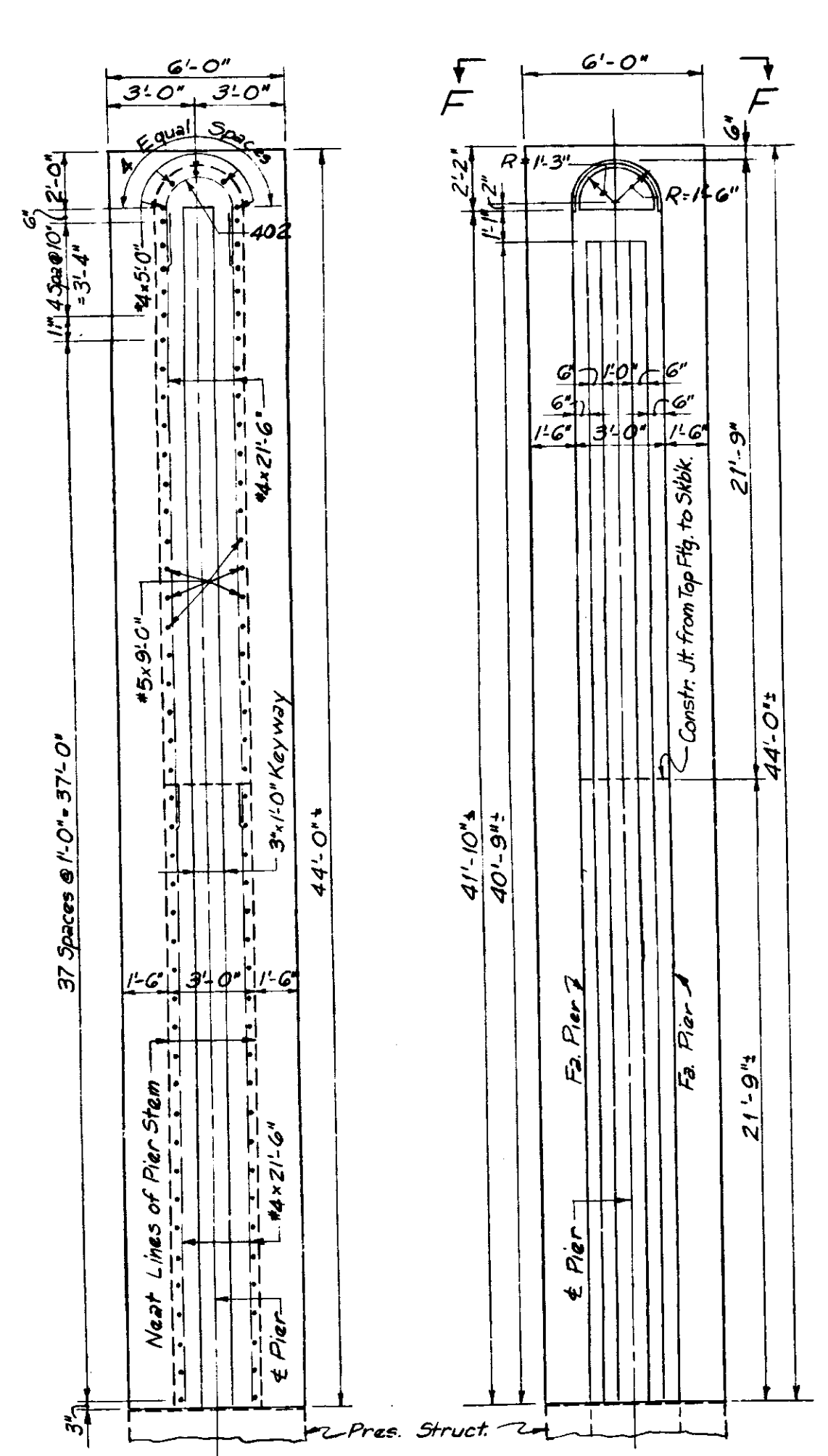
REINFORCING STEEL			
SIZE MARK	NO. BARS	LENGTH	WEIGHT (LBS)
G01	3	19'-3"	
G02	3	14'-6"	
Total No. 6*			152*
#5	43	17'-0"	
#5	43	15'-0"	
Total No. 5*			1,435*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "D"	Inner Pour (18" wide)		14.6 Cys
	Middle Pour (18" wide)		14.0 Cys
	Outer Pour (18" wide)		4.0 Cys
	Spandrel Wall		3.2 Cys
Total			35.8 Cys

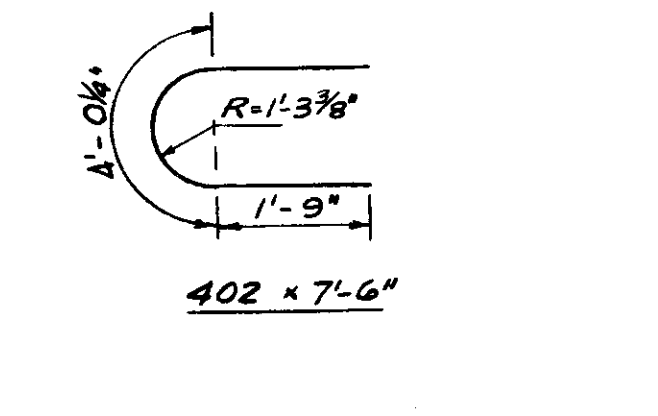
MISCELLANEOUS			
MARK	DESCRIPTION	AMOUNT	WEIGHT (LBS)
410	50	22'-0"	
411	2	6'-0"	
412	2	5'-0"	
413	2	4'-3"	
414	2	3'-9"	
415	5	3'-3"	
416	2	6'-0"	
417	2	4'-6"	
418	2	3'-9"	
419	5	2'-9"	
420	43	2'-7"	
421	25	1'-10"	
422	68	1'-6"	
423	25	1'-5"	
424	50	1'-3"	
425	50	1'-0"	
426	75	1'-7"	
427	2	10'-6"	
428	2	8'-6"	
429	2	8'-0"	
430	2	6'-9"	
431	4	4'-9"	
432	4	3'-6"	
433	8	2'-6"	
434	8	1'-9"	
Total No. 4*			1,242*

CONCRETE			
CLASS	DESCRIPTION	AMOUNT	WEIGHT (CY)
Class "D"	Inner Pour (18" wide)		14.6 Cys
	Middle Pour (18" wide)		14.0 Cys
	Outer Pour (18" wide)		4.0 Cys
	Spandrel Wall		3.2 Cys
Total			35.8 Cys

Grade "B" Spec. Borrow (Fa. to Fa. Abuts) = 95 Cys  
 Earth Fill (Fa. to Fa. Abuts) = 400 Cys

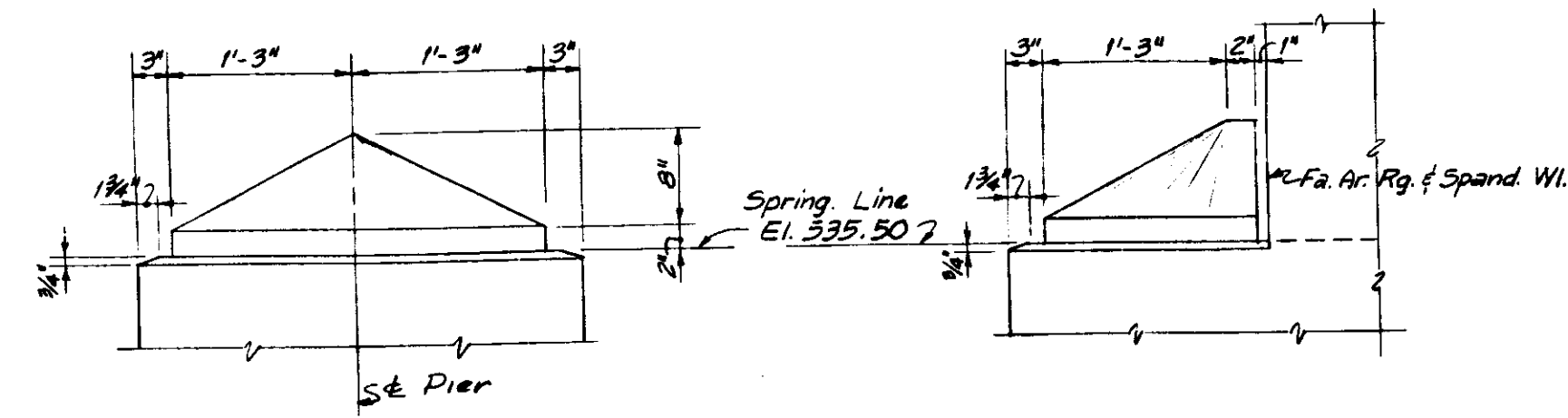


MARK	"A"	"B"	LENGTH
G02	6'-0"	8'-6"	14'-6"
G15	6"	5'-6"	6'-0"
G16	6"	4'-0"	4'-6"
G17	6"	3'-3"	3'-9"
G18	6"	2'-9"	3'-3"
G19	6"	2'-3"	2'-9"

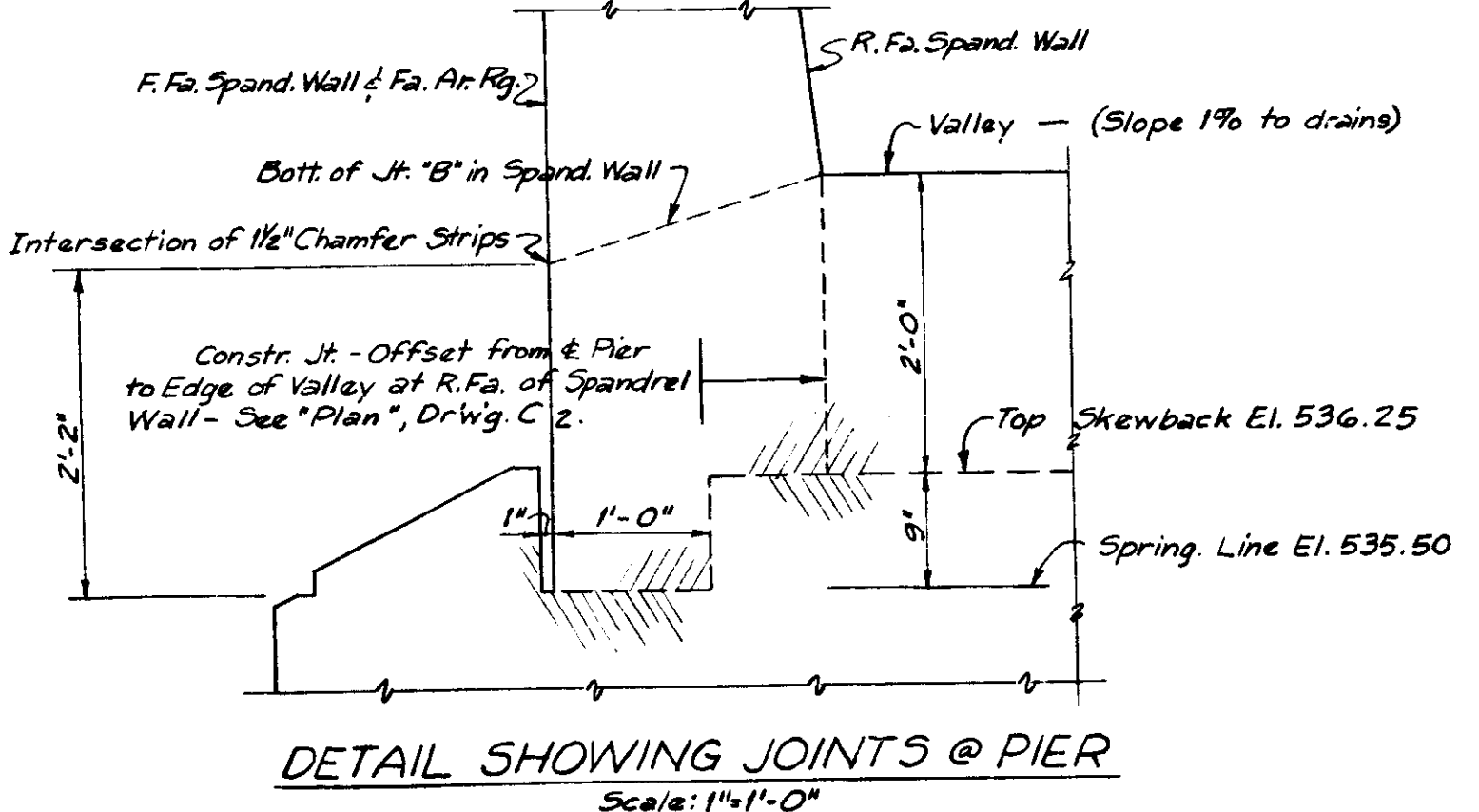


**PIER FOOTING PLAN**  
 (SHOWING VERT. STEEL EXTENDING OUT OF FOOTING.)

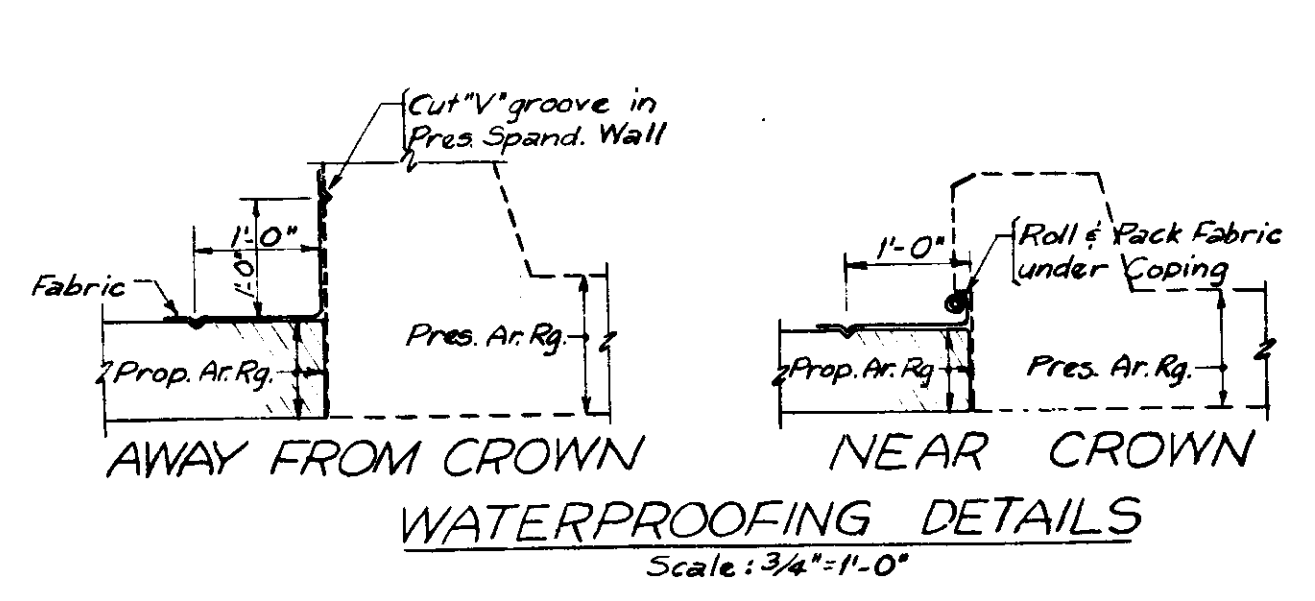
**PIER PLAN**  
 (ARCH RG. & SPAND. WL. REMOVED.)



**COCKED HAT DETAILS**  
 Scale: 1"=1'-0"



**DETAIL SHOWING JOINTS @ PIER**  
 Scale: 1"=1'-0"



**WATERPROOFING DETAILS**  
 Scale: 3/4"=1'-0"

GENERAL NOTES:  
 See Br. Std. C1 for Reinforcing Bar Notes.  
 See Drwg. C2 for location of Sect. G-G.

**INDIANA STATE HIGHWAY COMMISSION**

SCALE: 1/4"=1'-0" (Unless Noted) FEBRUARY 15, 1963  
 RECOMMENDED FOR APPROVAL: [Signature]  
 DRAWING: C4 OF 4  
 PROJECT: S-705(2)  
 BRIDGE CONTRACT NO.  
 BRIDGE FILE:

DESIGNED: PNP:R17:62:KCD:SK:12-21-62  
 DRAWN: PNP:1-15-63:CKD:DW:1-28-63  
 TRACED: CKD



# ESTIMATE OF QUANTITIES

REV. 11-4-64 Approach & Pipe  
 S705 (2) 1963 40  
 REV. 11-9-64  
 REV. 8-25-66 Group "A" Pipe 15"

GRADING			PAVEMENT			MISCELLANEOUS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
CLEARING RIGHT-OF-WAY			CEMENT CONCRETE BASE (")	SYS		6 INCH HAND LAID RIPRAP	SYS	
LINEAR GRADING	MILE		CEMENT CONCRETE BASE (")	S/S		2 INCH HAND LAID RIPRAP	SYS	
COMMON EXCAVATION	CYS	89,711	H.E.S. CEMENT CONCRETE BASE	SYS		GRADED RIPRAP	SYS	
SOLID ROCK EXCAVATION	CYS		H.E.S. CEMENT CONCRETE BASE	SYS		PLACING HAND LAID RIPRAP 6"	SYS	
WATERWAY EXCAVATION	CYS		H.E.S. CEMENT CONCRETE BASE	SYS		PLACING HAND LAID RIPRAP 12"	SYS	
CLASS "Y" EXCAVATION	CYS					PRECAST CONCRETE RIPRAP	SYS	
WET EXCAVATION	CYS	210	CONCRETE PATCHES	SYS	270	SLOPEWALL	SYS	
UNCLASSIFIED EXCAVATION	CYS		CLASS I CONCRETE PATCHES	SYS		CONCRETE SLOPEWALL (A')	SYS	50
SPECIAL BORROW	CYS		CLASS II CONCRETE PATCHES	SYS		STANDARD LIP GUTTER	LFT	
OVERHAUL	CYS	4,565	CLASS III CONCRETE PATCHES	SYS		PAVED SIDE DITCH, TYPE "A"	LFT	6,198
ADDED HAUL	UNITS	12,452	CLASS IV CONCRETE PATCHES	SYS		PAVED SIDE DITCH, TYPE "B"	LFT	1,545
			BITUMINOUS MIXTURE FOR PATCHES	TON		PAVED SIDE DITCH, TYPE "C"	LFT	200
			CLASS I BITUMINOUS PATCHES	TON		PAVED SIDE DITCH, TYPE "D"	LFT	200
			CLASS II BITUMINOUS PATCHES	TON		PAVED SIDE DITCH, TYPE "E"	LFT	
			CLASS III BITUMINOUS PATCHES	TON		INTEGRAL CONCRETE CURB	LFT	
			CLASS IV BITUMINOUS PATCHES	TON		INTEGRAL CONCRETE CURB TYPE "B"	LFT	
PEAT EXCAVATION	CYS		HOT ASPHALTIC CONCRETE	TON		INTEGRAL CONCRETE CURB TYPE "C"	LFT	
PEAT EXCAVATION 15 TO 25 FT	CYS		BASE WIDENING	TON	1,916	Spec. Conc. Curb Type "B"	LFT	1,787
PEAT EXCAVATION 25 TO 35 FT	CYS		HOT A.E. BASE WIDENING (1)	TON		CONCRETE CURB	LFT	394
SURCHARGE 4'	LFT		BITUMINOUS COATED AGGREGATE BASE WIDENING	TON		CONCRETE CURB TYPE "B"	LFT	
SURCHARGE 4'-8"	LFT		CONCRETE WIDENING	SYS		BITUMINOUS CURB	LFT	1,668
SURCHARGE 8'-12"	LFT		FILLING CRACKS AND JOINTS	TON	1.3	CONCRETE GUTTER	LFT	
SURCHARGE 12'-16"	LFT		BITUMINOUS MATERIAL FOR UNDERSEAL	TON	141	COMBINED CONCRETE CURB AND GUTTER	LFT	
SURCHARGE 16'-20"	LFT		DRILLING HOLES	EACH	2,240	RECONSTRUCTED CONCRETE CURB	LFT	
SURCHARGE 20'-24"	LFT		SUBBASE TYPE II	CYS	15,692	RECONSTRUCTED COMBINED CONCRETE CURB AND GUTTER	LFT	
MACHINE OPERATION	HRS		SUBBASE TYPE I OR II	CYS		RESET CURB	LFT	
MACHINE AVAILABILITY	LFT		SALVAGED ROAD MATERIAL FOR SUBBASE	CYS		CONCRETE CENTER CURB, TYPE "A"	SYS	607
2" CAGED TEST HOLE	LFT		BITUMINOUS COATED AGGREGATE (DENSE GRADED)	TON	29,455	SPECIAL CONCRETE CENTER CURB, TYPE "A"	SYS	187
4" CAGED TEST HOLE	LFT		TYPE "P" COMPACTED AGGREGATE BASE (2)(3)	TON	64,573	SPECIAL CONCRETE CENTER CURB TYPE "B"	SYS	172
6" CAGED TEST HOLE	LFT		TYPE "C" COMPACTED AGGREGATE SURFACE	TON		SPECIAL CONCRETE CENTER CURB TYPE "C"	SYS	136
2" CAGED DYNAMITE HOLES	LFT		TYPE "D" COMPACTED AGGREGATE SHOULDER	TON		SPECIAL CONCRETE CENTER CURB TYPE "G-2"	SYS	107
4" CAGED DYNAMITE HOLES	LFT		PURE CALCIUM CHLORIDE FOR SHOULDERS	TON	48.8	BITUMINOUS CENTER CURB, TYPE " "	SYS	
6" CAGED DYNAMITE HOLES	LFT		HOT ASPHALTIC CONCRETE BASE	TON		STRAIGHT BEAM GUARD RAIL	LFT	8,220
GRADE "B" SPECIAL BORROW	CYS	617	HOT ASPHALTIC CONCRETE BINDER	TON		DOUBLE-FACE STRAIGHT BEAM GUARD RAIL	LFT	4,110
			HOT ASPHALTIC CONCRETE BINDER FOR WEDGE AND LEVELING	TON		SHOP-CURVED TEAM GUARD RAIL	LFT	
			HOT ASPHALTIC CONCRETE SURFACE, TYPE " "	TON		SHOP-CURVED DOUBLE-FACE GUARD RAIL	LFT	
			HOT A.E. BASE	TON	26,941	RESET WIRE-ROPE GUARD RAIL	LFT	
			HOT A.E. BINDER	TON		RESPLITTING GUARD RAIL GUARD RAIL POST	EACH	
			HOT A.E. BINDER FOR WEDGE AND LEVELING	TON	424	WIRE-ROPE GUARD RAIL GUARD RAIL	LFT	
			HOT A.E. SURFACE, TYPE "IV"	TON	3,615	GUARD FENCE	LFT	
			BITUMINOUS COATED AGGREGATE BASE	TON		RESET GUARD FENCE	LFT	
			BITUMINOUS COATED AGGREGATE BINDER	TON		FENCE (FARM FIELD TYPE)	LFT	313
			BITUMINOUS COATED AGGREGATE BINDER FOR WEDGE AND LEVELING	TON		FENCE (CHAIN LINK TYPE)	LFT	
			BITUMINOUS COATED AGGREGATE SURFACE	TON		FENCE (BARBED WIRE)	LFT	
			MIXTURE FOR BITUMINOUS SHOULDER	TON		GATES (SINGLE)	EACH	
			BITUMINOUS MATERIAL APPLIED, PRIME	TON	242	GATES (DOUBLE)	EACH	
			BITUMINOUS MATERIAL APPLIED, TACK COAT	TON	23	RESETTING FARM FIELD TYPE FENCE	LFT	
			BITUMINOUS MATERIAL APPLIED, SEAL	TON	128	RESETTING CHAIN LINK TYPE FENCE	LFT	
			COVERING AGGREGATE	TON	1,302	GUIDE POST TYPE "A"	EACH	94
			AGGREGATE FOR SHOULDER DRAINS	TON		GUIDE POST TYPE "B"	EACH	24
						RESET GUIDE POST	EACH	
						DELINEATORS TYPE " "	EACH	
						DELINEATORS TYPE " "	EACH	
						DELINEATORS TYPE " "	EACH	
						DELINEATORS TYPE " "	EACH	
						BARRICADES TYPE "A"	EACH	5
						BARRICADES TYPE "B"	EACH	5
						PERMANENT BARRICADES	EACH	
						TYPE "A"	EACH	
						PERMANENT BARRICADES	EACH	
						TYPE "B"	EACH	
						TYPICAL SIGN STANDARDS	EACH	35
						STANDARD SIGNS	EACH	

MISCELLANEOUS			MISCELLANEOUS			MISCELLANEOUS		
ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY	ITEM	UNIT	QUANTITY
CONCRETE HEIDER, TYPE "A"	LFT		CONDUIT	LFT		CONDUIT	LFT	
CONCRETE HEIDER, TYPE "B"	LFT		HAND HOLE FOR STREET AND ALLEY	EACH		HAND HOLE FOR SIDEWALK	EACH	
RECONSTRUCTED CONCRETE HEIDER	LFT		PEDESTAL FOUNDATION, TYPE "A"	EACH		PEDESTAL FOUNDATION, TYPE "B"	EACH	
CEMENT CONCRETE SIDEWALK	SYS		STEEL POLE FOUNDATION, TYPE "A"	EACH		STEEL POLE FOUNDATION, TYPE "B"	EACH	
"EXPANSION JOINT FOR SIDEWALK"	LFT		CROSSWALK	SYS		SOILING	SYS	16,172
RIGHT-OF-WAY MARKERS	EACH	63	RIGHT-OF-WAY MARKERS	EACH	24	FURNISHING AND PLACING AGRICULTURAL LIME/TONE	TON	42
RESET RIGHT-OF-WAY MARKERS	EACH		MONUMENTS, TYPE " "	EACH		FURNISHING AND PLACING FERTILIZER	TON	6.3
MONUMENTS, TYPE " "	EACH		MONUMENTS, TYPE "B"	EACH		FURNISHING AND PLACING SEED	LB	146.4
MONUMENTS, RE-ESTABLISHED	EACH	3	CASTINGS ADJUSTED TO GRADE	EACH		MULCHING MATERIAL	TON	50
CASTINGS ADJUSTED TO GRADE	EACH		BENCH MARK POST	EACH		MULCHED SEEDING	SYS	
BENCH MARK POST	EACH		RESETTING BENCH MARK POST	EACH		STEEL FOR RECONSTRUCTED EXPANSION JOINT	LB	
RESETTING BENCH MARK POST	EACH		RAILROAD CROSSBUCK SIGN, TYPE "A"	EACH		FILE WELD	LFT	
RAILROAD CROSSBUCK SIGN, TYPE "A"	EACH		RAILROAD CROSSBUCK SIGN, TYPE "B"	EACH		AGRICULTURAL OATS	LB	318
RAILROAD CROSSBUCK SIGN, TYPE "B"	EACH		ADVANCE RAILROAD WARNING SIGN	EACH		AGRICULTURAL RYE	LB	497
ADVANCE RAILROAD WARNING SIGN	EACH					MAINTAINING TRAFFIC	LUMP	

STRUCTURE SUMMARY																					
KIND	SIZE	PIPE LINEAL FEET																			
		4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	
GAGE C.M. PIPE						16	16		16		14										
GAGE STRUCT. TOP & SIDES PLATES	BOTTOM					404	42		222		156										
GROUP A						424															
GROUP B																					
GROUP C																					
GROUP D																					
GROUP E																					
GROUP F																					
REINFORCED CONCRETE EXTRA STRENGTH REIN. CONC.										90	72									39	39
HEAVY DUTY REIN. CONC.																					
VERIFIED CLAY GULFET										20											
CORRUGATED METAL FULLY BITUM. COATED CORR. METAL																					
FULLY BITUM. COATED CORR. METAL WITH HAVED INVERT																					
SEWER						645	400	309	2242	176	21			48							
R.C. SEWER OR V.C. SEWER																					
R.C. SEWER OR CONC. SEWER																					
CONCRETE SEWER																					
REIN. CONC. SEWER																					
VIT. CLAY SEWER																					
DRAIN TILE						500	400	300													
FULLY BITUMINOUS COATED REPAIRED CORR. METAL																					
R.C. CONC. S.C.A. OR CONC. PIPE																					70

STRUCTURE SUMMARY (CONT)																					
KIND	SIZE	PIPE LINEAL FEET																			
		4"	6"	8"	10"	12"	15"	18"	21"	24"	30"	36"	42"	48"	54"	60"	66"	72"	78"	84"	
PIPE GROUP "F" FOR SUBSURFACE DRAINAGE 6"						30,040															
PIPE FULLY BIT COATED C.M. FOR SUBSURFACE DRAINAGE 6" (NON PERFORATED)									1,258												
AGGREGATE FOR SUBSURFACE DRAINAGE									3,130												

MANHOLES	TYPE	EACH	CATCH BASINS		INLETS		PIPE CATCH BASINS		RECONSTRUCTED		CASTINGS	
			TYPE	EACH	TYPE	EACH	SIZE	EACH	MANHOLE	LINEAL FEET	TYPE	QUANTITY
	C-5	1	E-7	32	A-1	2			CONCRETE CLASS "D" FOR STRUCTURE	452.8		
			A-1	2	A-9	3			REINFORCING STEEL FOR STRUCTURE	43,221		
			C-5	1					CONC. CLASS "E" FOR STRUCTURES (ARMS)	CYS	515	
									CONC. CLASS "E" FOR STRUCTURES (FOOTING)	56.4		
									CAST IRON FOR STRUCTURES	LB.	144	