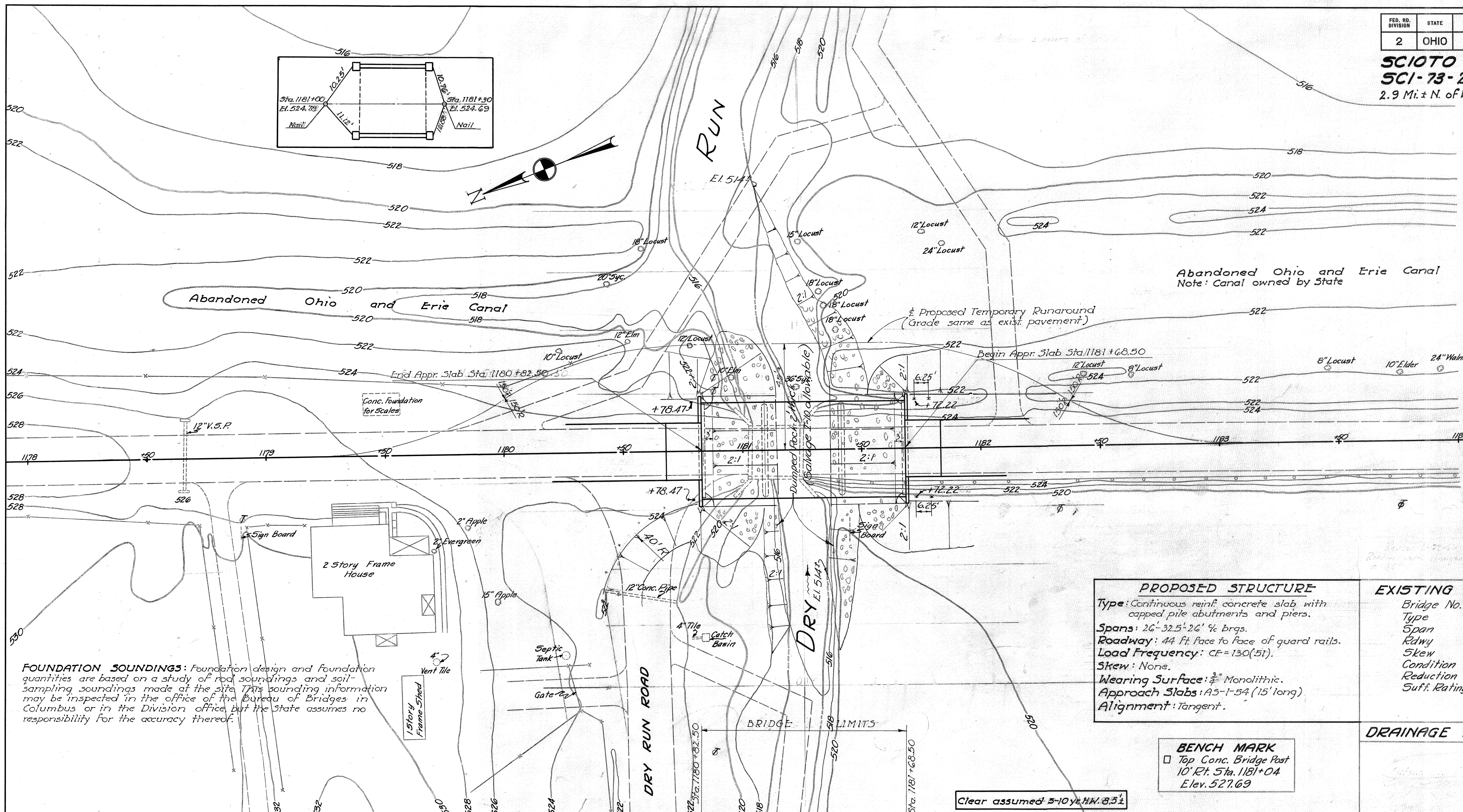
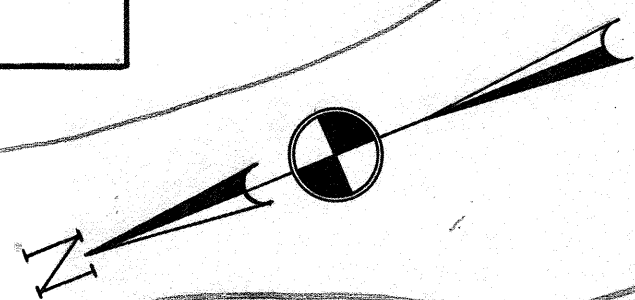
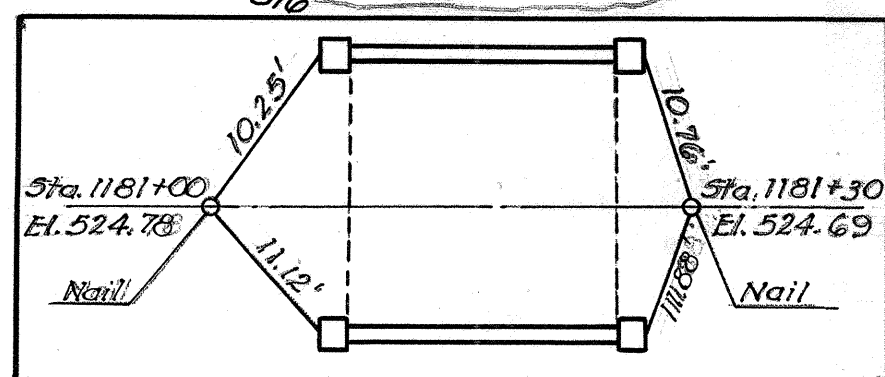


SCIOTO COUNTY
SCI-73-20.78
2.9 Mi. ± N. of West Portsmouth



PROPOSED STRUCTURE
 Type: Continuous reinf. concrete slab with capped pile abutments and piers.
 Spans: 26'-32.5'-26' 1/4 brgs.
 Roadway: 44 Ft. Face to Face of guard rails.
 Load Frequency: CF=130(51).
 Skew: None.
 Wearing Surface: 3/4" Monolithic.
 Approach Slabs: A5-1-54 (15' long)
 Alignment: Tangent.

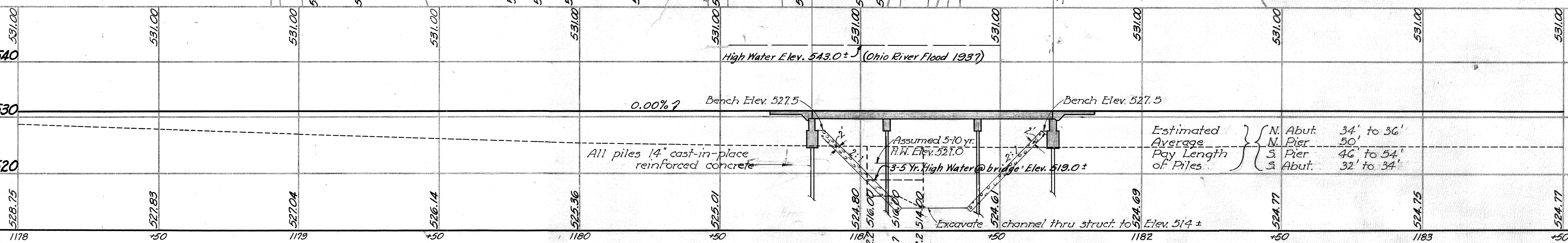
EXISTING BRIDGE DATA

Bridge No.	5C-73-2239
Type	Conc. Beam
Span	20'
Rdwy	19.2'
Skew	0°-00'
Condition	Fair
Reduction	None
Suff. Rating	58

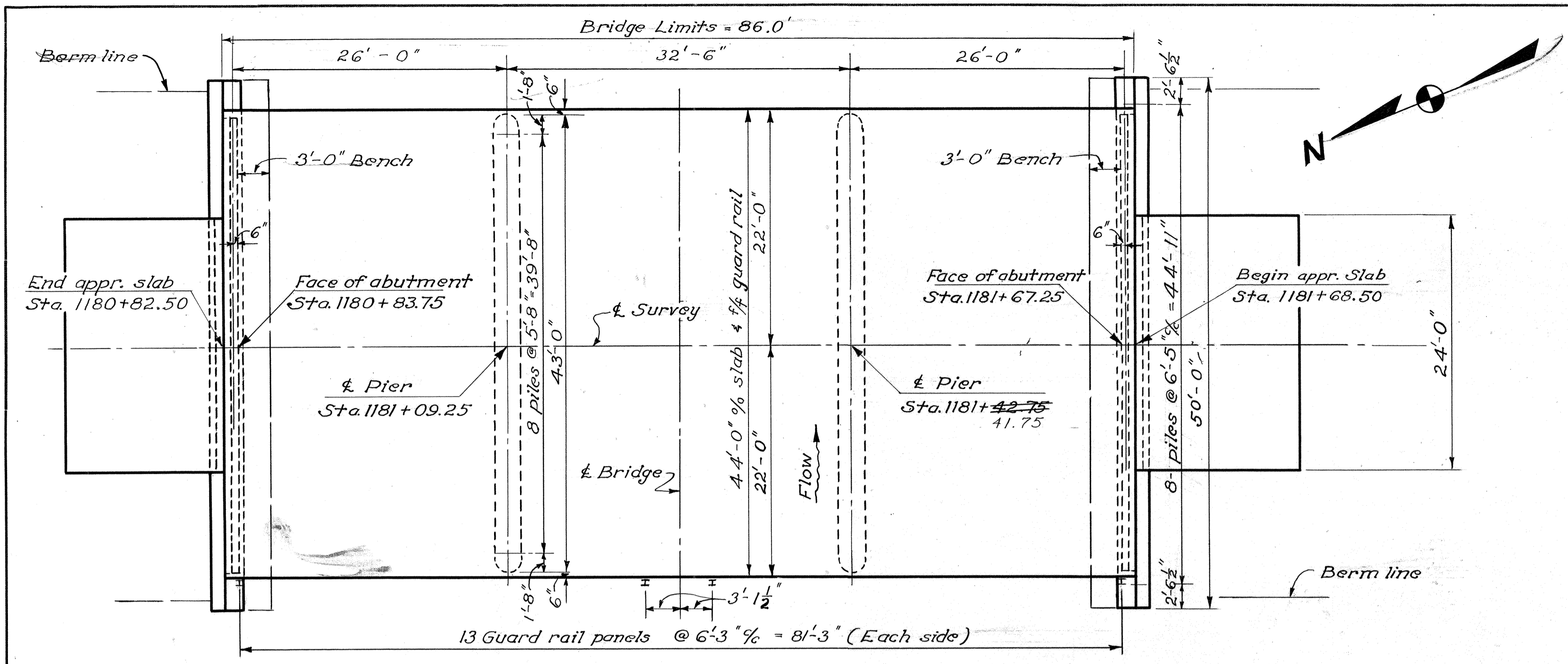
BENCH MARK
 □ Top Conc. Bridge Post
 10' Ft. Sta. 1181+04
 Elev. 527.69

DRAINAGE AREA = 4.6 Sq. Mi.

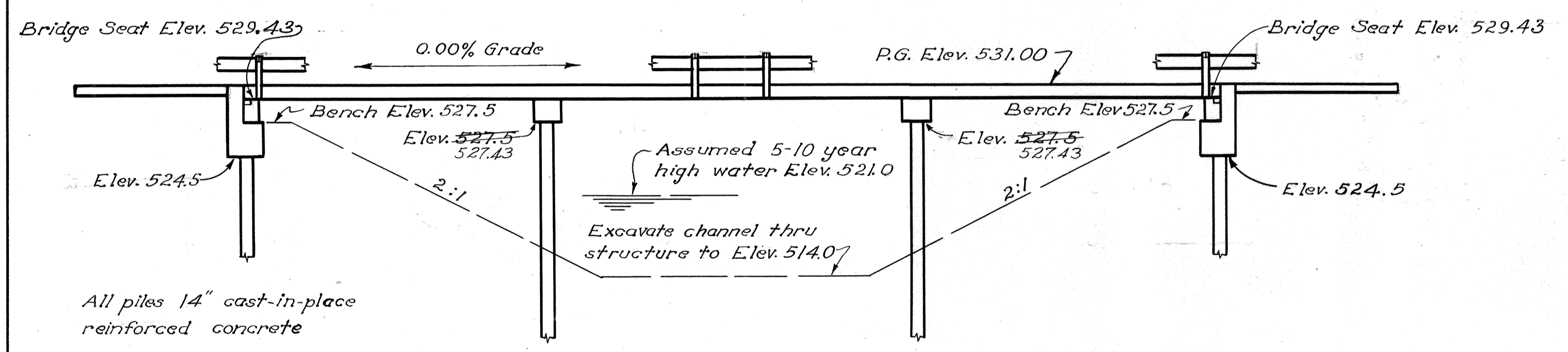
FOUNDATION SOUNDINGS: Foundation design and foundation quantities are based on a study of rod soundings and soil-sampling soundings made at the site. This sounding information may be inspected in the office of the Bureau of Bridges in Columbus or in the Division office, but the State assumes no responsibility for the accuracy thereof.



STATE OF OHIO DEPARTMENT OF HIGHWAYS BUREAU OF BRIDGES					
SITE PLAN					
BRIDGE NO.		SCI-73-2239			
OVER		DRY RUN			
SCIOTO CO.		S.R. 73			
		STA. 1180+82.50 1181+68.50			
SCALE 1" = 20'					
PRESENT TOPOGRAPHY			PROPOSED WORK		
SURVEYED	DRAWN	DESIGNED	DRAWN	CHECKED	REVIEWED
Barton	⊙	J.E.P.	J.E.P.	D.L.C.	P.E.S.
BFG Q. J. 7-6-56					



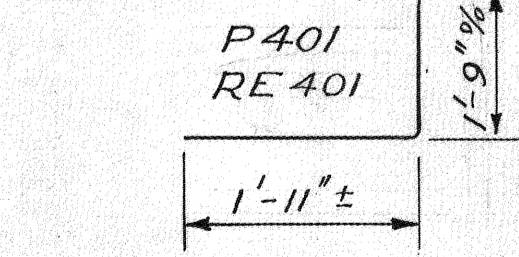
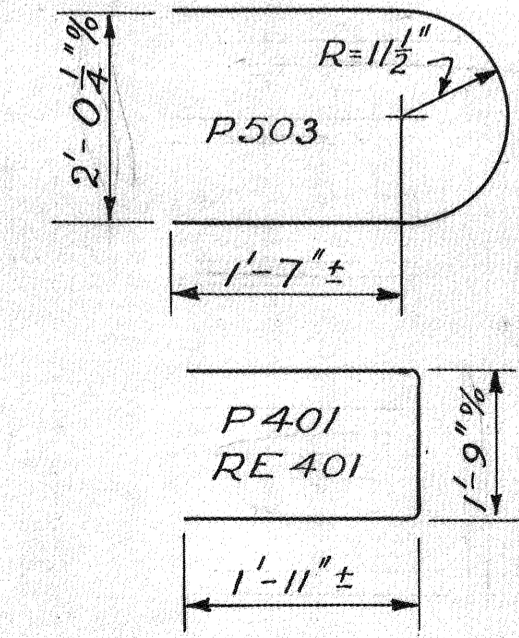
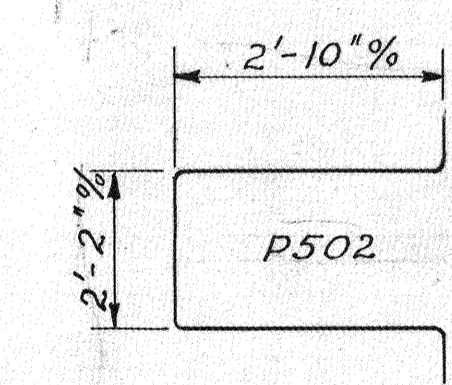
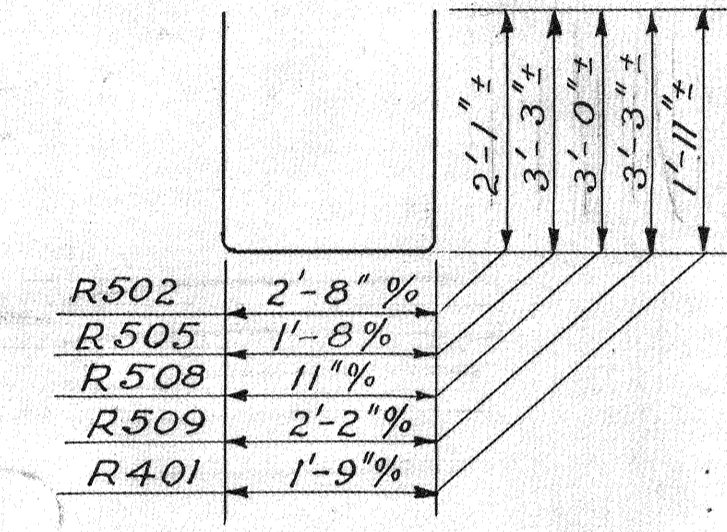
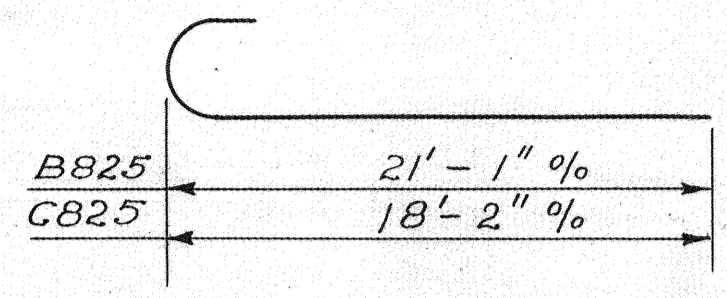
GENERAL PLAN



ELEVATION

ESTIMATED QUANTITIES							
Item	Total	Unit	Description	Superstr.	Piers	Abuts	Gen.
E-2	58	cu.yd.	Unclassified excavation			58	
E-3	590	cu.yd.	Channel excavation				590
S-1	179	cu.yd.	Class "C" concrete, superstructure and pier caps	144	16		
S-1	50	cu.yd.	Class "E" concrete, abutments			50	
S-4	47809	lb.	Reinforcing steel	37580	4476	5650	103
S-14	172	lin.ft.	Railing (Type I-15.13 with galvanized steel posts and bolts)	172			
S-15		sum	Temporary run-around bridge and approaches				lump
S-16		sum	First test pile				lump
S-18	1350	lin.ft.	14" cast-in-place reinforced concrete piles		800	550	
S-24		sum	Removal of existing structure				lump
S-29	18	cu.yd.	Porous backfill			18	
I-10	432	cu.yd.	Dumped rock fill				432

REINFORCING STEEL LIST				
Mark	No.	Length	Weight	Shp.
Superstructure				
A825	129	30'-3"	10,419	S
B825	42	22'-2"	2486	B
C825	42	19'-3"	2159	B
D825	21	20'-10"	1168	S
E825	21	15'-8"	878	S
F925	86	23'-0"	6725	S
G925	42	11'-0"	1571	S
H925	42	8'-2"	1166	S
J601	44	16'-6"	1090	S
K601	22	14'-4"	474	S
M601	87	43'-8"	5706	S
N601	57	43'-8"	3738	S
Replacement Steel				
RE1001	1	7'-2"	31	S
RE901	1	6'-10"	23	S
RE801	1	6'-6"	17	S
RE701	1	6'-2"	13	S
RE601	1	5'-11"	9	S
RE501	1	5'-7"	6	S
RE401	1	5'-5"	4	B
Piers				
P1001	8	43'-6"	1497	S
P901	8	40'-6"	1102	S
P701	96	4'-0"	785	S
P501	4	40'-6"	169	S
P502	68	9'-0"	638	B
P503	8	6'-4"	53	B
P401	64	5'-5"	232	B
Abutments				
R1001	16	22'-11"	1578	S
R801	16	26'-1"	1114	S
R501	16	25'-7"	427	S
R502	156	6'-7"	1071	B
R503	8	22'-1"	184	S
R504	24	5'-4"	134	S
R505	34	7'-11"	281	B
R506	8	12'-8"	106	S
R507	16	4'-11"	82	S
R508	28	6'-8"	195	B
R509	28	8'-5"	246	B
R401	64	5'-5"	232	B



GENERAL NOTES

REFERENCE shall be made to Standard Drawings GS-1-54 revised 7-16-56, A-1-54 revised 12-1-54 and P-1-54 revised 12-1-54.

TEMPORARY RUN-AROUND BRIDGE AND APPROACHES. Load frequency for bridge, CF=30, with unit stresses increased 25% as per Sec. 82 of the Design Specifications for Highway Structures. Bridge width 22'. Approach width, out-to-out of shoulders, 28'. Approach pavement shall be Class B, 22' wide.

REMOVAL OF EXISTING STRUCTURE: When no longer needed to maintain traffic the existing structure shall be removed and become the property of the Contractor. The substructure shall be removed to at least 6" below proposed ground surface.

PILES shall be driven to a minimum bearing capacity of 26 tons for the abutments and 35 tons for the piers. The length of penetration of every pile shall be at least 80% of the estimated average length of penetration of the piles in the pertinent pier or abutment as indicated on the plans, unless a lesser penetration is approved by the Director.

PIER PILE ENCASEMENT as shown on Std. Drawing No. P-1-54 may be omitted provided that the tapered portion, if any, of all pier piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required for all the pier piles. If the encasement is omitted the pile casings shall have a thickness of metal not less than No. 7 gauge, and the painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, the painting shall extend to at least one foot below the proposed surface of the ground.

GRAVEL, if used as the coarse aggregate, shall be according to Sec. M-3.93 instead of M-3.91 for Class C concrete in the superstructure. Gravel meeting the requirements of Sec. M-3.93 also may be used for other concrete in this structure.

DECK SLAB THICKNESS shall be 13 3/4" which includes 3/4" for monolithic wearing surface.

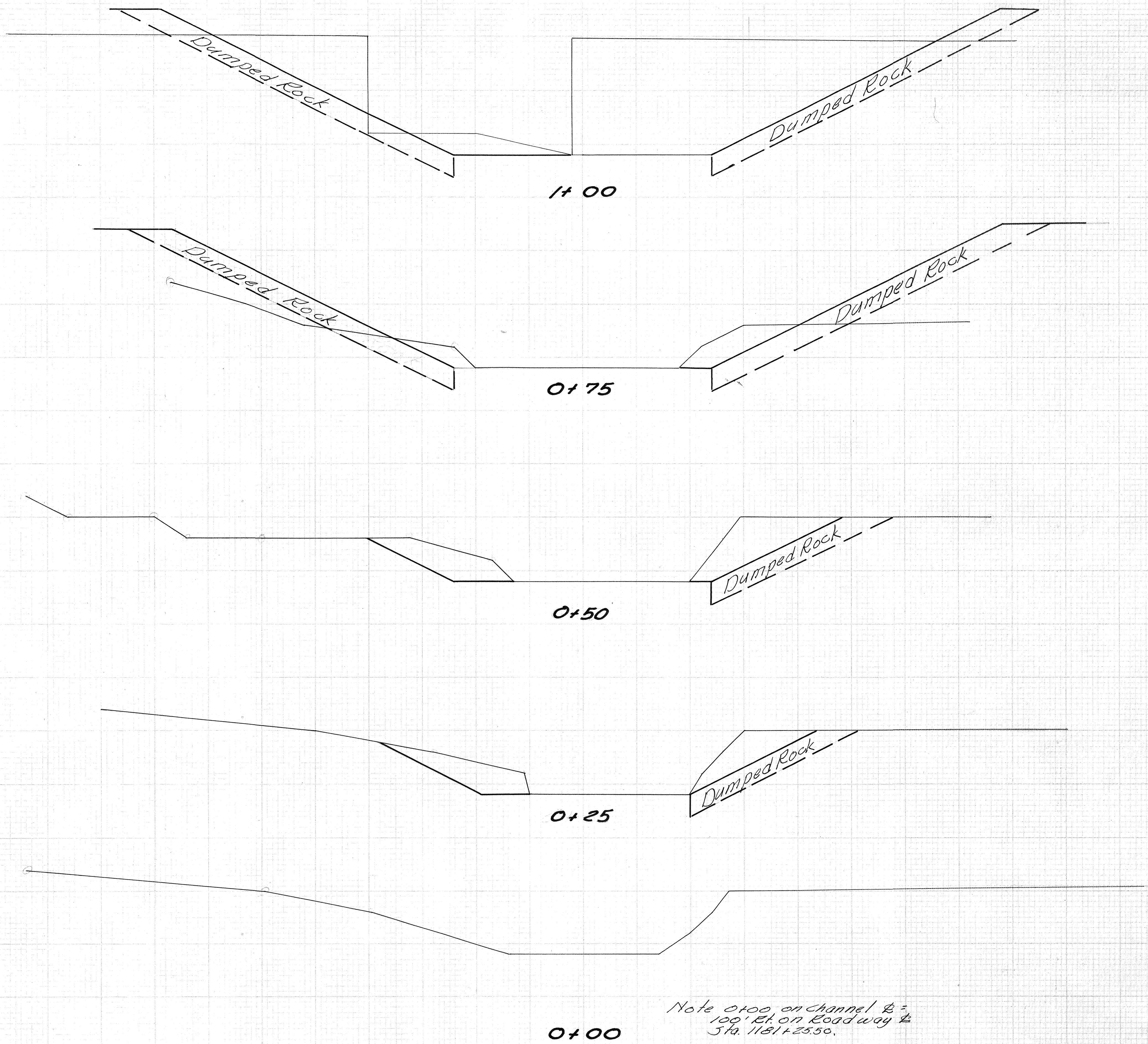
STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

GENERAL PLAN, ELEVATION, NOTES, ESTIMATED QUANTITIES AND REINFORCING STEEL LIST
BRIDGE No. SCI-73-2239
OVER DRY RUN
Scioto County. Sta. 1180 +82.50
1181 +68.50

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
JVP	JVP	M.T.W.	E.S.	qf	9-6-56	3-8-57

I-10	
End Width	39
Vol	166
64	
174	
61	
107	
16	
43	
15	
12	
0	

I-10 = 648 Sq. Yd. = 432 Cu. Yds.



Note 0+00 on channel & =
100' ft. on Roadway &
Sta. 1181+25.50.

End Area		Volume	
Cut	Fill	Cut	Fill
314			
	159		
28			
	42		
61			
	50		
43			
	22		
0			

E-3 = 590 Cu. Yds.

DRY RUN CHANNEL SECTION

I-10
 End Sta
 Width Vels

SCIOTO COUNTY
 SCI-73-20.78

End Area		Volume	
Cut	Fill	Cut	Fill
		0	
			12
25			
			27
25			
			29
		90	
			52
117			200
314			

2+25

2+00

1+75

1+50

1+25

Dumped Rock

Dumped Rock

Dumped Rock

DRY RUN CHANNEL SECTION

0
22
16
107
61
174
64

Sta. 1+00

Sta. 1+00

70 60 50 40 30 20 10 0 10 20 30 40 50 60

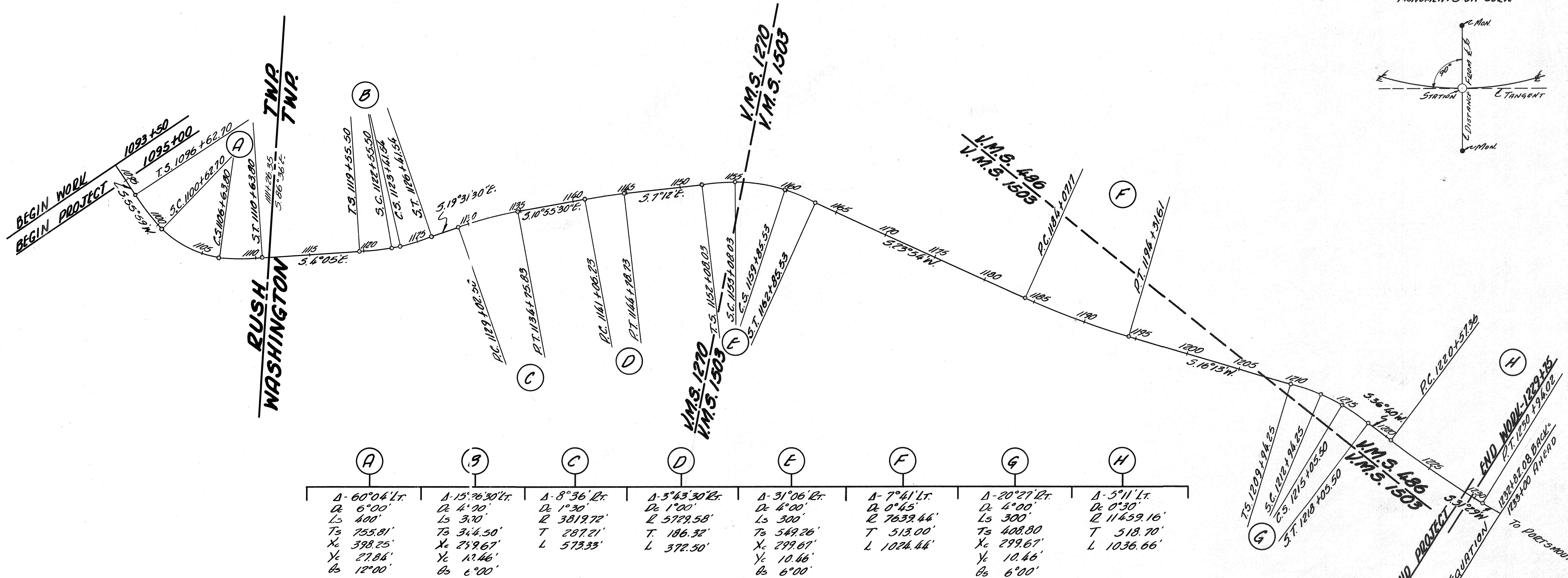
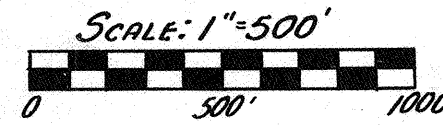
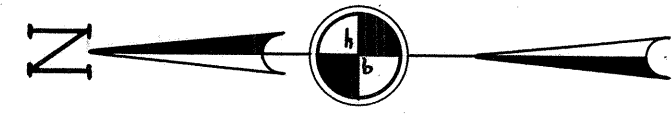
LOCATION PLAN

SCIOTO COUNTY

RUSH & WASHINGTON TOWNSHIPS
VIRGINIA MILITARY SURVEYS 1270, 1503, & 486

SCI-73-20.78

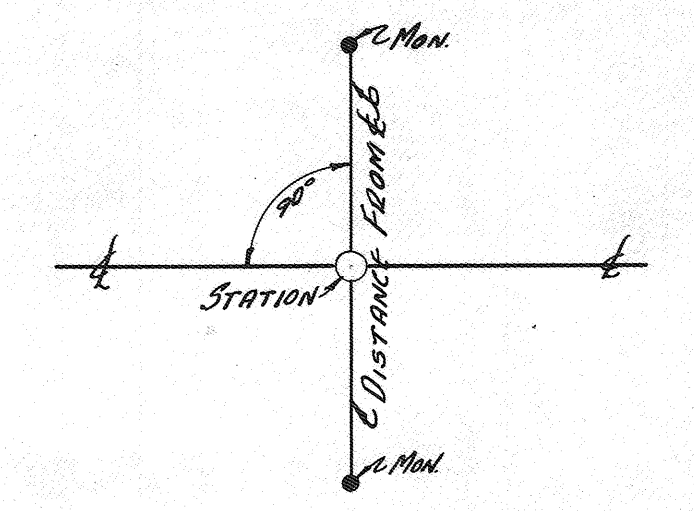
1956



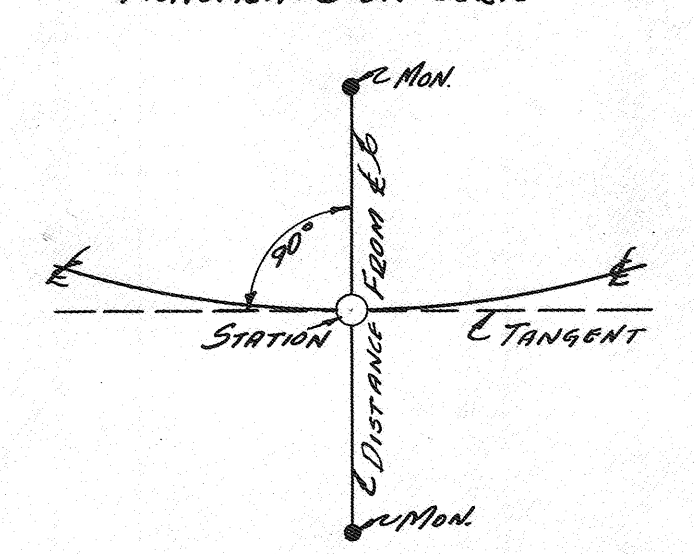
A	B	C	D	E	F	G	H
Δ -60°04' Lt.	Δ -15°26'30" Lt.	Δ -8°36' Rt.	Δ -5°43'30" Rt.	Δ -31°06' Rt.	Δ -7°41' Lt.	Δ -20°27' Rt.	Δ -5°11' Lt.
D_c 6°00'	D_c 4°20'	D_c 1°30'	D_c 1°00'	D_c 4°00'	D_c 0°45'	D_c 4°00'	D_c 0°30'
L_s 400'	L_s 370'	L_s 3819.72'	L_s 5729.58'	L_s 300'	L_s 7639.44'	L_s 300'	L_s 11459.16'
T_s 755.81'	T_s 344.50'	T_s 287.21'	T_s 186.32'	T_s 549.26'	T_s 513.00'	T_s 408.80'	T_s 518.70'
X_c 398.25'	X_c 299.67'	X_c 573.33'	X_c 372.50'	X_c 299.67'	X_c 10.46'	X_c 299.67'	X_c 10.46'
Y_c 27.86'	Y_c 11.46'	Y_c 11.46'	Y_c 10.46'	Y_c 10.46'	Y_c 10.46'	Y_c 10.46'	Y_c 10.46'
b_s 12°00'	b_s 6°00'			b_s 6°00'		b_s 6°00'	

STATION	DISTANCE FROM ϵ	
	LEFT	RIGHT
1095+00	20'	20'
1096+62.70	20'	20'
1100+62.70	22'	22'
1106+63.80	22'	22'
1110+63.80	20'	20'
1115+00	20'	25'
1119+55.50	20'	20'
1122+55.50	20'	20'
1123+41.54	20'	20'
1126+41.54	20'	20'
1129+02.50	20'	20'
1134+25.83	22'	20'
1141+06.23	22'	22'
1146+28.73	22'	20'
1152+08.03	22'	—
1155+08.03	22'	20'
1159+85.53	22'	20'
1162+85.53	22'	20'
1170+00	22'	20'
1175+00	20'	20'
1180+00	22'	—
1184+07.17	22'	22'
1189+19.39	22'	20'
1194+31.61	22'	24'
1200+00	21'	20'
1205+00	22'	20'
1209+96.25	20'	20'
1212+96.25	20'	—
1215+05.50	20'	20'
1218+05.50	20'	20'
1220+57.36	20'	20'
1225+75.69	20'	20'
1230+94.02	20'	20'

DETAIL FOR SETTING REFERENCE MONUMENTS ON TANGENT



DETAIL FOR SETTING REFERENCE MONUMENTS ON CURVE



RECORDING

THIS PLAN RECORDED IN VOLUME 2, PAGE 193, OF THE MISS. RECORDS AT PORTSMOUTH, SCIOTO COUNTY, OHIO.

CERTIFICATION

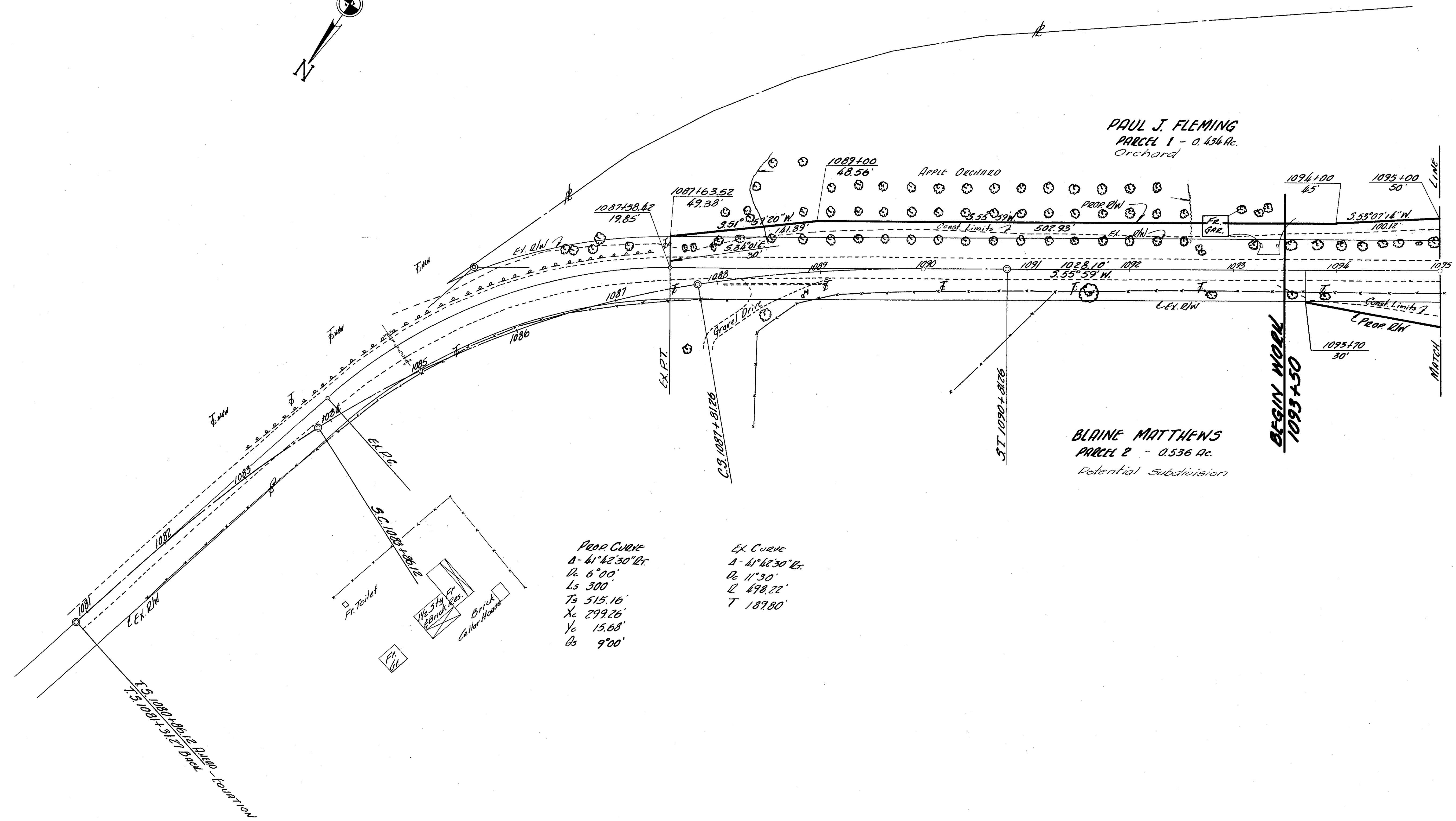
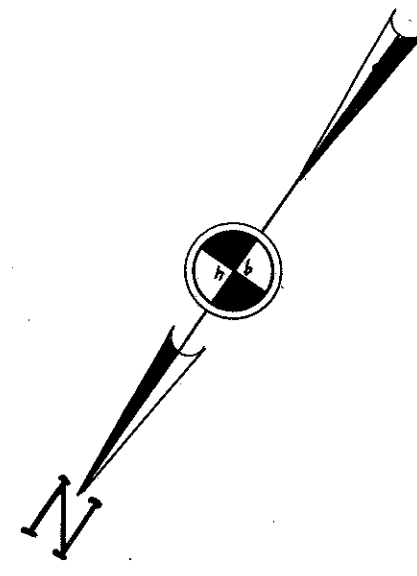
I HEREBY CERTIFY THAT THIS PLAN IS A TRUE DELINEATION OF A SURVEY MADE IN 1956 BY THE OHIO DEPARTMENT OF HIGHWAYS.

Joseph N. Doyle DATE: 5-28-56
JOSEPH N. DOYLE - P.E., 1209 DIVISION ENGINEER

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	



SCIOTO COUNTY
SCI-73-20.78
R/W PLAN



PROP. CURVE
 $\Delta - 41^\circ 42' 30''$ Lt.
 $D - 6^\circ 00'$
 $L_s - 300'$
 $T_s - 515.16'$
 $X_e - 299.26'$
 $Y_e - 15.68'$
 $O_s - 9^\circ 00'$

EX. CURVE
 $\Delta - 41^\circ 42' 30''$ Lt.
 $D - 11^\circ 30'$
 $L - 498.22'$
 $T - 189.80'$

TO 1080+86.12 - DASH - EQUATION
 $T.S. 1087+51.27$ DASH

RUSH & WASHINGTON TOWNSHIPS
V.M.S. 1270

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

143
148

SCIOTO COUNTY
SCI-73-20.78
R/W PLAN

Revised: 10-1-56
11-2-56

BEGIN PROJECT
1095+00

BLAINE MATTHEWS
PARCEL 2
0.536 Ac.
Potential Subdivision
1097+25
95'

PAUL J. FLEMING
PARCEL 1
0.436 Ac.
N.R. - Drives Lt.
1096+19'

FRANK & ARLINE WOLFE
N.R. To Dress Around
Greenhouse Lt. 1098+30'

FRANK & ARLINE WOLFE
PARCEL 3-X
0.461 Ac.
N.R. To Remove Emb. Outside
Channel Limits Lt. 1101'-1108'50"
Crapland & Creek Channel

J. RICHARDSON THOMAS
PARCEL 4
5.599 Ac. Crapland & Residential
PARCEL 4-X
0.179 Ac. Crapland & Creek Channel

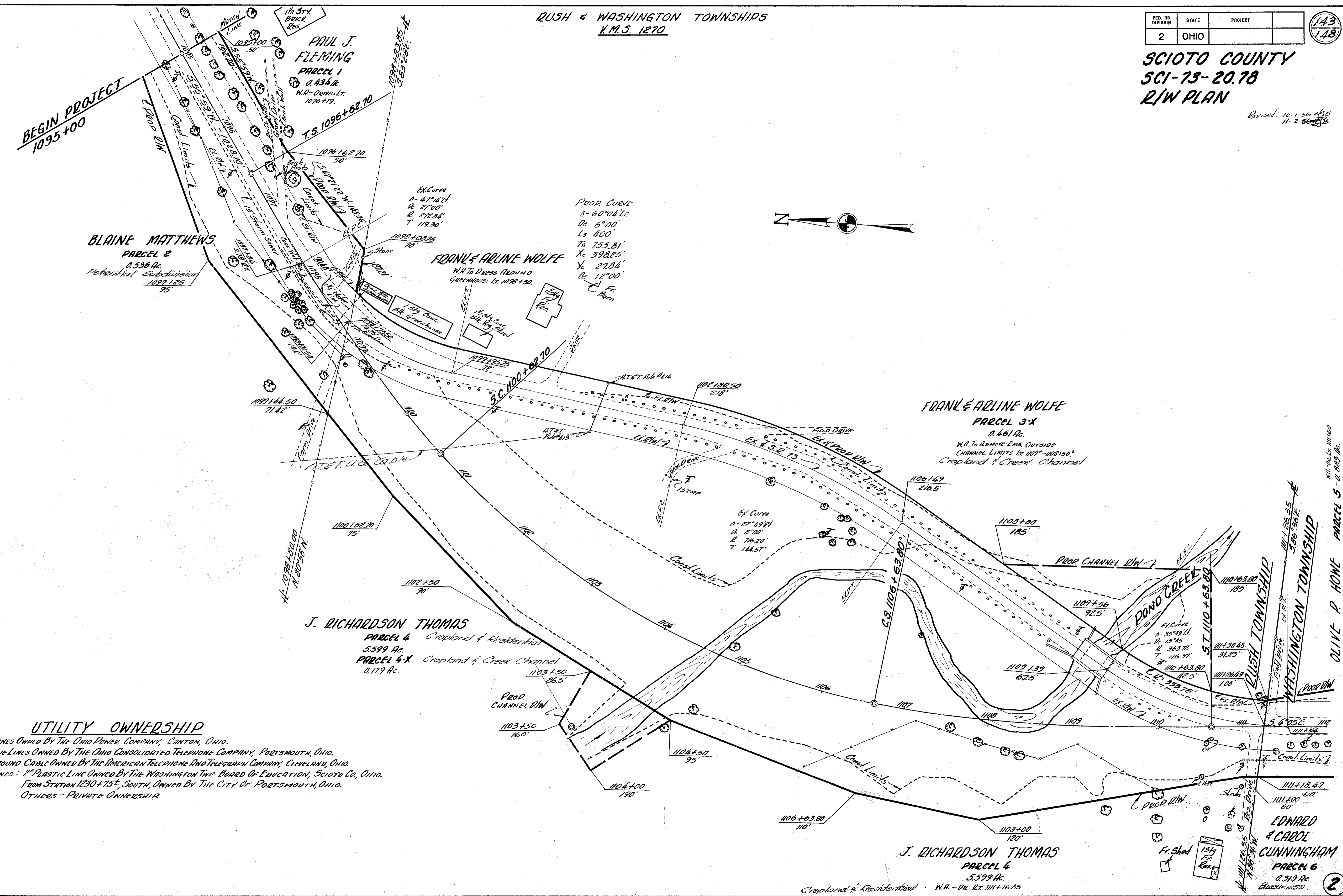
J. RICHARDSON THOMAS
PARCEL 4
5.599 Ac.
Crapland & Residential

EDWARD & CAROL CUNNINGHAM
PARCEL 6
0.519 Ac.
Business

OLIVE P. HOWE
PARCEL 5 - 0.885 Ac.

UTILITY OWNERSHIP

POWER LINES OWNED BY THE OHIO POWER COMPANY, CANTON, OHIO.
TELEPHONE LINES OWNED BY THE OHIO CONSOLIDATED TELEPHONE COMPANY, PORTSMOUTH, OHIO.
UNDERGROUND CABLE OWNED BY THE AMERICAN TELEPHONE AND TELEGRAPH COMPANY, CLEVELAND, OHIO.
WATER LINES: 2" PLASTIC LINE OWNED BY THE WASHINGTON TWP. BOARD OF EDUCATION, SCIOTO CO., OHIO.
FROM STATION 1230+75⁺, SOUTH, OWNED BY THE CITY OF PORTSMOUTH, OHIO.
OTHERS - PRIVATE OWNERSHIP.

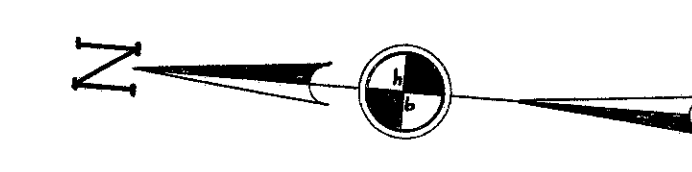


WASHINGTON TOWNSHIP
V.M.S. 1270

SCIOTO COUNTY
SCI-73-2078
R/W PLAN

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

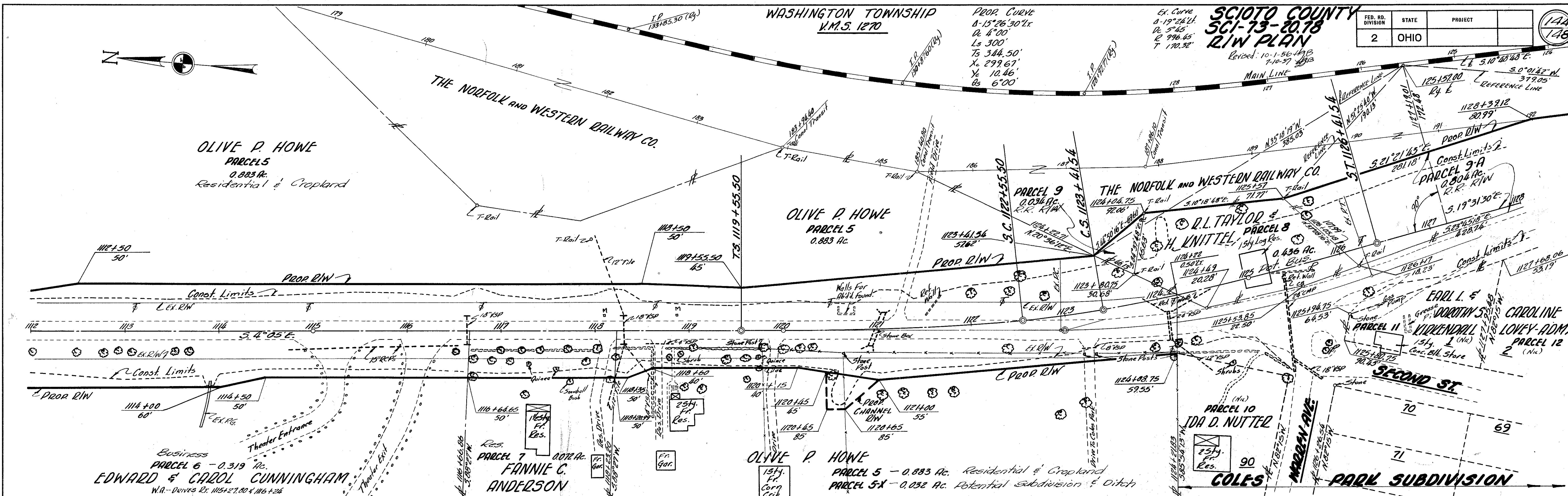
144
148



PROJ. CURVE
 Δ-15°26'30" Lx
 R-4'00"
 Ls 300'
 Ts 344.50'
 Xs 299.67'
 Ys 10.46'
 Bx 6'00"

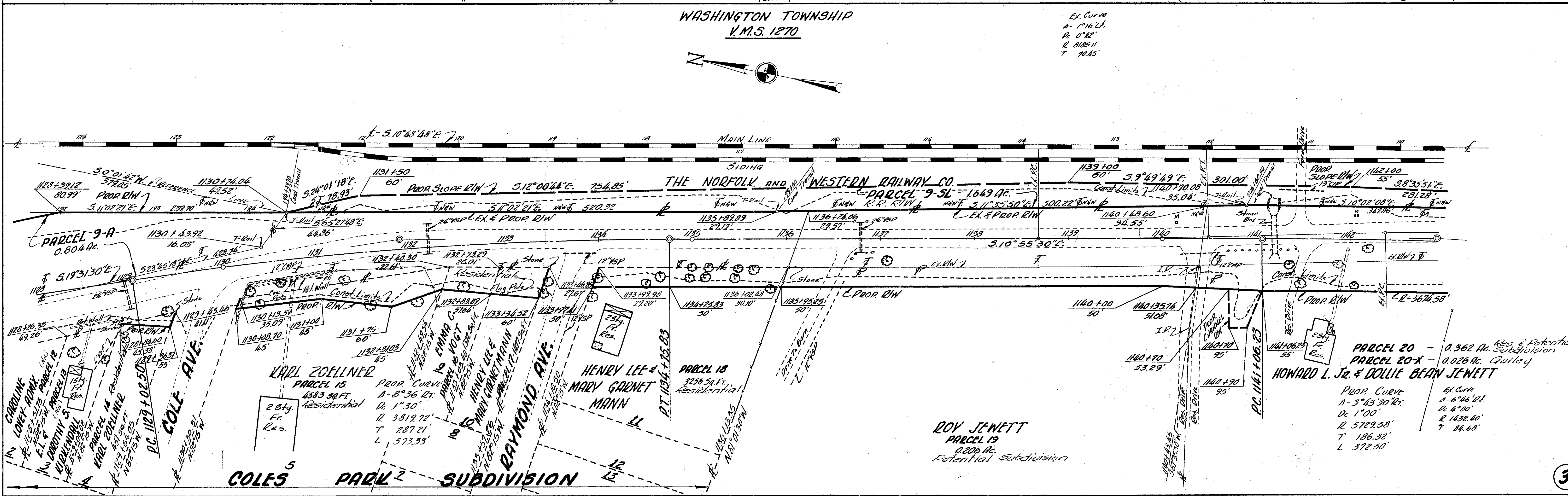
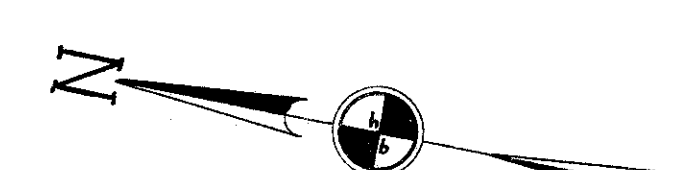
EX. CURVE
 Δ-19°26'41"
 R-5'45"
 L-996.65'
 T-170.32'

Revised: 10-1-56-49B
7-10-57-49B



WASHINGTON TOWNSHIP
V.M.S. 1270

EX. CURVE
 Δ-19°16'21"
 R-0'42"
 L-8185.11'
 T-70.45'



3

WASHINGTON TOWNSHIP
V.M.S. 1503

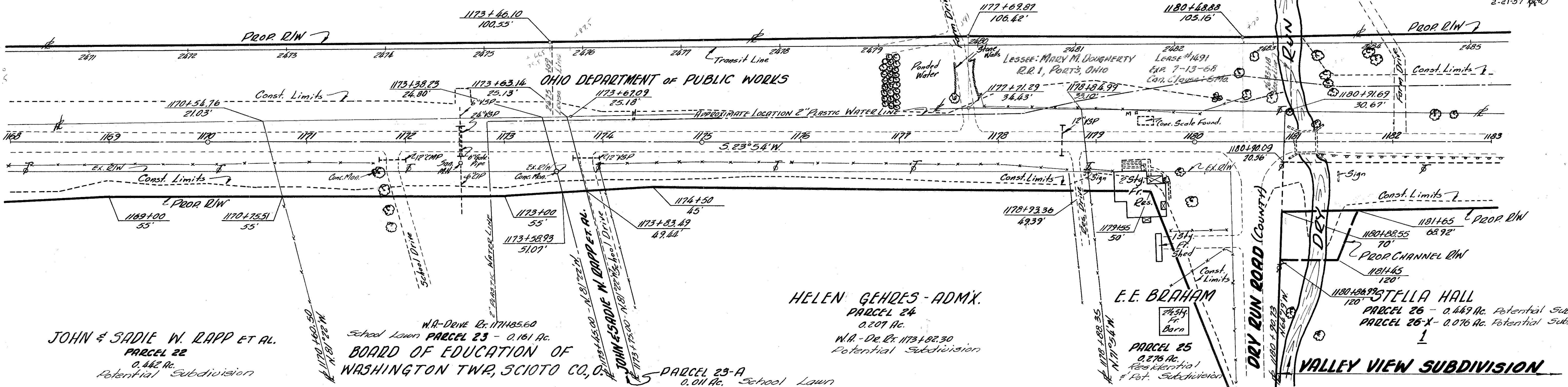
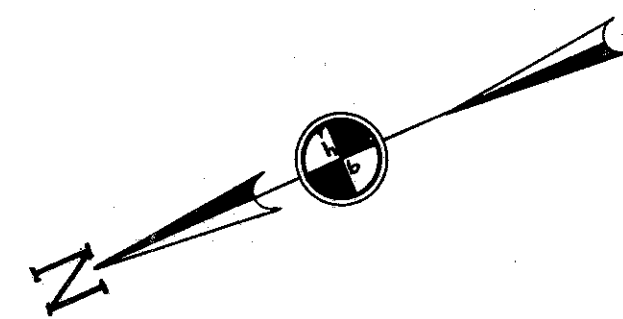
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

146
148

SCIOTO COUNTY
3C1-73-20.78
R/W PLAN

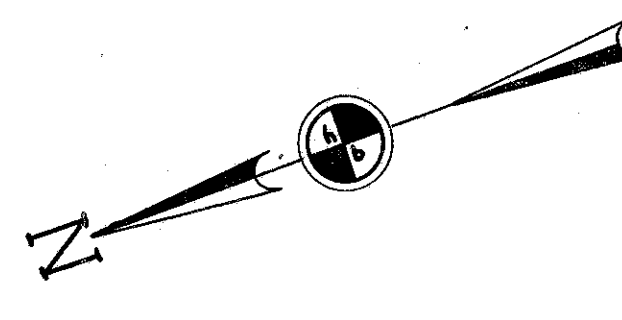
Revised:
7-7-56-463
10-1-56-458
2-21-57-454

Note: Lease #1691 CANCELLED,
EFFECTIVE NOV. 9, 1956.

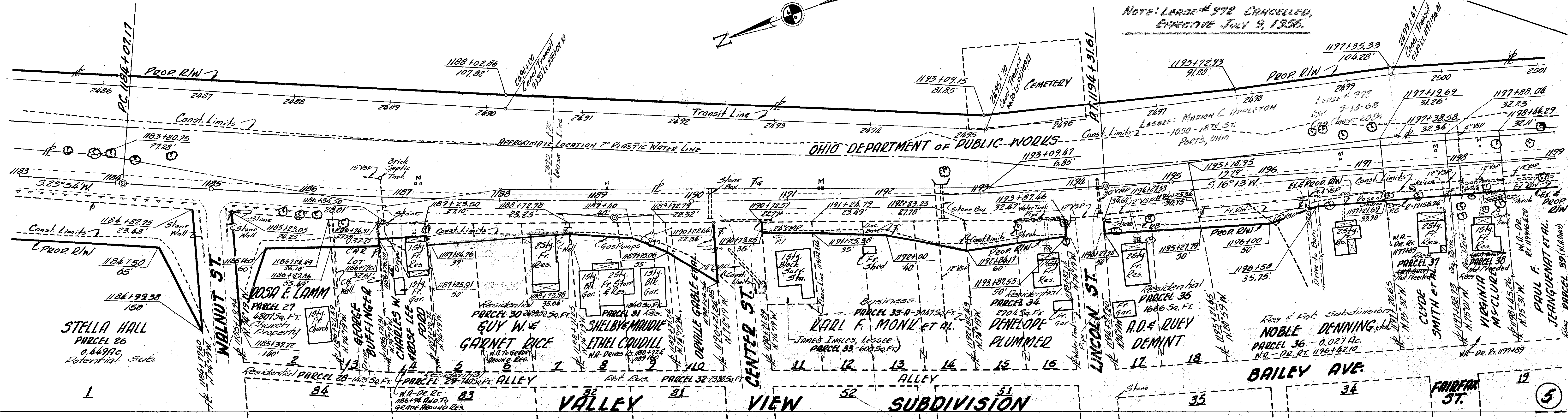


WASHINGTON TOWNSHIP
V.M.S. 1503 & 486

Note: Lease #978 CANCELLED,
EFFECTIVE JULY 9, 1956.



PROP. CURVE
R 7° 41' Lt.
Dc 0° 45'
T 7639.44'
L 1024.44'



R/W PLAN-1168+00 TO 1199+00

WASHINGTON TOWNSHIP
V.M.S. 1503 & 486

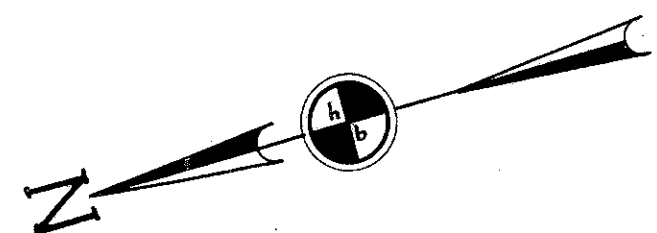
DONALD M. APPLETON

WILLIAM G. BUFFINGER

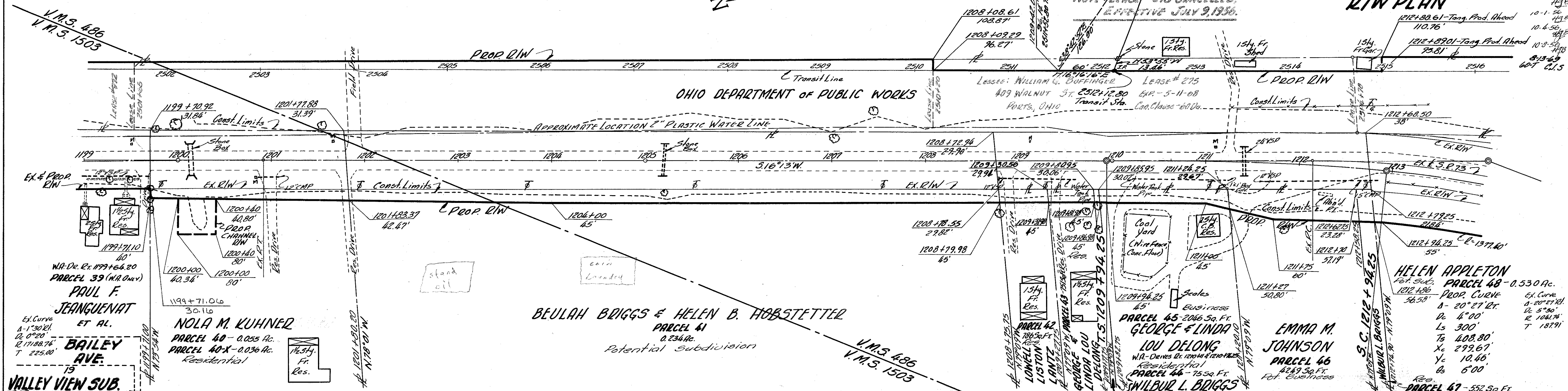
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

SCIOTO COUNTY
SCI-73-20.18
R/W PLAN

LENOED: 9-13-56
147
148
10-1-56
10-4-56
10-8-56
8-13-69
607 C.I.S

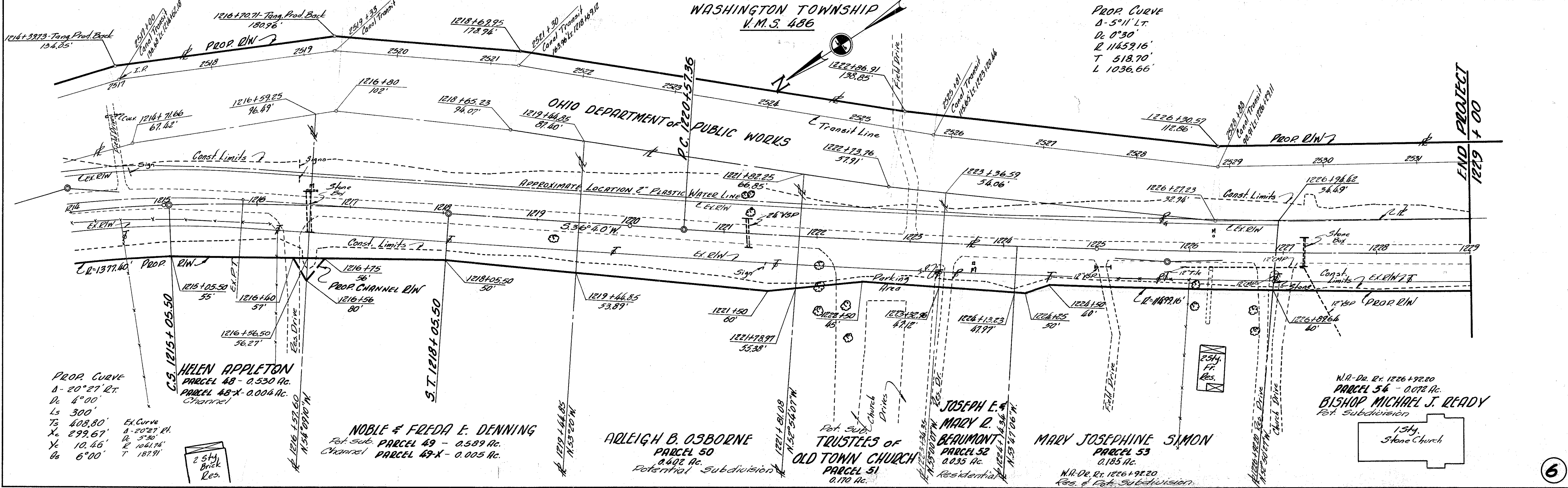


Note: Lease # 275 Cancelled
EFFECTIVE JULY 9, 1956.



WASHINGTON TOWNSHIP
V.M.S. 486

PROP. CURVE
Δ-5°11' LT.
D- 511.16'
R- 11659.16'
T- 518.70'
L- 1036.66'



END PROJECT
1229 + 00

R/W PLAN-1199+00 TO 1229 + 00

WASHINGTON TOWNSHIP
V.M.S. 486

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

148
148

SCIOTO COUNTY
SCI-73-20.78
R/W PLAN

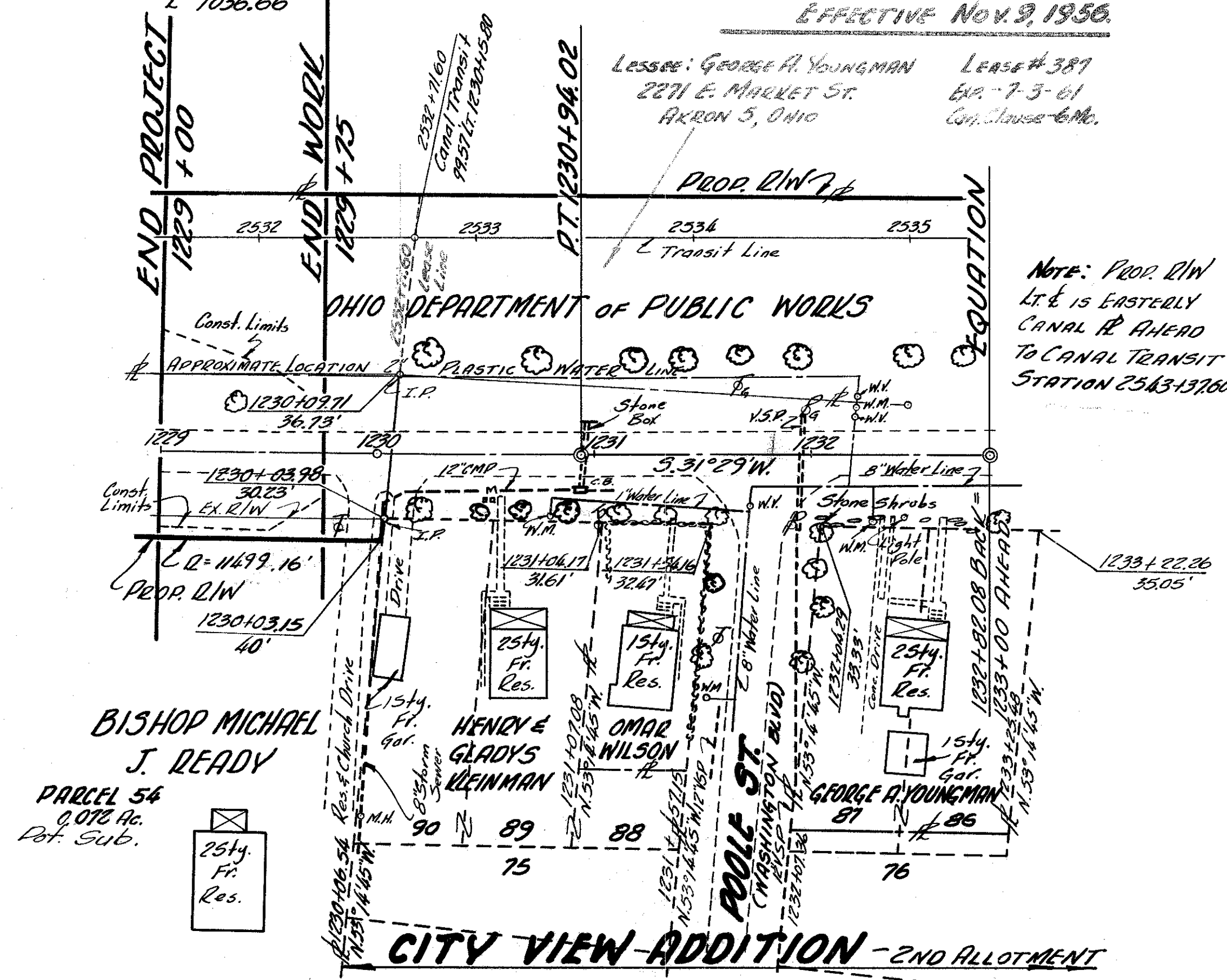
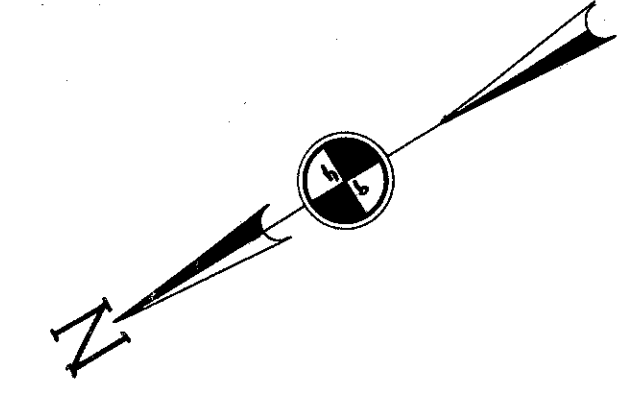
REVISED:
9-13-56 HJB

PROP. CURVE
Δ-5"11' LT.
Dc 0°30'
Q 11459.16'
T 518.70'
L 1236.66'

NOTE: LEASE #387 CANCELLED,
EFFECTIVE NOV. 2, 1956.

Lessee: GEORGE A. YOUNGMAN
2271 E. MARQUET ST.
AKRON 5, OHIO

LEASE # 387
EXP. 7-3-61
CON. CLAUSE 6 Mo.



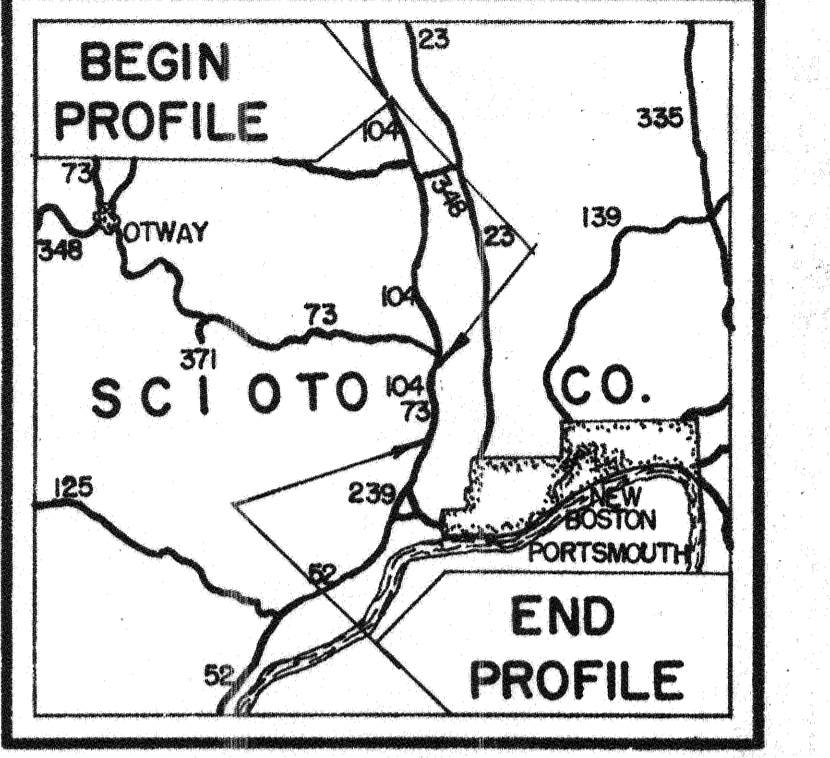
SOIL PROFILE
SCIOTO COUNTY
SCI-73-2078

STATE HIGHWAY TESTING AND RESEARCH LABORATORY
 O. S. U. CAMPUS, COLUMBUS, OHIO



NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.

FED. NO. S-492



LOCATION MAP
 FIELD WORK 2-1-56
 DRAFTING 3-30-56

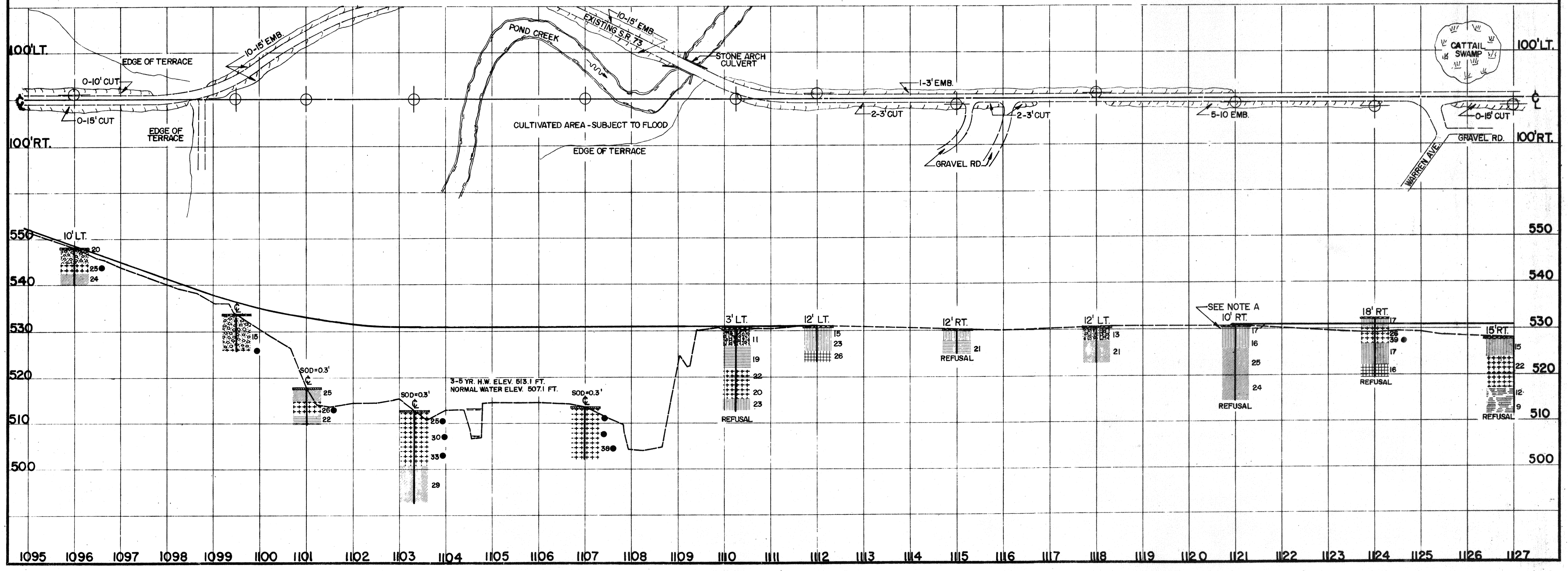
LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 92 SAMPLES TESTED

DESCRIPTION	H. R. B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED	
GRAVEL WITH SAND	A-1-b(0)	A-1-b	41	32	13	9	5	21	2	15	3	
GRAVEL WITH SAND & SILT	A-2-4(a)	A-2-4	36	19	12	23	10	21	5	11	4	
SANDY SILT	A-4(a)	A-4d	18	16	12	33	21	26	6	17	26	
SILT	A-4(b)	A-4b	2	3	7	60	28	28	6	25	21	
SILT AND CLAY	A-6(a)	A-6d	3	3	4	47	43	34	13	22	28	
SILTY CLAY	A-6(b)	A-6b	2	3	4	42	49	38	17	21	6	
CLAY	A-7-6(13)	A-7-6	1	2	3	40	54	45	20	22	4	
SHALE	(CLASSIFIED BY VISUAL INSPECTION)											
AUGER BORING PLOTTED TO VERTICAL SCALE ONLY				TOP SOIL, T.S. = X' = APPROXIMATE DEPTH			WATER CONTENT NEARLY EQUAL TO OR GREATER THAN LIQUID LIMIT					
AUGER BORING - PLAN VIEW				BERM MATERIAL			SAMPLES TAKEN LAB. NOS. SO: 33769 TO 33796 INCL.; 33981 TO 34050 INCL.					

NOTE: FIGURES BESIDE BORINGS INDICATE WATER CONTENT IN PERCENT

NOTE A: THIS A-4d SOIL WILL BE RUBBERY AND UNSTABLE AT WATER CONTENTS WHICH EXCEED THE OPTIMUM.

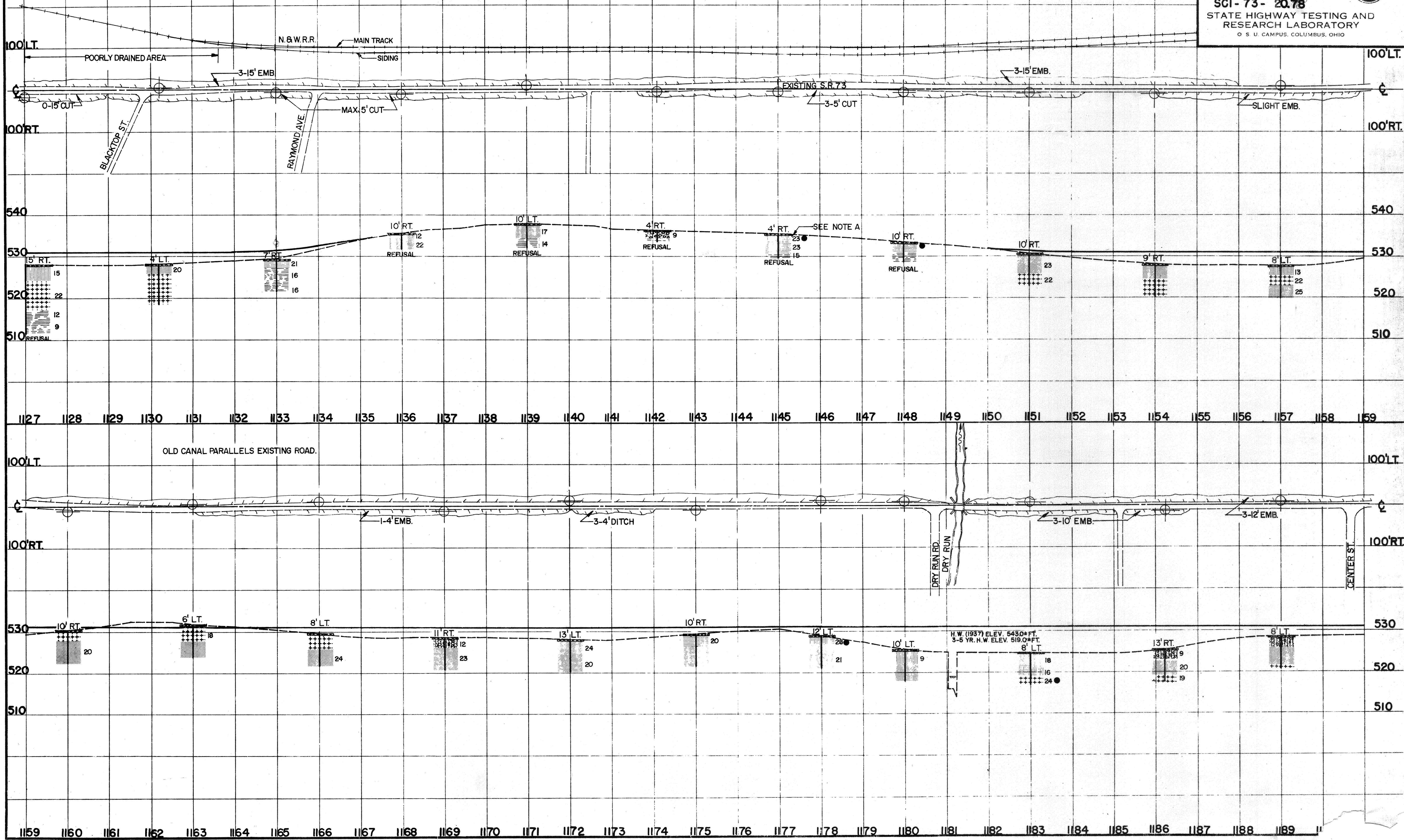
NOTE: EXISTING BITUMINOUS PAVEMENT IN GOOD TO EXCELLENT CONDITION. THE PROPOSED PROJECT LIES ALONG THE WEST EDGE OF SCIOTO RIVER VALLEY AND SKIRTS THE ERODED EDGE OF AN OLD EROSION TERRACE FOR THE MOST PART. AT THE BEGINNING OF THE PROJECT THE LINE LEAVES THE EDGE OF THE TERRACE AND CROSSES THE VALLEY OF POND CREEK AND FOLLOWS CLOSELY THE SOMEWHAT ERODED TERRACE FRONT TO THE END OF THE PROJECT.



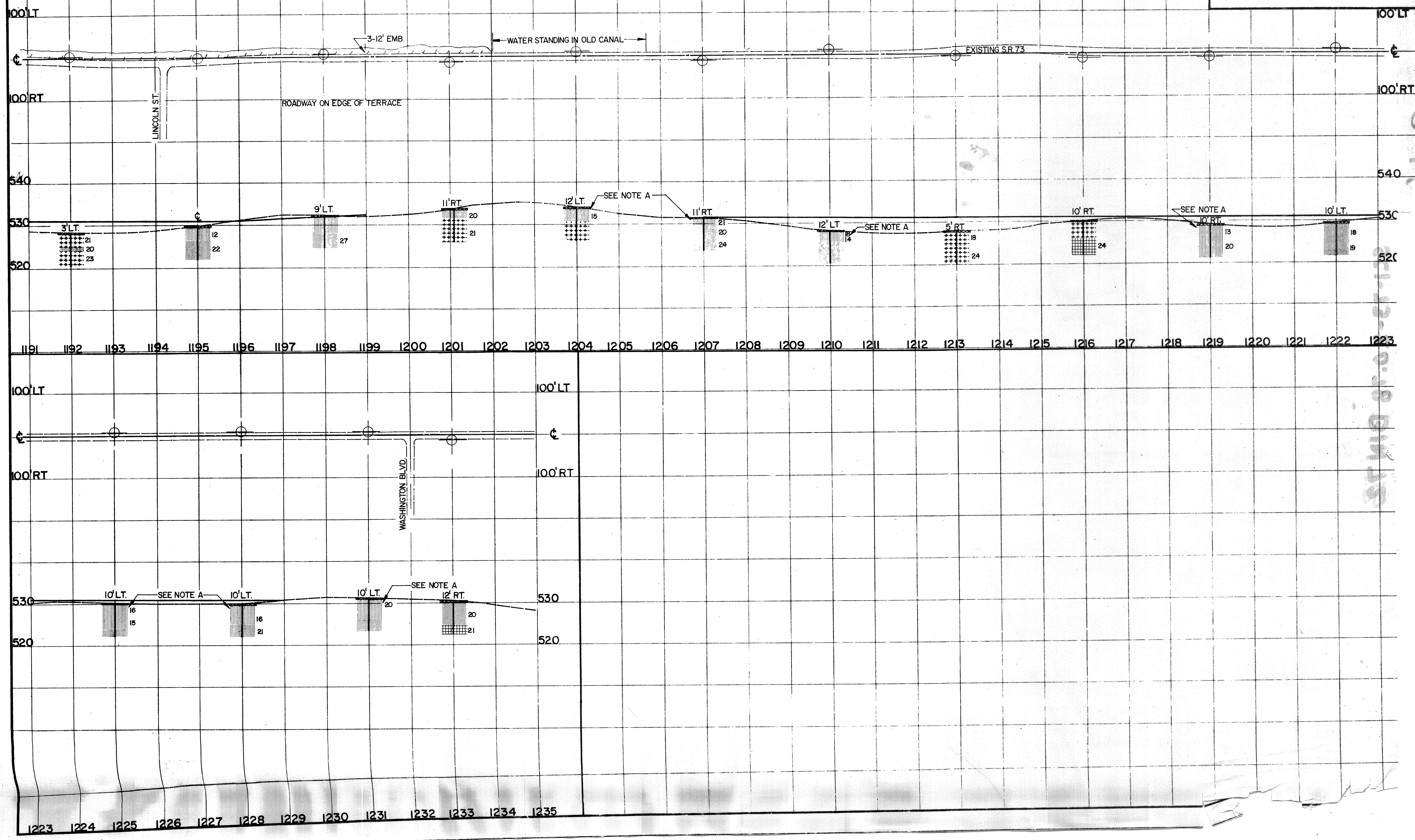
NOTE: WATER STANDING ALONG RT. SIDE OF CENTERLINE
STA 1132+00 TO 1139+00 & 1144+00 TO 1155+00
(JAN. 18 & 19, 1956)

SOIL PROFILE
 SCIOTO COUNTY
 SCI-73-20.78
 STATE HIGHWAY TESTING AND
 RESEARCH LABORATORY
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2
3



TE 54-B
100-1055



B.M.

11-2-0-18 B.M.S.