FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	STATE	

1/61

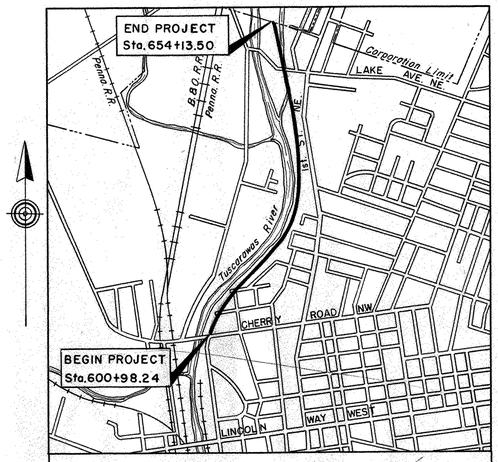
452-D

STA-21-11.39

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

STA- 21-11.39
STARK COUNTY

CITY OF MASSILLON
PERRY TOWNSHIP



Delivery Point Massillon
Average Haul From Siding 0.75 Miles

LIMITED ACCESS

This improvement is especially designed for thru traffic and has been declared a limited access highway, or freeway by action of the Director of Highways, in accordance with provisions of Section 5511.02 of the revised Code of Ohio

CONVENTIONAL SIGNS

Center Line of Road	
Street Line	
Property Line	℄
Right of Way Line	R/W
Corporation Line	
Limits of Cut or Fill	
Slope Easement	
Building	
Tree	
River	
Guard Rail	
Power Pole	
Telephone Pole	
Fire Hydrant	
Fence Line	
Valve	
Proposed Work	
To be removed	

INDEX OF SHEETS

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Joint and Drainage Details	11
Plan and Profile	12-27
Cross Sections	28-49
Right of Way	50-A, 51-61
Fence Details	50

LINE DATA

Begin Project	Sta. 600+98.24
End Project	Sta. 654+13.50
Deduction for Equality in Line	(-25.53 Lin Ft.)
Length of Project	=5289.73 Lin. Ft. or 1.001 Miles
Begin Work	Sta. 600+98.24
End Work	Sta. 654+50
Deduction for Equality in Line	(-25.53 Lin. Ft.)
Length of Work	=5326.23 Lin Ft. or 1.008 Miles

519

LOCATION PLAN

Location of Project
Other Roads

SCALES

Plan	1"=20'
Profile-Horizontal	1"=20'
Profile-Vertical	1"=5'
Cross Sections	1"=5' 8.1"=10'
Intersections	1"=20'

STANDARD DRAWINGS

L-3	4-1-50	S-27 P.C.1	5-1-52	I-15 Nº 1	8-1-55
L-3-A	4-1-50	S-27 P.C.2	3-15-48	I-15 Nº 2	12-1-54
RI-1	1-3-55	S-27 P.C.4	1-4-54	I-21-23	10-17-55
T-35	1-2-56	I-1,2,3,4&5	2-20-45	I-8 M.H. Nº 1-A	1-3-55
L-1	4-1-50	I-8C.B. I-2-A&B	5-1-52	S-27 P.C.-3	2-20-45
B-T-71R	3-2-53	I-8C.B.2-2-A&B	5-1-52	B-T-50-70-71E No.1	10-1-47
L.J. No.1	7-1-55	I-81. No.2	12-1-54		
DR-1	1-3-55	I-8 M.H No.1	5-1-52		
TJ	5-1-56	I-8 M.H No.2	5-1-52		
G-7.07	4-2-56	I-12	7-1-54		
		I-14 G	1-22-52		

SUPPLEMENTAL SPECIFICATIONS

6		12-28-55
B-119	Rev.	12-14-55
M-110.27		9-9-52
L-209.12		7-17-54
5		6-8-55
18	Rev.	9-7-55

The Standard Specifications of The State of Ohio, Department of Highways, including changes and Supplemental Specifications listed in the proposal shall govern this improvement

I hereby approve these plans and declare the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates

The right of way for this improvement will be provided by the State of Ohio

Approved Carl L Campbell
Date 6-4-56 Division Deputy Director

Approved John J Keier
Date 6/4/56 Deputy Director of Planning and Programming

Approved
Date Engineer of Bridges

Approved E. J. Preston
Date 6-4-56 Engineer of Location and Design

Approved H Bissell
Date 6-4-56 Deputy Director of Design and Construction

Approved V. P. Chandler
Date 6-5-56 First Assistant Director

Approved S. O. Linzell
Date 6-5-56 Director of Highways

Approved
Date Safety - Service Director - City of Massillon

Approved
Date Mayor - City of Massillon

CONSTRUCTION BUREAU AUG 5 1959 GROUND PHOTOLAB

DESIGNED BY
MICHAEL BAKER, JR.
Consulting Engineers
Baker Building
Rochester Penna.
Michael Baker, Jr.
REG. PROF. ENGR.
Ohio 9065
May 21, 1956
Date

STATE OF OHIO Michael Baker, Jr. No. 9065 REGISTERED PROFESSIONAL ENGINEER

FILE NO.	STA.-21-11.39
	Date of Letting 195
	Contract No.

Rev. 6-7-56 W.J.C.

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

2
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STA - 21 - 11.39

SPIRAL CURVE DATA
P.I. Sta. 628+64.57
Δ = 54°25'22" Lt.
Dc = 2° 05'
R = 2750.20'
Ls = 300.00'
θs = 3°07'30"
Δc = 48°10'22"
Ts = 1564.79'
Es = 343.79'
Lc = 2312.30'
Xc = 299.91'
Yc = 5.45'
P = 1.36'
K = 149.99'
L. T. = 200.03'
S. T = 100.03'

SPIRAL CURVE DATA
P.I. Sta. 597+73.67
Δ = 60° 40' 16" Rt.
Dc = 2° 07' 30"
R = 2696.27'
Ls = 300.00'
θs = 3° 11' 15"
Δc = 54° 17' 46"
Ts = 1728.62'
Es = 429.34'
Lc = 2555.11'
Xc = 299.91'
Yc = 5.57'
P = 1.39'
K = 149.99'
L.T. = 200.03'
S.T. = 100.03'

S.L.M. 11.39
BEGIN PROJECT
STA. 600+98.24

S.L.M. 12.39

END WORK
STA. 654+50.00

END PROJECT
STA. 654+13.50

CORP. LINE

MASSILLON

Viaduct

N. 31°38'30" W.

Riprap

THIRD STREET N.W.

THIRD STREET-N.W.

3 Story Brick School

Top of Levee

Channel

JAMES AVENUE-N.W.

NEWMAN CREEK

TUSCARAWAS RIVER

Control Weir

42" Siphon

66" Pipe

C.S. Sta. 609+00.16

C.S. Sta. 615+99.78

S.T. Sta. 612+00.16 Back
= Sta. 612+25.69 Ahead

S.T. Sta. 642+12.08

C.S. Sta. 639+12.08

CHERRY STREET-N.W.

FIRST ROAD-N.W.

GROOSE AVENUE-N.W.

WARWICK AVENUE-N.W.

Alley

ERIE STREET NORTH

WILLARD AVENUE-N.E.

BURTON AVENUE-N.E.

STATE AVENUE-N.E.

OHIO AVENUE-N.E.

DAVID AVENUE-N.E.

FIRST ERTLE AVENUE

N. 29°01'46" E.

N. 25° 23' 36" W.

STREET N.E.

COMMONWEALTH AVENUE

McCADDEN AVENUE-N.E.

AVENUE-N.E.

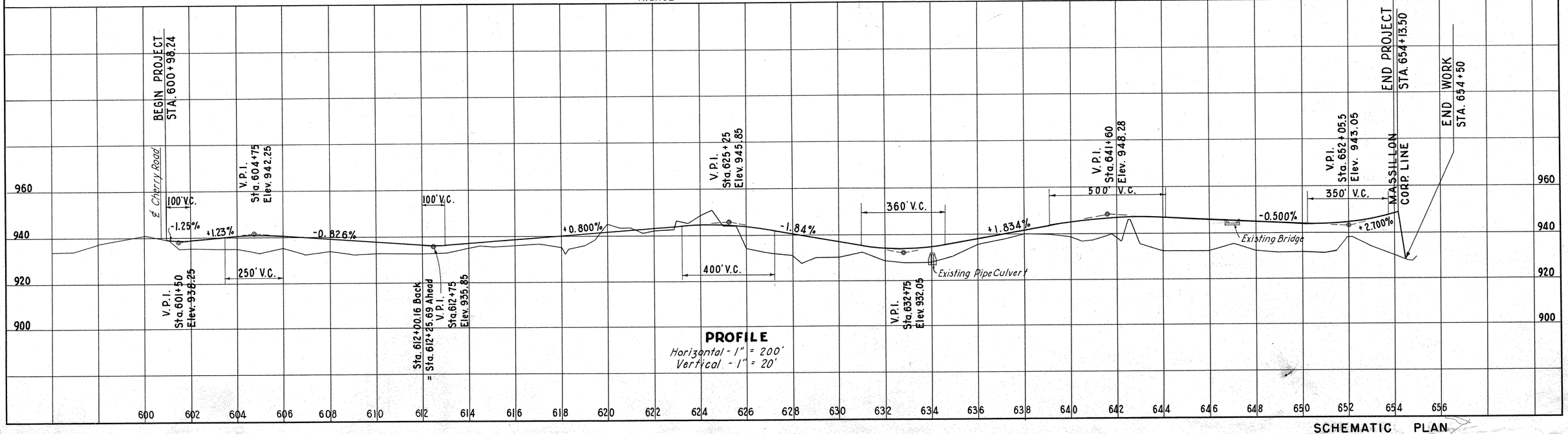
OLD ROAD

Old Canal

LAKE KRACKER STREET-N.W.

595 600 605 610 615 620 625 630 635 640 645 650 655 660

PLAN
Scale: 1" = 200'



PROFILE
Horizontal - 1" = 200'
Vertical - 1" = 20'

SCHEMATIC PLAN

FED. ROAD DIVISION	STATE	PROJECT	
	OH10		

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STA-21-11.39

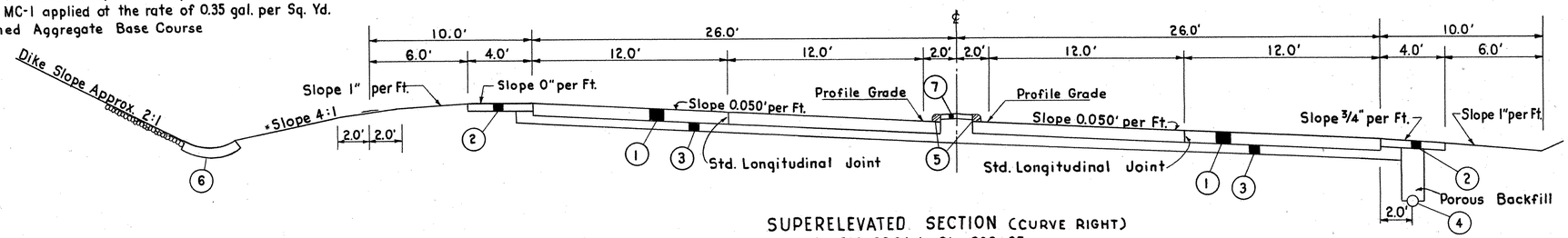
TYPICAL SECTIONS
TYPE T-71 & T-35

Scale 1/4" = 1.0'

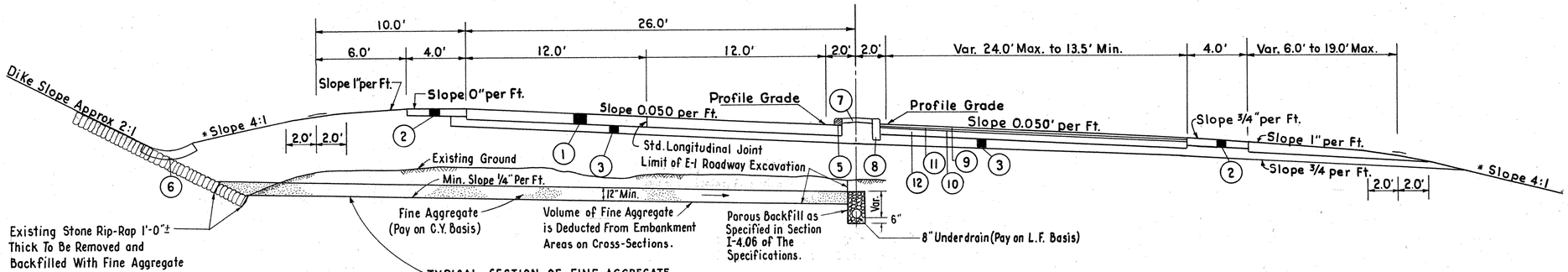
LEGEND

① T-71 9" Reinforced Portland Cement Concrete Pavement.
② I-18 6" Stabilized Shoulder
③ I-22 6" Minimum Depth Subbase (Grading "A" or "B")
④ I-4 6" Pipe Underdrain
⑤ I-12 Monolithic Concrete Curb Standard Type 2-A
⑥ I-14 Paved Gutter, Standard Type 2
⑦ I-21 Portland Cement Concrete Median Pavement - Standard Type I
⑧ I-12 Concrete Curb, Standard Type 6
⑨ T-35 1½" Asphaltic Concrete Surface Course, Type C (70-80)
⑩ B-35 1½" Asphaltic Concrete Leveling Course (70-80)
⑪ T-30 Bituminous Prime Coat, Sec. M-5.7, RT.-2 or 3, or Sec. M-5.3, MC-0 or MC-1 applied at the rate of 0.35 gal. per Sq. Yd.
⑫ B-119 6" Crushed Aggregate Base Course

PUBLIC UTILITIES WITHIN RIGHT OF WAY
East Ohio Gas Co.
Ohio Water Service Co.
Ohio Bell Telephone Co.
Ohio Power Service Co.
City of Massillon Storm & Sanitary Sewers



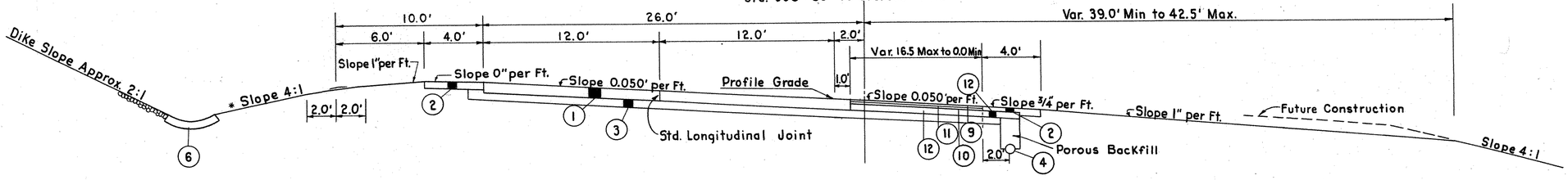
SUPERELEVATED SECTION (CURVE RIGHT)
Sta. 600+98.24 to Sta. 603+95
(Sta. 600+98.24 to Sta. 602+18 - See Intersection Details on Plan & X-Sections)



TYPICAL SECTION OF FINE AGGREGATE BLANKET AND 8" UNDERDRAIN
Sta. 601+00 to Sta. 619+00

NOTE: Underdrain Located on Center Line Unless Otherwise Shown on Cross-Sections.

SUPERELEVATED SECTION (CURVE RIGHT)
Sta. 603+95 to Sta. 606+44.5



SUPERELEVATED SECTION (CURVE RIGHT)
Sta. 606+44.5 to Sta 608+80

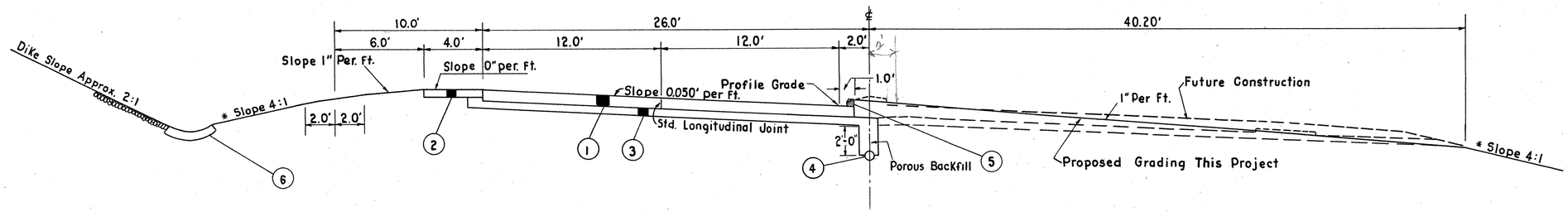
* Slope 4:1 or as shown on Cross-Sections

FED. ROAD DIVISION	STATE	PROJECT	
	OH10		

STA-21-11.39

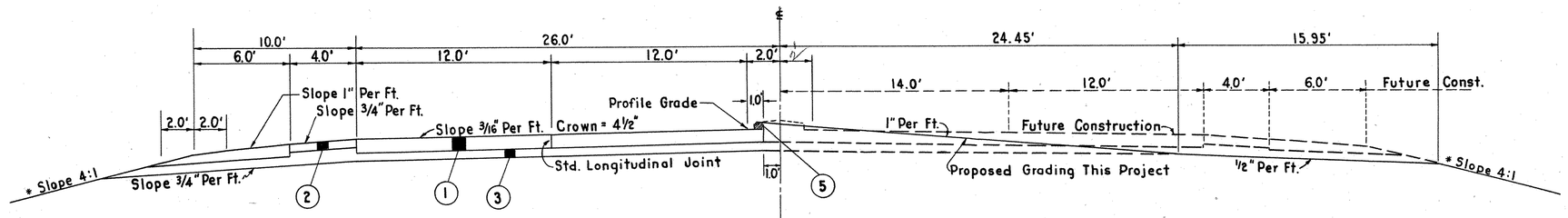
TYPICAL SECTIONS
TYPE T-71 & T-35

Scale 1/4" = 1.0'



SUPERELEVATED SECTION (CURVE RIGHT)

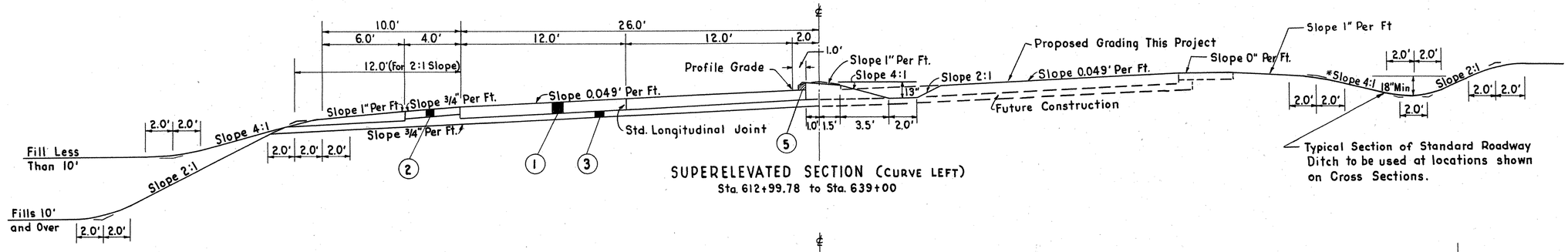
Sta. 608+80 to Sta. 612+00.16 BK.
= Sta. 612+25.69 Ah.



NORMAL SECTION

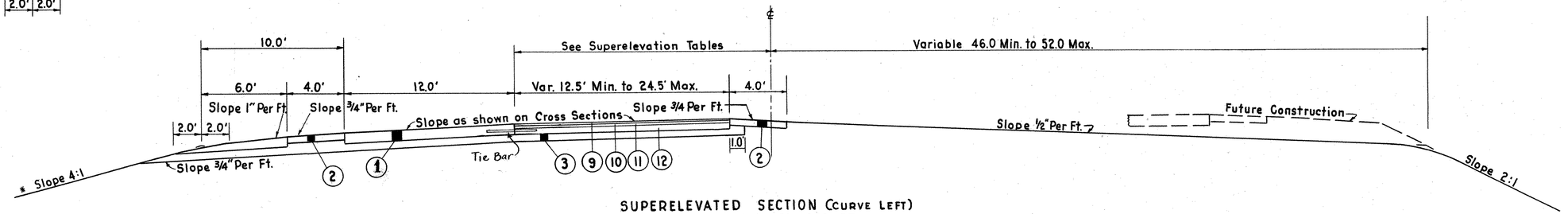
Sta. 612+00.16 BK
= Sta. 612+25.69 Ah

to Sta. 612+99.78



SUPERELEVATED SECTION (CURVE LEFT)

Sta. 612+99.78 to Sta. 639+00



SUPERELEVATED SECTION (CURVE LEFT)

Sta. 639+00 to Sta. 642+07

* Slope 4:1 or as shown on Cross-Sections

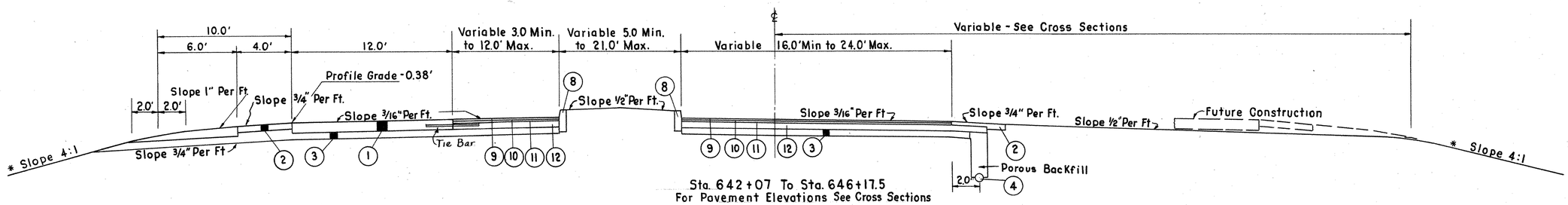
TYPICAL SECTIONS
TYPE T-71 & T-35

Scale 1/4" = 1.0'

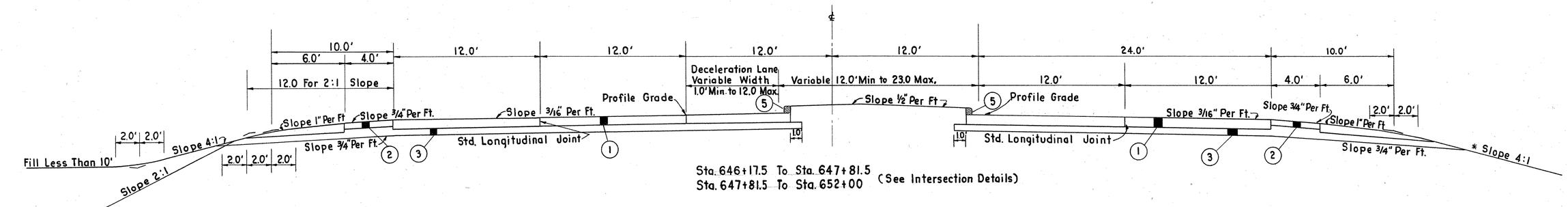
FED ROAD DIVISION	STATE	PROJECT	
	OHIO		

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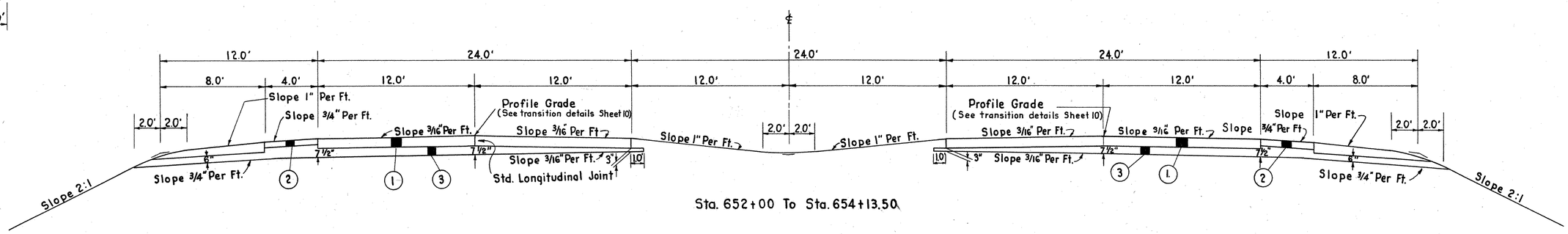
STA-21-11.39



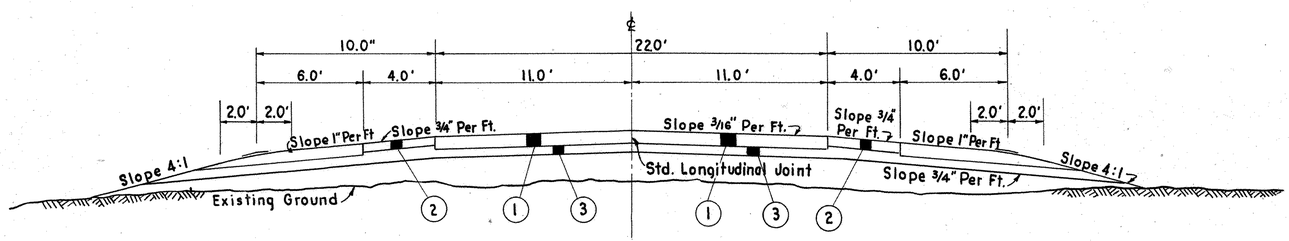
Sta. 642+07 To Sta. 646+17.5
For Pavement Elevations See Cross Sections



Sta. 646+17.5 To Sta. 647+81.5
Sta. 647+81.5 To Sta. 652+00 (See Intersection Details)



Sta. 652+00 To Sta. 654+13.50



TYPICAL SECTION - LAKE AVENUE LT. & RT.

* Slope 4:1 or as shown on Cross-Sections

GENERAL NOTES

Berms And Slopes

Berms and slopes shall be finished in accordance with the typical sections except where otherwise shown or noted on the cross-sections. Although the cross-sections are drawn showing straight lines and angles, in construction all corners shall be rounded as shown on the typical sections or std. dwg. RI-1. All transitions from excavation to embankment slopes shall be blended with the surrounding terrain as directed by the engineer.

Tree And Stump Removal

Payment for removal of all trees and stumps 12" or more in diameter, within the limits of the project, as marked by the Engineer, shall be at the lump sum price bid under Item E-9. No tree shall be removed unless specifically marked for removal by the engineer. The approximate number of trees is 90, which may be increased or decreased at no change in lump sum bid.

Removal [Miscellaneous]

The removal and disposal of existing building foundations, steps, cellar floors, masonry walls, pipes, tanks, pavements, sidewalks (both public and private), driveways, garage floors or any other masonry, lying within the construction limits are classified as excavation and paid for under Item E-1.
Payment for removal of sidewalks, curb and wearing course outside these limits shall be paid for under Item E-8 as designated on the construction drawings.
Pavement, walks, steps, floors, walls or other masonry shall be excavated to a depth of 3 feet below the proposed pavement subgrade, to a depth of 3 feet below finished surface in areas outside the pavement but within the limits of excavation and embankment, and the entire hole filled with suitable embankment material in accordance with section E-1.08 of the Specifications, and as directed by the engineer.

Pavement, walks, floors, or other masonry below the above limits shall be broken into portions whose area does not exceed one square foot but need not be removed. Payment for this operation shall be included in the price bid for Item E-1.

Filling Cellars

All cellars within the right-of-way or slope easement lines shall be filled with suitable embankment material in accordance with section E-1.08 of the Specifications and as directed by the Engineer.

Utility Adjustment

Any and all work required for public or private utilities will be done by and at the expense of their respective owners unless otherwise noted on these plans.

Item I-8 Manhole Special Reconstructed To Grade Using New Casting

The Contractor shall remove existing casting and portion of manhole as required and shall reconstruct manhole to grade as shown on plan using materials designated in Section 1-8.02 of the Specifications.
The frame and the cover shall be of the heavy type shown on the drawing for I-8 Standard Manhole No. 1.
Payment for this item shall be at the contract unit bid price per each for "Item I-8 Manhole Special Reconstructed To Grade Using New Casting, As Per Plan", which price and payment shall constitute full compensation for all excavation, backfill, materials, and for labor, equipment, tools, and incidentals necessary to complete this item.

Item I-8 Manhole Reconstructed To Grade Using Salvaged Casting

All work, materials, etc. for this item shall be the same as the above item, with the exception that the contractor shall use the existing casting.
Payment for this item shall be at the contract unit bid price each for "Item I-8 Manhole Reconstructed To Grade Using Salvaged Casting, as Per Plan", which price and payment shall constitute full compensation for all excavation, backfill, materials and for all labor, equipment, tools, and incidentals necessary to complete this item.

Protection Of Existing Levee And Toe Drain

The Contractor is hereby instructed that all construction work adjacent to or on existing levee, that may disturb existing toe drain, must be protected by shoring or other suitable methods acceptable to the Engineer. This protection shall be considered as part of the requirements of Sec. G.-7.09.

Traffic Note

Two way traffic shall be maintained on Lake Avenue at all times by means of the existing pavement, proposed pavement or temporary roadways surfaced with aggregate and stabilized with Calcium Chloride.
Temporary Roadways shall have a surface course of not less than 20 feet wide with a minimum roadway width of 26 feet. The grades of such temporary roadways shall be approximately the same as those of existing Lake Avenue or as shall be determined by the Engineer. The period of use of such temporary roadways shall not exceed 45 consecutive calendar days. Payment for construction, maintenance and subsequent removal, where required, of temporary roadways, except for M-10 and T-10 items, shall be included in the Lump Sum bid for "Maintaining Traffic".

Castings

All castings from abandoned manholes and catch basins and other castings requiring replacement shall be carefully removed and stockpiled. The City of Massillon will have their choice of selecting the castings they can use. The balance of the castings, if any, shall become the property of the contractor and shall be removed from the site.

Item L-9 Seeding And Protecting

Quantities for seeding are calculated for the soil areas between lines ten feet [10'] outside the construction limits as shown on the cross-sections or to the R/W line if such line is less than 10' from the construction limits. All areas outside these limits where the vegetative growth has been injuriously disturbed or destroyed by the contractor shall be restored and seeded in accordance with the provision of Item L-9 by the contractor at his own expense.

Construction Of Embankment In Bed Of Abandoned Canal

This area shall be cleared and grubbed as required by the Specificatipns but need not be scalped or compacted prior to placement of the new embankment. The bottom 2' feet of the fill in these areas shall be composed of E-4 granular borrow, meeting the requirements of Sec. E-1.02 except that at least 15 per cent of weight of the grains or particles must be retained on a Number 200 sieve. Material may be placed in a single lift by the method of end dumping. Embankment above this level shall be placed in accordance with Section E-1.08 of the Construction and Material Specifications.

Embankment In Peat Removal Area

The peat located within construction limits between Sta. 632+75 to Sta. 634+75 is to be totally excavated and replaced with E-4 Borrow using granular material which meets the requirements for granular material as defined in Sec. E-1.02 except that at least 15 per cent of weight of grains or particles must be retained on a Number 200 sieve.

Field Office

The contractor shall provide a suitable field office in accordance with Section S-0.01 of the Specifications having a minimum floor area of 300 square feet. The contractor shall have a telephone installed and maintained during the construction of this project.

Access Local

The contractor shall provide access to all properties at Cherry Road and on Lake Ave. at all times as directed by the engineer. (See Traffic Note)
Access to properties abutting streets and alleys from Sta. 601+ to Sta. 647+ on the right side of this project shall be provided by the City of Massillon.

Item (Special) Fine Aggregate, As Per Plan

This item shall consist of placing a fine aggregate blanket as shown on sheet no. 3 and on the cross-sections.
Fine Aggregate shall meet the requirements as designated in Section M-2.1 of the Construction and Material Specifications of the State of Ohio.
Quantity to be paid for shall be the number of cubic yards compacted in place in conformity with the lines and grades as shown on the cross-sections of the plan.
The yardage measured as provided above shall be paid for at the contract unit price bid for "Item Special, Fine Aggregate As Per Plan" which price and payment shall constitute full compensation for furnishing, hauling, placing and compacting the aggregate and for all labor, equipment, tools and incidentals necessary to complete this item except excavation which is paid under Item E-1 Roadway Excavation. Compaction shall be in conformity with the requirements of Sec. I-22.03.

Item L-9 Seeding and Protecting (Continued)

The rate of seeding shall be 3 pounds per 1000 square feet and the seed mix used on this project shall be as follows:-

- 20% Kentucky Bluegrass (Poa pratensis)
- 20% Meadow Fescue (Festuca elatior)
- 40% Creeping Red Fescue (Festuca rubra)
- 15% Red Top (Agrostis alba)
- 5% White Dutch Clover (Trifolium repens)

GENERAL SUMMARY

ITEM	QUANTITY	UNIT	DESCRIPTION
			ROADWAY
E-1	14,496	CU. YD.	Roadway Excavation, Suitable Material
E-1	4,000	CU. YD.	Roadway Excavation, Unsuitable Material
E-1	21,407	SQ. YD.	Compacted Subgrade
E-4	107,401	CU. YD.	Borrow
E-4	10,574	CU. YD.	Borrow Using Granular Material as per plan.
E-8	81	SQ. YD.	Removal And Disposal of Existing Wearing Course
E-8	64	LIN. FT.	Removal And Disposal of Existing Curb
E-8	292	SQ. FT.	Removal And Disposal of Existing Sidewalk
E-9	LUMP	LUMP SUM	Removal of Trees And Stumps
E-11	711	M. GAL.	Water
I-15	2,125	LIN. FT.	Guard Rail, Steel Beam Type (Deep)
I-15	60	LIN. FT.	Guard Rail Removed And Rebuilt
L-9	57,208	SQ. YD.	Seeding And Protecting, as per plan.
L-9	5.21	TON	Commercial Fertilizer (12-12-12)
L-9	26.07	TON	Agricultural Liming Materials
L-10	720	SQ. YD.	Sodding
S.S-18	6,331	LIN. FT.	Right of Way Fence, Type "C"
M-10	8	TON	Calcium Chloride, furnished and applied for Maintaining Traffic.
T-10	400	CU. YD.	Traffic Compacted Surface Course for Maintaining Traffic.
I-18	581	CU. YD.	Stabilized Crushed Aggregate Shoulders and Approaches
			DRAINAGE
S-22	32	CU. YD.	Removal of Portion of Existing Structure
E-12	44	LIN. FT.	18" Pipe Removed
E-2	340	CU. YD.	Excavation For Structures
I-2	688	LIN. FT.	12" Class "B" Storm Sewers Under Pavement or Approaches
I-2	186	LIN. FT.	15" Class "B" Storm Sewers Under Pavement or Approaches
I-2	154	LIN. FT.	36" Class "B" Storm Sewers Under Pavement or Approaches
I-2	306	LIN. FT.	42" Class "B" Storm Sewers Under Pavement or Approaches
I-2	90	LIN. FT.	21" Class "B" Storm Sewers
I-2	12	LIN. FT.	36" Class "B" Storm Sewers
S-27	126	LIN. FT.	54" Pipe For Roadway Culvert
S-27	152	LIN. FT.	15" Standard Strength Reinforced Concrete Culvert Pipe Sec. M-6.6 (b) or Extra Strength Vitrified Sewer Pipe Sec. M-6.8 (b) For Roadway Culverts
I-4	1912	LIN. FT.	8" Underdrains, as per plan
I-4	914	LIN. FT.	6" Underdrains
I-4	44	LIN. FT.	6" Outlet For Underdrains, Sec. M-6.4 (h) without perforations.
I-8	2	EACH	Standard No. 1 Manholes
I-8	2	EACH	Standard No. 2 Manholes
I-8	2	EACH	Manholes Adjusted to Grade
I-8	7	EACH	Manholes, Special, Reconstructed to Grade, Using New Castings, As Per Plan
I-8	2	EACH	Manholes Reconstructed to Grade Using Salvaged Castings As Per Plan
I-8	1	EACH	Catch Basin Standard No. 1-2-A
I-8	1	EACH	Catch Basin Standard No. 2-2-A
I-8	2	EACH	Catch Basins Standard No. 2-2-A Modified as per plan
I-8	1	EACH	Inlets Standard No. 2-6
I-8	7	EACH	Inlets Standard No. 2-10
I-8	2	EACH	Inlets Standard No. 2-14
I-8	9	EACH	Standard Monument Boxes.
I-10	14	CU. YD.	Dumped Rock Fill
I-14	86	LIN. FT.	Paved Gutter, Standard Type 1
I-14	1,685	LIN. FT.	Paved Gutter, Standard Type 2
I-14	185	LIN. FT.	Paved Gutter, Standard Type 4 Modified As Per Plan
I-16	3	EACH	Catch Basins Abandoned
S-1	7.4	CU. YD.	Concrete For Structures, Class "C"

ITEM	QUANTITY	UNIT	DESCRIPTION
			DRAINAGE
S-1	7.7	CU. YD.	Concrete For Structures, Class "E"
S-4	208	LB.	Reinforcing Steel
Special	2757	CU. YD.	Fine Aggregate, As Per Plan
			PAVEMENT
B-35	108	CU. YD.	Asphaltic Concrete Leveling Couse (70-80)
B-119	444	CU. YD.	Crushed Aggregate Base Course
T-30	901	GAL.	Bituminous Prime Coat, Sec. M-5.7 RT-2 Or 3 Or Sec. M-5.3 MC-0 Or MC-1
T-35	108	CU. YD.	Asphaltic Concrete Surface Course, Type "C" (70-80)
T-71	18,810	SQ. YD.	9" Reinforced Portland Cement Concrete Pavement
I-12	4,802	LIN. FT.	Concrete Curb, Standard Type 2-A
I-12	1,190	LIN. FT.	Concrete Curb, Standard Type 6
T-70	24	SQ. YD.	7" Portland Cement Concrete Pavement
I-21	106	SQ. YD.	Portland Cement Concrete Median Pavement, Standard Type 1
I-22	5,182	CU. YD.	Subbase, Grading "A" Or "B"
I-23	6	EACH	Precast White Portland Cement Concrete Traffic Dividers

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SUMMARY OF QUANTITIES

ON SHEET NO.		E-2	E-8 REMOVAL & DISPOSAL			E-12	I-2 STORM SEWERS							S-27 PIPE FOR ROADWAY CULVERT		I-8													I-16	I-10	S-1 CONC. FOR STRUCTURES		S-4	S-22	S8-18	I-15	I-23		L-9	E-1			
							Class B Storm Sewers Under Pavt. or Approaches				Class B Storm Sewer						Manholes					Catch Basins		Inlets																				
		Exc. For Structures Cu. Yd.	Exist. Wearing Surface Asphalt Sq. Yd.	Exist. Curb Lin. Ft.	Exist Sidewalk Sq. Ft.	Pipe Removed 18" Lin. Ft.	12" Lin. Ft.	15" Lin. Ft.	36" Lin. Ft.	42" Lin. Ft.	21" Lin. Ft.	36" Lin. Ft.		15" Std. Str. R.C.C. Pipe or Ex Str. V.S. Pipe Lin. Ft.	54" Lin. Ft.	Monument Boxes	Std. No. 1	Std. No. 2	Special Reconst. to grade Using New Casting	Reconst. to grade Using Salvaged Casting	Adjusted to grade	No. 1-2-A	No. 2-2-A Modified	No. 2-2-A	No. 2-6	No. 2-10	No. 2-14	Catch Basin Abandoned	Dumped Rock Fill Cu. Yd.	Class C Cu. Yd.	Class E Cu. Yd.	Reinf. Steel Lb	Removal of Portion of Existing Structures Cu. Yd.	Right of Way Fence Type C Chain Link Lin. Ft.	Guard Rail Steel Beam Type (Deep)	Precast White P.C.C. Traffic Dividers		Seeding and Protecting Sq. Yd.	Roadway Excavation Suitable Material Cu. Yd.	Embankment Cu. Yd.	Embankment + 25 % Cu. Yd.
14			25				112									1		1	* 2	** 1		1	1			1					340								1525	407	4024	5030
15		5		28	76		50	86								1		1	* 1						1	1		1		1.50		44		487	62.5			4301	301	7410	9263
16							256	100								2			** 1	* 1			1			2							475				3167	530	3061	3826
17		6	20	16	56					306	90	12				1	1		* 2							1				1.20	0.76	30		515	50.0			4813	2052	5254	6568
18		2	36	20	160		50																			1				0.65		20		516	25.0			5509	4150	1238	1548
19		256													126				* 1		* 1										4.76			517				7739	2192	13251	16564
20		2					106																			1	1			0.65	0.23	20		516				6273	1106	7357	9196
21		1					46									1											1				0.23			519				5945	1412	5037	6296
22		66				44								152		1														2.70		74		766		6		7296	746	18989	23736
23									154							1	1											2	14		1.73		32	848				4581	610	15312	19140
24		2					68									1									1					0.65		20		832				5065	101	19005	23756
25																				* 1																		1114	389	678	848
																																								⊕	⊕
TOTALS		340	81	64	292	44	688	186	154	306	90	12		152	126	9	2	2	7	2	2	1	2	1	1	7	2	3	14	7.35	7.71	208	32	6,331	137.5	6		57,928	13996	100,616	125,771

* Manholes On Sanitary Sewers
** Manholes On Storm Sewers

⊕ These Quantities Include Embankment With Granular Material. See General Notes - Sheet No. 6.

CALCULATIONS

T-71 9" REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT

Sta.	to Sta.	Length	Width	Sq. Yds.	
G00+98.24	G01+69	70.76	52.0	408.84	
601+69	603+95	226.00	50.0	1255.56	
603+95	639+00	3470.04	25.0	9639.00	Length based on ℄ Lt. Lanes
639+00	646+17.5	717.50	12.0	956.67	
646+17.5	647+81.5	164.00	72.0	1156.44	(Deducted 155.56 S.Y. for Islands)
647+81.5	649+63	181.50	62.0	1250.33	
649+63	651+88	225.00	62.0 to 51.0	1412.50	Average Width 56.5'
651+88	654+13.5	225.50	48.0	1202.67	
Cherry Road Returns (Planimeter Areas)				358.22	
Lake Ave. Lt. (including Drive Lt.) See Sheet No. 25				726.48	
Lake Ave. Rt. See Sheet No. 25				435.10	
Additional At Sta. 651+88 - 652+00				12.80	
				18,815.21	Sq. Yds.
Deduction for Inlets				-5.54	" "
Total Item T-71				18,809.67	Sq. Yds.

L-9 SEEDING AND PROTECTING, AS PER PLAN

From Summary of Quantities Tabulation	57,928	Sq. Yds.
Deductions for Sodded Ditches	-720	" "
Total	57,208	Sq. Yds.

L-9 COMMERCIAL FERTILIZER (12-12-12)

57,208 Sq. Yds. Seeding + 720 Sq. Yds. Sodding = 57,928 Sq. Yds.
57,928 × 9 × $\frac{20}{1000}$ ÷ 2000 = 5.21 Tons

L-9 AGRICULTURAL LIMING MATERIALS

57,928 × 9 × $\frac{100}{1000}$ ÷ 2000 = 26.07 Tons

L-10 SODDING

Sta. 618+00 to 619+00 Rt.	72	Sq. Yds.
Sta. 626+00 to 629+00 Rt.	200	" "
Sta. 644+05 to 646+00 Rt.	88	" "
Sta. 643+25 to 645+75 Lt.	360	" "
Total	720	Sq. Yds.

PIPE UNDERDRAIN LOCATIONS

Beginning Station	Ending Station	Side	F.L. At Beginning	F.L. At End	% Grade	6" Underdrain Lin. Ft.	6" Outlet For Underdrain Lin. Ft.
602+22	603+60	Rt.	933.56	934.94	1.00	138	
606+00	609+96	Rt.	936.64	934.66	0.50	396	
641+20	645+00	Rt.	943.16	941.26	0.50	380	
645+00	645+25	Rt.	941.26	941.04	0.50		44
					TOTALS	914	44

T-35 1½" ASPHALTIC CONCRETE SURFACE COURSE TYPE C (70-80)

Sta. 603+95 to 608+80	6666	Sq. Ft.
Sta. 639+00 to 646+17.5	16,494	" "
Total	23,160	Sq. Ft.

23,160 × 1.50 ÷ 324 = 107.22 Cu.Yds.

B-35 1½" ASPHALTIC CONCRETE LEVELING COURSE (70-80)

23,160 × 1.50 ÷ 324 = 107.22 Cu. Yds.

T-30 BITUMINOUS PRIME COAT

23,160 ÷ 9 × 0.35 Gal. per Sq. Yd. = 901 Gal.

B-119 6" CRUSHED AGGREGATE BASE COURSE

23,160 × 6.0 ÷ 3.24 = 428.89 Cu. Yds
Drive, Lt. (See Sh. 25) 14.20 " "
Total 443.09 Cu. Yds.

E-1 ROADWAY EXCAVATION, UNSUITABLE MATERIAL

Sta. 632+75 to 634+75 4000 Cu. Yds.
Remove Unsuitable Material in swamp area as shown on cross-sections or as directed during construction.

E-1 ROADWAY EXCAVATION, SUITABLE MATERIAL

From Summary of Quantities tabulation	13,996	
Additional estimate for miscellaneous removal of building foundations, floors, sidewalks, etc.	500	
Total	14,496	

E-1 COMPACTED SUBGRADE

Under Item T-71	18,833.27	Sq. Yds.
Under Item B-119	2,573.33	" "
Total	21,406.60	Sq. Yds.

EMBANKMENT

From Summary of Quantities tabulation	125,771	Cu.Yds.
Additional estimate for filling cellars	1,200	" "
Total	126,971	Cu. Yds.
Deduct embankment with granular material (see computations)	- 5,574	" "
Total	121,397	Cu. Yds.

E-4 BORROW

Total Embankment	121,397	Cu. Yds.
Available Excavation	13,996	" "
Borrow	107,401	Cu. Yds.

E-4 BORROW USING GRANULAR MATERIAL

Unsuitable Material Backfill 4000 C.Y. + 25 %	5000	Cu. Yds.
Embankment with granular material (See Comp's)	5574	" "
Total	10574	Cu. Yds.

E-11 WATER

Subgrade 21,407 Sq.Yds. 1'-0" depth = 21,407 × 1 ÷ 3 = 7,136 Cu.Yds.
Embankment (From Summary of Quantities tabulation) = 125,771
Total 132,907 × 5.0 ÷ 1000 = 664.54 M. Gal.

Subbase	5182	Cu.Yds.
Stabilized crushed aggregate shoulders	581	" "
Total	5763 × 8.0 ÷ 1000 =	46.10 M. Gal.
	Total	710.64 M. Gal.

E-9 LUMP SUM REMOVAL OF TREES AND STUMPS

I-12 CONCRETE CURB STANDARD TYPE 6

Sta. 603+95 - 606+44.5	256.00	Lin. Ft.
Sta. 642+07 - 646+71	938.00	" "
	1194.00	Lin. Ft.
Deductions for Inlets	4.00	" "
Total	1190.00	Lin. Ft.

I-12 CONCRETE CURB STANDARD TYPE 2-A

Sta. 601+ Radius Lt.	109.00	Lin. Ft.
Sta. 601+ Radius Rt.	119.00	" "
Sta. 601+70 to 603+95	459.00	" "
Sta. 603+95 to 606+44.5	248.00	" "
Sta. 608+80 to 639+00	2994.50	" "
Sta. 647+38 to 651+99	936.00	" "
	4865.50	Lin. Ft.
Deduction for Inlets	-64.00	" "
Total	4801.50	Lin. Ft.

I-14 PAVED GUTTER STANDARD TYPE 1

Sta. 637+90 to Sta. 638+40 Rt.	50	Lin. Ft.
Sta. 652+30 to Sta. 652+60 Rt.	36	Lin. Ft.
Total	86	Lin. Ft.

I-14 PAVED GUTTER STANDARD TYPE 2

Sta. 601+20 to Sta. 612+95 Lt.	1161.00	Lin. Ft.
Sta. 614+80 to Sta. 620+10 Lt.	524.00	Lin. Ft.
Total	1685.00	Lin. Ft.

I-14 PAVED GUTTER STANDARD TYPE 4 (Modified as Per Plan)

STA. To STA.	SIDE	LENGTH	AV. WIDTH
612+95 - 613+59.8	Lt.	64.8'	4.6'
613+59.8 - 614+19.8	Lt.	60.0'	4.8'
614+19.8 - 614+80	Lt.	60.2'	4.9'
Total			185 Lin. Ft.

I-15 GUARD RAIL

STA. To STA.	SIDE	LENGTH
619+38 - 628+62	Lt.	912.50 Lin. Ft.
640+51.5 - 645+89	Lt.	537.50 Lin. Ft.
651+01.0 - 654+13.5	Lt.	312.50 Lin. Ft.
651+88.5 - 654+13.5	Rt.	225.00 Lin. Ft.
Total		1987.50 Lin. Ft.

I-15 GUARD RAIL REMOVED & REBUILT

Sta. 601+ Radius 60 Lin. Ft.

I-18 6" STABILIZED CRUSHED AGGREGATE SHOULDERS

Sta. 601+40 to Sta. 646+17.5	Lt.	4452.00 Lin. Ft.	4'-0" Wide
Sta. 602+18 to Sta. 608+80	Rt.	662.00 Lin. Ft.	4'-0" Wide
Sta. 639+00 to Sta. 646+17.5	Rt.	719.00 Lin. Ft.	4'-0" Wide
Sta. 647+81.5 to Sta. 654+13.5	Lt.	632.00 Lin. Ft.	4'-0" Wide
Sta. 647+81.5 to Sta. 654+13.5	Rt.	632.00 Lin. Ft.	4'-0" Wide
Total		7097.00 Lin. Ft	

7097.00' × 4.0' × 6.0' ÷ 324 525.70 Cu.Yds.
Lake Avenue Lt. & Rt. (See Sheet # 25) 55.26 Cu. Yds.
Total 580.96 Cu.Yds.

I-21 PORTLAND CEMENT CONCRETE MEDIAN PAVEMENT TYPE 1

Sta. 601+69 to Sta. 606+44 475.00 Lin. Ft. 2'-0" Wide
475.00 × 2.0 ÷ 9 = 105.55 Sq. Yds.

I-22 SUBBASE, GRADING A or B

Main Line (See Computations)	4929.00 Cu.Yds.
Lake Avenue Lt. & Rt. (See Sheet # 25)	253.00 Cu.Yds.
Total	5182.00 Cu.Yds.

SAND AGGREGATE AND 8" UNDERDRAIN

Station to Station	ITEM - SPECIAL Fine Aggregate Cu. Yds.	ITEM I-4 8" Underdrain Lin. Ft.
601+00 - 601+75		75
601+79 - 610+01		822
610+05 - 611+80		175
611+84 - 619+00		690
641+05 Lt. - 642+04 Rt.		150
601+00 - 605+00	571	
605+00 - 610+00	725	
610+00 - 615+00	638	
615+00 - 619+00	623	
641+05 - 642+35	200	
TOTAL	2757	1912

7" T-70 (See Sheet 25) 23.6 Sq. Yds.

SUPERELEVATION

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Inside Edge Transition	LEFT OF ℄ Outside Edge Distance	Outside Edge Elevation	Left Lane ℄ Distance	Left Lane ℄ Elevation	Inside Edge Distance	Inside Edge Elevation	Super Elevation	Station	℄ Grade
						See Intersection Details →		601 +00	938.88
								+25	938.64
	28'	939.98	14'	939.28	0'	938.58	+1.40'	+40BK	938.58
	26'	939.88	14'	939.28	0'	938.58	+1.30'	+40AH	938.58
	26'	939.86	14'	939.26	0'	938.56	+1.30	+50	938.56
	26'	939.84	14'	939.24	2'	938.64	+1.20	+75	938.64
		940.07		939.47		938.87		602 +00	938.87
		940.38		939.78		939.18		+25	939.18
		940.68		940.08		939.48		+50	939.48
		940.99		940.39		939.79		+75	939.79
		941.30		940.70		940.10		603+00	940.10
		941.61		941.01		940.41		+25	940.41
		941.86		941.26		940.66		+46	940.66
		941.91		941.31		940.71		+50	940.71
		942.19		941.59		940.99		+75	940.99
		942.43		941.83		941.23		604+00	941.23
		942.61		942.01		941.41		+25	941.41
		942.73		942.13		941.53		+50	941.53
		942.81		942.21		941.61		+75	941.61
		942.83		942.23		941.63		605 +00	941.63
		942.81		942.21		941.61		+25	941.61
		942.73		942.13		941.53		+50	941.53
		942.59		941.99		941.39		+75	941.39
		942.42		941.82		941.22		606 +00	941.22
		942.21		941.61		941.01		+25	941.01
		942.00		941.40		940.80		+50	940.80
		941.79		941.19		940.59		+75	940.59
		941.59		940.99		940.39		607+00	940.39
	26'	941.39	14'	940.79	2'	940.19		+25	940.19
		941.18		940.58		939.98		+50	939.98
		940.97		940.37		939.77		+75	939.77
		940.77		940.17		939.57		608 +00	939.57
		940.56		939.96		939.36		+25	939.36
		940.35		939.75		939.15		+50	939.15
		940.22		939.62		939.02	+1.20	+66	939.02
		940.14		939.54		938.94	+1.20	+75	938.94
		939.92		939.33		938.74	+1.18	609 +00.16	938.74
		939.57		939.03		938.49	+1.08	+30.16	938.49
		939.20		938.72		938.24	+0.96	+60.16	938.24
		938.83		938.41		937.99	+0.84	+90.16	937.99
		938.71		938.31		937.91	+0.80	610 +00	937.91
		938.47		938.11		937.75	+0.72	+20.16	937.75
		938.10		937.80		937.50	+0.60	+50.16	937.50
		937.73		937.49		937.25	+0.48	+80.16	937.25
		937.49		937.29		937.09	+0.40	611 +00	937.09
		937.36		937.18		937.00	+0.36	+10.16	937.00
		937.00		936.88		936.76	+0.24	+40.16	936.76
		936.63		936.57		936.51	+0.12	+70.16	936.51
		936.27		936.27		936.27	0.00	+99.47	936.27
								612+00.16BK	
		936.26		936.26		936.26	0.00	612+25.69AH	936.26
		935.96		936.04		936.11	-0.15	+50	936.11
		935.75		935.90		936.05	-0.30	+75	936.05
		935.72		935.91		936.10	-0.38	+99.78	936.10
		935.87		936.06		936.25	-0.38	613 +25	936.25
		935.91		936.10		936.29	-0.38	+29.78	936.29
	26'	936.15	14'	936.34	2'	936.53	-0.38	+59.78	936.53

Inside Edge Transition	LEFT OF ℄ Outside Edge Distance	Outside Edge Elevation	Left Lane ℄ Distance	Left Lane ℄ Elevation	Inside Edge Distance	Inside Edge Elevation	Super Elevation	Station	℄ Grade
See Intersection Details →									
	26'	936.38	14'	936.58	2'	936.77	-0.39	613+89.78	936.77
		936.44		936.65		936.85	-0.41	614+00	936.85
		936.54		936.77		937.01	-0.47	+19.78	937.01
		936.66		936.96		937.25	-0.59	+49.78	937.25
		936.78		937.14		937.49	-0.71	+79.78	937.49
		936.86		937.26		937.65	-0.79	615+00	937.65
		936.91		937.32		937.73	-0.82	+09.78	937.73
		937.03		937.50		937.97	-0.94	+39.78	937.97
		937.15		937.68		938.21	-1.06	+69.78	938.21
		937.30		937.87		938.45	-1.15	+99.78	938.45
		937.45		938.04		938.63	-1.18	616+23	938.63
		937.67		938.26		938.85		+50	938.85
		937.87		938.46		939.05		+75	939.05
		938.07		938.66		939.25		617+00	939.25
		938.09		938.68		939.27		+02	939.27
		938.16		938.75		939.34		+11	939.34
		938.27		938.86		939.45		+25	939.45
		938.47		939.06		939.65		+50	939.65
		938.67		939.26		939.85		+75	939.85
		938.87		939.46		940.05		618+00	940.05
		939.07		939.66		940.25		+25	940.25
		939.27		939.86		940.45		+50	940.45
		939.47		940.06		940.65		+75	940.65
		939.67		940.26		940.85		619+00	940.85
		939.87		940.46		941.05		+25	941.05
		940.07		940.66		941.25		+50	941.25
	26'	940.27	14'	940.86	2'	941.45	-1.18	+75	941.45
		940.47		941.06		941.65		620+00	941.65
		940.67		941.26		941.85		+25	941.85
		940.87		941.46		942.05		+50	942.05
		941.07		941.66		942.25		+75	942.25
		941.27		941.86		942.45		621+00	942.45
		941.47		942.06		942.65		+25	942.65
		941.67		942.26		942.85		+50	942.85
		941.87		942.46		943.05		+75	943.05
		942.07		942.66		943.25		622+00	943.25
		942.27		942.86		943.45		+25	943.45
		942.47		943.06		943.65		+50	943.65
		942.67		943.26		943.85		+75	943.85
		942.87		943.46		944.05		623+00	944.05
		943.07		943.66		944.25		+25	944.25
		943.25		943.84		944.43		+50	944.43
		943.39		943.98		944.57		+75	944.57
		943.48		944.07		944.66		624+00	944.66
		943.54		944.13		944.72		+25	944.72
		943.55		944.14		944.73		+50	944.73
		943.53		944.12		944.71		+75	944.71
		943.46		944.05		944.64		625+00	944.64
		943.35		943.94		944.53		+25	944.53
		943.20		943.79		944.38		+50	944.38
		943.01		943.60		944.19		+75	944.19
		942.77		943.36		943.95		626+00	943.95
		942.50		943.09		943.68		+25	943.68
		942.18		942.77		943.36		+50	943.36
	26'	941.83	14'	942.42	2'	943.01	-1.18	+75	943.01

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

10
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STA. - 21 - 11.39

SUPERELEVATION

Inside Edge Transition	LEFT OF ℄						Super Elevation	Station	℄ Grade
	Outside Edge		Left Lane ℄		Inside Edge				
	Distance	Elevation	Distance	Elevation	Distance	Elevation			
	26'	941.43	14'	942.02	2'	942.61	-1.18	627 +00	942.61
		940.99		941.58		942.17		+25	942.17
		940.53		941.12		941.71		+50	941.71
		940.42		941.01		941.60		+56	941.60
		940.01		940.60		941.19		+78	941.19
		939.65		940.24		940.83		+98	940.83
		939.61		940.20		940.79		628 +00	940.79
		939.02		939.61		940.20		+32	940.20
		938.69		939.28		939.87		+50	939.87
		938.23		938.82		939.41		+75	939.41
		937.77		938.36		938.95		629 +00	938.95
		937.31		937.90		938.49		+25	938.49
		936.85		937.44		938.03		+50	938.03
		936.39		936.98		937.57		+75	937.57
		935.93		936.52		937.11		630 +00	937.11
		935.47		936.06		936.65		+25	936.65
	26'	935.01	14'	935.60	2'	936.19	-1.18	+50	936.19
		934.55		935.14		935.73		+75	935.73
		934.09		934.68		935.27		631 +00	935.27
		933.68		934.27		934.86		+25	934.86
		933.32		933.91		934.50		+50	934.50
		933.04		933.63		934.22		+75	934.22
		932.81		933.40		933.99		632 +00	933.99
		932.65		933.24		933.83		+25	933.83
		932.56		933.15		933.74		+50	933.74
		932.52		933.11		933.70		+75	933.70
		932.56		933.15		933.74		633 +00	933.74
		932.65		933.24		933.83		+25	938.83
		932.81		933.40		933.99		+50	933.99
		933.03		933.62		934.21		+75	934.21
		933.31		933.90		934.49		634 +00	934.49
		933.67		934.26		934.85		+25	934.85
		934.08		934.67		935.26		+50	935.26
	26'	934.54	14'	935.13	2'	935.72	-1.18	+75	935.72

Inside Edge Transition	LEFT OF ℄						Super Elevation	Station	℄ Grade
	Outside Edge		Left Lane ℄		Inside Edge				
	Distance	Elevation	Distance	Elevation	Distance	Elevation			
	26.00'	935.00	14.00'	935.59	2.00'	936.18	-1.18	635 +00	936.18
	26.00'	935.46	14.00'	936.05	2.00'	936.64		+25	936.64
	26.00'	935.91	14.00'	936.50	2.00'	937.09		+50	937.09
	26.00'	936.37	14.00'	936.96	2.00'	937.55		+75	937.55
	26.00'	936.83	14.00'	937.42	2.00'	938.01		636 +00	938.01
	26.40'	937.29	14.40'	937.88	2.40'	938.47		+25	938.47
	26.80'	937.75	14.80'	938.34	2.80'	938.93		+50	938.93
	27.20'	938.21	15.20'	938.80	3.20'	939.39		+75	939.39
	27.60'	938.66	15.60'	939.25	3.60'	939.84		637 +00	939.84
	28.00'	939.12	16.00'	939.71	4.00'	940.30		+25	940.30
	28.40'	939.58	16.40'	940.17	4.40'	940.76		+50	940.76
	28.80'	940.04	16.80'	940.63	4.80'	941.22		+75	941.22
	29.20'	940.50	17.20'	941.09	5.20'	941.68		638 +00	941.68
	29.60'	940.96	17.60'	941.55	5.60'	942.14		+25	942.14
	30.00'	941.42	18.00'	942.01	6.00'	942.60		+50	942.60
	30.40'	941.87	18.40'	942.46	6.40'	943.05		+75	943.05
	30.80'	942.33	18.80'	942.92	6.80'	943.51	-1.18	639 +00	943.51
	31.21'	942.55	19.21'	943.14	7.21'	943.73	-1.18	+12.08	943.73
	32.23'	943.20	20.23'	943.73	8.23'	944.26	-1.06	+42.08	944.26
	33.24'	943.80	21.24'	944.27	9.24'	944.71	-0.94	+72.08	944.74
	34.20'	944.33	22.20'	944.74	10.20'	945.16	-0.83	640 +00	945.16
	34.23'	944.36	22.23'	944.77	10.23'	945.18	-0.82	-02.08	945.18
	34.71'	944.87	22.71'	945.22	10.71'	945.58	-0.71	+32.08	945.58
	35.19'	945.36	23.19'	945.65	11.19'	945.95	-0.59	+62.08	945.95
	35.67'	945.80	23.67'	946.03	11.67'	946.27 *	-0.47	+92.08	946.27
	35.80'	945.90	23.80'	946.12	11.80'	946.34	-0.44	641 +00	946.34
	35.84'	946.16	23.84'	946.35	11.84'	946.54	-0.38	+22.08	946.54
	35.90'	946.39	23.90'	946.58	11.90'	946.77	-0.38	+52.08	946.77
	35.96'	946.58	23.96'	946.77	11.96'	946.96	-0.38	+82.08	946.96
	36.00'	946.67	24.00'	946.86	12.00'	947.05	-0.38	642 +00	947.05
	36.00'	946.72	24.00'	946.91	12.00'	947.10	-0.38	+12.08	947.10
	36.00'	946.85	24.00'	947.04	12.00'	947.23	-0.38	+50	947.23
	36.00'	946.92	24.00'	947.11	12.00'	947.30	-0.38	643 +00	947.30

* These Elevations Are Used For Determining Left Outside Lane Elevations.
For Flexible Pavement ELevations - See Cross Sections.

PAVEMENT ELEVATIONS FOR TRANSITION OF PROFILE GRADE STA. 652+00 TO STA. 653+50

LEFT OF ℄						Station	Profile Grade	RIGHT OF ℄					
Outside Edge		Left Lane ℄		Inside Edge				Inside Edge		Right Lane ℄		Outside Edge	
Elevation	Transition	Elevation	Transition	Elevation	Transition			Transition	Elevation	Transition	Elevation	Transition	Elevation
944.02	-0.38	944.21	-0.19	944.40	-0.00	652+00	944.40	-0.00	944.40	-0.19	944.21	-0.38	944.02
944.34	-0.34	944.52	-0.16	944.65	-0.03	+25	944.68	-0.03	944.65	-0.16	944.52	-0.34	944.34
944.71	-0.31	944.89	-0.13	944.96	-0.06	+50	945.02	-0.06	944.96	-0.13	944.89	-0.31	944.71
945.15	-0.28	945.34	-0.09	945.34	-0.09	+75	945.43	-0.09	945.34	-0.09	945.34	-0.28	945.15
945.64	-0.25	945.83	-0.06	945.76	-0.13	653+00	945.89	-0.13	945.76	-0.06	945.83	-0.25	945.64
946.20	-0.22	946.39	-0.03	946.26	-0.16	+25	946.42	-0.16	946.26	-0.03	946.39	-0.22	946.20
946.80	-0.19	946.99	-0.00	946.80	-0.19	+50	946.99	-0.19	946.80	-0.00	946.99	-0.19	946.80

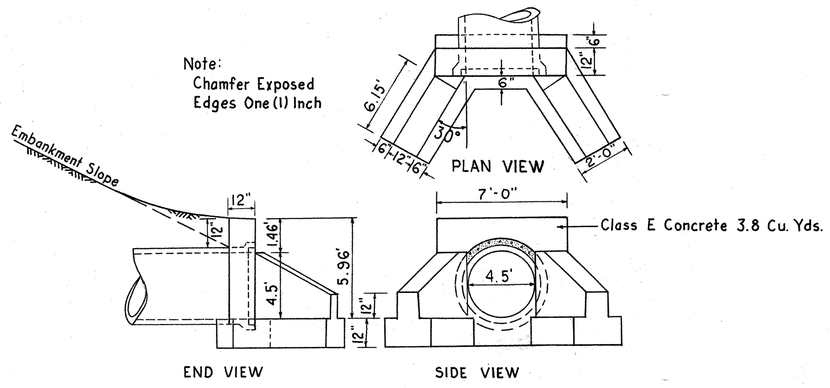
FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

11/61

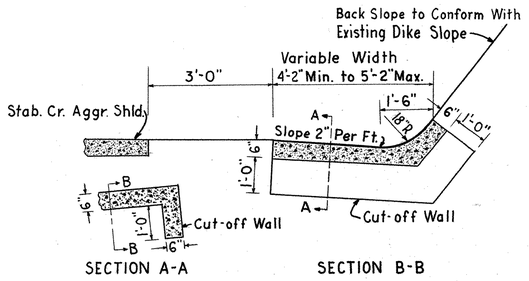
SUPERELEVATION RT. LANE

Station	℄ Grade	Super Elevation	RIGHT OF ℄					
			Inside Edge		Right Lane ℄		Outside Edge	
			Distance	Elevation	Distance	Elevation	Distance	Elevation
601+00	938.88							
+25	938.64							
+40BK	938.58							
+40AH	938.58	See Intersection Details						
+50	938.56							
+75	938.64							
602+00	938.87							
+25	939.18	-1.20	2'	939.18	14'	938.58	26'	937.98
+50	939.48			939.48		938.88		938.28
+75	939.79			939.79		939.19		938.59
603+00	940.10			940.10		939.50		938.90
+25	940.41			940.41		939.81		939.21
+46	940.66			940.66		940.06		939.46
+50	940.71			940.71		940.11		939.51
+75	940.99			940.99		940.39		939.79
+95	941.18	-1.20	2'	941.18	14'	940.58	26'	939.98
604+00	941.23			941.23				

Note:
Chamfer Exposed
Edges One (1) Inch

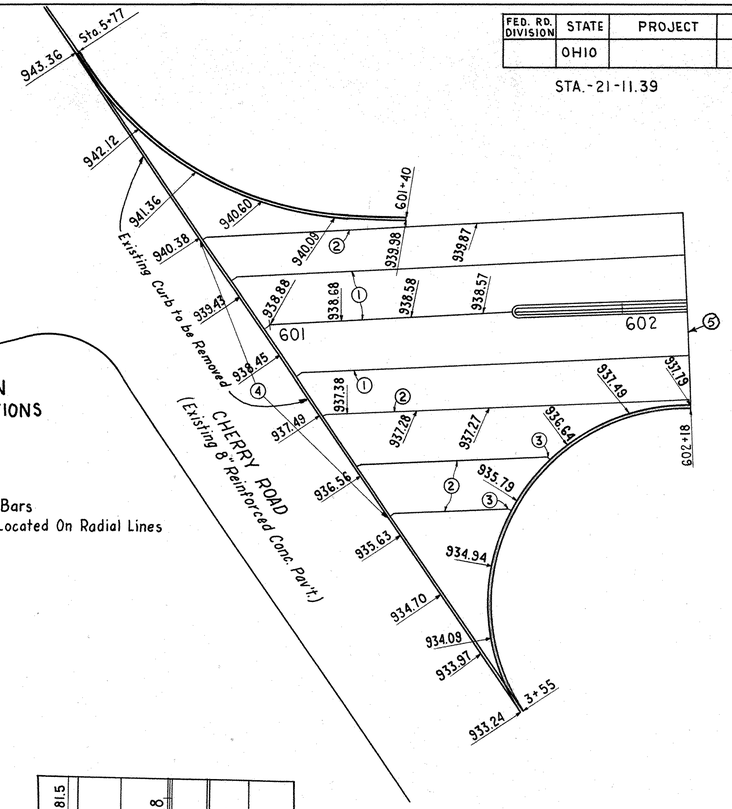


DETAILS FOR ENDWALL STA. 629+00 RT.
(Not Drawn to Scale)



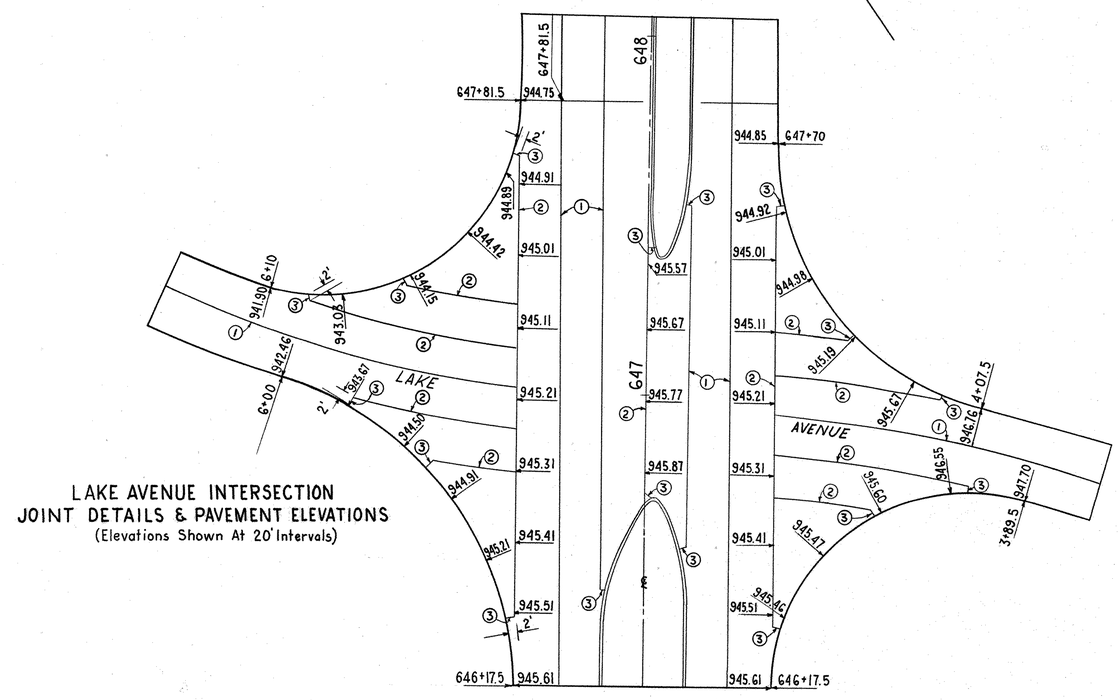
TYPICAL SECTION OF GUTTER
STA. 612+95 TO STA. 614+80 LT.

STA.-21-11.39



CHERRY ROAD INTERSECTION
JOINT DETAILS & PAVEMENT ELEVATIONS
(Elevations Shown At 20' Intervals)

LEGEND (For Pavement Joints)
① Standard Longitudinal Joint
② Standard Key Joint Without Tie Bars
③ Expansion Joint Without Dowels Located On Radial Lines
④ Standard Expansion Bolt Joint
⑤ Standard Expansion Joint



LAKE AVENUE INTERSECTION
JOINT DETAILS & PAVEMENT ELEVATIONS
(Elevations Shown At 20' Intervals)

SUPERELEVATION TABLES JOINT AND PAVEMENT DETAILS AND DRAINAGE DETAILS

FED RD DIVISION	STATE	PROJECT	
	OHIO		

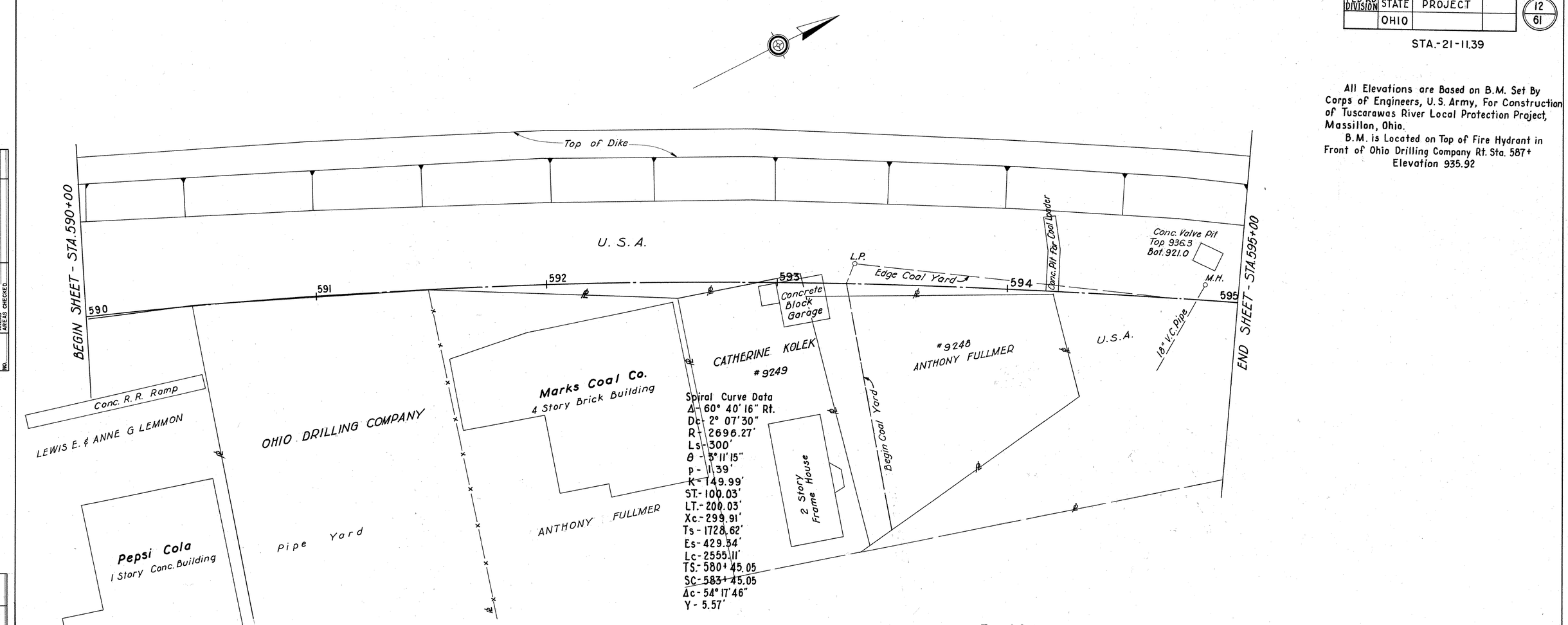
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STA.-21-11.39

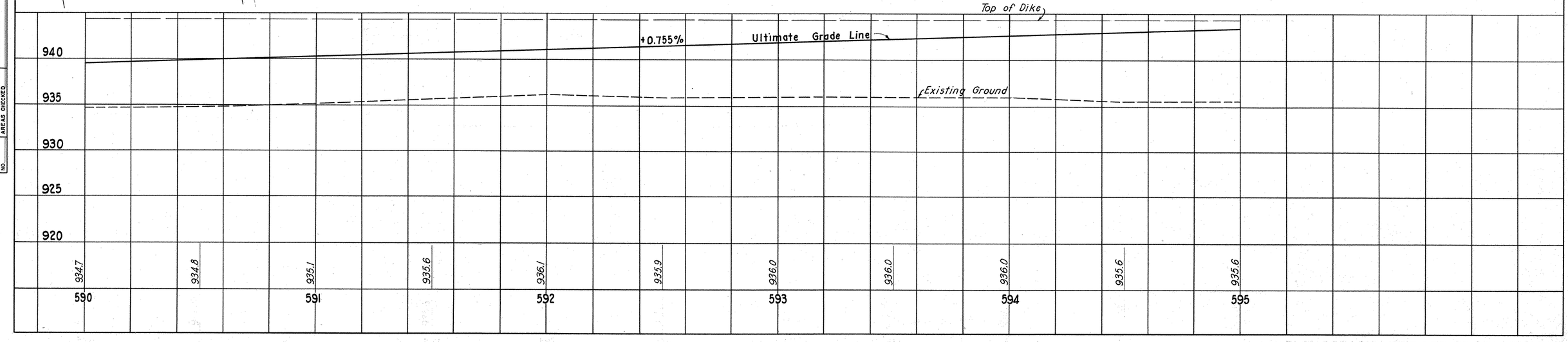
All Elevations are Based on B.M. Set By Corps of Engineers, U.S. Army, For Construction of Tuscarawas River Local Protection Project, Massillon, Ohio.

B.M. is Located on Top of Fire Hydrant in Front of Ohio Drilling Company Rt. Sta. 587+ Elevation 935.92

FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TRIANGULATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		



ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TRIANGULATE		
NOTE BOOK	AREAS		
NO.	AREAS CHECKED		



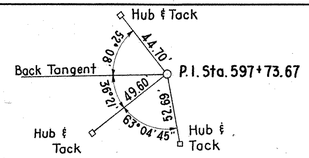
LINE SHEET - STA. 590+00 TO STA. 595+00

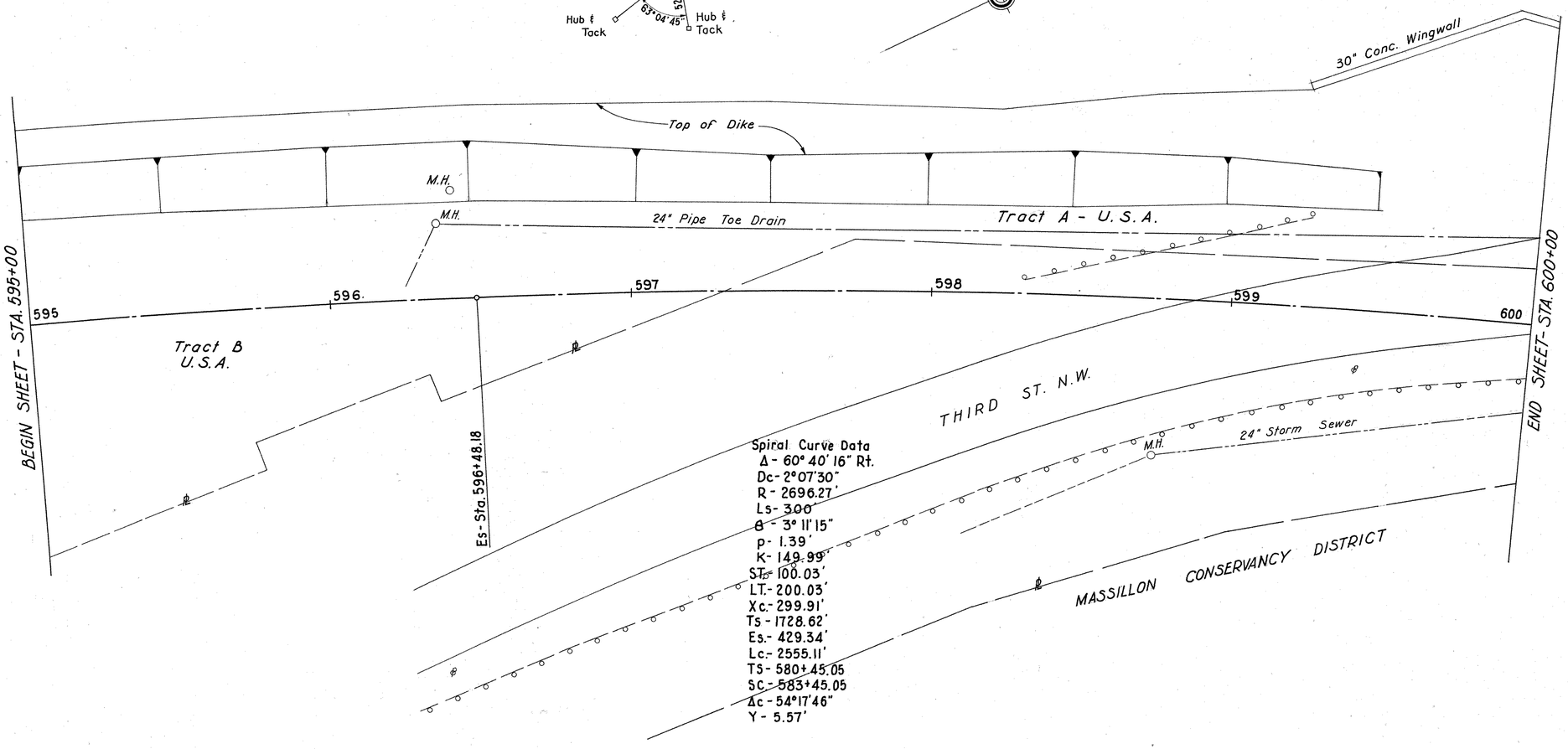
FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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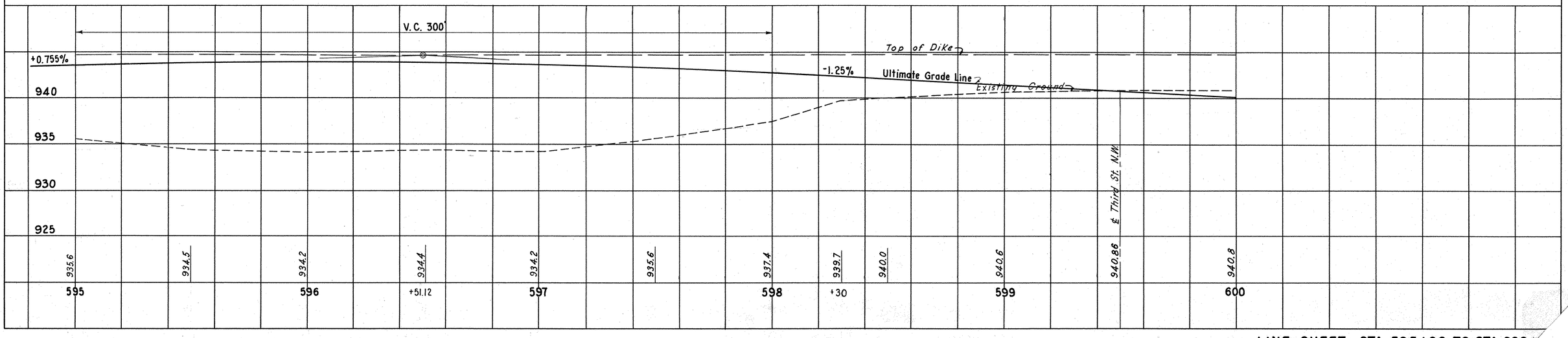
STA.-21-11.39

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TRIANGULATE		
	AREAS		
	AREAS CHECKED		





ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TRIANGULATE		
	AREAS		
	AREAS CHECKED		



LINE SHEET - STA. 595+00 TO STA. 600+

FED. RD. DIVISION	STATE	PROJECT	
	OH10		

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STA.- 21-11.39

B. M. # 21-3 Cut □ On Wing Wall S.E. Corner of Viaduct on Cherry Road N.W. Elev. 946.59

TYPICAL SECTION OF EXISTING CHERRY ROAD

Slope 1½:1 | Slope ¾" Per Ft. | 3'-0" | Conc. Curb | 4'-0" | 6'-0" | 13'-0" | 20'-0" | ℄ 3" Crown | 8" Reinf. Conc. Pavt. | 40'-0" | 20'-0" | Conc. Curb | 6'-0" | 4'-0" | 13'-0" | Slope ¾" Per Ft. | 4" Sidewalk | 3'-0" | Slope 1½:1

63°59' 58"
Sta. 7+29.64 - Cherry Road = Sta. 34+36.21 - New Channel
℄ New Channel
Tuscarawas River
Sta. 600+75.39 - Route 21 = Sta. 4+95.54 - Cherry Road
Hub & Tack Sta. 598+50
116° 16' 30"
Cherry Road
Iron Pin Sta. 0+33.11 = ℄ First Street-Lt.

Sta. 604+83.10 ℄ Warwick Ave.
Tangent To Curve
122° 26' 15"
℄ Warwick Ave.

Sta. 604+85
Existing Manhole Special To Be Reconstructed To Grade Using New Casting

30" Conc. Wingwall
Sta. 5+77
Sta. 601+40
Proposed Std. No. 1-2-A Catch Basin
60 L.F. Guard Rail Removed & Rebuilt Wire Cable Type
100' R
Proposed 12"x 22' I-2 Pipe
Sta. 601+60
Existing Manhole To Be Reconstructed To Grade Using Salvaged Casting
U. S. GOVT. PROPERTY
Top of Dike
Sta. 604+70
Proposed Std. No. 2 Manhole
R/W
Bott. 930.4
M.H. Top 941.2 #11
F.L. 935.62
21" Toe Drain
Limit of Construction
Proposed Std. Paved Gutter-Type 2
Concrete Walk
12" Water Line
Street Marker
Type 2-A Curb
#10 M.H.
Top 935.4
Bot. 923.7
Prop. 12"x 34" I-2 Pipe
Sta. 601+80
Proposed Std. No. 2-10 Inlet
F.L. 931.91
24" Storm Sewer (V.C. Pipe)
Sta. 603+50
Existing Manhole Special To Be Reconstructed To Grade Using New Casting
C.B. Top 933.1 Bot. 925.1
21" 18"
Sta. 604+83.10 ℄ Warwick Ave.
24" Toe Drain
Sta. 600+75.39 - Route 21 = Sta. 4+95.54 - Cherry Road
12" Water Line
6" Conc. Curb
#9
602
Shed
Std. Type 2-A Curb
603
604
6" V.C. Pipe
Std. Type 2-A Curb
605
24'-6"
#3601 U.S. GOVT. PROPERTY
601 Earth Drive
Sta. 601+40
Proposed 12"x 56' I-2 Pipe
M.H. Top 934.1 Bot. 929.3
Sta. 603+95
End Conc. Pavt. & Type 2-A Curb
Std. Type 6 Curb
Begin Flexible Pavt. & Type 6 Curb-Rt.
M.H. Top 933.0 Bot. 925.2
6" Sdr.
Hub & Tack Sta. 598+50
600
4' Conc. Walk
#3600 24 Catalpa
WILLIE S. & SUSIE GILLINS
2 Story Frame House
Sta. 601+70 15 Radius
Sta. 602+18
2'
Hedge
16" Catalpa
ALBERT MURDOCK #3599
#8
Limit of Construction
Type C Fence - Chain Link
Asphalt Court
Basketball
Tangent To Curve at Sta. 603+95
Future Edge of Pavt.
WARWICK AVE.
BEGIN SHEET - STA. 600+00
END SHEET - STA. 605+00
24" M.H. Top 937.2 Bot. 923.6
12" Sewer
8" San. Sewer
CHERRY ROAD N.W.
8" Reinf. Conc. Pavt.
6" Conc. Curb
Type 2-A Curb
Fr. Shed
#3598 MASSILLON CITY SCHOOL DISTRICT
6" V.C. Pipe Drain
Macadam Court
Conc. Walk
School
8' Conc. Walk
Sta. 602+20
Proposed Std. No. 2-2-A Catch Basin (Mod.)
55' R.
6" Buckeye
10'
R/W.
Guy Pole
MASSILLON CONSERVANCY DISTRICT
Sta. 31+55
O.P.S. 2521 B-3 41

S.L.M.-11.39
BEGIN PROJECT STA. 600+98.24

Spiral Curve Data
Δ - 60°40'16" Rt.
Dc - 2°07'30"
R - 2696.27'
Ls - 300.00'
θ - 3°11'15"
P - 1.39'
K - 149.99'
ST - 100.03'
LT - 200.03'
Xc - 299.91'
Ts - 1728.62'
Es - 429.34'
Lc - 2555.11'
TS - 580+45.05
SC - 583+45.05
Δc - 54°17'46"
Yc - 5.57'

V.P.I. Sta. 601+50
Elev. 938.25
100' V.C.

V.P.I. Sta. 604+75
Elev. 942.25
250' V.C.

ITEM SS.18	RIGHT OF WAY FENCE TYPE C - CHAIN LINK	
STATION	SIDE	LENGTH - LIN. FT.
601+67 - 605+00	Rt.	340'
TOTAL		340'

E-8	REMOVAL & DISPOSAL OF EXISTING WEARING SURFACE	
LOCATION		SQ. YDS.
Sta. 604+ Rt. Portion of Asphalt Court		25

For Fine Aggregate and 8" Underdrain Tabulation (See Sheet No. 8)

STORM DRAINAGE

NO.	STATION	Dist. From ℄	I-2 C.I.B Storm Sewers Under Pavt. 12" Lin. Ft.	I-8 Catch Basins No. 1-2-A	Catch Basins No. 2-2-A Mod.	Inlets No. 2-10	Mon. Box	Manholes No. 2	Manholes Spec. Reconst. Using New Casting	Manholes Reconst. Using Salv. Casting
	600+75.39	℄								
11	601+40	39' L		1			1			
	601+40 - 601+60	L	22							
10	601+60	31' L								1
	601+60 - 601+80	L	34							
9	601+80	℄				1				
	601+80 - 602+20	R	56							
8	602+20	35' R			1					
	603+50	1' L						1		
	604+70	29' L							1	
	604+85	2' L						1		
TOTALS			112	1	1	1	1	2	1	1

Excavation 407 Cu. Yds.
Embankment 4024 Cu. Yds.
Seeding 1525 Cu. Yds.

Cherry Road N.W. Lt.
Proposed Std. No. 1-2-A.C.B. F.L. C.B. 936.50 Grate Elev. 938.33
Prop. Std. No. 2-10 Inlet F.L. Inlet 932.50 Top Elev. 939.17
Prop. Std. No. 2-2-A.C.B. (Mod.) F.L. C.B. 933.06 Grate Elev. 937.00
Prop. Std. No. 2 M.H. F.L. M.H. 925.1 Top Elev. 942.8
-1.25%
+1.23%
-0.826%
Existing 24" Toe Drain
Existing 21" Toe Drain
Existing 6" Sanitary Sewer
Existing 24" Storm Sewer
Existing 24" Storm Sewer
Cherry Road N.W. Rt.
P.C. Sta. 601+00
P.T. Sta. 602+00
P.C. Sta. 603+50
Top of Dike
Sta. 600+75.39 = Sta. 4+95.54 Cherry Road
School House

945 / 940 / 935 / 930 / 925 / 920

938.88 | 938.64 | 938.58 | 938.56 | 938.87 | 939.48 | 940.10 | 940.17 | 940.99 | 941.23 | 941.53 | 941.61 | 941.63

942.29 | 939.88 | 937.09 | 935.19 | 933.34 | 932.64

941.2 | 940.2 | 939.71 | 939.55 | 939.4 | 938.7 | 935.4 | 935.0 | 935.6 | 936.1 | 935.2 | 934.8 | 934.5 | 933.8 | 933.3 | 933.7

600 | +84 | 601 | +14 | +25 | +40' | 602 | 603 | +75 | 604 | +75 | 605

LINE SHEET - STA. 600+00 TO STA. 605+00

FED. RD DIVISION	STATE	PROJECT	
	OHIO		

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STA.- 21 - 11.39

B.M. # 21-4 R.R. Spike In Power Pole 99' Rt. Sta. 607+74 Elev. 934.73 — 2521 B-4 / 5

U.S. GOV'T. PROPERTY

Sta. 608+92.60 - Route 21 = ℄ First Street - N.W.

Tangent To Curve

℄ First St. N.W.

133° 59' 14"

Hub & Tack — Hub & Tack — Hub & Tack

51° 05' 30" — 37° 24'

Back Tangent — 46° 24' — 88.87' — 58.79' — 83.69'

C. S. Sta. 609+00.16

BEGIN SHEET - STA. 605+00

Proposed Std. Paved Gutter-Type 2

Top of Dike

Limit of Construction

R/W

18" Toe Drain

24" Storm Sewer (V.C. Pipe)

M.H.

4" H.P. Gas Line

12" Water Line

Sta. 609+03 Existing Catch Basin To Be Abandoned

Sta. 609+02 Existing Manhole Special To Be Reconstructed To Grade Using New Casting

Sta. 610+00 Proposed Std. No. 2-10 Inlet

R/W.

18" Toe Drain

C.B. Top 932.1 Bot. 925.6

#7

Sta. 610+00 Prop. Std. No. 2 Manhole Prop. 15" x 30' I-2 Pipe

#6

Contact of OBT Co.

Small poplars

#3566 ANN S. FURIATE 1½-S Frame House 610

Small Poplars

18" San. Sewer GROOSE AVE.

Proposed 15" x 56' I-2 Pipe

Pole

Gravel Drive (Earth)

Sta. 610+03 Reinf. Conc. Headwall F.L. Elev. 929.80

OBT Contact

℄ 2521 B-4

R/W

STA. 610+00

END SHEET - STA. 610+00

U.S. GOV'T. PROPERTY

Conc. Blk. Garage

#3587 TONY PALONE

Conc.

Shed

5" Apple

6" Apple

Sta. 606+35 Proposed Std. No. 2-6 Inlet

Sta. 606+43 1.5' Radius

BLANE & CECLIA JOHNSON #3577

CLARA ALEXANDER

12" Cherry

Sta. 608+80 Begin Std. Type 2-A Curb

25'-0"

I.P.

G.V.

W.V.

M.H. Top 932.5 Bot. 924.7

609

Std. Type 2-A Curb

606

Std. Type 6 Curb

605

607

608

2 Sty. Fr. House

Fr. Garage

2 Sty. Brk. Fr. Garage

Conc. Drive

5° Curve

Flexible Pavement

14'-0"

15' Alley

Proposed 12" x 50' I-2 Pipe

#3576 MARY DOWN

12" Apple

2½ Sty. Fr. House

Future Edge of Pavement

8" Pear

Sta. 606+35 Reinf. Conc. Endwall F.L. Outlet 934.20

Well (abandoned)

Wire Fence

Prop. Roadway Ditch

W.V.

Limit of Construction

Type C + Fence - Chain Link

#3588 JILES R. & DAISY A. EDWARDS

Brick

Fr. Shed

Brick Court

2½ Sty. Fr. House

Sta. 608+92.60-Rte.21 = ℄ First Street N.W.

20" San. Sewer

G.V.

16" Maple

24" Maple

Board Walk

(Gravel)

N.W.

Sta. 609+00.16

C.S. Sta. 609+00.16

2½ Sty. Fr. House

#3589 SALVATORE BLOGNA

Stone

Conc. Patio

1 Sty.

2-Sty Shingle House

#3590 GEORGE W. & MARY S. LEMON

10" Apple

End

#3591 VINNIE LEAVELL

1 Sty.

2-Sty Brick, 1 Sty. Shingle House

Stone

14" Ash

Spiral Curve Data
Δ - 60° 40' 16" Rt.
Dc - 2° 07' 30"
R - 2696.27'
Ls - 300.00'
θ - 3° 11' 15"
p - 1.39'
K - 149.99'
ST. - 100.03'
LT. - 200.03'
Xc. - 299.91'
Ts. - 1728.62'
Es - 429.34'
Lc - 2555.11'
T.S. - 580+45.05
S.C. - 583+45.05
Δc - 54° 17' 46"
Yc. - 5.57'

OPS. Co. 2521 B-3 46

MASSILLON CITY SCHOOL DISTRICT

15' Alley

Conc. Blk. Garage

WARWICK AVE. N.W.

Sanitary Sewer (Gravel)

Guard Rail

50'

Rock Curb

12" Water Line

FIRST

Guard Rail

Rock Curb

50" Maple

Concrete

Board Walk

16" Maple

2 Story Frame House

#3564 TIMOTHY & LYDIA SMITH

#3565 WILLIE TOM & WILLIE JEAN BODIFORD

#3563 HELEN M. MERCER

OPS. Co. 2521-B4

E-8	REMOVAL & DISPOSAL OF EXISTING CURB			
STATION	SIDE	STREET	LIN.FT.	
608+	Rt.	First	28	

E-8	REMOVAL & DISPOSAL OF EXISTING SIDEWALK			
STATION	SIDE	STREET	SQ.FT.	
608+	Rt.	First	76	

STORM DRAINAGE

NO.	STATION	Dist. & From ℄	I-2 Cl. B Storm Sewer Under Pavt. - L.F. 12"	15"	I-8 Manholes Std. No.2	I-8 Manholes Spec. Recon. New Gr.	I-8 Inlets No. 2-6	I-8 Inlets No. 2-10	I-16 C.B. Aband.	E-2 Exc. For Struct	S-1 Conc. For Struct Cl. C	S-4 Reinf. Steel Lbs.
	606+35	℄ to Rt.	50				1			2	0.65	20
	609+00.16	℄			1							
	609+02	10' Lt.				1						
	609+03	32' Lt.							1			
7	610+00	32' Lt.			1							
	610+00	Lt.	30									
6	610+00	℄						1				
	610+00	Rt.	56									
	610+03	Rt.								3	0.85	24
	TOTAL		50	86	1	1	1	1	1	5	1.50	44

ITEM SS-18	RIGHT OF WAY FENCE TYPE C - CHAIN LINK	
STATION	SIDE	LENGTH - LIN. FT.
605+00 - 610+00	Rt.	487
TOTAL		487

ITEM I-15	GUARD RAIL - STEEL BEAM TYPE (DEEP)	
STATION	LOCATION	LENGTH - LIN. FT.
605+34 - 605+60	75' Rt. of ℄	25.0'
607+97 - 608+35	77' Rt. of ℄	37.5'
TOTAL		62.5'

For Fine Aggregate and 8" Underdrain Tabulation (See Sheet No. 8)

Excavation	301	Cu.Yds.
Embankment	7410	Cu.Yds.
Seeding	4301	Sq.Yds.

945 / 940 / 935 / 930 / 925

941.63 — 250' V.C. — 941.53 — 941.22 — P.T. Sta. 606+00 — 940.80 — 940.39 — 939.98 — 939.57 — 939.15 — 938.74 — 938.49 — 938.24 — 937.99 — 937.91

Prop. Std. No. 2-6 Inlet
F.L. Inlet 935.50
Top Elev. 941.42

-0.826%

Top of Dike

Prop. Std. No. 2 Manhole
F.L. M.H. 925.73
Top Elev. 938.90

Existing 18" Toe Drain

Exist. 15" Toe Drain

Existing Ground

Existing C.B. To Be Abandoned

Prop. Std. No. 2-10 Inlet
F.L. Inlet 929.24
Top Elev. 938.41

Existing 24" Storm Sewer

Existing Sanitary Sewer

933.7 — 934.4 — 935.5 — 933.9 — 933.4 — 934.2 — 934.2 — 933.9 — 932.6 — 932.5 — 932.9 — 933.9

605 — 606 — 607 — 608 — 609 — +30.16 — +60.16 — +90.16 — 610

LINE SHEET - STA. 605+00 TO STA 610+00

ORIGINAL SURVEY — SURVEYED BY — DATE — NOTE BOOK — NO. — TEMPLATE — AREAS — AREAS CHECKED

FINAL SURVEY — SURVEYED BY — DATE — NOTE BOOK — NO. — TEMPLATE — AREAS — AREAS CHECKED

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA. - 21 - 11.39

Hub & Tack — 77° 28' 30" — Hub & Tack
68.52' — 83.10' — 43° 43' 30" Forward Tangent
Const. S.T. 612+00.16 Back = Survey S.T. 612+25.69 Ahead
83.71' — 88° 21'
Hub & Tack

Hub & Tack — 86° 50' — Hub & Tack
77.10' — 82.44'
48° 42' Back Tangent — T.S. Sta. 612+99.78
88° 46' — 90.32'
Hub & Tack

U.S. GOV'T. PROPERTY

#9200 U.S.A.

Sta. 613+00 - Proposed Sta. No. 2-2-A Catch Basin (Mod.)

Sta. 612+95 - 614+80 Proposed Paved Gutter-Type 4 Construct To Widths and Elevations as Shown on Cross-Sections.

#9201 U.S.A.

Proposed Std. Paved Gutter-Type 2

Sta. 611+70 - Existing Manhole Special To Be Reconstructed To Grade Using New Casting

Top of Dike

Proposed Std. Paved Gutter, Type 2

R/W

Limit of Construction

15" Toe Drain

12" Toe Drain

#3

Proposed 15"x100' I-2 Pipe

F.L. 931.0 R/w Line

F.L. 932.23

M.H. #5

F.L. 929.3

24" Storm Sewer (V.C. Pipe)

#3568

JESSE BIRDSONG

HELEN MONTAGUE

Proposed 12"x 40' I-2 Pipe

Proposed 12"x 20' I-2 Pipe

24'-6"

1½ story Frame House

STA. 610+00

610

611

612

613

614

615

18" Maple

18" San.

M.H.

#4

#2

N. 29° 01' 46" E

18" Maple

24" Apple

1'-6"

Sta. 611+80 - Proposed Std. No. 2-10 Inlet

18" Sanitary Sewer

Proposed 12"x 196' I-2 Pipe

Sta. 613+20 - Proposed Std. No. 2-10 Inlet

BEGIN SHEET

END SHEET - STA. 615+00

#3567

FURIATE

10' Gravel Drive

Future Edge of Pavement

Sta. 613+01 - Existing Manhole To Be Reconstructed To Grade Using Salvaged Castings

30" Maple

O.P.S. Co. # 2521 B4 10

Limit of Construction

#3566

ANN

Road

8" Twin Walnut (Dead)

Twin 36" Willow

3.6" Maple

Type C Fence - Chain Link

8 Willow (Dead)

Earth

3' Conc. Walk

2 Story Fr. House

Conc.

R/W

18" Sanitary Sewer

50'

GROOSE AVE.

O.P.S. Co. 2521 B4 9

O.P.S. Co. 2521 B4 8

#3569 ROY E. SLATER

Const. S.T. 612+00.16 Survey S.T. 612+25.69

#3570 ANTHONY J. DIANA

T.S. Sta. 612+99.78

#9204 MIKE KURLINSKI

#9203 WM. F. & MARY B. KELLER

12" Apple

#3571

#3572

100' V.C. V.P.I. Sta. 612+75 Elev. 935.85

Spiral Curve Data

Δ - 54° 25' 22" Lt.	LC - 299.96'
Dc - 2° 05'	Ts - 1564.79'
R - 2750.20'	Es - 343.79'
LS - 300.00'	Lc - 2312.30'
θ - 3° 07' 30"	Δc - 48° 10' 22"
p - 1.36'	Xc - 299.91'
K - 149.99'	Yc - 5.45'
LT - 200.03'	
ST - 100.03'	

Spiral Curve Data

Δ - 60° 40' 16" Rt.	Xc. - 299.91'
Dc - 2° 07' 30"	Ts. - 1728.62'
R - 2696.27'	Es - 429.34'
Ls - 300.00'	Lc - 2555.11
θ - 3° 11' 15"	TS - 580+45.05
p - 1.39'	SC - 583+45.05
K - 149.99'	Δc - 54° 17' 46"
ST - 100.03'	Yc - 5.57'
LT - 200.03'	

STORM DRAINAGE

NO.	STATION	Dist. From ℄	I-2 Cl. B Storm Sewer Under Pavt. 12" Lin. Ft.	I-2 Cl. B Storm Sewer Under Pavt. 15" Lin. Ft.	I-8 Man. Box	I-8 Manhole Recons. Using New Casting	I-8 Manhole Recons. Using Salv. Casting	I-8 Inlet No. 2-10	I-8 Catch Basin No. 2-2-A Mod.
5	611+72	31' Lt.				1			
	611+72 - 611+80	Lt.	20'						
4	611+80	℄						1	
	611+72 - 613+00	Lt.		100					
	612+00.16	℄			1				
	612+99.78	℄			1				
3	613+00	37' Lt.							1
	613+01	4' Rt.					1		
	613+01 - 613+20	Lt.	40'						
2	613+20	℄						1	
	613+20 - 615+20	℄	196'						
	TOTAL		256	100	2	1	1	2	1

SS-18 RIGHT OF WAY FENCE TYPE C - CHAIN LINK		
STATION	SIDE	LENGTH - LIN. FT.
610+00 - 615+00	Rt.	475'
TOTAL		475'

For Fine Aggregate and 8" Underdrain Tabulation (See Sheet No. 8)

Prop. Std. No. 2 M.H.
F.L. M.H. 925.73
Top Elev. 938.90

Prop. Std. No. 2-10 Inlet
F.L. Inlet 929.5
Top Elev. 936.93

-0.826 %

Prop. Std. No. 2-2-A. C.B. (Mod.)
F.L. C.B. 932.23
Grate Elev. 934.62

Prop. Std. No. 2-10 Inlet
F.L. Inlet 932.63
Top Elev. 936.71

+0.800 %

Prop. Std. No. 2-10 Inlet
F.L. Inlet 929.24
Top Elev. 938.41

Existing Ground

15"x100' I-2 Pipe Slope 1.25 %

12"x196' I-2 Pipe Slope 0.80 %

Reconst. Manhole To Grade
F.L. M.H. 926.20
Top Elev. 936.50

Existing 24" Storm Sewer

Existing 18" Sanitary Sewer

Excavation	530	Cu. Yds.
Embankment	3061	Cu. Yds.
Seeding	3767	Sq. Yds.

Const. S.T. 612+00.16 = Survey S.T. 612+25.69

940 / 935 / 930 / 925 / 920

937.91 937.75 937.50 937.25 937.09 937.00 936.76 936.51 936.27 936.11 936.10 936.25 936.53 936.85 937.25 937.65

935.5 933.4 933.2 932.8 932.8 932.7 932.6 933.4 933.6 934.4 934.8 935.7 935.9 935.8

610 +20.16 +50.16 +80.16 611 +10.16 +40.16 +70.16 612 +50 +75 613 +25 +29.78 +59.78 +89.78 614 +19.78 +49.78 +79.78 615

LINE SHEET - STA. 610+00 TO STA. 615+00

DATE	BY	
		SURVEYED
		PLOTTED
		FINAL PLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY — NOTE BOOK NO.

DATE	BY	
		SURVEYED
		PLOTTED
		FINAL PLATE
		AREAS
		AREAS CHECKED

ORIGINAL SURVEY — NOTE BOOK NO.

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA.- 21-1139

B.M. # 21-5 R.R. Spike in Power Pole # 2521 B-1 / 10
130' Rt. Sta. 617+00
Elev. 942.18

P.O.C. Sta. 616+45.85
℄ Burton Ave.

P.O.C. Sta. 619+35.20
℄ State Street N.E.

P.O.C. Sta. 618+00

Hub & Tack
Hub & Tack
Hub & Tack
S.C. Sta. 615+99.78
Back Tangent
80.14'
47.19'
69° 36'
66.28'
98° 54'
88.32'
113° 29'
℄ Burton Ave. N.E.
108° 08' 45"
℄ State St. N.E.

Spiral Curve Data

Δ -	54° 25' 22" Lt.	ST.-	100.03'
Dc-	2° 05'	Xc -	299.91'
R -	2750.20'	Ts -	1564.79'
Ls-	300.00'	Es-	343.79'
θ -	3° 07' 30"	Lc -	2312.30'
p -	1.36'	Δc -	48° 10' 22"
K -	149.99'	Yc -	5.45'
LT.-	200.03'	LC -	299.96'

O.L. 2
U.S.A

#9201
U.S.A.

S.C. Sta. 615+99.78

Proposed Std. Paved
Gutter - Type 2

Top of Dike

12" Toe Drain

R/W

Limit of Construction

#9202 HELEN MONTAGUE

O.L.73 U.S.A. Parcel #3

Sta. 619+38
Begin Guard Rail

Sta. 619+95
Pipe Culvert Endwall
F.L. Outlet 932.42

Drainage Ditch

18" San. Sewer

Sanitary Manhole

Sta. 619+34 - Existing
Manhole Spec. to be
Reconstructed To Grade
Using New Casting
24" Willow

BEGIN SHEET - STA. 615+00

END SHEET - STA. 620+00

#1

Earth Road

615 616 617 618 619 620

Sta. 616+56 Existing Manhole
Special To Be Reconstructed
To Grade Using New Casting

M.H.

24'-6"

1'-6"

Proposed 42"x 306'
I-2 Pipe

#9203
WM.F. & MARY
B. KELLER

Sta. 615+20 - Proposed
Std. No. 2-10 Inlet

Sta. 616+45.85
℄ Burton Ave.

Proposed 12" I-2 Pipe

Future Edge of Pavement

Sta. 618+00 - 619+00
Provide Sodding as
Shown on Cross-Sections

Sta. 619+35.20
℄ State St.

Alley-Bituminous

24" Ash 18" Ash

Std. Roadway Ditch

Sta. 617+11 - Proposed
Std. No.1 Manhole

Sta. 618+00
Reinf. Conc. Endwall
F.L. Inlet 935.10

Proposed 21"x 90'
I-2 Pipe

F.L. 934.20

Proposed 36"x 12' I-2 Pipe

Ops. Co.
2521 B4
12

Limit of Construction

R/W

Std. Roadway Ditch

8" San. Sewer

36" Conc. Pipe

Type C Fence
Chain Link

Guard Rail

MUSKINGUM WATERSHED
CONSERVANCY DISTRICT

BURTON AVE. N.E.

#7833
HARRY V. RESS

#7832
HARRY V. RESS

#7831

#7822
MARY R. JAMES

4' Conc. Walk

M.H.

2½ Story
Frame House

STATE ST. N.E.
Bituminous
6" Conc. Curb

6" Conc. Curb

6" Conc. Walk

2½ Story
Fr. House

24'
40'

Guard Rail

STORM DRAINAGE

NO.	STATION	DIST. FROM ℄	I-2 Cl. B Storm Sewers Lin. Ft. 36"	I-2 Cl. B Storm Sewer Under Pavt. 21"	I-2 Cl. B Storm Sewer Under Pavt. 42"	I-8 Manholes Man. Box	I-8 Manholes Spec. Reconst. Using New Casting No. 1	I-8 Manholes Inlet No. 2-10	E-2 Exc. For Struct.	S-1 Conc. For Struct. Cl. C	S-1 Conc. For Struct. Cl. E	S-4 Reinf. Steel
1	615+20	℄						1				
	616+56	℄					1					
	617+10	Rt.	12'									
	617+11	63' R					1					
	617+11-618+00	Rt.		90'								
	618+00	Rt.							2	1.20		30
	618+00-619+95	L+R			306							
	619+34	20' Lt					1					
	619+95	Lt.							4		0.76	
	615+99.78	℄				1						
	TOTAL		12'	90'	306	1	1	2	1	6	1.20	0.76	30

E-8 REMOVAL AND DISPOSAL OF EXISTING CURB			
STATION	SIDE	STREET	LIN. FT.
619+	Rt.	State	16

E-8 REMOVAL AND DISPOSAL OF EXISTING WEARING SURFACE			
STATION	SIDE	STREET	SQ. YDS.
619+	Rt.	State	20

E-8 REMOVAL AND DISPOSAL OF EXISTING SIDEWALK			
STATION	SIDE	STREET	SQ. Ft.
619+	Rt.	State	56

ITEM SS-18 RIGHT OF WAY FENCE TYPE C - CHAIN LINK		
STATION	SIDE	LENGTH - LIN. FT.
615+00 - 620+00	Rt.	515'
TOTAL		515'

ITEM I-15 GUARD RAIL STEEL BEAM TYPE (DEEP)		
STATION	LOCATION	LENGTH - LIN. FT.
616+68 - 616+93	75' Rt. of ℄	25.0'
619+41 - 619+65	63' Rt. of ℄	25.0'
TOTAL		50.0'

For Fine Aggregate and 8" Underdrain Tabulation (See Sheet No 8)

937.65 937.73 938.21 938.45 938.85 939.25 939.65 940.05 940.45 940.85 941.25 941.65

Prop. Std. No. 2-10 Inlet
F.L. Inlet 934.21
Top Elev. 938.29

Prop. Std. No. 1 M.H.
F.L. M.H. 933.95
Top Elev. 940.00

945
940
935
930

Top of Dike

Excavation	2052	Cu. Yds.
Embankment	5254	Cu. Yds.
Seeding	4813	Sq. Yds.

+0.800%

Existing Ground

Prop. 21"x 90' I-2 Pipe Slope 1.00%

Prop. 42"x 306' I-2 Pipe Slope 0.50%

Exist. 36" Storm Sewer

Prop. 12" I-2 Pipe

Existing 18" Sanitary Sewer

Existing 18" Sanitary Sewer

935.6 935.8 936.3 937.9 936.5 936.3 936.3 936.3 936.1 935.0 934.0 932.3 932.3 934.1 934.4 935.9 938.7 944.7 945.4

615 +09.78 +69.78 +99.78 616 617 +02 +11 +93 618 +14 +19 +28 +29 619 +77 620

LINE SHEET - STA. 615+00 TO STA. 620+00

ORIGINAL SURVEY	SURVEYED	BY
	PLOTTED	DATE
	NOTE BOOK	
	NO.	

FINAL SURVEY	SURVEYED	BY
	PLOTTED	DATE
	NOTE BOOK	
	NO.	

AREAS
AREAS CHECKED

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA. - 21 - 11.39

Spiral Curve Data

Δ - 54° 25' 22" Lt.	ST - 100.03
Dc - 2° 05'	Xc - 299.91
R - 2750.20'	Ts - 1564.79'
Ls - 300.00'	Es - 343.79'
θ - 3° 07' 30"	Lc - 2312.30'
P - 1.36'	Δc - 48° 10' 22"
K - 149.99	Yc - 5.45'
LT - 200.03	LC - 299.96

P.O.C. Sta. 621+51.90 = ℄ OHIO Ave. N.E.
Tangent
P.O.C. Sta. 623+05.74
79° 09' 45" ℄ OHIO Ave. N.E.
P.O.C. Sta. 624+84.44 = ℄ David Ave
Tangent
P.O.C. Sta. 625+00
84° 55' 30" ℄ David Ave.
Top of Dike
Sta. 620+07 Reinf. Conc. Endwall F.L. Outlet 932.42
12" Toe Drain
M.H.
18" Toe Drain
R/W
Limit of Construction
R/W
Drainage Ditch
M.H.
M.H.
18" Sanitary Sewer
Proposed Ditch Relocation
18" Sanitary Sewer
18" Sanitary Sewer
O.L. 73
U.S.A. PARCEL 3
Limit of Construction
24" Twin Ash
24" Twin Ash
Dead Stump
12" Ash
14" Elm
12" Maple
16" Hickory
16" Ash
16" Sycamore
14" Apple
Proposed 12" x 50' I-2 Pipe
18" Elm
Proposed Guard Rail
Sta. 620+07 Proposed Std. No. 2-10 Inlet
20" Poplar
Sta. 621+51.9 = ℄ Ohio Ave.
Earth Drive
18" Gutter
6" Conc. Curb
Alley
Macadam
620
621
#4988 HELEN LOUISE SCHRADER
1 Sty. Fr. House
622
Conc. Blk. Garage
Corr. Metal
623
624
625
24'-6"
1'-6"
18" Apple
24" Sycamore
5" Apple
Sta. 624+84.44 = ℄ David Ave.
16" Ash
12" Poplar
10" Apple
10" Maple
Frame Garage
Earth Parking Area
2 Sty. Fr. Apartment House
Stone Walk
15" Sycamore
48" Oak
3" Tree
Rock 3'x2'x5' High
#5151
#7821 MARY E. JAMES
#4989 GEO. L. & MARTHA E. NULL
30" Elm
ROBERT & IMOGENE ROBART
12" Cherry
Future Edge of Pavement
#5152
12" Oak
3" Twin Apple
10" Apple
O.P.S. 2521 B-1 32
2½ Sty.
Fr. House
Drive
2' Conc. Walk
4" Spruce
#5154
#5153
10' Alley
C H W O R M
F. M E L V I L L E
Proposed Std. Roadway Ditch
Limit of Construction
Type C Fence - Chain Link
15" Apple
Shrub
6" Apple
3" Crab Apple
Maple
12" Maple
10" Maple
R/W
#7822 ERNEST & HELEN RIKOSKY
#4990 MERICK LAND CO.
Guard Rail
2.5 Conc. Walk
2 Sty Shingle Apartment House
#4991
4' Conc. Walk
6" Conc. Curb
6" Water Line
4" Conc. Curb
Macadam
M.H. (Covered)
18" Gutter
40'
#4986
1 Sty Frame House
Conc. Blk. Garage
Fr. Garage
HUBERT KRUMLAUGH
O.P.S.CO. 2521 B-1 32
30'
22' Gravel
DAVID AVE.
12" Maple
6" Maple
10" Maple
BEGIN SHEET - STA. 620+00
END SHEET - STA. 625+00

E-8	REMOVAL AND DISPOSAL OF EXISTING WEARING COURSE		
STATION	SIDE	STREET	SQ. YDS.
621+	Rt.	OHIO AVENUE	36

E-8	REMOVAL AND DISPOSAL OF EXISTING SIDEWALK		
STATION	SIDE	STREET	SQ. FT.
621+	Rt.	OHIO AVENUE	160

E-8	REMOVAL AND DISPOSAL OF EXISTING CURB		
STATION	SIDE	STREET	LIN. FT.
621+	Rt.	OHIO AVENUE	20

STORM DRAINAGE

STATION	DIST. FROM ℄	I-2 Class B Storm Sewer Under Pavt. 12" Lin Ft.	I-8 Inlet No. 2-10	E-2 Exc. for Struct.	S-1 Conc. for Struct. Class C	S-4 Reinf. Steel
620+07	℄		1			
620+07	Lt.	50				
620+07	52' Lt.			2	0.65	20
TOTAL		50	1	2	0.65	20

ITEM SS.18	RIGHT OF WAY FENCE TYPE C - CHAIN LINK	
STATION	SIDE	LENGTH - LIN FT.
620+00 - 625+00	Rt.	516
TOTAL		516

ITEM-I-15	GUARD RAIL-STEEL BEAM TYPE (DEEP)	
STATION	LOCATION	LENGTH LIN FT.
621+57 - 621+81	62' Rt.	25.0
TOTAL		25.0

941.65 | 942.05 | 942.45 | 942.85 | 943.25 | 943.65 | 944.05 | 944.43 | 944.66 | 944.73 | 944.72 | 944.64

V.C. 4.00'

950
945
940
935
930

P.C. Sta. 623+25
944.23

Top of Dike
Existing Ground
+0.800%
Proposed Std. No. 2-10 Inlet
F.L. Inlet 938.15
Top ELev. 942.21

Excavation	4150	Cu. Yds.
Embankment	1238	Cu. Yds.
Seeding	5509	Cu. Yds.

Existing 18" Sanitary Sewer
Existing 18" Sanitary Sewer

945.4 | 943.6 | 943.3 | 941.2 | 942.6 | 942.7 | 942.5 | 946.3 | 944.9 | 948.9 | 951.0 | 950.9 | 944.2

620 | 621 | 622 | +89 623 | 624 | +60 | +66 | 625

LINE SHEET - STA. 620+00 TO STA. 625+00

ORIGINAL SURVEY | SURVEYED BY PLOTTED FROM TEMPLATE | NOTE BOOK | NO. | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY | SURVEYED BY PLOTTED FROM TEMPLATE | NOTE BOOK | NO. | AREAS | AREAS CHECKED | BY | DATE

FED.RD. DIVISION	STATE	PROJECT	
	OHIO		

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61

STA.-21-11.39

Nail In 20" Maple
43.91'
Sub P.I. Sta. 626+00-Rt.
Top of Dike
38.96'
40.26'
Nail In Power Pole
Nail In 20" Maple
B.M. # 21-6 Spike in Base of 30" Oak Tree
90' Right Sta. 627+00
Elev. 942.29

Spiral Curve Data

Δ -	54° 25' 22" Lt.	ST-	100.03'
Dc-	2°05'	Xc-	299.91'
R -	2750.20'	Ts-	1564.79'
Ls-	300.00'	Es-	343.79'
θ -	3°07'30"	Lc-	2512.30'
p -	1.36'	Ac-	48°10'22"
K -	149.99'	Yc-	5.45'
LT-	200.03'	LC-	299.96'

R/W
18" Toe Drain Outlet
Proposed Ditch Relocation (4' Bottom Width)
Drainage Ditch
Proposed Guard Rail
O.L.73 U.S.A. Parcel #3
Guy Wires
Guy Wires
Limit of Construction
Drainage Ditch
Sta. 628+62 End Guard Rail
Sta. 629+00 Pipe Culvert Endwall F.L. Outlet 927.52
O.L.74 J. & J. EAGLOWSKI
20" Ash
R/W
BEGIN SHEET - STA. 625+00
625
Sta. 626+22 - Existing Manhole Special To Be Reconstructed To Grade Using New Casting
626 M.H.
627
628
629
630
Elev. Bottom Wire - 975.1
24'-6"
1'-6"
Proposed 54" x 126' S-27 Pipe
END SHEET - STA. 630+00
12" Hickory
12" Stone Wall
16" Elm
24" Dead Stump
8" Conc. Wall
4' Conc. Walk
14" Elm
12" Elm
18" Sanitary Sewer
Future Edge of Pavement
14" Apple
24" Oak
2½ St'y. Frame House
#5150
MELVILLE F. SCHWORM
2 St'y. Frame Barn
MUSKINGUM WATERSHED CONSERVANCY DISTRICT
18" Stump
5" Tree
36" Gate
O.P.S. Co.
Sta. 628+35 Existing M.H. To Be Adjusted
M.H.
R/W
12' Cinder Alley
6" Conc. Curb
6" Conc. Curb
Brick Apron
Limit of Construction
4" Apple
Type C Fence Chain Link
5" Apple
5149
MELVILLE F. SCHWORM
8' Cinder Drive
Proposed Std. Roadway Ditch
O.L.68 MELVILLE F. SCHWORM
Sta. 626+00 - 629+00 Provide Sodding as Shown on Cross-Sections.
O.L.69 ZELLA MAY FRICK
12" San. Sewer
O.L.69 MERICK LAND CO.
Sta. 629+00 - Wing Type Headwall F.L. Inlet 928.15 (For Details - See Sheet No. 11)
R/W
35' Conc. Walk

STORM DRAINAGE

STATION	Dist. From ℄	I-8 Manholes Adjusted To Grade	I-8 Manholes Spec. Reconst. Using New Casting	S-27 Pipe * For Rdwy. Culverts 54"	E-2 Exc. For Struct.	S-1 Conc. For Struct. Class E
626+22	4' Lt.		1			
628+35	61' Rt.	1				
629+00				126'	256	4.76
TOTAL		1	1	126	256	4.76

ITEM SS-18	RIGHT OF WAY FENCE TYPE C - CHAIN LINK	
STATION	SIDE	LENGTH - LIN. FT.
625+00 - 630+00	Rt.	517
TOTAL		517

* NOTE. ITEM S-27 54" x 126' Roadway Culvert. If Corrugated Metal Pipe Sec M-6.4 (d) is furnished for this item, the Gage shall be #10 or heavier

950
945
940
935
930

944.64 944.38 944.31 944.10 943.95 943.36 942.61 942.17 941.71 940.79 939.87 938.95 938.03 937.11

V.C. 400'
+0.800%
V.P.I. Sta. 625+25
Elev. 945.85
P.C. Sta. 627+25
Top of Dike
-1.840%
Proposed 54" S-27 Pipe Slope 0.50%
Existing Ground
Existing 18" Sanitary Sewer

Excavation	2192	Cu.Yds.
Embankment	13251	Cu.Yds.
Seeding	7739	Sq.Yds.

944.3 943.3 943.6 944.3 935.0 934.5 933.4 932.2 932.0 933.1 938.0 931.1 931.5 928.5 927.6 927.6 928.7 928.4 930.1 928.8 929.9

625 +10 +59 +85 626 627 +56 +78 628 +32 +40 +46 +36 +44 629 630

LINE SHEET - STA. 625+00 TO STA. 630+00

ORIGINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

FINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA. - 21 - 11.39

Spiral Curve Data

Δ - 54° 25' 22" Lt	ST - 100.03'
Dc - 2° 05'	Xc - 299.91'
R - 2750.20	Ts - 1564.79'
Ls - 300'	Es - 343.79'
θ - 3°07'30"	Lc - 2312.30'
P - 1.36'	Δc - 48°10'22"
K - 149.99'	Yc - 5.45
LT - 200.03'	LC - 299.96

STORM DRAINAGE								
STATION	Dist From ℄	I-2 Class B Storm Sewer Under Pavt. 12" Lin. Ft.	I-8 Inlets No. 2-10	I-8 Inlets No. 2-14	E-2 Exc. for Struct.	S-1 Conc. for Struct Class C	S-1 Conc. for Struct Class E	S-4 Reinf. Steel
630+25	℄			1				
630+28	Lt.	64						
630+28	65' Lt.				1		0.23	
632+75	℄		1					
632+78	Lt.	42						
632+78	43' Lt.				1	0.65		20
TOTAL		106	1	1	2	0.65	0.23	20

ITEM SS-18	RIGHT OF WAY FENCE TYPE C - CHAIN LINK	
STATION	SIDE	LENGTH - LIN. FT.
630+00-635+00	Rt	516
TOTAL		516

ITEM E-1 ROADWAY EXCAVATION UNSUITABLE MATERIAL
Sta 632+75 to Sta. 634+75 4000 Cu. Yds. Peat Removal as directed by the Engineer

BEGIN SHEET - STA. 630+00

END SHEET - STA. 635+00

Drainage Ditch

Sta. 630+28
Pipe Culvert End Wall
F.L. Outlet 927.70

36" Oak

24" Twin Oak

O.L. 74
J & J. EAGLOWSKI

O.L. 75
ODILIA HANSON

R/W

16" Maple

24" Maple

Proposed 12" x 64' I-2 Pipe

Limit of Construction

Rock Borrow Pit

Sta. 632+78
Reinf. Conc. Endwall F.L. Outlet 928.20

16" Willow

14" Oak

16" Maple

24" Willow

24" Drainage Ditch

14" Ash

18" Ash

24'6"

1'6"

630

631

632

633

634

635

Proposed 12" x 42' I-2 Inlet

Sta. 630+25
Proposed Std. No. 2-14 Inlet

Sta. 632+75
Proposed Std.
No. 2-10 Inlet

Future Edge of Pavement

Proposed Std. Roadway Ditch

Limit of Construction

Type C Fence - Chain Link

Wire Fence

Frame Shed

Drainage Ditch

MUSKINGUM WATERSHED
CONSERVANCY DISTRICT

(Old Ohio Canal)

| | | | | | | | |

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

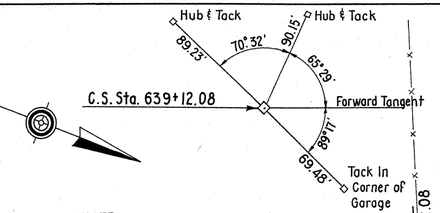
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STA.- 21-11.39

B.M. No. 21-7 R.R. Spike In Base of 20" Elm Tree
75' Lt. Sta. 637+70
Elev. 939.35

Spiral Curve Data

Δ -	54° 25' 22" Lt.	ST.-	100.03'
Dc -	2° 05'	Xc -	299.91'
R -	2750.20'	Ts -	1564.79'
Ls -	300.00'	Es -	343.79'
θ -	3° 07' 30"	Lc -	2312.30'
p -	1.36'	Δc -	48° 10' 22"
K -	149.99'	Yc -	5.45'
LT.-	200.03'	LC -	299.96'



NOTE:
Sta. 639+00 to Sta. 646+17.5
Tie Bars Shall Be Placed in Right Edge of Conc. Pavt. During Const. as Shown on Std. Dwg. L.J. No.1.

STORM DRAINAGE						
STATION	Dist. From ℄	I-2 Class B Storm Sewer Under Pavt. 12" Lin. Ft.	I-8 Mon. Box	I-8 Inlet No.2-14	E-2 Exc. For Struct.	S-1 Conc. For Struct. Class E
635+75	℄			1		
635+71	Lt.	46'				
635+71	47' Lt.				1	0.23
639+12.08	℄		1			
TOTAL		46	1	1	1	0.23

ITEM SS-18 RIGHT OF WAY FENCE TYPE C-CHAIN LINK		
STATION	SIDE	LENGTH - LIN. FT.
635+00 - 640+00	Rt.	519'
TOTAL		519'

O.L. 75
ODILIA HANSON

BERNARD & ALEEN HARWIG

BEGIN SHEET - STA. 635+00

END SHEET - STA. 640+00

Sta. 635+71
Pipe Culvert Endwall
F.L. Outlet 932.05

Std. Roadway Ditch

Limit of Construction

Well with hand pump

Proposed 12"x 46' I-2 Pipe

24" Willow Stump

Sta. 635+75
Proposed Std. No. 2-14 Inlet

Future Edge of Pavement

20" Wild Cherry

14" Willow

Sta. 639+00
End Std. Type 2-A Curb
Begin Flexible Pavt. Rt.

Conc. Pavt.

12" Catalpa

Well

Stone

Conc.

2½ Sty. Frame House

Conc. Walk

Shrubs

Sta. 639+12.08 C.S.

R/W.

24'-6"

12'-0"

Old Canal

50 Lin. Ft. Std. Paved Gutter, Type I

Proposed Ditch

10" Ash

60" Willow

Frame Garage

Fr. Shed

Fence Corner

Fence Corner

8" Elm

15" Apple

10" Apple

12" Apple

24" Apple

R/W.

Fr. Gar.

#9697
REEVE E. & DORIS L. McDOWELL

#9696
KARL A. & LAVELLE E. PAULIK

#9695
CHESTER B. HAZEL

#10151
EARL D. & FLORENCE KAISER

15" Elm

1½-Sty. Fr. House

1½-Sty. Fr. House

1½-Sty. Shingle House

Fr. Gar.

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

Type C Fence
Chain Link

635 636 637 638 639 640

936.18 937.09 938.01 938.93 939.84 940.76 941.68 942.59 943.51 943.70 943.73 944.26 944.74 945.16

945
940
935
930

Top of Dike

Existing Ground

Proposed Std. No. 2-14 Inlet
F.L. Elev. 932.97
Top Elev. 938.05

+1.834%

P.C. Sta. 639+10

V.C. 500'

930.8 931.3 933.3 934.0 935.4 936.7 937.5 939.0 939.9 939.6 940.2 940.3 940.1 939.5

+22 +38 +12.08 +42.08 +72.08

Excavation	1412	Cu. Yds.
Embankment	5037	Cu. Yds.
Seeding	5945	Sq. Yds.

LINE SHEET - STA. 635+00 TO STA. 640+00

FINAL SURVEY	ORIGINAL SURVEY	BY	DATE
SURVEYED			
PLOTTED			
TRIANGULATE			
NOTE BOOK			
AREAS			
AREAS CHECKED			
NO.			

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA.- 21 - 11.39

Spiral Curve Data

Δ -	54° 25' 22" Lt.	ST -	100.03'
Dc -	2°05'	Xc -	299.91'
R -	2750.20'	Ts -	1564.79'
Ls -	300.00'	Es -	343.79'
θ -	3°07'30"	Lc -	2312.30'
p -	1.36'	Δc -	48°10'22"
K -	149.99'	Yc -	5.45'
LT -	200.03'	LC -	299.96'

S.T. Sta. 642+12.08

Hub & Tack — 109° 50' — 71.66' — Tangent Ahead — 101.70' — 45° 53' — 88° 10' — 99.96' — Hub & Tack — +40

B.M. #21-8 R.R. Spike In Base of 20" Willow
100' Lt. Sta. 644+00
Elev. 936.82

Sta. 643+25 - 645+75
Provide Sodding as Shown on Cross-Sections

Proposed Ditch
6' Bottom Width

Type C Fence
Chain Link

Limit of Construction

R/W

Existing 12" Tile Drain

Top of Dike

S.T. Sta. 642+12.08

F.L. 935.8

O.L. 76
U.S.A.

NOTE:
Sta. 639+00 - Sta. 646+17.5
Tie Bars Shall Be Placed In Right Edge of Conc. Pavt. During Const. As Shown On Std. L.J. No. 1

O.L. 162
VIRGINIA M. SELOGY

Sta. 644+05
Reinf. Conc. Endwall
F.L. Outlet 931.34

BERNARD & ALEEN HARWIG

Sta. 640+51.5
Begin Guard Rail

Fine Aggr. Blanket 12" Deep

Proposed Guard Rail

Drainage Ditch

30" Willow

Precast Concrete Traffic Dividers

3' Curb Radius
18' Lt. Sta. 642+10

Concrete Pavement

3' 12'

Std. Type 6 Curb

2-30" Willows

30" Willow

Prop. 15"x 152' S-27 Pipe
M-6.6(b) or M-6.8(b)

BEGIN SHEET - STA 640+00

℄ OPS. Co. 2522-GI 21

640 641 642 643 644 645

16'

N. 25° 23' 36" W.

24" Willow 36" Willow 30" Twin Willow

Old Canal

Flexible Pavement

Raised Island Approach

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

Proposed 150 Lin. Ft. 8" Underdrain

Future Edge of Pavement

END SHEET - STA. 645+00

F.L. 937.0

MUSKINGUM WATERSHED CONSERVANCY DISTRICT
Sta. 644+05 - 646+00
Provide Sodding as Shown on Cross-Sections.

24" Willow 24" Willow 24" Willow

Remove 44' of Existing Pipe

18" V.C. Drain

24" Oak 24" Oak 24" Oak

Proposed Ditch - 2' Bottom Width

Limit of Construction

Sta. 644+05
Reinf. Conc. Headwall
F.L. Inlet 935.90

Prop. Ditch - 2' Bottom Width

Sta. 641+25 - Reinf. Conc. Endwall F.L. Outlet 934.38

Type C Fence
Chain Link

10" Pine

R/W

#10151
EARL D. & FLORENCE KAISER

#10150
HAZEL BLAIR

MUSKINGUM WATERSHED CONSERVANCY DISTRICT
(To be sold to abutting Owners)

#2697
L.C. REYNOLDS

10' Alley

R/W

STORM DRAINAGE							
STATION	Dist. From ℄	S-27 Pipe For Rdwy Culvert 15" S.S.R.C.C.P. or 15" E.S.V.S. Pipe	E-2 Exc. For Struct.	I-8 Box	I-8 Mon.	S-1 Conc. For Struct. Class C	S-4 Reinf. Steel	E-12 Pipe Removed 18" Lin. Ft.
641+25	86'R		4			1.00	26	
641+25	Rt.							44
642+12.08	℄				1			
644+05		152	62			1.70	48	
TOTAL		152	66		1	2.70	74	44

ITEM I-23	PRECAST WHITE PORTLAND CEMENT CONCRETE TRAFFIC DIVIDERS	
STATION TO STATION	LOCATION	TOTAL
641+00 - 641+60	22.5' Lt. of ℄ to 20' Lt. of ℄	6

ITEM SS-18	RIGHT OF WAY FENCE - TYPE C CHAIN LINK	
STATION	SIDE	LENGTH - LIN. FT.
640+00 - 645+00	Rt.	501
642+40 - 645+00	Lt.	265
TOTAL		766

For Fine Aggregate and 8" Underdrain Tabulation (See Sheet No. 8)

22
48
24

950 / 945 / 940 / 935 / 930

945.16 945.18 945.58 945.80 945.95 946.27 946.34 946.54 946.76 946.77 946.96 947.08 947.10 947.23 947.30 947.25 947.08 946.83 946.58

500' V.C.

+1.834%

-0.500%

P.T. Sta. 644+10

Top of Dike

V.P.I. Sta. 641+60
Elev. 948.28

Existing Ground

Proposed 15" S-27 Pipe

Excavation	746	Cu. Yds.
Embankment	18,989	Cu. Yds.
Seeding	7296	Sq. Yds.

938.8 937.7 937.1 936.7 936.6 938.2 939.0 939.6 936.9 936.6 945.8 945.8 945.7 935.0 933.7 932.67 932.2 932.1 932.0 932.1 932.0

640 +02.08 +32.08 +62.08 +92.08 641 +22.08 +33 +52.08 +82.08 642 +12.08 +17 +43 +47 +56 643 +09 +21 644 +05 645

LINE SHEET - STA. 640+00 TO STA. 645+00

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE AREAS — AREAS CHECKED — BY — DATE

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE AREAS — AREAS CHECKED — BY — DATE

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

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STA. - 21 - 11.39

NOTE: Sta. 639+00 - Sta. 646+17.5
Tie Bars Shall be Placed in Right Edge of Concrete Pavement During Construction as Shown on Std. L.d. No. 1

FOR DETAILS OF LAKE AVENUE SEE SHEET NO. 25

Cinder Block Fdn.

Provide Dumped Rock Ditch Lining

Slope Easement

Type C Fence - Chain Link

Limit of Construction

Proposed Ditch 6' Bottom Width

Sta. 643+25 - 645+75
Provide Sodding as Show Cross Sections

Sta. 646+00
Pipe Culvert End With Cradle F.L. Outlet 934.81
Proposed 36"x154' I-2 Pipe

O.L. 162
VIRGINIA M. SELOGY

Sta. 645+48 End Guard Rail

Concrete Pavement

Std. Type 6 Curb

Flexible 645 Pavement

Std. Type 6 Curb

N 25° 23' 36" W

Old Canal

Future Edge of Pavement

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

Sta. 646+82
Exist. C.B. to be Abondoned

Proposed Std. Roadway Ditch

Limit of Construction

CHARLES 2696 LAUGHLIN JENNIE M.

Type C Fence Chain Link

R/W

2-S-Frame House

BEGIN WORK STA. 3+70

CHARLES R. & MYRTLE A. MEYERS 2695

Sta. 646+98.14 - Rte. 21 = Sta. 5+00 - Lake Ave.

Concrete Pavement

Sta. 646+17.5

Conc. Pavt. 2.5% Rt. Sta. 646+69

2' Curb Radius

Sta. 646+96
Prop. Std. No. 1 M.H.

12" Stone Wall

36" Maple

6" V.C. Pipe

3' Pipe

8'6" Pipe

C.B.

30" Conc. Pipe

Sta. 647+12
Existing C.B. to be Abandoned
Remove Portion of Existing Structure

14" Willow

Sta. 647+81.5

N 25° 23' 36" W

Std. Type 2-A Curb

2' Curb Radius

4' Rt. of Sta. 647+40

Fire Hyd.

Pole

Earth Drive

Garage

#2536 OSCAR W. & ADA Z. SNYDER

#2535 ELWOOD & GRACE BANFIELD

#2534 LORETTA STILWELL

Proposed Ditch

Limit of Construction

Type C Fence - Chain Link

R/W

2½ Story Frame House

2-Story Shingle House

2-Story Frame House

Hedge Row

Brick

conc

conc Block Steps

6" Conc Wall

Transition 225'

24'0"

24'6"

11'0"

12'6"

Sta. 649+63

END SHEET - STA. 650+00

BEGIN SHEET - STA. 645+00

Earth Road

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

MIKE & ANNA DROBNEY

O.L. 163

2 Sty. Fr. House

Frame Garage

Metal Garage

2 Conc.

2" Conc. Walk

2" Water Line

AVENUE N.W.

LAKE

6" Water Line

3" Gas Line

G.V.

W.V.

W.K.

M.H.

S/E

55'R

30'R

75'R

60'R

50'

Sta. 646+98.14 = Sta. 5+00 Lake Ave. N.W.

Prop. Std. No. 1 M.H.
F.L. Elev. 938.66
Top Elev. 946.20

LAKE AVE. N.W. RT.

-0.500%

Exist. 30" Storm Sewer

LAKE AVE. N.W. LT.

Proposed 36" x 154' I-2 Pipe 2.5% Slope

Excavation	610	Cu. Yds.
Embankment	15312	Cu. Yds.
Seeding	4581	Sq. Yds.

946.58 946.33 946.08 945.83 945.58 945.33 945.08 944.83 944.58 944.33 944.08

950 945 940 935 930

932.0 931.8 931.8 932.5 935.2 933.0 931.7 931.4 931.1 930.9 931.6

645 646 647 648 649 650

LINE SHEET - STA. 645+00 TO STA. 650+00

S-22 REMOVAL OF PORTION OF EXISTING STRUCTURE

STATION	DESCRIPTION	CU. YDS.
647+	Existing Conc. Structure	32

STORM DRAINAGE

STATION	Dist. From ℄	I-2 Class B Storm Sewer Under Pavt. 36" Lin Ft.	I-8 Mon. Box	I-8 M.H. No. 1	I-10 Dumped Rock Fill Cu. Yds.	I-16 Catch Basin Abandoned	S-1 Conc. for Structures Class E
645+75-646+00	Lt.				14		
646+00	Lt.						1.73
646+00-646+86		154					
646+82	57' Rt.					1	
646+96	39' Rt.			1			
646+99.98	℄		1				
647+12	9' Lt.					1	
TOTAL		154	1	1	14	2	1.73

ITEM SS-18 RIGHT OF WAY FENCE TYPE C CHAIN

STATION	SIDE	LENGTH LIN. FT.
645+00 - 646+50	Rt.	154
647+31 - 650+00	Rt.	271
645+00 - 646+70	Lt.	170
647+47 - 650+00	Lt.	253
TOTAL		848

FINAL SURVEY — SURVEYED BY, PLOTTED BY, FIELD BOOK, NOTE BOOK, NO., DATE, AREAS, AREAS CHECKED

ORIGINAL SURVEY — SURVEYED BY, PLOTTED BY, FIELD BOOK, NOTE BOOK, NO., DATE, AREAS, AREAS CHECKED

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

24
61

STA.- 21 - 11.39

STORM DRAINAGE							
STATION	Dist. From ℄	I-2 Class B Storm Sewer Under Pavt. 12" Lin. Ft.	I-8 Catch Basin No. 2-2A	E-2 Exc. For Struct.	S-1 Conc. For Struct. Class C	S-4 Reinf. Steel	I-8 Mon. Box.
652+30	℄		1				
652+30	Rt.	68'					
652+30	68' Rt.			2	0.65	20	
654+13.5	℄						1
TOTAL		68'	1	2	0.65	20	1

ITEM SS-18 - RIGHT OF WAY FENCE - TYPE C - CHAIN LINK		
STATION	SIDE	LENGTH - LIN. FT.
650+00 - 653+72	Rt.	372
650+00 - 654+59	Lt.	460
TOTAL		832

NOTE:
Work on This Project Shall Terminate at Station 654+13.50; However if This Project is Constructed Prior to the Adjacent Project, The Embankment Shall Be Completed to Station 654+20 and Sloped 1½:1 To End of Work at Station 654+50.

Material Required to Complete the Above Embankment If Needed, Shall be Paid for at the Contract Bid Price Per Cubic Yard for Item E-4, Borrow.

Excavation	101	Cu. Yds.
Embankment	19005	Cu. Yds.
Seeding	5065	Sq. Yds.

650 +15 +23 +31 651 +54 +89 652 +26 +63 653 654 +13.50 +19.50 +64 +66 +77 +81 655 LINE SHEET - STA. 650+00 TO STA. 655+00

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

25
61

STA.-21-11.39

LAKE AVENUE LT.

ITEM T-71 9" Reinforced Portland Cement Concrete Pavement
Sta. 5+36.12 to 7+32.95 Length 196.83 Lin. Ft.
196.83 x 22.0 ÷ 9 = 481.14 Sq. Yds.
Returns (Planimeter Area) 245.34 Sq. Yds.
TOTAL 726.48 Sq. Yds.

ITEM I-18 6" Stabilized Crushed Aggregate Shoulder
478.00 Lin Ft. 4'-0" Width
478.0 x 4.0 x 0.5 ÷ 27 = 35.41 Cu. Yds.

LAKE AVENUE RT.

ITEM T-71 9" Reinforced Portland Cement Concrete Pavement
Sta. 3+70 to 4+63.88 Length 93.88 Lin. Ft.
93.88 x 22.0 ÷ 9 = 229.48 Sq. Yds.
Returns (Planimeter Area) 206.22 Sq. Yds.
TOTAL 435.70 Sq. Yds.

ITEM I-18 6" Stabilized Crushed Aggregate Shoulders
268.00 Lin. Ft. 4'-0" Width
268.00 x 4.0 x 0.5 ÷ 27 = 19.85 Cu. Yds.

ITEM I-22 Subbase (Grading "A" or "B")
Lake Avenue Lt. & Rt.
253.00 Cu. Yds. (See Subbase Computations)

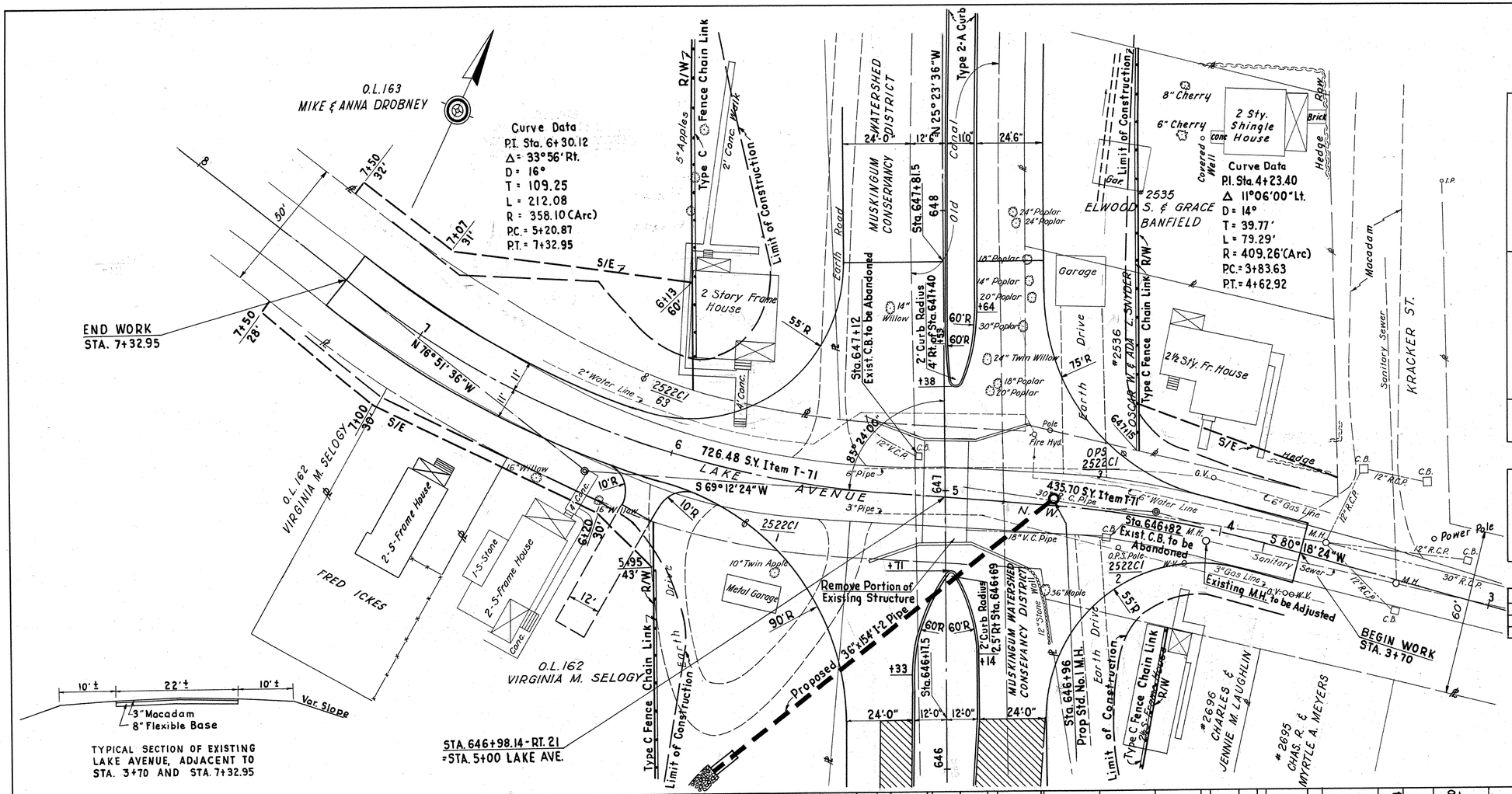
DRIVE LT. STA. 6+00

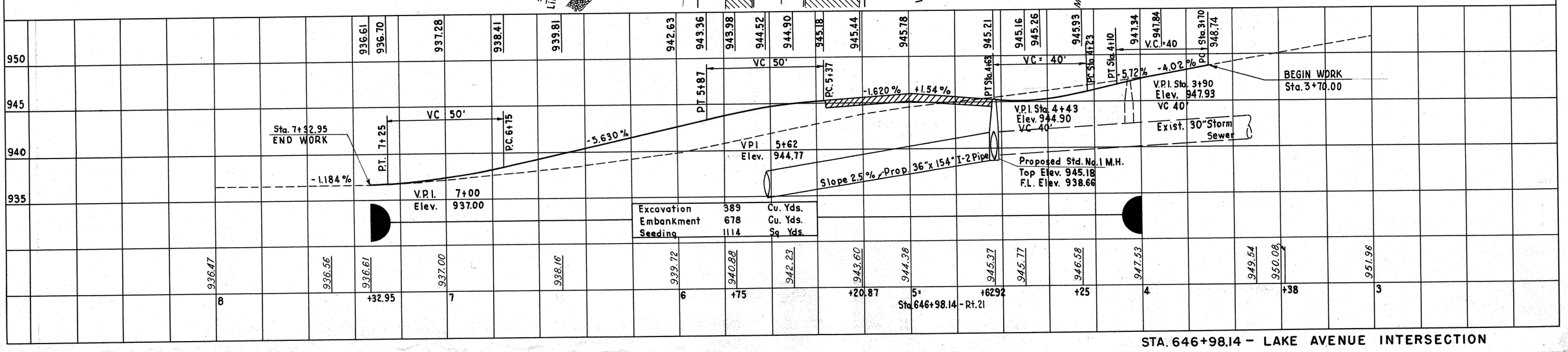
* 5 Cu. Yds. Excavation
* 10 Cu. Yds. Embankment
23.6 Sq Yds. 7" Portland Cement Concrete Pavement
14.2 Cu. Yds. 8" Crushed Aggregate Base Course

* Quantities included in Lake Avenue Quantities

STORM DRAINAGE

STATION	LOCATION	Manhole Adjusted to Grade
4+05	5' Lt.	1
	TOTAL	1





STA. 646+98.14 – LAKE AVENUE INTERSECTION

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

26
61

STA.-21-11.39

R/W (Adjacent Project)

Brush & Small Trees

OHIO WATER SERVICE CO.

Garden

Tuscarawas River

Top of Bank

BEGIN SHEET - STA. 655+00

END SHEET - STA. 660+00

Edge of Pavement (Under Separate Contract)

655 656 657 N. 25° 23' 36" W. 658 659 660

Edge of Pavement (Under Separate Contract)

Garden

℄

R/w. (Adjacent Project)

950
945
940
935
930
925

Existing Ground

929.4 929.5 929.1 930.0 930.2 924.2

655 656 657 658 659 660

LINE SHEET- STA. 655+00 TO STA. 660+00

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

27
61

STA.-21-11.39

BEGIN SHEET-STA. 660+00

END SHEET-STA. 665+00

Edge of Pavement
(Under Separate Contract)

660 661 662 N. 25° 23'36" W. 663 664 665

P.C. 664+56.19

Edge of Pavement
(Under Separate Contract)

Top of Bank

Tuscarawas River

Top of Bank

Heavy Woods

Light Woods & Brush

Junk Yard

100'

66'

℄ Southbound Track

℄ Northbound Track

℄ Spur

℄ Main Track

℄ Spur

B. & O. R.R.

PENNA. R.R.

950
945
940
935
930
925

Existing Ground

Tuscarawas River

924.2

927.7

℄ P.R.R. Spur Tr. +76.66

℄ P.R.R. Main Track +98.25

℄ P.R.R. Spur Track 663 +19.85

℄ B.&O.R.R. N.B. Track +46.48
Top Rail 936.35

℄ B.&O.R.R. S.B. Track +90.95
Top Rail 938.6
937.7

℄ T.R. 353 Relocated 664

942.0

660 661 662 663 664 665

LINE SHEET – STA. 660+00 TO STA. 665+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

28
61

STA.- 21 - 11.39

Seeding	
End Width	Sq. Yd.
28	
	146
29	
	356
35	
	177
18	
	73
15	
25	
0	

Seeding 1525 Sq. Yds.

R/W
941.86
940.66
940.66
939.46
Sta. 603+60
End 6" Underdrain Rt.
R/W
Corner School
℄ 939.03
Subbase A = 29
Fine Aggregate A = 38
℄ 932.99
940.66
603+46
934.9
Slope 0.5 %
R/W
941.30
940.10
940.10
938.90
School
1st. Fl. Elev. 942.2
R/W
℄ 938.80
Subbase A=29
Fine Aggregate A = 38
℄ 932.90
603+00
R/W
940.07
938.87
938.87
Sta. 601+80
Prop. Std. No. 2-10 Inlet
Top Elev. 939.17
℄ Elev. 932.50
Slope 1.0 %
Sta. 602+20
Prop. Std. No. 2-2-A C.B. (Without Windows)
Grate Elev. 937.00
℄ C.B. 933.06
House
937.49
Sta. 602+20
Begin 6" Underdrain Rt.
R/W
℄ 938.30
Subbase A=29
Fine Aggregate A=38
Slope 1.75 %
938.87
602+00
935.6
Prop. 12"x 56' I-2 Pipe
Sta. 601+79
8" Udrain ℄ 932.66
Sta. 601+75
8" Udrain ℄ 933.00
R/W
939.88
Subbase A= 50
938.58
House
937.28
Existing R/W
935.05
Slope 4%
Sta. 601+40-Lt.
Prop. Std. No. I-2 A C.B.
℄ C.B. 936.50
Grate Elev. 938.33
Existing 2" Toe Drain
Prop. 12"x 22"
I-2 Pipe
℄ 935.62
Fine Aggregate A= 38
F.L. 934.00
Exist. Pavt.
Cherry Road
Prop. 12"x 34' I-2 Pipe
℄ 931.91
938.58
601+40
935.2
Sta. 601+60 Lt.
Existing M.H. to be Reconstructed to Grade
Rebuild Top to Elev. 939.9
940.60
R/W
Sta. 601+20
Begin Std. Paved Gutter-
Type 2
Exist. 24" Storm Sewer
℄ 923.7
Existing R/W
938.70
Subbase A= 21
E.R.
Existing Pavt.
Cherry Road
Fine Aggregate A = 41
Sta. 601+00
BEGIN FINE AGGREGATE
938.88
601+00
939.3
Sta. 601+00
BEGIN 8" UNDERDRAIN IN MEDIAN
℄ 935.00
BEGIN PROJECT
STA. 600+98.24
Sta. 600+60
BEGIN EARTHWORK
Sta. 600+70
Sta. 600+60
60 50 40 30 20 10 ℄ 10 20 30 40 50 60

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
7	292		
		22	445
19	230		
		94	724
32	161		
		69	302
30	111		
		103	87
109	7		
		81	5
0	0		

Excavation 4.07 Cu. Yds.
Embankment 4024 Cu. Yds.

CROSS SECTIONS STA. 601+00 TO STA. 603+46

FED. AID DIVISION	STATE	PROJECT		29
2	OHIO			61

STA. - 21 - 11.39

Seeding			End Area		Cu. Yds.	
End Width	Sq. Yd.		Cut	Fill	Exc.	Emb.
76			10	421		
	811				133	1528
70			62	404		
	367				64	769
62			7	427		
	333				9	895
58			3	540		
	544				22	1759
40			9	410		
	204				16	702
28			7	292		

Sta. 606+44.5
End Curb Lt. & Rt.
End Median Pav't.

Sta. 606+35
Prop. Std. No. 2-6 Inlet
Top Elev. 941.42
Flt. Elev. 935.50

Sta. 606+00
Begin 6" Underdrain Rt.

Sta. 606+35
Reinf. Conc. Endwall
0.65 C.Y. Cl. C. Conc.
20 Lbs. Reinf. Steel
2 C.Y. Struc. Exc.

Sta. 604+70
Prop. Std. M.H. No. 2
F.L. M.H. 925.10
Top Elev. 942.8

Sta. 603+95 Rt. of Median
End Conc. Pavt. and 2-A Curb
Begin Flex. Pav't. and Type 6 Curb

CROSS SECTIONS STA. 604+00 TO STA. 607+00

FED. AID DIVISION	STATE	PROJECT		SHEET NO.	TOTAL SHEETS
2	OHIO			30	61

STA.- 21 - 11.39

Seeding End Width	Seeding Sq. Yd.
88	
	394
90	
	593
88	
	325
83	
	609
83	
	444
77	
	425
76	

Seeding 4301 Sq.Yds.

Sta. 610+00

R/W — Slope 1.1 % — 939.20

Ft. 931.80

15" Toe Drain

Sta. 610+00
Prop. Std. M.H. No. 2
Ft. M.H. 925.73
Top 938.9

Subbase A=13

Fine Aggr. A=38

Prop. 15"x30' I-2 Pipe Slope 7.8 %

Ft. 926.90

R/W — Exist. 24" Pipe — 939.92

938.24

Sta. 610+05 - 8" Udrain Ft. 930.00
Sta. 610+01 - 8" Udrain Ft. 930.00

Sta. 610+00
Prop. Std. No. 2-10 Inlet
Ft. Inlet 929.24
Top 938.41

E.R. E.R.

Prop. 15"x56' I-2 Pipe ← Slope 1.0 %

Ft. 930.40

938.24
609+60.16
932.9

Sta. 609+96
End 6" Udrain in Median

Sta. 610+00
R/W

Ft. 929.9

Sta. 610+03
Reinf. Conc. Headwall
Ft. Inlet 929.80
0.85 C.Y. Cl. C. Conc.
24 Lbs. Reinf. Steel
3 C.Y. Struct. Excav.

Ft. 938.79

939.92

938.74

Subbase A=13

E.R. E.R.

15" Toe Drain

Sta. 609+03
Existing C.B. 32' Lt.
To be abandoned and
Pipes connected

Fine Aggr. A=37

Ft. 931.00

938.74
C.S. 609+00.16
932.6

Sta. 608+80
End Stabilized Shoulder
Begin Type 2-A Curb

House
1st. Fl. Elev. 936.7

R/W 75'

Ft. 932.30

940.22

939.02

Ft. 939.35

Sta. 608+37 41' Lt.
Exist. M.H.

Exist 18" Toe Drain

Subbase A=14

Fine Aggr. A=37

939.02
608+66
933.4

Ft. 931.34

House Corner

R/W 75'

Ft. 932.50

940.77

939.57

Ft. 939.48

Slope 0.2 %

Subbase A=16

Fine Aggr. A=39

939.57
608+00
934.4

Ft. 932.00

House
1st. Fl. Elev. 935.7

R/W 75'

Ft. 932.90

941.18

939.98

939.68

Ft. 939.58

Garage

Subbase A=17

Fine Aggr. A=38

939.98
607+50
932.9

Ft. 932.50

House
1st. Fl. Elev. 936.0

R/W 75'

Ft. 933.20

607+00 60 50 40 30 20 10 0 10 20 30 40 50 60 607+00

Excavation	301	Cu. Yds.
Embankment	7410	Cu. Yds.

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
12	333		
		21	523
17	376		
		34	843
14	383		
		10	475
2	368		
		11	868
7	342		
		8	718
2	433		
		11	791
10	421		

CROSS SECTIONS STA. 607+50 TO STA. 609+60.16

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

31
61

STA.-21-11.39

Seeding	
End Width	Sq. Yd.
	433
64	
	556
71	
	497
78	
	533
82	
	394
88	

Seeding 3767 Sq.Yds.

Sta. 613+00
Prop. Std. 2-2-A C.B.
Without Windows
R. Grate 934.62
R. C.B. 932.23
W=4.2
R. 934.70
Existing 12" Toe Drain
R/W
935.72
936.10
936.10
Subbase A=18
E.R.
Prop. 12"x 40' I-2 Pipe
Slope 1.0%
Fine Aggr. A=34
R. 935.74
E.R.
R/W
Sta. 613+20
Prop. Std. No. 2-10 Inlet
R. Inlet 932.63
Top 936.71
Sta. 613+20
Begin Median Ditch
R. 930.24
936.10
933.4
T.S. 612+99.78
Sta. 612+95 Lt.
End Std. Paved Gutter, Type 2
Begin Paved Gutter, Type 4
936.26
936.26
R. 935.15
Existing 12" Toe Drain
R/W
Subbase A=13
Fine Aggr. A=36
Prop. 12"x 20' I-2 Pipe Slope 1.0%
15" I-2 Pipe
R. 929.3
Existing 24" Storm Sewer
Sta. 611+80
Prop. Std. No. 2-10 Inlet
R. Inlet 929.5
Top 936.93
R. 930.05
E.R.
E.R.
R/W
936.26
S.T. 612+00.16 Bk.=
S.T. 612+25.69 Ah.
932.6
Sta. 611+70 Lt.
Exist. M.H. to be Reconstructed
to Grade Using New Casting.
R. 926.2
937.00
936.76
R/W
R. 935.82
Existing 12" Toe Drain
Subbase A=13
Fine Aggr. A=38
R. 932.34
E.R.
E.R.
R/W
Slope 1.1%
936.76
611+40.16
932.6
Existing 24" Storm Sewer
R/W
937.73
937.25
R. 936.48
Subbase A=13
Fine Aggr. A=38
R. 931.33
R/W
Existing 15" Toe Drain
Existing 24" Storm Sewer
937.25
610+80.16
933.2
House
R/W
937.75
610+20.16
933.4
610+00
60
50
40
30
20
10
0
10
20
30
40
50
60
610+00

Excavation	530 Cu. Yds.
Embankment	3061 Cu. Yds.

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
41	137		
		59	464
2	201		
		4	492
2	242		
		4	543
2	247		
		21	861
12	333		

CROSS SECTIONS STA. 610+20.16 TO STA. 612+99.78

FED. RD. DIVISION	STATE	PROJECT		32
2	OHIO			61

STA.-21-11.39

Seeding		End Area		Cu.Yds.	
End Width	Sq. Yd.	Cut	Fill	Exc.	Emb.
84		90	318		
	487			172	459
62		65	95	100	148
65	281	71	106		
	148			54	82
67		74	112		
	423			148	166
60		59	37		
	420			130	171
66		58	117		
	433			110	282
64		41	137		

Sta. 615+00

R/W

937.30 — 938.45 — 938.45 — 939.60

Ft. 936.00

12" Toe Drain

E.R. — Subbase A=14 — E.R.

Fine Aggr. A=38

Ft. 937.95

Ft. 930.99

938.45
S.C. 615+99.78
936.3

937.03 — 937.97 — 937.97 — 938.91

Ft. 935.82

12" Toe Drain

E.R. — Subbase A-14 — E.R.

Sta. 615+20
Std. No. 2-10 Inlet
Ft. Inlet 934.21
Top 938.29

Fine Aggr. A=35

Ft. 937.47

Ft. 930.84

937.97
615+39.78
935.9

936.78 — 937.49 — 937.49 — 938.20

W=5.2'

Ft. 935.64

12" Toe Drain

Sta. 614+80 Lt
End Paved Gutter, Type 4.
Begin Std. Paved Gutter, Type 2.

E.R. — Subbase A=14 — E.R.

Fine Aggr. A=35

Ft. 936.99

Prop. 12" I-2 Pipe

Ft. 930.69

937.49
614+79.78
935.8

936.54 — 937.01 — 937.01 — 937.48

W=4.6'

Ft. 935.40

12" Toe Drain

E.R. — Subbase A=14

Fine Aggr. A=35

Ft. 936.51

Prop. 12" I-2 Pipe

Ft. 930.54

937.01
614+19.78
935.7

Ft. Elev. 940.4

936.15 — 936.53 — 936.53 — 936.77

W=5.0

Ft. 935.00

12" Toe Drain

Subbase A=14 — E.R.

Fine Aggr. A=35

Ft. 936.03

Prop. 12" I-2 Pipe

Ft. 930.39

936.53
613+59.78
934.4

612+99.78 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 612+99.78

CROSS SECTIONS STA. 613+59.78 TO STA. 615+99.78

FED. RD. DIVISION	STATE	PROJECT		33
2	OHIO			61

STA.-21-11.39

Seeding	
End Width	Sq. Yd.
94	
	978
82	
	463
84	

Seeding 4813 Sq.Yds.

R/W

Existing 12" Toe Drain

Ft. 936.75

Subbase A=17

Fine Aggr. A=43

938.47

939.65

939.65

940.83

Ft. 939.15

Prop. 42" I-2 Pipe

Ditch

Ft. 933.75

21" I-2 Pipe

Ft. 934.60

R/W 75'

Ft. 931.37

939.65
617+50
936.3

939.34

940.52

Sta. 617+11
Std. No. 1 Manhole
Ft. M.H. 933.95
Top 940.00

R/W 80'

Ft. 938.84

Slope 0.5%

Slope 0.5%

Exist. 36" S. Sewer

Inv. 934.00

Prop. 42"x306' I-2 Pipe

Inv. 934.20

Prop. 36"x12' I-2 Pipe

939.34
617+11
936.3

939.27

940.45

R/W 79'

Ft. 938.77

Ft. 937.25

939.27
617+02
936.3

R/W

Existing 12" Toe Drain

Ft. 936.25

Subbase A=14

Fine Aggr. A=38

937.67

938.85

938.85

940.03

Ft. 938.35

Ft. 937.00

R/W

Ft. 931.12

938.85
616+50
937.9

939.81

Ft. 938.13

R/W

938.63
616+23
936.7

615+99.78 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 615+99.78

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
58	412		
		294	1048
101	154		
		178	439
90	318		

Excavation 2052 Cu. Yds.
Embankment 5254 Cu. Yds.

CROSS SECTIONS STA. 616+23 TO STA. 617+50

FED. RD. DIVISION	STATE	PROJECT		34
2	OHIO			61

STA.-21-11.39

Seeding		End Area		Cu. Yds.	
End Width	Sq. Yd.	Cut	Fill	Exc.	Emb.
101	1078	268	123		
				806	830
93		167	325		
				248	697
92	514	101	428		
				147	810
90	506	58	447		
88		58	477		
				107	823
94	506	58	412		

Ahead
Back

Sta. 620+10
End Std. Paved Gutter, Type 2

Sta. 620+00
Pipe Culvert E/dw.
Ft. Outlet 932.42
0.76 C.Y. E/Conc.
4 C.Y. Struct. Exc.

Sta. 619+95
Prop. 42" I-2 Pipe
Ft. 933.25
Ditch
2:1
Slope 11.4%
Subbase A=20
Prop. 12"x50' I-2 Pipe
Sta. 620+10
Reinf. Conc. Headwall
Ft. Outlet 932.42
0.65 C.Y. C. Conc.
20 Lbs. Reinf. Steel
2 C.Y. Struct. Excav.

Sta. 619+00
End Fine Aggregate Blanket

Sta. 619+00
End 8" Udrain In Median

Sta. 620+07
Std. No. 2-10 Inlet
Ft. Inlet 938.15
Top 942.21

Ft. 941.95
Ft. 941.15
Ft. 940.90
Ft. 940.35
Ft. 940.10
Ft. 939.95
Ft. 939.55
Ft. 937.60

Ft. 934.65
Subbase A=21
Prop. 42" I-2 Pipe
Ditch
Fine Aggr. A=52
Ft. 931.75

Ft. 935.35
Subbase A=21
Prop. 42" I-2 Pipe
Ditch
Fine Aggr. A=50
Inv. 933.22
Ft. 931.62

Ft. 936.05
Subbase A=23
Fine Aggr. A=48
Ditch
Prop. 42" I-2 Pipe
Ft. 933.49
Ft. 931.50
12" Toe Drain

Sta. 618+00 - Sta. 619+00
Provide Sodding 0.75' Above
Bottom of Ditch.
72 Sq. Yds.

Sta. 618+00
Reinf. Conc. Headwall
Ft. Inlet 935.10
1.20 C.Y. "C" Conc.
30 Lbs. Reinf. Steel
2 C.Y. Struct. Excav.

House
Fl. El. 947.2

House
1st. Fl. El. 949.7

House
1st. Fl. El. 948.1

941.27
942.45
942.45
942.83
940.47
941.65
941.85
939.67
940.85
940.85
942.03
939.27
940.45
940.45
941.63
938.87
940.05
940.05
941.23

621+00
942.45

620+00
941.65
945.4

619+00
940.85
935.9

618+50
940.45
934.4

618+00
940.05
935.0

R/W
E.R.
Ditch

617+50 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 617+50

CROSS SECTIONS STA. 618+00 TO STA. 621+00

FED. RD. DIVISION	STATE	PROJECT		35
2	OHIO			61

STA. - 21 - 11.39

Seeding				End Area		Cu. Yds.	
End Width	Sq. Yd.			Cut	Fill	Exc.	Emb.
124		943.48	944.66				
			944.66				
			Ft. 944.16				
			945.84				
			Ft. 943.50				
		2:1	Subbase A=21				
			944.66				
			624+00				
			948.9				
			R/W				
	611	Ditch		388	86		
		943.25	944.43				
			944.43				
			Ft. 943.93			482	94
			945.61				
			Ft. 943.25				
		2:1	Subbase A=21				
96			944.43				
			623+50				
			944.9				
			R/W				
	492	Ditch		133	15		
		942.87	944.05				
			944.05				
			Ft. 943.55			304	14
			945.23				
			Ft. 943.00				
			R/W				
81		Subbase A=21					
			944.05				
			623+00				
			946.3				
			R/W				
		Ditch		195	0		
		943.65	944.83				
		Garage	Ft. 943.15				
		Fl. El. 942.7	Ft. 942.75				
			R/W				
	928					487	44
		943.65					
		622+50					
		942.07	943.25				
		House	943.25				
		Fl. El. 942.7	Ft. 942.75				
			944.43				
			House				
			Fl. El. 947.6				
			R/W2				
86			Ft. 942.50				
			943.25				
			622+00				
			942.6				
	2078	R/W		68	24		
		Ditch				1244	544
101				268	123		

Seeding Sq. Yds. 5509

Excavation Cu. Yds. 4150

Embankment Cu. Yds. 1238

620+00 60 50 40 30 20 10 **6** 10 20 30 40 50 60 620+00

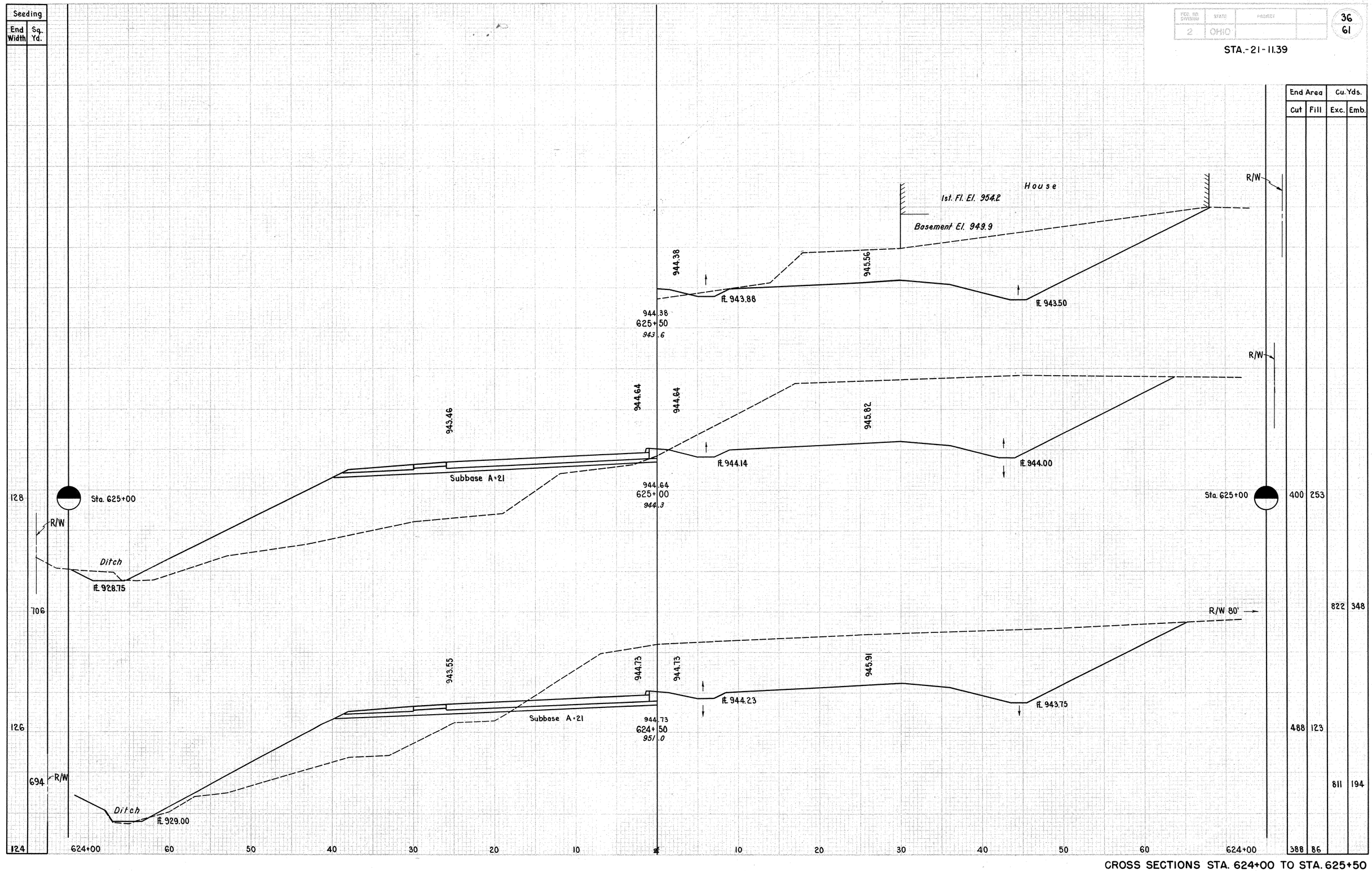
CROSS SECTIONS STA. 622+00 TO STA. 624+00

FED. RD. DIVISION	STATE	PROJECT		36 61
2	OHIO			

STA.-21-11.39

Seeding	
End Width	Sq. Yd.
128	
706	
126	
694	
124	

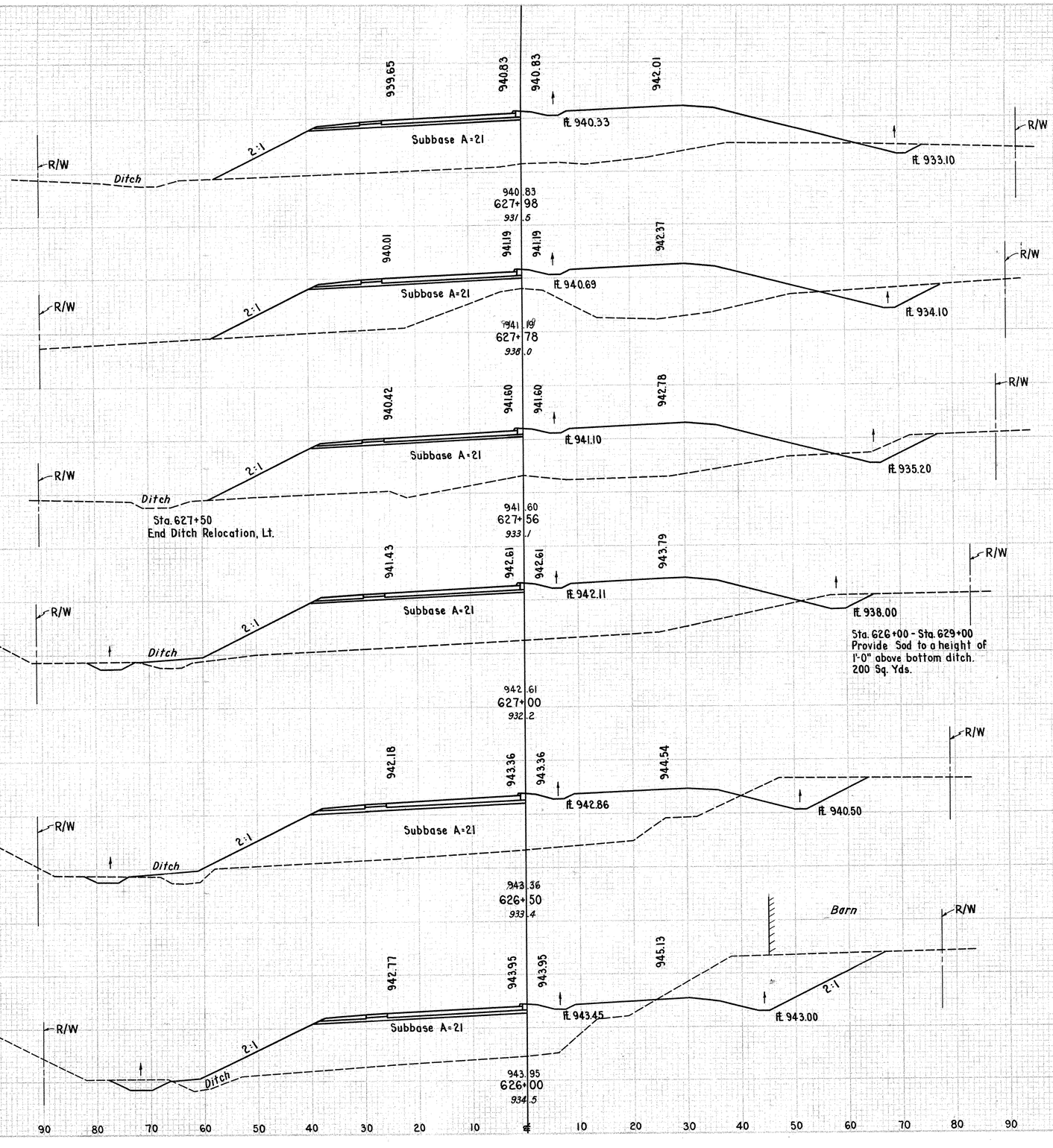
End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
400	253		
		822	348
488	123		
		811	194
388	86		



CROSS SECTIONS STA. 624+00 TO STA. 625+50

Seeding	
End Width	Sq. Yd.
128	
	289
132	
	324
133	
	852
141	
	786
142	
	789
142	
	1500
128	

Seeding 7739 Sq.Yds.



Excavation	Cu.Yds.	2192
Embankment	Cu.Yds.	13251

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
13	820		
		21	563
45	700		
		32	627
34	840		
		65	1791
29	887		
		113	1518
93	752		
		329	1224
262	570		
		1226	1524
400	253		

FED. RD. DIST. NO.	STATE	PROJECT	
2	OHIO		

37
61

STA.- 21 - 11.39

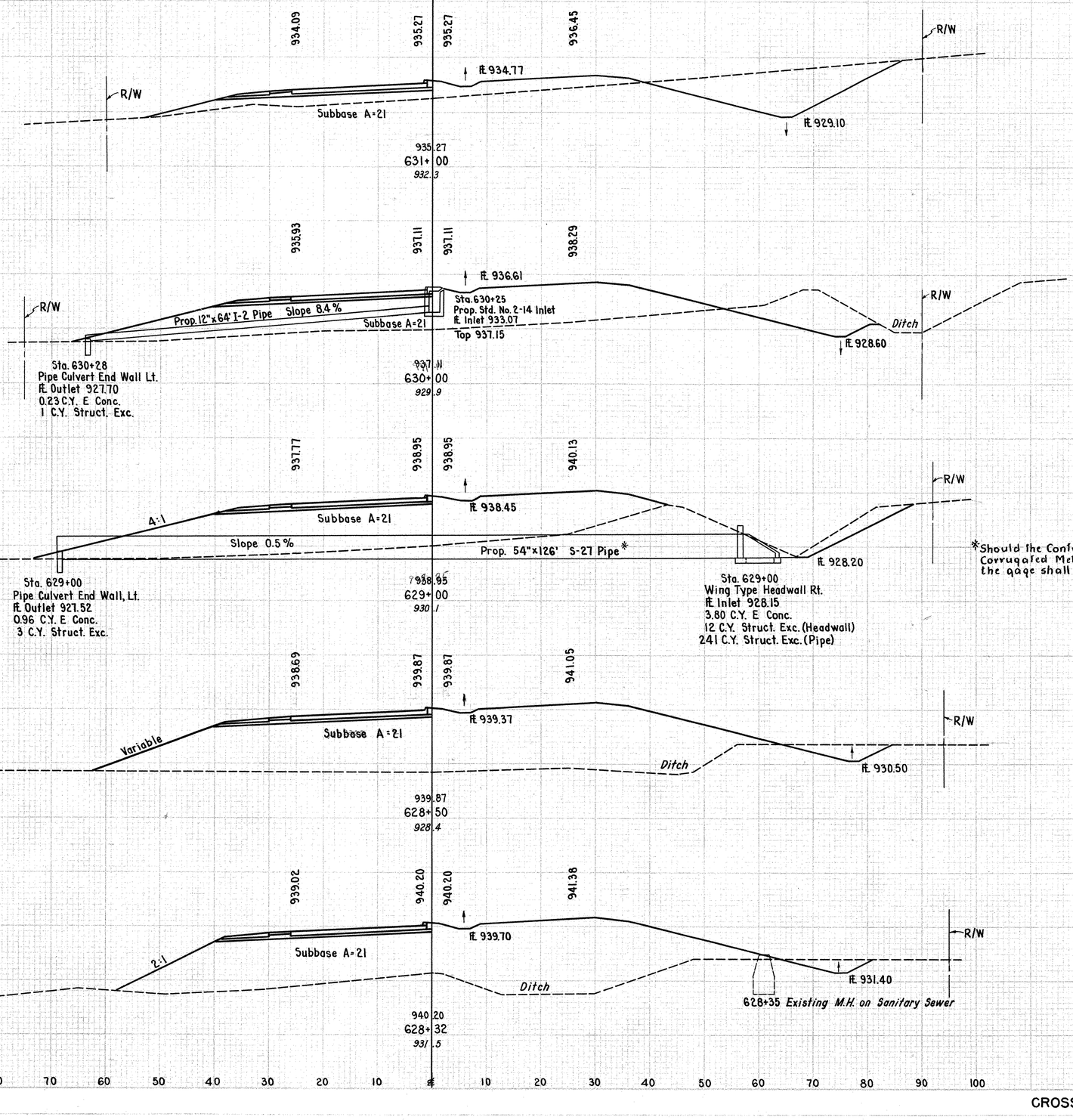
CROSS SECTIONS STA. 626+00 TO STA. 627+98

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

38
61

STA.- 21 - 11.39

Seeding End Width	Seeding Sq. Yd.
126	
	1478
140	
	1617
151	
	814
142	
	275
133	
	493
128	



End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
210	160		
		611	1439
120	617		
		293	2502
38	734		
		69	1673
36	1073		
		20	688
25	992		
		24	1141
13	820		

CROSS SECTIONS STA. 628+32 TO STA. 631+00

FED. OD. DIVISION	STATE	PROJECT		39
2	OHIO			61

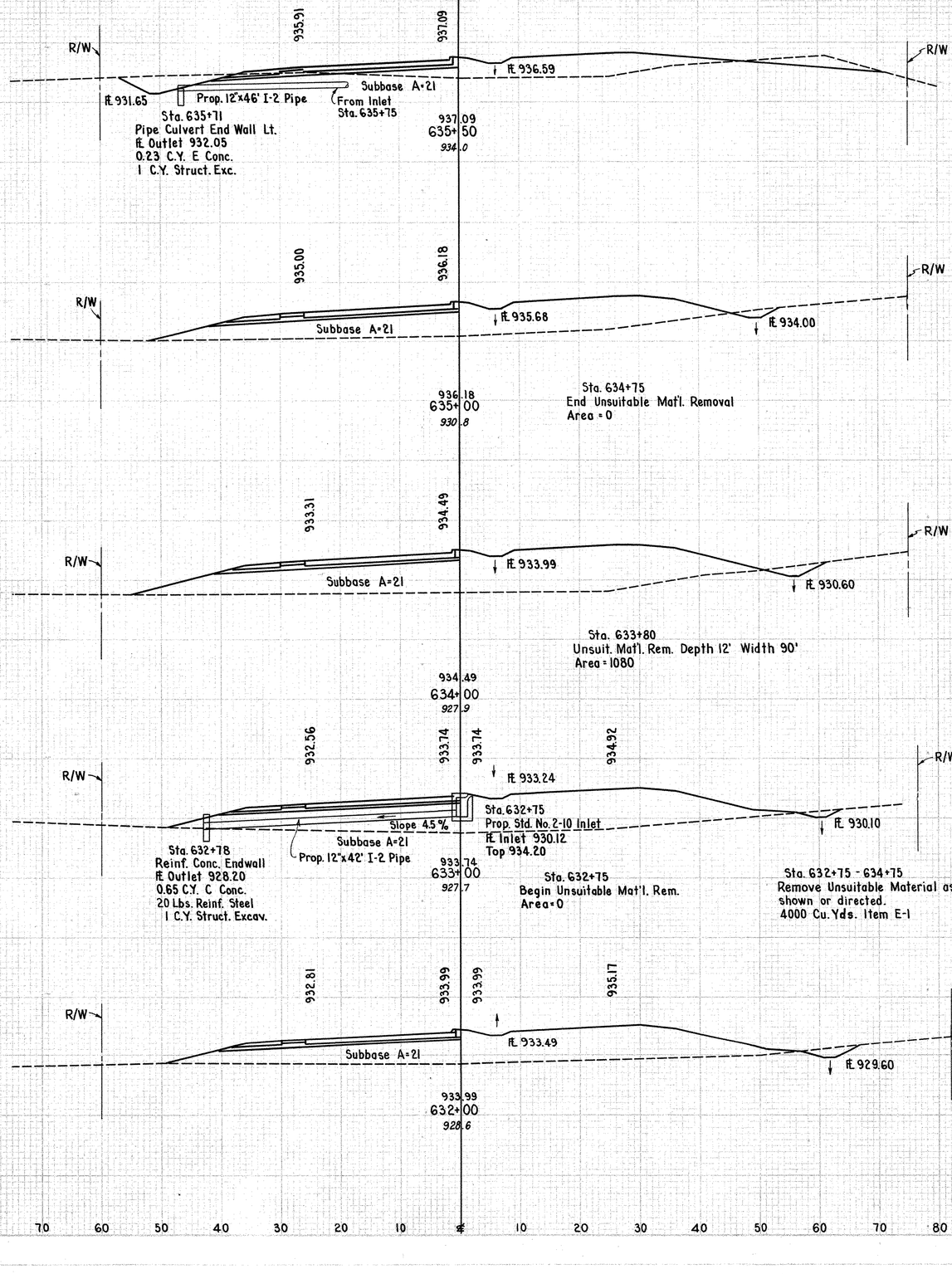
STA. - 21 - 11.39

Seeding End Width	Seeding Sq. Yd.
105	
	561
97	
	1128
106	
118	
106	
	1189
108	
	1300
126	

Seeding 6273 Sq. Yds.

Excavation 1106 Cu. Yds.
Embankment 1357 Cu. Yds.

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
68	148		
		69	467
7	356		
		31	1593
10	504		
		30	1744
6	438		
		28	1548
9	398		
		406	1033
210	160		



CROSS SECTIONS STA. 632+00 TO STA. 635+50

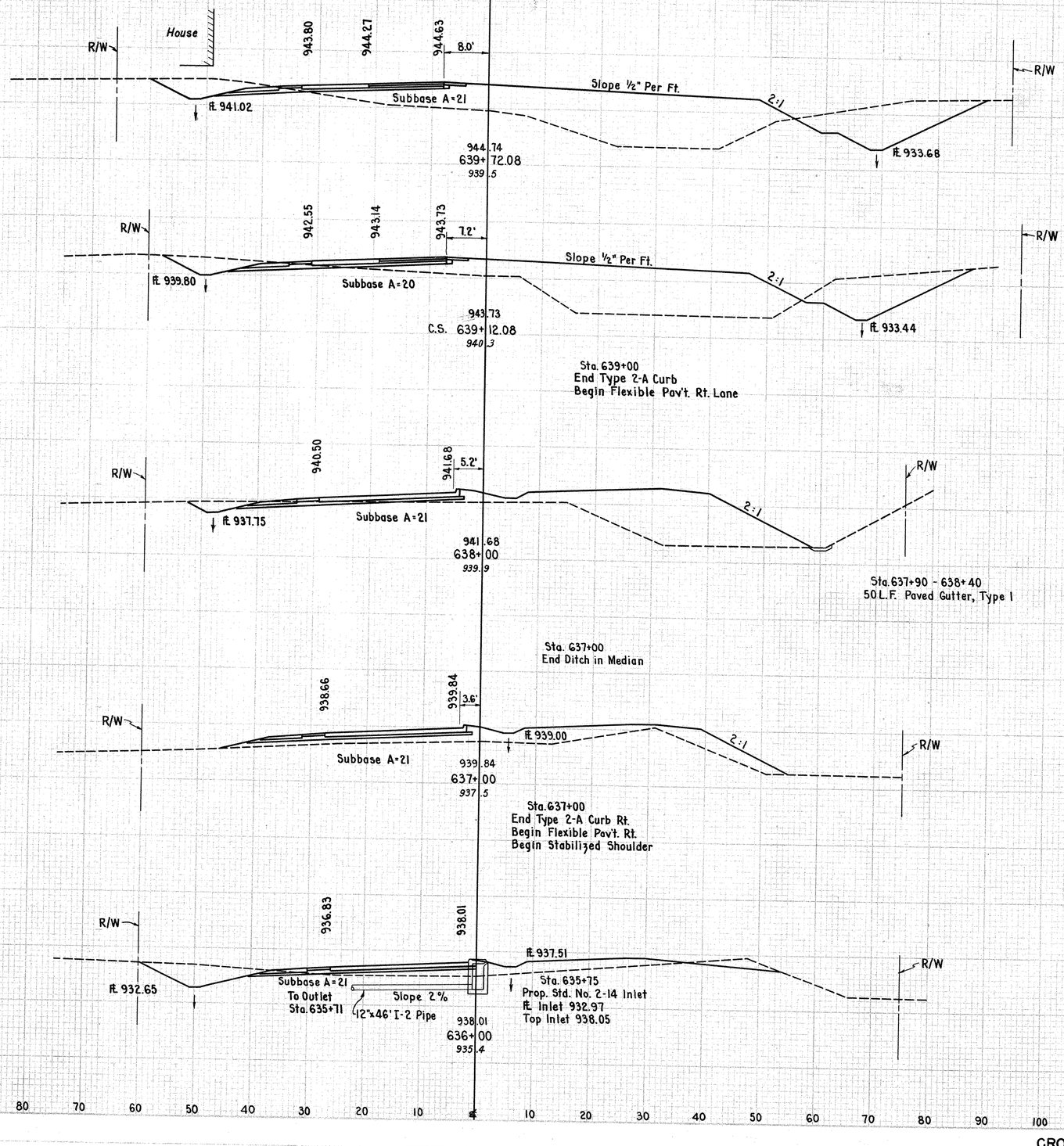
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

40
61

STA.- 21 - 11.39

Seeding	
End Width	Sq. Yd.
131	
	867
129	
	1420
99	
	1072
94	
	1061
97	
	561
105	

Seeding 5945 Sq. Yds.

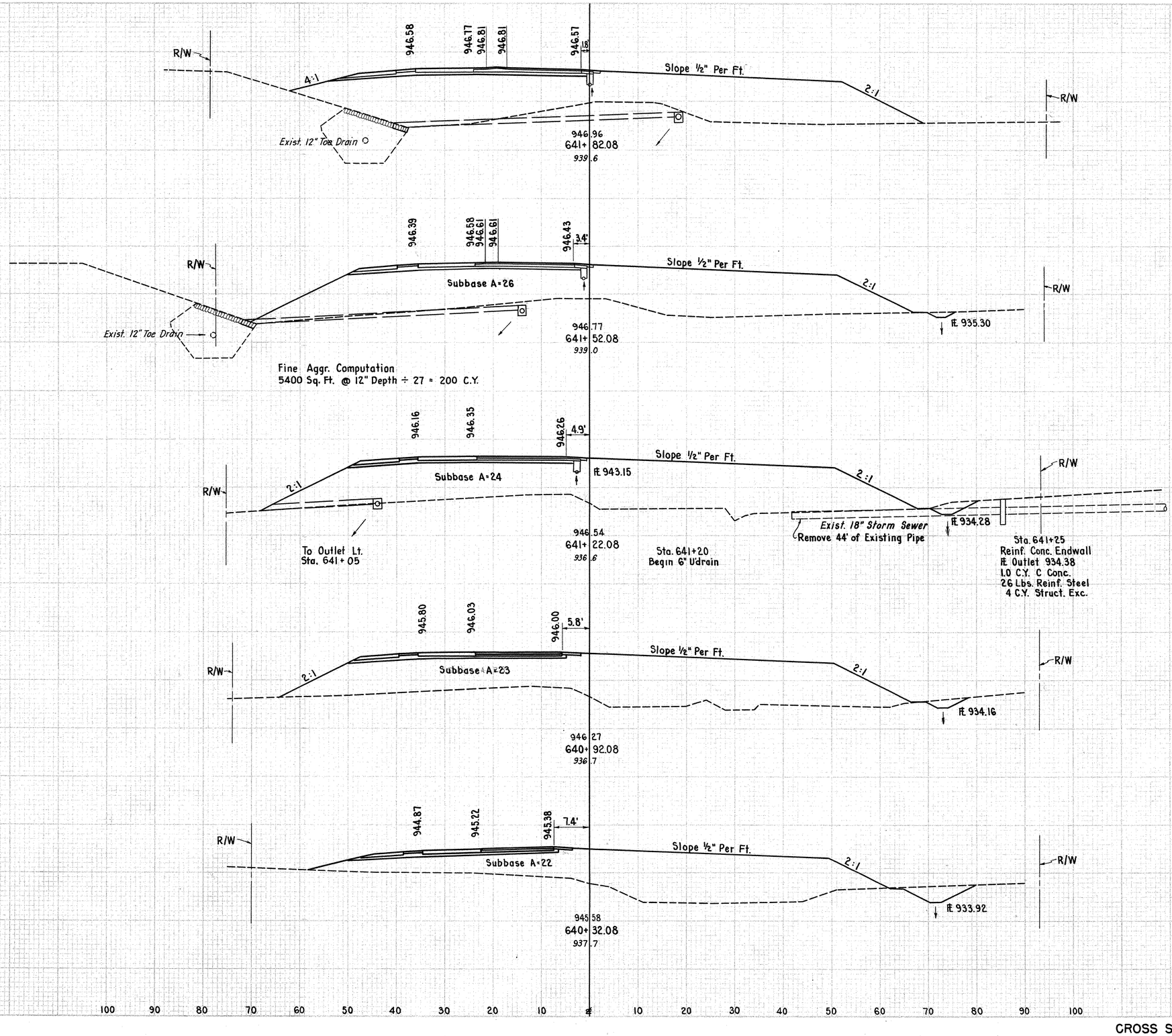


Excavation 1412 Cu. Yds.	Embankment 5037 Cu. Yds.

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
196	490		
		417	1007
179	416		
		428	1492
27	303		
		50	852
0	157		
		148	441
80	81		
		137	212
68	148		

CROSS SECTIONS STA. 636+00 TO STA. 639+32.08

Seeding	
End Width	Sq. Yd.
112	
	402
129	
	435
132	
	435
129	
	853
127	
129	456
	403
131	



End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
110	1023		
		84	1121
42	994		
		33	1115
17	1013		
		16	1088
11	945		
		47	1866
30	734	89	795
119	604		
		163	566
196	490		

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

41
61

STA.-21-11.39

CROSS SECTIONS STA. 640+32 TO STA. 641+82.08

FED. RD. DIVISION	STATE	COUNTY		42
2	OHIO			61

STA. - 21 - 11.39

Seeding		
End Width	Sq. Yd.	
152		
	1330	
133		
166		
116		
	854	
132		
	450	
100		
112	353	

Seeding 7296 Sq.Yds.

Sta. 643+25 - 645+75
Provide Sodding 1.75' Above
Ditch Bottom
360 Sq.Yds.

946.68 946.87 946.98 946.98 946.67

Slope ½" Per Ft.

2:1 4:1

R/W R/W

Subbase A=27

Prop. 15" x 152' S-27 Pipe Slope 3 %

Ft. 931.29 Ft. 936.00

Sta. 644+05
Reinf. Conc. Endwall
Ft. Outlet 931.34
0.85 C.Y. C Conc.
24 Lbs. Reinf. Steel
3 C.Y. Struct. Exc.

947.06
644+05
932.0

Sta. 644+05
Reinf. Conc. Headwall
Ft. Inlet 935.90
0.85 C.Y. C Conc.
24 Lbs. Reinf. Steel
4 C.Y. Struct. Exc. (Edw.)
55 C.Y. Struct. Exc. (Pipe)

946.92 947.11 947.19 947.19 946.91

Sta. 643+25
Begin Ditch Lt.
6' Bottom Width

Subbase A=26

4:1

R/W R/W E.R. E.R.

Ft. 941.10

Sta. 643+20
Begin Ditch Rt.

947.30
643+21
932.6

946.92 947.11 947.19 947.19 946.91

Slope ½ Per Ft.

Subbase A=26

2:1

R/W R/W

947.30
643+09
933.7

946.85 947.04 947.10 947.10 946.84

Slope ½" Per Ft.

Subbase A=24

2:1 3:1

R/W R/W

947.23
642+47
945.8

946.72 946.91 946.96 946.96 946.71

R/W

Slope ½" Per Ft.

Subbase A=17

2:1

R/W

947.10
642+12.08
936.9

641+82.08 100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100 641+82.08

Excavation 746 Cu. Yds. / Embankment 18,989 Cu. Yds.	End Area		Cu. Yds.	
	Cut	Fill	Exc.	Emb.
	42	1410		
			82	4258
	11	1327		
			2	572
	0	1248		
			6	1954
	5	454		
			81	753
	120	710		
			128	963
	110	1023		

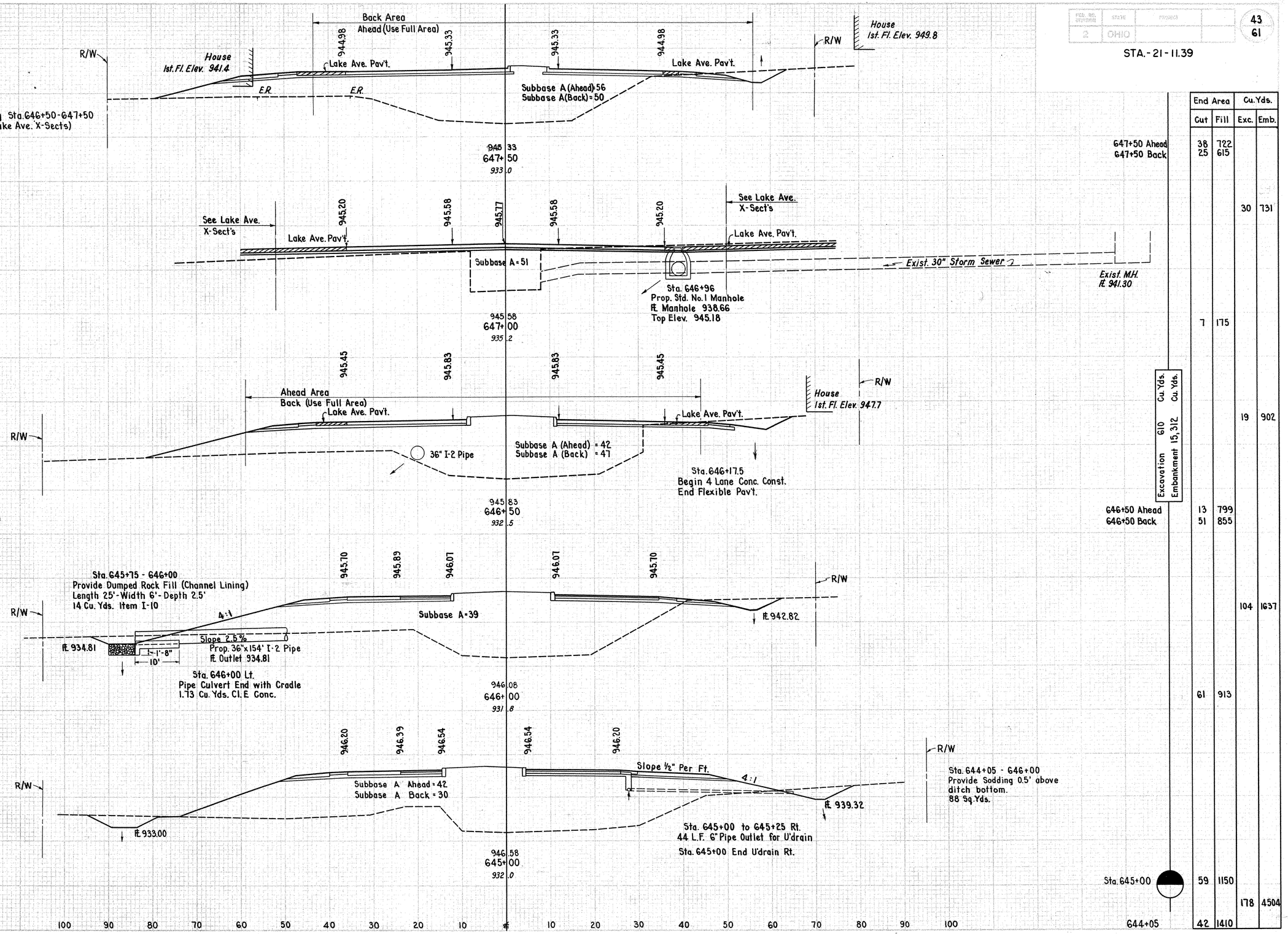
CROSS SECTIONS STA. 642+12.08 TO STA. 644+05

FED. ROAD DIVISION	STATE	PROJECT		43
2	OHIO			61

STA. - 21 - 11.39

Seeding End Width	Seeding Sq. Yd.		End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
74		Sta. 647+50 Start Seeding	647+50 Ahead	38	722		
			647+50 Back	25	615		
						30	731
				7	175		
						19	902
89	458	Sta. 646+50 Stop Seeding (See Lake Ave)	646+50 Ahead	13	799		
			646+50 Back	51	855		
						104	1637
119				61	913		
144	1562	Sta. 645+00		59	1150		
						178	4504
152		644+05		42	1410		

Excavation 610 Cu. Yds.
Embankment 15,312 Cu. Yds.

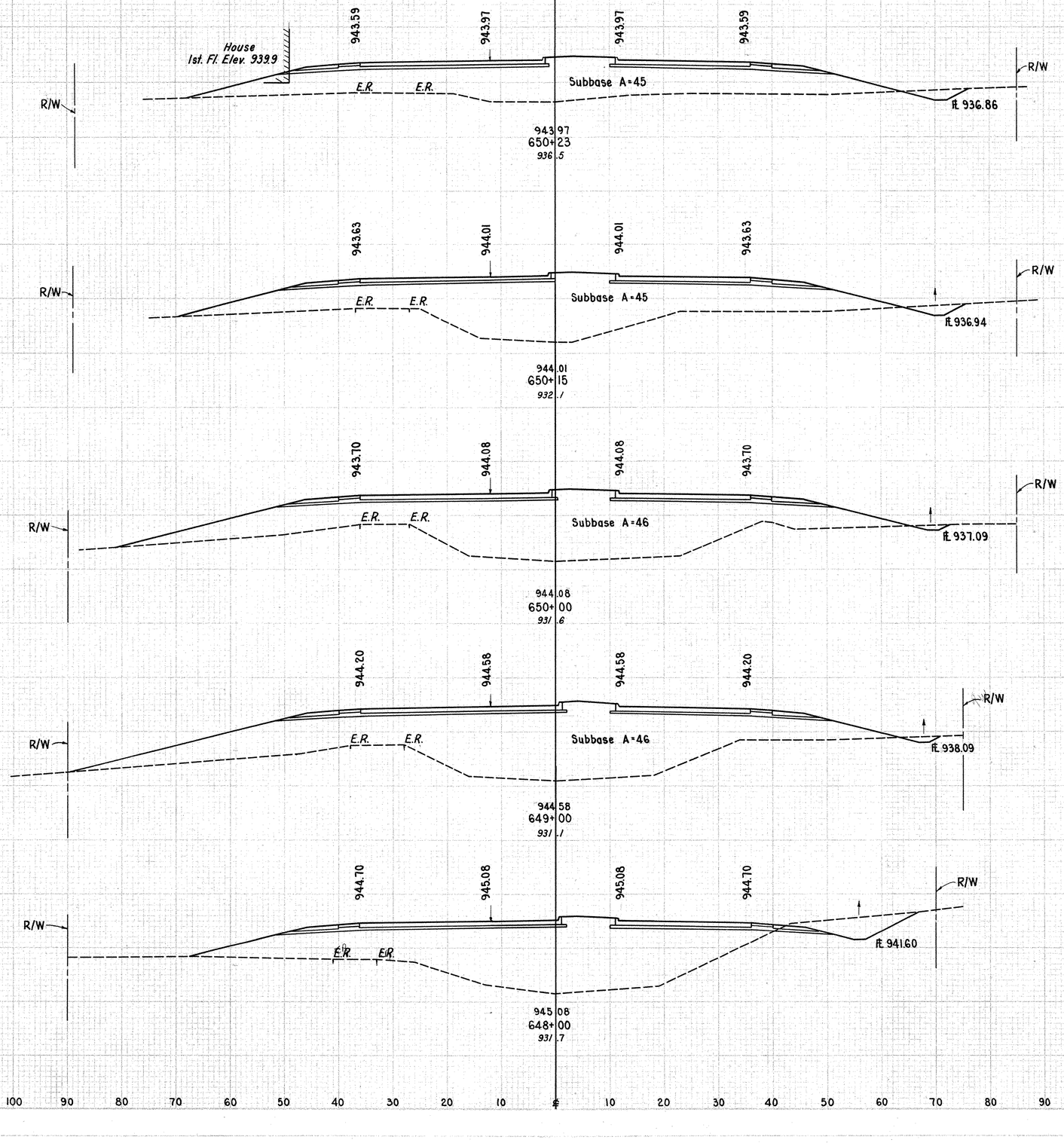


CROSS SECTIONS STA. 645+00 TO STA. 647+50

FED. ROAD DIVISION	STATE	PROJECT		44 61
2	OHIO			

STA.-21-11.39

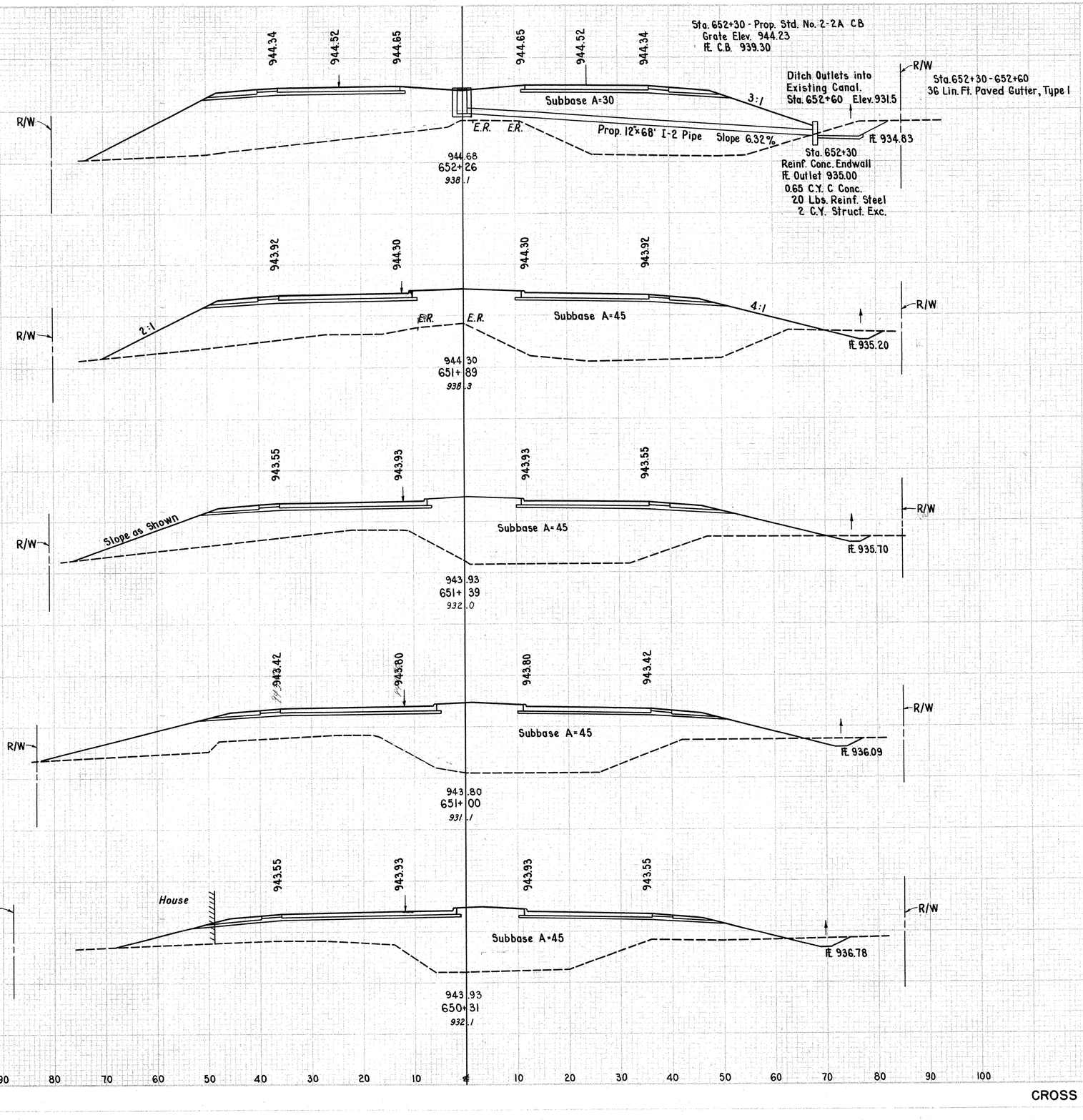
Seeding		End Area		Cu. Yds.	
End Width	Sq. Yd.	Cut	Fill	Exc.	Emb.
97		11	580		
	87			3	196
99		12	745		
	173			5	453
108		5	887		
	1139			17	3504
97		4	1005		
	978			124	3320
79		63	788		
	425			94	1398
74		38	722		



CROSS SECTIONS STA. 648+00 TO STA. 650+23

PROJ. NO. DIVISION	STATE	PROJECT		45
2	OHIO			61

STA.- 21 - 11.39



Seeding	
End Width	Sq. Yd.
115	
	463
110	
	606
108	
	466
107	
	790
99	
	87
97	

Seeding 5065 Sq. Yds.

Excavation 101 Cu. Yds.
Embankment 19,005 Cu. Yds.

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
21	1203		
		21	1542
10	1048		
		15	1835
6	934		
		11	1343
9	926		
		28	2122
13	735		
		4	195
11	580		

CROSS SECTIONS STA. 650+31 TO STA. 652+26

FED. AID PROJECTS	STATE	PROJECT		46
2	OHIO			61

STA. - 21 - 11.39

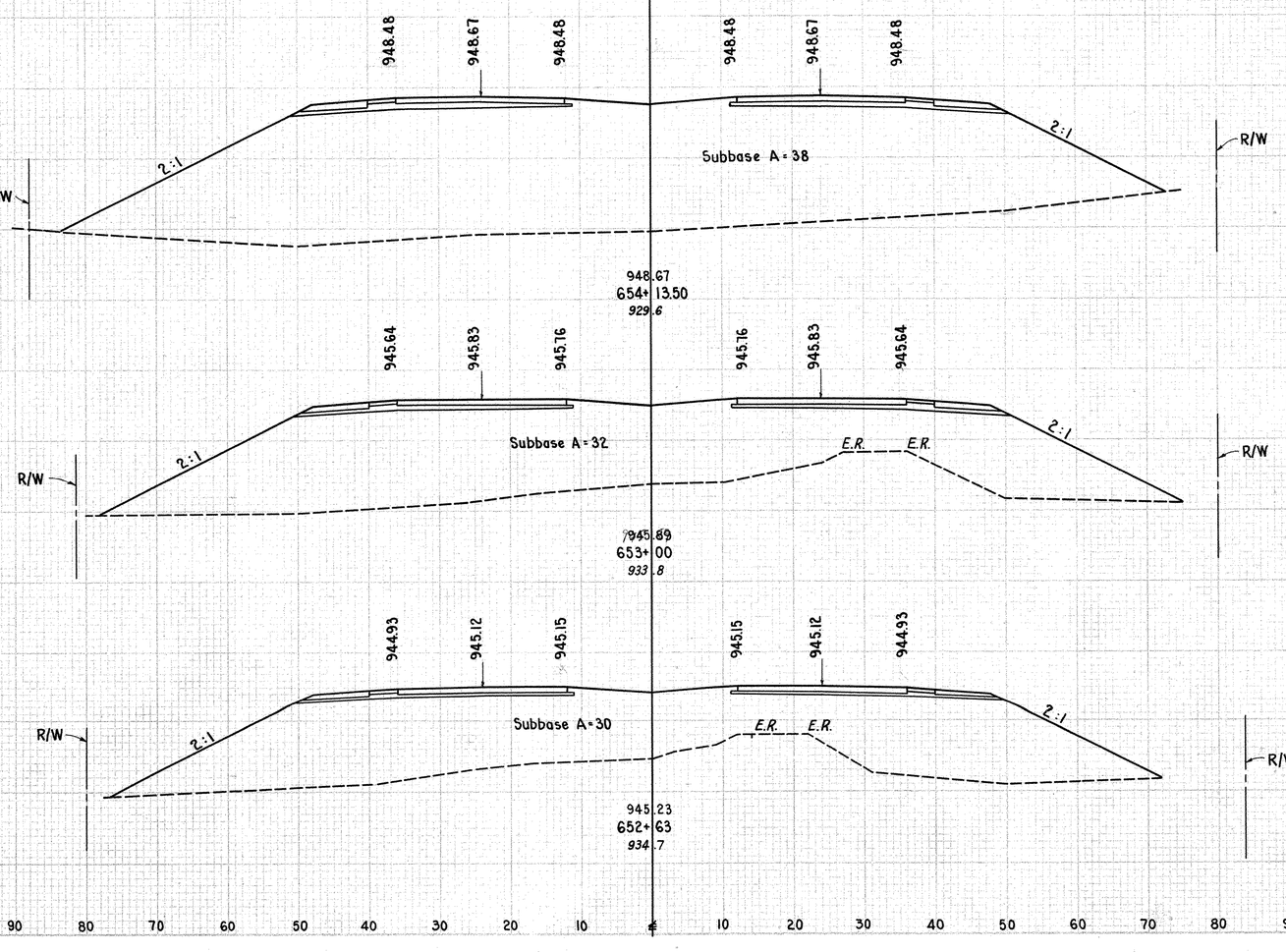
Seeding	
End Width	Sq. Yd.
119	
	1463
113	
	463
112	
	467
115	

Sta. 654+13.5
End Seeding

652+26

END PROJECT
STA. 654+13.50

In the event that this project is constructed prior to the adjacent project the contractor shall place embankment to Sta. 654+20 and slope 1½:1
END WORK STA. 654+50



Sta. 654+13.5
End Earthwork

652+26

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.
0	2223		
		0	7714
0	1447		
		0	1886
0	1306		
		14	1719
21	1203		

100 90 80 70 60 50 40 30 20 10 ℄ 10 20 30 40 50 60 70 80 90 100

CROSS SECTIONS STA. 652+63 TO STA. 654+13.50

Seeding	
End Width	Sq. Yd.

FED. AID. DIVISION	STATE	PROJECT	
2	OHIO		

47
61

STA.- 21 - 11.39

End Area		Cu. Yds.	
Cut	Fill	Exc.	Emb.

W.W.

Edge Bridge

6+22
945.68

W.W.

5+97
944.48

5+50
942.29

5+00
939.88

See Mainline X-Sects

House
1st. Fl. Elev. 936.6

Note: Earthwork, pavement, etc. included in Mainline Computations

4+50
937.09

House
1st. Fl. Elev. 937.7

4+00
935.19

House
1st. Fl. Elev. 936.7

3+50
933.34

Sta. 600+75.39 Rte. 21 =
Sta. 4+95.54 Cherry Rd.

3+00
932.64

60 50 40 30 20 10 ℄ 10 20 30 40 50 60

CROSS SECTIONS - CHERRY RD. N.W. STA. 3+00 TO STA. 6+22

FED. RD. DIVISION	STATE	PROJECT		48
2	OHIO			61

STA.-21-11.39

Sta. 646+98.14 ℄ =
Sta. 5+00 Lake Ave.

Top of Pav't. Mainline

E.R. E.R.

945.78
5+00
944.38

Stop Seeding
Sta. 4+63

See Mainline
For Seeding

E.R. E.R.

Wall

945.21
4+62.92
945.37

Sta. 4+50
End Earthwork
Area as Shown

Sta. 4+50
Stop Subbase Computation

945.01

See Mainline
Cross Sections

See Mainline
Cross-Sections

E.R. E.R.

945.16
4+50
945.77

Subbase A=40

See Mainline Seeding

945.63 945.12

S/E

E.R. E.R.

945.93
4+25
946.6

Subbase A=22

R/W

947.15 947.17

S/E

947.34
4+00
947.53

Subbase A=16

R/W

947.99 947.99

S/E

E.R. E.R.

948.15
3+83.63
948.08

Subbase A=16

Begin Seeding Sta. 3+70
Use width at 3+83.63

BEGIN WORK
STA. 3+70

Begin Subbase Sta. 3+70
A=16

Begin Earthwork
Sta. 3+70
Use Area at 3+83.63

Seeding End Width	Seeding Sq. Yd.
0	
	17
23	
	83
37	
	101
36	
	64
34	
	51
34	

Seeding 1114 Sq.Yds.

Excavation Cu. Yds.	Embankment Cu. Yds.
389	678

End Area Cut	End Area Fill	Cu. Yds. Exc.	Cu. Yds. Emb.
160	0		
		122	0
103	0		
		74	0
57	0		
		32	0
48	0		
		24	0
48	0		

60 50 40 30 20 10 ℄ 10 20 30 40 50 60

CROSS SECTIONS - LAKE AVE. STA. 3+70 TO STA. 5+00

FED. ROAD DIVISION	STATE	PROJECT	
2	OHIO		

49
61

STA.- 21 - 11.39

END WORK
STA. 7+32.95

Sta. 7+32.95
End Earthwork
Area as Shown

Seeding		End Area		Cu. Yds.	
End Width	Sq. Yd.	Cut	Fill	Exc.	Emb.
33		70	0		
	121			78	0
33		58	0		
	231			54	124
50		0	134		
	261			0	209
44		0	92		
	172	Drive Lt.		5	10
18		0	270	0	335
0	13				

S/E
Subbase A=25
936.61
7+32.95
936.61
Sta. 7+32.95
S/E
S/E
Subbase A=25
937.28
7+00
937.00
S/E
939.64
939.64
Subbase A=20
939.81
6+50
938.16
S/E
942.46
942.44
See Mainline Seeding
S/E
Subbase A=28
Drive Lt. Sta. 6+00
5 Cu. Yds. Excavation
10 Cu. Yds. Embankment
942.63
6+00
939.72
See Mainline
X-Sections
944.86
See Mainline
X-Sections
E.R.
E.R.
Subbase A=50
Sta. 5+50
Begin Earthwork
Area as Shown
Sta. 5+50
Begin Subbase Computation
944.90
5+50
942.23
Sta. 5+37
Start Seeding
Top of Pav't. Mainline
E.R.
E.R.
945.44
5+20.87
943.60
60 50 40 30 20 10 ℄ 10 20 30 40 50 60

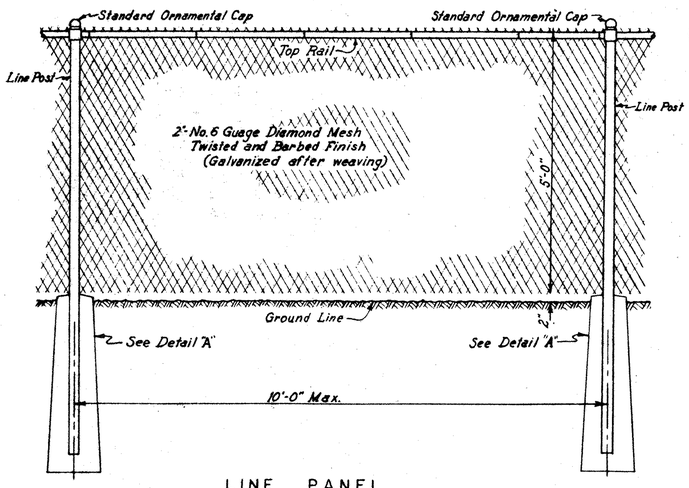
CROSS SECTIONS - LAKE AVE. STA. 5+20.87 TO STA. 7+32.95

FED. ROAD DIV. NO	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

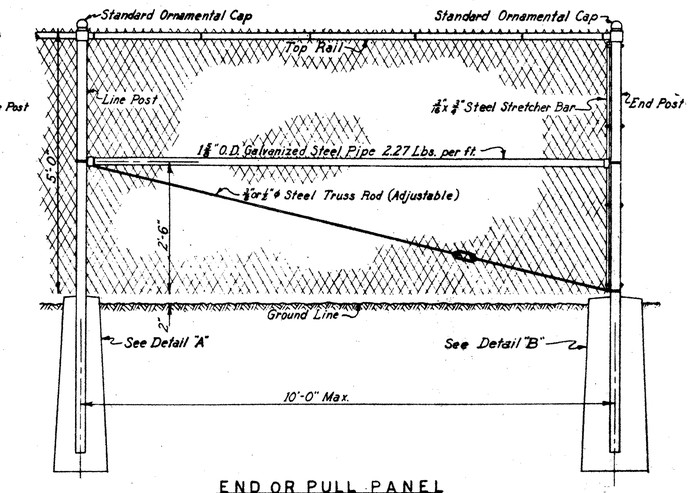
50
61

STA-21-11.39

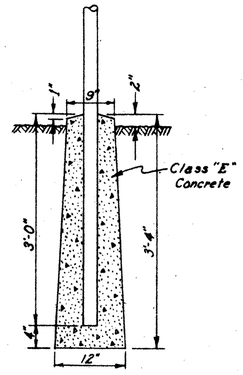
FENCE DETAILS



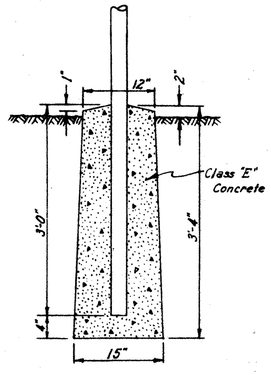
LINE PANEL
SCALE: 3/4"=1'-0"



END OR PULL PANEL
SCALE: 3/4"=1'-0"



DETAIL "A"
SCALE: 1"=1'-0"



DETAIL "B"
SCALE: 1"=1'-0"

Notes:

1. For dimensions and weights of posts and rails, See Supplemental Specification No. 18.
2. For additional information regarding stretcher bars, truss rods, etc., See Supplemental Specification No. 18.
3. The fence shall not be erected until after five (5) day from the time of setting the posts in concrete if cement meeting the requirements of Sec. M-11 is used or until after three(3) days if cement meeting the requirements of Sec. M-12 is used.
4. A pull panel shall be placed on each side of all corner or angle posts where the change in alignment of the fence exceeds five (5) degrees.
5. The footing for all angle or corner posts where the change in alignment of the fence exceeds five degrees shall be constructed as shown in Detail "B".

798

21-STA-11.39

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

50A 61 R/W 1 12

STA.-21-11.39

LOCATION PLAT
STA.-21-11.39
STARK COUNTY
CITY OF MASSILLON

SCALE : 1" = 200'

LIMITED ACCESS HIGHWAY

I HEREBY CERTIFY THIS PLAT TO BE CORRECT

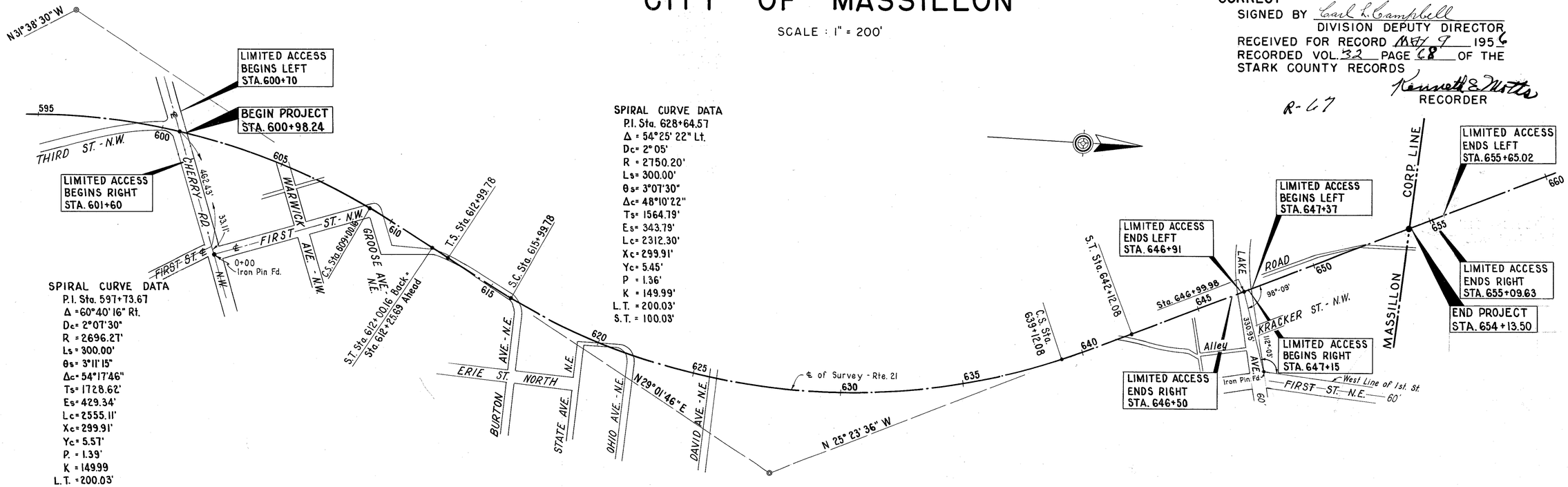
SIGNED BY Carl L. Campbell
DIVISION DEPUTY DIRECTOR

RECEIVED FOR RECORD MAY 9 1956

RECORDED VOL. 32 PAGE 68 OF THE STARK COUNTY RECORDS

Kenneth E. Motts
RECORDER

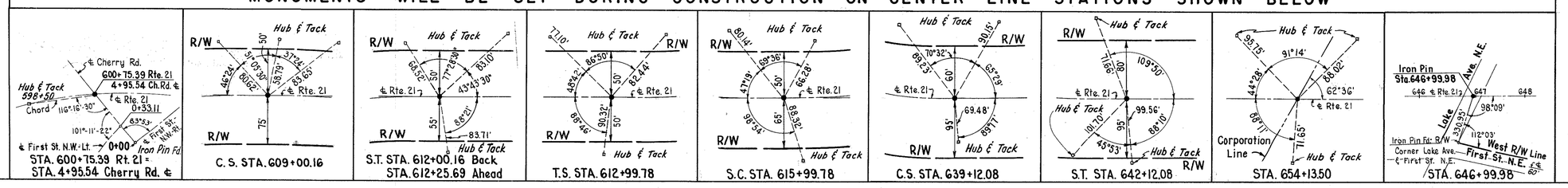
R-67



SPIRAL CURVE DATA
P.I. Sta. 597+73.67
Δ = 60°40' 16" Rt.
Dc = 2°07' 30"
R = 2696.27'
Ls = 300.00'
θs = 3°11' 15"
Δc = 54°17' 46"
Ts = 1728.62'
Es = 429.34'
Lc = 2555.11'
Xc = 299.91'
Yc = 5.57'
P. = 1.39'
K = 149.99
L.T. = 200.03'
S. T. = 100.03'

SPIRAL CURVE DATA
P.I. Sta. 628+64.57
Δ = 54°25' 22" Lt.
Dc = 2°05'
R = 2750.20'
Ls = 300.00'
θs = 3°07' 30"
Δc = 48°10' 22"
Ts = 1564.79'
Es = 343.79'
Lc = 2312.30'
Xc = 299.91'
Yc = 5.45'
P = 1.36'
K = 149.99'
L.T. = 200.03'
S.T. = 100.03'

MONUMENTS WILL BE SET DURING CONSTRUCTION ON CENTER LINE STATIONS SHOWN BELOW



FED. RD DIVISION	STATE	PROJECT	
	OHIO		

51
61

STA.-21-11.39

R/W
2.
12

LIMITED ACCESS
BEGINS LEFT
STA. 600+70.00

U. S. GOVT. PROPERTY
3 LA

N.29° 01' 46" E

30" Conc. Wingwall

600+70
65.5'

601+00
50'

Top of Dike

(Arc Radius 2746.27')

R/W

Limit of Construction

21" Toe Drain

21", 18"

24" Storm Sewer

C.B.

12" Water Line

Conc. Walk

6" Conc. Curb

Street Market

24" Pipe Toe Drain

M.H.

#3600
WILLIE S. & SUSIE GILLINS

3 LA
LOT #3609
1.006 Ac.

602+39
47.5

602+74
40'

602+31
47.5

601+01
Earth Drive

602+15

602+45
11.5

602+82
11.5

4 LA
0.256 Ac.

604+44.6
85'

50'

604+51.0

603
604
6" Sanitary Sewer
M.H. 605

BEGIN SHEET - STA. 600+00

END SHEET - STA. 605+00

600+75.30
4+95.4

U.S. 21
Cherry Rd.

600

601

1 LA
0.089 Ac.

602

Shed

602+15

2 LA
LOT #3599
ALBERT MURDOCK
0.151 Ac.

12"S't'y. Fr. House

2 St'y. Frame House

18" Catalpa

24" Catalpa

Hedge

4' Conc. Walk

12" Pipe

6" Sanitary Sewer

6" Conc. Curb

W.V.

F.H.

8" Water Line

CHERRY ROAD N.W.

601+36
47.5

601+58
86.5'

16" Buckeye

Hedge

Fr. Shed

602+87
40'

603+46
40'

6" V.C. Pipe Drain

Asphalt Basketball Court

WARWICK AVE.

Conc. Walk

Macadam Court

School

Guy Pole

LIMITED ACCESS
BEGINS RIGHT
STA. 601+58.00

8" Conc. Walk

LOT # 3598
BOARD OF EDUCATION
MASSILLON CITY SCHOOL DISTRICT
4 LA

WARWICK & BALDWINS ADDITION
PLAT BOOK 3 PAGE 184

As Shown on Record Plat

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60° 40' 16" Rt.
Dc - 2° 07' 30"
R - 2696.27'
Ls - 300'
θs - 3° 11' 15"
Ts - 1728.62'
Es - 429.34'
Lc. - 2555.11'
Xc - 299.91'
Yc - 5.57'
P - 1.39'
L.T. - 200.03'
S.T. - 100.03'
T.S. - 580+45.05
S.C. - 583+45.05
Δc - 54° 17' 46"

CITY OF MASSILLON
STARK COUNTY
PERRY TOWNSHIP
FR. SEC. 7 T-10-N R-9-W

Scale : 1" = 20'

STA. 600+00 TO STA. 605+00 - RIGHT OF WAY

FED. RD DIVISION	STATE	PROJECT	
	OHIO		

52
61

R/W
3
12

STA.- 21 - 11.39

U. S. GOVT. PROPERTY
3 LA

Top of Dike

R/W

18" Toe Drain

Limit of Construction

(Arc Radius 2746.27')

24" Storm Sewer

4" H.P. Gas Line

12" Water Line

15" Toe Drain

BEGIN SHEET - STA. 606+00

END SHEET - STA. 610+00

U.S.A.

#3587 TONY PALONE 0.046 Ac. 2 St'y Frame House

#3588 JILES R. & DAISY A. EDWARDS 0.090 Ac. 2 St'y Fr. House

#3577 BLANE & CECILIA JOHNSON 0.066 Ac. 2½ St'y Fr. House

CLARA ALEXANDER 0.798 Ac.

#3578 MARY DOWN 0.065 Ac. 2½ St'y Fr. House

#3566 M.H. JACOBS 0.160 Ac.

#3589 SALVATORE BLOGNA 0.139 Ac. 2 St'y Fr. House

0.090 Ac.

0.021 Ac.

0.054 Ac. 2½ St'y Fr. House

#3590 GEORGE W. & MARY S. LEMON 2 St'y Brick Shingle House

#3591 VINNIE LEAVELL 2 St'y Brick Shingle House

HERBERT & BERTHA FLOWERS 2½ St'y Fr. House

#3565 WILLIE TOM & WILLIE JEAN BODIFORD 0.056 Ac. 2½ St'y Fr. House

#3564 TIMOTHY & LYDIA SMITH 0.014 Ac. 2½ St'y Fr. House

#3563 HELEN M. MERCER 2½ St'y Fr. House

0.256 Ac.

MASSILLON CITY SCHOOL DISTRICT

WARWICK AVENUE N.W. (Gravel)

FIRST STREET (Gravel)

GROOSE AVE. (Earth)

WILLIE TOM & WILLIE JEAN BODIFORD R/W

Conc. Blk. Garage

Frame Garage

Conc. Walk

Brick Court

Ft. Shed

Shed

Conc Drive

Conc Patio

Hedge

Wire Fence

Wood Fence

Stone

Brick

Rock Curb

8" Sanitary Sewer

15' Alley

Well (Abandoned)

Gas

O.H.P.L.

O.B.T. Co.

C.B.

G.V.

M.H.

W.V.

W.M.

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60°40'16" Rt.
Dc - 2°07'30"
R - 2696.27'
Ls - 300'
θs - 3°11'15"
Ts - 1728.62'
Es - 429.34'
Lc - 2555.11'
Xc - 299.91'
Yc - 5.57'
P - 1.39'
L.T. - 200.03'
S.T. - 100.03'
Δc - 54°17'46"

C.S. Sta. 609+00.16

Scale : 1" = 20'

STA 605+00 TO STA 610+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

53/61

STA.-21-11.39

4/12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ-54° 25' 22" Lt.
Dc-2° 05'
R-2750.20'
Ls-300.00'
θ-3° 07' 30"
Δc-48° 10' 22"
Ts-1564.79'
Es-343.79'
Lc-2312.30'
Xc-299.91'
Yc-5.45'
P-1.36'
K-149.99'
L.T. 200.03'
S.T. 100.03'

BEGIN SHEET-STA. 610+00

END SHEET-STA. 615+00

U.S. GOVT. PROPERTY

#9200 U.S.A.

#9201 U.S.A.

T.S.-Sta. 612+99.78

Top of Dike

R/W

15" Toe Drain

12" Toe Drain

Limit of Construction

24" Storm Sewer

1½ Story Frame House

10' Gravel Drive

#3567

#3568

#3566

#3565

#3554

#3553

#3569 ROY E. SLATER

#3570 ANTHONY J. DIANA

#3571

#3572

#9202

#9203 F. & MARY D. KELLER

#9204 MIKE KURLINSKI

JESSE BIRDSONG

M.H. JACOBS

ANN S. FURIATE

M.H. JACOBS

0.160 Ac.

0.119 Ac.

0.078 Ac.

1.006 Ac.

0.054 Ac.

1.006 Ac.

0.088 Ac.

0.035 Ac.

0.001 Ac.

0.285 Ac.

18" Maple

18" Maple

24" Apple

30" Maple

Twin 36" Willow

36" Maple

8" Twin Walnut (Dead)

8" Willow (Dead)

Earth Road

18" San. Sewer

M.H.

Pole

C.B.

18" San. Sewer

M.H.

1½ Story Fr. House

Conc. Walk

Conc.

12" Apple

GROOSE AVE.

50'

Const. S.T. Sta. 612+00.16 Back
= Survey S.T. Sta. 612+25.69 Ahead

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60° 40' 16" Rt.
Dc- 2° 07' 30"
R - 2696.27'
Ls- 300.00'
θ - 3° 11' 15"
Ts- 1728.62'
Es- 429.34'
Lc- 2555.11'
Xc- 299.91'
Yc- 5.57'
P - 1.39'
L.T.- 200.03'
S.T.- 100.03'
Δc- 54° 17' 46"

STA. 610+00 TO STA. 615+00-RIGHT OF WAY

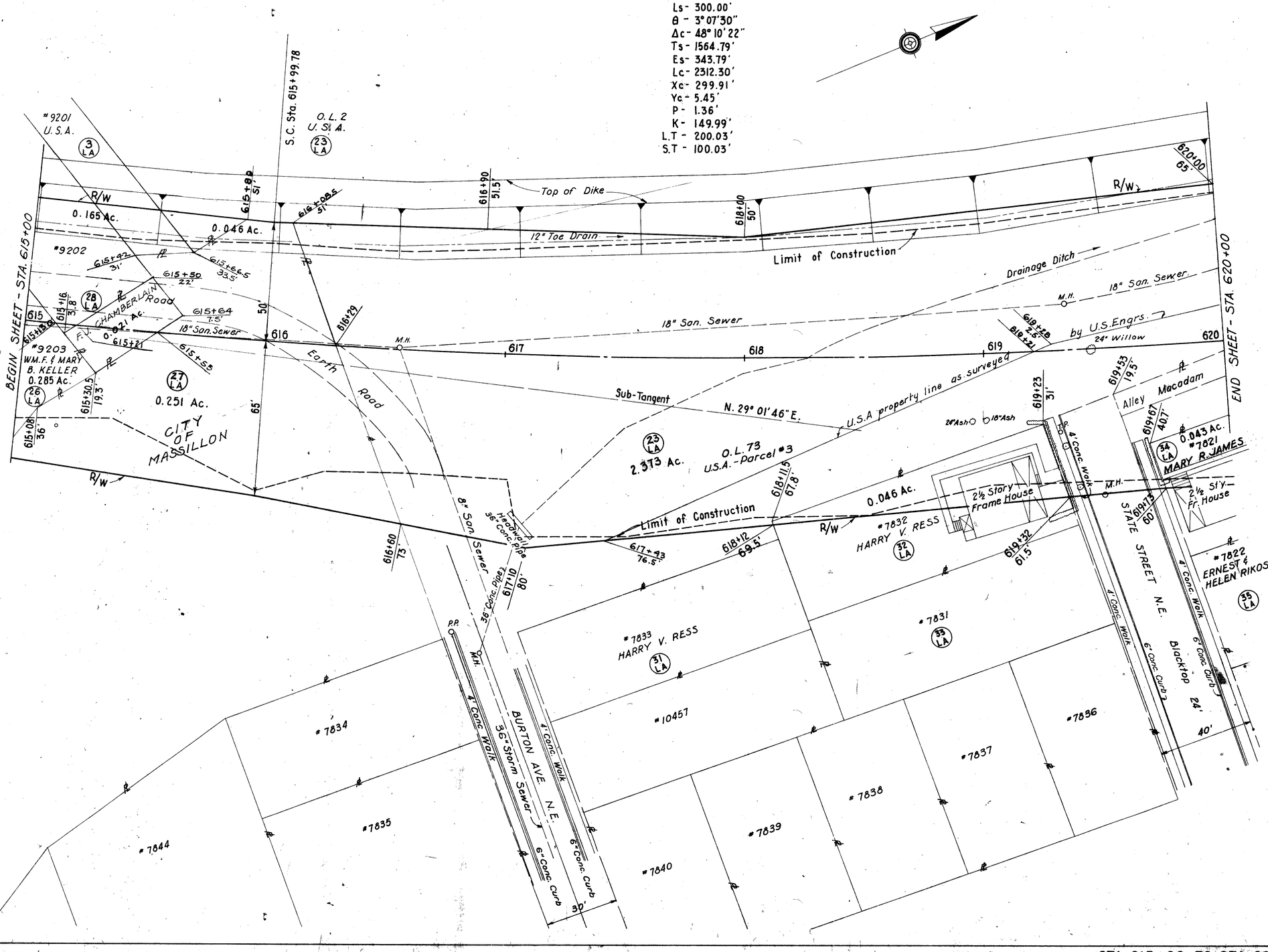
FED. RD DIVISION	STATE	PROJECT	
	OHIO		

54
61

STA.-21-11.39

R/W
5
12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00'
θ - 3° 07' 30"
Δc - 48° 10' 22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T - 200.03'
S.T - 100.03'



STA. 615+00 TO STA. 620+00 – RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT
	OHIO	

55
61

STA.-21-11.39

R/W

6
12

BEGIN SHEET - STA 620+00

END SHEET - STA. 625+00

Top of Dike

12" Toe Drain

M.H.

18" Toe Drain

623+00

625+00

76.5

R/W

Drainage Ditch (Arc Radius 2685.20')

18" Sanitary Sewer

O.L. 73
U.S.A.-Parcel #3
23 LA
2.373 Ac.

621+66 Limit of Construction

24" Twin Ash

24" Twin Ash

Dead Stump

622+80.5
41.3'

12" Ash

12" Maple

16" Hickory

16" Ash

14" Elm

U.S.A. as surveyed property line by U.S. Engrs.

16" Sycamore

14" Apple

16" Ash

12" Poplar

24" Poplar

18" Apple

24" Sycamore

10" Apple

10" Apple

10" Maple

620+13.5
620+21.8
4' 620+21.8 U.S.A. as surveyed property line by U.S. Engrs.
3'

620+82

621+29
7.6'
621+31

621+69
13.8'
624+72.8

622+13.7
25.4'
622+82.4
32.8'
622+88.2
622+78

623+33.8
29'

623+85.2
24.6'

624+36.5
19'

624+81.8
12'

Alley

Earth Drive

1 Sty. Fr. House

#4988
HELEN LOUISE SCHRADER

Conc. Blk. Garage

Metal

15" Sycamore

620

621

622

623

624

625

60'

Frame Garage

620+35
8.3'

36 LA
0.135 Ac.

Earth Parking Area

2 Sty. Fr. Apartment House

30" Elm

#7821
MARY R. JAMES

620+80
23.4'

34 LA
0.043 Ac.

28" Elm

#4989
GEO. L. & MARTHA E. NULL

39 LA
0.100 Ac.

621+73
31'

622+80
12'

ROBERT & IMOGENE ROBART

39 LA
0.108 Ac.
#4987

12" Cherry

4" Spruce

2 Sty. Fr. House

41 LA
0.807 Ac.

48" Oak

#5151

10" Apple

3" Twin Apple

#5152

12" Oak

#5153

#5154

F. SCHWORM

MELVILLE

6" Apple

Limit of Construction

Shrub

5" Crab Apple

Maple

R/W

36" Stump

12' Alley

20" Apple

12" Maple

10" Apple

624+47.3
81'

624+95
76'

623+48
64.2'

623+97
72'

622+97
51.5'

622+87
56'

Conc. Blk. Garage

Fr. Gar.

Earth Drive

40 LA

#4986
HUBERT KRUMLAUGH

1 Sty. Fr House

Hedge

N 29°01'46"E

Sub-Tangent

#4985

#4984

#5155

12" Maple

6" Maple

10" Maple
O.P.S. Co.

33' Conc. Walk

6" Conc. Curb

DAVID AVE.

3.5' Conc. Walk

6" Conc. Curb

620+38
60'

620+48
60'

620+97
60'

621+46
60'

621+84
60'

621+87.5
76'

R/W

Alley

OHIO AVE. N.E.

4' Conc. Walk

6" Conc. Curb

6" Water Line

Fr. H5a

2½ St'y.

(Arc Radius 2810.20)

35 LA
#7822
ERNEST & HELEN RIKOSKY

37 LA
#4990

#4991
MERICK LAND CO.

#9205

#4992

2 Sty. Shingle Apt.

2' Conc. Walk

3' Gutter

6" Conc. Curb

4' Conc. Walk

40'

M.H. (Covered)

SPIRAL CURVE DATA
P.I. Sta. 628+64.57
Δ = 54°25'22" Lt.
Dc = 2°05'
R = 2750.20'
Ls = 300.00'
θs = 3°07'30"
Δc = 48°10'22"
Ts = 1564.79'
Es = 343.79'
Lc = 2312.30'
Xc = 299.91'
Yc = 5.45'
P = 1.36
K = 149.99'
L.T. = 200.03'
S.T. = 100.03'

STA. 620+00 TO STA. 625+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

56/61

STA.-21-11.39

R/W 7/12

BEGIN SHEET - STA. 625+00

END SHEET - STA. 630+00

Top of Dike

625+00 16.5

626+00 90'

R/W

18" Toe Drain Ditch

Limit of Construction

Drainage Ditch

629+35 81'

R/W

630+00 75'

(23 LA) 2.373 Ac.

O.L. 73
U.S.A. Parcel #5

Guy Wires

Guy Wires

Drainage Ditch

Elev. Bottom Wire - 975.1

20" Ash

629+23 33.5

629+28 7'

629+30.6

625+38

625

626 M.H.

627

628

629

630

12" Hickory

24" Dead Stump

12" Stone Wall

16" Elm

8" Conc. Wall

4' Conc. Walk

18" Sanitary Sewer

(41 LA) 0.807 Ac.

14" Elm

12" Elm 626+51 31'

14" Apple

24" Oak

2½ Story Frame House

#5150 MELVILLE F. SCHWORM

2 Sty. Frame Barn

8" V.C.P.

15" Stump

5" Tree

36" Oak

Limit of Construction

O.P.S. Co.

M.H.

627+98 76

628+12.5 79

628+47 89'

628+62 94'

(44 LA) 0.346 Ac.

R/W

6" Conc. Curb

6" Conc. Curb

12' Cinder Alley

Brick

626+53 79'

0.014 Ac.

627+98 92'

628+13 94'

628+30 95'

0.001 Ac.

629+50 90'

R/W

4" Apple

5" Apple

#5149

8' Cinder Drive

3.5 Conc. Walk

(41 LA)

O.L. 68
MELVILLE F. SCHWORM

12" San. Sewer

628+49 94.5

(42 LA)

#9719 O.L. 69
ZELLA MAY FRICK

(43 LA)

O.L. 69
MERICK LAND CO.

(45 LA) 1.013 Ac.

629+17.5

O.L. 74
U.S.A. Parcel No. 313
J. & J. EAGLOWSKI

629+37 28

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00
θ - 3° 07' 30"
Δc - 48° 10' 22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'

N. 29° 01' 46" E.

STA. 625+00 TO STA. 630+00 - RIGHT OF WAY

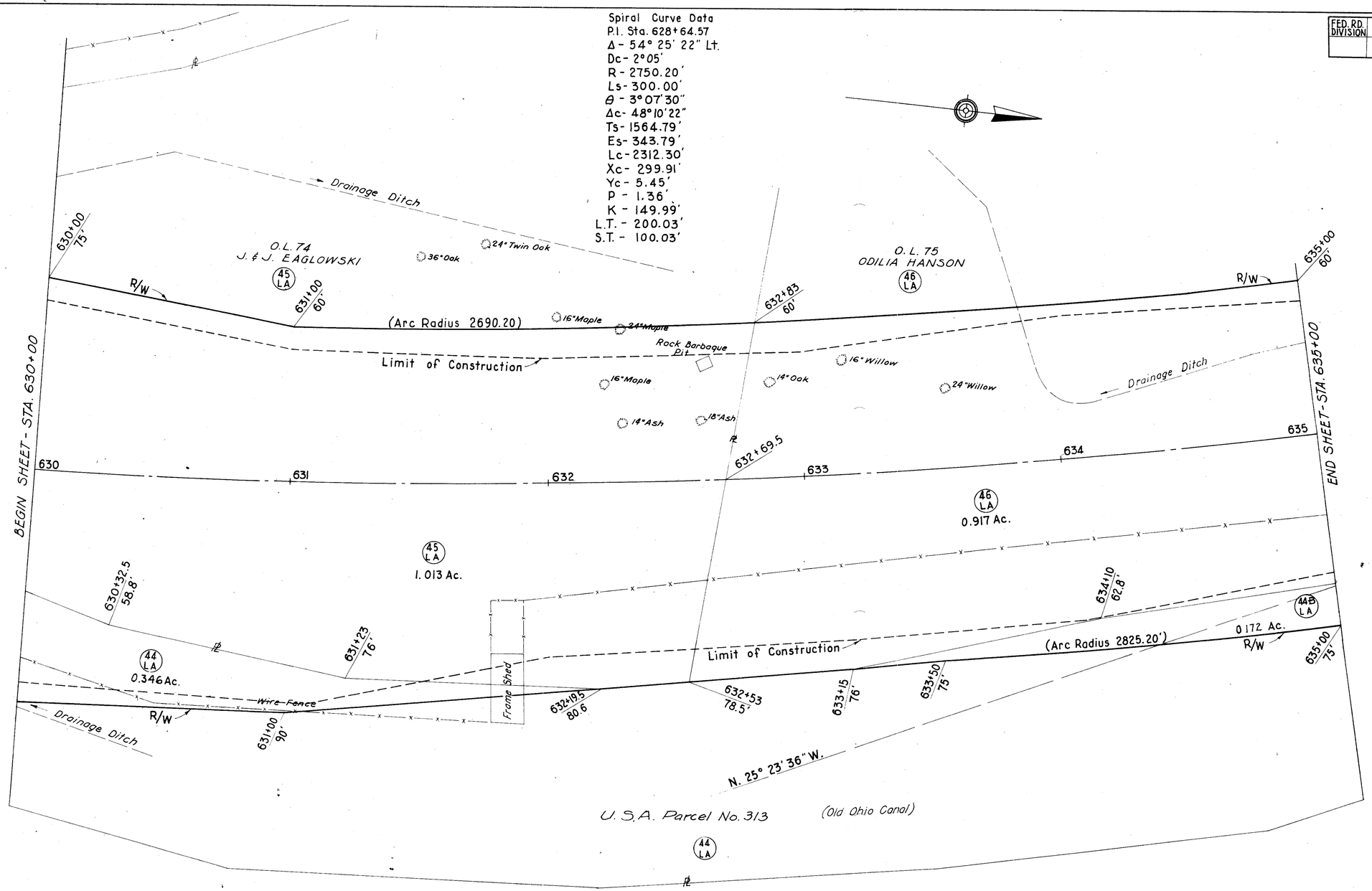
FED. RD. DIVISION	STATE	PROJECT	

57
61

STA. - 21 - 11.39

R/W
8
12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2°05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'



STA. 630+00 TO STA. 635+00 RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

58
61

STA.- 21-11.39

R/W
9
12

Spiral Curve Data.
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2°05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'

O L 75
ODILIA HANSEN

46 LA

BERNARD & ALEEN HARWIG

47 LA

635+00
60'

R/W

℄ 636+08
60'

R/W (Arc. Radius 2690.20')

C.S. Sta. 639+12.08
639+12.08
60'

R/W

Well

Limit of Construction

Well
Stone
Conc.
2½-Sty-Fr. House
2' Conc. Walk
Shrubs

60'

639+12.08

639+28.5

12" Catalpa

℄ 640

Sub-Tangent

14" Willow

END SHEET - STA. 640+00

BEGIN SHEET - STA. 635+00

46 LA
0.917 Ac.

635

636

637

638

639

24" Willow Stump

636+87.5

24" Willow Stump

637+98
14"

20" Wild Cherry

14" Willow

638+97
3.8

MUSKINGUM WATERSHED
CONSERVANCY DISTRICT

95'

N 25° 23' 36" W

Sub-Tangent

℄

636+86.5
32.5

637+01
31.2

24" Willow

635+72
48.5

635+09
58

44A LA
0.906 Ac.

53 LA

8" Elm

448 LA
0.172 Ac.

Old Canal

Limit of Construction

Fr. Shed

Frame Garage

639+38
78

639+93
78'

15" Apple

51 LA

(Arc Radius 2825.20)

635+00
51

R/W

638+50
75'

638+75.3
83'

638+91
82'

0.014 Ac.

0.022 Ac.

R/W

639+93
95'

Fr. Gar.

636+93.5
75

638+91
81.5

10" Apple

12" Apple

0.001 Ac.

639+12.08
95'

639+36
94'

24" Apple

U. S. A. Parcel No. 313.

#9697
REEVE E. &
DORIS L McDOWELL

#9696
KARL A. &
LAVELLE E. PAULIK

15" Elm

#9695
CHESTER B. HAZEL

Fr. Gar.

8" Cherry

1½ Sty Frame House

1½ Sty Shingle House

1½ Sty Shingle House

0.018 Ac.

10" Cherry

49 LA

50 LA

51 LA

52 LA

STA. 635+00 TO STA. 640+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

59
61

STA.-21-11.39

R/W
10
12

BEGIN SHEET - STA. 640+00

END SHEET - STA. 645+00

2 Story Barn

BERNARD & ALEEN HARWIG

641+21
75.7'

S.T. Sta. 642+12.08

R/W

O.L. 76
U.S.A.

55 LA

643+25
105'

644+16
105'

645+00
105'

643+00
90'

O.L. 162
VIRGINIA M. SELOGY

Limit of Construction

Top of Dike

80'

47 LA
0.933 Ac.

56 LA
0.439 Ac.

30" Willow

643+80
30'

644+26.5
34'

Drainage Ditch

2-30" Willows

30" Willow

641+70
17.3'

641+84

640+93.5
15'

Gravel Road

640
Pole

641

642

643

644

644+54.5

645

644+68.8
17'

N 25°23'36"W

24" Willow

36" Willow

30" Twin Willow

Old Canal

643+65
21.8'

44-A LA
0.906 Ac.

O.L. 76
U.S.A.

55 LA
0.951 Ac.

57 LA
0.534 Ac.

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

95'

24" Willow

24" Willow

24" Willow

24" Oak

24" Oak

24" Oak

641+44
69.5'

642+38.6
66.5'

644+08
73'

58 LA 0.055 Ac.

Limit of Construction

#2697
L.C. REYNOLDS

640+42
73'

Gar.

53 LA
0.118 Ac.

641+36
94'

642+62
95'

644+26.5
95'

641+93.5
95'

645+00
95'

R/W

10" Pine

52 LA
0.018 Ac.

640+37
93'

10" Apple

#10149
ALBERT SLICKER

#10148
VINCENT G. & IRENE B. NEVEL

#10147
ALICE MOLINSKI

#10151
EARL D. & FLORENCE KAISER

54 LA

59 LA

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22
Ts - 1564.79
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
LT. - 200.03'
ST. - 100.03'
Es - 343.79'

approximate edge old basin and property line as shown on county tax map sheets

2 Sty Fr. House

1½ Sty Fr. House

#10150
HAZEL BAIR

ledge

Alley

Alley

STA. 640+00 TO STA. 645+00 — RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

60 / 61

STA.- 21 - 11.39

R/W 11 / 12

END WORK STA. 7+32.95

Curve Data - Lake Ave.
P.I. Sta. 6+30.12
Δ - 33° 56' 00" Rt.
D - 16° 00'
T - 109.25'
L - 212.08'
R - 358.10 (Arc)
P.C. Sta. 5+20.87
P.T. Sta. 7+32.95

NOTE:
Parcel 62-A City Of Massillon
Formerly Owned By Mike & Anna Drobney

LIMITED ACCESS ENDS LEFT STA. 646+91

LIMITED ACCESS BEGINS LEFT STA. 647+37

LIMITED ACCESS ENDS RIGHT STA. 646+50

LIMITED ACCESS BEGINS RIGHT STA. 647+15

BEGIN WORK STA. 3+70

Sta. 646+98.14 M.L. = Sta. 5+00 - Lake Ave.

BEGIN SHEET - STA. 645+00

END SHEET - STA. 650+00

Added Pc. 62-A 9-9-60

STA. 645+00 TO STA. 650+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	110		

61 / 61

STA. -21-11.39

R/W 12 / 12

BEGIN SHEET - STA. 650+00

END SHEET - STA. 655+00

650+00 90'

650+05 89.7

650+04 41.5

650+91.5 36.'

651+50 80'

651+93 18.'

652+37 3.6'

652+49

652+68 80'

653+60' 84.9

654+59.15 90'

654+78.29 125'

655+65.02 125'

650+41.5 29.5'

650+49.6 48.6'

650+33.2 45.5'

651+18 63'

651+87 77'

650+00 85'

650+12 85'

650+29.5 85'

651+07 85'

651+83 85'

652+10 85'

652+50 85'

653+00 80'

653+72.03 80'

654+21.10 75.11

654+47.24 89.84

653+48.71 125'

654+39.27 49.72

654+80.23 32.74

654+13.5

654+62.28

654+96.49

652+91 12.1'

653+85.08 54.82

655+09.63 125'

LIMITED ACCESS ENDS, LEFT STA. 655+02

LIMITED ACCESS ENDS RIGHT STA. 655+09.63

N 25° 23' 36" W

63° 36' 00"

L I M I T S

C O R P O R A T I O N

O.L. 163 MIKE & ANNA DROBNEY

RICHARD G. CLEMENS

MILDRED L. SELOGY

Limit of Construction

R/W

Earth Road

Old Canal

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

Shed

20" Willow

Roof

Frame House

Well

2-Sty. Fr.

1-3-Car

Fr. Shed

Chicken Coop

24" Oak

18" Ash

42" Willow

30" Poplar

Iron Pin

16" Ash

15" Catalpa

6" Cherry

3" Cherry

6" Plum

12" Maple

15' Alley

Brick

Brick Patio

Wood Steps

Conc. Walk

Conc.

Conc. Drive

Stone Steps

Conc. Patio

Iron Posts for Fence

10" Ash

6" Pine

5" Pine

15" Ash

Brick Walk

Fr. Gar.

Fr. Shed

Drainage Ditch

Brush & Small Trees

Exist. 30" RCP

67 LA 0.324 Ac.

66 LA 0.190 Ac. #2534 LORETTA STILWELL

69 LA 0.052 Ac.

70 LA 0.027 Ac.

63 LA 1.131 Ac.

74 LA 0.517 Ac.

73 LA 0.307 Ac.

71 LA 0.003 Ac.

72 LA

75 LA

OHIO CANAL 0.131 Ac.

MILDRED L. SELOGY 0.511 Ac.

#2557 JUNE E. HERSHEY

#2558 JOS. & LUERETIA R. KISH

#2559 CHAS. O. & GLENNA SNYDER

#2560 MARY M. SALTZ

#2561 MARY M. SALTZ

1½ Sty. Fr. House

2 Sty. Shingle House

1½ Sty. Brick Shingle House

OHIO WATER SERVICE CO.

STA. 650+00 TO STA. 655+00 - RIGHT OF WAY

21-STA-11.39

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

50A 61 R/W 1 12

STA.-21-11.39

LOCATION PLAT
STA.-21-11.39
STARK COUNTY
CITY OF MASSILLON

SCALE : 1" = 200'

LIMITED ACCESS HIGHWAY

I HEREBY CERTIFY THIS PLAT TO BE CORRECT

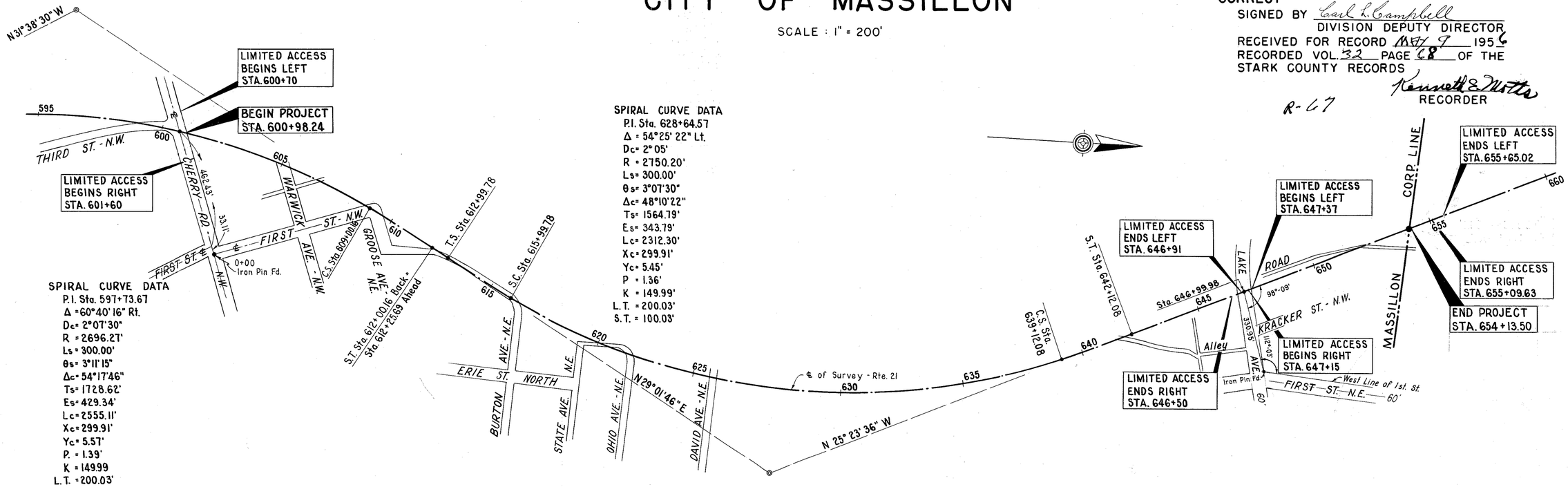
SIGNED BY Carl L. Campbell
DIVISION DEPUTY DIRECTOR

RECEIVED FOR RECORD MAY 9 1956

RECORDED VOL. 32 PAGE 68 OF THE STARK COUNTY RECORDS

Kenneth E. Motts
RECORDER

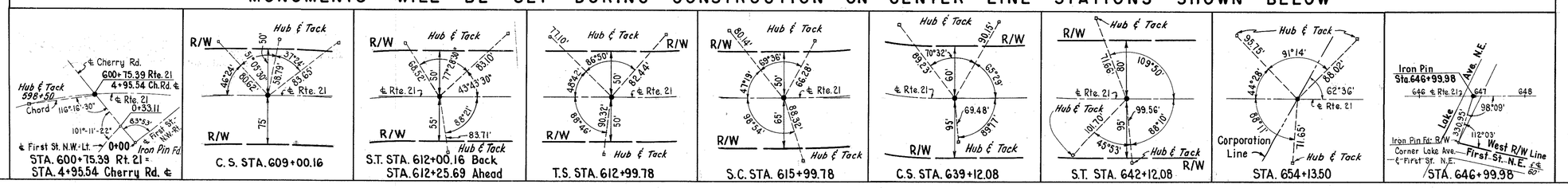
R-67



SPIRAL CURVE DATA
P.I. Sta. 597+73.67
Δ = 60°40' 16" Rt.
Dc = 2°07' 30"
R = 2696.27'
Ls = 300.00'
θs = 3°11' 15"
Δc = 54°17' 46"
Ts = 1728.62'
Es = 429.34'
Lc = 2555.11'
Xc = 299.91'
Yc = 5.57'
P. = 1.39'
K = 149.99
L.T. = 200.03'
S. T. = 100.03'

SPIRAL CURVE DATA
P.I. Sta. 628+64.57
Δ = 54°25' 22" Lt.
Dc = 2°05'
R = 2750.20'
Ls = 300.00'
θs = 3°07' 30"
Δc = 48°10' 22"
Ts = 1564.79'
Es = 343.79'
Lc = 2312.30'
Xc = 299.91'
Yc = 5.45'
P = 1.36'
K = 149.99'
L.T. = 200.03'
S.T. = 100.03'

MONUMENTS WILL BE SET DURING CONSTRUCTION ON CENTER LINE STATIONS SHOWN BELOW



FED. RD DIVISION	STATE	PROJECT	
	OHIO		

51
61

STA.-21-11.39

R/W
2.
12

LIMITED ACCESS
BEGINS LEFT
STA. 600+70.00

U. S. GOVT. PROPERTY
3 LA

N.29° 01' 46" E

30" Conc. Wingwall

600+70
65.5'

601+00
50'

Top of Dike

(Arc Radius 2746.27')

R/W

Limit of Construction

21" Toe Drain

21", 18"

24" Storm Sewer

C.B.

12" Water Line

Conc. Walk

6" Conc. Curb

Street Market

24" Pipe Toe Drain

M.H.

#3600
WILLIE S. & SUSIE GILLINS

3 LA
LOT #3609
1.006 Ac.

602+39
47.5

602+74
40'

602+31
47.5

601+01
Earth Drive

602+15

602+45
11.5

602+82
11.5

4 LA
0.256 Ac.

604+44.6
85'

50'

604+51.0

603
604
6" Sanitary Sewer
M.H. 605

BEGIN SHEET - STA. 600+00

END SHEET - STA. 605+00

600+75.30
4+95.4

U.S. 21
Cherry Rd.

600

601

1 LA
0.089 Ac.

602

Shed

602+15

2 LA
LOT #3599
ALBERT MURDOCK
0.151 Ac.

12"S't'y. Fr. House

2 St'y. Frame House

18" Catalpa

24" Catalpa

Hedge

4' Conc. Walk

12" Pipe

6" Sanitary Sewer

6" Conc. Curb

W.V.

F.H.

8" Water Line

CHERRY ROAD N.W.

601+36
47.5

601+58
86.5'

16" Buckeye

Hedge

Fr. Shed

602+87
40'

603+46
40'

6" V.C. Pipe Drain

Asphalt Basketball Court

WARWICK AVE.

Conc. Walk

Macadam Court

School

Guy Pole

LIMITED ACCESS
BEGINS RIGHT
STA. 601+58.00

8" Conc. Walk

LOT # 3598
BOARD OF EDUCATION
MASSILLON CITY SCHOOL DISTRICT
4 LA

WARWICK & BALDWINS ADDITION
PLAT BOOK 3 PAGE 184

As Shown on Record Plat

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60° 40' 16" Rt.
Dc - 2° 07' 30"
R - 2696.27'
Ls - 300'
θs - 3° 11' 15"
Ts - 1728.62'
Es - 429.34'
Lc. - 2555.11'
Xc - 299.91'
Yc - 5.57'
P - 1.39'
L.T. - 200.03'
S.T. - 100.03'
T.S. - 580+45.05
S.C. - 583+45.05
Δc - 54° 17' 46"

CITY OF MASSILLON
STARK COUNTY
PERRY TOWNSHIP
FR. SEC. 7 T-10-N R-9-W

Scale : 1" = 20'

STA. 600+00 TO STA. 605+00 - RIGHT OF WAY

FED. RD DIVISION	STATE	PROJECT	
	OHIO		

52
61

R/W
3
12

STA.- 21 - 11.39

U. S. GOVT. PROPERTY
3 LA

Top of Dike

R/W

18" Toe Drain

Limit of Construction

(Arc Radius 2746.27')

24" Storm Sewer

4" H.P. Gas Line

12" Water Line

15" Toe Drain

BEGIN SHEET - STA. 606+00

END SHEET - STA. 610+00

U.S.A.

#3587 TONY PALONE 0.046 Ac. 2 St'y Frame House

#3588 JILES R. & DAISY A. EDWARDS 0.090 Ac. 2 St'y Fr. House

#3577 BLANE & CECILIA JOHNSON 0.066 Ac. 2½ St'y Fr. House

CLARA ALEXANDER 0.798 Ac.

#3578 MARY DOWN 0.065 Ac. 2½ St'y Fr. House

#3566 M.H. JACOBS 0.160 Ac.

#3589 SALVATORE BLOGNA 0.139 Ac. 2 St'y Fr. House

0.090 Ac.

0.021 Ac.

0.054 Ac. 2½ St'y Fr. House

#3590 GEORGE W. & MARY S. LEMON 2 St'y Brick Shingle House

#3591 VINNIE LEAVELL 2 St'y Brick Shingle House

HERBERT & BERTHA FLOWERS 2½ St'y Fr. House

#3565 WILLIE TOM & WILLIE JEAN BODIFORD 0.056 Ac. 2½ St'y Fr. House

#3564 TIMOTHY & LYDIA SMITH 0.014 Ac. 2½ St'y Fr. House

#3563 HELEN M. MERCER 2½ St'y Fr. House

0.256 Ac.

MASSILLON CITY SCHOOL DISTRICT

WARWICK AVENUE N.W. (Gravel)

FIRST STREET (Gravel)

GROOSE AVE. (Earth)

WILLIE TOM & WILLIE JEAN BODIFORD R/W

Conc. Blk. Garage

Frame Garage

Conc. Walk

Brick Court

Ft. Shed

Shed

Conc Drive

Conc Patio

Hedge

Wire Fence

Wood Fence

Stone

Brick

Rock Curb

8" Sanitary Sewer

15' Alley

Well (Abandoned)

Gas

O.H.P.L.

O.B.T. Co.

C.B.

G.V.

M.H.

W.V.

W.M.

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60°40'16" Rt.
Dc - 2°07'30"
R - 2696.27'
Ls - 300'
θs - 3°11'15"
Ts - 1728.62'
Es - 429.34'
Lc - 2555.11'
Xc - 299.91'
Yc - 5.57'
P - 1.39'
L.T. - 200.03'
S.T. - 100.03'
Δc - 54°17'46"

C.S. Sta. 609+00.16

Scale : 1" = 20'

STA 605+00 TO STA 610+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

53/61

STA.-21-11.39

4/12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ-54° 25' 22" Lt.
Dc-2° 05'
R-2750.20'
Ls-300.00'
θ-3° 07' 30"
Δc-48° 10' 22"
Ts-1564.79'
Es-343.79'
Lc-2312.30'
Xc-299.91'
Yc-5.45'
P-1.36'
K-149.99'
L.T. 200.03'
S.T. 100.03'

BEGIN SHEET-STA. 610+00

END SHEET-STA. 615+00

U.S. GOVT. PROPERTY

#9200 U.S.A.

#9201 U.S.A.

T.S.-Sta. 612+99.78

Top of Dike

R/W

15" Toe Drain

12" Toe Drain

Limit of Construction

24" Storm Sewer

1½ Story Frame House

10' Gravel Drive

#3567

#3568

#3566

#3565

#3554

#3553

#3569 ROY E. SLATER

#3570 ANTHONY J. DIANA

#3571

#3572

#9202

#9203 F. & MARY D. KELLER

#9204 MIKE KURLINSKI

JESSE BIRDSONG

M.H. JACOBS

ANN S. FURIATE

M.H. JACOBS

0.160 Ac.

0.119 Ac.

0.078 Ac.

1.006 Ac.

0.054 Ac.

1.006 Ac.

0.088 Ac.

0.035 Ac.

0.001 Ac.

0.285 Ac.

18" Maple

18" Maple

24" Apple

30" Maple

Twin 36" Willow

36" Maple

8" Twin Walnut (Dead)

8" Willow (Dead)

Earth Road

18" San. Sewer

M.H.

Pole

C.B.

18" San. Sewer

M.H.

1½ Story Fr. House

Conc. Walk

Conc.

12" Apple

GROOSE AVE.

50'

Const. S.T. Sta. 612+00.16 Back
= Survey S.T. Sta. 612+25.69 Ahead

Spiral Curve Data
P.I. Sta. 597+73.67
Δ - 60° 40' 16" Rt.
Dc- 2° 07' 30"
R - 2696.27'
Ls- 300.00'
θ - 3° 11' 15"
Ts- 1728.62'
Es- 429.34'
Lc- 2555.11'
Xc- 299.91'
Yc- 5.57'
P - 1.39'
L.T.- 200.03'
S.T.- 100.03'
Δc- 54° 17' 46"

STA. 610+00 TO STA. 615+00-RIGHT OF WAY

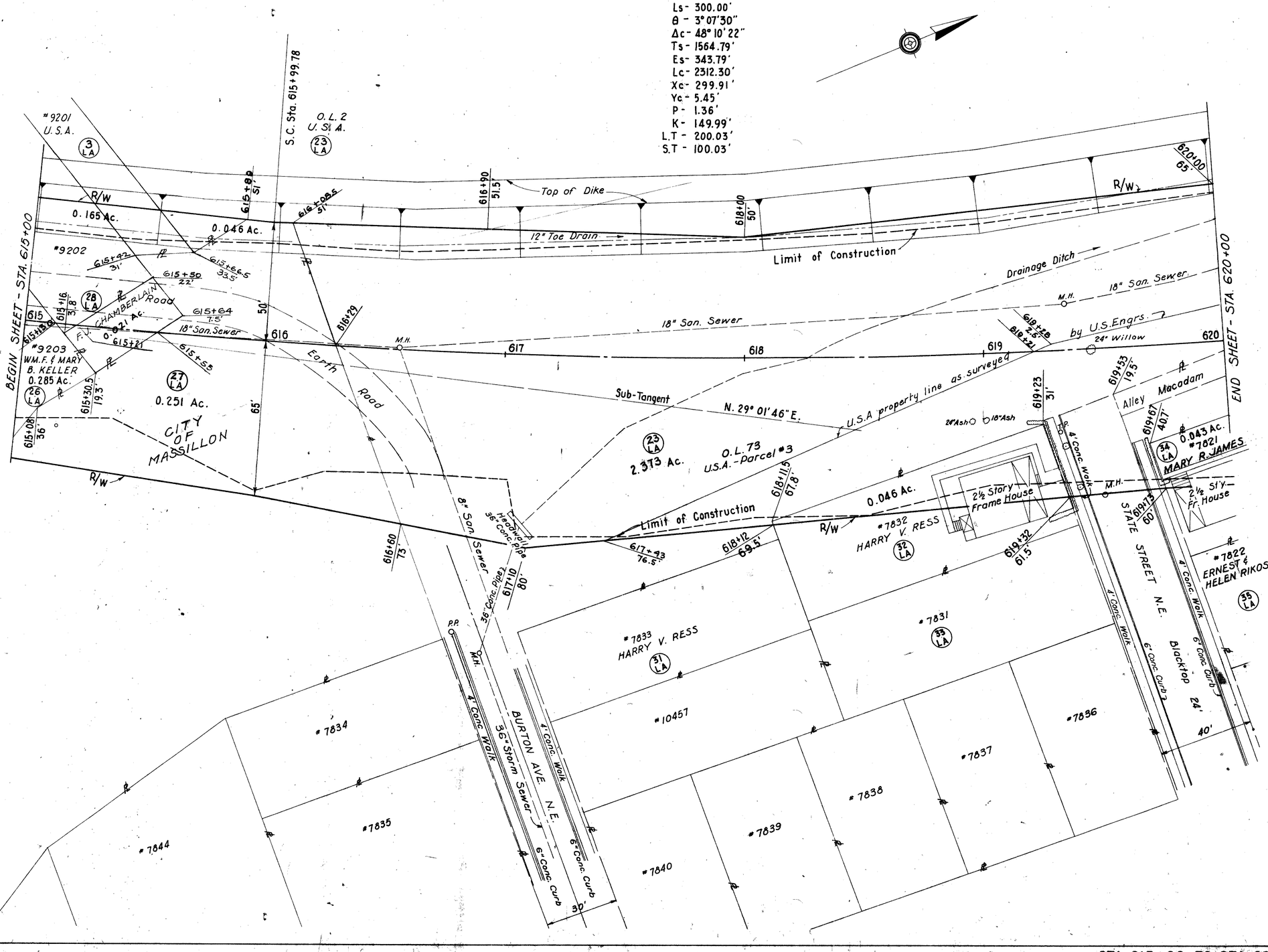
FED. RD DIVISION	STATE	PROJECT	
	OHIO		

54
61

STA.-21-11.39

R/W
5
12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00'
θ - 3° 07' 30"
Δc - 48° 10' 22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T - 200.03'
S.T - 100.03'



STA. 615+00 TO STA. 620+00 – RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT
	OHIO	

55
61

STA.-21-11.39

R/W

6
12

BEGIN SHEET - STA 620+00

END SHEET - STA. 625+00

Top of Dike

12" Toe Drain

M.H.

18" Toe Drain

623+00

625+00

76.5

R/W

Drainage Ditch (Arc Radius 2685.20')

18" Sanitary Sewer

O.L. 73
U.S.A.-Parcel #3
23 LA
2.373 Ac.

621+66 Limit of Construction

24" Twin Ash

24" Twin Ash

Dead Stump

622+80.5
41.3'

12" Ash

12" Maple

16" Hickory

16" Ash

14" Elm

U.S.A. as surveyed property line by U.S. Engrs.

16" Sycamore

14" Apple

16" Ash

12" Poplar

24" Poplar

18" Apple

24" Sycamore

10" Apple

10" Apple

10" Maple

620+13.5
620+21.8
4' 620+21.8 U.S.A. as surveyed property line by U.S. Engrs.
3'

620+82

621+29
7.6'
621+31

621+69
13.8'
624+72.8

622+13.7
25.4'
622+82.4
32.8'
622+88.2
622+78

623+33.8
29'

623+85.2
24.6'

624+36.5
19'

624+81.8
12'

Alley

Earth Drive

1 Sty. Fr. House

#4988
HELEN LOUISE SCHRADER

Conc. Blk. Garage

Metal

15" Sycamore

620

621

622

623

624

625

60'

Frame Garage

620+35
8.3'

36 LA
0.135 Ac.

Earth Parking Area

2 Sty. Fr. Apartment House

30" Elm

#7821
MARY R. JAMES

620+80
23.4'

34 LA
0.043 Ac.

28" Elm

#4989
GEO. L. & MARTHA E. NULL

39 LA
0.100 Ac.

621+73
31'

622+80
12'

ROBERT & IMOGENE ROBART

39 LA
0.108 Ac.
#4987

12" Cherry

4" Spruce

2 Sty. Fr. House

41 LA
0.807 Ac.

48" Oak

#5151

10" Apple

3" Twin Apple

#5152

12" Oak

#5153

#5154

F. SCHWORM

MELVILLE

6" Apple

Limit of Construction

Shrub

5" Crab Apple

Maple

R/W

36" Stump

12' Alley

20" Apple

12" Maple

10" Apple

624+47.3
81'

624+95
76'

623+48
64.2'

623+97
72'

622+97
51.5'

622+87
56'

Conc. Blk. Garage

Fr. Gar.

Earth Drive

40 LA

#4986
HUBERT KRUMLAUGH

1 Sty. Fr House

Hedge

N 29°01'46"E

Sub-Tangent

#4985

#4984

#5155

12" Maple

6" Maple

10" Maple
O.P.S. Co.

33' Conc. Walk

6" Conc. Curb

DAVID AVE.

3.5' Conc. Walk

6" Conc. Curb

620+38
60'

620+48
60'

620+97
60'

621+46
60'

621+84
60'

621+87.5
76'

R/W

Alley

OHIO AVE. N.E.

4' Conc. Walk

6" Conc. Curb

6" Water Line

Fr. H5a

2½ St'y.

(Arc Radius 2810.20)

35 LA
#7822
ERNEST & HELEN RIKOSKY

37 LA
#4990

#4991
MERICK LAND CO.

#9205

#4992

2 Sty. Shingle Apt.

2' Conc. Walk

3' Gutter

6" Conc. Curb

4' Conc. Walk

40'

M.H. (Covered)

SPIRAL CURVE DATA
P.I. Sta. 628+64.57
Δ = 54°25'22" Lt.
Dc = 2°05'
R = 2750.20'
Ls = 300.00'
θs = 3°07'30"
Δc = 48°10'22"
Ts = 1564.79'
Es = 343.79'
Lc = 2312.30'
Xc = 299.91'
Yc = 5.45'
P = 1.36
K = 149.99'
L.T. = 200.03'
S.T. = 100.03'

STA. 620+00 TO STA. 625+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

56/61

STA.-21-11.39

R/W 7/12

BEGIN SHEET - STA. 625+00

END SHEET - STA. 630+00

Top of Dike

625+00 16.5

626+00 90'

R/W

18" Toe Drain Ditch

Limit of Construction

Drainage Ditch

629+35 81'

R/W

630+00 75'

(23 LA) 2.373 Ac.

O.L. 73
U.S.A. Parcel #5

Guy Wires

Guy Wires

Drainage Ditch

Elev. Bottom Wire - 975.1

20" Ash

629+23 33.5

629+28 7'

629+30.6

625+38

625

626 M.H.

627

628

629

630

12" Hickory

24" Dead Stump

12" Stone Wall

16" Elm

8" Conc. Wall

4' Conc. Walk

18" Sanitary Sewer

(41 LA) 0.807 Ac.

14" Elm

12" Elm 626+51 31'

14" Apple

24" Oak

2½ Story Frame House

#5150 MELVILLE F. SCHWORM

2 Sty. Frame Barn

8" V.C.P.

15" Stump

5" Tree

36" Oak

Limit of Construction

O.P.S. Co.

M.H.

627+98 76

628+12.5 79

628+47 89'

628+62 94'

(44 LA) 0.346 Ac.

R/W

6" Conc. Curb

6" Conc. Curb

12' Cinder Alley

Brick

626+53 79'

0.014 Ac.

627+98 92'

628+13 94'

628+30 95'

0.001 Ac.

629+50 90'

R/W

4" Apple

5" Apple

#5149

8' Cinder Drive

3.5 Conc. Walk

(41 LA)

O.L. 68
MELVILLE F. SCHWORM

12" San. Sewer

628+49 94.5

(42 LA)

#9719 O.L. 69
ZELLA MAY FRICK

(43 LA)

O.L. 69
MERICK LAND CO.

(45 LA) 1.013 Ac.

629+17.5

O.L. 74
U.S.A. Parcel No. 313
J. & J. EAGLOWSKI

629+37 28

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00
θ - 3° 07' 30"
Δc - 48° 10' 22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'

N. 29° 01' 46" E.

STA. 625+00 TO STA. 630+00 - RIGHT OF WAY

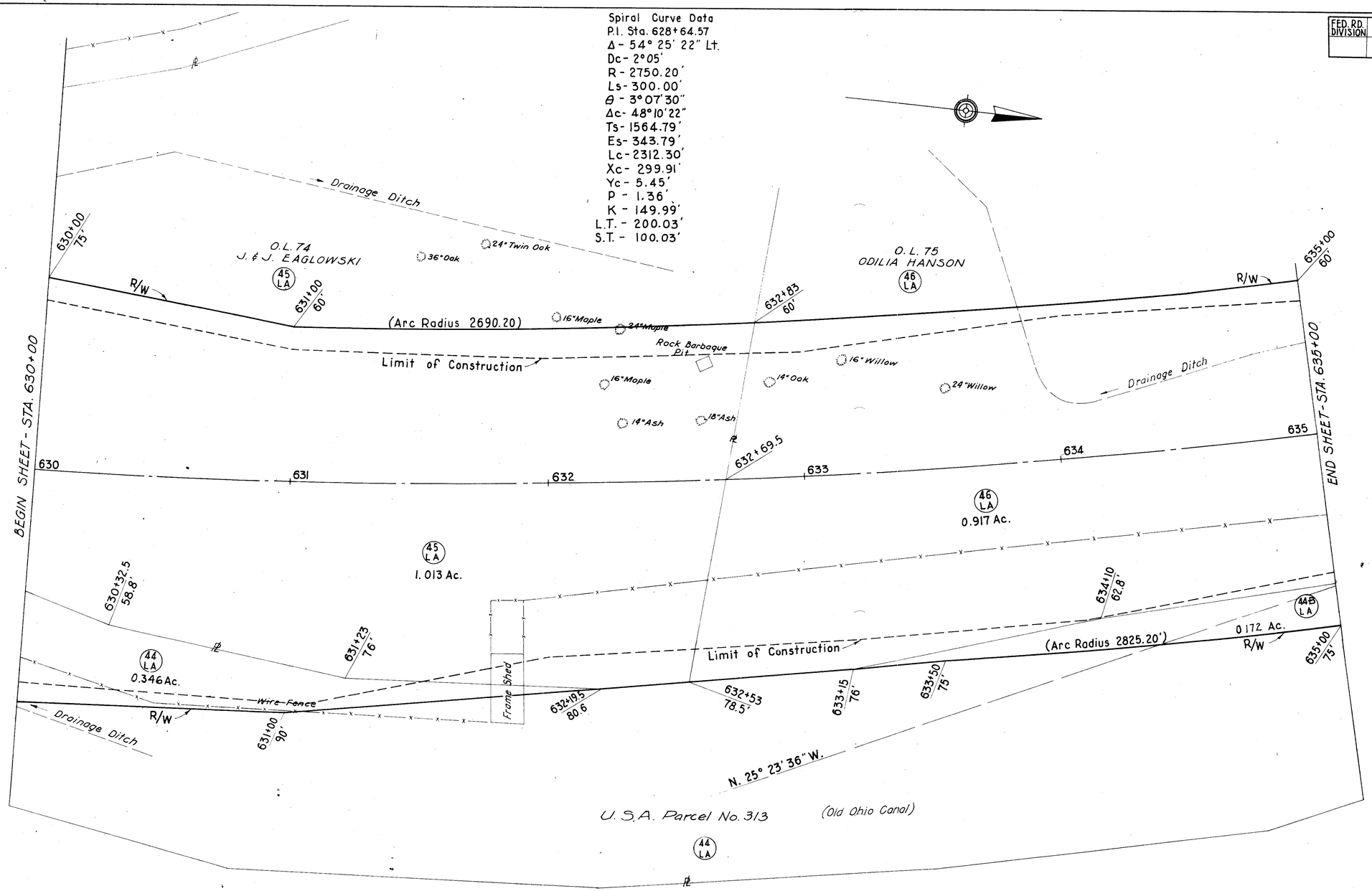
FED. RD. DIVISION	STATE	PROJECT	

57
61

STA. - 21 - 11.39

R/W
8
12

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2°05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'



STA. 630+00 TO STA. 635+00 RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

58
61

STA.- 21-11.39

R/W
9
12

Spiral Curve Data.
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2°05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22"
Ts - 1564.79'
Es - 343.79'
Lc - 2312.30'
Xc - 299.91
Yc - 5.45'
P - 1.36'
K - 149.99'
L.T. - 200.03'
S.T. - 100.03'

O L 75
ODILIA HANSEN

46 LA

BERNARD & ALEEN HARWIG

47 LA

635+00
60'

R/W

℄ 636+08
60'

R/W (Arc. Radius 2690.20')

C.S. Sta. 639+12.08
639+12.08
60'

R/W

Well

Limit of Construction

Well
Stone
Conc.
2½-Sty-Fr. House
2' Conc. Walk
Shrubs

60'

639+12.08

639+28.5

12" Catalpa

℄ 640

Sub-Tangent

14" Willow

END SHEET - STA. 640+00

BEGIN SHEET - STA. 635+00

46 LA
0.917 Ac.

635

636

637

638

639

24" Willow Stump

636+87.5

24" Willow Stump

637+98
14"

20" Wild Cherry

14" Willow

638+97
3.8

MUSKINGUM WATERSHED
CONSERVANCY DISTRICT

95'

N 25° 23' 36" W

Sub-Tangent

℄

636+86.5
32.5

637+01
31.2

24" Willow

635+72
48.5

635+09
58

44A LA
0.906 Ac.

53 LA

8" Elm

448 LA
0.172 Ac.

Old Canal

Limit of Construction

Fr. Shed

Frame Garage

639+38
78

639+93
78'

15" Apple

51 LA

(Arc Radius 2825.20)

635+00
51

R/W

638+50
75'

638+75.3
83'

638+91
82'

0.014 Ac.

0.022 Ac.

R/W

639+93
95'

Fr. Gar.

636+93.5
75

638+91
81.5

10" Apple

12" Apple

0.001 Ac.

639+12.08
95'

639+36
94'

24" Apple

U. S. A. Parcel No. 313.

#9697
REEVE E. &
DORIS L McDOWELL

#9696
KARL A. &
LAVELLE E. PAULIK

15" Elm

#9695
CHESTER B. HAZEL

Fr. Gar.

8" Cherry

1½ Sty Frame House

1½ Sty Shingle House

1½ Sty Shingle House

0.018 Ac.

10" Cherry

49 LA

50 LA

51 LA

52 LA

STA. 635+00 TO STA. 640+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

59
61

STA.-21-11.39

R/W
10
12

BEGIN SHEET - STA. 640+00

END SHEET - STA. 645+00

2 Story Barn

BERNARD & ALEEN HARWIG

641+21
75.7'

S.T. Sta. 642+12.08

R/W

O.L. 76
U.S.A.

55 LA

643+25
105'

644+16
105'

645+00
105'

643+00
90'

O.L. 162
VIRGINIA M. SELOGY

Limit of Construction

Top of Dike

80'

47 LA
0.933 Ac.

56 LA
0.439 Ac.

30" Willow

643+80
30'

644+26.5
34'

Drainage Ditch

2-30" Willows

30" Willow

641+70
17.3'

641+84

640+93.5
15'

Gravel Road

640
Pole

641

642

643

644

644+54.5

645

644+68.8
17'

N 25°23'36"W

24" Willow

36" Willow

30" Twin Willow

Old Canal

643+65
21.8'

44-A LA
0.906 Ac.

O.L. 76
U.S.A.

55 LA
0.951 Ac.

57 LA
0.534 Ac.

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

95'

24" Willow

24" Willow

24" Willow

24" Oak

24" Oak

24" Oak

641+44
69.5'

642+38.6
66.5'

644+08
73'

58 LA 0.055 Ac.

Limit of Construction

#2697
L.C. REYNOLDS

640+42
73'

Gar.

53 LA
0.118 Ac.

641+36
94'

642+62
95'

644+26.5
95'

641+93.5
95'

645+00
95'

R/W

10" Pine

52 LA
0.018 Ac.

640+37
93'

10" Apple

#10149
ALBERT SLICKER

#10148
VINCENT G. & IRENE B. NEVEL

#10147
ALICE MOLINSKI

#10151
EARL D. & FLORENCE KAISER

54 LA

59 LA

Spiral Curve Data
P.I. Sta. 628+64.57
Δ - 54° 25' 22" Lt.
Dc - 2° 05'
R - 2750.20'
Ls - 300.00'
θ - 3°07'30"
Δc - 48°10'22
Ts - 1564.79
Lc - 2312.30'
Xc - 299.91'
Yc - 5.45'
P - 1.36'
K - 149.99'
LT. - 200.03'
ST. - 100.03'
Es - 343.79'

approximate edge old basin and property line as shown on county tax map sheets

2 Sty Fr. House

1½ Sty Fr. House

#10150
HAZEL BAIR

ledge

Alley

Alley

STA. 640+00 TO STA. 645+00 — RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	OHIO		

60 / 61

STA.- 21 - 11.39

R/W 11 / 12

END WORK STA. 7+32.95

Curve Data - Lake Ave.
P.I. Sta. 6+30.12
Δ - 33° 56' 00" Rt.
D - 16° 00'
T - 109.25'
L - 212.08'
R - 358.10 (Arc)
P.C. Sta. 5+20.87
P.T. Sta. 7+32.95

NOTE:
Parcel 62-A City Of Massillon
Formerly Owned By Mike & Anna Drobney

LIMITED ACCESS ENDS LEFT STA. 646+91

LIMITED ACCESS BEGINS LEFT STA. 647+37

LIMITED ACCESS ENDS RIGHT STA. 646+50

LIMITED ACCESS BEGINS RIGHT STA. 647+15

BEGIN WORK STA. 3+70

Sta. 646+98.14 M.L. = Sta. 5+00 - Lake Ave.

BEGIN SHEET - STA. 645+00

END SHEET - STA. 650+00

Added Pc. 62-A 9-9-60

STA. 645+00 TO STA. 650+00 - RIGHT OF WAY

FED. RD. DIVISION	STATE	PROJECT	
	110		

61 / 61

STA. -21-11.39

R/W 12 / 12

BEGIN SHEET - STA. 650+00

END SHEET - STA. 655+00

650+00 90'

650+05 89.7

650+04 41.5

650+91.5 36.'

651+50 80'

651+93 18.'

652+37 3.6'

652+49

652+68 80'

653+60' 84.9

654+59.15 90'

654+78.29 125'

655+65.02 125'

650+41.5 29.5'

650+49.6 48.6'

650+33.2 45.5'

651+18 63'

651+87 77'

650+00 85'

650+12 85'

650+29.5 85'

651+07 85'

651+83 85'

652+10 85'

652+50 85'

653+00 80'

653+72.03 80'

654+21.10 75.11

654+47.24 89.84

653+48.71 125'

654+39.27 49.72

654+80.23 32.74

654+13.5

654+62.28

654+96.49

652+91 12.1'

653+85.08 54.82

655+09.63 125'

LIMITED ACCESS ENDS, LEFT STA. 655+02

LIMITED ACCESS ENDS RIGHT STA. 655+09.63

N 25° 23' 36" W

63° 36' 00"

L I M I T S

C O R P O R A T I O N

O.L. 163 MIKE & ANNA DROBNEY

RICHARD G. CLEMENS

MILDRED L. SELOGY

Limit of Construction

R/W

Earth Road

Old Canal

MUSKINGUM WATERSHED CONSERVANCY DISTRICT

Shed

20" Willow

Roof

Frame House

Well

2-Sty. Fr.

1-3-Car

Fr. Shed

Chicken Coop

24" Oak

18" Ash

42" Willow

30" Poplar

Iron Pin

16" Ash

15" Catalpa

6" Cherry

3" Cherry

6" Plum

12" Maple

15' Alley

Brick

Brick Patio

Wood Steps

Conc. Walk

Conc.

Conc. Drive

Stone Steps

Conc. Patio

Iron Posts for Fence

10" Ash

6" Pine

5" Pine

15" Ash

Brick Walk

Fr. Gar.

Fr. Shed

Drainage Ditch

Brush & Small Trees

Exist. 30" RCP

67 LA 0.324 Ac.

66 LA 0.190 Ac. #2534 LORETTA STILWELL

69 LA 0.052 Ac.

70 LA 0.027 Ac.

63 LA 1.131 Ac.

74 LA 0.517 Ac.

73 LA 0.307 Ac.

71 LA 0.003 Ac.

72 LA

75 LA

OHIO CANAL 0.131 Ac.

MILDRED L. SELOGY 0.511 Ac.

#2557 JUNE E. HERSHEY

#2558 JOS. & LUERETIA R. KISH

#2559 CHAS. O. & GLENNA SNYDER

#2560 MARY M. SALTZ

#2561 MARY M. SALTZ

1½ Sty. Fr. House

2 Sty. Shingle House

1½ Sty. Brick Shingle House

OHIO WATER SERVICE CO.

STA. 650+00 TO STA. 655+00 - RIGHT OF WAY