MICROFILMED
SEP 9 1963

I-71-1(14)62
Red 737

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	I-71-1(14)62	1/162

GREENE & FAYETTE COUNTIES
GRE-1-1.08 FAY-1-0.00

I-82

CONVENTIONAL SIGNS

Center Line
Property Line
R/W with Limited Access
R/W without Limited Access
Existing R/W
County Line
Township Line
Construction Limits
Existing Fence Lines
R/W Fence
Trees and Stumps
Power Poles
Telephone Poles
Telegraph Poles
Guard Rail (Proposed)
High Voltage Transmission Poles
Trees & Stumps (To be removed)

STATE OF OHIO
DEPARTMENT OF HIGHWAYS

GRE-1-1.08 FAY-1-0.00

JEFFERSON TOWNSHIP, GREENE COUNTY.
JASPER TOWNSHIP, FAYETTE COUNTY.

LIMITED ACCESS–This improvement is especially designed for through traffic and has been declared a limited access highway or freeway by action of the Director of Highways in accordance with the provisions of Section 5511.02 of the Revised Code of Ohio.

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

The Right of Way for this improvement will be provided by the State of Ohio.

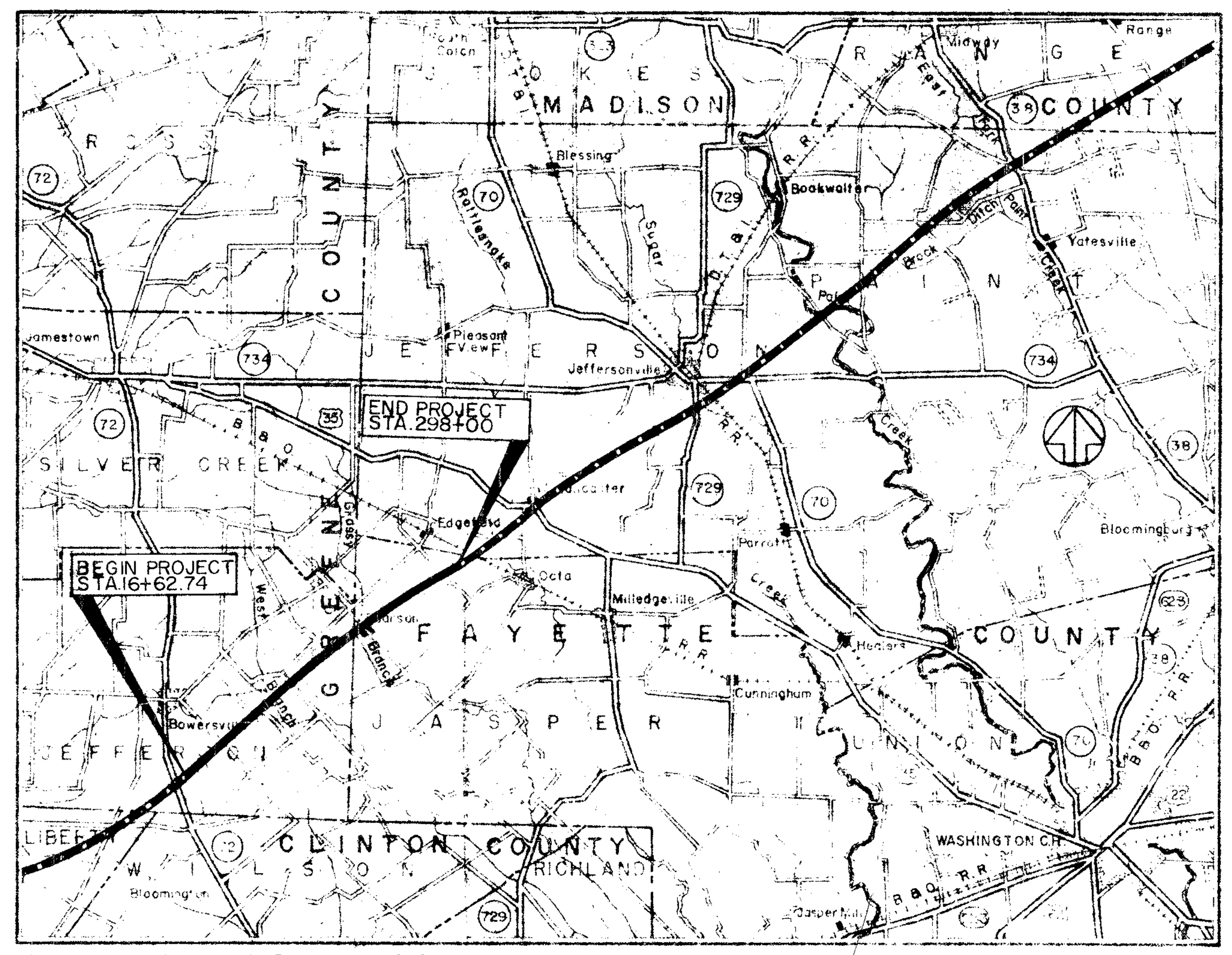
I hereby approve these plans and declare that the making of this improvement will not require the closing of the highway to traffic and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

INDEX

Sheet 107 Revised 3-18-63

LINE DATA

BEGIN PROJECT	STA. 16+62.74	
END PROJECT	STA. 298+00.00	
TOTAL LENGTH PROJECT	28,137.26 LIN. FT. OR 5.329 MILES	
ADD FOR APPROACHES		
WEST APPROACH	STA. 16+05 TO 16+62.74 =	57.74 LIN. FT.
ORCHARD GROVE RD.	STA. 7+50 TO 30+50 =	2,300.00 LIN. FT.
SMITH RD.	STA. 11+50 TO 30+00 =	1,850.00 LIN. FT.
JENKS RD.	STA. 10+25 TO 30+75 =	2,050.00 LIN. FT.
EAST APPROACH	STA. 298+00 TO 303+45 =	545.00 LIN. FT.
		6,802.74 LIN. FT.
TOTAL LENGTH WORK	34,940.00 LIN. FT. OR 6.617 MILES	



Delivery Point *Jeffersonville* LOCATION MAP
Average haul from siding 9.0 Miles (D.T.& I.R.R.)

Portion to be improved
State Roads
Other Roads

0 1 2 3
SCALE OF MILES

APPROVED DATE 9-6-62 E. L. Shelley RSDE — DIVISION DEPUTY DIRECTOR
APPROVED DATE 9-17-62 D. H. Overman — ENGINEER OF BRIDGES
APPROVED DATE 9-20-62 [signature] — ENGINEER OF LOCATION AND DESIGN
APPROVED DATE 9-20-62 [signature] — DEPUTY DIRECTOR OF DESIGN AND CONSTRUCTION
APPROVED DATE 9-7-62 [signature] — DEPUTY DIRECTOR OF RIGHT OF WAY
APPROVED DATE 9-21-62 [signature] — DEPUTY DIRECTOR OF PLANNING AND PROGRAMMING
APPROVED DATE 9-21-62 [signature] — FIRST ASSISTANT DIRECTOR
APPROVED DATE 9-21-62 E. S. Preston — DIRECTOR OF HIGHWAYS

SCALES IN FEET
PLAN
PROFILE HORIZONTAL = 50
PROFILE VERTICAL = 5
CROSS SECTIONS = 10

PLANS PREPARED BY
BURGESS & NIPLE CONSULTING ENGINEERS
2015 WEST FIFTH AVENUE, COLUMBUS, OHIO
FOR THE STATE OF OHIO
RECOMMENDED FOR APPROVAL
Robert H. Tippett

File No.	GREENE & FAYETTE COUNTIES GRE-1-1.08, FAY-1-0.00 Date of Letting ______ 196 Contract No. ______

STANDARD CONSTRUCTION DRAWINGS								SUPPLEMENTAL SPECIFICATIONS	
B-T-70-71	11-15-60	HW-C	7-15-57	L-1	4-1-50	CS-2-54 (Sheets 1&2)	2-2-59		
B-T-71 R	3-2-53	HW-E	11-15-60	L-3	4-1-50	CSB-2-56 (Sheets 2&3)	2-2-59	I-125 Rev.	6-26-61
DR-1	1-3-55	I-1	11-15-60	L-3-A	4-1-50	P-1-54	2-2-59	B-112	8-21-61
		I-8 C.B. 2-2-A & B	3-2-59	L.J. NO. 1	7-1-55	RB-1-55	2-2-59	CE-101.04	5-22-56
		I-8 C.B. NO. 8	3-15-60	RI-1	7-15-58	AS-1-54	7-5-62	I-127 Rev.	1-15-62
FACI-1	12-27-61	I-15 NO. 1	11-15-60	T-35	1-2-56			I-128	7-31-59
FACI-2	12-27-61	I-15 NO. 2-A	8-17-60	TJ	9-12-60			I-129 Rev.	4-5-61
G-7.07	6-1-56	I-15 NO. 5	6-1-61	A-1-54	12-1-54			M-107.18 Rev.	4-3-61
		I-15 NO. 6	7-1-59	AR-1-57	4-2-62			M-109.28 Rev.	8-12-59
								L-120 Rev.	1-2-62

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC ROADS

APPROVED ______
DIVISION ENGINEER DATE

GREENE & FAYETTE COUNTIES
GRE 1-1.08 FAY 1-0.00
DECEMBER 13, 1962

GRE 1-1.08
FAY 1-0.00
CHANGE ORDER NO. 1

WORK REQUIRED

Grade changes in the ditch on right side, will require additional excavation between Sta. 69+00 and Sta. 92+36. The additon of a drainage ditch at Sta. 69+93 Rt will require additional dump rock, sod and excavation. Powers Road drainage outlet at Sta. 84+00 will require change of grade between Sta. 22+00 Powers Road and mainline ditch. Sod will be required for ditch protection on the new grade and the relocation of the proposed guard rail at Powers Road will also be required, but no additional quantities of guard rail are needed.

ESTIMATED QUANTITIES

ITEM	DESCRIPTION	TOTAL	
		ADD	DEDUCT
I-10	Dumped Rock Channel Protection	57Cu.Yd.	
L-10	Sodding	155 Sq.Yd	
E-1	Roadway Excavation, Method "B" as per plan	1693Cu.Yd.	
L-9	Seeding and Protecting, as per plan	2185 Sq.Yd.	
E-4	Borrow		1439Cu.Yd.

CHANGE ORDER SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

2/162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

GREENE COUNTY
JEFFERSON TOWNSHIP

Federal Aid Construction Identification Sign

I-71-1(14)G2

BEGIN PROJECT
GRE.I-1.08, FAY. I-0.00
STA. 16+62.74
S.L.M. 1.08

BEGIN WORK
STA. 16+05

BEGIN WORK
STA. 7+50

Exist. Orchard Grove Rd.

℄ Temporary Runaround

P.C.1 44+62.28

P.I.1 50+00

P.T.1 55+37.37

88°-44'-27"

N 49°-54'-59" E

GRE-I-0148

Sta 37+10.68 S.R.-1
Sta 20+00 Orchard Grove Rd

Federal Aid Construction Identification Sign

END WORK
STA. 30+50

CURVE DATA P.I.1 50+00
Δ = 3°-35'-01" Rt.
D = 0°-20'
R = 17,188.734'
L = 1075.083'
T = 537.717'
E = 8.41'

93°-48'-37"

Sta 84+81.56 S.R.-1
Sta 20+00 Powers Rd

Cul de Sac

Exist. Powers Rd.

Exist. Hargrove Rd

Road Closed Sign

Branch

West

GREENE COUNTY
JEFFERSON TOWNSHIP

BEGIN WORK
STA. 11+50

GRE-I-0252

N 53°-30'-00" E

Sta 116+60.13 S.R.1
Sta 20+00 Smith Rd

86°-06'-00"

GRE-I-0297

Exist. Smith Rd.

END WORK
STA. 30+00

P.C.2 145+36.39

P.I.2 151+83.03

P.T.2 158+29.06

Sta. 160+00

Match Line

CURVE DATA P.I.2 151+83.03
Δ = 4°-18'-32" Rt.
D = 0°-20'
R = 17,188.73'
T = 646.64'
L = 1292.67'
E = 12.16'

Road Closed Sign

FAYETTE COUNTY
JASPER TOWNSHIP

Exist. Zimmerman Road

GREENE COUNTY
JEFFERSON TOWNSHIP

Jefferson Township
Greene County
Fayette County
Jasper Township

Sta. 160+00

Match Line

N 57°-48'-32" E

N 5°-33'-32" E

Sta. 173+93.70

Branch

Grassy

Exist. Marchant-Luttrell Rd
Co. Rd. 13

12+50

Federal Aid Construction Identification Sign.

96°-27'-38"

FAY-I-0028

FAY-I-0047

Sta 199+35.26 S.R.1
Sta 20+00 Co. Rd 13

Federal Aid Construction Identification Sign.

28+50

FAYETTE COUNTY
JASPER TOWNSHIP

Exist. Edgefield Road

CURVE DATA P.I.3 274+75.61
Δ = 2°-49'-16" Lt.
D = 0°-16'
R = 21,485.92'
T = 529.17'
L = 1058.12'
E = 6.52'

Road Closed Sign

BEGIN WORK
STA. 10+25

12+50

94°-54'-01"

N 54°-59'-14" E

FAY-I-0205

Sta 282+23.82 S.R.-1
Sta 20+00 Jenks Rd

P.C.3 269+46.44

P.I.3 274+75.61

P.T.3 280+04.56

END WORK
STA. 30+75

Exist. Jenks Rd
Twp. Rd. 83

28+50

Road Closed Sign

END WORK
STA. 303+45

Jefferson Twp.
Jasper Twp.

Exist. B&O R.R.

℄ S.R.-1 315+75.50
℄ B&O R.R. 0+00

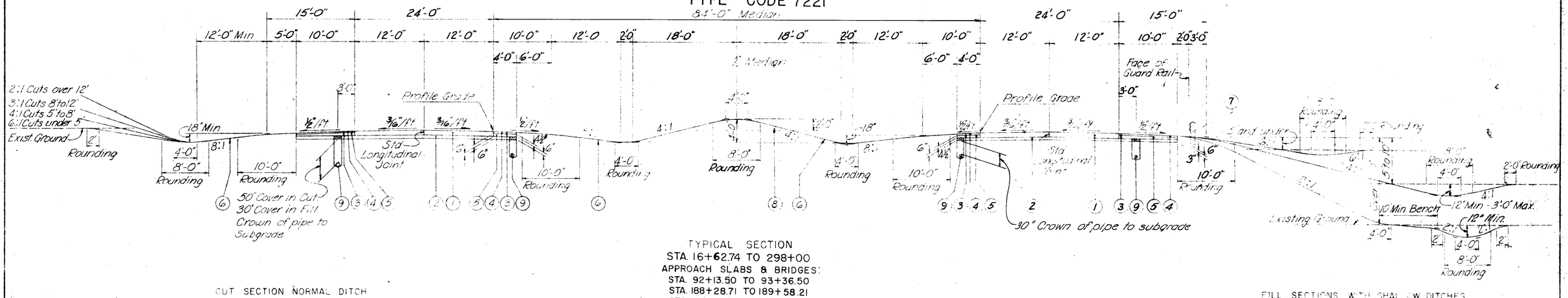
115°-00'-00"

Allen Ditch

Exist. Pearson Octa Road

Note: For "Maintenance of Traffic" plan see General Notes, sheet 8

SCHEMATIC PLAN



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

TYPICAL SECTIONS
TYPE T-71
TYPE CODE 7221

CUT SECTION NORMAL DITCH

TYPICAL SECTION
STA. 16+62.74 TO 298+00
APPROACH SLABS & BRIDGES:
STA. 92+13.50 TO 93+36.50
STA. 188+28.71 TO 189+58.21
STA. 198+62.51 TO 200+08.01

FILL SECTIONS WITH SHALLOW DITCHES

Note: Guard Rail to be used with slopes greater than 4:1

FILL SECTION WITH DEEP DITCHES

LEGEND

	①	Item T-71	9" Reinforced Portland Cement Concrete Pavement
	②	Item I-22	Subbase, Grading "A" or "B", as per plan. See General Notes on Sh. 6.
	③	Item T-31	Bituminous Surface Treatment using 0.008 Cu. Yd. of No. 6 Aggregate per Sq. Yd. and 0.25 Gal. of Bituminous Material per Sq. Yd. (See Note in Proposal)
*	④	Item B-21	3" Waterproofed Base Course (Type "A" T-35 Material may be used in construction of this course. See Note in Proposal)
	⑤	Item B-112	Porous Base Course (Thickness as shown)
	⑥	Item L-9	Seeding and Protecting.
	⑦	Item I-15	Guard Rail, Steel Beam Standard Type (deep).
	⑧	Item L-3	Placing Stockpiled Topsoil.
	⑨	Item I-1	6" Pipe, Class I-3. ▨ Remove subbase for width of Item I-1 trench and replace with either Class 3 backfill or with porous base material prior to placing the Item B-112 Base Course. Cost shall be included in the price bid per lin. ft. for Item I-1.

* Thickness shown is "designed" thickness as described in Section B-21.01

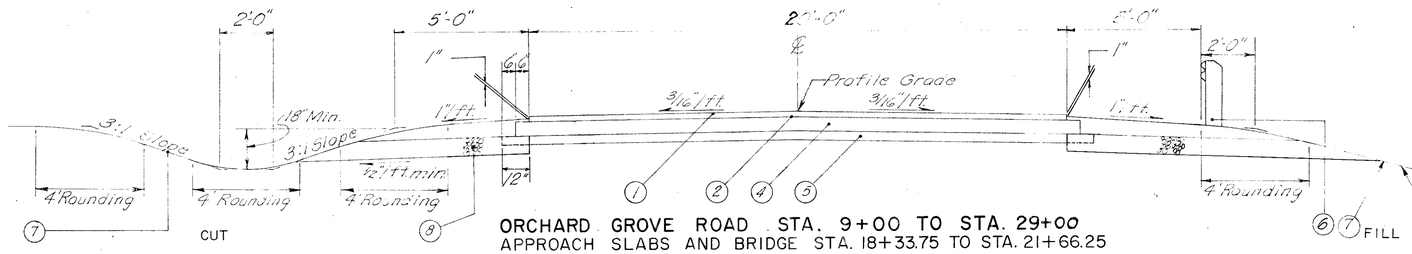
TYPICAL SECTIONS

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

4/162

GREENE & FAYETTE COUNTIES

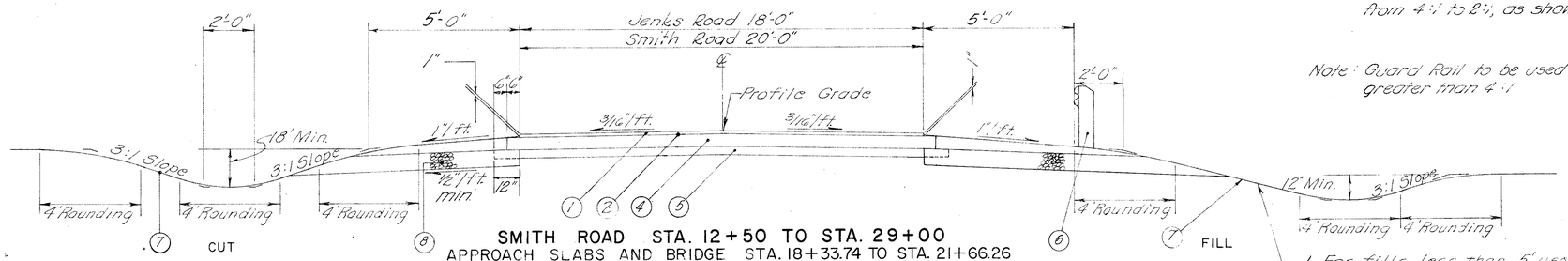
GRE. 1-1.08 FAY. 1-0.00



ORCHARD GROVE ROAD STA. 9+00 TO STA. 29+00
APPROACH SLABS AND BRIDGE STA. 18+33.75 TO STA. 21+66.25

1. For fills less than 5' use 4:1 slopes
2. For fills greater than 10' use 2:1 slopes.
3. For fills between 5' and 10' use variable slope from 4:1 to 2:1, as shown on cross sections.

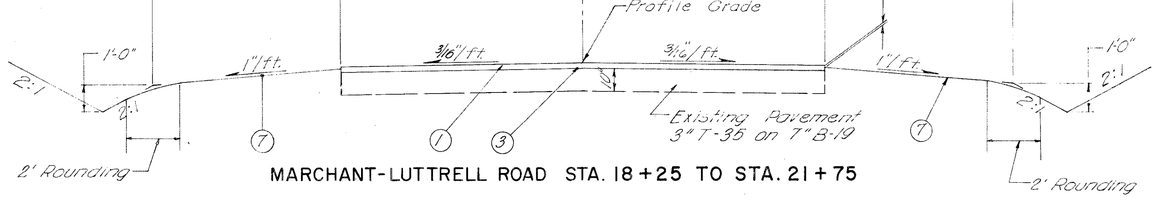
Note: Guard Rail to be used with slopes greater than 4:1



SMITH ROAD STA. 12+50 TO STA. 29+00
APPROACH SLABS AND BRIDGE STA. 18+33.74 TO STA. 21+66.26

JENKS ROAD STA. 10+75 TO STA. 30+25
APPROACH SLABS AND BRIDGE STA. 18+33.24 TO STA. 21+66.76

1. For fills less than 5' use 4:1 slopes
2. For fills greater than 10' use 2:1 slopes
3. For fills between 5' and 10' use variable slope from 4:1 to 2:1, as shown on cross sections.



MARCHANT-LUTTRELL ROAD STA. 18+25 TO STA. 21+75

*(1) Item T-35 2" Asphaltic Concrete Surface Course Type B.C.C. (85-100) (To be placed in Two 1" Courses)

(2) Item T-30 Bituminous Prime Coat: Sec. M-5.7, RT-2 or RT-3 applied at the rate of 0.40 gal. per sq. yd.

(3) Item T-30 Bituminous Tack Coat: Sec. M-5.5, MS-2 or RS-1; or Sec. M-5.2, RC-1 or RC-2, as per Sec. T-30.04, applied at the rate of 0.10 gal. per sq. yd.

(4) Item 3-19 6" Aggregate Base Course

(5) Item I-22 4" Subbase, Grading "A" or "B" as per plan. See General Note on Sheet 6

(6) Item I-15 Guard Rail, Steel Beam Standard Type (Deep)

(7) Item L-9 Seeding and Protecting

(8) Item I-9 Stone Underdrains No. 2

Note: For details not shown see Standard Drawings RI-1 (7-15-58) and T-35 (1-2-56)

* Thickness shown is "designed" thickness as described in Section T-35.01

GENERAL NOTES

DESIGN SPEED

The geometrics for this project have been planned for a design speed of 70 miles per hour.

FIELD OFFICE

The Contractor shall, in accordance with Sec. S-0.01 (b), provide for the exclusive use of the State's employees, a suitable field office having a mimimum of 500 sq. ft. of floor space. The Contractor shall have a telephone installed and maintained in this field office during the construction of this project. The Contractor shall also provide and install wiring and outlets suitable for connecting electric lights and office equipment in the field office and provide 110 volt alternating current to the office during the entire period of construction of this project.

UTILITY ADJUSTMENT

Any or 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. The Contractor shall notify, at least five days before breaking ground, all public service corporations having wires, poles, conduits, manholes, or other structures that may be affected by his operations, including all structures which are affected and not shown on these plans. The Contractor shall cooperate with the public service corporations or their agencies in carrying on their respective operations during the construction of this project.

PERMITS, LAWS AND REGULATIONS

The Contractor shall secure at his own expense all necessary permits from the municipal or other public authorities, shall give all notices required by law or municipal ordinances, and shall pay all fees and charges incident to the due and lawful prosecution of the work covered by this contract.

UTILITY OWNERSHIP

The Ohio Bell Telephone Company, Dayton, Ohio (Mr. H. F. Gear, 3233 Woodman Dr., Room 224)

The Dayton Power and Light Co., Dayton, Ohio

The County Engineer, Greene County, Xenia, Ohio (Mr. Frederick R. Lemcke)

The County Engineer, Fayette County, Washington Court House, Ohio (Mr. Charlie P. Wagner)

ELEVATION DATUM

All elevations are based on USGS datum.

REPLACEMENT

The Contractor shall replace at his own expense any item not specifically listed for removal that is damaged or destroyed by his operation.

CONSTRUCTION LAYOUT STAKES

See note in proposal describing the work included in this lump sum pay item.

ESTIMATED QUANTITIES

Specific locations and usage of estimated quantities set up on this plan to be used "as directed by the Engineer" shall be made a matter of record by incorporation into the final change order governing completion of this project.

FERTILIZER, SEEDING AND SODDING

Commercial fertilizer (12-12-12 Mix) applied at the rate of twenty (20) pounds per 1,000 square feet is to be used on all seeded and sodded areas. Sod is to be used around catch basins, structures, and ditches where necessary to prevent erosion as indicated in the plans and as directed by the Engineer.

SUBGRADE COMPACTION

The subgrade under the paved shoulders shall be compacted to a depth of 12" and is included in the quantities shown for Item E-1, "Compacted Subgrade".

SCARIFICATION OF EXISTING FLEXIBLE PAVEMENT

Within the limits of construction where the existing flexible pavement will have less than 6 inches of fill placed upon it, the pavement shall be thoroughly scarified for its full depth, mixed with sufficient soil and properly recompacted to insure the elimination of any planes of separation between it and the embankment placed thereon. Payment for scarification as described above shall be included in the unit price bid for Item E-1, Roadway Excavation.

MAILBOX TURNOUTS

The following quantities are included in the plans for construction of mailbox turnouts on Orchard Grove and Smith Roads. Where feasible mailbox turnouts will be combined with drives and the quantities adjusted by the Engineer.

Item T-35 Asphaltic Concrete Surface Course, Type B or C (85-100) 6 C.Y.

Item B-19 Aggregate Base Course 13 C.Y.

For details see Standard Drawing DR-1. Quantities to Sheet 10

REMOVAL OF TREES AND STUMPS

All trees and stumps lying within the construction limits of this project shall be removed under the lump sum price bid for Item E-9, Removal of Trees and Stumps.

The following is an approximate estimate of the number of trees and stumps to be removed:

Sizes	No. of Trees and Stumps
12" - 18"	48
18" - 24"	33
24" - 30"	32
30" - 36"	18
36" - 42"	11
42" - 48"	7
Over 48"	3

The above estimate is approximate and the State of Ohio reserves the right to order the removal of additional trees and stumps outside of the limits of construction but within the right-of-way and/or easement lines. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item E-9, Removal of Trees and Stumps.

ROUNDED CORNERS ON CROSS SECTIONS

The rounded corners shown on Standard Drawing R1-1, as modified by the typical sections, apply to all cross sections, even though otherwise shown on these plans.

GENERAL NOTES

COMPACTION USING HEAVY PNEUMATIC TIRED ROLLER

An estimated quantity for this item has been included in the General Summary, for use as directed by the Engineer, in proof rolling of all subgrade, except for areas where rock or shale is encountered. The pneumatic tired roller shall be operated at 50 ton gross load for the final proof rolling. Quantities to Sheet *10*.

Item S.S. CE-101.04 Compaction Using Heavy Pneumatic Tired Roller 120 Hours

DUST CONTROL

A quantity of calcium chloride and water is provided for use for dust control as directed by the Engineer. Quantities to Sheet *10*.

Item M-10 Calcium Chloride for Dust Control 25 ton

Item E-11 Water for Dust Control 200 M Gal.

MAINTENANCE OF TRAFFIC ITEMS

The following estimated quantities have been included in the General Summary for use in maintaining ingress and egress, and local traffic as directed by the Engineer. Quantities to Sheet *10*.

Item M-10 Calcium Chloride for Maintaining Traffic 10 ton

Item T-10 Traffic Compacted Surface Course 500 c.y.

Item T-35 Asphaltic Concrete Surface Course or Bit. Pre-mixed Surface for Maintaining Traffic 25 c.y.

FEDERAL AID CONSTRUCTION IDENTIFICATION SIGNS

The Contractor shall furnish, erect, maintain, and subsequently remove Federal Aid Construction Identification Signs at each of the following locations::

1,000 feet right and left of SR 1 centerline on Orchard Grove Road

400 feet right and left of SR 1 centerline on Marchant-Luttrell Road

Sign details shall be as specified on Standard Drawing FAC1-1 Code N-43(2)144 and the signs shall be erected in accordance with Standard Drawing FAC1-2. Additional requirements shall be in accordance with notes in the Proposal.

ITEM T-30 TACK COAT

Although this item has been estimated for use on the entire existing bituminous pavement area to be resurfaced, it shall be used only on dry or checked pavement areas where specifically directed by the Engineer.

Pay quantities for this item shall be determined by final measurement.

PAVEMENT REMOVAL AND DISPOSAL

Removal and disposal of existing non-rigid pavement unless otherwise indicated on the plans shall be measured and paid for as Item E-1, Roadway Excavation.

COOPERATION NOTE

The Contractor shall note that there is to be work performed by others on and adjacent to this project which is not a part of this plan. The Contractor shall give them and their representative his fullest cooperation in connection with this construction.

SEEDING AND PROTECTING

Quantities for seeding are calculated for the soil areas between the right-of-way fence lines as shown on the Right of Way plans, between the right-of-way lines in unfenced areas, and within the work limits for areas outside the fence line or right-of-way line covered by temporary, drainage or channel easements.

ITEM I-22 SUB-BASE, GRADING "A" OR "B", AS PER PLAN

The material furnished for this item shall meet the requirements of Grading "A" or "B" of Sec. I-22.02 except that, for either grading, no more that 10 percent of the material shall pass a No. 200 sieve after all operations of placement and compaction have been completed.

DRIVEWAYS AND MAILBOX TURNOUTS

Residence drive aprons and mailbox turnouts shall be paved with two 1" courses of T-35 type "C" asphaltic concrete on 5" of B-19. Residence driveway pavement beyond the apron shall consist of 8" of B-19. Field drives shall be paved with 6" of B-19. All driveways shall be Type 2 as shown on Standard Construction Drawing DR-1.

ITEM L-3 PLACING STOCKPILED TOPSOIL, AS PER PLAN

On this project, the method of measurement for this item shall be in cubic yards compacted in place in lieu of square yards as specified in Sec. L-3.10. Furnishing and placing of commercial fertilizer in conjunction with this item shall be in accordance with Item L-9 and payment therefor shall be at the unit price bid for Item L-9, Commercial Fertilizer. Except as noted above, all other requirements of this item shall be in accordance with Item L-3.

ITEM L-1, TOPSOIL STOCKPILED

The material to be stockpiled for placement under L-3 on this project shall be obtained under Item L-1 from areas within the limits of the proposed right-of-way as tabulated on sheet *13*. No borrow item is anticipated for this purpose .

Provision of this separate L-1 item shall, in no way, be construed as a waiver of the provisions of Sec. E-1.03 (a) and sod and incidental topsoil removed elsewhere on this project shall be salvaged and used as described in Item E-1 with payment therefor included in the unit price bid for Roadway Excavation.

UNDERGROUND UTILITIES

The location of the underground utilities shown on the plans have been obtained by diligent field checks and searches of available records. It is believed that they are essentially correct, but the State of Ohio makes no guarantees as to their accuracy or completeness.

REMOVAL OF EXISTING PIPE

The removal of all existing pipe drains within the limits of proposed excavation items shall be included for payment in the unit prices bid for the respective excavation items, unless otherwise itemized in the plans.

PLUGGING PIPE

The upstream ends of all pipe or tile lines intercepted by earthwork operations and, where indicated, the ends of pipe lines to be abandoned in place, shall be effectively blocked and covered. Broken pieces and portions of pipe or tile shall be removed until a whole length is encountered which shall be blocked with concrete, flat stone or brick laid in mortar, or a precast clay or concrete stopper. Payment for the above work shall be included in the unit price bid for Item E-1, Roadway Excavation.

GENERAL NOTES

CONNECTIONS TO EXISTING PIPE

At places where the plans provide for proposed drainage pipe to be connected to existing pipes, it shall be the responsibility of the Contractor to locate the existing pipe both as to line and grade before he starts to lay the proposed pipe. The cost of this operation shall be included in the unit price bid for the pertinent pipe item.

FIELD DRAINS

All farm tiles which are encountered during construction shall be provided with unobstructed outlets under the direction of the Engineer. Existing collectors which are located below the roadway ditch elevations and which cross the roadway shall be replaced within the right-of-way limits by Item I-1, Class A-1 Pipe.

Existing collectors and isolated farm tiles which are encountered above the elevation of the roadway ditches shall be outletted into the roadway ditch. The optimum outlet elevation shall be, if possible, one foot above the flowline elevation of the ditch. Lateral tile fields which cross the roadway shall be intercepted by Item I-1, Class H-2 Pipe and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, type, size and grade of required replacements shall be determined by the Engineer during construction and payment shall be made on final measurements.

The following estimated quantities have been included in the General Summary sheet for the work noted above:

I-1	6" Pipe, Class A-1, Sec. M-6.6 (b) or M-6.8 (b)	500 l.f.
I-1	8" Pipe, Class A-1, Sec. M-6.6 (b) or M-6.8 (b)	500 l.f.
I-1	10" Pipe, Class A-1, Sec. M-6.6 (b) or M-6.8 (b)	500 l.f.
I-1	12" Pipe, Class A-1, Sec. M-6.6 (a) or M-6.8 (b)	200 l.f.
I-1	15" Pipe, Class A-1, Sec. M-6.6 (a) or M-6.8 (b)	200 l.f.
I-1	6" Pipe, Class H-2	100 l.f.
I-1	8" Pipe, Class H-2	100 l.f.
I-1	10" Pipe, Class H-2	100 l.f.
I-1	12" Pipe, Class H-2	100 l.f.
I-1	15" Pipe, Class H-2	100 l.f.
I-5	6" Pipe Specials, Class H-2	5 ea.
I-5	8" Pipe Specials, Class H-2	5 ea.
I-5	10" Pipe Specials, Class H-2	5 ea.
I-5	12" Pipe Specials, Class H-2	5 ea.
I-5	15" Pipe Specials, Class H-2	5 ea.
I-10	Dumped Rock Channel Protection	50 c.y.

PRIVATE SEWER TAPS

This plan makes no provision for connecting, nor shall the Engineer or Contractor connect, any existing or new private drainage to the new highway drainage system when such private drains carry effluent or drainage from leaching bed outlets, cellar drains, or sink drains, or polluted water of any kind. Connections may be made to the existing or new highway drainage system when the water carried to the project drainage system does not come within the category outlined above. Acceptable water includes flow from roof drains, field drains, and enclosed natural drainage sources which would reach the road through natural channels if such water was not conducted artificially. Existing sewer taps which do not carry acceptable water as defined above shall be plugged at the right-of-way line with class "E" concrete and payment included in the unit price bid for "Item E-1, Roadway Excavation."

ITEM I-9 STONE UNDERDRAINS

Stone underdrains shall be placed at fifty (50) foot intervals (25 ft. alternate spacing) on each side of centerline, on the cross-road reconstruction.

In the final finishing of slopes and ditches, care shall be exercised to assure that the ends of I-9 underdrains will be left free of earth cover which would impede free drainage. The actual area of the outcrop of the I-9 Underdrains shall not be seeded.

SPECIAL DITCHES

For special ditch grades, see cross sections.

REINFORCED PIPE ENDS

Reinforced ends will be required for the exposed ends of all corrugated metal Class F-1 Pipe (Helical Pipe is not permitted) used for all Driveways and Underdrain Outlets if the exposed pipe ends are unprotected by Headwalls, Catch Basins or Manholes.

CATCH BASINS

It shall be the Contractor's responsibility to construct the catch basins so that they are oriented correctly and conform in elevation with the ditches they are intended to serve.

Stationing and distance right or left is to the center of the catch basin.

All 2-2-B catch basins shown of these plans shall be modified using a 3/8" solid steel plate in place of the grate.

EROSION CONTROL

Items I-10 and L-10 are provided in these plans for erosion control. Rock of a stable nature will not be removed in order to place any of these items. The Engineer shall check and non-perform quantities or adjust locations and quantities for these items where indicated by field conditions during construction.

MAINTENANCE OF SEWER FLOW

The Contractor shall conduct his operations so as to maintain at all times sewer flows through existing facilities to remain in place and through existing facilities to be replaced until new facilities are completed and placed in use.

Payment for any additional costs involved in maintaining these flows by pumping or by any other means approved by the Engineer shall be included in the unit price for the respective pipe items.

ITEM SPECIAL, DRILLED WELL ABANDONED

The existing concrete or stone slab well cover shall be removed and disposed of. The pump and all other salvageable parts shall be carefully removed and stored on the abutting property. The casing shall be cut off at least two feet below the proposed finished grade outside proposed pavement areas or at least two feet below the proposed subgrade elevation inside proposed pavement areas and capped with Class "E" Concrete or a standard threaded pipe cap.

The unit price bid for each "Drilled Well Abandoned" shall include payment for all labor, tools, materials and incidentals necessary to complete this item.

GENERAL NOTES

CENTERLINE REFERENCE MONUMENTS, AS PER PLAN

Where monuments are located outside the pavement area, they shall be constructed of Class "C" concrete, cast-in-place in a circular hole eight (8) inches in diameter and forty-four (44) inches in depth. Top of concrete shall be finished at a depth of two (2) inches below ground level and the upper six (6) inch portion of the concrete shall be formed. A reference pin will be furnished to the Contractor to be embedded in the wet concrete as directed by the Engineer to mark the centerline and station.

Where the monuments are located within the pavement areas, they should be standard monument assemblies as per Standard Drawing RI-1.

SEEDING FORMULA

The following seed mixture shall, in lieu of the mixture listed in Section L-9.11, be used throughout the limits of this project.

60% Kentucky 31 Fescue
20% Kentucky Bluegrass
15% Creeping Red Fescue
5% Red Top

GUARD RAIL FLARES

Where proposed guard rail flares are constructed of rail elements which have not been fabricated exactly to fit the curvature shown on the plans, the two end posts of each flared section shall be encased in a minimum 4 inch thickness of Class "E" concrete for the full depth of post below the ground line. Payment for encasement, if required, shall be included in the unit price bid for the guard rail.

SEQUENCE OF CONSTRUCTION OPERATIONS:

Deep underdrains shall be installed and backfilled to subgrade elevation, immediately prior to construction of the subbase, except that, where subsurface conditions are such that improvement of an unstable subgrade can be accomplished through the drying action of deep underdrains, the project Engineer may authorize or require the contractor to delay the construction of the subbase as necessary.

The subbase then shall be constructed under the concrete pavement area and extended out to cover the porous backfill for the deep underdrain.

Pavement shall then be constructed.

After the subbase in the shoulder area is in place and compacted as specified, and immediately prior to placing the porous base course, the material located above and within the underdrain trench shall be removed to the depth necessary to expose clean Class 3 backfill. The trench so excavated shall be backfilled with new Class 3 backfill material, or if the contractor so elects, he may substitute material meeting the requirements of Item B-112, Porous Base Course. If, after testing the subbase material for composition in the shoulder area, it is found that removal of contaminated material from the surface is necessary, such material shall be replaced with material meeting the requirements of Item B-112, Porous Base Course at the expense of the Contractor.

Porous base course shall then be constructed and construction of the waterproofed aggregate course shall follow immediately.

TRAFFIC NOTES

ORCHARD GROVE ROAD

Two way traffic shall be maintained at all times by using S-15 Temporary Run-around Road, using traffic compacted surface course, or the existing or proposed pavement.

POWERS ROAD

This road shall remain open to traffic across the proposed expressway until the Smith Road grade separation is completed and opened to traffic, then Powers Road may be closed. The cul-de-sacs shall be constructed after the reopening of Smith Road.

SMITH ROAD

Smith Road may be closed to traffic for a maximum period of 9 consecutive months, during the construction of the grade separation over SR 1. During this time traffic will be detoured across the freeway at Powers Road.

MARCHANT-LUTTRELL ROAD

Two way traffic shall be maintained on this road during construction of the grade separation carrying SR 1 over this cross road.

After the completion of the grade separation, the plans require the resurfacing of Marchant-Luttrell Road within certain limits. During this operation one-way traffic will be permitted for minimum periods of time consistent with the requirements of the specifications for protection of completed asphaltic concrete courses.

JENKS ROAD

Jenks Road may be closed to through traffic within the limits of construction when necessary for the construction of the grade separation and when directed by the Engineer. The road shall not be closed to traffic for a period exceeding 9 consecutive months.

PROTECTION OF TRAFFIC

The contractor shall safeguard the traveling public on Marchant-Luttrell Road by providing platforms, nets, or other suitable protection above the traveled lanes. Payment for this protection shall be included in the lump sum price bid for "Maintaining Traffic."

PAYMENT FOR TEMPORARY ROADWAYS

Payment for construction, maintenance, and subsequent removal, whereever required, of temporary roadways not separately itemized under the S-15 items, except for furnishing and placing of Items M-10, S-15, and "T-35 for Maintaining Traffic", shall be included in the lump sum price bid for "Maintaining Traffic".

GRADE FOR ITEM S-15 RUN-AROUND ROAD

Unless otherwise shown on the plan and profile sheets, the grade of Item S-15 Run-around Roads shall generally be the same as that of the existing pavement.

EROSION CONTROL AT BRIDGES

Sod gutters shall be provided at ends of bridges as per detail on sheet No 63 where called for on the plans.

EROSION CONTROL AT END WALLS AND CATCH BASINS

A strip of sod 18" wide shall be placed along the back and both ends of each endwall and each standard No 8 catch basin to prevent erosion. Sodding thus used shall be included for payment in the unit price bid for "Item L-10, Sodding."

FLARED APPROACH SLABS

Place additional A-bars in flared areas by maintaining the standard spacing along the wide end of the slab and fanning the bars in toward the bridge as directed by the Engineer.

GENERAL NOTES

LIST OF RUN-AROUND ROADS

Item S-15 Run-around Road - Orchard Grove Road - Station 7+50 to Station 30+50.

LIGHTS, SIGNS AND BARRICADES

The contractor shall, in addition to the general requirements of Sec. G-7.07, on this project perform the following:

(a) Provide, erect, and maintain moveable gates on intersecting roads closed to traffic at all points where local traffic movement terminates.

(b) Provide, erect, and maintain lights, signs, and barricades at the work limits on all intersecting roads which remain open to traffic.

(c) Provide, erect and maintain standard 40" x 24" size "Road Closed" signs, sign supports and lights at the following locations during periods in which the affected roads are closed to traffic:

1. Smith Road just northwest of the Zimmerman Road intersection.
2. Smith Road just southeast of the Hargrove Road intersection.
3. Jenks Road just northwest of the Pearson-Octa Road.
4. Jenks Road just southeast of Edgefield Road.

Lights, barricades, and danger and warning signs shall be provided at locations shown above in accordance with Sec. G-7.07. Barricades and gates shall be as detailed on Standard Construction Drawing No. G-7.07. Sign supports and lights for "Road Closed" signs shall be as detailed in the "Ohio Manual of Uniform Traffic Control Devices."

Payment for providing, erecting, maintaining and removing barricades gates, lights, signs, and sign supports shall be included in the lump sum price bid for "Maintaining Traffic."

RESTORING RUN-AROUND AREAS

When temporary run-around roads are no longer needed, the areas occupied by such roads shall be restored substantially to their original condition, as governed by the cross-sections, and as directed by the Engineer. However, if some alternate method of rehabilitating such areas is agreed upon between the property owner and the contractor, such agreement shall be submitted in writing to the Engineer for approval before it becomes effective.

TEMPORARY CULVERTS

Payment for construction, maintenance, and subsequent removal of temporary extensions of existing or proposed culverts and sewers required for construction of the Item S-15 Run-around shall be included in the lump sum price bid for the run-around.

GENERAL SUMMARY

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Sheet Number: 5	6	7	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	42	45	48	51	54	57	62	145	ITEM	QUANTITY: 100% State Participation	QUANTITY: State & Federal Participation	QUANTITY: Total	UNIT	DESCRIPTION
																																												ROADWAY
				103,536																																			E-1		103,536	103,536	Cu.Yd.	Roadway Excavation, Method "B", as per plan.
			236,037				498												498												3815		3038		3333				E-1		247,219	247,219	Sq.Yd.	Compacted Subgrade
				1,229,288																																			E-4		1,229,288	1,229,288	Cu.Yd.	Borrow
	120																																						SS.CE-101.04		120	120	Hours	Compaction Using Heavy Pneumatic Tired Roller
Lump																																							E-9		Lump	Lump	Lump	Removal of Trees and Stumps
				7,045																																			E-11		7,045	7,045	M.Gal.	Water
	200																																						E-11		200	200	M.Gal.	Water for Dust Control
			12																																				I-8		12	12	Each	Monument Assemblies, Standard
			34																																				I-8		34	34	Each	Centerline Reference Monuments, as per plan
							275					900		275						1526	2097.75	395						275			2437.5	200	1750		1900				I-15	1275	11,256.25	12,531.25	Lin.Ft.	Guard Rail, Steel Beam Standard Type (deep)
												300								300	300																		I-15	900		900	Lin.Ft.	Guard Rail, Steel Beam Barrier Type (deep)
				21.32																																			I-125		21.32	21.32	Miles	4" Edge Lines
				4.00																																			I-125		4.00	4.00	Miles	6" Lane Lines
			276																																				I-127		276	276	Ea.	Delineators, Type A-1, Post Mounted
																																						Lump	E-10		Lump	Lump	Lump	Removal of One Frame Barn and One Frame Shed, Parcel 600 WL.
																																						Lump	E-10		Lump	Lump	Lump	Removal of Double Corncrib, Parcel 618 WL.
				30,142																																			L-1		30,142	30,142	Cu.Yds.	Topsoil Stockpiled
			25,118																																				L-3		25,118	25,118	Cu.Yd.	Placing Stockpiled Topsoil, as per plan
				790,880																																			L-9		790,880	790,880	Sq.Yd.	Seeding and Protecting, as per plan
				71.94																																			L-9		71.94	71.94	Tons	Commercial Fertilizer (12-12-12)
										729															828	1093	1068	1073	2136	298						444	37		L-10		7,706	7,706	Sq.Yd.	Sodding
																															275		177		250				L-10		702	702	Sq.Yd.	Sodding for Special Berm & Slope Protection, as per plan
	25																																						M-10		25	25	Tons	Calcium Chloride for Dust Control
																															Lump								S-15		Lump	Lump	Lump	Temporary Runaround Road, as per plan.
	500																														1737								S-15		2,237	2,237	Cu.Yd.	Furnishing and Placing Aggregate for Traffic Bound Surface Course
	10																														35								S-15		45	45	Tons	Furnishing and Applying Calcium Chloride
	25																																						T-35		25	25	Cu.Yd.	Asphaltic Concrete Surface Course or an Approved Premixed Bituminous Surface Course for Maintaining Traffic
																																							Special		1	1	Ea.	Drilled Well Abandoned
																																				8,375			L-120		8,375	8,375	Sq.Yd.	Jute Matting
																																												PAVEMENT
13																															770	296	590	4	652				B-19		2,325	2,325	Cu.Yd.	Aggregate Base Course
			7,247				42												42																				B-21		7,331	7,331	Cu.Yd.	Waterproofed Aggregate Base Course, as per plan
			11,305				83												83																				B-112		11,471	11,471	Cu.Yd.	Porous Base Course
			800																												154		154		154				I-7		1,262	1,262	Sq.Yd.	Reinforced Concrete Approach Slabs (T=13")
			39,340				83												83												470	202	383		415				I-22		40,976	40,976	Cu.Yd.	Subbase, Grading "A" or "B", as per plan
																															1483	696	1173		1292				T-30		4,644	4,644	Gal.	Bituminous Prime Coat: Sec. M-5.7, RT-2 or RT-3
																															18		26	70	18				T-30		132	132	Gal.	Bituminous Tack Coat: Sec. M-5.5, MS-2 or RS-1, or Sec. M-5.2, RC-1 or RC-2, as per Sec. T-30.02
			21,740				125												125																				T-31		21,990	21,990	Gal.	Bituminous Surface Treatment - Bituminous Material, as per plan.
			696				4												4																				T-31		704	704	Cu.Yd.	Bituminous Surface Treatment - No6 Aggregate, as per plan
6																															220	98	190	39	200				T-35		753	753	Cu.Yd.	Asphaltic Concrete Surface Course, Type B or C (85-100)
			147,943																																				T-71		147,943	147,943	Sq.Yd.	9" Reinforced Portland Cement Concrete Pavement

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GENERAL SUMMARY

TYPE CODE 7221

GREENE & FAYETTE COUNTIES

GRE. 1 - 1.08 FAY. 1 - 0.00

SHEET NUMBER	ITEM	QUANTITY 100% STATE PARTICIPATION	QUANTITY STATE & FEDERAL PARTICIPATION	QUANTITY TOTAL	UNIT	DESCRIPTION
						DRAINAGE
500 40 40 104 145 152	I-1		981	981	Lin.Ft.	6" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
500 575 308 608 284	I-1		2,275	2,275	Lin.Ft.	8" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
500 303 336	I-1		1,139	1,139	Lin.Ft.	10" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
200 234 93 119 91 117 210 92 98 214 126 252 127	I-1		1,973	1,973	Lin.Ft.	12" Pipe, Class A-1, Sec. M-6.6(a) or M-6.8(b)
200 115 236 116 86 95 120 169	I-1		1,137	1,137	Lin.Ft.	15" Pipe, Class A-1, Sec. M-6.6(a) or M-6.8(b)
148	I-1		143	148	Lin.Ft.	15" Pipe, Class A-1, Sec. M-6.6(d)
295	I-1		295	295	Lin.Ft.	15" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
93 115 116 80 84	I-1		487	487	Lin.Ft.	18" Pipe, Class A-1, Sec. M-6.6(a) or M-6.8(b)
300 308	I-1		608	608	Lin.Ft.	21" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
290 96	I-1		386	386	Lin.Ft.	24" Pipe, Class A-1, Sec. M-6.6(b) or M-6.8(b)
126	I-1		126	126	Lin.Ft.	36" Pipe, Class A-1, Sec. M-6.6(d) or M-6.4(d)
130	I-1		130	130	Lin.Ft.	42" Pipe, Class A-1, Sec. M-6.6(d)
366	I-1		366	366	Lin.Ft.	48" Pipe, Class A-1, Sec. M-6.6(a)
140	I-1		140	140	Lin.Ft.	48" Pipe, Class A-1, Sec. M-6.6(d)
384	I-1		384	384	Lin.Ft.	54" Pipe, Class A-1, Sec. M-6.6(a)
132	I-1		132	132	Lin.Ft.	54" Pipe, Class A-1, Sec. M-6.6(d)
55 38 55	I-1		148	148	Lin.Ft.	12" Pipe, Class B-1
38 38 10 76 38 76 447 76 38 38 38 38 10 508 38 38 38 76 38 76 38	I-1		1,811	1,811	Lin.Ft.	12" Pipe, Class E-1
38	I-1		38	38	Lin.Ft.	15" Pipe, Class E-1
400 500	I-1		900	900	Lin.Ft.	18" Pipe, Class E-1
20 20 40 90 40 80 20 70 30 70 20 20 30 30 40 70 20 40 120 40 60 40	I-1		1,010	1,010	Lin.Ft.	6" Pipe, Class F-1
10 20 20 20 20 30 20 40 10 20 30 30 20 70 20 50 10 20 40 30 20	I-1		550	550	Lin.Ft.	8" Pipe, Class F-1
20 10 10 10	I-1		50	50	Lin.Ft.	10" Pipe, Class F-1
10 10 66 150 200 140	I-1		576	576	Lin.Ft.	12" Pipe, Class F-1
60	I-1		60	60	Lin.Ft.	15" Pipe, Class F-1
10 10 10	I-1		30	30	Lin.Ft.	18" Pipe, Class F-1
250	I-1		250	250	Lin.Ft.	76" x 48" Pipe, Class G-1, Sec. M-6.7(a)
100 210 116 255	I-1		681	681	Lin.Ft.	6" Pipe, Class H-2
100 478 96 386 170	I-1		1,230	1,230	Lin.Ft.	8" Pipe, Class H-2
100	I-1		100	100	Lin.Ft.	10" Pipe, Class H-2
100 240 803 20	I-1		1,163	1,163	Lin.Ft.	12" Pipe, Class H-2
100 451 159 46 55 195	I-1		1,012	1,012	Lin.Ft.	15" Pipe, Class H-2
28	I-1		28	28	Lin.Ft.	24" Pipe, Class H-2
3020 4038 4174 4908 4800 4897 4038 4678 5018 4057 4826 4800 4944 4920 4920 4066 3632 5022 4814 4800 4892 4999 4927 4103 4808 40	I-1		114,141	114,141	Lin.Ft.	6" Pipe, Class I-3
0.3 0.3 0.5 0.6 0.5 0.5 0.5 0.3 0.5 0.2 0.3 0.3 0.8 0.5 0.5 0.2 0.2 0.5 0.2 0.5 0.2 143.6	I-2		152.0	152.0	Cu.Yd.	Masonry
2 2 1 3 4	I-5		12	12	Ea.	6" Pipe Specials, Class A-1, Sec. M-6.6(b) or M-6.8(b)
5 1 1	I-5		4	4	Ea.	12" Pipe Specials, Class F-1,
5 2 1 2 1	I-5		7	7	Ea.	6" Pipe Specials, Class H-2
5 1	I-5		11	11	Ea.	8" Pipe Specials, Class H-2
5	I-5		6	6	Ea.	10" Pipe Specials, Class H-2
5 1 1 3	I-5		8	8	Ea.	12" Pipe Specials, Class H-2
5 1 1 2	I-5		12	12	Ea.	15" Pipe Specials, Class H-2
2 2 4 6 4 7 4 8 3 4 4 4 4 10 11 2 4 8 4 4 2	I-5		101	101	Ea.	6" Pipe Specials, Class I-3
1	I-5		1	1	Ea.	24" Pipe Specials, Class H-2

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GENERAL SUMMARY

TYPE CODE 7221

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

SHEET NUMBER	ITEM	QUANTITY 100% STATE	QUANTITY STATE & FEDERAL PARTICIPATION	QUANTITY TOTAL	UNIT	DESCRIPTION
						DRAINAGE (Continued)
16: 2; 17: 2; 20: 1; 23: 2; 24: 2; 25: 4; 26: 4; 32: 2; 33: 2; 36: 2; 38: 1; 54: 2	I-8		24	24	Ea.	Standard Nº2-2-B Catch Basins, Mod. as per plan
15: 2; 16: 3; 17: 3; 18: 4; 20: 2; 21: 4; 22: 4; 23: 4; 24: 2; 25: 4; 27: 2; 28: 2; 29: 3; 30: 6; 31: 2; 32: 4; 33: 2; 35: 2; 36: 4; 37: 2; 38: 4; 39: 2	I-8		67	67	Ea.	Standard Nº8 Catch Basins
42: 522; 48: 414; 54: 468	I-9		1,404	1,404	Lin.Ft.	Stone Underdrains, Nº2
7: 50; 16: 23; 17: 23; 18: 2; 19: 3; 20: 23; 21: 4; 22: 20; 23: 4; 24: 24; 25: 2; 27: 3; 28: 4; 29: 13; 30: 21; 31: 3; 32: 2; 33: 1; 35: 11; 36: 24; 37: 16; 38: 17; 39: 1; 40: 1; 42: 1; 57: 103	I-10		399	399	Cu.Yd.	Dumped Rock Channel Protection
17: 1	I-16		1	1	Ea.	Inlets Abandoned
17: Lump; 40: Lump	S-24		Lump	Lump	Lump	Removal of Existing Structures
						STRUCTURES OVER 20 FT.
						GRE-1-0148 For Quantities See Sheet 109
						GRE-1-0252 " " " " 116
						GRE-1-0297 " " " " 121
						FAY-1-0028 " " " " 128
						FAY-1-0047 " " " " 133
						FAY-1-0205 " " " " 138
Lump	Lump	Lump	Lump	Lump	Lump	Construction Layout Stakes

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GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

MAIN LINE PAVEMENT AND GRADING QUANTITIES

ITEM	DESCRIPTION	UNIT	PER LIN. FT. - FACTOR	Begin Project Sta 16+62.74 to Sta 92+13.50 = 7550.76'	Sta 92+13.50 to Sta 93+36.50 Appr. Slabs & Bridge 47.50' for Paving	Sta 93+36.50 to Sta 188+28.71 = 94.92.21'	Sta 188+28.71 to Sta 189+58.21 Appr. Slabs & Bridge 47.50' Paving	Sta 189+58.21 to Sta 198+62.51 = 904.30'	Sta 198+62.51 to Sta 200+08.01 Appr. Slabs & Bridge 47.50' Paving	Sta 200+08.01 to Sta 298+00 End of Project = 979.99'	Total Carried to General Summary
E-1	Compacted Subgrade	S.Y.	76 ÷ 9 8.4444	64,353.08	401.11	80,144.11	401.11	7,648.64	401.11	82,687.92	236,037
I-7	Approach Slabs, T=13"	S.Y.	25×24÷9×4	—	266.67	—	266.67	—	266.67	—	800
I-22	Subbase, "A" or "B"	C.Y.	76×5 ÷ 27 = 1.4074074	10,725.51	66.85	13,357.35	66.85	1,274.77	66.85	13,781.32	39,340
B-112	Porous Base Course	C.Y.	$2\times\frac{(4\times.44+10\times.37)}{27}$ = 0.404444	3,082.17	19.21	3,838.48	19.21	366.33	19.21	3,960.32	11,305
B-21	Waterproof Aggregate Base Course	C.Y.	$2\times\frac{(4\times.25+10\times.25)}{27}$ = 0.2592592	1,975.75	12.31	2,460.56	12.31	234.83	12.31	2,538.66	7,247
T-31	Surface Treatment, Bituminous Material	Gals.	.25×28÷9 = .77777	5,927.26	36.94	7,381.69	36.94	704.48	36.94	7,615.99	21,740
T-31	Surface Treatment, Aggregate	C.Y.	.008×28÷9 = .0248889	189.67	1.18	236.21	1.18	22.54	1.18	243.71	696
T-71	9" R.C.P. Concrete Pavement	S.Y.	48 ÷ 9 = 5.3333	40,270.72	—	50,617.33	—	4,830.72	—	52,223.95	147,943
L-3	Placing Stockpiled Topsoil	C.Y.	$\frac{4+20}{2}\times2\div27$ = 0.88888	6,774.0	1.33	8,436.2	133	805.1	133	8,704.0	25,118

EARTHWORK QUANTITIES

LINE SHEET FROM	LINE SHEET TO	EXCAVATION C.Y.	EMBANKMENT C.Y.	EMBANKMENT +15% C.Y.
12	24	30,338	686	789
24	34	7,079	4,707	5,413
34	44	1,846	34,093	39,207
44	56	3,069	39,846	45,823
56	68	3,199	74,184	85,312
68	80	5,511	49,851	57,329
80	90	8,920	23,232	26,717
90	102	7,095	51,465	59,185
102	114	7,000	24,575	28,261
114	124	18,691	4,633	5,328
124	136	2,021	35,632	40,977
136	148	507	70,008	80,509
148	160	833	67,855	78,033
160	172	3,106	43,984	50,582
172	184	5,820	25,128	28,897
184	194	4,406	52,797	60,717
194	204	2,973	103,555	119,089
204	216	645	62,906	73,342
216	228	1,250	48,306	55,552
228	240	1,178	66,507	76,483
240	252	2,029	65,122	74,890
252	264	1,519	63,718	73,276
264	276	1,099	34,315	39,462
276	286	1,066	23,222	26,705
286	298	6,432	0	0
298	308	1,704	0	0
Orchard Grove Road		1,189	47,369	54,474
Powers Road		592	172	198
Smith Road		1,513	21,229	24,413
Marchant-Luttrell Road		0	75	86
Jenks Road		1,008	44,870	51,601
Sub Total		133,678	1,184,042	1,361,648

CHANNEL EARTHWORK QUANTITIES

West Branch Creek	1,360 ⊕	1,443	1,659
Grassy Branch Creek	2,400 ⊕	1,880	2,162
Sub Total	3,760	3,323	3,821
Grand Total	137,438	1,187,365	1,365,469

⊕ Carried to Bridge Sheet No. 116
⊕ Carried to Bridge Sheet No. 128

ITEM I-8 MONUMENTS

SURVEY	STATIONS	MONUMENT ASSEMBLIES	CENTERLINE REFERENCE MONUMENT AS PER PLAN
℄ S.R.1	16+62.74, 25+00, 35+00, PC @ 44+62.28, PI @ 50+00, PT. @ 55+37.37, 62+50, 70+00, 77+00, 84+81.56, 90+00, 100+00, 110+00, 120+00, 130+00, 140+00, PC @ 145+36.39, PI @ 151+88.03, PT @ 158+29.06, 167+00, 176+00, 184+00, 192+00, 200+00, 210+00, 220+00, 230+00, 240+00, 250+00, 260+00, PC @ 269+46.44, PI @ 274+75.61, PT @ 280+04.56 & 290+00		34
℄ Orchard Grove Road	9+00, 18+00, 22+00 & 29+00	4	
℄ Smith Road	9+00, 18+00, 22+00 & 29+00	4	
℄ Jenks Road	11+00, 18+00, 22+00 & 30+00	4	
Total Carried to General Summary		12	34

I-127 DELINEATORS

Spacing Ft.	Side	Station From	Station To	A-1 Post Mtd	A-1 Brkt Mtd	
200'	R&L	17+00	91+00	76		
	R&L	93+00			2 ⊗	Carried to Bridge Sheet No. 116
200'	R&L	95+00	187+00	94		
	R&L	189+00			2 ⊗	Carried to Bridge Sheet No. 128
200'	R&L	191+00	197+00	8		
	R&L	199+00			2 ⊗	Carried to Bridge Sheet No. 133
200'	R&L	201+00	297+00	98		
Totals to General Summary				276		

L-1 TOPSOIL STOCKPILED

Station From	Station To	Quantity C.Y.
16+62.74	23+00	4,710
30+00	32+00	1,160
40+00 L	92+00 L	6,720
76+00 R	92+00 R	1,950
94+00 R	116+00 R	3,880
116+00	120+00	2,040
127+00 L	133+00 L	460
156+00 L	188+00 L	2,530
190+00 L	204+00 L	520
191+00 R	205+00 R	410
262+00 R	298+00 R	1,600
251+00 L	265+00 L	210
284+00 L	298+00 L	620
179+00 R	188+00 R	330
23+00 L	30+00 L	2,540
23+00 R	24+00 R	520
Total		30,200

Note: The quantity of topsoil is calculated from cut areas using the depth of topsoil as shown on the soil profile.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

CALCULATION OF QUANTITIES

PLACING STOCKPILED TOPSOIL, ITEM L-3		
From Main Line Grading Quantities	25,118	C.Y.
TOPSOIL STOCKPILED, ITEM L-1		
Item L-3 plus 20% =	30,142	C.Y.
EARTHWORK		
Embankment (from Cross Sections)	1,187,365	C.Y.
Item L-3	25,118	C.Y.
Required Embankment	1,162,247	C.Y.
Excavation (from Cross Sections)	137,438	C.Y.
Item L-1	30,142	C.Y.
Available Excavation	107,296	C.Y.
Required Embankment 1,162,247 C.Y. plus 15%	1,336,584	C.Y.
Available Excavation	107,296	C.Y.
E-4 Borrow	1,229,288	C.Y.
Roadway Excavation (from Cross Sections)	133,678	C.Y.
Item L-1	30,142	C.Y.
E-1 · Roadway Excavation, Method "B"	103,536	C.Y.
WATER, ITEM E-11		
Embankment: 1,365,469 C.Y. x .005 =	6,828	M. Gal.
I-22 (from General Summary): 40,976 C.Y. x .005 =	205	M. Gal.
B-19 (from General Summary): 2,325 C.Y. x .005 =	12	M. Gal.
Total Water	7,045	M. Gal.
SEEDING AND PROTECTING, ITEM L-9		
From Cross Sections	790,880	S.Y.
COMMERCIAL FERTILIZER, ITEM L-9		
Seeding & Protecting: 790,880 S.Y. x .00009 =	71.18	Tons
L-10 (from General Summary): 8,477 S.Y. x .00009 =	0.76	Tons
Total Fertilizer	71.94	Tons

4" EDGE LINES, ITEM I-125

(Length of Project = 5.33 Miles)

4 x 5.33 Miles = 21.32 Miles.

6" LANE LINES, ITEM I-125

2 x 5.33 Miles x $\frac{15}{20}$ = 4.00 Miles

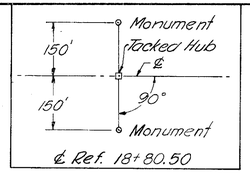
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

15/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

GREENE COUNTY
JEFFERSON TWP.



BEGIN WORK
STA. 16+05

BEGIN PROJECT
GRE.1-1.08 , FAY. 1-0.00
SLM. 1.08
STA. 16+62.74

Harry E. & Amy H. Anson

Wilber C. Beard

Note: The Typical Section on Sheet No 3 is also typical for the adjoining project.

Sta 12+00

Begin Sheet

Sta 24+00

End Sheet

12 14 16 18 20 22 24

LA

Construction Limits

P-10 P-11 P-12

Detail C

16+62.74 Forward = PT 1232+00.22 Back

N 49°54' 59" E

Exist. 8" Clay Tile (Abandon)

Curve Data
P.I 1196+63.23
Δ 19°02'-28" Lt.
D 0°-16'

Note: The underdrains back of Sta 16+62.74 shall be non-performed if completed by the adjacent project.

SRBM ℄

1-71-1(14) G2

Wilber C. & Hazel Beard

Note: Marker will be furnished and erected on the right by the State before acceptance of this project.

SRBM ℄ Fence Post in fence Line. Sta 15+45 - 160' Rt. El. 1081.610

DRAINAGE		I-1			I-5	I-8		
		12" Class E-1	18" Class E-1	6" Class I-3	6" Class F-1	6" Class I-3	No 8 C.B.	
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	
P-10	20+00	38					2	
P-11	20+00 to 24+00		400					
P-12	16+50 to 24+00			3020	20	2		
	Total	38	400	3020	20	2	2	

Note: See Cross-Sections for Storm Sewer Profile

Earthwork shall be non performed if completed by the adjacent project

4:1

E 1070.82

Plug

16+25

E 1069.17 Sta 16+50 (Outside only)

-0.24%

1072.51

1069.13

Exist. 8" Clay Tile

450'-18" @ 0.28%

E 1068.92 (Outside only)

E 1069.05

P-12 P-11

1075.24 1075.15 1075.03 1074.91 1074.79 1074.67 1074.55 1074.43 1074.31 1074.19 1074.07 1073.95 1073.83 1073.71 1073.59 1073.47

1080.2 1079.9 1078.7 1080.7 1082.1 1081.4 1080.3 1080.8 1077.3 1076.1 1074.5 1073.4 1072.5

1085 1080 1075 1070 1065 1060 1055 1050 1045

12 13 14 15 16 17 18 19 20 21 22 23 24

Excavation	30,338 C.Y.
Embankment	686 C.Y.
Embankment + 15%	789 C.Y.

12 TO 24

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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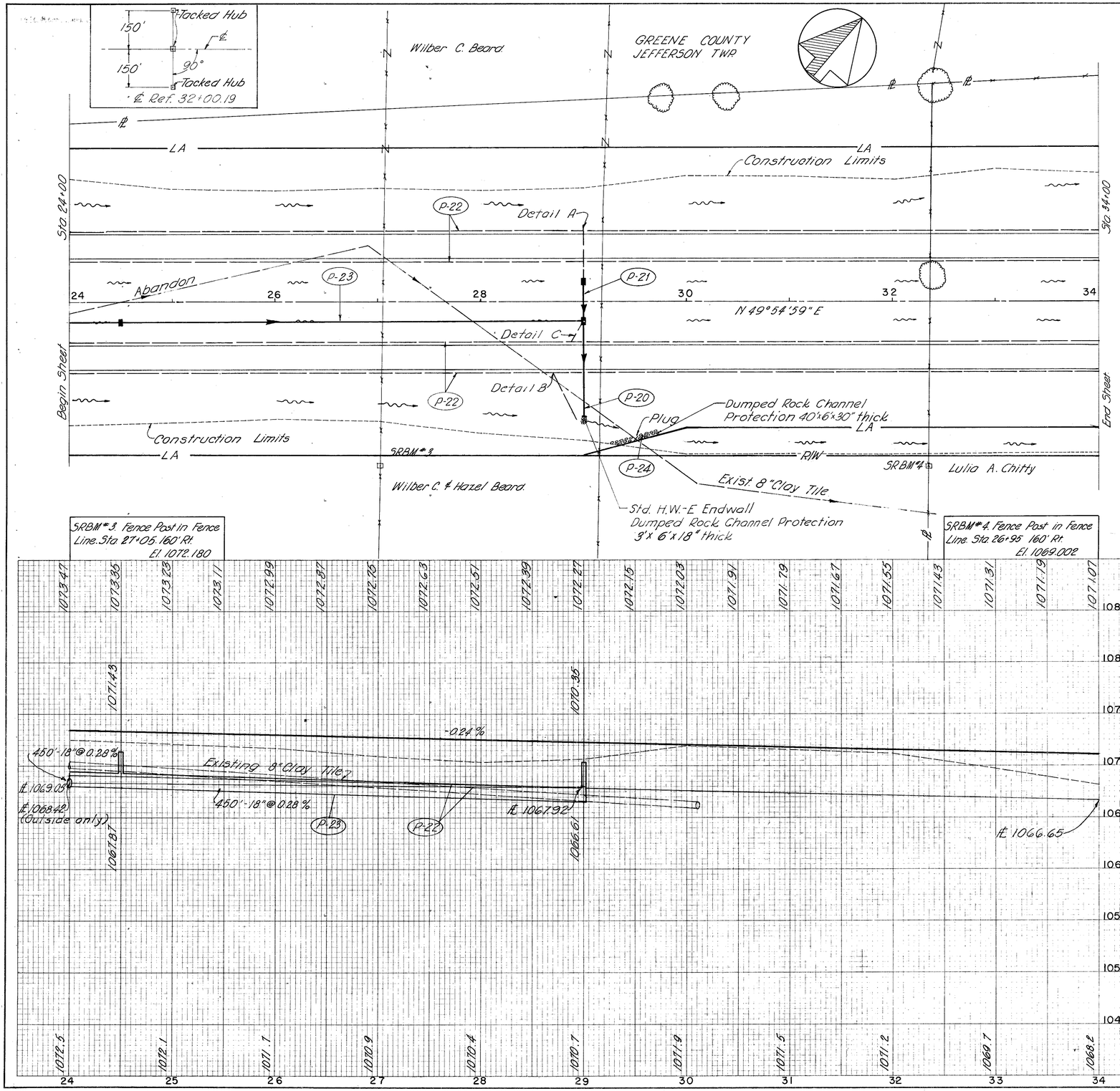
GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

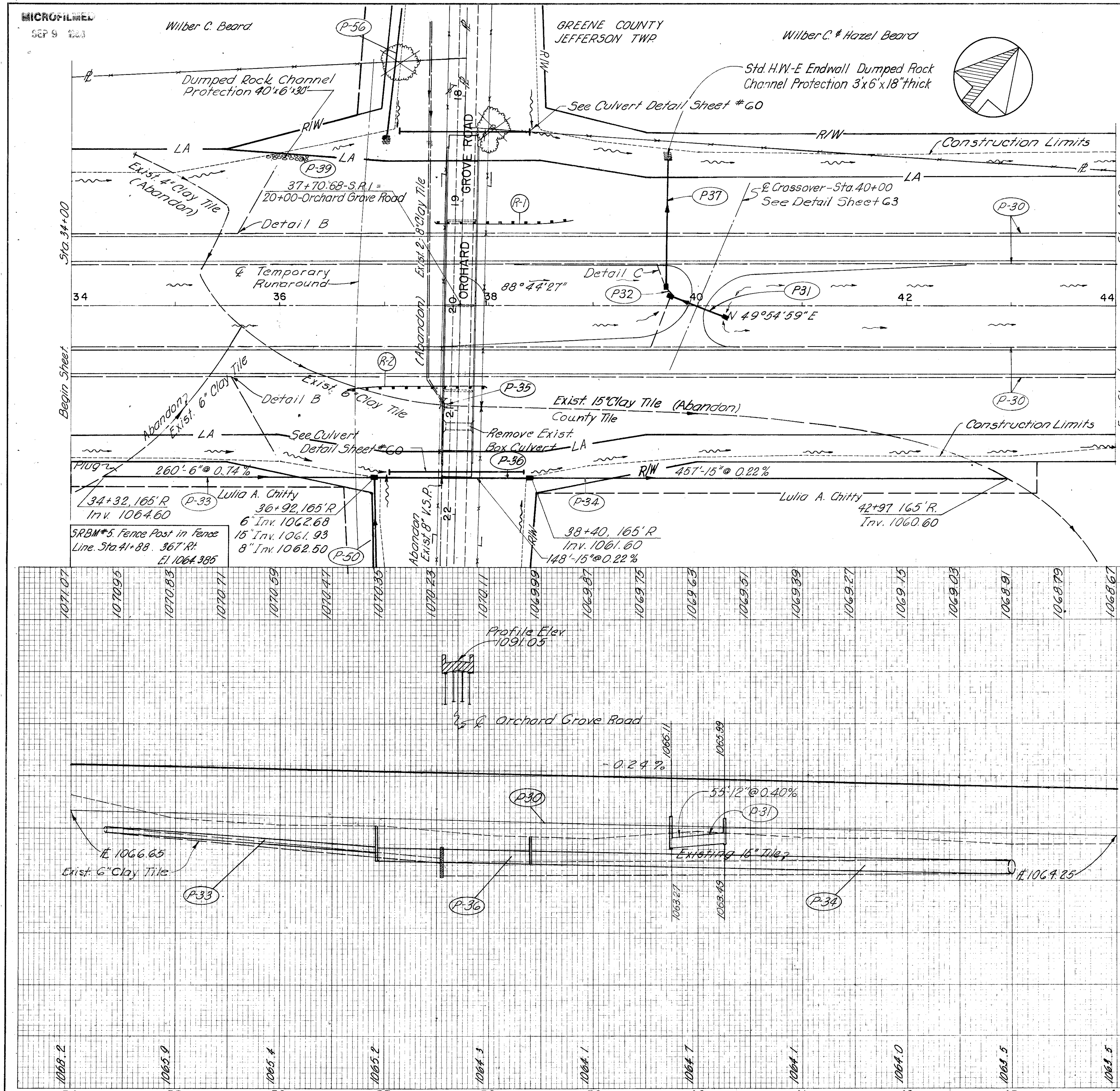
DRAINAGE		I-1 18" Class A-1 M-6 (b) or M-68 (b)	I-1 12" Class E-1	I-1 6" Class 1-3	I-1 18" Class E-1	I-1 6" Class A-1 M-6 (b) or M-68 (b)	I-1 6" Class F-1	I-1 8" Class F-1	I-2 Masonry	I-5 6" Class A-1 M-6 (b) or M-68 (b)	I-5 6" Class 1-3	I-8 No. 8 C.B.	I-10 Dumped Rock
CODE	LOCATION	L.F.	LF	L.F.	L.F.	L.F.	L.F.	L.F.	CY	Ea.	Ea.	Ea.	C.Y.
P-20	29+00	92							30				1
P-21	29+00		38									2	
P-22	24+00 to 34+00			4038		40	20	10		2	2		
P-23	24+00 to 29+00				500							1	
P-24	29+50												22
	Total	92	38	4038	500	40	20	10	30	2	2	3	23

Note: See Cross-Sections for Storm Sewer Profiles.



Excavation	7,079 C.Y.
Embankment	4,707 C.Y.
Embankment +15%	5,413 C.Y.

24 TO 34



FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

17 / 162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

DRAINAGE		I-1	I-1	I-1	I-1	I-1	I-1	I-1	I-1	I-1	I-5	I-5	I-5	I-2	I-8	I-8	I-10	S-24	I-16	I-1
		6" Class F-1	15" Class A-1 M-6.6(a) or M-6.8(b)	15" Class A-1 M-6.6(d)		12" Class E-1	6" Class H-2	15" Class H-2	6" Class I-3	8" Class F-1	6" Class I-3	6" Class H-2	15" Class H-2	Masonry	No 2-2B C.B.	No 8 C.B.	Dumped Rock	Removal of Ex. Str.	Inlet Abandoned	12" Class B-1
CODE	LOCATION	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.	Lump	Ea.	L.F.
P-39	36+00																22			
P-30	34+00 to 44+00	40							4174	20	4									
P-31	39+74 to 40+25															2				55
P-32	39+70 to 39+74					10										1				
P-33	34+32 to 36+92						210					1								
P-34	38+40 to 42+97							457					1							
P-35	37+50 Rt.																		1	
P-36	36+92 to 38+40			148											2					
P-37	39+70 Lt.		115											.26			1			
P-38	37+71 Rt.																	Lump		
	Total	40	115	148		10	210	457	4174	20	4	1	1	.26	2	3	23	Lump	1	55

Note: See Cross-Sections for Storm Sewer Profiles.

ROADWAY AND PAVEMENT		I-15			B-112	B-21	E-1	I-22	T-31	T-31
		Guard Rail Standard Type			Porous Base Course	Waterproofed Agg. Base Course	Compacted Subgrade	Subbase	Surface Treatment, Aggregate	Surface Treatment Bituminous Material
	LOCATION	L.F.			C.Y.	C.Y.	S.Y.	C.Y.	C.Y.	Gal.
R-1	38+00 Lt.	137.5								
R-2	38+00 Rt.	137.5								
	Crossover 40+00				83	42	498	83	4	125
	Total	275			83	42	498	83	4	125

Excavation	1,846 C.Y.
Embankment	34,093 C.Y.
Embankment + 15%	39,207 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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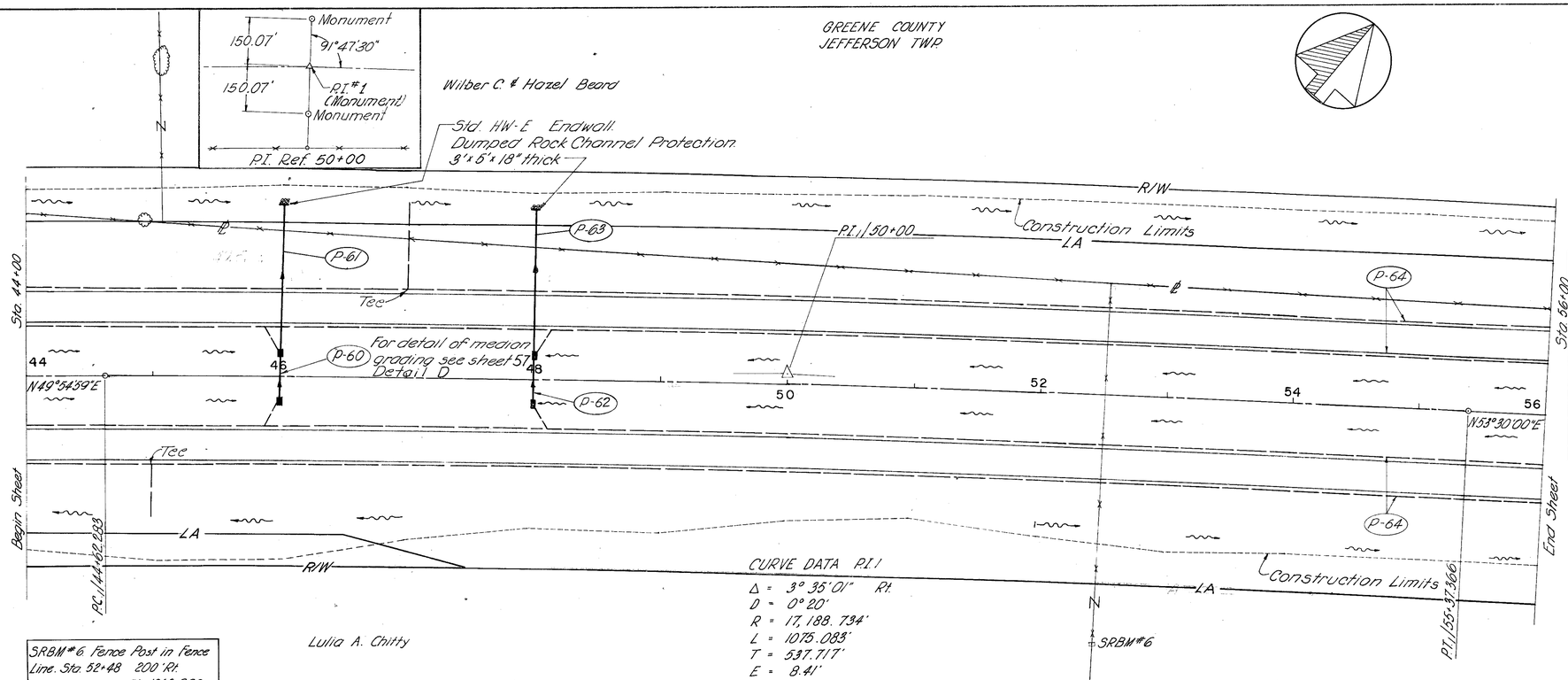
162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

GREENE COUNTY
JEFFERSON TWP.



DRAINAGE		I-1						I-2	I-8	HO	I-5	
		12" Class A-1 M-6.6(b)or M-6.8(b)	12" Class E-1	6" Class I-3	6" Class F-1	8" Class F-1	Masonry	No 8 C.B.	Dumped Rock	6" Class I-3		
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea	C.Y.	Ea		
P-60	46+00		38					2				
P-61	46+00	117					23		1			
P-62	48+00		38					2				
P-63	48+00	117					23		1			
P-64	44+00 to 56+00			4908	90	20				6		
	Total	234	76	4908	90	20	46	4	2	6		

Note: See Cross-Sections for Storm Sewer Profiles.

Excavation	3,069 C.Y.
Embankment	32,846 C.Y.
Embankment + 15%	45,823 C.Y.

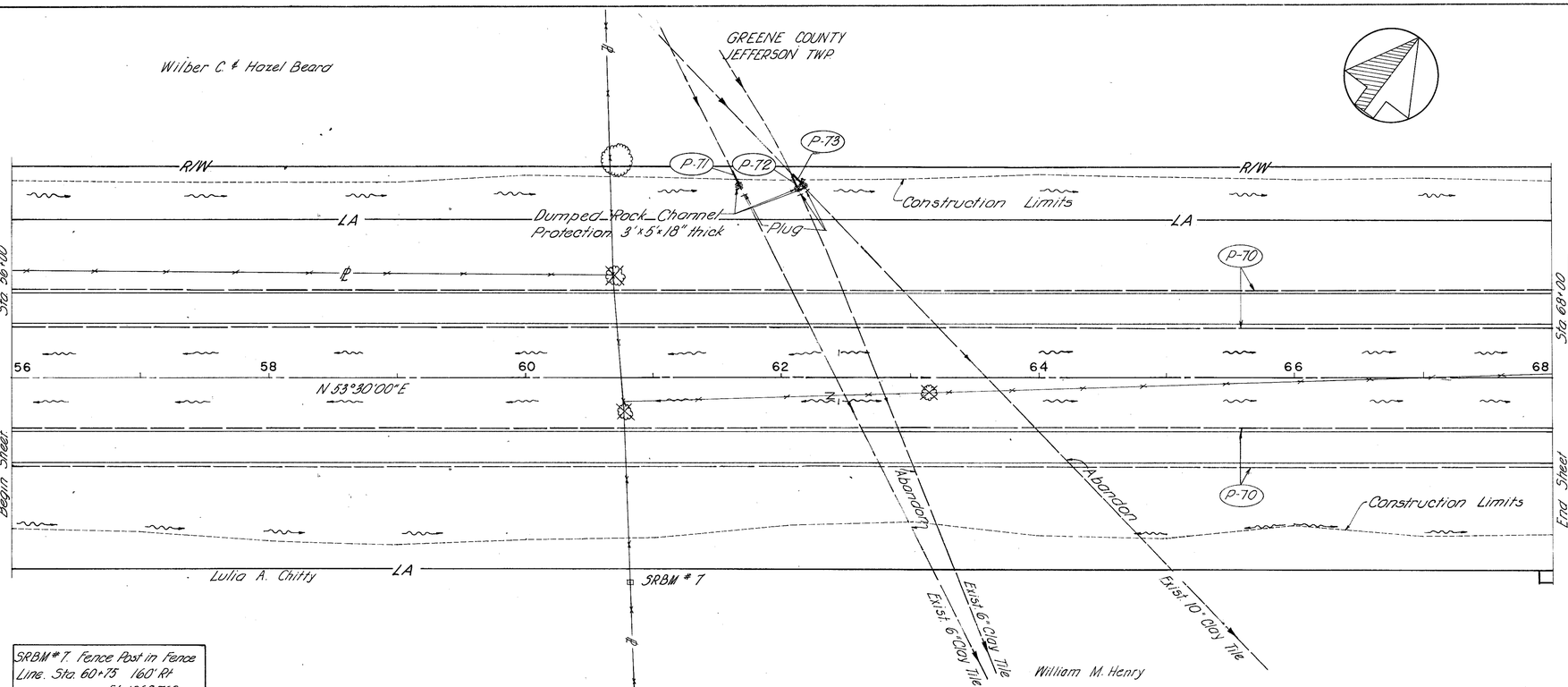
44 TO 56

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

19
162

GREENE & FAYETTE COUNTIES

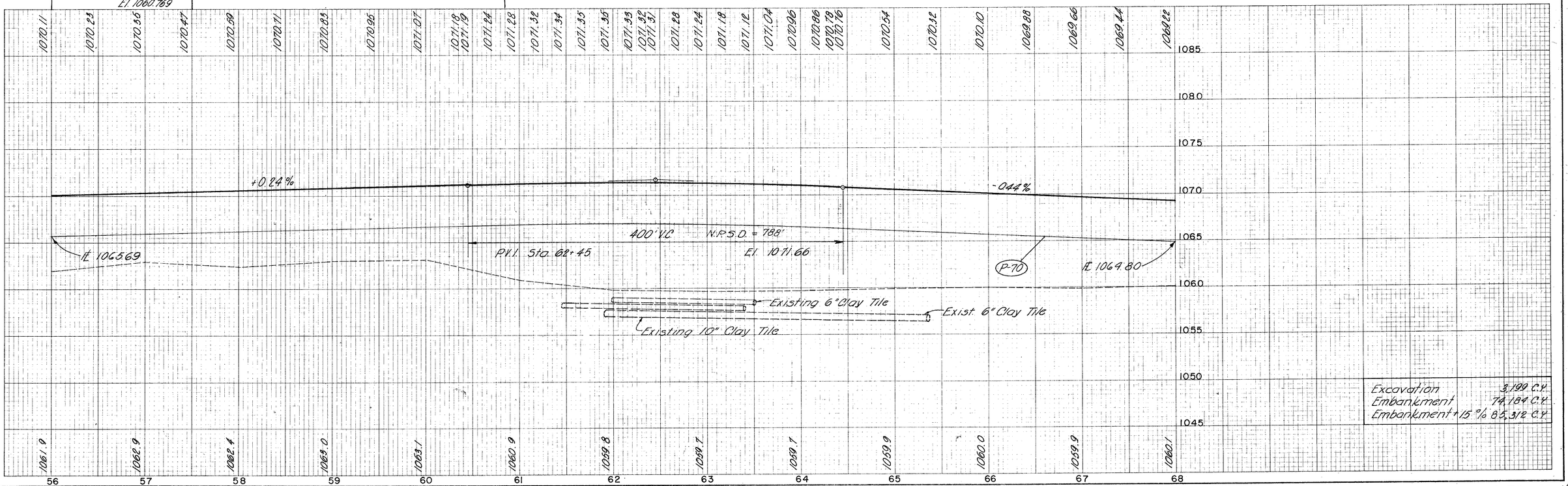
GRE 1-1.08 FAY 1-0.00



DRAINAGE		I-1 8" Class F-1	I-1 12" Class F-1	I-1 6" Class I-3	I-10 Dumped Rock		
CODE	LOCATION	L.F.	L.F.	L.F.	C.Y.		
P-70	56+00 to 68+00			4800			
P-71	61+67	10			1		
P-72	62+13	10			1		
P-73	62+15		10		1		
		20	10	4800	3		

Note: See Cross-Section for Storm Sewer Profile

SRBM # 7. Fence Post in Fence Line. Sta. 60+75 160' Rt. El. 1060.769



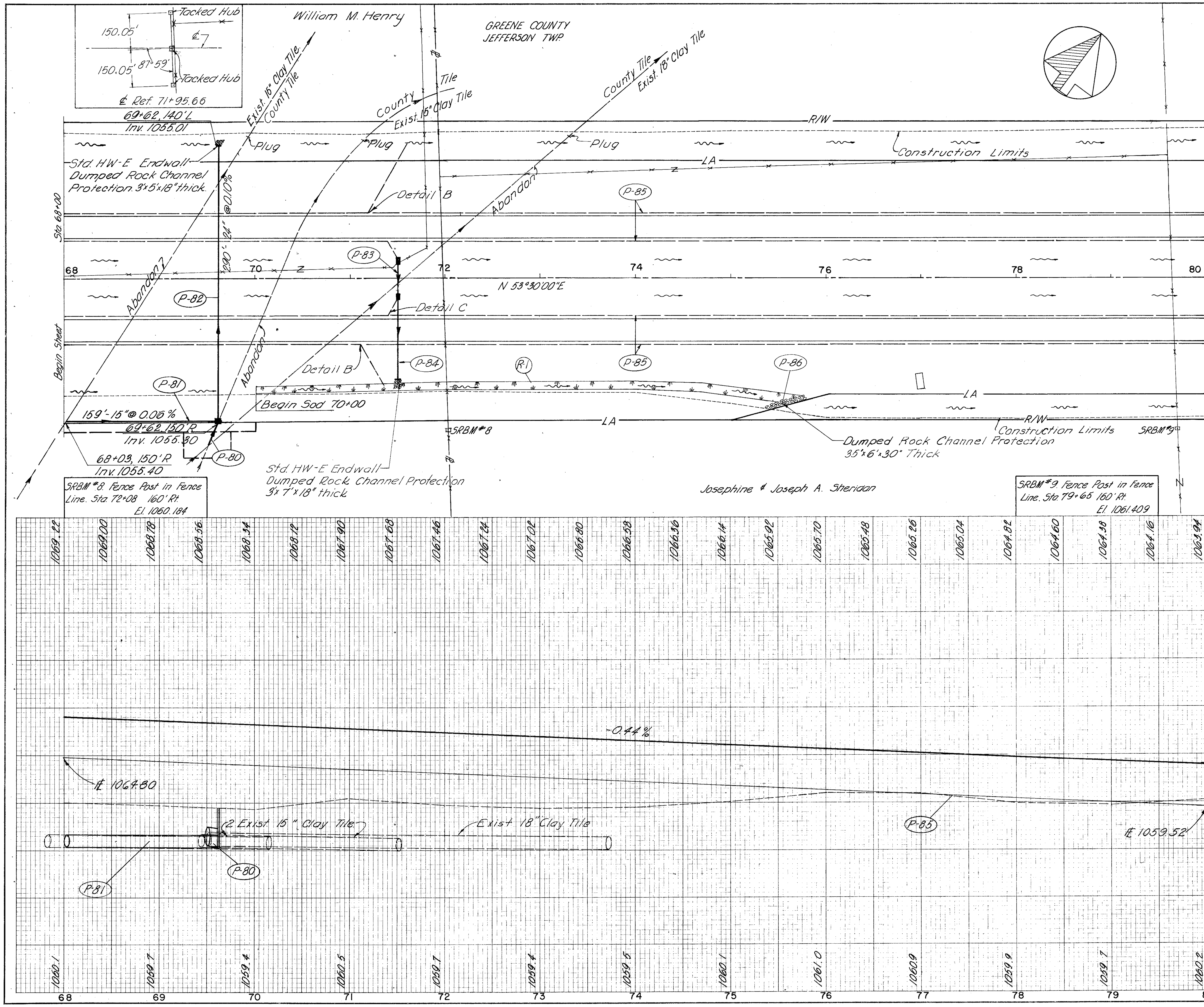
Excavation	3,199 C.Y.
Embankment	74,184 C.Y.
Embankment +15%	85,312 C.Y.

56 TO 68

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00



		I-1								I-5		I-2	I-8		I-10	I-5
DRAINAGE		12" Class A-1 M-6.6(a) or M-6.8(b)	24" Class A-1 M-6.6(b) or M-6.8(b)	6" Class F-1	8" Class F-1	12" Class E-1	15" Class H-2	24" Class H-2	6" Class I-3	6" Class I-3	15" Class H-2	Masonry	No 2-2B C.B.	No 8 C.B.	Dumped Rock	24" Class H-2
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.	Ea.
P-80	69+62 to 69+81							28								1
P-81	68+03 to 69+62						159				1					
P-82	69+62		290									41	1		1	
P-83	71+50					38								2		
P-84	71+50	93										23			2	
P-85	68+00 to 80+00			40	20				4897	4						
P-86	75+50														20	
	Total	93	290	40	20	38	159	28	4897	4	1	64	1	2	23	1

Note: See Cross-Section for Storm Sewer Profile.

ROADWAY		I-10 Sodding
	LOCATION	S.Y.
R-1	70+00 to 75+47	729
	Total	729

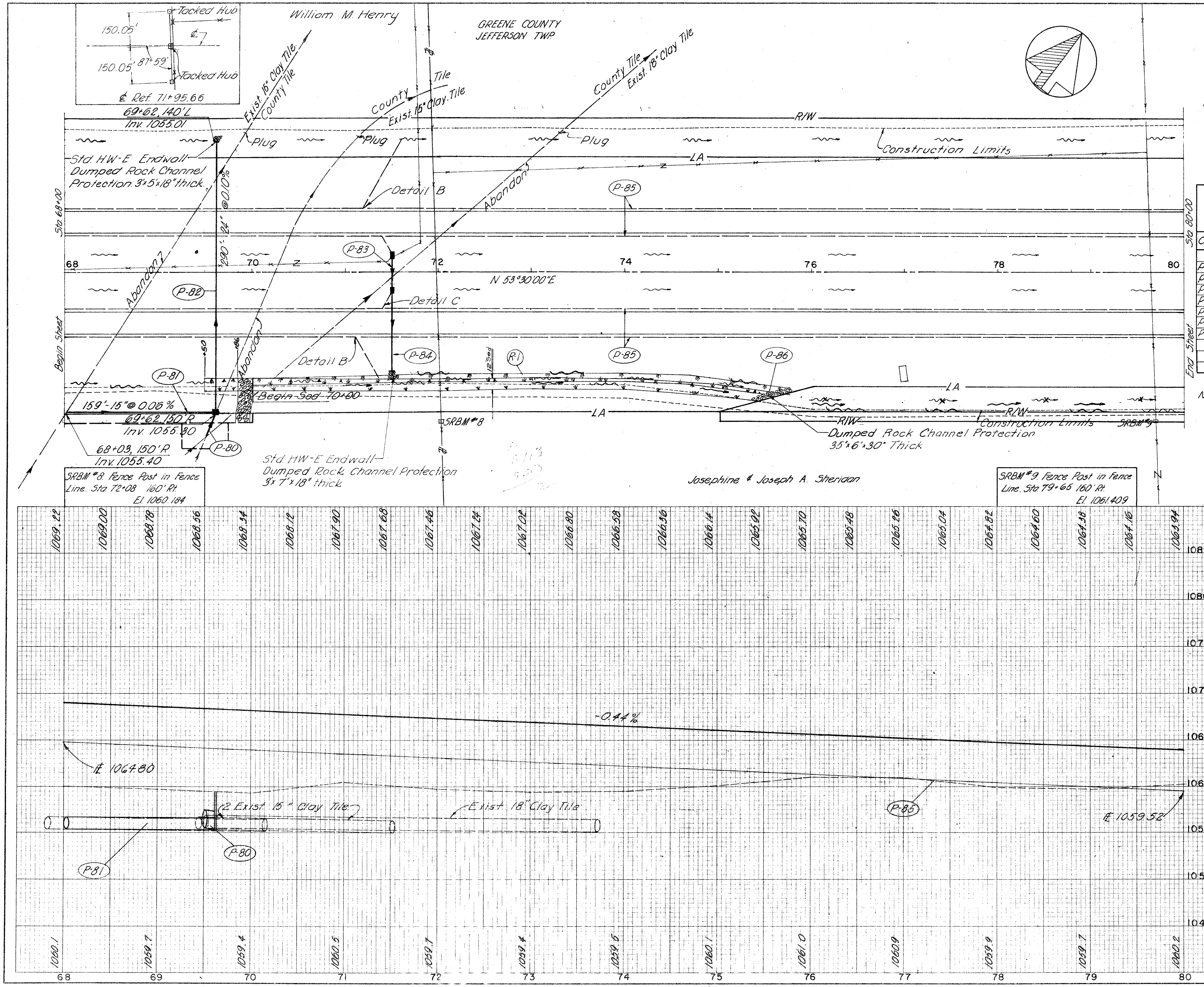
Excavation	5,511 C.Y.
Embankment	49,851 C.Y.
Embankment + 15%	57,329 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

20/162

GREENE & FAYETTE COUNTIES 2/9

GRE I-1.08 FAY I-0.00



DRAINAGE		I-1								I-5		I-2	I-8		I-10	I-5
		12" Class A-1 M-6.6(a) or M-6.8(b)	24" Class A-1 M-6.6(b) or M-6.8(b)	6" Class F-1	8" Class F-1	12" Class E-1	15" Class H-2	24" Class H-2	6" Class I-3	6" Class I-3	15" Class H-2	Masonry	No 2-2B C.B.	No 8 C.B.	Dumped Rock	24" Class H-2
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.	Ea.
P-80	69+62 to 69+81							28								1
P-81	68+03 to 69+62						159				1					
P-82	69+62		290									41	1		1	
P-83	71+50					38								2		
P-84	71+50	93										23			2	
P-85	68+00 to 80+00			40	20				4897	4						
P-86	75+50														20	
	Total	93	290	40	20	38	159	28	4897	4	1	64	1	2	23	1

Note: See Cross-Section for Storm Sewer Profile.

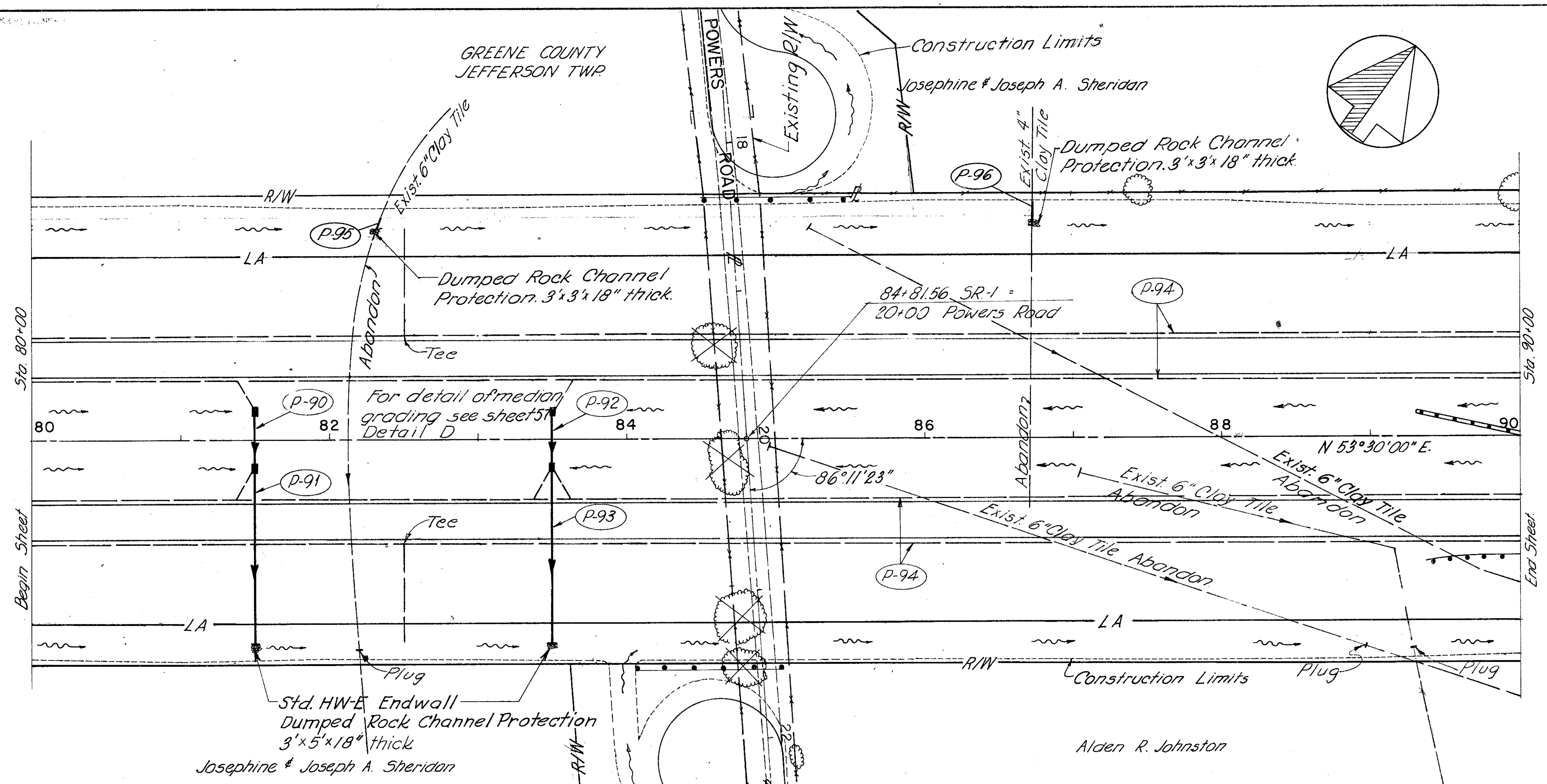
ROADWAY		I-10
		Sodding
	LOCATION	S.Y.
R-1	70+00 to 75+47	729
	Total	729

Excavation	5,511 C.Y.
Embankment	49,861 C.Y.
Embankment + 15%	57,329 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE I- 1.08 FAY I-0.00



DRAINAGE		I-1 15" Class A-1 M-6.6(a) or M-6.8(b)	I-1 12" Class E-1	I-1 6" Class I-3	I-1 6" Class F-1	I-1 8" Class F-1	I-2 Masonry	I-8 Nº 8 C.B.	I-10 Dumped Rock	I-5 6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	Ea.
P-96	86+73				10				1	
P-90	81+50		38					2		
P-91	81+50	118					.26		1	
P-92	83+50		38					2		
P-93	83+50	118					.26		1	
P-94	80+00 to 90+00			4038	70	20				7
P-95	82+34					10			1	
	Total	236	76	4038	80	30	.52	4	4	7

Note: See Cross-Section for Storm Sewer Profile

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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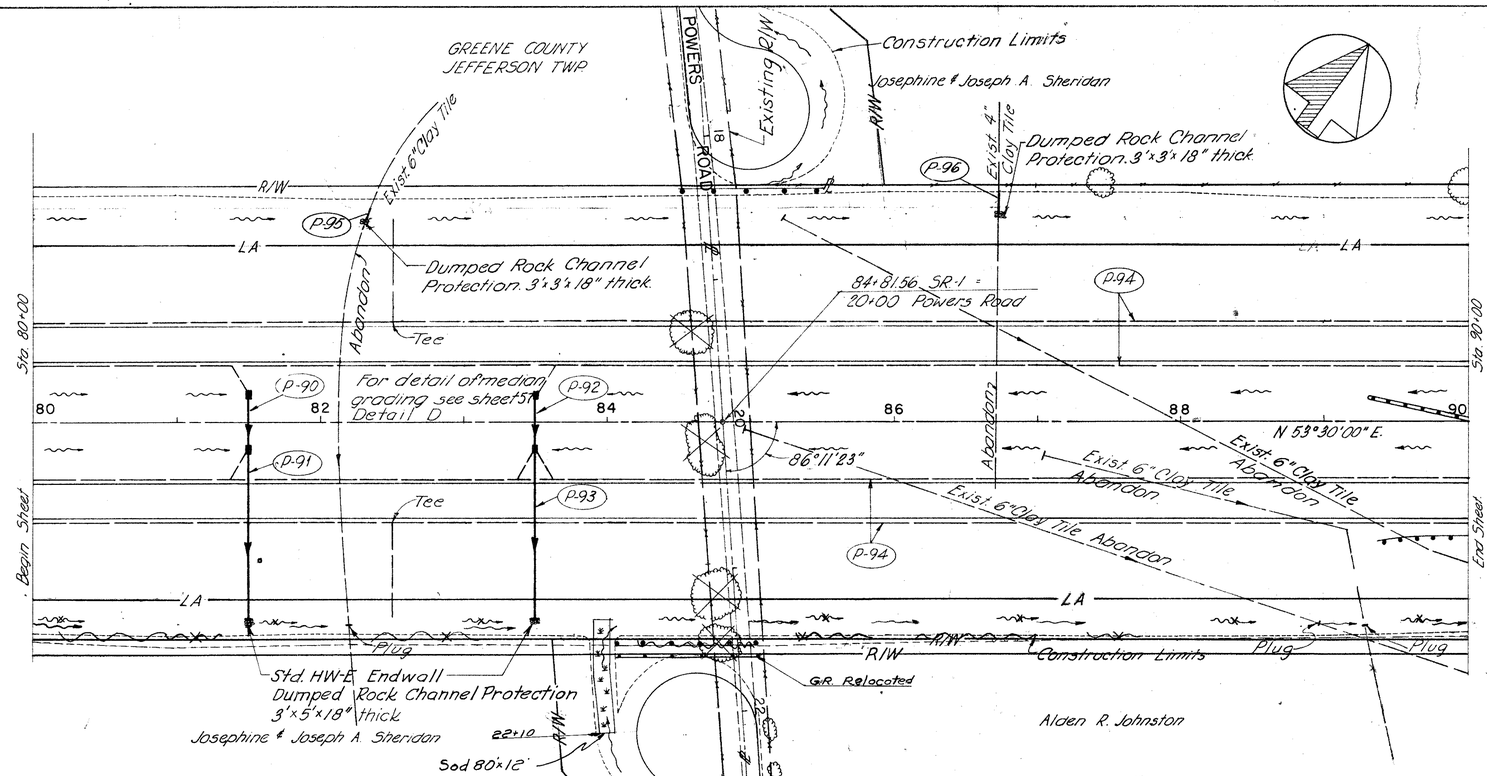
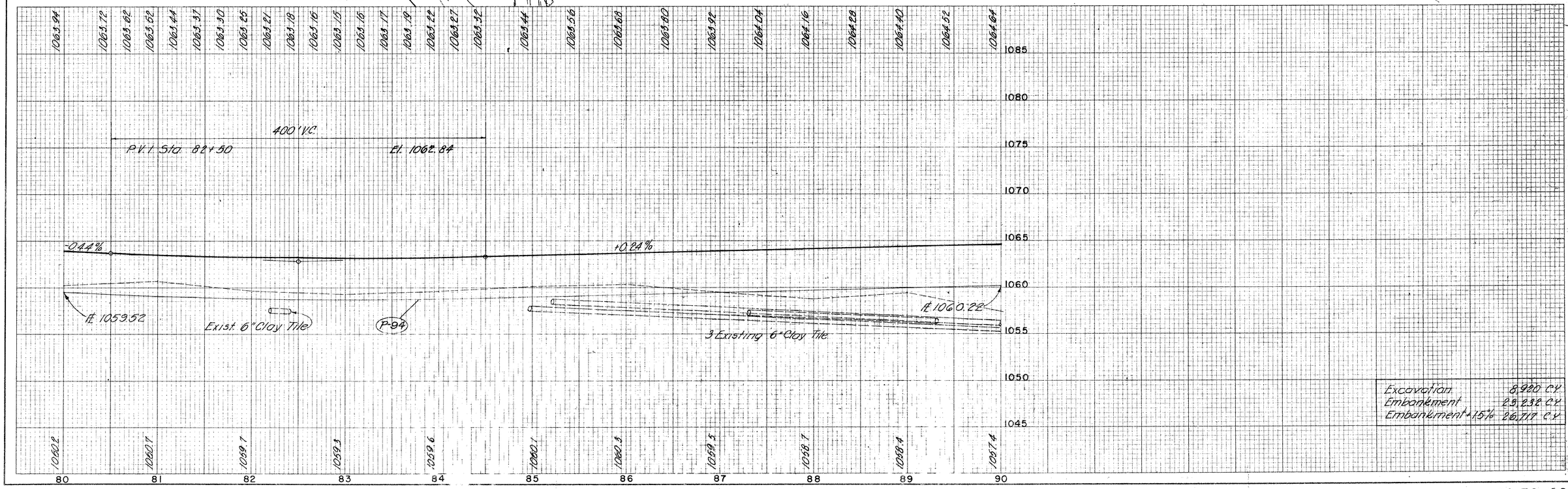
GREENE & FAYETTE COUNTIES 3/9

GRE I-1.08 FAY I-0.00



DRAINAGE		I-1 15" Class A-1 N-8 Solar W&B(6)	I-1 12" Class E-1	I-1 6" Class I-3	I-1 6" Class F-1	I-1 8" Class F-1	I-2 Masonry	I-8 No 8 C.B.	I-10 Dumped Rock	I-5 6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	Ea.
P-96	86+73				10			1		
P-90	81+50		38					2		
P-91	81+50	118					26		1	
P-92	83+50		38					2		
P-93	83+50	118					26		1	
P-94	80+00 to 90+00			4038	70	20				7
P-95	82+34					10			1	
	Total	236	76	4038	80	30	52	4	4	7

Note: See Cross-Section for Storm Sewer Profile



Excavation	8,920 CY
Embankment	23,232 CY
Embankment + 15%	26,717 CY

80 TO 90

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

Josephine & Joseph A. Sheridan

Dumped Rock Channel Protection 8'x10'x18" Thick

150.26' Tacked Hub ℄ 96°38' 150.26' Tacked Hub

℄ Ref. 93+25.24

GREENE COUNTY
JEFFERSON TWP.

Alden R. & Donna M. Johnston

P-114 ℄ R/W LA Construction Limits

Detail B

SR 1 Sta. 92+75.00 = Sta. 10+00 Channel Relocation

Existing 4"Clay Tile (Abandon)

R-6

P-112

60° Wye

P-110

Exist. 4" Clay Tile

P-113 92 P-111 94 96 P-115 98 100 102

Begin Sheet Sta 90+00

End Sheet Sta 102+00

90 R-2 ℄ Channel Relocation For Channel Cross Sections See Sheet 105

R-5

Exist. 6" Clay Tile (Abandon)

60° Wye

R-3

Dumped Rock Channel Protection 8'x10'x18" thick

Detail B

Exist. 6" Clay Tile (Abandon)

LA Construction Limits LA

R/W R/W R/W

SRBM #10

Alden R. Johnston

P-114

WEST BRANCH CREEK

Std. HW-E Endwall Dumped Rock Channel Protection 3'x5'x18" thick

Abandon

Plug

SRBM #11

Exist. 4" Clay Tile

Helen & Donald D. Early

Exist. 6" Clay Tile

SRBM #10. Fence Post in Fence Line. Sta 91+10 160' Rt. El. 1057.824

SRBM #11. Fence Post in Fence Line. Sta 100+80 160' Rt. El. 1059.044

DRAINAGE		I-1 6" Class F-1	I-1 8" Class F-1	I-1 12" Class E-1	I-1 6" Class I-3		I-2 Masonry	I-8 C.B. No 8	I-10 Dumped Rock	I-5 6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.		C.Y.	Ea.	C.Y.	Ea.
P-115	95+00 to 96+75			184				2		
P-110	93+50 to 95+00			150				1		
P-111	93+50 to 92+92			58			23		1	
P-112	90+00 to 102+00	20	20		4678					4
P-113	92+00 to 92+55			55			23	1	1	
P-114	92+75 Rt & Lt.								18	
	Total	20	20	447	4678		46	4	20	4

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY	I-15 Guard Rail Std. Type Corner Type
LOCATION	L.F. L.F.
R-2 89+30 to 92+40	150 150
R-3 89+30 to 92+40	300
R-5 93+10 to 96+10	150 150
R-6 93+10 to 96+10	300
Total	900 300

1064.64 1064.16 1064.88 1065.00 1065.12 1065.84 1065.48 1065.60 1065.72 1065.84 1065.96 1066.08 1066.20 1066.32 1066.44 1066.56 1066.68 1066.80 1066.92 1067.04 1066.92 1066.80 1066.68 1066.56 1066.44 1066.32 1066.20 1066.08 1065.96 1065.84

1057.4 1057.4 1056.8 1056.5 1052.5 1052.0 1052.0 1055.0 1057.0 1057.5 1058.9 1059.7 1059.4 1059.8 1060.0 1060.3 1059.7

Bridge Limit 92+36.50 10 Years 1058.8 50 Years 1059.1 1060.0 Bridge Limit 93+11.50

1060.70 1061.06 1063.92 1064.32 1060.84 1061.42

+0.24% -0.24%

58'-12" @ 1.00% 55'-12" @ 1.00% 150'-12" @ 1.00% 184'-12" @ 1.00%

℄ 1060.22

P-110 P-115 P-112 P-113 P-111

Exist. 6" Clay Tile Exist. 6" Clay Tile Exist. 4" Clay Tile Exist. 4" Clay Tile

1057.55 1057.00 1056.92 1057.50 1059.00 1050.5

400' V.C. N.P.S.D. = 1033' El. 1066.68

P.V.I. Sta 98+50

90 91 92 93 94 95 96 97 98 99 100 101 102

10.85 10.80 10.75 10.70 10.65 10.60 10.55 10.50 10.45

GRE-1-0252 L&R

PROPOSED STRUCTURE

TYPE 3 Span Continuous Concrete Slab on Capped Pile Substructure

SPAN 82.00'-87.50'-82.00'-96 Brgs.

LOAD FREQUENCY RATING C.F. = 2000 (ST)

ROADWAY 42'-0" n parapets

SKEW None

SURFACE COURSE 1" Monolith W.C.

APPROACH SLABS A S-1-54 (25' long)

ALIGNMENT Tangent

SUPERELEVATION None

Excavation	7,095 C.Y.
Embankment	51,465 C.Y.
Embankment +15%	59,185 C.Y.

CHANNEL EARTHWORK

Excavation	1,360 C.Y.
Embankment	1,248 C.Y.
Embankment +15%	1,659 C.Y.

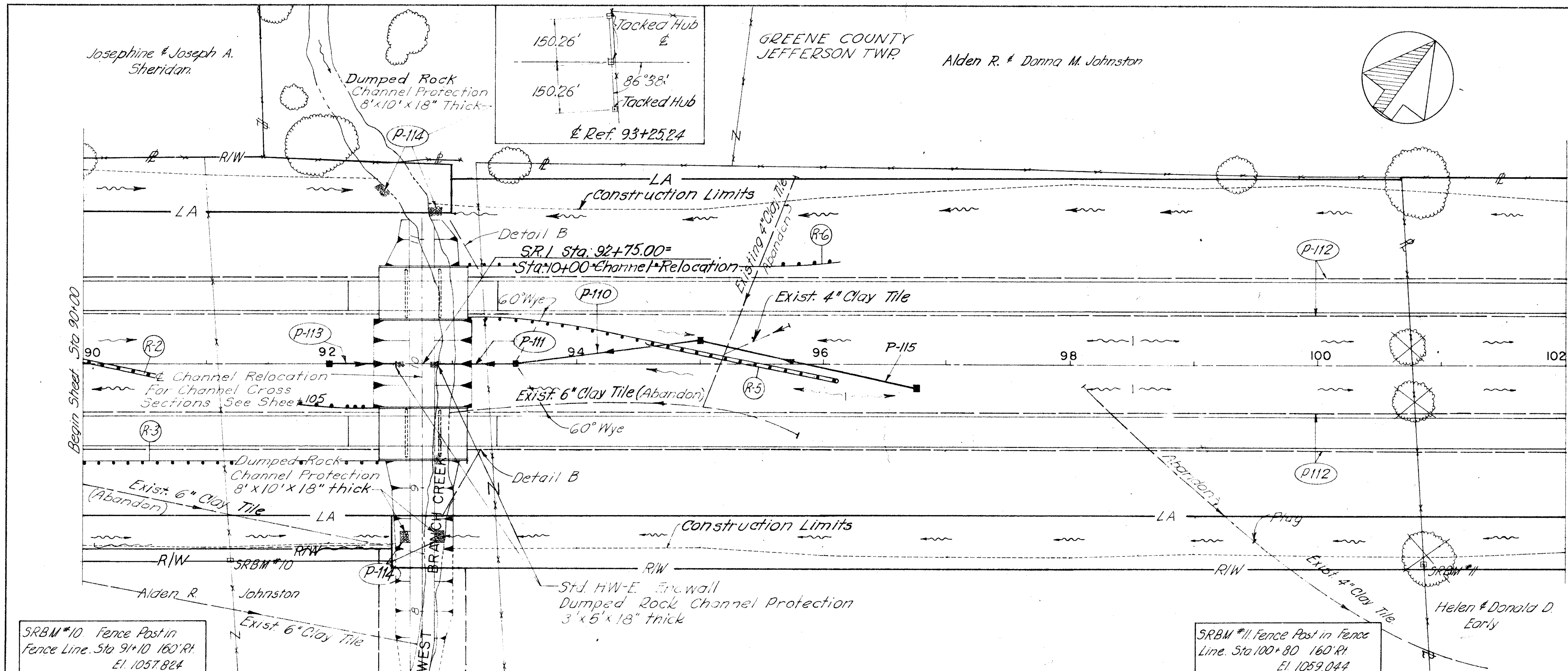
90 TO 102

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

22/162

GREENE & FAYETTE COUNTIES

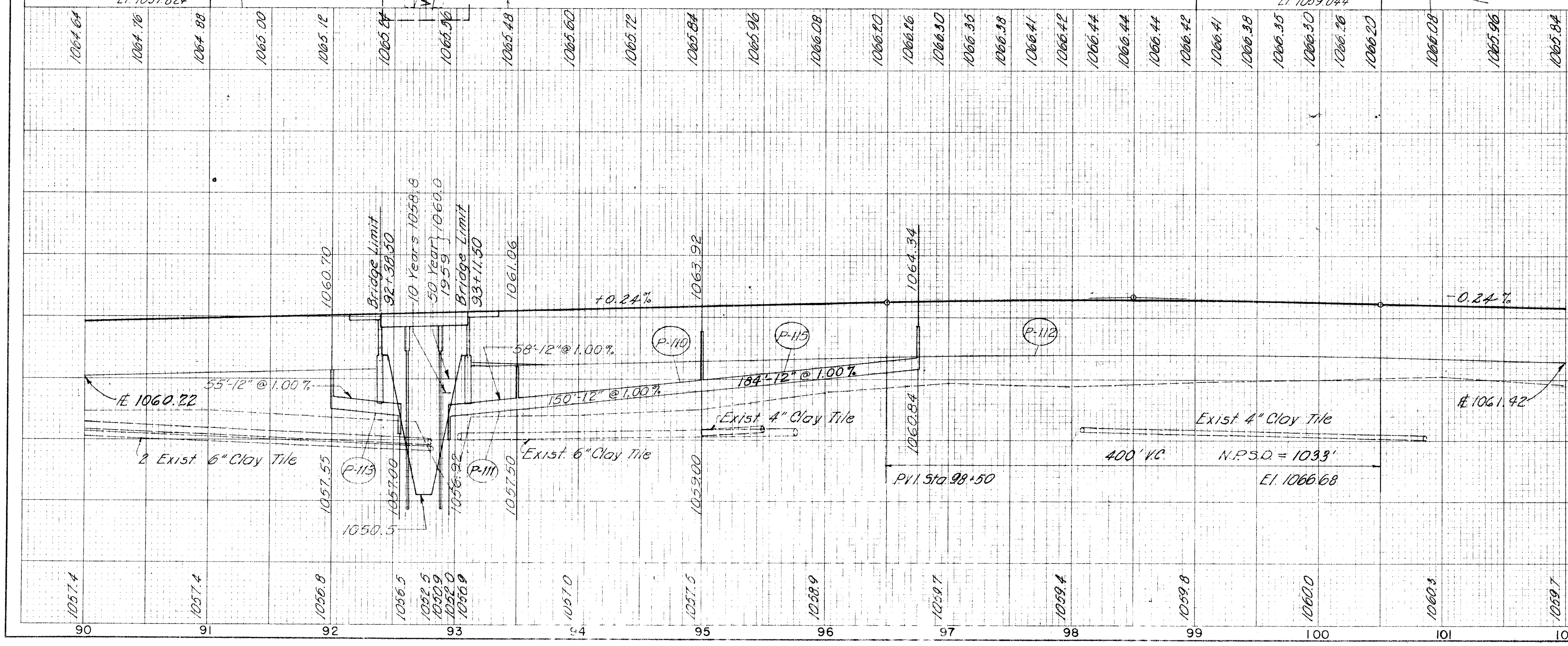
GRE I-1.08 FAY I-0.00 4/9



CODE	DRAINAGE LOCATION	I-1 6" Class F-1 L.F.	I-1 8" Class F-1 L.F.	I-1 12" Class E-1 L.F.	I-1 6" Class I-3 L.F.	I-2 Masonry C.Y.	I-8 No 8 C.B. Ea.	H01 Dumped Rock C.Y.	I-5 6" Class I-3 Ea.
P-115	95+00 to 96+75			184			2		
P-110	93+50 to 95+00			150			1		
P-111	93+50 to 92+92			58		23		1	
P-112	90+00 to 102+00	20	20		4678				4
P-113	92+00 + 92+55			55		23	1	1	
P-114	92+75 Rt. & Lt.							18	
	Total	20	20	447	4678	46	4	20	4

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY LOCATION		I-15 Guard Rail Std. Type L.F.	I-15 Guard Rail Barrier Type L.F.
R-2	89+30 to 92+40	150	150
R-3	89+30 to 92+40	300	
R-5	93+10 to 96+10	150	150
R-6	93+10 to 96+10	300	
	Total	900	300



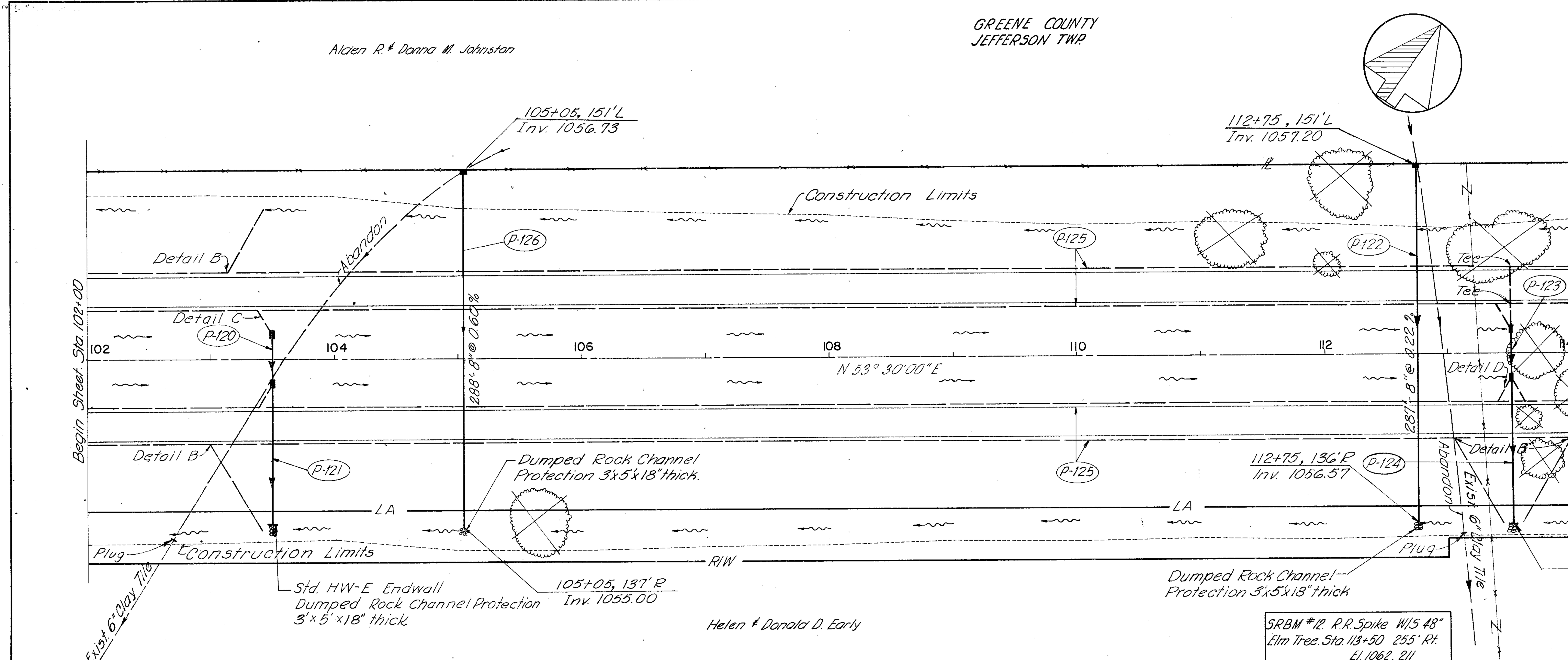
GRE-1-0252 L&R
PROPOSED STRUCTURE

TYPE 3 Span Continuous Concrete Slab on Capped Pile Substructure
SPAN 22.00'-27.50'-22.00' ℄ Brgs.
LOAD FREQUENCY RATING C.F.=2000 (57)
ROADWAY 42' f/f parapets
SKEW None
SURFACE COURSE 1" Monolith W.C.
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

Excavation	7,095 C.Y.
Embankment	51,465 C.Y.
Embankment +15%	59,185 C.Y.
CHANNEL EARTHWORK	
Excavation	1,360 C.Y.
Embankment	1,443 C.Y.
Embankment +15%	1,659 C.Y.

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

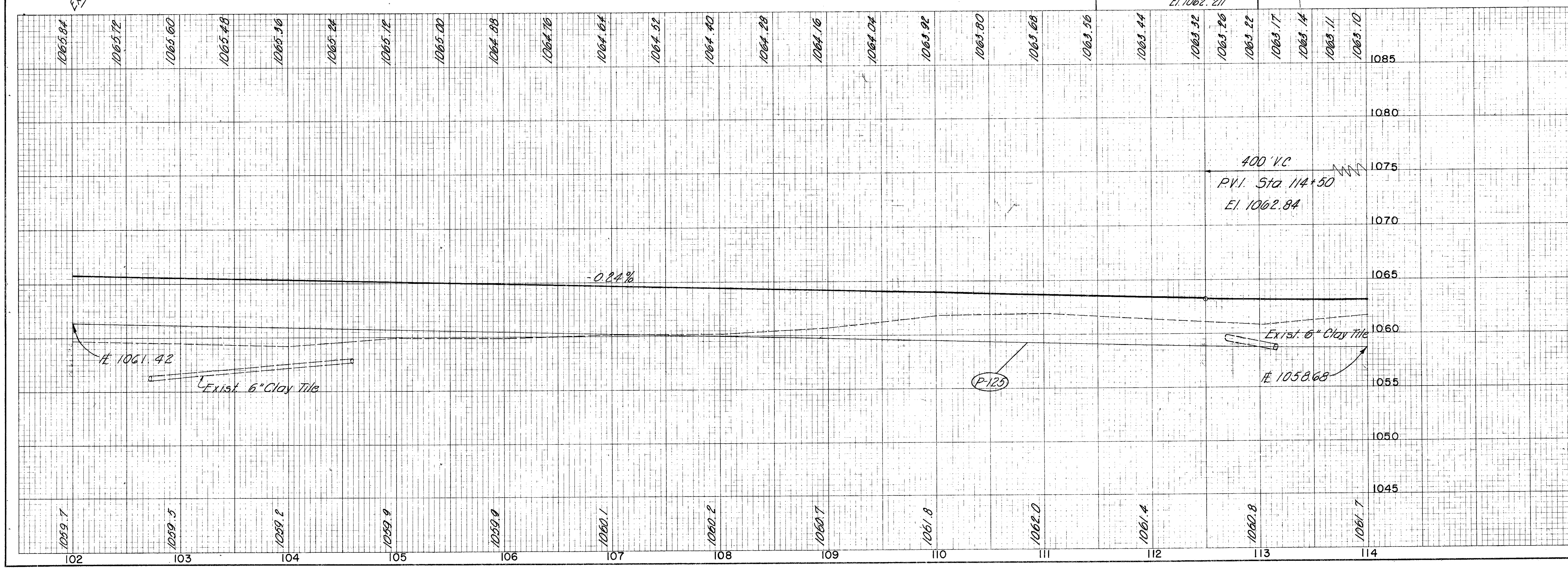


GREENE COUNTY
JEFFERSON TWP.
Alden R. & Donna M. Johnston
105+05, 151'L
Inv. 1056.73
112+75, 151'L
Inv. 1057.20
Construction Limits
Detail B
Abandon
P-126
P-125
P-122
Tee
P-123
Detail C
P-120
102
104
106
108
110
112
N 53° 30' 00" E
288'- 8" @ 0.60%
287'- 8" @ 0.22%
Detail D
Begin Sheet Sta. 102+00
End Sheet Sta. 114+00
P-121
Dumped Rock Channel Protection 3'x5'x18" thick.
112+75, 136'R
Inv. 1056.57
P-124
Exist. 6" Clay Tile
LA
Plug
R/W
Std. HW-E Endwall
Dumped Rock Channel Protection
3'x5'x18" thick
105+05, 137'R
Inv. 1055.00
Helen & Donald D. Early
Dumped Rock Channel Protection 3'x5'x18" thick
Std. HW-E Endwall
Dumped Rock Channel Protection
3'x5'x18" thick

		I-1									I-5		I-2	I-8		I-10
DRAINAGE		6" Class F-1	8" Class F-1	6" Class A-1 M-6.6(b) or M-6.8(b)	8" Class A-1 M-6.6(b) or M-6.8(b)	12" Class A-1 M-6.6(a) or M-6.8(b)	15" Class A-1 M-6.6(a) or M-6.8(b)	12" Class E-1	10" Class F-1	6" Class I-3	6" Class A-1	6" Class I-3	Masonry	Nº 2-2B C.B.	Nº 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.
P-120	103+50							38							2	
P-121	103+50					119							23			1
P-122	112+75				287				10					1		1
P-123	113+50							38							2	
P-124	113+50						116						26			1
P-125	102+00 to 114+00	80	40	40						5030	2	9				
P-126	105+13				288				10					1		1
	Total	80	40	40	575	119	116	76	20	5030	2	9	.49	2	4	4

Note: See Cross-Sections for Storm Sewer Profiles

SRBM #12 R.R. Spike W/S 48" Elm Tree Sta. 113+50 255' Rt. El. 1062.211



1065.84
1065.72
1065.60
1065.48
1065.36
1065.24
1065.12
1065.00
1064.88
1064.76
1064.64
1064.52
1064.40
1064.28
1064.16
1064.04
1063.92
1063.80
1063.68
1063.56
1063.44
1063.32
1063.26
1063.22
1063.17
1063.14
1063.11
1063.10
400' V.C.
P.V.I. Sta. 114+50
El. 1062.84
-0.24%
℄ 1061.42
Exist. 6" Clay Tile
P-125
℄ 1058.68
Exist. 6" Clay Tile
1085
1080
1075
1070
1065
1060
1055
1050
1045
1059.7
1059.5
1059.2
1059.9
1059.9
1060.1
1060.2
1060.7
1061.8
1062.0
1061.4
1060.8
1061.7
102
103
104
105
106
107
108
109
110
111
112
113
114

Excavation	7,000 C.Y.
Embankment	24,575 C.Y.
Embankment + 15%	28,261 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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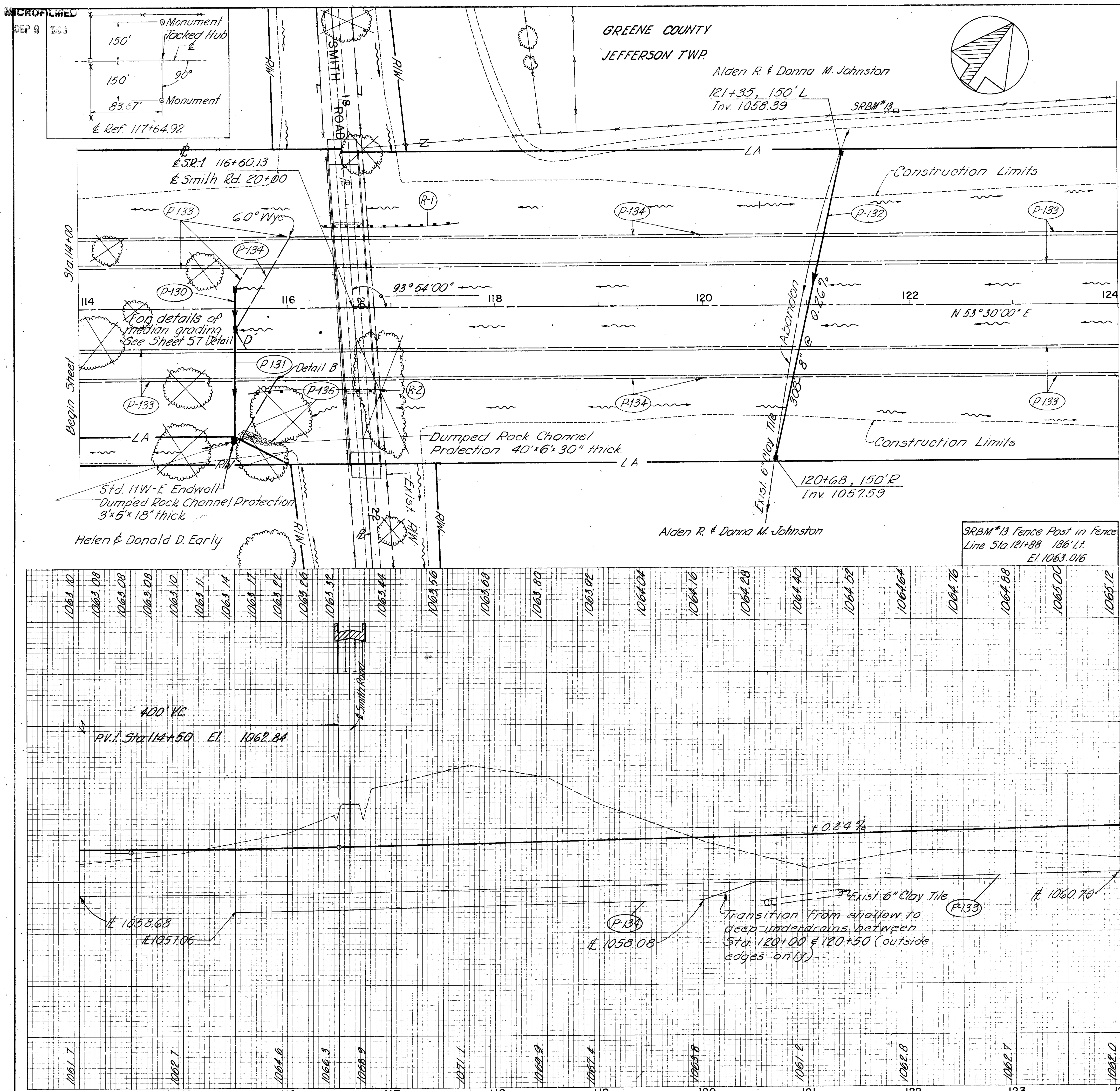
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY I-0.00



DRAINAGE		I-1								I-5		I-2	I-8		I-10
		6" Class A-1 M-6.6(b) or M-6.8(b)	8" Class A-1 M-6.6(b) or M-6.8(b)	18" Class A-1 M-6.6(a) or M-6.8(b)	6" Class F-1	8" Class F-1	12" Class E-1		6" Class I-3	6" Class I-3	6" Class A-1	Masonry	No 2-2B C.B.	No 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.		L.F.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.
P-130	115+50						38							2	
P-131	115+50			115								.30			2
P-132	121+02		308										2		
P-133	114+00 to 124+00 (Shallow)				30				3157	2					
P-134	115+50 to 120+50 (Deep)	104				10			900	1	1				
P-136	115+75														22
	Total	104	308	115	30	10	38		4057	3	1	.30	2	2	24

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY		I-15
		Guard Rail Std. Type
	LOCATION	L.F.
R-1	117+00 Lt.	137.5
R-2	117+00 Rt.	137.5
	Total	275

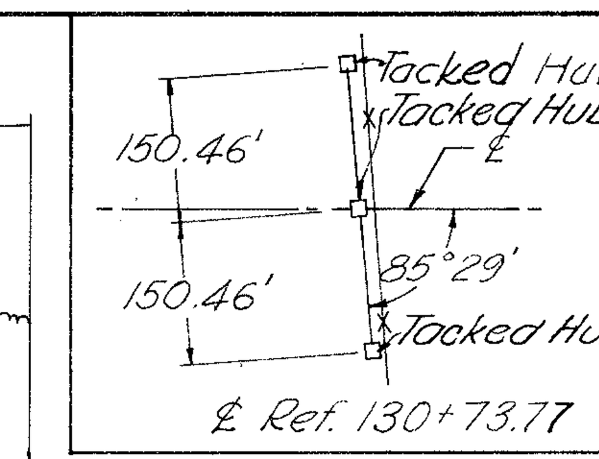
Excavation	18,691 C.Y.
Embankment	4,633 C.Y.
Embankment +15%	5,328 C.Y.

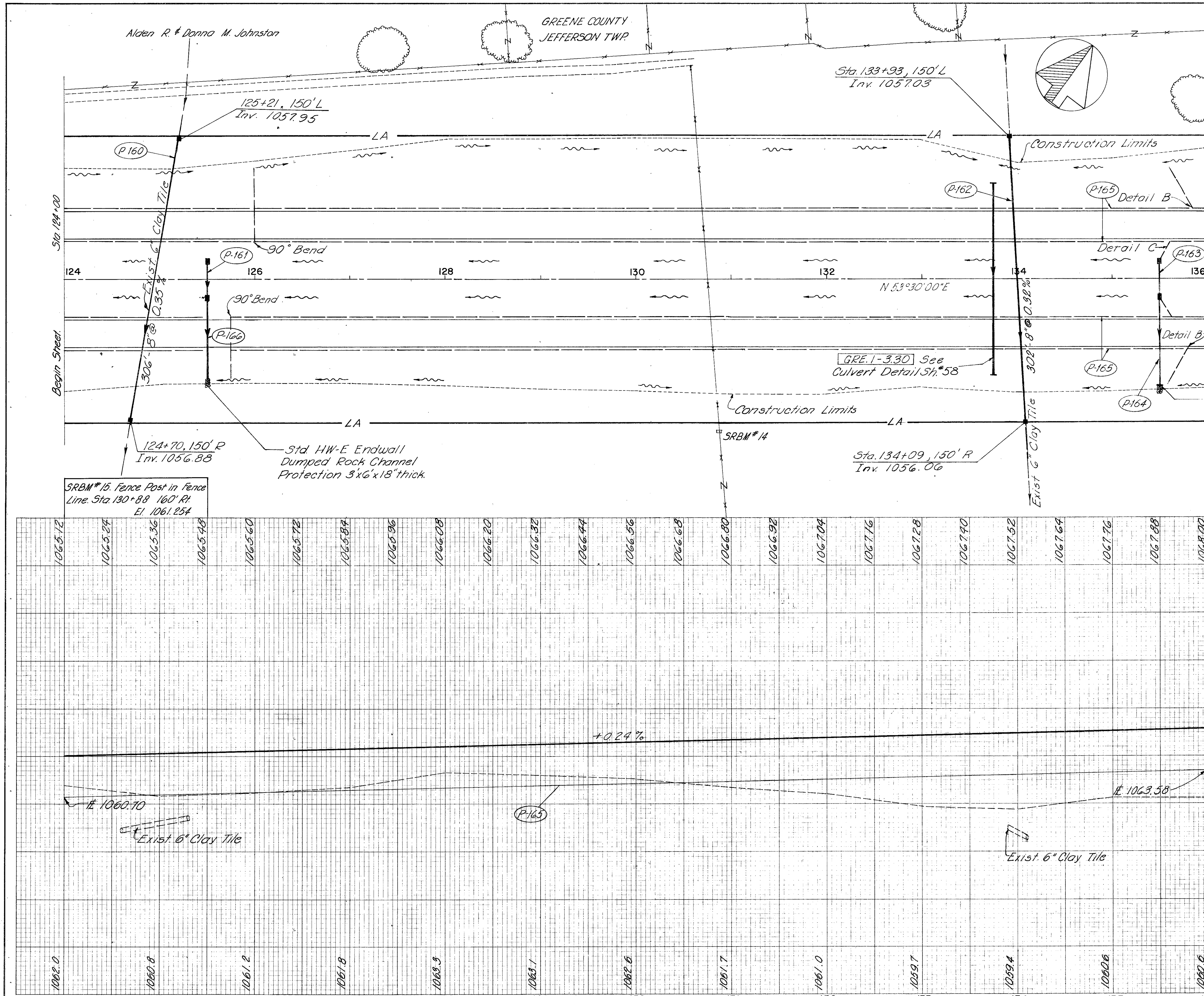
114 TO 124

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00





DRAINAGE		I-1									I-2	I-8		I-10	I-5	
		8" Class A-1 M-6.6(b) or M-6.8(b)	12" Class B-1	12" Class A-1 M-6.6(a) or M-6.8(b)	15" Class A-1 M-6.6(a) or M-6.8(b)	12" Class E-1	6" Class I-3	6" Class A-1 M-6.6(b) or M-6.8(b)	6" Class F-1	8" Class F-1	Masonry	No 2-2B C.B.	No 8 C.B.	Dumped Rock	6" Class I-3	6" Class A-1
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	Ea.	C.Y.	Ea.	Ea.
P-160	124+95	306										2				
P161	125+50		38										2			
P-162	133+92	302										2				
P-163	135+50					38							2			
P-164	135+50			91							.23			1		
P-165	124+00 to 136+00						4782	145	70	20					4	3
P-166					86						.26			1		
	Total	608	38	9.	86	38	4782	145	70	20	.49	4	4	2	4	3

Note: See Cross-Sections for Storm Sewer Profiles.

Std. HW-E Endwall
Dump Rock Channel Protection
3'x6'x 18" thick

Excavation	2,021 C.Y.
Embankment	35,632 C.Y.
Embankment +15%	40,977 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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162

GREENE & FAYETTE COUNTIES

GRE I- 1.08 FAY I-0.00

GREENE COUNTY
JEFFERSON TWP.

Alden R. & Donna M. Johnston

Exist. 6" Clay Tile

Exist. 5" Clay Tile

35°-15"

P-171

139+67, 150' L
21" Inv. 1053.67
15" Inv. East 1056.00

140+23, 150' L
10" Inv. 1056.63
8" Inv. East 1056.80

431'-8" @ 0.32%

P-170

Plug

144+53, 150' L
Inv. 1058.20

LA

Construction Limits

PC 145+36.39

R/W

LA

Sta 136+00

P-172

P-173

300'-21" @ 0.08%

Exist. 15" Clay Tile

Plug

308'-10" @ 0.03%

Abandon

Abandon

P-176

Sta 148+00

136 138 140 142 144 146 148

N 53° 30' 00" E

Exist. 6" Clay Tile

Begin Sheet

End Sheet

P-176

P-174

P-175

County Tile

Exist. 15" Clay Tile

Exist. 8" Clay Tile

47'-8" @ 0.38%

Construction Limits

11'-15" @ 0.30%

LA

139+86, 150' R
10" Inv. 1056.53
8" Inv. West 1056.69

139+43, 150' R
21" Inv. 1055.43
15" Inv. West 1056.18
8" Inv. 1056.51

Exist. 15" Clay Tile

DRAINAGE		I-1					I-5	I-8		
		10" Class A-1 M-86 (b) or M-86 (d)	21" Class A-1 M-86 (b) or M-86 (d)	8" Class H-2	15" Class H-2	6" Class I-3	8" Class H-2	15" Class H-2	No. 2-2B C.B	
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	Ea	Ea	Ea	
P.170	140+24 to 144+55			431			2			
P.171	139+69 to 140+24				35		2			
P.172	139+56		300						2	
P.173	140+04	303							2	
P.174	139+29 to 139+40				11		1			
P.175	139+40 to 139+87			47						
P.176	136+00 to 148+00					4800				
	Total	303	300	478	46	4800	2	3	4	

Note: See Cross-Sections for Storm Sewer Profiles

1068.00 1068.12 1068.24 1068.36 1068.48 1068.60 1068.72 1068.84 1068.96 1069.08 1069.20 1069.32 1069.44 1069.56 1069.68 1069.80 1069.92 1069.98 1070.02 1070.07 1070.10 1070.13 1070.14 1070.16 1070.16 1070.16 1070.14 1070.13 1070.10 1070.07 1070.02 1069.98 1069.92

1085
1080
1075
1070
1065
1060
1055
1050
1045

400' V.C. N.P.S.D. = 1033'
P.V.I. 146+15 El. 1070.36
+1.5
+0.24% -0.24%
+0.24%

℄ 1063.58
℄ 1065.50

P-174 P-175 P-171 P-176 P-170

Exist. 8" Clay Tile
Exist. 6" Clay Tile
Exist. 15" Clay Tile
Exist. 6" Clay Tile
Exist. 5" Tile
Exist. 6" Clay Tile

1060.6 1060.16 1059.8 1059.2 1059.1 1059.8 1060.4 1060.2 1060.3 1061.3 1061.7 1061.8 1060.7 1060.0

136 137 138 139 140 141 142 143 144 145 146 147 148

Excavation	607 C.Y.
Embankment	70,008 C.Y.
Embankment +15 %	80,509 C.Y.

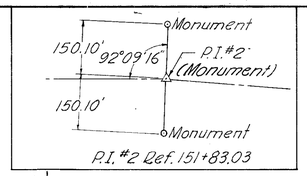
136 TO 148

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

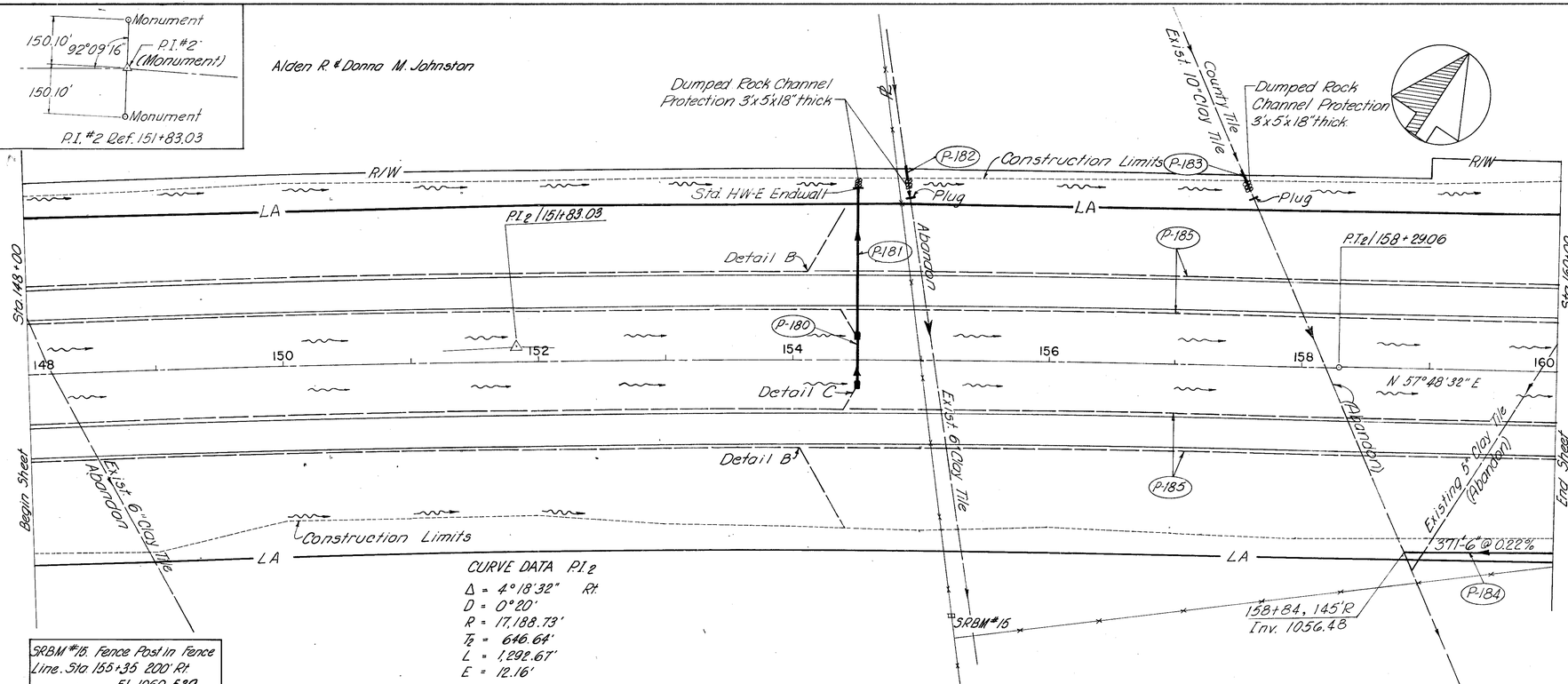
27/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00



Alden R & Donna M. Johnston

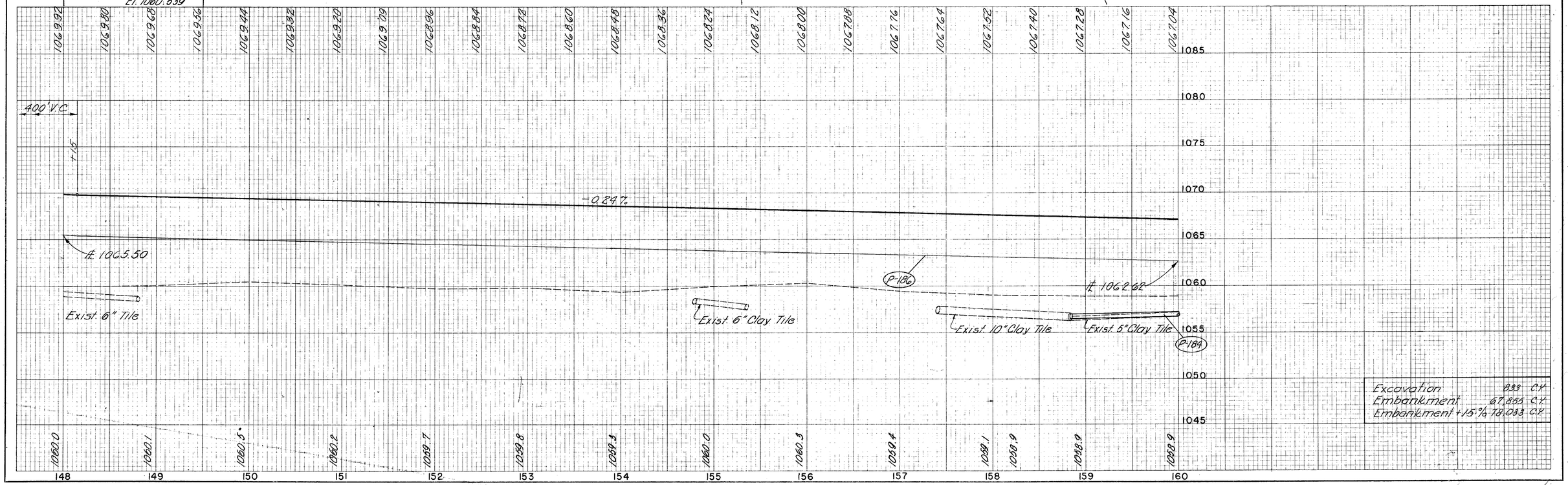


CURVE DATA P.I. 2
Δ = 4°18'32" Rt.
D = 0°20'
R = 17,188.73'
T_2 = 646.64'
L = 1,292.67'
E = 12.16'

SRBM #15. Fence Post in Fence Line. Sta 155+35 200' Rt. El. 1060.539

DRAINAGE		I-1							I-5	I-2	I-8	I-10
		6" Class I-3	6" Class F-1	8" Class F-1	12" Class F-1	12" Class A-1 M-66 (or M-86)	12" Class E-1	6" Class H-2	6" Class I-3	10" Class H-2	Masonry	No. 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	C.Y.
P-180	154+50						38					2	
P-181	154+50					117					23		1
P-182	154+88			10									1
P-183	157+52				10								1
P-184	158+84 to 160+00							116		1			
P-185	148+00 to 160+00	494	20	20					4				
	Total	494	20	30	10	117	38	116	4	1	23	2	3

Note: See Cross-Sections for Storm Sewer Profiles.

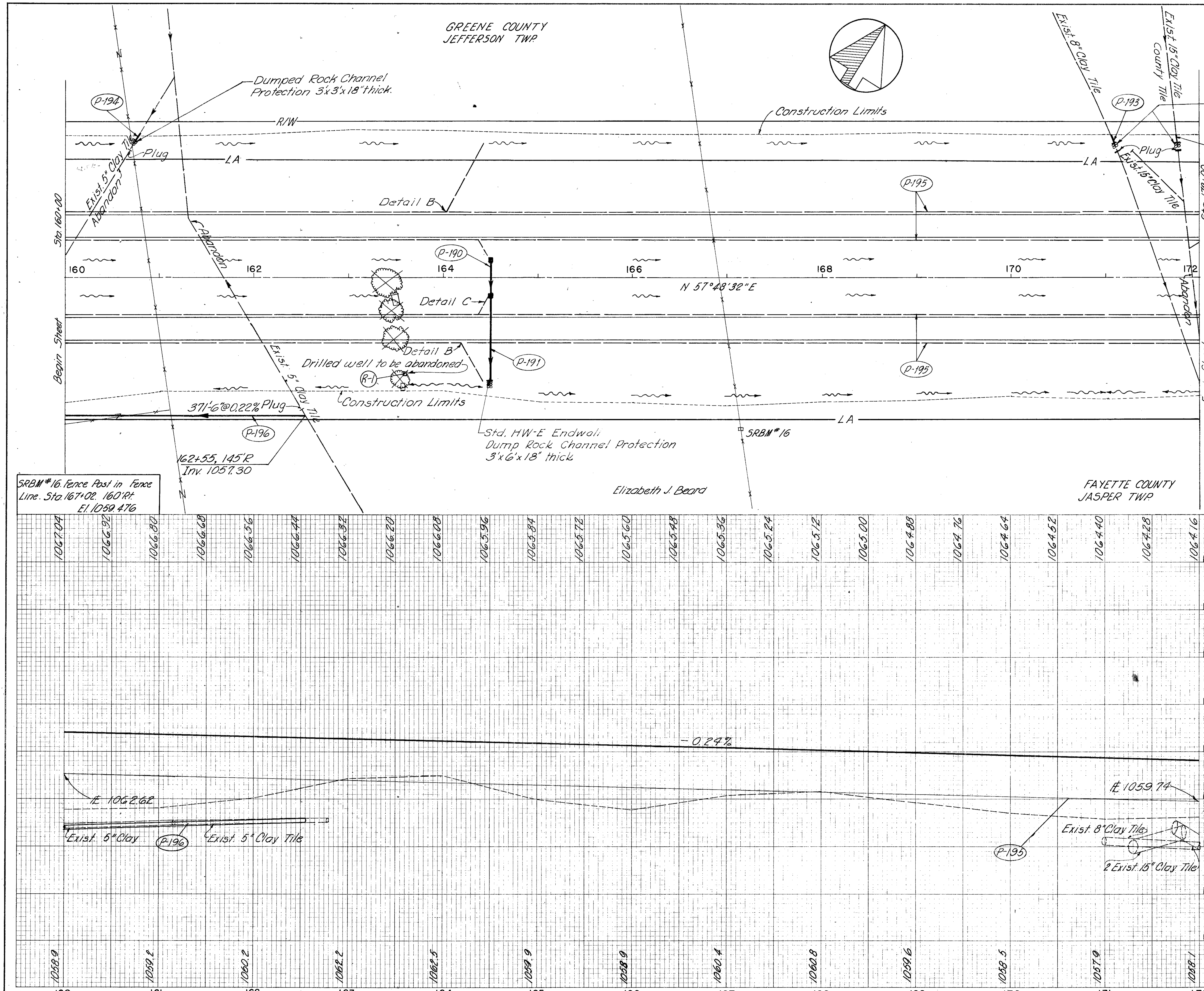


Excavation	833 C.Y.
Embankment	67,895 C.Y.
Embankment +15%	78,033 C.Y.

148 TO 160

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00



GREENE COUNTY
JEFFERSON TWP.
Dumped Rock Channel Protection 3'x3'x18" thick.
P-194
Plug
Exist. 5" Clay Tile Abandon
R/W
LA
Construction Limits
Detail B
Abandon
Sta 160+00
Begin Sheet
160
162
164
166
168
170
172
P-190
Detail C
N 57°48'32"E
Detail B
Drilled well to be abandoned
R-1
P-191
P-195
Exist. 5" Clay Tile
Construction Limits
371'-6"@0.22% Plug
P-196
162+55, 145'R
Inv. 1057.30
Std. HW-E Endwall
Dump Rock Channel Protection 3'x6'x18" thick
SRBM#16
SRBM#16. Fence Post in Fence Line. Sta. 167+02. 160'Rt.
El. 1059.476
Elizabeth J. Beard
FAYETTE COUNTY
JASPER TWP.
Exist. 8" Clay Tile
Exist. 15" Clay Tile
County Tile
P-193
Dumped Rock Channel Protection 3'x3'x18" thick.
P-192
Exist. 15" Clay Tile
Sta 172+00
End Sheet
1067.04
1066.92
1066.80
1066.68
1066.56
1066.44
1066.32
1066.20
1066.08
1065.96
1065.84
1065.72
1065.60
1065.48
1065.36
1065.24
1065.12
1065.00
1064.88
1064.76
1064.64
1064.52
1064.40
1064.28
1064.16
1085
1080
1075
1070
-0.24%
1065
1060
1055
1050
1045
℄ 1062.62
℄ 1059.74
Exist. 5" Clay
P-196
Exist. 5" Clay Tile
P-195
Exist. 8" Clay Tile
2 Exist. 15" Clay Tile
1058.9
1059.2
1060.2
1062.2
1062.5
1059.9
1058.9
1060.4
1060.8
1059.6
1058.5
1057.9
1058.1

DRAINAGE		I-1								I-5		I-2	I-8	I-10
		6" Class F-1	8" Class F-1	10" Class F-1	15" Class A-1 M-6.6 (or M-6.8 (b))	12" Class E-1	6" Class H-2	18" Class F-1	6" Class I-3	6" Class I-3	6" Class H-2	Masonry	No. 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	C.Y.
P-190	164+50					38							2	
P-191	164+50				95							.26		1
P-192	171+75							10						1
P-193	171+06			10										1
P-194	160+78		10											1
P-195	160+00 to 172+00	20	20						4920	4				
P-196	160+00 to 162+55						255				1			
	Total	20	30	10	95	38	255	10	4920	4	1	.26	2	4

Note: See Cross-Section for Storm Sewer Profiles.

ROADWAY		Special: Drilled Well Abandoned
	LOCATION	Ea.
R-1	163+60	1
	Total	1

Excavation	3,106 C.Y.
Embankment	43,984 C.Y.
Embankment + 15%	50,582 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

29/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

FAYETTE COUNTY
JASPER TWP.

Std. HW-E Endwall, Dumped Rock Channel Protection 3'x5'x18" thick.

Elizabeth J. Beard

Dumped Rock Channel Protection, 3'x3'x18" thick.

Exist. 4" Clay Tile

N 5° 33' 32" E

P203

Plug

Abandon

Detail B

Detail C

P201

P200

Sta. 173+93.70

Sta. 172+00

Sta. 184+00

R/W

LA

Construction Limits

℄ Crossover Sta. 174+00
See Detail Sheet #63

P202

N 57° 48' 32" E

P205

Detail B

Detail C

Begin Sheet

End Sheet

Exist. 15" Clay Tile

Exist. 8" Clay Tile

GREENE COUNTY

FAYETTE COUNTY

SRBM #17

SRBM #17. Fence Post in Fence Line. Sta. 174+45. 160' Rt. El. 1058.785

Jack Pursley

P204

Dumped Rock Channel Protection 20'x6'x30"

Tacked Hub

151.03'

96°41'30"

151.03'

Tacked Hub

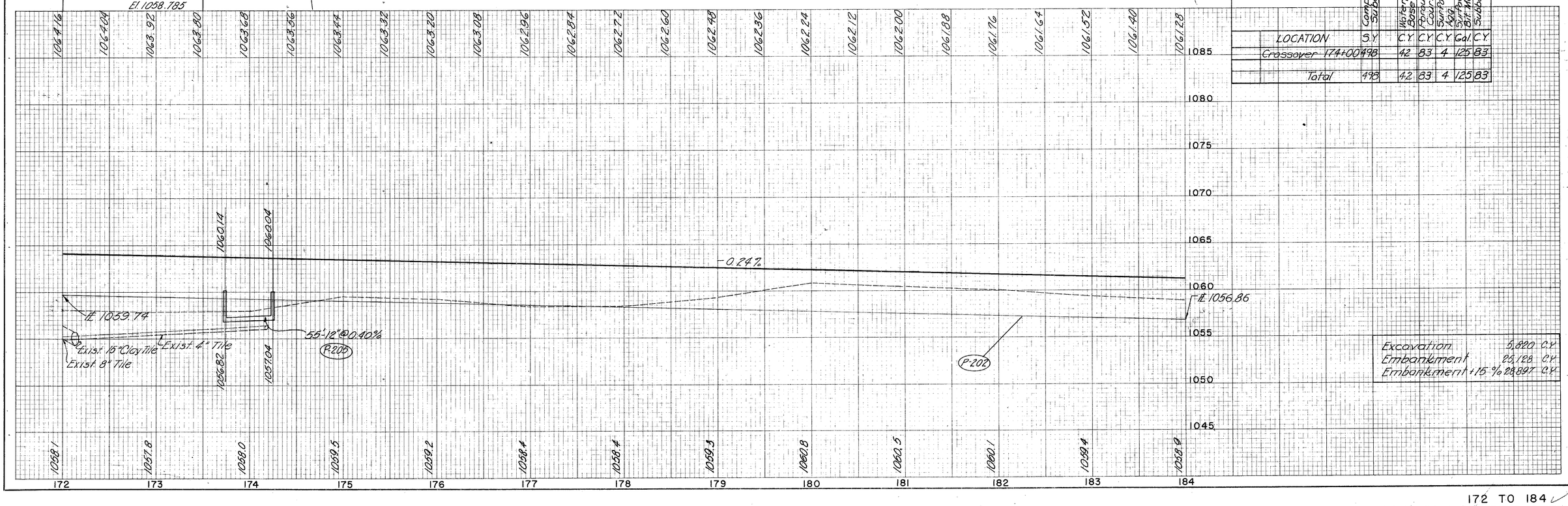
℄ Ref. 174+34.00

DRAINAGE		I-1				I-2	I-8	I-10	I-1	I-5
		15" Class A-1 Modular-Web (b)	12" Class E-1	6" Class F-1	6" Class I-3	Masonry	No. 8 CB	Dumped Rock	8" Class F-1	12" Class B-1	6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	L.F.	L.F.	Ea.
P-200	174+50		10				2				
P-201	174+50	120				26		1			
P-202	172+00 to 184+00			20	4920				20		4
P-203	174+07			10				1			
P-204	183+75							11			
P-205	173+74 to 174+25						1			55	
	Total	120	10	30	4920	26	3	13	20	55	4

Note: See Cross-Section for Storm Sewer Profiles

ROADWAY AND PAVEMENT		E-1	B-21	B-112	T-31	T-31	I-22
		Compacted Subgrade	Waterproofed Agg. Base Course	Bituminous Base Course	Surface Treatment	Agg.	Surface Treatment Bit. Material
LOCATION		S.Y.	C.Y.	C.Y.	C.Y.	Gal.	C.Y.
Crossover 174+00		498	42	83	4	125	83
Total		498	42	83	4	125	83

Excavation	5,820 C.Y.
Embankment	25,128 C.Y.
Embankment +15 %	28,897 C.Y.

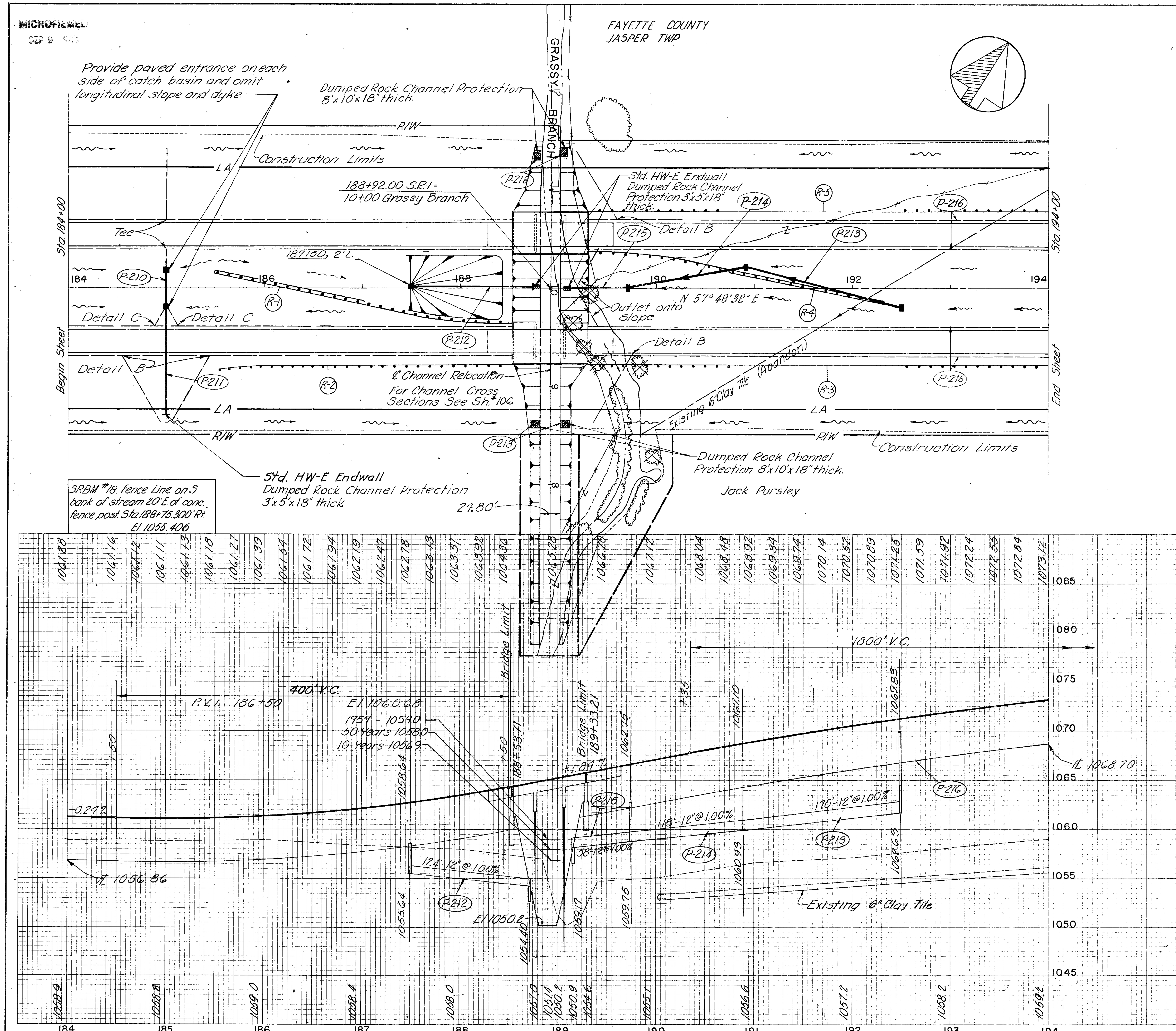


172 TO 184

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE I- 1.108 FAY I-0.00



DRAINAGE		I-1	I-1	I-1	I-1	I-1	I-2	I-8	I-10	I-5
		18" Class A-1 M-6.6(a) or M-6.8(b)	12" Class E-1	6" Class F-1	8" Class F-1	6" Class I-3	Masonry	No. 8 C.B.	Dumped Rock	6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	Ea.
P-210	185+00		38					2		
P-211	185+00	116					.30		1	
P-212	187+50 to 188+74		124				.23	1	1	
P-213	190+90 to 192+50		170					2		
P-214	189+70 to 190+90		118					1		
P-215	189+12 to 189+70		58				.23		1	
P-216	184+00 to 194+00			30	70	4066				10
P-218	188+92								18	
	Total	116	508	30	70	4066	.76	6	21	10

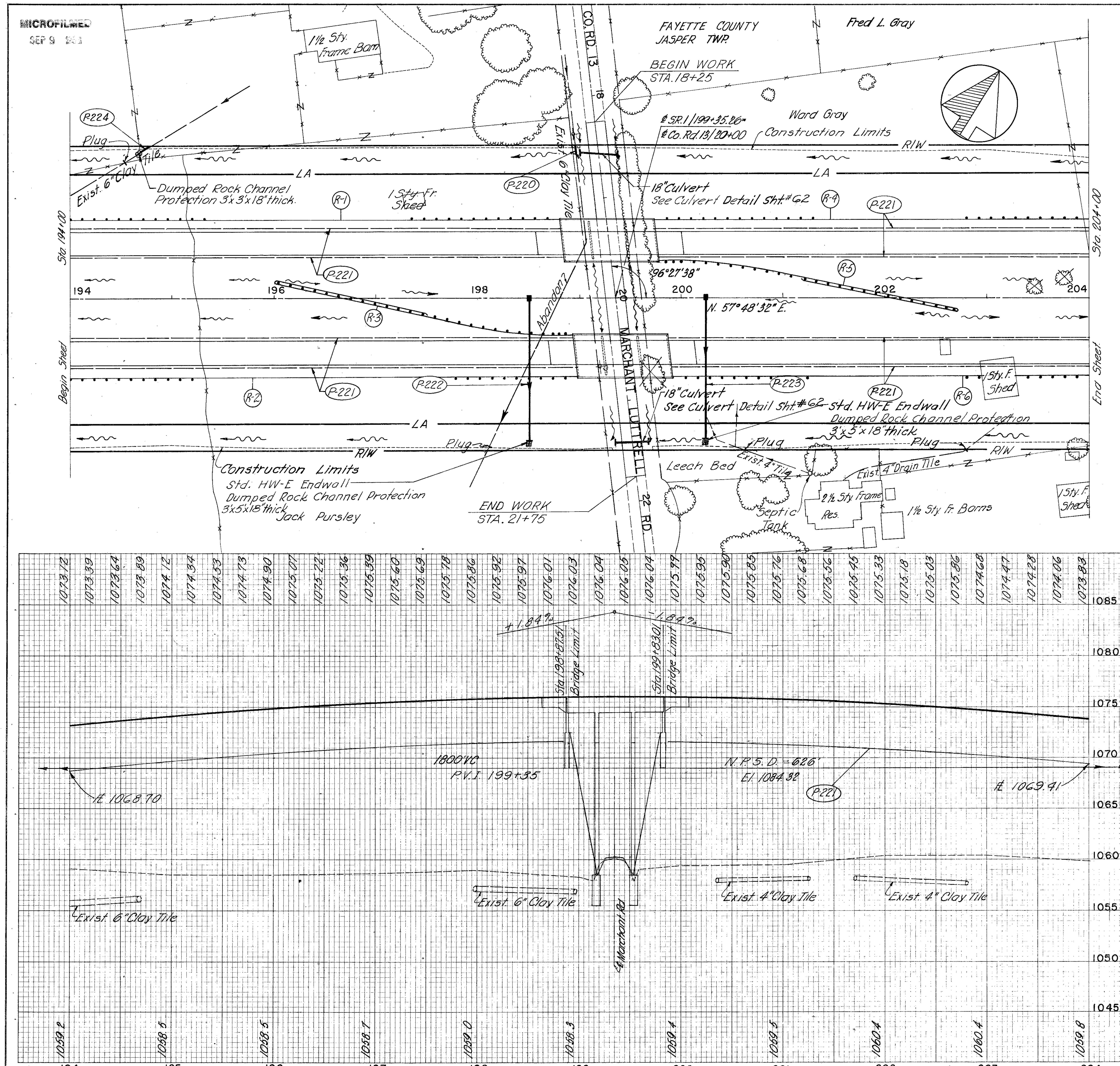
Note: See Cross-Section for Storm Sewer Profiles

ROADWAY		I-15	I-15
		Guard Rail Std. Type	Guard Rail Barrier Type
	LOCATION	L.F.	L.F.
R-1	185+50 to 188+50	150	150
R-2	185+50 to 188+50	300	
R-3	189+30 to 194+00	463	
R-4	189+30 to 192+30	150	150
R-5	189+30 to 194+00	463	
	Total	1526	300

FAY-I-0028 L & R
PROPOSED STRUCTURE
TYPE 3 Span Continuous Concrete Slab on Capped Pile Substructure
SPAN 24.00' - 30.00' - 24.00' ℄ Brgs.
LOAD FREQUENCY RATING CF = 2000 (57)
ROADWAY 42' F/F Parapets
SKEW 0°00'00"
SURFACE COURSE 1" Monolithic
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

Excavation	4,406 C.Y.
Embankment	52,797 C.Y.
Embankment + 15%	60,717 C.Y.
CHANNEL EARTH WORK	
Excavation	2,400 C.Y.
Embankment	1,880 C.Y.
Embankment + 15%	2,162 C.Y.

MICROFILMED
SEP 9 1963



FED. RD. DIVISION	STATE	PROJECT			31
2	OHIO				162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

DRAINAGE		I-1						I-2	I-5	I-10	I-8	
		6" Class F-1	8" Class F-1	12" Class A-1 M-6.6(a) or M-6.8(b)	6" Class I-3	12" Class F-1		Masonry	12" Class F-1	Dumped Rock	No. 8 C.B.	
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.		C.Y.	Ea.	C.Y.	Ea.	
P-220	198+95		10									
P-221	194+00 to 204+00	40			3632							
P-222	198+50			105		34		.23	2	1	1	
P-223	200+25			105		32		.23	2	1	1	
P-224	194+76		10							1		
	Total	40	20	210	3632	66		.46	4	3	2	

Note: See Cross-Section for Storm Sewer Profiles

ROADWAY AND PAVEMENT		I-15				
		Guard Rail Std. Type	Guard Rail Barrier Type			
	LOCATION	L.F.	L.F.			
R-1	194+00 to 198+80	474.5				
R-2	194+00 to 199+00	493.25				
R-3	196+00 to 198+90	150	150			
R-4	199+70 to 204+00	420				
R-5	199+80 to 202+70	150	150			
R-6	199+90 to 204+00	410				
	18+25 to 21+75 Marchant					
	Total	2097.75	300			

FAY-1-0047 L & R

PROPOSED STRUCTURE

TYPE 3 Span Continuous Concrete Slab on reinforced concrete substructure
SPAN 29.00'-36.00'-29.00' c/c Brgs.
LOAD FREQUENCY RATING CF 2000 (57)
ROADWAY 42' f/f parapets
SKEW 6°27'38" R.F.
SURFACE COURSE 1" Monolithic
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

Excavation	2,973 C.Y.
Embankment	103,555 C.Y.
Embankment + 15%	119,088 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

FAYETTE COUNTY
JASPER TWP.

Fred L. Gray

Tacked Hub
Tacked Hub
99°11'30"
151.98'
471.87'
151.94'
℄
Tacked Hub
℄ Ref. 204+07.13

212+96, 150'L.
10" Inv. 1054.80
8" Inv. 1054.97

213+92, 150'L.
Inv. 1055.10

P-236
96'-8" @ 0.14%
Plug
Existing 8" Clay Tile (Abandon)
Exist. 8" Clay Tile

RIW
LA
Construction Limits
R-1
R-2
Detail B
P-230
P-231
P-232
P-233
P-234
P-235
Sta 204+00
Sta 216+00
204
206
208
210
212
214
216
N 57°48'32" E
336'-10" @ 0.14%
Abandon
For detail of median grading see profile ℄ sheet #57 Detail D
Begin Sheet
End Sheet
N
Construction Limits
211+42, 150'R.
Inv. 1054.33
FAY I-0.71
See Culvert Detail Sh.# 58
Std. HW-E Endwall
Dumped Rock Channel Protection
3'x 6' x 18" Thick
Exist. 8" Clay Tile
Ward Gray
SRBM #19
SRBM #19 Fence Post in Fence Line. Sta. 204+35 160' Rt.
El. 1060.403
SRBM #20 Fence Post in Fence Line. Sta. 214+82 397' Rt.
El. 1058.142

DRAINAGE		I-1								I-5	I-8		I-2	I-10	
		15" Class A-1 N-6.0(a) or N-8.0(b)	10" Class A-1 N-6.0(b) or N-8.0(b)	12" Class E-1	15" Class E-1	6" Class I-3	8" Class H-2	6" Class F-1	8" Class F-1	6" Class I-3	8" Class H-2	№ 8 C.B.	№ 2-28 C.B.	Masonry	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	Ea.	C.Y.	C.Y.
P-230	211+00	86		38								2			
P-231	211+00													26	1
P-232	213+00	83		38								2			
P-233	213+00					502								26	1
P-234	204+00 to 216+00							70	50	11					
P-235	212+18		336										2		
P-236	212+96 to 213+92						96				1				
	Total	169	336	38	38	502	96	70	50	11	1	4	2	52	2

Note: See Cross-Sections for Storm Sewer Profiles.

ROADWAY		I-15
		Guard Rail Std. Type
	LOCATION	L.F.
R-1	204+00 to 208+50	455
R-2	204+00 to 208+40	440
	Total	895

1073.83 1073.58 1073.33 1073.06 1072.77 1072.48 1072.17 1071.85 1071.52 1071.17 1070.81 1070.44 1070.05 1069.66 1069.25 1068.82 1068.39 1067.48 1066.56 1066.12 1065.70 1065.33 1064.98 1064.67 1064.38 1064.13 1063.92 1063.73 1063.58 1063.41 1063.38 1063.33 1063.30 1063.32 1063.36 1063.48 1063.60 1063.72 1063.84 1063.96 1064.08

1059.8 1058.8 1058.6 1059.7 1061.1 1059.4 1057.5 1057.2 1057.4 1057.3 1057.5 1058.4 1061.5

204 205 206 207 208 209 210 211 212 213 214 215 216

1085 1080 1075 1070 1065 1060 1055 1050 1045

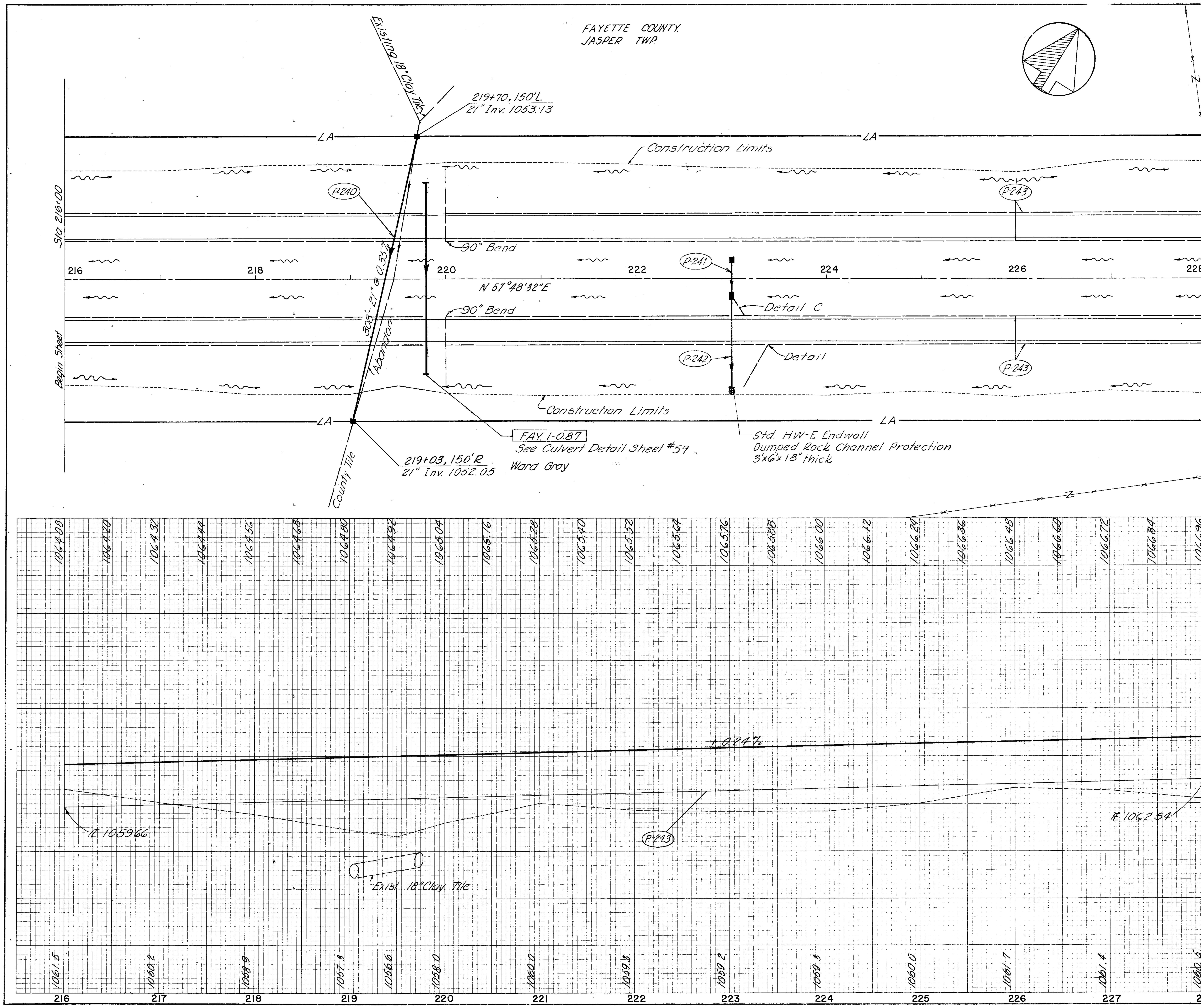
400' V.C.
P.V.I. 211+00 El. 106.2.88
+0.00
-1.84%
+0.24%
1800' V.C.
435
El 1069.41
Median Ditch Profile
1062.91
1062.00
1061.44
El 1059.66
Exist. 8" Clay Tile
Exist. 8" Clay Tile
P-234
P-230

Excavation	645 C.Y.
Embankment	62,906 C.Y.
Embankment + 15%	72,342 C.Y.

204 TO 216

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00



DRAINAGE		I-1							I-2	I-8		I-10	I-5	
		6" Class A-1 M-6.6(b) or M-6.8(b)	12" Class A-1 M-6.6(a) or M-6.8(b)	21" Class A-1 M-6.6(b) or M-6.8(b)	12" Class E-1	6" Class I-3	6" Class F-1	8" Class F-1	Masonry	No. 2-2B C.B.	No. 8 C.B.	Dumped Rock	6" Class A-1	6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	Ea.	C.Y.	Ea.	Ea.
P-240	219+36			308						2				
P-241	223+00				38						2			
P-242	223+00		92						.23			1		
P-243	216+00 to 228+00	152				4726	20	10					4	2
	Total	152	92	308	38	4726	20	10	.23	2	2	1	4	2

Note: See Cross-Sections for Storm Sewer Profiles.

Excavation	1,250 C.Y.
Embankment	48,306 C.Y.
Embankment + 15%	55,552 C.Y.

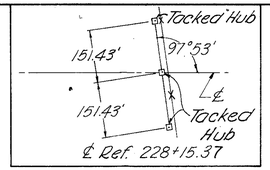
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

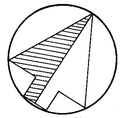
34
162

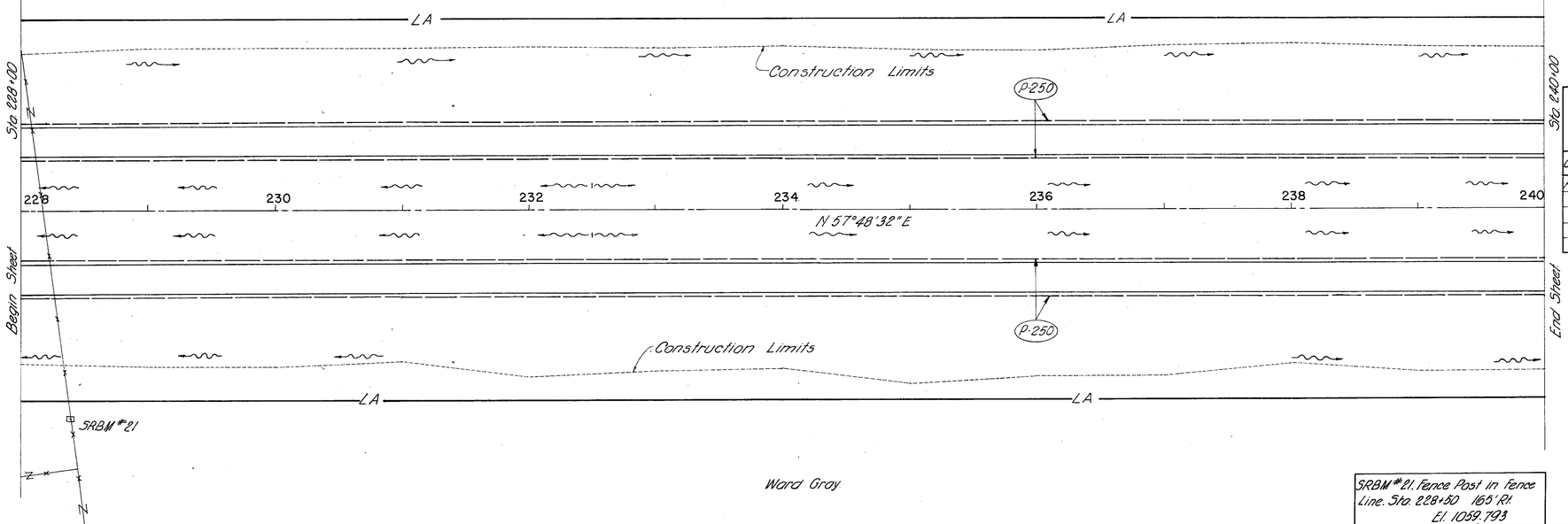
GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

FAYETTE COUNTY
JASPER TWP.



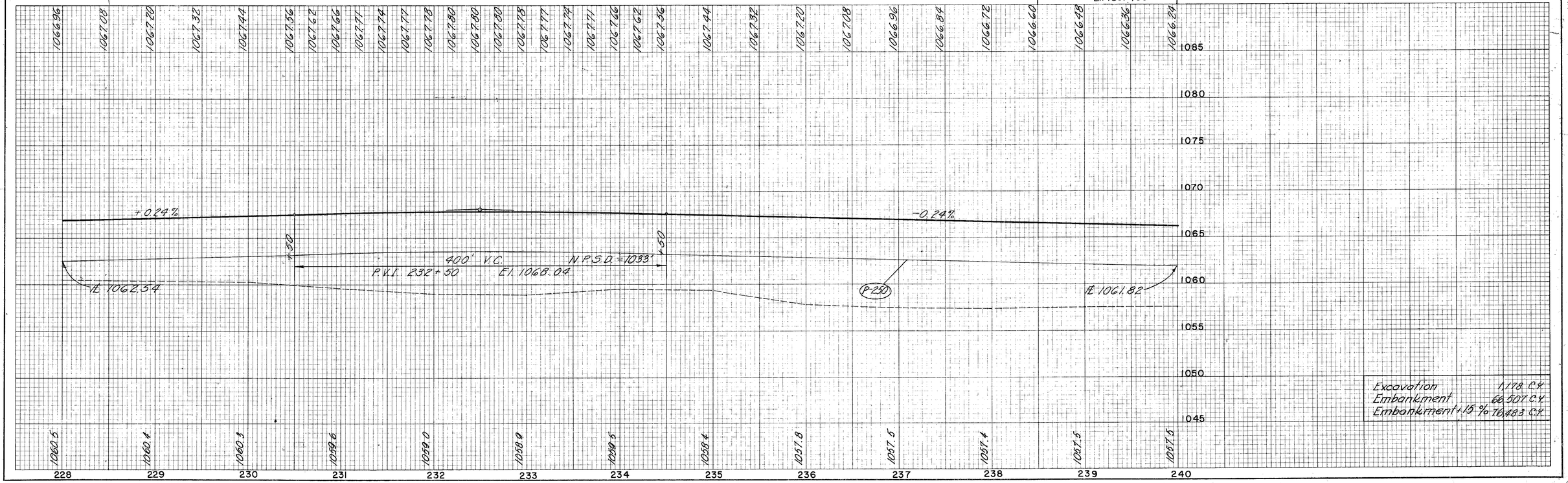




DRAINAGE		I-1
		6' Class I-3
CODE	LOCATION	L.F.
P-250	228+00 to 240+00	4800
	Total	4800

Ward Gray

SRBM #21. Fence Post in fence Line. Sta. 228+50 165' Rt. El. 1059.793

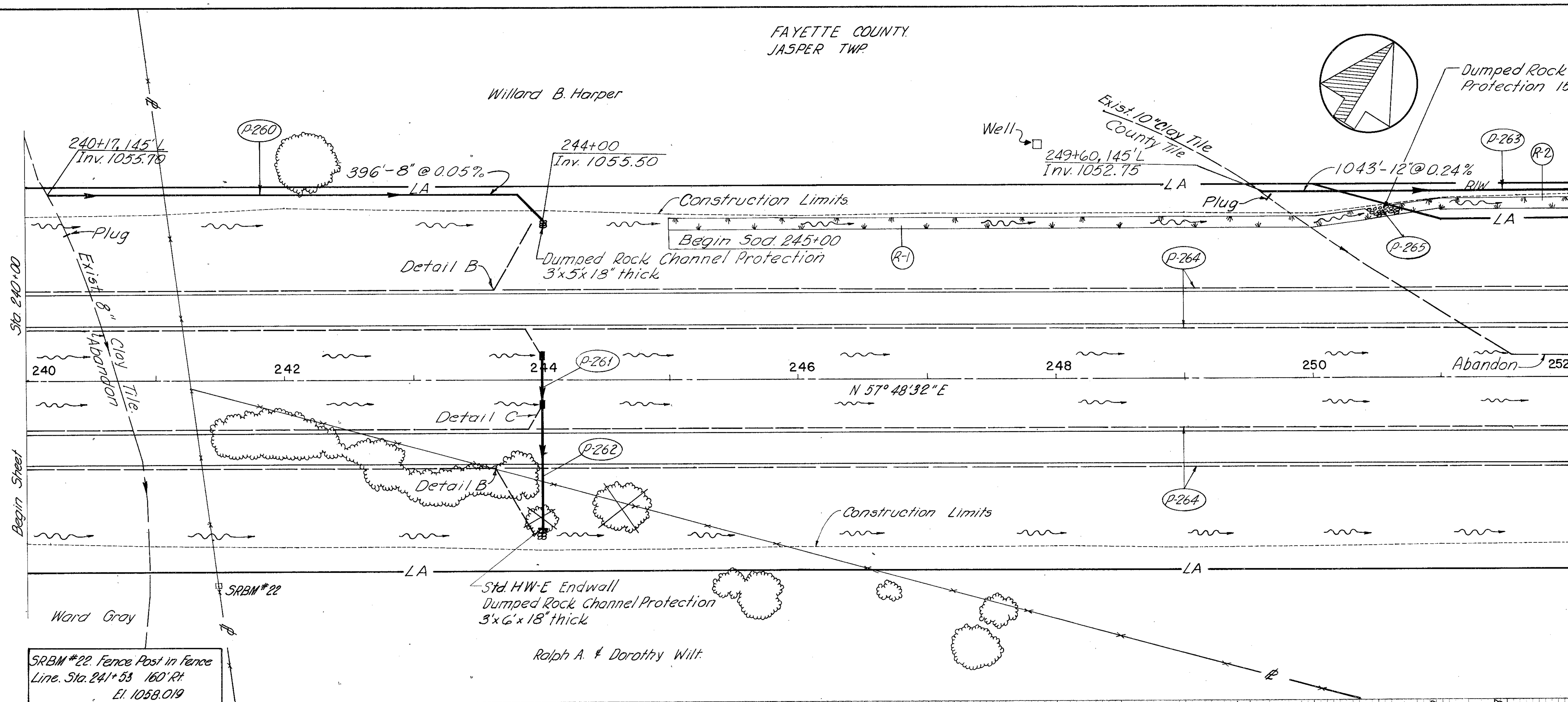


Excavation	1,178 C.Y.
Embankment	66,507 C.Y.
Embankment + 15 %	76,483 C.Y.

228 TO 240

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY. I-0.00

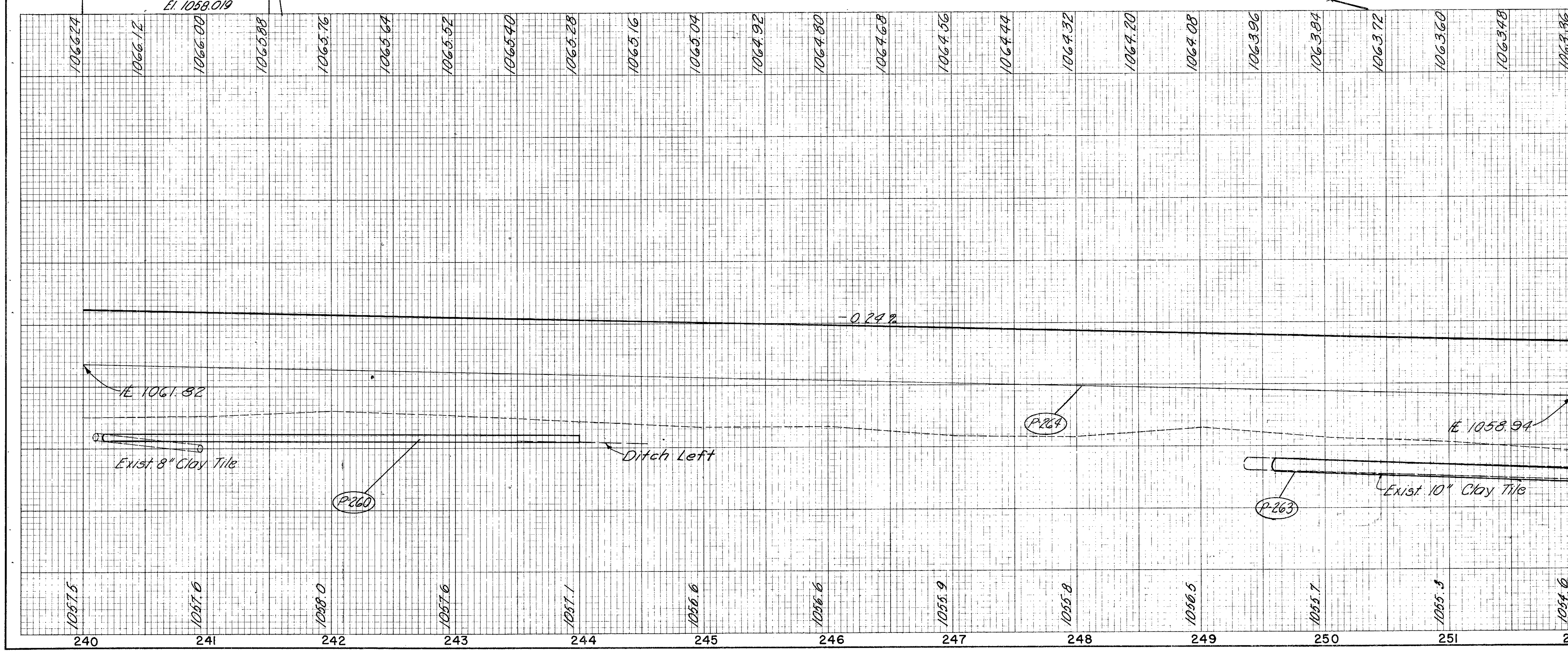


FAYETTE COUNTY
JASPER TWP.
Willard B. Harper
240+17, 145' L
Inv. 1055.70
P-260
396'-8" @ 0.05%
244+00
Inv. 1055.50
Well
Exist. 10" Clay Tile
County Tile
249+60, 145' L
Inv. 1052.75
Dumped Rock Channel Protection 15'x6'x30"
1043'-12" @ 0.24%
P-263
R-2
R/W
Plug
Construction Limits
Begin Sod 245+00
R-1
P-264
P-265
Dumped Rock Channel Protection 3'x5'x18" thick
Detail B
Exist. 8" Clay Tile Abandon
Sta. 240+00
Begin Sheet
240
242
244
246
248
250
252
P-261
N 57° 48' 32" E
Abandon
Detail C
P-262
Detail B
Construction Limits
Std. HW-E Endwall
Dumped Rock Channel Protection 3'x6'x18" thick
SRBM #22
Ward Gray
Ralph A. & Dorothy Wilt
SRBM #22 Fence Post in Fence Line. Sta. 241+53 160' Rt. El. 1058.019
Sta. 252+00
End Sheet

		I-1									I-5			I-2	I-8	I-10
DRAINAGE		12" Class A-1 M-6.6(a) or M-6.8(b)	12" Class H-2	12" Class E-1		10" Class F-1	8" Class H-2	6" Class F-1	8" Class F-1	6" Class I-3	6" Class I-3	8" Class H-2	12" Class H-2	Masonry	No. 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	Ea.	Ea.	Ea.	C.Y.	Ea.	C.Y.
P-260	240+17 to 244+00					10	386					2				1
P-261	244+00			38											2	
P-262	244+00	98												.23		1
P-263	249+60 to 252+00		240										1			
P-264	240+00 to 252+00							40	20	4892	4					
P-265	250+75															9
	Total	98	240	38		10	386	40	20	4892	4	2	1	.23	2	11

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY		L-10 Sodding
	LOCATION	S.Y.
R-1	245+00 to 250+45	726
R-2	250+85 to 252+00	102
	Total	828

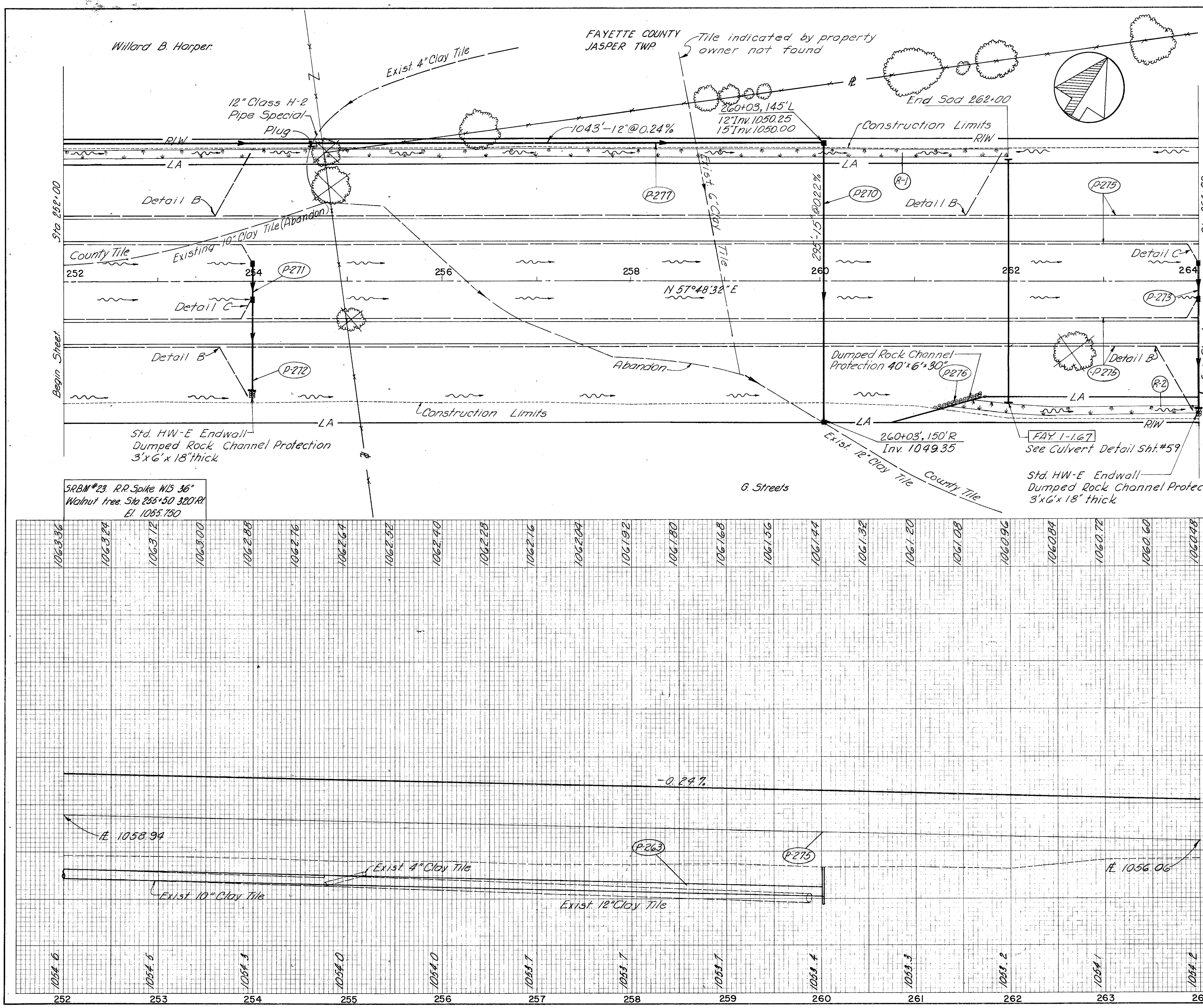


1062.24
1062.12
1062.00
1061.88
1061.76
1061.64
1061.52
1061.40
1061.28
1061.16
1061.04
1060.92
1060.80
1060.68
1060.56
1060.44
1060.32
1060.20
1060.08
1059.96
1059.84
1059.72
1059.60
1059.48
1059.36
1085
1080
1075
1070
1065
1060
1055
1050
1045
-0.24%
IE 1061.82
P-264
IE 1058.94
Exist. 8" Clay Tile
Ditch Left
P-260
P-263
Exist. 10" Clay Tile
1057.5
1057.0
1058.0
1057.6
1057.1
1056.6
1056.6
1055.9
1055.8
1056.5
1055.7
1055.3
1054.6
240
241
242
243
244
245
246
247
248
249
250
251
252

Excavation	2,029 C.Y.
Embankment	65,122 C.Y.
Embankment + 15%	74,890 C.Y.

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY. 1-0.00



Willard B. Harper
FAYETTE COUNTY
JASPER TWP.
Tile indicated by property owner not found
Exist. 4" Clay Tile
12" Class H-2 Pipe Special
Plug
1043'-12"@0.24%
260+03, 145'L
12" Inv. 1050.25
15" Inv. 1050.00
End Sod 262+00
Construction Limits
R/W
LA
Detail B
Sta 252+00
Existing 10" Clay Tile (Abandon)
County Tile
Exist. 6" Clay Tile
295'-15"@0.22%
Detail C
Sta 264+00
252
254
256
258
260
262
264
N 57°48'32" E
Begin Sheet
End Sheet
Abandon
Dumped Rock Channel Protection 40'x6'x30"
Std. HW-E Endwall
Dumped Rock Channel Protection 3'x6'x 18" thick
260+03', 150'R
Inv. 1049.35
Exist. 12" Clay Tile
FAY 1-1.67
See Culvert Detail Sht. #59
G. Streets
SRBM #23. R.R. Spike W15 36" Walnut tree. Sta 255+50 320' Rt. El. 1055.750
-0.24%
℄ 1058.94
℄ 1056.06
Exist. 4" Clay Tile
Exist. 10" Clay Tile
Exist. 12" Clay Tile
P-263
P-275
1085
1080
1075
1070
1065
1060
1055
1050
1045

DRAINAGE		I-1								I-5		I-2	I-8		I-10
		12" Class A-1 M-6.6(a) or M-6.8(b)	15" Class A-1 M-6.6(b) or M-6.8(b)	6" Class F-1	8" Class F-1	12" Class E-1		6" Class I-3	12" Class H-2	6" Class I-3	12" Class H-2	Masonry	No. 2-2B C.B.	No. 8 C.B.	Dumped Rock
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.		L.F.	L.F.	Ea.	Ea.	C.Y.	Ea.	Ea.	C.Y.
P-270	260+03		295										2		
P-271	254+00					38								2	
P-272	254+00	98										.23			1
P-273	264+00					38								2	
P-274	264+00	116										.23			1
P-275	252+00 to 264+00			120	40			4999		8					
P-276	261+50														22
P-277	252+00 to 260+03								803		1				
	Total	214	295	120	40	76		4999	803	8	1	.46	2	4	24

Note: See Cross-Sections for Storm Sewer Profiles.

ROADWAY		I-10
		Sodding
	LOCATION	S.Y.
R-1	252+00 to 262+00	889
R-2	261+70 to 264+00	204
	Total	1093

Excavation	1,519 C.Y.
Embankment	63,718 C.Y.
Embankment +15%	73,276 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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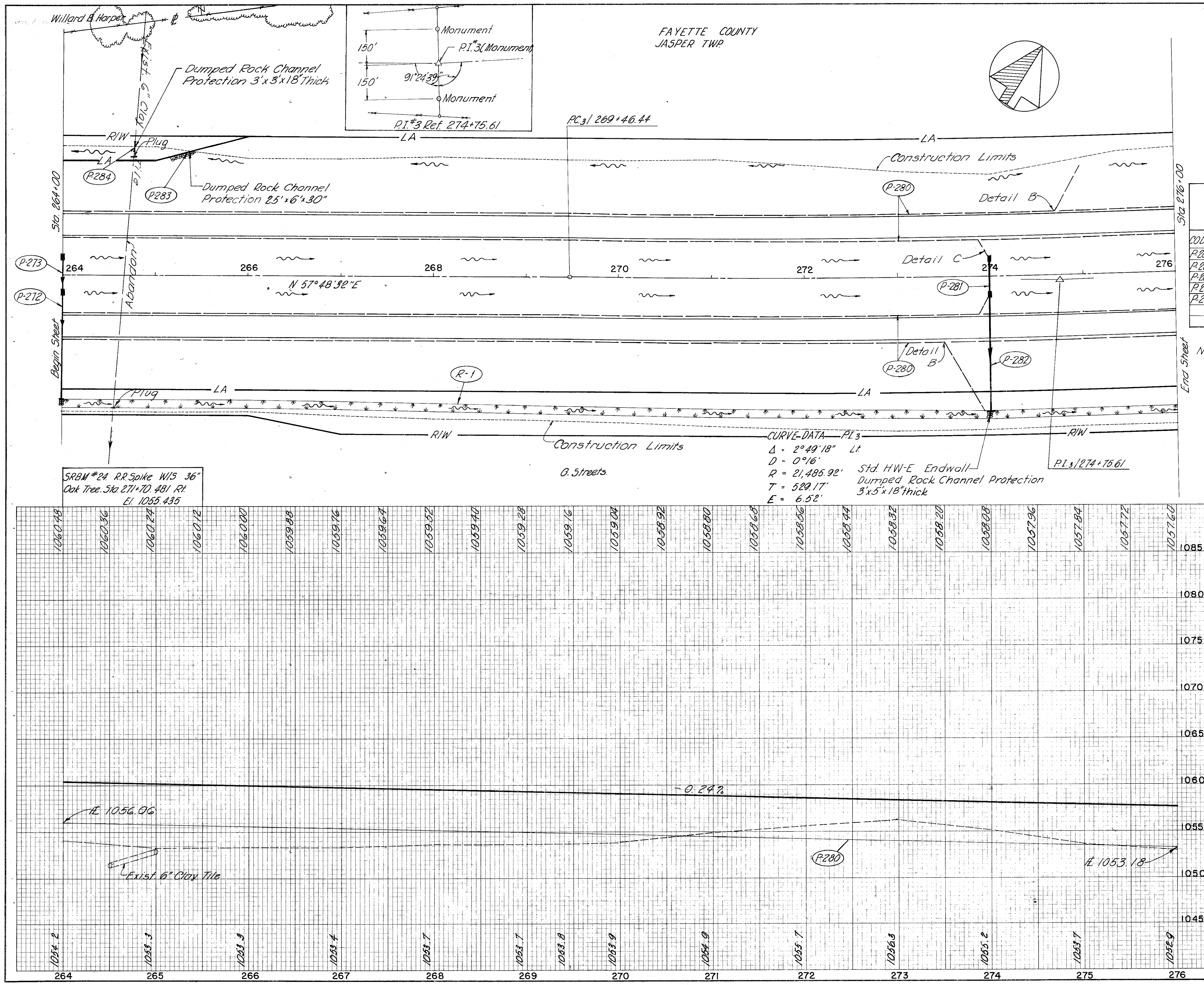
GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00



DRAINAGE		I-1: 12" Class A-1 M-6.6(a) or M-6.8(b)	I-1: 12" Class E-1	I-1	I-1: 6" Class I-3	I-2: Masonry	I-8: No. 8 C.B.	I-10: Dumped Rock	I-1: 8" Class F-1	I-1: 6" Class F-1	I-5: 6" Class I-3
CODE	LOCATION	L.F.	L.F.			C.Y.	Ea.	C.Y.	L.F.	L.F.	Ea.
P-280	264+00 to 276+00				4927				20	40	4
P-281	274+00		38				2				
P-282	274+00	126				.23		1			
P-283	265+50							14			
P-284	264+75							1	10		
	Total	126	38		4927	.23	2	16	30	40	4

Note: See Cross-Sections for Storm Sewer Profiles

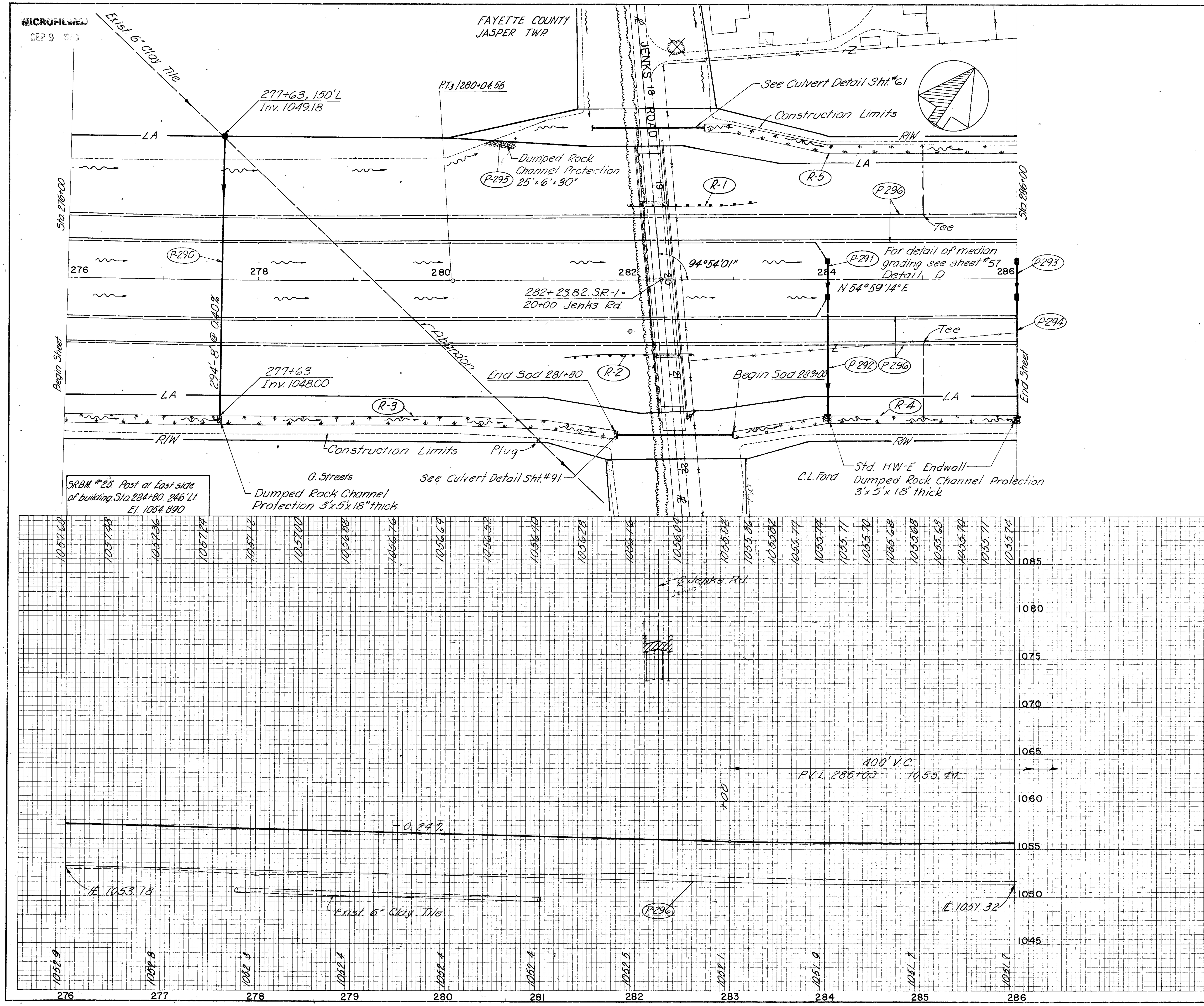
ROADWAY		I-10: Sodding
	LOCATION	S.Y.
R-1	264+00 to 276+00	1068
	Total	1068

Excavation	1,099 C.Y.
Embankment	34,315 C.Y.
Embankment +15%	39,462 C.Y.

264 TO 276

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00



DRAINAGE		I-1								I-2	I-8	I-10	I-5	I-8
		12" Class A-1 M-6.6(a) or M-6.8(b)	12" Class E-1		10" Class F-1	8" Class A-1 M-6.6(b) or M-6.8(b)	6" Class I-3	6" Class F-1	8" Class F-1	Masonry	No. 8 C.B.	Dumped Rock	6" Class I-3	No. 2-2B C.B.
CODE	LOCATION	L.F.	L.F.		L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	Ea.	Ea.
P-290	277+63				10	284						1		1
P-291	284+00		38								2			
P-292	284+00	126								.23		1		
P-293	286+00		38								2			
P-294	286+00	126								.23		1		
P-295	280+50											14		
P-296	276+00 to 286+00						4103	60	20				4	
	Total	252	76		10	284	4103	60	20	.46	4	17	4	1

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY		I-15	L-10		
		Guard Rail Std. Type	Sodding		
	LOCATION	L.F.	S.Y.		
R-1	282+00 Lt.	137.5			
R-2	282+00 Rt.	137.5			
R-3	276+00 to 281+77		513		
R-4	283+00 to 286+00		266		
R-5	282+70 to 286+00		294		
	Total	275	1073		

Excavation	1,066 C.Y.
Embankment	23,222 C.Y.
Embankment + 15%	26,705 C.Y.

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

FAYETTE COUNTY
JASPER TWP.

Note: Marker will be furnished and erected on the left by the State before acceptance of this project.

Tacked Hub
150'
℄
90°
150'
Tacked Hub
℄ Ref. 289+63.56

END PROJECT
GRE. I-1.08 FAY. 1-0.00
S.L.M. 2.35
STA. 298+00

Tacked Hub
150'
℄
90°
150'
Monument
℄ Ref. 298+00

Sta 286+00
Begin Sheet
Sta 298+00
End Sheet
R/W
LA
Construction Limits
R-1
R-2
P-320
P-321
P-322
P-293
P-294
Detail D
N 54°59'14"E
Std. HW-E Endwall
Dumped Rock Channel Protection
3'x5'x18" thick
SRBM #26
C.L. Ford
Std. HW-E Endwall
Dumped Rock Channel
Protection 3'x5'x18" thick
1-71-1(14) G2

DRAINAGE		I-1				I-2	I-8	I-10	I-5
		6" Class I-3	12" Class A-1 M 4.04 or M 6.01(B)	12" Class E-1	6" Class F-1	Masonry	No. 8 C.B.	Dumped Rock	6" Class I-3
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.	C.Y.	Ea.
P-320	286+00 to 298+00	4808			40				2
P-321	296+00			38			2		
P-322	296+00		127			23		1	
	Total	4808	127	38	40	23	2	1	2

Note: See Cross-Sections for Storm Sewer Profiles

ROADWAY		I-10
		Sodding
	LOCATION	S.Y.
R-1	286+00 to 298+00	1068
R-2	286+00 to 298+00	1068
	Total	2136

SRBM #26, Fence Post in Fence Line, Sta. 296+38, 160' Rt.
El. 1052.265

1055.74 1055.77 1055.82 1055.86 1055.92 1056.04 1056.16 1056.28 1056.40 1056.52 1056.64 1056.76 1056.88 1057.00 1057.12 1057.24 1057.36 1057.48 1057.60 1057.72 1057.84 1057.96 1058.08 1058.20 1058.32 1058.44 1058.56

1085
1080
1075
1070
1065
1060
1055
1050
1045

400' V.C.
+0.00
+0.29 %
E 1051.32
E 1054.14
P-320
Earthwork shall be non-performed if completed by the adjacent project

1051.7 1051.8 1051.5 1051.3 1051.3 1051.9 1052.0 1052.0 1051.7 1052.1 1052.9 1052.5 1051.7

286 287 288 289 290 291 292 293 294 295 296 297 298

Excavation	6,432 C.Y.
Embankment	0 C.Y.
Embankment +15%	0 C.Y.

286 TO 298

FED. RD. DIVISION	STATE	PROJECT		40 / 162
2	OHIO			

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

FAYETTE COUNTY
JASPER TWP

END WORK
STA. 303+45

Exist. 12" Clay Tile

Exist. 15" Clay Tile

End Sod 299+35

Construction Limits

R/W

LA

R-1

P-332

Sta 298+00

Exist. 18" Clay Tile

Proposed Culvert by others

298 300 302 304 306 308

N54°59'14"E

Exist. 4" Clay Tile

Sta 308+00

Begin Sheet

End Sheet

P-332

End Sod 300+00

R-2

P-331

ALLEN DITCH

P-330

Exist. 8" Clay Tile

C.L. FORD

Remove Existing Headwall

Construction Limits

Exist. 15" Clay Tile

Dumped Rock Channel Protection 3'x5'x18" thick.

Note: Items P-330, P-331, P-332, R-1, and R-2 shall be non-performed, if completed by the adjacent project.

Note: The Typical Section on Sheet No. 3 is also typical for the adjoining project.

DRAINAGE		I-1 18" Class F-1	I-1 15" Class H-2	I-8 Dumped Rock	S-24 Removal of Exist. Structures	I-1 6" Class I-3
CODE	LOCATION	L.F.	L.F.	S.Y.	Lump	L.F.
P-330	301+69 to 301+86	10	55	1		
P-331	302+47				Lump	
P-332	298+00 to 298+10					40
	Total	10	55	1	Lump	40

Note: See Cross-Section for Storm Sewer Profiles.

ROADWAY		I-10
	LOCATION	S.Y.
R-1	298+00 to 299+35	120
R-2	298+00 to 300+00	178
	Total	298

1058.56 1058.68 1058.80

1080 1075 1070 1065 1060 1055 1050 1045 1040

500' V.C.

P.V.I. 302+00

El. 1059.52

+2.00%

1800 V.C.

298+50

+0.24%

4:1

El. 1054.16 Sta. 298+10

P-332

Earthwork shall be non-performed if completed by the adjacent project.

Exist. 18" Clay Tile

Exist. 15" Clay Tile

Exist. 4" Clay Tile

1051.7 1060.0 1046.1 1045.0 1046.5 1041.6 1049.5 1049.4 1042.8 1041.2 1046.8 1047.5 1047.8

298 299 300 301 302 303 304 305 306 307 308

Excavation	1,704	C.Y.
Embankment	0	C.Y.
Embankment +15%	0	C.Y.

298 TO 308

FED. RD. DIVISION 2 STATE OHIO PROJECT
41
162
GREENE & FAYETTE COUNTIES
GRE 1-1.08 FAY 1-0.00
GREENE COUNTY
JEFFERSON TOWNSHIP
Sta.10+00 P.K.
¢ Orchard Grove Rd.
P.K. in 24" Walnut
P.K. in 30" Oak
¢ Ref. Sta 10+00
Feather T-35 from 2" Min. at 8+75 to 0" at 8+50 Widen Base with 6" B-19 on 4" I-22
¢ 16' Field Drive 9+78
Wilber C. & Hazel Beard
ORCHARD GROVE ROAD
See Culvert Detail Sheet 60
Construction Limits
37+70.68 ¢ S.R.-1 = 20+00 Orchard Grove Rd
88°44'27"
10" C.I. Pipe
Exist 8" Clay Tile (Abandon)
Dumped Rock Channel Protection 3'x6'x18" thick
Plug
205'±15" @ 0.20%
¢ Field Drive 11+10
2" T-32 Wearing Course
12" B-19 Base Course
¢ Temporary Runaround
Temporary R/W
16+36, 66' R Inv. 1063.87
18+40, 75' R Inv. 1063.46
P.I. Temporary Runaround 94' Right Sta 19+40 Δ = 5°34'54" D = 2°00'
BEGIN WORK STA. 7+50
BEGIN NEW PAVEMENT STA. 9+00
EXISTING TYPICAL PAVEMENT
4'± 8'0" 8'0" 4'±
C. & C. Eddy
Wilber C. Beard
Lulia A. Chitty
Note: For Quantities See Next Sheet.
400' VC H.L.S.D. = 419'
P.V.I. 14+25
El. 1075.05
-0.48%
+4.00%
700' V.C.
N.P.S.D. = 357'
P.V.I. 20+00
El. 1098.05
Bridge Limit
Existing Grade
54" Culvert
2 Exist. 8" Clay Tile
50'-12"
40'-12"
PROPOSED STRUCTURE
TYPE 4 Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.25 - 81.75 - 81.75 - 57.25 ¢ Brgs.
LOAD FREQUENCY RATING C.F. = 130(57)
ROADWAY 24" F/F curb
SKEW 1°15'33" R.F.
SURFACE COURSE 3/4" Monolithic
APPROACH SLABS Special (25' long)
ALIGNMENT Tangent
SUPERELEVATION None
GRE-1-0148

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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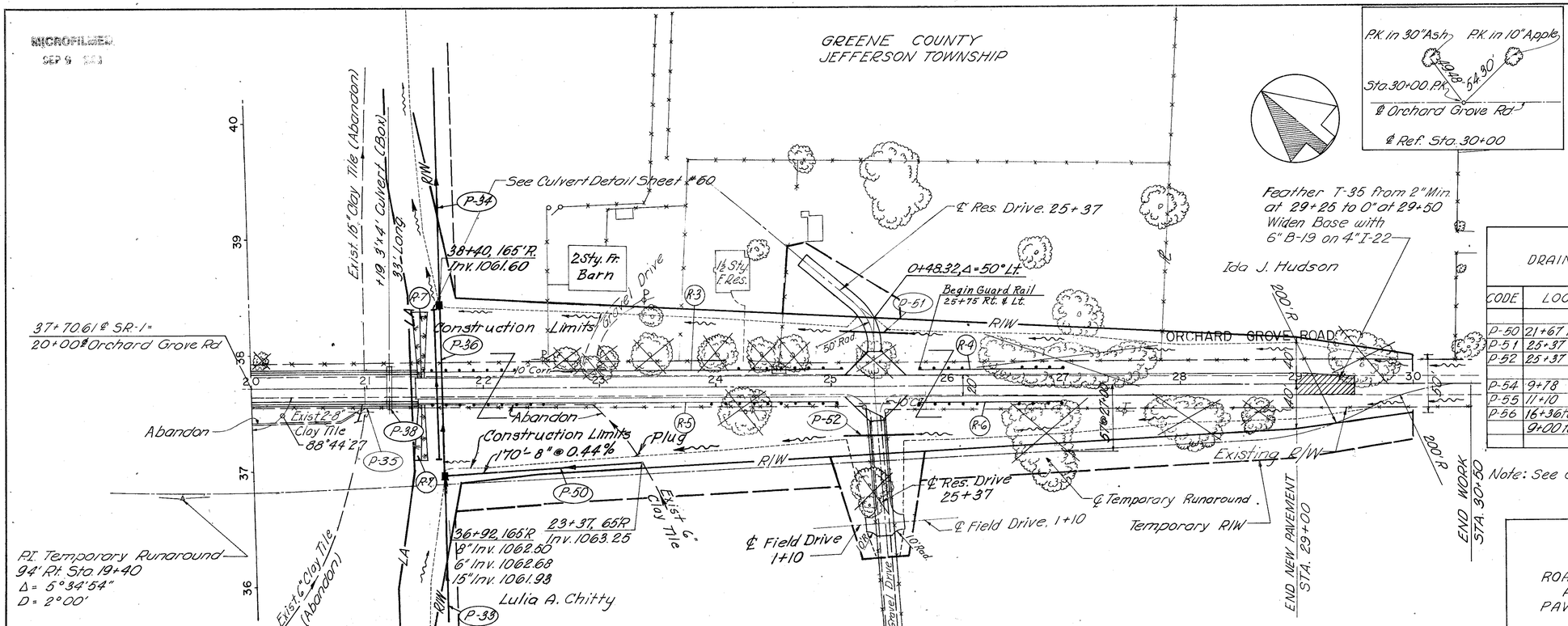
GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY. I-0.00

GREENE COUNTY
JEFFERSON TOWNSHIP



DRAINAGE		I-1					I-9 I-10		I-5
		12" Class F-1	8" Class H-2	15" Class H-2	15" Class F-1	18" Class F-1	Stone Underdrain	Dumped Rock	8" Class H-2
CODE	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	C.Y.	Ea.
P-50	21+67 to 23+37		170					1	
P-51	25+37	60							
P-52	25+37			60					
P-54	9+78	50							
P-55	11+10	40							
P-56	16+36 to 18+40		195	10			1		2
	9+00 to 29+25						522		
	Total	150	170	195	60	10	522	1	2

Note: See Cross-Sections For Storm Sewer Profiles.

ROADWAY AND PAVEMENT

LOCATION		I-15 Guard Rail L.F.	L-10 Standard Type Special Berm and Slope Protection S.Y.	B-19 Aggregate Base Course C.Y.	E-1 Compacted Subgrade S.Y.	I-7 Portland Cement Concrete Pavement 7" Slab S.Y.	I-22 Subbase C.Y.	T-30 Tack Coat gal.	T-30 Prime Coat gal.	T-35 Surface Course C.Y.	S-15 Temporary Runaround Surface Course Bituminous Concrete Ton
R-1	11+10 to 18+55	750									
R-2	11+50 to 18+55	725									
R-3	21+45 to 25+05	3625									
R-4	25+75 to 27+00	125									
R-5	21+45 to 25+05	3625									
R-6	25+75 to 27+00	125									
	8+50 to 9+00					3		2	9	3	
	9+00 to 29+00					649	3815	159	466	1483	206
	29+00 to 29+50					3		2	9	3	
	Drive @ 9+78					16					
	Drive @ 17+10					15					
	Drive @ 25+37 Rt.					44				4	
	Drive @ 25+37 Lt.					40				4	
	7+50 to 30+50									lump	134
R-7	18+50 & 21+50 Rt. & Lt.	270									
	Total	9428	270	170	3815	159	470	18	1483	220	lump 174

Excavation	1,189 C.Y.
Embankment	47,369 C.Y.
Embankment +15%	54,474 C.Y.

ORCHARD GROVE ROAD 20 TO 30

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

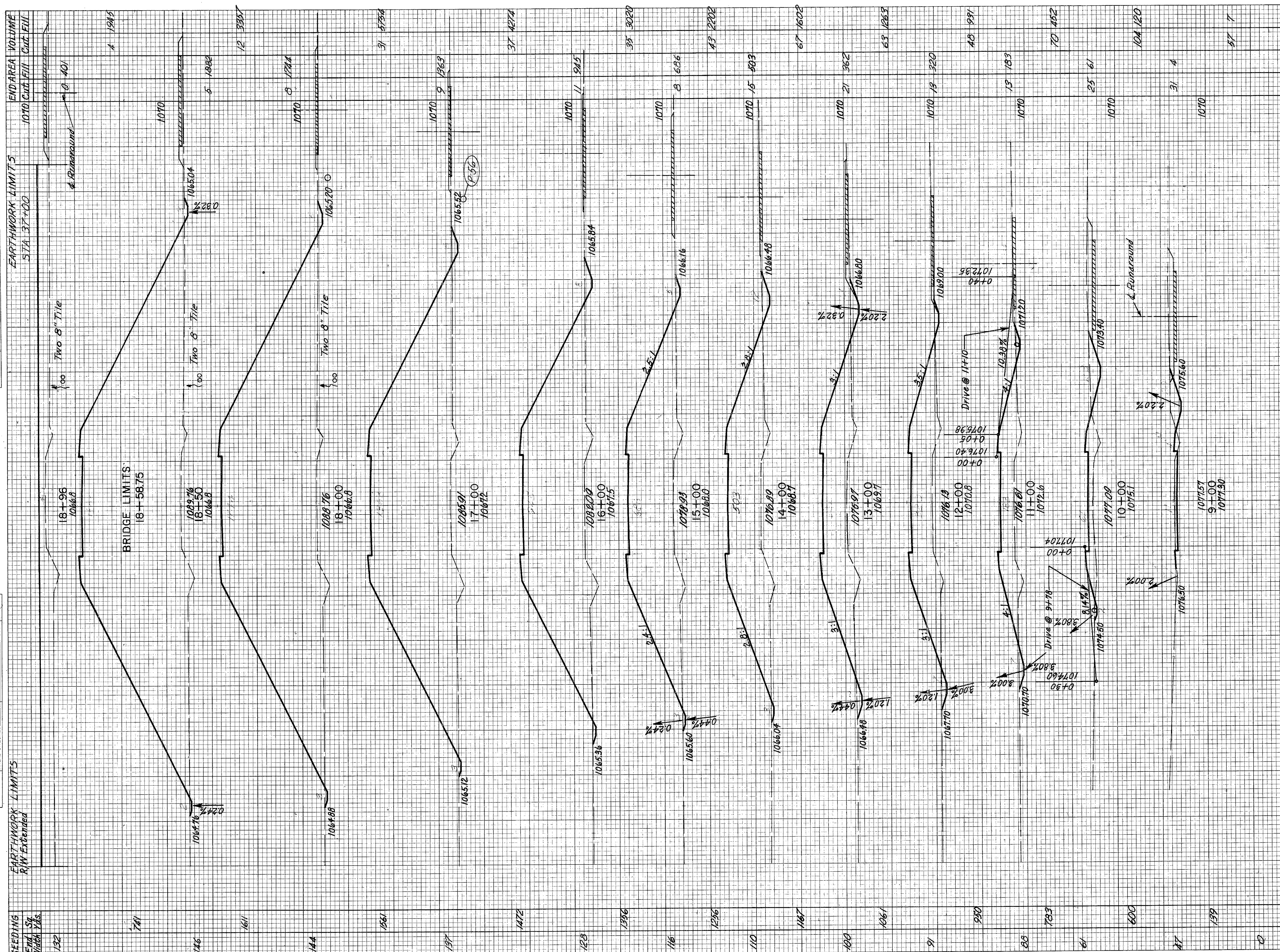


PLATE 3 - CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

ORCHARD GROVE ROAD 7 TO 20

GREENE & FAYETTE COUNTIES
FAY I-0.00
GRE I-1.08

ORCHARD GROVE ROAD 20 TO 32

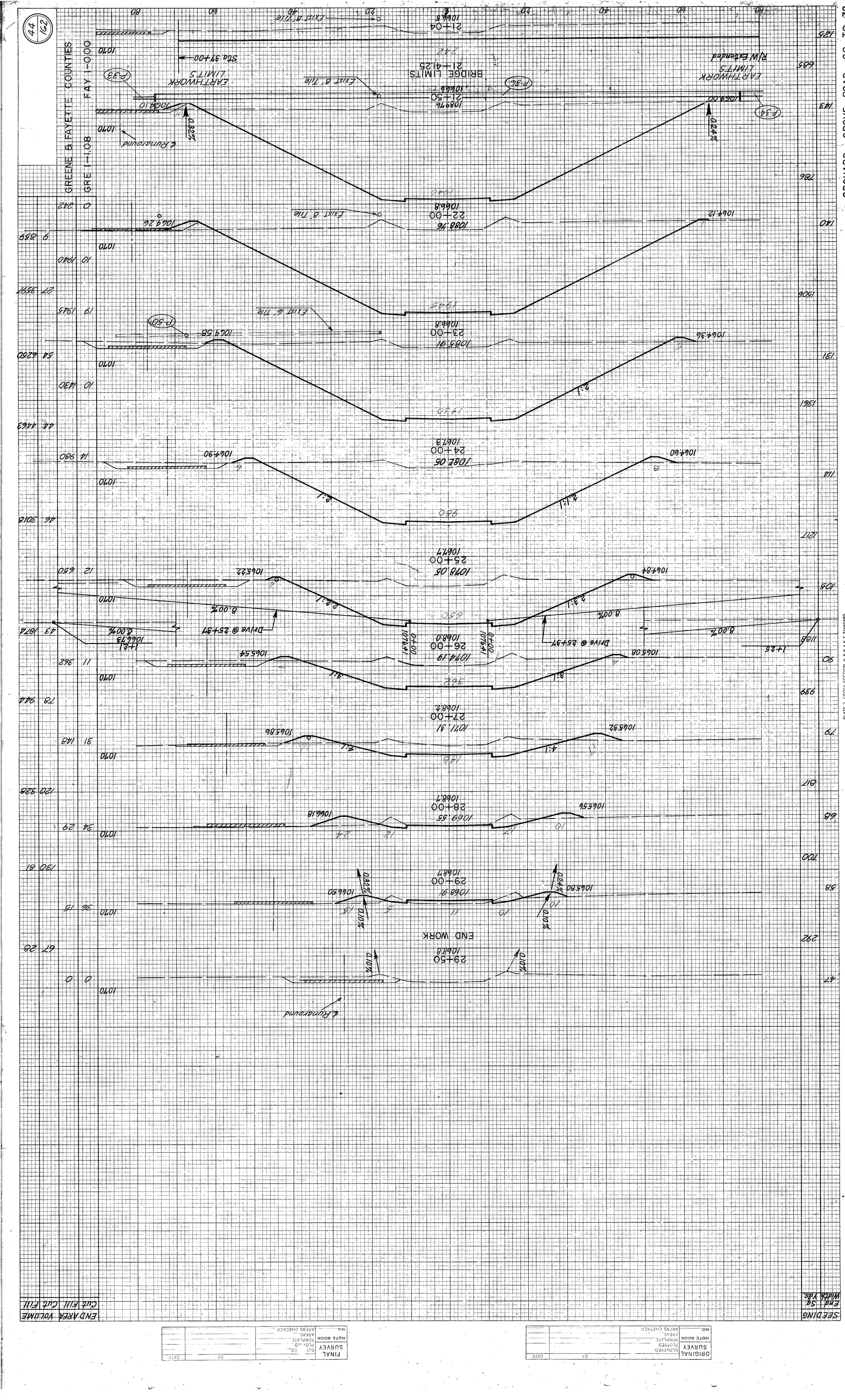


PLATE 3 CROSS SECTION 6 P.R. & R.E. STANDARD
KEUFFEL & ESSER CO. NEW YORK.

SEEDING
End Sta.
Width Yds.

END AREA VOLUME
Cut Fill Cut Fill

FINAL SURVEY
NOTE BOOK
SUR. CO.
PROJ. I.D.
TEMPLATE
AREAS
AREAS CHECKED
NO.
DATE
BY

ORIGINAL SURVEY
NOTED
TEMPLATE
AREAS
AREAS CHECKED
NO.
DATE
BY

FED. RD. DIVISION	STATE	PROJECT		
2	OHIO			

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GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

GREENE COUNTY
JEFFERSON TOWNSHIP
Josephine & Joseph A. Sheridan
Sta.18+49.67
Tacked Hub
P.K. in 18" Walnut
4°44'07"
Tacked Hub
℄ Powers Rd.
450' ±
200.00'
Ref. Sta. 18+49.67
Sta. 21+50.33
Tacked Hub
1°04'22"
℄ Powers Rd
200.00
500' ±
Tacked Hub
P.K. in 36" Ash
Ref. Sta. 21+50.33
Donna M. & Alden Johnston
18+49.67 Δ=2°28' Rt.
21+50.33 Δ=0°20'22" Lt.
17+85, 34' Lt.
1061.06
Construction Limits
1060.40
16+95.67, 56' Lt.
1060.01
R/W
50' R
42' R
R-1
R-2
86°11'23"
POWERS ROAD
END WORK Sta. 23+25
BEGIN WORK Sta. 16+75
Exist. R/W
84+81.56 ℄ S.R. 1
20+00 Powers Rd.
1061.46
Construction Limits
23+04.80, 54' Rt.
1061.93
22+15, 34' Rt.
1062.59
LA
7" B-19 Wearing Surface & Base Course
4' ± 5'-6" 5'-6" 4' ±
EXISTING TYPICAL PAVEMENT
Josephine & Joseph A. Sheridan
Exist. Ground
1"/Ft.
4:1
2'
6'
42' Radius
3/16"/Ft.
Pavement as shown on Typical section of Orchard Grove Rd. Sheet # 4
HALF-TYPICAL SECTION CUL-DE-SAC
A. D. & J. Chitty
+0.48%
-0.60%
℄ S.R. 1
1060.00 1060.12 1060.24 1060.36 1060.48 1060.53
1062.06 1062.00 1061.85 1061.70 1061.55 1061.40
1059.4 1059.6 1060.1 1060.2 1060.5 1060.6 1061.0 1061.3 1061.2 1061.0 1060.8

ROADWAY & PAVEMENT

		B-19 Aggregate Base Course	I-22 Subbase	T-30 Prime Coat	T-35 Surface Course	I-15 Guardrail Standard Type
	LOCATION	C.Y.	C.Y.	gal.	C.Y.	L.F.
	Cul-de-sac 17+85	148	101	348	49	
	Cul-de-sac 22+15	148	101	348	49	
R-1	18+37					100
R-2	21+45					100
	Total	296	202	696	98	200

Excavation	192 C.Y.
Embankment	172 C.Y.
Embankment + 15%	198 C.Y.

GREENE & FAYETTE COUNTIES

GRE.1- FAY.1-0.00

PLATE 3-CROSS SECTION O.P.R.& R.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

POWERS ROAD 15 + 64.67 TO 24 + 35.33

MICROFILMED SEP 9 1993

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

6"B-19 Wearing Surface & Base Course

4'± 6'-0" 6'-0" 4'±

EXISTING TYPICAL PAVEMENT

GREENE COUNTY
JEFFERSON TOWNSHIP

1 Sty. F. Shed

1½ Sty. F. Res.

1 Sty. F. Sheds

1½ Sty. Bl. Shed

2 Sty. Frame & Block Barn

1½ Sty. F. Shed

Gravel Drive

Dana D. & Lettie Jones

A.R. & D.M. Johnston

BEGIN WORK STA. 11+50

BEGIN NEW PAVEMENT STA. 12+50

℄ Res. Drive 14+18

Construction Limits

R/W

SMITH ROAD

93°54'00"

Existing R/W

Exist. 8" C.M. Pipe ℄ Field Drive 12+50

P-151

P-152

P-1

P-2

R-6

Feather T-35 from 2" Min. at 11+75 to 0" at 11+50 widen Base with 6" B-19 on 4" I-22

Benjamine & Elizabeth J. Beard

P.K. in 12" Tree
180.0' ℄ Smith Rd
69.43'
Sta. 12+50
R.R. Spike
P.K. in 12" Tree
℄ Ref. Sta. 12+50

116+60.13 ℄ SR. 1 = 20+00 ℄ Smith Rd.

Helen & Donald O. Early

Note: For Quantities See Next Sheet

1066.27 1066.57 1066.91 1067.31 1067.75 1068.26 1068.81 1069.42 1070.07 1070.79 1071.55 1072.37 1073.23 1074.16 1075.13 1076.13 1077.13 1078.09 1078.99 1079.81 1080.56 1081.24 1081.84 1082.38 1082.84 1083.24 1083.56 1083.81 1083.99 1084.09 1084.13

400'V.C. H.I.S.D. = 5.72'
P.V.I. Sta. 14+00
El. 1067.13
+4.00%
+0.64%
Existing Grade
50'-12"
1063.79
1063.39
1064.99
1065.81
50'-12"
700'V.C. H.P.S.D. = 3.57'
P.V.I. Sta. 20+00
El. 1091.13
Bridge Limit 18'-5.74

1066.1 1065.4 1065.3 1065.4 1065.7 1066.4 1067.2 1067.6 1068.6 1070.8 1069.3 1068.4 1067.4

8 9 10 11 12 13 14 15 16 17 18 19 20

1090 1085 1080 1075 1070 1065 1060 1055 1045

GRE-I-0297
PROPOSED STRUCTURE
TYPE 4 Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.25 - 81.75 - 81.75 - 57.25 c/c Brgs
LOAD FREQUENCY RATING C.F. 130 (57)
ROADWAY 24'-0" B/r curbs
SKEW 3°54'00" L.F.
SURFACE COURSE ¾" Monolithic
APPROACH SLABS Special (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

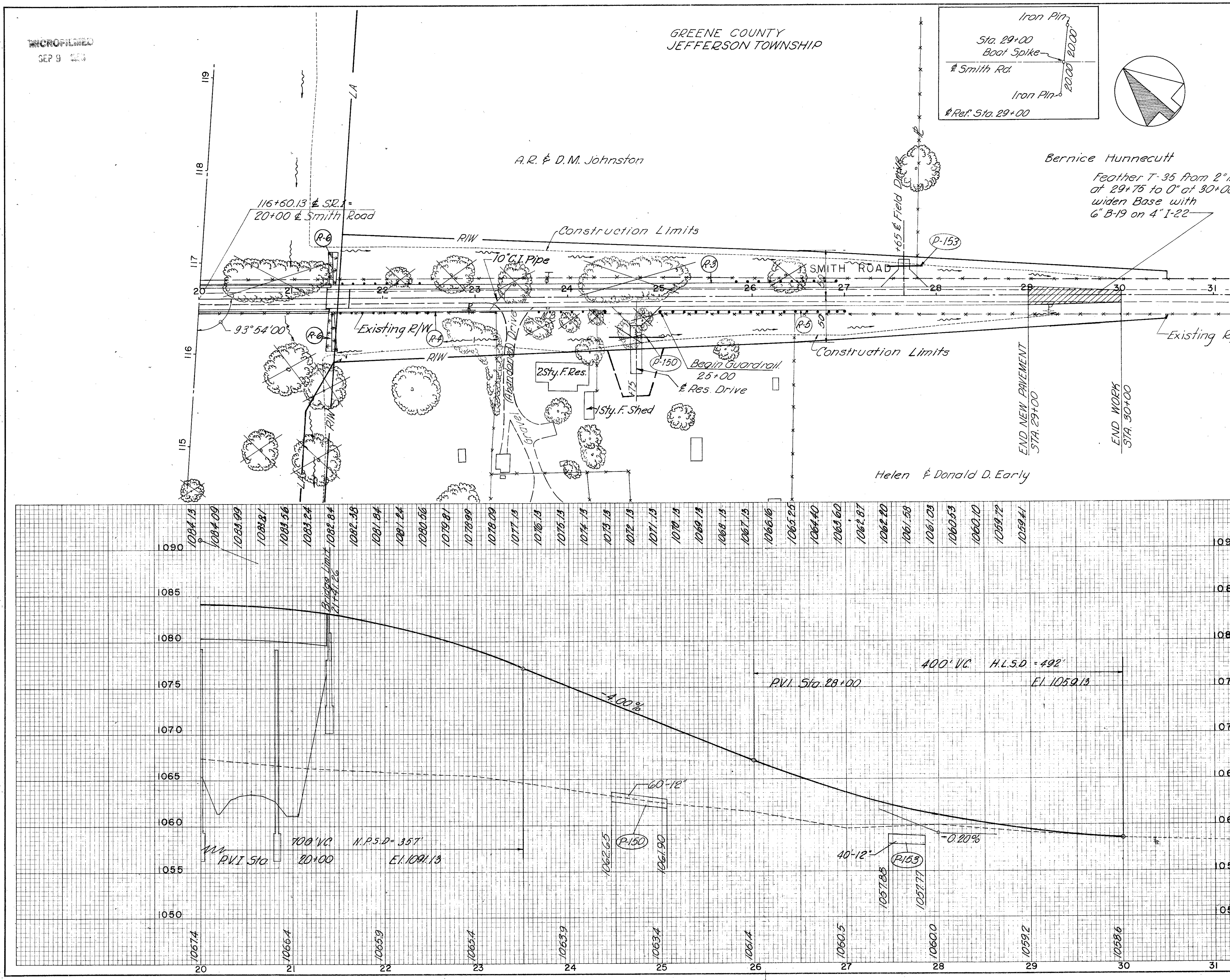
SMITH ROAD 8 TO 20

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

48
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00



DRAINAGE		I-1 12" Class F-1	I-9 Stone Underdrains		
CODE	LOCATION	L.F.	L.F.		
P-150	24+75	60			
P-151	12+50	50			
P-152	14+18	50			
P-153	27+65	40			
	12+50 to 29+50		414		
	Total	200	414		

Note: See Cross-Section for Storm Sewer Profile

ROADWAY AND PAVEMENT		I-15 Guard Rail Standard Type	L-10 Special Berm and Slope Protection	B-19 Aggregate Base Course	E-1 Compacted Subgrade	I-7 Approach Slab T=13"	I-22 Subbase	T-30 Tack Coat	T-30 Prime Coat	T-35 Surface Course
	LOCATION	L.F.	S.Y.	C.Y.	C.Y.	S.Y.	C.Y.	gal.	gal.	C.Y.
R-1	15+10 to 18+60	350								
R-2	15+10 to 18+60	350								
R-3	21+45 to 26+95	550								
R-4	21+45 to 24+40	300								
R-5	25+25 to 27+00	200								
	11+50 to 12+50			9			6	13		5
	12+50 to 29+00			513	3038	154	371		1173	172
	29+00 to 30+00			9			6	13		5
	Drive @ 12+50			10						
	Drive @ 14+18			13						4
	Drive @ 24+75			24						4
	Drive @ 27+65			12						
R-6	18+50 & 21+50 Rt. & Lt.		177							
	Total	1750	177	590	3038	154	383	26	1173	190

Excavation	1,513 C.Y.
Embankment	21,229 C.Y.
Embankment + 15%	24,413 C.Y.

SMITH ROAD 20 TO 32

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

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

Seeding End Width	Seeding Sq. Yds.
114	
	572
120	
	647
113	
	1206
104	
	1100
94	
	1022
90	
	889
70	
	711
58	
	567
44	
	122
0	

End Area Cut	End Area Fill	Volume Cut	Volume Fill
0	1080		
		24	1546
30	818		
		49	1103
23	697		
		96	1998
29	382		
		124	1215
38	274		
		130	767
32	140		
		100	313
22	29		
		81	89
22	19		
		94	50
29	8		
		40	11
0	0		

PLATE 3 CROSS SECTION O.P.R. & P.E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

49/162

SMITH ROAD 9 TO 20

50
162

GREENE & FAYETTE COUNTIES
GRE 1-1.08 FAY 1-0.00

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

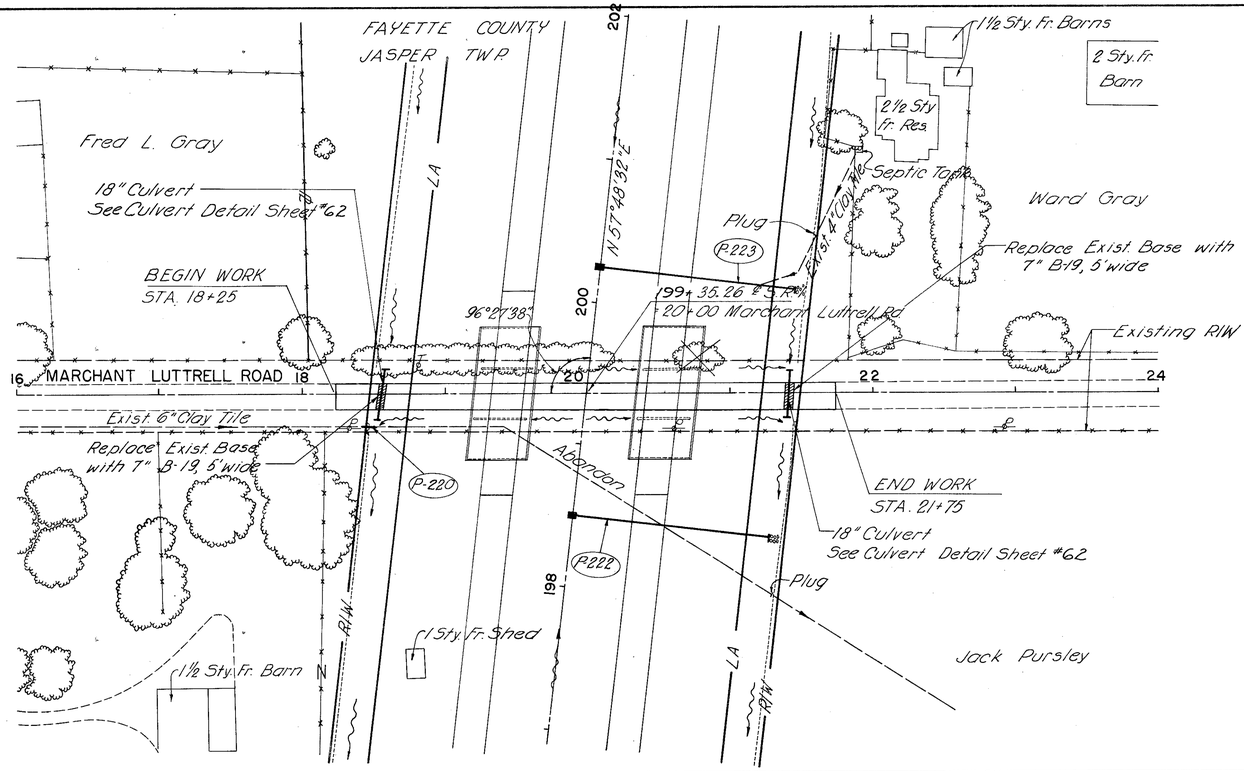
SMITH ROAD 20 TO 30

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

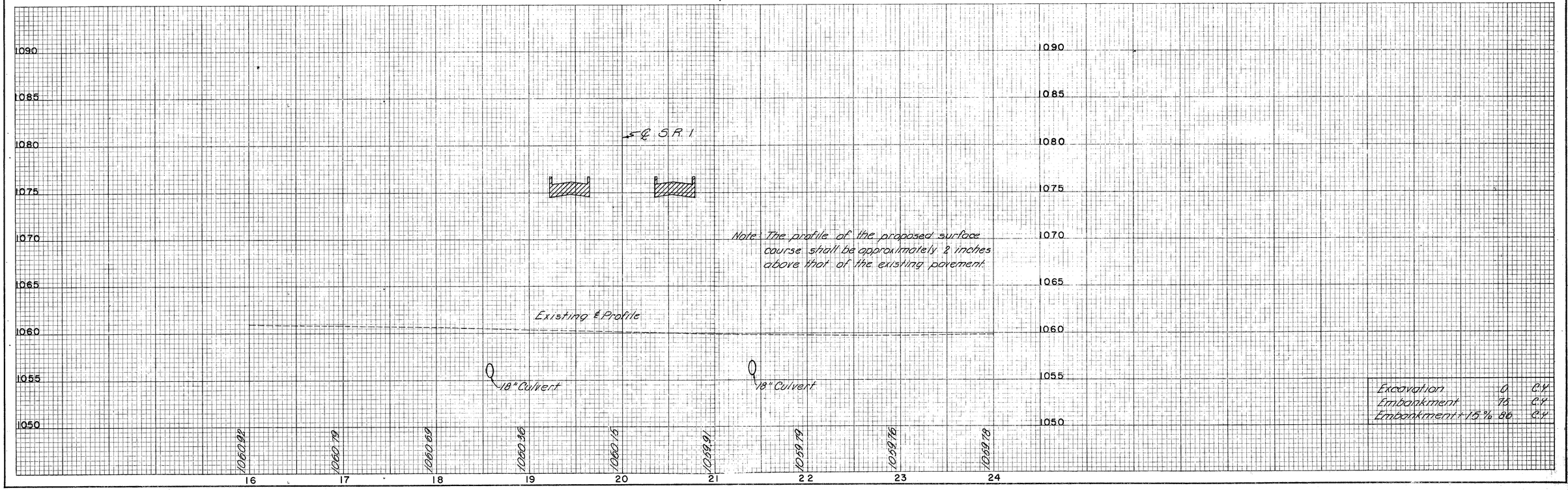
51/162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00



PAVEMENT	B-19 Agg. Base Course	T-30 Tack Coat	T-35 Surface Course	
LOCATION	C.Y.	Gal.	T-35	
18+25 to 21+75		70	39	
18+58	2			
21+41	2			
Total	4	70	39	



Note: The profile of the proposed surface course shall be approximately 2 inches above that of the existing pavement.

Excavation	0	C.Y.
Embankment	76	C.Y.
Embankment + 15%	88	C.Y.

MARCHANT LUTTRELL ROAD 16 TO 24

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

52
162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
0				0	2
	25	0	4		
18					
	100			0	10
18					
	100	0	7		
18				0	13
	100	0	7		
18				0	11
	100	0	5		
18				0	11
	100	0	7		
18				0	13
	100	0	7		
18				0	12
	100	0	6		
18				0	3
	25	0	0		
0					

21+75
END WORK

1058.00 0.24% 1057.16 0.24%

21+50
1059.8

0.24% 1058.24 1058.24 0.24%

Earthwork Limits — Earthwork Limits

21+00
1059.9

1058.36 1058.36

20+50
1060.0

0.24% 1058.48 1058.48 0.24%

20+00
1060.2

1058.36 1058.36 2 5" Tile

19+50
1060.3

0.24% 1058.24 1058.24 0.24% 5" Tile

19+00
1060.4

0.24% 1058.20 1058.20 0.24% 5" Tile

18+50
1060.5

18+25
BEGIN WORK
℄

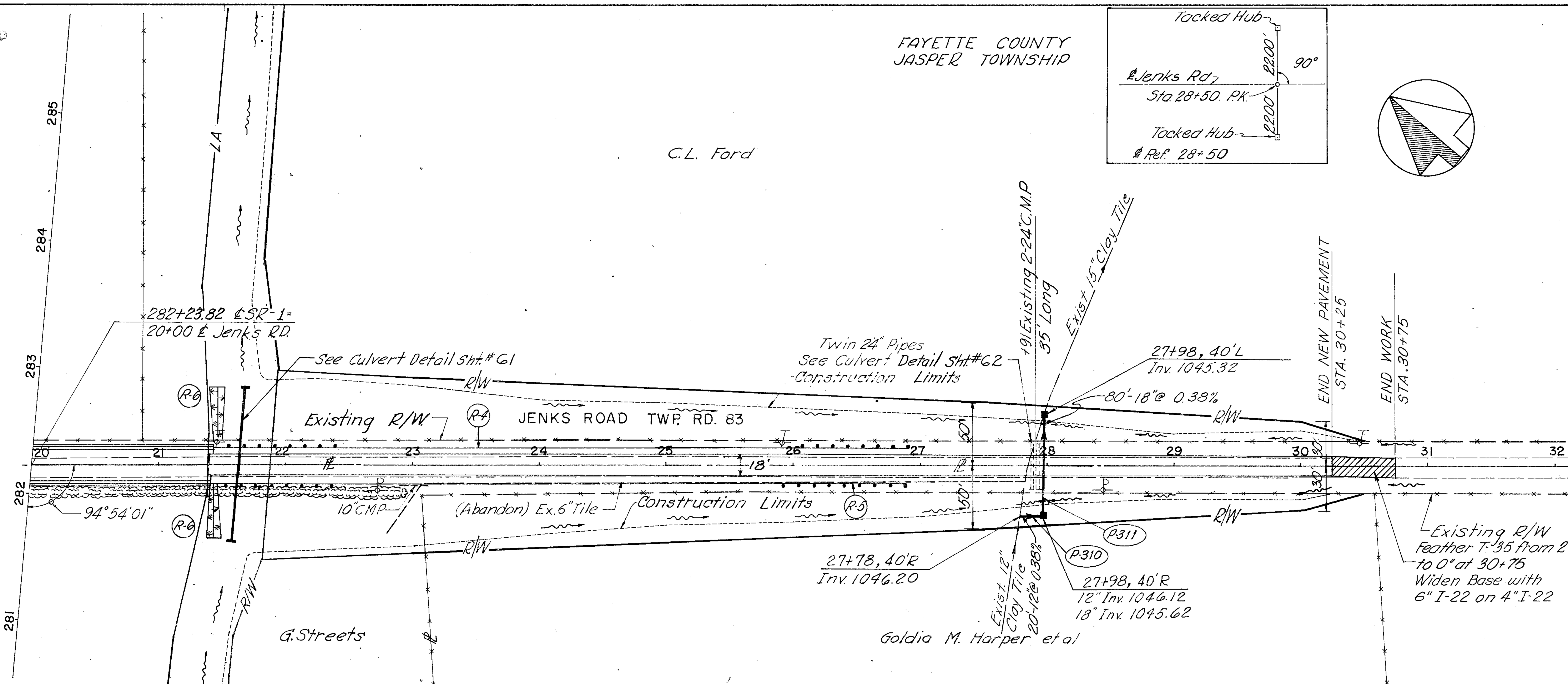
PRINTED ON BLACK LINE ON CHILTRACE CLOTH

MARCHANT-LUTTRELL ROAD 18+50 TO 21+50

FED. RD. DIVISION 2 STATE OHIO PROJECT
53/162
GREENE & FAYETTE COUNTIES
GRE 1-1.08 FAY 1-0.00
Tacked Hub
2.100'
90°
℄ Jenks Rd.
Sta.12+50. P.K.
2.100'
Tacked Hub
⌀ Ref. Sta. 12+50
MICROFILMED
FAYETTE COUNTY
JASPER TOWNSHIP
C.L. Ford
2 Sty F. Barn
1 Sty. F. Shed
Drive
2 Sty F. Res.
Feather T-35 from 2" Min. at 10+50 to 0" at 10+25. Widen Base with 6" B-19 on 4 I-22
BEGIN WORK STA. 10+25
BEGIN NEW PAVEMENT STA. 10+75
0+50, Δ = 60° Rt.
℄ Res. Drive 15+75
JENKS ROAD TWP. RD. 83
R/W
Construction Limits
8" Tile
See Culvert Detail Sh. # 61
94°54'01"
Begin Guard Rail 14+00 Rt. & Lt.
Construction Limits
Existing R/W
T-31 Wearing Course
4" T-32 Base Course
4'± 8'-0" 8'-0" 4'±
EXISTING TYPICAL PAVEMENT
Willard B. Harper
℄ Field Drive 15+75
G. Streets
282+23.82 ℄ SR-1 = 20+00 ℄ Jenks Rd.
285
284
283
281
Note: For Quantities See Next Sheet
400' VC H.L.S.D. = 405'
P.V.I. 12+75
El. 1054.92
+4.00%
-0.68%
Existing Grade
P.V.I. 20+00
700' VC
N.P.S.D. = 357'
El. 1083.92
Bridge Limit 18+59.24
1052.28
1052.14
70'-12"
36" Culvert
FAY-1-0205
PROPOSED STRUCTURE
TYPE 4 Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.50'-82.00'-82.00'-57.50' ℄ Brgs.
LOAD FREQUENCY RATING CF = 130 (57)
ROADWAY 24'-0" F/F curbs
SKEW 4°54'01" L.F.
SURFACE COURSE 3/4" Monolithic
APPROACH SLABS Special (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

GREENE & FAYETTE COUNTIES

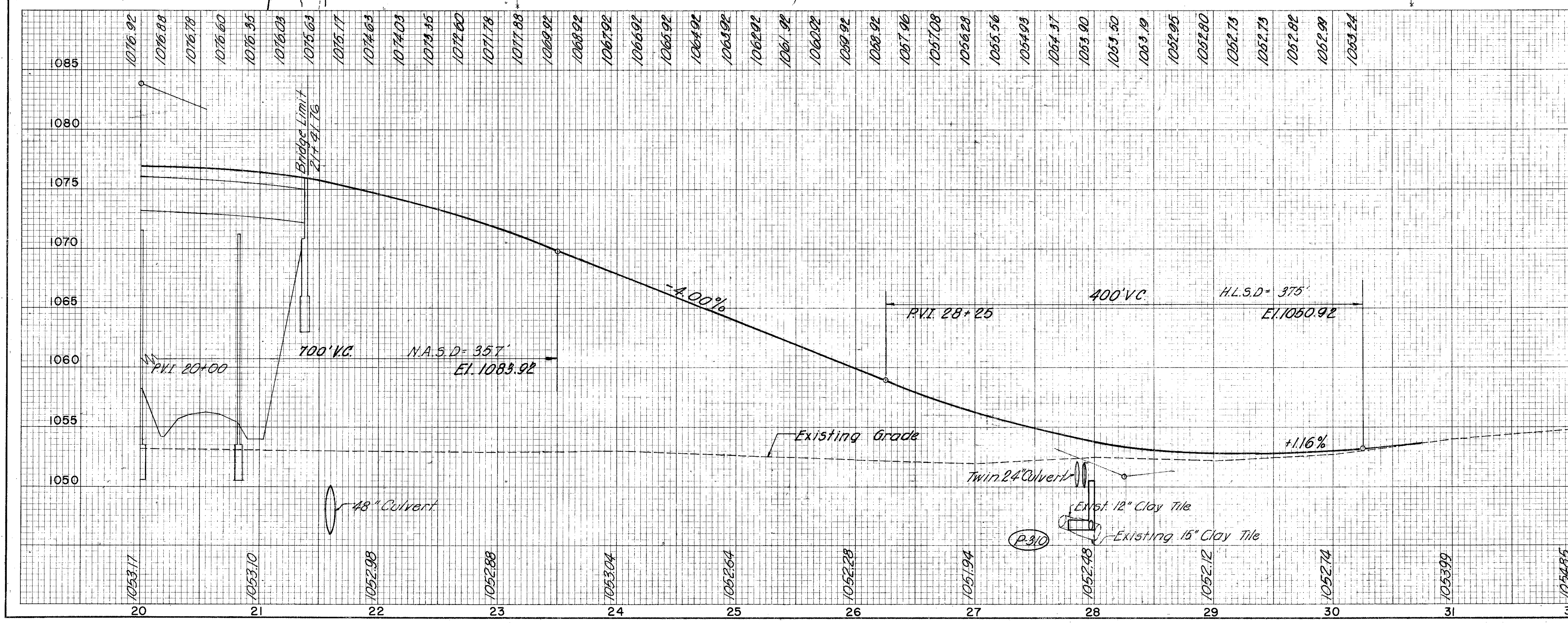
GRE. 1–1.08 FAY. 1–0.00



DRAINAGE		I-1 18" Class A-1 M-6.6(a) or M-6.8(b)	I-1 12" Class F-1	I-1 12" Class H-2		I-5 12" Class H-2	I-8 No. 2-2B C.B.	I-9 Stone Underdrains	
CODE	LOCATION	L.F.	L.F.	L.F.		Ea.	Ea.	L.F.	
P-310	27+75 to 28+00			20		1			
P-311	28+00	80					2		
P-312	14+50		70						
P-313	15+75		70						
	10+75 to 30+25							468	
	Total	80	140	20		1	2	468	

Note: See Cross-Sections for Storm Sewer Profiles.

ROADWAY AND PAVEMENT		I-15 Guard Rail, Standard Type	L-10 Special Berm and Slope Protection	B-19 Aggregate Base Course	E-1 Compacted Subgrade	I-7 Approach Slab T=13	I-22 Subbase	T-30 Tack Coat	T-30 Prime Coat	T-35 Surface Course	
	LOCATION	L.F.	S.Y.	C.Y.	S.Y.	S.Y.	C.Y.	gal.	gal.	C.Y.	
R-1	16+10 to 18+60	250									
R-2	14+00 to 15+50	150									
R-3	16+05 to 18+55	250									
R-4	21+45 to 26+95	550									
R-5	21+40 to 26+90	550									
	10+25 to 10+75			2			2	9		3	
	10+75 to 30+25			569	3333	154	411		1292	190	
	30+25 to 30+75			2			2	9		3	
	Drive @ 15+75 Lt			48						4	
	Drive @ 15+75 Rt			31							
R-6	18+50 & 21+50 Rt. & Lt.		250								
R-7	14+00 to 15+50	150									
	Total	1900	250	652	3333	154	415	18	1292	200	



Excavation 1,008 C.Y.
Embankment 44,870 C.Y.
Embankment + 15% 51,601 C.Y.

55
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

JENKS ROAD 8 TO 20

PLATE 3 CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK.

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

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

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

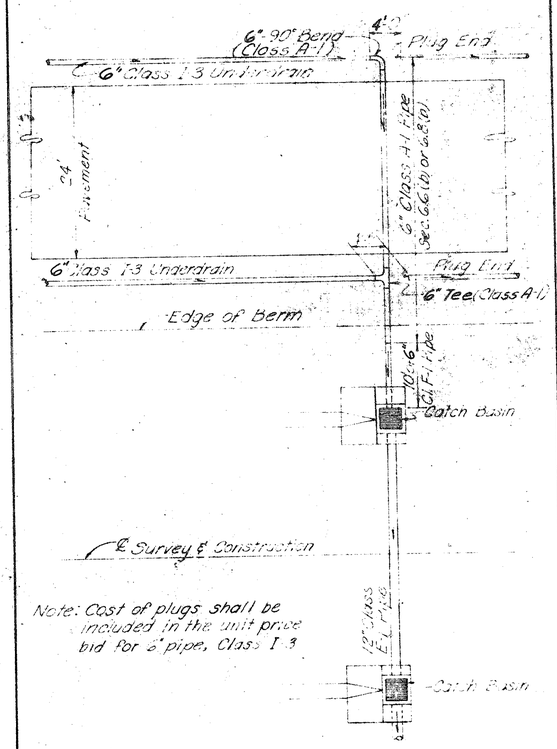
PLATE 3-CROSS SECTION O. P. R. & R. E. STANDARD
KEUFFEL & ESSER CO., NEW YORK

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

51
162

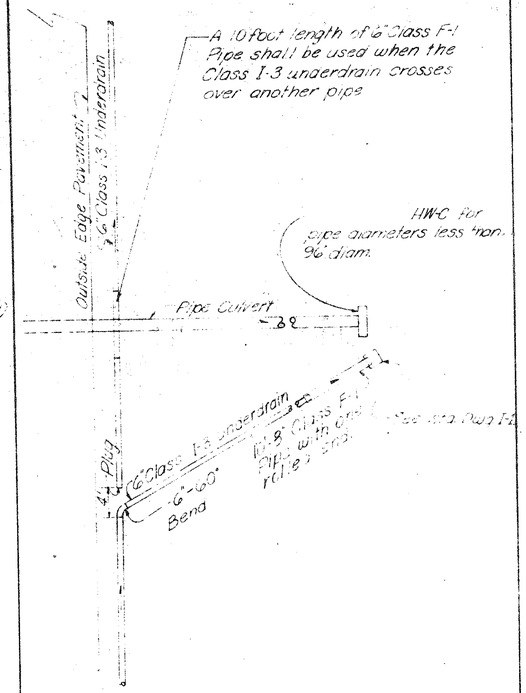
GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

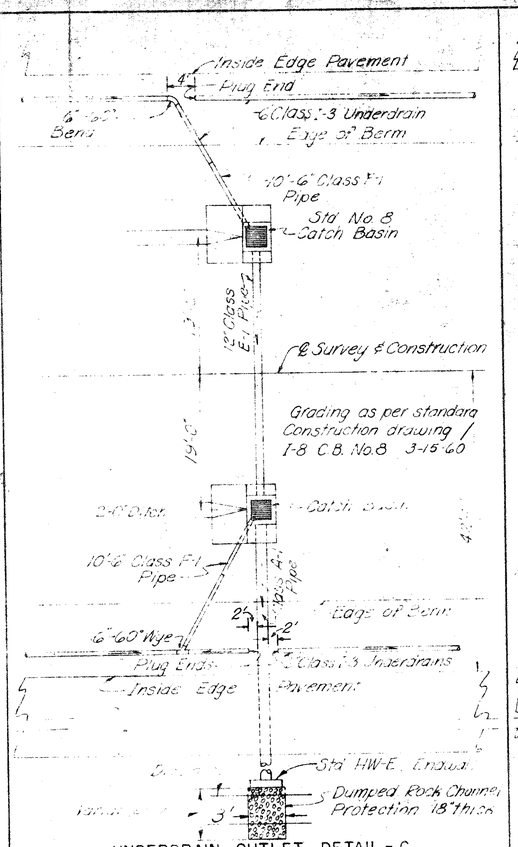


Note: Cost of plugs shall be included in the unit price bid for 6" pipe, Class 1-3

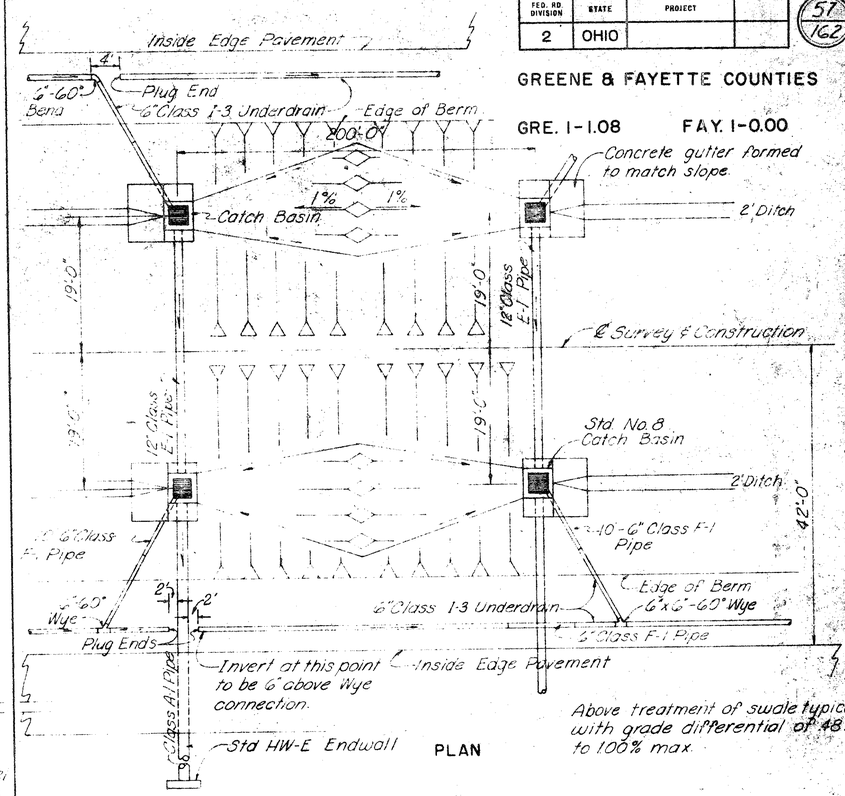
UNDERDRAIN OUTLET DETAIL - A



UNDERDRAIN OUTLET DETAIL - B



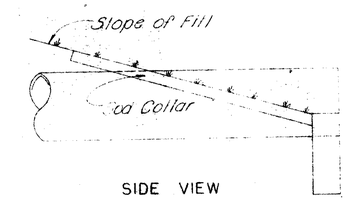
UNDERDRAIN OUTLET DETAIL - C



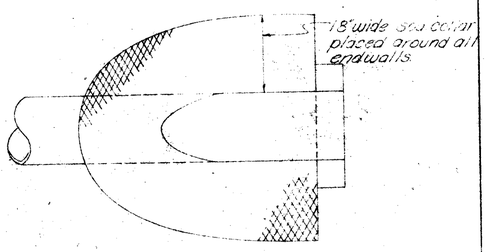
PLAN

Above treatment of swale typical with grade differential of 48% to 100% max.

UNDERDRAIN OUTLET DETAIL - D



SIDE VIEW

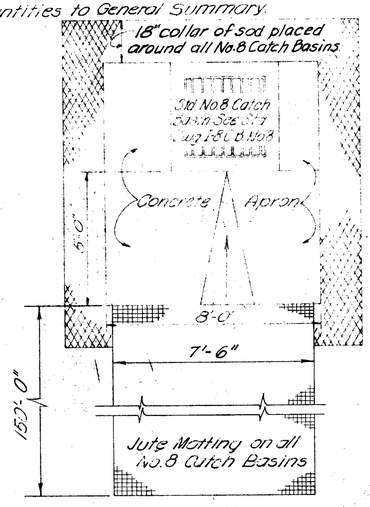


PLAN VIEW

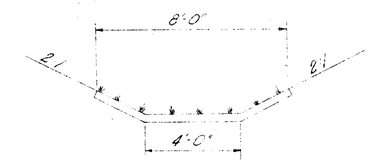
A total of 2 sq yds of sod required at each endwall. 2 x no. of endwalls (38) = 76 sq yds of L-10 Sodding to General Summary.

DETAIL OF SOD COLLAR ON END WALLS

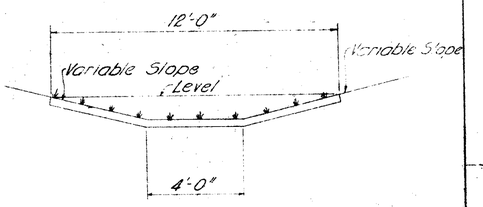
A total of 5½ sq yds of sod required at each No. 8 Catch Basin. 5½ x 67 basins = 368 sq yds. of L-10 Sodding.
A total of 125 sq yds. of jute matting required at the upstream side of each No. 8 Catch Basin.
125 x 67 basins = 8375 sq yds. of L-120 jute matting.
Quantities to General Summary.



DETAIL OF SOD COLLAR & JUTE MATTING ON NO. 8 CATCH BASINS

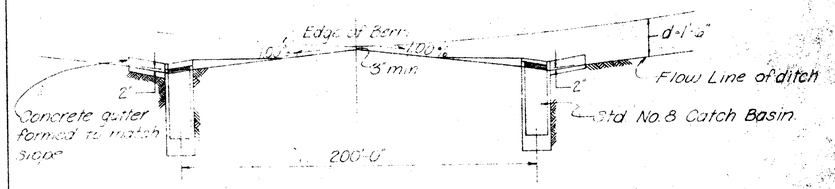


SPECIAL DITCH

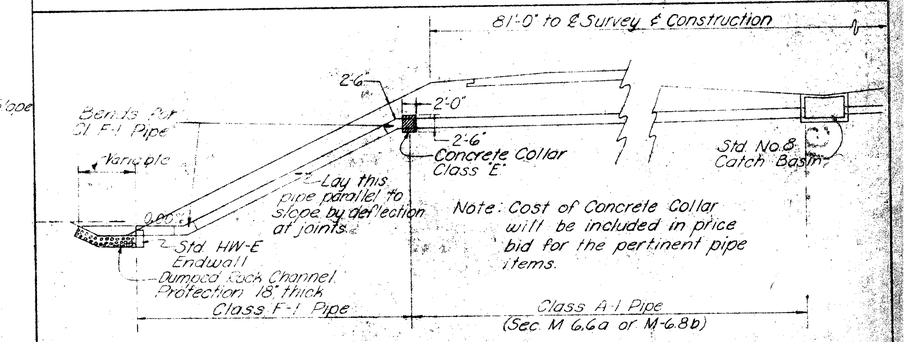


STANDARD DITCH

SOD DETAILS



PROFILE



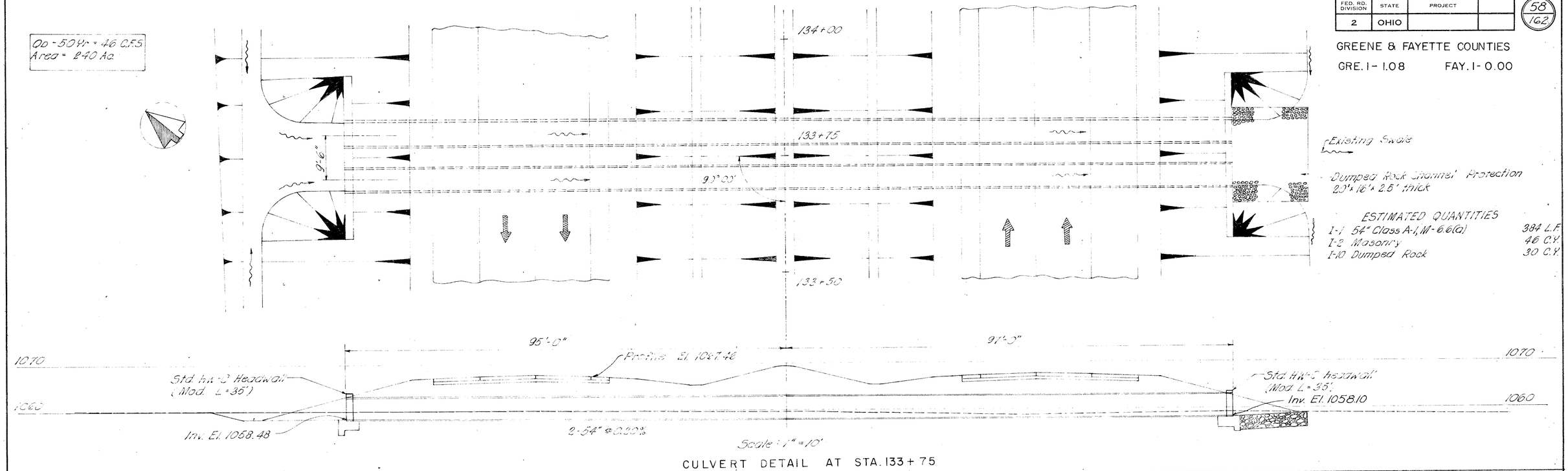
MEDIAN OUTLET DETAIL IN HIGH FILL

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

58
162

GREENE & FAYETTE COUNTIES

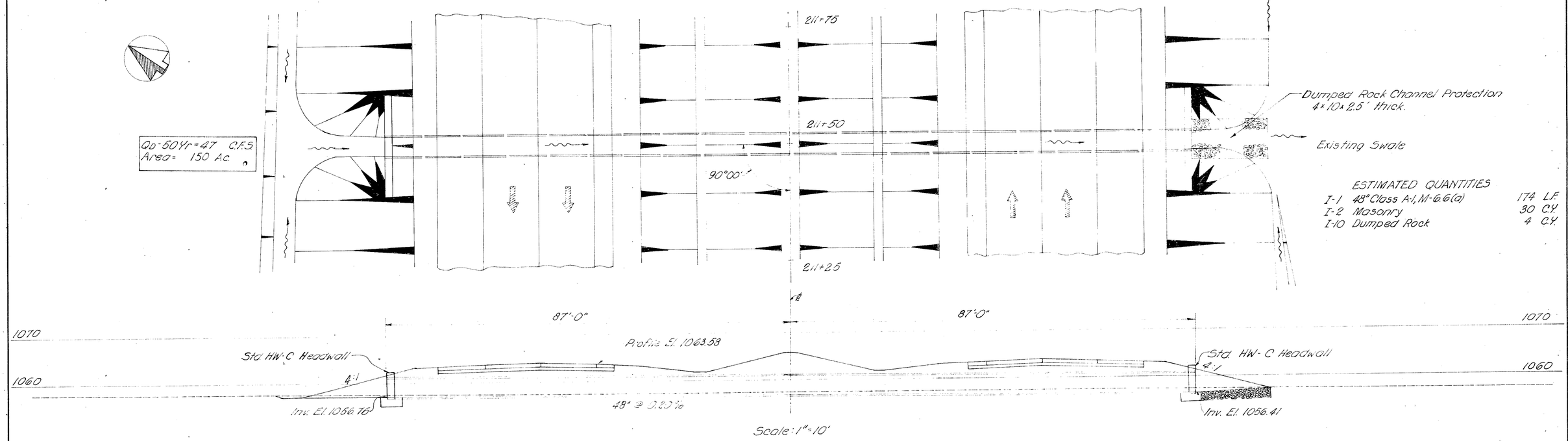
GRE. I - 1.08 FAY. I - 0.00



ESTIMATED QUANTITIES

I-1	54" Class A-1, M-6.6(a)	384 L.F.
I-2	Masonry	46 C.Y.
I-10	Dumped Rock	30 C.Y.

CULVERT DETAIL AT STA. 133+75



ESTIMATED QUANTITIES

I-1	48" Class A-1, M-6.6(a)	174 L.F.
I-2	Masonry	30 C.Y.
I-10	Dumped Rock	4 C.Y.

CULVERT DETAIL AT STA. 211+50

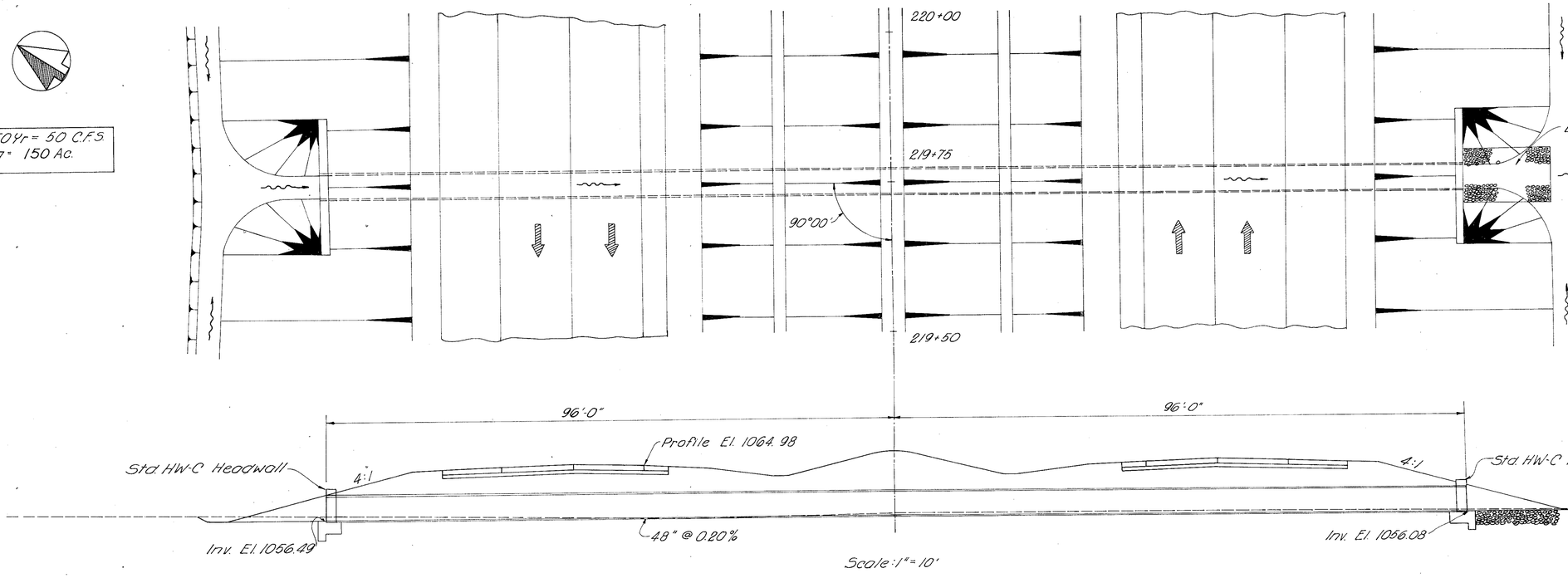
CULVERT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

59
162

GREENE & FAYETTE COUNTIES

GRE. I - 1.08 FAY. I - 0.00

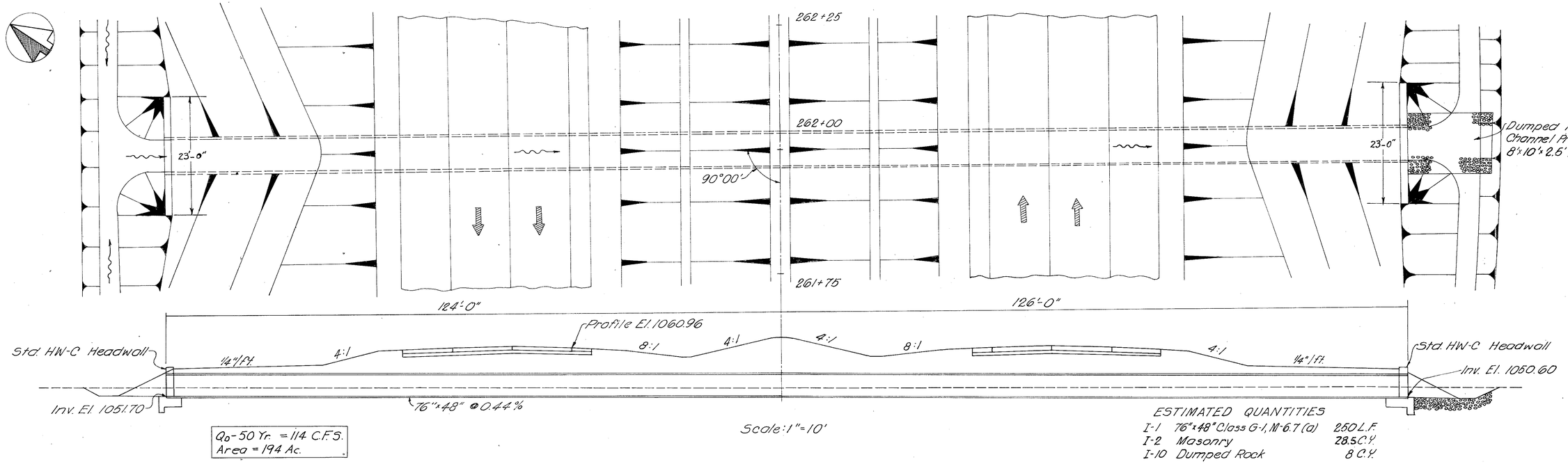


ESTIMATED QUANTITIES

I-1	48" Class A-1, M-6.6(a)	192 L.F.
I-2	Masonry	30 C.Y.
I-10	Dumped Rock	4 C.Y.

Scale: 1" = 10'

CULVERT DETAIL AT STA. 219+75



ESTIMATED QUANTITIES

I-1	76"x48" Class G-1, M-6.7(a)	250 L.F.
I-2	Masonry	28.5 C.Y.
I-10	Dumped Rock	8 C.Y.

Scale: 1" = 10'

CULVERT DETAIL AT STA. 262+00

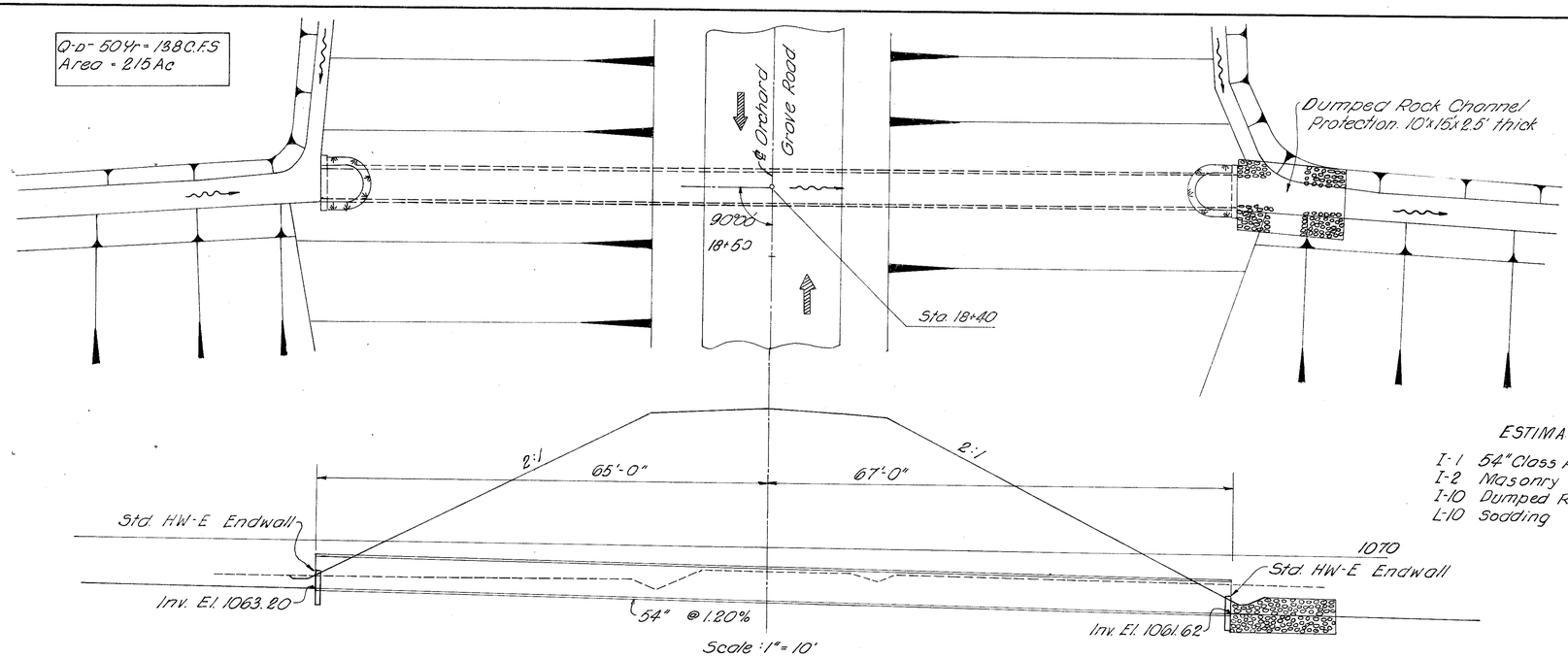
CULVERT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

60
162

GREENE & FAYETTE COUNTIES

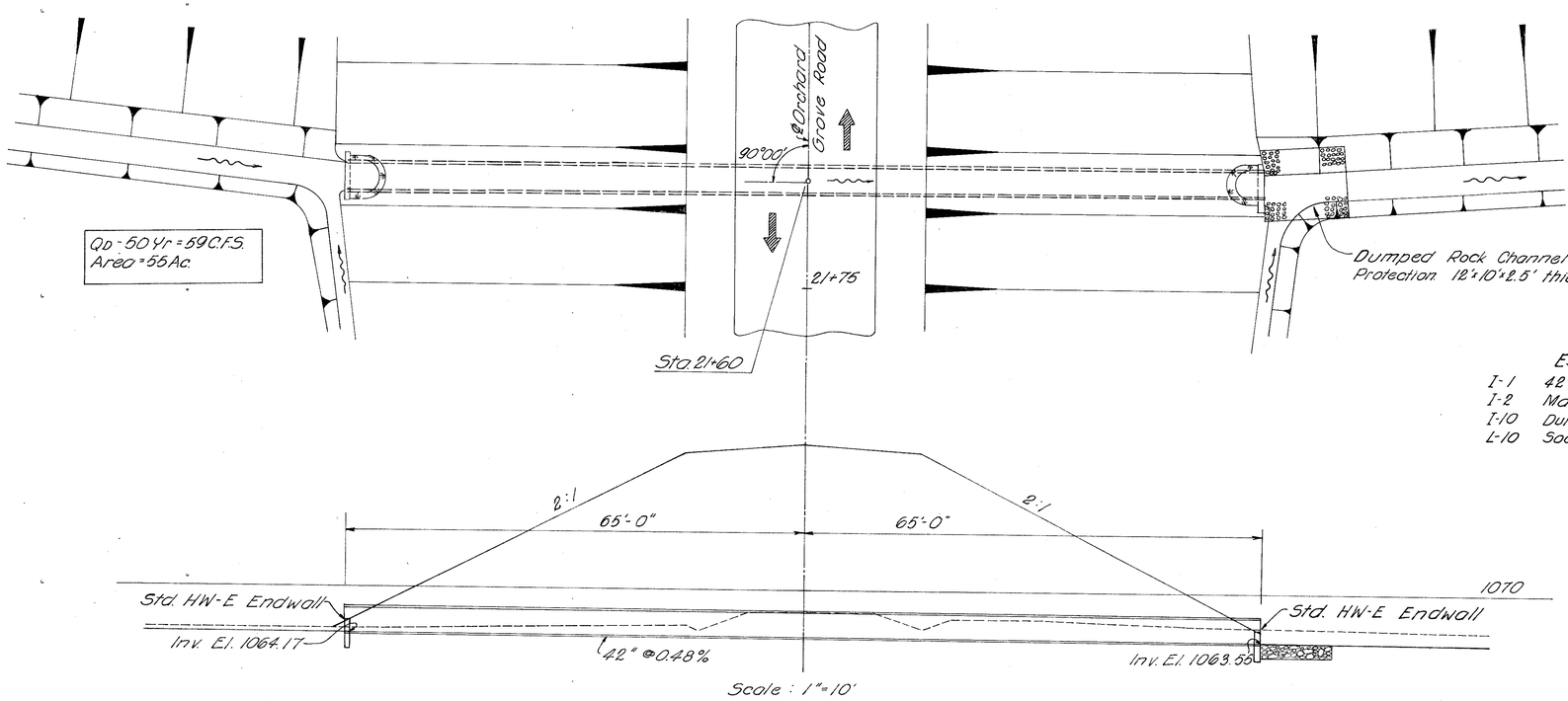
GRE. 1 - 1.08 FAY. 1 - 0.00



ESTIMATED QUANTITIES

I-1	54" Class A-1, M-6.6(d)	132	L.F.
I-2	Masonry	1.98	C.Y.
I-10	Dumped Rock	14	C.Y.
L-10	Sodding	6	S.Y.

CULVERT DETAIL AT STA. 18+40. ORCHARD GROVE ROAD



ESTIMATED QUANTITIES

I-1	42" Class A-1, M-6.6(d)	130	L.F.
I-2	Masonry	1.52	C.Y.
I-10	Dumped Rock	11	C.Y.
L-10	Sodding	6	S.Y.

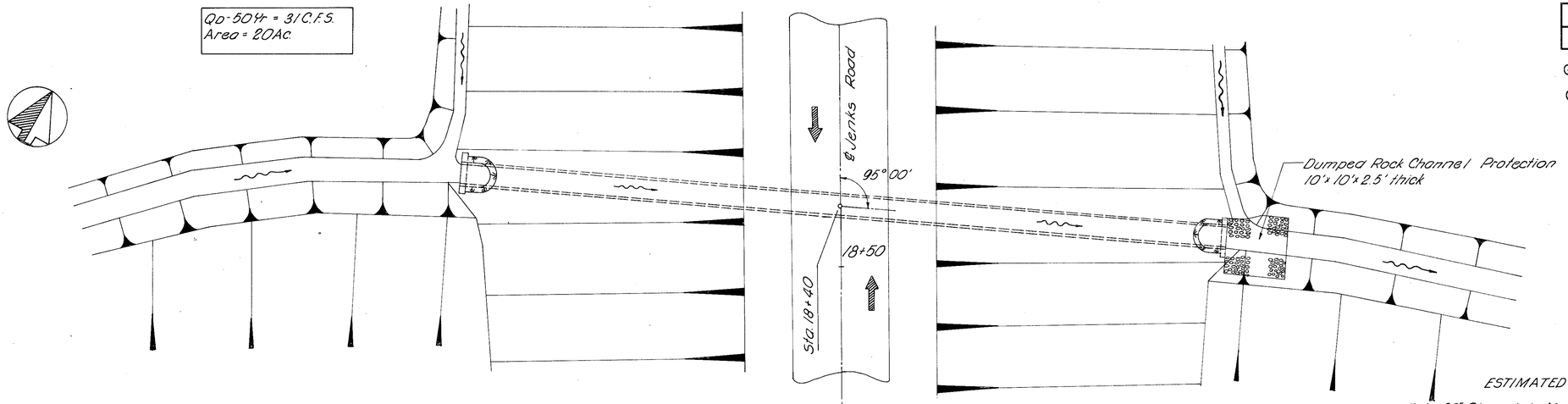
CULVERT DETAIL AT STA. 21+60. ORCHARD GROVE ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

61
162

GREENE & FAYETTE COUNTIES

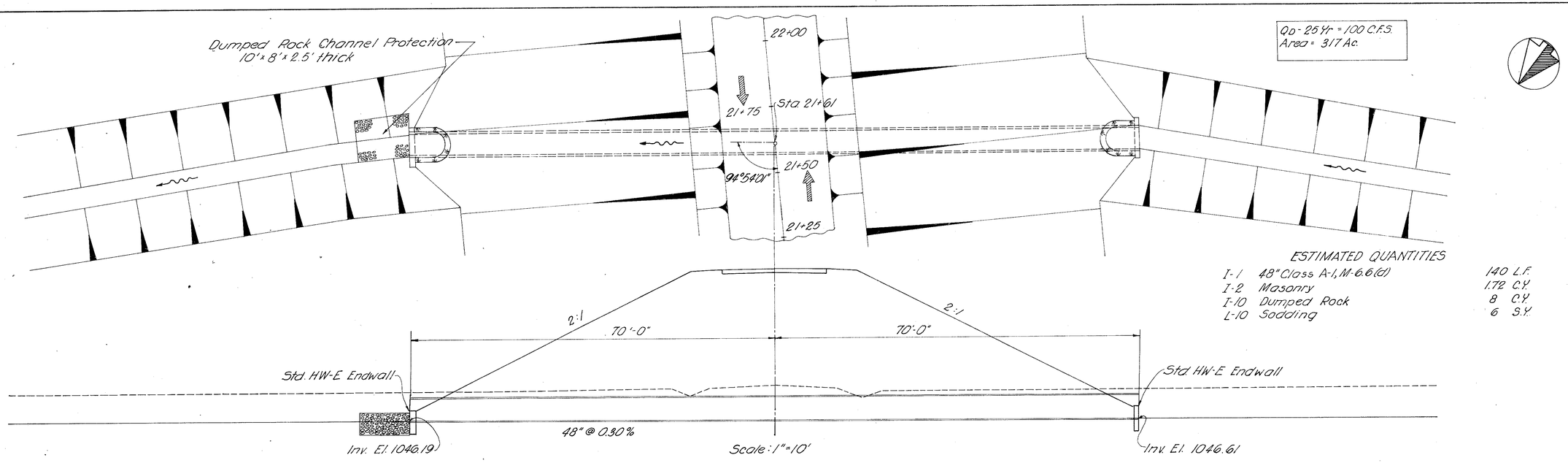
GRE. 1 - 1.08 FAY. 1 - 0.00



CULVERT DETAIL AT STA. 18+40 JENKS ROAD

ESTIMATED QUANTITIES

I-1	36" Class A-1, M-6.6(d) or M-6.4(d)	126 L.F.
I-2	Masonry	1.18 C.Y.
I-10	Dumped Rock	10 C.Y.
L-10	Sodding	5 S.Y.



CULVERT DETAIL AT STA. 21+61 JENKS ROAD

ESTIMATED QUANTITIES

I-1	48" Class A-1, M-6.6(d)	140 L.F.
I-2	Masonry	1.72 C.Y.
I-10	Dumped Rock	8 C.Y.
L-10	Sodding	6 S.Y.

Rev 10-2-62

CULVERT DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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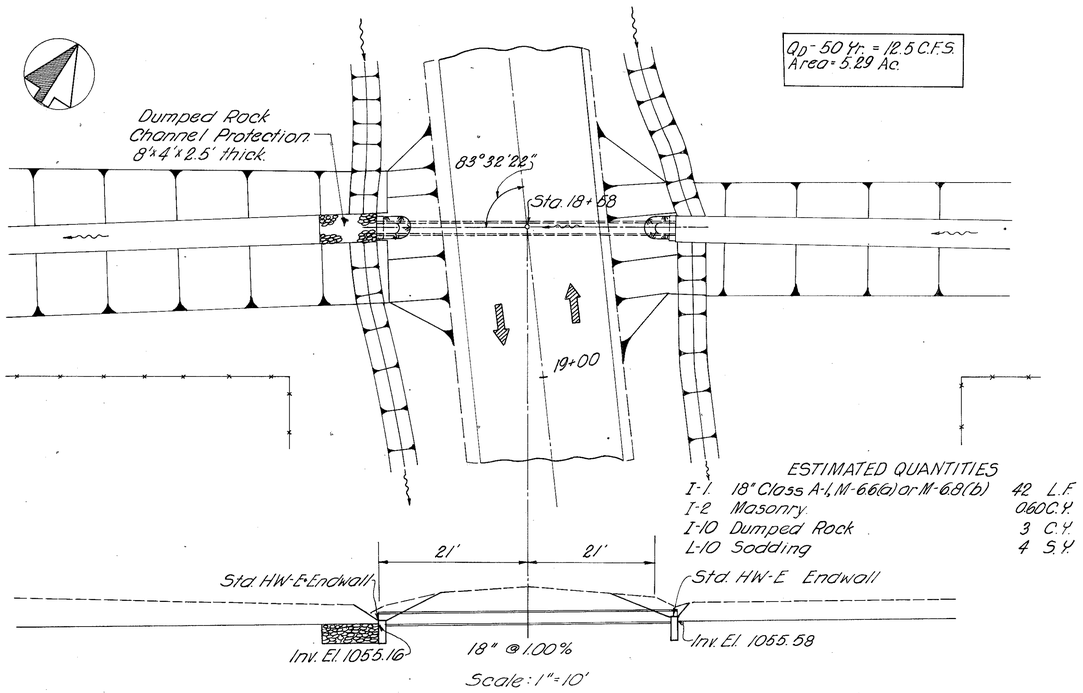
GREENE & FAYETTE COUNTIES

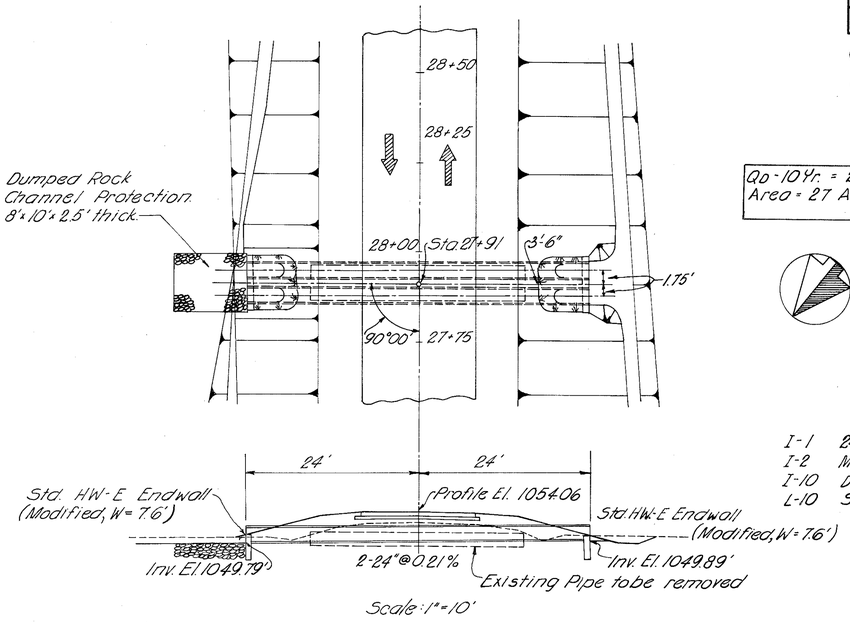
GRE. 1-1.08 FAY. 1-0.00



ESTIMATED QUANTITIES

I-1	18" Class A-1, M-6.6(a) or M-6.8(b)	42 L.F.
I-2	Masonry	060 C.Y.
I-10	Dumped Rock	3 C.Y.
L-10	Sodding	4 S.Y.

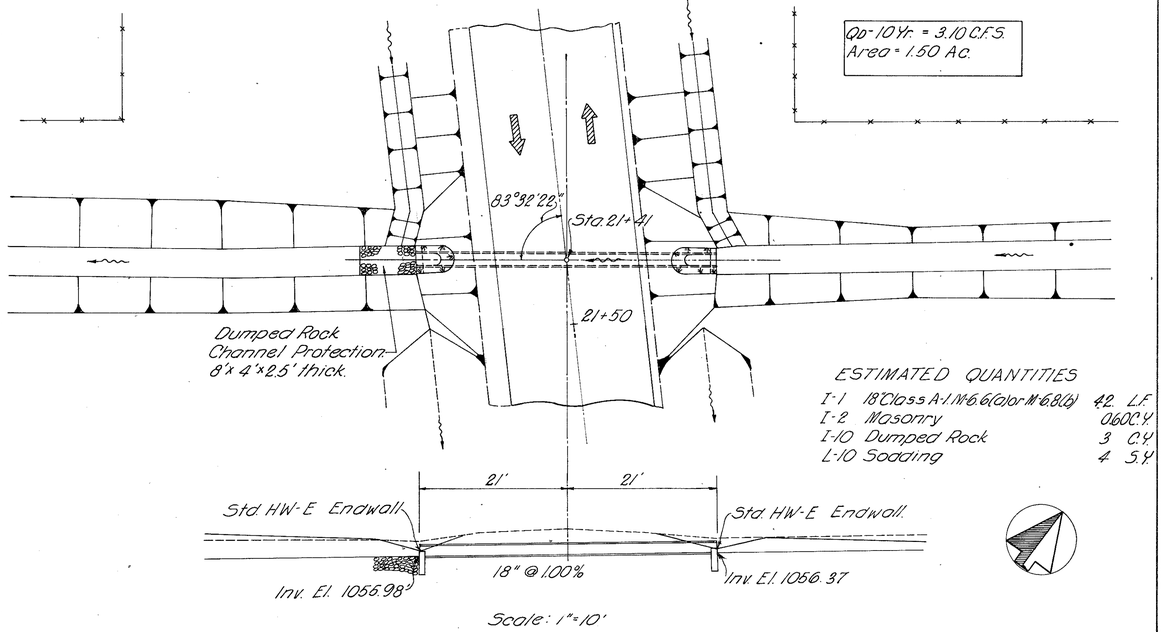
CULVERT DETAIL AT STA. 18+58 MARCHANT LUTTRELL ROAD



ESTIMATED QUANTITIES

I-1	24" Class A-1, M-6.6(b) or M-6.8(b)	96 L.F.
I-2	Masonry	1.52 C.Y.
I-10	Dumped Rock	8 C.Y.
L-10	Sodding	6 S.Y.

CULVERT DETAIL AT STA. 27+91 JENKS ROAD



ESTIMATED QUANTITIES

I-1	18" Class A-1, M-6.6(a) or M-6.8(b)	42 L.F.
I-2	Masonry	060 C.Y.
I-10	Dumped Rock	3 C.Y.
L-10	Sodding	4 S.Y.

CULVERT DETAIL AT STA. 21+41 MARCHANT LUTTRELL ROAD

SUMMARY OF CULVERT QUANTITIES

		I-1										I-2	I-10	L-10				
		18" Class A-1 M-6.6(a) or M-6.8(b)	24" Class A-1 M-6.6(b) or M-6.8(b)	36" Class A-1 M-6.6(b) or M-6.4(c)	42" Class A-1 M-6.6(c)	48" Class A-1 M-6.6(c)	48" Class A-1 M-6.6(c)	54" Class A-1 M-6.6(c)	54" Class A-1 M-6.6(c)	66"x48" C-1 M-6.7(a)		Masonry	Dumped Rock	Sodding				
SH. NO.	LOCATION	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.		C.Y.	C.Y.	S.Y.				
58	S.R-1. Sta. 133+75							384				46.00	30					
58	S.R-1. Sta. 211+50					174						30.00	4					
59	S.R-1. Sta. 219+75					192						30.00	4					
59	S.R-1. Sta. 262+00									250		28.50	8					
60	Orchard Grove Rd. 18+40								132			1.92	14	6				
60	Orchard Grove Rd. 21+60				130							1.52	11	6				
62	Marchant Luttrell Rd. 18+58	42										060	3	4				
62	Marchant Luttrell Rd. 21+42	42										060	3	4				
61	Jenks Rd. Sta. 18+40			126								1.18	10	5				
61	Jenks Rd. Sta. 21+61						140					1.72	8	6				
62	Jenks Rd. Sta. 27+91		96									1.52	8	6				
	Total	84	96	126	130	366	140	384	132	250		143.56	103	37				

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2	OHIO		

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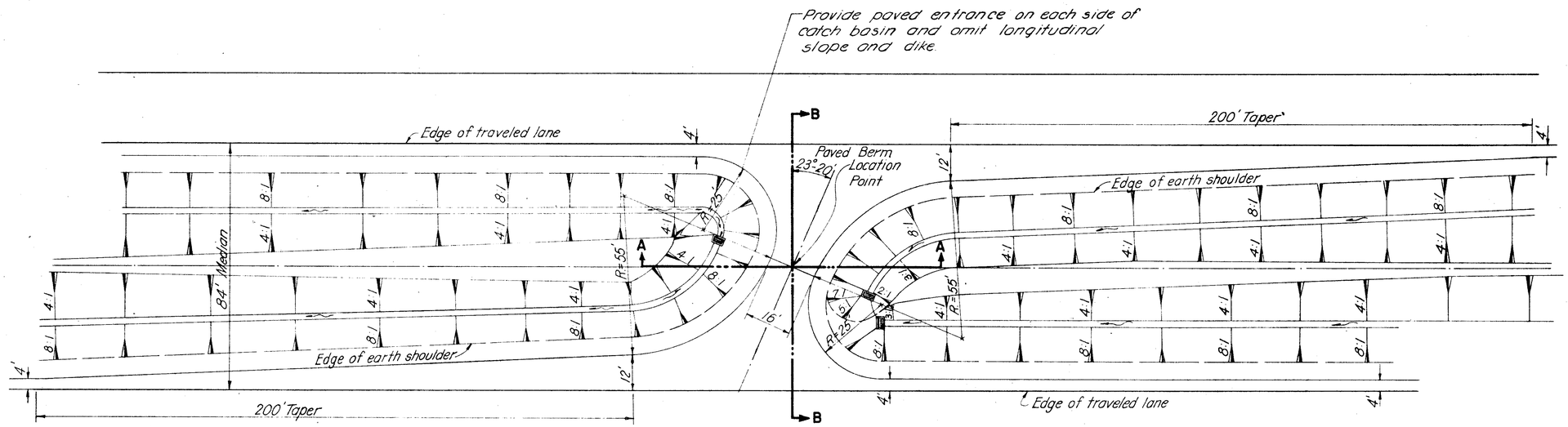
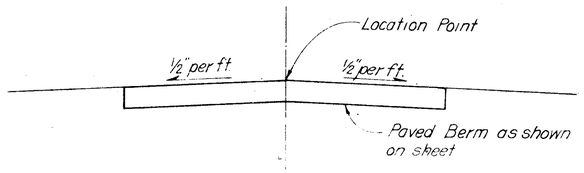
GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

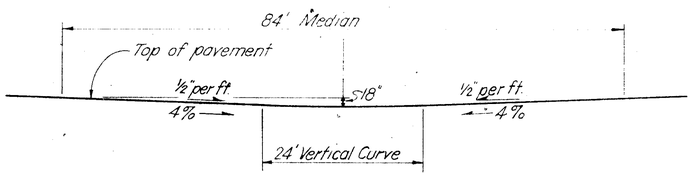
LOCATION:
Station 40+00
Station 174+00



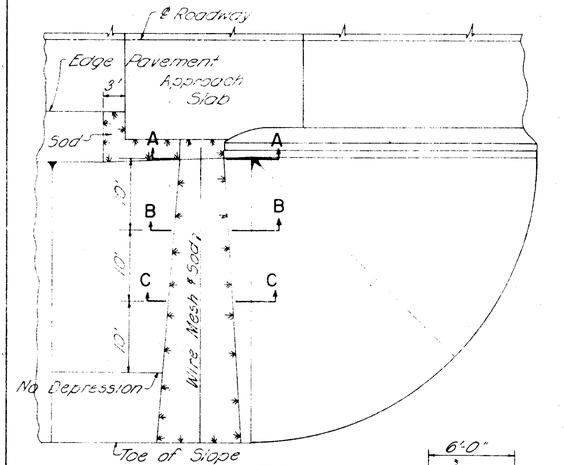
TYPICAL CROSSOVER



SECTION A-A



SECTION B-B



EROSION CONTROL DETAIL
BRIDGES ON SECONDARY ROADS

SPECIAL BERM AND SLOPE PROTECTION

Prior to placement of sod in the berm and slope, galvanized poultry fence shall be placed on the finished grade in strands which shall be at right angles to the directions of flow. Each strand shall be staked securely on top and bottom with stakes spaced at four foot intervals and alternated in rows four feet apart.

Stakes shall be 1"x 1"x 8" wood stakes and shall be perpendicular to the ground and flush with the finished grade.

The fence shall be straight line poultry fence or equivalent with strand width of four feet having a two inch mesh and all wires No 20 gage.

The strands of fencing shall be fastened together at twelve inch intervals by means of hog rings.

The fencing shall be secured to the wood stakes by metal staples.

Sod shall be laid in accordance with the Construction and Material Specifications Section L-10.07.

Payment for all of the above shall be included in the unit price bid for "Item L-10, Sodding for Special Berm and Slope Protection".

FED. RD. DIVISION	STATE	PROJECT	
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GREENE & FAYETTE COUNTIES

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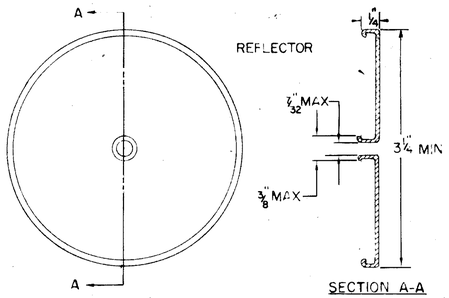
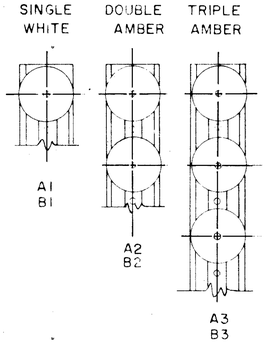
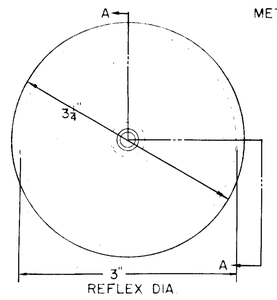
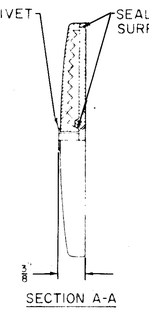
TYPE A



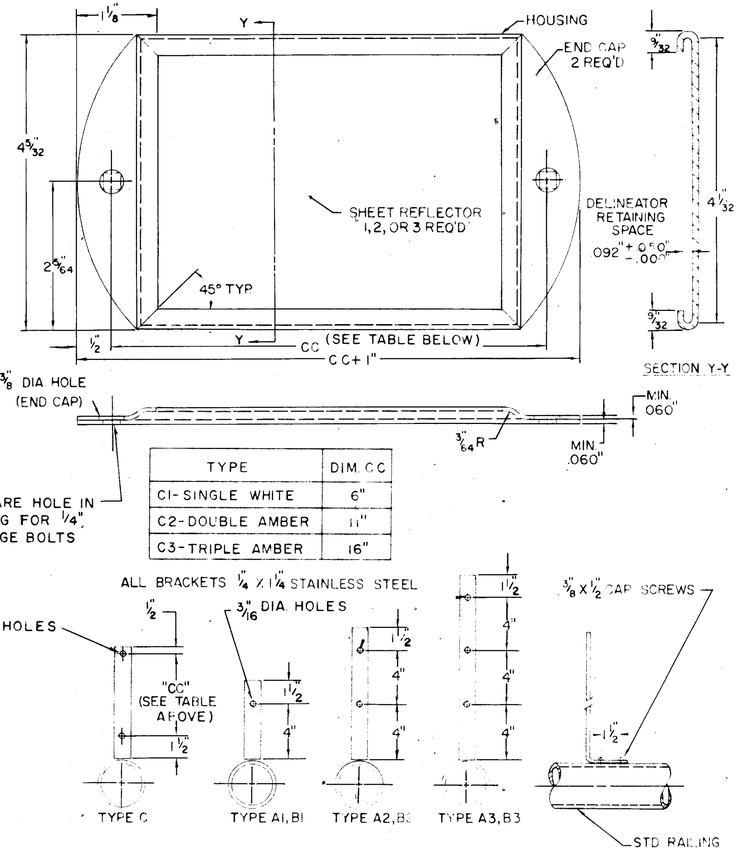


TYPE B



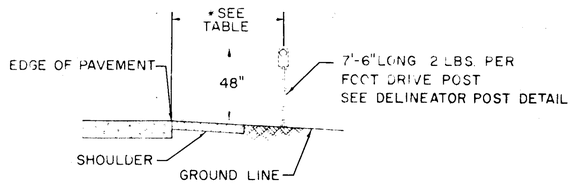


TYPE C



TYPE	DIM. CC
C1- SINGLE WHITE	6"
C2- DOUBLE AMBER	11"
C3- TRIPLE AMBER	16"

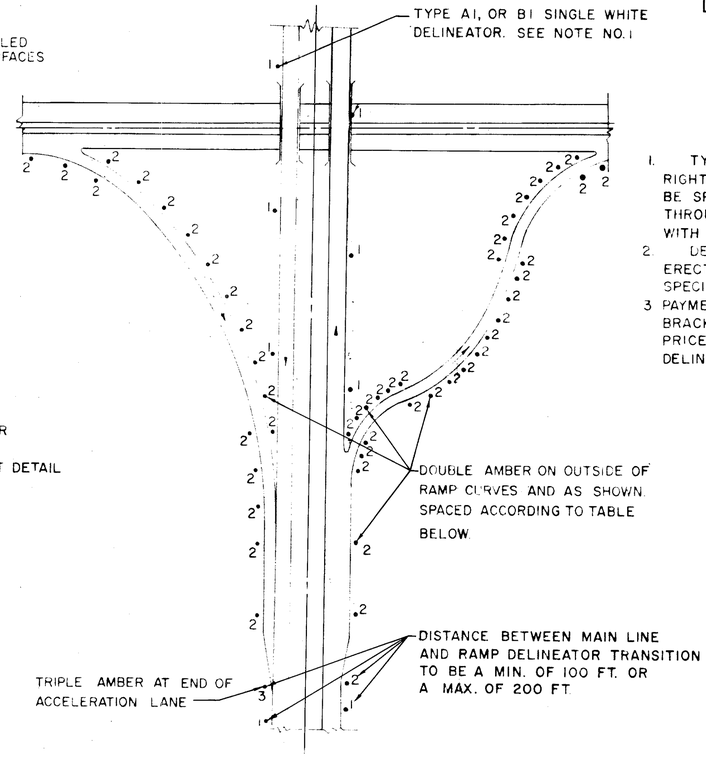
BRIDGE RAIL BRACKET



LATERAL PLACEMENT OF DELINEATORS

* TABLE

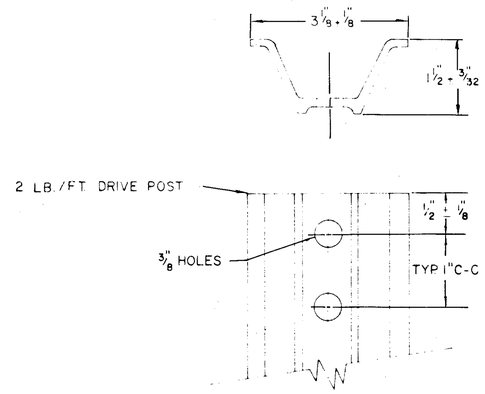
TYPE DELINEATOR	NO GUARDRAIL	GUARDRAIL
SINGLE WHITE	12'-6"	6" OUTSIDE
DOUBLE AMBER RIGHT SIDE	8'-6"	6" OUTSIDE
DOUBLE AMBER LEFT SIDE	4'-6"	6" OUTSIDE
TRIPLE AMBER	12'-6"	6" OUTSIDE



TYPICAL DELINEATOR USE

NOTES

1. TYPE A1 OR B1 DELINEATORS ON THE RIGHT OF THE THROUGH ROADWAY ARE TO BE SPACED AT 200 FT. INTERVALS THROUGHOUT, REGARDLESS OF CURVES, WITH 25' INCREMENTS.
2. DELINEATORS SHALL BE FURNISHED AND ERECTED IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION NO. I-127, (1-15-62).
3. PAYMENT FOR SUPPORTS (DRIVEPOST OR BRACKET) SHALL BE INCLUDED IN THE UNIT PRICE BID PER EACH FOR "ITEM I-127 DELINEATORS".



DELINEATOR POST

DELINEATOR SPACING ON RAMP HORIZONTAL CURVES

RADII, F.T. FROM	RADII, F.T. TO	SPACING ON CURVE	SPACING 1ST SPACE *
TANGENT	2,276	100'	100'
2,275	1,801	90'	100'
1,800	1,401	80'	100'
1,400	1,001	70'	100'
1,000	751	60'	100'
750	551	50'	80'
550	326	40'	70'
325	———	30'	60'

* FIRST SPACE IN ADVANCE AND BEYOND CURVE.

DELINEATOR DETAILS

2	OHIO		

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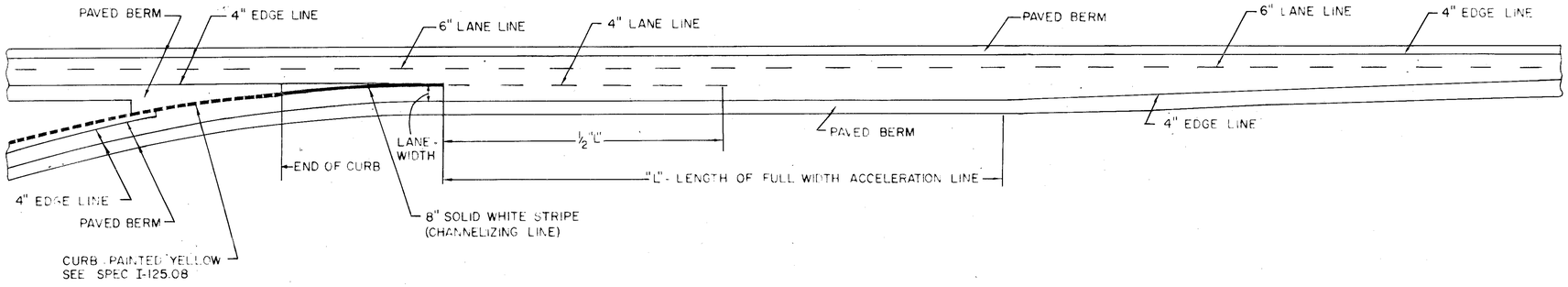
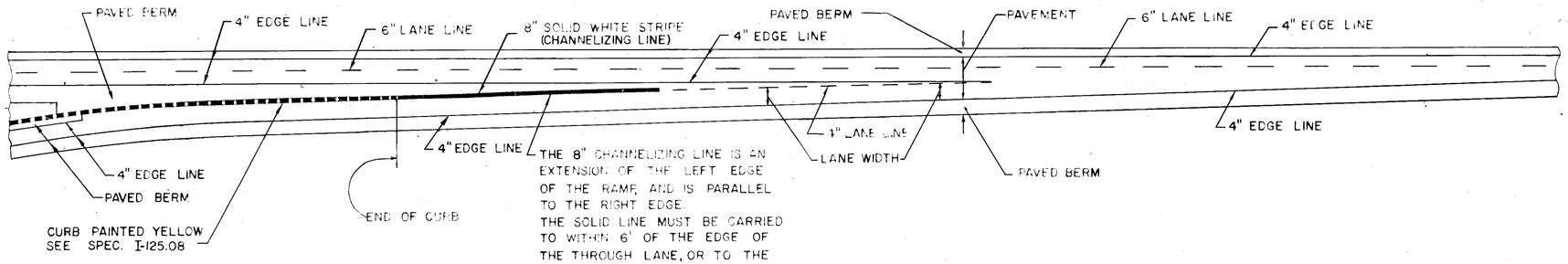
GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I.-0.00

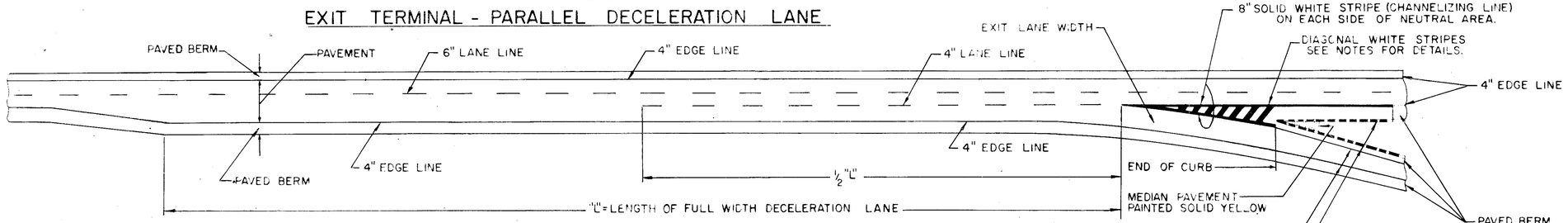
ENTRANCE TERMINAL - PARALLEL ACCELERATION LANE



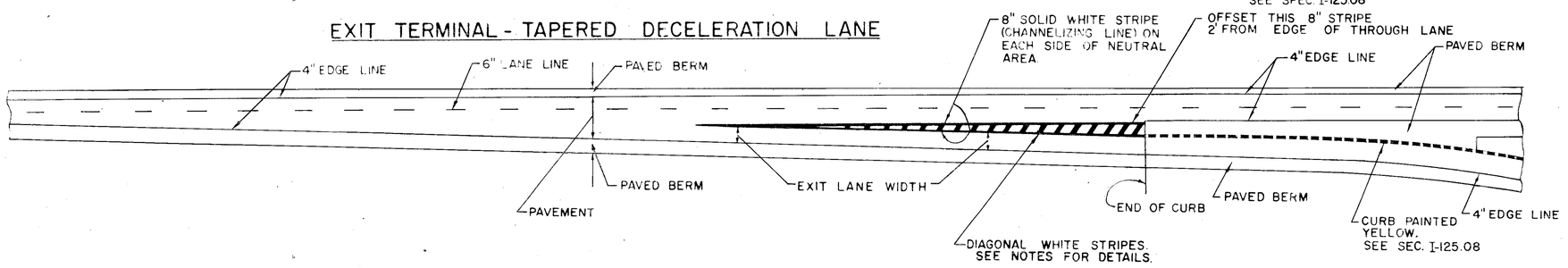
ENTRANCE TERMINAL - TAPERED ACCELERATION LANE



EXIT TERMINAL - PARALLEL DECELERATION LANE



EXIT TERMINAL - TAPERED DECELERATION LANE



NOTES

EDGE LINES SHALL BE PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SUPPLEMENTAL SPECIFICATION No. I-125 AND DEFINED IN SECTION I-125.06.

LANE LINES SHALL BE PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SUPPLEMENTAL SPECIFICATION No. I-125 AND DEFINED IN SECTION I-125.07.

CHANNELIZING LINES SHALL BE CONTINUOUS WHITE BEADED STRIPES 8" IN WIDTH PLACED IN THE LOCATIONS AS SHOWN TO CONFORM TO SUPPLEMENTAL SPECIFICATION No. I-125 AND DEFINED IN SECTION I-125.07b.

DIAGONAL STRIPES IN EXIT RAMP MARKINGS SHALL BE 2' WIDE WHITE BEADED STRIPES SET AT A 45° ANGLE TO THE CENTER LINE OF THE THROUGH PAVEMENT AND SLANTED IN THE DIRECTION OF THE FLOW OF TRAFFIC ON SAID PAVEMENT. SPACE BETWEEN THE 2' DIAGONAL STRIPES SHALL BE 6' AS MEASURED PARALLEL TO THE CENTER LINE OF THE THROUGH PAVEMENT. PAINT ON THE DIAGONAL STRIPES SHALL BE APPLIED AT THE RATE OF ONE GALLON TO EACH 100 SQUARE FEET AND GLASS BEADS SHALL BE APPLIED AT THE RATE OF SIX POUNDS PER GALLON OF PAINT. DIAGONAL WHITE STRIPES SHALL BE PLACED BETWEEN THE TWO 8" WHITE CHANNELIZING LINES AT EXIT RAMPS AS SHOWN TO CONFORM TO SUPPLEMENTAL SPECIFICATION No. I-125 AND DEFINED IN SECTION I-125.07c.

PAVEMENT MARKING DETAILS

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY. 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
235		1080	1585		
	2556	1070		5998	89
225		1080	1654	0	
	946	1070		2374	33
235		1080	1811	0	
	992	1070		2485	34
235		1080	1720	0	
	261	1070		637	9
0		EARTHWORK STA 16+05		0	0

0.24%
1072.68
1076.5
1074.91
18+00
1080.3
0.24%
1072.68

1076.74
1072.92
1075.15
17+00
1081.4
1072.92

1076.41
1073.01
1075.20
16+62.74
1082.6
1073.01

BEGIN PROJECT
EQUATION STA 16+62.74 AHEAD
STA. 1232+00.22 BACK

0.24%
1073.10
1077.20
Excavation Line
1075.30
16+25
1082.3
0.24%
1073.10

BEGIN WORK
16+05

150 100 50 0 50 100 150

16+62.74 TO 1

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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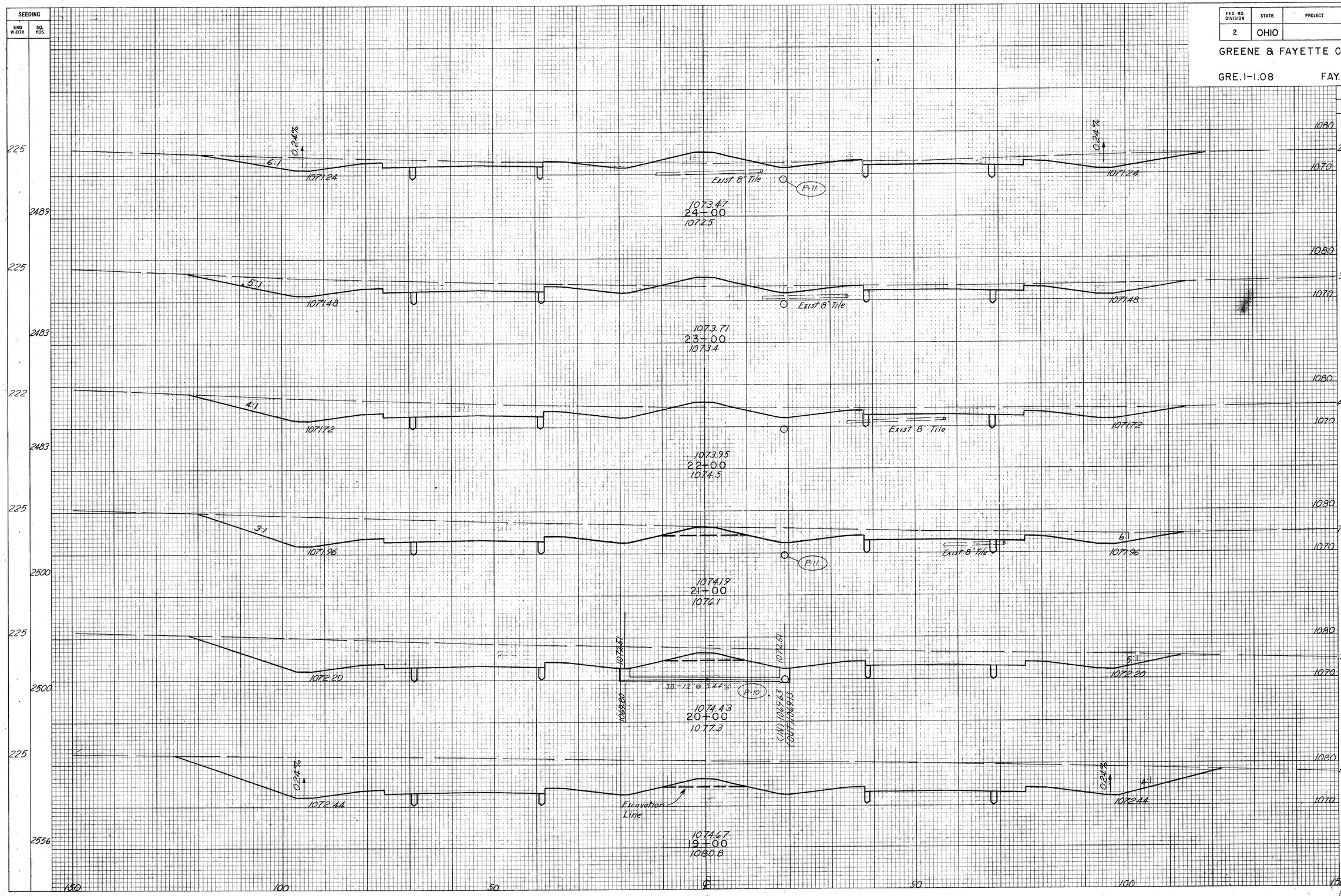
GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY. 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
225			271		41
	2489			1131	120
225			340		24
	2483			1546	67
222			495		12
	2483			2304	67
225			749		0
	2500			3104	89
225			927		0
	2500			4770	89
225			1649		0
	2556			5989	89



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19 TO 24

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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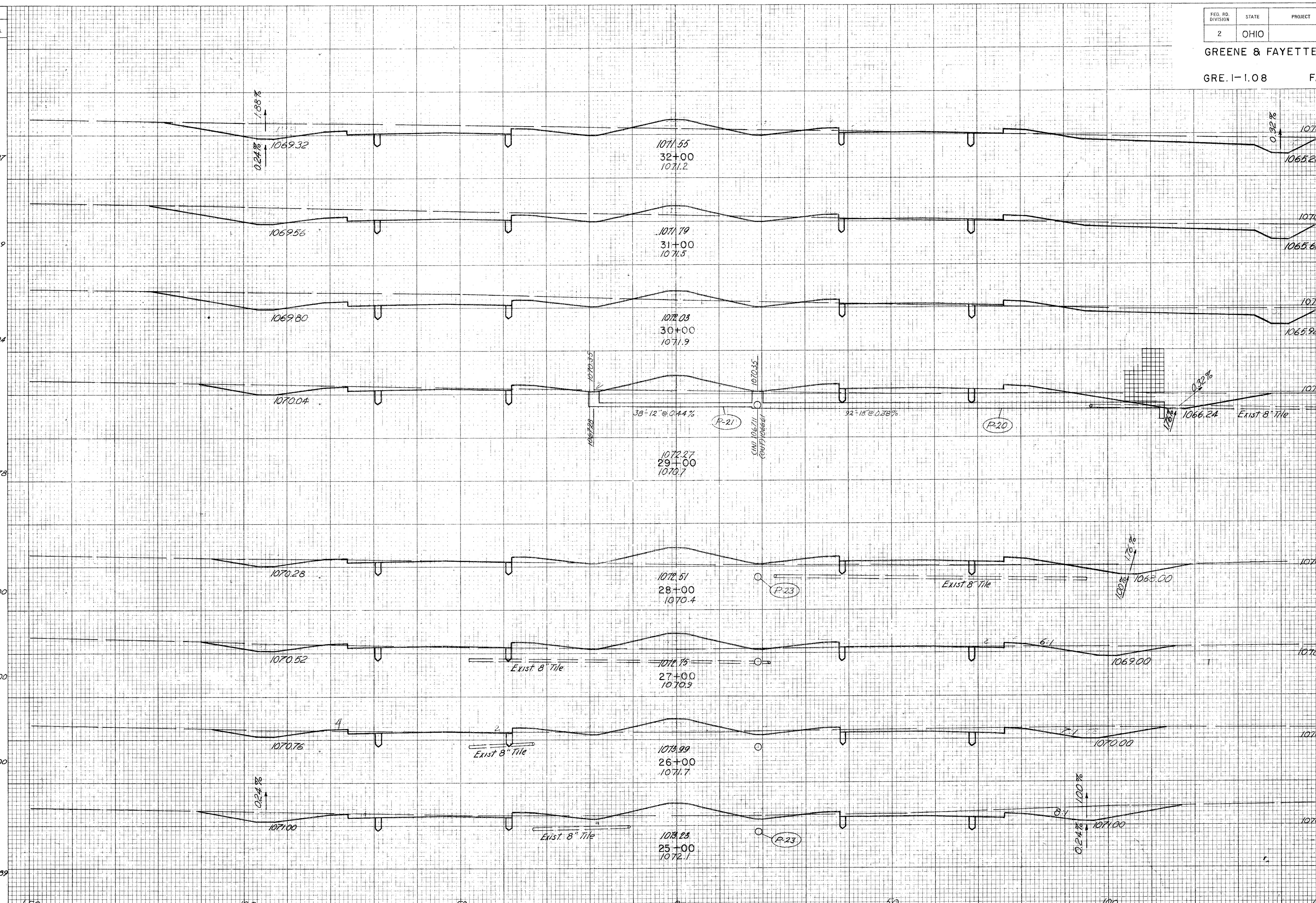
GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00



Station	Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
32+00	225	2487	312	60	1139	250
31+00	220	2489	303	75	1235	280
30+00	228	2494	346	76	976	454
29+00	221	2478	163	169	436	646
28+00	225	2500	72	180	285	502
27+00	225	2500	82	91	420	317
26+00	225	2500	145	80	656	289
25+00	225	2489	209	76	889	217

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FED. RD. DIVISION	STATE	PROJECT	
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GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
217	2517	96	822	239	3416
236	2039	33	1055	61	3731
131	2161	0	960	63	3672
258	2633	34	1023	191	3516
216	2450	69	876	226	3296
225	2528	53	904	222	2563
230	2528	67	480	233	1265
225	2500	126	203	811	487

0.20%
1061.49
1061.31
115'-15" @ 1.24%
P-31
1066.70
1066.11
P-32
OUT 1061.22
IN 1063.11
1063.27
1069.63
40+00
1064.7
10"-12" @ 100'
0.10%
1070
1063.10
Exist 15" Tile
P-34
150
0.20%
1061.51
1069.87
39+00
1064.1
EARTHWORK LIMITS
6:1
Exist 15" Tile
1070.11
38+00
1064.3
1063.20
150
Exist 15" Tile
P-36
1063.90
Exist Two-8" Tile
1070.35
37+00
1065.2
Exist 6" Tile
Exist 8" V.S.P
Air Well
0.20%
1063.40
0.28%
1070.59
36+00
1065.4
Exist 6" Tile
0.10%
1064.00
0.32%
0.28%
1063.68
Exist 4" Tile
Exist 6" Tile
Exist 6" Tile
1070.83
35+00
1065.9
1064.32
Exist 4" Tile
6:1
1065.56
1071.07
34+00
1068.2
Exist 6" Tile
1064.64
1.33%
8:1
1067.44
0.52%
1071.31
33+00
1069.7
1064.98
150
100
50
℄
50
100
150

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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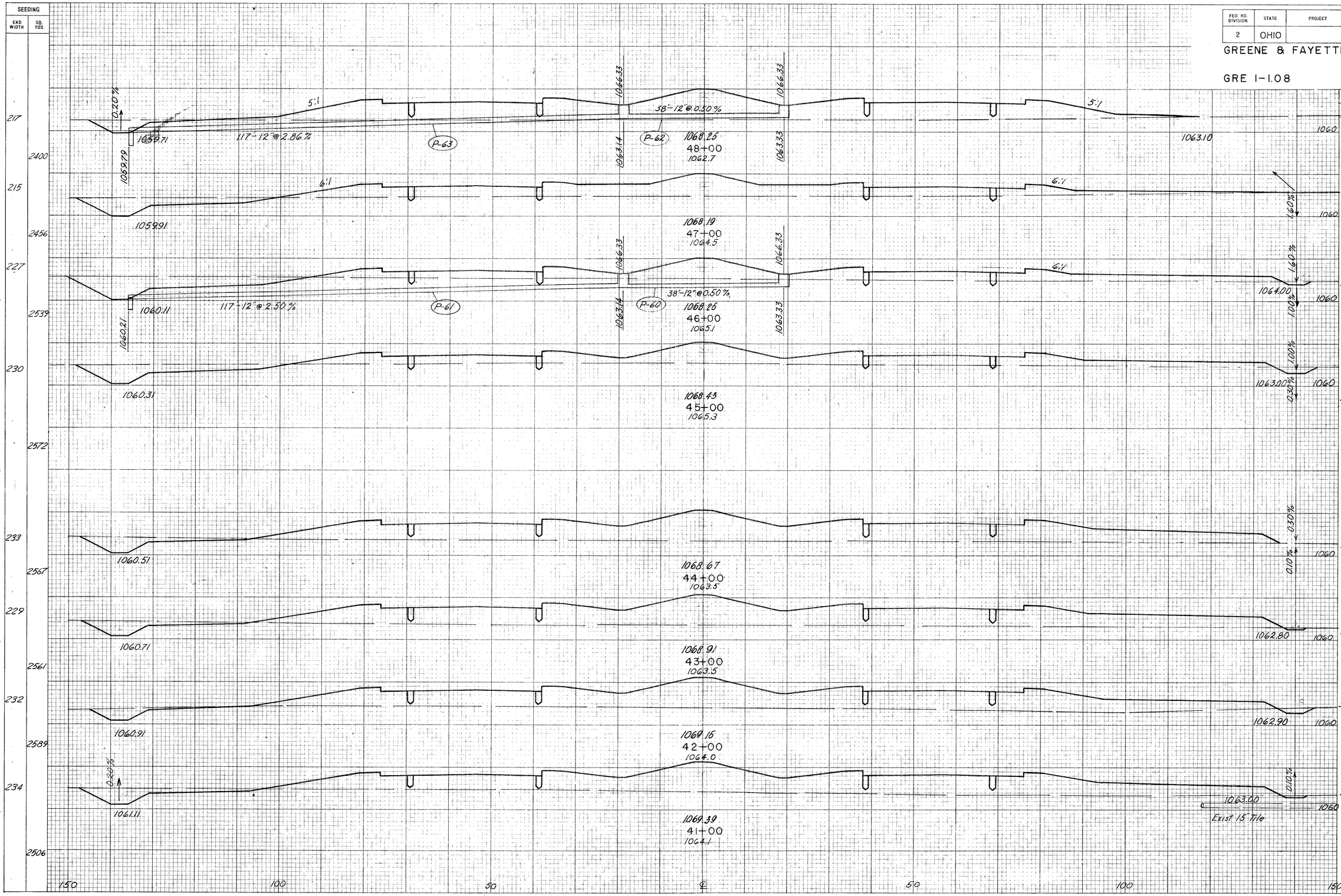
GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		34	845		
217	2400			241	2557
215		96	536		
	2456			468	1830
227		157	452		
	2539				
230		108	475	491	1717
	2572			304	2637
233		56	949		
	2567			185	3530
229		44	957		
	2561			150	3526
232		37	947		
	2589			200	3507
234		71	947		
	2506			309	3276



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41 TO 48

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
225		1058.11 0.20% 1060 1061.04 0.24%	60	1331		
	2500	1070.11 56+00 1061.9			239	4800
225		1058.31 1060 1061.28	69	1261		
	2517	1069.87 55+00 1062.0			268	4268
228		1058.51 0.24% 1060 1061.52	76	1044		
	2554	1068.68 54+00 1062.4			246	3492
230		1058.71 1060	57	842		
	2556	1069.39 53+00 1063.5			211	3089
230		1058.91 1060	57	826		
	2526	1069.16 52+00 1063.0			178	3555
225		1059.11 1060	39	1094		
	2500	1068.91 51+00 1062.0			142	4124
225		1059.31 1060	38	1133		
	2528	1068.67 50+00 1061.7			144	4155
230		1059.51 0.20% 4:1 4:1 1060	40	1111		
	2483	1068.43 49+00 1061.7			137	3622
150		100 50 ℄ 50 100 150				

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FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

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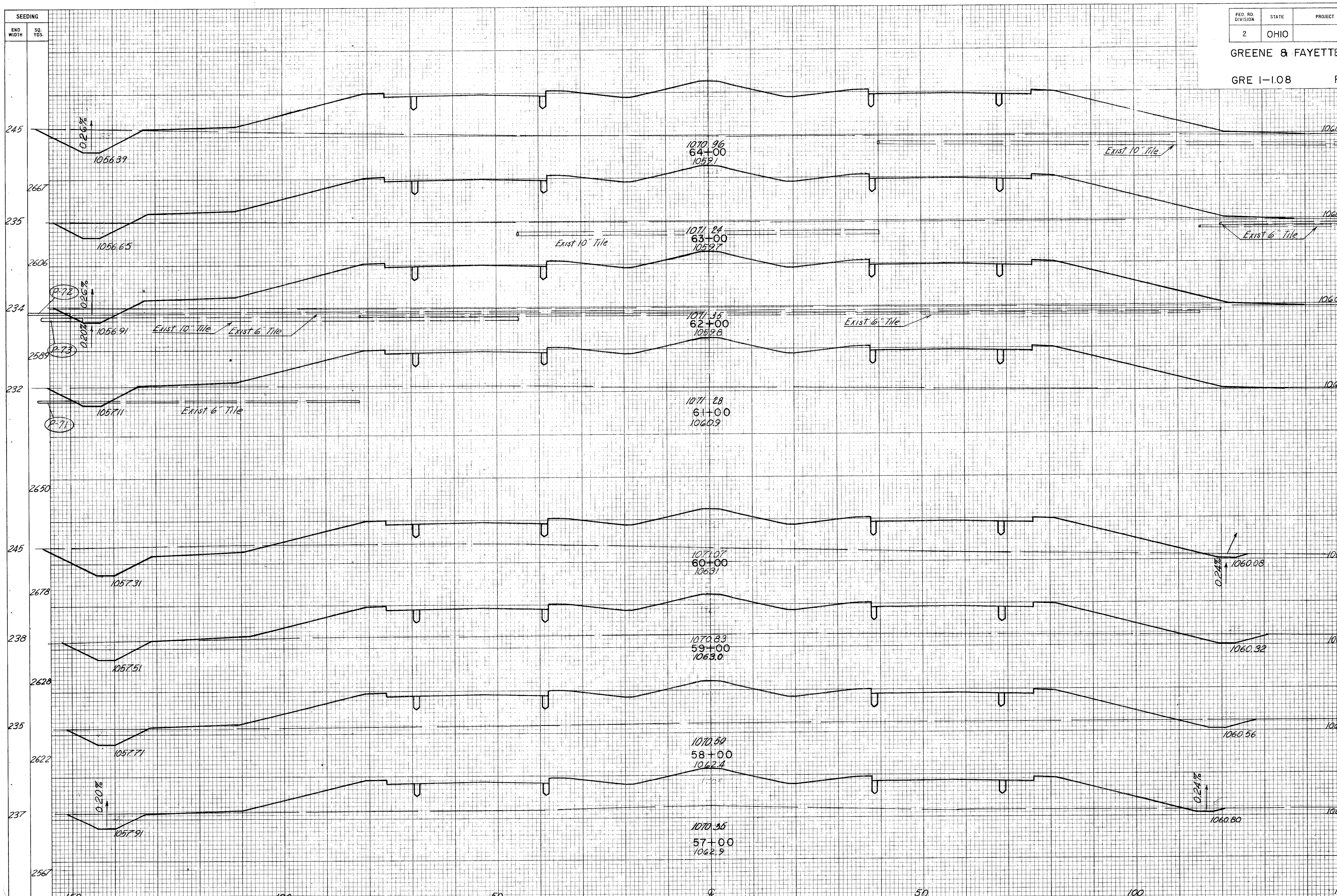
GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00



Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
245		83	2020		
	2667			250	7842
235		42	2215		
	2606			148	7772
234		38	1982		
	2589			178	7065
232		58	1833		
	2650			418	5750
245		168	1272		
	2678			465	4887
238		83	1367		
	2628			276	5218
235		66	1451		
	2622			218	5194
237		52	1354		
	2567			207	4972

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FED. RD. DIVISION	STATE	PROJECT	
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GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-000

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
		1060			
234		95	1291		
	2622			322	5437
238		1060			
		79	1645		
	2622			230	6031
234		1060			
		45	1612		
	2583			180	5970
231		1060			
		52	1612		
	2561			209	6118
230		1060			
		61	1692		
	2567			268	6366
232		1060			
		84	1746		
	2611			294	6546
238		1060			
		75	1789		
	2644			231	6998
238		1060			
		50	1990		
	2683			246	5574

0.12% 1054.73 Exist 15" Tile 1065.76 38-12 @ 0.50% 1065.76 1062.76 1067.46 72+00 1059.7 P-83 1062.57 P-84 93-12 @ 3.80% Median Outlet @ Sta 71+50 0.16% 1058.52 1058.00

1054.85 Exist 15" Tile 1067.90 71+00 1060.5 Exist 15" Tile 1058.68

1054.97 Exist 15" Tile 1068.34 70+00 1059.4 Exist 15" Tile 1058.84

0.12% 1055.09 0.26% 1068.78 69+00 1059.7 P-82 Exist 15" Tile P-81 1059.00

1055.35 1069.22 68+00 1060.1 Exist 15" Tile 0.16% 1059.16 1059.32

1055.61 1069.66 67+00 1059.2 1059.32

1055.87 1070.10 66+00 1060.0

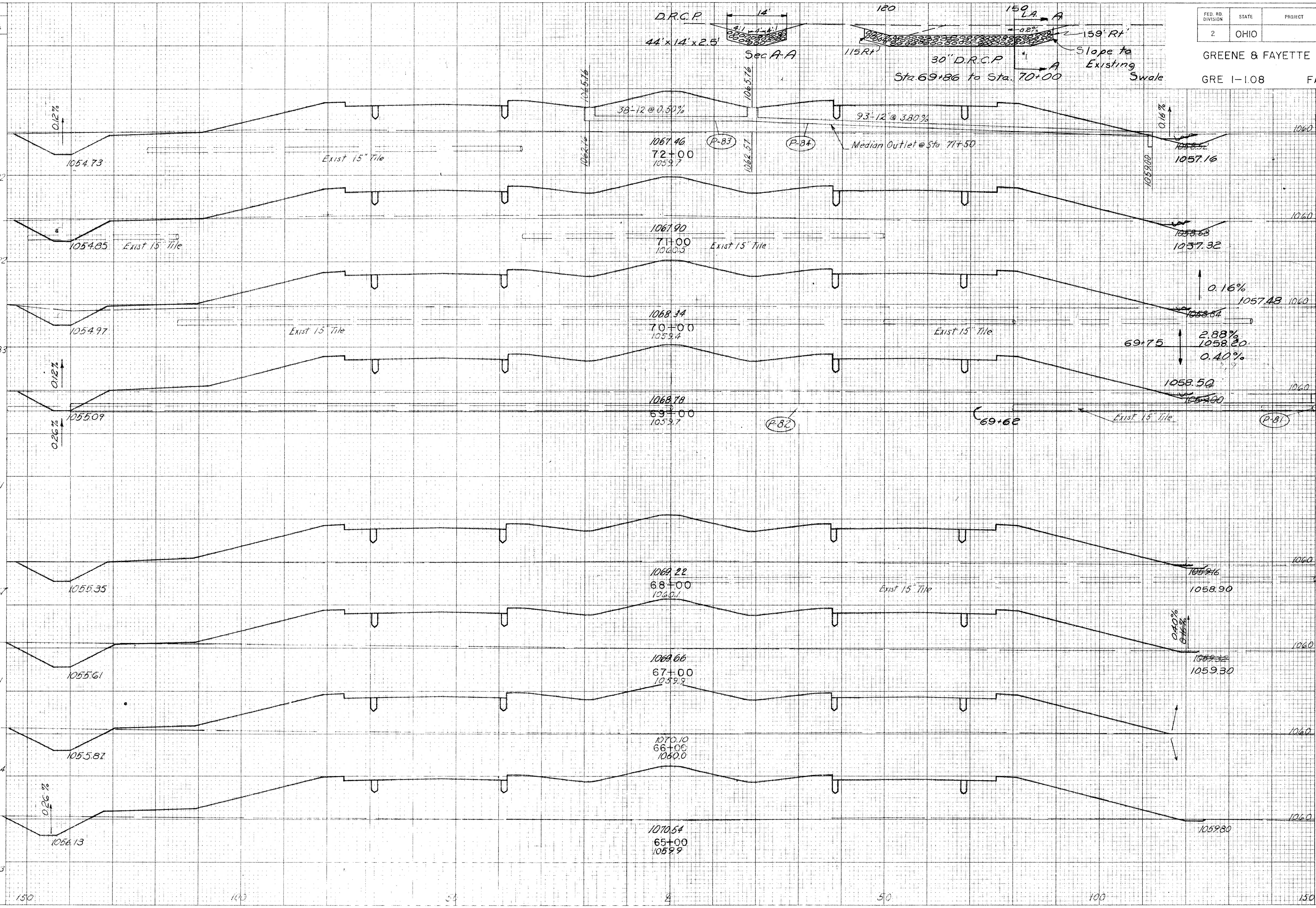
0.26% 1056.13 1070.54 65+00 1059.9 1059.80

150 100 50 0 50 100 150

65 TO 72

GREENE & FAYETTE COUNTIES 5/9

GRE 1-1.08 FAY 1-000



D.R.C.P.
44' x 14' x 2.5'
14'
Sec A-A
120
150
L.A.
A
159' Rt'
115 Rt'
30" D.R.C.P.
Sta. 69+86 to Sta. 70+00
Slope to Existing Swale
38'-12 @ 0.50%
93'-12 @ 3.80%
Median Outlet @ Sta. 71+50
P-83
P-84
P-82
P-81
1067.46
72+00
1059.7
1054.73
1057.16
Exist 15" Tile
1067.90
71+00
1054.85
1057.32
1068.34
70+00
1054.97
1057.48
0.16%
2.88%
1058.20
0.40%
69+75
1058.50
1068.78
69+00
1055.09
69+62
1069.22
68+00
1055.35
1058.90
1069.66
67+00
1055.61
1059.30
1070.10
66+00
1060.0
1055.87
1070.54
65+00
1059.9
1056.13
1059.80
150
100
50
50
100
150

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
234		95	1291		
	2622			322	5437
238		79	1645		
	2622			230	6031
234		45	1612		
	2583			180	5970
231		52	1612		
	2561			209	6118
230		61	1692		
	2567			268	6366
232		84	1746		
	2611			294	6546
238		75	1789		
	2644			231	6998
238		50	1990		
	2683			246	5574

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

74
162

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
239		228	471		
	2633			772	2189
235		189	711		
	2589			688	2644
231		183	717		
	2578			724	2485
233		208	625		
	2606			722	2633
236		182	797		
	2617			591	3200
235		137	931		
	2611			420	3922
235		90	1187		
	2583			322	4515
230		84	1251		
	2578			331	4707

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73 TO 80

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

74/162

GREENE & FAYETTE COUNTIES

6/9

GRE 1-1.08 FAY 1-0.00

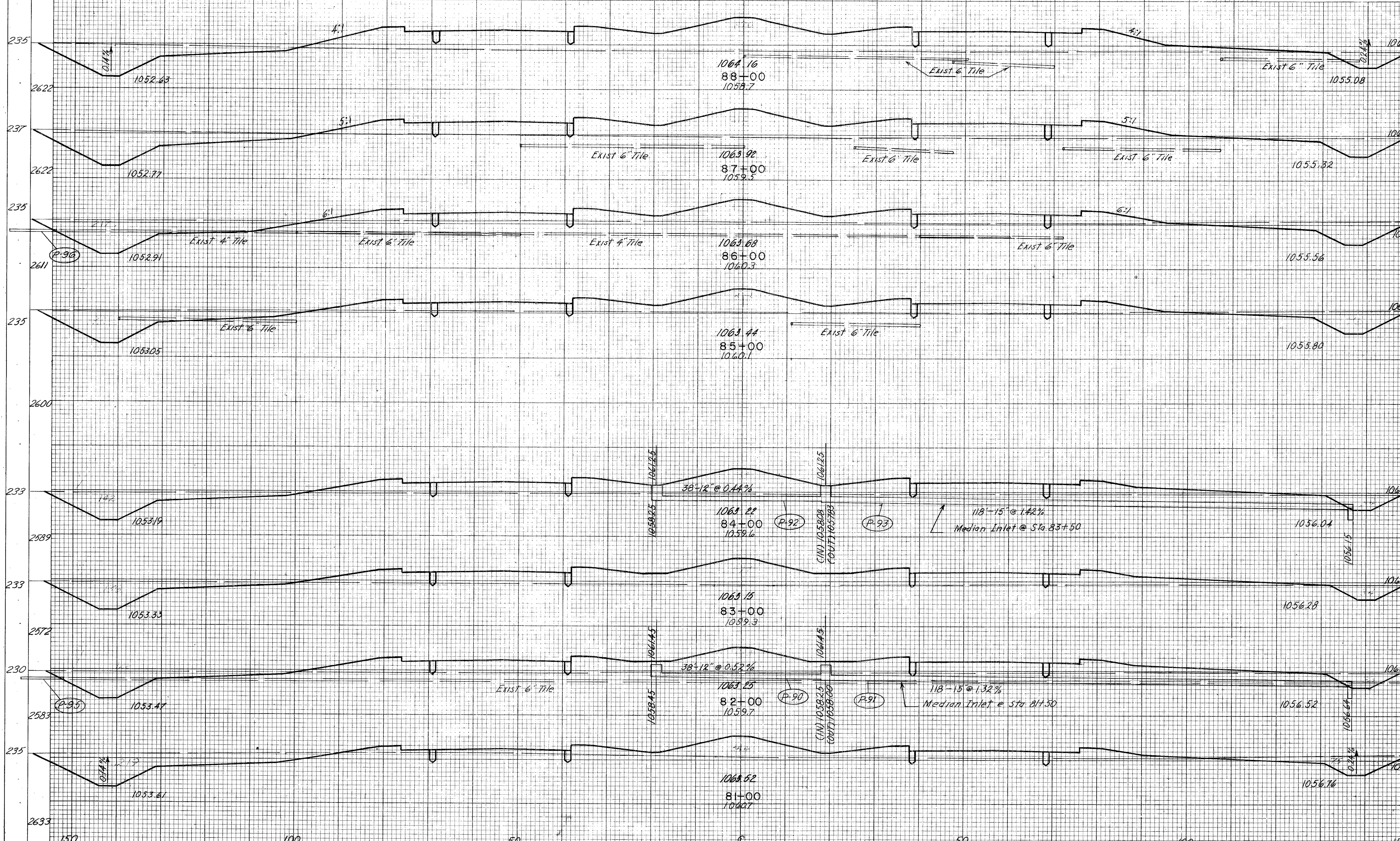
SEEDING			END AREA		VOLUME	
END WIDTH	SQ YDS		CUT	FILL	CUT	FILL
239		1063.94 80+00 1060.2	228	471		
	2633				772	2189
235		1064.38 79+00 1059.7	189	711		
	2589				683	2644
231		1064.82 78+00 1059.9	183	717		
	2578				724	2485
233		1065.26 77+00 1060.9	208	625		
	2606				722	2633
236		1065.70 76+00 1061.0	182	797		
	2617				591	3200
235		1066.14 75+00 1060.1	137	931		
	2611				420	3922
235		1066.58 74+00 1059.5	90	1187		
	2583				322	4515
230		1067.02 73+00 1059.4	84	1251		
	2578				331	4707

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

Station	SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
88+00	235		199	896		
		2622			872	2804
87+00	237		272	618		
		2622			1101	1848
86+00	235		323	380		
		2611			1131	1507
85+00	235		288	434		
		2600			859	1741
84+00	233		176	556		
		2589			641	2046
83+00	233		170	599		
		2572			609	2191
82+00	230		159	584		
		2583			839	1718
81+00	235		294	344		
		2633			1511	1509



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FED RD DIVISION	STATE	PROJECT	
2	OHIO		

75/162

GREENE & FAYETTE COUNTIES 7/9

GRE 1-1.08 FAY 1-0.00

SEEDING

END WIDTH	SQ YDS
2.44	
2.22	
2.37	
2.35	
2.11	
2.35	
2.00	
2.33	
2.89	
2.33	
2.72	
2.30	
2.83	
2.35	
2.33	
2.50	

	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
1060	199	896		
1060	272	618	872	2804
1060	323	380	1101	1848
1060	288	434	1131	1507
1060	176	556	859	1741
1060	170	599	641	2046
1060	159	584	609	2191
1060	294	344	839	1718
			1511	1509

4:1 — 0.44% — 1052.63 — 1064.16 — 88+00 — 1059.7 — Exist 6" Tile — 4:1 — 2.44% — 1060 — 1054.60

5:1 — 1052.77 — Exist 6" Tile — 1063.92 — 87+00 — 1059.5 — Exist 6" Tile — 5:1 — Exist 6" Tile — 1060 — 1054.76

6:1 — P-96 — 1052.91 — Exist 4" Tile — Exist 6" Tile — Exist 4" Tile — 1063.68 — 86+00 — 1060.3 — Exist 6" Tile — 6:1 — 1060 — 1054.92

1053.05 — Exist 6" Tile — 1063.44 — 85+00 — 1060.1 — Exist 6" Tile — 1060 — 1055.08

1053.19 — 38-12" @ 0.44% — 1061.25 — 1058.25 — 1063.22 — 84+00 — 1059.6 — P-92 — CIN 1058.20 COUT 1057.88 — P-93 — 118-15" @ 1.42% Median Inlet @ Sta. 83+50 — 1060 — 1055.24 — 1056.15

1053.33 — 1063.15 — 83+00 — 1059.3 — 1060 — 1055.40

P-95 — 1053.47 — 38-12" @ 0.52% — 1061.45 — 1058.45 — Exist 6" Tile — 1063.25 — 82+00 — 1059.7 — P-90 — CIN 1058.25 COUT 1058.00 — P-91 — 118-15" @ 1.32% Median Inlet @ Sta. 81+50 — 1060 — 1055.56 — 1056.64

0.44% — 1053.61 — 1063.52 — 81+00 — 1060.7 — 0.22% — 1060 — 1055.72

150 100 50 0 50 100 150

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81 TO 88

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

76/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
225					
226	902				
225	2528				
230	2583				
235	2594				
232	2594				

4:1 0.40% 105560 P.110 1065.42 93+15 1056.4 93+11.50 BRIDGE LIMITS 92+38.50 BRIDGE LIMITS 4:1 1060 74 1520 59 1052.17 0.20%

0.42% 36 1052.02 P.113 1065.21 92+36 1056.4 21 0.24% 1060 54 1532 18 1054.05

82 1052.07 1065.12 P.113 92+00 1056.8 2:1 1060 102 1262 1054.16 Exist 6" Tile

8:1 6:1 Var 8:1 1064.98 91+00 1057.4 3:1 1060 109 1185 74 Exist 6" Tile 1054.36

75 1052.21 4:1 8:1 6:1 Var 8:1 1064.64 90+00 1057.4 4:1 1060 138 1149 27 Exist 6" Tile 1054.60

111 1052.35

0.14% 114 1052.49 8:1 Var Var 8:1 1064.40 89+00 1058.4 Exist 6" Tile 35 0.24% 1060 149 1002 1054.84 Exist 6" Tile

289 5174 848 4531 457 4322 531 4168 646 3700

150 100 50 ℄ 50 100 150

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

76/162

GREENE & FAYETTE COUNTIES

8/9

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ YDS	CUT	FILL	CUT	FILL
225					
		74	1520		
226	902				
225	2528	102	1262	289	5174
230	2593	109	1185	848	4531
235	2594	138	1149	457	4322
232	2594	149	1002	531	4168
	150			646	3700

4:1 0.40% 1055.60 P.110 1065.42 93+15 1056.4 93+11.50 BRIDGE LIMITS 92+38.50 BRIDGE LIMITS 1060 1052.17 0.25%

0.24% 1052.02 P.113 1065.21 92+36 1056.4 1060 1053.90

1052.07 P.113 1065.12 92+00 1056.8 1060 EXIST 6" TILE 1053.96

1052.21 8:1 6:1 Var. 8:1 1064.88 91+00 1057.4 1060 EXIST 6" TILE 1054.12

1052.35 4:1 8:1 6:1 Var. 8:1 1064.64 90+00 1057.4 1060 EXIST 6" TILE 1054.28

1052.49 8:1 Var. Var. 8:1 1064.40 89+00 1058.4 1060 EXIST 6" TILE 1054.44

150 100 50 ℄ 50 100 150

89 TO 93+15

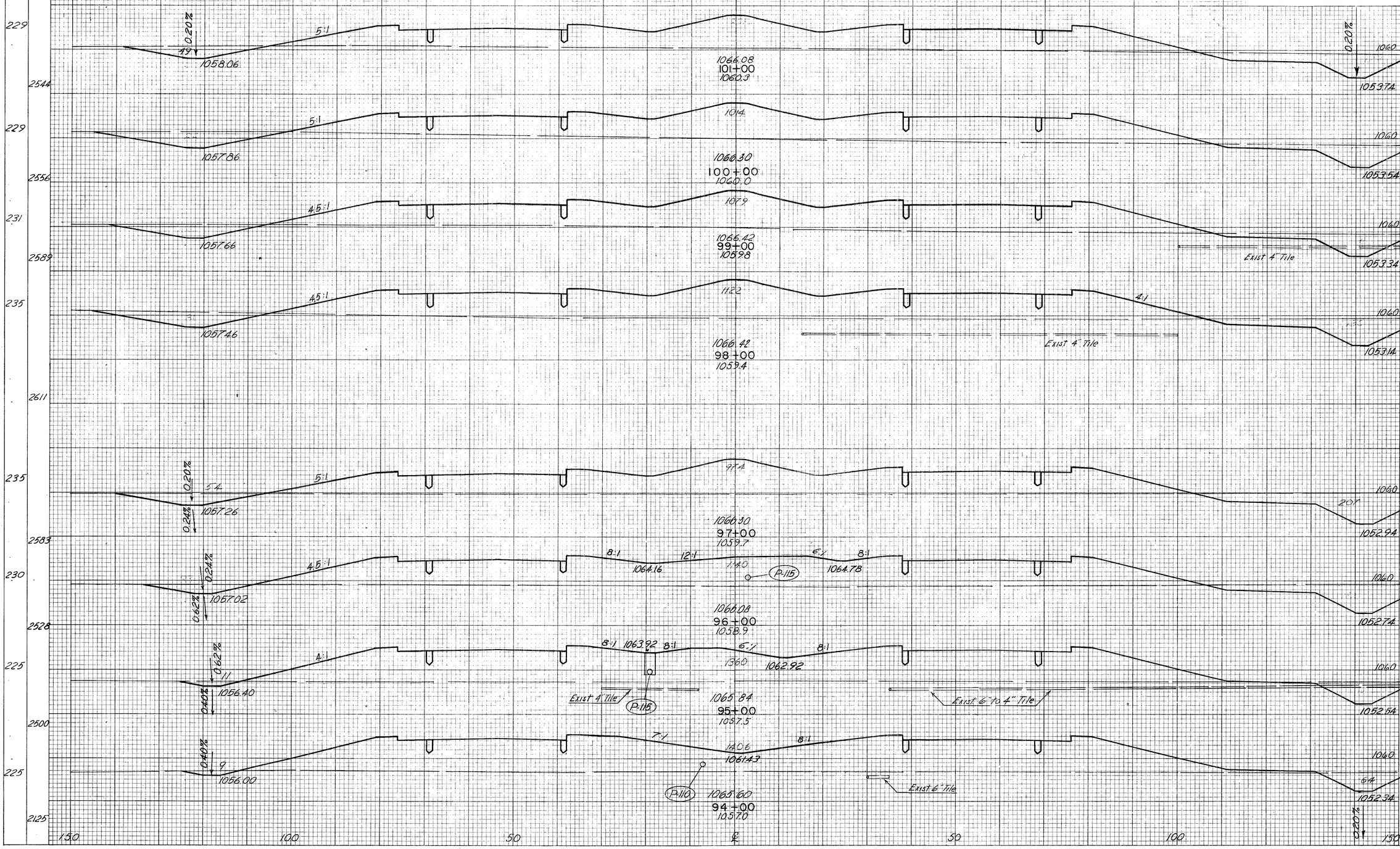
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

77
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
229					
	2544				
229					
	2556				
231					
	2589				
235					
	2611				
235					
	2583				
230					
	2528				
225					
	2500				
225					
	2125				



		668	3541
		637	3876
		675	4076
		874	4189
		881	3915
		602	4630
		339	5122
		231	4[illegible]

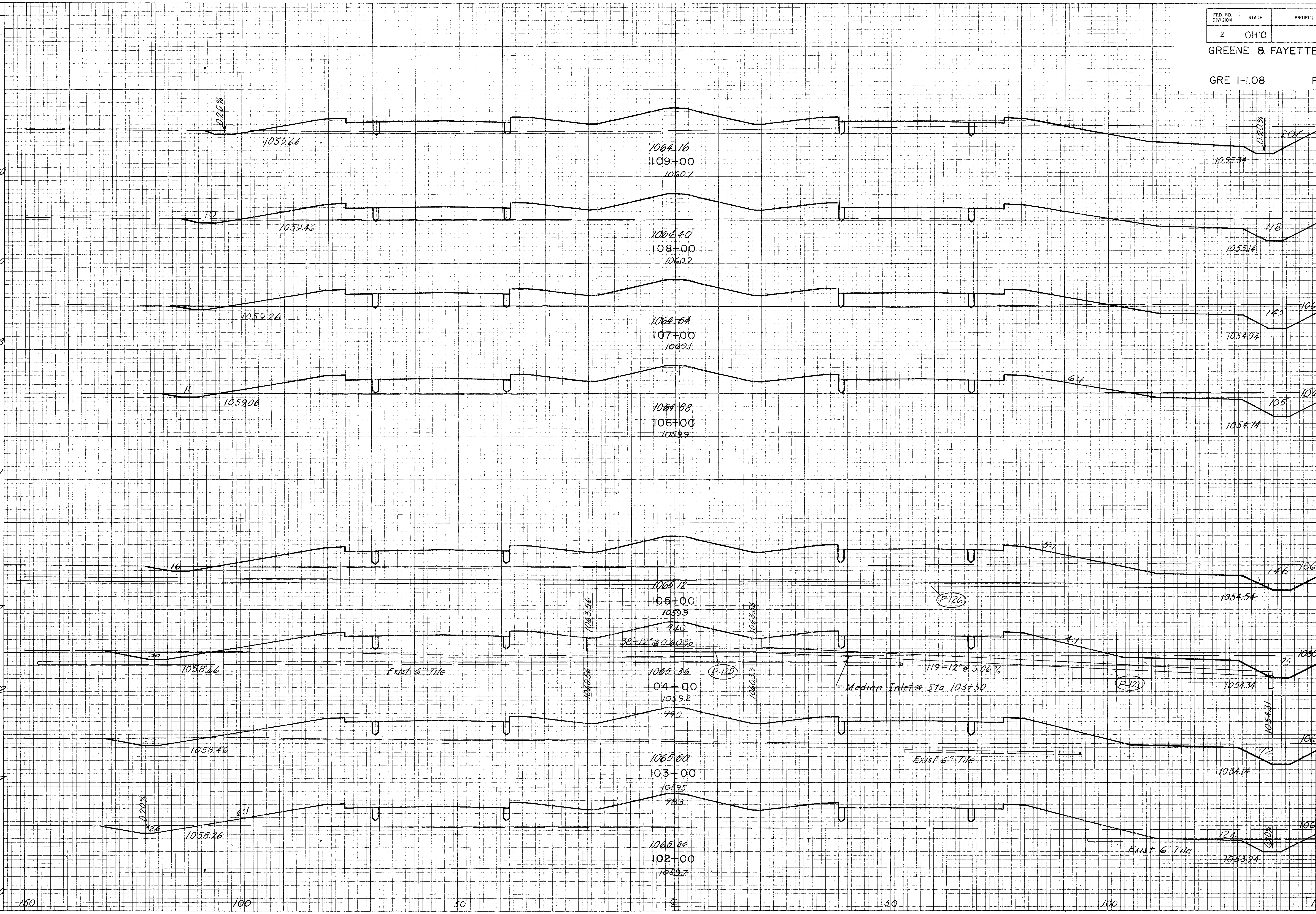
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

78/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING	
END WIDTH	SQ. YDS.
225	2500
225	2550
234	2578
230	2561
231	2567
231	2572
232	2567
230	2550



0.20%
1059.66
1064.16
109+00
1060.7
1055.34
207
1060
10
1059.46
1064.40
108+00
1060.2
118
1055.14
1059.26
1064.64
107+00
1060.1
145
1054.94
11
1059.06
1064.88
106+00
1059.9
6:1
105
1054.74
16
5:1
1065.12
105+00
1059.9
P-126
146
1054.54
1063.56
940
38'-12" @ 0.60%
36
1058.66
Exist 6" Tile
1065.36
104+00
1059.2
P-120
1060.56
1060.33
119'-12" @ 5.06%
Median Inlet @ Sta 103+50
P-121
4:1
95
1054.34
1054.31
990
1058.46
1065.60
103+00
1059.5
72
1054.14
983
26
1058.26
1065.84
102+00
1059.7
124
1053.94
150
100
50
℄

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
215	377		
		635	1706
128	544		
		520	2176
153	631		
		498	2490
116	714		
		730	2837
162	818		
		542	3255
131	940		
		418	3574
95	990		
		454	3654
150	983		
		594	3483

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102 TO 109

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

79 / 162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
137	563	1164	0	1351	33
137	893	808	0	1210	25
220	2472	644	6	1746	16
225	2500	299	43	870	265
225	2528	171	100	526	711
230	2556	113	284	487	1022
230	2528	150	268	644	881
225	2528	198	208	757	978
230	2528	211	320	789	1291

EARTHWORK LIMITS
0.20%
1061.22
1063.40
116+82
1068.9
EARTHWORK LIMITS
0.24%
2:1
1061.20
EARTHWORK LIMITS
1061.16
1063.31
116+45
1066.3
Excavation Line
0.24%
4.00%
1061.11
364
6
280
1061.06
1063.22
116+00
1064.4
8:1
6:1
4.00%
5.34%
1059.31
5.34%
0.20%
133
33
15
3
20
7:1
8:1
1060.86
1061.22
1061.22
38-12" @ 0.44%
1063.10
115+00
1062.7
P-130
P-131
115-18" @ 0.40%
Median Inlet @ STA 115+50
1057.76
1057.59
1057.09
1056.54
1056.63
22
7:1
6:1
1060.66
1063.10
114+00
1061.7
1061.22
1061.22
6:1
1060.46
284
38-12" @ 0.52%
1063.22
113+00
1060.8
P-123
P-124
116-15" @ 1.34%
Median Inlet @ STA 113+50
Exist 6" Tile
1058.24
1057.80
1057.79
1056.24
1056.34
1056.14
10
1060.26
Exist 6" Tile
1063.44
112+00
1061.4
P-122
1055.94
7.2
1060.06
1063.68
111+00
1062.0
1055.74
0.20%
0.20%
1059.86
1063.92
110+00
1061.8
1055.54

150 100 50 ℄ 50 100 150

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110 TO 116+82

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

80
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	
223	2461	
220	2450	
221	2506	
230	2506	
221	2461	
222	2494	
227	2528	
228	632	
227	1881	

	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
1060	6	608		
			39	1963
1060	15	452		
			69	1411
1060	22	310		
			87	913
1060	25	183		
			72	920
1060	14	314		
			296	659
1060	146	42		
			1946	122
1060	905	0		
			4239	89
1060	1384	0		
			1522	22
1060	1904	0		
			5283	83

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117+75 TO 125

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

81 / 162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
227	2511	38	1226	204	4046
225	2528	72	959	291	3146
230	2544	85	740	346	2411
228	2522	102	562	293	1950
226	2511	56	491	211	1624
226	2517	58	386	167	1741
227	2494	32	554	96	2243
222	2472	20	657	48	2343

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126 TO 133

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

82/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
228	2483	14	1530	35	6055
219	2467	5	1740	11	6157
225	2500	1	1585	9	5728
225	2500		1508	26	5355
225	2533	10	1384	67	4809
231	2539	26	1213	126	4467
226	2500	42	1199	104	4824
224	2506	14	1406	96	4874

1530
0.10%
10
1059.20
P-170
Exist 15" Tile
1069.20
141+00
1059.8
Exist 6" Tile
0.20%
4
1059.10
1740
5
1059.10
Exist 15" Tile
1068.96
140+00
1059.1
Exist 8" Tile
Exist 6" Tile
P-173
Exist 15" Tile
1060
1585
1059.00
Exist 15" Tile
1068.72
139+00
1059.2
Exist 15" Tile
Exist 6" Tile
Exist 8" Tile
P-172
1508
4
1058.90
1068.48
138+00
1059.8
1/4"
1060
1384
10
1058.80
1068.24
137+00
1060.6
1/4"
1213
24
1058.70
1068.00
136+00
1060.6
1/4"
1060.00
1199
40
1058.60
1065.96
1065.96
38-12" @0.50%
91-12" @360%
1.10%
0.40%
1058.9
1067.76
135+00
1060.6
1062.96
1062.77
P-163
Median Inlet @ STA. 135+50
P-164
1059.40
1406
0.10%
12
1058.50
1067.52
134+00
1059.4
Exist 6" Tile
P-162
0.40%
1058.50
150
100
50
50
100
150

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ON GUIL-TRACE CLOTH

134 TO 141

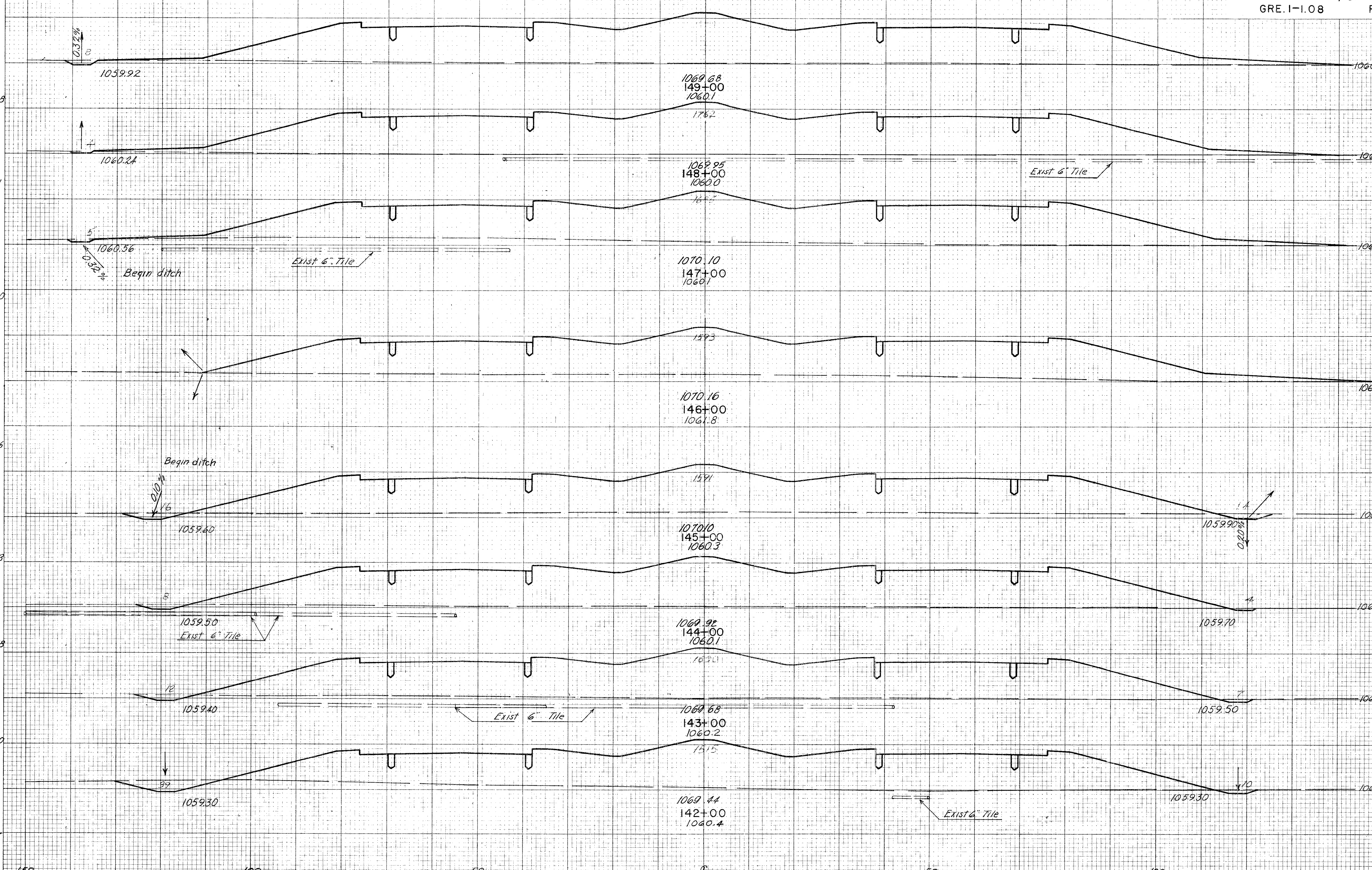
FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

83/162

GREENE & FAYETTE COUNTIES

Red 738 83-162

GRE. 1-1.08 FAY. 1-0.00



Station	Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
149+00	219		8	1644		
		2428			22	6307
148+00	218		4	1762		
		2411			16	6383
147+00	216		5	1685		
		2450			9	6070
146+00	225		0	1593		
		2506			56	5896
145+00	226		30	1591		
		2483			78	6061
144+00	221		12	1682		
		2478			57	6087
143+00	225		19	1600		
		2500			126	5768
142+00	225		49	1515		
		2517			117	5639

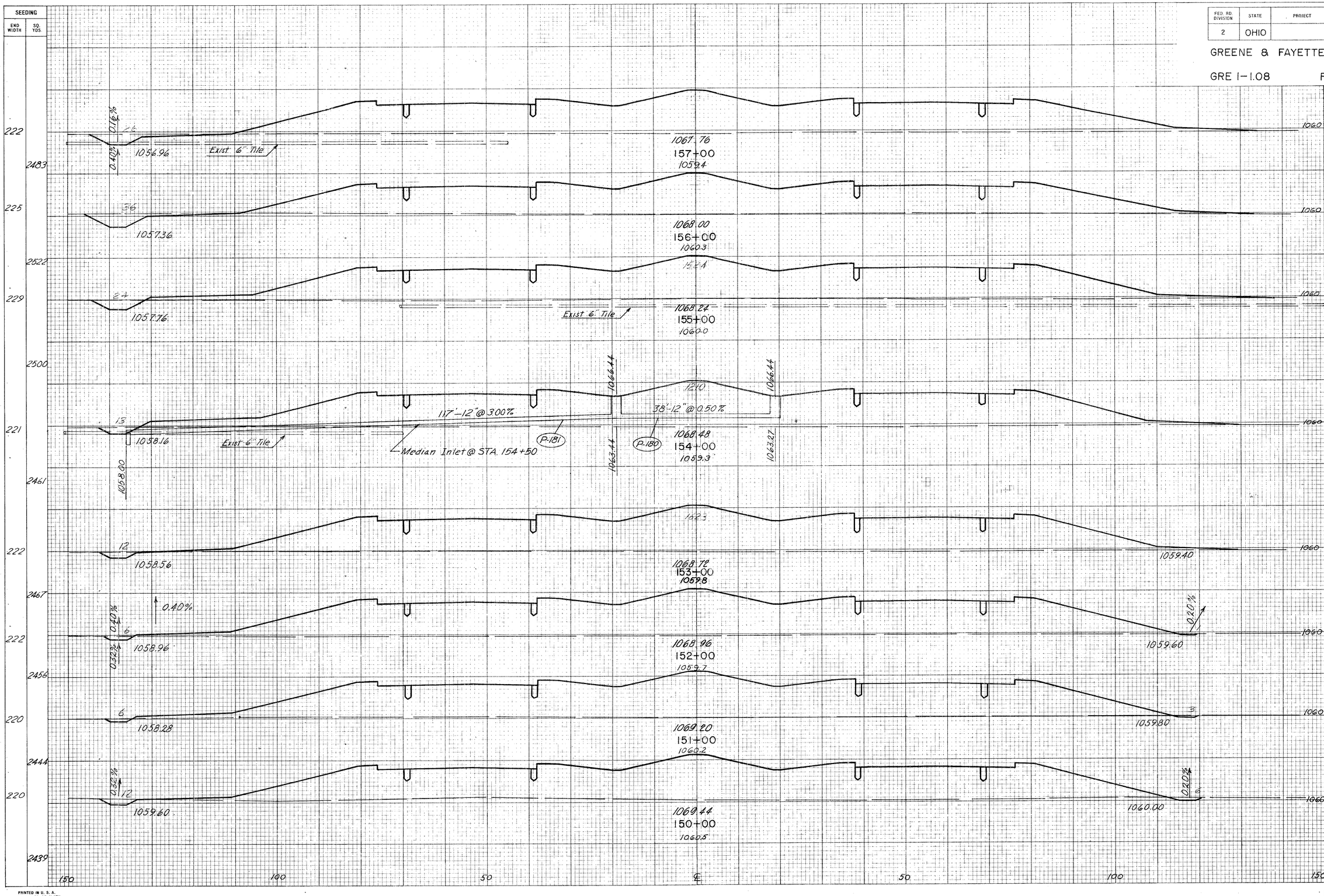
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

84/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
222	2483	26	1446	115	5183
225	2522	36	1353	111	5328
229	2500	24	1524	69	5063
221	2461	13	1210	46	5246
222	2467	12	1623	35	6172
222	2456	7	1710	30	6207
220	2444	9	1642	50	5954
220	2439	18	1573	48	5957



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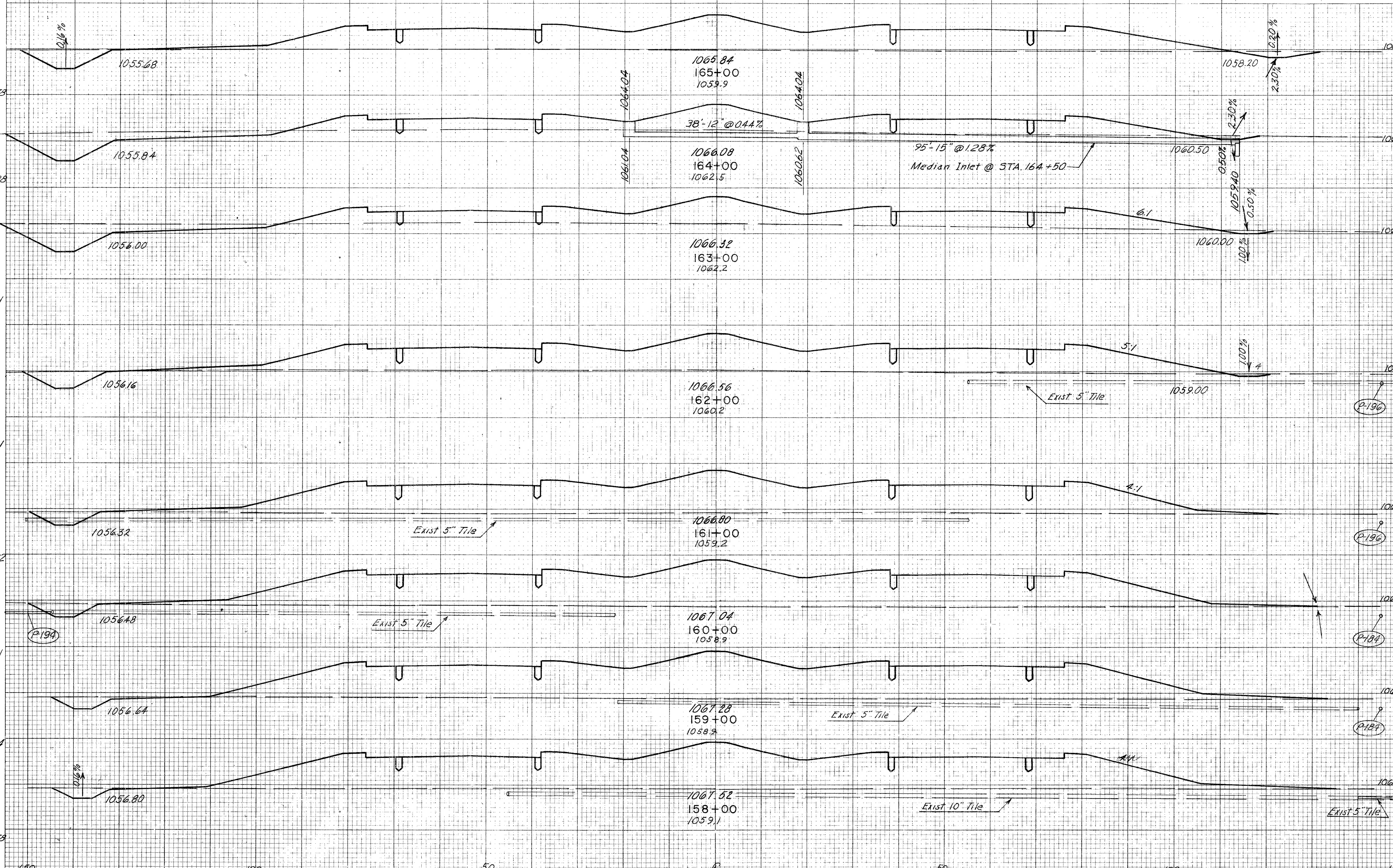
150 TO 157

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00

Station	Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
165+00	227		74	961		
		2578			417	2824
164+00	237		151	564		
		2628			563	2167
163+00	236		153	606		
		2611			370	3035
162+00	234		46	1033		
		2561			139	4320
161+00	227		28	1300		
		2522			104	5142
160+00	227		28	1471		
		2511			109	5487
159+00	225		31	1492		
		2494			104	5518
158+00	224		25	1438		
		2478			94	5433



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158 TO 165

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

86
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
231	2567	32	1123	135	4142
231	2589	41	1114	154	4150
235	2611	42	1127	154	4100
235	2611	41	1087	239	3818
235	2589	88	975	270	3383
231	2572	58	852	246	3218
232	2578	88	886	226	3844
232	2550	47	1190	224	3989

166 TO 173

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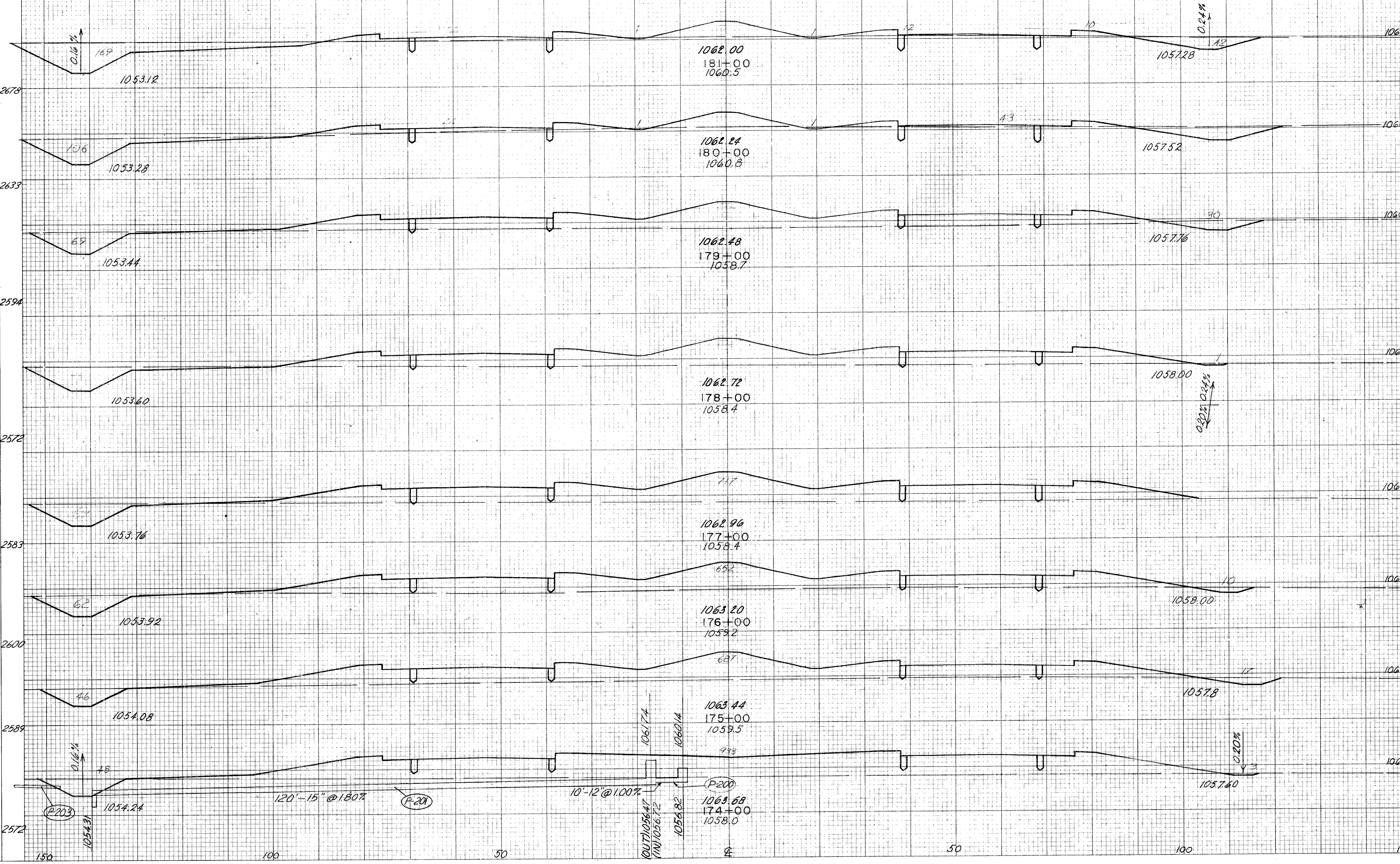
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00



Seeding: End Width	Seeding: Sq. Yds.	Station	End Area: Cut	End Area: Fill	Volume: Cut	Volume: Fill
243	2678	181+00	213	141	702	570
239	2633	180+00	166	167	491	1298
235	2594	179+00	99	534	343	2093
232	2572	178+00	86	596	287	2431
231	2583	177+00	69	717	261	2535
234	2600	176+00	72	652	250	2480
234	2589	175+00	63	687	211	3009
232	2572	174+00	51	938	154	3817

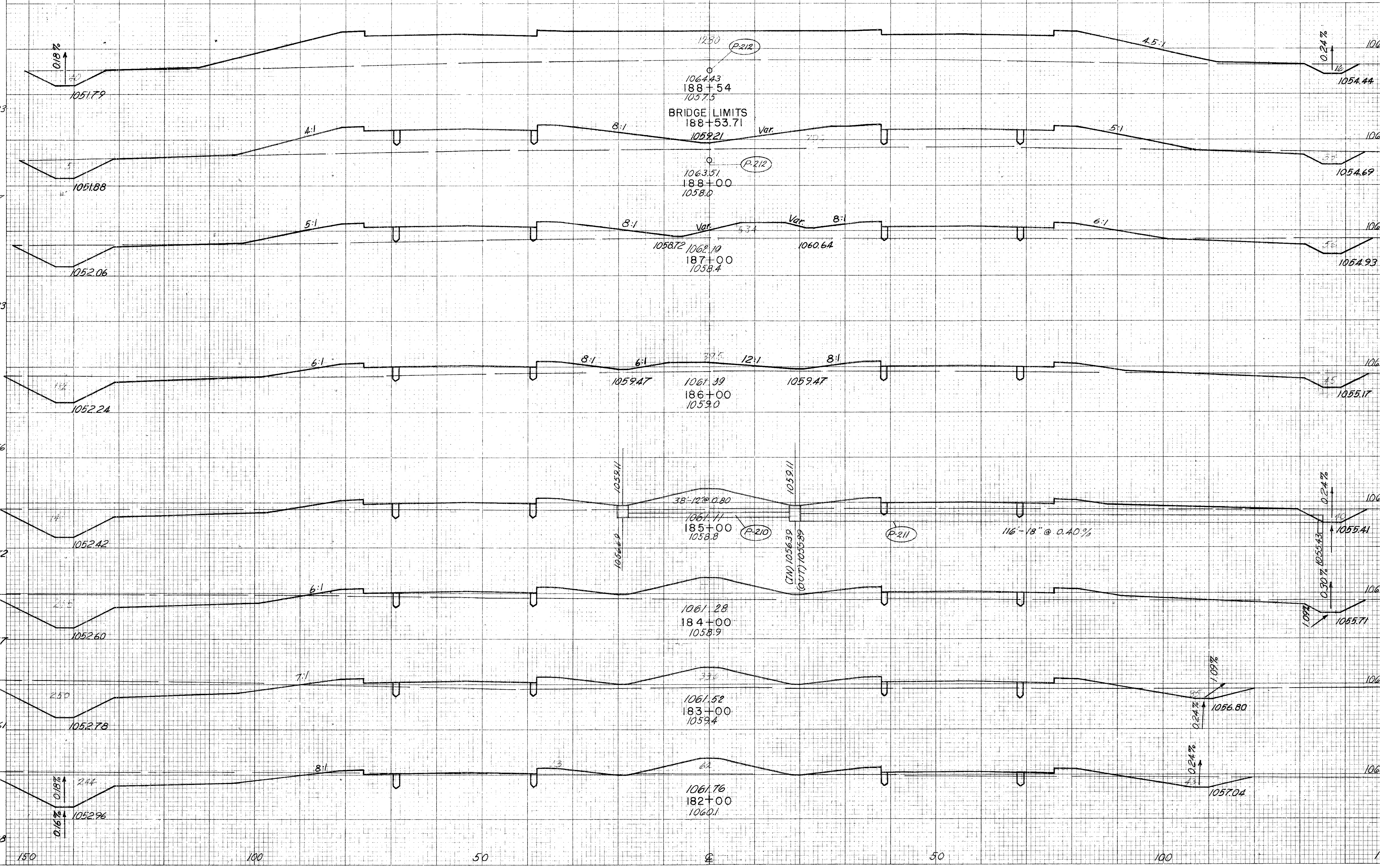
174 TO 181

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00

Station	Seeding End Width	Seeding Sq. Yds.	End Area Cut	End Area Fill	Volume Cut	Volume Fill
188+54	222		56	1280		
		2483			270	3850
188+00	225		90	799		
		2517			400	2468
187+00	228		126	534		
		2533			524	1720
186+00	228		157	395		
		2556			676	1352
185+00	232		181	335		
		2572			800	1276
184+00	231		251	354		
		2467			993	1278
183+00	213		285	336		
		2361			1063	918
182+00	212		289	160		
		2528			930	557



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182 TO 188+54

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

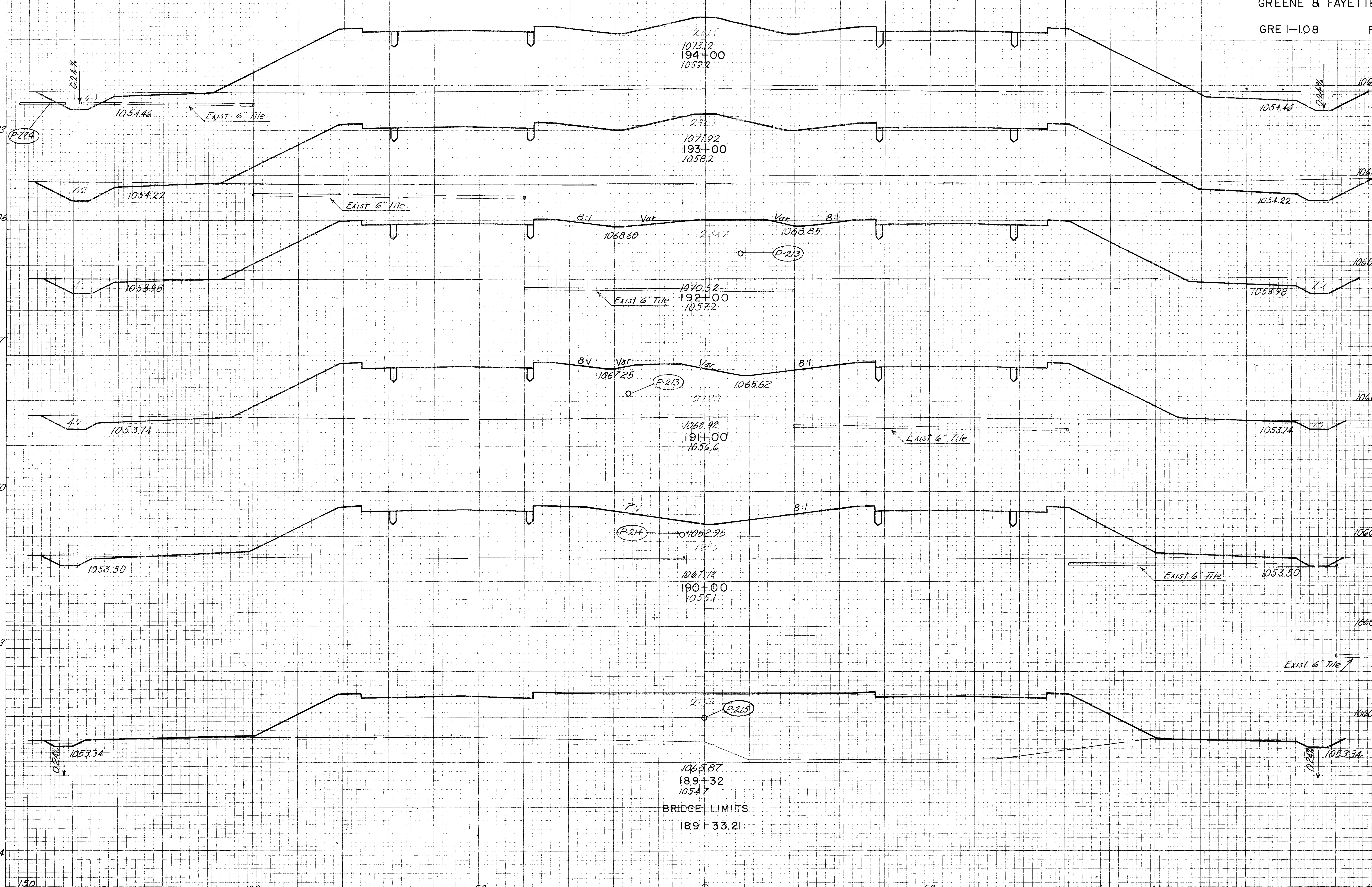
89/162

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00

Station	End Area Cut	End Area Fill	Volume Cut	Volume Fill
194+00	142	2615		
			578	9411
193+00	170	2467		
			519	8915
192+00	110	2347		
			331	8402
191+00	69	2190		
			206	7731
190+00	42	1985		
			152	7672
189+32	40	2158		

Seeding End Width	Seeding Sq. Yds.
228	
	2533
228	
	2506
223	
	2467
221	
	2450
220	
	2433
218	
	2444



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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

90
162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
235	2639	56	2657	226	10415
240	315	66	2967	213	11383
232	2721	49	3180	91	6370
230	2159	0	260	287	12,029
244	2689	51	3445	415	11,352
240	2722	104	3051	422	11,414
250	2700	120	3079	411	11,137
236	2578	108	3085	474	10,266
		114	2929		

8:1 Var. 6:1 8:1
1073.91 1073.53
1075.33
202+00
1060.4
0.24%
1057.14
1060
1057.20
0.28%
Var. 8:1
1071.96
1075.76
201+00
1059.5
1056.90
1060
1056.92
1071.53
105'-12" @ 0.50%
Median Inlet @ STA. 200+25
P-223
1060
1056.80
0.28%
1056.60
0.24%
1056.66
Exist 6" Tile
1076.03
199+88
1059.4
STA. 199+53
STA. 199+17
BRIDGE LIMITS
199+85.01
BRIDGE LIMITS
198+87.51
1060
1055.62
0.24%
1055.66
Exist 6" Tile
1076.03
198+82
1058.7
8:1 7:1
1071.82
1075.86
198+00
1059.0
105'-12" @ 0.50%
Median Inlet @ Sta 198+50
P-222
1060
1055.42
Exist 6" T.I.P.
1055.40
8:1 6:1 8:1 8:1
1073.02 1073.57
1075.49
197+00
1058.7
1060
1055.18
1055.18
8:1 6:1 12:1 8:1
1073.73 1072.98
1074.90
196+00
1058.5
1060
1054.94
1054.94
1073.20
0.24%
1060
1054.70
0.24%
1054.70
1074.12
195+00
1058.5
150 100 50 0 50 100 150

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195 TO 202

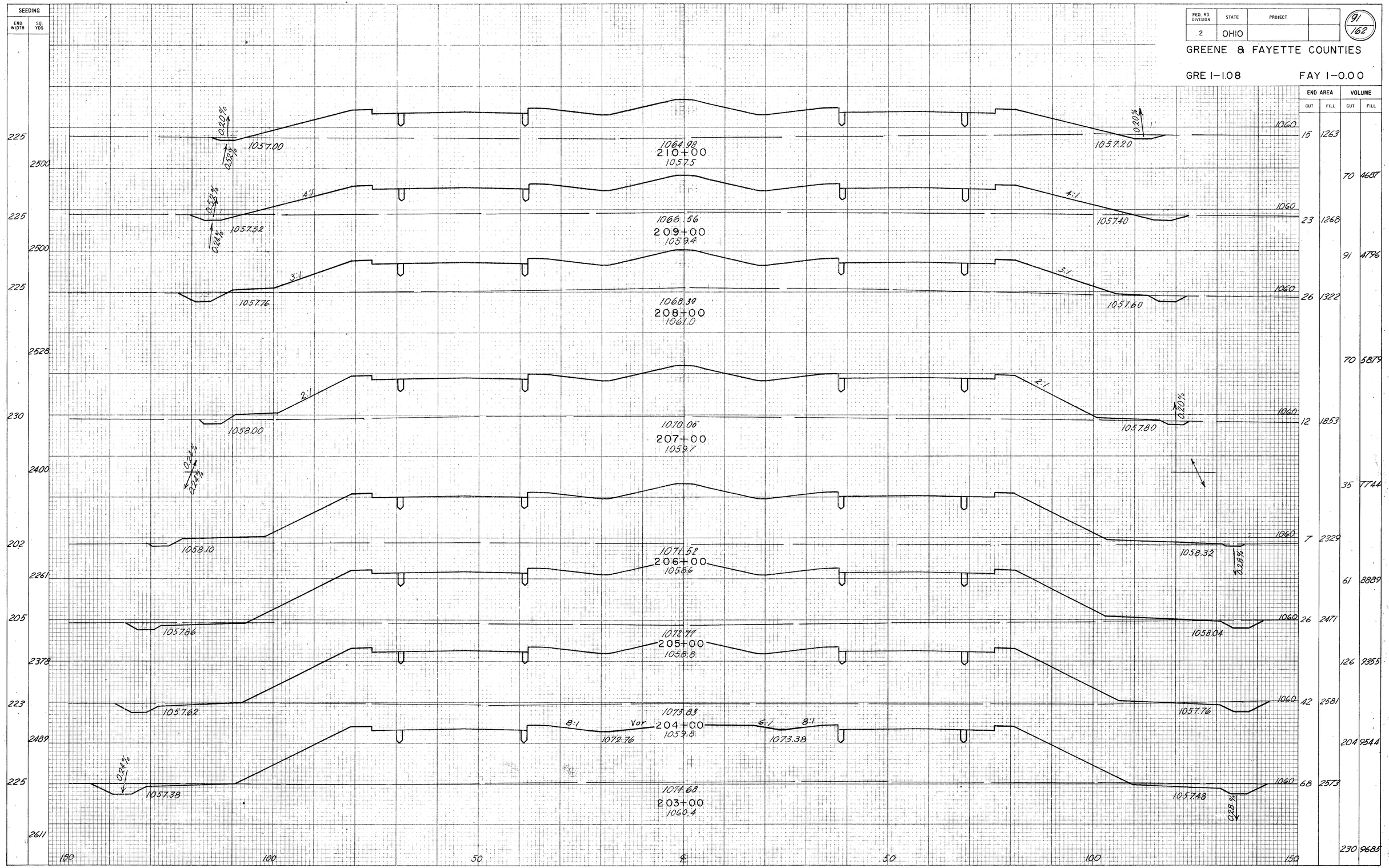
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

91/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
225	2500	15	1263	70	4687
225	2500	23	1268	91	4796
225	2528	26	1322	70	5879
230	2400	12	1853	35	7744
202	2261	7	2329	61	8889
205	2378	26	2471	126	9355
223	2489	42	2581	204	9544
225	2611	68	2573	230	9685



FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

92/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
232	257	1060	19	918		
		1064.56			76	2894
		218+00				
		1058.9				
232	253	1060	22	645		
		1064.32			85	1845
		217+00				
		1060.2				
225	249	1060	24	356		
		1064.08			65	2187
		216+00				
		1061.5				
224	249	1060	11	825		
		1063.84			41	3396
		215+00				
		1058.4				
225	251	1060	11	1009		
		1065.60			24	3796
		214+00				
		1057.5				
227	250	1060	2	1041		
		1063.36			4	3757
		213+00				
		1057.3				
224	249	1060	0	988		
		1063.38			15	3955
		212+00				
		1057.4				
225	250	1060	8	1148		
		1063.92			43	4465
		211+00				
		1057.2				
160	150	100	50	4	50	100 140

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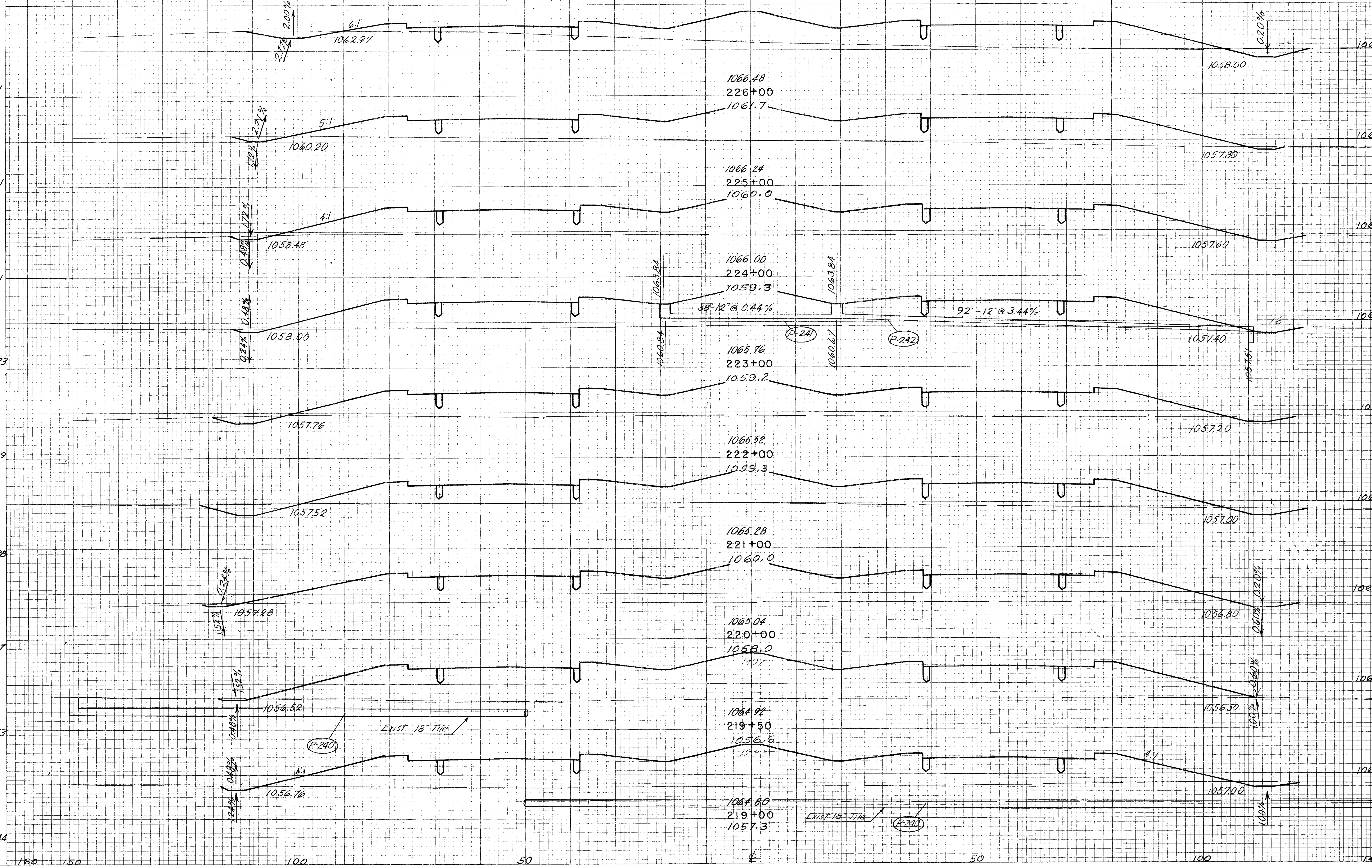
211 TO 218

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		93/162

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00



6:1
2.00%
2.71%
1062.97
0.20%
1058.00
1060
1066.48
226+00
1061.7
5:1
2.27%
1.72%
1060.20
1057.80
1066.24
225+00
1060.0
4:1
1.72%
0.48%
1058.48
1057.60
1066.00
224+00
1059.3
1063.84
1060.84
1060.67
38'-12" @ 0.44%
92'-12" @ 3.44%
P-241
P-242
0.48%
0.24%
1058.00
1057.40
1057.51
1065.76
223+00
1059.2
1057.76
1057.20
1065.52
222+00
1059.3
1057.52
1057.00
1065.28
221+00
1060.0
0.24%
1.52%
1057.28
0.20%
0.60%
1056.80
1065.04
220+00
1058.0
1.52%
0.48%
1056.52
Exist. 18" Tile
P-240
0.60%
1.00%
1056.50
1064.92
219+50
1056.6
4:1
0.48%
1.24%
1056.76
1057.00
1.00%
1064.80
219+00
1057.3
Exist. 18" Tile
P-240
160
150
100
50
℄
50
100
140

SEEDING	
END WIDTH	SQ. YDS.
226	
	2511
226	
	2511
226	
	2511
226	
	2533
230	
	2539
227	
	2528
228	
	2517
225	
	1253
226	
	2544

END AREA		VOLUME	
CUT	FILL	CUT	FILL
49	488		
		117	2763
14	1004		
		67	3963
22	1136		
		81	4211
22	1138		
		104	4092
34	1072		
		167	3659
56	904		
		131	3974
15	1242		
		31	5072
2	1497		
		39	5148
19	1283		
		70	4076

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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

94/162

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1.–0.00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
230		18	1475		
	2556			56	5662
230		12	1561		
	2561			63	5818
231		22	1581		
	2567			91	5561
231		27	1422		
	2567			161	4842
231		60	1193		
	2550			224	4261
228		61	1108		
	2533			156	4704
228		23	1092		
	2533			117	3859
228		40	992		
	2522			165	2741

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227 TO 234

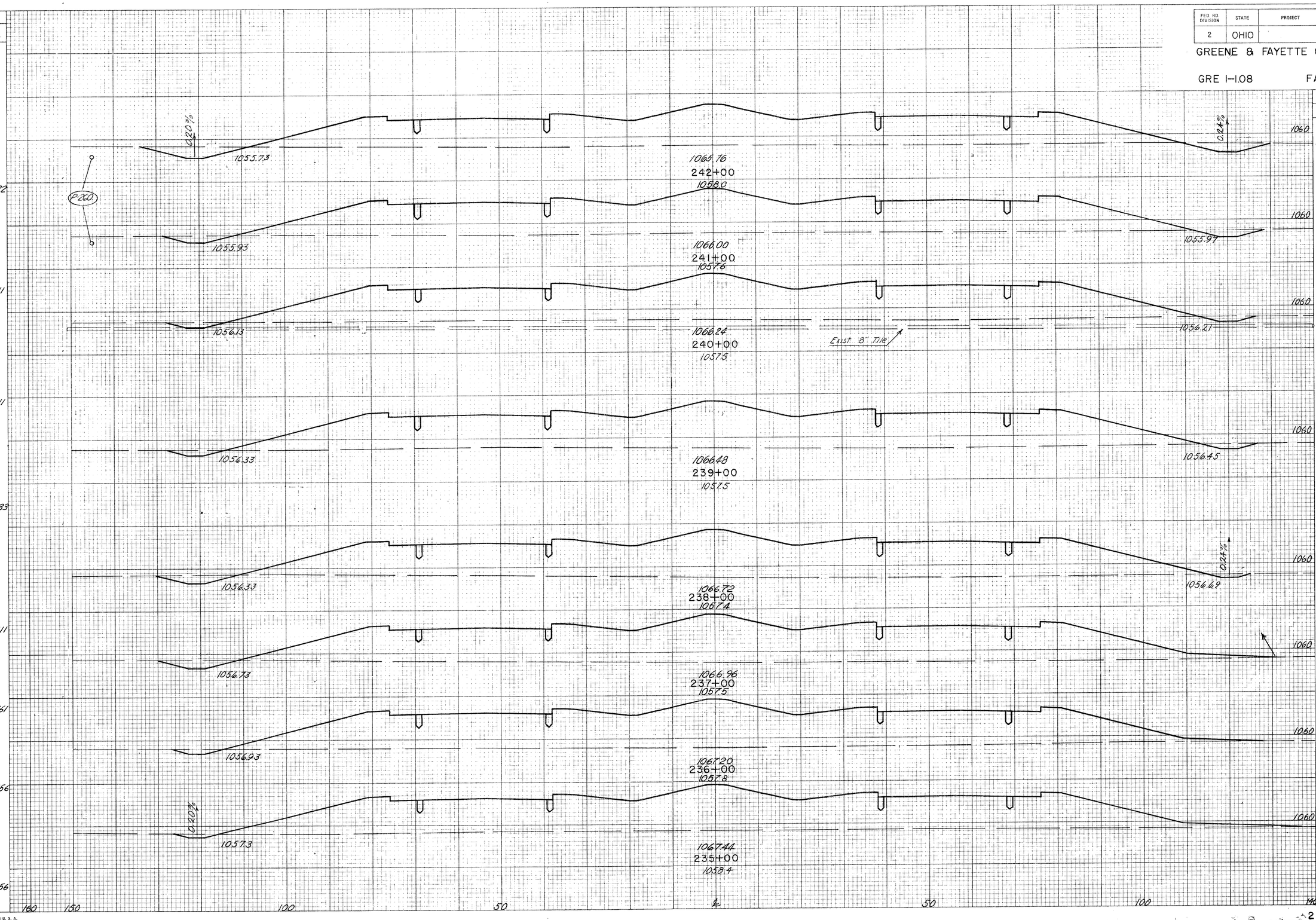
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

95/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
237		1060			
	2622	69	1340		
235				196	5439
	2611	1060			
235		37	1597		
	2611			111	58
235		1060			
	2611	23	1580		
235				91	5915
	2633	1060			
239		26	1614		
	2611			106	5985
231		1060			
	2561	31	1618		
230				96	6100
	2556	1060			
230		21	1676		
	2556			57	6231
		1060			
		10	1689		
				31	6254
		1060			
		7	1681		
				46	5844
		140			



235 TO 242

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

96/162

GREENE & FAYETTE COUNTIES

GRE 1—1.08 FAY 1—0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
233	2589	38	1433	172	5431
233	2589	55	1500	183	5437
233	2587	44	1436	169	5407
231	2567	47	1484	150	5465
231	2556	34	1467	185	5413
229	2556	36	1513	233	5068
231	2583	64	1410	243	4939
234	2611	62	1327		

1060 1060 1060 1060 1060 1060 1060

0.20% 0.24%

1054.13 1053.81

Exist 10" Tile

1063.84
250+00
1055.7

P-263

1054.33 1054.05

Exist 10" Tile

1064.08
249+00
1056.6

1054.33 1054.29

1064.32
248+00
1055.8

1054.73 1054.53

1064.56
247+00
1055.9

1054.98 1054.77

1064.80
246+00
1056.6

1055.13 1055.01

1065.04
245+00
1056.6

P-261 P-262

1063.36 1063.36

38'-12"@0.48% 98'-12"@4.48%

1055.33 1055.25

1052.88 1052.88

1065.28
244+00
1057.1

P-260

0.20% 0.44%

1055.53 1055.49

1065.52
243+00
1057.6

150 100 50 ℄ 50 100 150

243 TO 250

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

97/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING			END AREA		VOLUME	
END WIDTH	SQ. YDS.		CUT	FILL	CUT	FILL
220	2456	1060	35	1421	119	5424
222	2461	1060	29	1508	107	5505
221	2444	1060	29	1465	89	5524
219	2439	1060	19	1518	87	5629
220	2444	1060	28	1522	93	5709
220	2456	1060	22	1561	102	5783
222	2456	1060	33	1551	124	5578
220	2517	1060	34	1461	133	5544
	150	150				

0.20%
P-277
1052.53
1061.92
258+00
1053.7
Exist 10" Tile
1051.89
0.34%
0.24%

1052.73
1062.16
257+00
1053.7
Exist 10" Tile
1052.13

1052.93
1062.40
256+00
1054.0
Exist 10" Tile
1052.37

0.20%
1053.13
Exist 10" Tile
1062.64
255+00
1054.0
1052.61

1060.96
P-271
1060.96
P-272
38-12" @ 0.44%
98-12" @ 4.48%
1053.33
Exist 4" Tile
Exist 10" Tile
1057.46
1057.29
1062.88
254+00
1054.3
1052.85
1052.90

1053.53
Exist 10" Tile
1063.12
253+00
1054.5
1053.09

1053.73
Exist 10" Tile
1063.36
252+00
1054.6
1053.33

P-277
0.20%
1053.93
1063.60
251+00
1055.3
1053.57
0.24%
P-268
Exist 10" Tile

100 50 50 100

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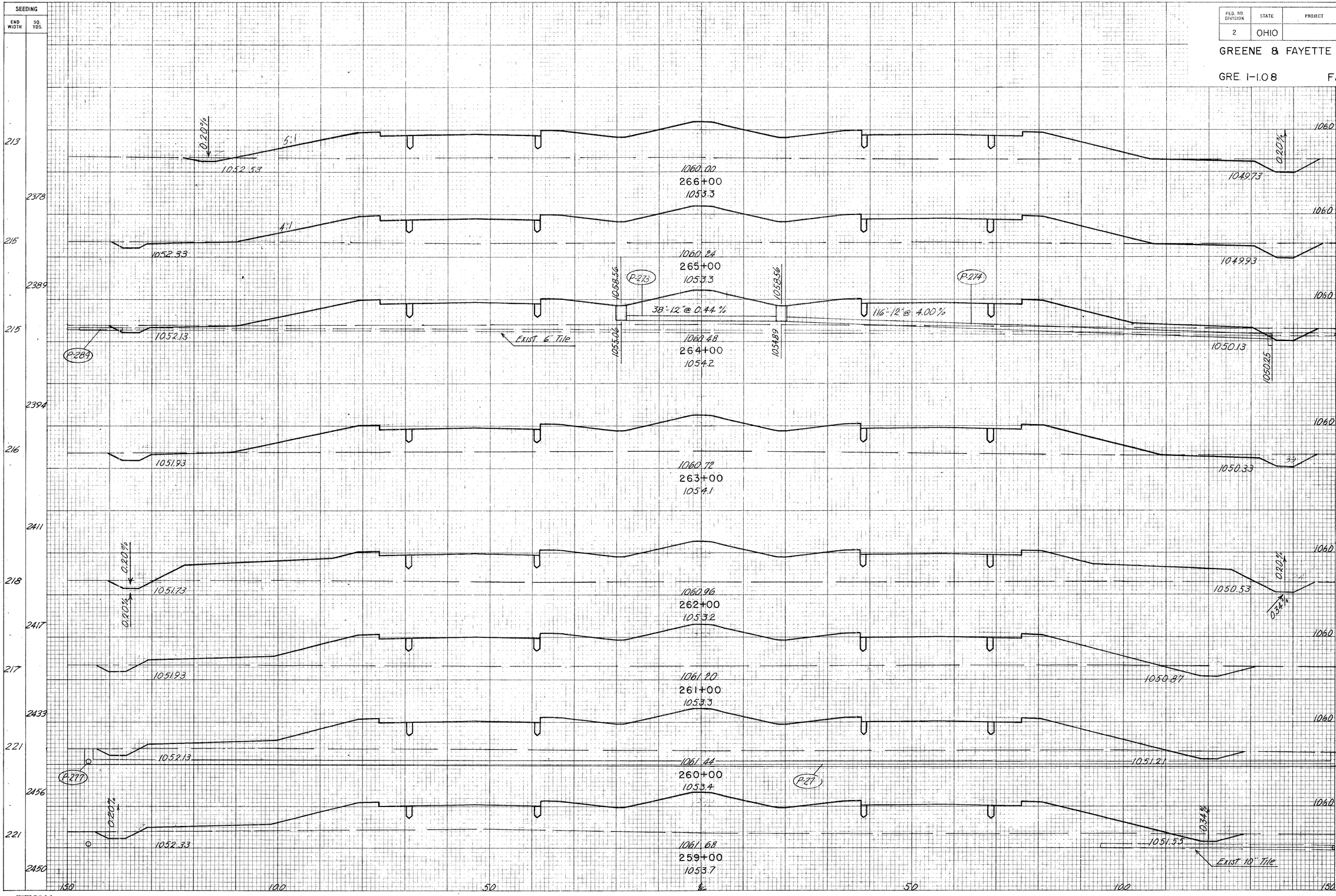
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

98
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY I-0.00

SEEDING			END AREA		VOLUME	
	END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
213			1060			
		2378	45	1166	183	4285
215			1060			
		2389	54	1148	172	4159
215			1060			
		2394	39	1098	174	4242
216			1060			
		2411	55	1193	170	5094
218			1060			
		2417	37	1558	152	5450
217			1060			
		2433	45	1385	157	5161
221			1060			
		2456	40	1402	139	5091
221			1060			
		2450	35	1347	130	5126



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259 TO 266

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

99
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
200	2206	20	407	63	1168
197	2127	14	224	43	1117
194	2178	9	379	56	1791
198	2206	21	588	67	2691
199	2211	15	865	54	3346
199	2206	14	942	76	3435
198	2183	27	913	76	3665
195	2266	14	1066	109	4133

2.40%
1054.12
1056.16 P-281
1052.66
38'-12" @ 0.44%
1058.08
274+00
1055.2
1056.16 P-282
126'-12" @ 3.40%
1052.49

2.40%
1058.32
273+00
1056.3

1058.56
272+00
1055.7

0.20%
1053.53
1058.80
271+00
1054.9

1053.33
1059.04
270+00
1053.9

6:1
1053.13
1059.28
269+00
1053.7
5:1

1052.93
1059.52
268+00
1053.7

0.20%
6:1
1052.73
1059.76
267+00
1053.4
4:1

For Special Ditch Sections See Sheet 103

150 100 50 0 50 100 150

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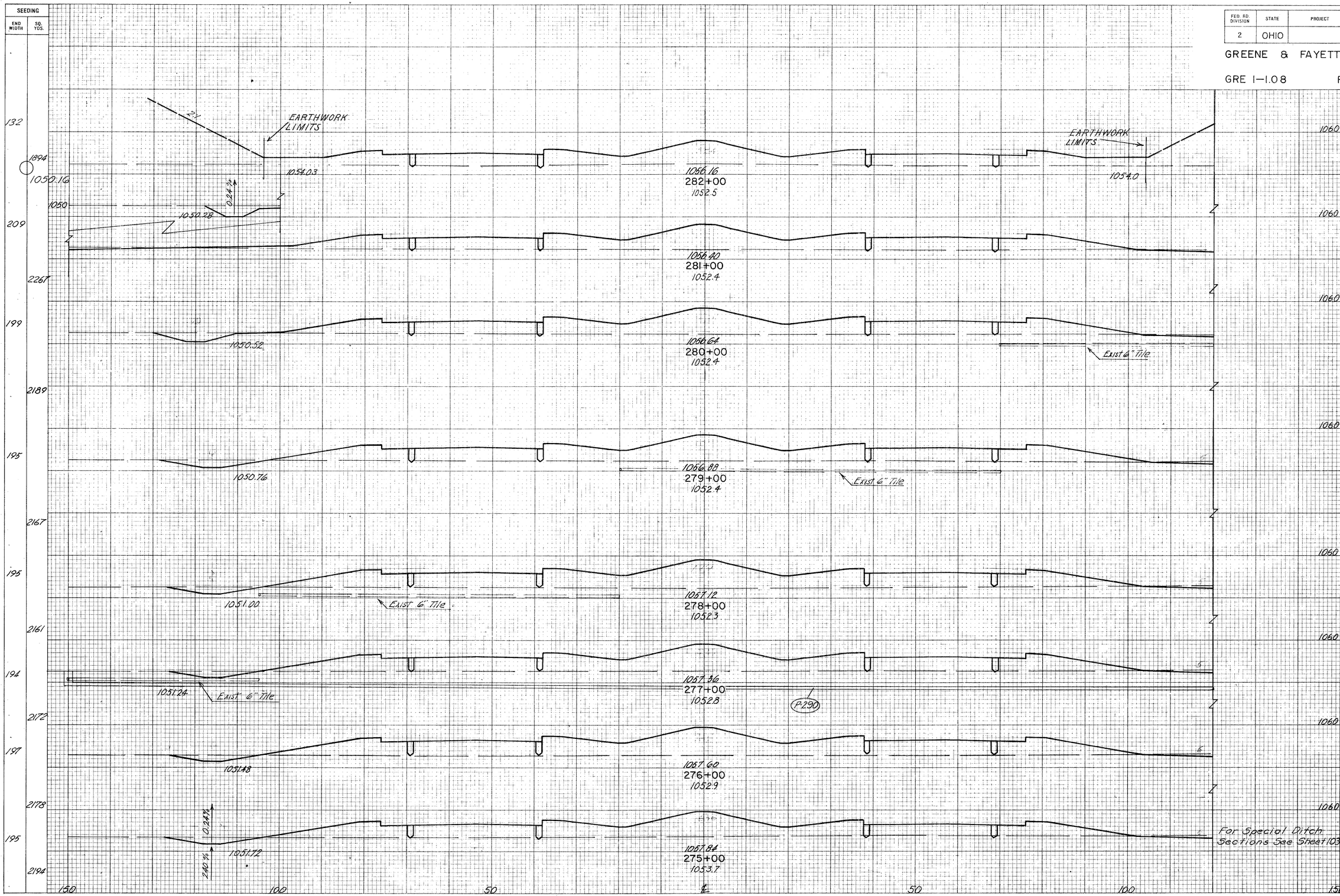
FED. RD DIVISION	STATE	PROJECT	
2	OHIO		

100/162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING END WIDTH	SEEDING SQ. YDS.		END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
132	1894	1050.16	0	584	70	2217
209	2267	1050.52	38	613	133	3293
199	2189	1050.76	34	625	120	2393
195	2167	1051.00	31	667	111	2585
195	2161	1051.24	29	729	115	2702
194	2172	1051.48	33	730	128	2768
197	2178	1051.72	36	765	115	2594
195	2194		26	696	85	1931



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275 TO 282

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

101
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0.00

SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	CUT	FILL	CUT	FILL
192	2150	45	844	152	3144
195	2167	37	854	161	2854
195	2167	50	687	183	2441
195	2133	49	631	154	2315
189	2106	34	619	122	2159
190	2139	32	547	122	1972
195	2278	34	518	74	2005
215	1928	32	565	11	2128

0.24%

1048.12

1050.64
290+00
1051.3

1048.36

1050.40
289+00
1051.3

1048.60

1050.16
288+00
1051.5

1048.84

1050.92
287+00
1051.8

1053.82 (P-293) 1053.82 (P-294)

38'-12" @ 0.44%

126'-12" @ 3.50%

1049.08

1050.32 1050.15

1050.14
286+00
1051.7

1049.32

1050.68
285+00
1051.7

1053.82 (P-291) 1053.82 (P-292)

38'-12" @ 0.44%

126'-12" @ 3.28%

1049.56

1050.32 1050.15

1050.14
284+00
1051.9

0.24%

1049.80

1050.90
283+00
1052.1

For Special Ditch Sections See Sheets 103 and 104

150 100 50 50 100 150

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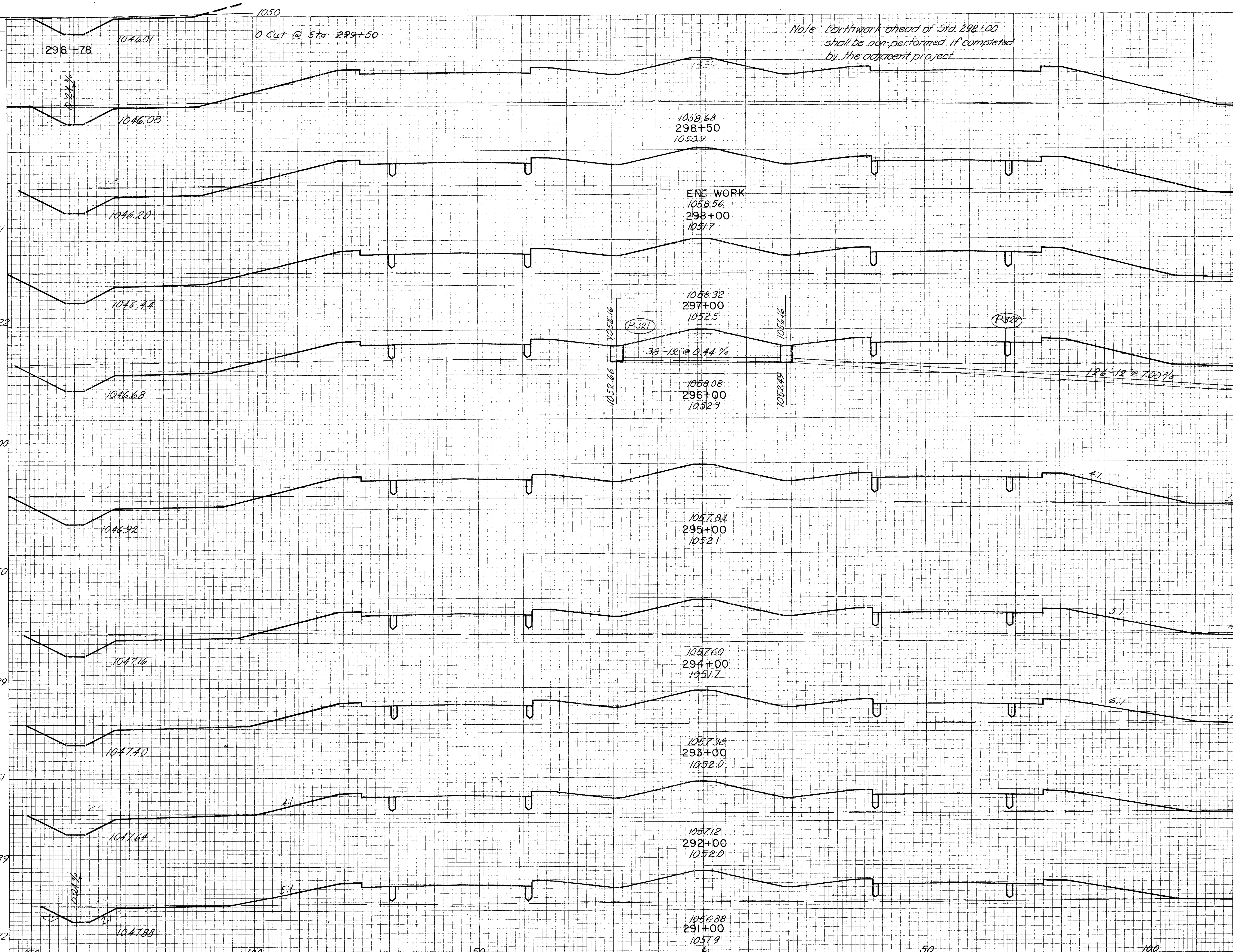
FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I- 0.00

Note: Earthwork ahead of Sta. 298+00 shall be non-performed if completed by the adjacent project



1050
298+78
1046.01
0 Cut @ Sta 299+50
0.24%
1046.08
1058.68
298+50
1050.9
1046.20
END WORK
1058.56
298+00
1051.7
1046.44
1058.32
297+00
1052.5
1056.16
P-321
1056.16
P-322
38"-12" @ 0.44%
126'-12" @ 1.00%
1046.68
1052.66
1058.08
296+00
1052.9
1052.49
4:1
1046.92
1057.84
295+00
1052.1
5:1
1047.16
1057.60
294+00
1051.7
6:1
1047.40
1057.36
293+00
1052.0
4:1
1047.64
1057.12
292+00
1052.0
5:1
0.24%
2:1
2:1
1047.88
1056.88
291+00
1051.9
1060
150
100
50
50
100
150
STA. 299+50
STA. 299+78
STA. 298+50
STA. 298+00
For Special Ditch Sections See Sheet 104

SEEDING END WIDTH	SQ. YDS.
198	2211
200	2222
200	2200
196	2150
191	2139
194	2161
195	2139
190	2122

END AREA CUT	END AREA FILL
0	0
53	0
73	1439
136	1160
178	
166	947
180	974
109	988
87	905
73	825
50	825

VOLUME CUT	VOLUME FILL
71	0
65	2665
387	4829
581	3941
637	3530
641	3557
535	3633
365	3505
206	3239
228	3161
176	3141

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

103/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY I-0.00

SEEDING		END AREA		VOLUME		SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	C.	F.	C.	F.	W.	SY.	CUT	FILL	CUT	FILL
84	933	1050	109	441		44	511	1050	111	441	
84	939	1050	129	530		48	522	1050	127	417	
85	944	1050	157	615		46	594	1050	98	417	
85	939	1050	175	572		61		1050	127		
84	939	1050	134	450				1050			
85	911	1050	109	354		44	717	1050	91	339	
79	883	1050	82	283		85	939	1050	92	337	
80	911	1050	71	272		84	939	1050	90	350	
84	933	1050	76	248		85	961	1050	99	357	
84		1050	58			88	966	1050	94	376	

276+00 — 1047.73 — 0.20ft

275+00 — 1047.93

274+00 — P282 — 1048.21 — 1048.13

273+00 — 1048.33

272+00 — 1048.53

271+00 — 1048.73

270+00 — 1048.93

269+00 — 1049.13

268+00 — 1049.33

267+00 — 0.20ft — 1049.53

286+00 — P294 — 1045.74 — 0.20ft — 1045.61

285+00 — 1045.81

284+00 — 1046.03 — 1046.01

283+00 — 0.25ft — 0.25ft — 1046.21

282+00 — 1046.63

281+00 — 0.20ft — 0.20ft — 1046.73

280+00 — Exist 6" Tile — 1046.93

279+00 — 1047.13

278+00 — 1047.33

277+00 — 0.20ft — 1047.33 — P290

110 R 150 R 200 R 150 R 200 R

SPECIAL DITCH SECTIONS 267 TO 286


FED. RD. DIVISION 2
STATE OHIO
PROJECT
104
162
GREENE & FAYETTE COUNTY
GRE I-1.08
FAY I-0.00
SEEDING
END WIDTH
SQ. YDS.
50 556
50 556
50 556
50 556
50 556
50 550
49 539
48 528
47 517
46 500
P322
1043.67
0.20%
296+00 1043.61
295+00 1043.81
294+00 1044.01
293+00 1044.21
292+00 1044.41
291+00 1044.61
290+00 1044.81
289+00 1045.01
288+00 1045.21
287+00 1045.41
150R
200R
1050 168 557 30 389
1050 133 528 40 361
1050 152 591 25 306
1050 167 626 30 200
1050 171 635 30 74
1050 172 600 40 99
1050 152 515 45 528
1050 126 437 45 522
1050 110 411 49 550
1050 112 413 50 556
Not Part Of This Project
END WORK 303+25
303+00 1041.99
0.18%
302+00 1042.17
15" County Tile
301+00 1042.35
300+40 1042.46
0.18%
300+21 1042.77
0.20%
300+00 1042.81
299+00 1043.01
298+00 1043.21
297+00 1043.41
0.20%
Note: Earthwork ahead of Sta 298+00 shall be non-performed if completed by the adjacent 1050 project
END AREA
CUT FILL
VOLUME
CUT FILL
0 0
1050 137 309
1050 30 215
1050 86 192
1050 87 65
1050 98 79
1050 106 411
1050 116 433
1050 118 513
1050 159 606
SPECIAL DITCH SECTIONS 287 TO 303
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FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

105
162

GREENE & FAYETTE COUNTIES

GRE 1–1.08 FAY 1–0.00

SEEDING		END AREA		VOLUME		SEEDING		END AREA		VOLUME	
END WIDTH	SQ. YDS.	C.	F.	C.	F.	W.	S.Y.	CUT	FILL	CUT	FILL
60		1060 138	260								
	336			209	449						
61		1060 88	225								
	272			244	235						
37		1060 175	29								
	164			255	27						
22		1060 100	0							0	0
	119			167	1	0				33	46
21		1060 80	1			36				36	50
	39			48	1	267				141	244
14		1060 50	1			60				116	214
23				28	1						
0		0	0			333				235	439

EARTHWORK LIMITS

1050.70
10+00
1055.1

EARTHWORK LIMITS

1050.65
9+50
1054.0

1050.60
9+00
1053.9

1050.55
8+50
1053.2

1050.50
8+00
1051.9

1050.48
7+80
1051.1

WEST BRANCH CREEK

7–50
BEGIN WORK

11–16
END WORK

1050.80
11+00
1050.7

EARTHWORK LIMITS

EARTHWORK LIMITS

1050.75
10+50
1055.6

50 0 50 50 0 50

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CHANNEL CROSS–SECTIONS

FED RD DIVISION	STATE	PROJECT	
2	OHIO		

106
162

GREENE & FAYETTE COUNTIES

GRE 1-1.08 FAY 1-0,00

SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL	SEEDING END WIDTH	SEEDING SQ. YDS.	END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
		1060									
			208		34						
		1050									
				385	31						
		1060									
			208		Back 132 Forward 0						
		1050									
				384	236						
		1060				0					
							153				
		1050	207	123							
						55					
				339	199						
		1060					314				
			159	92							
		1050				58					
				290	133						
		1060					325				
			100	62							
		1050									
				134	61	59					
		1060									
			45	14							
		1050					328				
				11	3						
		1060	0	0		59					
		1050					317				

11+50
END WORK

1060
46 53 61
1050.85
11+00
1051.2

1060
63 6 85
1050.70
10+50
1051.0

1060
38 133 144
1050.55
10+00
1053.9

1060
EARTHWORK LIMITS
34 188 168
EARTHWORK LIMITS
1050.40
9+50
1056.0

EARTHWORK LIMITS
94
EARTHWORK LIMITS
207
1050.25
9+00
1055.0

208
1050.10
8+50
1055.9

207
1049.95
8+00
1055.5

159 2
1049.80
7+50
1054.6

100 52
1049.65
7+00
1052.7

45 14
1049.50
6+50
1049.5

6+37
BEGIN WORK

GRASSY BRANCH CREEK

END AREA CUT	END AREA FILL	VOLUME CUT	VOLUME FILL
0	0		
		49	99
53	107		
		60	237
12	149		
		134	306
		133	182
		297	356
188	202		
		367	219

0 50 100

0 50

CHANNEL CROSS SECTIONS

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

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

APPROACH SLAB

REINFORCING STEEL LIST					QUANTITY
MARK	NO	LENGTH		SH'P.	CONC. SQ.YDS.
A-801	(1)	25'-7"		B	(6)
A-802	6	11'-0"		S	
B-501	9	(2)		S	
B-502	11	(3)		S	
B-503	1	(2)		S	
B-504	2	(5)		S	

Quantites shown above are for one approach slab only.

A-801 24'-6"

(1) $= 12\left[\frac{"A"-3.5}{6}\right]+9$

(2) $= ("B"-0.5)(Sec.\ \theta)$

(3) $= ("A"-0.5)(Sec.\ \theta)$

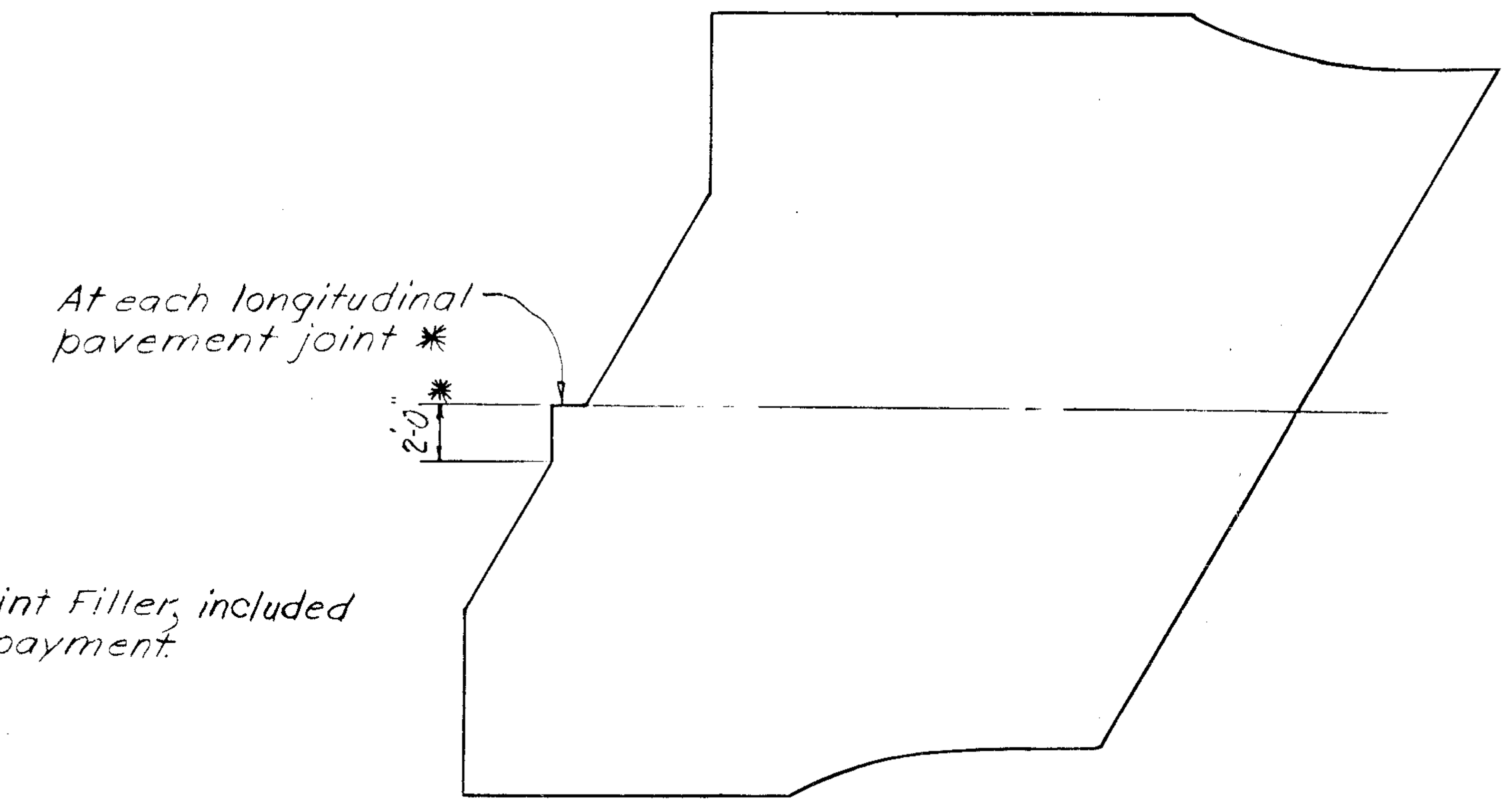
(4) $("C"-2.0)$

(5) $\left[\frac{"B"-"C"}{2}\right]+2.0$

(6) $25("B")-3$

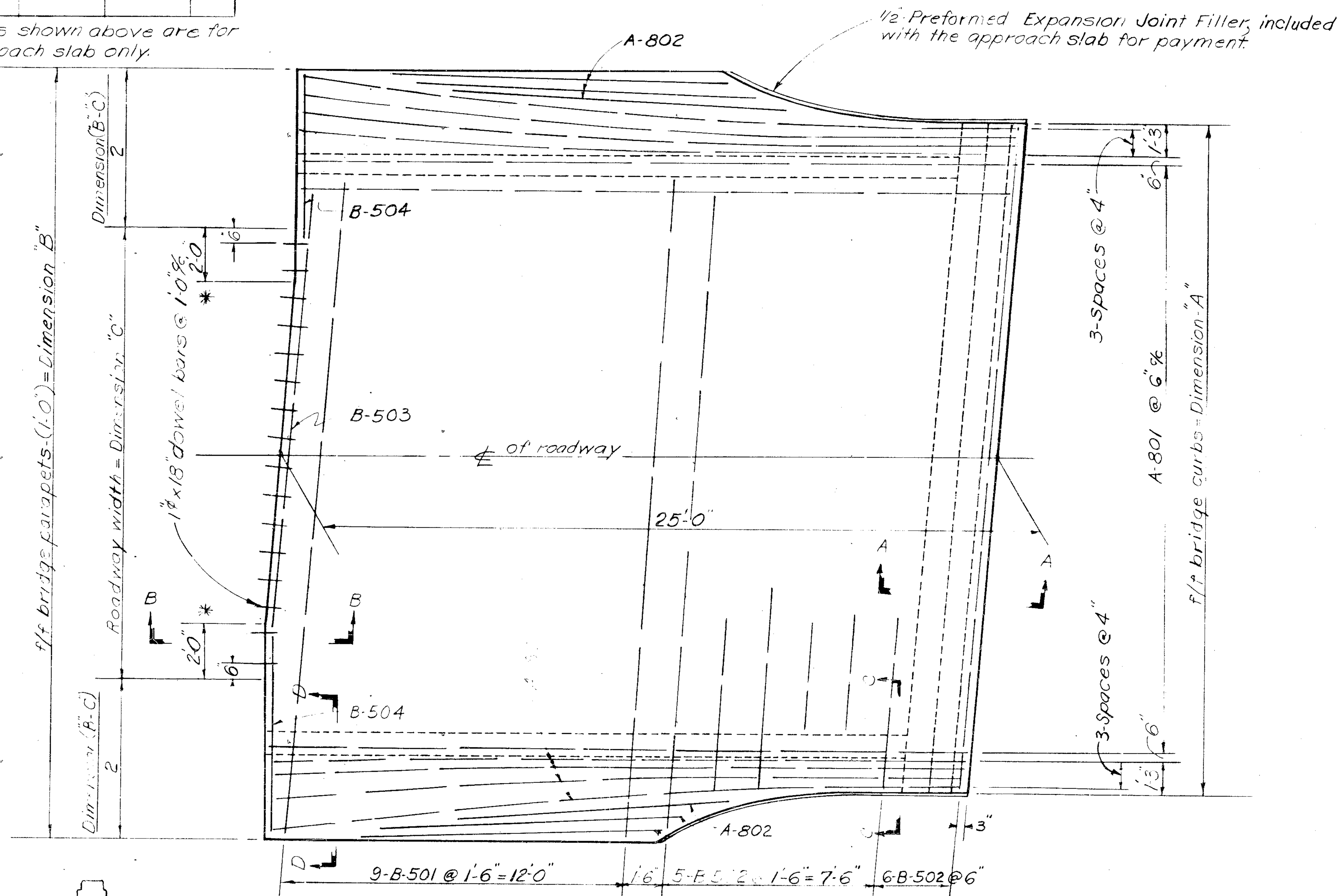
Dimensions "A", "B" & "C" to be in feet

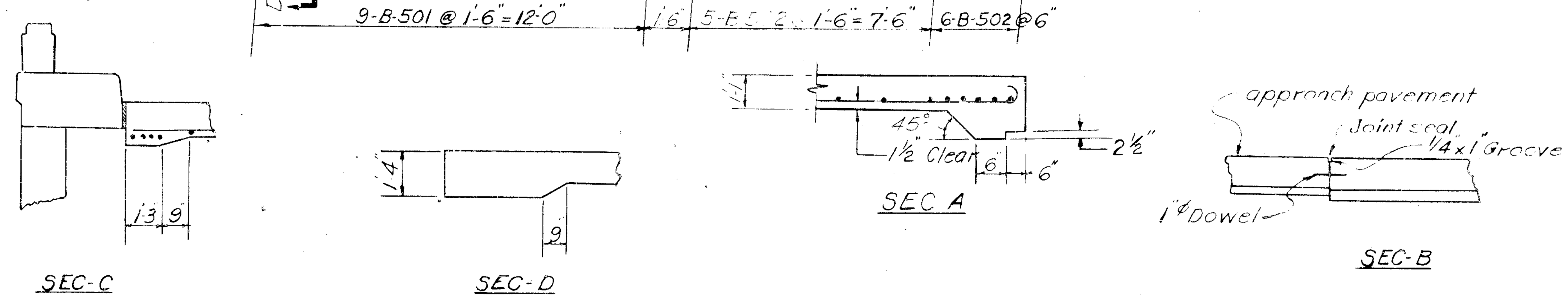
θ = Angle of skew



APPROACH SLAB FOR BRIDGE WITH LARGE SKEW

* 2'-0" for skews larger than 15°
0'-0" for skews 15° or less





For additional details see AS-1-54

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SPECIAL REINFORCED CONCRETE APPROACH SLAB

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WCR	F. J.		PMS	HVR 8-16-62	-14-63

Power line N. Side
Telephone line S. Side

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

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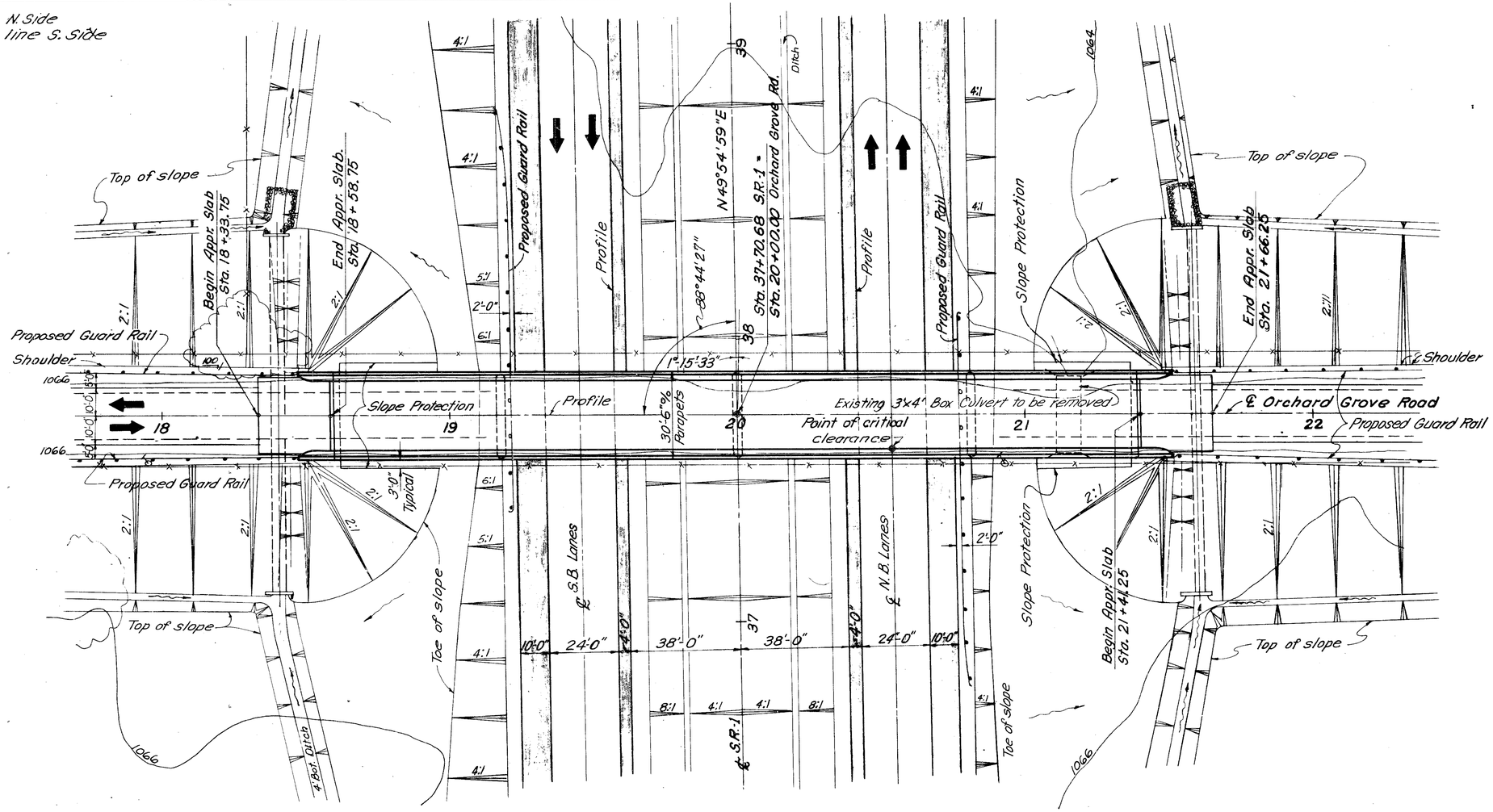
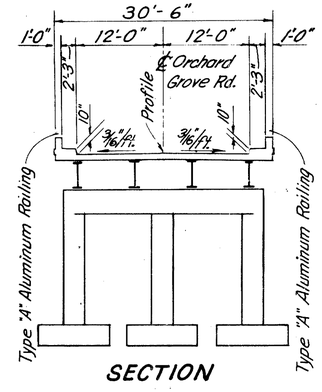
162

GREENE & FAYETTE COUNTIES

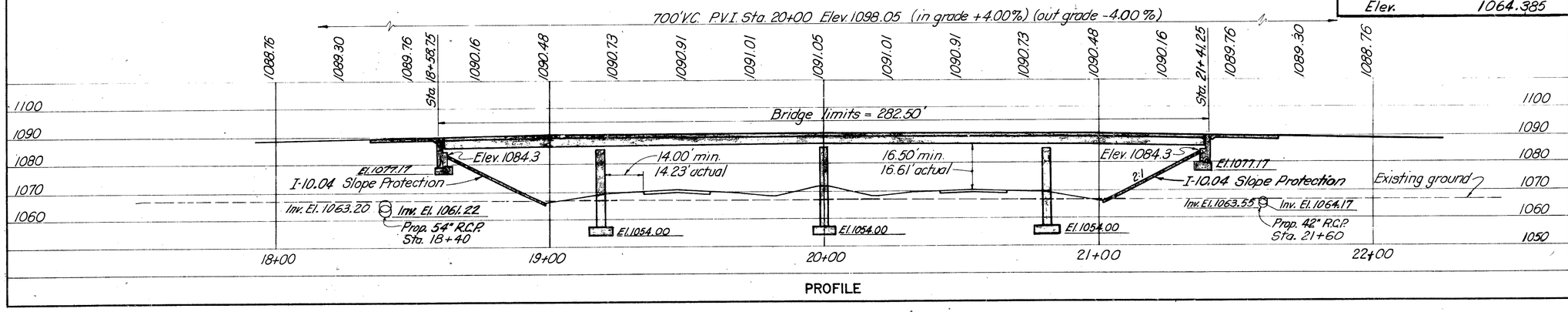
GRE. 1-1.08 **FAY. 1-0.00**



PLAN



SECTION



PROFILE

SRBM #5 Fence Post in Fence Line; Sta. 41+88, 367' Rt. Elev. 1064.385

PROPOSED STRUCTURE
TYPE 4 Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.25-81.75-81.75-57.25 ℄ Bearings
LOAD FREQUENCY RATING C.F. = 130 (57)
ROADWAY 24' ℄/℄ of 2'-3" Safety curbs
SKEW 1°-15'-33" R.F.
WEARING SUFACE 3/4" Monolithic
APPROACH SLABS Special (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN

BR. NO. GRE.-1-0148
SRI UNDER ORCHARD GROVE ROAD

SCALE 1" = 20'
GREENE COUNTY STA. 37+70.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WCR	GEW		WCR	10-20-61	

ESTIMATED QUANTITIES

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L
E-2	Lump	sum	Cofferdam Cribs and Sheeting				Lump
E-2	660	Cu.yd.	Unclassified excavation		200	460	
S-1	260	Cu.yd.	Class "C" concrete, superstructure	260			
S-1	88	Cu.yd.	Class "C" concrete, piers above footings			88	
S-1	93	Cu.yd.	Class "E" concrete, abutment walls		93		
S-1	115	Cu.yd.	Class "E" concrete, footings		38	77	
S-4	95,488	Lb.	Reinforcing steel	67,641	4,579	23,268	
S-7	235,000	Lb.	Structural steel	235,000			
S-8	235,000	Lb.	Field painting of structural steel	235,000			
S-14	609	Lin.ft.	Railing (aluminum rail and supports and concrete parapet)	558	51		
Special	260	each	Water reducing-set retarding admixture *	260			
S-29	24	Cu.yd.	Porous backfill				24
S-29	8	each	Scuppers	8			
I-10	339	Sq.yd.	Crushed aggregate slope protection				339

* See proposal

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

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GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

DESIGN SPECIFICATIONS: This structure conforms to the requirements of Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings
RB-1-55 rev. 2-2-59
AR-1-57 rev. 4-2-62
CSB-2-56 rev. 2-2-59 sheet 2, and 3

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will interfere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations.

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

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digits are used, and the first two where four are used, indicate the bar size number.

DECK PLACING PROCEDURE: In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously-placed deck concrete, the sequence of pours shall be upgrade, starting at the lowest end (or ends) on the inclined grade or on the vertical curve.

POROUS BACKFILL: 2 ft. thick, full length of abutment and wings, shall extend up to the underside of the approach slab.

WELDING of structural steel shall be class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welds are shown thus B

BEAM WEB WELDS: Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.

APPROACH SLAB DETAILS: See page 107.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after a waiting period of 3 months, the excavation shall be made for the abutments.

EXCAVATION QUANTITY includes the removal of fill material between the top of the earth slope and the bottom of the abutment crossbeam.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than 1/8" are to be spliced by butt welding, the depth of the smaller-depth beam shall be increased by splitting the web longitudinally at a distance of 1 1/2" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than 3/8" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

SURFACE FINISH OF CONCRETE: The requirements of Sec. S-1.22, Rubbed Finish, shall apply to the following exposed concrete surfaces:
a. The entire superstructure except the top and bottom surfaces of sidewalks and roadways.
b. The entire surface of piers and abutments except bridge seats, backwalls and the face of spill-through abutments between outside beams.

MACHINE FINISH The concrete bridge deck shall be finished by the use of a finishing machine

SHEET LEAD shall conform to the requirements of ASTM Designation B 29 without restriction to the Common Desilverized type.

LEGEND: n.f. = near face
f.f. = far face
e.f. = each face

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL NOTES AND ESTIMATED QUANTITIES

BR. NO. GRE.-1-0148

SR1 UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L.M.K.	R.A.F.		W.G.R.	A.V.A. 7-19-62	

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

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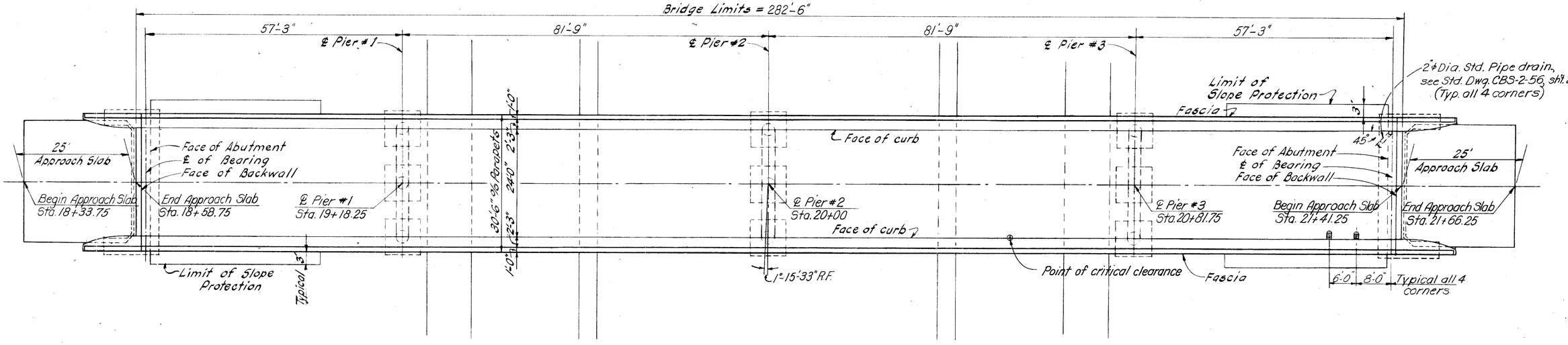
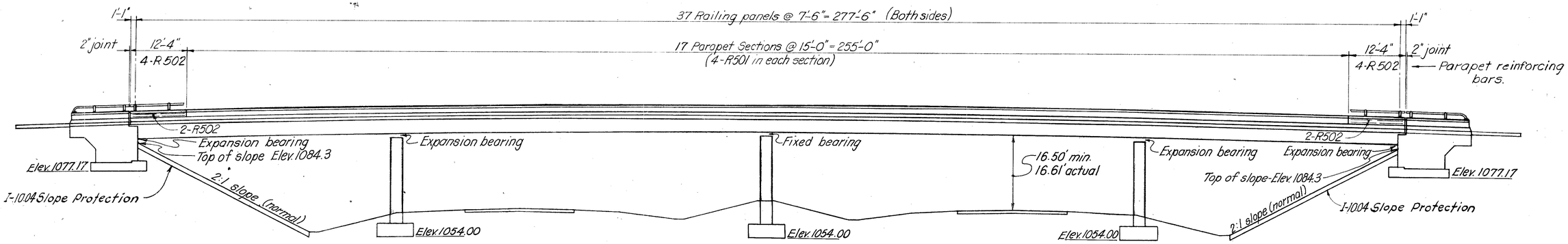
GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00



GENERAL PLAN



GENERAL ELEVATION

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN AND ELEVATION

BR. NO. GRE.-1-0148

SRI UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMH	GEW		WEK	7-19-62	

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

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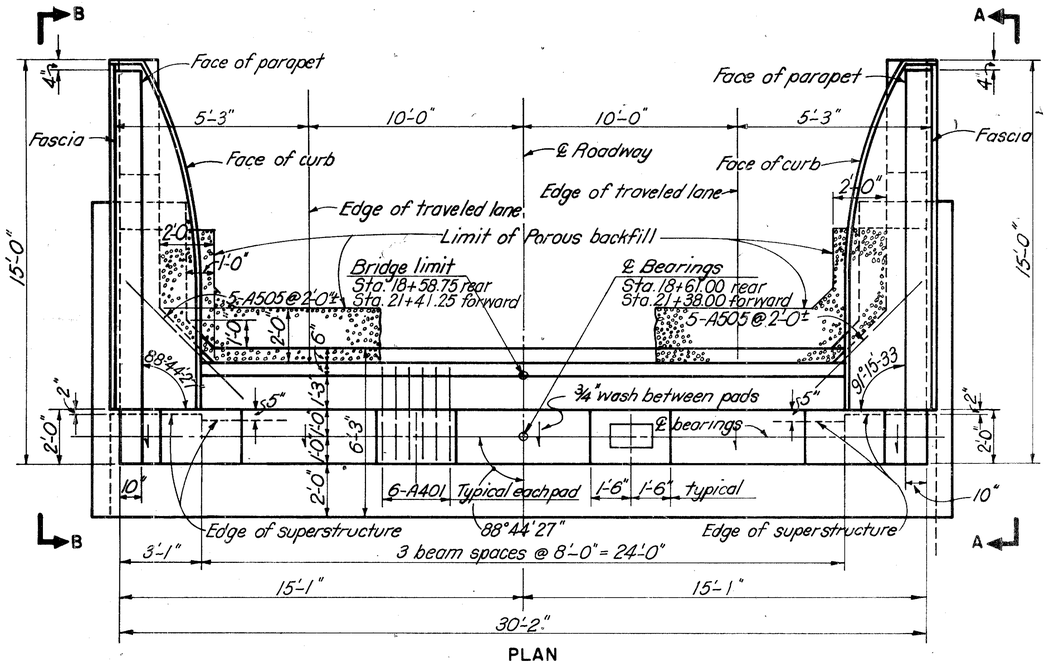
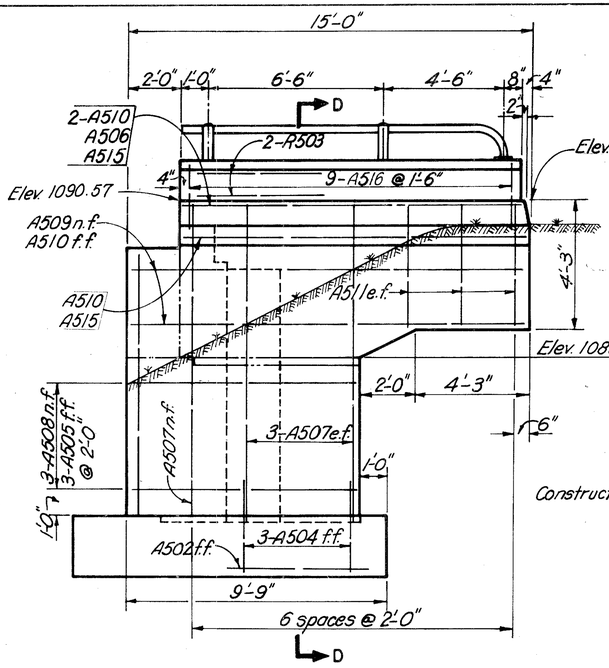
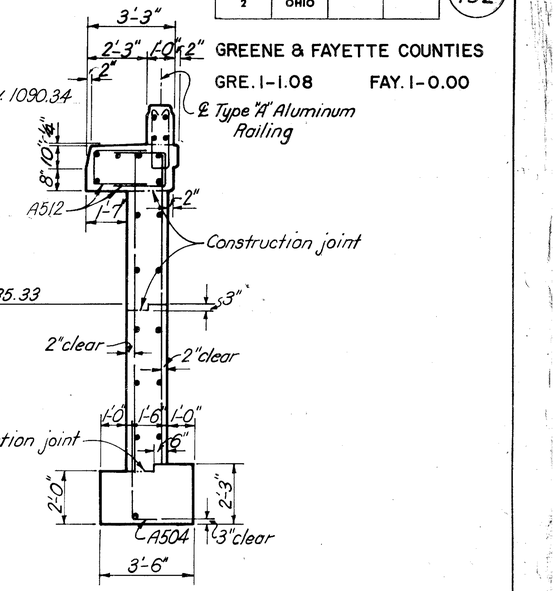
GREENE & FAYETTE COUNTIES
GRE. 1-1.08 FAY. 1-0.00



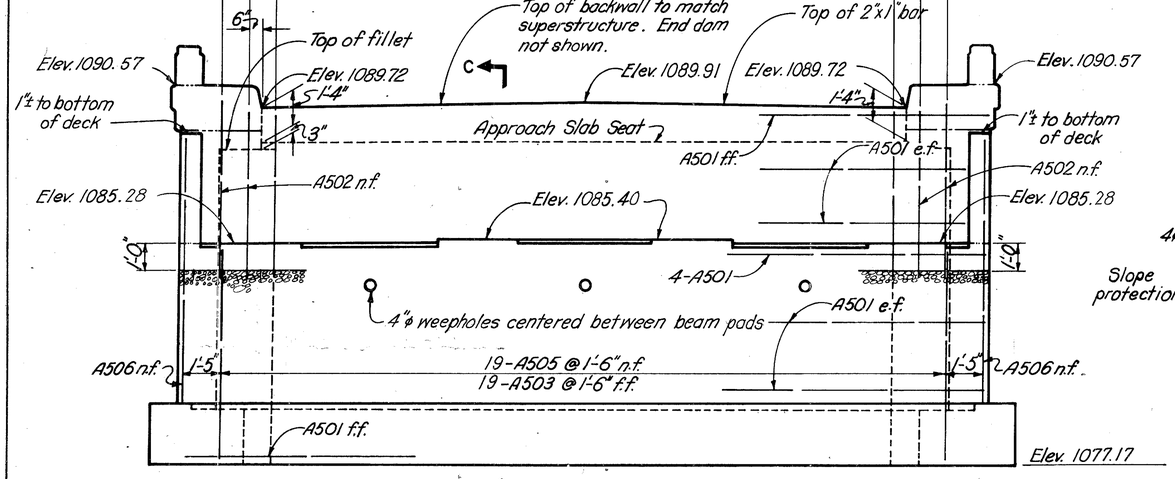
PLAN



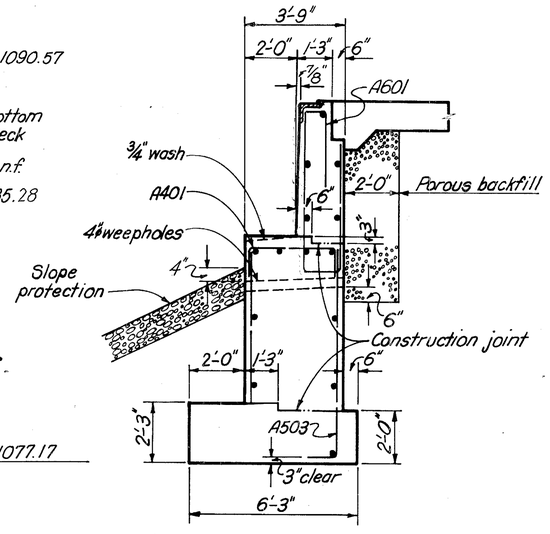
VIEW A
(VIEW B OPP. HAND)



SECTION D



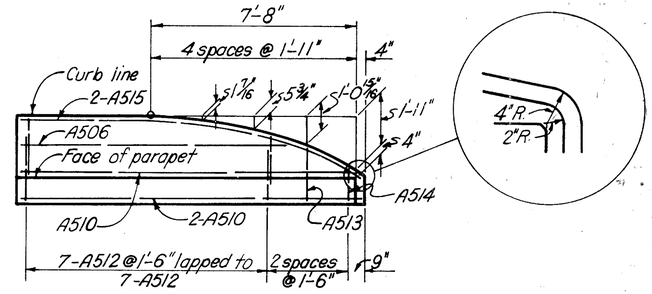
ELEVATION



SECTION C

NOTE: For End dam details see Std. Drwg. CSB-2-56, sheet 2.
For Curb Plate details see Std. Drwg. CSB-2-56, sheet 3.

Design Soil Pressure = 1.8 Tons p.s.f.



WING CURB DETAILS

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

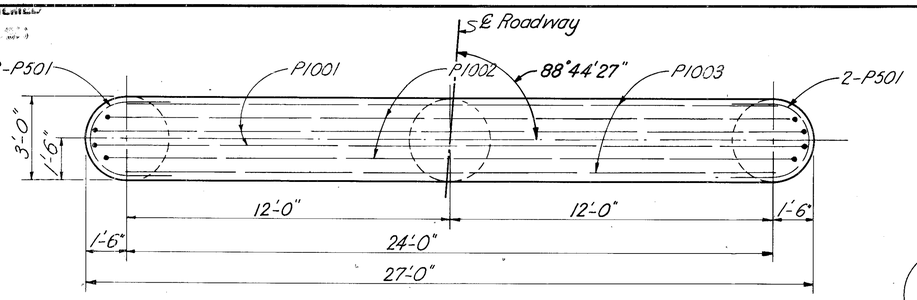
ABUTMENT DETAILS

BR. NO. GRE.-1-0148

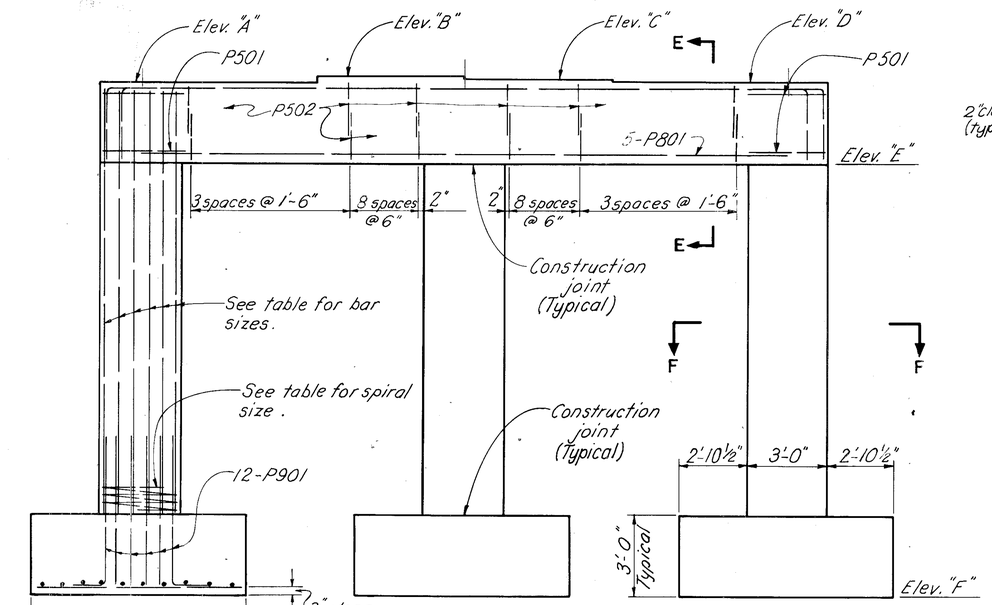
SRI UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L M K	R.A.F.		WEK	7-19-62	

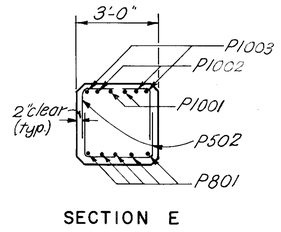


PLAN



ELEVATION

SECTION F
(Typical all footings)



SECTION E

PIER ELEVATIONS

Elevation	A	B	C	D	E	F	Column Steel Re-Steel	Column Steel Spiral	Length of Column
Pier #1	1085.50	1085.63	1085.63	1085.50	1082.50	1054.00	12-P902	SP1	25'-6"
Pier #2	1085.78	1085.90	1085.90	1085.78	1082.78	1054.00	12-P902	SP2	25'-9⅜"
Pier #3	1085.50	1085.63	1085.63	1085.50	1082.50	1054.00	12-P902	SP1	25'-6"

In placing top reinforcing steel in pier #2, special care shall be taken so that it will not interfere with the drilling of anchor bolt holes.

Design Soil Pressure = 2.5 tons p.s.f.

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

112
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

BURGESS & NIPLE — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS

BR. NO. GRE.-I-0148

SRI UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

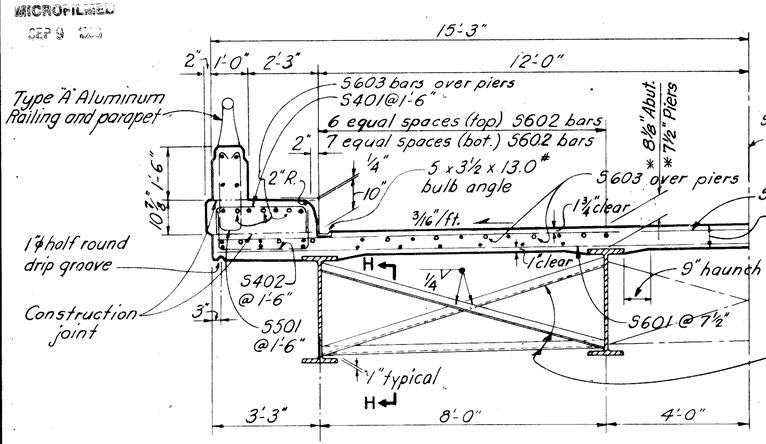
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L M K	R. A. F.		WCR	7-19-62	

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

113/162

GREENE & FAYETTE COUNTIES

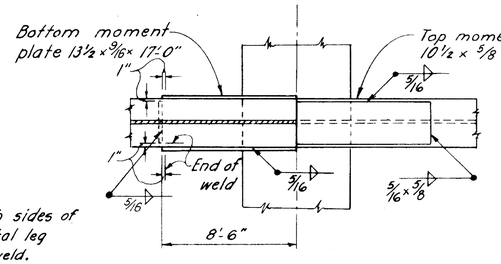
GRE.1-1.08 FAY.1-0.00



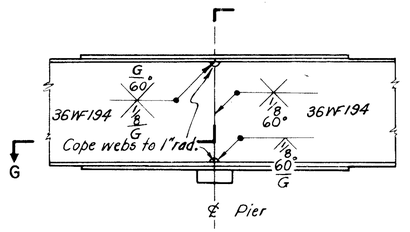
TRANSVERSE HALF SECTION

NOTE: All longitudinal bars 5602 except as otherwise shown. Lap 5602 bars 1'-11" minimum. 10 bars in a row.

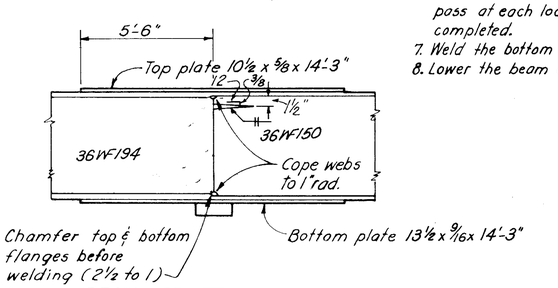
SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the PLANS and SPECIFICATIONS, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the specifications regarding the use of Chromate Primers.



SECTION G



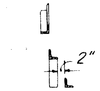
BEAM SPLICE DETAILS
PIER NO. 2



BEAM SPLITTING DETAILS
PIER NO. 1 & 3
(All welding same as shown on Beam Splice Details)

BEAM SPLICE WELDING PROCEDURE:

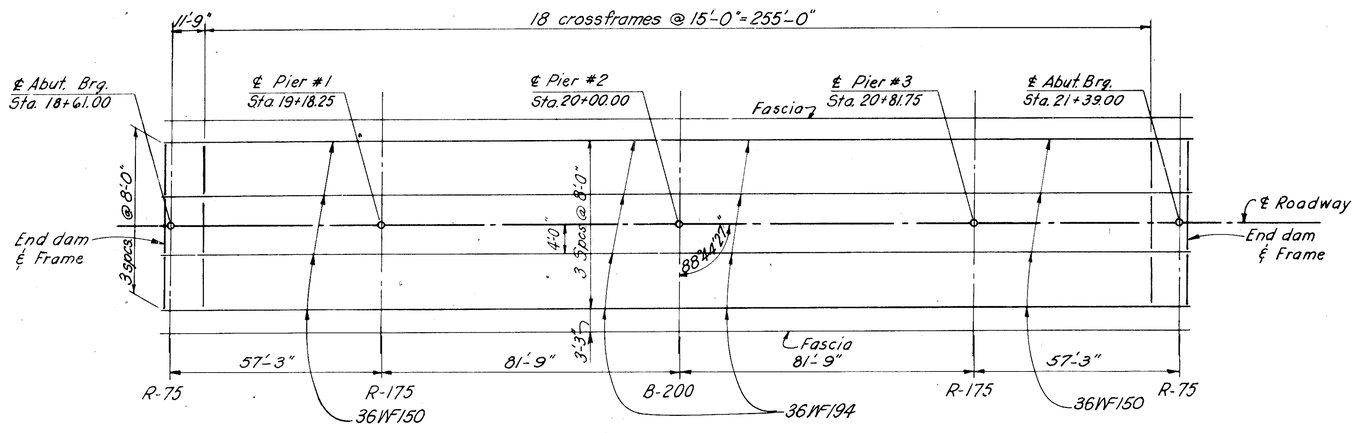
1. Raise ends of beams at Pier #1 or #3, 3½".
2. Butt-weld the beams at Pier #2, using the following sequence: make one pass on each flange, then two on the web; repeat using one pass at each location until welds are completed.
3. Weld the bottom and top moment plates at Pier #2.
4. Lower ends of beams.
5. Raise ends of beams 5/8" at each abutment.
6. Butt-weld the beams, using the following sequence: make two passes on each flange then two on the web: repeat, using one pass at each location until welds are completed.
7. Weld the bottom and top moment plates.
8. Lower the beam ends to final position.



SECTION H

* This dimension is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

DECK SLAB HAUNCH: The haunch in the deck slab adjacent to the top of the steel beams, which is shown as 9" wide may vary from this dimension with a minimum of 6" and a maximum of 12". Maximum slope of haunch shall be one vertical to four horizontal. Payment for deck slab concrete shall be based on the 9" width.



STRUCTURAL STEEL LAYOUT

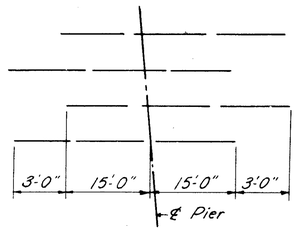


DIAGRAM SHOWING S603 OVER PIERS

For Details of	See
End dam & End Frame	Std. Drwg. CSB-2-56, sh. 2
Curb plate	Std. Drwg. CSB-2-56, sh. 3
Rockers & Bolsters	Std. Drwg. RB-1-55
Scuppers	Std. Drwg. CSB-2-56, sh. 3
Railing	Std. Drwg. AR-1-57 (rev. 4-2-62

DEFLECTION & CAMBER	SPAN 1	SPAN 2	SPAN 3	SPAN 4
Weight of Steel	1/16"	1/8"	1/8"	1/16"
Remaining D.L.	5/16"	5/8"	5/8"	5/16"
Vertical Curve	9/16"	1 1/8"	1 1/8"	9/16"
Total	15/16	1 7/8"	1 7/8"	15/16
Required Camber	1"	1 3/8"	1 1/8"	1"

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BR. NO. GRE-1-0148

SR1 UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMN	GEW		WCR	WCR 7-19-62	

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	INCR WT	SH'P
SUPERSTRUCTURE					
S601	447	30'-2"	20,254		S
S602	550	29'-8"	24,508		S
S603	84	33'-0"	4,164		S
S501	376	5'-5"	2,126		B
S502	447	30'-2"	14,063		S
S401	398	3'-10"	1,019		B
S402	398	5'-8"	1,507		B
RAILING					
R501	136	14'-6"	Included with Railing for payment		S
R502	16	11'-9"			S
R503	16	12'-4"			S
REPLACEMENT BARS					
RE10	1	7'-2"			S
RE9	2	6'-10"			S
RE8	1	6'-6"			S
RE6	6	5'-11"			S
RE5	3	5'-7"			S
RE4	1	5'-3"			S
RESP	1	5'-3"			B

MARK	NO.	LENGTH	WEIGHT	INCR WT	SH'P
ABUTMENTS					
A601	48	14'-10"	1069		B
A501	28	29'-9"	869		S
A502	12	7'-0"	88		S
A503	38	8'-0"	317		B
A504	12	3'-10"	48		B
A505	70	5'-9"	420		S
A506	8	9'-5"	79		S
A507	28	10'-10"	316		S
A508	12	8'-3"	103		S
A509	8	14'-6"	121		S
A510	20	12'-3"	256		S
A511	24	3'-9"	94		S
A512	56	5'-3"	307		B
A513	4	6'-3"	26		B
A514	4	4'-10"	20		B
A515	8	12'-9"	106		B
A516	36	5'-5"	204		B
A401	48	4'-3"	136		B
PIERS					
P1001	6	31'-5"	811		B
P1002	6	30'-5"	785		B
P1003	6	24'-0"	620		S
P901	108	6'-6"	2,387		B
P902	108	28'-2"	10,343		S
P801	15	24'-0"	961		S
P601	180	8'-3"	2,230		S
P501	12	7'-6"	94		S
P502	132	6'-9"	929		B

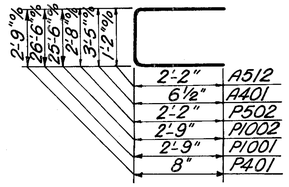
MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SPIRALS								
SP1	6	½"ϕ	32"	25'-2"	4½"	70	4	2,726
SP2	3	½"ϕ	32"	25'-6"	4½"	71	4	1,382

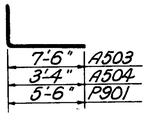
SPIRAL NOTE

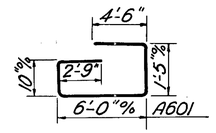
The "Number of Turns" shown in the list for the spirals is the "length" divided by the "pitch" plus 1 extra turns each for top and bottom of spiral.

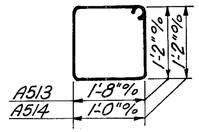
Spiral reinforcing shall be of intermediate grade steel, hot rolled without deformations, conforming in other respects to Item S-4.

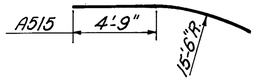
Four steel channel, tee, or angle spacers, equally spaced along the periphery of the coil, shall be provided, for each spiral. The weight of these spacers, based on 0.68 p.l.f. of spacer, is included in the tabulated weight of the spiral bars.

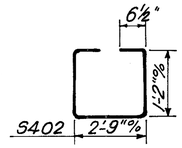




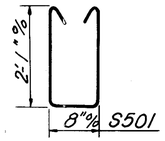


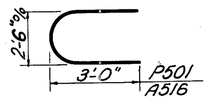






RE Spiral





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

114
162

GREENE & FAYETTE COUNTIES

GRE. 1–1.08 FAY. 1–0.00

BURGESS & NIPLE – CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST

BR. NO. GRE.-1-0148

SR 1 UNDER ORCHARD GROVE ROAD

GREENE COUNTY STA. 37+70.68

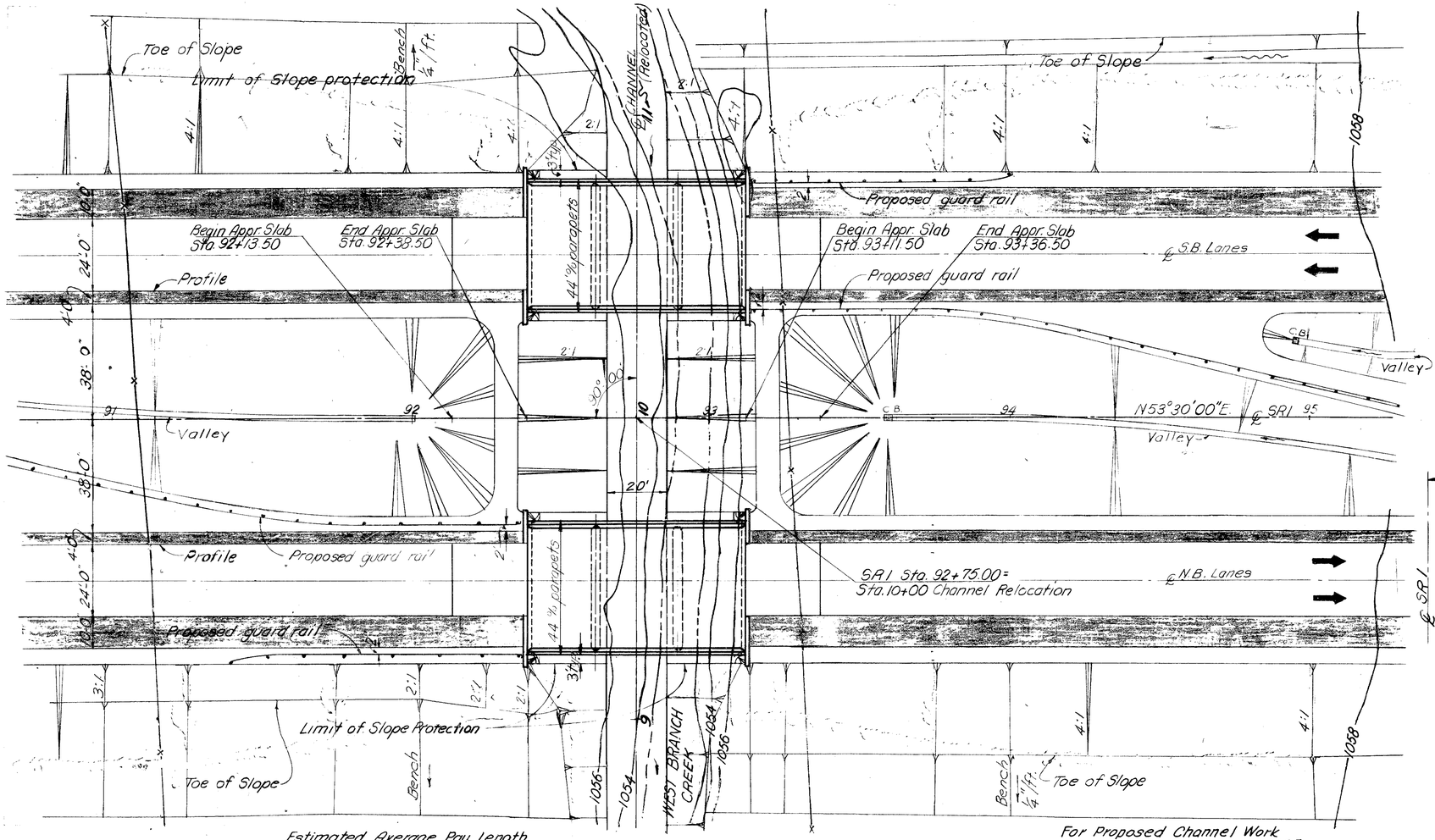
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.A.F.		WCK	AVK 7-19-62	

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

115
162

GREENE & FAYETTE COUNTIES

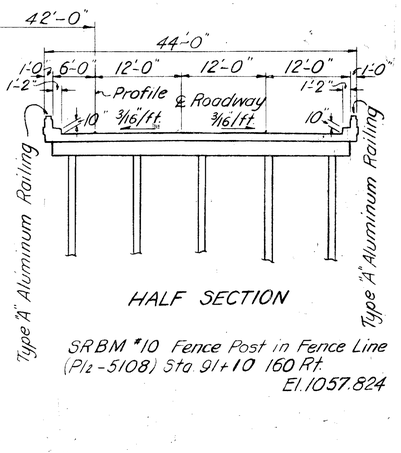
GRE. I-1.08 FAY. I-0.00



Estimated Average Pay Length of 12 BP53 piles.
Abutments 40 , & Piers 45 .

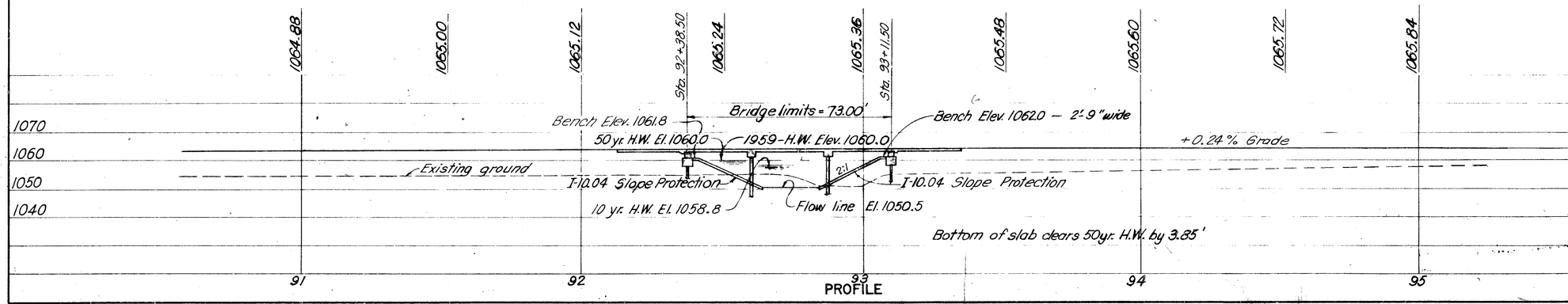
PLAN

For Proposed Channel Work See Sheet 105



HALF SECTION

SR B.M. #10 Fence Post in Fence Line (P12-5108) Sta. 91+10 160 Rt. El. 1057.824



PROFILE

*Adequate for AASHO alternate loading

Drainage Area 8.21 sq. miles

PROPOSED STRUCTURE

TYPE 3 Span Continuous Concrete Slab on Capped Pile Substructure
SPAN 22.00'-27.50'-22.00' C/c Brgs.
LOAD FREQUENCY RATING CF=2000(57) *
ROADWAY 42'-0" parapets
SKEW None
WEARING SURFACE 1" Monolithic W.C.
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent.
SUPERELEVATION None

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN

BR. NO. GRE-1-0252 L.E.R.
SR 1 OVER WEST BRANCH CREEK

SCALE 1" = 20'
GREENE COUNTY

92+38.50
STA. 93+11.50

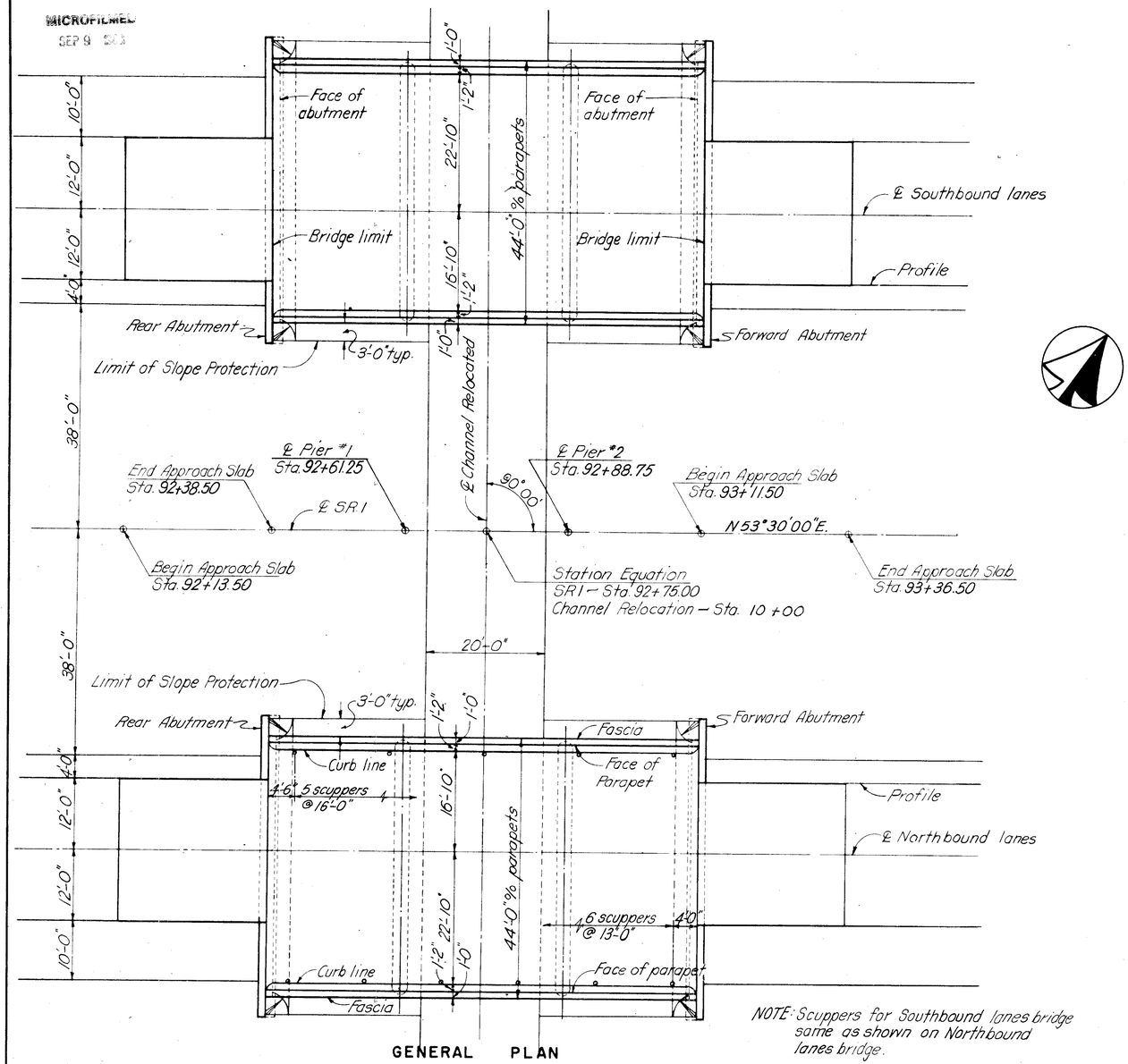
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
WCR	R. A. F.		WCR	WCR	4-9-62	

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

116
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00



NOTE: Scuppers for Southbound lanes bridge same as shown on Northbound lanes bridge.

ESTIMATED QUANTITIES

BR. NO. GRE.-1-0252 L.&R. (BOTH BRIDGES)

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L.
E-2	193	Cu.yd.	Unclassified excavation		193		
E-3	1360	Cu.yd.	⊕Channel excavation				1360
S-1	334	Cu.yd.	Class "C" concrete, superstructure & pier caps	299		35	
S-1	103	Cu.yd.	Class "E" concrete, abutments		103		
S-4	86,361	Lb.	Reinforcing steel	66,303	11,248	8,810	
S-14	292	Lin.ft.	Railing (aluminum rail and supports, concrete parapet)	292			
S-16	Lump	Sum	First test pile				Lump
S-18	2720	Lin.ft.	Steel Piles, 12 BP 53		1280	1440	
S-29	22	Each	Scuppers, 4" ϕ cast or wrought iron pipe	22			
S-29	23	Cu.yd.	Porous backfill		23		
I-10	607	Sq.yd.	Crushed aggregate slope protection		607		
Special	299	Each	* Water reducing set retarding admixture	299			
I-127	2	Each	⊗Delineators-Type A-1, Bracket Mounted				2

* See proposal. ⊕From Sheet No. 13 & 105. ⊗ From Sheet No. 13.

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures of the State of Ohio Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings.
AS-1-54 rev. 7-5-62, A-1-54 rev. 12-1-54
AR-1-57 rev. 4-2-62, P-1-54 rev. 2-2-59
CS-2-54 sheets 1&2 rev. 2-2-59

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will intefere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations

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

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digit are used, and the first two where four are used, indicate the bar size.

CONSTRUCTION JOINTS: One construction jt. in the bridge slab shall be placed on the transverse centerline of the middle span or 1-0" off the transverse centerline if necessary to miss railing posts and transverse reinforcing bars. One longitudinal joint, on the centerline of roadway, will be permitted.

SURFACE FINISH OF CONCRETE: The requirements of Sec. 5-1.22, Rubbed Finish, shall apply to the exposed surfaces of the entire superstructure except the top and bottom surfaces of sidewalks and roadways.

CAMBER: Camber of 1/800 of the span shall be provided in each span to allow for dead load deflection. This is the amount of camber required before falsework is released. To obtain this, proper allowance shall be made for the deflection of falsework members.

CURBS: Shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to obtain full dead load deflection.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

EXCAVATION QUANTITY: Includes the removal of fill material required for construction of the abutments and the removal of fill material above the level of the earth bench.

BURGESS & NIPLE – CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

GENERAL PLAN & ELEVATION, GENERAL NOTES & EST. QUANTITIES

BR. NO. GRE.-1-0252 L&R

SR1 OVER WEST BRANCH CREEK

GREENE COUNTY STA. 92+38.50 – STA. 93+11.50

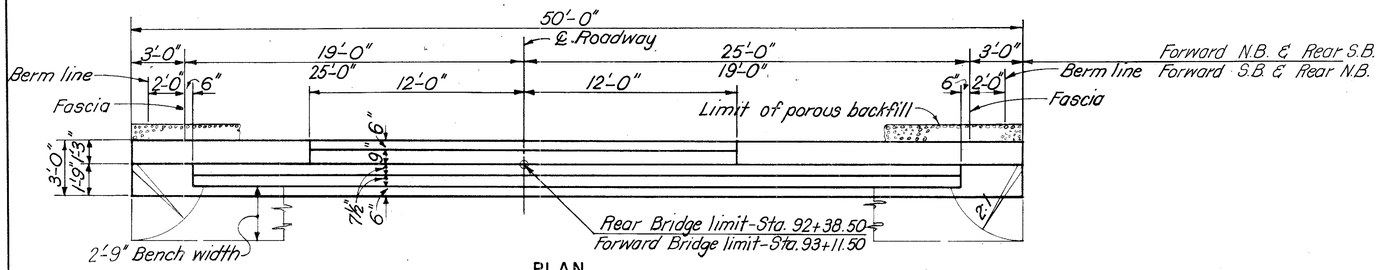
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	AF		WBR	7-25-62	

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

117
162

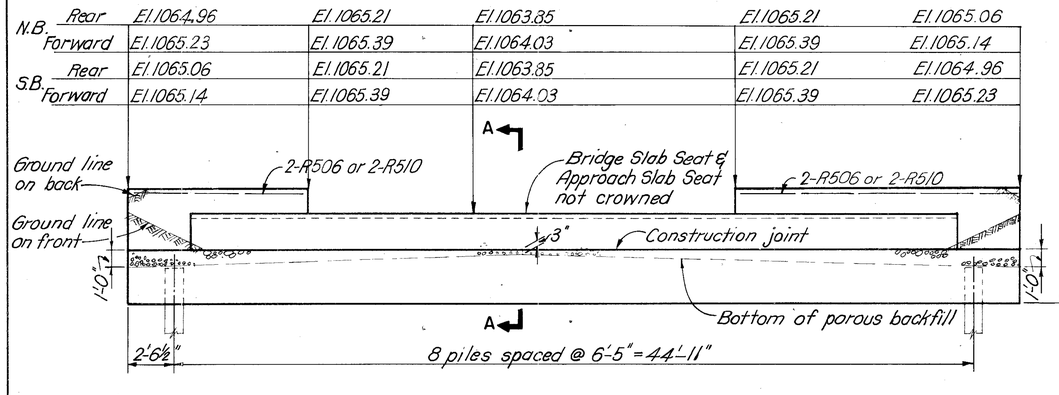
GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

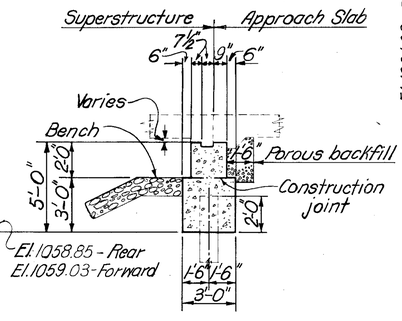


PLAN

N.B.	Rear	El. 1064.96	El. 1065.21	El. 1063.85	El. 1065.21	El. 1065.06
	Forward	El. 1065.23	El. 1065.39	El. 1064.03	El. 1065.39	El. 1065.14
S.B.	Rear	El. 1065.06	El. 1065.21	El. 1063.85	El. 1065.21	El. 1064.96
	Forward	El. 1065.14	El. 1065.39	El. 1064.03	El. 1065.39	El. 1065.23

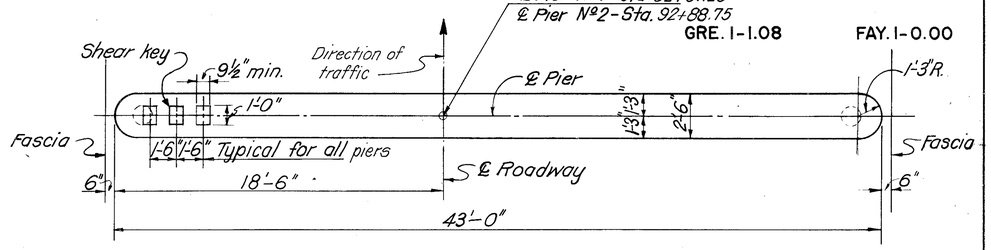


ELEVATION
Forward N.B. shown, others similiar

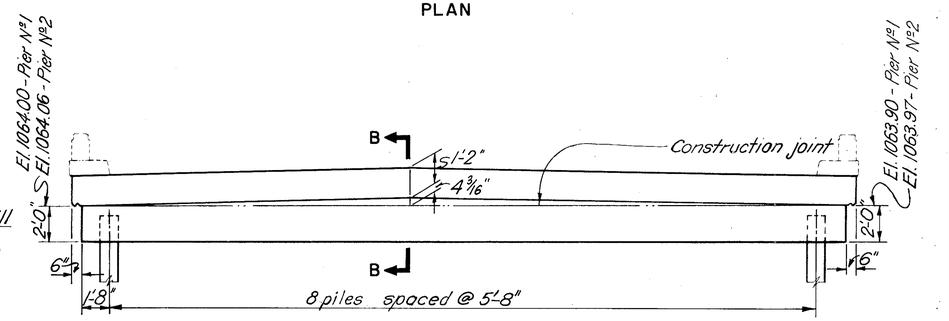


SECTION A

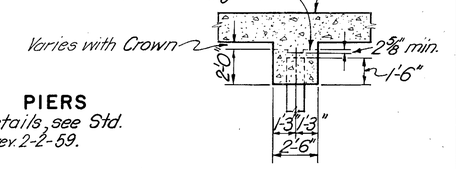
Note: Shear keys may be formed with 12" length of 3"x10" plank.



PLAN



ELEVATION
(Looking in the direction of traffic)



SECTION B

CAPPED PILE ABUTMENTS

NOTE: For additional details, see Std Drwg. A-1-54 : rev. 12-1-54

Abutment piles, 12 BP 53 shall be driven to a minimum bearing capacity of 23 tons per pile.

POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes. Excavation therefor, in excess of that required for construction of the footing, shall be considered as paid for in the bid price per cu.yd. paid for porous backfill.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the earth bench after which excavation shall be made for the abutment, and piles driven.

PIER PILE ENCASEMENT as shown on Std. Dwg. P-1-54 is not required. The painting of the piles shall extend to low water elevation or, if the proposed surface of the ground is above low water, it shall extend to at least one foot below the proposed surface of the ground.

CAPPED PILE PIERS

NOTE: For additional details, see Std. Drwg. P-1-54, rev. 2-2-59.

Pier Piles, 12 BP 53 shall be driven to a minimum bearing capacity of 30 tons per pile.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER & ABUTMENT DETAILS

BR. NO. GRE.-1-0252 L&R.

SRI OVER WEST BRANCH CREEK

GREENE COUNTY STA. 92+38.50 / 93+11.50

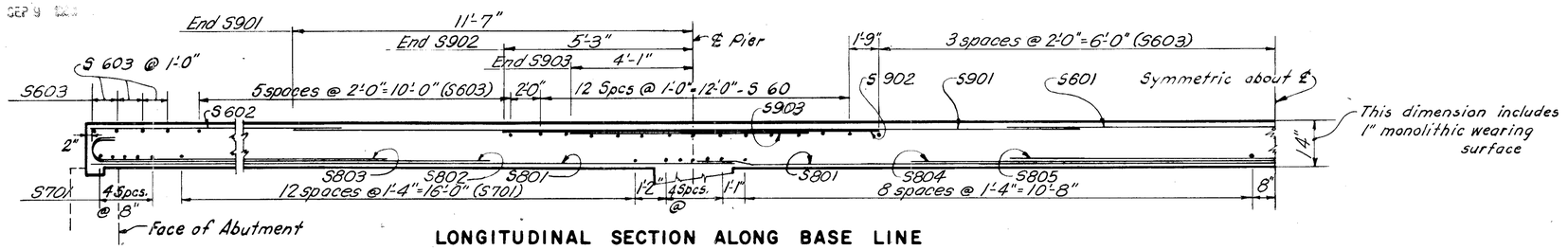
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.A.F.	R.A.F.	WCR	7-25-62	

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

118
162

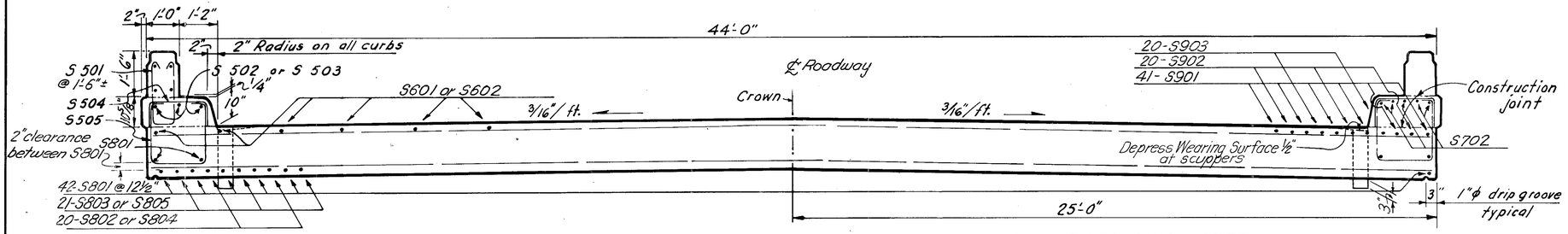
GREENE & FAYETTE COUNTIES

GRE, I-1.08 FAY. I-0.00



LONGITUDINAL SECTION ALONG BASE LINE

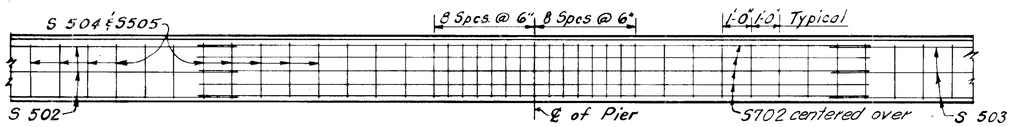
TYPICAL REINFORCING STEEL AT CENTER LINE OF SPAN



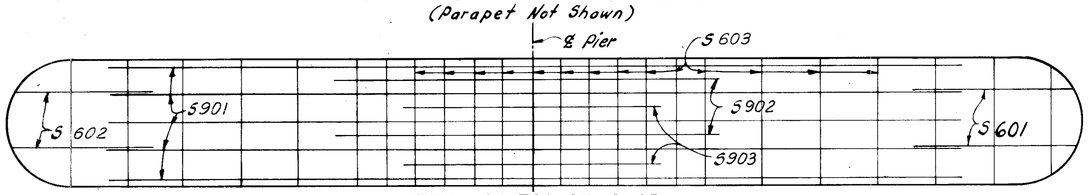
TYPICAL REINFORCING STEEL OVER PIER

(Looking in the direction of traffic)

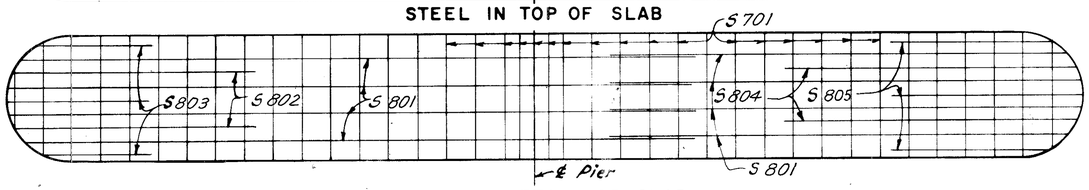
Notes:
1. Place longitudinal steel approximately parallel to Base Line of Roadway.
2. Place transverse steel parallel to ℄ of pier & abutment.
3. Reinforcing Steel clearance: where two bars of different size are lapped, the clearance requirement for the larger bar shall also apply to the smaller bar. Reinforcing steel clearance from face of concrete shall be 1½" for #11 bars, 1¼" for #9 and #10 bars and 1" for all smaller bars. The above clearances do not include monolithic wearing surface.
4. S603 and S701 bars may be furnished in one length as shown or in pairs of equal length, lapped thirty diameters at the centerline of the roadway, or they may be furnished in pairs of different length in order to place the lap beyond a longitudinal construction joint at the centerline of roadway at the option of the contractor. Determination of the pay quanity will be according to the number and lengths shown on the plans.



PART PLAN OF SAFETY CURB
(Parapet Not Shown)



STEEL IN TOP OF SLAB



STEEL IN BOTTOM OF SLAB

NOTE: For additional details see Std. Drwg. No CS-2-54, rev. 2-2-59 sheet 1 & 2.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BR. NO. GRE.-1-0252 L & R

SR1 OVER WEST BRANCH CREEK

GREENE COUNTY STA. 92+38.50
93+11.50

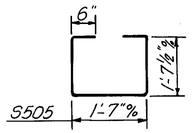
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L M K	GEW	R. A. F.	WCR	7-25-62	

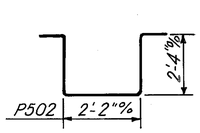
(BOTH BRIDGES) REINFORCING STEEL LIST BR. NO. GRE.-1-0252 L & R.

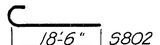
MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
SUPERSTRUCTURE					
S901	164	21'-6"	11,988		S
S902	80	9'-11"	2697		S
S903	80	8'-2"	2221		S
S801	168	25'-11"	11,625		S
S802	80	19'-7"	4183		B
S803	84	16'-6"	3701		B
S804	40	14'-8"	1566		S
S805	42	14'-4"	1607		S
S701	128	43'-6"	11,381		S
S702	40	15'-2"	1240		S
S601	42	11'-6"	725		S
S602	84	12'-1"	1525		S
S603	108	43'-6"	7056		S
S501	196	5'-5"	1107		B
S502	24	16'-7"	415		S
S503	12	15'-6"	194		S
S504	372	2'-8"	1035		B
S505	372	5'-3"	2037		B
RAILING					
B501	48	17'-0"	851		S
B502	32	10'-2"			S
REPLACEMENT BARS					
RE11		7'-6"			S
RE10	1	7'-2"			S
RE9	2	6'-10"			S
RE8	3	6'-6"			S
RE7	2	6'-2"			S
RE6	1	5'-11"			S
RE5	2	5'-7"			S
RE4	1	5'-3"			S

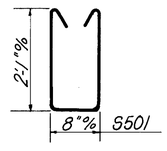
Bid Statement for Railing with Railing

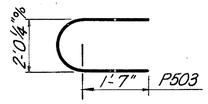
MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
ABUTMENTS					
A1001	32	22'-11"	3156		S
R801	32	26'-1"	2229		S
R501	32	25'-7"	854		S
R502	312	6'-7"	2142		B
R503	16	22'-1"	369		S
R504	48	5'-4"	267		S
R505	64	7'-11"	528		B
R506	8	7'-8"	64		S
R507	32	4'-11"	164		S
R508	56	6'-8"	389		B
R509	56	8'-5"	492		B
R510	8	15'-8"	131		S
R401	128	5'-5"	463		B
PIERS					
P1001	16	43'-6"	2995		S
P901	16	40'-6"	2203		S
P701	192	4'-0"	1570		S
P501	8	40'-6"	338		S
P502	136	8'-0"	1135		B
P503	16	6'-4"	106		B
P401	128	5'-5"	463		B

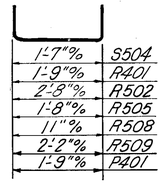












FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

119
162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST

BR. NO. GRE.-1-0252 L & R.

SR1 OVER WEST BRANCH CREEK

GREENE COUNTY STA. 92+38.50 to STA. 93+11.50

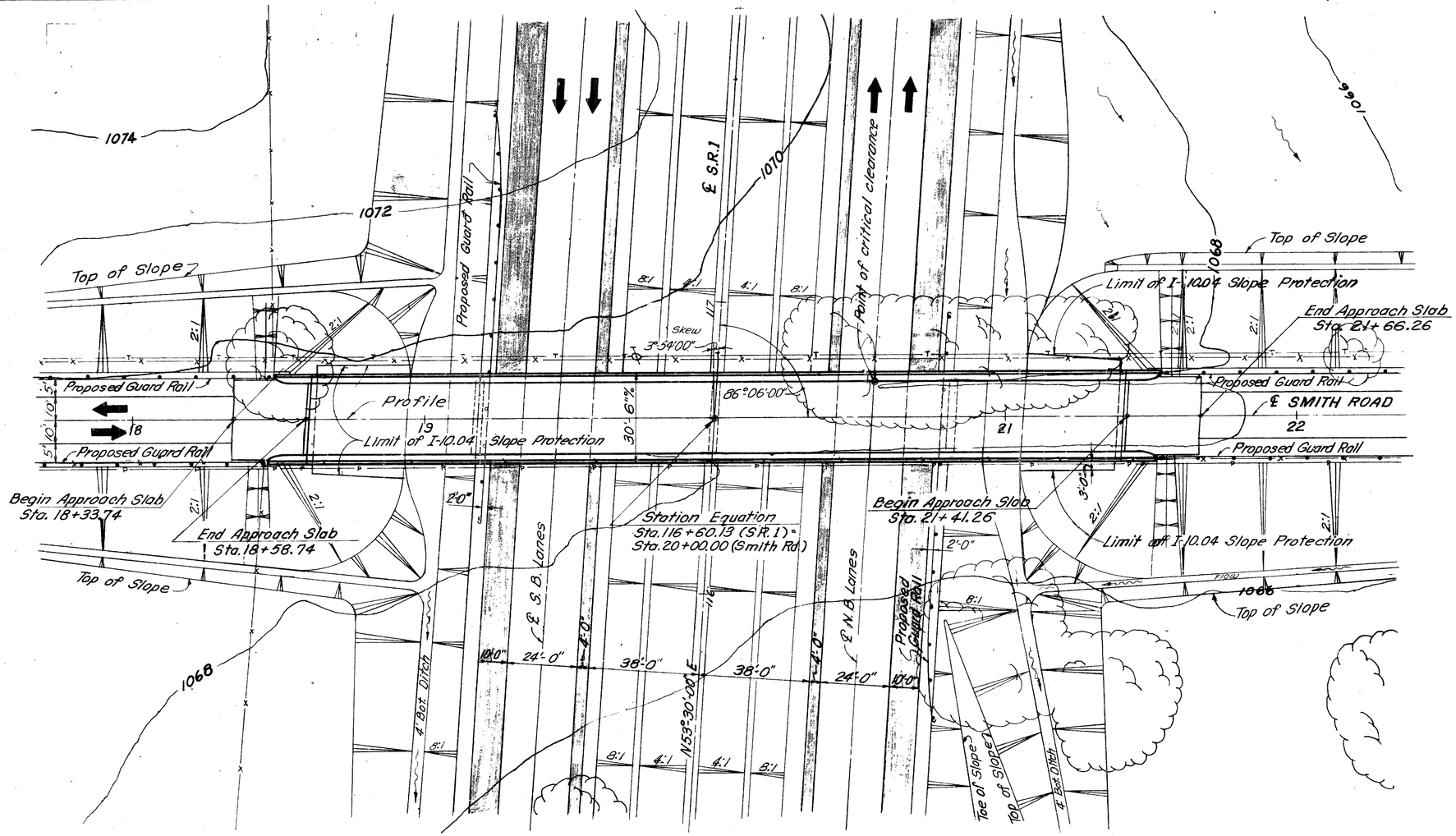
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.A.F.	R.A.F.	WCR	HHS 7-25-62	

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

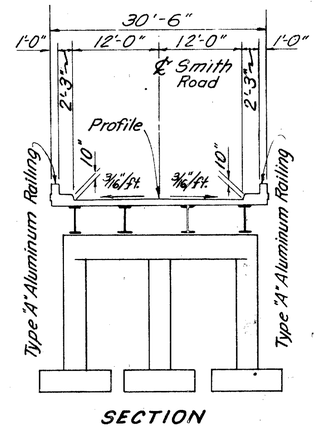
120
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

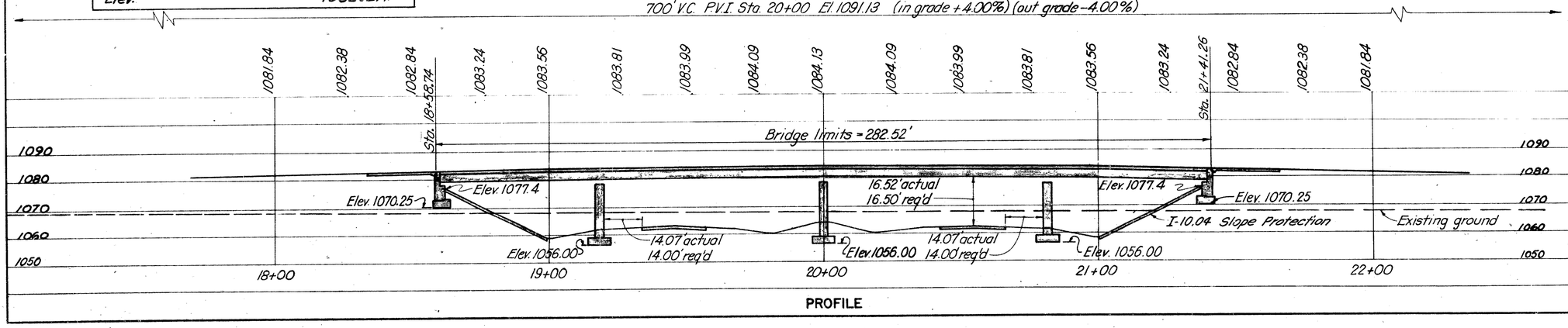


PLAN



SECTION

SR B.M. # 12, R.R. Spike in S 48" Elm Tree
Sta. 113+50 255' Rt
Elev. 1062.211



PROFILE

PROPOSED STRUCTURE
TYPE 4 Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.25-81.75-81.75-57.25 % Bearing
LOAD FREQUENCY RATING C.F.=1.30 (57)
ROADWAY 24' 0" of 2'-3" Safety curbs.
SKEW 3°54'00" L.F.
WEARING SURFACE 3/4" Monolithic
APPROACH SLABS Special (25' Long)
ALIGNMENT Tangent
SUPERELEVATION None

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN

BR. NO. GRE.-1-0297

SR1 UNDER SMITH ROAD

SCALE 1"=20'
GREENE COUNTY STA. 116+60.13

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WAR	WCR C.E.G.		WAR	WAR 4-9-62	

ESTIMATED QUANTITIES

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L
E-2	641	Cu.yd.	Unclassified excavation		200	441	
S-1	260	Cu.yd.	Class "C" concrete, superstructure	260			
S-1	67	Cu.yd.	Class "C" concrete, piers above footings			67	
S-1	98	Cu.yd.	Class "E" concrete, abutment walls		98		
S-1	109	Cu.yd.	Class "E" concrete, footings		37	72	
S-4	92,595	Lb.	Reinforcing steel	69,357	4660	18578	
S-7	235,000	Lb.	Structural steel	235,000			
S-8	235,000	Lb.	Field painting of structural steel	235,000			
S-14	611	Lin.ft.	Railing (aluminum rail and supports) and concrete parapet.	560	51		
Special	260	each	Water reducing-set retarding admixture *	260			
S-29	24	Cu.yd.	Porous backfill				24
S-29	8	each	Scuppers	8			
I-10	333	Sq.yds.	Crushed Aggregate Slope Protection				333

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

(121/162)

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings

AR-1-57 rev. 4-2-62
CSB-2-56 rev. 2-2-59, sheet 2 and 3
RB-1-55 rev. 2-2-59

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will interfere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations.

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

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digits are used, and the first two where four are used, indicate the bar size number.

DECK PLACING PROCEDURE: In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously-placed deck concrete, the sequence of pours shall be upgrade, starting at the lowest end (or ends) on the inclined grade or on the vertical curve.

POROUS BACKFILL: 2 ft. thick, full length of abutment and wings, shall extend up to the underside of the approach slab

WELDING of structural steel shall be class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welds are shown thus B

BEAM WEB WELDS: Butt welds in webs of beams may have convex reinforcement in accordance with Sect. S-7.22. Finishing flush by grinding is not required.

APPROACH SLAB DETAILS: See page 107.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after a waiting period of 60 days, the excavation shall be made for the abutments.

EXCAVATION QUANTITY includes the removal of fill material between the top of the earth slopes and the bottom of the abutment crossbeam.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than ⅛" are to be spliced by butt-welding, the depth of the smaller-depth beam shall be increased by splitting the web longitudinally at a distance of 1½" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than ⅜" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

SURFACE FINISH OF CONCRETE: The requirements of Sec. S-1.22, Rubbed Finish, shall apply to the following exposed concrete surfaces:
a. The entire superstructure except the top and bottom surfaces of sidewalks and roadways.
b. The entire surface of piers and abutments except bridge seats, backwalls and the face of spill-through abutments between outside beams.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

SHEET LEAD shall conform to the requirements of ASTM Designation B 29 without restriction to the Common Desilverized type.

LEGEND: [illegible]

* See proposal

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL NOTES AND ESTIMATED QUANTITIES

BR. NO. GRE.-1-0297

SR1 UNDER SMITH ROAD

GREENE COUNTY STA. 116+60.13

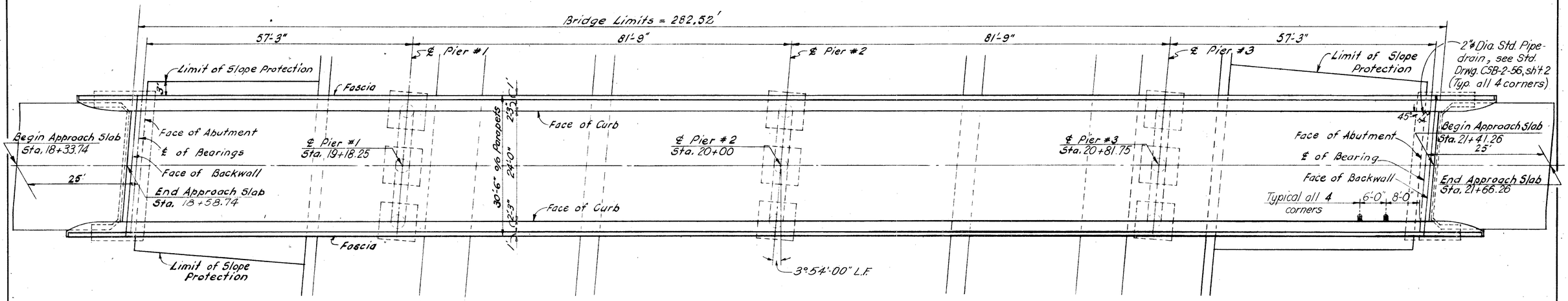
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK		A.A.F.	WCR	AWS 8-16-62	

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

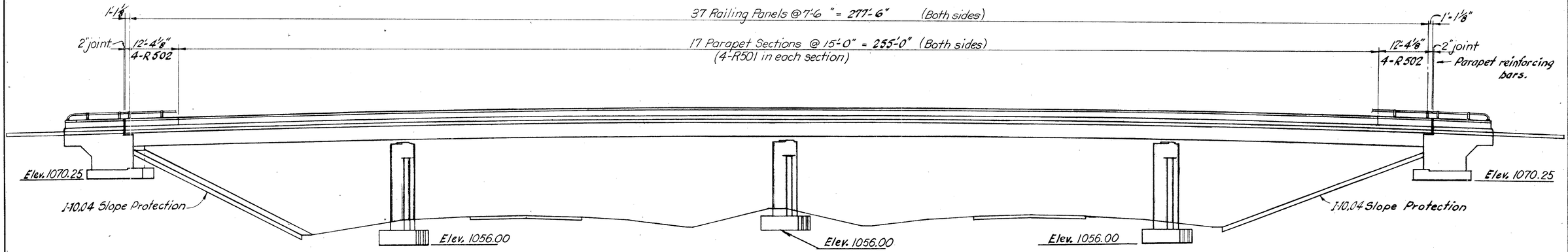
122
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00



GENERAL PLAN



GENERAL ELEVATION

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN AND ELEVATION

BR. NO. GRE,-1-0297

SR1 UNDER SMITH ROAD

GREENE COUNTY STA. 116 + 60.13

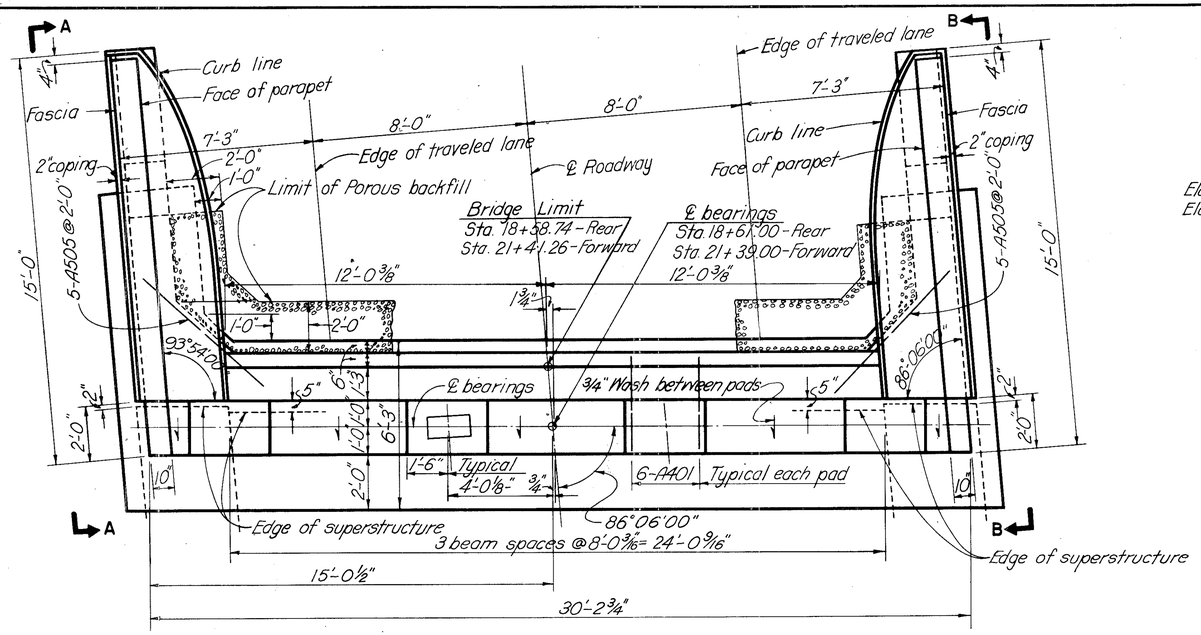
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	GEW		WCR	HWR 8-14-62	

(3) BR. NO'S. 3, 4, 5

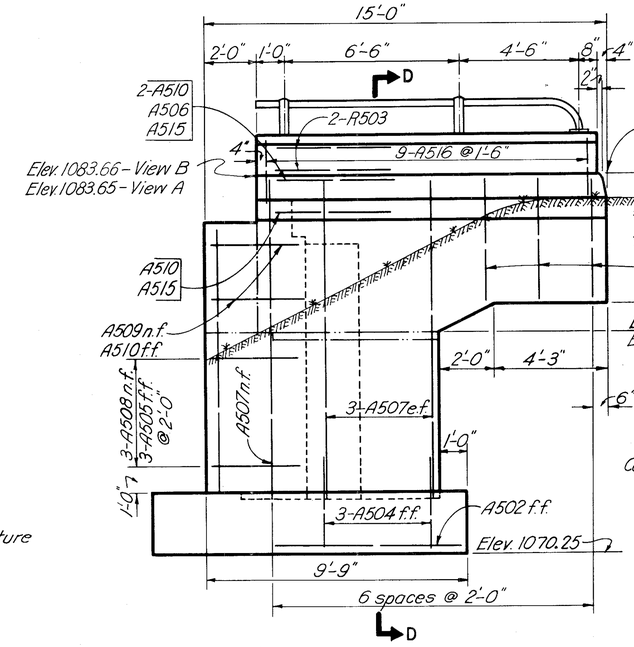
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

123
162

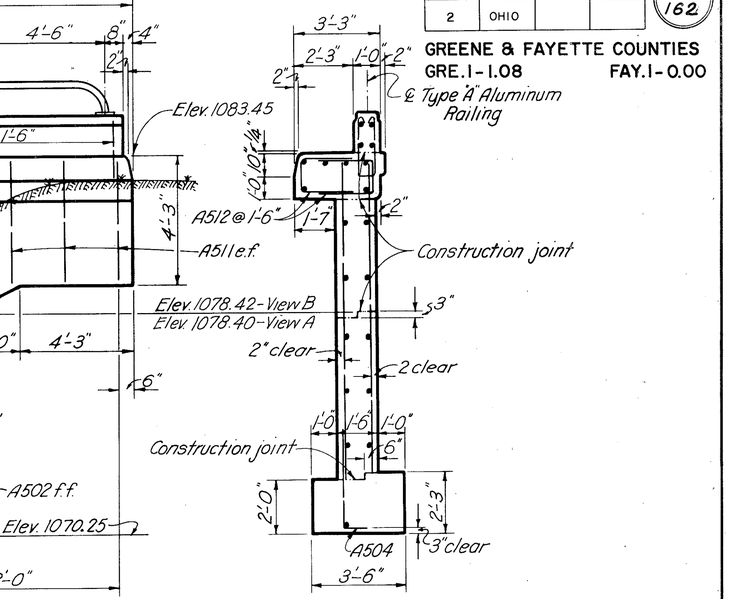
GREENE & FAYETTE COUNTIES
GRE.I-1.08 FAY.I-0.00



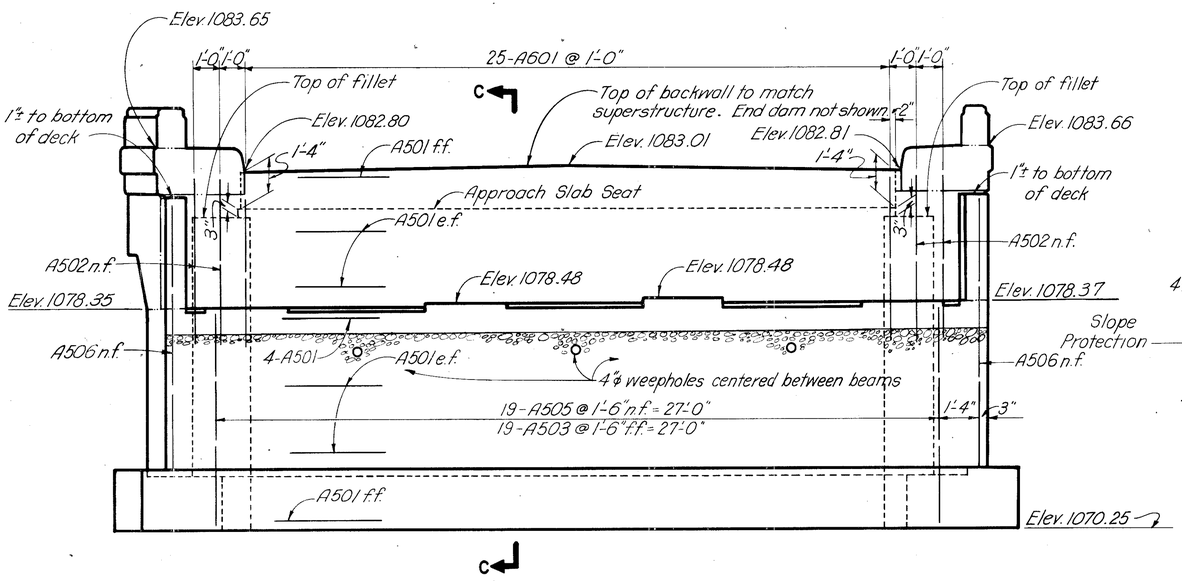
PLAN



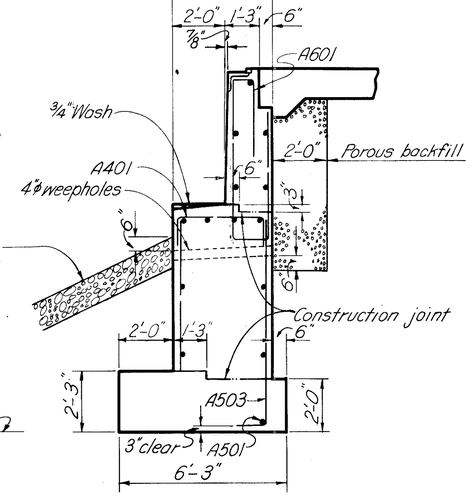
VIEW B
(VIEW A OPP. HAND)
Similiar except as shown



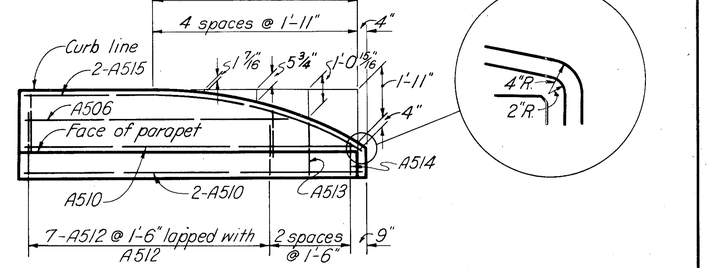
SECTION D



ELEVATION



SECTION C



WING CURB DETAILS

NOTE: For End Dam Details see Std. Drwg. CSB-2-56, sheet 2.

For Curb Plate Details see Std. Drwg. CSB-2-56, sheet 3.

Design Soil Pressure = 3600 p.s.f. max.

BURGESS & NIPLE—CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

ABUTMENT DETAILS

BR. NO. GRE.-1-0297

SR1 UNDER SMITH ROAD

GREENE COUNTY STA. 116+60.13

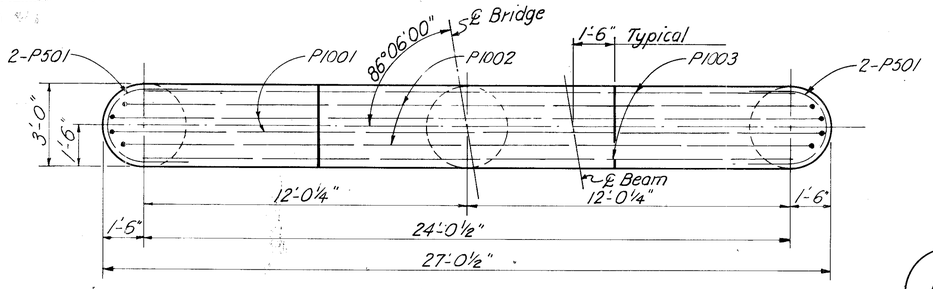
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	RAF	RAF	WER	8-14-62	

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

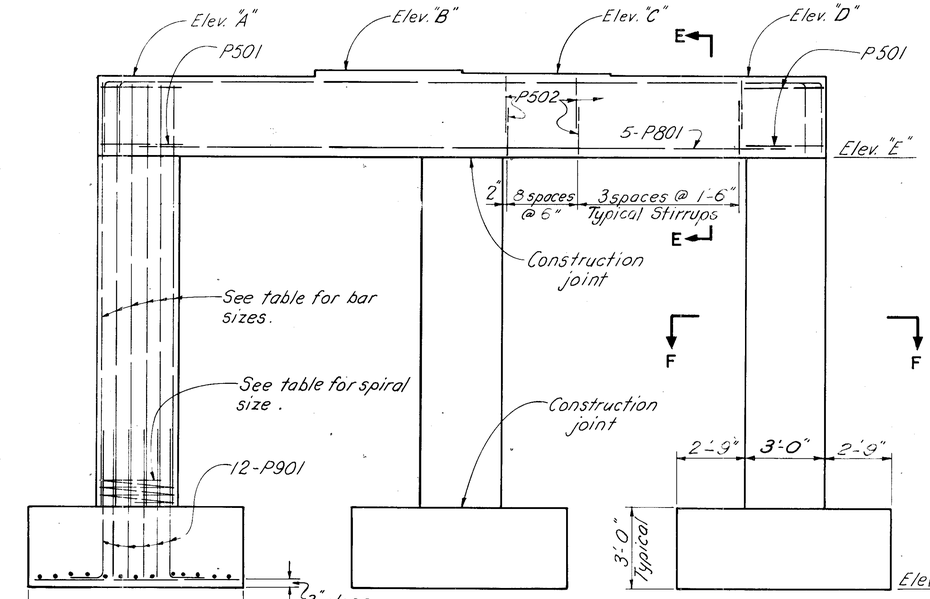
124
162

GREENE & FAYETTE COUNTIES

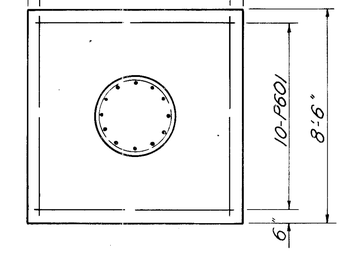
GRE. 1-1.08 **FAY. 1-0.00**



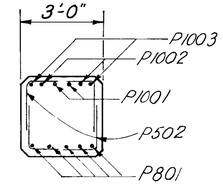
PLAN



ELEVATION



SECTION F



SECTION E

PIER ELEVATIONS

Elevation	A	B	C	D	E	F	Column Steel		Length of Column
							Re-Steel	Spiral	
Pier #1	1078.60	1078.71	1078.71	1078.58	1075.58	1056.00	P902	SP1	16'-7"
Pier #2	1078.87	1079.00	1079.00	1078.89	1075.87	1056.00	P902	SP1	16'-10½"
Pier #3	1078.58	1078.71	1078.71	1078.60	1075.58	1056.00	P902	SP1	16'-7"

In placing top reinforcing steel in pier 2, special care shall be taken so that it will not interfere with the drilling of anchor bolt holes.

Maximum Design Soil Pressure = 4450 p.s.f.

BURGESS & NIPLE — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS

BR. NO. GRE.-1-0297

SRI UNDER SMITH ROAD

GREENE COUNTY STA. 116+60.13

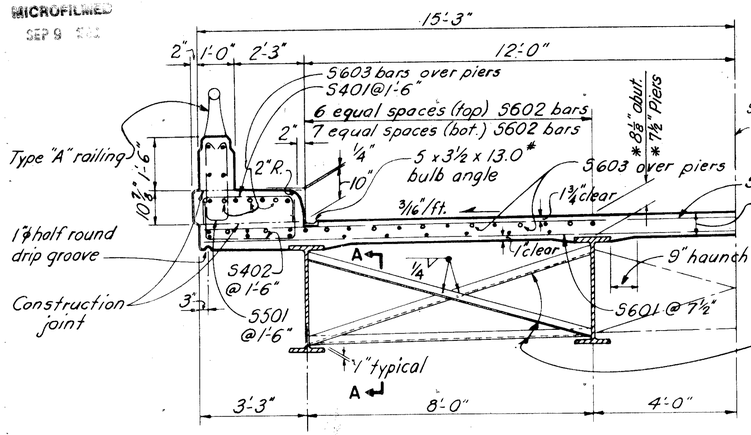
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK		R.A.F.	WER	4/18 8-14-62	

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

125
162

GREENE & FAYETTE COUNTIES

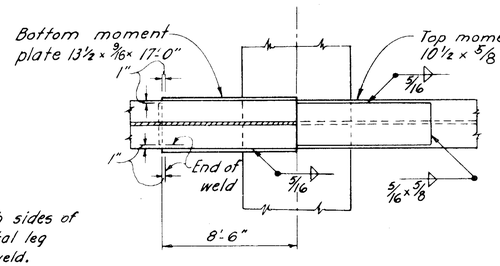
GRE.1-1.08 FAY.1-0.00



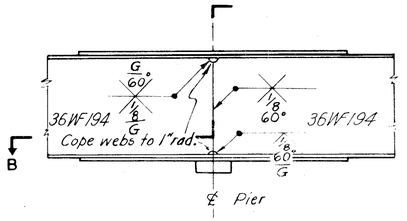
TRANSVERSE HALF SECTION

NOTE: All longitudinal bars S602 except as otherwise shown. Lap S602 bars 1'-11" minimum. 10 bars in a row.

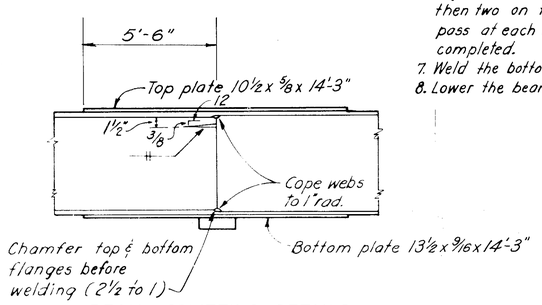
SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the PLANS and SPECIFICATIONS, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the specifications regarding the use of chromate primers



SECTION B



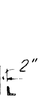
BEAM SPLICE DETAILS
PIER NO. 2



BEAM SPLITTING DETAILS
PIER NO. 1 & 3

BEAM SPLICE WELDING PROCEDURE:

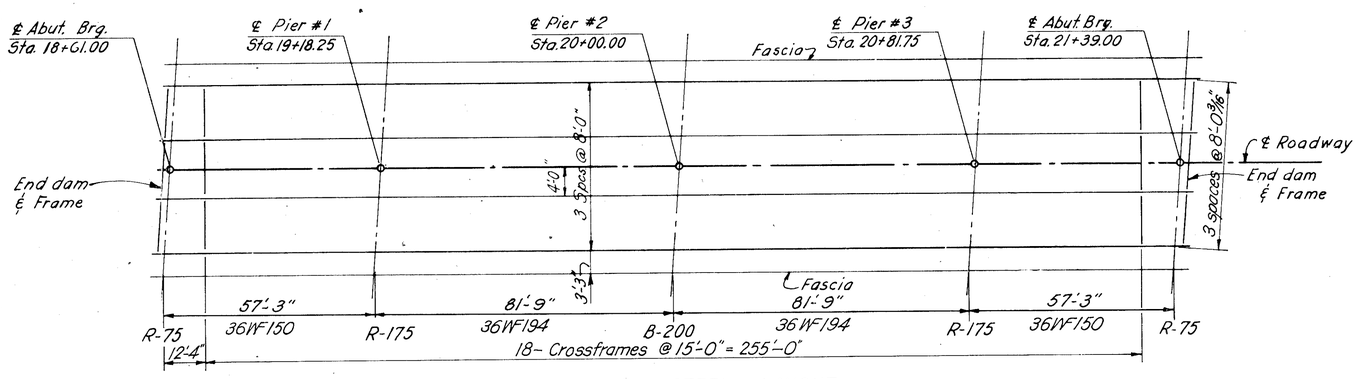
1. Raise ends of beams at Pier #1 or #3 3¼"
2. Butt-weld the beams at Pier #2, using the following sequence: make one pass on each flange, then two on the web; repeat using one pass at each location until welds are completed.
3. Weld the bottom and top moment plates at Pier #2.
4. Lower ends of beams.
5. Raise ends of beams ⅝" at each abutment.
6. Butt-weld the beams, using the following sequence: make two passes on each flange then two on the web: repeat, using one pass at each location until welds are completed.
7. Weld the bottom and top moment plates.
8. Lower the beam ends to final position.



SECTION A

* This dimension is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

DECK SLAB HAUNCH: The haunch in the deck slab adjacent to the top of the steel beams, which is shown as 9" wide may vary from this dimension with a minimum of 6" and a maximum of 12". Maximum slope of haunch shall be one vertical to four horizontal. Payment for deck slab concrete shall be based on the 9" width.



STRUCTURAL STEEL LAYOUT

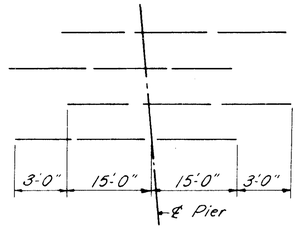


DIAGRAM SHOWING S603 OVER PIERS

For Details of	See
End dam & End Frame	Std. Drwg. CSB-2-56, sh. 2
Curb plate	Std. Drwg. CSB-2-56, sh. 3
Rockers & Bolsters	Std. Drwg. RB-1-55
Scuppers	Std. Drwg. CSB-2-56, sh. 3
Railing	Std. Drwg. AR-1-57 (rev. 4-2-62

DEFLECTION & CAMBER	SPAN 1	SPAN 2	SPAN 3	SPAN 4
Weight of Steel	0"	⅛"	⅛"	0"
Remaining D.L.	¼"	⅜"	⅜"	¼"
Vertical Curve	⅝"	1¼"	1¼"	⅝"
Total	7/8"	1¾"	1¾"	7/8"
Required Camber	1"+	1¾"+	1¾"+	1"+

BURGESS & NIPLE – CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BR. NO. GRE-1-0297

SRI UNDER SMITH ROAD

GREENE COUNTY STA. 116+60.13

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	GEW		WGR	8-14-62	

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	INCRM'T	SH'P
SUPERSTRUCTURE					
S601	451	30'-2"	20435		S
S602	580	30'-0"	26135		S
S603	84	33'-0"	4164		S
S501	376	5'-3"	2059		B
S502	451	30'-2"	14190		S
S401	374	3'-10"			B
S402	374	5'-8"			B
RAILING					
R501	136	14'-6"	(Included with Railing for payment)		S
R502	16	11'-9"			S
R503	16	12'-4"			S
REPLACEMENT BARS					
RE11		7'-6"			S
RE10	1	7'-2"			S
RE9	1	6'-10"			S
RE8	1	6'-6"			S
RE7		6'-2"			S
RE6	6	5'-11"			S
RE5	3	5'-7"			S
RE4	1	5'-3"			S
RESP		5'-3"			B

MARK	NO.	LENGTH	WEIGHT	INCRM'T	SH'P		
ABUTMENTS							
A601	50	14'-11"	1120		B		
A501	28	29'-9"	869		S		
A502	12	7'-0"	88		S		
A503	38	8'-0"	317		B		
A504	12	3'-10"	48		B		
A505	70	5'-9"	420		S		
A506	8	9'-6"	79		S		
A507	28	11'-3"	329		S		
A508	12	8'-3"	103		S		
A509	8	14'-6"	121		S		
A510	20	12'-3"	256		S		
A511	24	3'-9"	94		S		
A512	56	5'-6"	321		B		
A513	4	6'-6"	27		B		
A514	4	5'-4"	22		B		
A515	8	12'-9"	106		B		
A516	36	5'-5"	204		B		
A401	48	4'-3"	136		B		
PIERS							
P1001	6	30'-5"	785		B		
P1002	6	31'-5"	811		B		
P1003	6	24'-0"	620		S		
P901	108	6'-6"	2387		B		
P902	108	19'-3"	7069		S		
P801	15	24'-0"	961		S		
P601	180	8'-0"	2163		S		
P501	12	7'-6"	94		B		
P502	132	6'-11"	952		B		

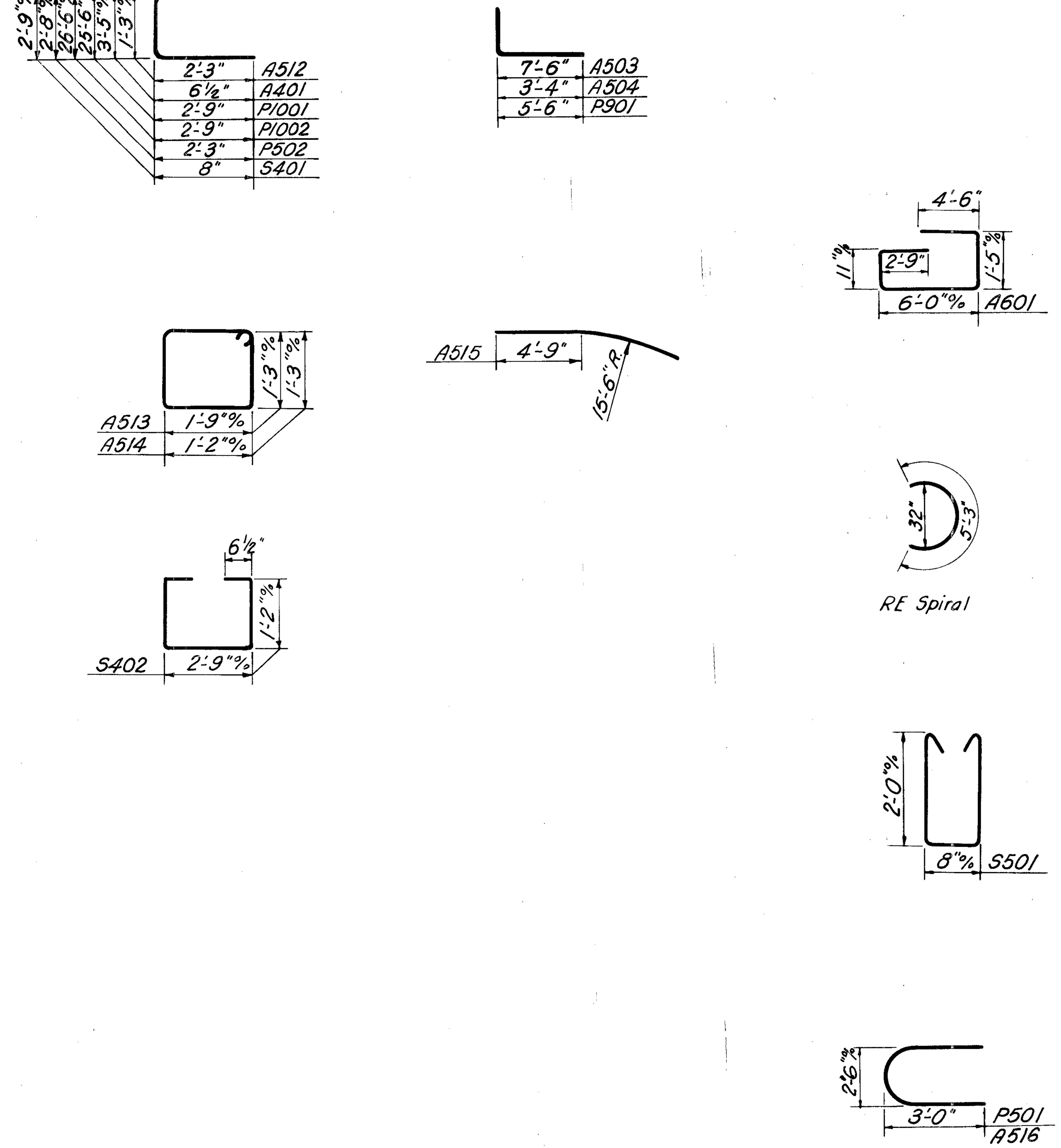
MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SPIRALS								
SP1	9	1/2"φ	32"	16'-6"	4 1/2"	47	4	2736

SPIRAL NOTE

The "Number of Turns" shown in the list for the spirals is the "length" divided by the "pitch" plus 1½ extra turns each for top and bottom of spiral.

Spiral reinforcing shall be of intermediate grade steel, hot rolled without deformations, conforming in other respects to Item S-4.

Four steel channel, tee, or angle spacers, equally spaced along the periphery of the coil, shall be provided, for each spiral. The weight of these spacers, based on 0.68 p.l.f. of spacer, is included in the tabulated weight of the spiral bars.



BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST

BR. NO. GRE.-1-0297

SR1 UNDER SMITH ROAD

GREENE COUNTY STA. 116 + 60.13

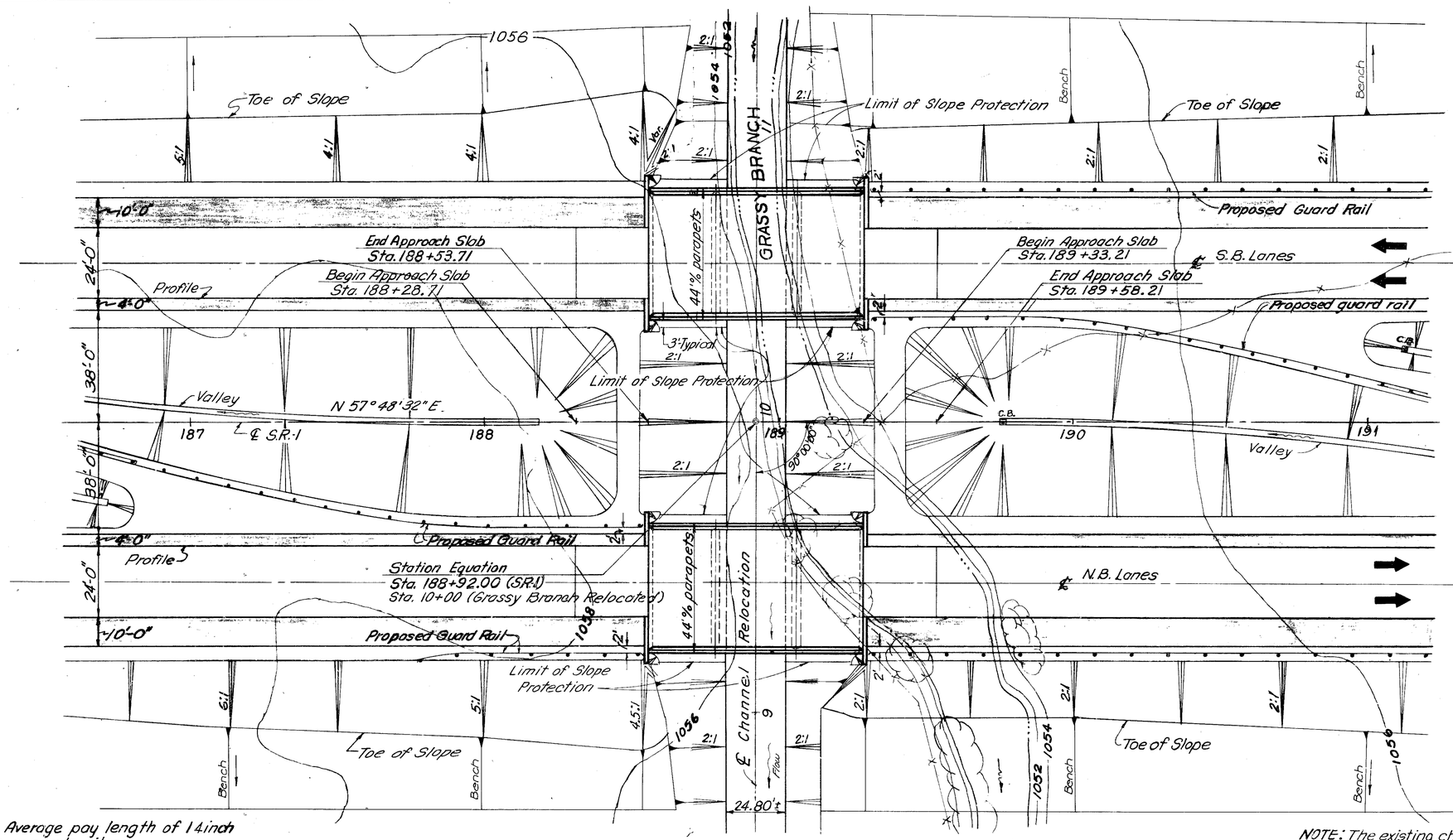
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.A.F.	R.A.F.	W.E.R.	[illegible] 9-14-62	

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

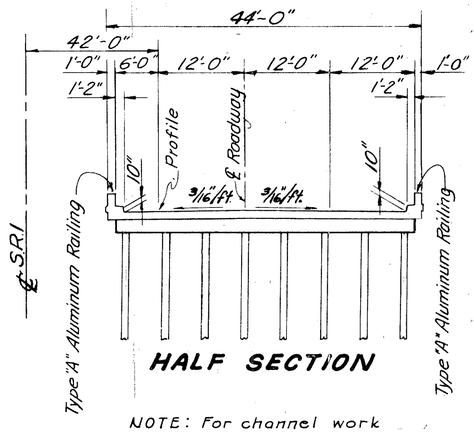
127
162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00



PLAN



HALF SECTION

NOTE: For channel work see sheet 106

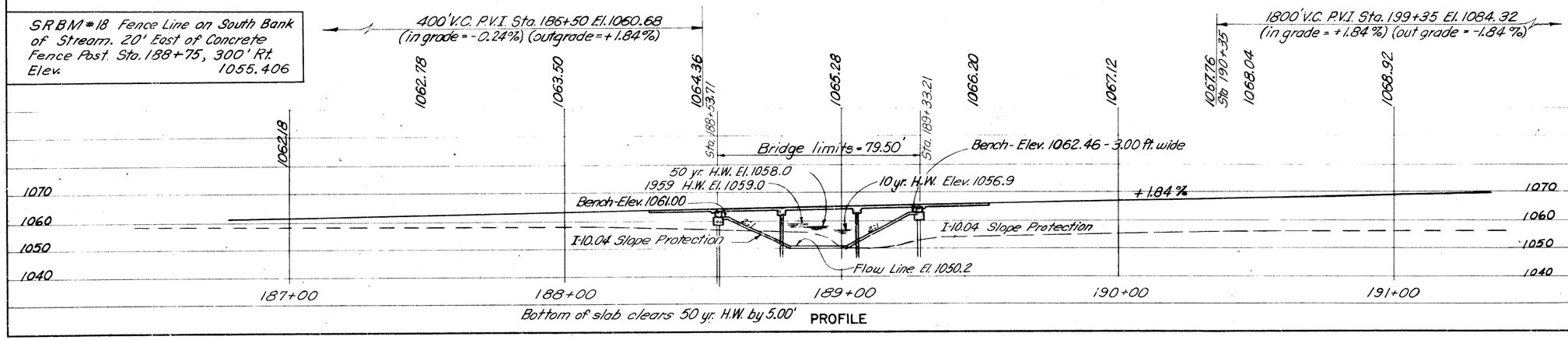
Estimated Average pay length of 14 inch Cast-in-place concrete piles:
Abutments 35'
Piers 50'NB, 45'SB

NOTE: The existing channel is to be fitted and sloped to drain.

* Adequate for AASHO alternate loading

Drainage Area = 6.22 Sq. Miles

PROPOSED STRUCTURE
TYPE 3-Span Continuous Concrete Slab on Capped Pipe Substructure.
SPAN 24.00'-30.00'-24.00' % Bearings.
LOAD FREQUENCY RATING CF=2000(57)*
ROADWAY 42' f-f Parapets
SKEW 0°-00'-00"
WEARING SURFACE 1" Monolithic
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent
SUPERELEVATION None



Bottom of slab clears 50 yr. H.W. by 5.00'

PROFILE

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN
BR. NO. FAY-1-0028 L & R.
SR1 OVER GRASSY BRANCH

SCALE 1" = 20'
FAYETTE COUNTY
STA. 188+53.71
STA. 189+33.21

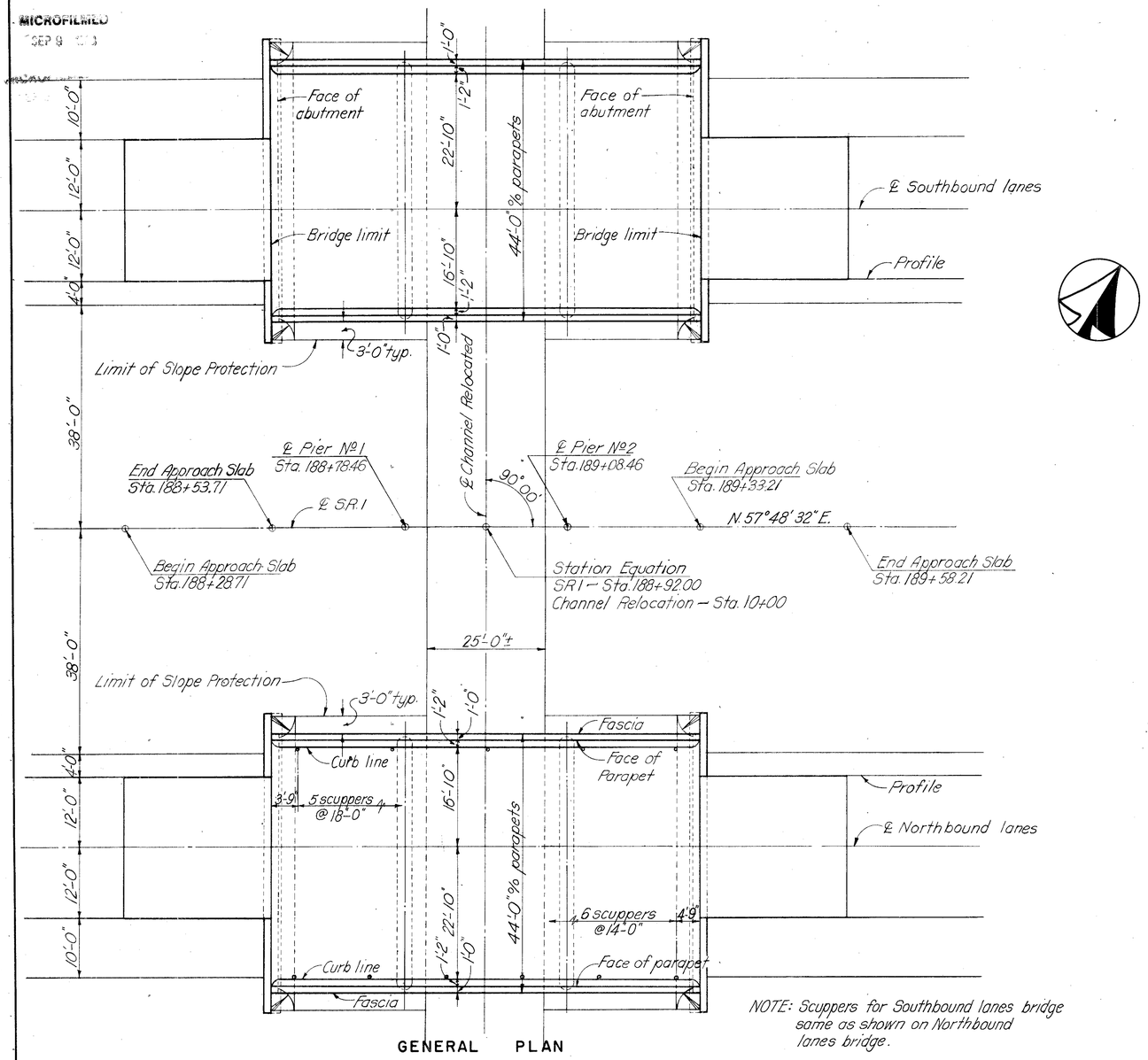
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WCR	WCR		WCR	4-9-62	

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

128
162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00



ESTIMATED QUANTITIES

BR. NO. FAY.-1-0028 L & R. (BOTH BRIDGES)

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L.
E-2	187	Cu.yd.	Unclassified excavation		187		
E-3	2400	Cu.yd.	⊕ Channel excavation				2400
S-1	375	Cu.yd.	Class "C" concrete, superstructure & pier caps	342		33	
S-1	103	Cu.yd.	Class "E" concrete, abutments		103		
S-4	100,587	Lb.	Reinforcing steel	80,529	11,248	8,810	
S-14	318	Lin.ft.	Railing (aluminum rail and supports, concrete parapet)	318			
S-16	Lump	Sum	First test pile				Lump
S-18	2640	Lin.ft.	14" Cast-in-place reinforced concrete piles		1120	1520	
S-29	22	Each	Scuppers, 4" ϕ cast or wrought iron pipe	22			
S-29	23	Cu.yd.	Porous backfill		23		
I-10	640	Sq.yd.	Crushed aggregate slope protection		640		
Special	342	Each	* Water reducing set retarding admixture	342			
I-127	2	Each	⊗ Delineators, Type A-1, Bracket Mounted				2

* See proposal. ⊗ From sheet no. 13
⊕ From sheet no. 13 & 106

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures of the State of Ohio Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings. AS-1-54 rev. 7-5-62, A-1-54 rev. 12-1-54 AR-1-57 rev. 4-2-62, P-1-54 rev. 2-2-59. CS-2-54 sheets 1 & 2 rev. 2-2-59

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will interfere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations

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

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digit are used, and the first two where four are used, indicate the bar size.

EXCAVATION QUANTITY: Includes the removal of fill material required for construction of the abutments and the removal of fill material above the level of the earth bench.

CONSTRUCTION JOINTS: One construction jt. in the bridge slab shall be placed on the transverse centerline of the middle span or 1'-0" off the transverse centerline if necessary to miss railing posts and transverse reinforcing bars. One longitudinal joint, on the centerline of roadway, will be permitted.

SURFACE FINISH OF CONCRETE: The requirements of Sec. 3-1.22, Rubbed Finish, shall apply to the exposed surfaces of the entire superstructure except the top and bottom surfaces of sidewalks and roadways.

CAMBER: Camber of 1/800 of the span shall be provided in each span to allow for dead load deflection. This is the amount of camber required before falsework is released. To obtain this, proper allowance shall be made for the deflection of falsework members.

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

CURBS: Shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to obtain full dead load deflection.

BURGESS & NIPLE – CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

GENERAL PLAN & ELEVATION, GENERAL NOTES & EST. QUANTITIES

BR. NO. FAY-1-0028 L & R.

SR 1 OVER GRASSY BRANCH

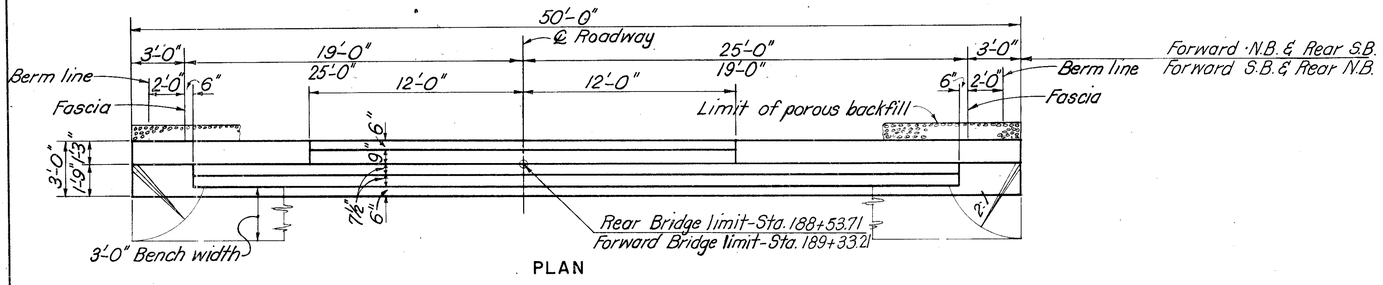
FAYETTE COUNTY

STA. 188+53.71
STA. 189+33.21

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
	R. A. F.		WER	7-25-62	

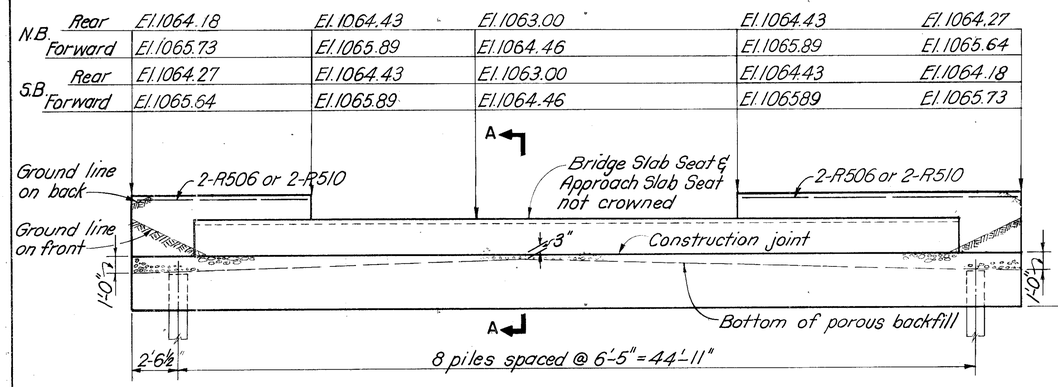
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

129
162

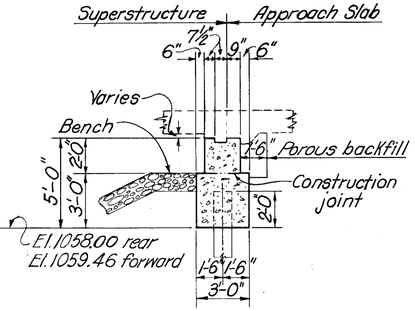


PLAN

N.B. Rear	El. 1064.18	El. 1064.43	El. 1063.00	El. 1064.43	El. 1064.27
N.B. Forward	El. 1065.73	El. 1065.89	El. 1064.46	El. 1065.89	El. 1065.64
S.B. Rear	El. 1064.27	El. 1064.43	El. 1063.00	El. 1064.43	El. 1064.18
S.B. Forward	El. 1065.64	El. 1065.89	El. 1064.46	El. 1065.89	El. 1065.73



ELEVATION
Forward N.B. Shown, others similiar



SECTION A

CAPPED PILE ABUTMENTS

NOTE: For additional details, see Std. Drwg. A-1-54, rev. 12-1-54.

Abutment piles (14 inch cast-in-place concrete piles) shall be driven to a minimum bearing capacity of 24 tons per pile.

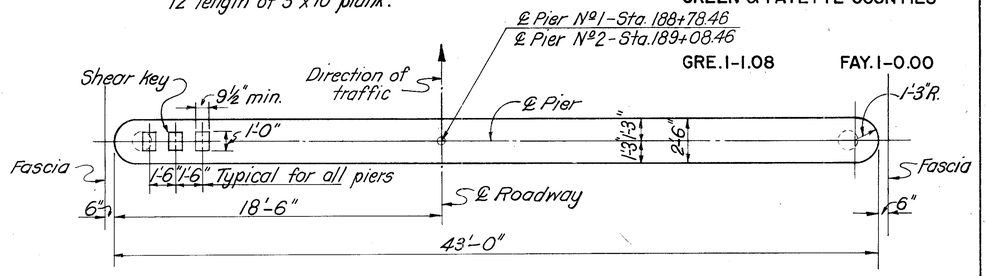
POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes. Excavation therefor, in excess of that required for construction of the footing, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the earth bench after which excavation shall be made for the abutment and piles driven.

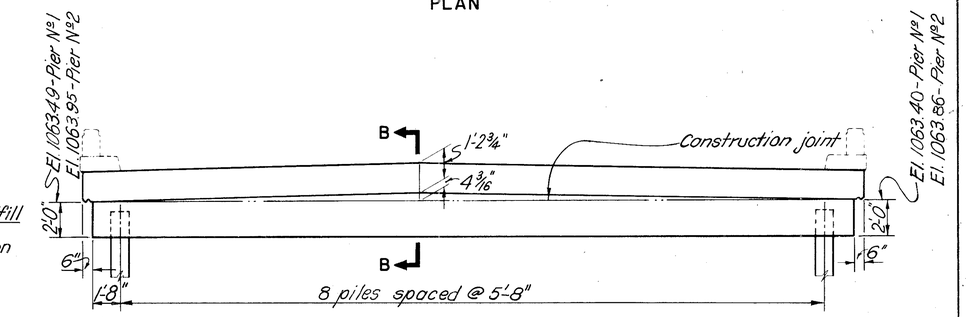
PIER PILE ENCASEMENT as shown on Std. Drwg. Nº P-1-54 may be omitted provided that the tapered portion, if any of all piers piles does not extend above the stream bed or the proposed surface of the ground. If the tapered portion of any pile extends above these limitations, the encasement will be required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

NOTE: Shear keys may be formed with 12" length of 3"x 10" plank.

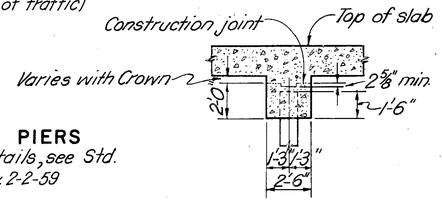
GREEN & FAYETTE COUNTIES



PLAN



ELEVATION
(Looking in the direction of traffic)



SECTION B

CAPPED PILE PIERS

NOTE: For additional details, see Std. Drwg. P-1-54, rev. 2-2-59

Pier Piles (14 inch cast-in-place concrete piles) shall be driven to a minimum bearing capacity of 32 tons per pile.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER & ABUTMENT DETAILS

BR. NO. FAY.-1-0028 R.& L.

SR1 OVER GRASSY BRANCH

FAYETTE COUNTY STA. 188+53.71 189+33.21

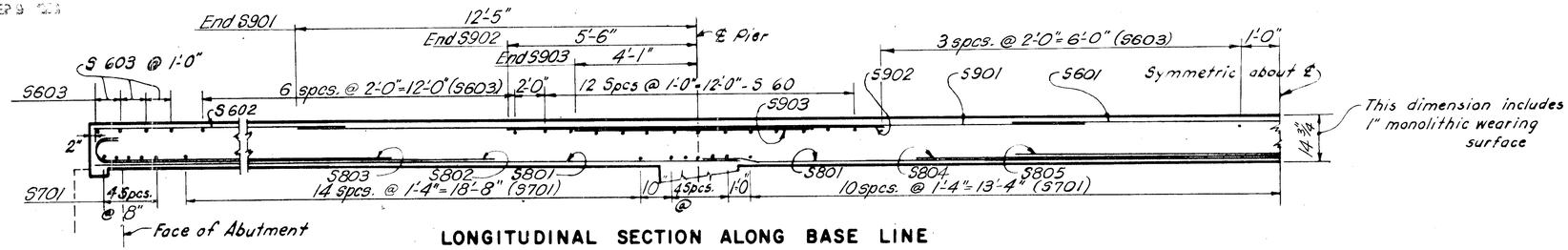
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
HWS	R A F		WCK	HWS 7-25-62	

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

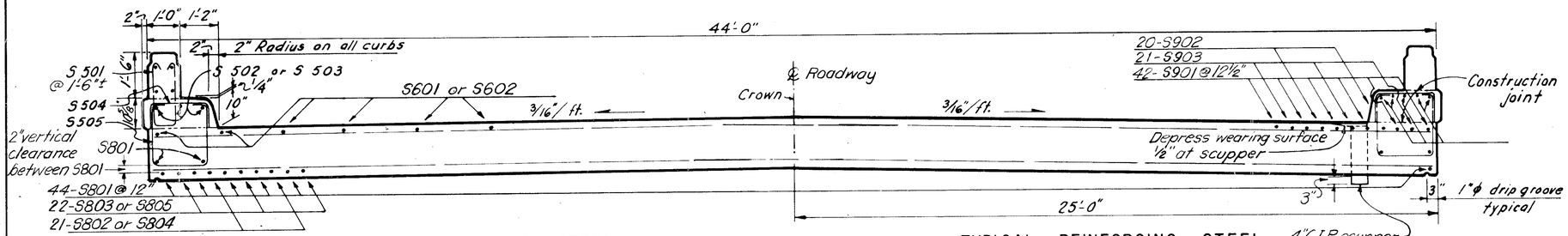
130
162

GREENE & FAYETTE COUNTIES

GRE.I-1,08 FAY.I-0.00



LONGITUDINAL SECTION ALONG BASE LINE

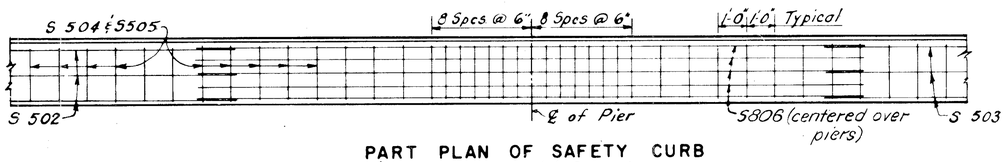


TYPICAL REINFORCING STEEL AT CENTER LINE OF SPAN

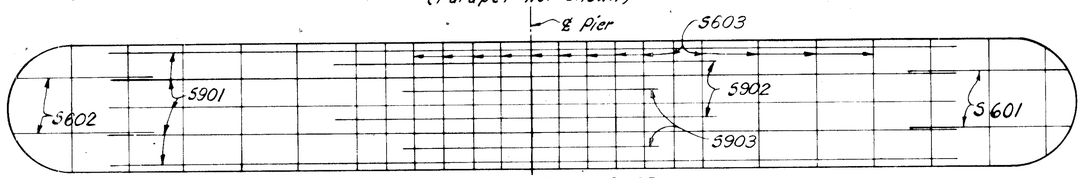
TYPICAL REINFORCING STEEL OVER PIER

(Looking in the direction of traffic)

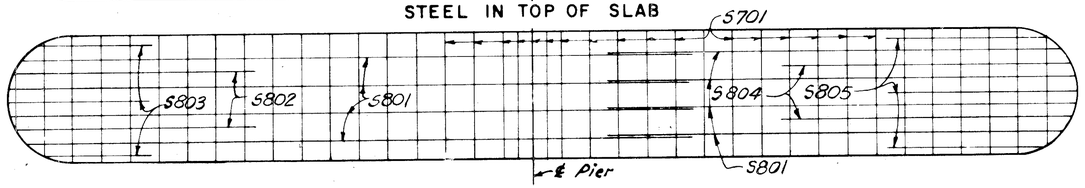
Notes:
1. Place longitudinal steel approximately parallel to Base Line of Roadway.
2. Place transverse steel parallel to ℄ of pier ℄ abutment.
3. Reinforcing Steel clearance: where two bars of different size are lapped, the clearance requirement for the larger bar shall also apply to the smaller bar. Reinforcing steel clearance from face of concrete shall be 1½" for #11 bars, 1¼" for #9 and #10 bars and 1" for all smaller bars. The above clearances do not include monolithic wearing surface.
4. S603 & S701 bars may be furnished in one length as shown or in pairs of equal length, lapped thirty diameters at the centerline of roadway, or they may be furnished in pairs of different length in order to place the lap beyond a longitudinal construction joint at the centerline of roadway, at the option of the contractor. Determination of the pay quantity will be according to the number and length of bars as shown on the project plans.



PART PLAN OF SAFETY CURB
(Parapet Not Shown)



STEEL IN TOP OF SLAB



STEEL IN BOTTOM OF SLAB

NOTE: For additional details see Std. Drwg. Nº CS-2-54, rev. 2-2-59, sheet 1&2.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BR. NO. FAY-1-0028 R&L

SR 1 OVER GRASSY BRANCH

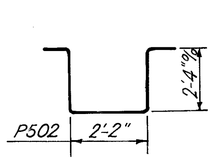
FAYETTE COUNTY STA. 188+53.71 / 189+33.21

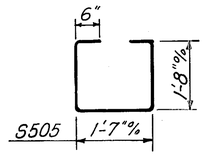
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
AVR	GEW		WCR	AVR 7-25-62	

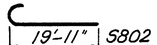
(BOTH BRIDGES) REINFORCING STEEL LIST BR. NO. FAY-1-0028 L. & R.

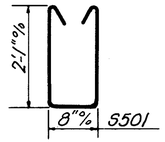
MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
SUPERSTRUCTURE					
S901	168	23'-4"	13,328		S
S902	80	10'-5"	2,833		S
S903	84	8'-2"	2,332		S
S801	264	28'-1"	19,795		S
S802	84	21'-0"	4,710		B
S803	88	18'-4"	4,308		B
S804	42	19'-6"	2,187		S
S805	44	15'-10"	1,860		S
S806	40	16'-6"	1,762		S
S701	140	43'-6"	12,448		S
S601	42	12'-0"	757		S
S602	84	14'-1"	1,777		S
S603	112	43'-6"	7,318		S
S501	216	5'-5"	1,220		B
S502	24	17'-11"	449		S
S503	12	16'-8"	209		S
S504	396	2'-6"	1,033		B
S505	396	5'-4"	2,203		B
RAILING					
B501	64	14'-8"	Included with Railing for Payment		S
B502	32	9'-5"			S
REPLACEMENT BARS					
RE11		7'-6"			S
RE10	1	7'-2"			S
RE9	3	6'-10"			S
RE8	4	6'-6"			S
RE7	2	6'-2"			S
RE6	1	5'-11"			S
RE5	2	5'-7"			S
RE4	1	5'-3"			S

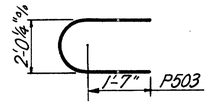
MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
ABUTMENTS					
R1001	32	22'-11"	3,156		S
R801	32	26'-1"	2,229		S
R501	32	25'-7"	854		S
R502	312	6'-7"	2,142		B
R503	16	22'-1"	369		S
R504	48	5'-4"	267		S
R505	64	7'-11"	528		B
R506	8	7'-8"	64		S
R507	32	4'-11"	164		S
R508	56	6'-8"	389		B
R509	56	8'-5"	492		B
R510	8	15'-8"	131		S
R401	128	5'-5"	463		B
PIERS					
P1001	16	43'-6"	2,995		S
P901	16	40'-6"	2,203		S
P701	192	4'-0"	1,570		S
P501	8	40'-6"	338		S
P502	136	8'-0"	1,135		B
P503	16	6'-4"	106		B
P401	128	5'-5"	463		B

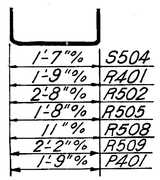












FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

131
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST

BR. NO. FAY-1-0028 L & R.

SRI OVER GRASSY BRANCH

FAYETTE COUNTY STA. 188+53.71 TO STA. 189+33.21

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
HVR	R.A.F.	R.A.F.	WCR	HVR 7-25-62	

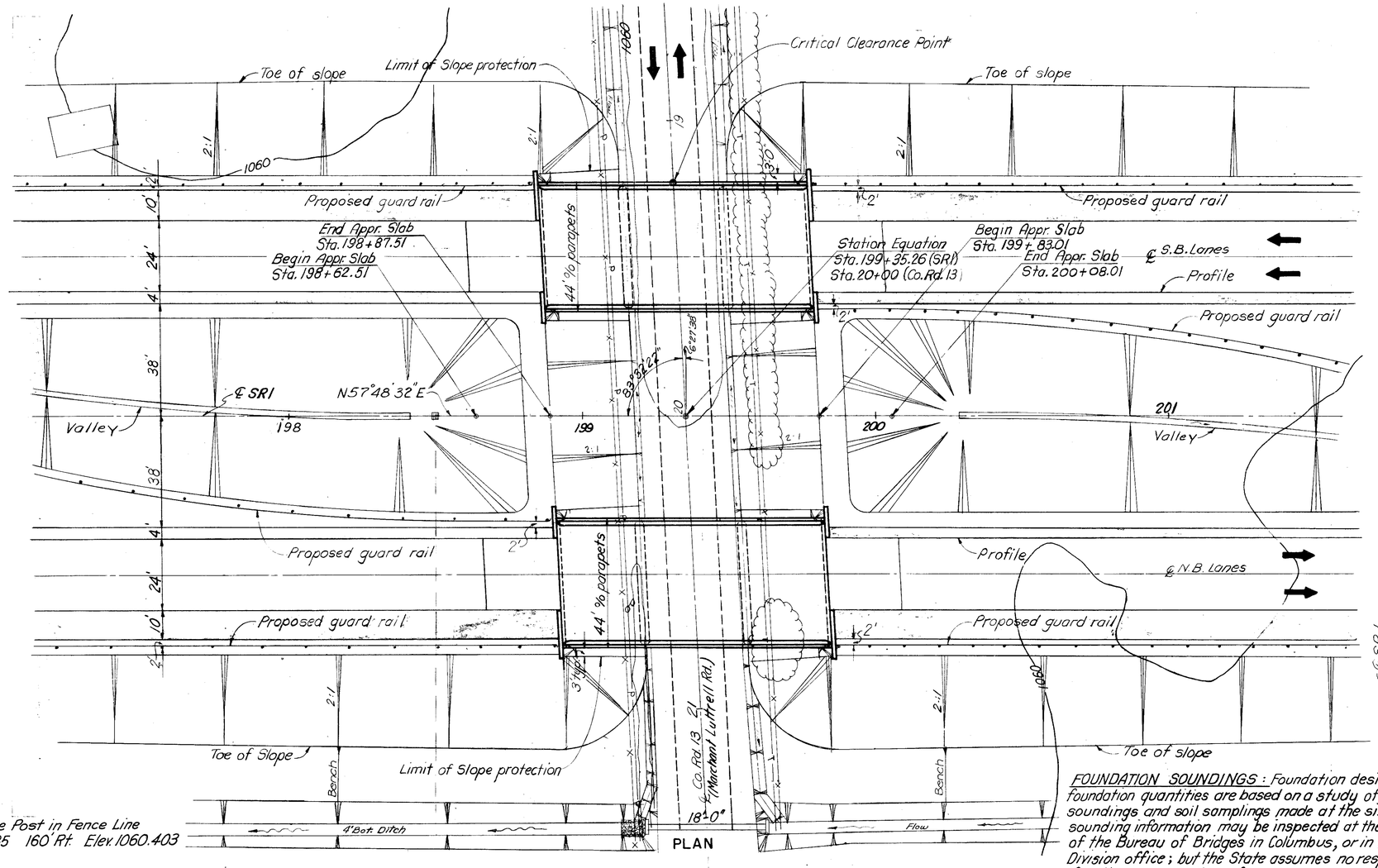
MICROFILMED
SEP 9 1971

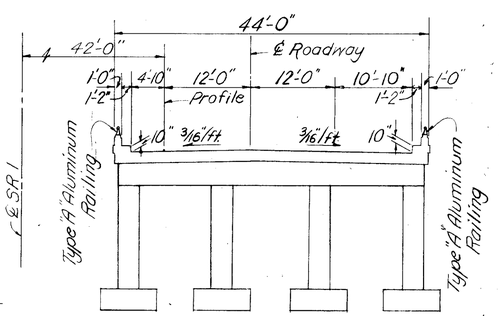
FED. ROAD DIV. NO.	STATE	FED. AID PROJ. NO.	TYPE FUNDS
2	OHIO		

132/162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 **FAY. 1-0.00**

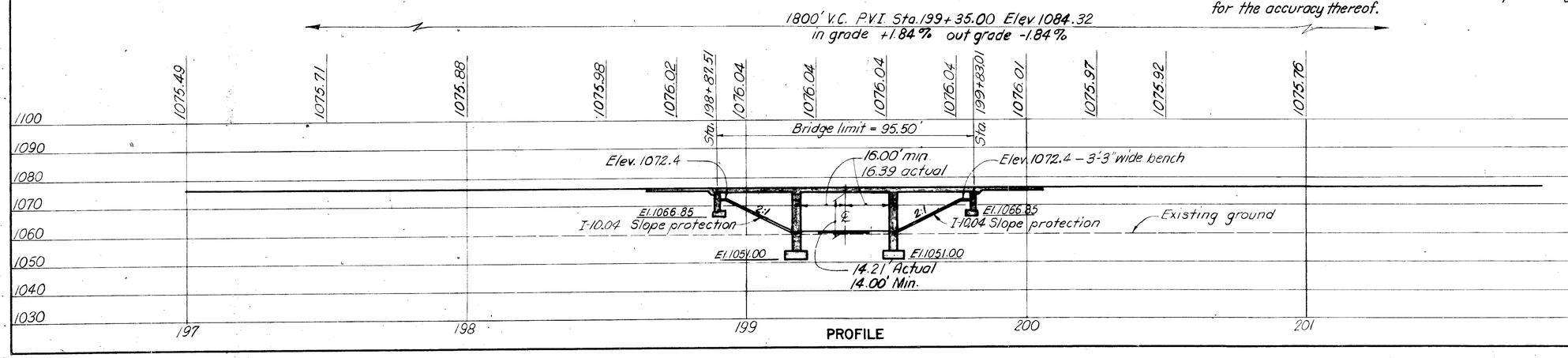




HALF-SECTION

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

*Adequate for AASHO Alternate loading



PROPOSED STRUCTURE
TYPE 3 Span Continuous Concrete Slab on reinforced concrete substructure
SPAN 29.00'-36.00'-29.00' % Bearings
LOAD FREQUENCY RATING CF 2000 (57) *
ROADWAY 42' f/f parapets
SKEW 6°27'38" R.F.
WEARING SURFACE 1" Monolithic
APPROACH SLABS AS-1-54 (25' long)
ALIGNMENT Tangent
SUPERELEVATION None

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN

BR. NO. FAY-1-0047 L & R.
SR1 OVER CO. ROAD 13

SCALE 1"=20'
FAYETTE COUNTY
STA. 198+87.51 / 199+83.01

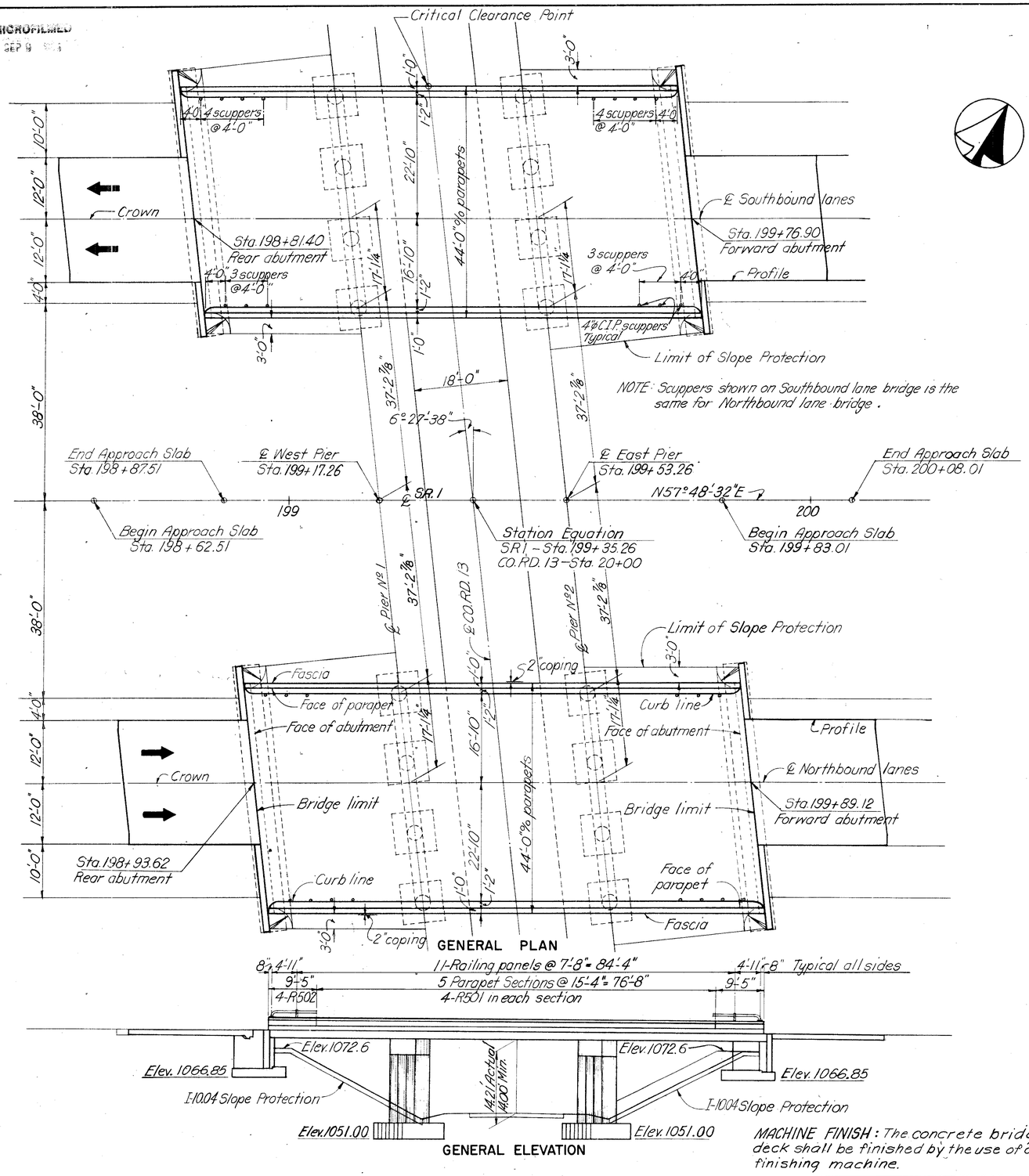
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WCR	R. P. K.		WCR	WCR 4-9-62	

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

133
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00



GENERAL PLAN

GENERAL ELEVATION

MACHINE FINISH: The concrete bridge deck shall be finished by the use of a finishing machine.

ESTIMATED QUANTITIES

BR. NO. FAY-1-0047 L.& R. (BOTH BRIDGES)

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L.
E-2	Lump	Sum	Cofferdams, cribs and sheeting				Lump
E-2	874	Cu.yd.	Unclassified excavation		393	481	
S-1	116	Cu.yd.	Class "C" concrete, Pier caps & columns			116	
S-1	462	Cu.yd.	Class "C" concrete, superstructure	462			
S-1	170	Cu.yd.	Class "E" concrete, abutments		170		
S-1	100	Cu.yd.	Class "E" concrete, Pier footings			100	
S-4	153,679	Lb.	Reinforcing steel	115,183	6245	32,251	
S-14	382	Lin.ft.	Railing (aluminum rail and supports, concrete parapet)	382			
S-29	28	Each	Scuppers, 4" ϕ cast or wrought iron pipe	28			
S-29	71	Cu.yd.	Porous backfill		71		
I-10	722	Sq.yd.	Crushed aggregate slope protection				722
Special	462	Each	* Water reducing set retarding admixture	462			
I-127	2	Each	⊗ Delineators, Type A-1, Bracket Mounted				2

* See proposal.

⊗ From sheet no. 13

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures of the State of Ohio Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings.
AS-1-54 rev. 7-5-62
AR-1-57 rev. 4-2-62
CS-2-54 rev. 2-2-59 Sh. 1&2

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will intefere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill-thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments, after a waiting period of 30 days, the excavation shall be made for the abutment and for the earth bench and for piers that are set in the filled area.

SURFACE FINISH OF CONCRETE: The requirements of Sec. 511.22, Rubbed finish, shall apply to the exposed concrete surfaces of the entire superstructure except the top and bottom surfaces of sidewalks and roadways also the entire surface of the piers and abutments except bridge slab seats, and the face of spill-through abutments beneath the slab.

EXCAVATION QUANTITY: includes the removal of fill material required for construction of the abutments and the removal of fill material above the level of the earth bench.

CONSTRUCTION JOINTS: One construction jt in the bridge slab shall be placed on the transverse centerline of the middle span or 1'-0" off the transverse centerline if necessary to miss railing posts and transverse reinforcing bars. One longitudinal joint, on the centerline of roadway, will be permitted.

CAMBER: Camber of 1/800 of the span shall be provided in each span to allow for dead load deflection. This is the amount of camber required before falsework is released. To obtain this, proper allowance shall be made for the deflection of falsework members.

CURBS: Shall be placed after the shoring under the slab has been released sufficiently to permit the slab spans to obtain full dead load deflection.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

GENERAL PLAN & ELEVATION, GENERAL NOTES & EST. QUANTITIES

BR. NO. FAY-1-0047 L & R.

SR 1 OVER CO. ROAD 13

FAYETTE COUNTY STA. 198+87.51 STA. 199+83.01

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	RAF	RAF	WCR	AHR 7-25-62	

REINFORCING STEEL LIST

BR. NO. FAY-1-0047 L.&R. (BOTH BRIDGES)

MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
SUPERSTRUCTURE					
S1001	160	27'-2"	18,706		S
S1002	76	12'-11"	4224		S
S1003	76	8'-11"	2916		S
S901	288	34'-2"	33456		S
S902	88	24'-1"	7206		B
S903	84	21'-11"	6259		B
S904	44	23'-4"	3491		S
S905	42	18'-2"	2594		S
S906	40	20'-8"	2811		S
S701	184	43'-6"	16,360		S
S601	40	13'-10"	831		S
S602	80	17'-4"	2083		S
S603	126	43'-6"	8232		S
S501	256	5'-3"	1402		B
S502	24	20'-10"	521		S
S503	12	18'-6"	232		S
S504	444	2'-8"	1235		B
S505	444	5'-8"	2624		B

MARK	NO.	LENGTH	WEIGHT	INCR'MT	SH'P
ABUTMENTS					
A601	24	22'-5"	808		S
A501	16	25'-10"	431		S
A502	80	7'-4"	612		B
A503	64	6'-9"	451		B
A504	24	22'-3"	557		S
A505	12	26'-2"	328		S
A506	32	4'-6"	150		S
A507	24	9'-8"	242		S
A508	24	15'-9"	394		S
A509	48	6'-8"	334		S
A510	56	8'-10"	516		B
A511	56	10'-3"	599		B
A512	64	12'-4"	823		B
PIERS					
P1001	16	43'-6"	2995		S
P901	192	20'-3"	13,219		S
P902	192	6'-6"	4243		B
P903	16	40'-0"	2176		S
P601	256	7'-9"	2982		S
P501	84	9'-3"	810		B
P502	8	40'-0"	334		S
P503	16	7'-6"	125		B

MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SPIRALS								
SP1	16	½"	32"	18'-5"	4½"	52	4	5387

RAILING					
R501	40	15'-0"	Included with Railing (2) payment		S
R502	16	9'-1"			S

REPLACEMENT BARS					
RE11		7'-6"			S
RE10	3	7'-2"			S
RE 9	8	6'-10"			S
RE 8		6'-6"			S
RE 7	2	6'-2"			S
RE 6	2	5'-11"			S
RE 5	2	5'-7"			S
RE 4		5'-3"			S
RE SP	1	5'-3"			B

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digit are used, and the first two where four are used, indicate the bar size.

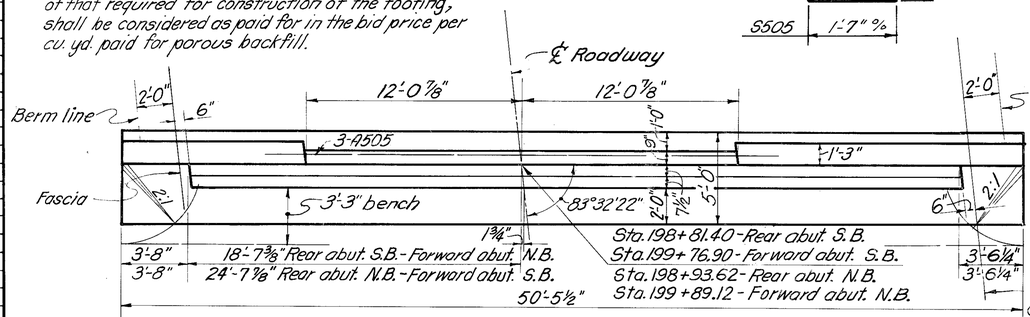
SPIRAL NOTE

The "Number of Turns" shown in the list for the spirals is the "length" divided by the "pitch" plus 1½ extra turns each for top and bottom of spiral.

Spiral reinforcing shall be of intermediate grade steel, hot rolled without deformations, conforming in other respects to Item S-4.

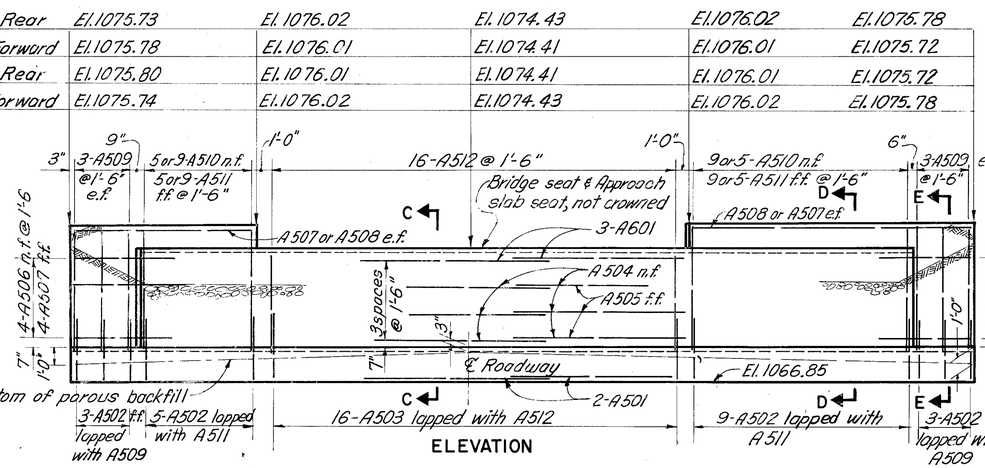
Four steel channel, tee, or angle spacers, equally spaced along the periphery of the coil, shall be provided, for each spiral. The weight of these spacers, based on 0.68 p.l.f. of spacer, is included in the tabulated weight of the spiral bars.

POROUS BACKFILL shall extend upward to the approach slab and to the surface of the earth shoulders, and outward to the surface of the embankment slopes. Excavation therefor, in excess of that required for construction of the footing, shall be considered as paid for in the bid price per cu. yd. paid for porous backfill.

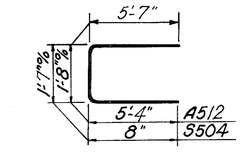


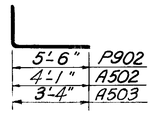
PLAN

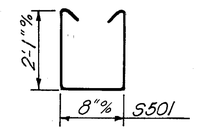
N.B. Rear	El. 1075.73	El. 1076.02	El. 1074.43	El. 1076.02	El. 1075.78
N.B. Forward	El. 1075.78	El. 1076.01	El. 1074.41	El. 1076.01	El. 1075.72
S.B. Rear	El. 1075.80	El. 1076.01	El. 1074.41	El. 1076.01	El. 1075.72
S.B. Forward	El. 1075.74	El. 1076.02	El. 1074.43	El. 1076.02	El. 1075.78

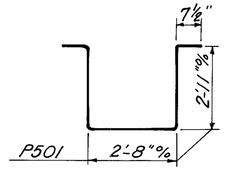


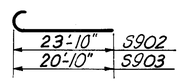
ELEVATION

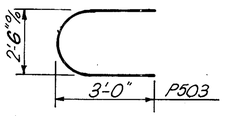


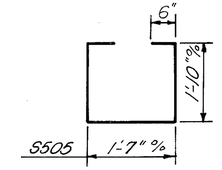


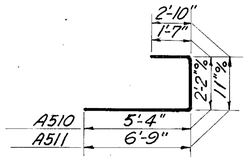


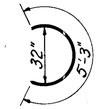




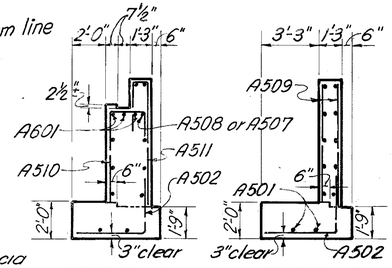


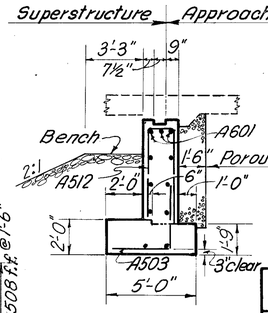






RE Spiral





SECTION C

Maximum design soil pressure = 1.1 Tons p.s.f.

Note: S.B. - Rear Abutment same as N.B. - Forward Abutment, S.B. Forward Abutment same as N.B. - Rear Abutment except as noted.

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

134 / 162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST & ABUTMENT DETAILS

BR. NO. FAY-1-0047 L.&R.

SR1 OVER CO. ROAD 13

FAYETTE COUNTY STA. 198+87.51 / 199+83.01

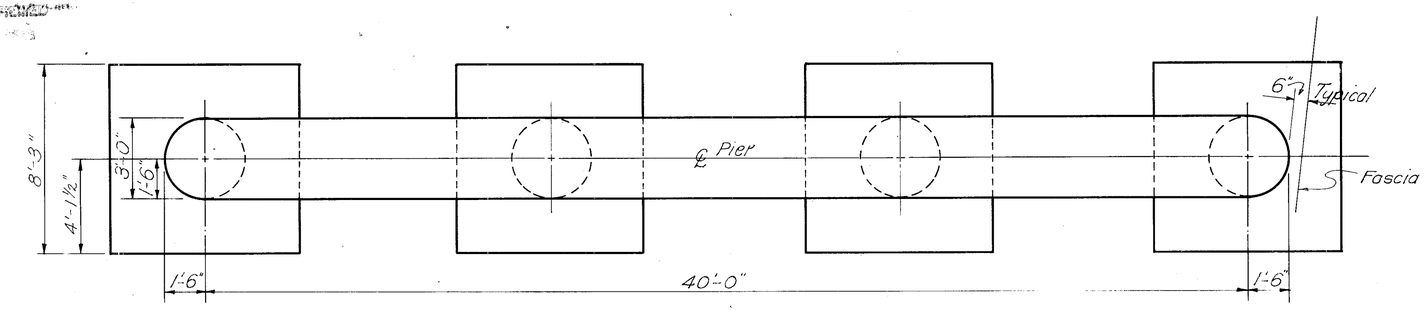
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.R.F.	R.A.F.	WLR	7-25-62	

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

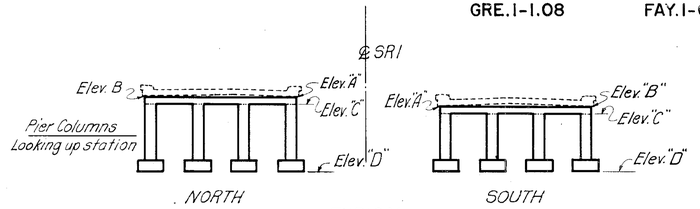
135
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

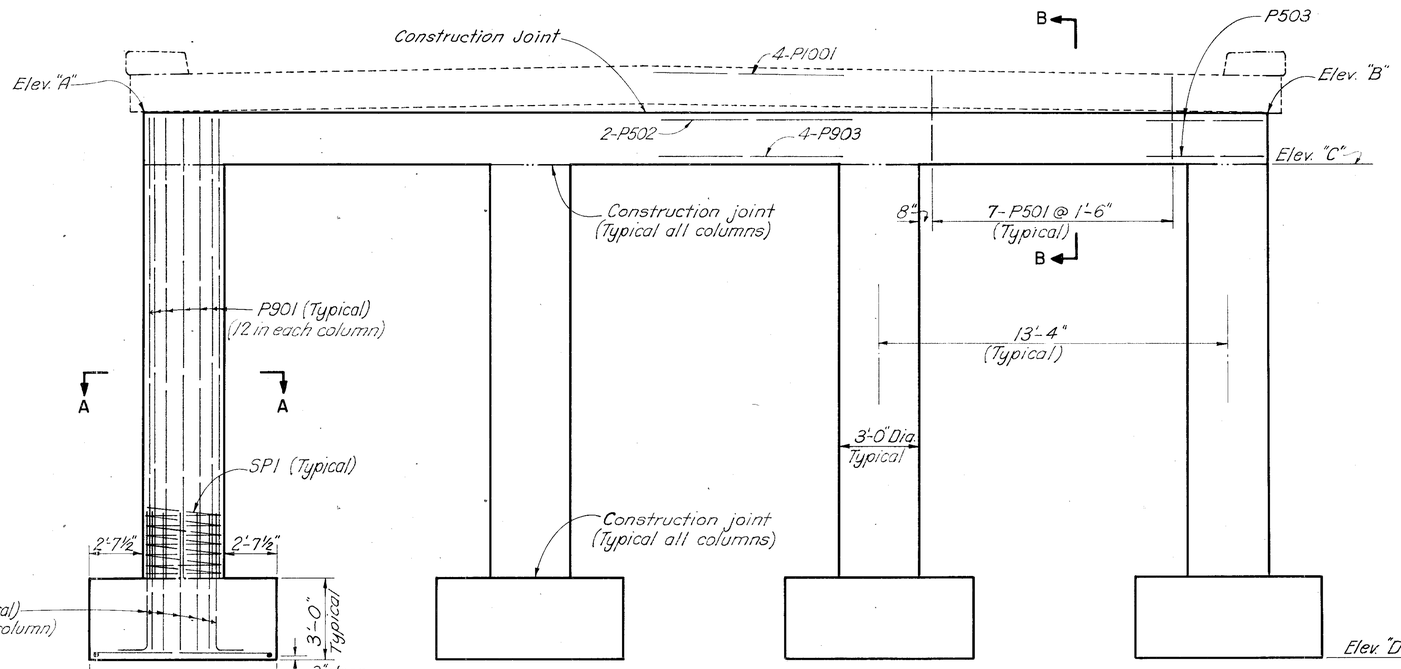


PLAN

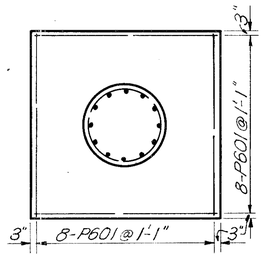


TYPICAL
PIER LAYOUT
VIEW
(Looking up station)

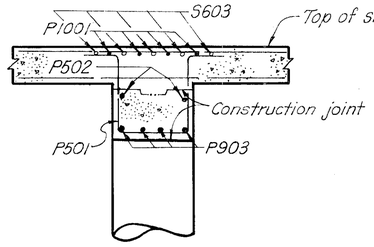
PIER ELEVATIONS					LENGTH OF COLUMN
PIER 1	A	B	C	D	
North	1074.54	1074.44	1072.44	1051.00	18'-5¼"
South	1074.54	1074.45	1072.45	1051.00	18'-5⅜"
PIER 2	A	B	C	D	
North	1074.54	1074.45	1072.45	1051.00	18'-5⅜"
South	1074.54	1074.44	1072.44	1051.00	18'-5¼"



ELEVATION



SECTION A
(Typical all footings)



SECTION B

Maximum Design Soil Pressure = 2.5 tons per square foot.

For location of piers see sheet 133.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

PIER DETAILS

BR. NO. FAY.-1-0047 R&L.

SR1 OVER CO. ROAD 13

FAYETTE COUNTY STA. 198 + 87.51 / 199 + 83.01

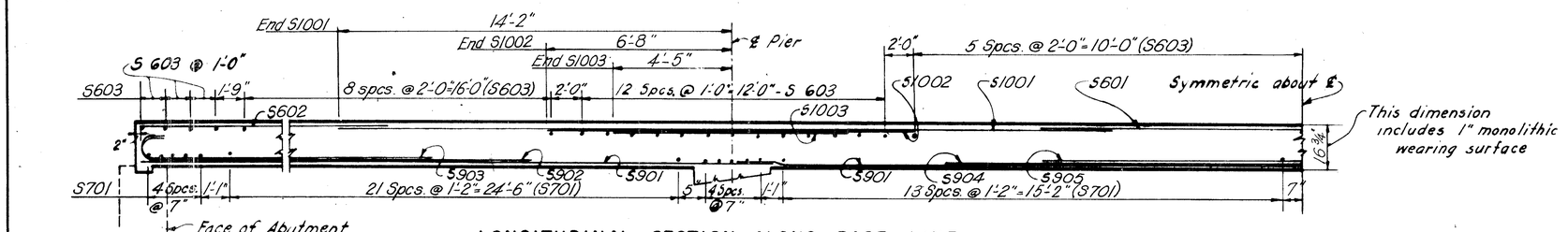
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L M K	R.A.F.	R.A.F.	W&R	W&R 7-25-62	

FED ROAD DIV NO	STATE	PROJ NO	TYPE FUNDS
2	OHIO		

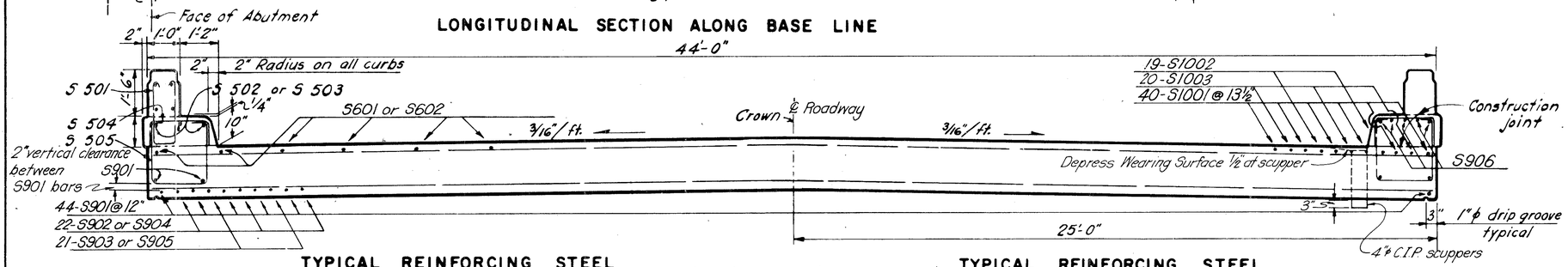
136
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00



LONGITUDINAL SECTION ALONG BASE LINE

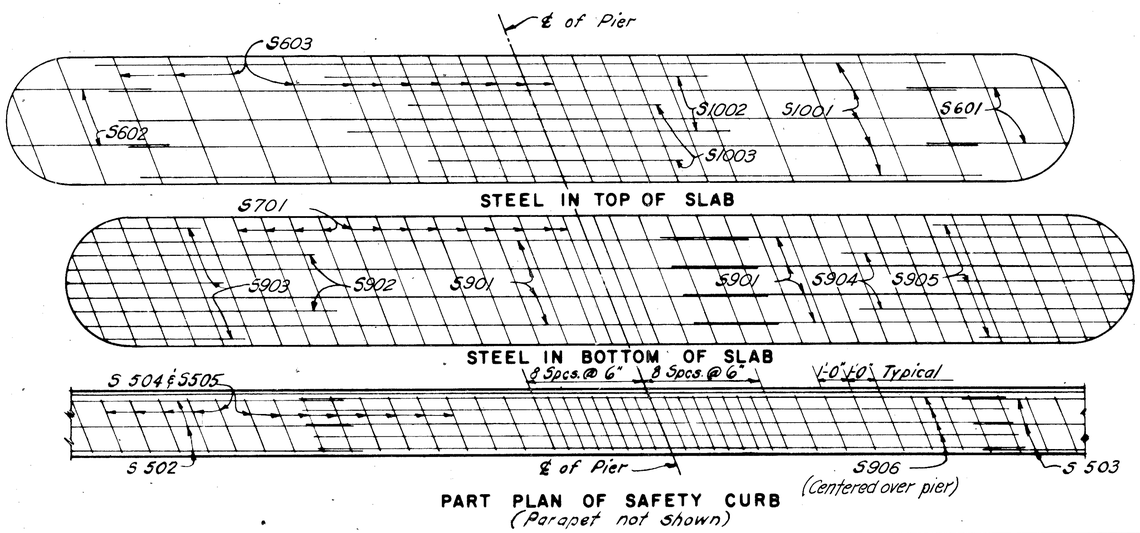


TYPICAL REINFORCING STEEL AT CENTER LINE OF SPAN

(Looking in the direction of traffic)

TYPICAL REINFORCING STEEL OVER PIER

Notes:
1. Place longitudinal steel approximately parallel to Base Line of Roadway.
2. Place transverse steel parallel to ℄ of pier ℄ abutment.
3. Reinforcing steel clearance: where two bars of different size are lapped, the clearance requirement for the larger bar shall also apply to the smaller bar. Reinforcing steel clearance from face of concrete shall be 1½" for #11 bars, 1¼" for #9 and #10 bars and 1" for all smaller bars. The above clearances do not include monolithic wearing surface.
4. S601 & S701 bars may be furnished in one length as shown or in pairs of equal length, lapped thirty diameters at the centerline of roadway, or they may be furnished in pairs of different length in order to place the lap beyond a longitudinal construction joint at the centerline of roadway, at the option of the contractor. Determination of the pay quantity will be according to the number and length of bars as shown on the project plans.



PART PLAN OF SAFETY CURB
(Parapet not shown)

NOTE: For additional details see Standard Drawing Nº CS-2-54 sh. 1 & 2.

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS

BR. NO. FAY-1-0047 L&R.

SR1 OVER COUNTY ROAD 13

FAYETTE COUNTY STA. 198+87.51 / 199+83.01

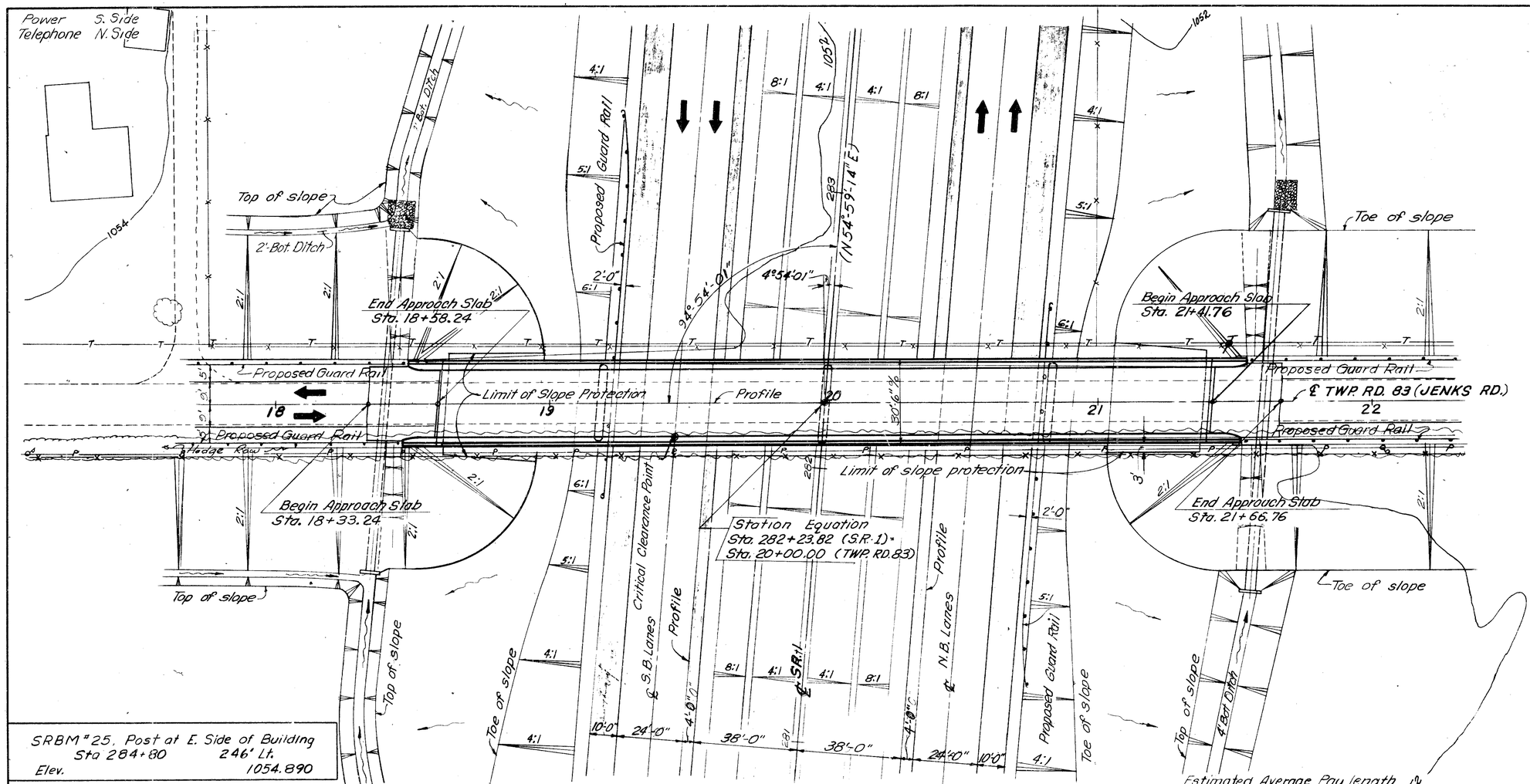
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	GEW		WER	7-25-62	

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

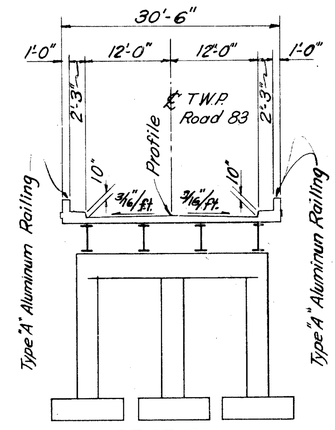
137
162

GREENE & FAYETTE COUNTIES

GRE. 1-1 08 FAY. 1-0.00

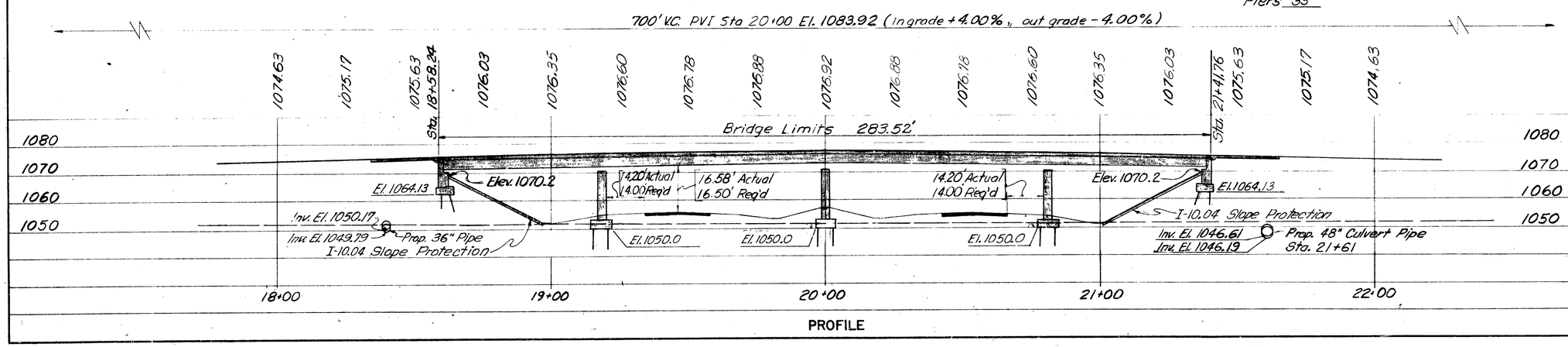


PLAN



SECTION

SRBM "25, Post at E. Side of Building
Sta 284+80 246' Lt.
Elev. 1054.890



PROFILE

PROPOSED STRUCTURE
TYPE 4-Span Continuous Steel Beam on Reinforced Concrete Substructure
SPAN 57.50'-82.00'-82.00'-57.50' C to Bearing
LOAD FREQUENCY RATING C.F. = 130(57)
ROADWAY 24' f/p of 2'-3" Safety curbs
SKEW 4°54'01" L.F.
WEARING SURFACE 3/4" Monolithic
APPROACH SLABS Special (25' Long)
ALIGNMENT Tangent
SUPERELEVATION None

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SITE PLAN

BR. NO. FAY.-1-0205
SR 1 UNDER TWP. RD. 83

SCALE 1" = 20'
FAYETTE COUNTY STA. 282+23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
WCR	WSR		DBR	4-9-62	

ESTIMATED QUANTITIES

ITEM NO.	TOTAL	UNIT	DESCRIPTION	SUPER.	ABUT.	PIERS	GEN'L
E-2	251	Cu.yd.	Unclassified excavation		170	81	
S-1	260	Cu.yd.	Class "C" concrete, superstructure	260			
S-1	62	Cu.yd.	Class "C" concrete, piers above footers			62	
S-1	76	Cu.yd.	Class "E" concrete, abutment, walls		76		
S-1	136	Cu.yd.	Class "E" concrete, footings		55	81	
S-4	100,597	Lb.	Reinforcing steel	70,235	7053	23,309	
S-7	237,000	Lb.	Structural steel	237,000			
S-8	237,000	Lb.	Field painting of structural steel	237,000			
S-14	613	Lin.ft.	Railing (aluminum rail and supports, concrete parapets	562	51		
S-18	2575	Lin.Ft.	12 inch cast-in-place reinforced concrete piles.		1000	1575	
S-16	Lump	sum	First Test Pile				Lump
Special	260	each	Water reducing-set retarding admixture *	260			
S-29	28	Cu.yd.	Porous backfill		28		
S-29	8	each	Scuppers	8			
I-10	348	Sq.yd.	Crushed aggregate slope protection				348

* See proposal

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

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GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

DESIGN SPECIFICATIONS: This structure conforms to the requirements of "Design Specifications for Highway Structures" of the State of Ohio, Department of Highways, dated 9-1-57, together with revisions thereof.

REFERENCE: Reference shall be made to Standard Drawings

AR-1-57 rev. 4-2-62
RB-1-55 rev. 2-2-59
CSB-2-56 rev. 2-2-59, sh. 2&3

UTILITIES: The Contractor shall provide and maintain adequate protection to prevent damage to existing utilities. Any utility facilities encountered at the site of the work which will interfere with portions of the finished expressway or structures will be removed or relocated by others, unless otherwise shown. The Contractor shall coordinate his operations with the work of the utility owners or others who may be making the relocations and shall notify the owners of the utilities of his schedule sufficiently in advance to permit them to make the necessary alterations.

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

BAR SIZE: Bar size is indicated in the bar mark. The first digit where three digits are used, and the first two where four are used, indicate the bar size number.

EMBANKMENT PROCEDURE: The embankment shall be placed and compacted up to the finished spill thru slope and to the level of the subgrade for a distance of 200 feet back of the abutments after a waiting period of 30 days, the excavation shall be made for the abutment.

EXCAVATION QUANTITY includes the removal of fill material between the top of the earth slope and the bottom of the abutment crossbeam.

SURFACE FINISH OF CONCRETE: The requirements of Sec. 5-1.22, Rubbed Finish, shall apply to the exposed surfaces of the entire superstructure except the top and bottom surfaces of sidewalks and roadways.

MACHINE FINISH The concrete bridge deck shall be finished by the use of a finishing machine.

SHEET LEAD shall conform to the requirements of ASTM Designation B 29 without restriction to the Common Desilverized type.

APPROACH SLAB DETAILS: See page 107.

DECK PLACING PROCEDURE: In placing the deck concrete, construction joints will be permitted, parallel to the transverse reinforcing steel and near the middle of any span. Because of the flow of curing water from the surface of previously-placed deck concrete, the sequence of pours shall be upgrade, starting at the lowest end (or ends) on the inclined grade or on the vertical curve.

POROUS BACKFILL: 2 ft. thick, full length of abutment and wings, shall extend up to the underside of the approach slab.

WELDING of structural steel shall be class "A" except as otherwise shown. Welds shown as field welds may, at the option of the Contractor, be made in the shop. Class "B" welds are shown thus B

BEAM WEB WELDS: Butt welds in webs of beams may have convex reinforcement in accordance with Sect. 5-7.22. Finishing flush by grinding is not required.

CONTINUOUS BEAM SPLICES: If beams having depths differing by more than 1/8" are to be spliced by butt welding, the depth of the smaller-depth beam shall be increased by splitting the web longitudinally at a distance of 1 1/2" below the bottom of the top flange and for a distance of 1 1/2" below the bottom of the top flange and for a distance sufficient to allow the flange to be bent up at a slope of not more than 3/8" per foot, after which the split in the web shall be completely welded with full depth penetration and ground flush.

LEGEND: n.f. = near face
f.f. = far face
e.f. = each face

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL NOTES AND ESTIMATED QUANTITIES

BR. NO. FAY.-1-0205

SR1 UNDER TWP. RD. 83

FAYETTE COUNTY STA. 282+23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L.M.K.	R.A.F.	R.A.F.	WBR	7-27-62	

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

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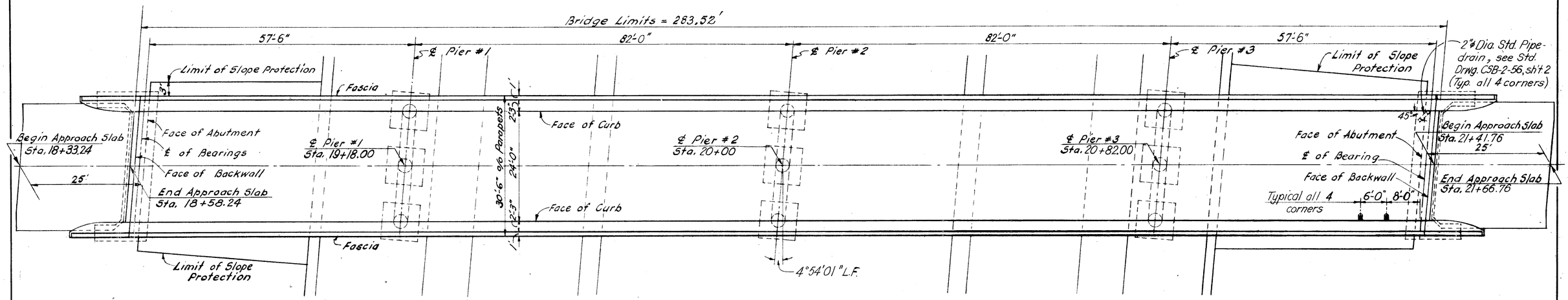
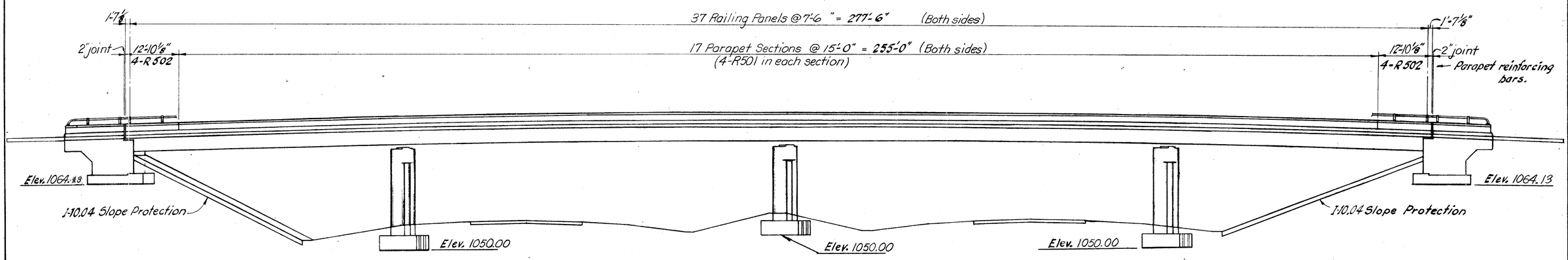
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00



GENERAL PLAN



GENERAL ELEVATION
(Piling not shown)

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

GENERAL PLAN AND ELEVATION

BR. NO. FAY.-1-0205

SR1 UNDER TWP. RD. 83

FAYETTE COUNTY STA. 282+23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	GEW		WCR	HVS 7-27-62	

(B) BR. NOS. 3, 15

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

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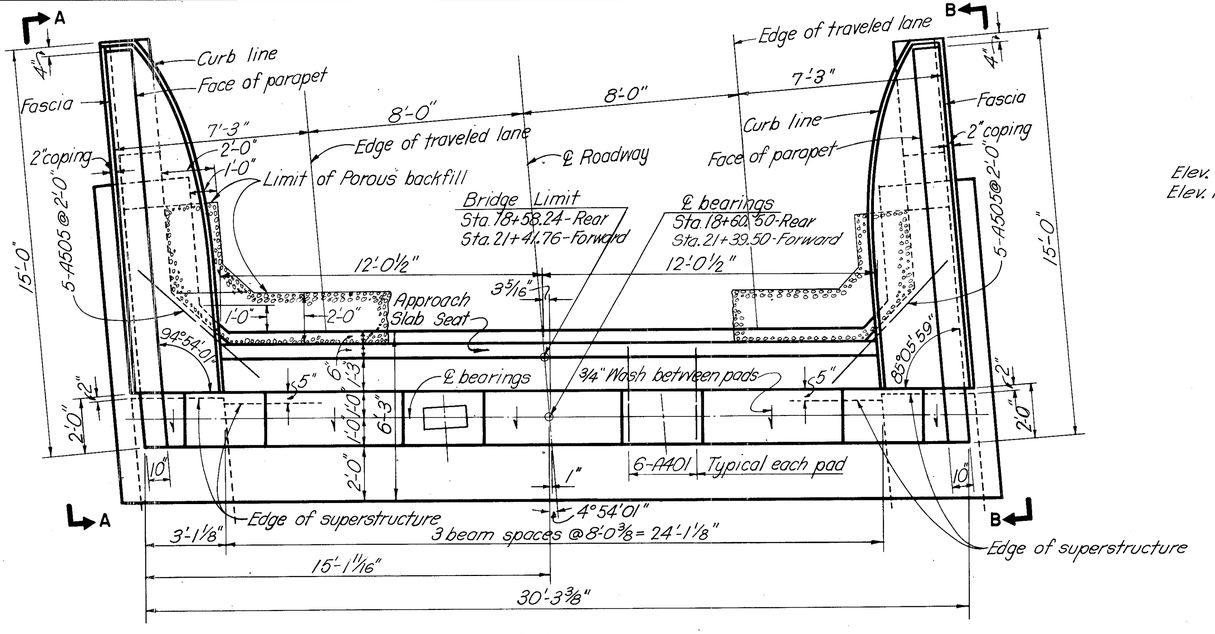
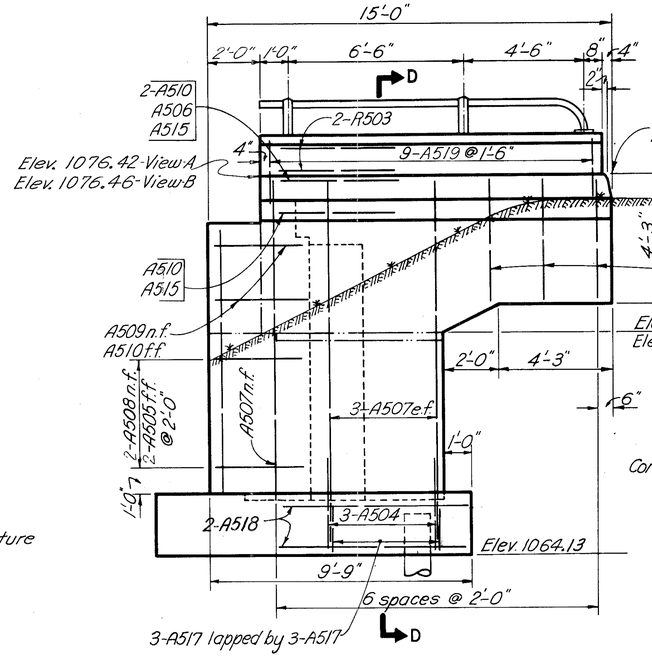
162

GREENE & FAYETTE COUNTIES

GRE.I-1.08 FAY.I-0.00

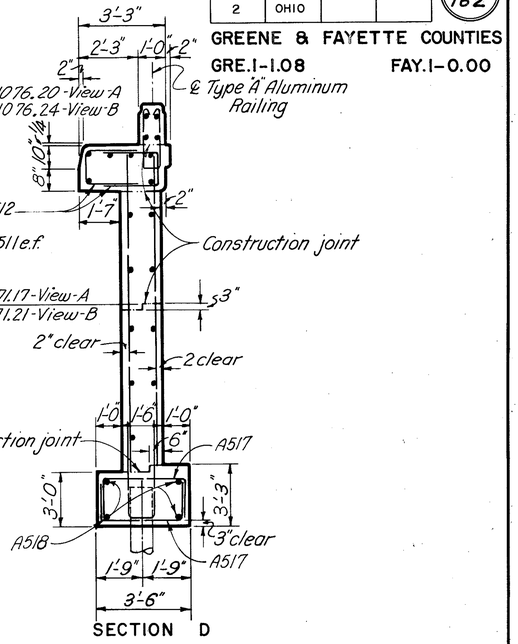


PLAN

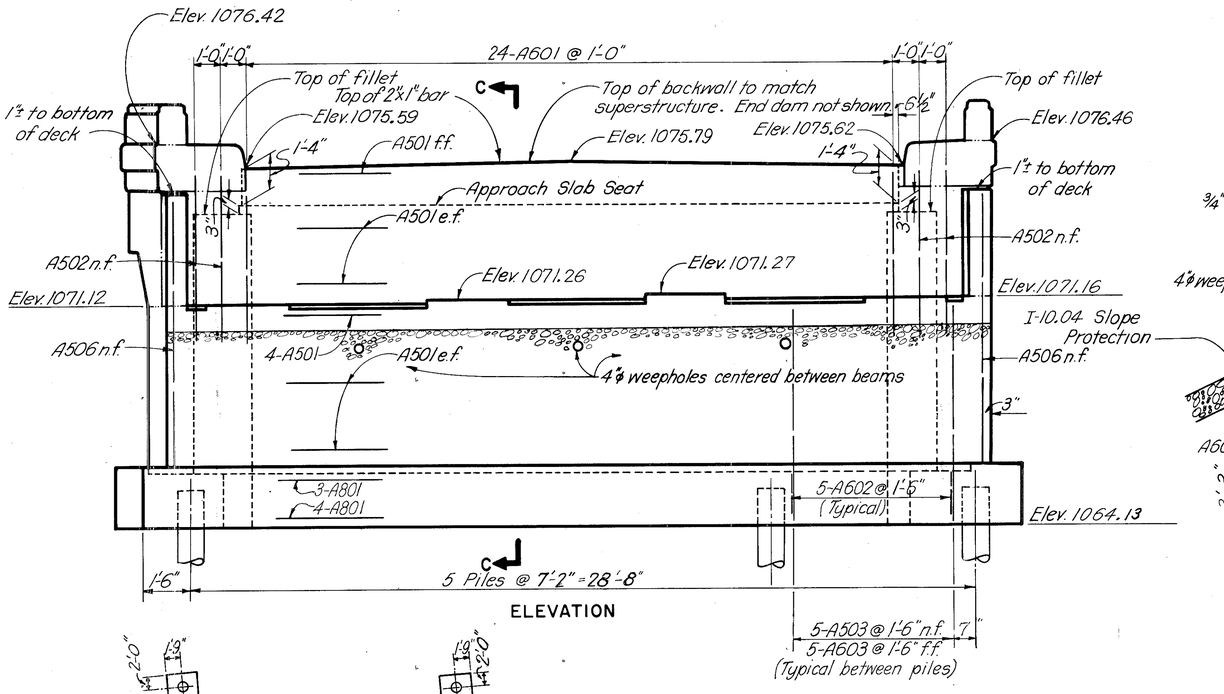


VIEW B

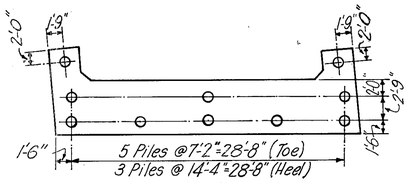
(VIEW A OPP. HAND)



SECTION D



ELEVATION



PILING LAYOUT

Note: All Piling in Toe of footing battered 4:1

SECTION C

WING CURB DETAILS

NOTE: For End Dam Details see Std. Drwg. CSB-2-56, sheet 2..

For Curb Plate Details see Std. Drwg. CSB-2-56, sheet 3.

Abutment piles shall be driven to a minimum bearing capacity of 25 tons per pile.

At the Contractors option, the piles may be prebored.

BURGESS & NIPLE—CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

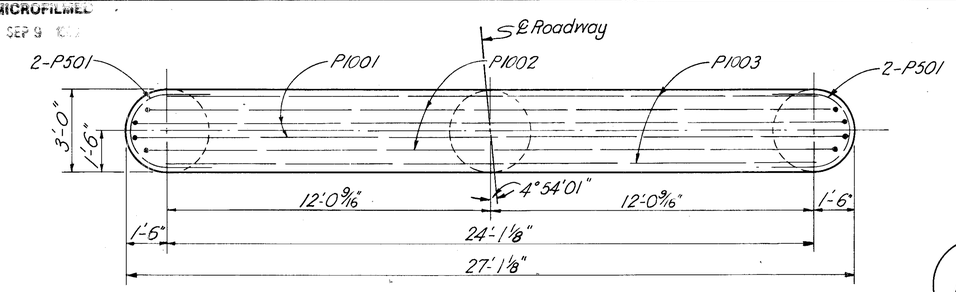
ABUTMENT DETAILS

BR. NO. FAY.-1-0205

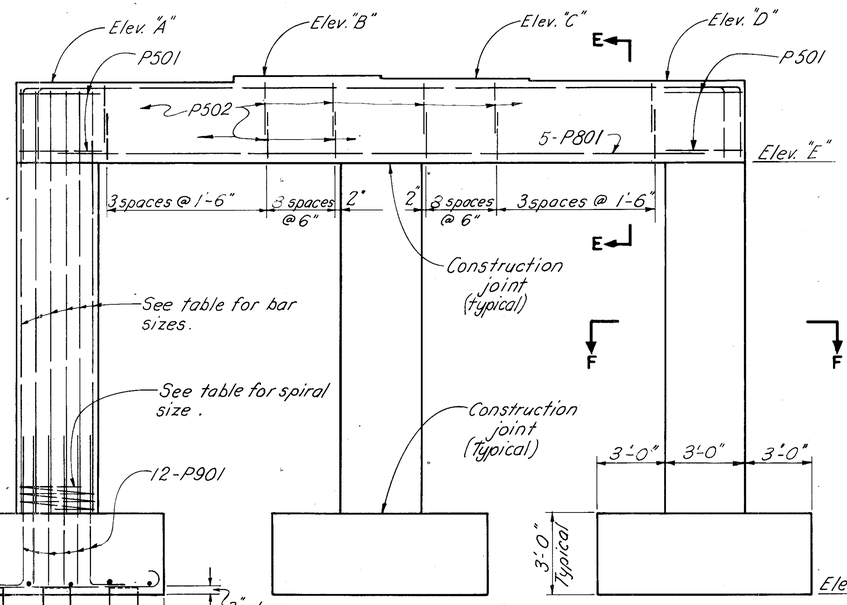
SRI UNDER TWP. RD. 83

FAYETTE COUNTY STA. 282+23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
L M K	R A E		WBR	HVB	7-27-62	

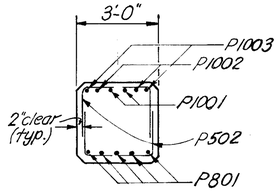


PLAN



ELEVATION
(Looking up station)

SECTION F



SECTION E

PIER ELEVATIONS

Elevation	A	B	C	D	E	F	Column Steel Re-Steel	Column Steel Spiral	Length of Column
Pier #1	1071.37	1071.49	1071.49	1071.35	1068.35	1050.00	P902	SP1	15'-4 3/16"
Pier #2	1071.64	1071.77	1071.77	1071.64	1068.64	1050.00	P902	SP2	15'-7 1/16"
Pier #3	1071.35	1071.49	1071.49	1071.37	1068.37	1050.00	P902	SP1	15'-4 3/16"

In placing top reinforcing steel in pier #2 special care shall be taken so that it will not interfere with the drilling of anchor bolt holes.

Piling shall be driven to a bearing capacity of 36 tons per pile.

Piling shall be 12 inch cast-in-place reinforced concrete piles.

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

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GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

BURGESS & NIPLE — CONSULTING ENGINEERS
COLUMBUS 12, OHIO

PIER DETAILS

BR. NO. FAY-1-0205

SR1 UNDER TWP. RD. 83

FAYETTE COUNTY STA. 282+23.82

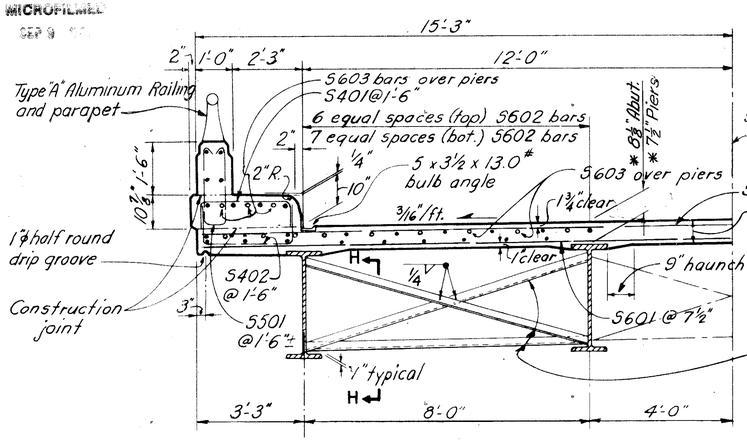
DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
L M K	R. A. F.		WCK	AVB 7-27-62	

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

142/162

GREENE & FAYETTE COUNTIES

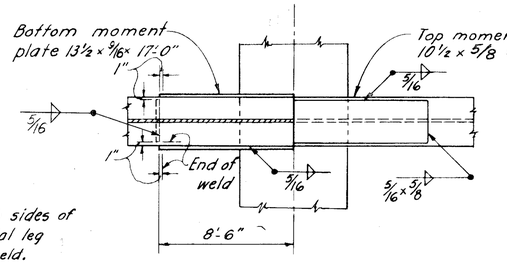
GRE.I-1.08 FAY.I-0.00



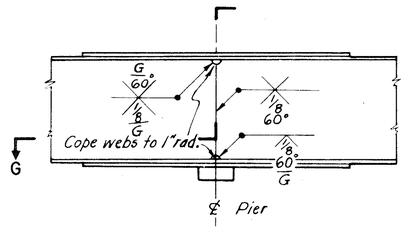
TRANSVERSE HALF SECTION

NOTE: All longitudinal bars S602 except as otherwise shown. Lap S602 bars 1'-11" minimum. 10 bars in a row.

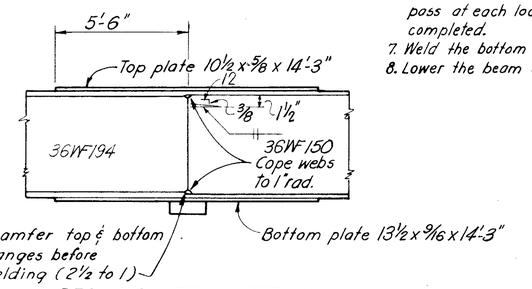
SHOP PAINTING STEEL: The surface preparation of all steel, requiring shop painting as per the PLANS and SPECIFICATIONS, shall be accomplished by blast cleaning or power tool cleaning, except as noted in the specifications regarding the use of chromate primers



SECTION G



BEAM SPLICE DETAILS
PIER NO. 2



BEAM SPLITTING DETAILS
PIER NO. 1 & 3

NOTE: All welding same as shown on Beam Splice Details.

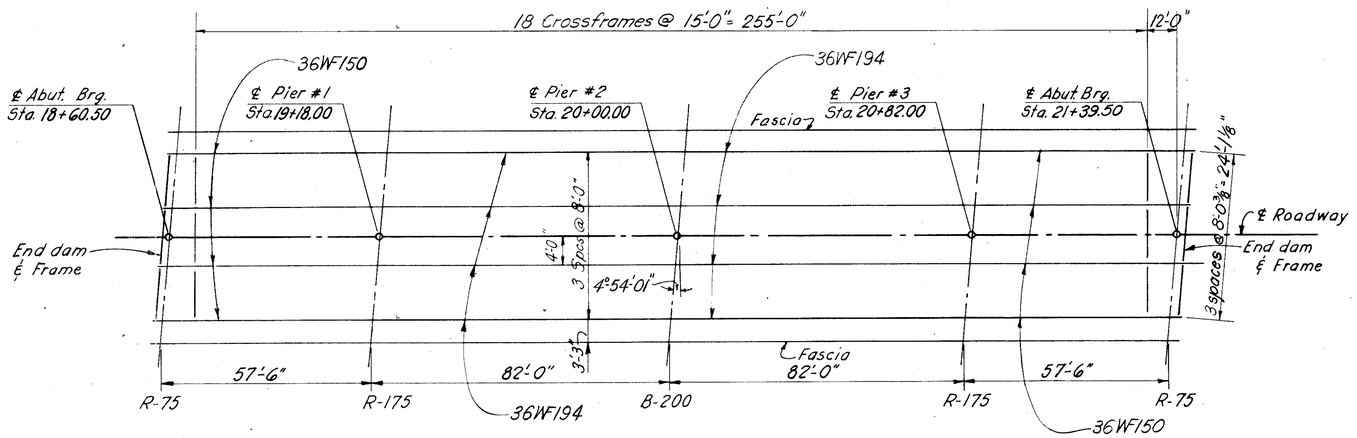
SECTION H

BEAM SPLICE WELDING PROCEDURE:

1. Raise ends of beams at Pier #1 or #3, 3½"
2. Butt-weld the beams at Pier #2, using the following sequence: make one pass on each flange, then two on the web; repeat using one pass at each location until welds are completed.
3. Weld the bottom and top moment plates at Pier #2.
4. Lower ends of beams.
5. Raise ends of beams 5/8" at each abutment.
6. Butt-weld the beams, using the following sequence: make two passes on each flange then two on the web: repeat, using one pass at each location until welds are completed.
7. Weld the bottom and top moment plates.
8. Lower the beam ends to final position.

* This dimension is the nominal dimension. The quantity of deck concrete to be paid for shall be based on this dimension, even though deviation from it may be necessary because the top flange of the beam may not have the exact camber or conformation required to place it parallel to the finished grade.

DECK SLAB HAUNCH: The haunch in the deck slab adjacent to the top of the steel beams, which is shown as 9" wide may vary from this dimension with a minimum of 6" and a maximum of 12". Maximum slope of haunch shall be one vertical to four horizontal. Payment for deck slab concrete shall be based on the 9" width.



STRUCTURAL STEEL LAYOUT

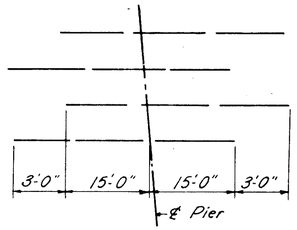


DIAGRAM SHOWING S603 OVER PIERS

For Details of	See
End dam & End Frame	Std. Drwg. CSB-2-56, sh. 2
Curb plate	Std. Drwg. CSB-2-56, sh. 3
Rockers & Bolsters	Std. Drwg. RB-1-55
Scuppers	Std. Drwg. CSB-2-56, sh. 3
Railing	Std. Drwg. AR-1-57 (rev. 4-2-62

DEFLECTION & CAMBER

	SPAN 1	SPAN 2	SPAN 3	SPAN 4
Weight of Steel	1/16"	1/8"	1/8"	1/16"
Remaining D.L.	5/16"	5/8"	5/8"	5/16"
Vertical Curve	9/16"	1⅛"	1⅛"	9/16"
Total	15/16"	1⅞"	1⅞"	15/16"
Required Camber	1"	1 7/8"+	1 7/8"+	1"

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS 12, OHIO

SUPERSTRUCTURE DETAILS
BR. NO. FAY-1-0205
SR1 UNDER TWP. RD. 83
FAYETTE COUNTY STA. 282 + 23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMH	GEW		WCR	7-27-62	

REINFORCING STEEL LIST

MARK	NO.	LENGTH	WEIGHT	INCR'M'T	SH'P
SUPERSTRUCTURE					
S601	476	30'-2"	21568		S
S602	550	29'-9"	24,576		S
S603	90	33'-0"	4461		S
S501	376	5'-5"	2126		B
S502	476	30'-2"	14,978		S
S401	398	3'-10"	1019		B
S402	398	5'-8"	1507		B
RAILING					
R501	136	14'-6"			S
R502	16	12'-6"			S
R503	16	12'-2"			S
			Included with Railing for payment		
REPLACEMENT BARS					
RE11		7'-6"			S
RE10	1	7'-2"			S
RE 9	1	6'-10"			S
RE 8	1	6'-6"			S
RE 7	1	6'-2"			S
RE 6	6	5'-11"			S
RE 5	3	5'-7"			S
RE 4	1	5'-3"			S
RE5P		5'-3"			B

MARK	NO.	LENGTH	WEIGHT	INCR'M'T	SH'P
ABUTMENTS					
A601	48	14'-10"	1069		B
A602	40	6'-11"	416		B
A603	40	11'-8"	701		B
A501	26	29'-11"	811		S
A502	8	7'-0"	58		S
A503	40	7'-6"	313		B
A504	12	10'-1"	126		B
A505	28	5'-9"	168		S
A506	4	6'-7"	27		S
A507	28	8'-1"	236		S
A508	12	8'-3"	103		S
A509	8	14'-6"	121		S
A510	20	12'-3"	256		S
A511	24	3'-9"	94		S
A512	56	5'-3"	307		B
A513	4	6'-3"	26		B
A514	4	4'-10"	20		B
A515	8	12'-9"	106		B
A516	40	6'-3"	261		B
A517	24	7'-1"	177		B
A518	16	7'-7"	127		S
A519	36	5'-5"	204		B
A401	48	4'-3"	136		B
A801	14	31'-10"	1190		S
PIERS					
P1001	6	31'-6"	813		B
P1002	6	30'-6"	787		B
P1003	6	24'-1"	622		S
P1004	108	11'-6"	5344		B
P901	108	6'-7"	2417		B
P902	108	18'-0"	6610		S
P801	15	24'-1"	965		S
P701	270	4'-0"	2208		S
P501	12	7'-6"	94		B
P502	132	6'-9"	929		B

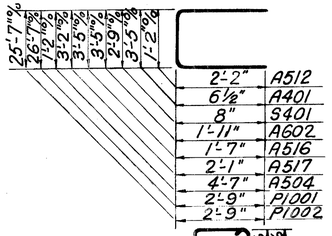
MARK	NO.	SIZE	CORE DIA.	LENGTH	PITCH	TURNS	SPACER	WEIGHT
SPIRALS								
SP1	6	½	32"	15'-0"	4½"	43	4	1667
SP2	3	½	32"	15'-5"	4½"	44	4	853

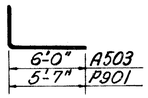
SPIRAL NOTE

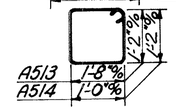
The "Number of Turns" shown in the list for the spirals is the "length" divided by the "pitch" plus 1½ extra turns each for top and bottom of spiral.

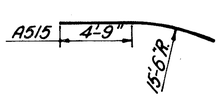
Spiral reinforcing shall be of intermediate grade steel, hot rolled without deformations, conforming in other respects to Item S-4.

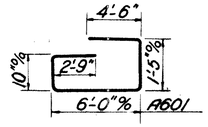
Four steel channel, tee, or angle spacers, equally spaced along the periphery of the coil, shall be provided, for each spiral. The weight of these spacers, based on 0.68 p.l.f. of spacer, is included in the tabulated weight of the spiral bars.

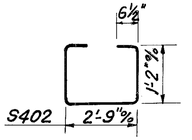


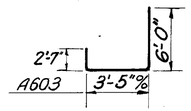


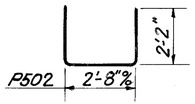


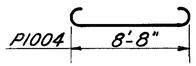




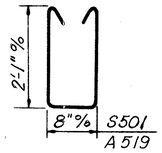


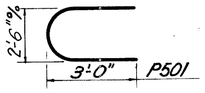






RE Spiral





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

143
162

GREENE & FAYETTE COUNTIES

GRE.1-1.08 FAY.1-0.00

BURGESS & NIPLE - CONSULTING ENGINEERS
COLUMBUS, 12, OHIO

REINFORCING STEEL LIST

BR. NO. FAY.-1-0205

SR1 UNDER TWP. RD. 83

FAYETTE COUNTY STA. 282+23.82

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED DATE	REVISED
LMK	R.A.F.	R.A.F.	WBA	HWB 7-27-62	

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

144/162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS 1/19

LIMITED ACCESS

0 800

MILITARY SURVEY 951

MILITARY SURVEY 936

MILITARY SURVEY 925

POWERS ROAD

SMITH ROAD

WEST BRANCH

BEGIN PROJECT
GRE 1-1.08, FAY 1-0.00
STA. 16+62.74

HARRY E. & AMY H. ANSON

WILBER C. BEARD
44.04 AC (601)

WILBER C. & HAZEL BEARD (603)
116.85 AC

WILLIAM M. HENRY
129.27 AC

JOSEPHINE & JOSEPH A. SHERIDAN
62.64 AC

ALDEN R. & DONNA M. JOHNSTON
203.65 AC. (612)

ELIZABETH J. BEARD
155.59 AC (614)

WILBER C. & HAZEL BEARD
46.65 AC (602E)

LULIA A. CHITTY
66.00 AC (606)
7.50 AC

ALDEN R. JOHNSTON HELEN & DONALD D.
97.51 AC (610)

EARLY
96.67 AC. (611)

BERNICE HUNNECUTT
70.82 AC. (613)

BEGIN R/W ACQUISITION
STA. 21+74.10

P.C.I. 44+62.285

P.T.I. 55+37.366

P.C.2. 145+36.39

P.T.2. 158+29.06

SR 72

ZIMMERMAN ROAD

ORCHARD GROVE ROAD

COUNTY ROAD 82

GREENE COUNTY - JEFFERSON TWP
FAYETTE COUNTY - JASPER TWP

JASPER TWP.

MATCH LINE

MILITARY SURVEY 830

MILITARY SURVEY 836

JEFFERSON TWP

GREENE COUNTY

MILITARY SURVEY 868

FAYETTE COUNTY

MILITARY SURVEY 889

MILITARY SURVEY 2530

GREENE COUNTY

JEFFERSON TWP

CO. RD. 13

JENKS RD

P.T.3 180+04.56

P.C.3 269+46.44

MILITARY SURVEY 3647

BALTIMORE & OHIO R.R.

GARRINGER EDGE ROAD
TWP. RD. 84

RATTLESNAKE CREEK

MILITARY SURVEY 1361

END PROJECT
GRE 1-1.08, FAY 1-0.00
STA. 298+00

END R/W ACQUISITION
STA. 345+68.10

FRED L. GRAY

WILLARD B. HARPER
284.49 AC.

J. BEARD

ELIZABETH

MATCH LINE

GREENE COUNTY
FAYETTE COUNTY

JEFFERSON TWP
JASPER TWP

JACK PURSLEY
362.92 AC (618)

WARD GRAY
251.81 AC. (619)

G. STREETS
49.11 AC (622A)

C.L. FORD
574.10 AC (624)

RALPH A. & DOROTHY WILT
69.58 AC (622)

GOLDIA M. HARPER
67.67 AC (622B)

GRASSY BRANCH

MARCHANT LUTTRELL RD.

TWP RD 83

COUNTY RD. 82

ZIMMERMAN ROAD

ALLEN ROAD (623)

JEFFERSON TWP
JASPER TWP

OCTA

END R/W ACQUISITION
STA. 349+63.88

MILITARY SURVEY 877

FAYETTE COUNTY

MILITARY SURVEY 1253

RIGHT OF WAY SYMBOLS

PROPERTY LINE	℄
R/W WITH LIMITED ACCESS	LA
R/W WITHOUT LIMITED ACCESS	R/W
EXISTING R/W	
R/W FENCE	
BUILDING	
POWERPOLES	
TELEPHONE POLES	
TELEGRAPH POLES	
HIGH VOLTAGE TRANSMISSION POLES	
R/W AND LIMITED ACCESS	LA/RW

PROPERTY MAP

SUMMARY OF ADDITIONAL RIGHT OF WAY REQUIRED

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
601	Wilber C Beard			44.04	1.23		42.81	—		0.44 Ac in existing road
601-T	" "				0.56					
602 WL	Wilber C. & Hazel Beard	180	623	46.65	7.18		0.84	38.40		Residue Lt Landlocked 0.01 Ac in existing road
602	" " "				0.02					0.01 Ac in " "
602 X	" " "				0.21					
603 WL	Wilber C. & Hazel Beard	180	623	116.85	1.02		112.63			
603	" " "				1.31					0.46 Ac in existing road
603 X	" " "				1.89					0.01 Ac in " "
605 WL	Lulia A. Chitty	236	63-66	66.00	16.22		0.65	45.53		Residue Lt Landlocked 0.15 Ac in existing road
605	" "				1.90					0.68 Ac in " "
605 A	" "				0.08					
605 X	" "				0.50					0.01 Ac in " "
605 A-X	" "				1.02					0.03 Ac in " "
605-T	" "				0.24					
605A-T	" "				0.18					
605B-T	" "				0.02					
605C-T	" "				0.10					
605D-T	" "				0.10					
605E-T	" "				0.28					
605-SL	" "				0.05					
605A-SL	" "				0.05					
606	Ida J. Hudson	—	—	7.50	0.19			7.31		0.10 Ac in existing road
* 607 WL	William M. Henry	207	149	129.27	7.05		102.84	18.29		Residue Rt Landlocked
607 X	" "				1.09					
608 WL	Josephine & Joseph A. Sheridan	127	175	62.64	7.95		41.09	11.33		0.10 Ac in existing road
608	" " "				0.48					0.08 Ac in " "
608 A	" " "				0.45					0.08 Ac in " "
608 X	" " "				0.76					0.02 Ac in " "
608 A-X	" " "				0.58					0.01 Ac in " "
610 WL	Alden R. Johnston	325	48	97.51	9.47		0.18	85.78		Residue Lt Landlocked 0.10 Ac in existing road
610 X	" "				0.80					0.02 Ac in " "
610 A-X	" "				1.28					0.01 Ac in " "
610 Y	" "				0.16					
611 WL	Helen & Donald D. Early	229	627	96.67	10.05		—	84.54		0.12 Ac in " "
611	" " "				1.09					0.37 Ac in " "
611 X	" " "				0.99					
611 T					0.06					
* 612 WL	Alden R. & Donna M. Johnston	220	526	203.15	25.91		128.90	45.33		0.12 Ac in existing road
612	" " "				1.65					0.62 Ac in " "
612 A	" " "				0.82					0.32 Ac in " "
612 X	" " "				0.54					
613	Bernice Hunnecutt	—	—	70.82	0.21		—	70.61		0.11 Ac in existing road
614 WL	Elizabeth J. Beard	325	48	155.59	12.13		108.10	33.63		Residue Rt Landlocked
614 X	" "				1.73					

* Indicates that a parcel has been added at the end of the summary.

PARCEL NO.	OWNER	DEED RECORD BOOK	DEED RECORD PAGE	DEED AREA	TO BE ACQUIRED LAND	TO BE ACQUIRED BLDGS	RESIDUE LEFT	RESIDUE RIGHT	SHEET NO.	REMARKS
615 WL	Jack Pursley	85	246	362.92	14.67		49.71	295.49		0.14 Ac in existing road
615 X	" "				2.06					0.02 Ac in " "
615 A-X	" "				0.99					0.02 Ac in " "
615 Y	" "				0.31					
615 TS	" "				0.29					
* 618 WL	Ward Gray	63 66	98 288	251.81	28.00	Yes	29.54	193.39		0.44 Ac in existing road
618 X	" "				0.45					0.02 Ac in " "
618 A-X					0.43					0.02 Ac in " "
619 WL	Willard B. Harper	43	371	284.49	8.33		273.04	2.35		Residue Rt Landlocked
619	" "				0.48					0.22 Ac in existing road
619 X	" "				0.29					
620 WL	Ralph A. & Dorothy Witt	96	388	69.58	0.86		-	68.72		
621 WL	G. Streets	69	274	43.11	16.78		9.90	18.97		0.14 Ac in existing road
621	" "				0.43					0.14 Ac in " "
621 A	" "				0.20					0.07 Ac in " "
621 X	" "				0.64					
621 A-X	" "				2.06					
621 B-X	" "				0.13					
621 T	" "				0.17					
622	Goldia M. Harper	65	214	67.67	0.87		—	66.80		0.34 Ac in existing road
623 WL	C.L. Ford	54 64 91	398 390 385	574.10	20.32		284.29	235.13		0.13 Ac in existing road
623A-WL	" " "				21.55					0.15 Ac in " "
623	" " "				1.05					0.39 Ac in " "
623 A	" " "				0.91					0.37 Ac in " "
623 B	" " "				0.21					0.15 Ac in " "
623 X	" " "				1.62					
623 A-X	" " "				4.41					0.02 Ac in " "
623 B-X	" " "				3.31					
623 C-X	" " "				1.31					0.03 Ac in " "
623 TS	" " "				0.26					
623 T	" " "				0.08					
623 Y	" " "				0.11					
623 A-T	" " "				0.13					
607 T	William M. Henry				0.05					
612 T	Alden R. & Donna M. Johnston				0.12					
612 A-T	" " "				[illegible]					
618 T	Ward Gray				[illegible]					
607A-T	William M. Henry				0.03					

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

146
162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS

LIMITED ACCESS

3
19

GREENE COUNTY JEFFERSON TWP

HARRY E. & AMY H. ANSON

BEGIN PROJECT
GRE. 1-1.08, FAY. 1-0.00
STA. 16+62.74

Type "D" R/W Fence

Construction Limits

LA/RW

℄ N 49°54'59"E 1060.75'

148.00'L 16+62.74

150.00'L 21+75.35

300.02'

602 W/L

℄ 21+74.10

Sta 8+00

Begin Sheet

8 10 12 14 16 18 20 22 24

N 49°54'59"E

Exist. 8" Clay Tile

Match Line

148.00'R 16+62.74

150.00'R 21+72.85

S 39°36'29"W

S 49°54'59"W 727.14'

Construction Limits

Type "D" R/W Fence

LA/RW

Note: The Anson property shall be acquired with the preceeding project.

BEGIN R/W ACQUISITION
STA. 21+74.10

WILBER C. & HAZEL BEARD

WILBER C. BEARD

GREENE COUNTY JEFFERSON TWP

N 46°51'38"E

601

60T

605A

605 B-T

605A

150.00'L 35+50

150.00'L 32+36.10

208.06'L 32+36.74

Type "D" R/W Fence

N 49°54'59"E

313.89'

Exist. 4" Clay Tile

148.00'L 35+50

RIW

103.62' 18+79.18

LA

℄ 18+39.90

℄ 18+81.16

54" Culvert

℄ ORCHARD GROVE ROAD

℄ 37+70.68 S.R.1.

20+00 ℄ Orchard Grove Road

WILBER C. & HAZEL BEARD

190.00'L 36+96.85

190.00'L 38+53.77

608A

165.00'L 39+50

℄ 38+78.82

℄ 37+76.85

235.36

603

128.46'L 39+50

Sta 40+00

End Sheet

WILBER C. BEARD

N 49°54'59"E 1060.75'

LA/RW

Construction Limits

602 W/L

273.02'

℄ 32+34.45

℄ 37+00

140.00'L 37+00

138.00'L 37+00

140.00'L 38+50

138.00'L 38+50

605A

605 W/L

Exist. 2 Clay Tile

Exist. R/W

Exist. R/W

24 26 28 30 32 34 36 38 40

N 49°54'59"E

88°44'27"

S 38°29'28"E

Match Line

N 39°27'09"W

123.00'R 32+35.10

605 W/L

N 49°54'59"E 366.90'

Exist. 6" Clay Tile

121.00'R 36+00

123.00'R 36+00

140.00'R 37+60

140.00'R 38+50

138.00'L 37+00

℄ 21+40

Exist. 15" Clay Tile

121.00'L 39+50

123.00'R 39+50

150.00'R 40+00

148.00'R 29+00

121.00'R 30+00

123.00'R 30+00

N 34°48'25"E

103.58'

N 49°54'59"E 233.10'

℄ 32+35.80

150.00'R 32+35.80

27.00'

Construction Limits

LA

RIW

Type "D" R/W Fence

Exist. 6" Clay Tile

℄ 37+60

℄ 38+78

℄ 21+40.60

42" Culvert

℄ 40+00

LA/RW 727.14'

S 49°54'59"W

S 49°54'59"W 332.80'

S 49°54'59"W

150.00'R 34+00

317.20'

LULIA-A.-CHITTY

150.00'R 35+50

605 A-X

605 A-T

605 D-T

605

174.62'R 34+00

Residue Rt. = 45.53 Ac.

Residue Lt. = 0.65 Ac.

Landlocked

See Sheet 4 for R/W on Orchard Grove Road 36+63.14

Exist. 8" V.S.P.

ORCHARD GROVE ROAD

WILBER C. & HAZEL BEARD

Residue Rt. = 38.40 Ac.

Residue Lt. = 0.84 Ac. Landlocked

Exist. 8" Clay Tile

150.00'R 29+00

COMPLETION DATE		
REV.	DATE	DESCRIPTION
1		

RIGHT OF WAY 8 TO 40

FED. RD. DIVISION	STATE	PROJECT		147 / 162
2	OHIO			

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS 4/19

LIMITED ACCESS

GREENE COUNTY JEFFERSON TWP

WILBER C. & HAZEL BEARD

ORCHARD GROVE ROAD

WILBER C. BEARD
Residue Lt. = 42.81 Ac.

LULIA A. CHITTY

GREENE COUNTY JEFFERSON TWP

IDA J. HUDSON
Residue Rt. = 7.31 Ac.

ORCHARD GROVE R.D.

LULIA A. CHITTY

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY ORCHARD GROVE RD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

148/162

GREENE & FAYETTE COUNTIES

GRE.I-1.08 FAY.I-0.00

R/W PLANS

LIMITED ACCESS

5/19

GREENE COUNTY JEFFERSON TWP

WILBER C. & HAZEL BEARD

Residue = 112.63 Ac.

N 49°54'59" E 512.28'

N 53°51'41" E 689.48'

S 49°54'59" W 512.28'

165.00 L 44+62.28

121' L 44+62.28

123.46' L 44+62.28

603X

606X

R = 17,353.73' Chord = 1085.23' N 51°42'27" E

R/W

R = 17,312.19' Chord = 1082.63 S 51°42'27" W

S 53°51'41" W 1611.96'

Construction Limits

LA

Type "D" R/W Fence

603WL

123.46' L 55+37.37

52.798'

121' L 55+37.37

526.19'

N 53°30'00" E

Sta 40+00

Begin Sheet

40 42 44 46 48 50 52 54 56

P.I. 1 50+00

55+37.37

N 49°54'59" E

Existing 15" Clay Tile

605AX

512.28'

462.28'

S 49°54'59" W

LA

R/W

121' R 44+62.28

123' R 46+50

R = 17,065.73' Chord = 196.41'

N 50°13'54" E

N 65°56'02" E. 102.77'

605WL

148' R 47+50

150' R 47+50

150.00 R 44+62.28

R = 17,039.73' Chord = 285.19' S 50°23'41" W

CURVE DATA P.I. R = 17,039.73' Chord = 779.46' S 52°11'08" W

Δ = 3°35'01"

D = 0°20'

R = 17,188.734'

L = 1075.083'

T = 537.717'

E = 8.41'

LULIA A. CHITTY

PC. 1 44+62.283

150.00 R 40+00

605 E.T.

180.00 R 43+25

150.00 R 43+25

148' R 55+37.37

150.00 R 55+37.37

P.T. 1 55+37.366

540.56'

GREENE COUNTY JEFFERSON TWP

WILBER C. & HAZEL BEARD

N 53°30'00" E 526.19'

S 53°32'57" W 527.98'

603X

603WL

S 53°51'41" W 1611.96'

165.00 L 60+63.56

123.00 L 60+65.95

42.04'

436.79'

79.64 L 60+67.23

R/W

LA

Line

Match

56 58 60 62 64 66 68 70 72

60+70.57

S 38°36'00" E

273.26'

229.65'

N 53°30'00" E

605WL

Type "D" R/W Fence

150.00 R 60+76.94

LA/RW

S 53°30'00" 540.56'

LULIA A. CHITTY

WILLIAM M. HENRY

Residue Rt. = 18.29 Ac. Landlocked

Residue Lt. = 102.84 Ac.

N 53°30'00" E 1127.06'

607X

Construction Limits

S 53°30'00" W 1126.74'

607WL

Type "D" R/W Fence

Exist 6" Clay Tile

Exist 10" Clay Tile

S 53°30'00" 1124.69'

Exist 15" Clay Tile

165.00 L 71+90.69

123.00 L 71+94.09

150.00 L 71+93.14

608WL

Sta 72+00

N 53°30'00" E

71+96.39

272.76'

End Sheet

160' R 69+75

190' R 69+75

150.00 R 67+90

160.00 R 67+90

150.00 R 70+00

160.00 R 70+00

607T

607A T

REV.	DATE	COMPLETION DATE DESCRIPTION

RIGHT OF WAY 40 TO 72

FED. RD. DIVISION 2
STATE OHIO
PROJECT
149/162
GREENE & FAYETTE COUNTIES
GRE. I–1.08
FAY. I–0.00
R/W PLANS
LIMITED ACCESS
6/19
GREENE COUNTY
JEFFERSON TWP
POWERS ROAD 18
Exist. 15" Clay Tile
N 53°30'00" E 1279.31'
N 53°30'00" E 708.36'
Type "D" R/W Fence
Construction Limits
N68°36'34"E. 103.58'
N 53°30'00" E 473.37'
84+81.56 ℄ S.R.1 = 20+00 ℄ Powers Rd
Exist. 6" Clay Tile
N 53°26'20" E. 676.72'
N 53°30'00" E 826.63'
Sta. 72+00
Begin Sheet
Match Line
N 53°30'00" E
86°11'23"
S 38°23'26" W 103.53'
S 53°30'00" W 839.76'
298.36'
LA/RW
991.31'
130.29'
S 53°30'00" W 1591.75'
S 53°30'00" W 758.45'
JOSEPHINE & JOSEPH A. SHERIDAN
Residue Rt. = 11.33 Ac.
Residue Lt. = 41.10 Ac.
ALDEN R. JOHNSTON
See sheet 7 for R/W on Powers Road
JOSEPHINE & JOSEPH A. SHERIDAN
ALDEN R. & DONNA M. JOHNSTON
WEST BRANCH CREEK
N 53°26'20" E. 676.72'
N 54°25'33" E 153.43'
S 36°30'00" E 40.26'
N 53°30'00" E 826.63'
765.03'
N 53°30'00" E
1584.83'
N 53°28'33" E
Exist. 4" Clay Tile
Exist. 6" Clay Tile
Type "D" R/W Fence
N 53°30'00" E
Sta. 104+00
End Sheet
HELEN & DONALD D. EARLY
S 53°30'00" W 1468.52'
S 53°30'00" W 1215.96'
S 53°30'00" W 834.04'
S 53°30'00" W 758.45'
N 36°30'00" W 15.00'
ALDEN R. JOHNSTON
Residue Rt. = 85.78 Ac.
Residue Lt. = 0.18 Ac. Landlocked
N 36°30'00" W 110.00'
S 53°30'00" W 70.00'
Exist. 4" Clay Tile
COMPLETION DATE
REV.
DATE
DESCRIPTION
RIGHT OF WAY 72 TO 104

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

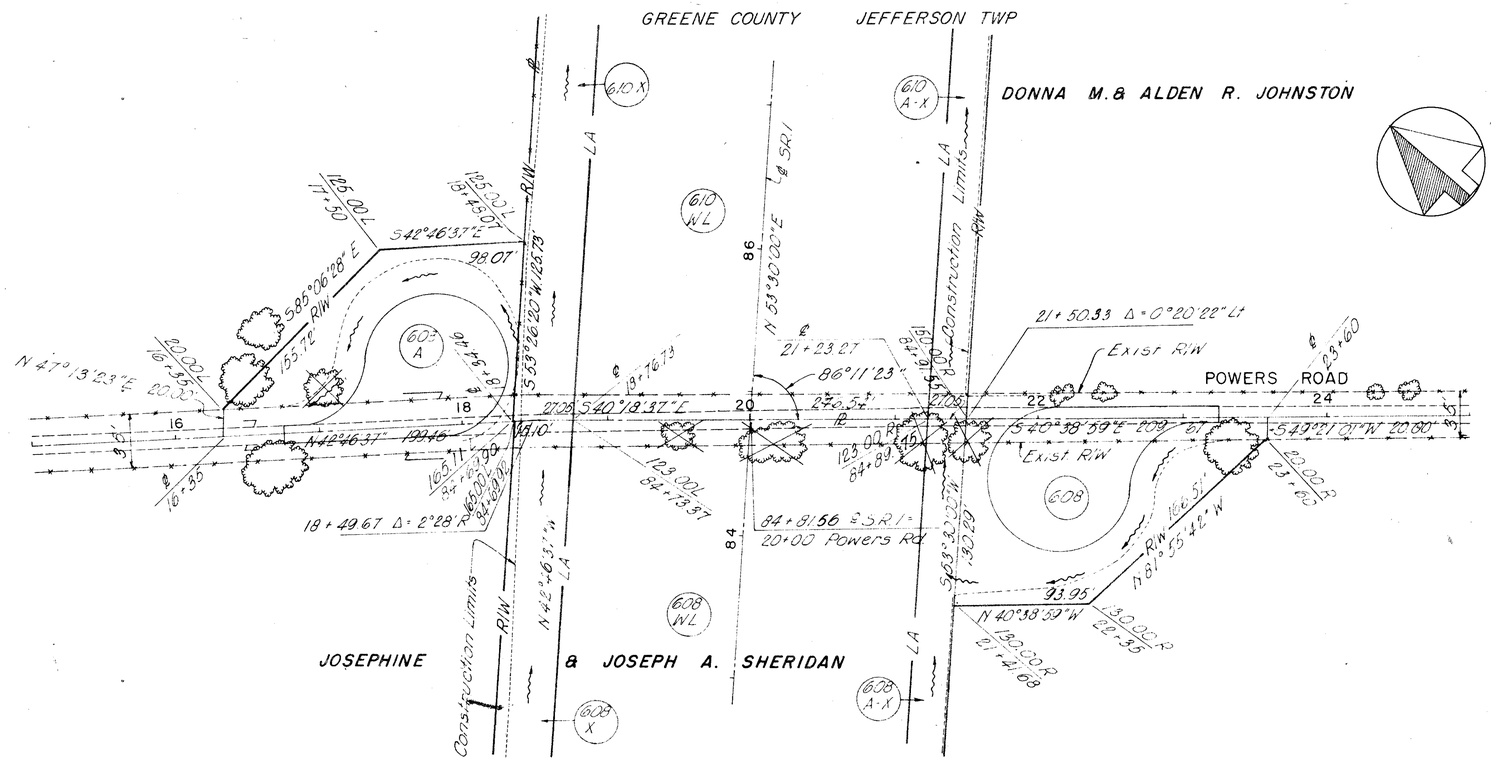
150
162

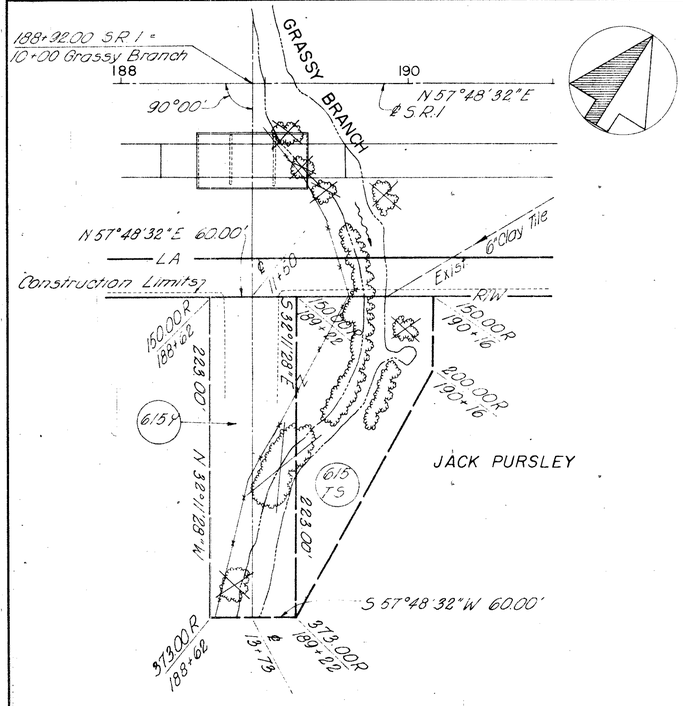
GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

7
19

R/W PLANS
LIMITED ACCESS





R/W POWERS ROAD AND GRASSY BRANCH

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

151 / 162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS

LIMITED ACCESS

8 / 19

GREENE COUNTY JEFFERSON TWP

ALDEN R. & DONNA M. JOHNSTON

N 53°28'33" E 1584.83'

L A / R/W

Construction Limits

Exist. 6" Clay Tile

Sta 104+00

Begin Sheet

104 106 108 110 112 114 116 118 120

N 53°30'00" E

Type "D" R/W Fence

611 WL

611 X

S 53°30'00" W 1468.50'

S 53°30'00" W 1215.36'

R/W

HELEN & DONALD D. EARLY

Residue Rt. = 84.54 Ac.

Exist 6" Clay Tile

N

150.00' R 113°00'

S 36°30'00" E 15.00'

S 53°30'00" W 300.38'

121' R 115°50'

129.00' 115°50'

S 40°04'30" W 69.84' 21°45.62'

100.00' R 110°00.56'

70.00' 150.00' R 116°10.30'

611

612 WL

64.35' L 18°43.60'

65.00'

151.57' L 116°49.11'

148' L 115°50'

150.00' L 116°49.90'

2886.84'

N 53°30'00" E

116+60.13 ℄ S.R.1 = 20+00 ℄ Smith Rd.

Exist. 6" Clay Tile

SMITH ROAD

612 WL

69.84' L 21°55.09'

148' R 115°50'

S 53°30'00" W

L A / R/W 2866.39'

612A

ALDEN R. & DONNA M. JOHNSTON

See sheet 9 for R/W on Smith Road

Match Line

GREENE COUNTY JEFFERSON TWP

ALDEN R. & DONNA M. JOHNSTON

Residue Rt. = 45.33 Ac.

Residue Lt. = 129.90 Ac.

N 53°30'00" E 2886.84'

L A / R/W

Construction Limits

Type "D" R/W Fence

612 WL

Match Line

120 122 124 126 128 130 132 134 136

N 53°30'00" E

Sta. 136+00

End Sheet

Exist 6" Clay Tile

Construction Limits

Type "D" R/W Fence

S 53°30'00" W 2866.39'

L A / R/W

GRE. 1-3.30

Twin 54" Culvert

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 104 TO 136

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

152/162

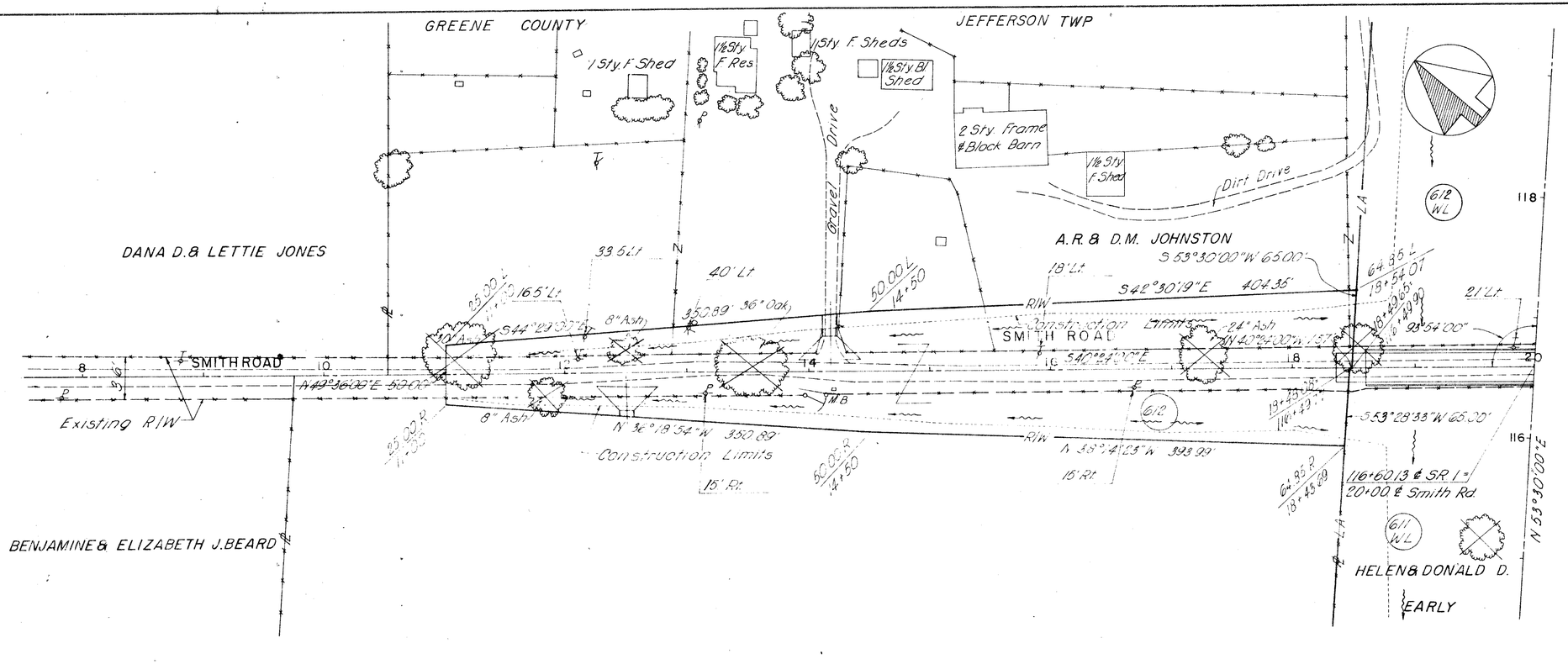
GREENE & FAYETTE COUNTIES

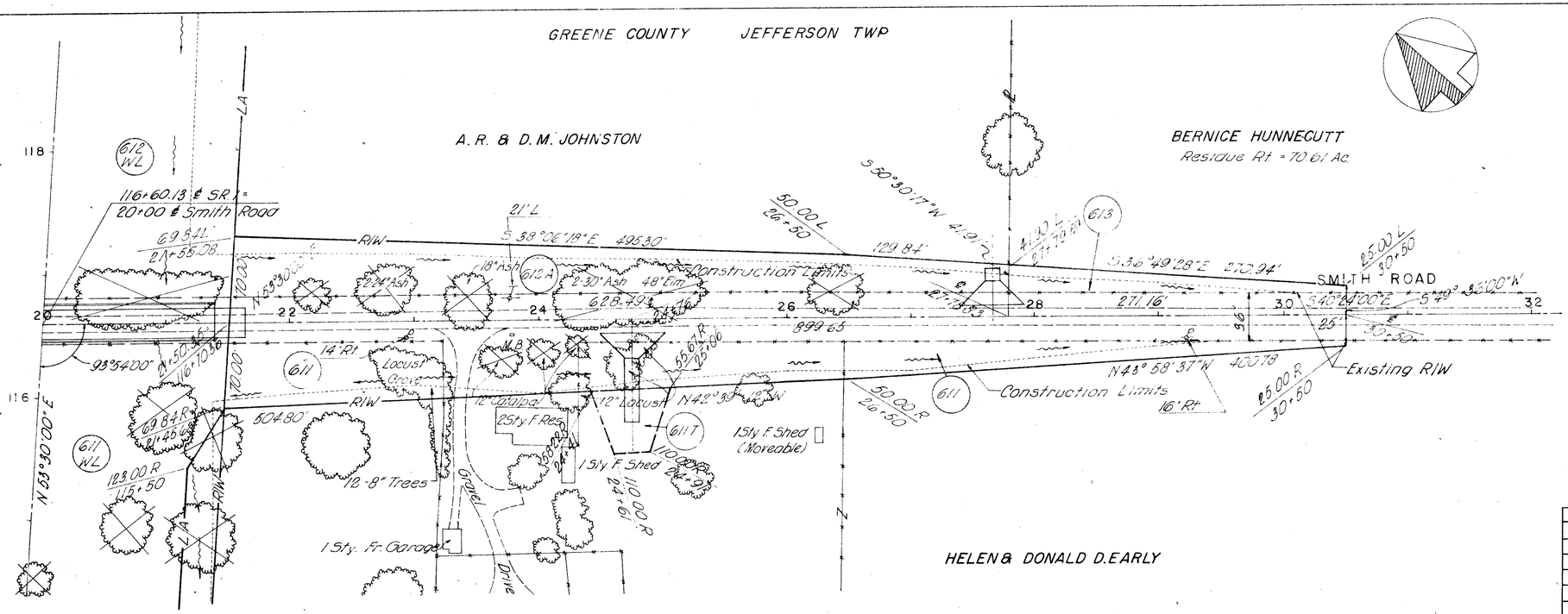
GRE. I–1.08 FAY. I–0.00

R/W PLANS

LIMITED ACCESS

9/19





COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY SMITH ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

153
162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS
LIMITED ACCESS

10
19

GREENE COUNTY JEFFERSON TWP

ALDEN R. & DONNA M. JOHNSTON

Sta 136+00

Begin Sheet

Match Line

Z

LA/RW

Construction Limits

N 53°30'00" E 2886.84'

S 53°30'00" W 2866.39'

N 53°30'00" E

Exist 6" Clay Tile

Exist 15" Clay Tile

Exist 8" Clay Tile

Type "D" R/W Fence

6/12T

6/12 WL

6/12 A-T

150.00' L 139+30

150.00' L 139+40

150.00' L 144+70

150.00' L 145+36.39

150.00' R 139+20

150.00' R 140+00

160.00' R 139+20

160.00' R 140+00

R = 17,338.73' Chord = 952.57' N 55°04'12" E

117.23'

S 22°33'33" W

123.00' L 146+50

121' ± L 146+50

R = 17,311.73' Chord = 840.72' S 55°13'00" W

PI 2/ 151+83.03

PC 2/ 145+36.39

R = 17,038.73' Chord = 973.62' S 55°08'13" W

CURVE DATA PI 2
Δ = 4°18'32"
D = 0°20'
R = 17,188.73'
T = 646.64'
L = 1292.67'
E = 12.16'

6/12X

6/12 WL

6/12 A-T

6/14X

6/14 WL

Sta 168+00

End Sheet

Match Line

GREENE COUNTY JEFFERSON TWP

N 32°11'28" W 15.00'

150.00' L 154+90.86

R = 17,338.74' Chord = 952.57' N 55°04'12" E

R = 17,338.74' Chord = 351.26' N 57°13'22" E

N 57°48'32" E 70.94'

N 57°48'32" E 15.16.43'

S 57°48'32" W 1592.27'

165.00' L 159+00

150.00' L 159+00

150.00' L 158+29.06

123.00' L 154+84.22

123.00' L 158+29.06

158' ± L 158+29.06

148' ± R 158+29.06

150.00' R 155+18.72

R = 17,311.73' Chord = 840.72' S 55°13'00" W

R = 17,311.74' Chord = 347.30' S 57°12'54" W

N 40°23'58" W 276.04'

N 57°48'32" E

Type "D" R/W Fence

Exist 5" Clay Tile

Exist 10" Clay Tile

Exist 6" Clay Tile

Drilled Well to be Abandoned

Construction Limits

R = 17,038.73' Chord = 973.62' S 55°08'13" W

R = 17,038.73' Chord = 307.64' S 57°17'35" W

S 57°48'32" W 1624.12'

PI 2/ 159+29.06

ALDEN R. & DONNA M. JOHNSTON

ELIZABETH J. BEARD
Residue Rt = 33.63 Ac Landlocked
Residue Lt = 108.10 Ac.

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 136 TO 168

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

154 / 162

GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

R/W PLANS

LIMITED ACCESS

11 / 19

GREENE COUNTY JEFFERSON TWP

FAYETTE COUNTY JASPER TWP

Begin Sheet

Sta 168+00

Existing 8" Clay Tile

Existing 12" Clay Tile

614 X

165.00' L. 174+16.43

Exist. 4" Clay Tile

165.00' L. 175+16.46

N 57°48'32" E 1516.48'

R/W

42.29'

N 57°48'32" E 1483.57'

R/W

Type "D" R/W Fence

Construction Limits

LA

S 57°48'32" W. 1592.27'

614 WL

183.00' L. 174+21.53

123.00' L. 174+33.14

47.13' L. 174+80.19

S 57°48'32" W 2500.01'

615 X

173+93.70

174+35.68

174+85.87

168 170 172 174 176 178 180 182 184

N 57° 48' 32" E

S 19°30' 43" E

GREENE COUNTY

FAYETTE COUNTY

150.00 174+53.18

615 WL

Construction Limits

S 42°41'57" W 103.58'

121.00' R 184+00

183.00' R 184+00

48.00' R 183+00

LA

R/W

Match Line

S 57°48'32" W

LA R/W 1624.12'

ELIZABETH J. BEARD

150.00' R 172+77.56

S 57°48'32" W 846.82'

Type "D" R/W Fence

JACK PURSLEY

Residue Rt. = 295.49 Ac.

Residue Lt. = 49.71 Ac.

LA R/W 1652.24'

615 A-X

150.00' R 183+00

FAYETTE COUNTY JASPER TWP

165.00' L. 189+00

150.00' L. 183+00

S 32°11'28" E. 15.00'

GRASSY BRANCH

1½ Sty Fr. Barn

Exist. R/W

FRED L. GRAY

N 57°48'32" E 1483.57'

R/W

615 X

Type "D" R/W Fence

LA

N 57°48'32" E 1018.29'

Construction Limits

Type "D" R/W Fence

LA

R/W

S 57°48'32" W. 2500.01'

615 WL

121.00' R 188+53

121.00' L 189+31

191.13' L 191+13.63

26° Rt.

18" Culvert

150.00' L 191+35.26

618 X

618 WL

20+00 to Marchant Luttrell Rd.

121.00' L 198+78

121.00' R 199+67

Sta 200+00

Match Line

188+92.00 S.R.1 = 10+00 Grassy Branch

184 186 188 190 192 194 196 198 200

Type "D" R/W Fence

N 57° 48' 32" E

92°00

Type "D" R/W Fence

95°27'38"

26° Rt.

121.00' R 188+53

121.00' R 189+31

183.00' R 191+18

150.00' R 189+32.23

MARCHANT LUTTRELL ROAD

End Sheet

615 A-X

Existing 6" Clay Tile

S 57°48'32" W 1549.18'

LA

Type "D" R/W Fence

Construction Limits

Type "D" R/W Fence

R/W

1652.24'

S 57°48'32" W

JACK PURSLEY

See sheet 7 for Temporary Channel Easement

615 X

615 TE

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 168 TO 200

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

155/162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

12/19

R/W PLANS
LIMITED ACCESS

FRED L. GRAY — FAYETTE COUNTY — JASPER TWP

Sta 200+00 — Begin Sheet

N 57°48'32"E 781.71'

R/W

LA

N 57°48'32"E 678.66'

N 42°41'57"E 103.58'

150.00' L 201+00

148' L 201+00

123.00' L 206+00

121' L 206+00

618 X

618 WL

Construction Limits

Type "D" R/W Fence

N 57°48'32"E 3407.39'

LA/RW

150.00' L 212+80

618 T

Exist 8" Clay Tile

Existing 8" Clay Tile

150.00' L 214+10

160.00' L 214+10

200 202 204 206 208 210 212 214 216

N 57°48'32" E

Match Line

1 Sty F Shed

Leach Bed

Plug

Plug

618 A X

121' R 206+00

123.00' R 206+00

148' R 201+00

S 57°48'32"W 650.88'

S 72°55'07"W 103.58'

Type "D" R/W Fence

Construction Limits

LA/RW

Exist 4" Tile

Septic Tank

2½ Sty Frame Res.

Exist 4" Drain Tile

1 Sty Frame Sheds

1 Sty Frame Shed

S 57°48'32"W 747.77'

150.00' R 201+00

S 57°48'32" W 3449.23'

WARD GRAY

Residue Rt. = 193.39 Ac.

Residue Lt. = 29.54 Ac.

FAY 1-0.71

48" Culvert

Exist 8" Clay Tile

N

FAYETTE COUNTY — JASPER TWP

Exist 18" Clay Tile

LA/RW

N 57°48'32"E 3407.39'

Type "D" R/W Fence

Construction Limits

618 WL

Match Line

216 218 220 222 224 226 228 230 232

N 57°48'32" E

Sta 232+00 — End Sheet

Construction Limits

Type "D" R/W Fence

LA/RW

FAY 1-0.87

48" Culvert

WARD GRAY

S 57°48'32" E 3449.23'

N

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 200 TO 232

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

156 / 162

GREENE & FAYETTE COUNTIES

GRE. 1-1.08 FAY. 1-0.00

R/W PLANS

LIMITED ACCESS

13 / 19

FAYETTE COUNTY JASPER TWP

WILLARD B. HARPER

Residue Rt = 2.35 Ac Landlocked

Residue Lt = 273.04 Ac.

N 57°48'32"E 3407.39'

LA/RW

Type "D" R/W Fence

Construction Limits

618 WL

Sta 232+00

150.00 L 241+06.77

N 57°48'32"E 893.23'

619 WL

N 40°39'32"E 51.08

241+27.70

232 234 236 238 240 242 244 246 248

N 57° 48'32"E

5.58 R 241+28.48

620 WL

Type "D" R/W Fence

556.38 N 72°55'06"E

150.00 R 241+48.63

Construction Limits

S 57°48'32"W 3449.23'

S 57°48'32"W

WARD GREY

RALPH A. & DOROTHY WILT

Residue Rt = 63.72 Ac

150.00 R 263+58.96

516.16'

Begin Sheet

Match Line

FAYETTE COUNTY JASPER TWP

WILLARD B. HARPER

Exist 10" Clay Tile

148.8' L 251+00

150.00 L 251+00

893.23'

N 57°48'32" E 588.76'

R/W

N 72°55'06"E 108.58'

143.00' L 257+60

N 57°48'32"E 385.33'

619 X

195.85 L 254+85.60

123.00' L 254+85.33

Exist 4" Clay Tile

150.00 L 255+88.70

106.11'

FAY.1-1.67

76"x 48" Culvert

N 51°43'32"E 1011.30'

R/W

Construction Limits

LA

621 WL

621 X

N 57°48'32"E 1012.67'

Sta 264+00

Type "D" R/W Fence

S 38°39'32"E 275.04'

255+01.87

N 57°48'32" E

619 WL

Type "D" R/W Fence

150.00 R 255+22.04

Construction Limits

S 42°41'58"W 103.58'

148.8' R 260+75

143.1' R 261+75

123.00' R 262+11.44

621 X

LA

S 57°48'32"W

525.00'

S 57°48'32"W

LA/RW

S 57°48'32"W 855.66'

S 51°43'32"W 552.96'

G. STREETS

Exist 12" Clay Tile

150.00' R 264+75

R/W

Sta 264+00

End Sheet

Match Line

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 232 TO 264

FAYETTE COUNTY JASPER TWP

CURVE DATA P.I.3
Δ = 2°49'18" Lt
D = 0°16'
R = 21,485.92'
T = 529.17'
L = 1058.12'
E = 6.52'

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

157/162

GREENE & FAYETTE COUNTIES
GRE. I-1.08 FAY. I-0.00

14/19

R/W PLANS
LIMITED ACCESS

1011.30' N 57°48'32" E
148.00' L 266+00
150.00' L 266+00
R/W
LA
R/W N 57°48'32" E 346.44'
150.00' L 269+46.44
Type "D" R/W Fence
R = 21,335.92 Chord = 1050.63' N 56°23'54" E
LA R/W
Exist 6" Clay Tile
101.46'
N 42°41'58" E 103.58'
123.00' L 265+00
12.00' L 265+00
621 AX
621 WL
148.00' L 269+46.44
Sta. 264+00
264 266 268 269+46.44 270 272 274 276 278 280
Match Line
N 57°48'32" E
P.I. 3 274+75.61
Begin Sheet
121.00' R 269+46.44
123.00' R 269+46.44
S 57°48'32" W 771.44'
LA
R = 21,608.92 Chord = 1064.01' S 56°23'54" W
LA
S 57°48'32" W 625.00'
S 69°07'08" W 101.98'
621 AX
Type "D" R/W Fence
150.00' R 266+00
170.00' R 267+00
S 57°48'32" W 246.44'
G. STREETS R/W
Residue Rt. = 18.97 Ac.
Residue Lt. = 9.90 Ac.
R = 21,655.92 Chord = 1066.38' S 56°23'54" W
R/W
P.C. 1 269+46.44
170.00' R 269+46.44

FAYETTE COUNTY JASPER TWP

79.28' R 18+31.81
205.65' R 18+31.81
180.00' L 280+04.56
150.00' L 280+04.56
133.69'
N 42°01'04" E 146.04'
148.00' L 280+04.56
621 BX
621 WL
621 AX
621 A
623 A
623
623 WL
623 X
623 A-X
JENKS ROAD
N 54° 59'14" E 73.55'
180.00' L 282+08.39
79.24' 18+25.68
48" Culvert
180.00' L 282+81.90
188.35' 18+66.61
N 69°14'47" E
150.00' L 288+00
N 54°59'14" E 300.00'
150.00' L 283+00
160.00' L 283+00
N 47°10'36" E
Type "D" R/W Fence
1450.00'
R/W
LA
Construction Limits
S 58°55'06" W
140.00' L 281+50
136.00' L 281+50
@ 18+59.49
94°54'01"
Sta. 296+00
280 284 286 288 290 292 294 296
Match Line
End Sheet
N 54°59'14" E
282+23.82 @ SR1
20+00 @ Jenks Rd
123.00' R 281+00
121.00' R 283+75
140.00' R 282+75
123.00' R 283+75
S 54°59'14" W 30.12'
S 54°59'14" W 95.44'
123.00' R 281+00
101.44'
S 64°38'07" W
96.44'
S 45°00'22" W
S 54°59'14" W 72.89'
140.00' R 282+75
S 42°02'27" W
90.00' R 283+75
170.00' R 284+00
S 54°59'14" W 1425.00'
LA
Type "D" R/W Fence
R/W
Construction Limits
140.00' R 282+00
96° Culvert
170.00' R 280+04.56
170.00' R 281+00
S 71°36'09" W 69.92'
90.00' R 281+67
Exist 6" Clay Tile
P.T. 1 280+04.56
621 A
623
See sheet 15 for R/W on Jenks Road
S 54°59'14" W 79.11'
C.L. FORD
Residue Rt. = 235.13 Ac.
Residue Lt. = 284.28 Ac.

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 264 TO 296

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

158/162

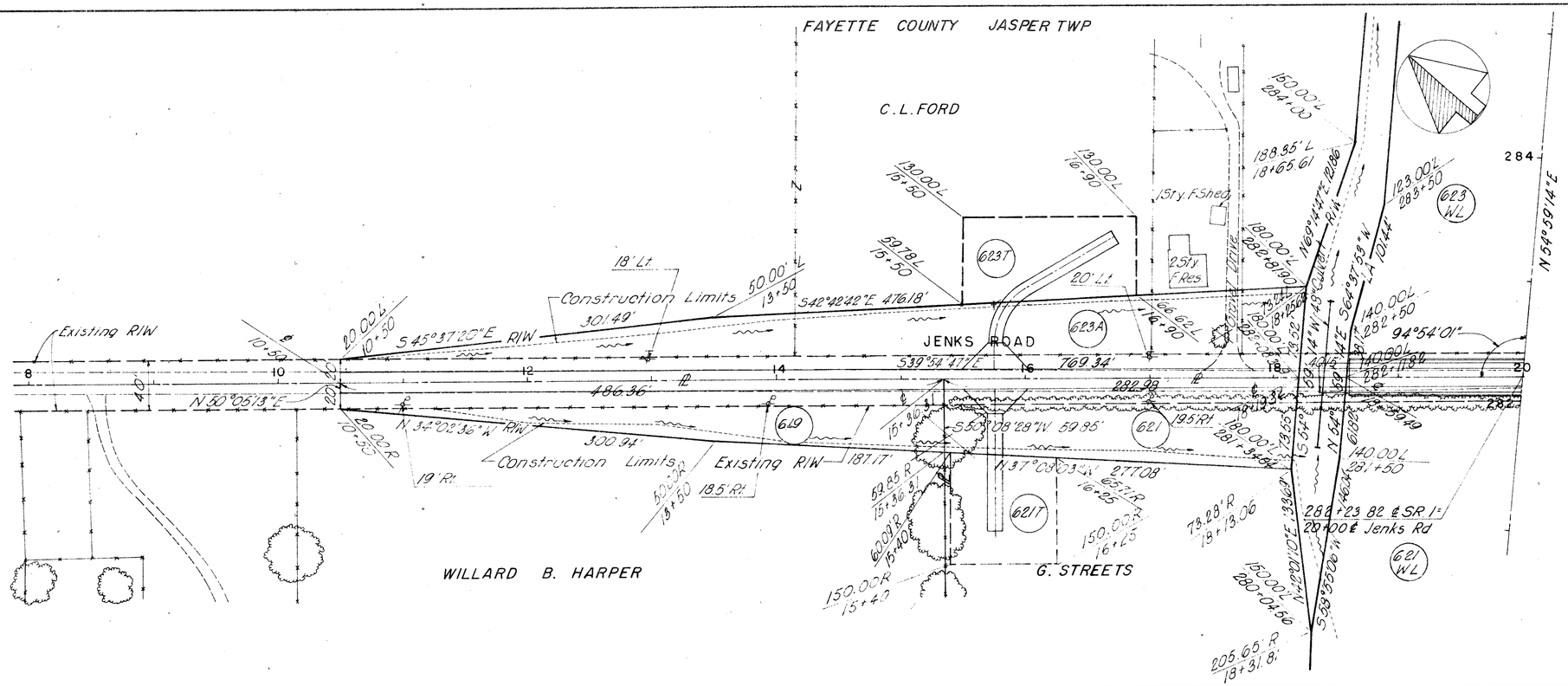
GREENE & FAYETTE COUNTIES

GRE. I-1.08 FAY. I-0.00

R/W PLANS

15/19

LIMITED ACCESS



COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY JENKS ROAD

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

159/162

GREENE & FAYETTE COUNTIES

GRE I-1.08 FAY. I-0.00

R/W PLANS 16/19

LIMITED ACCESS

Fence and Intermediate Anchor Post Assemblies NOT PART OF THIS CONTRACT.

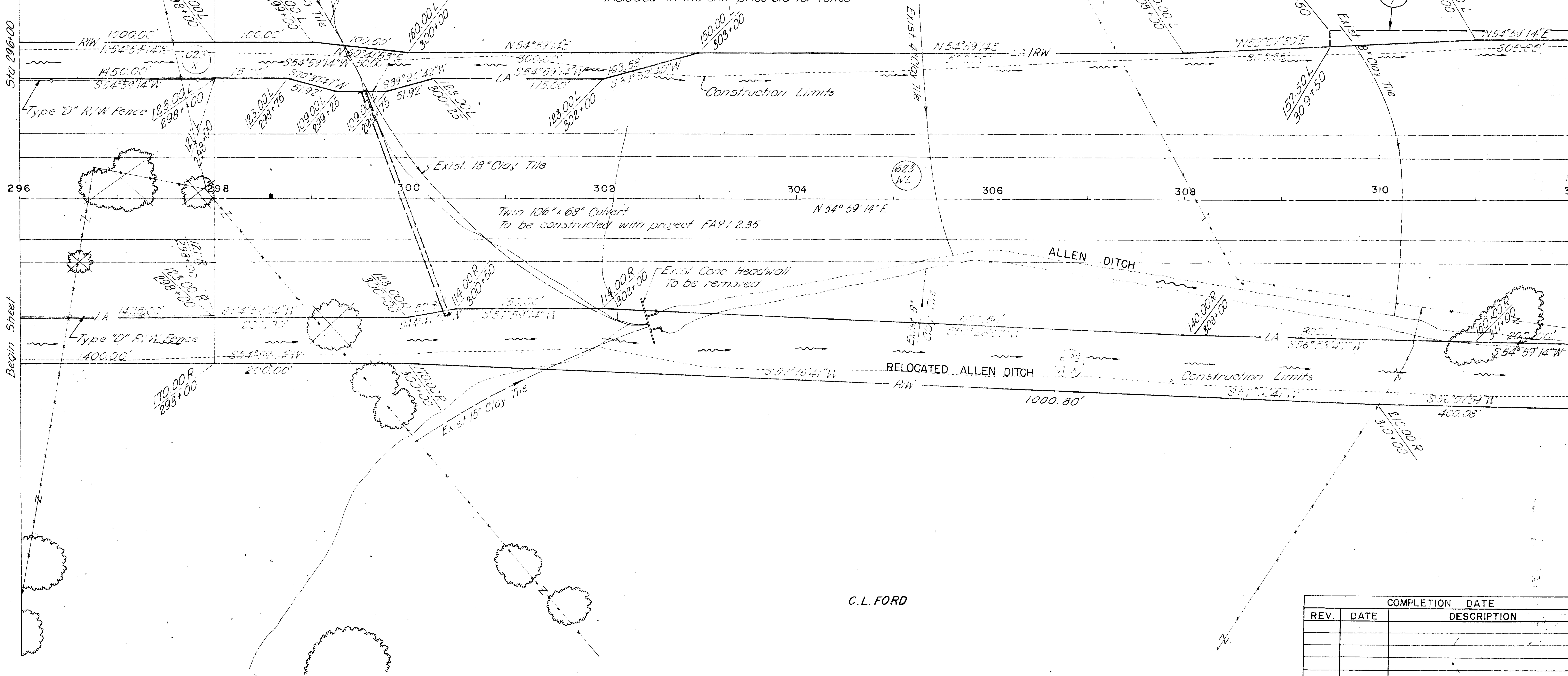
ITEM SS-18 FENCE, TYPE D

QUANTITIES													
SHEET										ITEM	QUANTITY	UNIT	DESCRIPTION
3	5	6	8	10	11	12	13	14	16				
4827	6403	6599	6346	6405	6735	6406	6406	6351	400	SS-18	56 878	L.F.	Fence, Type "D"

Note: Additional intermediate anchor post assemblies shall be placed to give a 48 foot spacing between assemblies, with the center of the spacing at the following stations:

Left	Right
47+50	32+00
88+00	42+00
156+00	87+00
178+00	107+00
194+00	186+00
260+00	194+00
292+00	271+00
	292+00

The cost of additional assemblies shall be included in the unit price bid for fence.



COMPLETION DATE		
REV.	DATE	DESCRIPTION

FAYETTE COUNTY JEFFERSON TWP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

160/162

GREENE & FAYETTE COUNTIES

GRE.I-1.08 FAY. I-0.00

17/19

R/W PLANS

LIMITED ACCESS

FAYETTE CO.

JASPER TWP

W.H. GRAY

Tower

B & O R.R.

Sta 312+00

Sta 328+00

Begin Sheet

End Sheet

623A T

623 W.L.

623 T.S.

623 B-X

Exist 8" Clay Tile

Exist 6" Tile

Exist 4" Clay Tile

Existing 5" Clay Tile

25'x 40' Barn

N 54°59'14"E 300.00'

LA/RW

N 54°59'14"E 370.11'

N 56°18'35"E 650.17'

N 57°28'58"E

Construction Limits

JEFFERSON TWP.

JASPER TWP.

ALLEN DITCH

RELOCATED ALLEN DITCH

R/W

S 54°59'14"W 900.00'

S 49°33'30"W 319.15'

S 37°45'57"W 209.39'

S 54°59'14"W 156.98'

S 67°00'24"W

S 53°37'48"W 38.16'

Timber Bridge

High Voltage Transmission Line

C.L. FORD

3+15+75.50 ℄ S.R.1 = 0+00 B ℄ O. RR. 1918+65.2 B.℄ O. R.R.

COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 312 TO 328

FAYETTE COUNTY JEFFERSON TWP

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	[illegible]	

161
162

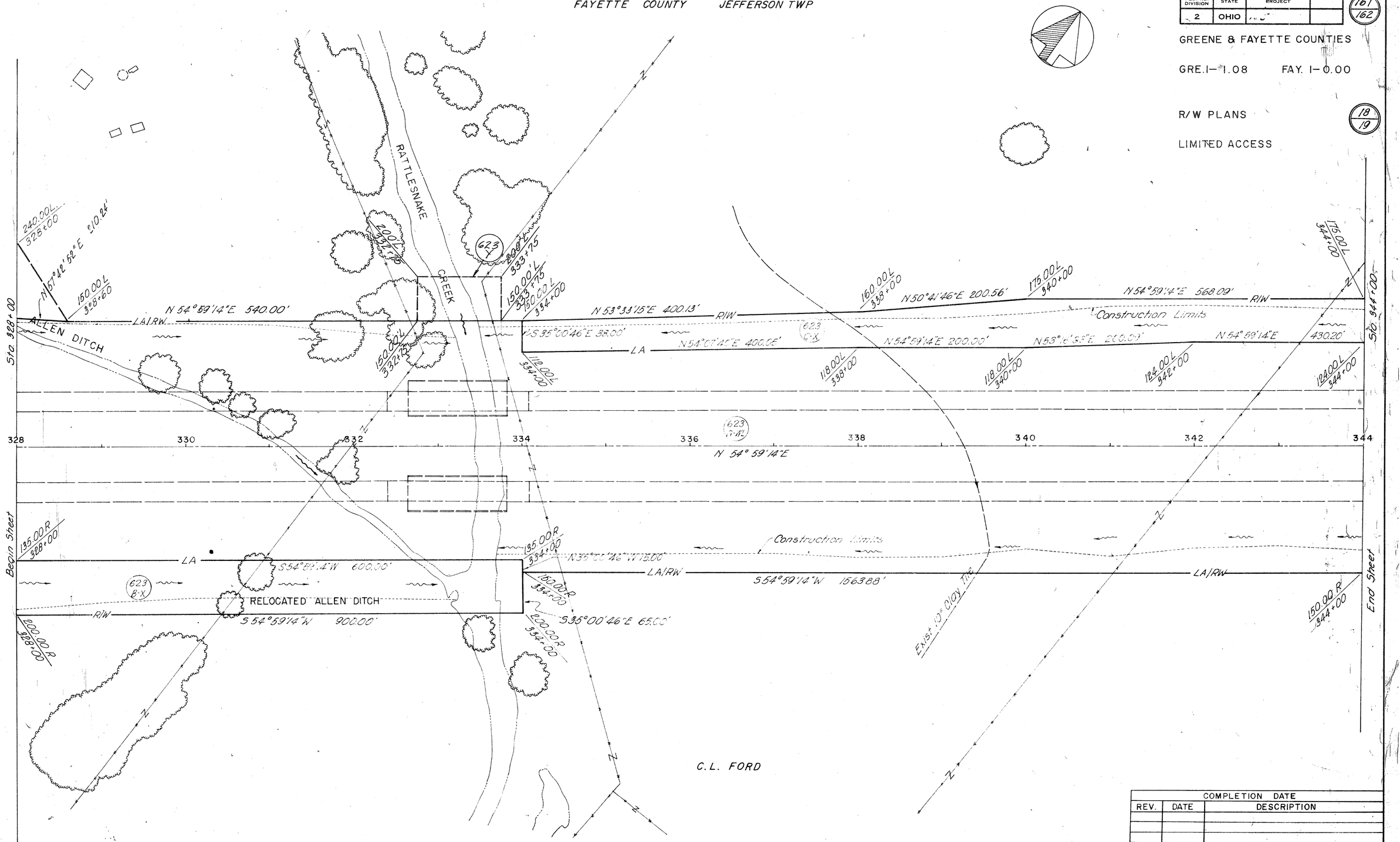
GREENE & FAYETTE COUNTIES

GRE.I—1.08 FAY. I—0.00

18
19

R/W PLANS

LIMITED ACCESS



COMPLETION DATE		
REV.	DATE	DESCRIPTION

RIGHT OF WAY 328 TO 344

FED. RD. DIVISION 2 | STATE OHIO | PROJECT
162/162
GREENE & FAYETTE COUNTIES
GRE. I- 1.08
FAY. I-0.00
R/W PLANS
19/19
LIMITED ACCESS
FAYETTE COUNTY JEFFERSON TWP.
EDITH ALLEN
END R/W ACQUISITION STA. 345+68.10
175.00 L 344+00
175.00 L 345+68.10
N 54°59'14"E
R/W
568.09'
623 C-X
N54°59'14"E
430.20'
LA
124.00 L 346+30.21
124.00 L 344+00
Construction Limits
Sta. 344+00
Begin Sheet
344
N54°59'14"E
346
348
350
352
354
356
358
360
N 54°59'14"E
623 A-WL
Exist. 5" Clay Tile
Construction Limits
LA/RW
S 54°59'14"W 1563.88'
160.00 R 344+00
160.00 R 349+63.88
Exist. R/W
END R/W ACQUISITION STA. 349+63.88
GARRINGER EDGE ROAD
TWP. RD. 84
C.L. FORD
2 Sty. Fr. Barn
See Insert Above
623B
CO. RD. 14 ALLEN ROAD
Existing R/W
Match Line
Exist. 4" Clay Tile
CARL H. JANES
Sta. 360+00
End Sheet
GARRINGER EDGE RD. CO. RD. 14
S 85°37'16"E
Exist. R/W
TWP. RD. 84
2 Sty. Fr. Barn
13.08'
13.08 L 7+14.69
7+14.76
Proposed R/W
RELOCATED ALLEN RD.
ALLEN RD.
2 Sty. Fr. Res.
SC 6+51.56
TS 5+01.56
CURVE DATA
PI = 8+45.36
Δ = 66°19'01"
D = 14°
R = 409.26'
T = 343.80'
E = 80.05'
Lc = 323.7'
Θs = 10°30'
Ls = 150'
623B
C.L. FORD
CARL H. JANES
N 4°40'13"E 301.48
Exist. R/W
35.00 2+76
S 85°19'47"E 35.00'
Note: Parcel 623 B is being acquired for Construction of Project FAY. I-2.35
COMPLETION DATE
REV. | DATE | DESCRIPTION
RIGHT OF WAY 344 TO 360

TE 54 A
100.10-60

GENERAL INFORMATION

INTRODUCTION

The project consists of the proposed construction of 5.5 miles of SR 1 (IR 71), beginning approximately 1 mile south of Bowersville, extending northeastward, terminating 1200 feet east of Jenks Road (Twp. Rd. 83). Also included in this report are the profiles of five intersecting roads - Orchard Grove Road, Powers Road, Smith Road, County Road 13, and Jenks Road (Twp. Rd. 83).

The proposed grades indicate the following:

Mainline (SR 1) - cuts, ranging between 0 and 4 feet in depth, and fill embankments, ranging between 0 and 14 feet in height.

Orchard Grove Road - fill embankments, ranging between 0 and 23 feet in height.

Smith Road - fill embankment, ranging between 0 and 18 feet in height.

County Road 13 - fill embankment, ranging between 0 and 22 feet in height.

Jenks Road - fill embankment, ranging between 0 and 24 feet in height.

GEOLOGY OF THE PROJECT

The project is located on the glaciated till plain region, where glacial-derived soils, in excess of 20 feet thick, overlie shale and limestone bedrock, of Silurian age.

EXPLORATION

Exploratory borings were made by means of truck-mounted mechanical earth auger and hand auger (in areas of difficult access), between March 26 and April 3, 1962.

INVESTIGATIONAL DISCLOSURES

Mainline (SR 1) and Intersecting Roads

Materials occurring immediately below proposed grade and in the embankment foundation areas are comprised of sandy silts, silts, silt clays, and clays, in the A-4, A-6 and A-7-6 classifications, generally having moisture contents in the lower portion of the plastic range.

Frost susceptible silts were encountered within three feet of grade at station 5+50, Mainline; and station 30+00, County Road 13.

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 389 SAMPLES TESTED

DESCRIPTION	H.R.B CLASS	OHIO CLASS	% AGG	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
Gravel and/or stone fragments	A-1-a(0)	A-1-a	63	19	7	5	6	16	1	10	3
Stone fragments with sand	A-1-b(0)	A-1-b	52	20	11	11	6	19	2	13	3
Stone fragments with sand and silt	A-2-4(0)	A-2-4	36	7	41	13	13	NP	NP	17	1
Sandy silt	A-4(5)	A-4a	16	8	14	35	27	22	5	14	178
Silt	A-4(8)	A-4b	6	4	10	56	24	24	4	19	37
Silt and clay	A-6(8)	A-6a	10	6	11	37	36	31	12	23	83
Silty clay	A-6(11)	A-6b	7	3	9	39	42	38	18	24	24
Plastic clay	A-7-5(11)	A-7-5	8	5	8	38	41	46	14	27	2
Clay	A-7-6(14)	A-7-6	3	2	8	40	47	44	23	27	80

Sod and/or Topsoil=X'=Approximate depth.

Rem material.

Auger boring - plan view.

Auger boring plotted to vertical scale only.

Water content nearly equal to or greater than liquid limit.

Indicates a non-plastic material with high water content.

Free water.

NOTE: Figures beside borings indicate water content in percent. e.g. 15

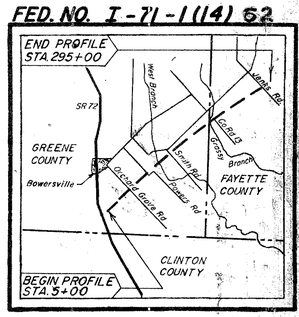
SOIL PROFILE
GREENE--FAYETTE COS.
GRE-1-1.08
FAY-1-0.00

OHIO STATE HIGHWAY TESTING LABORATORY
COLUMBUS, OHIO

1/17

NOTE: INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS OBTAINED SOLELY FOR USE IN ESTABLISHING DESIGN CONTROLS FOR THE PROJECT. THE STATE OF OHIO DOES NOT GUARANTEE THE ACCURACY OF THIS DATA AND IT IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT.

FED. NO. I-71-1(14) 62



LOCATION MAP

Recon - N.P.L. - 3-16-62
Drilling - L.M.D.-J.M.M- 3-26-62 to 4-3-62
Drafting - R.D.S.- D. A. -W.H.W. - 5-2-62.

SOIL PROFILE
GREENE - FAYETTE COS.
GRE - 1 - 1.08
FAY - 1 - 0.00
OHIO STATE HIGHWAY TESTING LABORATORY
COLUMBUS, OHIO

SUMMARY OF SOIL TEST DATA

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicates that the material is non-plastic.
*Denotes sample taken at or near grade.

Station	Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	Soil Class.
*5+50	CL	0.5-2.0	0	1	26	49	24	30	19	25	A-6b*
		2.0-7.0	13	11	16	43	17	24	5	15	A-4a*
		7.0-10.0	8	10	15	44	23	20	3	12	A-4a
*5+50	75' Rt	0.5-1.5	0	2	6	48	44	46	15	27	A-7-5
		1.5-3.0	2	1	4	39	54	52	25	29	A-7-6
		3.0-5.0	6	6	13	38	37	32	14	18	A-6a
		5.0-11.5	5	7	16	42	30	23	6	16	A-4a
		11.5-15.0	11	9	13	39	28	21	6	10	A-4a
8+00	CL	0.4-2.0	0	2	12	38	48	48	21	29	A-7-6*
		2.0-5.0	8	6	11	23	52	39	14	31	A-6a*
12+00	CL	0.4-3.0	14	3	3	40	40	36	12	24	A-6a*
16+00	CL	0.4-4.0	0	1	3	43	53	39	17	26	A-6b
20+00	CL	0.4-3.0	0	2	7	46	45	45	20	28	A-7-6*
		3.0-5.0	14	5	12	35	34	39	17	32	A-6b*
22+00	CL	2.0-5.0	0	1	2	67	30	42	21	31	A-7-6*
		5.0-10.0	20	7	11	32	30	23	5	17	A-4a
		10.0-12.0	8	9	14	39	30	20	3	13	A-4a
26+00	CL	1.7-5.0	0	5	6	51	38	45	19	20	A-7-6*
		5.0-10.0	9	7	14	43	27	26	9	17	A-4a
		10.0-12.0	14	7	13	33	33	21	5	11	A-4a
29+00	CL	1.2-5.0	10	6	13	40	31	31	13	20	A-6a*
		5.0-10.0	10	8	15	40	27	23	7	16	A-4a
		10.0-12.0	11	9	14	32	34	20	5	11	A-4a
32+00	CL	0.7-5.0	0	2	9	38	51	37	13	23	A-6a*
		5.0-10.0	0	2	11	35	52	41	21	26	A-7-6
		10.0-12.0	7	7	15	41	30	23	8	11	A-4a
34+00	CL	1.0-5.0	11	5	13	38	33	30	19	18	A-6b
		5.0-9.5	11	8	15	35	31	24	7	16	A-4a
		9.5-12.0	9	10	16	36	29	19	4	13	A-4a
37+00	CL	1.5-5.3	6	1	7	36	50	50	29	25	A-7-6
		5.3-9.0	12	7	13	39	29	20	11	19	A-6a
		9.0-12.0	8	8	15	37	32	21	6	11	A-4a
40+00	CL	1.2-5.0	3	4	12	39	42	33	14	17	A-6a
		5.0-9.5	16	7	13	33	31	23	6	14	A-4a
		9.5-12.0	12	9	15	34	30	20	6	11	A-4a
43+00	CL	1.5-5.0	4	2	8	34	52	54	31	28	A-7-6
		5.8-9.5	7	5	13	37	38	33	13	21	A-6a
		9.5-12.0	10	8	15	36	31	19	3	11	A-4a
47+00	CL	0.6-5.0	4	5	13	41	37	35	15	23	A-6a*
		5.0-9.5	29	8	12	27	24	22	6	12	A-4a
		9.5-15.0	9	10	15	34	32	24	9	14	A-4a
50+00	CL	0.8-4.5	0	1	3	43	53	42	16	31	A-7-6
		4.5-7.0	5	11	9	35	40	32	12	29	A-6a
		7.0-10.0	9	4	7	41	39	35	14	16	A-6a
		10.0-13.0	10	9	14	38	29	22	7	13	A-4a
53+00	CL	1.0-5.5	0	3	15	40	42	44	22	26	A-7-6
		5.5-9.0	6	10	20	38	26	22	4	25	A-4a
		9.0-12.0	16	9	14	34	27	21	6	13	A-4a
56+00	CL	0.8-5.5	0	1	5	46	48	46	24	28	A-7-6
		5.5-9.0	0	1	3	73	23	NP	NP	25	A-4b
		9.0-12.0	10	9	15	39	27	18	2	12	A-4a
59+00	CL	0.8-5.5	2	4	12	39	43	39	19	20	A-6b
		5.5-9.0	8	7	14	39	32	24	6	19	A-4a
		9.0-14.0	10	10	19	34	27	21	5	11	A-4a
62+00	CL	1.0-4.5	0	11	16	45	28	43	17	24	A-7-6
		4.5-9.5	3	2	19	46	30	25	7	18	A-4a
		9.5-15.0	7	9	17	39	28	20	6	12	A-4a
65+00	CL	1.0-4.5	0	13	19	37	31	45	25	29	A-7-6
		4.5-10.0	0	1	2	43	54	36	14	29	A-6a
		10.0-15.0	13	8	15	39	25	19	3	13	A-4a
67+00	CL	1.0-5.0	0	1	2	50	47	37	14	26	A-6a
		5.0-10.0	0	1	3	46	50	39	15	34	A-6a
		10.0-15.0	12	10	15	35	28	22	6	12	A-4a
69+50	CL	1.0-5.0	4	6	13	42	35	30	13	21	A-6a
		5.0-10.0	12	7	15	38	28	23	6	16	A-4a
		10.0-15.0	11	9	16	39	25	20	8	11	A-4a
73+00	CL	1.3-6.0	0	2	7	35	56	40	15	24	A-6a
		6.0-9.5	13	7	14	35	31	26	7	19	A-4a
		9.5-15.0	27	8	12	30	23	19	4	11	A-4a
76+00	CL	1.2-6.0	10	9	14	37	30	25	7	16	A-4a
		6.0-9.0	14	7	14	38	27	23	7	20	A-4a
		9.0-12.0	11	10	15	39	25	20	7	12	A-4a
80+00	CL	1.0-4.5	0	1	6	45	48	33	11	30	A-6a
		4.5-9.0	14	12	15	38	21	21	4	15	A-4a
		9.0-12.0	16	8	14	33	29	21	2	13	A-4a
84+00	CL	1.0-5.0	0	1	4	46	49	46	23	31	A-7-6
		5.0-9.0	0	4	7	49	40	31	11	29	A-6a
		9.0-14.0	9	9	15	38	29	20	4	12	A-4a
87+00	CL	1.7-7.0	0	1	4	53	42	49	24	27	A-7-6
		7.0-10.0	0	3	7	43	47	33	11	29	A-6a
		10.0-12.0	8	10	17	39	26	20	4	10	A-4a
90+00	CL	1.7-7.0	0	1	13	40	46	41	19	26	A-7-6
		7.0-9.5	7	8	15	43	27	24	6	20	A-4a
		9.5-12.0	11	6	14	42	27	24	7	11	A-4a
92+50	CL	0.8-5.0	0	1	10	35	54	49	25	27	A-7-6
		5.0-8.0	7	4	11	45	33	31	12	26	A-6a
		8.0-11.0	12	7	12	40	29	28	11	24	A-6a
		11.0-15.0	9	8	13	40	30	21	7	12	A-4a
		15.0-20.0	0	1	2	27	70	37	16	[illegible]	A-6b
94+00	CL	1.5-5.3	0	2	6	32	60	49	24	30	A-7-6
		5.3-9.5	3	5	13	42	37	29	11	22	A-6a
		9.5-15.0	7	8	13	45	27	20	4	12	A-4a
97+00	CL	1.0-5.0	11	6	13	32	38	30	12	25	A-6a
		5.0-10.0	7	9	15	36	33	23	5	14	A-4a
		10.0-11.0	19	17	26	18	20	NP	NP	15	A-4a
		11.0-15.0	7	9	16	38	30	22	8	12	A-4a
100+00	CL	0.8-5.0	12	10	15	34	29	25	7	13	A-4a
		5.0-10.0	9	10	16	33	32	22	5	20	A-4a
		10.0-12.0	8	9	16	39	28	19	3	11	A-4a
104+00	CL	1.0-5.0	0	1	5	38	56	47	25	29	A-7-6
		5.0-10.0	0	2	6	33	59	41	15	25	A-7-6
		10.0-13.0	9	9	14	35	33	23	6	11	A-4a
108+00	CL	0.8-5.0	1	2	10	37	50	35	14	25	A-6a
		5.0-9.0	8	5	13	42	32	29	11	26	A-6a
		9.0-12.0	8	9	15	39	29	25	6	14	A-4a
111+00	CL	0.8-5.0	4	5	10	42	39	34	13	24	A-6a*
		5.0-10.5	6	7	14	40	33	28	11	20	A-6a
		10.0-12.0	10	9	16	41	24	21	6	11	A-4a
115+00	CL	0.8-5.0	0	3	9	37	51	41	16	27	A-7-6*
		5.0-8.0	5	4	14	38	39	36	17	29	A-6b
		8.0-12.0	6	7	12	50	25	26	8	13	A-4b
118+00	CL	0.0-5.0	20	8	13	32	27	24	6	16	A-4a
		5.0-10.0	24	8	14	27	27	22	6	14	A-4a
		10.0-15.0	11	10	16	36	27	20	6	13	A-4a
		15.0-20.0	10	10	15	39	26	20	5	10	A-4a
121+00	CL	1.2-6.0	0	2	7	27	64	49	20	26	A-7-6
		6.0-10.5	26	7	12	30	25	23	7	14	A-4a
		10.5-14.0	11	8	15	37	29	20	3	11	A-4a
125+00	CL	0.8-6.0	0	1	5	39	55	53	28	29	A-7-6
		6.0-9.5	4	7	14	39	36	27	11	19	A-6a
		9.5-15.0	9	9	15	39	28	22	8	9	A-4a
129+00	CL	0.6-6.0	4	2	11	35	48	42	21	26	A-7-6
		6.0-11.0	14	8	14	37	27	23	6	16	A-4a
		11.0-14.0	8	7	13	39	33	21	5	12	A-4a
134+00	CL	1.2-6.0	0	2	7	33	58	45	20	25	A-7-6
		6.0-9.0	20	5	11	32	32	29	11	27	A-6a
		9.0-11.5	10	9	15	38	28	21	4	12	A-4a
		11.5-14.0	14	6	12	35	33	20	3	10	A-4a
138+00	CL	0.8-6.0	6	7	14	40	33	31	13	18	A-6a
		6.0-9.0	14	8	14	35	29	24	6	16	A-4a
		9.0-14.0	12	8	15	36	29	21	6	11	A-4a
142+00	CL	1.3-6.0	14	8	14	33	31	23	7	15	A-4a
		6.0-11.5	7	9	15	36	33	23	5	16	A-4a
146+00	CL	0.8-6.0	8	1	14	50	27	25	4	13	A-4b
		6.0-10.0	20	9	14	30	27	23	5	15	A-4a
		10.0-14.0	8	10	16	38	28	21	6	12	A-4a
149+50	CL	1.4-5.5	0	4	5	40	51	46	18	30	A-7-6
		5.5-10.0	6	5	11	45	33	29	11	26	A-6a
		10.0-11.0	11	8	14	37	30	20	5	13	A-4a
151+00	CL	1.0-4.0	0	1	3	44	52	53	29	26	A-7-6
		4.0-7.0	5	5	8	37	45	35	11	25	A-6a
		7.0-10.0	15	3	14	41	27	21	5	14	A-4a
		10.0-14.0	8	8	13	41	30	22	6	12	A-4a
155+50	CL	1.5-5.5	0	2	5	32	61	54	30	27	A-7-6
		5.5-9.5	0	2	7	45	46	51	26	28	A-7-6
160+00	CL	1.5-6.0	16	1	5	29	49	55	30	30	A-7-6
		6.0-11.0	0	3	9	36	52	47	23	32	A-7-6
163+50	CL	1.5-5.5	0	4	9	32	55	48	22	29	A-7-6
		5.5-11.0	15	10	13	30	32	31	12	16	A-6a
167+00	CL	0.8-4.0	21	13	13	24	29	37	16	20	A-6b
		4.0-9.0	0	1	8	50	41	33	20	22	A-6b
170+00	CL	1.2-4.5	0	1	9	38	52	41	17	23	A-7-6
		4.5-9.5	0	1	9	47	43	39	18	24	A-6b
173+00	CL	1.2-4.5	0	1	9	43	47	40	19	26	A-6b
		4.5-9.5	0	5	10	42	43	35	13	26	A-6a
176+00	CL	0.4-5.0	16	7	11	34	32	27	11	26	A-6a
		5.0-9.0	15	10	13	33	29	51	35	14	A-7-6
		9.0-15.0	16	8	13	35	28	21	5	14	A-4a
179+00	CL	0.4-4.0	0	2	2	63	33	44	21	27	A-7-6
		4.0-8.0	18	8	13	28	33	24	7	27	A-4a
		8.0-13.0	17	8	11	35	29	20	4	10	A-4a
		13.0-15.0	16	6	11	41	26	20	3	12	A-4a
181+00	CL	0.4-5.0	29	5	11	24	31	30	11	19	A-6a
		5.0-8.0	18	7	12	28	35	25	11	19	A-6a
		8.0-11.0	17	9	12	34	28	23	6	13	A-4a
		11.0-14.0	26	7	41	13	13	NP	NP	17	A-2-4
		14.0-18.0	58	21	8	5	8	16	3	8	A-1-a
185+00	CL	0.4-3.0	0	2	7	41	50	39	20	27	A-6b
		3.0-7.0	0	5	13	41	41	28	11	27	A-6a
		7.0-10.0	18	9	14	28	31	22	5	16	A-4a
		10.0-15.0	67	17	6	1	5	NP	NP	11	A-1-a
188+85	CL	0.4-5.0	7	4	10	27	52	40	19	23	A-6b
		5.0-7.0	18	11	13	25	33	23	7	12	A-4a
		7.0-12.0	0	1	4	74	21	NP	NP	22	A-4b
		12.0-15.0	11	4	8	50	27	NP	NP	21	A-4b
		15.0-20.0	20	9	13	30	28	20	3	14	A-4a
191+00	CL	0.4-3.0	0	3	14	37	46	35	15	21	A-6a
		3.0-8.0	6	8	9	41	36	26	11	17	A-6a
		8.0-10.0	8	10	12	9	61	44	20	25	A-7-6
		10.0-14.0	3	3	9	50	35	22	3	17	A-4b
		14.0-16.0	8	8	13	44	27	22	6	16	A-4a
194+00	CL	0.4-5.0	6	9	13	35	37	30	12	12	A-6a
		5.0-8.0	16	7	14	35	28	24	6	15	A-4a
		8.0-10.0	19	7	13	33	28	22	5	10	A-4a
		10.0-12.0	0	6	13	64	17	NP	NP	19	A-4b
		12.0-15.0	0	4	3	33	60	38	17	24	A-6b
198+00	CL	0.4-3.0	15	2	6	33	44	44	14	28	A-7-5
		3.0-8.0	19	7	10	31	33	31	12	26	A-6a
		8.0-10.0	23	9	12	35	21	23	6	12	A-4a
		10.0-15.0	3	1	4	65	27	22	2	19	A-4b
		15.0-17.0	23	5	11	34	27	24	11	16	A-6a
202+00	CL	0.4-5.0	5	6	14	40	35	26	11	16	A-6a
		5.0-9.0	11	9	14	34	32	23	11	16	A-6a
		9.0-12.0	7	8	13	42	30	23	7	13	A-4a
205+00	CL	0.4-3.0	0	1	5	55	39	44	21	26	A-7-6
		3.0-8.0	4	6	12	48	30	32	13	27	A-6a
		8.0-13.0	10	8	13	47	22	21	4	12	A-4a
208+00	CL	0.4-5.0	10	10	16	40	24	25	6	15	A-4a
		5.0-8.0	9	9	9	47	26	28	11	15	A-6a
		8.0-13.0	7	6	9	59	19	24	6	12	A-4b
		13.0-15.0	8	3	6	36	47	27	11	21	A-6a
212+00	CL	0.4-3.0	11	2	9	42	36	32	11	23	A-6a
		3.0-7.0	14	10	14	30	32	26	11	19	A-6a
		7.0-9.0	15	9	13	40	23	24	11	13	A-6a
		9.0-15.0	7	9	15	37	32	21	11	12	A-6a
216+00	CL	0.4-4.0	8	6	17	39	30	29	11	21	A-6a
		4.0-7.0	8	16	16	27	33	26	6	28	A-4a
		7.0-12.0	9	8	13	41	29	21	6	16	A-4a
		12.0-15.0	0	2	5	60	33	22	5	18	A-4b
219+50	CL	0.4-2.0	0	3	15	39	43	30	11	26	A-6a
		2.0-5.0	7	6	15	34	38	31	13	24	A-6a
		5.0-9.0	13	9	15	40	23	23	6	15	A-4a
		9.0-14.0	13	11	17	33	26	22	7	13	A-4a
		14.0-20.0	12	8	13	42	25	21	4	13	A-4a
223+00	CL	0.4-3.0	24	8	14	36	18	26	8	16	A-4a
		3.0-8.0	20	8	14	33	25	25	8	15	A-4a
		8.0-9.0	7	8	14	51	20	22	4	11	A-4a
		9.0-11.0	31	34	18	8	9	NP	NP	15	A-1-b
		11.0-15.0	22	9	13	43	13	22	7	14	A-4a
225+00	CL	0.4-4.0	0	3	5	55	37	29	7	27	A-4b
		4.0-8.0	4	7	12	53	24	24	3	21	A-4b
		8.0-10.0	11	8	15	39	27	21	7	13	A-4a
		10.0-15.0	16	10	13	41	20	20	4	13	A-4a
229+00	CL	0.4-5.0	13	8	11	29	39	32	12	30	A-6a
		5.0-8.0	21	9	14	28	28	21	5	14	A-4a
		8.0-10.0	53	14	12	10	11	-	-	12	A-1-a
		10.0-15.0	21	9	13	33	24	21	5	12	A-4a
233+00	CL	0.4-3.0	19	3	9	33	36	31	13	22	A-6a
		3.0-8.0	43	6	11	20	20	22	6	18	A-4a
		8.0-12.0	16	7	11	42	24	21	7	13	A-4a
		12.0-15.0	15	6	11	37	31	22	5	14	A-4a
236+00	CL	0.4-3.0	0	2	4	36	58	41	20	28	A-7-6
		3.0-7.0	13	8	11	36	32	29	11	23	A-6a
		7.0-12.0	9	5	9	50	27	23	7	14	A-4b
		12.0-15.0	21	7	11	39	22	20	3	13	A-4a
240+00	CL	0.4-3.0	0	3	8	35	54	44	33	26	A-7-6
		3.0-7.0	21	9	14	32	24	22	6	16	A-4a
		7.0-12.0	18	8	13	32	29	21	6	12	A-4a
		12.0-15.0	19	8	13	42	18	21	5	13	A-4a
244+00	CL	0.4-3.0	0	2	9	45	44	40	20	26	A-6b
		3.0-8.0	16	6	12	34	32	28	11	22	A-6a
		8.0-13.0	0	3	6	50	41	22	6	18	A-4b
		13.0-15.0	14	11	13	31	31	23	7	14	A-4a
248+00	CL	0.4-3.0	0	2	10	37	51	40	20	25	A-6b
		3.0-8.0	19	5	12	33	31	28	11	32	A-6a
		8.0-11.0	0	1	7	50	42	23	7	19	A-4b
		11.0-15.0	24	9	11	31	25	22	6	13	A-4a
252+00	CL	0.4-4.0	0	2	4	62	32	43	24	25	A-7-6
		4.0-8.0	23	9	12	28	28	24	6	19	A-4a
		8.0-13.0	27	9	13	27	24	20	4	13	A-4a
		13.0-15.0	23	11	13	21	32	21	6	13	A-4a
256+00	CL	0.4-3.0	0	1	5	42	52	39	17	26	A-6b
		3.0-6.0	23	9	14	28	26	22	5	18	A-4a
		6.0-11.0	24	9	12	32	23	20	3	12	A-4a
		11.0-13.0	18	8	10	38	26	18	1	14	A-4a
		13.0-16.0	0	6	9	50	35	NP	NP	23	A-4b
		16.0-17.0	24	1	8	54	13	21	5	11	A-4b
259+00	CL	0.4-2.0	0	2	5	42	51	46	25	28	A-7-6
		2.0-7.0	14	5	8	50	23	26	5	23	A-4b
		7.0-9.0	13	4	10	50	23	18	1	21	A-4b
		9.0-12.0	17	8	11	35	29	21	4	11	A-4a
263+00	CL	0.4-3.0	16	7	4	39	34	29	11	22	A-6a
		3.0-6.0	17	10	15	28	30	21	4	14	A-4a
		6.0-7.0	33	9	11	24	23	23	7	18	A-4a
		7.0-10.0	24	9	13	26	28	21	6	11	A-4a
		10.0-15.0	17	7	14	33	29	22	5	11	A-4a
266+75	CL	0.4-3.0	0	2	7	38	53	42	21	24	A-7-6
		3.0-7.0	8	5	12	37	38	31	11	28	A-6a
		7.0-9.0	20	9	14	32	25	20	4	13	A-4a
		9.0-12.0	38	7	10	27	18	19	4	13	A-4a
270+30	CL	0.4-5.0	0	5	12	38	45	34	14	27	A-6a
		5.0-9.0	18	9	14	32	27	20	4	15	A-4a
		9.0-12.0	19	10	13	32	26	21	6	13	A-4a
274+00	CL	0.4-5.0	14	8	12	28	38	29	11	16	A-6a*
		5.0-10.0	22	10	13	24	31	22	5	16	A-4a
		10.0-12.0	14	6	13	39	28	18	2	13	A-4a
277+00	CL	0.4-3.0	0	1	4	40	55	49	29	27	A-7-6
		3.0-8.0	17	10	12	32	29	26	7	19	A-4a
		8.0-12.0	22	6	10	24	38	24	11	16	A-6a
281+00	CL	0.4-3.0	0	3	7	39	51	37	18	22	A-6b
		3.0-6.0	25	10	13	26	26	25	7	20	A-4a
		6.0-9.0	21	9	12	32	26	18	2	14	A-4a
		9.0-12.0	13	8	13	36	30	22	6	17	A-4a
285+00	CL	0.4-3.0	0	6	11	50	33	27	7	19	A-4b
		3.0-8.0	18	8	13	34	27	23	[illegible]	[illegible]	[illegible]
		8.0-12.0	6	4	9	50	31	21	4	16	A-4b
290+00	CL	0.4-4.0	0	2	6	32	60	44	23	24	A-7-6
		4.0-7.0	22	11	13	26	28	24	6	22	A-4a
		7.0-10.0	10	8	29	36	17	NP	NP	15	A-4a
		10.0-12.0	17	8	16	32	27	21	10	12	A-4a
293+00	CL	0.4-5.0	17	8	13	31	31	29	13	20	A-6a
		5.0-9.0	13	12	15	27	33	23	15	15	A-6a
		9.0-11.0	14	10	14	32	30	22	7	13	A-4a
		11.0-13.0	6	2	5	50	37	23	4	16	A-4a

ORCHARD GROVE ROAD

Station	Offset	Depth From-To	% Agg.	% C.S.	% F.S.	% Silt	% Clay	L.L.	P.I.	% W.C.	Soil Class.
10+00	12' Rt	0.8-5.0	12	10	15	32	31	44	18	21	A-7-6*
		5.0-7.0	17	11	14	31	27	23	6	18	A-4a
		7.0-10.0	17	11	14	29	29	22	3	15	A-4a
15+00	12' Lt	2.0-7.0	0	2	6	41	51	50	27	26	A-7-6*
		7.0-10.5	19	8	12	34	27	26	7	22	A-4a
		10.5-15.0	12	9	13	37	29	22	7	10	A-4a
20+00	10' Rt	3.0-8.0	8	3	12	29	48	43	19	21	A-7-6
		8.0-9.5	14	8	12	32	34	30	11	20	A-6a
		9.5-11.0	18	9	13	33	27	26	9	16	A-4a
		11.0-15.0	19	9	14	28	30	22	7	11	A-4a
		15.0-20.0	27	8	10	29	26	22	6	11	A-4a
25+00	12' Lt	2.5-6.5	10	3	10	35	42	37	17	23	A-6b
		6.5-11.0	20	10	12	30	28	23	6	16	A-4a
		11.0-15.0	20	7	12	33	28	21	5	12	A-4a
30+00	12' Rt	2.0-7.0	16	3	7	31	43	44	22	25	A-7-6*
		7.0-10.0	16	7	12	35	30	27	11	22	A-6a

* BORINGS TAKEN FROM CLI - GRE - 1 - (8.70)(0.00)

MICROFILMED SEP 13 1966

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

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SUMMARY OF SOIL TEST DATA (Cont'd)

NOTE: NP shown in Liquid Limit and Plasticity Index columns indicate that the material is non-plastic.
*Denotes sample taken at or near grade.

POWERS ROAD

STATION	OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
10+00	12'Rt	2.0-5.0	22	2	6	28	42	51	29	25	A-7-6 *
		5.0-10.0	20	3	8	33	36	34	17	27	A-6b
15+00	12'Lt	0.0-2.0	0	1	7	49	43	46	24	27	A-7-6 *
		2.0-6.0	12	2	8	42	36	34	15	26	A-6a *
		6.0-10.0	29	5	9	31	26	20	11	20	A-6a
		10.0-15.0	17	9	12	40	22	22	7	13	A-4a
20+00	12'Rt	1.0-5.5	0	3	18	37	42	36	19	26	A-6b *
		5.5-8.0	24	8	12	33	23	25	6	21	A-4a
		8.0-14.0	18	8	13	31	30	23	7	11	A-4a
		14.0-20.0	18	8	12	38	24	20	4	12	A-4a
25+00	12'Lt	1.0-5.0	21	2	6	35	36	44	22	25	A-7-6 *
		5.0-7.0	14	6	10	36	34	34	13	27	A-6a
		7.0-11.0	18	8	13	34	27	23	5	19	A-4a
		11.0-15.0	19	10	13	29	29	21	6	12	A-4a
30+00	12'Rt	1.0-5.0	0	2	7	42	49	48	25	26	A-7-6 *
		5.0-7.0	26	10	12	29	23	25	7	17	A-4a
		7.0-10.0	0	6	10	19	35	35	15	22	A-6a

SMITH ROAD

STATION	OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
10+00	12'Rt	0.0-5.0	13	2	8	37	40	42	19	26	A-7-6 *
		5.0-10.0	0	5	14	37	44	36	17	27	A-6b
15+00	12'Lt	0.0-5.0	12	2	7	33	46	47	23	25	A-7-6
		5.0-11.0	15	7	11	32	35	29	13	17	A-6a
		11.0-15.0	23	8	13	30	26	22	7	13	A-4a
20+00	12'Rt	0.0-5.0	23	10	15	30	22	23	8	14	A-4a
		5.0-10.0	27	9	12	27	25	23	7	14	A-4a
		10.0-15.0	15	5	9	36	35	23	11	15	A-6a
		15.0-20.0	8	5	8	56	23	22	5	14	A-4b
25+00	12'Lt	1.0-5.0	0	9	12	38	41	32	12	24	A-6a
		5.0-10.0	3	3	6	39	49	33	11	24	A-6a
		10.0-15.0	7	2	15	57	19	22	7	9	A-4b
30+00	12'Rt	0.0-1.5	—	—	—	—	—	—	—	12	A-4a *
		1.5-6.0	0	2	10	63	25	38	18	29	A-6b
		6.0-10.0	2	2	8	38	50	41	18	31	A-7-6

COUNTY ROAD 13

STATION	OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
6+00	12'Rt	0.4-2.0	0	2	7	53	38	48	25	27	A-7-6 *
		2.0-7.0	9	4	12	54	21	32	12	27	A-6a *
		7.0-9.0	14	8	12	51	15	20	5	15	A-4b
		9.0-11.0	67	10	6	13	4	19	5	12	A-1-b
10+00	12'Lt	0.4-2.0	0	3	10	54	33	42	18	25	A-7-6
		2.0-4.0	0	2	9	58	31	31	5	27	A-4b
		4.0-8.0	13	5	11	50	21	30	10	27	A-4b
		8.0-10.0	17	10	14	48	11	22	6	13	A-4a

COUNTY ROAD 13 (Cont'd)

STATION	OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
15+00	12'Rt	0.4-5.0	22	6	10	43	19	28	11	18	A-6a
		5.0-8.0	12	8	13	55	12	26	9	22	A-4b
		8.0-11.0	40	3	10	40	7	22	8	13	A-4a
		11.0-13.0	10	6	14	56	14	NP	NP	14	A-4b
		13.0-15.0	0	4	35	51	10	NP	NP	19	A-4b
		15.0-17.0	5	2	8	67	18	21	3	17	A-4b
		17.0-20.0	13	7	10	50	20	22	8	18	A-4b
20+00	12'Lt	0.4-5.0	0	8	11	44	37	47	15	26	A-7-5
		5.0-10.0	29	7	12	29	23	20	5	12	A-4a
		10.0-13.0	21	8	12	36	23	18	3	10	A-4a
		13.0-16.0	0	2	7	58	33	22	2	23	A-4b
		16.0-20.0	16	9	15	39	21	17	4	17	A-4a
		20.0-22.0	14	10	13	38	25	22	5	13	A-4a
25+00	12'Rt	0.4-2.0	0	3	5	39	53	48	20	31	A-7-6
		2.0-5.0	0	2	7	39	52	36	12	29	A-6a
		5.0-8.0	20	9	14	32	25	24	7	21	A-4a
		8.0-10.0	17	7	14	35	27	22	7	12	A-4a
		10.0-15.0	12	9	14	36	29	21	6	13	A-4a
30+00	12'Lt	0.4-2.0	9	2	8	39	42	40	17	26	A-6b *
		2.0-7.0	17	8	13	31	31	27	10	20	A-4a *
		7.0-10.0	17	8	12	37	26	22	7	14	A-4a

JENKS ROAD

STATION	OFFSET	DEPTH FROM-TO	% AGG.	% C.S.	% F.S.	% SILT	% CLAY	L.L.	P.I.	% W.C.	SHTL CLASS.
10+00	12'Rt	0.4-3.0	24	7	10	27	32	29	11	21	A-6a *
		3.0-6.0	25	7	11	29	28	28	11	20	A-6a
		6.0-8.0	16	9	12	33	30	23	6	15	A-4a
		8.0-10.0	0	4	6	55	35	22	4	14	A-4b
15+00	12'Lt	0.4-3.0	5	1	5	49	40	42	18	26	A-7-6
		3.0-6.0	18	7	13	31	31	31	13	27	A-6a
		6.0-10.0	31	7	11	28	23	23	6	19	A-4a
		10.0-13.0	21	9	14	32	24	21	5	13	A-4a
		13.0-15.0	22	8	13	36	21	23	8	12	A-4a
20+00	12'Rt	0.4-4.0	6	4	11	38	41	35	13	25	A-6a
		4.0-7.0	18	7	12	36	27	24	7	17	A-4a
		7.0-9.0	25	9	12	32	22	22	6	12	A-4a
		9.0-11.0	31	8	12	26	23	20	6	12	A-4a
		11.0-13.0	9	5	17	58	11	NP	NP	13	A-4b
		13.0-18.0	5	6	14	63	12	NP	NP	21	A-4b
		18.0-23.0	6	3	7	65	19	NP	NP	23	A-4b
		23.0-25.0	22	9	16	37	16	22	5	14	A-4a
25+00	12'Lt	0.4-4.0	0	2	7	56	35	39	17	26	A-6b
		4.0-7.0	16	10	13	42	19	24	7	21	A-4a
		7.0-9.0	18	6	13	47	16	20	1	15	A-4a
		9.0-11.0	11	3	38	40	8	NP	NP	22	A-4a
		11.0-15.0	24	8	14	40	14	21	4	11	A-4a
30+00	12'Rt	0.4-5.0	5	5	11	53	26	33	14	22	A-6a *
		5.0-10.0	13	7	13	47	20	24	6	19	A-4a
		10.0-12.0	20	5	8	50	17	23	6	21	A-4b
		12.0-14.0	20	9	13	34	24	20	4	14	A-4a
		14.0-16.0	58	16	9	12	5	18	1	13	A-1-b

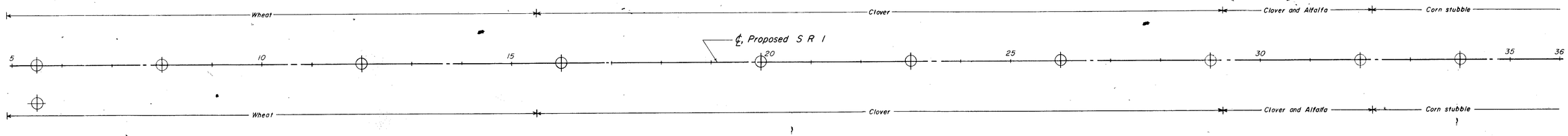
TE 54 B
1500 10 60

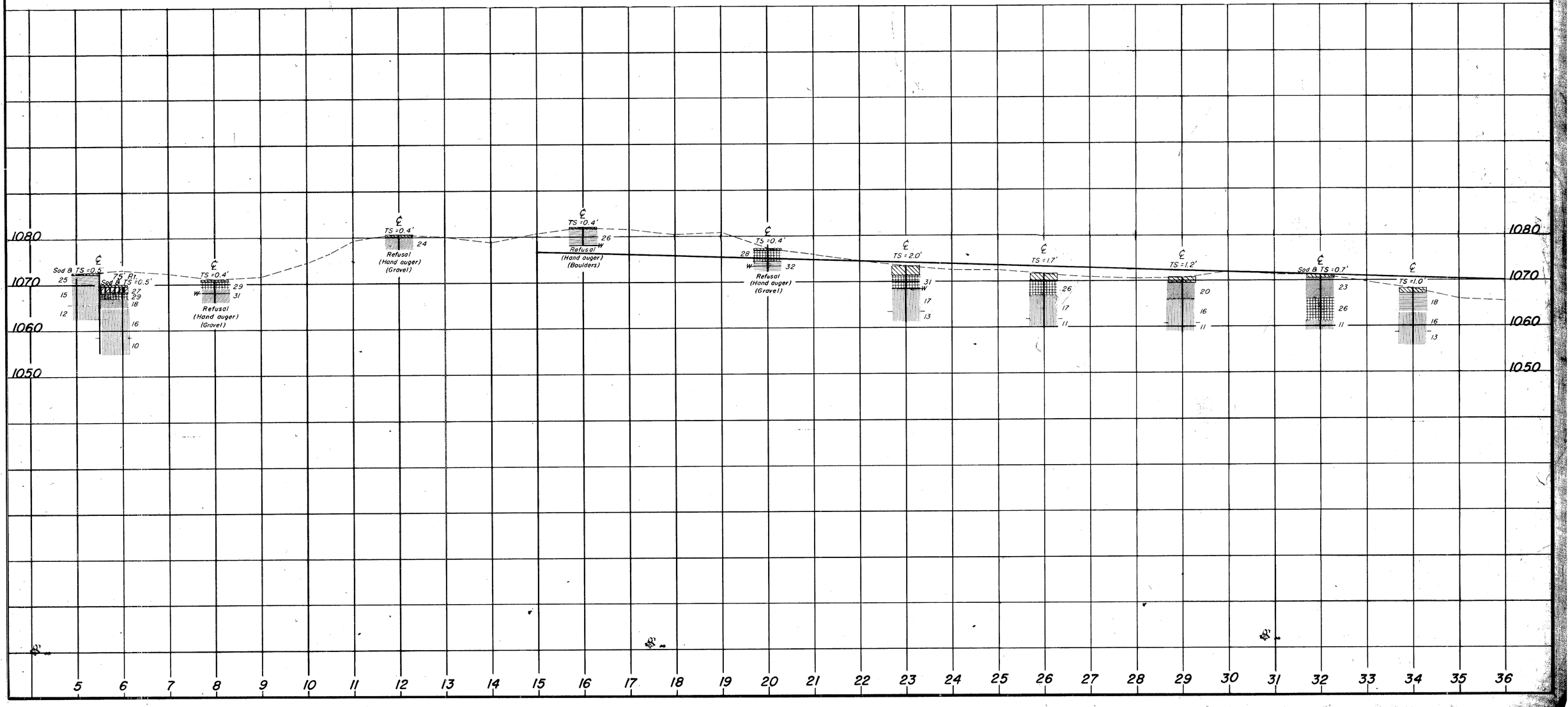
SOIL PROFILE

GREENE - FAYETTE COS.
GRE - I - 1.08
FAY - I - 0.00

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

4
17



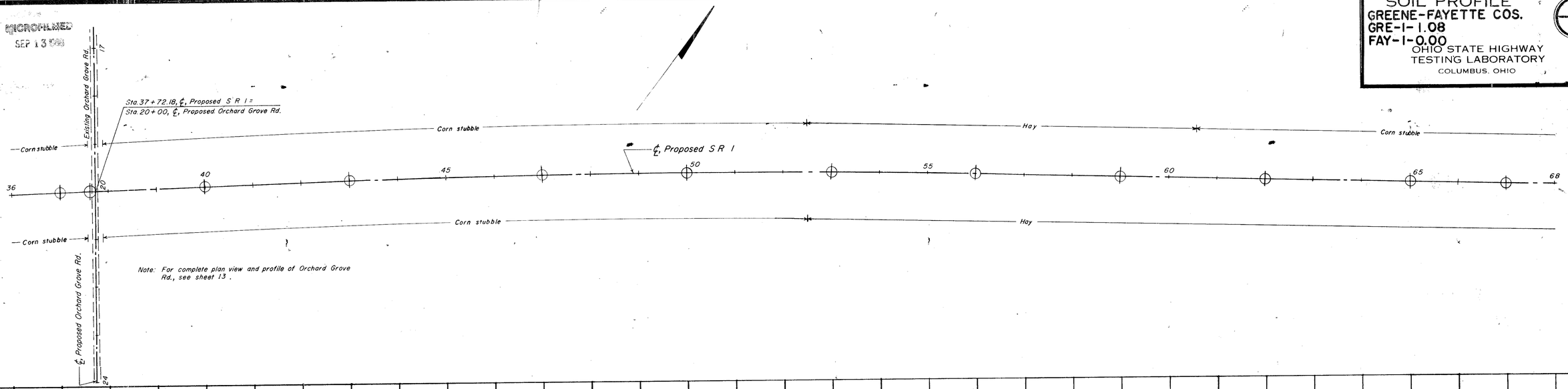


TE 54 B
1500 10 60

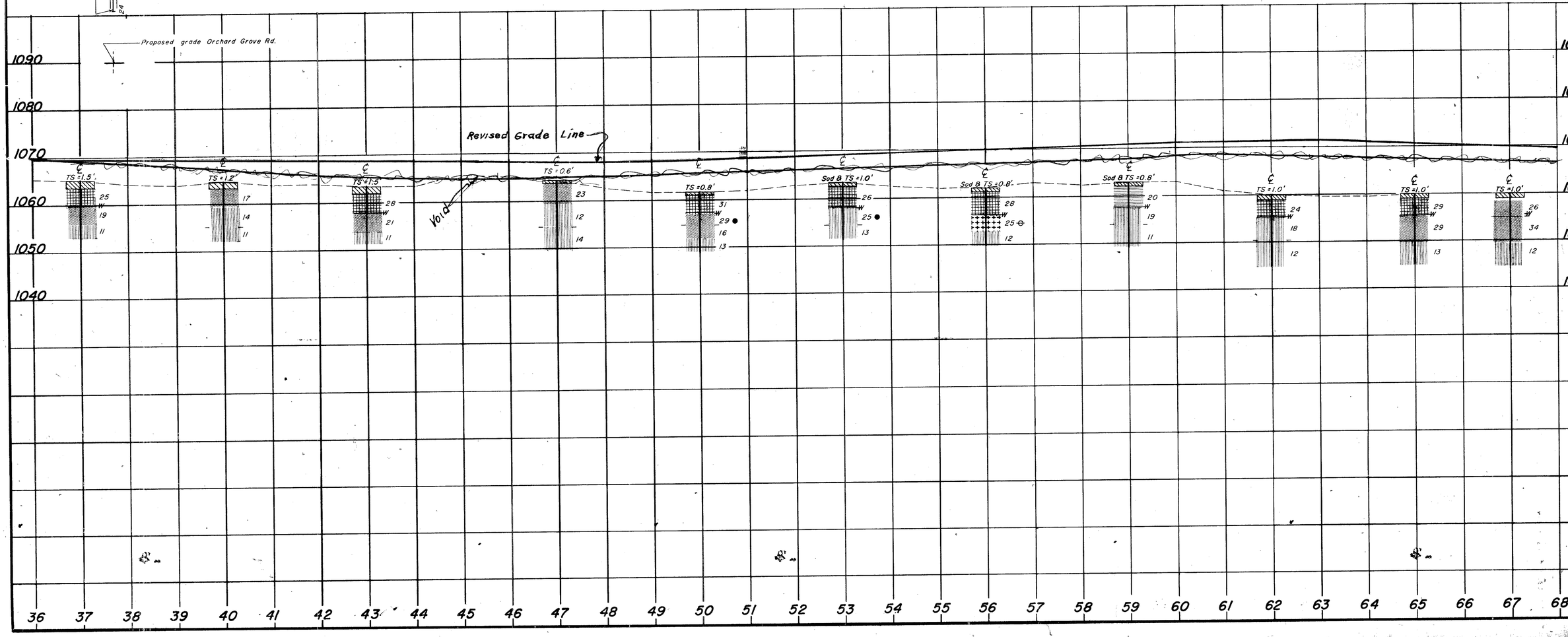
MICROFILMED
SEP 13 '93

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

5/17



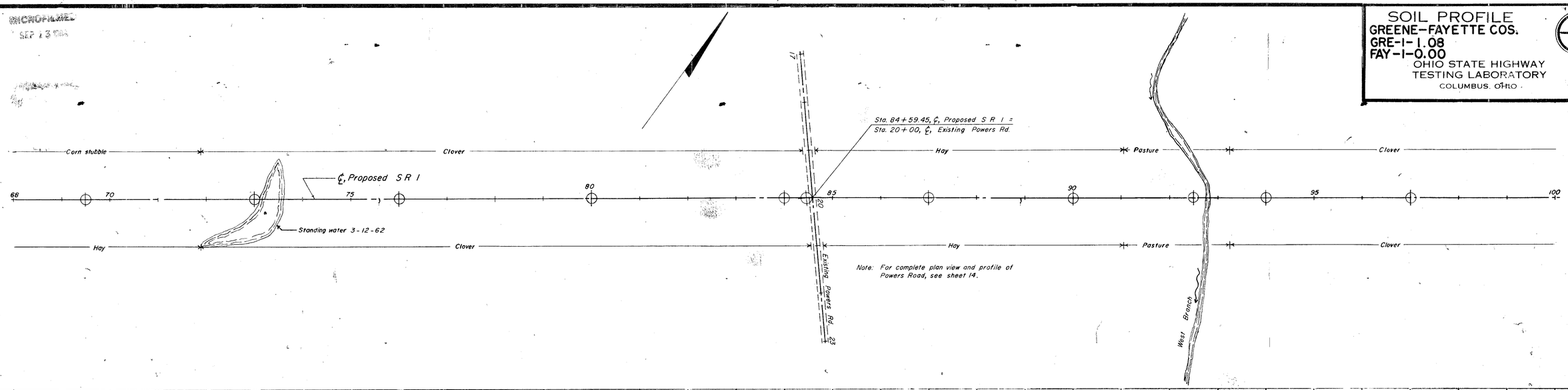
Note: For complete plan view and profile of Orchard Grove Rd., see sheet 13 .

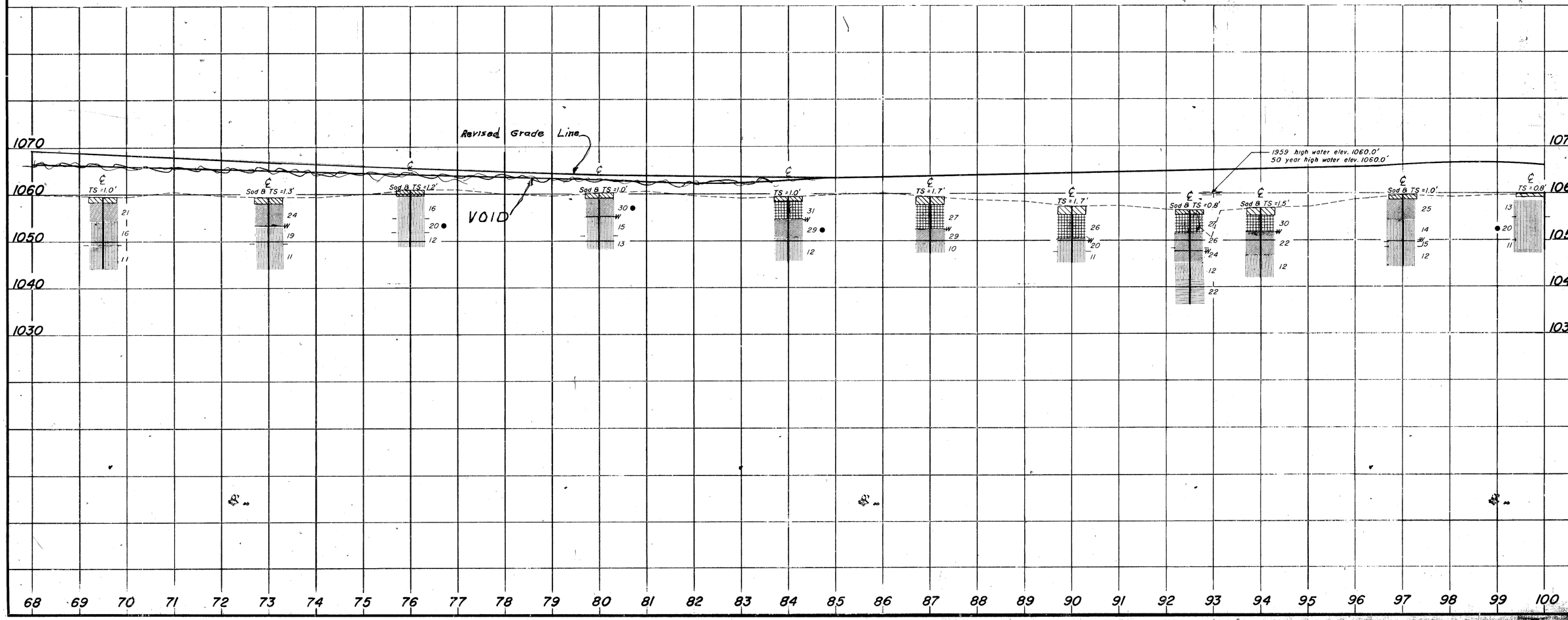


SOIL PROFILE
GREENE–FAYETTE COS.
GRE-I-1.08
FAY-I-0.00

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

6
17





TE 54 B
1500 10 60

MICROFILMED
SEP 13 '60

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

7/17

Clover — Hay — Pasture — Wheat — Cultivated

℄ Proposed Smith Rd.

Sta. 116+60.13, ℄, Proposed S R 1 =
Sta. 20+00, ℄, Proposed Smith Rd.

℄, Proposed S R 1

100 105 110 115 120 125 130 132

Existing Smith Rd.

Note: For complete plan view and profile of Smith Rd., see sheet 15.

Proposed grade Smith Rd.

1090 1080 1070 1060 1050 1040

℄ TS = 0.8' — 13 / 20 / 11

℄ TS = 1.0' — 26 / W / 25 / 11

℄ TS = 0.8' — 25 / W / 26 / 14

℄ TS = 0.8' — 24 / 20 / 11

℄ TS = 0.8' — 27 / W 29 / 13

℄ — 16 / 14 / 13 / 10

℄ TS = 1.2' — 26 / 14 / 11

℄ TS = 0.8' — 29 / W 19 / 9

℄ Sod & TS = 0.6' — 26 / 16 / 12

100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132

TE 54 B
1500 10 60

SOIL PROFILE

GREENE-FAYETTE COS.
GRE-I-1.08
FAY-I-0.00

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

8/17

Cultivated
℄ Proposed S R 1
Clover
Cultivated
Clover

132 135 140 145 150 155 160 164

Revised Grade Line

1070
1060
1050
1040

℄ TS = 1.2'
25 W 27 12 10

℄ TS = 0.8'
18 16 11

℄ TS = 1.3'
15 16
Refusal (Boulder)

VOID

℄ TS = 0.8'
13 15 12

℄ TS = 1.4'
30 W 26 13

℄ TS = 1.0'
26 W 25 14 12

℄ TS = 1.5
27 W 28
Refusal (Hand auger)

℄ TS = 1.4
30 W 32
Refusal (Hand auger)

℄ TS = 1.5
29 W 16
Refusal (Boulder)

132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164

TE 54 B
1500 10 60

MICROFILMED
SEP 13 19[illegible]

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

9/17

Clover | Corn stubble | Wheat stubble | Pasture

Greene Co. / Fayette Co.

Jefferson Twp. / Jasper Twp.

Grassy Branch

℄ Proposed S R 1

164 165 170 175 180 185 190 195

Clover | Corn stubble | Wheat stubble | Pasture

1080 1070 1060 1050 1040 1030

VOID

Revised Grade Line

℄ TS = 0.8'
20 W 22
Refusal (Hand auger)

℄ TS = 1.2'
23 W 24
Refusal (Hand auger)

℄ TS = 1.2'
26 W 26
Hand auger

℄ TS = 0.4'
26 W 14 14
Hole squeezed in at elev. 1054.2'

℄ TS = 0.4'
27 W 27 10 12
Hole caved in at elev. 1053.4'

℄ TS = 0.4'
19 19 13 W 17 8
Hole caved in at elev. 1057.5'

℄ TS = 0.4'
27 W 27 16 11
Hole caved in at elev. 1054.8'

℄ TS = 0.4'
23 12 22 W 21 14
Hole caved in at elev. 1044.2'

℄ TS = 0.4'
21 17 25 17 16

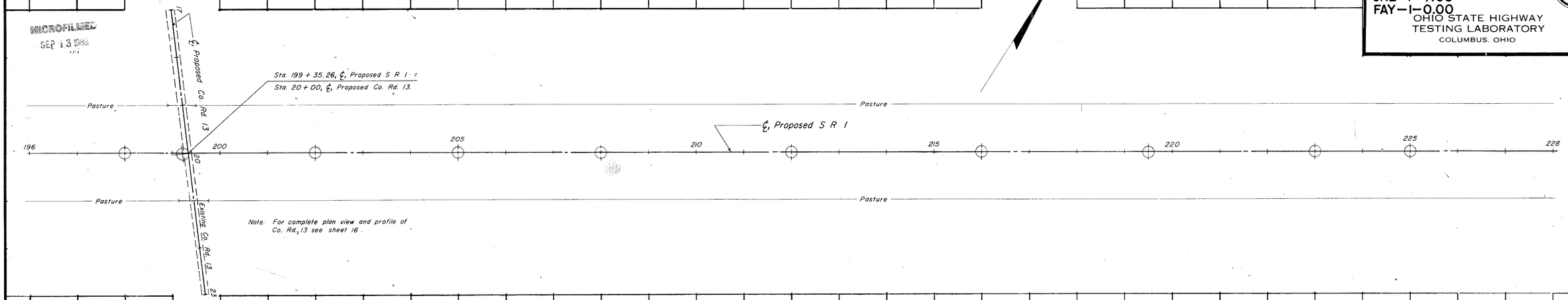
℄ TS = 0.4'
12 15 10 W 19 24

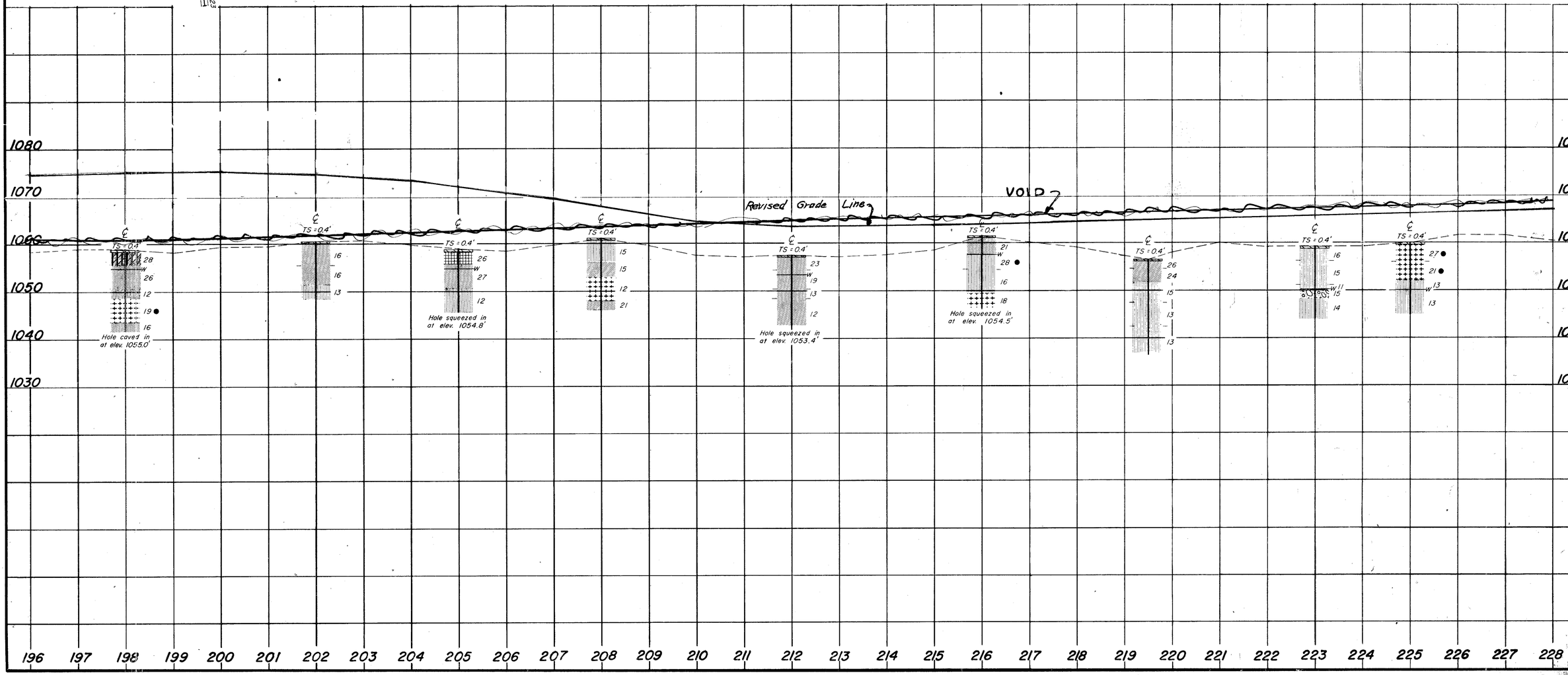
164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196

TE 54 B
1500 10 60

SOIL PROFILE
GREENE — FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

10
17





TF 54 B
1500 10 60

SOIL PROFILE
GREENE – FAYETTE COS.
GRE – 1 – 1.08
FAY – 1 – 0.00

OHIO STATE HIGHWAY TESTING LABORATORY
COLUMBUS, OHIO

11
17

Pasture | Cultivated | Wheat | Soybean stubble | Alfalfa

℄, Proposed S R 1

228 230 235 240 245 250 255 260

Pasture | Cultivated | Wheat | Soybean stubble | Alfalfa

1070 1060 1050 1040 1030

Revised Grade Line VOID

℄ TS = 0.4'
30 ● 14 W 12 12
Hole caved in at elev. 1052.4'

℄ TS = 0.4'
22 18 13 14

℄ TS = 0.4'
28 W 23 14 14
Hole squeezed in at elev. 1051.8'

℄ TS = 0.4'
26 16 W 12 13
Hole squeezed in at elev. 1048.5'

℄ TS = 0.4'
26 22 18 14
Hole caved in at elev. 1052.1'

℄ TS = 0.4'
25 W 32 ● 19 13
Hole squeezed in at elev. 1051.8'

℄ TS = 0.4'
25 W 19 13 13
Hole caved in at elev. 1050.6'

℄ TS = 0.4'
26 W 18 12 14 23 ⊖ 11
Hole caved in at elev. 1050.0'

℄ TS = 0.4'
28 W 23 ● 21 ● 11
Refusal (Boulders.) (Hole squeezed in at elev. 1049.7')

228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260

TE 54 B
1500 10 60

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

12/17

Alfalfa | Soybeans stubble | Wheat | Wheat stubble | Pasture | Wheat
Alfalfa | Soybeans stubble | Wheat | Wheat stubble | Hay | Wheat

Sta. 282+23.82, ℄, Proposed S R 1 =
Sta. 20+00, ℄, Proposed Jenks Rd.

℄ Proposed Jenks Rd (Twp. Rd. 83)
Existing Jenks Rd. (Twp. Rd. 83)

Note: For complete plan view and profile of Jenks Rd., see sheet 17.

Proposed grade Jenks Rd. (Twp. Rd. 83)

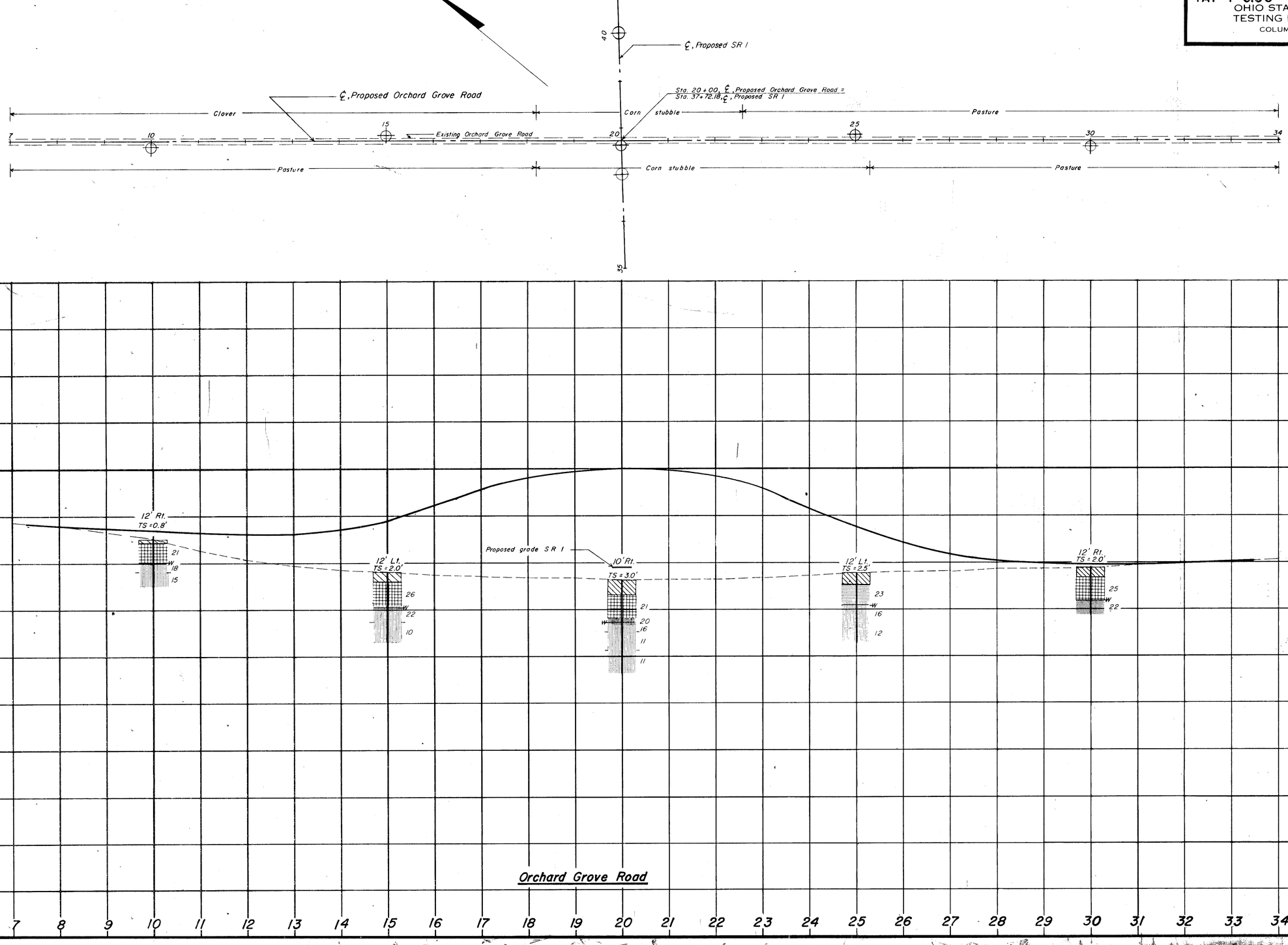
Wheat | Wheat

Hole caved in at elev. 1046.1'
Hole caved in at elev. 1049.4'
Hole caved in at elev. 1048.2'
Hole caved in at elev. 1048.2'
Hole caved in at elev. 1048.4'
Hole caved in at elev. 1045.7'
Hole caved in at elev. 1045.3'

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

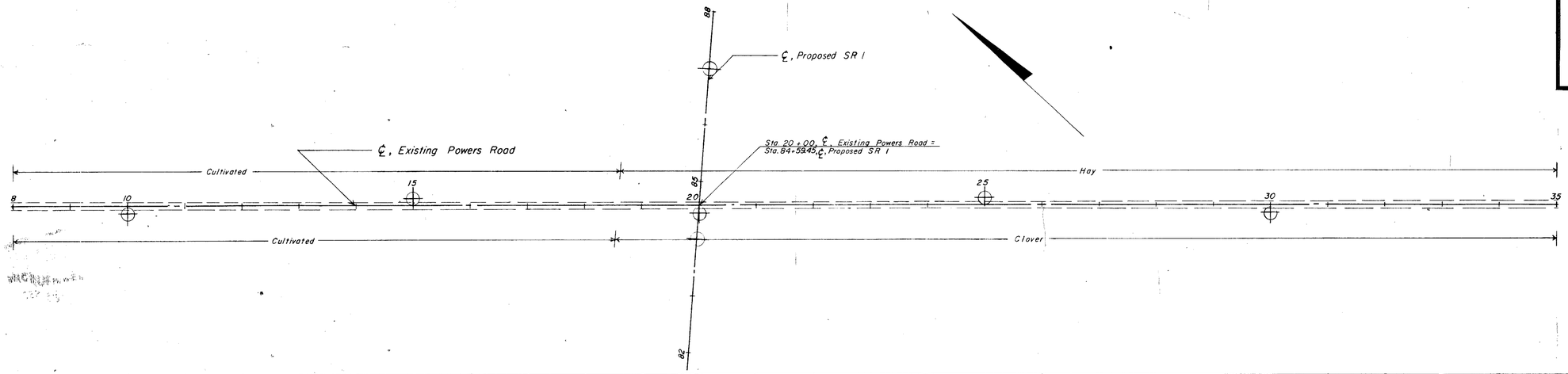
13
17

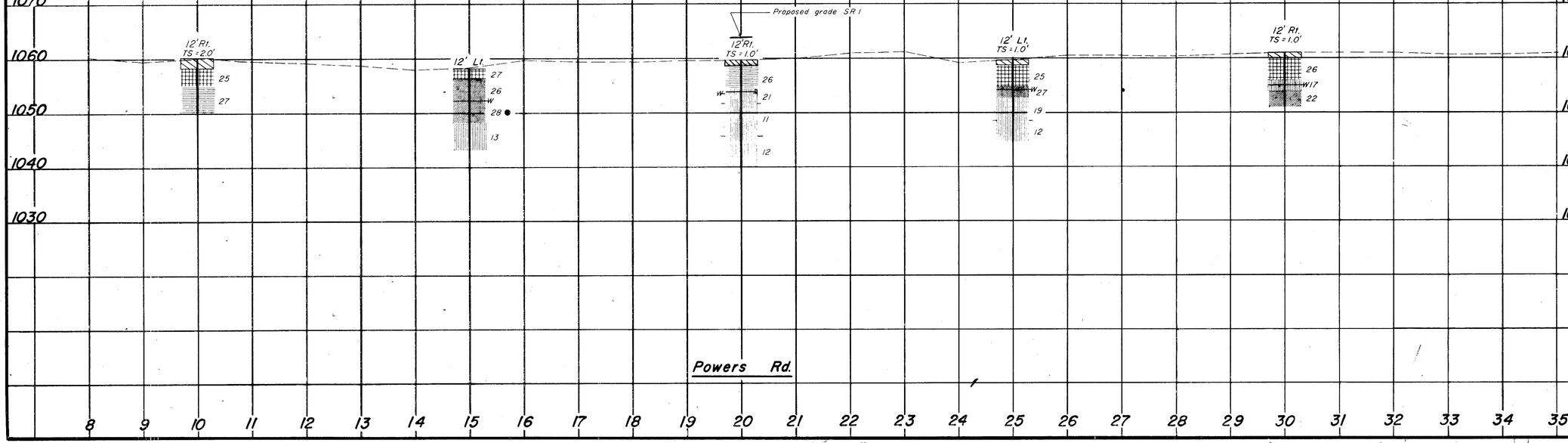


TE 54 B
1500 10 60

SOIL PROFILE
GREENE — FAYETTE COS.
GRE-1- 1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

14
17

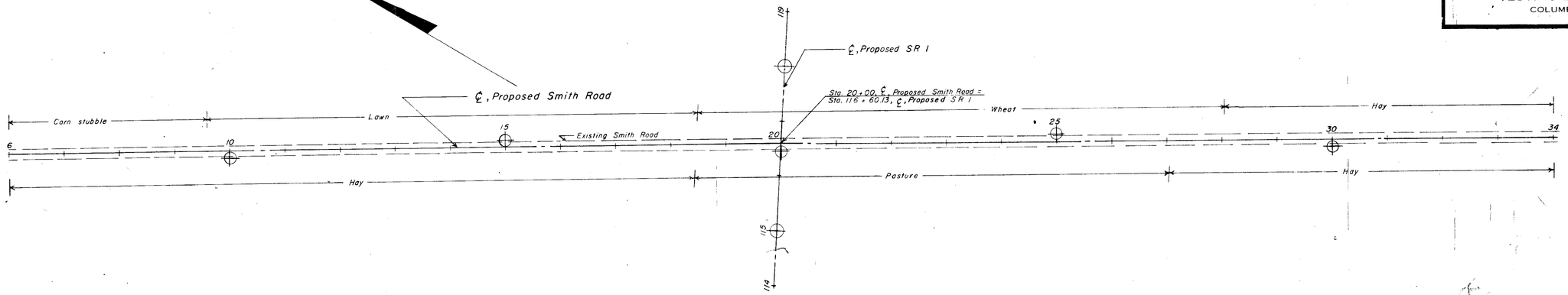




TE 54 B
1500 10 60

MICROFILMED
SEP 19

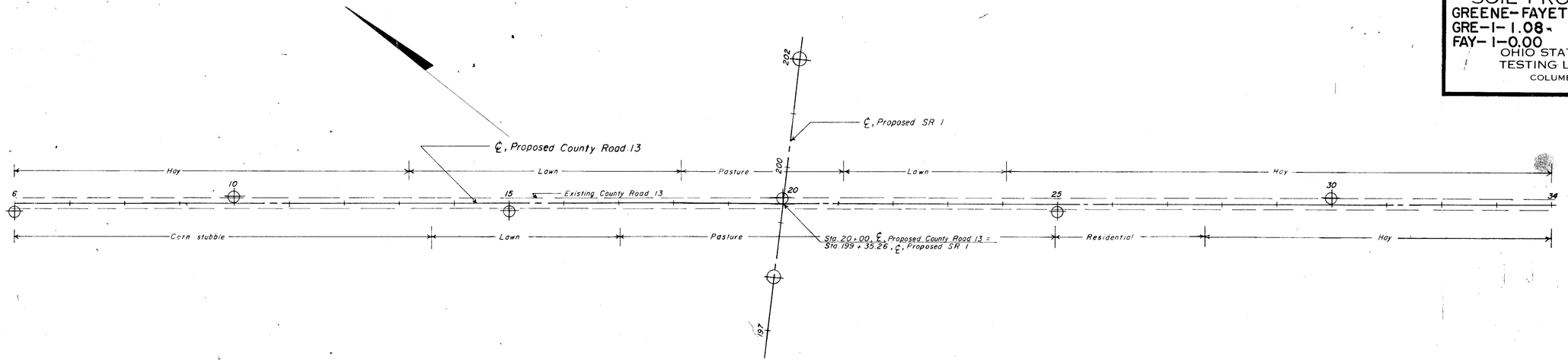
SOIL PROFILE
GREENE-FAYETTE COS.
GRE-1-1.08
FAY-1-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

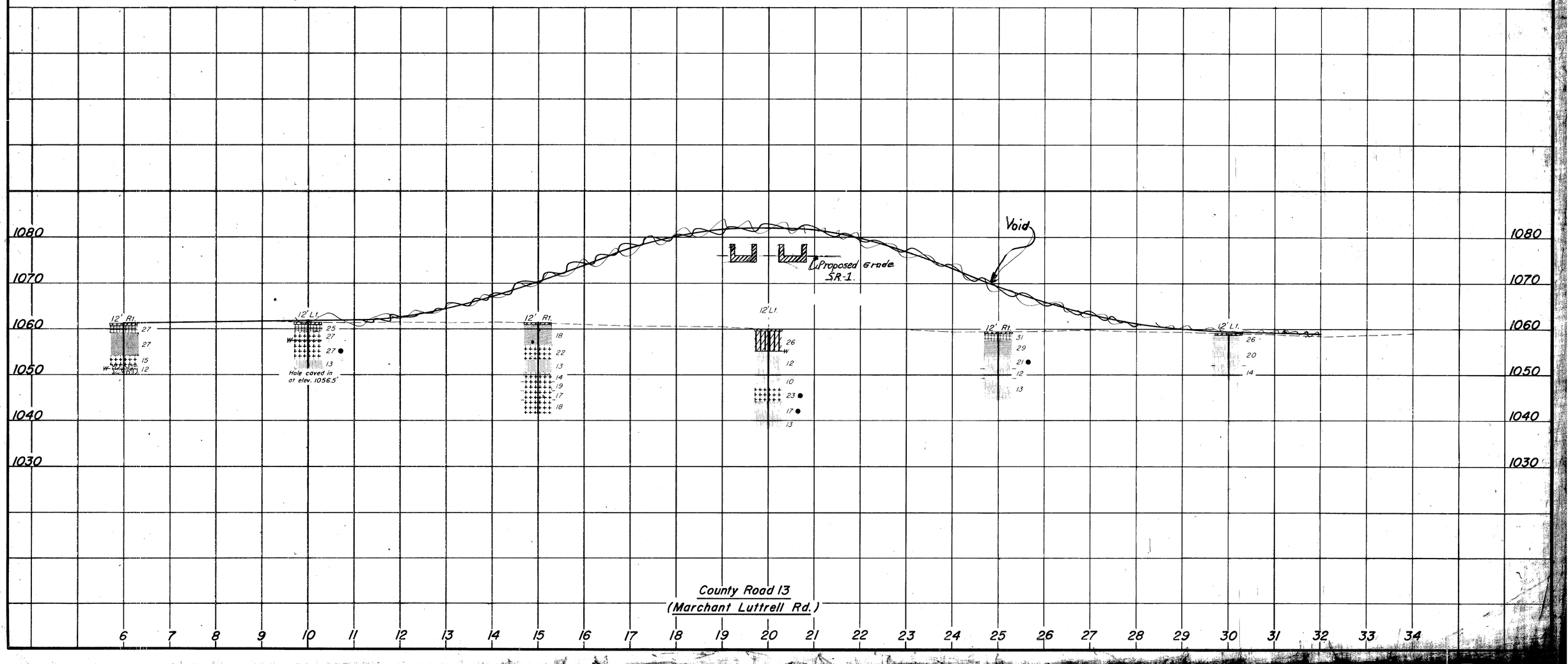


1090

SOIL PROFILE
GREENE-FAYETTE COS.
GRE-I-1.08
FAY-I-0.00
OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO

16
17





SOIL PROFILE
GREENE-FAYETTE COS.
GRE-I-1.08
FAY-I-0.00

OHIO STATE HIGHWAY
TESTING LABORATORY
COLUMBUS, OHIO