

# FRANKLIN COUNTY, OHIO OFFICE OF THE COUNTY ENGINEER

## S.R. 104 / STRINGTOWN ROAD

### CITY OF GROVE CITY JACKSON TOWNSHIP

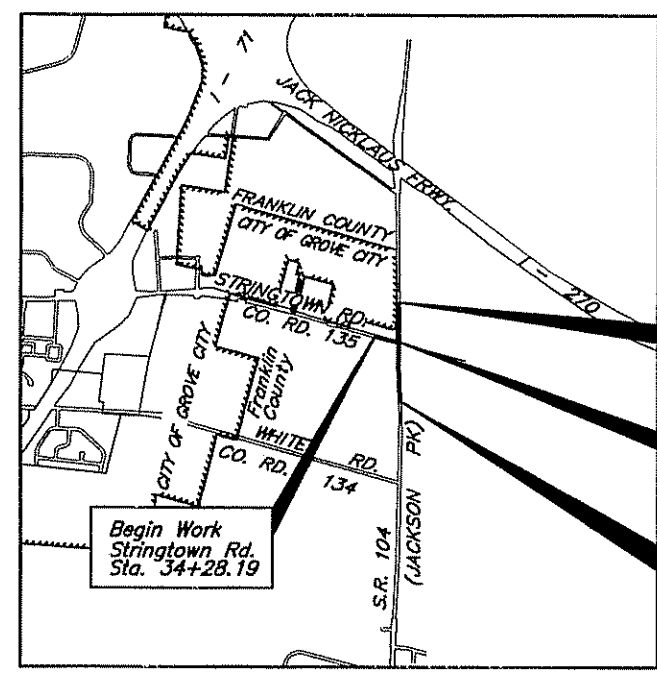
This Project consists of widening and resurfacing the existing pavement to provide for left turn lanes on Northbound S.R. 104 and Eastbound Stringtown Road. The project length is about 0.26 miles of 2 or 3 lanes.

This Project will include utility relocation, storm sewer, and traffic control.

#### 2002 SPECIFICATIONS

The current State of Ohio "Construction and Material Specifications" together with the requirements of Franklin County and Jackson Township, including all supplements thereto shall govern all materials and workmanship involved in this improvement.

I hereby approve these plans and declare that the construction of this improvement will require the closing to traffic of the street and that detours will be provided as indicated on the plans.



**LOCATION MAP**  
Scale: 1" = 2000'

Latitude: 39°52'33" N Longitude: 83°01'40" W

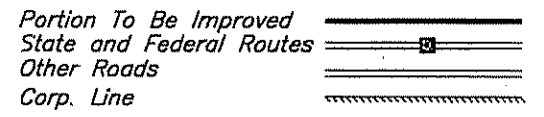


#### DESIGN DESIGNATION

<b>STRINGTOWN RD.</b>	<b>SR 104</b>
Current ADT (2003) = 4,800	Current ADT (2003) = 9,400
Design ADT (2023) = 10,000	Design ADT (2023) = 20,000
DHV (2003) = 470	DHV (2003) = 960
DHV (2025) = 1000	DHV (2025) = 2000
% T = 1.6%	% T = 1.0%
	% D = 60% NB

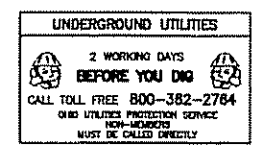
Legal Speed = 55 MPH (S.R. 104) 45 MPH (Stringtown Rd.)  
Design Speed = 60 MPH (Jackson Pike S.R. 104)  
50 MPH (Stringtown Road)

Functional Classification: Major Arterial (Jackson Pike S.R. 104)  
Minor Arterial (Stringtown Road)



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#### APPROVALS:

Signatures below signify only concurrence with the general purposes and general locations of the project. All technical details remain the responsibility of the design engineer.

<b>FRANKLIN COUNTY:</b>  Franklin County Chief Deputy Engineer	6-8-04 Date
 Franklin County Engineer	6-8-04 Date

We, The Commissioners of Franklin County, hereby approve these plans and certify that the right-of-way within Franklin County as shown on the plans is available for the construction, maintenance and repair of the highway.

	6-8-04 Date
	6-8-04 Date
	6-8-04 Date

Board of County Commissioners

#### SUPPLEMENTAL PRINTS OF STANDARD CONSTRUCTION DRAWINGS

#### OHIO DEPARTMENT OF TRANSPORTATION

BP-3.1	7-28-02	MT-99.20M	1-30-95
BP-4.1	7-28-02	MT-101.60	10-18-02
BP-5.1	7-28-02	MT-105.10	10-18-02
		MT-105.11	10-18-02
DM-1.1	7-19-02		
DM-1.2	7-19-02	TC-41.20	1-19-01
		TC-41.40	1-18-02
		TC-42.20	4-20-01
GR-1.1	4-18-03	TC-52.10	4-20-01
GR-2.1	4-18-03	TC-52.20	4-20-01
GR-4.2	4-18-03	TC-65.10	10-19-01
		TC-65.12	10-19-01
		TC-71.10	4-19-02
CB-1.1	7-19-02		
CB-2.2	7-19-02		
HW-2.2	7-19-02		

Plans Prepared By  
**EVANS, MECHWART, HAMBLETON & TILTON, INC.**  
170 Mill Street Gahanna, Ohio 43230

Seal

Ronald J. Haeger Jr.  
4-23-2004  
Date

Revisions			
Revision	Description	Date	Approval

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FEDERAL PROJECT NO.

PID NO.

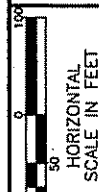
CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT

NONE

S.R. 104 /  
STRINGTOWN RD.

# SCHEMATIC PLAN



CALCULATED CDH  
CHECKED RJH

SCHEMATIC PLAN

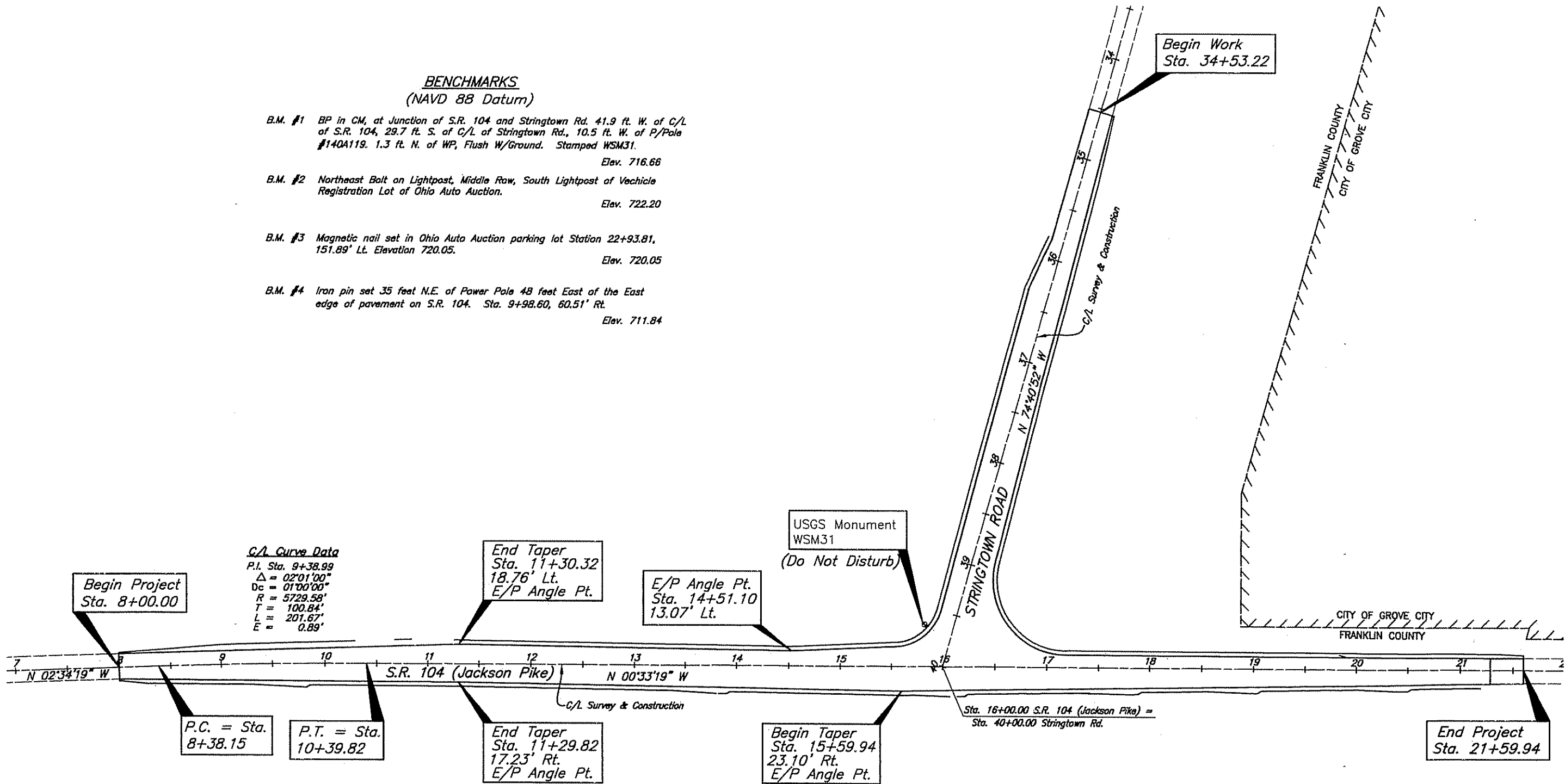
S.R. 104 / STRINGTOWN RD.

### BENCHMARKS (NAVD 88 Datum)

- B.M. #1 BP in CM, at Junction of S.R. 104 and Stringtown Rd. 41.9 ft. W. of C/L of S.R. 104, 29.7 ft. S. of C/L of Stringtown Rd., 10.5 ft. W. of P/Pole #140A119. 1.3 ft. N. of WP, Flush W/Ground. Stamped WSM31.  
Elev. 716.66
- B.M. #2 Northeast Bolt on Lightpost, Middle Row, South Lightpost of Vehicle Registration Lot of Ohio Auto Auction.  
Elev. 722.20
- B.M. #3 Magnetic nail set in Ohio Auto Auction parking lot Station 22+93.81, 151.89' Lt. Elevation 720.05.  
Elev. 720.05
- B.M. #4 Iron pin set 35 feet N.E. of Power Pole 48 feet East of the East edge of pavement on S.R. 104. Sta. 9+98.60, 60.51' Rt.  
Elev. 711.84

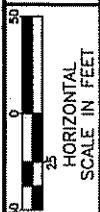
### C/A Curve Data

P.I. Sta. 9+38.99  
 $\Delta = 02^{\circ}01'00''$   
 $Dc = 01^{\circ}00'00''$   
 $R = 5729.58'$   
 $T = 100.84'$   
 $L = 201.67'$   
 $E = 0.89'$



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# STORM WATER POLLUTION PREVENTION PLAN



CALCULATED  
CDH  
CHECKED  
JA

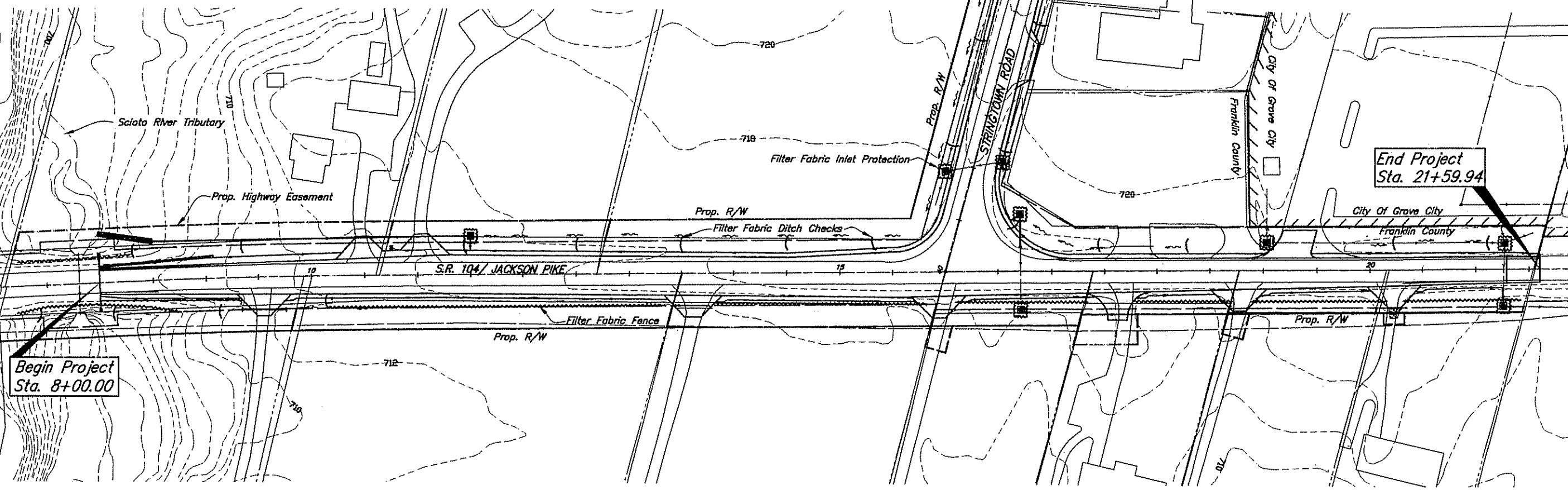
STORM WATER POLLUTION PREVENTION PLAN

S.R. 104 /  
STRINGTOWN RD.

3  
37

Begin Work  
Sta. 34+28.19

End Project  
Sta. 21+59.94



**LEGEND:**

	STORM SEWER INLET PROTECTION
	C/L OF EXISTING DRAINAGE DITCH
	C/L OF PROPOSED DRAINAGE DITCH
	PROPOSED FILTER FABRIC FENCE
	FILTER FABRIC DITCH CHECK

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Begin Project  
Sta. 8+00.00

Scioto River Tributary

Prop. Highway Easement

S.R. 104 / JACKSON PIKE

Prop. R/W

Filter Fabric Fence

Prop. R/W

Filter Fabric Ditch Checks

Filter Fabric Inlet Protection

Prop. R/W

STRINGTOWN ROAD

City of Grove City  
Franklin County

City Of Grove City  
Franklin County

**SWPPP NARRATIVE**

**PLAN DESIGNER**

Evans, Mechwart, Hambleton, & Tilton, Inc  
170 Mill Street  
Gahanna, Ohio 43230  
Phone (614)471-5150 Fax (614)470-9530

**PROJECT DESCRIPTION**

This Project consists of reconstruction of 0.48 miles of 2 to 3 lane roadway along S.R. 104 (Jackson Pike) and Stringtown Road. This project will include: Berm and shoulder, storm sewer, traffic control and traffic signals.

**AREA OF PROJECT SITE & AREAS OF DISTURBANCE**

Project Area: 3.5 Acres

**DESCRIPTION OF SOILS**

See Soils Report

**RUNOFF COEFFICIENTS**

0.4 = Pre-Construction 0.4 = Post-Construction

**RECEIVING STREAM/SURFACE WATER**

Unnamed tributary to the Scioto River

**CRITICAL AREAS:**

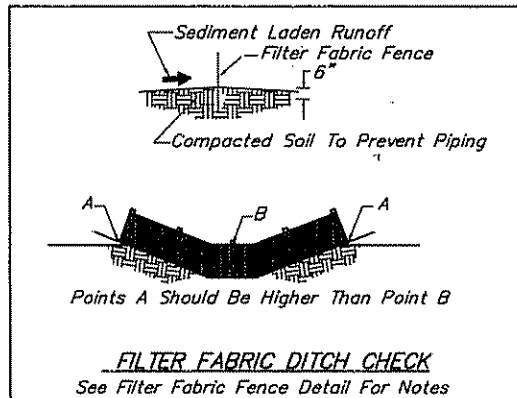
Managing sediment within proposed road ditches

**EROSION & SEDIMENT CONTROL MEASURES**

Sediment shall be managed by the utilization of Sediment Fence, Inlet Protection and Ditch Checks.

**SEQUENCE OF EROSION & SEDIMENT CONTROL IMPLEMENTATION**

1. Contractor shall install filter fabric fence at areas designated on the plan.
2. Contractor shall provide inlet protection on existing storm sewer inlets.
3. Contractor shall install filter fabric ditch checks within the proposed road ditch.
4. Contractor shall stabilize disturbed areas by means of temporary and permanent seeding.
5. Contractor shall remove temporary erosion and sediment control practices upon permanent stabilization of disturbed areas.



**ESTIMATE OF QUANTITIES**

ITEM	QUANTITY	UNIT	DESCRIPTION
877	1237	Lin. Ft.	Filter Fabric Fence
877	220	Lin. Ft.	Ditch Check - Filter Fabric Fence
877	350	Lin. Ft.	Inlet Protection Filter - Fabric Fence
-	-	-	-
-	-	-	-

Quantities Carried To General Summary Sheet 8.

**INSPECTIONS**

The NPDES permit holder shall provide qualified personnel to conduct site inspections ensuring proper functionality of the erosion and sedimentation controls. All erosion and sedimentation controls are to be inspected once every seven calendar days or within 24 hours of a 1/2 inch storm event or greater. Records of the site inspections shall be kept and made available to jurisdictional agencies if requested.

**MAINTENANCE**

It is the Contractor's responsibility to maintain the sedimentation and erosion control features on this project. Any sediment or debris that has reduced the efficiency of a control shall be removed immediately. Should a structure or feature become damaged, the Contractor shall repair or replace it prior to the next rain event.

**CONTRACTOR RESPONSIBILITIES**

Details have been provided on this plan in an effort to help the Contractor provide erosion and sedimentation control. The details shown on the plan shall be considered a minimum. Additional or alternative details may be found in the O.D.N.R. Manual "Rainwater and Land Development." The Contractor shall be solely responsible for providing necessary and adequate measures for proper control of erosion and sediment runoff from the site along with proper maintenance and inspection in compliance with the NPDES General Permit for Storm Discharges Associated with Construction Activity.

The Contractor shall provide a schedule of operations to the County. The schedule should include a sequence of the placement of the sedimentation and erosion control measures that provides for continual protection of the site throughout the earth moving activities.

Prior to Construction Operations in a particular area, all sedimentation and erosion control features shall be in place. Field adjustments with respect to locations and dimensions may be made by the County and the Ohio EPA.

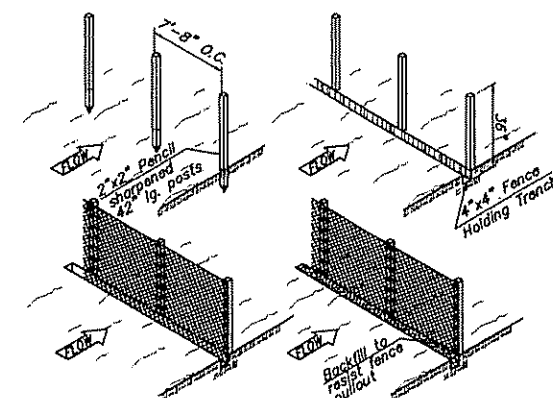
The Contractor shall place inlet protection for the sedimentation control immediately after construction of the catch basins or inlets that are not tributary to a sediment basin or dam.

It may become necessary to remove portions of sedimentation controls during construction to facilitate the grading operations in certain areas. However, the controls shall be replaced upon grading or during any inclement weather.

The Contractor shall be responsible to have the current Storm Water Pollution Prevention Plan immediately available or posted on site.

The Contractor shall be responsible to ensure that off site tracking of sediments by vehicles and equipment is minimized. All such off-site sediment shall be cleaned up daily.

The Contractor shall be responsible to ensure that no solid or liquid waste is discharged into storm water runoff. Untreated sediment-laden runoff shall not flow off of site without being directed through a control practice. Concrete trucks will not be allowed to wash out or discharge surplus concrete into or alongside rivers, streams, or creeks or into natural or man-made channels or swales leading thereto. Concrete wash water and surplus concrete shall be confined to approved areas; after solidifying, these waste materials shall be removed from the site.



Sediment fence fabric shall be ODOT, Type C Geotextile fabric or the equivalent to the following properties:

**MATERIAL PROPERTIES**

MAXIMUM TENSILE STRENGTH	120 lbs
MAXIMUM ELONGATION AT 60 LBS.	50%
MINIMUM PUNCTURE STRENGTH	50 lbs
MINIMUM TEAR STRENGTH	40 lbs
MINIMUM BURST STRENGTH	200 psi
APPARENT OPENING SIZE	0.84 mm
MINIMUM PERMITTIVITY	1 1/2 x 10 <sup>-1</sup> sec
ULTRAVIOLET EXPOSURE STRENGTH RETENTION	70%

**FILTER FABRIC FENCE:**

This sediment barrier utilizes standard strength or extra strength synthetic filter fabrics. It is designed for situations in which only sheet or overland flows are expected. Material Properties are listed in the provided table.

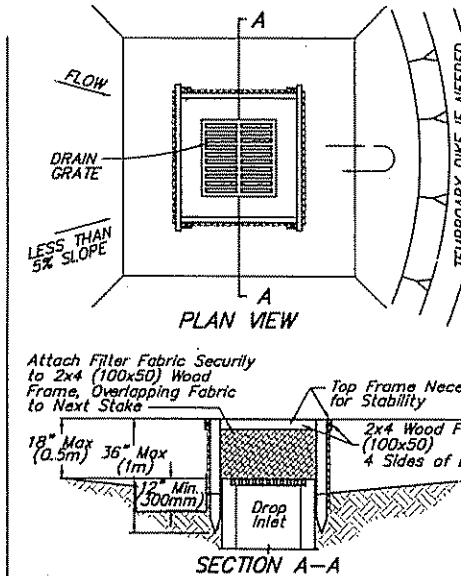
1. The height of a filter fabric fence shall not exceed 36 inches (higher fences may impound volumes of water sufficient to cause failure of the structure).
2. The filter fabric shall be purchased in a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at a support post, with a minimum of a 6 inch overlap, and securely sealed.
3. Posts shall be spaced a maximum of 10 feet apart at the barrier location and driven securely into the ground (minimum of 12-inches). Wood posts will be a minimum of 32" long. When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
4. A trench shall be excavated approximately 4-inches wide and 6-inches deep along the line of posts and upslope from the barrier.
5. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least 1 inch long, tie wires or hog rings. The wire shall extend into the trench a minimum of 2-inches and shall not extend more than 36-inches above the original ground surface.
6. The standard strength filter fabric shall be stapled or wired to the fence, and 8-inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36-inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
7. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of Item No. 6 applying.
8. The trench shall be backfilled and soil compacted over the filter fabric.
9. Silt fences shall be removed when they have served their useful purpose, but not before the upslope area has been permanently stabilized.
10. To prevent water ponded by the silt fence from flowing around the ends, each end shall be constructed upslope so that the ends are at a higher elevation.

**MAINTENANCE:**

Silt fences and filter barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. Any required repairs shall be made immediately. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier is still necessary, the fabric shall be replaced promptly. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one half the height of the barrier. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

**FILTER FABRIC FENCE BARRIER DETAIL**

SCALE: NONE



**NOTES:**

1. Drop Inlet Sediment Barriers are to be used for Small, Nearly Level Drainage Areas. (Less Than 5%)
2. Use 2"x4" (100x50mm) Wood or Equivalent Metal Stakes, 3' (1m) Minimum Length
3. Install 2"x4" (100x50mm) Wood Top Frame to Insure Stability.
4. The Top of the Frame (Ponding Height) must be well Below the Ground Elevation Downslope to Prevent Runoff from by passing the Inlet. A Temporary Dike may be Necessary on the Downslope Side of the Structure. May be used as alternate inlet protection.

**FILTER FABRIC INLET PROTECTION**

SCALE: NONE

**TEMPORARY AND PERMANENT SEEDING**

The limits of seeding and mulching are as shown within the plan. Seeding has been assumed to be within the existing or proposed right-of-way limits, whichever is greater. All areas not designated to be seeded shall remain under natural ground cover. Those areas disturbed outside the seeding limits shall be seeded and mulched at the Contractor's expense.

**TEMPORARY SEEDING.** Any area which will be left dormant (undisturbed) for more than 21 days shall be seeded within 7 days of terminated work. Disturbed areas within 50 feet of a stream, first order or larger, shall be stabilized within 2 days of inactivity. Temporary seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary.

**PERMANENT SEEDING.** Any area that is at final grade shall be seeded within 7 days of terminated work. Permanent seeding consists of seedbed preparation and application of seed, fertilizer, and water. Soil test is recommended to determine proper application rate of fertilizer and if lime is necessary. Ideal conditions for permanent seeding is March 1-May 31 and August 1-September 30.

Fertilizer 12-12-12	12 lb/1000 sq. ft.
Straw Mulch	2 tons/acre
Water	300 G/1000 sq. ft.

TEMPORARY SEEDING			
SEEDING DATES	SPECIES	lb./1000 sq. ft.	Per acre
March 1 to August 15	Oats	3	4 bushel
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Perennial Ryegrass	1	40 lb
August 16 to November 1	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Wheat	3	2 bushel
	Tall Fescue	1	40 lb
Nov. 1 to Spring Seeding	Annual Ryegrass	1	40 lb
	Tall Fescue	1	40 lb
	Annual Ryegrass	1	40 lb
	Annual Ryegrass	1	40 lb
NOTE: Other approved seed species may be substituted.			
PERMANENT SEEDING			
SEED MIX	SEEDING RATE		NOTES
	lb/acre	lb/1000 sq.ft.	
GENERAL USE			
Creeping Red Fescue	20-40	1/2-1	
Domestic Ryegrass	10-20	1/4-1/2	
Kentucky Bluegrass	10-20	1/4-1/2	
Tall Fescue	40	1	
Dwarf Fescue	40	1	
STEEP BANKS or CUT SLOPES			
Tall Fescue	40	1	
Crown Vetch	10	1/4	Do not seed later than August.
Tall Fescue	20	1/4	
Flat Pea	20	1/2	Do not seed later than August.
Tall Fescue	20	1/2	
ROAD DITCHES and SWALES			
Tall Fescue	40	1	
Dwarf Fescue	90	2/4	
Kentucky Bluegrass	5		
LAWNS			
Kentucky Bluegrass	60	1 1/2	
Perennial Ryegrass	60	1 1/2	
Kentucky Bluegrass	60	1 1/2	
Creeping Red Fescue	60	1 1/2	For shaded areas
NOTE: Other approved seed species may be substituted.			

PROJECT: 20031112 (SWPPP) - J. WREDS. 120 X75 X20 - PLOTTED BY: CHAMPWREDS - April 23, 2004 - 2:55 PM



**CONTRACT SPECIFICATIONS**

All contract specifications accompanying these plans are to be considered a part thereof.

**PROPOSAL**

No extra compensation will be paid to the Contractor by reason of compliance with any of the requirements indicated in the Specifications, but payments shall be deemed to be included among the several items, as bid upon, unless otherwise specifically provided.

**MISCELLANEOUS WORK ITEMS**

All items of work called for on the plans for which no specific method of payment is provided shall be performed by the Contractor and the cost of same shall be included in the price for the various related items.

**CONTINGENCY QUANTITIES**

The Contractor shall not order materials or perform work for items designated by plan note to be used "As Directed By The Engineer" unless authorized by the Engineer. The actual work locations and quantities used for such items shall be incorporated into the final change order governing completion of this project

**PERMITS**

The Contractor shall obtain all necessary ODOT permits prior to construction. The Contractor shall notify Franklin County (462-4821) at least 2 weeks prior to construction

**SAFETY REQUIREMENTS**

The Contractor and sub-contractor shall be solely responsible for all federal, state and local safety requirements, together with exercising precautions at all times for the protection of persons (including employees) and property. It is also the sole responsibility of the Contractor and Subcontractor to initiate, maintain and supervise all safety requirements, precautions and programs in connection with the work

**SITE VISIT**

The Contractor is required to visit the site and fully inform himself concerning all conditions affecting the scope of the work. Failure to visit the site shall not relieve him from any responsibility in the performance of this Contract.

**RIGHTS-OF-WAY**

In addition to direct requirements of the contract specifications, the Contractor shall observe and conform to the specific requirements of all rights-of-way including easements, court entries, rights-of-entry or action filed in court in accordance with the code of applicable governing agency. The cost of the operations necessary to fulfill such requirements shall be included in the price bid of the various items of the contract unless specific provision is made in the Contract Specifications.

**WORK LIMITS**

The work limits shown on these plans are for physical construction only. The installation and operation of all temporary traffic control and temporary traffic control devices required by these plans shall be provided by the Contractor whether inside or outside these work limits

**ELEVATION DATUM**

All elevations are based on the NAVD 88 Datum.

**EXISTING UTILITIES**

The identity and location of the existing underground utility facilities known to be located in the construction area have been shown on the plans as accurately as provided by the Owners of the underground utility. Franklin County, and/or the Engineer assumes no responsibility to the accuracy or the depths of the underground facilities whether or not shown on the plans. Investigation, location, support, protection and restoration of all existing utilities and appurtenances shall be the responsibility of the Contractor. Additionally, the Contractor is responsible to coordinate this construction activity along with the relocation of any utilities as required by the plan with the Owner of the affected utility. Private utility manholes within the limits of the work shall be readjusted to grade by the respective utility. Gas line/service, service boxes and appurtenances within the work limits and in conflict with the project construction shall be relocated by the owner of the utility (Columbia Gas). Utility poles within the influence of the water line and storm line trenches or earthwork operations shall be reinforced by utility company prior to these construction activities. Notification of the utility company prior to construction shall be the responsibility of the Contractor. The Contractor shall expose any utility line or structure (public or private) sufficiently in advance of laying pipe or duct in order that the Engineer may determine the exact elevation and make any necessary adjustments. Cost of the above, if any, shall be included in the price bid for the various items in the contract. The Contractor shall cause notice to be given to the Ohio Utilities Protection Service (telephone 800-362-2764, toll free) and to the owners of the underground utilities who are not members of a registered underground protection service in accordance with Section 153.64 of the Revised Code. The above mentioned notice shall be given at least 48 hours prior to start of construction

The following utilities and Owners are located within the work limits of this project

UTILITY	OWNER	TELEPHONE
Culverts & Storm Sewer.	Franklin County Engineers 970 Dublin Road Columbus, Ohio 43215	(614) 462-3063
Gas	Columbia Gas of Ohio 920 Goodale Blvd. Columbus, Ohio 43212	(614) 460-2338
Gas	Marathon Ashland 840 Heath Rd. Heath, Ohio 43056	(740) 504-4703
Cable	Warner Cable Communications, Inc. 1266 Dublin Road Columbus, Ohio 43215	(614) 481-5263
Cable	WIDEOPENWEST 2660 Winchester Pike Columbus, Ohio 43232	(614) 236-3922
Electric	American Electric Power- Distribution 850 Tech Center Drive Gahanna, Ohio 43230	(614) 883-6829
Electric	American Electric Power- Transmission 825 Tech Center Drive Gahanna, Ohio 43230	(614) 552-1193
Telephone	SBC 150 E. Gay Street, Rm 6C Columbus, Ohio 43215	(614) 223-6984

**COORDINATION WITH COLUMBUS PAVING THE WAY PROGRAM (PTWP)**

The Contractor shall notify the Project Engineer in writing of all traffic restrictions and upcoming maintenance of traffic changes on a weekly basis. When detours are planned this notification shall be at the preconstruction meeting or 30 days in advance of the construction start date. Lane and ramp closures for two or more weeks shall be reported two weeks in advance of closure. Lane and ramp closures of less than two weeks duration and more than two days shall be reported at least 3 working days in advance. For short-term lane and ramp closures (two days or less) notification shall be made at least one working day in advance. Information shall include but not be limited to all construction activities that impact traffic at present and in the next 30 days. The report shall be of a format approved by the Project Engineer or one supplied by the PTWP. The Contractor shall designate an individual who will be responsible to prepare this report at the preconstruction meeting.

Any unforeseen impact to traffic shall be reported to the project Engineer as soon as possible.

The Project Engineer shall provide this information to the PTWP program. All construction activities that interfere with traffic shall be reported to the PTWP. This information shall be provided to the program coordinator at 614-645-3970 (6016), or by FAX 614-645-6938.

**TRAFFIC MAINTENANCE**

All traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the Ohio Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations (current edition), copies of which are available from the Ohio Department of Transportation, Bureau of Traffic, 1980 West Broad Street, Columbus, Ohio 43223.

In addition to the requirements for maintaining traffic as indicated in the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways, (current edition), a Traffic Maintenance and Control Plan has been provided for this improvement and is included as a part of this plan. Reference Sheet Nos. 26-28 for additional details and notes

All Construction Signs, Barricades, Vertical Panels and Drums shall conform to OMUTCD and the latest revision of ODOT Construction and Material Specification

All Construction Signage shall be installed and covered before construction shall begin. After Construction Sign Installation, the Contractor shall notify the Franklin County Traffic Engineer at 462-5318 three (3) working days before work begins and request an inspection of all signage

Faces of Construction Signs and Reflective Sheeting on Barricades shall be Type H (VIP). All Orange Construction Signs shall be Fluorescent Orange. All Sheeting will be tested for Reflectivity per ODOT 730.192. Vertical Panels and Drum Bands shall be Reflectorized with Type G (High Intensity) Sheeting complying with the requirements of 730.19.

All Signs and Barricades, Vertical Panels, and Drums will be like new and in good condition in conformance with "Quality Standards for Work Zone Traffic Control Devices" published by ATSSA.

Maintenance of all Contractor supplied Signs, Barricades, Vertical Panels and Drums is the Contractor's responsibility. If the Contractor fails to correct deficiencies within four (4) hours of notification, Franklin County shall correct or hire someone to correct the deficiencies. The Contractor shall then be backcharged per ODOT Specification 614.04. In the case that backcharging the Contractor is not applicable, the County will rescind and withhold all permits issued to the Contractor to work within county right-of-way until the issue is settled.

These provisions shall not in any way relieve the Contractor of any of his legal responsibilities or liabilities for the safety of the public

All Barricades at Closures shall have Yellow Type C steady burn lights. All Barrels shall have Yellow Type C steady burn lights. All Signs nine (9) sq. ft (36"x36") and over shall have Yellow Type A low intensity flashing warning lights and three (3) flags.

Drums shall be placed as follows: 25' C/C on tangents, 15' C/C on tapers, and 8' C/C in radii.

Full road closures shall conform to MT-101.60 with Type C warning lights in lieu of Type B lights. If full closure is not practical, enough Type III Barricades shall be provided to close all lanes as directed by the Engineer.

Payment for all maintenance operations described above shall be included in the Lump Sum Contract Price for Item 614, Maintaining Traffic, As Per Plan

**UNSUITABLE MATERIAL**

Quantities for Item 203-Excavation of Unsuitable Material, Item 203-embankment Using No. 2 Stone, Item 203-Embankment Using Item 304, and Item Special-Geotextile Fabric have been included for removal of any unsuitable soil encountered on this project. These quantities, established for the removal and replacement of unsuitable soil, are contingency quantities, shall be used only as directed by the Engineer, and shall be ordered only with permission of the Engineer.

Item	Description	Quantity	Unit
203	Excavation Of Unsuitable Material	<del>507</del> 607	C.Y.
203	Embankment Using No. 2 Stone (21")	<del>531</del> 593	C.Y.
203	Embankment Using Item 304 (4")	<del>101</del> 102	C.Y.
Special	Geotextile Fabric	<del>913</del> 913	S.Y.

The Geotextile fabric shall be Terratex HD, Mirafi 600X, Exxon GTF300 or approved equal having a burst strength of at least 600 PSI.

**SUBSURFACE INVESTIGATION**

A soils report prepared by GCI for this project (Dated October 2, 2003) is referenced as part of this plan. All recommendations in this report unless otherwise specified herein shall be followed. Copies of this report may be obtained from the office of Evans, Mechwart, Hambleton & Tilton, Inc. 170 Mill Street, Gahanna, Ohio. (Phone: 614-471-5150)

**ROCK**

No extra compensation shall be paid for any excavation required in rock or shale. The bidder shall examine the soils report to determine if he feels that any rock excavation will be required and adjust his bids accordingly.

**DEWATERING**

The Contractor is responsible to provide all dewatering operations as required to accomplish the proposed cut and fill operations, for the construction of the waterline and storm sewers. Cost shall be included in the price bid for the various roadway items.

**CROSS SECTIONS**

The rounded corners shown on the typical sections apply to all cross sections, even though otherwise shown on these plans.

**ITEM 201: CLEARING AND GRUBBING**

All trees, brush and stumps specifically marked for removal within the construction limits of this project shall be removed under the lump sum price bid for Item 201, Clearing and Grubbing.

Franklin County reserves the right to order the removal of additional trees or stumps outside of the limits of the right-of-way and/or easement lines but within the work limits. Payment for the removal of these additional trees or stumps shall be included in the lump sum price bid for Item 201, Clearing and Grubbing.

**FRANKLIN COUNTY ENGINEER'S MONUMENTATION**

The contractor shall contact the Franklin County Engineer's Office, Survey Department at (614-462-3026) two working days before disturbing any Franklin County Geodetic Monuments (vertical and/or horizontal) for reference and replacement.

**PROOF ROLLING**

An estimated quantity for this item has been provided in the General Summary for use As Directed By The Engineer.

**EROSION CONTROL**

Item 601 is provided in the plans for Erosion Control. Rock of a stable nature shall not be removed in order to place this item. The Engineer shall check and non-perform quantities or adjust locations and quantities of this item where indicated by field conditions during construction

This contract is subject to National Pollutant Discharge Elimination System (NPDES) provisions, federal, state, and local laws pertaining to pollution control. The contractor will be required to co-sign the ODEPA permit and Notice of Intent (NOI) as per NPDES requirements. It is the contractor's responsibility to notify his subcontractors of the ODEPA requirements, have them sign affidavits that they understand those requirements, and furnish copies to FCEO. If contractors will be hauling to a dumpsite or from a borrow area that is larger than 1 Acre, then they shall get their own permit and NOI for those areas and furnish copies to FCEO. The contractor shall install a rain gauge close to the project trailer. The erosion and sediment control features (Temporary and/or Permanent) shall be installed in an acceptable manner so that the device will prevent erosion of soils and deposits of sediment into the receiving watersheds. Stripped areas shall have soil stabilization applied within 7 days if they are to remain dormant for more than 21 days. Permanent or temporary soil stabilization shall be applied to denuded areas within 7 days after final grade is reached on any portion of the site, and shall also be applied within 7 days to denuded areas which may not be at final grade, but will remain dormant (undisturbed) for longer than 21 days. When deficiencies are found in the project erosion and sediment control system, FCEO will notify the contractor of such noncompliance. The contractor shall correct the deficiencies using the contract items set-up for this purpose. If the contractor fails to remedy unsatisfactory stabilization within 24 hours after receipt of such notice, FCEO may invoke the provision of ODOT CMS Section 105.15, correct the stabilization, and deduct the entire cost of the correction from monies due or to become due the contractor on the contract. Failure of the contractor to take corrective measures may result in enforcement actions and penalties as provided by NPDES, federal, state, and local law. Any fines for noncompliance will be passed onto the contractor. Payment for all work associated with EROSION AND SEDIMENT CONTROL shall be included in the unit bid prices for all temporary and permanent erosion control bid items

**CROSSING AND CONNECTING TO EXISTING PIPE**

Where plans provide for a proposed conduit to be connected to, or cross over or under an existing sewer or underground utility, the Contractor shall locate the existing pipes or utilities both as to line and grade before starting to lay the proposed conduit

If it is determined that the elevation of the existing conduit, or existing appurtenance to be connected, differs from the plan elevation or results in a change in the plan conduit slope, the Engineer shall be notified before starting construction of any portion of the proposed conduit which would be affected by the variance in the existing elevations

If it is determined that the proposed conduit will intersect an existing sewer or underground utility if constructed as shown on the plan, the Engineer shall be notified before starting construction of any portion of the proposed conduit which would be affected by the interference with an existing facility.

Payment for all the operations described above shall be included in the contract price for the pertinent 603 conduit item t

**REVIEW OF DRAINAGE FACILITIES**

Before any work is started on the project, and again before final acceptance by Franklin County, representatives of Franklin County and the Contractor, along with local representatives, shall make an inspection of the existing sewers within the work limits which are to remain in service and which may be affected by the work. The condition of existing conduits and their appurtenances shall be determined from field observations. Records of the inspections shall be kept in writing by Franklin County.

All existing sewers inspected initially by the above-mentioned parties shall be maintained and left in a condition reasonably comparable to that determined by the original inspection. Any change in the condition resulting from the Contractor's operations shall be corrected by the Contractor to the satisfaction of the Engineer.

All new conduits, inlets, catch basins and manholes constructed as part of the project shall be free of all foreign matter and in a clean condition before the project will be accepted by Franklin County.

Payment for all the operations described above shall be included in the contract price for the pertinent 603 conduit items

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GENERAL NOTES

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**FARM DRAINS**

All Farm Drains, which are encountered during construction, shall be provided with unobstructed outlets. Existing collectors which are located below the roadway ditch elevations, and which cross the roadway, shall be replaced within the construction limits by Item 603 conduit, Type B, One commercial size larger than the existing conduit.

Existing collectors and isolated farm drains, which are encountered above the elevation of roadway ditches, shall be outletted into the roadway ditch by 603 Type F conduit. The optimum outlet elevation shall be one foot above the flowline elevation of the ditch. Lateral field tiles which cross the roadway shall be intercepted by 603, Type C conduit, and carried in a longitudinal direction to an adequate outlet or roadway crossing.

The location, Type, Size and Grade of replacements shall be determined by the engineer and payment shall be made on final measurements.

Erosion control pads and animal guards shall be provided at the outlet end of all farm drains as per standard construction drawing DM-1.1, except when they outlet into a drainage structure. Payment for the erosion control pads and animal guards and any necessary bends or branches shall be included for payment in the pertinent conduit item.

The following estimated quantities have been included in the general summary for the work noted above:

603 8" Conduit, Type B	50 Lin. Ft
603 6" Conduit, Type C	50 Lin. Ft
603 4" Conduit, Type F	50 Lin. Ft
604 Inspection Well	2 Each

**RESTORATION AND CLEAN UP**

It is the intent of the City and County to keep inconvenience to the property owners to an absolute minimum. All work prescribed and described in these Specifications is situated in improved areas. All work is to continue on a uniform basis and on a schedule, particularly the restoration and clean up of disturbed areas after construction.

The tracking of mud, dirt or debris, or spillage of same upon city or county streets and residential drives or sidewalks, is prohibited and any such occurrence shall be cleaned up immediately by the Contractor. Failure to remove said mud, dirt or debris, or spillages may result in the City of Grove City or Franklin County, providing that service and the cost of that service withheld from monies which may become due to the Contractor.

All fences, signs, concrete steps, drainage structures, or other physical features removed, disturbed or damaged during work under the Contract shall be restored to their original condition by the Contractor unless otherwise specified. Payment for the same shall be included in the price bid for the various roadway items.

**SANITARY FACILITIES**

The Contractor shall furnish and maintain sanitary convenience facilities for the workmen and inspectors for the duration of the work. Cost shall be included in the unit price bid for the various roadway items.

**INSPECTION OF CONCRETE AND CLAY PIPE AND PRECAST CONCRETE STRUCTURES**

All concrete pipe, storm and sanitary sewer structures shall be stamped or have such identification noting that the said pipe, storm and sanitary structures have been inspected by the City of Columbus and meet their specifications. Pipe and structures without proper identification will not be permitted for installation.

**STORAGE OF EQUIPMENT AND MATERIALS**

No materials, including pipe, shall be stored within the right-of-way or within twenty (20) feet of any intersecting street or driveway. During non-working hours, storage of equipment shall comply with these same requirements. Compliance with these requirements shall not in any way relieve the Contractor of his legal responsibilities or liabilities for the safety of the public. The Contractor shall indicate his intent with regard to storage of material at the preconstruction meeting.

**CONDUIT END TREATMENT**

Immediately after placement of any conduits, the Contractor shall construct the end treatments required by the plans at both the outlet and inlet ends. This shall include headwalls, concrete riprap, rock channel protection, sodding, etc.

**MAINTAINING MAIL SERVICE**

The Contractor shall be responsible for maintaining mail service in the construction area. Prior to disturbing any mail boxes the Contractor shall contact the postal authorities and shall temporarily relocate mail boxes in accordance with the requirements therefore. The Contractor shall restore mail boxes to their original condition and location unless otherwise specified. Cost of same shall be included in the unit price bid for Item 203.

**REPLACEMENT OF DRAIN TILE AND STORM SEWER**

All drain tile and storm sewers damaged, disturbed, or removed as a result of the Contractor's operations shall be replaced with the same quality pipe or better, maintaining the same gradient as existing. The drain tile and/or storm sewer shall be connected to the curb subdrain, storm sewer system or outletted into the roadway ditch as applicable. Replaced drain tile/storm sewer shall be laid on compacted bedding equal in density to surrounding stratum. Replacement shall be done at the time of the backfill operation. Cost of this work to be included in the unit price bid for the conduit items.

**MAINTAIN DRAINAGE**

The flow in all sewers, drains, field tiles and watercourses encountered shall be maintained by the Contractor at his own expense, and whenever such watercourses and drains are disturbed or destroyed during the prosecution of the work, they shall be restored by the Contractor at his own cost and expense to a condition satisfactory to the Engineer.

**ITEM 659 SEEDING AND MULCHING**

The work under this item shall be in accordance with ODOT CMSC Item 659, except as modified as follows:

**PERMANENT SEEDING DATES**

3/15-6/15, 8/15-10/15

Prior to seeding, the Contractor shall provide supplier certification that the seed mix meets the requirements of this specification.

All other areas disturbed or destroyed by the Contractor shall be restored and seeded and mulched by the Contractor at his own expense. Final site restoration, in accordance with the plans and specifications, shall be completed as the project progresses. Use of straw will not be permitted.

**SEEDING AND MULCHING**

The limits of Item 659, Seeding and Mulching, shall be from the edge of shoulder or back of curb to the existing or proposed right-of-way or work limits (i.e. limits of cut and fill work and a 20 foot width at sewers outside the right-of-way). Any additional areas disturbed outside of these limits shall be seeded and mulched as per Item 659 at the Contractor's expense. Plan quantities are based upon these limits. The following Estimated Quantity has been carried to the General Summary:

ITEM 659, Seeding and Mulching 8,292 Sq. Yds

**WATERING PERMANENT SEEDING AREAS**

The following Estimated Quantity has been carried to the General Summary and is to be used as directed by the Engineer to promote growth and care for the permanent seeded areas:

ITEM 659, Water 314 MGal.

**ITEM 653: TOPSOIL FURNISHED AND PLACED**

At all locations, the Contractor shall remove three (3) inches of earth and replace it with Topsoil. Any areas outside the limits shown on the cross sections that are disturbed or destroyed by the Contractor shall be repaired with topsoil by the Contractor at no additional cost to Franklin County. Quantities for excavation, not including embankment construction and embankment shown in the plans have been estimated to the final grade lines and the Contractor should adjust his estimated cost to accommodate the use of topsoil.

ITEM 653, Topsoil, Furnished and Placed 691 Cu. Yd.

Payment for Item 653 Topsoil Furnished and Placed, shall be the unit price bid per cubic yard and shall include any necessary excavation to place the topsoil, and any incidentals necessary to complete the work. This material shall be pulverized topsoil as manufactured at a processing plant. Existing topsoil or topsoil from another project will not be acceptable.

**FIELD OFFICE, TYPE B, AS PER PLAN**

The Contractor shall provide a Type B Field Office having a minimum of 300 sq. ft. of floor space. A Fax Machine shall be included in the Field Office. Kerosene Heaters shall not be used as a heat source. Contractor's Operations shall not be permitted in the County Engineer's Field Office. Payment for all of the above shall be included in the Lump Sum Price Bid for Item 619 Field Office, Type B, As Per Plan.

**ITEM SPECIAL: MAINTAINING AND REPLACEMENT OF MAILBOXES**

In addition to the requirements of section 107.12 of the specifications, the Contractor shall replace the existing mailboxes with material supplied by the Franklin County Engineer. They shall be replaced with a plastic box mounted on a 2 inch O.D. x 4 foot long, thin wall galvanized steel post. The base post support system is a flush to the ground socket as manufactured by Foresight Industries, Inc.

The Contractor shall erect the mailboxes in accordance with Postal Regulations. The Contractor shall obtain the necessary materials at 970 Dublin Road, at which time details and installation requirements shall be furnished. Payment shall be included in the Price Bid for Item 203.

**TEMPORARY SOIL EROSION AND SEDIMENT CONTROL**

The following estimated quantities are to be placed by the Contractor with the Engineer's concurrence for temporary erosion and sediment control measures:

877, Temporary Seeding and Mulching	1659 Sq. Yd.
877, Temporary Sediment Basins and Sediment Dams	436 Lin. Ft.
877, Temporary Inlet Protection Filter Fabric Fence	350 Lin. Ft.
877, Temporary Filter Fabric Fence	729 Lin. Ft.
870, Commercial Fertilizer	0.07 Ton
870, Repair Seeding and Mulching	415 Sq. Yd.
870, Water	4.5 M. Gal.

**TREATED SEPTIC CONNECTIONS**

Treated septic flow may be discharged into the highway drainage system provided the owner has acquired an official permit from the Franklin County Health Department.

In each case where a Permit has been issued for making a Treated Septic connection into a Highway Drainage Conduit, an Inspection Well shall be provided in accordance with Standard Construction Drawing DM-3.1.

The following estimated quantities have been included in the General Summary for use as directed by the Engineer in making the above connections:

603, 6" Conduit, Type C 50 L.F.

**UNTREATED SEPTIC CONNECTIONS**

This plan makes no provision for connecting, nor shall the Engineer or contractor connect, and untreated septic drainage into the highway drainage system. Any pipe carrying possible untreated septic flow shall be left exposed. Call Franklin County Health Department at 614-462-3909 for direction on tying the pipe into the highway drainage system or plugging the pipe at R/W line w/ Class C concrete. Payment for plugging shall be included in contract price for the pertinent 202 or 203 item.

**RESIDENTIAL AND COMMERCIAL DRAINAGE CONNECTIONS**

Existing roof drains, footer drains, or yard drains, disturbed by the work, shall be provided with unobstructed outlets by connecting a conduit through the curb or into a drainage structure. The Location, Type, Size and Grade of the new conduit required to replace or extend the existing drain will be determined by the Engineer.

The following conduit types may be used: 707.33, 707.41 Non-Perforated, 707.42, 707.43, 707.45, 707.46, 707.47, 707.51, 707.52 SDR35.

The following Estimated Quantities have been included in the General Summary for use as directed by the Engineer for the work noted above:

603, 4" Conduit, Type C, For Drainage Connection 200 L.F.

603, 6" Conduit, Type C, For Drainage Connection 200 L.F.

**EXPOSE NOTE**

Where plans provide for a proposed conduit, storm sewer, waterline, or other construction to cross over or under an existing sewer or underground utility, the contractor shall locate the existing pipes or utilities both as to line and grade before starting to lay the proposed conduit, storm sewer, waterline, or other construction. If it is determined that the existing conduit or existing appurtenance to be connected differs from the plan elevation or results in a change in the planned work, the engineer shall be notified before starting construction of any portion of the proposed work which will be affected by the variance in the existing elevations. Payment for all the operations described above shall be included in the contract price for the pertinent items.

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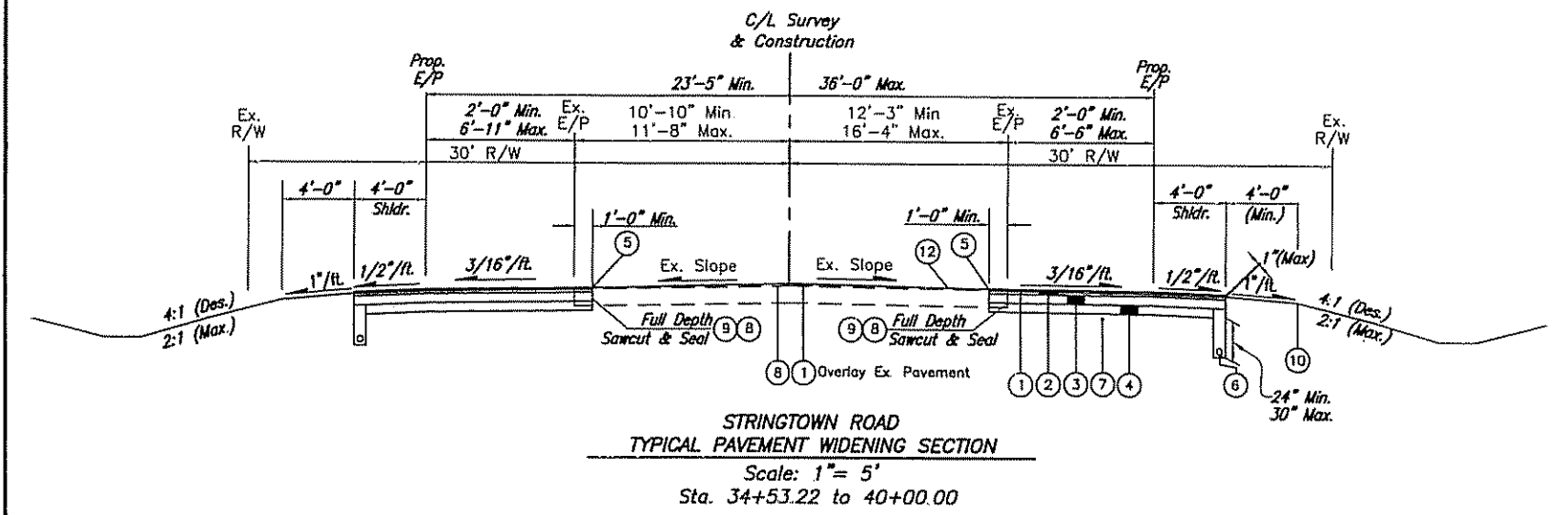
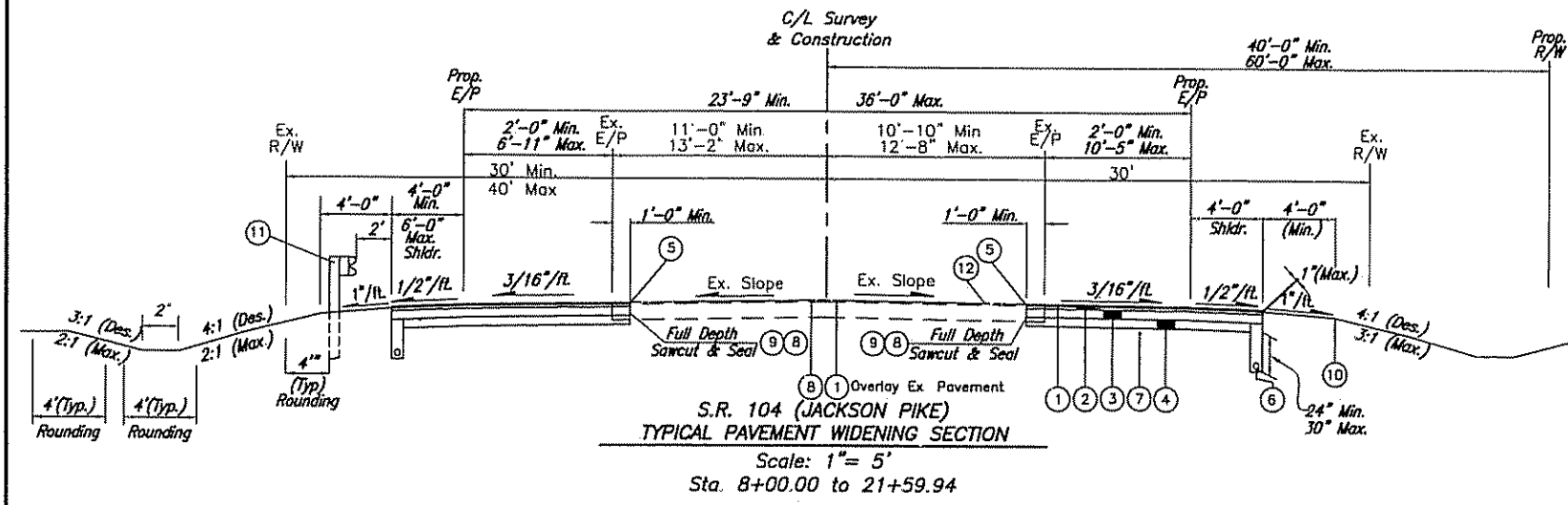
GENERAL NOTES

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**LEGEND**

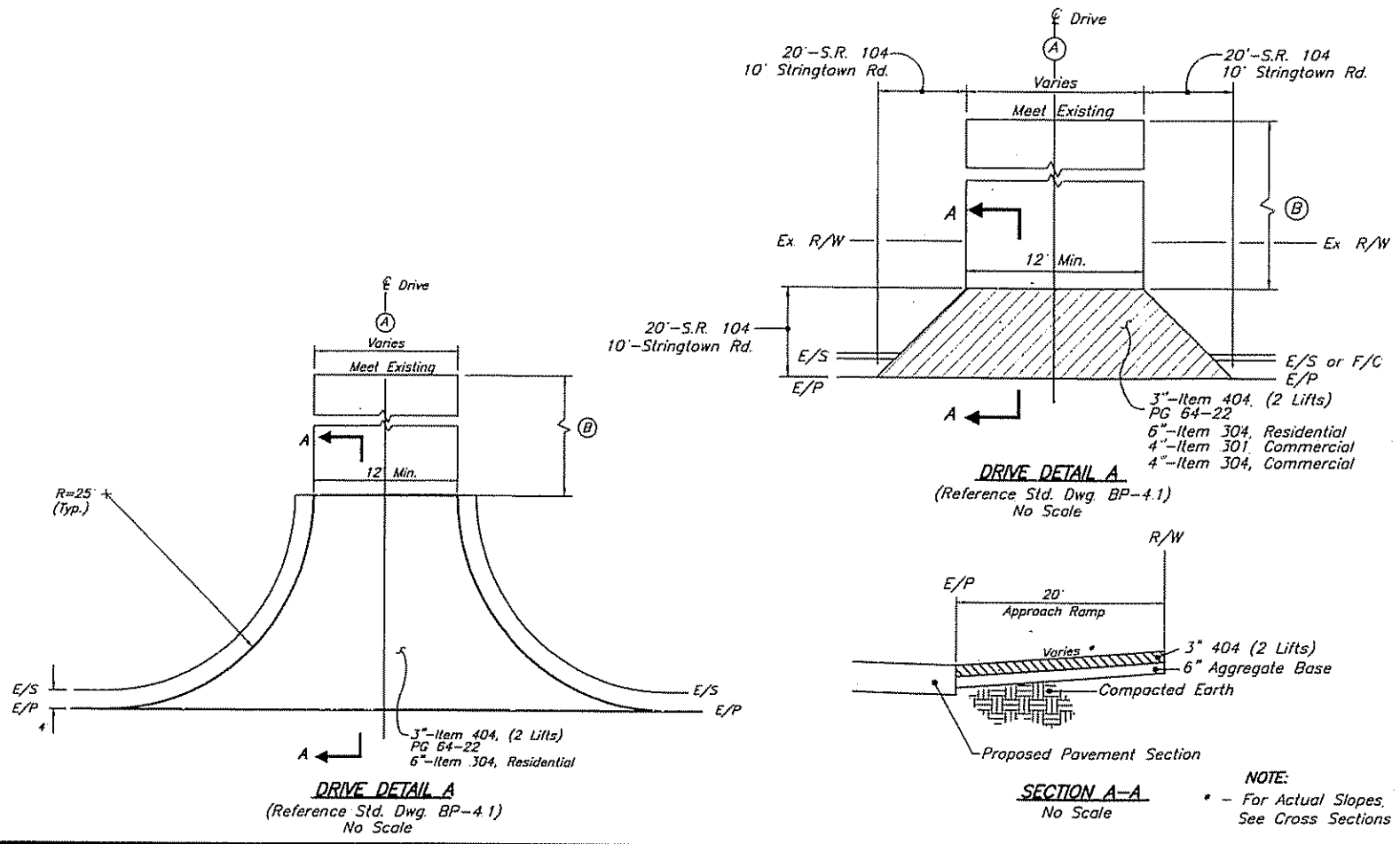
- ① Item Special - 1 1/4" Asphalt Concrete, PG64-22 (Item 404, 1997 ODOT CMS)
- ② Item Special - 1 3/4" Asphalt Concrete, PG64-22 (Item 402, 1997 ODOT CMS)
- ③ Item 301 - 11" Bituminous Aggregate Base, PG64-22
- ④ Item 304 - 6" Aggregate Base
- ⑤ Item Special - Crack Sealing, Hot Applied (Item 413, 2002 C.O.C. CMS)
- ⑥ Item 605 - 4" Shallow Pipe Underdrain
- ⑦ Item 204 - Subgrade Compaction
- ⑧ Item 407 - Tack Coat, Bituminous @ 0.15gal/s.y.
- ⑨ Item 252 - Full Depth Sawcut, Bituminous
- ⑩ Item 659 - Seeding & Mulching
- ⑪ Item 606 - Guardrail, Type 5
- ⑫ Item 403 - Asphalt Concrete, PG64-22 (Item 403, 1997 ODOT CMS)



NOTE: FOR DRIVEWAY LOCATIONS SEE PLAN & PROFILE SHEETS.

Sta	SIDE	DRIVEWAY		Aggregate				Asphalt		Removal
		(A)	(B)	ITEM 304 6"	ITEM 304 8"	ITEM 304 4"	ITEM 301 4"	ITEM 404 3" (2 Lifts)	ITEM 408 @ 0.4 Gal/SY	ITEM 202 Concrete Pavement
				C.Y.	C.Y.	C.Y.	C.Y.	C.Y.	Gal.	S.Y.
<b>S.R. 104</b>										
9+55	RT.	12'		11.9				5.9	28.44	
10+48	LT.	13'		11.3				5.7	27.14	
11+04	LT.	18'		13.4				6.7	32.20	35.94
13+61	RT.	16'		13.3				6.7	32.00	
15+94	RT.	12'	24.0'	15.8				7.9	37.96	
17+62	RT.	18'		13.7				6.8	32.81	
18+77	RT.	12'		14.9				7.5	35.87	
19+34	LT.	31.5'				11.7	11.7	8.8	42.00	
20+23	RT.	12'	18.8'	11.9	2.3			5.9	28.44	
<b>Stringtown Rd.</b>										
35+01	LT.	15.5'		4.7				2.4	11.31	
35+59	RT.	26'		7.3				3.7	17.60	
35+98	LT.	20'		5.6				2.8	13.43	
37+90	LT.	36.5'				5.8	5.8	4.4	20.73	
<b>TOTALS</b>				<b>123.8</b>	<b>2.3</b>	<b>17.5</b>	<b>17.5</b>	<b>75.2</b>	<b>359.93</b>	<b>35.94</b>
<b>TOTALS CARRIED TO GENERAL SUMMARY</b>				<b>124.0</b>	<b>3</b>	<b>18</b>	<b>18</b>	<b>76</b>	<b>360.00</b>	<b>36.00</b>

# - Drives having an existing hard surface or an existing aggregate surface shall be replaced with pavement of a similar type, insofar as practicable, using one of the drive designs shown in the driveway schedule above.  
NOTE: For Drive Profiles See X-Sections Sheet, No. 14-19 (S.R.104) & 22-23 (Stringtown).



PROJECT 2001112 (ONE) 11/20/01 DMC - 1 REFS. X2G XZT XZN - PLOTTED BY CHAMBERS - APR 24, 2004 - 6:28 AM

ITEM	SHEET NUMBERS																		ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.																										
	4	5	6	Supplemental Calcs.	7	10	11	12	13	20	21	25	28	29																																				
201		LUMP																	201	11000	LUMP	SUM	Clearing & Grubbing																											
202					36														202	23000	36	SQ.YD.	Pavement Removed																											
202								21											202	32000	21	LIN.FT.	Curb Removed																											
202							69	40											202	35100	109	LIN.FT.	Pipe Removed, 24" and Under																											
202							228												202	38000	228	LIN.FT.	Guardrail, Removed																											
202									1										202	58100	1	EACH	Catch Basin, Removed																											
202										1									202	58500	1	EACH	Catch Basin Abandoned																											
202						200	71												202	75000	271	LIN.FT.	Fence Removed																											
203						171	543	307	264	125	374								203	12000	1784	CU.YD.	Excavation not including Embankment Construction																											
203		809																	203	13100	609	CU.YD.	Excavation of Unsuitable Material																											
203		533																	203	22222	533	CU.YD.	Embankment Using No. 2 Stone																											
203		102																	203	22304	102	CU.YD.	Embankment Using Item 304																											
203						302	251	425	160	74	153								203	35200	1365	CU.YD.	Embankment																											
204					3651														204	10000	3651	SQ.YD.	Subgrade Compaction																											
204					2														204	45000	2	HOUR.	Proof Rolling																											
410					200														410	10000	200	CU.YD.	Traffic Compacted Surface, Type A																											
606						212.5													606	13000	212.5	LIN. FT.	Guardrail, Type 5																											
606						1													606	26000	1	EACH	Anchor Assembly, Type B																											
606						1													606	26500	1	EACH	Anchor Assembly, Type T																											
Special		913																	Special	69012010	913	SQ.YD.	Geotextile Fabric																											
																										EROSION CONTROL																								
<del>207</del>	<del>1237</del>																		<del>877</del>	<del>207</del>	30000	1237	LIN.FT.	Filter Fabric Fence																										
<del>207</del>	<del>220</del>																		<del>877</del>	<del>207</del>	96000	220	LIN.FT.	Ditch Check - Filter Fabric Fence																										
<del>207</del>	<del>350</del>																		<del>207</del>	<del>96000</del>	<del>350</del>	<del>LIN.FT.</del>	<del>Inlet Protection - Filter Fabric Fence</del>																											
653				691															653	10000	691	CU.YD.	Topsoil Furnished and Placed																											
659					1357	2356	1886	1557	436	900									659	10000	8292	SQ.YD.	Seeding and Mulching																											
<del>659</del>					<del>116</del>														<del>659</del>	<del>14000</del>	<del>416</del>	<del>SQ.YD.</del>	<del>Repair Seeding and Mulching</del>																											
<del>659</del>																			<del>659</del>	<del>20000</del>	<del>0.79</del>	<del>TON</del>	<del>Commercial Fertilizer</del>																											
659				314															659	35000	314	M.GAL.	Water																											
670					212														670	00500	212	SQ.YD.	Slope Erosion Protection																											
870				415															870	14000	415	SQ.YD.	Repair Seeding and Mulching																											
870				0.07															870	20000	0.07	TON	Commercial Fertilizer																											
870				4.5															870	35000	4.5	M.GAL.	Water																											
877				1659															877	10000	1659	SQ.YD.	Temporary Seeding and Mulching																											
877				729															877	30100	729	LIN.FT.	Temporary Perimeter Filter Fabric Fence																											
877				350															877	30300	350	LIN.FT.	Temporary Inlet Protection Filter Fabric Fence																											
877				436															877	50000	436	CU.YD.	Temporary Sediment Basins and Sediment Dams																											
																										DRAINAGE																								
601					11.1														601	32200	11.1	CU.YD.	Rock Channel Protection, Type C with Filter																											
602					0.25														602	20000	0.25	CU.YD.	Concrete Masonry																											
603				200															603	00200	200	LIN.FT.	4" Conduit, Type C																											
603				50															603	00406	50	LIN.FT.	4" Conduit, Type F																											
603				300															603	01100	300	LIN.FT.	6" Conduit, Type C																											
603					27	14		26		10									603	01500	77	LIN.FT.	6" Conduit, Type F																											
603				50															603	01800	50	LIN.FT.	8" Conduit, Type B																											
603											30								603	04400	30	LIN.FT.	12" Conduit, Type B, 706.02 or 707.33																											
603					42														603	04900	42	LIN.FT.	12" Conduit, Type D, 706.02																											
603					150	150													603	19200	300	LIN.FT.	15" Conduit, Type C, 706.02																											
604					2														604	36600	2	Each	Precast Reinforced Concrete Outlet																											
604				2															604	37000	2	Each	Inspection Well																											

GENERAL SUMMARY  
 S.R. 104 /  
 STRINGTOWN RD.  
 8 / 37



ITEM	SHEET NUMBERS																ITEM	ITEM EXT.	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
	4	5	6	Supplemental Calcs.	7	10	11	12	13	20	21	25	28	29								
DRAINAGE (CONT'D)																						
604							1			1	1					604	04500	3	EACH	Catch Basin, No. 2-28		
604											1					604	34500	1	EACH	Catch Basin, Adjusted To Grade		
605						400	798	414		365	493					605	05100	2470	LIN.FT.	4" Shallow Pipe U.D.		
605								353	685							605	05100	1038	LIN.FT.	4" Unclassified Pipe U.D.		
PAVEMENT																						
252																252	01500	3565	LIN.FT.	Full Depth Pavement Sawing		
301			961													301	46000	961	CU.YD.	Bituminous Aggregate Base, PG-64-22		
301				18												301	46000	18	CU.YD.	Bituminous Aggregate Base, PG-64-22 (Driveways)		
304			524													304	20000	524	CU.YD.	Aggregate Base		
304				145												304	20000	145	CU.YD.	Aggregate Base, (Driveways)		
403				106												403	20000	106	CU.YD.	Asphalt Concrete, PG64-22 (Item 403, 1997 ODOT CMS)		
<del>407</del>			<del>787</del>													<del>407</del>	<del>10000</del>	<del>787</del>	<del>GAL</del>	<del>Tack Coat, Bituminous</del>		
407			787													407	10000	787	GAL	Tack Coat, Bituminous		
408				360												408	10000	360	GAL	Bituminous Prime Coat		
Special			153													Special		153	CU.YD.	Asphalt Concrete, PG64-22 (Item 402, 1997 ODOT CMS)		
Special				76												Special		76	CU.YD.	Asphalt Concrete, PG64-22 (Driveways) (Item 404, 1997 ODOT CMS)		
Special			110													Special		110	CU.YD.	Asphalt Concrete, PG64-22 (Item 404, 1997 ODOT CMS)		
Special			183													Special		183	CU.YD.	Asphalt Concrete Overlay, PG 64-22 (Item 404, 1997 ODOT CMS)		
Special																Special		3565	LIN.FT.	Crack Sealing, Hot Applied (Item 413, 2002 C.O.C. CMS)		
MAINTENANCE OF TRAFFIC																						
614														100		614	11100	100	HOURL	Law Enforcement Officer with Patrol Car		
616			11													616	10000	11	M. GAL	Water		
616			1.1													616	20000	1.1	TON	Calcium Chloride		
TRAFFIC CONTROL																						
621												108				621	00100	108	EACH	Raised Pavement Marker		
630												55				630	03100	55	LIN. FT.	Ground-Mounted Support, No. 2 Post		
630												188				630	03100	188	LIN. FT.	Ground-Mounted Support, No. 3 Post		
630												12				630	08500	12	LIN. FT.	Street Name Sign Support, No. 2 Post		
630												37				630	80100	37	SQ. FT.	Sign, Flat Sheet, Type G		
630												15				630	80100	15	SQ. FT.	Sign, Flat Sheet, Type J		
630												2				630	84900	2	EACH	Removal of Ground Mounted Sign & Disposal		
630												14				630	85100	14	EACH	Removal of Ground Mounted Sign & Reerection		
630												14				630	86002	14	EACH	Removal of Ground Mounted Post Support & Disposal		
642												0.73				642	00090	0.73	MILE	Edge Line, 5"		
642												0.46				642	00290	0.46	MILE	Center Line, 5"		
642												716				642	00390	716	LIN. FT.	Channelizing Line, 10"		
642												35				642	00490	35	LIN. FT.	Stop Line, 20"		
642												159				642	00690	159	LIN. FT.	Transverse Line, 20"		
642												11				642	01290	11	EACH	Lane Arrow		
642												3				642	01408	3	EACH	Word On Pavement, 96"		
644												0.73				644	00100	0.73	MILE	Edge Line, 5"		
644												0.46				644	00300	0.46	MILE	Center Line, 5"		
644												716				644	00400	716	LIN. FT.	Channelizing Line, 10"		
644												35				644	00500	35	LIN. FT.	Stop Line, 20"		
644												159				644	00700	159	LIN. FT.	Transverse Line, 20"		
644												11				644	01300	11	EACH	Lane Arrow		
644												3				644	01410	3	EACH	Word On Pavement, 96"		
MISCELLANEOUS																						
614															LUMP	614	11001	LUMP	SUM	Maintaining Traffic, As Per Plan		
619			Lump													619	16011	LUMP	SUM	Field Office, Type B, As Per Plan		
623																623	10000	LUMP	SUM	Construction Layout Stakes		
624																624	10000	LUMP	SUM	Mobilization		

Q:\PROJECT\2003\112\DWG\1112562.DWG - J. XREYS: KEG XZF XZV - PLOTTED BY: CHUMPHREYS - April 24, 2004 - 9:29 AM

GENERAL SUMMARY

S.R. 104 /  
 STRINGTOWN RD.

**NOTE:**  
 \* Taper Shoulder from Ex. to 4' in 25'.  
 \*\* Taper Shoulder from Ex. to 6' in 100.0'.

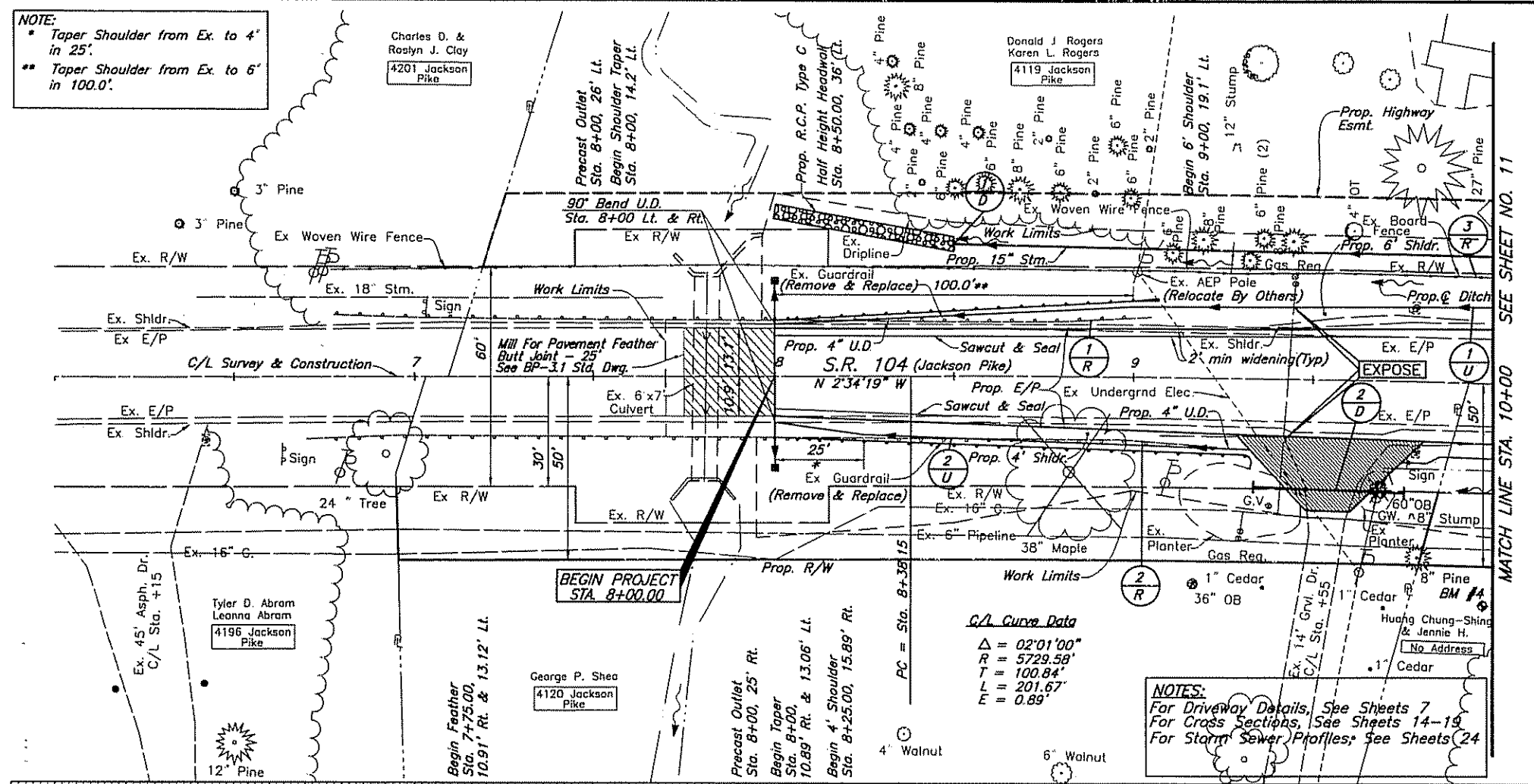
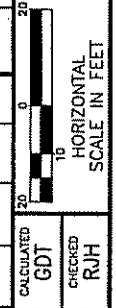
Charles D. & Roslyn J. Clay  
 4201 Jackson Pike

Donald J. Rogers  
 Karen L. Rogers  
 4119 Jackson Pike

Tyler D. Abram  
 Leanna Abram  
 4196 Jackson Pike

George P. Shea  
 4120 Jackson Pike

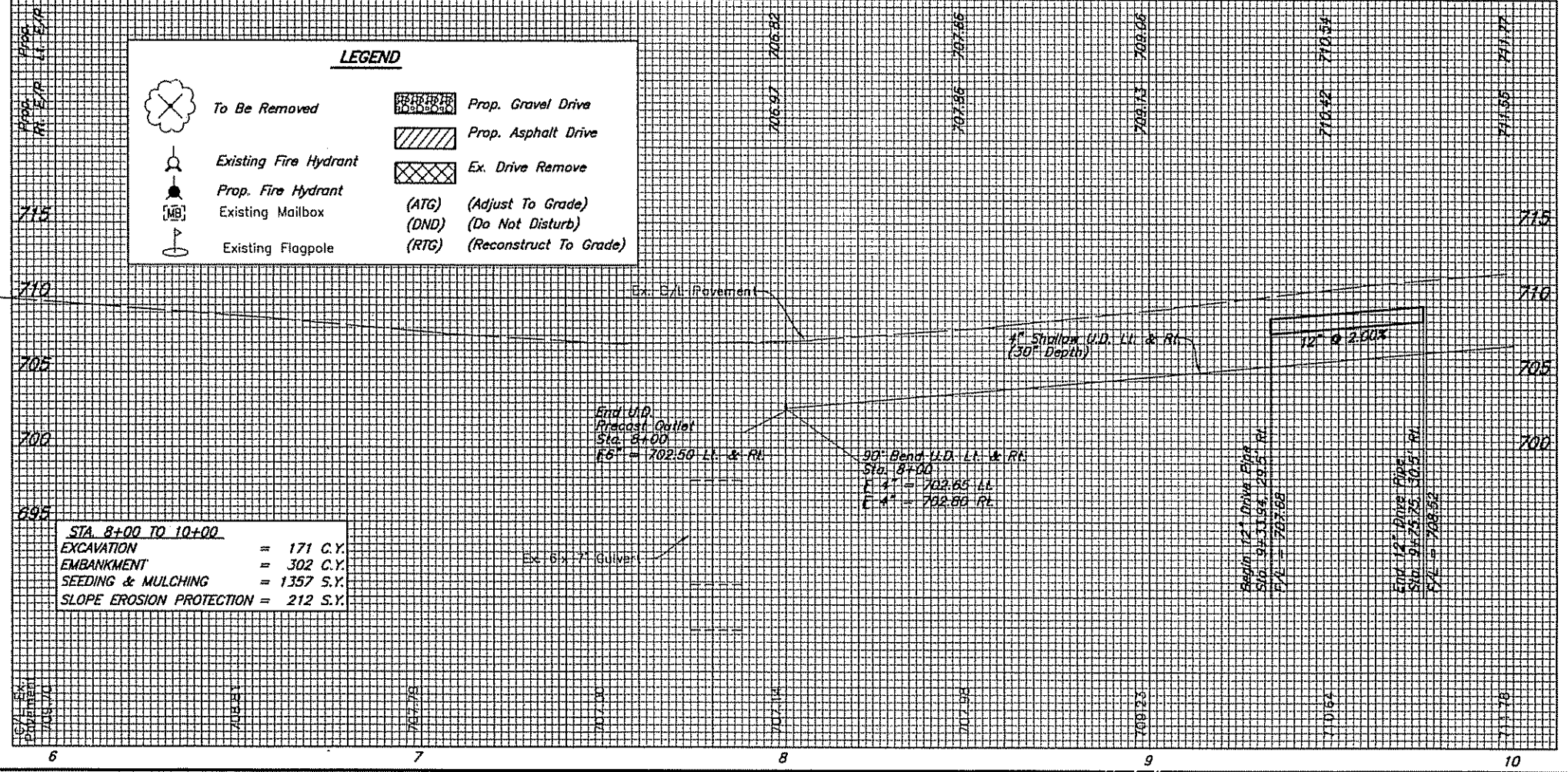
BM #4  
 Iron pin set 35 feet N.E. of Power Pole  
 48 feet East of the East edge of pavement  
 on S.R. 104. Sta. 9+98.60, 60.51' Rt.  
 Elevation 711.844



SEE SHEET NO. 11  
 MATCH LINE STA. 10+00

**LEGEND**

	To Be Removed		Prop. Gravel Drive
	Existing Fire Hydrant		Prop. Asphalt Drive
	Prop. Fire Hydrant		Ex. Drive Remove
	Existing Mailbox	(ATG)	(Adjust To Grade)
	Existing Flagpole	(DND)	(Do Not Disturb)
		(RTG)	(Reconstruct To Grade)



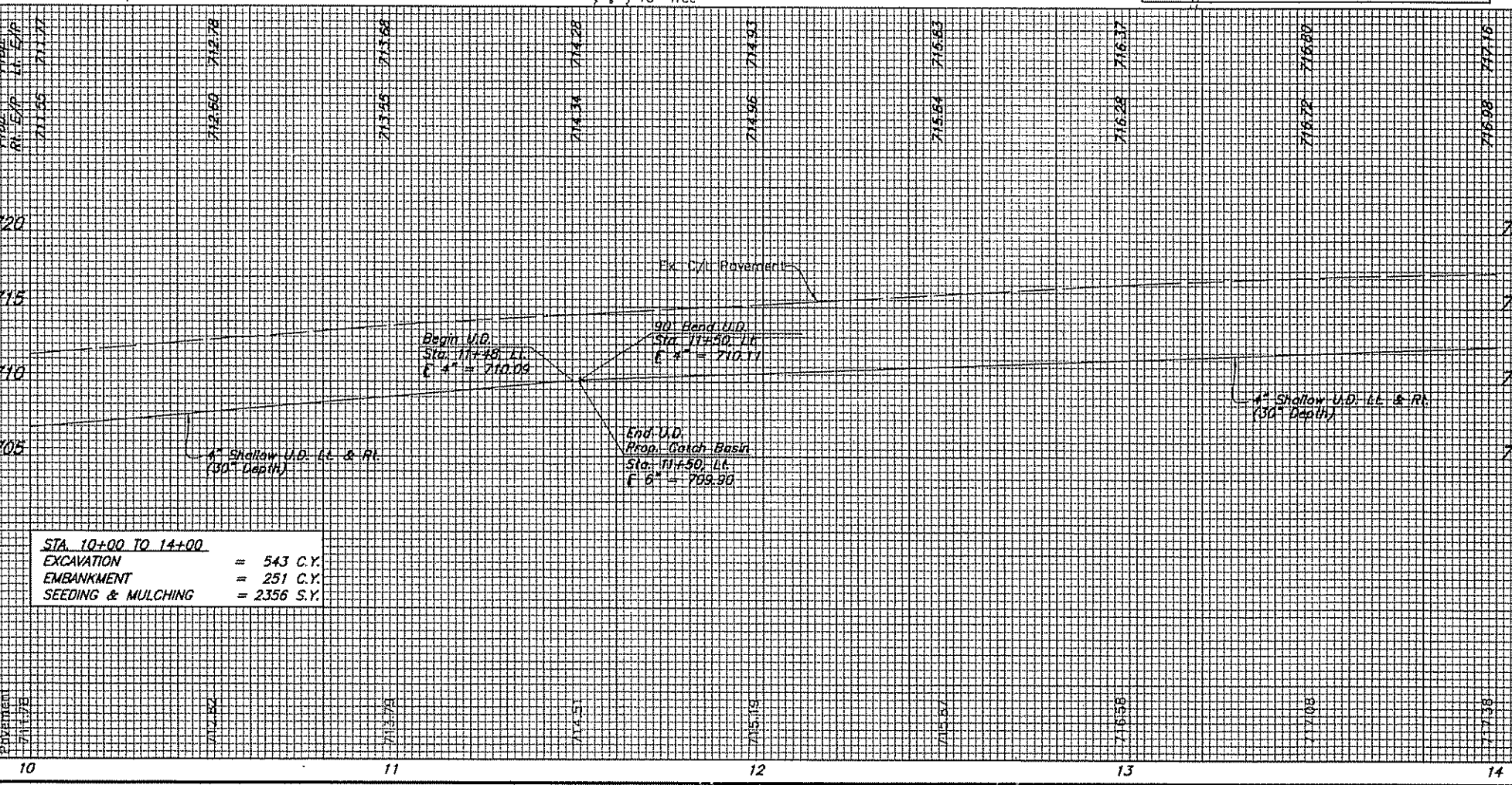
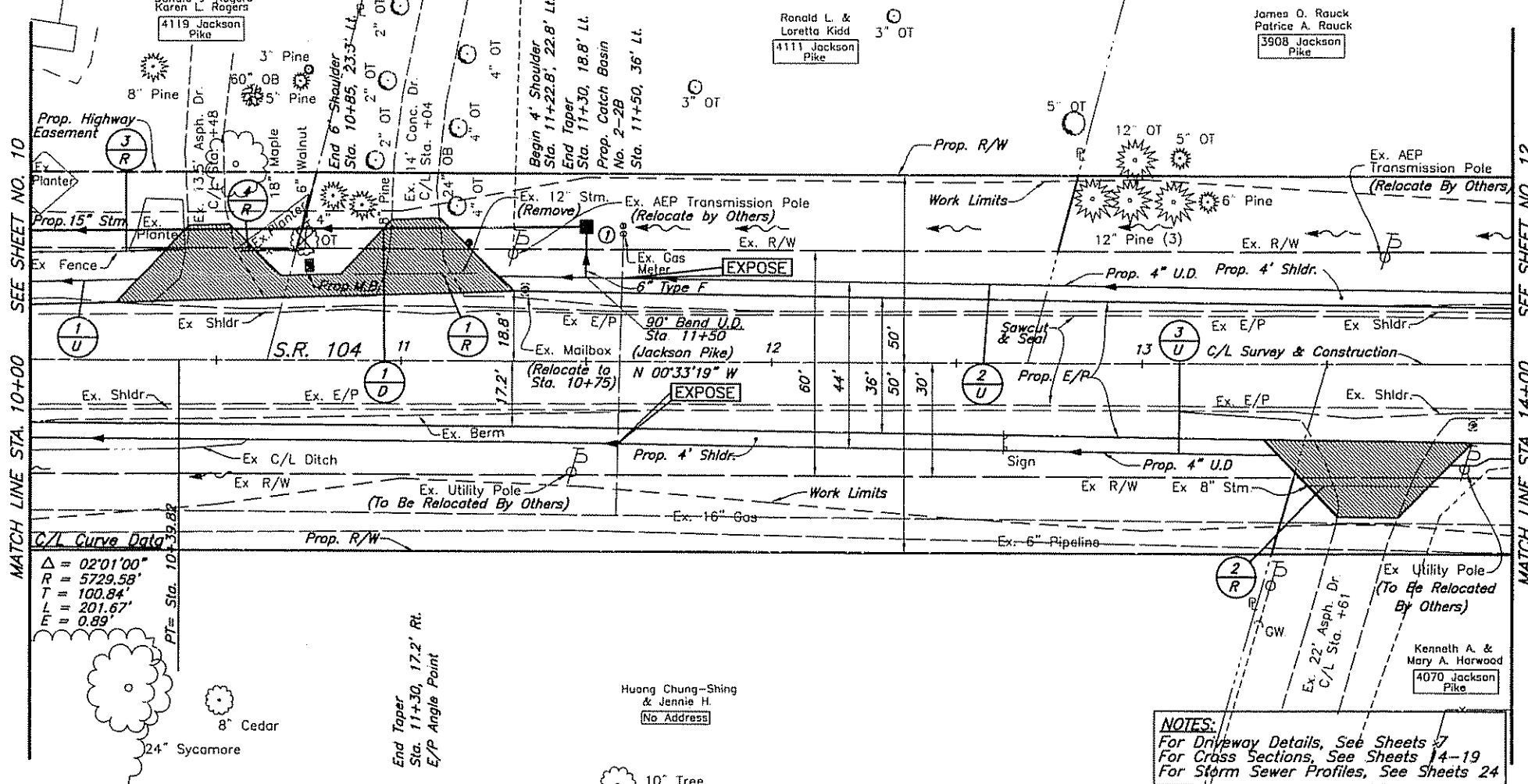
ESTIMATED QUANTITIES

REF. NO.	STATION TO	FROM	TO	STATION	SIDE	Lin. Ft.	Other	Lin. Ft.	Other	Lin. Ft.	Other	Lin. Ft.	Other	Lin. Ft.	Other	Lin. Ft.	Other	Lin. Ft.	Other	
1D	8+00	9+34	10+00	Lt.																
2D	9+34	9+76	10+00	Rt.																
1R	8+00	9+05	9+05	Lt.		105														
2R	8+00	9+23	9+23	Rt.		123														
3R	8+00	10+00	10+00	Lt.		200														
1U	8+00	10+00	10+00	Lt.																
2U	8+00	10+00	10+00	Rt.																
<b>TOTAL</b>						228	200													

S.R. 104 /  
 STRINGTOWN RD.  
 PLAN AND PROFILE—S.R. 104  
 STA. 6+50 TO STA. 10+00



G:\PROJECTS\20031112\DWG\31112PBLDWC - 10 AREFS: X20 XT X2N 31112PBR 31112ARW 31112ACL 31112XEU 31112PFC 31112PFC 31112PFC 31112PFC - PLOTTED BY CHUMPHREYS - April 24, 2004 - 9:22 AM



**STA. 10+00 TO 14+00**  
 EXCAVATION = 543 C.Y.  
 EMBANKMENT = 251 C.Y.  
 SEEDING & MULCHING = 2356 S.Y.

**NOTES:**  
 For Driveway Details, See Sheets 7  
 For Cross Sections, See Sheets 14-19  
 For Storm Sewer Profiles, See Sheets 24

**BM #4**  
 Iron pin set 35 feet N.E. of Power Pole  
 48 feet East of the East edge of pavement  
 on S.R. 104. Sta. 9+98.60, 60.51' Rt.  
 Elevation 711.844

REF. NO.	STATION TO STATION	SIDE	DESCRIPTION	QUANTITIES
1D	10+00	Lt.		
1R	10+87	Lt.		
2R	11+44	Rt.		
3R	10+00	Lt.		
4R	10+57	Lt.		
1U	10+00	Lt.		
2U	11+50	Rt.		
3U	10+00	Rt.		
TOTAL				

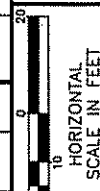
  

ESTIMATED QUANTITIES	202	202	603	603	604	605	TOTAL
Pipe Rem'd 24" & Under	69						69
Fence Rem'd		71					71
15" Conduit Type C			150				150
6" Conduit Type F							14
Catch Basin No. 2-28					1		1
4" Shallow U.D.							798
202							33
202							36
202							41
202							30
202							148
202							250
202							400

**S.R. 104 / STRINGTOWN RD.**  
**PLAN AND PROFILE-S.R. 104**  
**STA. 10+00 TO STA. 14+00**

11  
37

CALCULATED: GDT  
 CHECKED: RJH



CALCULATED GDT  
CHECKED RJH

PLAN AND PROFILE-S.R. 104  
STA. 14+00 TO STA. 18+00

S.R. 104 /  
STRINGTOWN RD.

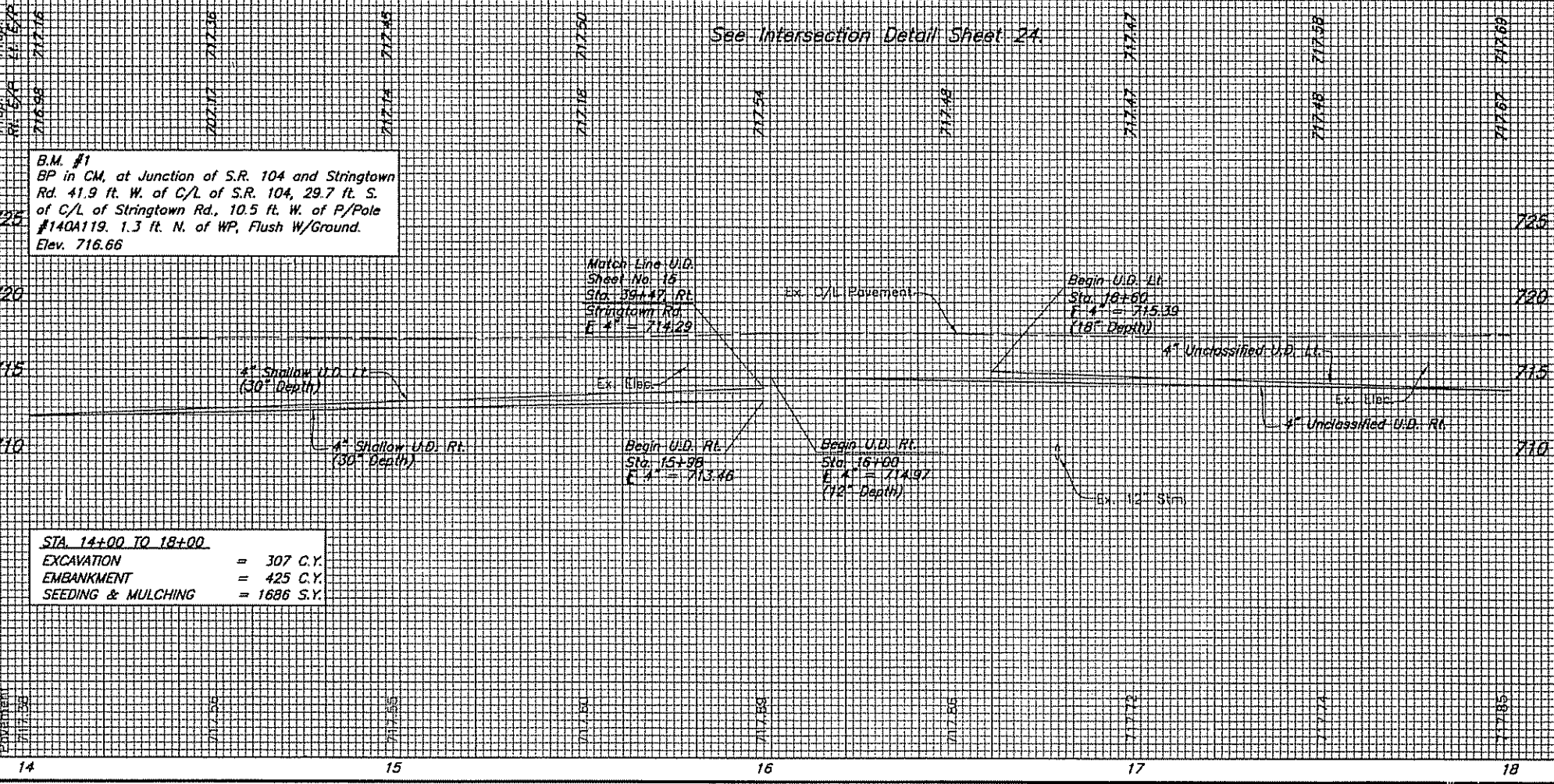
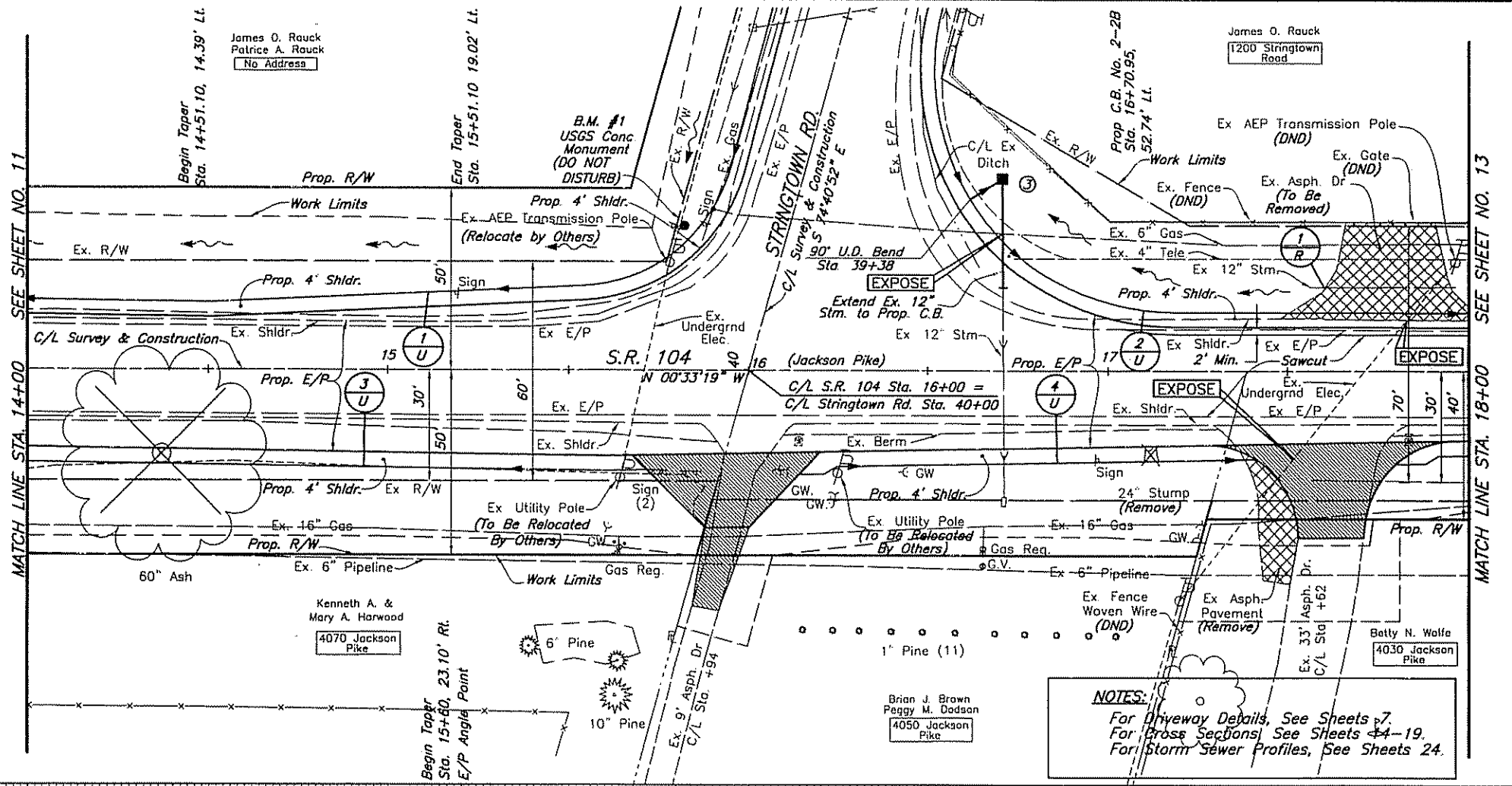
12  
37

2003112

REF. SHEET NO.	STATION TO STATION		SIDE	ESTIMATED QUANTITIES
	FROM	TO		
1U	14+00	39+47	Lt.	
2U	39+41	18+00	Lt.	
3U	14+00	15+98	Rt.	
4U	16+00	18+00	Rt.	
1R	17+56	17+96	Lt.	
TOTAL				
				202
				40
				414
				353

ESTIMATED QUANTITIES

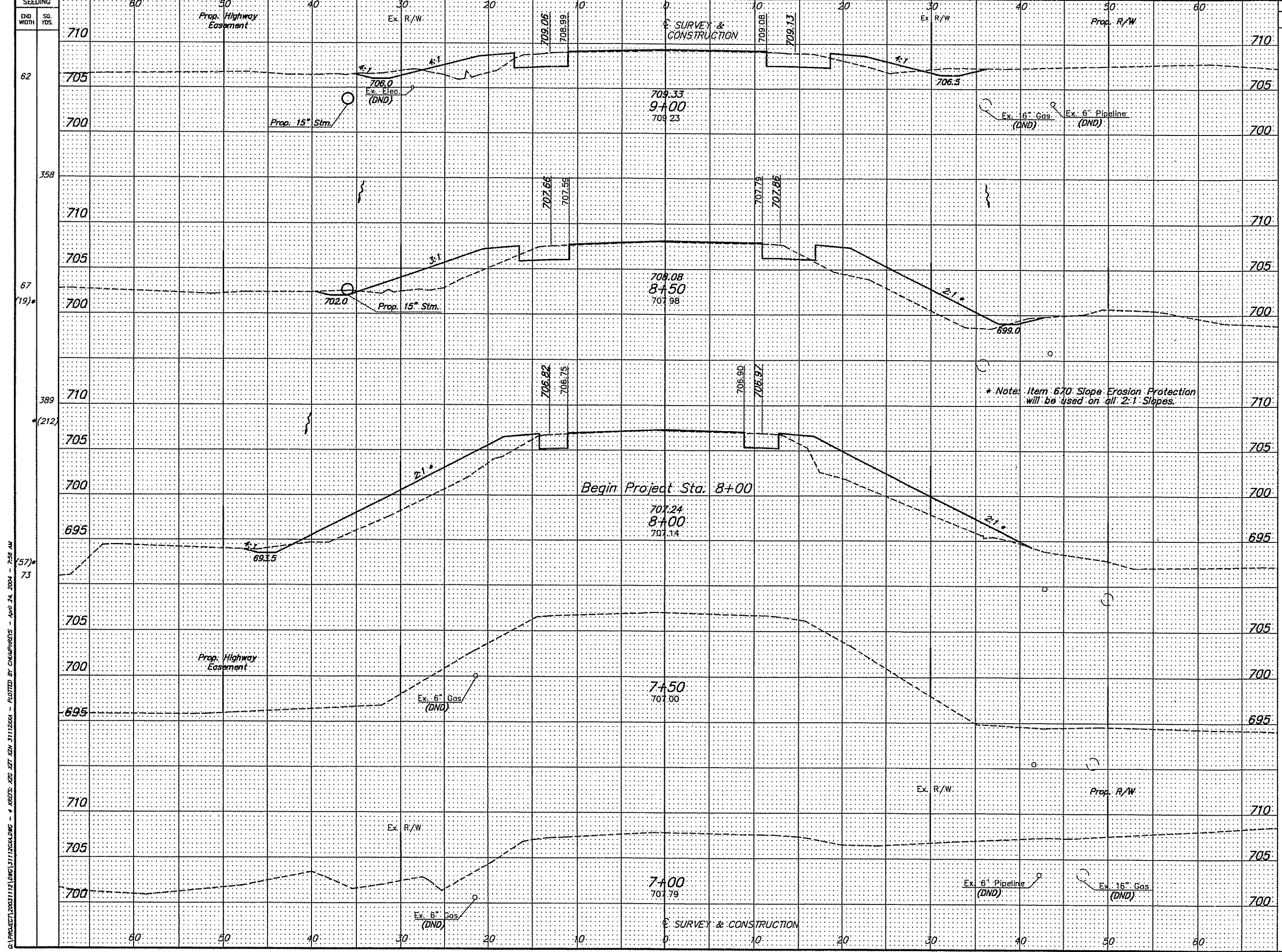
**NOTES:**  
 For Driveway Details, See Sheets 7.  
 For Cross Sections, See Sheets 4-19.  
 For Storm Sewer Profiles, See Sheets 24.



PROJECT: 20031112\DWG\3111262.DWG - 8 AREFS: X26 X27 X28 3111262L 3111262R 3111262E 3111262S 3111262W - PLOTTED BY CHUMPHREYS - April 23, 2004 - 3:37 PM

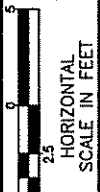






C:\PROJECT\20031112\DWG\111203A.DWG - 4 SHEETS: 200 271 272 273 274 - PLOTTED BY CHAMPBERS - April 24, 2004 - 2:36 AM

STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
710				
705	26	24		
700				
710			39	96
705				
700			16	80
710				
705			27	171
700				
695			13	105
705				
700				
695				
710				
705				
700				



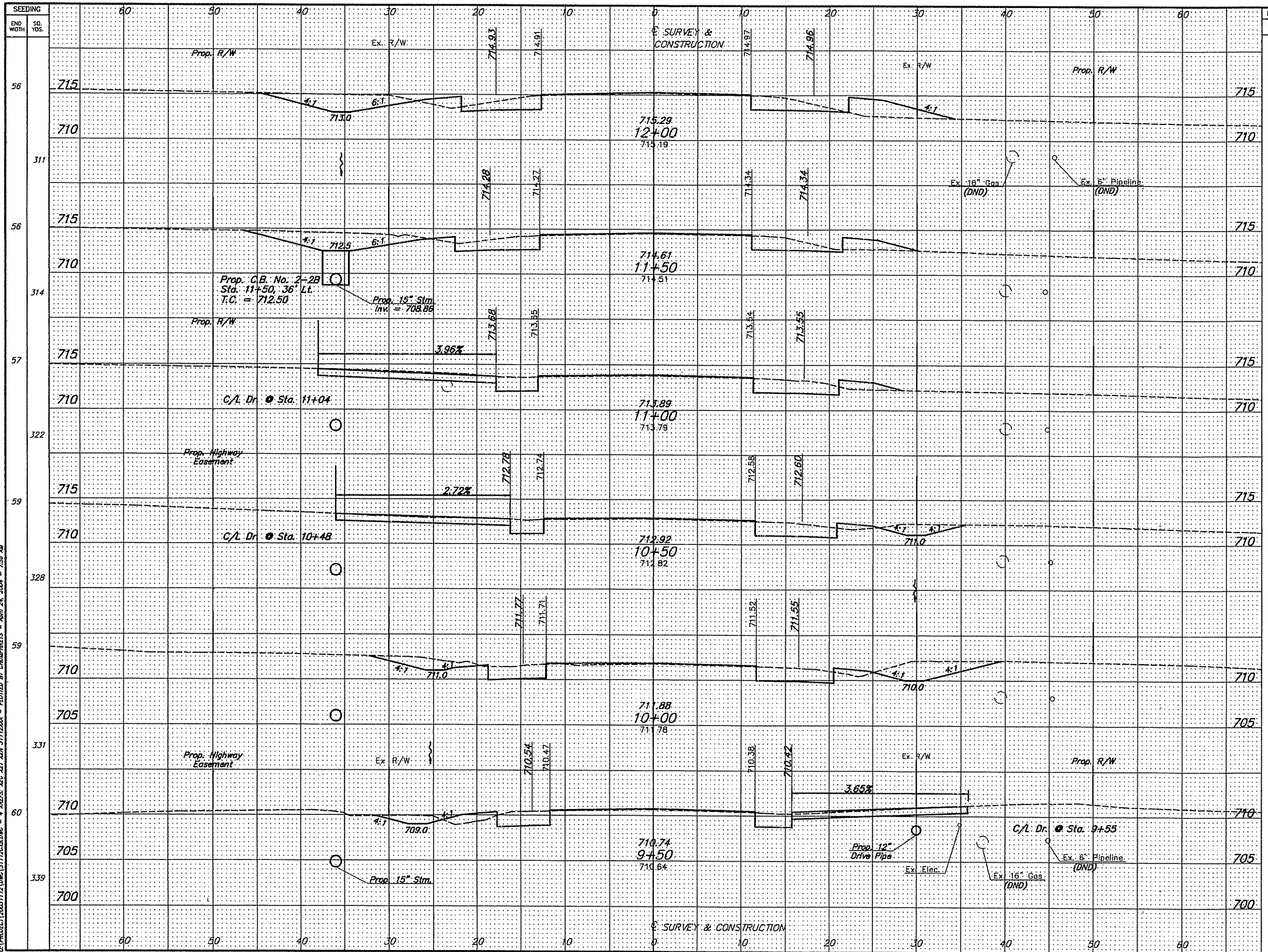
CALCULATED CUM. CUT 39  
 CHECKED R/JH 96

CROSS SECTIONS - S.R. 104  
 STA. 7+00 TO STA. 9+00

S.R. 104 /  
 STRINGTOWN RD.



Q:\PROJECTS\1001112\DWG\1112028.DWG - 4 SHEETS. XREF: XREF 1112028 - PLOTTED BY CHAMPAGNES - APRIL 24, 2004 - 7:59 AM



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
12+00				
11+50	41	19	82	25
11+00	48	8	64	12
10+50	21	5	44	6
10+00	26	2	69	6
9+50	49	4	63	8
9+00	19	5	42	27

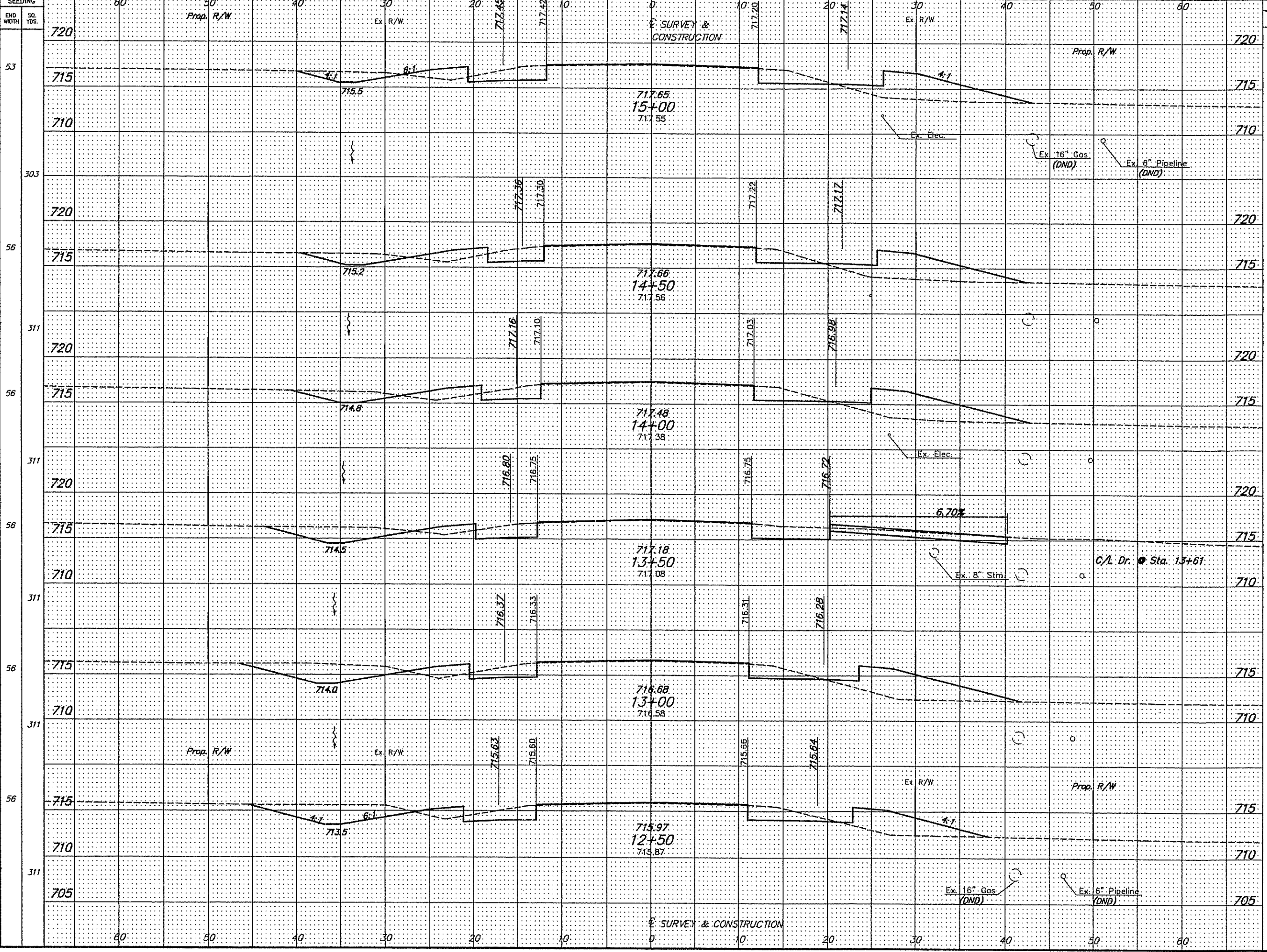


CALCULATED CUM  
 CHECKED RJH

CROSS SECTIONS - S.R. 104  
 STA. 9+50 TO STA. 12+00

S.R. 104 /  
 STRINGTOWN RD.

C:\PROJECT\2003\112\DWG\1112\CROSSING - 4 SHEETS: X02 SET 2XN 111224X - PLOTTED BY CHAMPREDS - April 24, 2004 - 2:56 AM



END STA.	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
27	40			
25	43			
47	81			
26	44			
59	45			
38	5			
72	45			
41	44			
76	68			
42	29			
77	44			

CALCULATED CJM  
CHECKED RJH

HORIZONTAL SCALE IN FEET

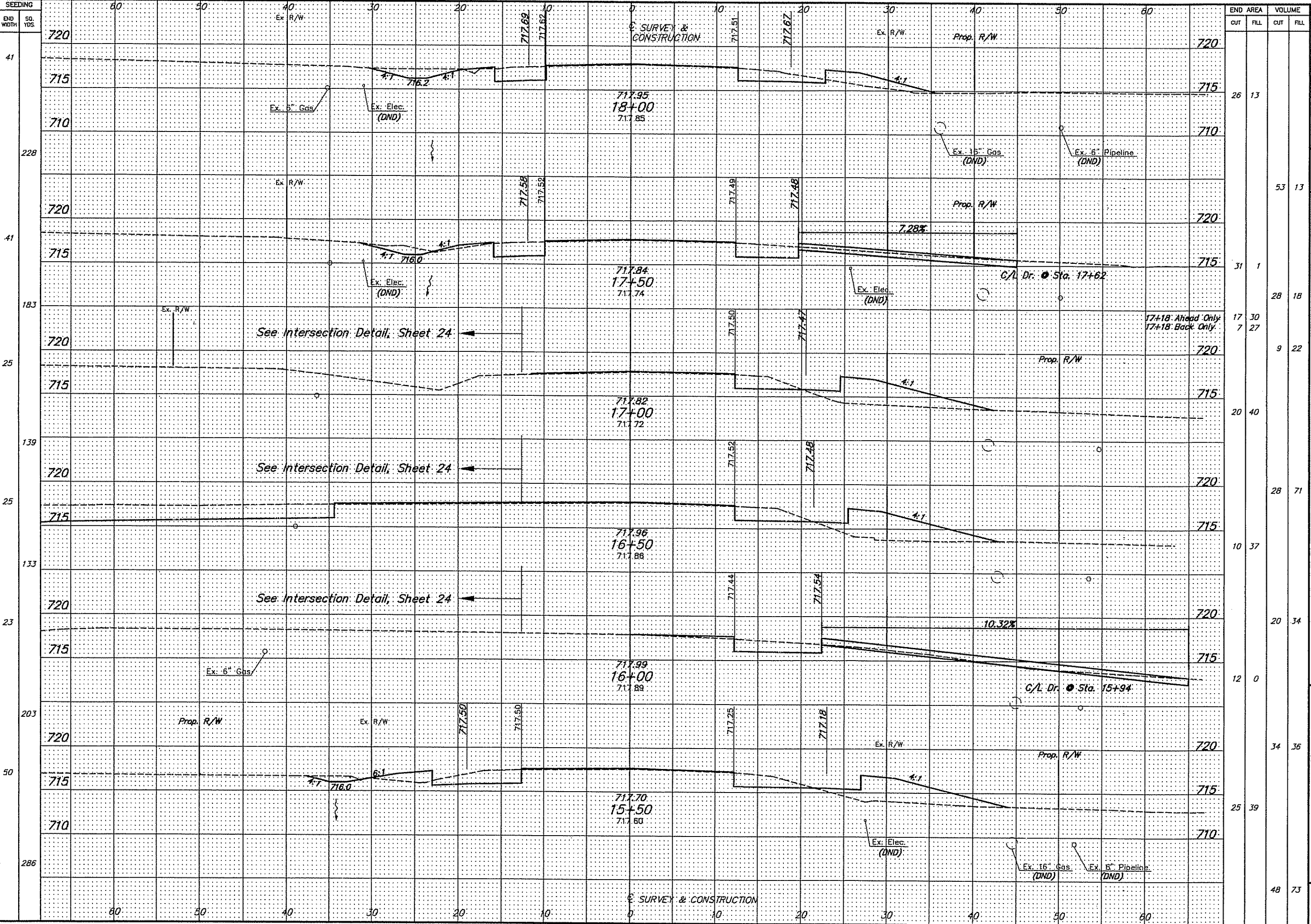
**CROSS SECTIONS - S.R. 104**  
**STA. 12+50 TO STA. 15+00**

**S.R. 104 /**  
**STRINGTOWN RD.**

16  
37



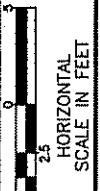
G:\PROJECT\20031121\DWG\17112200.DWG - 4 SHEETS. XREF XREF XREF XREF - PLOTTED BY CHAMPHERYS - APRIL 24, 2004 - 7:57 AM



SEEDING	END WIDTH	SO. YDS.	END AREA		VOLUME	
			CUT	FILL	CUT	FILL
41						
228			26	13		
41					53	13
183			31	1	28	18
25			17	30	7	27
139					9	22
25			20	40		
133					28	71
23					10	37
203					20	34
50			12	0		
286					34	36
			25	39		
			48	73		

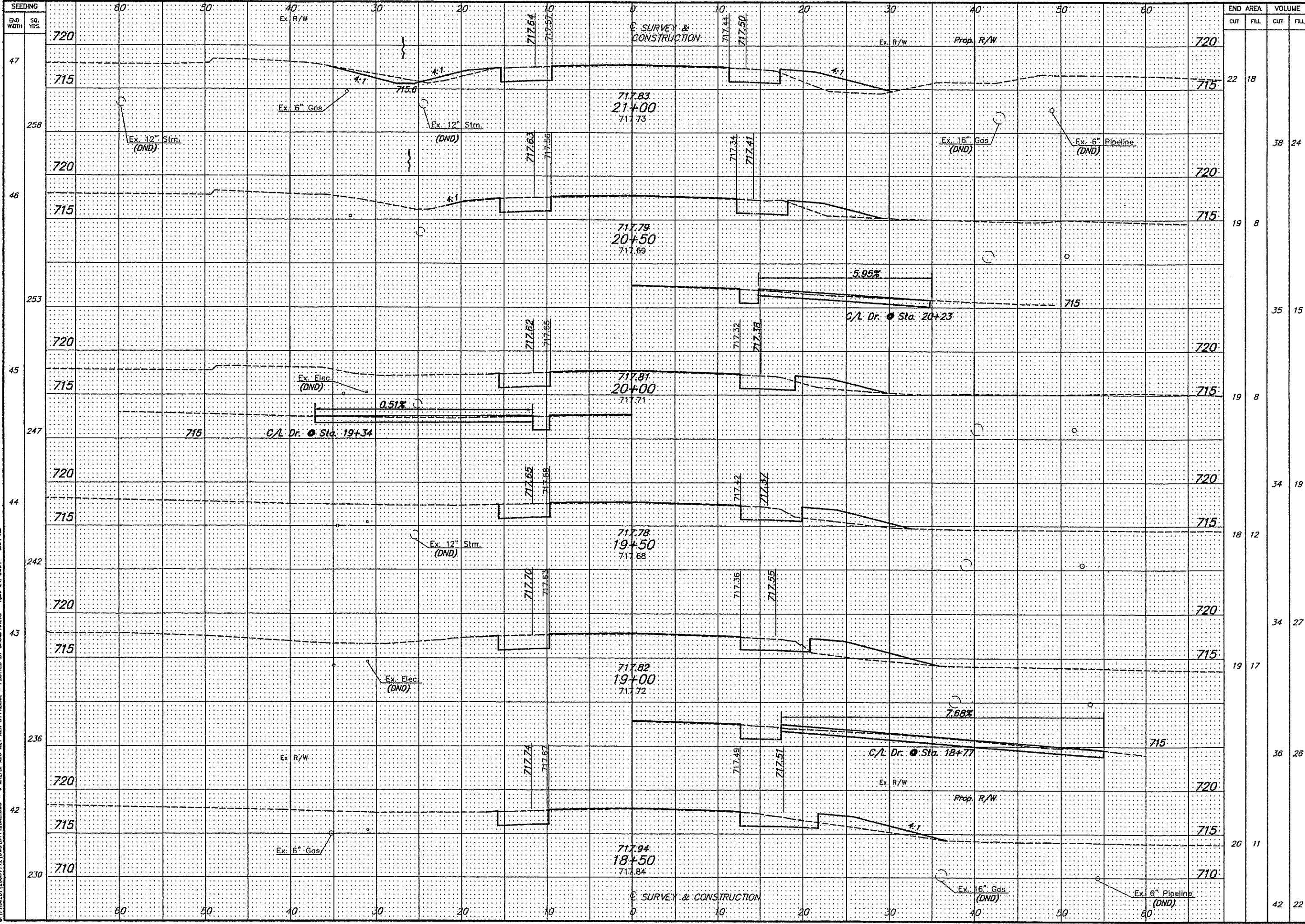
CROSS SECTIONS - S.R. 104  
STA. 15+50 TO STA. 18+00

S.R. 104 /  
STRINGTOWN RD.

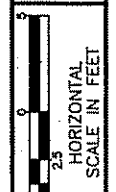


CALCULATED  
CJM  
CHECKED  
RJH

G:\PROJECT\20031112\DWG\11122024 - 4 XREFS.XTG XREF XREF J11122024 - PLOTTED BY CHAMPRETS - April 24, 2004 - 8:04 AM



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
21+00	22	18		
20+50	19	8		
20+23	35	15		
20+00	19	8		
19+50	34	19		
19+34	18	12		
19+00	34	27		
18+77	19	17		
18+50	36	26		
18+00	20	11		
17+50	42	22		



CALCULATED  
CJM  
CHECKED  
RJH

CROSS SECTIONS - S.R. 104  
STA. 18+50 TO STA. 21+00

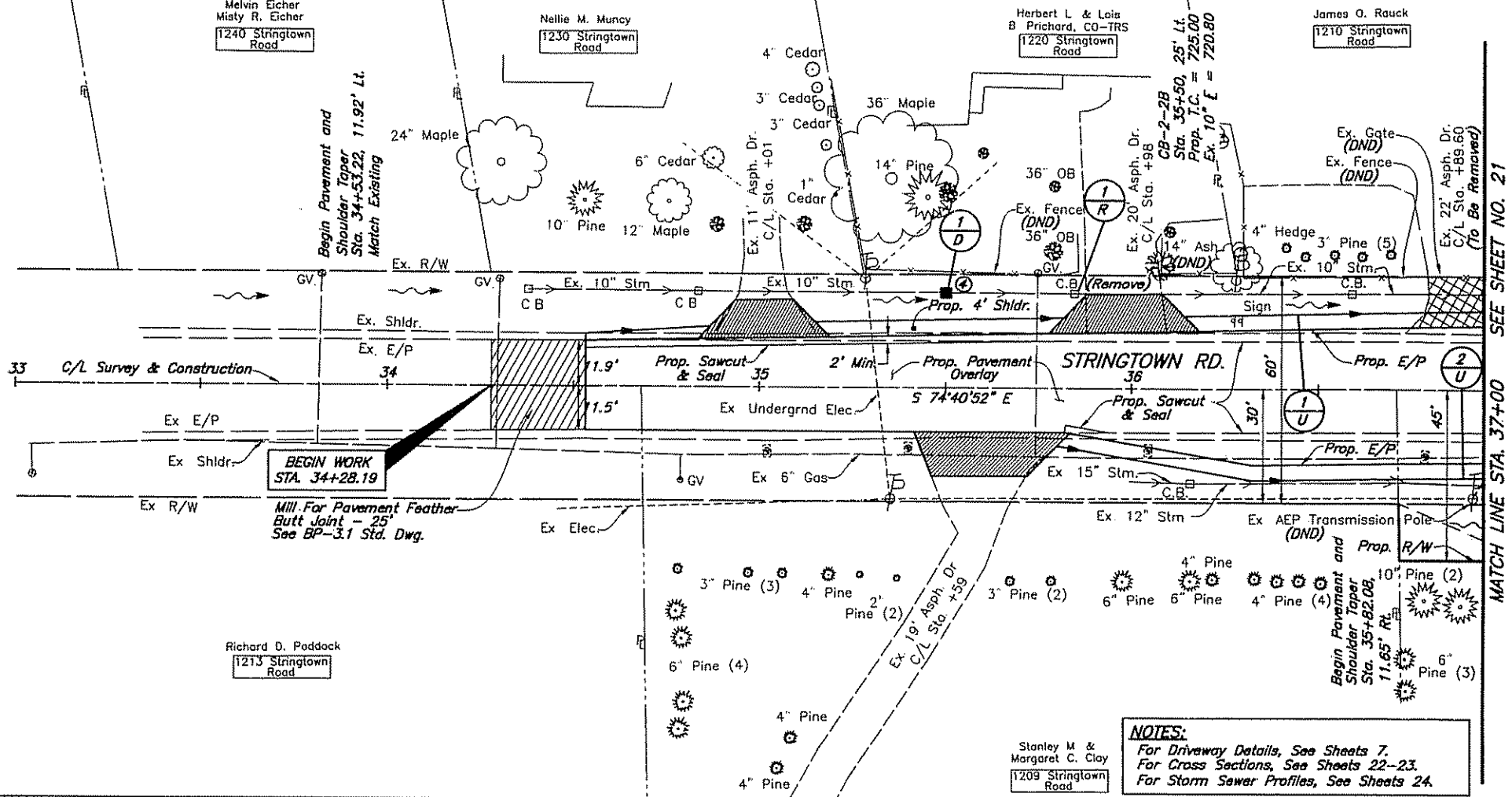
S.R. 104 /  
STRINGTOWN RD.

18 / 37



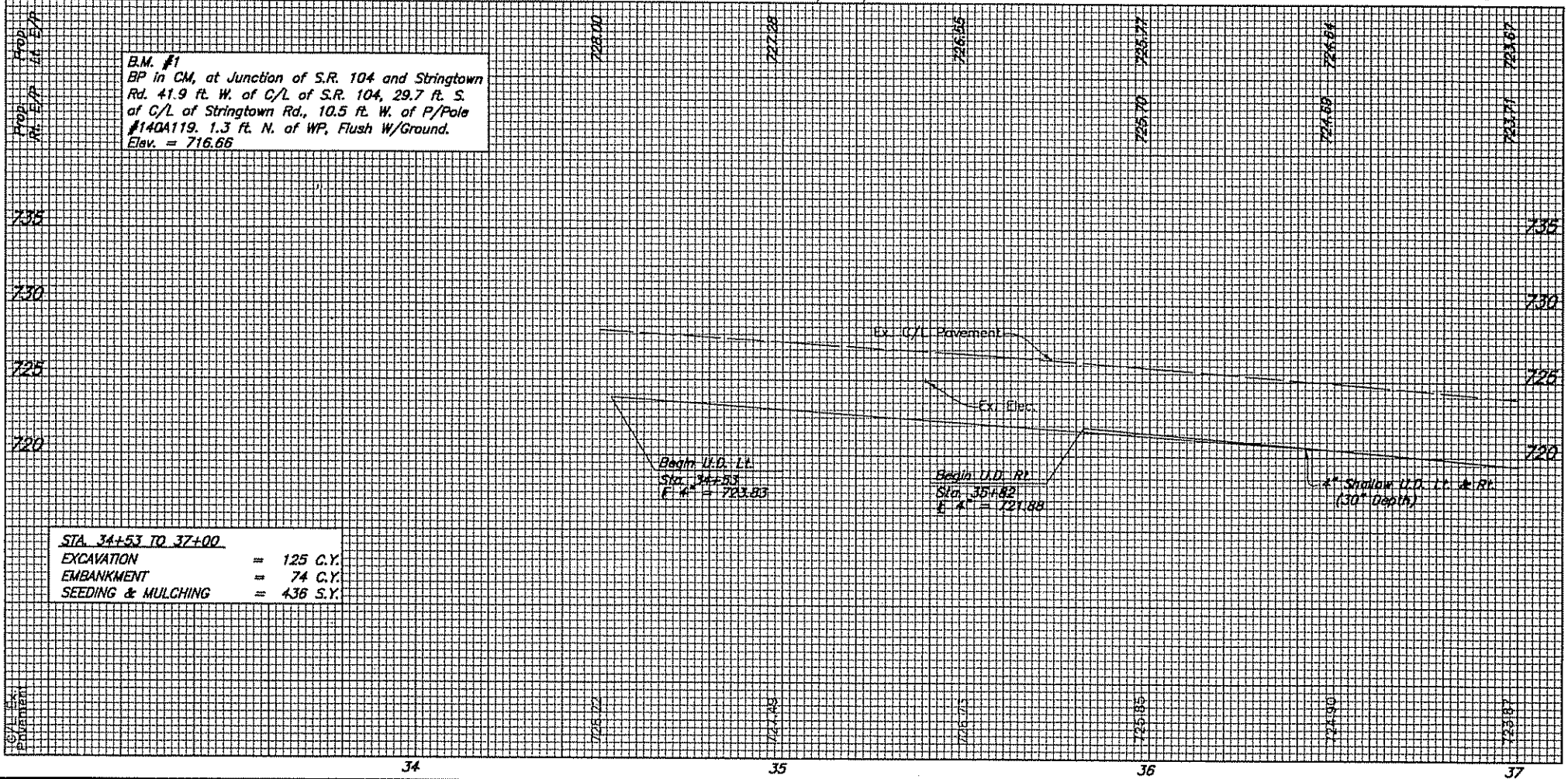


PROJECT: 20031112\DWG\3111209F.DWG - 10 XREFS: X26 X27 X28 3111206R 3111206S 3111206T 3111206U 3111206V 3111206W 3111206X 3111206Y 3111206Z - PLOTTED BY: CHUMPHREYS - April 23, 2004 - 3:30 PM



SEE SHEET NO. 21  
MATCH LINE STA. 37+00

**NOTES:**  
For Driveway Details, See Sheets 7.  
For Cross Sections, See Sheets 22-23.  
For Storm Sewer Profiles, See Sheets 24.



**STA. 34+53 TO 37+00**  
EXCAVATION = 125 C.Y.  
EMBANKMENT = 74 C.Y.  
SEEDING & MULCHING = 436 S.Y.

**B.M. #1**  
BP in CM, at Junction of S.R. 104 and Stringtown Rd. 41.9 ft. W. of C/L of S.R. 104, 29.7 ft. S. of C/L of Stringtown Rd., 10.5 ft. W. of P/Pole #140A119. 1.3 ft. N. of WP, Flush W/Ground. Elev. = 716.66

REF. NO.	STATION TO STATION		SIDE	ESTIMATED QUANTITIES	
	FROM	TO		202	604
TU	34+53	37+00	LL		
TU	35+82	37+00	RL		
TD	35+80		LL	1	
TR	35+85		LL		1
TOTAL				1	1
					365

PLAN AND PROFILE-Stringtown Rd.  
STA. 34+28.19 TO STA. 37+00

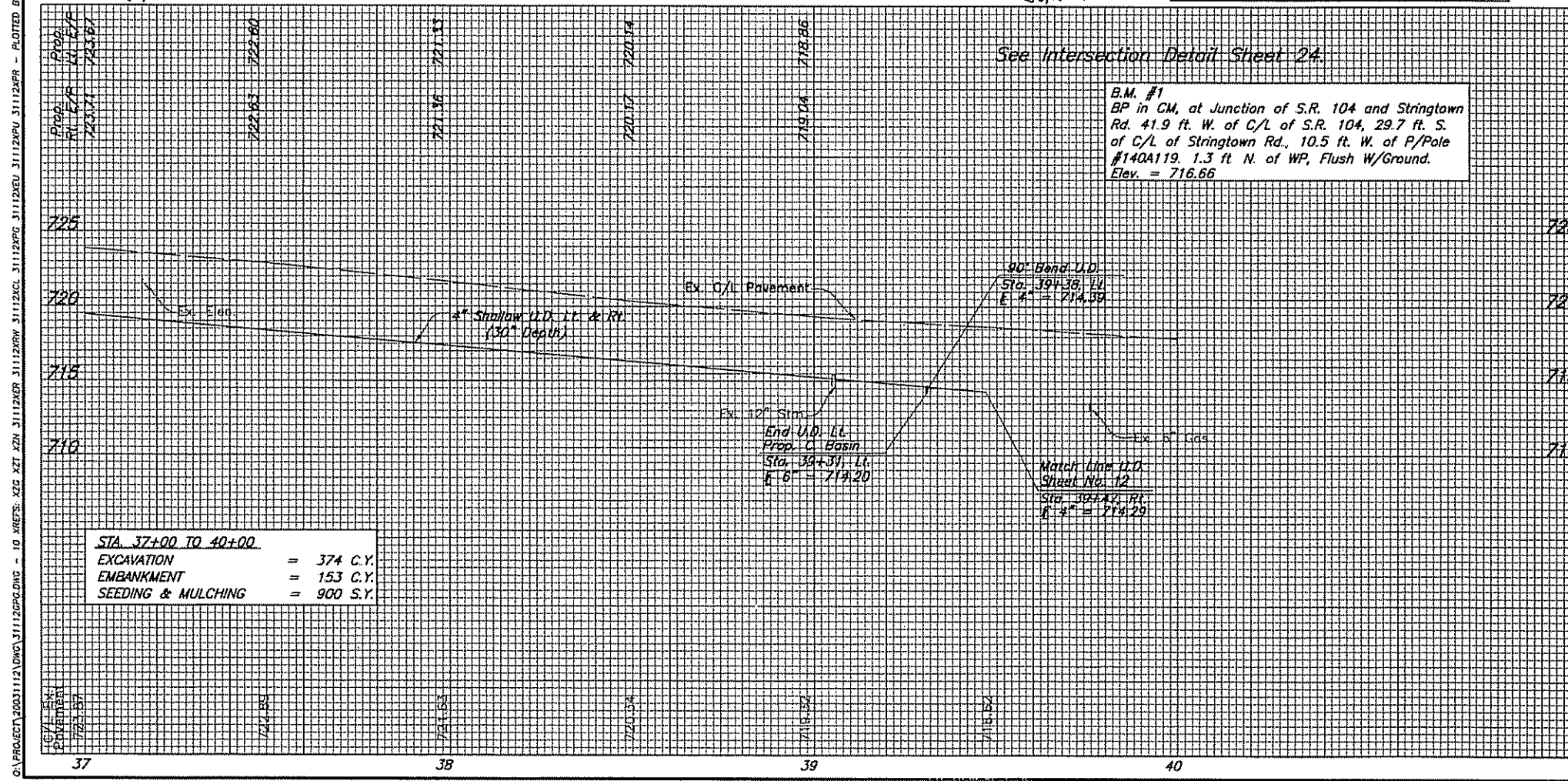
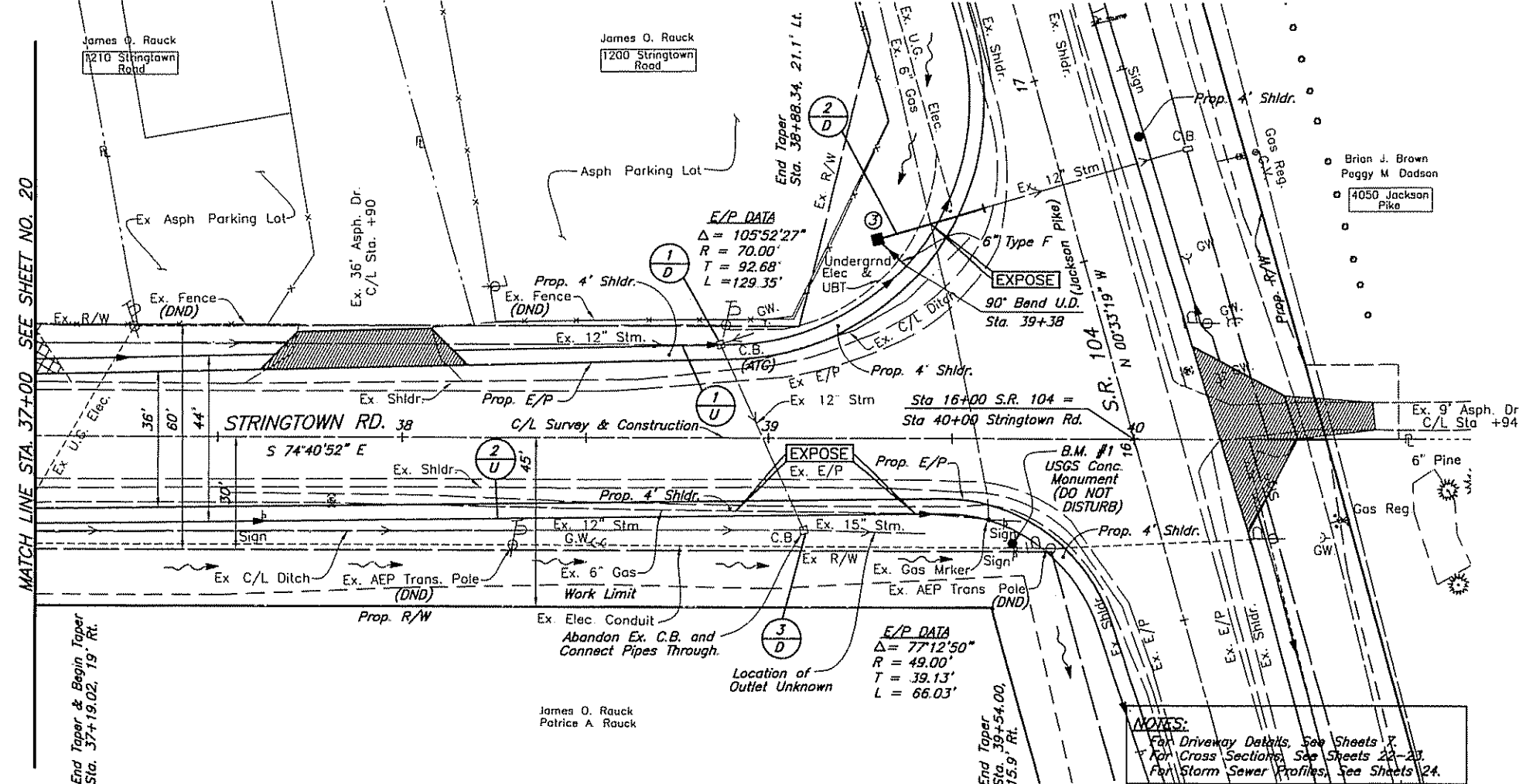
S.R. 104 /  
STRINGTOWN RD.

20  
37

CALCULATED: GDT  
CHECKED: RJH



GA:\PROJECT\2003\1112\DWG\1112CPC.DWG - 10 XREFS: XZG XZT XZN 31112ARW 31112ARV 31112APG 31112APU 31112APR - PLOTTED BY CHUMPHREYS - April 23, 2004 - 3:59 PM



**STA. 37+00 TO 40+00**

EXCAVATION	=	374 C.Y.
EMBANKMENT	=	153 C.Y.
SEEDING & MULCHING	=	900 S.Y.

REF. STATION TO STATION SIDE	# - Connect Pipes Through		ESTIMATED QUANTITIES					SEE SHEET NO.
	FROM	TO	202 C.B. Aband. # Each	603 12" Conduit Type B Lin.Ft.	603 6" Conduit Type F Lin.Ft.	604 C.B. Adjust To Grade Each	604 Catch Basin No. 2-2B Each	
1U 37+00	39+41	Lt.						
2U 37+00	39+47	Rt.						
1D 38+87		Lt.				1		
2D 39+31	39+60	Lt.		30				
3D 39+09		Rt.	1		10			
TOTAL			1	30	10	1	1	493



20'  
0'  
0'  
HORIZONTAL SCALE IN FEET

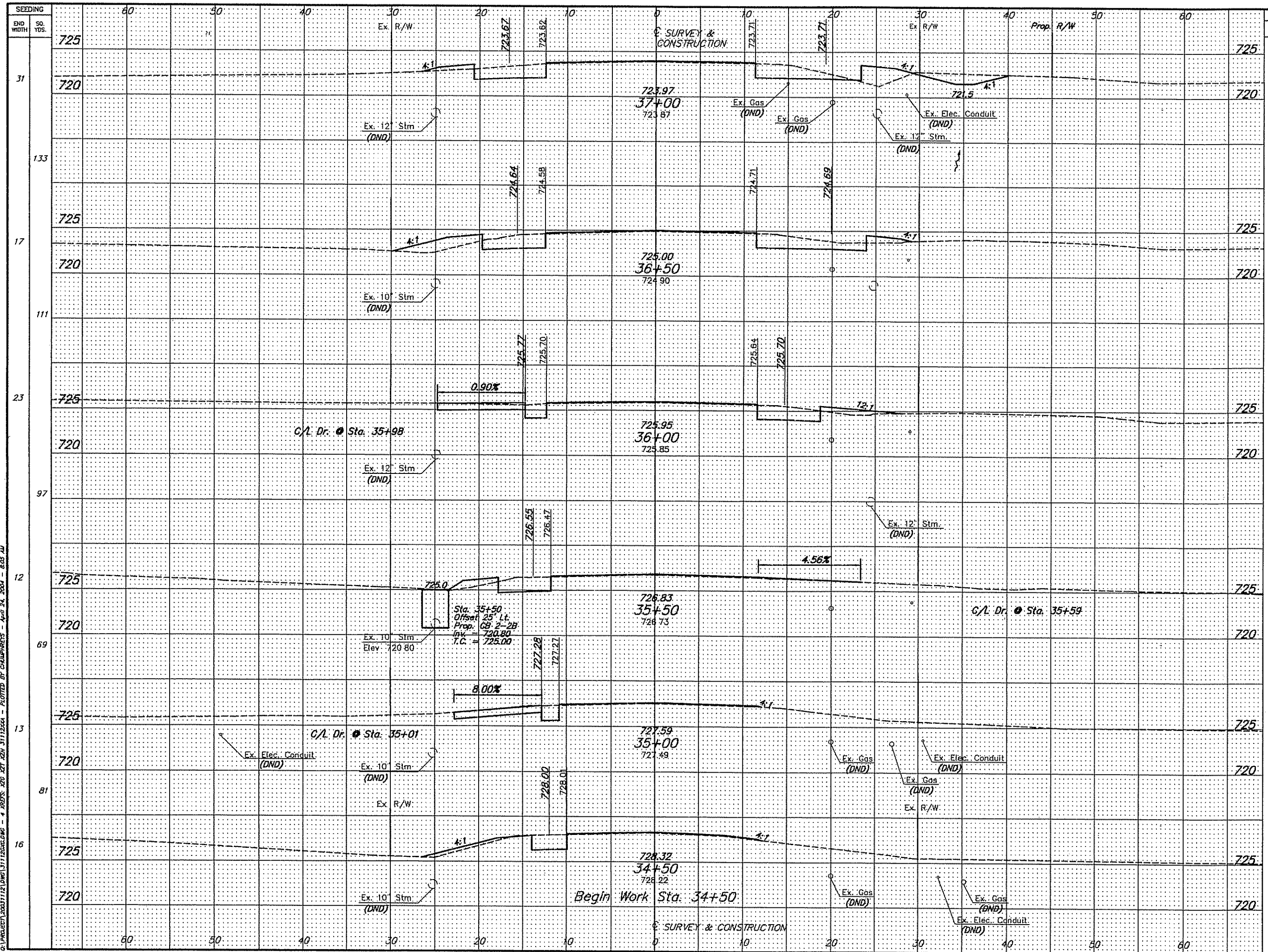
PLAN AND PROFILE-Stringtown Rd.  
STA. 37+00 TO STA. 40+00

S.R. 104 /  
STRINGTOWN RD.

21  
37

20031112

C:\PROJECTS\2023\112\DWG\1112224 - 4 SHEETS SET REV 1112224 - PLOTTED BY CHAMPRES - April 24, 2024 - 8:05 AM



STATION	END AREA		VOLUME	
	CUT	FILL	CUT	FILL
37+00	29	11	49	43
36+50	24	12	35	15
36+00	14	4	21	8
35+50	9	5	11	5
35+00	3	0	9	3
34+50	7	3		

S.R. 104 / STRINGTOWN RD.

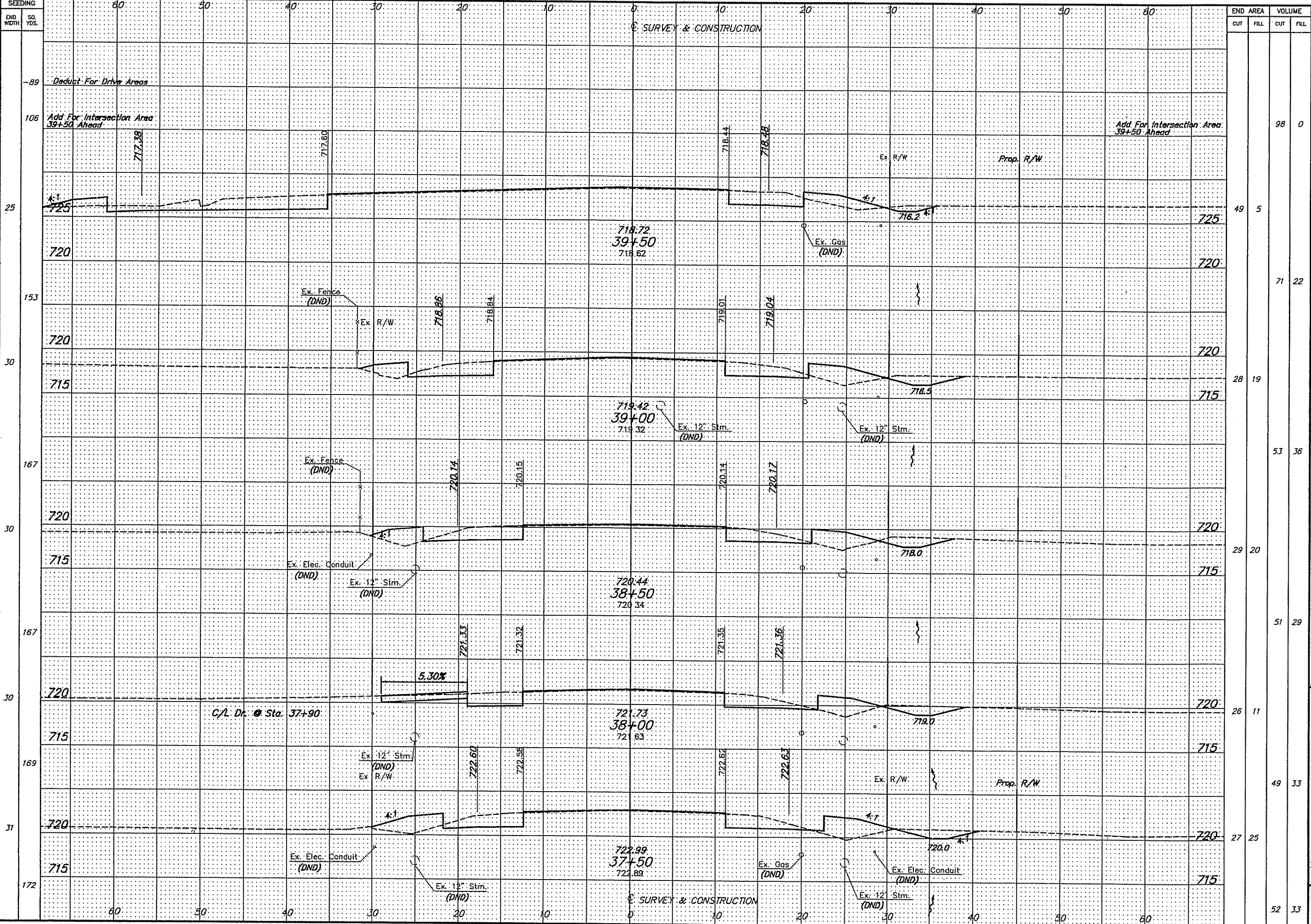
CROSS SECTIONS - STRINGTOWN RD  
STA. 34+50 TO STA. 37+00

22  
37





G:\PROJECT\2001112\DWG\31112\CROSS-SECTION - PLOTTED BY CHAMPAREYS - APRIL 24, 2004 - 8:05 AM



SEEDING	
END WIDTH	SQ. YDS.

END AREA		VOLUME	
CUT	FILL	CUT	FILL



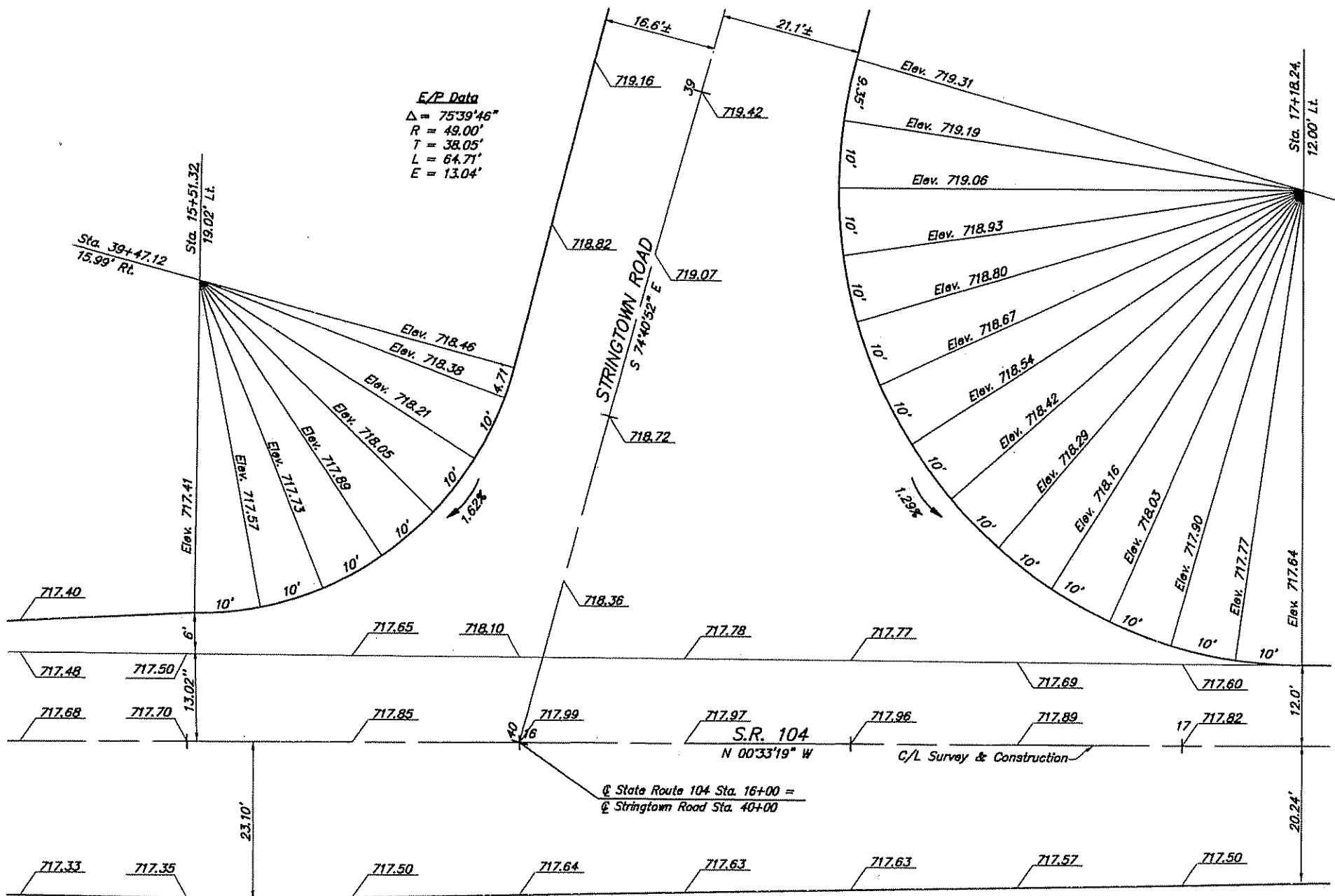
CALCULATED  
CJM  
CHECKED  
RUH

CROSS SECTIONS - STRINGTOWN RD  
STA. 37+50 TO STA. 39+50

S.R. 104 /  
STRINGTOWN RD.

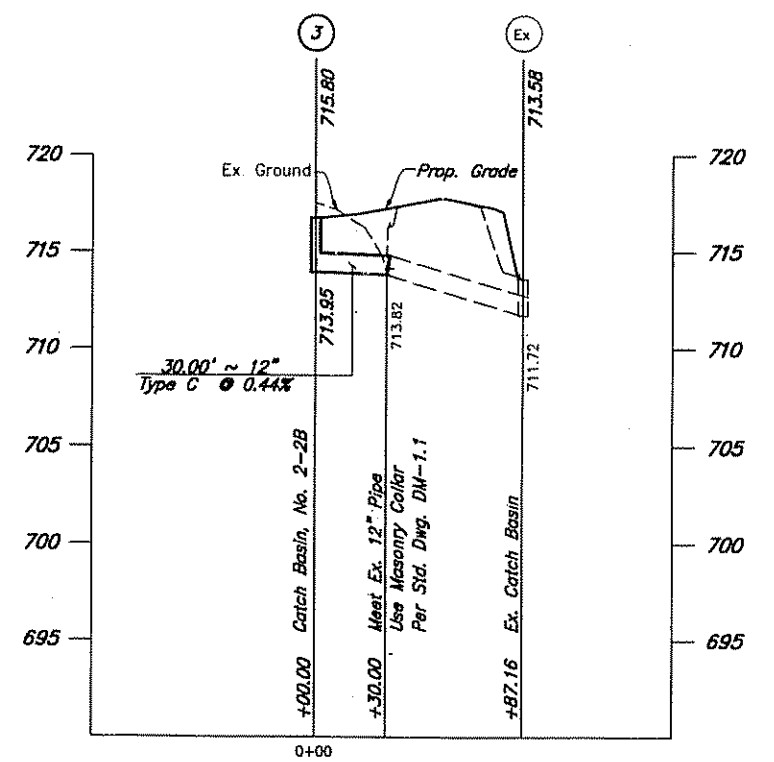
**E/P Data**  
 $\Delta = 105^{\circ}52'27''$   
 $R = 70.00'$   
 $T = 92.68'$   
 $L = 129.35'$   
 $E = 46.15'$

**E/P Data**  
 $\Delta = 75^{\circ}39'46''$   
 $R = 49.00'$   
 $T = 38.05'$   
 $L = 64.71'$   
 $E = 13.04'$



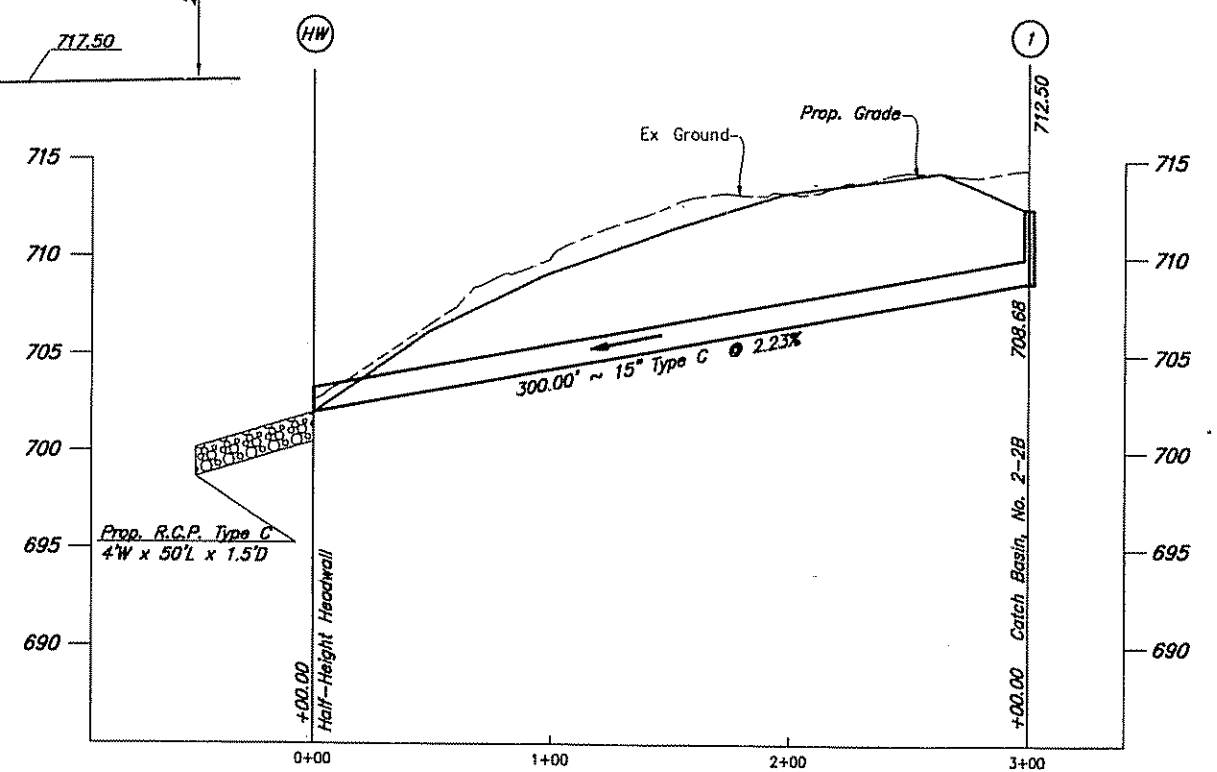
**STORM SEWER PROFILES**

Scale: Horiz. 1"=40'  
 Vert. 1"=5'



**STRINGTOWN RD. / S.R. 104 INTERSECTION DETAIL**

Scale 1"=10'



**NOTES**

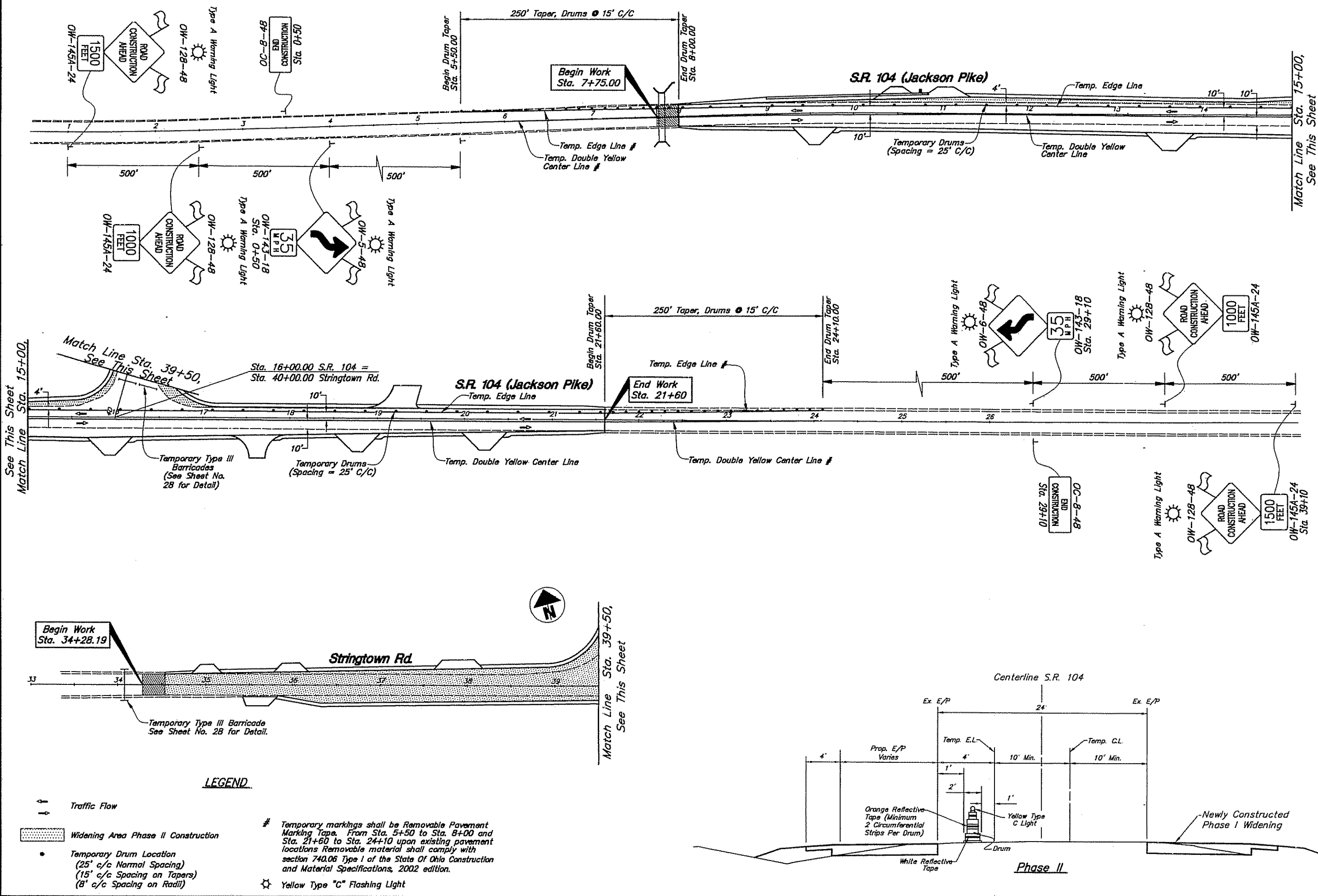
- FOR TYPICAL SECTIONS AND DRIVEWAY DETAILS SEE SHEETS NO. 7
- T.C.: INDICATES TOP OF CURB OR TOP OF CASTING.
- ALL ELEVATIONS ARE PAVEMENT ELEVATIONS UNLESS OTHERWISE NOTED
- G.B.: INDICATES GRADE BREAK
- H.P.: INDICATES HIGH POINT

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






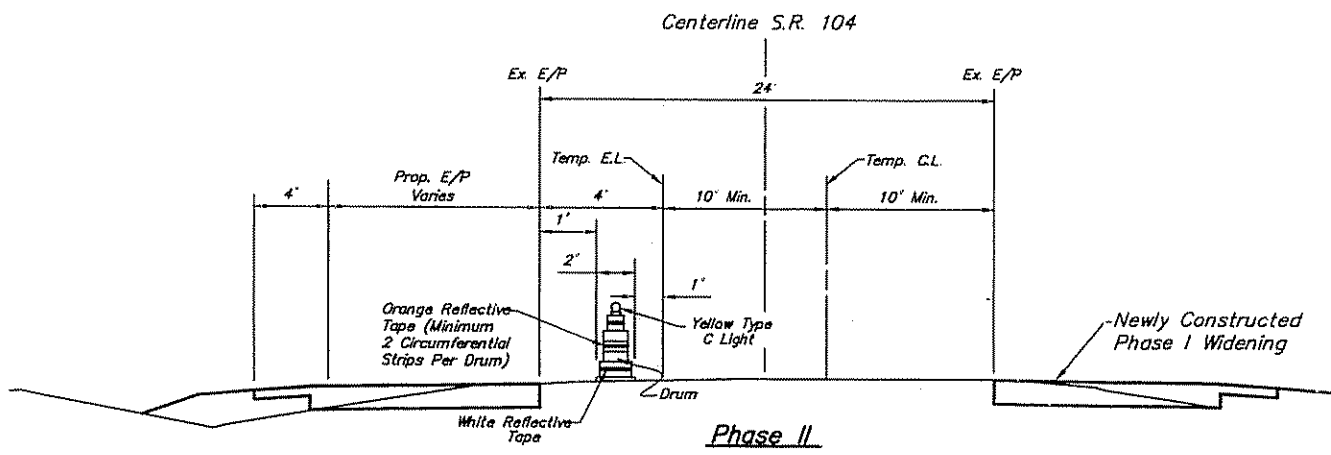






**LEGEND**

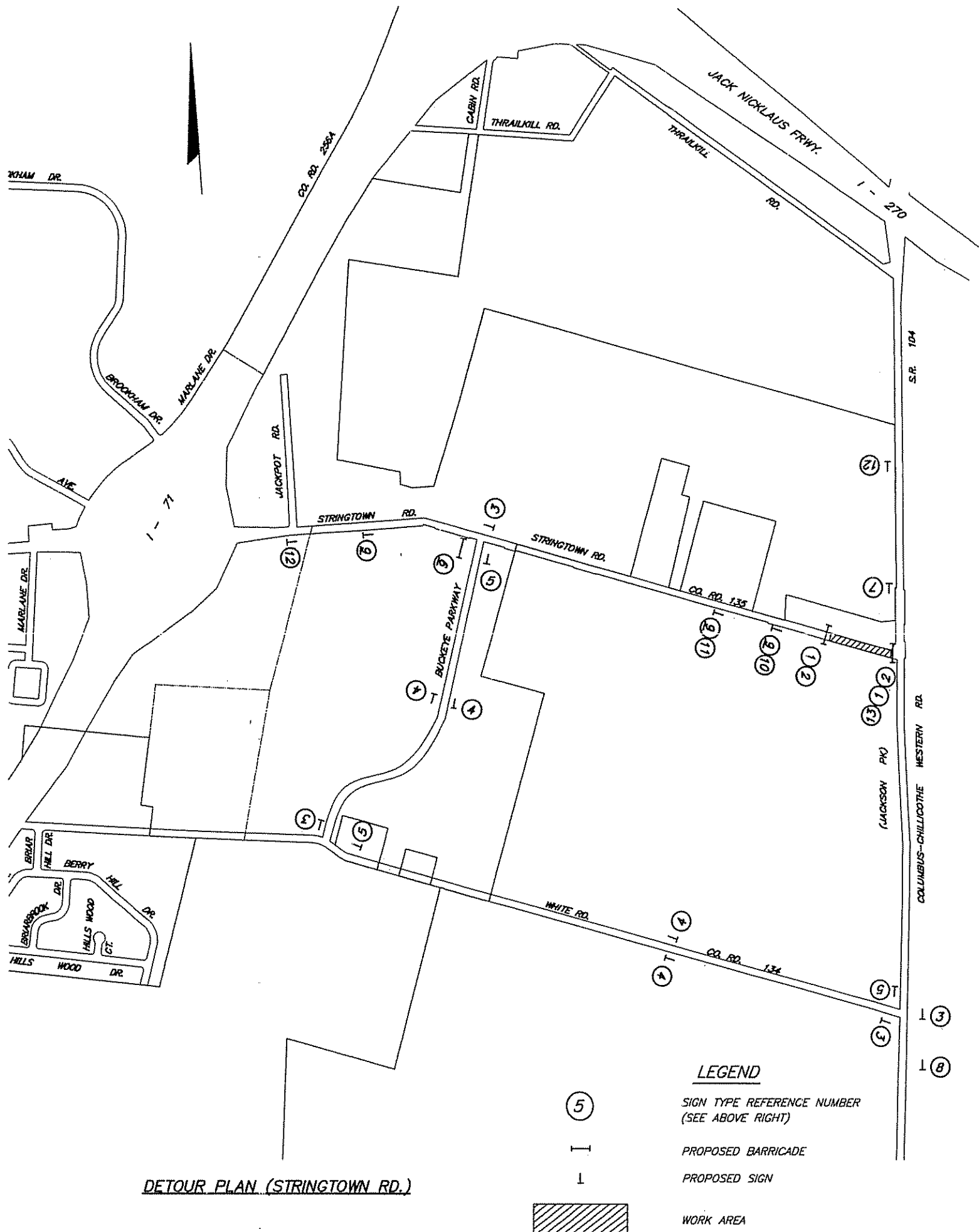
-  Traffic Flow
-  Widening Area Phase II Construction
-  Temporary Drum Location (25' c/c Normal Spacing) (15' c/c Spacing on Tapers) (8' c/c Spacing on Radii)
-  Yellow Type "C" Flashing Light
-  Temporary markings shall be Removable Pavement Marking Tape. From Sta. 5+50 to Sta. 8+00 and Sta. 21+60 to Sta. 24+10 upon existing pavement locations Removable material shall comply with section 740.06 Type I of the State Of Ohio Construction and Material Specifications, 2002 edition.



PROJECT: 20011121 (MEL) 11/24/2001 - 4 SHEETS, XEG XET XEN 31112UC - PLOTTED BY CHUMBERS - APR 24, 2004 - 8:27 AM



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**DETOUR PLAN (STRINGTOWN RD.)**

**LEGEND**

- 5 SIGN TYPE REFERENCE NUMBER (SEE ABOVE RIGHT)
- I PROPOSED BARRICADE
- 1 PROPOSED SIGN
- WORK AREA

**DETAIL "A"**

10' TYPE III BARRICADES

ROAD CLOSED

ROAD CLOSED

ROAD CLOSED

48"X48" BLK/ORG

ROAD CLOSED CONSTRUCTION TRAFFIC ONLY

48"X12" BLK/ORG

DETOUR

OC-29L-30

4

STRINGTOWN RD.

48"X12" BLK/ORG

DETOUR

OC-29-30

5

STRINGTOWN RD.

48"X12" BLK/ORG

DETOUR

OC-29R-30

6

STRINGTOWN RD. CLOSED AT S.R. 104 USE BUCKEYE PARKWAY

48"X60" BLK/ORG

DETOUR

OC-29R-30

7

STRINGTOWN RD. CLOSED AT S.R. 104 USE WHITE ROAD

48"X60" BLK/ORG

DETOUR

OC-29-30

8

STRINGTOWN RD. CLOSED AT S.R. 104 USE WHITE ROAD

48"X60" BLK/ORG

DETOUR

OC-29L-30

9

ROAD CLOSED AHEAD

OW-120-48

36"X36" BLK/ORG

10

500 FEET

OW-145A-24

11

1000 FEET

OW-145A-24

12

DETOUR AHEAD

OW-127-48

13

DETOUR

OC-14L-48

**MAINTENANCE OF TRAFFIC NOTES**

**GENERAL**

Prior to commencement of work, the Contractor shall submit a schedule of operations in accordance with the approved construction sequence in writing to Franklin County for approval. Upon receipt of the approved schedule of operations, the Contractor shall obtain the necessary street closure permit(s) from the City. A copy of the permit(s) shall be retained on the job at all times.

All temporary traffic items shall be installed and approved by Franklin County prior to the closure of Stringtown Rd. and the commencement of construction operations.

All conflicting pavement markings shall be removed and all conflicting signs (both overhead and ground mounted) shall be securely covered or removed during construction.

All adjoining properties and public agencies (police, fire, schools, etc.) shall be notified a minimum of ten (10) working days prior to commencement of this improvement.

The Contractor shall be responsible for all signing, barricades, lights, etc. required for any street closures and/or detours called for in the plans or which may become necessary during the project.

Steady-burning, Type "C" lights shall be required on all barricades, drums, and similar traffic control devices in use at night. Cones are not permitted to be used for night time traffic control.

Flags and yellow Type "A" flashing barricade warning lights shall be used on all advance and other temporary signing as shown in these plans.

All trenches shall be backfilled, securely plated, or protected by temporary fencing or approved barricades at the end of each working day. Clean up shall follow closely behind the trenching operations. A pavement saw shall be used to assure clean, straight joints with existing pavement sections.

All final traffic control items shall be in place for the complete length of the project improvement prior to opening the roadway to traffic.

Payment for all lights, signs, barricades, and all traffic maintenance items (whether or not designated herein) shall be included with the lump sum price bid for Item 614, Maintaining Traffic, as per plan.

**CONSTRUCTION SEQUENCE**

Stringtown Road may be totally closed (except that local traffic shall be maintained at all times) for total width construction. The Contractor shall submit a plan to the Franklin County Engineer for approval on how local traffic is to be maintained during Phase II. Two-way, two-lane traffic shall be maintained at all times on S.R. 104.

Ingress and egress for all drives and parking areas shall be maintained at all times. Areas with multiple drives shall have at least one drive open at all times. Notification shall be given to adjoining properties a minimum of 48 hours in advance of access interruptions. Total denial of ingress and/or egress shall be at the approval of the Engineer. A contingency quantity of 200 cubic yards of Item 410, Traffic Compacted Surface, Type A has been included in the estimated quantities to be used as directed by the Engineer.

**STREET CLOSURE**

Stringtown Road will be totally closed from S.R. 104/Jackson Pike, 500' West of the intersection during Phase II for total width construction. See this sheet for details. Stringtown Road will be closed for a maximum of 30 Days.

**Phase I :**

The Contractor shall construct the roadway widening along the east side of S.R. 104. Traffic shall be maintained on the west side of S.R. 104. Two-Lane, Two-Way traffic shall be maintained at all times on S.R. 104.

**Phase II :**

The Contractor shall construct the roadway along the west side of S.R. 104. Traffic shall be maintained on the east side of S.R. 104. Two-Lane, Two-Way traffic shall be maintained at all times on S.R. 104. Stringtown Road shall be constructed and closed to through traffic. Traffic shall be detoured as shown on this sheet.

If the contractor so elects, he may submit alternate plans for the Maintenance of Traffic, provided the intent of these provisions are followed and no additional inconvenience to the traveling public results therefrom. No alternate plans shall be placed into effect until approval has been granted, in writing, by the engineer.

N  
 0 250 500  
 HORIZONTAL SCALE IN FEET  
 CALCULATED GDT CHECKED RJH  
**MAINTENANCE OF TRAFFIC PLAN**  
**DETOUR PLAN - STRINGTOWN ROAD**  
 S.R. 104 /  
 STRINGTOWN RD.  
 28  
 37

**MAINTENANCE OF TRAFFIC NOTES**

**Item 614—LAW ENFORCEMENT OFFICER (WITH PATROL CAR)**

In addition to the requirements of 614 and the latest edition of The Ohio Manual Of Uniform Traffic Control Devices (OMUTCD), a uniformed Law Enforcement Officer (and official patrol car with working top mounted emergency flashing lights) shall be provided for controlling traffic for the following tasks:

—For lane closures. During initial set-up periods, tear down periods, substantial shifts of a closure point or when new lane closure arrangements are initiated.

—During the entire advance preparation and closure sequence where complete blockage of traffic is required.

Law Enforcement Officers (L.E.O.'s) should not be used where the OMUTCD intends that flaggers be used. The LEO's are considered to be employed by the Contractor and the Contractor shall be responsible for their actions. Although they are employed by the Contractor, the project Engineer shall have control over their placement. The official patrol car shall be a Public Safety Vehicle as required by the Ohio revised code.

Law Enforcement Officers (with patrol car) required by the traffic maintenance tasks above shall be paid for on a unit price (hourly) basis. The following estimated quantities have been carried to the General Summary:

Item 614, Law Enforcement Officer With Patrol Car 100 Hours

These hours paid shall include minimum show-up time required by the Law Enforcement Agency involved.

If the Contractor wishes to utilize LEO's for flagging and Traffic Control other than for that required in these plans, he may do so at his own expense. Payment for the excess above contract requirements will be included under Item 614 Maintaining Traffic

**TRAFFIC MAINTENANCE**

All traffic control devices shall be furnished, erected, maintained and removed by the Contractor in accordance with the Ohio Manual of Uniform Traffic Control Devices for Construction and Maintenance Operations (current edition), copies of which are available from the Ohio Department of Transportation, Bureau of Traffic, 1980 West Broad Street, Columbus, Ohio 43223.

In addition to the requirements for maintaining traffic as indicated in the Ohio Manual of Uniform Traffic Control Devices for Streets and Highways (current edition), a Maintenance of Traffic Plan has been provided for this improvement and is included as a part of this plan Reference Sheet No 26-2B for additional details and notes

Payment for all traffic maintenance items shall be included with the lump sum Item 614, Maintaining Traffic, as per plan

**MAINTENANCE OF TRAFFIC NOTES - FRANKLIN COUNTY ENGINEER**

1) The Contractor shall notify the County Engineer's Traffic Department at 462-5318 two (2) weeks prior to street closure and beginning work and weekly thereafter to discuss any changes to the Maintenance of Traffic Plan and/or Completion Date. Before work is started on this project, the Contractor shall submit a written Schedule of Operation and a Traffic Maintenance Control Plan for approval. No work shall be started that will restrict any lane usage unless it is the intent of the Contractor to work full time with a full force in order to complete the work with no unnecessary delays.

2) All Construction Signs, Barricades, Vertical Panels and Drums shall conform to OMUTCD and the latest revision of ODOT Construction and Material Specification

3) All Construction Signage shall be installed and covered before construction shall begin. After Construction Sign Installation, the Contractor shall notify the Franklin County Traffic Engineer at 462-5318 three (3) working days before work begins and request an inspection of all signage

4) Faces of Construction Signs and Reflective Sheeting on Barricades shall be Type H (VIP). All Orange Construction Signs shall be Fluorescent Orange. All Sheeting will be tested for Reflectivity per ODOT 730.192. Vertical Panels and Drum Bands shall be Reflectorized with Type G (High Intensity) Sheeting complying with the requirements of 730.19. All Signs and Barricades, Vertical Panels, and Drums will be like new and in good condition in conformance with "Quality Standards for Work Zone Traffic Control Devices" published by ATSSA.

5) Maintenance of all Contractor supplied Signs, Barricades, Vertical Panels and Drums is the Contractor's responsibility. If the Contractor fails to correct deficiencies within four (4) hours of notification, Franklin County shall correct or hire someone to correct the deficiencies. The Contractor shall then be back charged per ODOT Specification 614.04. In the case that back charging the Contractor is not applicable, the County will rescind and withhold all permits issued to the Contractor to work within county right-of-way until the issue is settled.

6) These provisions shall not in any way relieve the Contractor of any of his legal responsibilities or liabilities for the safety of the public.

7) All Barricades at Closures shall have Yellow Type C steady burn lights. All Barrels shall have Yellow Type C steady burn lights. All Signs nine (9) sq. ft. (36" x 36") and over shall have Yellow Type A low intensity flashing warning lights and three (3) flags

8) Drums shall be placed as follows. 40' C/C on tangents, 25' C/C on tapers and 10' C/C in radii.

9) Full road closures shall conform to MT-101.60 with Type C warning lights in lieu of Type B lights. If full closure is not practical, enough Type III Barricades shall be provided to close all lanes as directed by the Engineer.

**COORDINATION WITH THE COLUMBUS PAVING THE WAY PROGRAM (PTWP)**

The Contractor shall notify the project Engineer in writing of all traffic restrictions and upcoming maintenance of traffic changes on a weekly basis. When detours are planned, the notification shall be at the preconstruction meeting or 30 days in advance once construction has begun. Lane and ramp closures of less than two (2) weeks duration and more than two (2) days shall be reported at least three (3) working days in advance. For short-term lane or ramp closures (two days or less) notification shall be made at least one day in advance

Information shall include, but not be limited to, all construction activities that will impact traffic at present and in the next thirty (30) days. The report shall be of a format approved by the Project Engineer or one supplied by PTWP. The Contractor shall designate an individual who will be responsible to prepare this report at the preconstruction meeting.

Any unforeseen impact to traffic shall be reported to the Project Engineer as soon as possible.

The Project Engineer shall provide this information to the PTWP Program. All construction activities that interfere with traffic shall be reported to the PTWP. This information shall be provided by the Program Coordinator at (614) 645-3970, or by fax at (614) 645-5844.

The Contractor may in lieu of this method of operation, submit in writing, his own method of operation to the Engineer for review and approval. However, the Contractor shall provide at the preconstruction conference a set of reproducible prints (scale 1"=40' or 1"=20') showing how he plans to maintain traffic in accordance with the OMUTCD and these traffic maintenance notes. This plan shall show legend and location of signs, location of drums or barricades, safety flags, flashers or whatever control devices are required. These plans will have to be reviewed and approved by the Franklin County Engineer, the Contractor will be advised as to the review results in writing within thirty (30) days.

**CONFLICTING MARKINGS**

The Contractor shall, prior to placing temporary markings, remove all existing conflicting markings visible to the traveling public during daylight or night time hours in accordance with 641.10. The cost for removal of conflicting markings shall be incidental to the various pay items.

**EXISTING TRAFFIC SIGN MAINTENANCE**

Special care shall be taken to maintain existing street name signs and stop signs. If necessary, the Contractor shall relocate these signs out of the way of construction, but in conformance with OMUTCD

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CALCULATED  
GDT  
CHECKED  
RUH

MAINTENANCE OF TRAFFIC PLAN  
GENERAL NOTES

S.R. 104 /  
STRINGTOWN RD.

FRANKLIN COUNTY, OHIO  
OFFICE OF THE COUNTY ENGINEER

S.R. 104 / STRINGTOWN ROAD  
ESTABLISHING, ALTERING  
AND WIDENING  
CITY OF GROVE CITY  
JACKSON TOWNSHIP  
RIGHT-OF-WAY

This Project consists of widening and resurfacing the existing pavement to provide for left turn lanes on Northbound S.R. 104 and Eastbound Stringtown Road. The project length is about 0.26 miles of 2 or 3 lanes.

This Project will include utility relocation, storm sewer, and traffic control.

2002 SPECIFICATIONS

The current State of Ohio "Construction and Material Specifications" together with the requirements of Franklin County and Jackson Township, including all supplements thereto shall govern all materials and workmanship involved in this improvement.

I hereby approve these plans and declare that the construction of this improvement will require the closing to traffic of the street and that detours will be provided as indicated on the plans.

APPROVALS:

Signatures below signify only concurrence with the general purposes and general locations of the project. All technical details remain the responsibility of the design engineer.

FRANKLIN COUNTY:

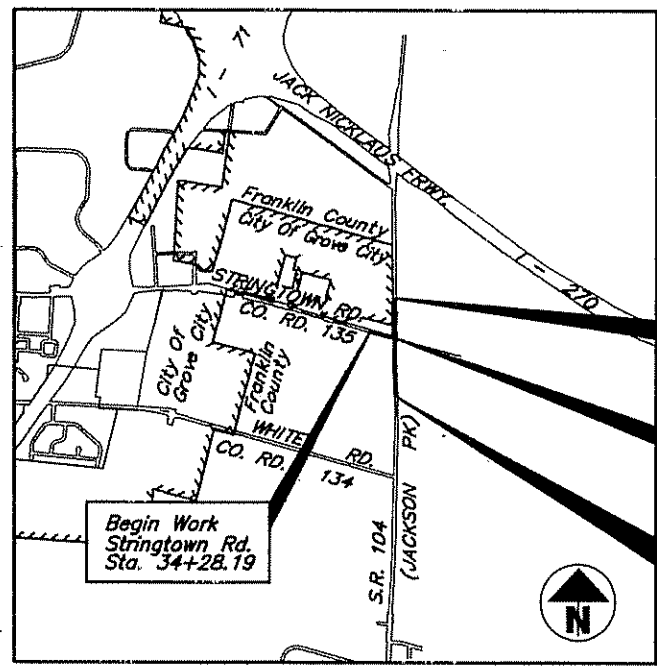
	4-5-04
Franklin County Chief Deputy Engineer	Date
	4-05-04
Franklin County Engineer	Date

We, The Commissioners of Franklin County, hereby approve these plans and certify that the right-of-way within Franklin County as shown on the plans is available for the construction, maintenance and repair of the highway.

	4-13-04
	Date
	4/13/04
	Date
Board of County Commissioners	Date

JACKSON TOWNSHIP:

Roadway Superintendent	Date
BOARD OF TRUSTEES	
Trustee	Date
Trustee	Date
Trustee	Date



LOCATION MAP

Scale: 1" = 2000'  
Latitude: 39° 52' 33" N  
Longitude: 83° 01' 40" W

Bearings for this plan are based on the Ohio State Plane Coordinate System as per NAD83, South Zone.

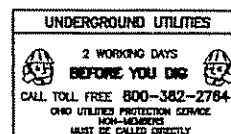
Portion To Be Improved	
State and Federal Routes	
Other Roads	
Corp. Line	

CONVENTIONAL SIGNS

Corporation Line	
Fence Line	
Centerline	
Right of Way (only)	
Existing Right of Way	
Property Line	
Guardrail (existing)	
Ditch (existing)	
Work Limits	
Telephone	
Gas	
Water	
Storm	
Tree (To Be Removed)	
Utility Poles: Telephone T, Power P, Light L	
Anchor	
Fire Hydrant	
Water Valve	
Telephone Pedestal	
Signal Box	
Catch Basin	
Flagpole	
Sign	
Prop. Gravel Drive	
Prop. Asphalt Drive	

INDEX OF SHEETS

Title Sheet	1
Centerline Survey Plat	2
Right-Of-Way Plans (S.R. 104)	3-6
Right-Of-Way Plans (Stringtown Rd.)	7-8



Plans Prepared By  
EVANS, MECHWART, HAMBLETON & TILTON, INC.  
170 Mill Street Gahanna, Ohio 43230

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FEDERAL PROJECT NO. NONE  
CONSTRUCTION PROJECT NO.  
RAILROAD INVOLVEMENT NONE  
S.R. 104 / STRINGTOWN RD.  
1 / 8  
30 XX  
20031112



**CENTERLINE SURVEY PLAT**  
 SURVEY NO. 469 OF THE VIRGINIA MILITARY DISTRICT  
 JACKSON TOWNSHIP,  
 FRANKLIN COUNTY, OHIO

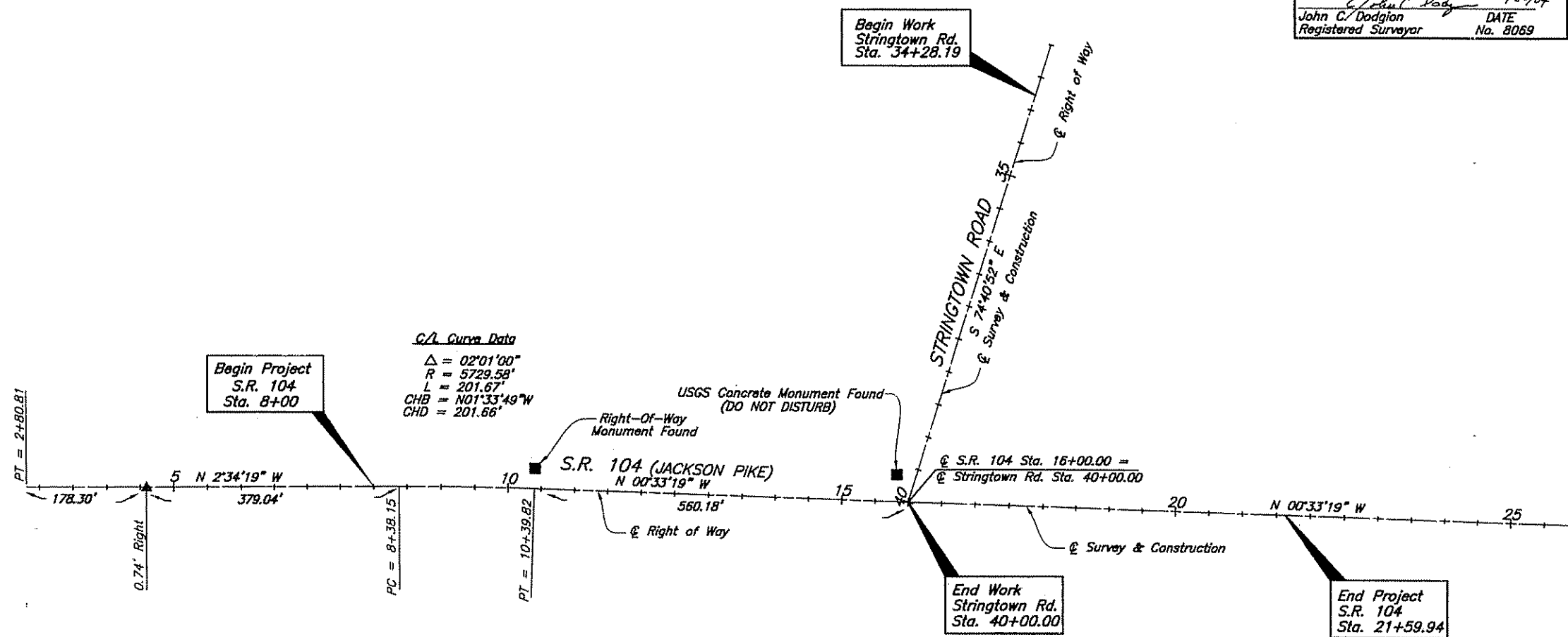
**BASIS OF BEARINGS:**

Bearings are based on the Ohio State Plane Coordinate System as per NAD83, South Zone.

- = MONUMENT FOUND
- = CENTERLINE MONUMENT SET
- ▲ = R.R. SPK. FND.
- △ = R.R. SPK. SET
- = I.P. FND.
- = I.P. SET
- = MAG NAIL SET

I hereby certify that this plat is a true delineation of a survey made by Evans, Mechwart, Hamleton & Tilton Inc. (EMH&T) in September, 2003 and January 2004.

*John C. Dodgion* 04/23/04  
 John C. Dodgion DATE  
 Registered Surveyor No. 8069



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CENTERLINE SURVEY PLAT

S.R. 104 / STRINGTOWN RD.

2 / 8

31 / 37



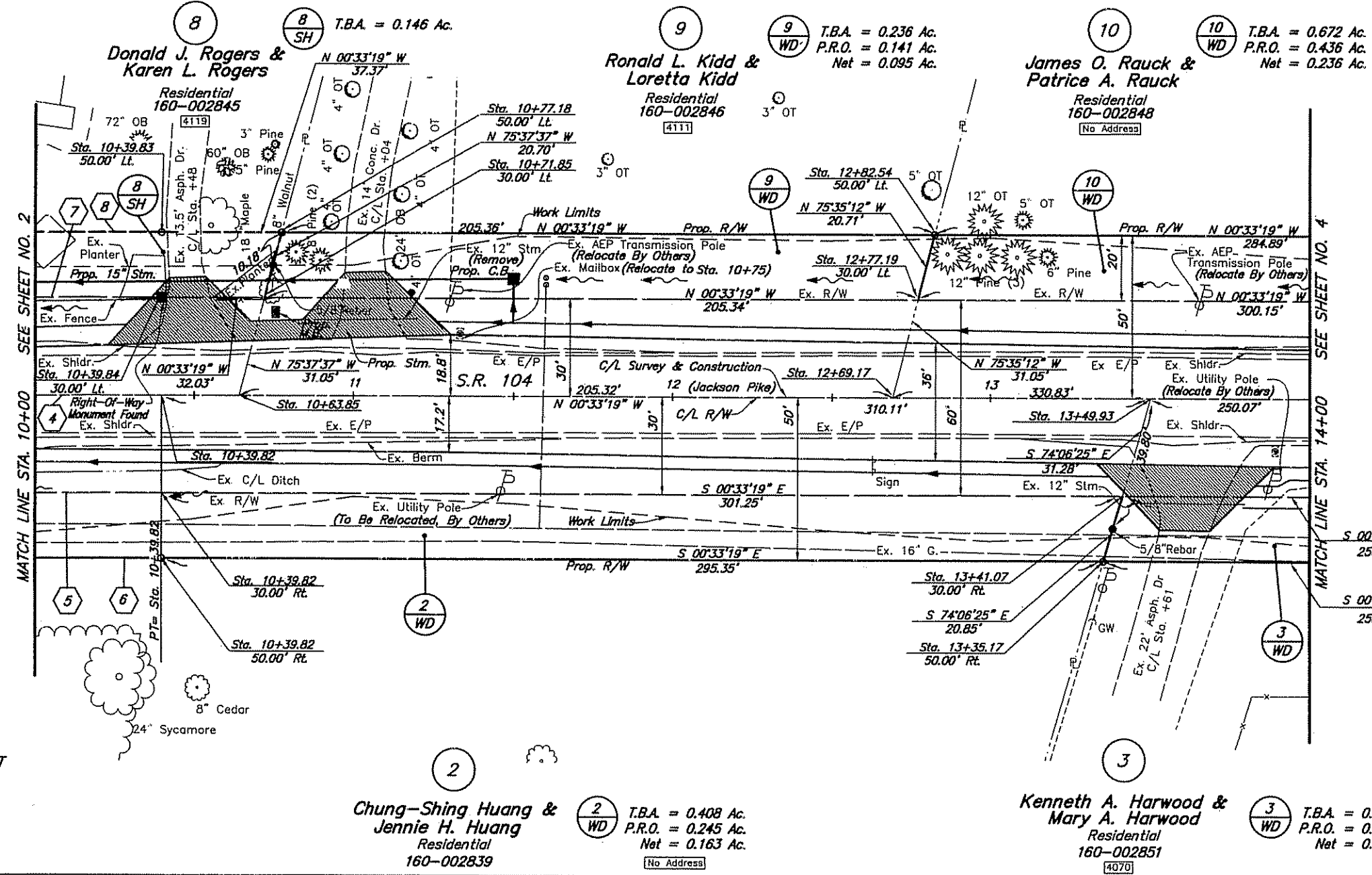


VMS 469  
Jackson Township  
Franklin County, Ohio

- 4 Δ=00°27'54"  
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L=46.50'  
ChB=N00°47'16"W  
ChD=46.50'
- 5 Δ=00°32'35"  
R=5699.58'  
L=54.03'  
ChB=S00°49'37"E  
ChD=54.03'
- 6 Δ=00°35'44"  
R=5679.58'  
L=59.05'  
ChB=S00°51'11"E  
ChD=59.05'
- 7 Δ=02°01'00"  
R=5759.58'  
L=202.72'  
ChB=N01°33'49"W  
ChD=202.71'
- 8 Δ=02°01'00"  
R=5779.58'  
L=203.43'  
ChB=N01°33'49"W  
ChD=203.42'

Ex. C/L R/W Total Curve Data  
 Δ = 02°01'00"  
 R = 5729.58'  
 L = 201.67'  
 ChB = N01°33'49"W  
 ChD = 201.66'

- = MONUMENT FOUND
- = CENTERLINE MONUMENT SET
- ▲ = R.R. SPK. FND.
- △ = R.R. SPK. SET
- = I.P. FND.
- = I.P. SET
- = MAG NAIL SET



**SUMMARY OF ADDITIONAL RIGHT OF WAY**

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA (AC.)	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED	
			BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
2WD	Chung-Shing Huang & Jennie H. Huang	2,3	O.R.	14317B13	160-002839	7.050	0.245	0.408	0.245	0.163	No		6.642				
BSH	Donald J. Rogers & Karen L. Rogers	3,4	I.N.	200201230020391	160-002845	3.94	0.000	0.146	0.000	0.146	No		3.94				
9WD	Ronald L. Kidd & Loretta Kidd	2	O.R.	33562J01	160-002846	2.00	0.141	0.236	0.141	0.095	No		1.764				
10WD	James O. Rauck & Patrice A. Rauck	3,4,6,7	I.N.	200209200235283	160-002848	2.74	0.436	0.672	0.436	0.236	No		2.068				

\* CALCULATED

REV.	DATE	DESCRIPTION

RIGHT-OF-WAY - S.R. 104  
STA. 10+00 TO STA. 14+00

S.R. 104 /  
STRINGTOWN RD.

4 / 8

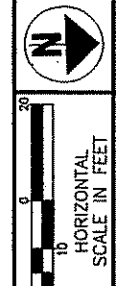
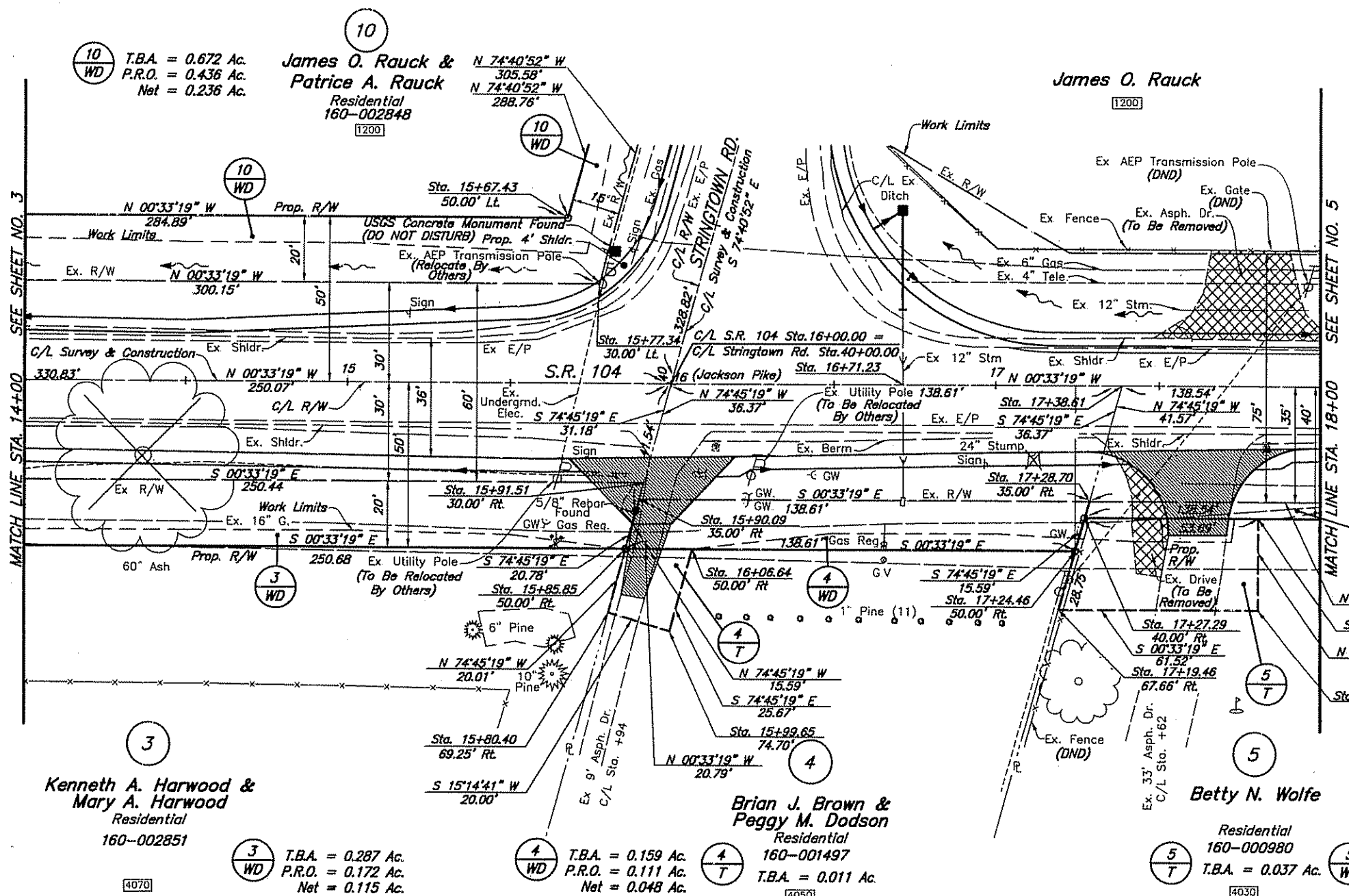
33  
37

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31112R913, 31112R914, 31112R915, 31112R916, 31112R917,



VMS 469  
Jackson Township  
Franklin County, Ohio

- = MONUMENT FOUND
- = CENTERLINE MONUMENT SET
- ▲ = R.R. SPK. FND.
- △ = R.R. SPK. SET
- = I.P. FND.
- = I.P. SET
- = MAG NAIL SET



RIGHT-OF-WAY - S.R. 104  
STA. 14+00 TO STA. 18+00

S.R. 104 /  
STRINGTOWN RD.

5 / 8

34  
37

Grantee: All Right Of Way Acquired In The Name  
Of Franklin County Unless Otherwise Shown.

SUMMARY OF ADDITIONAL RIGHT OF WAY

PARCEL NO.	OWNER	SHEET NO.	OWNERS RECORD		AUDITOR'S PARCEL	RECORD AREA (AC.)	TOTAL P.R.O.	GROSS TAKE	P.R.O. IN TAKE	NET TAKE	STRUC-TURE	NET RESIDUE		TYPE FUND	REMARKS AND PERSONALTY	AS ACQUIRED	
			BOOK	PAGE								LEFT	RIGHT			BOOK	PAGE
3WD	Kenneth A. Harwood & Mary A. Harwood	3,4	I.N.199805200123254		160-002851	7.25	0.172	0.287	0.172	0.115	No		6.963				
4WD 4T	Brian J. Brown & Peggy M. Dodson	4	I.N.200305200150156		160-001497	4.66	0.111	0.159 0.011	0.111	0.048 0.011	No		4.501				
5WD 5T	Betty N. Wolfe	4,5	O.R. 25288H19		160-000980	4.90	0.111	0.127 0.037	0.111	0.016 0.037	No		4.773				

\* CALCULATED

REV.	DATE	DESCRIPTION

C:\PROJECT\3003112\DWG\3111260C.DWG - 9 AREFS: XZG XZV XZU 3111260C 3111260C 3111260C - PLOTTED BY CHUMPHREYS - APR 24, 2004 - 8:49 AM







