



WATER-RIGHT DOCKET

Natchez Trace Parkway

Docket No: 8

VISITOR CONTACT STATION, COLBERT PARK

Supporting Hydro Data

03-22-1966: letter to regional director, southeast region from hydraulic engineer regarding the results of a ground-water study made



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Division
P.O. Box V
University, Alabama 35486

IN REPLY REFER TO:

SOUTHEAST REGION	
MAR 25 '66	
Regional Director	☒
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March 22, 1966

Mr. Elbert Cox, Regional Director
Southeast Region
National Park Service
P. O. Box 10008
Richmond, Virginia 23240

Dear Mr. Cox:

This letter summarizes the results of a ground-water study made by the U.S. Geological Survey in the Alabama section of Natchez Trace Parkway in Colbert County, as an aid in locating a water supply adequate for the needs of the proposed park development at the Colbert Ferry and Cherokee Residential and Maintenance areas. The planned water requirements are 25 gpm (gallons per minute) at Cherokee and 75 gpm at Colbert Ferry.

The results of the ground-water study indicate that water of satisfactory chemical quality and quantity is available in the Cherokee area at the site of test well 3 and in the Colbert Ferry area at the site of test wells 5 and 6. The sites of the test wells in the Cherokee and Colbert Ferry areas are shown on the enclosed map.

The Cherokee and Colbert Ferry areas are underlain by the Tuscumbia Limestone and the Fort Payne Chert of Mississippian age. The Tuscumbia Limestone is a light-gray to gray, medium-bedded, hard, dense finely crystalline limestone. It contains light-gray to black chert as nodules and thick bands. It is very fossiliferous; fragments of crinoid stem plates, coral bryozoa, and brachiopods are common at many exposures. The thickness of the Tuscumbia Limestone in the areas of study ranges from 30 feet in test well 6 to 175 feet in test well 1. The Fort Payne Chert is a light-gray to white crystalline hard limestone, which contains large quantities of light-gray to black chert that occurs as thick bands and as nodules disseminated through the limestone. In places it is mottled with dark-green zones composed of glauconite. The thickness of the Fort Payne Chert in the areas of planned development is estimated to be 200 feet. Test drilling did not penetrate the entire thickness of the Fort Payne at either of the two areas.

The Tuscumbia Limestone and the Fort Payne Chert are productive aquifers in Colbert County. Ground water in these formations occurs in solution openings along fractures and bedding planes. A successful well must

penetrate a sufficient number of openings to provide the desired quantity of water. The water-bearing openings in the limestone and chert are generally most numerous and most productive at depths less than 250 feet below land surface.

Water of suitable quality and of sufficient quantity at the Cherokee area can be obtained from a well at the site of test well 3. Test well 3 was drilled to a depth of 208 feet and water-bearing openings were penetrated, which yielded an estimated 15 gpm at 50 to 61 feet and 45 gpm at 186 feet. During a 12-hour pumping test on this well on Aug. 3 and 4, 1965, the drawdown in water level was 14 feet in response to pumping 57 gpm. Hence, the specific capacity was 4 gpm per foot of drawdown. If the well is pumped at the planned rate of 25 gpm, the drawdown will be about 6 feet. The water table at the site of test well 3 is expected to fluctuate seasonally between 15 and 50 feet below land surface. The results of the aquifer test indicate that test well 3 could be pumped at 140 gpm with a drawdown in water level of about 35 feet. This would necessitate a pump setting of about 90 feet.

Two water samples were collected during the pumping test for chemical analysis. The results of these chemical analyses, made by the U.S. Geological Survey laboratory in Baton Rouge, La. and reported in parts per million are given on the attached page.

The results of the analyses indicate that the water is very hard and slightly high in iron content. The iron content is an unusual occurrence in water from limestone aquifers in this area and may decrease with pumping.

Water of suitable quality and of sufficient quantity at the Colbert Ferry area can be obtained from wells at the sites of test wells 5 and 6.

Test well 5 was drilled to a depth of 202 feet and penetrated a water-bearing opening at a depth of 159 feet which yielded an estimated 50 gpm. During a 12-hour pumping test on Aug. 4, 1965, the drawdown in water level was 20 feet, in response to pumping 107 gpm. This indicated a specific capacity of about 5 gpm per foot of drawdown. If the well is pumped at the planned rate of 75 gpm, the drawdown in water level will be about 14 feet. The water table at the site of test well 5 is expected to fluctuate seasonally between 50 and 85 feet below land surface. The results of the aquifer test indicate that test well 5 could be pumped at 150 gpm with a drawdown in water level of about 28 feet. This would necessitate a pump setting of about 120 feet.

Test well 6 was drilled to a depth of 151 feet. A pumping test was run on this well on Aug. 20, 1965. During the 12-hour test the drawdown in water level was about 40 feet in response to pumping 43 gpm. The specific capacity was about 1 gpm per foot of drawdown. The water table at the site of test well 6 is expected to fluctuate between 70 and 95 feet below

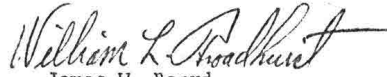
land surface. Data obtained from the pumping test indicate that the well should not be pumped in excess of 30 gpm. The drawdown in water level at 30 gpm would be about 30 feet. Necessary pump setting would be about 130 feet.

Two water samples were collected during the pumping test run on wells 5 and 6 for chemical analysis. The results of these analyses are given on the attached page.

If any of the basic data that were collected during the investigation should be needed, please do not hesitate to advise.

Sincerely yours,

For the District Chief
William L. Broadhurst


James W. Board
Hydraulic Engineer

Attachments

TEST WELL 5

*Colbert F. M.*Natchez Trace Parkway, Colbert County, AlabamaChemical Analysis
(parts per million)

	<u>Sample collected after 35 minutes of pumping</u>	<u>Sample collected after 12 hours of pumping</u>
Silica (SiO ₂)	7.7	7.8
Iron (Fe)	.30	.02
Calcium (Ca)	49	44
Magnesium (Mg)	5.5	8.3
Sodium (Na)	.9	.9
Potassium (K)	.4	.5
Bicarbonate (HCO ₃)	172	172
Carbonate (CO ₃)	0	0
Sulfate (SO ₄)	0	0
Chloride (Cl)	2.0	2.2
Fluoride (F)	0	0
Nitrate (NO ₃)	1.4	1.8
Dissolved solids	155	160
Hardness, as CaCO ₃	145	144
Noncarbonate hardness	4	3
Specific conductance (micromhos at 25°C)	278	281
pH	6.6	6.4
Color	5	0
Temperature (°F)	62	62

Other Supporting Information

Form 10-174
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Natchez Trace Parkway	Region Southeast	Work Order No. 225054
Location in Park Colbert Park, Section 2-C	State(s) Alabama	Fund Symbol 14X1037
☒ Contract and/or ☐ Day Labor	County or Counties Colbert	Year Programmed 1962, 1963, 1964
		PCB No. <i>B-166, U-94</i> Master Plan No.
Work Order Title 2-C, Comfort Stations (3) and Utilities, Colbert Ferry Area, B-166 (Por) and U-94 (Por)		Master Plan Corrected By
		As Built Drawings By
		Date Started June 1968
		Date Completed November 1968 <i>JES</i>
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)		TOTAL COSTS (For completion by FFO)

220 1 Visitor-Contact Station (Portion), Building No. 276	\$10,169.65
224 1 Flag Pole	576.00
230 Water System	5,488.24
230 Sewer System	3,254.80
230 Electric System	2,397.20
240 Grounds and Other Improvements	603.00

Total	\$22,488.89
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RECAP

220 General Buildings	10,169.65
224 General Structures	576.00
230 Utility Systems	11,140.24
240 Grounds & Other Improvements	603.00

26,087.11

~~27,661.33~~

26,087.11

TOTAL

\$

~~27,661.33~~

DISTRIBUTION		THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES	
No.	To	Submitted By: <i>Bobby S. Matthews</i>	Title: Civil Engineer
1	WASO	Approved By: <i>Bobby S. Matthews</i>	Title: Acting Superintendent
1	PSC	Approved By: <i>Gilbert W. Calhoun</i>	Title: Regional Accountant
2	SE REG		
1	NTP FILE		
COSTS VERIFIED		BY: <i>T. J. Baer</i>	Date: JUN 20 1969

11369

Form 10-174A
(June 1962)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

604

Work Order Number
225054

COMPOSITION OF COST FOR COMPLETION REPORT

Fund Symbol
14X1037

Park Natchez Trace Parkway	Region SE	Year Programmed 1962, 1963
Location in Park Section 2-C, Colbert County, Ala.		
Work Order Title 2-C, Comfort Stations (3) and Utilities, Colbert Ferry Area, B-166 (por) and U-94 (por)		

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE		
(1) Personal Services.....	\$	
(2) Travel.....		
(3) Contract Work	22,488.89	
(4) Supplies and Materials.....		
(5) Other Direct Expenses.....		
(6) Operation of Equipment.....		
(7) Depreciation of Equipment.....		
(8) Purchase of Construction Equipment.....		
(9) Purchase of Other Accountable Equipment		
(10) Other Costs:		
(11) TOTAL COST CHARGED TO FFO FUNDS	xxxxxxxxxx	\$ 22,488.89
OTHER COSTS:		
(12) PS&S, AP, and/or Facilitating Services @ 16 %.....	\$ 3,598.22	
(13) Inventory and Other Non-Fund Costs		3,598.22
(14) GROSS WORK ORDER COSTS	xxxxxxxxxx	\$ 26,087.11
LESS:		
(15) Residual Value of Construction Equipment on Line 8	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS	xxxxxxxxxx	\$ 26,087.11

Identify other costs and other credits by line item entry, on an attached schedule, or explain in narrative.

CONSTRUCTION PROJECT
COMPLETION REPORT
ASSET DESCRIPTION DATA SHEET

PARK Natchez Trace Parkway CONTRACT NO. 14-10-7-981-68

ROADS & PARKWAYS

Primary ☒ Secondary ☐
 Type Surface _____ Length _____ Width _____
 Route Number _____ Origin _____ Terminus _____
 Cost _____

TRAILS

Surface _____ Length _____ Width _____
 Name or Number _____
 Cost _____

BUILDINGS

220 Type Building Visitor Contact Station Building Number 276
Visitor Center, Utility, etc.
 Construction Materials concrete floor, brick wall, and built-up roof Concrete footing, reinforced
 No. of Rooms 5 and 1 bath Sq. Ft. 1268 Heating Heat Pump (central)
 Type Air Cond. Heat Pump (central) Other Uses Rest Rooms and Exhibits
Rest Room, Museum
 Cost \$10,169.65

STRUCTURES

224 Kind of Structure Flagpole
Flagpole, Overlook
 Detailed Description _____

 Cost \$576.00

UTILITIES

230 WATER SYSTEM

Detailed Description of System & Components Utility building, one drinking
fountain, 575 ft. 6" C.I. water main, two 1 1/4" gatevalve and box, two 2"
gatevalve and box, 108 ft. 1 1/4" G.S. pipe, and 53 ft. 2" G.S. pipe.
 Cost \$5,488.24

COMPLETION REPORT
ASSET DESCRIPTION DATA SHEET
NATCHEZ TRACE PARKWAY

UTILITIESSEWER SYSTEM

230 Detailed Description of System & Components one 6,600 gallon septic tank,
54 ft. 6" C.I. sewer line, and 1260 L.F. trench tile

Cost \$3,254.80

ELECTRIC SYSTEM

230 Detailed Description of System & Components Electrical work including
238 ft. #3/0 cable type USE and 450 ft. 2 #10 cable, type UF with ground wire

Cost \$2,397.20

TELEPHONE SYSTEM

Detailed Description of System & Components _____

Cost _____

SANITATION SYSTEM

Detailed Description of System & Components _____

Cost _____

GROUNDS & OTHER IMPROVEMENTS

240 GROUNDS GENERAL OTHER FACILITIES

Five (5) walklights

No. Acres, Planting, Seeding, Sodding, Grading, Clearing trees, etc.

Cost \$603.00

NARRATIVE TO ACCOMPANY PROJECT COMPLETION REPORT
VISITOR CONTACT FACILITY, COLBERT PARK DEVELOPMENT
SECTION 2-C, NATCHEZ TRACE PARKWAY, COLBERT COUNTY, ALABAMA
WORK ORDER: NO. 225054

General:

This contract work consisted of the construction of a contact station, sewerage system, and water system including pump house and controls.

After receiving plans and specifications from the Philadelphia Service Center, the Natchez Trace Parkway issued invitations for bids on April 24, 1968. Three bids were received and the bid opening was held on May 16, 1968. Bigbee Construction Company of Tuscumbia, Alabama, low bidder, was awarded Prime Contract No. 14-10-7-981-68 on May 29, 1968, in the amount of \$48,564.10.

A preconstruction conference was held on June 11, 1968, at 10 a.m. at the Cherokee Maintenance Area, Cherokee, Alabama. Those attending and their respective organizations were:

Bigbee Construction Co. Inc.

Mr. J. H. Bigbee, President
Mr. Joe Pullen, Construction Supt., Bigbee Construction Co.
Mr. G. M. Daniel, Owner, Highland Park Electric Co.
Mr. B. J. Province, Partner, Bobco Sheet Metal and Roofing Co.
Mr. Anthony Pugliese, Plumber, Bobco Sheet Metal and Roofing Co.
Mr. Charles L. Dawson, Masonry Contractor

Natchez Trace Parkway

Mr. Keith E. Miller, Assistant Superintendent
Mr. Milton J. Orcutt, Project Supervisor W.S.C.
Mr. Bobby Matthews, Civil Engineer
Mr. Marcelle Mann, C&M Representative
Mr. G. B. Sutphin, Maintenance Foreman III
Mr. Marlo G. Acock, Supervisory Ranger

Notice to proceed was signed by Mr. J. H. Bigbee, President, Bigbee Construction Company, on June 12, 1968.

Notice of beginning date was issued by Mr. Lawrence B. Coryell, Chief, Contract Administration and Construction Contracting Officer, on June 17, 1968, establishing June 13, 1968, as the first calendar day of the contract period which will expire October 10, 1968. The actual beginning date was June 20, 1968.

Change Order #1 issued by Contracting Officer on October 4, 1968, changed the completion date from October 10, 1968, to November 9, 1968 thereby giving the contractor an extension of 30 days.

A final inspection was made on November 15, 1968, and the job was considered essentially complete as of November 9, 1968, with the exception of the flagpole, fire hose cabinet and chromolox heating units and control wiring which the contractor had difficulty obtaining.

Subcontractors for Contract No. 14-10-7-981-68 were as follows:

- | | |
|---|--|
| 1. Electrical | Highland Park Electric Co.
Muscle Shoals, Alabama |
| 2. Plumbing, heating, and
cooling, roofing | Bobco Sheet Metal and Roofing
Co., Tuscumbia, Alabama |
| 3. Plaster | J. T. Lewis
Florence, Alabama |
| 4. Masonry | Charles T. Dawson Masonry Co.
Town Creek, Alabama |
| 5. Glass | City Glass Co.
Tupelo, Mississippi |
| 6. Painters | Wilson Painting Co.
Florence, Alabama |

Visitor Contact Facility - Colbert Park:

The contact station at Colbert Park was constructed in accordance with PSC-DC drawing No. Pky-NT 3407A. This building, which covers approximately 1200 square feet, includes a men's toilet with 2 water closets, one urinal, and one lavatory; and a women's toilet with 3 water closets and one lavatory. All fixtures were manufactured by American Standard. Both toilets have florescent and incandescent lighting and are heated by a wall-mounted, thermostatically controlled, 220 volt Chromolox No. KSR 363T heater. Each toilet contains an exhaust fan extending through the ceiling and roof. A storage room with service sink and wall-mounted Chromolox No. KSR 363T heater is located between the two toilets.

The building is constructed on a 4" reinforced concrete floor slab poured monolithically with brick paving strips extending from contact area to edge of outside patio. The interior and exterior walls are brick, No. 983D "Velour Modular" by Holly Springs Brick and Tile Co., Holly Springs, Mississippi. The building has steel framing, built-up roof, and plate glass windows and entrance doors with aluminum frames with "Duranodic" 312E, Medium Bronze finish.

The paint colors and mixtures are as follows:

Base paint: Pittsburg Paint Serial No. 16-P-48
Additives: 2 oz. $\pm$ Chrome Yellow to 1 gal. base paint
2 oz. $\pm$ Lamp Black to 1 gal. base paint

Air conditioning for the building is provided by 2 Lennox outdoor units Model HP6-511V-4FW and is matched with Chromolox auxiliary electric duct heaters Model FFT-7.5.

Water Well

The water well was drilled by Miller Drilling Company, Lawrenceburg, Tennessee, during 1966 F.Y. under contract No. 14-10-0127-1733. Funds for the well drilling were financed by the WSC out of 1965 F.Y. Water Resources Funds. The cost for the water well is not included under this Work Order.

Pump and Pumphouse

The pump was manufactured by Red Jacket Mfg. Co. of Davenport, Iowa, and is in the Town'N Country series 2 H.P., Model 12CB, 18 G.P.M., single phase, 220 volt, 3450 RPM, capable of pumping 20 G.P.M. at 240 ft. total head.

The pump house, building no. 290, contains a water meter and hypochlorinator and accessories; and a 220 gal. pneumatic water tank suitable for 75 PSI working pressure, with conventional standard inlets and outlets, set to operate between 30 and 50 PSI pressure limits and fitted with a pressure relief valve set for 70 PSI.

The paint color and mixture on the pumphouse is as follows:

Base paint: Pittsburg Paint Serial No. 16-P-48
Additives: 2 oz. $\pm$ Chrome Yellow to 1 gal. base paint
2 oz. $\pm$ Lamp Black to 1 gal. base paint

Water Distribution System:

The water distribution system was installed according with Drawing No. Pky-NT-3407A.

A 27' section of 2" G.I. pipe connects pumphouse with 6" C.I. water line. 6" C.I. waterline extends 614' where 53' of additional 2" G.I. pipe connects water line to building and outside drinking fountain. See accompanying sketch.

Entire system was disinfected and pressure tested according to specifications.

Sewerage System:

The sewerage system, built according to Drawing No. Pky-NT-3407A, was designed to handle waste from the contact station, building no. 276, and consists of a 6,600 gallon septic tank and an 8,000 sq. ft. sewage disposal field, (80' x 100').

The disposal field consists of 11 trenches 100' long and spaced at 8' intervals. The trenches are 24" wide and are filled with 18" crushed gravel. 4" agricultural tiles are placed on 1" x 4" grade boards and covered with 2" crushed gravel, a sheet of 15 lb. building felt, and filled to grade.

Electrical System:

Power is supplied to the contact station by means of 3 # 3/0 copper cables, type USE 600V, which extend underground from the power pole adjacent to the parking area through a casing underneath the entrance drive and parking area and around to the northeast side of the building where they enter into the mechanical room. Distance from pole to mechanical room 238' ±. The transformer and electric meter are located on the pole where cables enter ground.

Distribution panel is circuit breaker type, rated for 120/240 V. single phase, 3 wire-service. Six circuit breakers rated at 5,000 amps I.C.; one 2P-30 amps; one 2P-20 amps, and four 1P-20 amps.

Space heater: 2,000 watt, 240 V. wall-mounted with self-contained thermostat by Electromode Co. Model WA-20. Electric water heater is Jackson glass-lined, 52 gal, 1000/1500 W.

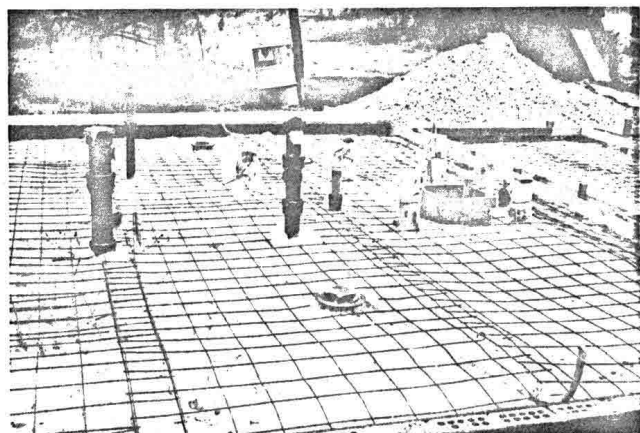
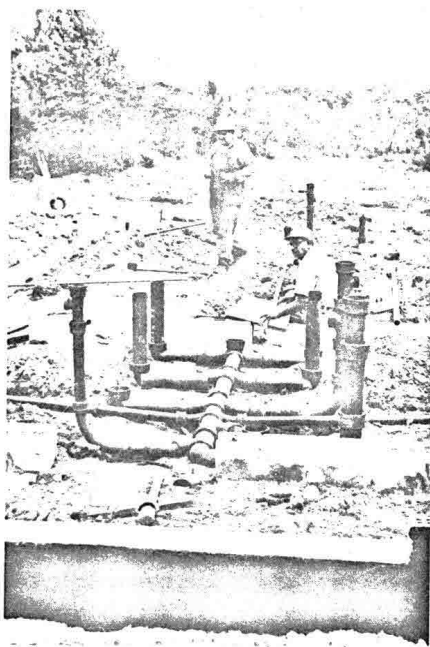
Walk lights - No. 2300 by Moldcast Mfg. Co., Newark, N. J. 07105. Wired with 450' ± of 2 #10 cable type UF w/ground.

BREAKDOWN OF COSTS
VISITOR-CONTACT STATION AND UTILITIES
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY
COLBERT COUNTY, ALABAMA
WORK ORDER NO. 225054

Contract No. 14-10-7-981-68	\$48,348.04
Less walks reported under Work Order No. 225051	- 921.00
Less portion building No. 276 (Visitor Contact Station) reported under Work Order No. 211718	- 24,938.15
Total Work Order No. 225054	\$22,488.89



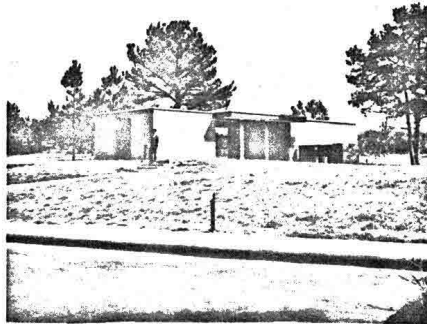
GRADING SITE FOR CONSTRUCTION OF VISITOR-CONTACT STATION
BUILDING NO. 276
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



VISITOR-CONTACT STATION UNDER CONSTRUCTION, BUILDING NO. 276
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



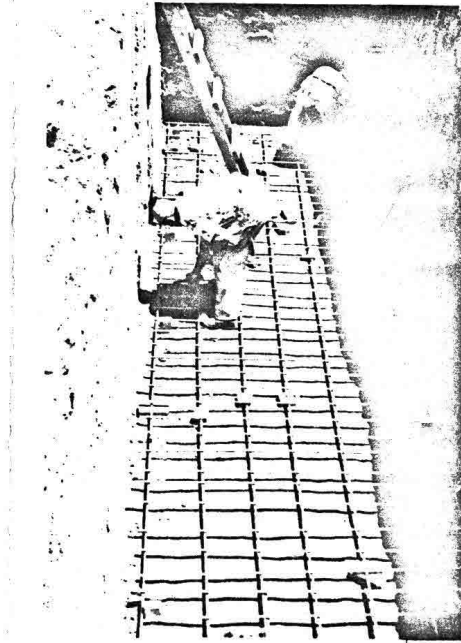
VISITOR-CONTACT STATION UNDER CONSTRUCTION, BLDG.NO. 276
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



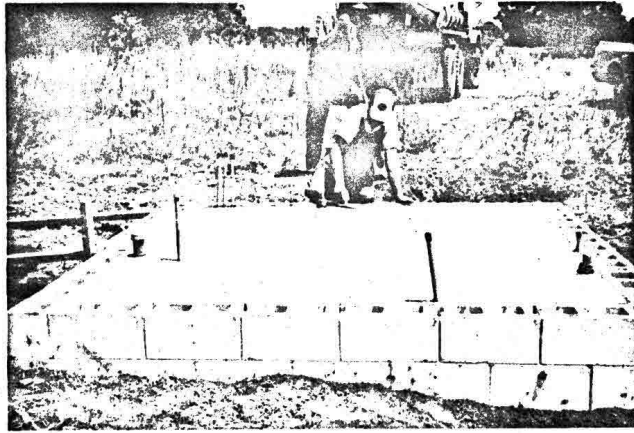
COMPLETED VISITOR-CONTACT STATION, BUILDING NO. 276
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



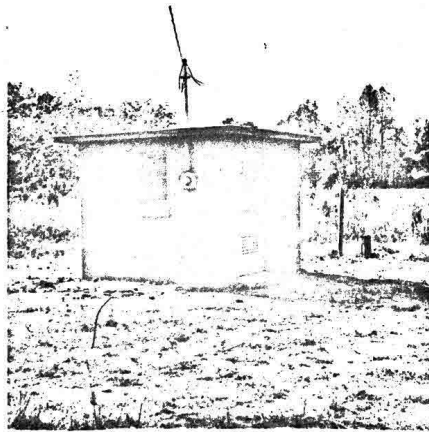
6" C.I. WATER MAIN UNDER CONSTRUCTION
FROM WELL NO. 1 TO VISITOR-CONTACT
STATION, BLDG. NO. 276
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



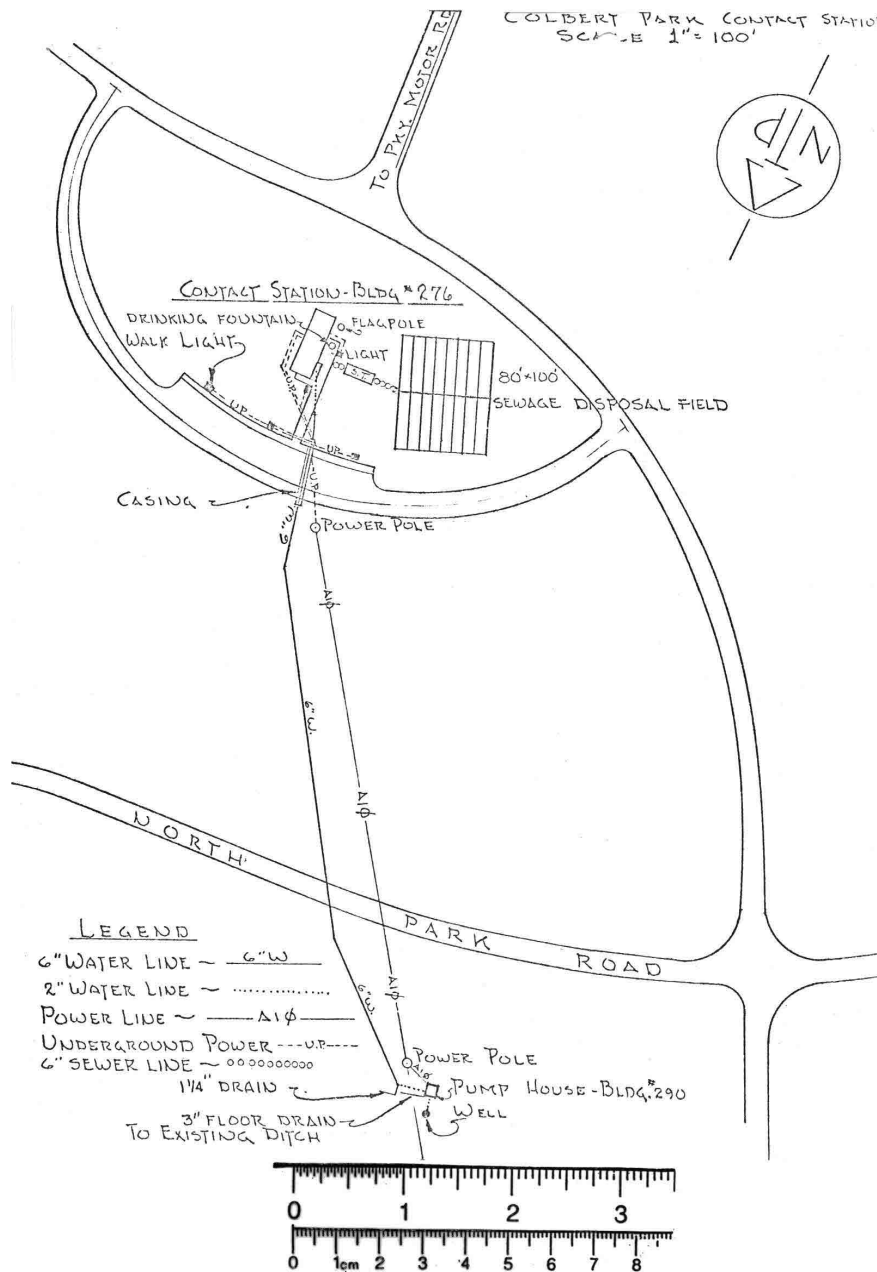
SEPTIC TANK AT BUILDING NO. 276
UNDER CONSTRUCTION - COLBERT PARK,
SECTION 2-C
NATCHEZ TRACE PARKWAY

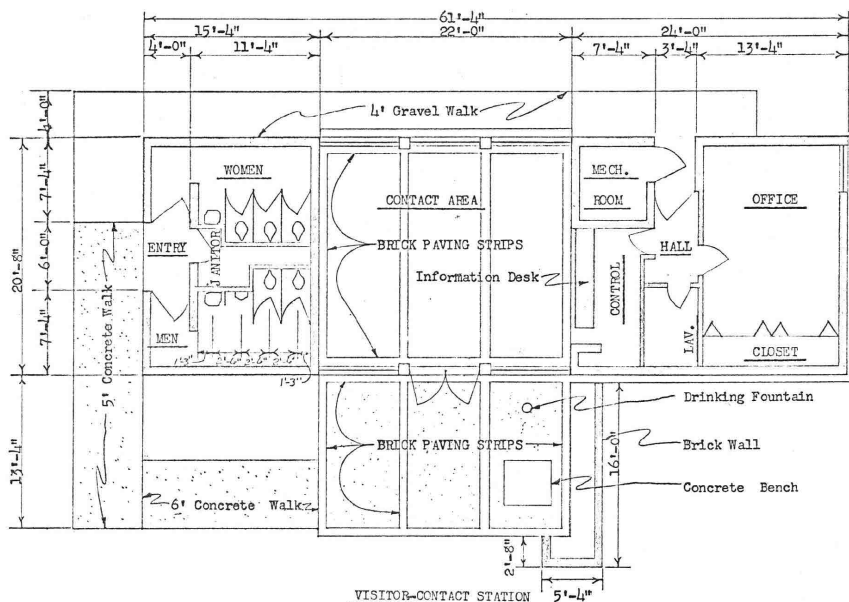


UTILITY BUILDING NO. 290, WELL NO. 1, UNDER CONSTRUCTION
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



COMPLETED UTILITY BUILDING NO. 290, WELL NO. 1
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY



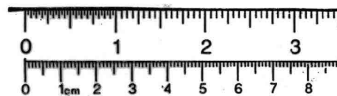


Date, Drawn: April 15, 1969

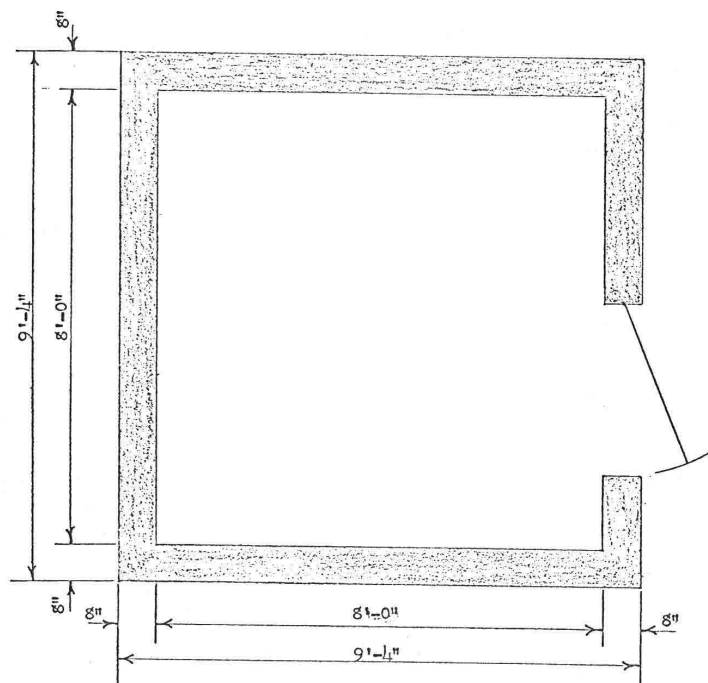
VISITOR-CONTACT STATION
COLBERT PARK, SECTION 2-C
NATCHEZ TRACE PARKWAY

BLDG. NO. 276

Scale: 1/8"=1'-0"



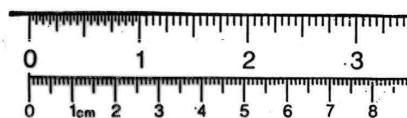
BLDG NO. 290
Well NO. 1



UTILITY BUILDING
COLBERT PARK
NATCHEZ TRACE PARKWAY

Date Drawn: Feb. 29, 1968

Scale: 1"=2'-0"





UNITED STATES
DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE
WASHINGTON PLANNING AND SERVICE CENTER
1730 NORTH LYNN STREET
ARLINGTON, VIRGINIA 22209

IN REPLY REFER TO:

L54 WSC-OLW

June 22, 1967

Memorandum

To: Supervisory Hydraulic Engineer, Richard W. Ketcham
From: Hydraulic Engineer, Garland Moore
Subject: Field trip to Natchez Trace Parkway, April 12 through
April 15, including Tupelo National Battlefield and Brice
Cross Road

The undersigned visited the areato:

1. Review with parkway personnel the well drilling program at Colbert Park, Alabama.
2. Discuss with Parkway personnel the progress made on water right dockets for that area.

The undersigned met with the following personnel during the trip:

1. Assistant Superintendent Dick Moyer
2. Civil Engineer, John Saxon
3. Civil Engineer, Glen Farrar
4. Geologist William J. Powell, U. S. G. S.
5. Geologist Harvey Whitman, U. S. G. S. and staff members of the Natchez Trace Parkway.

On April 13, we visited the Colbert Park area and learned that five wells to date had been drilled in that area in an attempt to locate a well that will produce 20 gpm. Two wells in the area produced 3 and 2 gpm; others were dry. Depth of wells varied from 221 feet to 253 feet beneath ground surface.

Because of the geologic information gained from drilling the five holes, the U. S. Geological Survey recommends that the best chances of locating water is now located in an area to the west of the roadway as shown in the attached sketch.

*Rec'd w/ memo dated June 23, 1967 see Assanteague for
Cover memo.*

The amount of \$6,500 was programmed with the approval of the Water Rights section of the Office of Land and Water Rights to cover the cost of drilling a maximum of two wells in this area, and if funds are available to cover the costs of deepening at one of the wells through the Chattanooga Shale and into the Silurian and Ordovician limestone layers to obtain flow, measurements and water samples for chemical analysis.

FISCAL: WSC-WR-67B

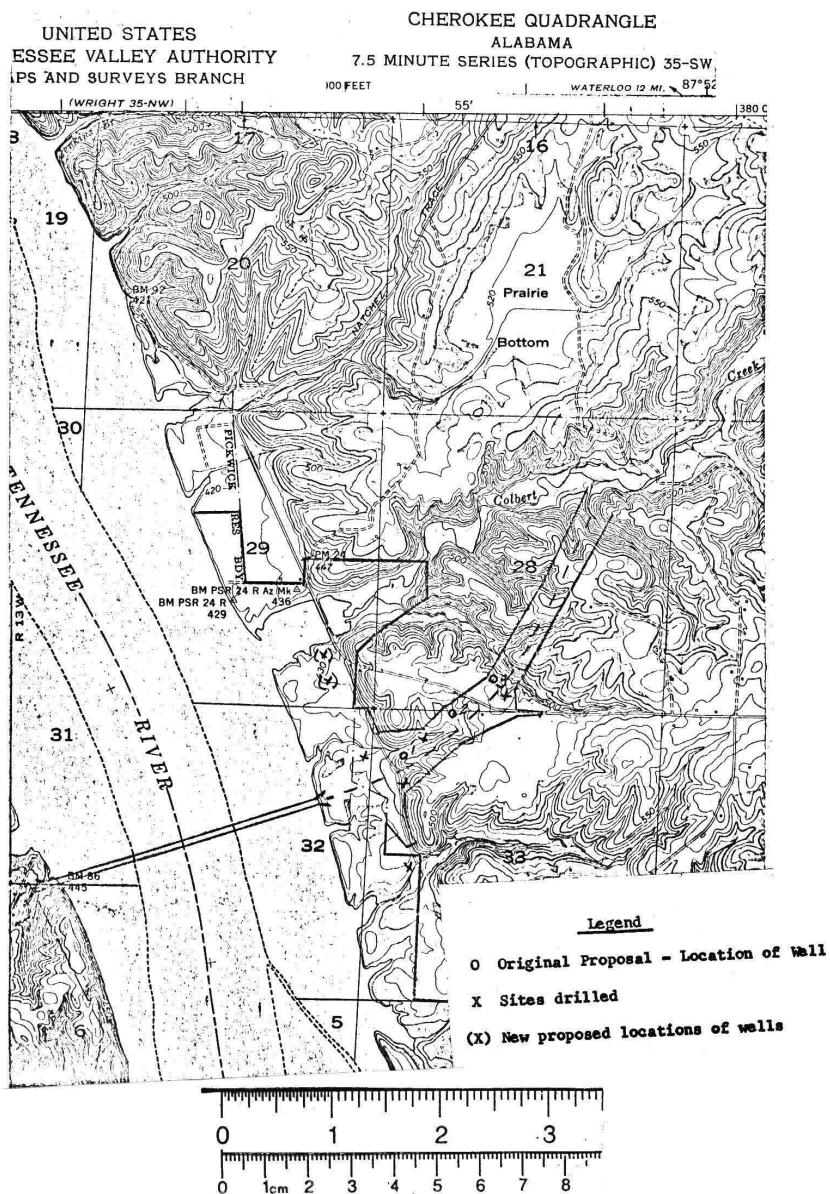
	<u>Original</u>	<u>Revised</u>
Contract with USGS	\$ 3,625	\$3,625
Contract with Well Drillers	24,105	32,769
Day Labor participation	+ 6,202	4,038
Total	<u>\$33,932</u>	<u>\$40,432</u>

All wrong

FUTURE PROGRAM:

Well drilling operations all not expected to be hindered because of land acquisition difficulties.

Garland Moore



CHEROKEE 1.5 MI.
TUSCULUM 18 MI.

T. 3 S.
T. 4 S.

R. 14 W. MT. HESTER 3.1 MI.

Docket Compiled: 5/27/2011