



WATER-RIGHT DOCKET

Yellowstone National Park

Docket No: 8

GRANT VILLAGE WATER SYSTEM

Other Supporting Information

10-26-1971: memorandum to director, nps from chief, water resources division regarding completion reports pertaining to water sy

AGFO WR# 1
GRTE WR# 8
ROMO WR# 57
YELL WR# 3
YELL WR# 4

October 26, 1971

Memorandum

To: Director, National Park Service
Attention: Chief, Division of Water Resources

From: Chief, Water Resources Division, Office of Land Acquisition
and Water Resources, WSC

Subject: Completion reports pertaining to water system development at
various National Park Service areas.

In response to your subject memorandum of the above subject, the following
completion reports should be filed in the indicated water right docket:

<u>Area</u>	<u>Report</u>	<u>WR Docket</u>
Agate Fossil Beds	Headquarters area	1
Grand Teton	Elbo Ranch	8
Rocky Mountain	Headquarters (Moraine Park)	57
Yellowstone	Grant Village	3
Yellowstone	Old Faithful	4

By copy of this memorandum, we are also sending copies of the completion
reports to the parks for their docket files.

SIGNED

Gerard S. Witucki

cc:

Director, Midwest Region
Superintendent, Agate Fossil Beds w/encl
Superintendent, Grand Teton w/encl
Superintendent, Rocky Mountain w/encl
Superintendent, Yellowstone w/encl

green copy



IN REPLY REFER TO:

154-CSW

United States Department of the Interior

NATIONAL PARK SERVICE
WASHINGTON, D.C. 20240

August 12, 1971

WESTERN SERVICE CENTER	
AUG 16 1971	
✓	DIRECTOR, WSSC
	CHIEF, ADM. SVC.
	CHIEF, CREAT.
	CHIEF, EDUC.
	CHIEF, EXT. AFFS.
	CHIEF, FIN.
	CHIEF, HIST. ARCHITECT.
	CHIEF, IDENT.
	CHIEF, INSP.
	CHIEF, INVEST.
	CHIEF, LEGAL COUNSEL
	CHIEF, MGMT.
	CHIEF, NAT. MON.
	CHIEF, PLANNING
	CHIEF, RESEARCH
	CHIEF, TRNG.
	CHIEF, WAT. RES.

Memorandum

To: Director, Western Service Center
Attention: Mr. Gerard S. Witucki

From: Chief, Division of Water Resources

Subject: Completion Reports pertaining to water system development
at various NPS areas.

Enclosed for your information are copies of pertinent portions of the
subject reports for the following areas:

Agate Fossil Beds NM - Headquarters area
Grand Teton NP - Elbo Ranch
Rocky Mountain NP - Headquarters Moraine Park
Yellowstone NP - Grant Village
Yellowstone NP - Old Faithful

We will temporarily file our copies in our correspondence files until
you advise where they should be filed.

Manuel Morris
Manuel Morris

Enclosures

3437-K

Form 10-174
(June 1962)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

FACE SHEET FOR COMPLETION REPORT

Park Yellowstone National Park Location in Park Grant Village ☒ Contract and/or ☐ Day Labor Work Order Title Water and Sewer Extension, Concession Area	Region Midwest State(s) Wyoming County or Counties Teton	Work Order No. 101-211771 Fund Symbol 14X1035 Year Programmed 1968 F.Y. PCP No. U-292 Master Plan No. 3707-A Master Plan Corrected By DCSSC As Built Drawings By DCSSC Date Started October 23, 1967 Date Completed August 27, 1969
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DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project) 230 - Utility Systems Water System 397 linear feet 6" water main, 2 fire hydrants, water meter, vault, valves and appurtenances (\$4,841.90) PS&S 774.70 Sewer System 1610 linear feet 6" sewer, 7 manholes and appurtenances including relocation of sanitary dumping station (\$11,994.80) PS&S 1,919.17 230--16,836.70 PS&S 2,693.87	TOTAL COSTS (For completion by FFO) 5,616.60 13,913.97 TOTAL \$ 19,530.57
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DISTRIBUTION No. To	THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES Submitted By: <u>Jon R. Larson</u> Title: <u>Project Supervisor</u> Date: <u>9-29-69</u> Approved By: <u>Gary Everhardt</u> Title: <u>Acting Superintendent</u> Date: <u>Nov. 13, 1969</u> COSTS VERIFIED BY: <u>Osborne H. Knick</u> Title: <u>SUPERVISORY ACCOUNTING SPECIALIST</u> Date: <u>6-31-71</u>
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GSA DC 65-14218 11360

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

Work Order Number

101-211771

COMPOSITION OF COST FOR COMPLETION REPORT

Fund Symbol

14X1035

Park

Yellowstone National Park

Region

Midwest

Year Programmed

1968 F.Y.

Location in Park

Grant Village

Work Order Title

Water and Sewer Extensions, Concession Area

COMPOSITION OF COST

COSTS CHARGED TO FUNDS ALLOTTED TO FIELD FINANCE OFFICE

(1) Personal Services.....	\$	
(2) Travel.....		
(3) Contract Work No. 14-10-2-101-98 \$16,836.70.....		16,836.70
(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	\$ 16,836.70

OTHER COSTS:

(12) PS&S, AP, and/or Facilitating Services @ 16 %.....	\$	2,693.87
(13) Inventory and Other Non-Fund Costs		
(14) GROSS WORK ORDER COSTS.....	xxxxxxxxxx	\$ 19,530.57
LESS:		
(15) Residual Value of Construction Equipment on Line 8.....	\$	
(16) Other Credits		
(17) NET COST OF FIXED ASSETS.....	xxxxxxxxxx	\$ 19,530.57

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

Form 10-411
(July 1965)UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

PROJECT CONSTRUCTION PROPOSAL

DISTRIBUTION OF COPIES	
NO.	1 Yellowstone
2	WODC
1	WASO
2	Midwest Region
1	Programs

1. STATEMENT OF MANAGEMENT'S REQUIREMENTS, PROPOSED WORK, AND ITS RELATIONSHIP TO OTHER FACETS OF THE PARK PROGRAM. (Provide detail data for "Management Information" on Form 10-411a, Supplemental Sheet and attach.)

This project proposes construction of water, sewer, and underground power extensions from existing mains to serve concessioner facilities at Grant Village. Connections to the concessioner stores, motel, lodge, service, and quarters buildings are planned.

Cast iron water lines should be laid below frost and designed with suitable valves, meters, and drains to sectionalize usage. Power extensions between the Montana Power primary service and the buildings and street lights are needed. Soils are sandy. Clearing has been largely completed under another project.

Utilities are needed to utilize concessioner buildings constructed to accommodate the increasing numbers of visitors. New concessioner contracts enable proceeding with this long planned development.

Project number and description
Project location
Project purpose
Project status
Project sponsor
Project date

Project number
Project location
Project purpose
Project status
Project sponsor
Project date

2. ADVANCE REQUIREMENTS DATA

LAND STATUS	MASTER PLAN NO.	APPROVAL DATE
All Federal Owned Park Land	NP-YEL-3437-J	Pending
PCP NUMBERS OF PREVIOUSLY COMPLETE PORTIONS	INTERRELATED & DEPENDENT PROJECT PCP NUMBERS	
None	R-451, R-485	
INTERPRETIVE PROSPECTUS APPROVAL DATA	DATE	
None		
WATER RIGHT NEEDS & STATUS		
None		

RESEARCH NEEDS & STATUS

None		
OTHER		
1. Quality of water		
2. Quantity of water		
3. Water quality		
4. Water quantity		
5. Water quality		
6. Water quantity		
7. Water quality		
8. Water quantity		

3. RECOMMENDED BY SUPERINTENDENT (Signature & Date)

4. APPROVED BY REGIONAL DIRECTOR (Signature & Date)

5. LOCATION WITHIN AREA OR TERMINI

Grant Village

6. BLDG. OR RT. # AND SEC.

7. REGION

Midwest

8. PARK

Yellowstone National Park

9. PROJECT

Water, Sewer, and Power Extensions
Concessioner Area

Teton

(County)

Wyoming

(State)

10. PCP INDEX NO.

U-292

1966

CLASS ☐ (A) - Estimate based on working Drawings.	P. S. & S. by: - S. S.
CLASS ☐ (B) - Estimate based on preliminary plans	Contract ☒ BPR ☐ NPS ☒
CLASS ☒ (C) - Estimate based on similar facilities in other parks	

ESTIMATE

ITEM	QUANTITY	COST
UTILITIES--GRANT VILLAGE--CONCESSIONER		
A. WATER SYSTEM		
1. 8" C.I. water pipe @ \$10.50 L.FT.	4000 L.FT.	42,000
2. 6" C.I. water pipe @ \$7.50 L.FT.	3000 L.FT.	22,500
3. 4" C.I. water pipe @ \$5.50 L.FT.	2000 L.FT.	11,000
4. 2" G.S. water pipe @ \$4.50 L.FT.	1200 L.FT.	5,400
5. 6" gate valves W/boxes @ \$450.00 Ea.	8 Ea.	3,600
6. 4" gate valves W/boxes @ \$250.00 Ea.	12 Ea.	3,000
7. 2" globe valves W/boxes @ \$125.00 Ea.	12 Ea.	1,500
8. Standard fire hydrants @ \$400.00 Ea.	12 Ea.	4,800
9. Concrete pipe blocks @ \$50.00 Ea.	25 Ea.	1,250
10. 6" C.I. tees @ \$100.00 Ea.	24 Ea.	2,400
11. 6x6" x 2" tees @ \$100.00 Ea.	12 Ea.	1,200
12. Building hookups @ \$100.00 Ea.	15 Ea.	1,500
13. Misc. fittings and equip.	L. S.	5,000
	SUB TOTAL	105,150
B. SEWER SYSTEM		
1. 6" C.I. sewer pipe @ \$7.00 L.FT.	4600 L.FT.	32,200
2. 6" C.I. cleanouts @ \$75.00 Ea.	20 Ea.	1,500
3. Extra lengths for M.H. @ \$45.00 L.FT.	40 L.FT.	1,800
4. Standard manholes @ \$350.00 Ea.	20 Ea.	7,000
5. 4" C.I. force feed line @ \$7.00 L.FT.	750 L.FT.	5,250
6. Sewage Lift station, complete in Pl.	L. S.	9,500
7. Building hookups @ \$100.00 Ea.	18 Ea.	1,800
8. Misc. pipe and fittings	L. S.	5,000
	SUB TOTAL	64,050
C. ELECTRICAL		
1. Transformers and vault	L. S.	4,000
2. U.G. 3 in 2" transite conduit @ \$8.00 L.FT.	2000 L.FT.	16,000
3. Building hookups @ \$100.00 Ea.	14 Ea.	1,400
4. Misc. supplies and materials	L. S.	2,070
	SUB TOTAL	23,470
NOTE		
The above figures will only extend the systems to the first stage units, to extend these systems to the future development will require an additional \$125,000.		
RESEARCH ESTIMATE APPROVED:		
(Asst. Director, Resource Studies)	(Date)	
CONSTRUCTION ESTIMATE APPROVED:		
(for) (Design Office Chief)	(Date)	
INTERPRETIVE ESTIMATE APPROVED:		
(Asst. Regional Director, Q)	(Date)	
ESTIMATE TOTALS		
RESEARCH		
Construction		192,670
Plans, Surveys, and		
Supervision		38,540
Contingencies		25,690
CONSTRUCTION		
SUB TOTAL		256,900
INTERPRETIVE		
SUB TOTAL (100%)		256,900
GSA TOTAL		
		256,900

GSA UC 66-2827

Form 10-170 (June 1962)		UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE		Work Order No. B-30-Yell(1964-46)	
FACE SHEET FOR COMPLETION REPORT				Fund Symbol 14X1035	
Park Yellowstone National Park		Region Midwest	Year Programmed 1961		
Location in Park Grant Village Area		State(s) Wyoming	PCP No. U-118-3		
Collection Station		County or Counties	Master Plan No. NP-Yell-3437G		
☒ Contract and/or ☐ Day Labor		Master Plan Corrected By C. Johnson, J. C. Ballard			
Work Order Title Construction of Utilities, Grant Village Area		As Built Drawings By J. C. Ballard D. Bottles, Morrison-Holmes			
		Date Started First per, 9/10/60 August 14, 1961			
		Date Completed October 15, 1963 ✓			
DESCRIPTION OF FIXED ASSETS (For completion by employee in charge of project)			TOTAL COSTS (For completion by FFO)		
100.8 Utilities			620,893.05		
100.8-1 Water Systems					
100.8-2 Sewer Systems					
Contract 14-10-0243-410					
COP Construction Corp.					
Contract 14-10-0243-413					
Kloepfer Construction Co.					
Contract 14-10-0243-414					
Acton Construction Co.					
Contract 14-10-0100-1231					
McLaughlin Construction Co.					
AA-3-1443 7/25/60 58,650.00					
AA-3-1464 8/2/60 249,317.40					
AA-3-1483 8/26/60 188,279.00					
AA-3-1512 9/22/60 34,618.00					
AA-3-1603 2/15/61 65.00					
AA-3-1611 2/24/61 735.17					
AA-3-1815 10/25/61 892.50					
AA-3-3-19 8/6/62 115.00					
AA-3-3-34 9/18/62 561.28					
AA-3-3-54 10/23/62 2,519.28					
AA-3-3-135 5/24/63 Re 500.00					
Total 535,252.63			TOTAL \$ 620,893.05		
THE FIXED ASSET DESCRIBED ABOVE HAS BEEN COMPLETED IN ACCORDANCE WITH APPROVED DRAWINGS, SPECIFICATIONS, AND AUTHORIZED CHANGES					
DISTRIBUTION					
No.	To				
1	Director	Submitted	<i>Herald A. Foss</i>	Title:	Park Engineer
1	WDC	By:			Date: 2/11/64
1	Reg. Dir.	Approved	<i>Richard T. Nelson</i>	Title:	Superintendent
1	Engr.	By:			Date: 2/11/64
1	Finance	COSTS VERIFIED		Title:	
		BY:	<i>CC Expert</i>	Accounting Officer	Date: 2/11/64
CRA:neh					

Yellowstone Design, Inc.

N T P P

ESTIMATE NO. 5		FOR (Period) October 15, 1962 - October 16, 1963		DATE October 29, 1963	
CONTRACT NO. 14-10-0243-410		COMPLETION DATE Sept. 15, 1961		EXTENDED DATE June 6, 1963	
CONTRACTOR Cop Construction Company				ORIGINAL CONTRACT \$ 58,650.00	
PROJECT 1.5 Million Gallon Steel Water Reservoir				CHANGE ORDERS 3 -0-	
LOCATION Grant Village				TOTAL CONTRACT \$ 58,650.00	

ITEM NO.	CONTRACT QUANTITY	DESCRIPTION	QUANTITY TO DATE	UNIT PRICE	AMOUNT TO DATE
1	Lump Sum	1.5 Million Gallon Steel Water Reservoir, Valve Chamber and appurtenances as shown on contract drawing or as specified	100%	\$58,650.00	\$58,650.00

RECOMMENDED (Project Supervisor)

E. B. Martin, Project Supervisor

APPROVED (Contracting Officer)

Edis A. Cartellum, Associate Supervisor

10/30/63

(See Reverse for Distribution)

SUMMARY

TOTAL TO DATE	\$ 58,650.00
LESS RETAINED AMOUNT.....	0.00
NET.....	58,650.00
LESS PREVIOUS PAYMENTS.....	0.00
LESS LIQUIDATED DAMAGES.....	0.00
DUE THIS ESTIMATE.....	58,650.00
% COMPLETED TO DATE.....	100%

11 1425

Show Breakdown on Reverse

YELLOWSTONE NATIONAL PARK
YELLOWSTONE PARK, WYOMING

Page 1 of 5 pages

W-14
413-Kleop

DATE October 5, 1962
(Month, Year)

CONTRACT NO. 14-10-243 413 CONTRACTOR Kleopfer Construction Co.

WORK ORDER NO. B 39-YEL (332.46) LOCATION Grant Village, Yellowstone NP

CONSTRUCTION OF Water and Sewer Systems

ORIGINAL CONTRACT	\$249,317.40
Change Order No. 1, letter dated 9/20/60, deduct:	(462.00)
Revised Amount of Contract	\$248,855.40
Change Order No. 2 dated 10/12/61 (Add)	1,354.50
Change Order No. 3 dated 8/21/62 (add)	561.28
Total contract Price	\$250,771.18

BID ITEM	CONTRACT QUANTITY	DESCRIPTION	UNIT PRICE	QUANTITY TO DATE	AMOUNT TO DATE
		<u>WATER SYSTEM</u>			
1	1.5	Acres, clearing and grubbing	\$1,000.00	4.0	4,000.00
2	1	Lump Sum, Infiltration Gallery	15,700.00	100%	15,700.00
3	370	Lin.Ft., Feeders for Infiltration Gallery	30.00	370	11,100.00
4	1	Lump Sum, Sump, Pump, and Controls	15,000.00	100%	15,000.00
5	1	Lump Sum, Chlorination Hose and Chlorinator	5,200.00	100%	5,200.00
6	4,600	Lin.Ft., No. 16 Gauge Telesseal Control Cable, complete, in place	.20	8,508.0	1,701.60
7	18	Each, Water Stations	700.00	18	12,600.00

ge 2 of 3 Pages

Bid Items	Contract Quantity	Description	Unit Price	Quantity to Date	Amount to Date
8	1	Lump Sum, 6" Water Meter and enclosure	\$1,150.00	100%	1,150.00
9	3	Each, Fire Hydrants in place	330.00	3	990.00
10	4,600	Lin. Ft., 10-inch Class 150 C.I.M.J. Cement Lined Pipe installed	6.15		
10A	4,600	Lin. Ft., 10-inch Class 150 Asbestos Cement Water Pipe installed	4.86	4,300	20,898.00
11	3,400	Lin. Ft., 8-inch Class 150 C.I.M.J. Cement Lined Pipe, installed	4.75		
11A	3,400	Lin. Ft., 8-inch Class 150 Asbestos Cement Water Pipe installed	3.80	1,150	12,610.00
12	5,500	Lin. Ft., 6-inch Class 150 C.I.M.J. Cement lined Pipe, installed	3.65		
12A	5,500	Lin. Ft. 6-inch Class 150 Asbestos Cement Water Pipe installed	3.08	5,072.0	16,545.76
13	1,050	Lin. Ft., 4-inch Class 150 C.I.M.J. Cement Lined Pipe installed	2.91		
13A	1,050	Lin. Ft., 4-inch Class 150 Asbestos Cement Water Pipe installed	2.54	1,053.0	2,674.62
14	9,700	Lin. Ft., 2-inch, Stand- ard Strength, Galvan- ized Steel Pipe in- stalled	1.70	10,309	17,525.30
15	1,000	Lin. Ft., 1-inch Stand- ard Strength Galvan- ized Steel Pipe installed	1.30	990.0	1,287.00

Bid Item	Contract Quantity	Description	Unit Price	Quantity to Date	Amount to Date
16	4	Each, 10-inch Gate Valves with Buffalo type Valve Box in place	\$238.00	4	952.00
17	11	Each, 8-inch Gate Valve with Buffalo type Valve Box in Place	160.00	5	1,760.00
18	24	Each, 6-inch Gate Valves with buffalo Type Valve Box in place	115.00	27	2,480.00
19	3	Each, 4-inch Gate Valves with Buffalo type Valve Box in place	82.00	3	410.00
20	46	Each, 2-inch Gate Valves with Buffalo Type Valve Box in place	35.00	50	1,900.00
21	9	Each, 1-inch Gate Valve with Buffalo type Valve Box in place	26.00	8	208.00
Total Water					145,270.28

SEWER SYSTEM

1	3.5	Acres, Clearing and Grubbing	1,000.00	3.5	5,300.00
2	1	Lump Sum, Lift Station No. 1 complete in place with Wet Well and Electric Connections	9,600.00	100%	9,600.00
3	1	Lump Sum, Lift Station No. 2 complete in place with Wet Well and Electric Connections	9,700.00	100%	9,700.00

NARRATIVE REPORT

B-39-YEL (332.46)

COP portion, Contract No. 14-10-0243-410

DESCRIPTION: Furnish and install a steel reservoir and appurtenances, complete with sand cushion, valve chamber, piping, roof hatch, manholes, vents, valves, ladders, lighting protection, conduit at reservoir, visual gauge, painting at Grant Village, Yellowstone National Park, Wyoming.

AUTHORIZATION: PCP U-118-3, to Construct a reservoir and including a water system to serve Grant Village.

PLANS, SURVEYS AND SUPERVISION: Working Drawing No. NP-YEL-3726 (3 sheets), Steel Water Reservoir, Grant Village, Yellowstone National Park, was prepared in the Western Office of Design and Construction, San Francisco, California. Preliminary surveys, construction surveys and supervision of construction were accomplished by WODC. Contract administration was by Park personnel.

PROJECT ACTIVITY: Contract No. 14-10-0243-410 was awarded to the low bidder (4 bids submitted), COP Construction Company, 612 Central Avenue, Billings, Montana. The contract bid schedule required a lump sum bid for 1,500,000 gallon capacity steel water reservoir, valve chamber and appurtenances as shown on contract drawings or as specified in the specifications.

The contractor arranged for sub-contractor Eaton Metal Products Company, P. O. Box 2565, Denver, Colorado, to fabricate and erect the reservoir. Addendum No. 1 dated July 1, 1960 stated in part that the Special Provisions SP16 of the contract should read "Access Roads should be completed for use of construction equipment by middle of September." Special Provision SP03 amended to read "To complete entire work by September 15, 1961, commencement of work at contractor's option." The Contracting Officer notified the contractor on July 22, 1960 to proceed with the work and set a completion date of September 15, 1961 and by letter dated August 2, 1960 setting the date of July 28, 1960 as first contract calendar day. A letter dated October 18, 1960 from the Contracting Officer to the Contractor said that progress of construction of the access road and site preparation were not such as to enable the Contractor to start construction in 1960 and construction would be resumed upon written notice by the Contracting Officer. This letter superseded the August 2, 1960 letter. A letter dated August 14, 1961 directed the Contractor to resume operation on August 14, 1961. Finding of Facts dated October 29, 1963, stated "In accordance with Addendum No. 1 which established September 15, 1961 as the completion date and as the first notice to proceed was dated July 22, 1960, this in effect, whether extended or not, established a period of 420 calendar days for completion of the contract. We believe the Contractor could enforce this extension if he were to appeal a decision for any other period of time. Work was actually begun on August 14, 1961

NARRATIVE REPORT

Work Order 101-211730

Contract Number 14-10-0243-598

Boat Docks and Related Facilities

The work of this project was performed by contract. Mr. Paul R. Lee, Bozeman, Montana executed the work under contract number 14-10-0243-598.

Drawings NP-YEL-6111, 19 sheets and specifications, were prepared by the Design and Construction Office, San Francisco Service Center. The bids were opened in the Park at 2:00 p.m. August 11, 1964. Four bids were received, the low bid, Paul R. Lee, \$253,676.00 and highest bid, \$324,617.00. The Engineers Estimate was \$290,225.00. One other bid was under the estimate and two exceeded the estimate. The contract was awarded August 28, 1964, but no work was accomplished at the site due to the pending winter freeze. The Notice to Proceed was issued effective July 26, 1965. An earlier date would have been advantageous but the work of dredging, bulkheading and installation of utilities required the delay for their completion so the site would be reasonably accessible. Concurrent with the boat dock work, a contract was in effect at the site for road, parking and walk construction at the Marina.

During the winter of 1964/65 the Contractor completed his acquisition of materials and prefabricated the numerous docks less decking. This also allowed sufficient time to correct and adjust the many conflicts in drawing dimensions and details that occurred in the 19 sheets of drawings. Changes and modifications in piling for docks and monorail hoist were also completed before construction at the site commenced. All submittals of material and equipment furnished by the contractor were completed during this period.

When work at the site commenced in July 1965 the Lake water level was very high. The level rose to its maximum, which inundated the sand bar along the lake shore which protected the Marina lagoon. The contractor received a Change Order to bulkhead the sand bar, raise the entrance structures and place additional material on the sand bar for Marina protection. This work was included in Work Order number 101-211752.

This delayed the boat dock work because it was not practical to place docks in position without the protection of the sand bar and because the contractor and his forces were working on the bulkhead.

In October the bulkhead was well established and a storm lashed the Marina and damaged docks and facilities completed. This required a breakwater to protect the entrances and Marina, and is another story. See completion report 101-211752 for bulkhead and breakwater. A Stop Order was issued October 29, 1965 on the contract after the completed work was secured from further damage and protected from the winter lake freeze.

The following year, 1966, the Notice to Resume Work was issued June 20. The work progressed greatly but was not completely finished when a Stop Order was issued November 4, 1966. There had been a final inspection and only minor punch list items of work remained. Mr. Paul R. Lee expired February 20, 1967. The widow and Estate completed the remaining work. The work resumed June 23, 1967 and was accepted July 5, 1967.

The contract provided very complete boat dock and related facilities for the Grant Village Marina and Grant Village campground boating lagoon and launching area. These facilities are nearly the complete requirements for boating use. The project will be an outstanding Marina operation when the Concession Sales and Repair buildings are constructed. The addition of other concession facilities at Grant Village will provide for a wide variety of visitor activities in this area.

Several items will require further work and/or early replacement. The fish cleaning stations have only one half of the sink and disposal facilities installed. There are the necessary plumbing and electrical connections provided for the installation of the second unit when use of the area requires expansion of these facilities.

The fueling facilities will require considerable maintenance, and early replacement of this installation is recommended. The blending pumps can be disconnected and removed at any time, as they cannot be made to operate properly by the manufacturer or any combination of technical personnel.

The general electrical system in the Marina will require early replacement. The conduit and pull boxes are trapping water from condensation in this area adjacent to the Lake. Freezing of water in the conduit is deteriorating the insulation of the wires, and shorting out. Direct burial cable and exposed conduits on the bulkhead which can be drained will be required in the near future.

The system of providing water on the docks will necessarily be modified and eventually reconstructed. The Public Health Service has taken a dim view of hose connections which are installed. The water service boxes provided are not satisfactory for ease of operation and/or appearances on the docks. The spacing and placement has been criticized by the operators of the Marina.

Although not concerned with this contract, the Marina will not be effective until a permanent breakwater can be constructed to protect the Marina entrances and shelter the docking lagoon.

NARRATIVE REPORT

Work Order 101-211745

Contract Number 14-10-0243-655

Utility Extensions to Cabin, Concessioner & Government Areas (Por.),
Grant Village.

Description: Project consists of a concrete potable water reservoir to serve as an alternate to the existing steel reservoir and a two inch water line to serve the Grant Village Incinerator. These items were packaged with other projects under a single contract, and Grant Village portion of the work amounted to approximately 50% of the work.

Authorization: Utility Extensions - Grant Village
Work Order No. 101-211745
PCP U-236

Survey, Plans and Specifications: Construction Drawing No. NP-YEL-6204, (9 sheets) Utility Extensions, Grant Village, Yellowstone National Park, was prepared at Western Office, Division of Design and Construction. Preliminary surveys, construction surveys and supervision of contract construction were performed by Western Office, Division of Design and Construction personnel. Contract Administration was performed by Yellowstone National Park personnel.

Project Activity: Contract No. 14-10-0243-655 was awarded to the lowest of six bidders; Hartwell Excavating Company, P. O. Box 376, Idaho Falls, Idaho, on July 22, 1965.

Acknowledgment of Notice to Proceed on August 9, 1965 established an allowance of 150 calendar days to complete the contract work with a completion date of January 6, 1966.

A Stop Work Order was issued on October 19, 1965; and an order to Resume Work was issued on June 20, 1966, extending the contract completion date to September 6, 1966.

Change Order No. 1, dated October 19, 1965 involved relocation of Lake Sewage Disposal System but did not change the completion date.

Change Order No. 2, dated August 22, 1966 provided for concrete floor in the Reservoir valve box and four inch cast iron drain to daylight. Minor improvements in concrete work were also covered by this change. The 14 days allowed for this work extended the completion date to September 20, 1966.

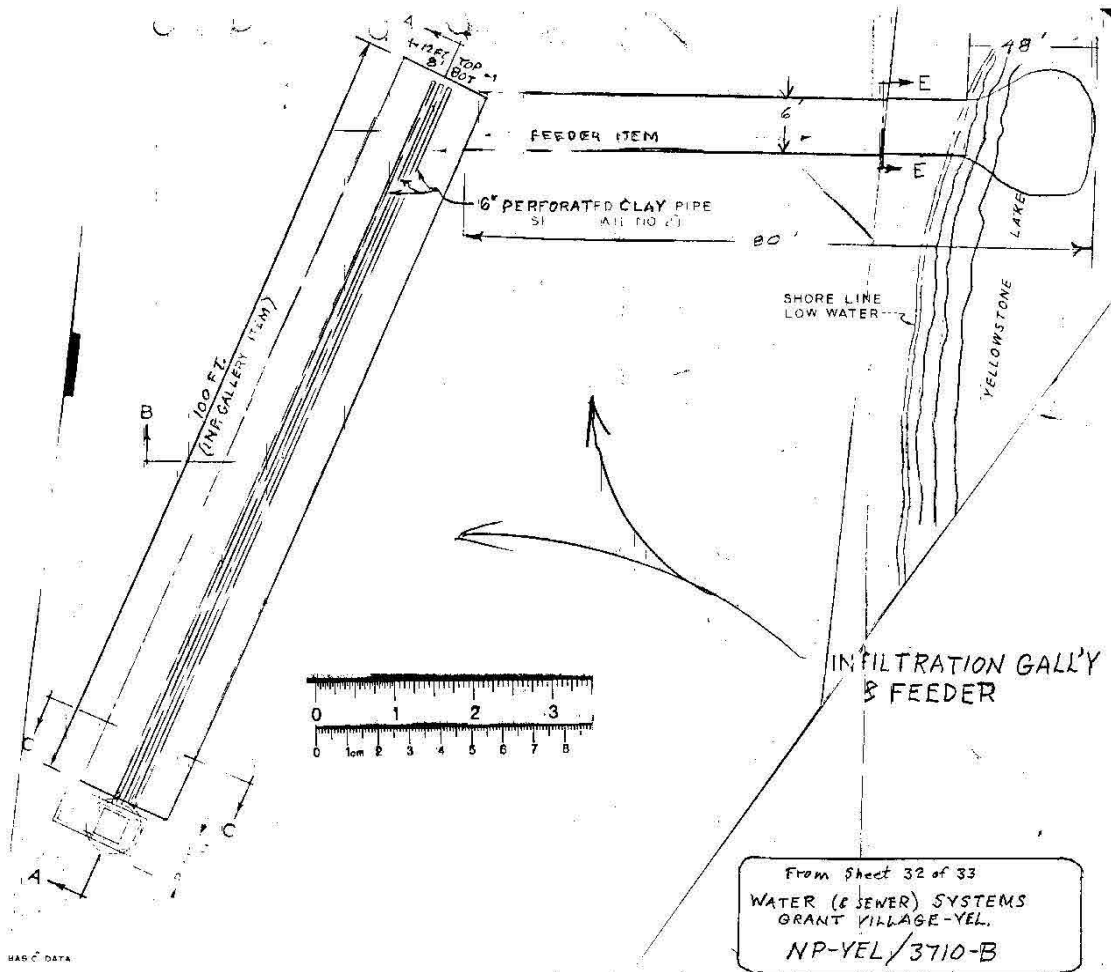
Change Order No. 3, dated September 30, 1966 provided for restoration of areas disturbed by utility installations both at Bridge Bay and Grant Village, by seeding these areas with suitable grasses. The 17 days allowed for this extra work advanced the completion date to October 7, 1966.

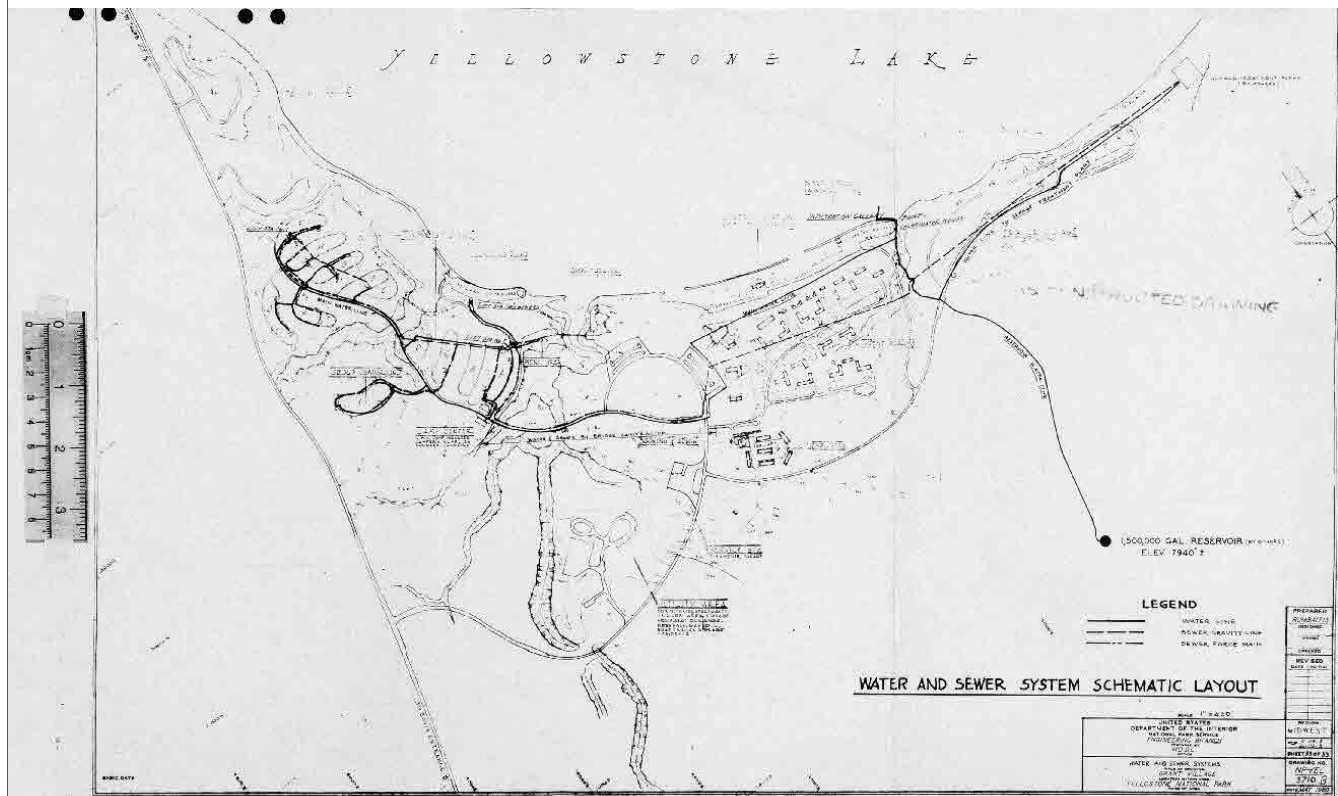
Although costs of reservoir and valve chamber changes as outlined in Change Order No. 2 were \$904.00, minor reductions in various other items in the bid schedule covered the difference and no overruns occurred.

Final Inspection was made on this portion of contract work on September 29, 1966.

Work Accomplished: The construction of the 250 thousand gallon potable water reservoir required connections to existing Grant Village utility system and the two inch line to the programmed incinerator site was performed in accordance with plans and specifications. All work was completed on schedule.

Summary: An immediate requirement for "early and late" frost proof water storage, the ultimate potential value if year round concessioner activity materializes and periodic use while existing steel reservoir is under maintenance, prompted the construction of this facility. Tests made at various stages of the contract work indicate that a useable system was developed.





Docket Information

Number of Documents in Docket 19

Documents Dated from 5/15/1960 to 10/26/1971

Docket Compiled: 7/29/2011