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Dec. 1942 - May 1943

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Weekly Narrative Report-May 20, 1943--6

4. CURRENT PROBLEMS:

- (a) Man power shortage
- (b) A supplement to Administrative Instruction 81 has been received from Director D. S. Myer calling for revamping of our telephone system so that all fire reporting phones will terminate in a special switchboard. This is a large order and will difficult to comply. ✓

5. RECOMMENDATIONS OR GENERAL SUGGESTIONS:

No comment.

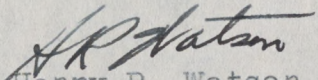
6. COMMENTS ON CONDITIONS AMONG EVACUEES:

No comment.

7. FORECAST OF PROJECTED ACTIVITIES:

- (a) Construction, repair and conditioning of irrigation structures.
- (b) Operation of drag line on excavation of 15 " tile drain running east from D-100 drain through west half of Section 11.
- (c) Continuation of grading and maintaining project road system.
- (d) Construction of new ditch along east boundary of Section 12 to divert water from the Abraham Canal System to the Delta Canal System.
- (e) Continuation of construction on the Topaz Irrigation System.
- (f) Delivery of irrigation water.
- (g) Repair of bridge, over C-100 drain, between Sections 21 and 22.
- (h) Air conditioning installation.
- (i) Routine sanitary inspections.
- (j) Continuation of the usual maintenance and operation of Topaz City.

Respectfully submitted,


Henry R. Watson,
Senior Engineer

HRW/an;ah

January 1, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending Thursday,
December 31, 1942

1. NUMBER OF PERSONNEL EMPLOYED:

- (a) Permanent - 10
- (b) Temporary - 30
- (c) Evacuees - 492
- (d) Adequacy of Personnel - We are still in need of resident workers for the Irrigation Section to clean tile drains and construct bridges and roads. We are entering into the construction program for the construction of Administrative Dwellings and High Schools and other buildings at our Project and we are going to need for the present, considerable number of laborers to lay tile and dig trenches and etc. The Caucasian staff is now filled with the exception of Chief Construction Foreman, one Senior Construction Foreman and one Plumber Foreman.

2. PROGRESS OF CURRENT WORK:

a. Maintenance and Operations Section

X Considerable difficulty has been experienced with our water mains, they being constructed of reclaimed iron pipe with no expansion joints. A number of leaks have developed in the water line which are rapidly being taken care of. Difficulty is being experienced also with the water lines in that considerable sand was pumped into the water system by the Army Engineers when they placed a large pump direct on well #6 and pumped directly into the water system without first pumping the well according to specifications. Every effort has been made to remove this sand from the system, boilers have been drained to remove the sand and unsuccessful attempts have been made to flush the system to remove some of this sand. It is believed that we may remove some of this sand in the water system when our permanent storage tank is installed and we have additional pressure. X

A portable machine was made to saw up kindling wood and the crew was started sawing this wood. This wood will, however, not be issued until all the existing supply in the scrap pile is salvaged.

b. Electrical Section

Most of the time of the Electrical Section other than Electrical Maintenance has been devoted to salvaging the old telephone system following the completion of the new system's installation and operation. A hum has developed in the telephone system and we are waiting instructions from the Signal Corps to determine whether this work should be handled by our Department or by them.

During the past week the auxiliary unit of the sewage plant was installed by the Contractor and the bearings for the north pump which was turned down recently have arrived and will shortly be installed.

c. Irrigation and Conservation Section

Teams and Bulldozer have been busy expediting cleaning drains where the irrigation water caused a ~~slough~~^{slide} which plugged the drain. ~~Decorations~~^{Drawings} and plans are being made to layout the system whereby water elevations can be taken over the Project to keep records of water tables. Maps are being prepared on large scales showing the location of tile drains and so these can be cleaned and put into operation for next summer's irrigation.

The activities of the Irrigation Section have been seriously curtailed by the lack of resident workers and we have requisitioned for more employees with no results.

The Survey Party have spent their time in making investigations of possible ways to get rid of the sewage water west of the Project and are working on Irrigation and Drainage Ditches and staking out buildings for construction. Because of the lack of sufficient fall ~~of water~~, it appears, for the present, impossible to drain the sewage water north through the dry slough away from the City. Investigations will be made as to possibilities of lowering this dry slough a distance of about ten miles to create enough grade to remove this sewage as well as drain water away from the Project.

d. Design Section

Preliminary Sketches and layouts of Staff Housing have been completed. Working drawings for the Ice Storage Plant which will be started next week, are being worked up. Drawings and estimates on blue prints, photostat room, Hot Boxes for Agricultural Division, Manager's Office have been designed ready for construction next

week. Preliminary drawings for the water system at the Bolin Ranch has been prepared. Other construction and drawings are being held up for arrival of Pl9h.

e. Construction Section

Winterizing of Recreation Halls and Dining Halls throughout the City has been completed. The winterizing of apartments with the exception of ten barracks in Block 1 is completed. We are taking advantage of the good weather and staking and checking over our lumber supply. Forms have been prepared to requisition for the lumber supply so that records can be kept of all lumber going out for construction of various jobs. This record will reveal any losses through construction or waste. This effort is being made to reduce to a minimum any waste which may occur in construction process.

The garage received from Daley Brothers is being moved to the Garage area to be reconditioned as a Blacksmith Shop. Construction of Garbage racks is about 40 per cent complete and the construction of partitions in ladies latrines is about 30 per cent complete. A crew has been assigned to gather all material, lumber and saw horses throughout the area so that they can be stacked in the lumber pile.

Because of the steam generated in the shower rooms, old ~~vents~~^{vents} which was salvaged from the discards in the scrap pile by the Army Engineers, is being used to construct attic ~~fence~~^{vents} in shower rooms to allow for the dissipation of this steam.

The skirting through the camp is complete except for a few buildings which the residents have volunteered to do themselves.

f. Sanitary Section

Mr. Wayne Sutton, Sanitary Engineer has been making inspections of Sanitary conditions throughout the kitchens and etc. and making his recommendations to Division Chiefs. The operation of the pump wells, hospital boilers and sewage pumps were turned over to Mr. Sutton because of his experience and familiarity with the construction of these items at our Project and his background in this field together with his sanitary engineering. Under his direction, repairs were made on the north pump at the Sewage Disposal Plant. A crew of five men are now employed to maintain 24 hour vigil at the wells. These wells have recently been turned over to our Project by the Army Engineers.

4. CURRENT PROBLEMS:

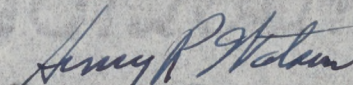
It has been quite evident that the expediting force or someone to expedite and follow through on the purchase of materials, is necessary. In so far as the new construction is concerned, lumber which was ordered a month ago for the Staff Dwellings and Schools by the Regional Office, is not arriving and we don't know what is the status or where this lumber is. We are in dire need of information regarding requisitions for Purchase Order Numbers, Vendors names on all construction materials that have been started or passed by the Regional Office. Until this information is forthcoming, it will be impossible to properly schedule our construction program.

Example of the problems we have to encounter in construction of the various jobs at our Project is shown in the sewer tile which recently arrived. We were not advised of its arrival in Delta or at the Project Warehouse and it was only that we observed the tile on the truck that we knew that this tile had arrived at this Project. Some means of informing the Public Works Division of the status of these various construction materials is imperative.

7. FORECAST OF PROJECTED ACTIVITIES:

We plan to start construction on the Ice Storage House south of Warehouse 109 this next week. The order for lumber has been placed in Salt Lake City and should be delivered soon.

Vitrous sewer tile has been received at the Project for Staff Dwellings and Schools and work will be started on the laying of the tile soon.


Henry R. Watson
Senior Engineer

HRW/mk

March 5, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
March 4, 1943

1. PERSONNEL

- a. Permanent - 16
- b. Temporary - 5
- c. Evacuees - 594
- d. Adequacy - Irrigation Section has made request for 12 additional men. These, with the landscape crew, should give us an adequate number of workers for the present
Construction Section is in need of more laborers for ditch digging and various jobs. More carpenters will be needed as soon as materials for new construction arrive. 12 plumbers are needed at once.

2. PROGRESS OF CURRENT WORK:

a. Construction Section

Work Completed during week:

Interior partitions Requested by Comm. Welfare	4 apts.
" " for Block #2	2 "
Sleds for Agriculture	5 ea.
Basketball Backstop for High School	100 %
Assembling CCC Garage Bldgs.	100 %
High School Library Shelves	42 sections
M. P. Coal Boxes	95 %
M. P. Garbage Rack	10 %
Hot & Cold Bed Combination for Agriculture	40 %
Reconditioning Kitchen Block #1	15 %
Staff Housing Carpenter work--4 bldgs.	15 %
Sewerage	70 %
Plumbing	2 %

Materials--sufficient carpenter & Plumbing tools have been requisitioned and I believe will have delivery before long.

b. Design Section:

Following up on missing requisitions and purchase orders, checking Regional Office Purchase Orders.

Estimating work is going on on the following:

- Community Center Building
- Staff Housing
- High School Wiring and Heating

Engineering Section is working on:

- Existing Topaz Sewer and Water Plan completed:

- Water estimate and design for Bldg. 204
- preparing designs for the following:

- Water system Bolin Ranch
- Vegetable Storage Refrigerated Warehouse
- High School Gymnasium drainage and water

Staff Housing water lines have been staked out.

Sewer lines for High School completely staked.

Have profile and staked out approximately half mile of dry slough for the operation of drag line.

Work is continuing on Staff Housing, i.e., detailed drawings:

- Staff Housing
- High School
- Community Government
- Miscellaneous Items Education

c. Irrigation & Roads Section:

The power shovel, arrived on the project the afternoon of March 1 and is now undergoing repairs before being put into use. Some parts are missing. As soon as the landscape crew is available we plan to begin work on the main ditches necessary to distribute water for irrigation in the city. The main ditch leading to the southeast corner of the fenced area and a ditch along the east and south fences will be roughed out by equipment, but work on the ditch banks and structures must be done by hand. Smaller ditches will be plowed out with a light plow and shaped by hand. To reduce the number of culverts under streets to a minimum, ditch banks in many places must be raised well above ground level.

Gravel was hauled to Blocks 1 and 2 and to the Post Office area to alleviate the muddy condition caused by recent storms. Gravel hauling was discontinued Thursday noon because of tractor trouble at the gravel pit. Several loads of concrete gravel were hauled to the Garage area on Wednesday, March 3.

Delivery of irrigation water to Section 15 was continued throughout the week. The bridge culvert between Sections 13 and 14 was completed. Three new head gates were installed in the Abraham Canal near the east boundary

of Section 14. Weeds and obstructions were cleared from the Abraham Canal through Section 13 preparatory for cleaning with tractor and grader. An old head gate, not used for several years, was removed from the Abraham Canal in Section 25 and transported to the Abraham Canal near the north boundary of Section 24 for installation. A large hole, in the Abraham Canal in Section 25, through which considerable water has been wasting into the tile drain, was repaired.

The patrol grader, operating throughout the week, maintained one mile of road between Sections 28 and 29 and two miles of road between Sections 22, 23 and 26, 27. The area south of the Public Works Office was leveled off to provide for four tennis courts. Block 1 was leveled and the major portion of the Elementary School Block 21 was leveled.

d. Electrical Section:

Work of relocating telephone trunk line is now completed with the exception of tying a few insulators which is only a matter of a few hours work.

Wiring of Staff Housing will be started Friday using materials from the maintenance stock on a loan basis to be paid when Staff Housing material is received. A plan is being worked out whereby one man, probably Mr. Onishi, will attend to the details of keeping this and certain other electrical work progressing along with other construction. It is thought that this is the better method of insuring that our work can progress along with other work without the necessity of Mr. Harmon handling each small details.

e. Sanitary Section:

Material is adequate to begin installing water still in dispensary. Regular inspections of water and sewerage tanks have been made, also septic tanks, sewer pumps and garbage disposal. Warehouse and Hospital were inspected, also Laundry at Hospital.

f. Maintenance & Operations Section:

Took over part of Motor Pool. Work has been progressing for the past few days in preparing Block 1 for incoming residents from Hawaii. A crew from each department has been assigned to make repairs and connections, janitors have been cleaning up, and all is expected to be ready.

Coal buckets have been issued to all residents, one to each apartment. Ironing boards are also being issued to residents.

Weeks production of Cabinet Shop is as follows:

- 19 desks of various sizes
- 1 elevated seat
- 4 spotlights
- 4 pigeon hole shelves
- 1 bookcase
- 1 two-decker letter tray
- 2 four-decker letter tray
- 1 desk filing tray
- 24 blackboards
- 2 bulletin boards

Routine work is being carried out by carpentry maintenance crew, painters and sign painters.

3. ADEQUACY OF SUPPLIED AND MATERIALS:

Materials urgently required at once for staff housing-- sheathing, electric wiring, outside rustic. High School requires timbers for framing.

The canal leading north from the Main Abraham Canal through Section 25 and delivering water to sections 24 and 14 has not yet been cleaned as we have been unable to get equipment to do the work.

Reference to the power shovel acquired March 1, some necessary parts, including the dragline cable, are missing and the machine cannot be put into operation as a dragline, until these parts are received.

It should be kept in mind that our electrical materials bought for maintenance purpose are being rapidly used up and there has not been a plan worked out which would conserve our present stock of material for use in more critical needs should we not be able to purchase any other materials of this type.

4. CURRENT PROBLEMS:

✓ It is suggested that there be a general order on work hours also a more uniform lunch and dinner hour in all Mess Halls.

5. RECOMMENDATIONS OR GENERAL SUGGESTIONS:

It is desired that a memorandum from Mr. Hughes or Mr. Ernst be issued to all Division and Section Heads to the effect that the Design Section will not and cannot accept any but approved directives for designing for individual groups. This means in all cases, prior to Design Section taking a job under its wing, it must be cleared through the Groups Division head and approved by the Senior Engineer.

7. FORECAST OF PROJECTED ACTIVITIES:

Irrigation Section:

- a. Continuation of canal and ditch cleaning
- b. Construction, repair and conditioning of irrigation structures
- c. Operation of drag line in various needed localities on the Project.
- d. Graveling of roads, street walks, etc.
- e. Delivery of irrigation water to fields designated by the Agriculture Division
- f. Leveling of blocks with patrol grader
- g. Installing of signs at street intersections etc. about Topaz City, as worked out in conjunction with the Internal Security Division.

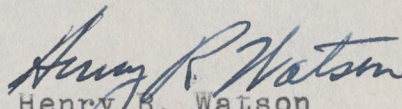
Electrical Section:

Construction of the electrical installations for Schools and Staff Housing is our most important plan for the immediate future. Electrical material for the School is being delivered to the project in good time and indications are that this phase of the construction program can be carried on according to schedule.

Design Section:

Approximately 20 drawings are being sent to Salt Lake for printing and reductions for PD-200 applications. In this group will also be included completed details and drawings for Charles F. Ernst's apartment Bldg. 204.

Surveying group will continue profile of dry slough to point where water will carry itself freely. They are at the present time split into two groups through lack of sufficient field crew wherein two are assigned directly to construction for their assistance, another group of two will be assigned in the future to the Irrigation Section for assistance in straightening out and leveling ditches, canals, etc.


Henry R. Watson

March 12, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday
March 11, 1943

1. PERSONNEL:

- a. Permanent - 18
- b. Temporary - 4
- c. Evacuees - ✓
- d. Adequacy - Plumber Foreman needed for Maintenance and Operations. Request for evacuee workers for Irrigation and Drainage has been placed with Placement Office, with no results as yet. Three stakemen and 1 experienced architect draftsman are needed for the Design Section.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Work is going forward for wiring in Staff Housing, but we are forced to use materials borrowed from school construction stock pending arrival of electrical materials for Staff Housing installations. All of the wiring with the exception of range wiring is well ahead of the other construction program. Range wiring can be installed from under the floor at anytime prior to the time skirting is put around the bottom of the buildings.

Transformers for lighting service only for the Staff Housing have been received on the project but there is no provision made as yet for the electric ranges now in the Delta warehouse. It will be necessary to secure much greater transformer capacity and also additional line construction material before the ranges can be put in service. Effort is being made to secure WPB approval for the purchase of the additional transformers and other materials.

Mr. Paul H. Hupp, Refrigeration Engineer, from Salt Lake City who is factory representative for the Baker Ice Machine Co. spent Tuesday and Wednesday of this week at the Project assisting the plans for future refrigeration in the Commissary Warehouse and also assisted in our procurement of emergency stock of refrigeration maintenance materials. Requisition was submitted through the Procurement Division

and purchase order issued for a list of the more necessary maintenance requirements. Mr. Hupp gave us some very good suggestions on future installations as well as care and proper operation of present refrigeration equipment within the project. He rendered us considerable service while here.

b. Design Section:

1. Gas Service Station drawings are completed. Preparation is being made for relocation of present office.
2. Community Government Building is complete. Preparation for PD-200's nearly complete.
3. Refrigeration Warehouse being worked on for mechanical equipment.
4. Drawings for floor covering for hospital and office are completed; ready for workers.
5. Carpenter, Plumbing and Electrical Shop has been relocated to a position west of Warehouse 102.
6. Have completed and submitted drawings for fire truck.
7. Work has progressed on wiring design of Gymnasium interior.
8. Bolin Ranch Water System, design requiring additional information.
9. High School Gymnasium, Drainage and plumbing system, details being checked.
10. Drawings of building 204 now complete and now in hands of workers.

The following items are being worked on for preparation of requisitions for purchase:

1. Gas Service Station
2. Carpenter, plumbing and electrical shop
3. Hog and Poultry Farm
4. Have rechecked needed insulation for ceilings in Staff Housing drawings and it has been found that it is necessary to order additional materials. Requisition to follow.
5. Have checked up on outside sewer hook up for High School. Requisition forwarded for needed parts.

c. Construction Section:

	Comp.
1. M.P. Coal Bins, installed and painted	100%
2. M.P. Garbage racks " " "	100%
3. Two hot and cold beds for Agriculture	100%
4. Installing Airdraulic Lift at Garage	10%
5. Concrete slabs in CCC bldg. " "	100%
6. Shed at Hospital for Compressor.	95%
(Electric wiring to be completed)	
7. Reconditioning Kitchen No. 1	50%
(Plumbing work must be completed before progressing further)	
8. Res. partitions 10-4-B; 38-3-E; 40-4-C; 10-12-E; 38-5-E.	100%
9. Partitions in Rec. 37	100%
10. 5 room partitions in Rec. #23	95%
(All completed except painting of doors)	
11. 2 hog sheds with CCC panels	25%
12. Partitions in Rec. #33	50%
13. STAFF HOUSING. Framing. Bldg. 210	100%
	209 90%
	204 40%
	206 80%
	212 10%
	213 10%
Interior finish 210	20%
Sewerage	95%
Rough Plumbing 210	50%
Electric Wiring 210	70%

d. Irrigation and Conservation Section:

New head gates were installed in the Abraham Canal at the Center south boundary of Section 24, the southeast quarter of Section 13 and near the north center of Section 24. New gates were also started in the Abraham Canal in the south west quarter of Section 13.

The Abraham Canal running north through Sections 24, 25, 13 was cleaned with tractor and grader hired from Neutch Bros. The large ditch paralleling the south boundary of Section 21 and 22 which will bring water into Topaz City was also cleaned. A new ditch running along the east boundary of Topaz City was constructed, also a new ditch was constructed running west from the Abraham Canal along the south boundary of Section 14 to the section line. About 3/4 of a mile of the Abraham Canal was cleaned in Section 14

The patrol grader leveled blocks 21, 32, 38, 39 and 40.

Irrigation water was delivered continuously to the barley fields in Section 24.

e. Sanitation Section:

Vacuum pumps in the Hospital Heating System were repaired. Inspection tour with Mr. Hansen of the Utah State Board of Health was made in conjunction with this department. Inspections of the chlorinator were made and orthotolidins were unsatisfactory. Sanitary Engineer supervised the installation of the formula kitchen in the Hospital Ward Building No. 313. Regular inspection of sewage pumps were made.

A Wallace and Tieman Comparator was received this week from the U. S. Engineers. Regular inspections of Water Pumps and the Viking Sprinkler were made. Sanitary Engineer supervised the installation of the air compressor for the Dental Laboratory.

f. Maintenance and Operations Section:

All crews engaged in repair work or routine duties for general maintenance, with the exception of the shops, and they are engaged in various crafts as tin work, cabinet shop, painting, etc.

During past week Carpentry Maintenance Crew has repaired the following:

- Thirty Doors
- Ten Rim Locks
- Three Blocks--tarpaper
- Four Window Frames

Installed the following:

- Two Cabinets-Block 2-Rec. and Laundry
- Additional Brackets on Existing Shelves
- Brace Existing Table

Painters have completed the following:

- Book Shelves for Education
- 34-7-D Walls and Woodwork
- 3-9-C Walls and Woodwork
- Coal Boxes
- Pump Shelter at Hospital
- Men's Latrine Block 2
- Two Cabinets Block 2 Rec & Laundry
- Started Basketball Backboards

More sign orders can be handled by the Cabinet Shop at this time. Following items produced by Cabinet Shop during week:

- Fifteen Tables
- Four Pigeon Hole Files
- One Elevated Seat
- Four Spotlights
- Three Bookcases
- Sixty-eight strainers

Sixty Letter Trays
Twelve Circle Blocks for Clocks
One Desk Filing Tray
Frames w/tarpaper-fifty
Two screen frames
Two bulletin boards
Two map frames

Repaired:

Six Chairs

Ripped:

Ripped and planed lumber for Public Works

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Lumber is getting low in the Maintenance Section Cabinet Shop.

Requisitions are being placed for maintenance and construction materials for electrical needs for the next six months and particularly for a supply of pole line hardware which can be purchased up to \$150 under our present priority rating. This list will be completed at the earliest possible date and proper requisitions submitted.

WPB has not given approval for the purchase of wire and transformers to install the 53 electric ranges in the Staff Dwellings. All the lumber has been purchased and delivery is not expected for 30 to 60 days for the High School and Staff Dwellings. Until such time as the lumber arrives, construction can only proceed to a certain point.

4. GENERAL COMMENTS:

The construction of the Administrative Dwellings is progressing slowly due to the lack of materials. We are proceeding as fast as possible with materials on hand and carrying each building as far as possible towards completion.

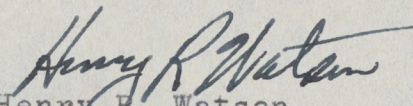
It is very important that WPB allocate the priorities for hardware for the High School auditorium. Unless this hardware is purchased, the complete building will have to be redesigned, and this will require reordering of lumber which will make it impossible to complete the construction this summer.

5. PROJECTED ACTIVITIES:

Work is continuing for detailed construction items and it is believed that all details for Staff Housing will be completed by next Wednesday.

Work was started on digging sewer lines for High School. Sewer pipe is expected within a few days. Mr. Hopkins will be foreman in charge of High School work. He will start with crew next Monday on foundation of Auditorium. To date, heavy timbers for this job have not arrived.

Work on Staff Housing is going ahead with limited materials we have received and what can be borrowed from M & O. We are expecting a group of school boys to help on this job each Saturday. It has been arranged for special supervision for the boys, and I believe we can obtain good results.


Henry R. Watson

mk

6. CURRENT PROBLEMS FOR THE DIRECTOR'S CONSIDERATION:

✓ We have repeatedly requisitioned lumber from the Procurement Division and have located lumber which can be purchased without priorities. We have at the present time ample priorities to purchase lumber but have been unable to get delivery of sufficient lumber for construction through the local markets. The only purchase orders which we have seen are those which have been issued to Richfield on which complete delivery was not made.

✓ The Public Works Division about a month ago lined up and turned over to Procurement for handling, several WPA buildings that were available for purchase and these are needed badly for office and storage space at our Project.

March 19, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
March 18, 1943.

1. NUMBER OF PERSONNEL EMPLOYED:

- a. Permanent - 19
- b. Temporary - 4
- c. Evacuees - 617
- d. Adequacy -

A plumber foreman is still needed for the Maintenance and Operations Section. The Division as a whole is receiving men from the Hawaiian group. By discontinuing the night stove firemen, we will add a few more men to our construction crews.

The Design Section is in need of one architect draftsman.

Mr. Waldo Warnick of Delta reported to work as Senior Electrician on a thirty day temporary appointment.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Work on wiring Staff Housing is in progress and is well ahead of the carpenters' work. Work is progressing on installing steps on Flood Light Poles.

Plans are being made for installing a water tank alarm system. Transformer replacements were placed where needed.

b. Design Section:

Survey crew is engaged in making topographic survey of Sections 13 and 23, profile of the irrigation ditch along the east boundary of Topaz City--both ditch bottom and top of bank. Line was laid and elevations taken for the purpose of establishing a ditch to Block 42 from above mentioned ditch. Work on Staff Housing has continued with two men continually assigned--assignment also covers high school.

Drafting section progressing per schedule on the following drawings:

- a. Staff Housing
- b. High School
- c. Miscellaneous Minor Construction for C. A.
- d. Addition to Refrigerated Warehouse
- e. Service Station
- f. Roof Vent for Boiler House
- g. Office Partitions for Administration Shop
- h. Screen for Garbage Platform

Completed the following:

- a. Community Government Building
- b. Mail Box for Block Managers
- c. Hoist for Motor Repairs

Engineering Section are working on the following:

- a. Existing Topaz Sewer and Water Plan
- b. Service Station plumbing Design
- c. Bolin Ranch water system design
- d. Carpenter Shop electrical design

Completed: Service Station interior wiring design

Estimating Section: following re-estimates for requisitions:

- a. Bake Shop
- b. Service Gas Station
- c. Poultry Farm
- d. Carpenter, Electric, Plumbing Shop

c. Construction Section:

The past week's construction has been:

- a. framing of staff houses, sewer and plumbing
- b. re-building kitchen and bldg. 12, Block 1,
Rec. hall 30 and 33
- c. Hog houses
- d. Hot beds
- e. Garage alterations
- f. Foundation frames for High school footings

Plus many small jobs.

d. Maintenance Section:

Started riveting of all stove pipe joints located in the warehouse and garage areas, and Dining Hall #1

where the stove pipe is not insulated with the terra cotta insulation. This was undertaken because the stove pipe is collapsing under heat at the joint where the stove pipe passes over the ceiling onto the roof. It will be riveted together as one piece.

A small fire started in Warehouse 101 yesterday, but was extinguished by the Cabinet Shop employees before great damage was done.

Many cracks in the pipe line have been repaired. Plumbers have been busy in Block 28 due to the sand condition. Repairs are being made on laundry trays. The work is still in the experimental stage as the maker of the Eagle laundry trays offered no recommendation as to any successful repair procedure. At this time, all Eagle laundry trays, numbering 12, are cracked in Block 1. Signs were placed in the laundry room Block 1 before arrival of new residents and we were informed that they did observe the rules and used cold water in the trays before adding the hot. The 5 trays manufactured under the Chicago Granite Manufacturing Company's formula are not cracked, and they have been treated in the same manner.

e. Irrigation & Conservation Section:

The contour map of the city has not proved very accurate so far and we will have test levels and profiles run to make sure that plans being developed for distributing irrigation water through the city can be carried out. No conduits have yet been laid under the streets. Since the dragline is not in operating condition, we will attempt to clean out the open drain and place the concrete culvert pipe at the washout near the southeast corner of Section 10 with hand labor. We may be able to do some excavating with slip scrapers drawn by teams or Fordson tractors.

Plans are to be made in the near future for draining the sewer pond and will be submitted for approval.

New gates were installed in the Abraham canal in the southwest quarter of Section 13 and at the southeast corner of Section 15. The Abraham Canal was cleaned through Sections 14, 23 and 26 with tractor and grader hired from Mr. Nutsch. The washed out section of the ditch at the southeast corner of Section 10 was repaired with Mr. Nutsch's tractor and work commenced on the ditch change at the hog ranch in Section 10.

Installation of tile was started in the drain at the southwest corner of Section 22 to provide suitable crossing for the ditch leading into Topaz. A section of oil surfaced road at the southeast corner of Block 16 was repaired. Water from the broken water main at the High School block had caused the fill over the sewer line to settle beneath the oil surfacing, thus allowing the oil to break through.

The patrol grader developed injection valve trouble which retarded the leveling program within the blocks. Blocks 40, 41 and 42 were leveled. Water was delivered to fields in Sections 24 and 32 in township 16 south and to Section 3 in township 17 south.

f. Sanitary Section:

Inspections throughout the week on the following: sewage system, creamery in Delta, sprinkler system in the Hospital with Major Smith and Captain Dyer, final tests of sprinkler system and put in operation, sewer and water pumps, boiler room, heating system at the Hospital, and Laundry.

Ran orthotolidin tests throughout the entire city. We are now using 5 gallons of Wasacolor to 25 gallons of water and are unable to get more than 0.05 Chlorine content at any point we test.

Forced to shut down the south boiler as part of arch (brick) buckled and dropped down on grate bars. Conducted tour of the Water system, sewage pumps, boiler room, laundry and hospital accompanied by Messrs. DeLapp, Hopkins, Lee, Greaves, Davies and Harmon. The purpose of the tour was to acquaint the appointed personnel of the Public Works with the water and sewage systems for emergency.

Arranged and laid out some maintenance work in Morgue building.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

This week several carloads of building materials have arrived, so that we can now go ahead with some additional work on the High School and Staff Dwellings, but much vital material is needed yet.

The Army Engineers installed a temporary chlorination system at the Project upon which we have been operating up to the

present time. This requires a dry compound known as HTH of which all the available supply is being shipped overseas for chlorination of water for the Army. The substitute solution we are using is Wasaclor, a chemical compound which we are injecting into the system for chlorination purposes. Under the use of this Wasa clor, it has been difficult to get bacteria-free tests on our reports. However, the reports returned although show presence of germs, have never been of sufficient quantity that a count could be made. In the event that a count of a dangerous nature appears on the report, we are immediately notified by telephone or wire from the State Department of Health. So far all our reports have been fairly satisfactory although showing presence of bacteria.

During the past week in an effort to improve our water analysis reports, we have been using 5 gallons of Wasaclor for every 25 gallons of water or a 2 per cent solution. It was understood from the Army Engineers that the permanent chlorinating system to be installed requires HTH compound, however, we were misinformed on this and the permanent system which they are installing requires chlorine. Priority and assistance was asked to supply HTH compound for which exchange will have to be made so we can secure chlorine for water chlorination. It is very unlikely that we will receive any priority to secure HTH compound and what Wasaclor we have been able to secure is being rapidly used up. It will be necessary now to secure chlorine for our chlorinating system and steps are being taken to secure this chlorine.

Mr. Alan Laflin on his recent visit here reported that at another Project where they had basketball standards installed similar to the structures we have here, a Colonel on a visit saw them and when they approached him for additional lumber to complete more of the work, said they should take the lumber from these basketball standards and they would have sufficient material for their construction.

✓ We realize the necessity for physical activities which can be exerted through basketball, however, it is felt that these elaborate structures are not definitely necessary and that a structure similar to the ones constructed by the Public Works for the Fire Department is justifiable and will serve the purposes for average outdoor basket ball entertainment. We should like to have permission to reconstruct the large basketball standards and replace them by more simple practical standards which can be amply justifiable.

4. CURRENT PROBLEMS:

In order to efficiently carry out our construction program, of high school and administrative dwellings, we must control the small jobs which break into the construction crew. It has been necessary to call crews on construction off repeatedly for small emergencies such as partitions and other types of construction as well as to unload lumber. This has materially retarded our construction program. We should like to lend every effort on our construction crew to the completion of the administrative dwellings and high school auditorium as soon as possible. Lumber for this construction is arriving daily at the Project and we anticipate to show some good progress providing we can retard small jobs which break into the construction crews.

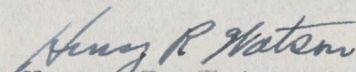
The new schedule which allows for the 15-minute break between close of work and time mess halls open is not working out to satisfaction. In order to carry out efficient construction operations it is necessary that we have our men on duty at least 8 hours per day. We must have the cooperation of the dining halls so that these halls do not open until the scheduled time and we also must have the cooperation of the time keeping department which we have requested to dock these men for the hours which they are not on duty. We believe that with the cooperation of these two sections and with the determined effort of our foremen to keep these men on the job, an 8 hour day can result.

7. FORECAST OF PROJECTED ACTIVITIES:

- a. Continuation of canal and ditch cleaning.
- b. Construction, repair and conditioning of irrigation structures.
- c. Conditioning of drag-line preparatory for outlined work.
- d. Hauling gravel for concrete, etc.
- e. Delivery of irrigation water to fields designated by Agricultural Division.
- f. Leveling of blocks with patrol grader.
- g. Installation of signs at street intersections etc. about Topaz.

Work will be continued in working with the irrigation section in the layout of the city irrigation system.

Similarly the topographic survey of the project area will continue until finished.


Henry R. Watson

RAB

March 26, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending Thursday,
March 25, 1943

1. PERSONNEL EMPLOYED:

- a. Permanent - 18
- b. Temporary - 7
- c. Evacuees - 611
- d. Adequacy - Need trainees for all groups.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Eight of the electric refrigerators provided for use in staff dwellings have been installed for those members of the WRA who have large families and who reside within the area.

The lighting service transformer serving Block 26 failed on March 17 and was replaced by one of the transformers furnished by the WRA for use in the staff housing group. Examination revealed that one of the high tension bushings on the transformer had been broken and moisture from the slight storm caused a flash over to the transformer casing blowing the fuses. This bushing was probably broken at the time the transformer was first installed. However, there is no proof of this except the fact that the bushing appears to have been broken for quite some time.

The ten KVA transformer which burned out at No. 6 Well has been taken in to Salt Lake City by Mr. Shaw of the Army Engineers for repair, and replacement will probably be made. A new transformer for this bank was furnished by the U. S. Engineers and installed on March 13.

Information is being sought as to the most practical and trouble free hook-up for 3 phase transformer bank operating on a star connected primary circuit such as we are using here at Topaz, and every effort will be made to accomplish the most practical installation possible. It is noted that the transformer bank at the Sewer Pump is not connected in the same manner as those at the Water Pumps but before any changes are attempted full information will be sought as to the inherent characteristics of the trans-

former hook-ups operating on similar voltage. A further report on this problem will be furnished later.

Steps have been installed in all the poles carrying flood lights around the Topaz area to facilitate servicing these lights. These pole steps should aid greatly in maintaining service on the flood light system.

A representative of the Lang Company and the Frick Refrigeration Company is at the project today and went over the present Commissary refrigeration equipment as well as the proposed addition to the vegetable coolers and furnished us with valuable suggestions and advice on our future needs. Plans and data are being assembled for the design of these improvements and will be submitted for approval.

Various types of installations are being investigated with the view to selecting the most suitable system, economical and otherwise.

b. Design Section:

CMP Forms were received Monday for practically all approved P19h to be submitted to our Washington Office by March 29. Work is progressing as rapidly as possible on these forms but will not be able to complete desired work in the time limited. Each portion will go to Washington as completed and it is expected that we will have all these completed by the twenty-ninth.

Requisitions were prepared for all jugs and spigots and various construction items that have just been received as approved from Washington.

The following estimate on designs are being prepared:

- Service Station Plumbing
- High School Gym, Hot and Cold Water Plan
- Carpenter, Plumbing and Electrical Shop
- High School Gym Interior Wiring

The Surveying Party is running the profiles and contours of the city proper, Sections 13 and 14, auditorium and staff housing.

Present architectural work is progressing rapidly as possible on the following:

- Detail on Staff Housing
- Supplementary work and revision of High School
- Minor Construction of Community Activities
- Refrigerated Warehouse Space
- Detailing of Service Station

Garbage Platform
Detailing Bakery
New Toilets in Warehouse Area
High School Auditorium

c. Maintenance Section:

Newly organized coal crew makes a daily delivery of slack coal to the hospital boiler room. The tonnage delivered daily varies from eleven tons to fifteen tons, as there must be at least forty tons in the coal tank at all times.

An inspection was made of the repaired laundry trays and the repairs look successful. The Eagle Tray Co. of San Bruno, Calif. had offered no remedy for the leaking tubs, so we are very happy with the results of the repair crew's labor.

Stove firemen, forty-nine in number are to be terminated so they could be available to other work projects. About 95% of them are old men and are having a hard time making up their minds as to which division they would like to go into. All W.R.A. property that had been in the stovemen's hands, have been checked into the warehouse again.

Our coal and labor crew numbering over 50 men have volunteered to help with the unloading of lumber coming in from Delta. Block managers were asked for the service men's help to help deliver coal to the blocks.

The following were constructed at the Cabinet Shop during the past week:

6 lockers	26 bookcases
6 tables	7 cabinets
2 ladders	19 toilet paper holders
1 desk file	6 sets of toy shelves
1 counter	33 mail boxes

Repaired: 6 chairs
 1 wheelchair

Under construction:

blue print frame & stand
Topaz art school order
1 file box, 1 bookcase--Mr. Ernst
balance of Mr. Noble's order
louvre's will be started Friday

Starting in the morning the mail boxes will be installed for the Block Managers.

The following list were either repaired, adjusted, or constructed by the Carpentry Maintenance Crew during the past week:

6 walls	2 ceilings
10 rim locks	2 window frames
14 doors	1 strong box
1 clothes line	4 roof jacks
1 screen	2 roofs
Removed terra cotta pipe	
Floors where partitions were removed	
Toilet paper holders	
Cut hole for vents	

d. Construction Section:

Work in Block #1 Mess Hall and Bldg. 12	90%
Garage floors and racks	95%
Clotheslines in Block	25%
Hospital ramps and Pharmacy alterations	100%
Rec. Hall Block 38	100%
Foundation blocks High School	10%
Staff Housing	6%

This week with better weather, there seems to be an improvement in results of various crews. With additional caucasian carpenters, it is believed still better results can be had. Many of the small jobs that have been done by construction crews will be handled by Maintenance and Operation carpenter crews.

e. Irrigation and Conservation Section:

Progress of current work was good. New head gates were installed at the southeast corner of Topaz and at the southeast corner of the southwest quarter of Section 22. Head gates were repaired on the Abraham Canal where it crosses from Section 34 to 27. The concrete head gate in the Abraham Canal, Section 14, were raised and additional six inches and canal banks were raised to correspond.

Tiles were placed in the drain at the southwest corner of Section 22 preparatory for fill material and ditch for water coming into Topaz. Water was delivered to various fields as directed by the Agricultural Division. Work commenced on the placing of 36 inch tile in C drain at the southeast corner of Section 10. Sixty by thirty-six inch tile were delivered to the job ready for installation.

Weeks were burned from the ditch extending from the southeast corner of Section 34 to the Abraham Canal. Patrol Grader leveled in Blocks 1, 8 and 12. Ditch banks were strengthened along the ditch paralleling the east boundary of Topaz. The patrol grader developed clutch trouble Monday, March 22, necessitating discontinuance of work until a new clutch plate can be secured and installed.

New cable arrived for the drag line and was placed on machine ready for use. With the arrival of a fair lead the dragline will be ready for operation. The conveyor loader was placed on condition for work with the exception of drive belts and conveyer belt.

Ditch cleaning continued on the main Topaz irrigation ditch. Work commenced on installation of a tile culvert under the road at the south Military Police Area gate.

The Agricultural Division's landscape crew are still working on the ditch system for the city. Progress has been slow on this work due to lack of equipment, but we are putting substitute equipment, such as road plows and home-made ditchers to work and hope for better progress.

The three men making ground water test wells report 41 wells completed to date.

The Agricultural Division has supplied us with two Fordson tractors. We are using these in cleaning old ditches and constructing new ones.

f. Sanitation Section:

Carpenter started work on remodeling Dental Laboratory. Electricians installed lights in Vacuum Pump Houses. Chlorinator is 95% installed. Troy Engine was changed in Boiler House. Flushometers were cleaned in M. P. Area. Cold radiator in Surgery repaired. Supervision of janitors in Hospital was taken over by the Sanitation Section. Arranged with Mr. Taylor to have his department enlarge Pharmacy.

Ran orthotolodin tests in Blocks 2300 and 4600. Water samples taken. Ran temperature test on Well No. 4 and Well No. 5.

Inspected Mess Halls in Blocks 2100, 4200 and 6700. Inspected Commissary Meat Shop and recommend screen doors and removal of open latrine from Warehouse District; also inspected laundry, boiler and hospital, water and sewer systems, septic tanks, boiler room.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Design Section is in dire need of completion of order placed for three months' supply. We are at present running short of stake, lumber crayon, blueprint and tracing paper. If we are able to obtain trainees it will be necessary to have additional space and additional work tables.

Electrical Section: Arrangements have been made whereby a stock of fuses can be secured for all of our needs at the project and purchase made without priority based on factory shipments and deliveries when local stock will permit. We expect to have a complete stock of all types and sizes of our needs within approximately 30 days.

Thesupplies and materials for staff housing and schools are beginning to arrive at the Project. The lumber for staff housing is adequate at the present time. We are somewhat handicapped with the plumbing and electrical supplies but will be able to proceed with construction to a certain point without this other material. WPB in Washington has approved the hardware for the high school auditorium and requisitions for the purchase of this material is being prepared. The WPB has also approved the additional electric lights connecting utilities to wire staff housing stoves and refrigerators.

Although elementary schools have been cancelled much of the material which was ordered for the elementary schools has arrived at the Project and this is to be used only on approved construction and records as to their use must be maintained for future examination by the WPB.

Through negotiations of the Senior Engineer and the U. S. Army Engineers we have secured 5 carloads of scrap wood from the Small Arms Plant in Salt Lake and are now negotiating for scrap wood from the U. S. Army Engineers at Hillfield.

4. CURRENT PROBLEMS WHICH THE DIRECTOR SHOULD CONSIDER:

Additional men are needed urgently in the construction program. We have need for 50 to 100 men as our program is enlarging in order to take care of staff housing, schools and other approved projects.

The Public Works Division should like to request the other divisions to retard and curtail all requisitions for small remodeling or new construction jobs so that the entire crew can be maintained continuously on construction we may finish our construction program as rapidly as possible.

We should like to have the director consider means of rewarding good workers, the men who produce on the job, to stimulate more interest and encourage better production in all organizations. The danger of the lazy attitude that is being taken among most of the Japanese on the Project is more complex and hazardous than they may realize. It seems that if Division Heads or an Independent Board such as the merit rating board could authorize and ~~curtail~~ ^{bestow} special privileges such as shopping in Delta or special educational trips to be reserved only for efficient and true workers. It may be

A means of stimulating all residents into a state of mind of efficiency and productiveness which existed prior to evacuation.

Several articles on the high school construction have been written for the Topaz Times but never published. We should like to keep the Public informed, and the high school construction progress before the residents eyes at all times. It is very desirous, therefore, that a reporter be assigned to the Public Works Division as this service has been missed.

7. FORECAST OF PROJECTED ACTIVITIES:

We will prepare estimates and drawings etc. for revamping of Elementary School and partitions for evacuees' houses, revamping of present refrigeration house, studying needs of office space and will continue to prepare additional requisitions for material on approved PD-2001.

Alteration in the substation fence is contemplated, and Lt. Miller has expressed his approval of the construction of a gate which would make the substation accessible from within the area as well as from outside the fence. The only provision imposed by Lt. Miller is that we place locks on both the gate and the main switch in the substation and supply the Military Police with keys to these locks and also state in writing who will be allowed access to the keys retained by the WRA. This arrangement seems very satisfactory and will aid us greatly in keeping power interruptions to a minimum as well as facilitate service work and safe guard life and property in case of emergency.

- a. Continuation of canal and ditch cleaning.
- b. Construction, repair and conditioning of irrigation structure.
- c. Operation of drag line at various needed localities.
- d. Hauling grave 1 for concrete etc.
- e. Delivery of irrigation water.

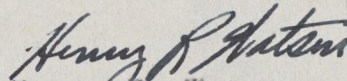
As soon as the dragline is in working condition it is planned to begin construction on the proposed sewer disposal ditch. The dragline will then be used in cleaning drains and providing adequate outlets.

Three new ditches are proposed for construction

- (1) connecting the Wilson canal and Delta canal along the east boundary of Section 12.
- (2) Leading from the Wilson canal into the northeast quarter of Section 14
- (3) Rearrangement along the east boundary of Section 27.

Several large repair jobs on old ditches are in our plans for the next few weeks.

The construction of the new sewage disposal system will start Monday. This will lead the sewer entirely away from the City of Topaz to eliminate the undesirable stinch and mosquitos. Irrigation system for the City is progressing and is hampered largely by the lack of men. We plan to lay foundations for the new staff dwellings nextweek, construct the piers for the high school auditorium.


Henry R. Watson

HRW/mk

April 2, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending Thursday,
April 2, 1943.

1. PERSONNEL EMPLOYED:

- a. Permanent - 18
- b. Temporary - 10
- c. Evacuee - 771
- d. Adequacy - More men are needed on the Topaz irrigation system.
100 or more men could be used on new construction.
Since no more draftsmen are available it will be necessary to train new men to help with the anticipated rush as we have approval on many buildings.

2. PROGRESS OF CURRENT WORK:

a. Design Section:

Survey crew is working on giving elevations for the foundation piers of the high school. Work has begun on the setting of a system of secondary bench marks throughout the project area. Line and levels for an irrigation ditch connecting the Wilson canal to Section 14 was staked out. Topographic survey of Section 13 has been completed and data is now in the hands of the draftsmen for platting. Similar work has been started on Section 12.

Drafting section is progressing per schedule on the following drawings:

- a. Staff Housing
- b. High School
- c. Miscellaneous Minor Construction for Community Activities and Education
- d. Additional Refrigerated Warehouse Space
- e. Service Station
- f. Bakery
- g. Poultry Farm
- h. New Toilets in Warehouse 103

Completed the following:

Elementary School Revisions (For PD-200)

Engineering Section now working on the following:

- a. Service Station Plumbing Design
- b. High School Gymnasium Hot and Cold Water and Drainage Plan
- c. New Vegetable Storage Refrigerated Warehouse refrigeration design.
- d. High School Gymnasium interior wiring plan.

Completed the following:

Existing Sewer and Water Plan

Estimates now in progress:

- a. Complete High School buildings
- b. Segregation of High School and Elementary School Materials

Estimates completed:

- a. Estimate for alterations of Block 32 for school.

C.M.P. Forms were completed for the following projects:

- a. Hog and Poultry Farm
- b. Carpenter, Plumbing and Electrical Shop
- c. Gas Service Station
- d. Bake Shop
- e. Automotive and Heavy Equipment Shop
- f. Irrigation and Drainage
- g. Root Cellar

b. Electrical Section:

Wiring of Staff Housing will be resumed today, using material borrowed from School construction. It is understood that shipment of electrical material for lighting installations was shipped from the Pacific Coast on March 25.

Thought is being given to the possibility of reducing our cost of electrical power through reduction of the peak load on the system. There is a possibility that noticeable results may be obtained by shutting off the water pumps during the hours of highest peak. It is not possible to say whether this plan is practical until all angles have been investigated.

The Volt-Ammeter purchased by the Army Engineers has been

delivered to the project, and we are using this instrument on a loan basis. It will prove very valuable in our analyses of power consumption and loads. Some plan will be worked out for our permanent acquisition of this meter.

A gate has been installed in the enclosure fence to make the substation accessible from within the area without the necessity of checking out through the Gate Houses. This should prove of great value in case of emergency line repairs. The gate as well as the substation switch has been locked and a key furnished to the Military Police for their use in case of a black-out.

c. Construction Section:

Construction completed:

Floors and bins, Garage-95%, Building 12, Block 1 90%, Hospital remodeling-90%, Staff Housing-8%, High School--working on foundation piers and sewer trenches.

In an effort to expedite the construction work and to assist in the more complete training of the resident carpenters we consider it advisable to hire Caucasian carpenters on a 30-day appointment basis to work as working foremen with the resident carpenters. This experiment has proven very satisfactory and the resident carpenters have cooperated to the fullest extent to acquire additional knowledge and skills from these Caucasian carpenters employed.

We have asked Washington to allow us to employ five permanent carpenters for the duration of construction and this would highly facilitate our work based on the experiment of the past week. It is estimated that the construction progress has improved by about 30 to 40 per cent over preceding weeks which in a large part can be attributed to the experienced men working as foremen with the resident carpenters. This experiment has proven so worthwhile that we should like to employ additional men and cut the employment of temporary caucasian carpenters until such time as approval is granted from Washington for the permanent positions. Because of our expanding program, it is going to be necessary to have this addition of caucasian carpenters who can supervise other construction jobs.

The plans for next week are to start construction of poultry houses for the chicks. However, the main activities of our construction work will be confined for the present at least to the Staff Housing and Schools.

d. Irrigation Section:

Current work progressed as scheduled. Three new head gates were installed in the Topaz irrigation system. A new bridge was constructed at the hog farm in Section 10. The installation of 36 inch tile in C drain at the southeast corner of Section 10 was completed.

Weeds were burned from approximately 4 miles of canal and ditch banks. A tile culvert was installed at the gate south of the Military Police area.

A section of new ditch was constructed along the east boundary of Section 27 which will shorten considerably the distance necessary to run water to irrigate the north half of the SE quarter and the S half of NE quarter of Section 27.

Two new sets of head gates were started in the ditch paralleling the south boundary of Section 22. A new bridge was started at the road crossing at the southeast corner of Topaz. Irrigation water was delivered to Section 3: T. 17S and to Sections 27, 24 and 15 in T. 16S.

The dragline was moved to the lower end of the new sewer disposal drain preparatory for work as soon as the fair lead can be located and transported to the Project.

A portion of one crew started hauling rock, gravel etc. to sights of pending construction. The Agricultural Division's landscape crew is still working on the ditch system for the city. Progress is slow, as much of the work must be done by hand. The area south of the hospital cannot be properly ditched and watered until considerable leveling is accomplished.

The crew making ground water test wells completed eight wells since last weeks report. They have also collected samples of irrigation ditch water and drainage ditch water taken at designated locations for testing.

e. Maintenance & Operations Section:

Maintenance crew has been enlarged to seven more men, and these new men will cover one entire block, making repairs on rim locks, hinges, doors, windows, center strips on double doors and any minor repairs that they may encounter. As soon as one block ^{has been} they will repeat the procedure until the entire camp is covered.

Painters started on the Staff Dwellings on March 31, 1943.

Per-fa-tape is being applied to all existing cracks in the surgery rooms at the Hospital. Sign Painter is now at the Hospital numbering and lettering the wards for fire protection purposes.

The Cabinet Shop Crew produced the following items during the past week:

1-pigeon hole shelf	1-blue print frame
1-drawing compartment	1-blue print frame stand
1-counter	1-box and rack for surveyors
1-gate	2-file boxes
1-bookcase	12-tables
6-drafting boards	12-benches
2-cutting boards	4-thresholds
Repaired: seven chairs	
Started: louvres today and are working on all typist desk orders.	

Construction has started on additional needed shelving to accommodate stove parts and other supplies and materials needed in the division. These will assist in maintaining a better arrangement as well as expediting fulfillment of orders placed at the warehouse.

A vat for refining grease that is being gathered from the various kitchens by the Sanitation Crew is nearing completion. The idea for the construction of this unit was recommended by Mr. T. Inouye, cook in the sandwich kitchen. In using water which has a tendency to collect the grease the impurities, the product would come out to be much cleaner and whiter. This work is necessary due to the fact that much of the grease picked up from the kitchens has particles of meat, oleomargarine, bone, etc. mixed in with it.

Seven stove firemen have been placed on the carpentry crew and will remain in the blocks and systematically make minor repairs with a thorough check of each unit. This should result in less complaints as a good many repairs will be made before too serious, such as; loss of door knobs, door knob screws, faucet handle screws, etc., which will be hard to replace due to the fact that they come in various sizes and different threads.

The emergency lumber crew for unloading is made up partly of coal men, labor men, and lumber yard men--they are doing their work in the manner we consider commendable. We are receiving cooperation from the Block Servicemen, as 10 are reporting to fill in and handle the coal that is necessary to go out each day as well as trucks that come in to be unloaded.

A storage place for janitorial supplies has been requested. The janitors feel that a cabinet or cupboard should be placed in the laundry rooms where the brooms and mops can be kept since losses have been experienced. We think this should be given serious consideration--space of 4'x4' in the laundry rooms should be provided.

Sign painters and painters have been moved into the building acquired from the contractor where they are now set up and continuing with their work. This will eliminate any further paint fire hazards at Warehouse 103.

f. Sanitary Section:

Inspected the following during the week: sewage and water system, pumps, sprinkler system with Mr. Moore of the Fire Underwriters, mess halls and kitchens, sprinkler installation in Warehouse 1 and 2, hospital, laundry, boiler room, chlorinator, new Hog Farm.

Repaired south boiler in Hospital Boiler Room. Emergency lamp in Surgery was repaired. Chlorinated the wells at the Turkey Ranch and Chicken Ranch.

Recommendation that Chief of Agricultural Division be advised to cook garbage before feeding it to the hogs. Checked dry garbage disposal. Raised chlorine content in water lines .05 lbs. Pressure switch on chlorinator pump motor was installed.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Equipment is lacking in the Irrigation Section. Two Overland Scrapers are expected from the Minidoka Project. If these are received in the near future the necessary leveling of the area south of the hospital and at several other locations in the city can be readily accomplished.

Several carloads of lumber have arrived at the project and more is in Delta waiting to be unloaded. To date no heavy timber has arrived for High School or Staff Housing. Hardware for High School has been approved but not ordered. We have materials to go ahead with jobs but not to complete.

4. SUGGESTIONS THAT THE PROJECT DIRECTOR MAY CONSIDER:

It has been realized for quite some time that an expediting set up would be highly advantageous to the efficient operation of our Project. We should like to have this service in securing needed materials if possible.

In the allocation of priority ratings for the maintenance has been somewhat misused. The money applied for and granted for the purchase of pump repair parts for the wells has been applied to any type of pump repair and it is desirable that we maintain a control on the use of this money so that when parts are needed, the money will be available.

The maintenance and operation of the hospital has been previously discussed and a directive as to the status of transfer to the Public Works Division seems advisable at this time. Much of the equipment which has been installed in the Hospital has not received the proper care and particularly the stoves in the kitchen have, in the opinion of the Electrical Engineer, been abused. The responsibility for the maintenance and operation rests with the Public Works Division and unless the transfer is effected, the responsibility for the maintenance cannot be accepted by this division.

5. RECOMMENDATIONS OR GENERAL SUGGESTIONS:

It is suggested that Public Works, Procurement and Project Warehouse meet with Mr. Hughes and made definite division lines regarding follow-up and carrying out of needed requisitions for construction. This has been a sore spot for some months now and has come to the point where wrong items are being expedited.

The Procurement Division has given the inference that the Public Works is intending to take away their jobs. It is well known that Construction and Design are the only people who actually know what items are needed. It is therefore requested that this be brought to a head and taken up with those concerned.

6. FORECAST OF PROJECTED ACTIVITIES:

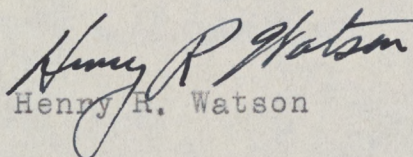
- a. Continuation of canal and ditch cleaning.
- b. Construction, repair and conditioning of irrigation structures.
- c. Operation of dragline at new sewer disposal channel.
- d. Delivery of irrigation water.
- e. Repair of bridges.

We plan to have Mr. Nutsch construct the fills necessary to carry ditches over open drains at the southeast corner of Section 22, between sections 27 and 28 and at the southeast corner of section 10. He will also construct the 2300 ft of sewer drain ditch as planned.

In our opinion, if 25 to 50 additional laborers were supplied to the Irrigation work in constructing the irrigation system

for the city of Topaz, we could have running water in this city within two weeks. The construction will start on the new system to remove the sewer water from the vicinity of Topaz and to eliminate the pond which exists about half a mile west of the camp. It is expected that this new sewage disposal system will be in operation in two weeks and this will remove the water about five miles from the city of Topaz.

Wiring of staff houses for lights and ranges. Connect up chlorinator with automatic pump control switch. General electrical maintenance and study of electrical loads in camp.


Henry R. Watson

HRW/mk

RA3
✓

April 9, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending Thursday,
April 8, 1943.

1. PERSONNEL EMPLOYED:

- a. Permanent- 18
- b. Temporary - 11
- c. Evacuee - 771
- d. Adequacy - Trainees are needed for Design Section. 2
Field Survey Party men needed. Topaz Irrigation system still could use more men. Construction could easily use 100 more men.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Wiring of Staff Houses is going ahead along with other construction but materials borrowed from the school is being used for this purpose. Inasmuch as electrical material so far received for school construction is not the same as that which will be shipped for installation of the electric ranges, we are encountering some difficulty in attempting to accomplish a satisfactory wiring job for the ranges. However, this work is going along satisfactorily.

A request has been received through the Military Police that we make installation of 2 additional telephones locating them on the east part of the project boundary to serve sentry houses to be constructed in the near future. A request has been submitted to Liaison Officer, Major Astrup, in San Francisco that we be supplied with the necessary materials for this installation. Word has not been received from Major Astrup at this time.

Considerable damage is being experienced due to trucks driving through the housing area tearing down telephone and electric wires. All maintenance work is being accomplished without apparent difficulties, under Mr. Harmon and Mr. Warnick.

b. Design Section:

High School construction material lists should be completed by Saturday, April 10, at which time the S. F. Office and the Engineering Procurement can be advised on materials not to order for Elementary Schools.

The mechanical group is working on the Centralized Oil Distribution System for Staff Housing, new Vegetable Storage Refrigerated Warehouse refrigeration design. Working on High School gymnasium, interior wiring and plumbing system. Profile leveling of the city for irrigation is continuing as rapidly as possible. Topography of Section 12 is approximately 50 per cent complete. At the present time, during non-rushing period, the Survey Party is placing bench marks throughout all sections of the Project.

c. Construction Section:

The work on Staff Housing in general is making fair progress. We believe this improvement is based on three factors: 1- Working along with the Caucasian Carpenters; 2- Better weather conditions; 3- Interest taken by the workers in becoming familiar and experienced in various phases of the construction

Construction completed:

Staff Housing--10%; High School, Foundation Piers for Gymnasium--80%, for Shop Building--100%; Bins and Concrete Slabs for Garage--100%; Dining Hall No. 1--100%; Block 1, Building 12--100%; Assembling WPA Buildings, (2-8'x12"--100%)(2-12'x16' for High School-15%); Stage for Buddhist Festival -- 100%; Administration Shop Building 58 Improvement -- 15%.

d. Irrigation Section:

Current work progressed according to schedule. Work completed during the week comprised of the following:

- a. Construction- 2 new head gates
- b. Construction- 1 new bridge culvert
- c. Installation- 1 short pipe culvert
- d. Installation of tile culvert at 2 Topaz road crossings.
- e. 2-1/2 miles of ditches and canals cleaned.
- f. Construction- 2400 feet sewer disposal ditch.
- g. Repair and conditioning of three head gates--Abraham Canal.

- h. Weeds burned from 1-1/2 miles of canals and ditches,
- i. Fill material plowed to provide ditch crossings over drains at SE corner Section 10, SE Corner Section 21 and Crossing between Sections 27 and 28.
- j. The tile at road crossing over drain between Sections 13 and 14 was cleaned.
- k. Irrigation water was delivered to fields in Sections 27, 28, 34, 23, 15, 14 and 13, T 16 S, and to Section 3 and 4 T 17 S. A total of 31 second feet of water was delivered continuous to the Agricultural Division, April 5 and 6.
- l. Gravel, rock and other materials were hauled to sites of pending construction.

The Agricultural Division's landscape crew is putting in about two concrete pipe culverts per week. We are having the survey party run accurate levels to each corner of each city block in an effort to find the best route for ditches and the proper location for pipes under streets. The contour map has not proved satisfactory as a guide.

We have completed a profile over a new location for the sewer outlet ditch, reducing the length of ditch to be excavated by dragline to about 500 feet. The remainder of the ditch can be excavated with lighter equipment.

The crew making ground water test wells have been running levels to these wells for the past few days and have also been locating tile drains that show discharge. The reconnaissance on the tile drains has not been completed.

A small stream of irrigation water entered the city through the newly constructed ditch today.

e. Maintenance and Operations Section:

We are having considerable difficulty with the disappearance of light globes from the high school area. It may be necessary to have the globes be removed by the Education Department and replaced as they need them each time. This will increase the breakage through handling.

Work of Maintenance & Operations section is progressing satisfactorily and we are still unloading lumber for the Project Warehouse. As referred to last week, melting grease has proven to be a very good arrangement for handling and cleaning the grease as it is received from the kitchens. Since last week's report, we have prepared 3,600 pounds of grease which has been sold on bid to be used in the war effort. The handling of grease now will be cleaner, faster.

Construction and repairs in the Cabinet Shop progressed as usual last week. Large orders are now under construction.

The painting on the Staff Dwellings is in full swing. One building has been primed on the exterior and partially on the interior. Per-fa-tape has been applied to all the ceilings. Application of per-fa-tape in the surgery rooms was completed and are now applying the same at the pediatric ward. All the new changes at the hospital will be painted to match existing colors.

One man was injured on the 6th by the small bench saw. The injury was not serious.

f. Sanitation Section:

Sanitary Engineer carried out the regular inspections: water system, sewer pumps, laundry, boiler-room, hospital and Viking installation of sprinklers in Hospital warehouses, final test by Viking Automatic Sprinkler Co. on warehouse sprinkler system, Lee, Page and Turpins installation of panel in boiler room, entire Commissary set up including the Butcher Shop, hospital wards and clinic.

Partition in pharmacy was finished. Work in dental laboratory about 90% complete. Surgery about 40% complete and dust proofed. Sanitary Engineer installed water level control taken out at No. 6 Well and installed temporarily at No. 4 Well. Put steam panel in operation in boiler room. Installed fairway on dragline.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Equipment is still needed for our Irrigation Section.

Several carloads of lumber have been delivered to the Project and 8 or 9 cars to be unloaded to Delta. General framing lumber as well as the inch sheathing and finish materials are arriving rapidly, but heavy timbers for both Staff Housing and High School have not arrived to this date.

In spite of fact, power and skill saws as well as a large quantity of hand tools have been ordered; to this date, we have received only trifling portions of the carpenters hand tools. We have been advised that the power saws will be delivered to us on or before April 24th.

4. COMMENT ON CONDITIONS AMONG THE EVACUEES AS THEY AFFECT YOUR DEPARTMENT:

A party of approximately 100 Maintenance evacuee employees were taken on an educational trip last Sunday. Many of these people have never been out of camp since evacuation, and from information received, they thoroughly enjoyed this trip. We feel that these educational trips help to build

morale of Maintenance Department because work in Maintenance in general is monotonous routine and more or less confined to the center itself, whereas some others are engaged in work which takes them to farms, giving them more or less a feeling of freedom as they leave the center.

7. FORECAST OF PROJECTED ACTIVITIES:

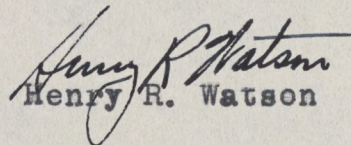
- a. Continuation of canal and ditch cleaning
- b. Construction, repair and conditioning of irrigation structures.
- c. Operation of dragline at new sewer disposal channel
- d. Delivery of Irrigation water
- e. Repair of bridges
- f. Continuation of Topaz irrigation system
- g. Construction of storage yard for materials and supplies
- h. Operation of patrol grader at needed localities.

We are planning to construct several concrete structures in irrigation ditches, repair bridges and roads as soon as sufficient repair of ditches is accomplished to make possible the delivery of water to all planted areas.

We are contemplating construction immediately on the screened housing units for our garbage cans. This work will be commenced just as soon as it can be organized. Due to the fact that flies have made their first appearance, such work is very essential at this time.

We have received approval from Washington for electrical ranges. Requisitions will be issued immediately.

We are arranging to construct the wire fence around the High School Building site, allowing ample space for the storage of various materials and equipment. Upon completion we desire to deliver various materials direct to construction site (within the fence). This will ease the congestion of our Yard No. 2 and will eliminate the double handling of same materials.


Henry R. Watson

HRW/mk

RA3 ✓

April 15, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
April 15, 1943.

1. NUMBER OF PERSONNEL EMPLOYED:

- a. Permanent - 21
- b. Temporary - 10
- c. Evacuee - 769
- d. Adequacy - 300 more men could be used on construction alone.

2. PROGRESS OF CURRENT WORK:

a. Irrigation Section:

That portion of the sewer outlet ditch being excavated by the dragline will be completed today and the drag line will move to the proposed burning pit.

Six and one half miles of road have been covered by the patrol grader up to last night; about 2-1/2 miles will be covered today.

Main and slippery roads interfered with work on most of the Project area the first two days of the week. The rainy days were used in setting up the conveyor loader at the gravel pit, hauling gravel and constructing a storage yard fence.

Work on the project irrigation system consisted of placing rock rip rap at two turnout gates, setting forms for concrete gates to be constructed near the southeast corner of Section 10, constructing one timber turnout gate in ditch on the east boundary of Section 3, completing bridge culvert and approaches at the southeast corner of the city area, cleaning ditches and repairing washouts at old gates.

One concrete pipe culvert was completed and excavations made for two more in the Topaz irrigation system. Weeds were cleaned from ditches Saturday afternoon to prevent washouts.

Dr. O. W. Israelson and party arrived at the project Monday morning, April 12. The party accompanied by Mr. H. R. Watson, Mr. Roscoe Bell and Mr. Hutchinson made a

short tour of the project area inspecting the drainage system and the ground water test wells we have recently installed. Dr. Israelson suggested pumping drainage water from the open drains to obtain deeper drainage in lieu of the more costly method of deepening the drain outlets.

Lumber was transferred from the M & O storage yard to the Irrigation and Roads storage yard. Due to the recent disturbance, our crews of evacuees, as you know, have not worked for the past three days. Except for one stream all water being delivered to the project was turned back Tuesday, April 13.

b. Electrical section:

Necessary maintenance work for the past few days has been accomplished and also some of the construction work at the staff housing and other places.

Mr. Hughes has suggested that a fence be constructed to close in the substation enclosure from the east as a precaution against trespass. The Army Engineers have agreed to furnish barb wire for this fence at the time they place a fence around the water tank, but it is thought likely that the WRA will have to furnish the posts and labor for this short span of fence which is approximately 120 feet.

An explanatory letter along with recommendation as to use of additional appliances in Block 2 was submitted to Mr. Hughes for consideration and it is understood that he is handling this problem directly with the residents of Block 2 to hold the use of electric appliances below the use where the electrical equipment will be safeguarded and a fire hazard will not result. Load tests will be taken periodically from this transformer bank to make sure that dangerous overloading will not take place.

Bearing trouble developed in the motor on Pump No. 4 during the early part of the week. We pulled the motor and found the trouble due to the lock nuts, holding the bearing assembly together, had come loose and were causing the noise in the motor. We are able to make repairs with little or no damage to the motor. It is now in normal operation.

c. Design Section

The staff housing drawings, and details are practically all finished, and we expect to begin detailing work on

the High School. Other projected work as shown in last week's report is still progressing and it is expected to be able to have several proposed projects in the hands of the Project Director for signature and submission to Washington.

The field survey party is continuing work in Sec. 12 and is assisting in the work of the construction of the staff housing, schools and irrigation.

It is expected to have all of the C. M. P. form requirements for the W.P.B. completed by the end of the week.

d. Construction Section:

Completed:	Staff Housing	10%
	High school foundation piers for bymnasium	80%
	Shop building, foundation piers	100%
	Assembling WPA bldgs.	3 ea.
	Garage alterations	50%

e. Maintenance Section:

An inspection was made on April 9 of Block 32 men's washroom. Only 2 mirrors out of 12 were in good condition. All the rest had been either removed, part of the frames loosened from the wall. In other cases the frame and glass were both removed. One Flamo gas tank was found in Block 31 and brought to our warehouse. This evidently belongs to the Standard Oil Co. as they are agents for this product.

Plans are being made to cover the old garbage pit north of the Project and the new burning pit is being constructed by the Dragline west of the Project area. An inspection was made at the site used near the gravel pit for dumping of garbage as well as the burning pit and a number of burlap sacks that had been hauled away were recovered. The garbage has been dumped in many different places and it will require considerable work to clean it up. Also we find that the M.P's are dumping wet garbage at the burning pit and they have been notified that we are not using this place to dispose of wet garbage and also informed them as to the location we are using at the present time as well as part of it going to the hog ranch.

f. Sanitary Section:

Inspected Mess Halls and Milk handling with Mr. L. Glen

Cattle of the State Board of Agriculture. Inspected septic tanks and effluent of same with Captain V. B. Lamoureux, Sanitary Engineer, Public Health Service, Captain C. R. Stunhard, U. S. Engineers, Division of Sanitary Engineering and Mr. Howard R. Hurst, State Sanitary Engineer, Mr. H. R. Watson and Mr. E. R. Shaw, Army Area. Engineer. The same group also inspected water supply and treatment plant.

Steam Autoclave valve in surgery was overhauled and repaired. Sanitary Engineer accompanied Mrs. Takata, Forewoman of Mess Inspectors, to Mess Hall 1700 and sandwich shop which is in the same building. Conditions were found to be very unsanitary. Block 6400 also in bad condition, block 1400 is bad very unfriendly to inspectors. The Chief Project Steward's attention was called to the above mentioned matter.

Ran orthotolodin tests throughout the city. Dental surgery was wired and outlet plugs installed.

Inspected mess halls, water and sewer pumps, hospital, laundry, boilerroom and insulation on steam pipes in covered walk. Inspected Brooklaw Creamery, butcher shop and commissary. Steam Autoclave valve in surgery was overhauled and repaired.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

The patrol grader and dragline are in working condition. Equipment consisting of one 35 caterpillar tractor, one 50 caterpillar tractor and one 40 McCormick Deering tractor with bulldozer blade were received this morning. The 40 and 50 tractors are in fair condition, but the 35 needs considerable repairs.

Despite our efforts to obtain electrical maintenance material we are now faced with a shortage of some items and it is very evident that we are using our small supply of material at a faster rate than we have been able to replace it. It is evident that we have been called upon to make a great many alterations in the existing wiring to accommodate offices set up in buildings not previously intended for office use. Also there has been some construction taking place causing a drain on our materials. Up to date we have been able to comply with practically 100% of all requests for permanent and temporary electrical installations, but unless we are able to secure additional material it will be necessary to curtail our house wiring program considerably. It is suggested that plans for future alterations and constructions be discussed with the Electrical Section as far

in advance as possible in order that we might know the score as to the availability of wiring material.

Surveying stakes are still inadequate for Design Surveying Crew.

At present materials are adequate for construction with exception of heavy timbers for Staff Housing and High School

4. CURRENT PROBLEMS THAT THE DIRECTOR MAY CONSIDER:

During the past week a memorandum was submitted discussing the damage resulting from vehicles driving between buildings in the housing and administrative areas. During the past 6 months there has been a great deal of damage done to the electric and telephone systems through trucks running into poles, guy wires and overhead lines with some damage resulting almost everyday from this cause. There is a definite hazard to human lives along with damage to the electrical and telephone systems anytime a vehicle strikes a pole or wire in this area. It is urged that action be taken to stop this practice whenever possible.

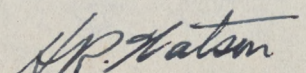
Suitable guards have been placed on all guy wires within the area and these guards have been painted to make them as visible as possible. This precaution has proved to be a great value in avoiding accidents, but there is still far too much damage to the power lines in the area.

The hazards of people walking to and from work along roads and streets of Topaz has brought to our attention the danger of being struck by vehicles. It seems advisable to have a system worked out whereby people walking on roads will walk on the left side of the road facing approaching traffic

It has become more apparent that a definite directive for the operation and maintenance of the hospital be completed as soon as possible to assure harmonious and efficient activities there. Under the dual control system which exists, now, with the hospital staff controlling one part of the maintenance and Public Works controlling the other, the resident employees should clearly understand their responsibilities and where the authority rests. It seems advisable that this definite authority be given to the Public Works in the form of a directive as soon as possible to facilitate efficient functions at the Hospital Plant.

7. PROJECTED ACTIVITIES:

Construction of new ditches and structures.
Repair of roads and bridges.
Construction and cleaning of drains.


Henry R. Watson

RA3
April 22, 1943

T O: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
April 22, 1943

1. PERSONNEL EMPLOYED:

- a. Permanent - 21
- b. Temporary - 19
- c. Evacuees - 732
- d. Adequacy - An unlimited number of carpenters can be used for Carpenter work and digging sewer trenches. Architects are also needed for our Design Section. Additional evacuees are needed for construction work in the field, for student grader, tractor etc. operators.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Sufficient wiring in the staff housing was installed to keep well ahead of the carpentry work. All maintenance of the Military Police flood lights etc. was accomplished promptly. Installation of an alarm system in the sewer pump and also reconstruction of the present float guides as a precaution against unnecessary failure in this utility in the future is being carried out. Trouble developed in the electrical control on the Sewage Plant last week due to dust and moisture collecting on the terminal strip of the Mercoid switch. Repairs were made, but it is probable that a dust proof cover will have to be made for this unit. This can be made of canvas or similar material.

The lighting plant belonging to the Fish and Game Department which was intended for emergency use in the Hospital has been returned to the custody of the Fish and Game Department due to the fact that purchase was never made for this unit. The Hospital is now equipped with one battery operated emergency lighting in the surgery room and a sufficient supply of replacement lamps for this unit is on hand. It is understood that effort is being made to secure one more of these lamps and if they are used only in cases of power failure, they should prove sufficient for their needs.

b. Design Section:

All CMP forms have been completed and submitted except co-op stores and warehouses. Requisitions for purchase for new construction have been completed except co-op. School heating accessories have been taken care of, eliminating elementary school requirements.

The following engineering work is being handled:

1. Project roads and bridge designs.
2. Gas service station, water and drainage.
3. High school gymnasium, water and drainage.
4. The mechanical end of new vegetable storage warehouse.
5. Oil distribution line of staff housing completed.
6. Interior wiring of for gas station and high school gymnasium and vegetable warehouse.
7. Work has begun on the bakery--electrical.

The following architectural work has been completed or in the process of being completed:

1. Staff Housing
2. Bakery
3. Architectural and Engineering Building
4. Preliminary Slaughter House
5. Co-op store and warehouse
6. Vegetable Storage
7. Additions to toilets for warehouse area.
8. Platform scale for agricultural division in Delta
9. Construction for community activities' organization charts.

c. Construction Section:

Caucasian carpenters have spent most of the week unloading and stacking lumber. Very little progress has been made in past week on construction but work is progressing per schedule now.

d. Irrigation section:

- a. The Patrol Grader maintained 4-1/2 miles of project roads, south and west sides of Topaz, and the road running north through Sections 11 and 14 and 1/2 mile east along the north boundary of Section 11. Work was commenced on the construction 1-1/2 miles of road running east along the south boundary of sections 23 and 24. Some leveling was completed at the water tank area but excess moisture would not permit the entire completion of this work. The drill ground and baseball field at the Military Police area were leveled.

- b. The drag line completed excavation of the lower end of the sewer disposal ditch, excavated and placed tile in C drain preparatory for project boundary road crossing.
- c. Caterpillar 50 and grader cleaned ditches running west and north from the SE corner of Section 13 and ditches running west and north from the SE corner of Section 24. Greasewood was bladed from 1-1/2 miles of roadway along the south boundary of Sections 23 and 24.
- d. Two loads of tile were hauled to three intersection crossings of the Topaz Irrigation System. Excavation of two crossings at the southeast corner of Block 14 were nearly completed.
- e. The delivery of irrigation water to the various fields was reduced to some extent because of evacuee irrigators not working.
- f. A three way gate was constructed near the center of the east boundary of Section 24.

e. Maintenance Section:

An inspection was made last week of the dry garbage dump and it was decided to excavate a new pit beside the existing one using the excavated material of the new pit to cover the old one. More care will be exercised to eliminate as far as possible the disposal of old cans and rubbish that cannot be consumed with fire.

A leak in Block 40 bath and shower rooms was repaired by removing sheetrock, threading the pipe to install a union in order to tighten the fitting. Trouble in Block 32 men's shower room was cared for by removing approximately 100 lbs of bean sprouts which had been carelessly spilled into the drain line. Plumbing crew excavated to the pipe line and made repairs of the service pipe leading into Block 16.

f. Sanitation Section:

Inspected sewage pumps, septic tanks and water pumps, laundry, boilerroom and Hospital, butcher shop and Commissary, insulation on steam pipe in covered walk, outflow sewage system, Mess Halls in Opal Avenue. Sanitary Engineer overhauled No. 1 Boiler Feed Pump. Advised the Senior Engineer that it is filling up (out-

flow sewage system) with growth, moss , algae, etc. Overhauled and realligned vacuum pumps. Ran comparator test for Chlorine residual. Troy Steam Engine overhauled. Roughing-in piping for gas to the Dental Laboratory installed.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Maintenance Section has been awaiting grates for boiler room and for Ideal Hot water heaters for the kitchens since December. It is advisable that these grates be made up in a foundry if not procurable as heaters in some cases are being fired on the concrete floor of the kitchens.

Representative of the General Electric Supply Company were at the Project on Monday and they will, within a very few days, supply us with a list of surplus materials which can be purchased without priority. We will endeavor to take advantage of this opportunity of purchasing such things as switch boxes, fuse, insulators, loom etc. in order to save our priority assistance for purchase of more vital products.

4. FORECAST OF PROJECTED ACTIVITIES:

- a. Continuation of canal and ditch cleaning.
- b. Construction, repair and conditioning of irrigation structures.
- c. Operation of dragline of C drain at Abraham Canal crossing SE corner of Section 10.
- d. Delivery of irrigation water.
- e. Operation of patrol grader on Topaz boundary road.
- f. Repair of bridges.
- g. Continuation of ground water survey, further study for the immediate betterment of the drainage system and the installation of water measuring stations on various canals and ditches

H. R. Watson
Henry R. Watson

April 29, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
April 29, 1943

1. PERSONNEL EMPLOYED:

- a. Permanent - 22
- b. Temporary - 16
- c. Evacuees - 735
- d. Adequacy - Additional evacuees are needed for field construction and student equipment operators.
An unlimited number of skilled and unskilled men can be used in construction. Architects are also needed for our Design Section.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

Arrangements are being made with the Block Managers for a suitable time to relocate the wiring in the Laundry Buildings so that we can salvage sufficient cable to connect the various motors in the proposed NYA wood work and power sewing units. This work will be commenced immediately after word is received from the Block Managers on Thursday of this week. Salvage of this material will also help to solve our staff housing wiring problem in that we will secure enough material to connect a part of the electrical ranges. Staff housing wiring is now well caught up with the carpentry work with sufficient material on hand to carry out the inside wiring except for a shortage of large insulators for range wiring. The outlook now is that the electrical work in the staff dwellings will be held up by lack of line material and transformers for service to the ranges.

Thought is being given to the problem of an auxiliary lighting equipment for the Hospital. It is probable that the most practical equipment to install would be

a gas driven generator sufficiently large to furnish 3 phase, 220 Volt service to the two vacuum pumps and lighting service to a part or all of the Surgery and Obstetrical Ward. In view of the fact that the total load used by the Hospital is extremely large, it does not seem practical to try to install an auxiliary unit to light more than the two wards mentioned plus a few other lamps in more necessary locations.

b. Design Section:

Requisition for elimination of construction materials for schools and staff housing, other construction items and recapitulation for lumber requirements have been completed. Necessary changes in the staff housing has also been completed. CMP Forms for Stores and Warehouses will be completed by the end of the week for submission to Washington.

The following work has been completed or is in progress:

1. Staff housing
2. High School
3. Agriculture-Engineering building
4. Slaughter house
5. Store and Warehouse - work in progress
6. Refrigerated warehouse for vegetable storage - work in progress
7. Addition to toilets for warehouse area - drawing completed
8. Shelf for telephone to serve Design section and Project Attorney's office - drawing completed
9. Platform scale for agriculture division
10. Miscellaneous minor construction for community activities section
11. Implement Shed- drawing for anchor straps finished
12. Miscellaneous organization charts
for high school - in progress
for warehouse section - finished
for leave office - finished
13. Platform scale for warehouse section
14. Garbage can washing station
15. Tofu plant

c. Construction Section

Progress is being made on all the work we are doing at the present time. The installation of screens of resident apartments is to be done by voluntary labor under the direction of each respective Block Manager.

Caucasian carpenters have been assigned to supervise the construction of Farrowing House for Hog Sections and Laying Houses for the Poultry Section - both for the Agriculture Division. The commencement of the actual timber construction of the Shop Building is pending the receipt of the plan showing the revised location.

d. Irrigation Section:

A meeting of the Abraham Irrigation Company directors was held Wednesday at 2:00 P.M. to consider the adoption of an agreement, drawn-up by the Land Procurement Section of the U.S.E.D. This agreement defines the responsibility of the Company in protecting the War Relocation Authority's interests in the use of water in lands of the Abraham Relocation Center until such time as the Authority is able to make a permanent choice of land on which water is to be used. The Company officials were directed to enter into the agreement. A motion was made and passed which makes it possible for the Abraham Irrigation Company to give the Abraham Relocation Center credit toward payment of levied assessments, for the cost of any maintenance work done by the Relocation Center on canals and ditches owned by the Company outside the Project limits.

Work activities were as follows:

- a. Patrol Grader - Road paralleling south boundary sections 23 and 24 was graded full length but could not be finished because of insufficient moisture. Place for coal storage was leveled. Work started on road paralleling east project boundary along sections 34 and 3.
- b. Dragline - Moved to SE corner section 10 - removed tile, excavated for replacing of tile, replaced and partially covered tile.
- c. Caterpillar 50 and Grader - Cleaned most ditches outside of Agriculture plots in sections 12 and 13. Some ditches also cleaned in section 14. Brush clearing east of section 34.
- d. Constructed three new gates in section 24, installed one culvert south boundary section 23, moved culvert at south center of section 14 to provide better head and more volume of water. Constructed box trap for elevator loader at gravel

pit and assisted in placing tile for ditch crossing on C drain SE corner section 10.

e. Two culverts for diversion of water under Topaz streets were installed at the south east corner of Block 14.

f. The ditch cleaning equipment rented from Mr. Nutsch has been at work since Monday, April 26, and has cleaned ditches in sections 1, 2, 11, 12 and 24.

e. Maintenance Section:

Numerous leaks in pipe lines were repaired the past week. These leaks are all due to the pipe being thin at the time of installation, tar coating giving away, or rust setting in.

We have just received 24 boiler plugs. This is a sheet-metal type screw arrangement with a rubber gasket designed for the use of making repairs on steel boilers. This first block was purchased to use as sample and if it proves to be successful, it will expedite the manner in which the repairs will be made on the pipe line.

f. Sanitation Section:

Inspected Hospital, boilerroom, laundry, sewer and water pumps, butcher shop, mess halls in Blocks 1700, 1400, 6300 and 6400, effluent disposal at septic tanks and garbage disposal. Began installation of sterilizer in Baby Kitchen. Installed a new type of float control on the sewage pumps. Overhauled Troy Engine. Burned garbage at the gravel pit and repaired the chlorinator.

g. Cabinet Shop:

Work has been started on the garbage rack screens, the repairing of the garbage racks and also the installation of bumpers. At Dining Hall #1, a platform has been installed and also the screened rack. The finish coat will be started on the interior of the Staff Housing Building #210.

The following items were constructed at the Cabinet Shop:

30	Stools	2	Drawing Boards
5	Bulletin Boards	2	Stands
1	Blackboard	2	Cabinets

9	Step Ladders	1	Bookcase
2	Distributors	3	Vertical Files
3	File Boxes	5	Tables
9	Typist Desks	6	Carriers

3. ADEQUACY OF SUPPLIES AND MATERIALS:

The Maintenance Section is awaiting the receipt of the grates for hot water boilers and Ideal Hot Water Heaters that are in the Kitchens. Purchase order for the insulators for the Electrical Section was issued April 7, 1943 to the Westinghouse Supply Corporation, Salt Lake City, Utah but delivery has not yet been made. The Procurement Section advises that an inquiry will be made by telephone for delivery information.

4. FORECAST OF FUTURE WORK:

- 2
 - a. continuation of canal and ditch cleaning.
 - b. Construction, repair and conditioning of irrigation structures.
 - c. Operation of dragline at ditch crossing on C drain SE corner section 10
 - d. Delivery of irrigation water.
 - e. Operation of patrol grader on Topaz boundary road.
 - f. Sewerage disposal ditch.
 - g. Expedite the installation of screens on resident apartments and screen garbage racks on every Dining Hall.

H. R. Watson

Henry R. Watson

May 7, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
May 6, 1943

1. PERSONNEL EMPLOYED:

- a. Permanent - 22
- b. Temporary - 19
- c. Evacuees - 771
- d. Adequacy - Additional evacuees are needed for field construction and for student equipment operators. Also electricians will be needed as soon as construction of the schools gets under way.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

1. N. Y. A.

Wiring will be started today on the N.Y.A. wood working, power sewing, and clerical sections being set up in 111 and 112. It will, of course, be necessary to borrow materials for this installation from the Maintenance and Operation supplies. Preliminary check up indicates that we have sufficient material on hand to do a fairly good job and provide suitable service to each machine.

2. Staff Housing:

Wiring in staff housing is being slowed somewhat by lack of insulators for the range wiring, but Mr. Warnick is keeping very careful check on this job, and if the insulators which have been purchased are received within the next couple of days, construction should not be interfered with to any extent. Delivery of the insulators was promised this week by the Westinghouse Electric Supply Corp. approximately on May 5th. Suitable used transformer for staff housing stoves have been located and

purchase order has been issued for three 50 KVA transformers for this job. Shipment was promised within three or four days after receipt of order, and Procurement is preparing a teletype order to be sent today authorizing shipment at once.

3. Air Conditioning:

Thought is being given to the allocation of the air conditioning units now on hand and purchased for use at this Project.

b. Design Section:

Poultry layout--plumbing system being worked, high school new layout prepared and the surveyors are putting layout on shop. Revamping of sewerage and water being completed, electrical layout being prepared and topography being stymied due to lack of field personnel.

The following units have been completed:

1. Storage and warehouse for Co-op.
2. Refrigerated warehouse.
3. Miscellaneous organization charts.
4. Gas service station.
5. Plumbing and sewerage layout women's lavatory, warehouse area.

The following are being worked on:

1. Water system for poultry farm.
2. Wiring design for high school gymnasium and shop.
3. Slaughter house.
4. Revision of block #2.
5. Layouts of high school.
6. Miscellaneous charts.
7. Trainees are working on cloth tracings of valuable drawings.

c. Construction Section:

Fair progress is being made on all constructions. It is planned to commence timber work on high school Shop Buildings as soon as the foundation piers have been re-established at new revised location. Seven buildings on Staff Housing are being worked on, and the

foundations for two additional building will commence in a few days.

The status of other minor constuctions are as follows:

WPA Bldgs.	for Internal Security	4 completed
"	" Fire Protection	1 "
"	" Timekeeper	2 "
"	" Pay Station	1 "
"	" Public Work	3 "
"	" Agriculture	2 "
Partitions in Rec. 11		Completed May 3.
Farrowing House for Hog Agriculture		" May 3.
Laying House for Poultry "		1 Foundation completed
Improvement on Bldg. 58		90% completed
Screening of Res. Blks. by Blk. Mgr.	50% materials complete	d
Clothesline for Res. Blks.	20% of materials delivered	

d. Irrigation Section:

Water was turned into the Topaz City ditches the morning of May 1st and used on the recreation areas south and east of the City, until the evening of May 3rd when it was turned out due to broken ditch banks. The ditches are being repaired and the water will be turned in tomorrow or next day. Considerable difficulty was encountered at the fill in "C" drain near the south east corner of section 10 when three joints of the 36" concrete tile became displaced while the fill was being made. A break-down in the dragline further delayed the work so that the filling is not yet completed.

Plan to begin construction on the connecting ditch between the Wilson Canal and Delta Canal along the east boundary of section 12, early next week. This will necessitate the use of the 50 Caterpillar, pull grader and wheel scraper.

The ground water survey has been carried out as planned; 86 wells are now being read and others are being constructed as suitable locations are found.

Cat 50 and grader completed brush clearing east of Sect. 27 and 34, made new ditch in Topaz, south of Hospital area, cleaned ditch extending along east boundary of Topaz; constructed ditch to divert

sewerage water from ponding. The crew we have on the 50 Caterpillar and pull grader are doing very well and will soon be able to accomplish considerable work with the equipment. The D-40 tractor with bulldozer, being used at the gravel pit constructing gravel loading traps, however it is out of order and has yet completed the work. The ditch cleaning equipment rented from Mr. Nutsch has cleaned 10 or 12 miles of ditches during the week. This work will continue about 5 days longer when all or most of the ditches being used this season will have been cleaned.

Patrol Grader continued grading of road along east boundary of sect. 27, 34, and 3. Road along sect. 34 and 3 was finished as far as moisture conditions would permit. The fair lead for the dragline was under repair four days out of the week. The other two days it worked at the Abraham Canal crossing of C drain at the SE corner of Section 10.

e. Maintenance Section:

The following is a report of our action taken to the current instructions to save tin cans accumulated at project.

Along in November, we organized a crew to cut the ends out and flatten cans for salvage purposes which accumulated west of the city and crated approximately two carloads of cans of which one and a half now are at Delta warehouse. Received a telephone call from Property Control stating that it is now desirable to have No. 10 tin cans separated from all others, even those that are now stored at the Delta warehouse; which will involve transportation facilities for a crew to go to Delta, open the cases, remove any labels that are present, and make the separation and repacking that is necessary to complete this job. At this time, we are debating the advisability of attacking the problem in this manner or having the cans returned to Topaz to be processed here. In either case, the transportation problem involved will be an item to be considered.

Many of the tins at the Delta warehouse were accumulated at the can dump from the kitchen operated by Daley Bros. during the course of construction of Topaz and many

of the labels were on the cans. At this time, as I am informed, approximately 10 or 15% of the labels are present on the cans now stored at Delta, and all cases are mixed sizes.

Mr. Roy Potter suggested in a conversation with Mr. Hughes that he would be willing to maintain on his payroll, one Caucasian foreman if the proper arrangement could be worked out for a salvage crew which would be used to salvage sacks, cans, boxes, crates cardboard, or any other thing of value. It is my opinion that this would be a very desirable arrangement and feel that we could cooperate with and support such a movement to the limit. At the present time, we have four men working daily cutting the bottoms and mashing cans, and they will continue until the present supply is exhausted.

f. Sanitation Section:

Inspected Water and sewage pumps, hospital, boiler room and laundry. Gave Oil treatments to the pond west of the City and believed it helped considerably toward the mosquito control.

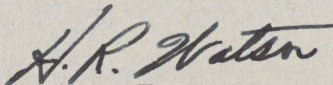
4. FORECAST OF FUTURE WORK:

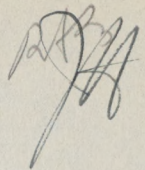
- (a) Auxiliary Plant for Hospital
- (b) Additional Telephones for Military Police.

5. RECOMMENDATIONS FOR THE PROJECT TO CONSIDER:

In order to expedite construction of Staff Housing and Schools it is imperative that we have a minimum of 50 additional men who can be trained to do carpenter work. Additional personnel are ^{also} urgently needed in irrigation work.

It seems advisable that the garage establish grease service to service field equipment with grease and gasoline. We should like to have this taken under advisement and if possible have such a service initiated as soon as possible. This procedure will allow the servicing of Agriculture as well as Public Works equipment in the field by experienced men trained by the garage.


Henry R. Watson


May 13, 1943

TO: Project Director

FROM: Senior Engineer

SUBJECT: Weekly Narrative Report for Week Ending, Thursday,
May 13, 1943

1. PERSONNEL EMPLOYED:

- a. Permanent - 20
- b. Temporary - 21
- c. Evacuees - 783
- d. Adequacy - Additional evacuees are needed for field construction and for student equipment operators. The Survey Crew is in dire need of men.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

1. N. Y. A.:

Wiring has been completed on the N. Y. A. Power Sewing Machine and Clerical Section with the exception of some overhead lighting which will probably be necessary. However, these needs will not be known until all of the windows are cut in the building and the machines placed in their permanent positions. In the Wood Work Section wiring is being installed today for the power machine, using material borrowed from the Maintenance and Operation construction stock.

2. Air Conditioning:

All of the fans and coolers purchased up to date have now been delivered to the project and work will be started on the installation at once. It will probably be about one week before pipe and hose will be available for connections to the water lines, but purchase has been made and delivery assured. The first installations will be made in the Hospital and Administration Buildings.

3. Staff Housing:

Wiring in Staff Housing has been kept well ahead of other construction with the exception of the range

wiring which has been held up by a shortage of insulators. Purchase of these insulators is being followed but delivery date is not yet known. The wiring for ranges will be completed immediately after receipt of these insulators in all of the buildings where construction is held up because of wiring.

b. Design Section:

PD-200 forms have been completed for partitioning of evacuee apartments. Screens of evacuee apartments. Gallery building and Internal Security Buildings. PD-200's are being worked on Incinerator, Coal Bunkers, Refrigerated Warehouse and N. Y. A., immediately.

Surveyors - Handling topography of Sec. 11, Staff dwellings, High School, irrigation of city and various construction items.

Estimators - Working on refrigerated warehouse, electrical requisition for garage and poultry.

Engineers - Working on Project Road and Bridge design. Revised staking plan for High School, Plumbing and Bake Shop. Revised water connections for Staff Housing lavatories. Water layout for Poultry Farm. Water and Sewerage layout for revised High School gymnasium and shop buildings. Working on relocation of Gas Service Station and the utility connection of the High School.

Architects - Platform scale for warehouse, on the boards. Plot plan for industrial layout, revised. Layout of warehouse for N. Y. A. Training School. Miscellaneous Organization charts. Having trainees make ink drawings of important layouts.

c. Construction Section:

The status of construction work are as follows:

1. General repairing at Bldg. 58 (Garage)-completed.
2. Calamine M.P. Headquarter-completed.
3. Assembling two 130' x 20' CCC Bldgs.-started.
4. Adobe Poultry Houses-1% (Foundation & concrete floor of one bldg. nearly completed)
5. Installation of screen in Resident Apts.
Materials delivered - 100%
Installed - 83%
6. Staff Housing - Men working on 8 buildings.
7. High School - Installing joists on shop building.

d. Irrigation and Roads Section:

Irrigation water has not been returned to the Topaz area since it was turned out on the 3rd of May. However preparations are nearly completed for its use on the Hospital area. Labor crews constructed a wooden flume at Abraham Canal, crossing of the C drain, south east corner of Sec. 10. Cement headgate installed at Hog Farm, Sec. 10. New bridge installed on project boundary road on east side of Sec. 13. Installed culverts at street crossing-northeast corner of Block 32, south-east of Block 33 and south-east corner of Block 34.

Patrol Grader - Used on Elm & Sage St. partially as an experiment after light rains to determine if the pitted condition could be improved but due to insufficient moisture and excessive oversize used as sub base material in the original construction a satisfactory maintenance could not be accomplished, consequently the work was discontinued. Approximately 1-1/4 miles of new road were constructed along west project boundary extending from southwest corner of Sec. 16 to the C drain.

Trap for loading gravel at gravel pit completed but has not been put into use. TD-40 tractor with bulldozer now being used at the garage to excavate the scale pit. One of the rotary scrapers is now being used and seems to move earth faster than any equipment we have in use. Nutsch tractor and grader cleaned approximately 12 miles of ditches and canals in the southwest and northwest section of the project.

Dragline - Assisted in replacing tile at Abraham crossing of C drain near southeast corner of Sec. 10. A section of C drain was cleaned extending a short distance each way from this crossing.

Caterpillar 50 and grader - deepened the sewer disposal ditch for a short distance along the upper end. The irrigation ditch along the east boundary of Topaz enlarged and banks raised. Started replacing of fill for ditch crossing for the old canal between Sec. 27 and 28.

e. Maintenance and Operation Section:

An assignment of duties for the Sanitation crew and those engaged in salvage work is being planned as a guide toward less sanitary hazards. A new system

of keeping the property records at our warehouse is being considered so that the sections can be notified of the items on hand.

Throughout the Center area some windows have been hung on the outside by the residents and the proportion of reported breakages are greater in such instances due to the fact that they are more susceptible, being on the outside of the building, to children throwing rocks, baseballs, coal, and being hinged at the top, drops with a gust of wind. It is expected that the application of screens will help to lessen the window breakages and it might be fitting to add that during this week, 60 pieces of glass, 14 x 36, have been installed. We are, in the future, going to have a record made of all window breakage of all those that were re-hung by the residents, and then we will be able to make a definite report as to the number chargeable to this type.

The Cabinet shop is concentrating on cupboards and wardrobe closets for the Staff Dwellings. Staff housing Building #210 will be finished very soon. The Spray Gun outfit is a great aid toward speeding the painting jobs.

f. Sanitation Section:

Inspected outfall of sewer ditch and garbage disposal, Butcher shop, wells, sewer pumps, Hospital, laundry, boiler room, water tank, water pumps and kitchens. Installed gas and air lines to Dental Laboratory. Fumigated Barrack #8, both bathhouses and laundry room in Block 29

3. ADEQUACY OF SUPPLIES AND MATERIALS:

Construction - Sufficient Bldg. material on hand to carry on except the heavy timbers and electrical materials for Staff Housing and High School.

Maintenance - Have been informed that the N. Y. A. will be able to furnish us with grates for the boilers and hot water heaters for the kitchens. It was stated they would furnish these at a cost of only the transportation charges and arrangements are now being worked out to acquire the grates in this manner.

4. FORECAST OF FUTURE WORK:

1. Irrigation and Roads - Conclusion of the initial cleaning of canal and ditches. Construction repair and conditioning of irrigation structures. Operation of dragline on excavation of 15 inch tile drain running east from D-100 drain through west half of Sec. 11. Continuation of grading and maintaining project boundary roads. Construction of new ditch along east boundary of Sec. 12 to divert water from the Abraham Canal System to the Delta Canal System. Continuation of construction on the Topaz Irrigation System. Delivery of irrigation water.

Design - Making a list of materials of over-shipped items which were to be used for Elementary School construction. When this is completed, it will be forwarded to Construction for their handling and to control records of transfers. Restaking of High School. Should be able to start Friday. A plan drawing of temporary Gallery Building to connect Administrations A and B. To check and bring up to date all High School drawings for construction. Some cases of drawings are not adequate.

5. GENERAL SUGGESTIONS:

✓ Recommend that working hours begin a half hour earlier. Within one month will be the longest day in the year and it is believed that working conditions at 8:00 a.m. in the morning are not too severe.

/ It has been suggested to place an Efficiency Chart on a bulletin board at the construction site showing the various completion units in days for each group of workers. This might have a tendency to formulate competitive basis for the building crews.

Henry R. Watson

L. B. Taylor

L. B. Taylor

May 20, 1943

MEMORANDUM TO: Project Director
FROM: Senior Engineer
SUBJECT: Weekly Narrative Report for Week Ending
May 20, 1943

1. NUMBER OF PERSONNEL EMPLOYED:

- (a) Permanent - 21
- (b) Temporary - 22
- (c) Evacuee - 781
- (d) Adequacy--Additional appointed personnel on temporary basis needed for construction work such as painters, carpenters and a skilled man to lay mastipave. ✓

Additional evacuee personnel is needed for field construction, student equipment operators, surveyers and electricians. It is not necessary that they be skilled. 100 carpenters are also needed.

2. PROGRESS OF CURRENT WORK:

a. Electrical Section:

1. N. Y. A.

Wiring completed except for a few minor details. This additional load has been connected on the present transformer bank now servicing the Commissary and Warehouse Group. Load test will be made to determine whether additional transformer capacity is necessary. If found advisable the present 15 KVA will be replaced by a 25 KVA unit.

2. Staff Housing

Electrical work is progressing satisfactorily. It is well ahead of the construction work so that it will not interrupt the construction progress. Pole line for outside electrical has commenced. Transformers will be installed immediately after their arrival. Unfortunately wire for outside electrical for this unit will not arrive until the latter part of July, so the wiring received for school construction will be used as far as the supply will permit.

Weekly Narrative Report--May 20, 1943

2. PROGRESS OF CURRENT WORK (Continued)

a. Electrical Section:

3. Telephone

A request was forwarded to the Signal Corps at the Presidio of San Francisco for materials necessary for the installation of 2 telephones for new sentry houses requested by the Military Police. No reply has been received.

4. Air Conditioning

Work will commence immediately on the installation of air conditioning equipment. This will be the major task of the electrical crew for the immediate future.

b. Design Section:

1. Pd-200 forms completed--Refrigerated Warehouse, Internal Security Building and Hospital Incinerator. Pd-200 forms are in process for Coal Bunkers and the Extension to Administration Garage.
2. Surveyors handling topography of Section 10, Staff Dwellings, High School, irrigation of city and various construction items. Topography of Section 11 completed. Topography of Section 10 to be completed May 30.
3. Revised Staking Plan for High School, water system for Poultry Farm, electrical distribution work on rewiring of High School Science and wiring diagram of High School Gymnasium and Shop Building completed. Work is in progress on Project Road and Bridge Design, plumbing for Bake Shop, water and sewer layout for revised High School plans. Estimations on mechanical and heating equipment for garbage can cleaning plant and alterations to blocks 2700, 5400, and 6200 in lighting system in progress.
4. Drawings completed for the platform scale for warehouse section, organization chart for Education, Garbage Can Cleaning Station and Car Washing Platform and minor drawings for Turkey Farm.

Weekly Narrative Report--May 20, 1943--3

2. PROGRESS OF CURRENT WORK (Continued)

c. Construction Section:

1. The following are the construction work in progress:

Staff Housing
High School Shop Building
Assembling W.P.A. Buildings
Assembling C.C.C. Buildings
Laying Houses, Poultry Ranch
Winterizing Warehouse 111 and 112 for NYA use.

d. Maintenance & Operations:

1. Leaks
We are continually experiencing leaks in the water lines, causes of which we are all aware. Repaired this week 8 leaks. ✓
2. Coal
No special provision is made for the unloading of coal so frequently the coal crew is unable to handle incoming coal expeditiously due to lack of manpower. Work is often carried on far in to the night. ✓
3. Sanitation Crew
The status of the Sanitation Crew has been changed to Sanitary Service Inspectors. Steps have been taken to segregate wet and dry garbage in each block. An effective bumper has been installed at each garbage rack.
4. Clothesline
Clothesline posts have been delivered to the blocks to be installed by the block service men.
5. Street Signs
Street signs have been installed.
6. Screens
Screens are being installed on Block washroom windows.
7. Salvage
Crew loaned from the Transportation and Supply Division have undertaken salvaging of grease and tin cans.

2. PROGRESS OF CURRENT WORK: (Continued)

e. Irrigation and Roads Section:

1. Research-Seepage Loss

The Ground Water Survey Party have been working recently on wells suggested by DR. Isrealsen to supplement the research work contemplated for determining the seepage losses in that branch of the Abraham Canal running northerly through Sections 23 and 14. We are planning to install four of the water level gauges and velocity reading stations on this ditch at locations suggested by Dr. Isrealsen.

2. Equipment Work Progress

Equipment work progress is as follows:

Leveled 2 blocks of residential area
Removed high section in D-100 drain
Removed abandoned ditch crossing
Filled ditch crossing at southeast corner of Section 28
Removed temporary crossing, Topaz Highway, C-100 drain
Cleaning of canals and ditches as usual

3. Construction Progress

Construction progress is as follows:

8 new head gates installed
Back fill tamped at C drain, Section 10.
3 tile culverts installed at street inter-sections, Topaz City Irrigation System.

f. Sanitation Section:

1. Hospital

In the original construction of the Hospital metal rings which are placed around pipes coming through the floor were not provided for the Hospital. Masonite radiator pipe rings have been constructed and installed in the Hospital as a control against mice entering the Hospital.

2. Fumigation

It was discovered that bed bugs existed in the old abode house where the chicken ranch is to be built and in order to prevent any of these bugs entering the project the house was fumigated with cyanide gas. Two more fumigations will be necessary to be sure that all of the bugs have been destroyed.

Weekly Narrative Report--May 20, 1943--5

2. PROGRESS OF CURRENT WORK: (Continued)

f. Sanitation Section:

3. Pet Control

Work is being conducted on the pet control and the elimination of wild pets such as squirrels in the camp.

4. Improvements

Improvements are being made continually in the Hospital and laundry to facilitate the work and comfort of the workers. The corridors are being lined with plasterboard by the Army Engineers. Radiators for the hospital corridors are also being installed.

3. ADEQUACY OF SUPPLIES AND MATERIALS:

a. Electrical Section:

A list of electrical materials necessary for revamping wiring in the N. Y. A. shops has been prepared and submitted for preparation of PD 200. ✓

b. Construction Section:

One carload of heavy timber for Schools and Staff Housing has arrived. More electric supplies are here and the wiring of Staff Housing can be completed. With exception of a few small items adequate materials are on hand. Delivery of power saws is expected early in June. ✓

c. Maintenance and Operations:

Grates are now available through the N. Y. A. This will solve this problem.

d. Design Section:

Adequate

e. Irrigation and Roads Section:

Adequate

f. Sanitation Section:

No comment.