

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Laramie, Willett Drive Extension of Water and Sewer
to Red Jacoby Memorial Golf Course; Project 16-72, Laramie, WY

ARCHITECT OR ENGINEER: Upland Industries Corp., R. Michael Brenneman, .E.
Suite 1000, 110 North Fourteenth Street, Omaha,
Nebraska 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-1

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 7, 1974

ACTION: Authorized for Construction

COMMENTS:

In view of the fact that these are "as constructed" plans,
authorization is hereby granted; provided that the Engineer in
his certification of the project, is cognizant that Wyoming
requirements include 10 States Standards.

PCS:mp
1-11-74

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Upland Heights Addition, Sewer and Water - Phase I, and Pump Station UNDER CONSTRUCTION, Laramie, Wyoming Project No. Wyo-05-73-1

ARCHITECT OR ENGINEER: Upland Industries, R. Michael Brenneman, P.E., Suite 1000, 110 North 14th Street, Omaha, NE 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-2

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 7, 1974

ACTION: Authorized for Construction contingent upon compliance with comments.

COMMENTS:

1. Authorization is hereby granted; provided that the Engineer, in his certification of the project, is cognizant that Wyoming requirements include 10 States Standards. Particular reference to 10 States Standards is made for points where water and sewer lines cross.

PCS:mp
1-14-74

cc: Phil Hughes, District Sanitarian, Rock Springs, WY

1 set of plans returned

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Bridger Addition Subdivision and Support Facilities located at Green River, Wyoming, consisting of 61 lots. Project No. 39-73.

ARCHITECT OR ENGINEER: Upland Industries Corp., R. Michael Brennehan, P.E.
Suite 1000, 110 N. 14th Street, Omaha, Nebraska 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-3R

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: March 26, 1974

ACTION: Authorized for construction contingent upon compliance with comments.

COMMENTS:

- A. Table II indicates a per capita flow rate of 70 gallons per day. "10 State Standards" require a design flow rate of 100 gallons per person per day unless unusual circumstances can be shown which would reduce this rate. Thus far, our experience in Wyoming would indicate a flow rate of approximately 150 gallons per person per day to be more within practical design criteria.
- B. Unless unusual circumstances exist, a population factor of 1.5 should be used for the Mobile Home as well as the single family dwellings.
- C. Appendix A indicates a 50% factor of .17 per person. 10 State Standards imply a factor of .21 should be considered due to the increased use of garbage disposal units, dishwashers and other modern conveniences.
- D. The above comments may seem to be academic and subject to individual interpretation, however; they must be given consideration to avoid possible future violation of discharge standards as occupancy approaches 1975 anticipations.

PCS:bb

3-27-74

2 sets of plans returned

B-1

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Bridger Addition Subdivision & Support Facilities located
at Green River, Wyoming; consisting of 61 lots. Project No. 69-73

ARCHITECT OR ENGINEER: Upland, Industries Corp. - R. Michael Brenneman, P.E.
Suite 1000, 110 North 14th Street, Omaha, NE 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-3

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 9, 1974

ACTION: Authorization withheld pending receipt of information requested
in comments below:

COMMENTS:

1. Size of proposed sewage treatment plant and include design criteria, also indicate that adequate fencing and proper signing will be provided around the polishing pond and treatment facilities.
2. Indicate that 10 State Standards will be adhered to for all water and sewer line installations with particular attention to locations where water and sewer lines intersect.
3. Indicate that the City of Green River has approved of the subdivision.
4. A discharge permit will be required for the effluent from the polishing pond (application enclosed) should the outlet structure be built.
5. Indicate the party who will have responsibility for operation and maintenance of the sewage treatment facilities.

PCS:mp
1-14-74

Enclosure

CC: Phil Hughes, District Sanitarian, Rock Springs

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Upland Industrial District, Paving and Utilities, 8" AC Water
Line UNDER CONSTRUCTION, Rock Springs, Wyoming Project No. Wyo-
13-73

ARCHITECT OR ENGINEER: Upland Industries, R. Michael Brenneman, P.E.
Suite 1000, 110 North 14th Street, Omaha, NE 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-4

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 14, 1974

ACTION: Authorized for Construction

COMMENTS:

Authorization is for 8" A.C. Water line only

PCS:mp
1-14-74

cc: Phil Hughes, District Sanitarian, Rock Springs

1 set of plans being returned

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REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Upland Addition Subdivision; 39 lots - Sewer and Water Systems
(January, 1974 construction) Rock Springs, Wyoming

ARCHITECT OR ENGINEER: Upland Industries, R. Michael Brenneman, P.E.,
Suite 1000, 110 North 14th Street, Omaha, NE 68102

WATER QUALITY DIVISION REFERENCE NUMBER: 74-5

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: January 14, 1974

ACTION: Authorized for Construction contingent upon meeting these
recommendations.

COMMENTS:

Water lines and sewer lines are to be constructed in accordance
with 10 States Standards.

PCS:mp
1-14-74

cc: Phil Hughes, District Sanitarian, Rock Springs, Wyoming

1 set of plans returned to Engineer

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pacific Power & Light Company, Green River Water Treatment Plant, 1973-74 Plant Expansion, Phase II, Green River, Wyoming

ARCHITECT OR ENGINEER: Prepared and submitted by Pacific Power & Light Company, Public Service Building, Portland, Oregon 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 74-6

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 1, 1974

ACTION: Construction authorized contingent upon receipt of satisfactory reply to the comments set forth below.

COMMENTS:

1. Can the increased plant capacity resulting from the additions of the proposed filters be properly pre-treated by the existing coagulation and sedimentation equipment under the most adverse conditions of raw water quality?
2. Have provisions been made for properly treating the increased flows to waste from the filter backwash, the accellator, and settling basin in order that these wastes will not exceed the limits established by the plant discharge permit?

RHP:mp
3/6/74

cc: Phil Hughes, District Sanitarian, Rock Springs, WY

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pacific Power & Light Company, Green River Water Treatment Plant, 1973-74
Plant Expansion, Phase II, Green River, Wyoming

ARCHITECT OR ENGINEER: Prepared and submitted by Pacific Power & Light Company,
Public Service Building
Portland, Oregon 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 74-6R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 7, 1974

ACTION: Construction Authorized

COMMENTS:

This review is based on a letter of April 5, 1974 from Mr. Chester E. Elston-
Senior Water Systems Engineer, pertaining to the two comments of our review
No. 74-6 of March 1, 1974.

RHP:mp
6-12-74

cc: Phil Hughes, District Sanitarian, Rock Springs

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Keyhole State Park Headquarters Building and related sewage disposal system, Crook County, Wyoming

ARCHITECT OR ENGINEER: Designed by Bob Drabish, State Recreation Designer, submitted by Malcolm Martin, Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7a

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: January 23, 1974

ACTION: Authorization for construction withheld pending receipt of additional information.

COMMENTS:

DRAIN FIELD

1. Details of the drain field not indicated. Trench width and depth and depth of drain field required for review. Percolation tests should be made and this test data also submitted to review adequacy of drain field.
2. For efficient functioning of the drain field the ends of tile fields should be tied together.

FRH:mp
1-25-74

cc: Malcolm Crawford, District Sanitarian, Gillette

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Keyhole State Park Headquarters
Building and related sewage disposal system Crook County,
Wyoming

ARCHITECT OR ENGINEER: Designed by Bob Drobish, State Recreation Designer,
submitted by Malcolm Martin, Wyoming Recreation
Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7aR

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: January 31, 1974

ACTION: Authorized for Construction

COMMENTS:

FRH:mp
2/1/74

cc: Malcolm Crawford, District Sanitarian, Gillette

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

Wyoming Recreation Commission
PROJECT: Glendo State Park Headquarters Building and related sewage disposal system, Platte County, Wyoming

ARCHITECT OR ENGINEER: Designer - Bob Drabish, State Recreation; submitted by Malcolm Martin, Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7b

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: January 23, 1974

ACTION: Authorized for Construction

COMMENTS:

FRH:mp
1/25/74

cc: Malcolm Crawford, District Sanitarian, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Curt Gowdy State Park Headquarters
Building and related sewage disposal system, Laramie County,
Wyoming

ARCHITECT OR ENGINEER: Designed by Bob Probish, State Recreation Designer,
submitted by Malcolm Martin, Wyoming Recreation
Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7c

REVIEWING ENGINEER: Frank P. Harman, P.E.

DATE OF REVIEW: January 23, 1974

ACTION: Authorization for construction withheld pending receipt of
additional information.

COMMENTS:

DRAIN FIELD

1. Details of drain field not indicated. Trench width and depth
of drainfield required for review. Percolation tests should be
made and this test data also submitted to review adequacy of
drain field.
2. For efficient functioning of the drain field, the ends of the
tile field should be tied together.

RH: p
1-25-74

cc: Don Pack, Sanitarian, City-County Health Unit, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Curt Gowdy State Park Headquarters
Building and related sewage disposal system, Laramie County,
Wyoming

ARCHITECT OR ENGINEER: Designed by Bob Drobish, State Recreation Designer;
submitted by Malcolm Martin, Wyoming Recreation
Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7CR

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: January 31, 1974

ACTION: ~~Authorized for Construction~~

See revision

COMMENTS:

FRH:mp
2/1/74

cc: Don Pack, City-County Health Unit, Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: **Wyoming Recreation Commission, Curt Gowdy State Park Headquarters Building and Related Sewage Disposal, Laramie County, Wyoming**

ARCHITECT OR ENGINEER: **Plan prepared and submitted by Wyoming Recreation Commission, Cheyenne**

WATER QUALITY DIVISION REFERENCE NUMBER: **74-7cRR**

REVIEWING ENGINEER: **Frank R. Harman, P.E.**

DATE OF REVIEW: **April 9, 1974**

ACTION: **Authorized for Construction**

COMMENTS:

FRH:mp
4-16-74

cc: **Don Pack, Sanitarian, City-County Health Unit, Cheyenne**

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Recreation Commission, Curt Gowdy State Park Headquarters Building and related sewage disposal system, Laramie County, Wyoming

ARCHITECT OR ENGINEER: Designed by Bob Drobish, State Recreation Designer; submitted by Malcolm Martin, Wyoming Recreation Commission

WATER QUALITY DIVISION REFERENCE NUMBER: 74-7cR (Revised)

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: February 5, 1974

ACTION: Not authorized for construction.

COMMENTS:

Due to the nature of the crushed granite formation underlying the whole area, affording fast seepage and close proximity to the Granite Reservoir, septic tank systems are banned in the whole area. All homes in the area and subdivisions are being required to use vault toilets.

Previous authorization of January 31, 1974, retracted. An alternative method should be considered.

FRH:mp
2-7-74

cc: Don Pack, City-County Health Unity; Cheyenne

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Big Horn County Hospital Addition, Stabilization Pond
Expansion, Greybull-Basin, Big Horn County, Wyoming

ARCHITECT OR ENGINEER: cta Architects/Engineers/Planners, Billings, Montana
P.O. Box 1456, 59103

WATER QUALITY DIVISION REFERENCE NUMBER: 74-8

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: January 31, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering
Standards

COMMENTS:

Proposal No. 1 (change inside embankment slope to 3:1; install new 8"
effluent pipe 3' above pond bottom)

1. Odor conditions can be expected due to organic overload (43.6#
BOD/acre vs. 20-25#/acre recommended).
2. The degree of treatment will most probably be reduced^{due} to a near
100% increase in BOD loading and only a 44% increase in surface
area and only a 76% increase in pond volume.

Proposal No. 2 (change depth from 3' to 6'; install new 8" effluent
pipe 3' above pond bottom)

1. Odor conditions can be expected due to organic overload (37.8#
BOD/acre vs. 20-25#/acre recommended).
2. Maintenance for removal of settled sewage solid will be excessive
in the section of sewer interceptor receiving the sewage back-up
caused by the 6' depth proposed in the oxidation pond.

General

In order to meet the 1977 effluent discharge standards (of 30 ppm
in BOD, 30 ppm suspended solids and 200 fecal coliform organisms per
100 milliliters) consideration should be given to providing additional
treatment at this time such as aeration, holding, etc.

RHP;mp
2/4/74

cc: Bill George, District Sanitarian, Worland

Mr. Chris Cronberg, Administrator, So. Big Horn County Hospital,
Greybull, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Big Horn County Hospital Addition, Stabilization Pond
Expansion, Greybull-Basin, Big Horn County, Wyoming

ARCHITECT OR ENGINEER: CTA Architects/Engineers/Planners
P.O. Box 1456
Billings, Montana

WATER QUALITY DIVISION REFERENCE NUMBER: 74-8R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: February 26, 1974

ACTION: Alteration of the existing stabilization pond in accordance
with Proposal No. 1 of the plans is authorized.

COMMENTS:

It may be necessary in the future to provide additional treatment
in order to comply with the treated effluent standards which go into
effect on July 1, 1977. These are maximum allowable levels and consist
of 30 ppm suspended solids, 50 parts per million BOD and 200 fecal
coliform organisms per 100 milliliters.

RHP:mp

2-27-74

cc: Bill George, District Sanitarian, Worland

Mr. Chris Cronberg, Administrator, South Big Horn County Hospital,
Greybull, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Snake River Venture, Hawes Property Subdivision, Preliminary
Water and Sewer System, consisting of 30 residential and
commercial units, Teton County, Wyoming
ARCHITECT OR ENGINEER: Frasier & Gingery, Inc., 2340 South Vallejo Street
Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 74-10

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: February 8, 1974

ACTION: Authorized for Construction contingent upon meeting these
recommendations.

COMMENTS:

64-4

175 G/3F10
5150

1. The 10,000 GPD sewage treatment facility will accommodate a population equivalent of 100. Prior to commencing any construction designed to increase the population equivalent, additional authorization will be required.
2. Water and sewer systems are to be installed in accordance with "10 States Standards" with particular attention to points where water lines and sewer lines cross.
3. The leaching field must be located a minimum of 4 feet above the maximum groundwater level and 50 feet from any stream or water course and installed in accordance with "Minimum Standards for Private Sewage Disposal Systems".
4. The turbine pump installation for the water supply system should be sealed by allowing the casing to project one inch above the concrete casing seal and specifying a recessed base turbine pump.
5. The approval of the State Department of Fire Prevention and Electrical Inspection will be required as well as the concurrence of the Teton County Planning officials.

PCS:mp
2/14/74

15,000
75

Enclosure Minimum Standards for Private Sewage Disposal Systems

cc: Corky Moyer, Teton County Subdivision Officer, P.O. Box 1727,
Jackson, WY

Ed Bradley, Fire Prevention & Electrical Safety, Cheyenne

[Handwritten signature]

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Snake River Venture, Hawes Property Subdivision, PRELIMINARY
Water & Sewer System consisting of 30 residential and
commercial units, Teton County, Wyoming
ARCHITECT OR ENGINEER: Frazier & Gingery, Inc., 2840 South Vallejo Street
Englewood, Colorado 80110

WATER QUALITY DIVISION REFERENCE NUMBER: 74-10R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 25, 1974

ACTION: Authorized for Construction contingent on compliance with the
comments set forth below.

COMMENTS:

This review covers the original plans and letters of March 11 & 19, 1974 from Frazier & Gingery and a letter of March 21, 1974 from W.N. Barnard. The letters refer to the location and sizing of the leaching field which will receive the treated effluent from the proposed sewage treatment plant.

1. The 10,000 GPD treatment facility is designed to accomodate a population equivalent of 100.
2. Water and sewer systems shall be installed and disinfected in accordance with "10 States Standards"* with particular attention to points where water and sewer lines cross.
3. The leaching field is to be located a minimum of 4 feet above the maximum groundwater level and 50 feet from any stream or water source as set forth in the above referenced correspondence. The leaching field shall be installed in accordance with "Minimum Standards for Private Sewage Disposal Systems" of the Wyoming Dept. of Health and Social Services.
4. The turbine pump installation for the water supply system shall be mounted on a concrete pedestal at least 6 inches above the pump-house floor and shall be sealed by allowing the well casing to project one inch above the concrete casing seal and specifying a recessed base turbine pump.

*"Recommended Standards for Sewage Works of the Great Lakes-Upper Mississippi River Board of State Sanitary Engineers" and "Recommended Standards for Water Works of the Great Lakes-Upper Mississippi Board of State Sanitary Engineers".

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Snake River Venture, Hawes Property Subdivision, PRELIMINARY
Teton County, Wyoming

ARCHITECT OR ENGINEER: Frazier & Gingery, Inc.

WATER QUALITY DIVISION REFERENCE NUMBER: 74-10R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 25, 1974

ACTION: Authorized for Construction contingent on compliance with
the comments set forth below.

COMMENTS:

5. The approval of the State Department of Fire Prevention and Electrical Inspection will be required as well as the concurrence of the Teton County Planning officials.
6. Prior to commencing any construction designed to alter or extend the water supply system or to increase the population equivalent loading of the treatment facility above 100, additional authorization will be required following receipt and review by this Department of complete plans and specifications covering the proposed addition.
7. Adequately protect against entry all units which may endanger human life.
8. Provide water under pressure at the sewage treatment plant for cleaning and flushing purposes. Adequate facilities shall be provided for protection of the potable water supply against backsiphonage of wastewater.

RHP:mp
3/28/74

cc: John C. Moyer, Teton County Subdivision Officer, P.O. Box 1727,
Jackson, WY

Xerox to

3-29-74

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Sanitary Sewer for Kelly Heights Addition,
Trojan & Kelly Streets, Casper, Wyoming

ARCHITECT OR ENGINEER: Casper Board of Public Utilities,
156 West 8th Street
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-11

REVIEWING ENGINEER: William L. Garland, P.E.

DATE OF REVIEW: February 19, 1974

ACTION: Authorized for Construction

COMMENTS: None

WLG:mp

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

Bank

February 20, 1974

Mr. Jack F. Mueller
Mueller Engineering, Inc.
Plaza Office Building A, Suite 7
1629 Avenue D
Billings, Montana 59102

RE: 74-12

Dear Jack:

I am writing in reference to your letter and plans forwarded to this office on January 29, 1974. We appreciate your effort in keeping our office up-to-date on projects during the planning and preliminary design stages. This policy tends to expedite plan reviews by our office in the final stages of design.

At this point, I have relatively few comments to make concerning this project. We generally follow the "Ten States Standards" as design guidelines for water supply and sewerage works. Also, you should keep in mind that if at any time during the year, waste flows are discharged to a receiving stream, you are required to apply to the Regional Office of the Environmental Protection Agency for a permit to discharge. This application must be made prior to operation of the facility. On a number of projects submitted for approval by other parties, solid waste disposal was not a consideration. In subdivisions that are removed sufficiently from a municipality, solid waste disposal can possess serious problems in terms of economics and available land area. We hope you will give some attention to this area of concern and such stipulations should be included in final design documents.

If we can be of any further assistance, please feel free to contact us.

Sincerely,

William L. Garland, P.E.
Sanitary Engineer

WLG:bb

2-15-74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Easter Seal Society Rehabilitation and Recreational Facility,
Temporary Sewage System, Johnson County, Wyoming (on Clear Creek)

ARCHITECT OR ENGINEER: None

WATER QUALITY DIVISION REFERENCE NUMBER: 74-13

REVIEWING ENGINEER: Roy E. Prior

DATE OF REVIEW: February 13, 1974

ACTION: Reviewed for compliance with States Standards

COMMENTS:

This set of plans is a confirmation of an already constructed facility. The plans for the system were discussed with this office at the time of construction.

Because there are not any plans for discharge at the present time, you are in compliance with the Water Quality Standards of Wyoming. At such time as you expand your operations and change the sewage system, plans must be sent to this office for approval to construct.

REP:mp
2/15/74

cc: City Clerk, Town of Buffalo, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Poison Spider School Chlorination System, Casper, Wyoming

ARCHITECT OR ENGINEER: None; Submitted by E.J. DeWitt, Master Electrician, Natrona County School District #1, Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-14

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: February 12, 1974

ACTION: Construction Authorized subject to compliance with the comments set forth below.

COMMENTS:

1. Locate both of the 120 gallon retention tanks ahead of the pump and pressure tank.
NOTE: To utilize all the retention capacity, one tank should be layed on its side or otherwise located below the water surface in the retention tank which will have its water level controlled by the float switch.
2. Limit the pump capacity to 5.5 gallons per minute when pumping against the average pressure to be maintained in the pressure tank.
NOTE: This will assure 20 minutes contact time in the retention tanks which have a combined effective retention capacity of 110 gallons (half of 120 + 100). If it becomes necessary to increase the pump capacity additional retention tank capacity should be provided to maintain a combined effective retention volume equal or greater than the volume the pump can pump in forty minutes when operating against the average pressure to be maintained in the pressure tank.
3. Introduce the chlorine solution upstream from the first retention tank.
4. Synchronize the operation of the chlorinator with the filling of the retention tank (which will have its water controlled by the float switch).

RHP:mp

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

Mr. Gene Snider, Ass't. Superintendent, Business Affairs, Natrona Co. School District #1, Eighth & Elm Street, Casper

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Evansville, Water & Sewer Relocation and Extension for Lierd and Miracle Addition, Evansville, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering
Box 2354
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-15

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 13, 1974

ACTION: Construction authorized contingent upon compliance with the comments set forth below

COMMENTS:

1. Alter the "Disinfection and Flushing of Water Mains" procedure to require that the water main be filled "at a velocity of less than one foot per second" after the disinfecting tablets have been inserted.
2. Alter the first paragraph of the section entitled, "Water Mains Paralleling or Crossing Sewer Lines" to read: "Water mains paralleling.....of 10 feet or, when local conditions, when determined by the engineer, prevent a horizontal separation of 10 feet, the water main may be laid closer to a sewer provided that the bottom of the water main is at least 18 inches above the top of the sewer."

NOTE: As per our telephone conversation of 3-13-74 with Mr. Robert L. Streeter, Jr. it is understood that an addendum covering comments 1 and 2 will be submitted to this office.

RHP:mp
3/18/74

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Evansville, Water & Sewer Relocation and Extension for Lierd and Miracle Addition, Evansville, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering
Box 2354
Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-15R

REVIEWING ENGINEER: Robert H. Pinther

DATE OF REVIEW: March 22, 1974

ACTION: Construction Authorized contingent upon compliance with Comment No. 2 set forth below.

COMMENTS:

1. This review covers a re-check of the specifications and Addendum No. 1 pertaining to: 1) "Disinfection and Flushing of Water Mains" and 2) "Water Mains Paralleling or Crossing Sewer Lines".

2. Refer to Page S-5, Section 1.2e. Insert following the second sentence of paragraph 2 (which ends with the words "can be made") the following sentence: "When local conditions prevent a vertical separation of 18 inches as set forth above, sewers passing under water mains shall be constructed to water main standards and pressure tested."

RHP:mp
3/28/74

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

one copy of Addendum being returned

hook

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: **Town of Evansville, Water & Sewer Relocation and Extension for Lierd and Miracle Addition, Evansville, Wyoming**

ARCHITECT OR ENGINEER: **Sigma Engineering, Box 2354, Casper, Wyoming**

WATER QUALITY DIVISION REFERENCE NUMBER: **74-15RR**

REVIEWING ENGINEER: **Robert H. Pinther, P.E.**

DATE OF REVIEW: **November 26, 1974**

ACTION: **Construction Authorized**

COMMENTS:

This review covers the Engineer's letter of 6-28-74 stating that the bottom of the water main will be in excess of 18 inches above the top of the sewer line at the one location where these lines cross.

RHP:jk

11-26-74

cc: **Nix Anderson, Casper-Matrona County Health Department, Casper, Wyoming**

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Sanitary Sewer Extension, Asbell Addition
Antler Drive, Casper, Wyoming

ARCHITECT OR ENGINEER: Global Engineering, Box 532, Casper; Submitted by
Casper Board of Public Utilities, 136 West 8th Street,
Casper

WATER QUALITY DIVISION REFERENCE NUMBER: 74-16

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 1, 1974

ACTION: Construction authorized subject to compliance with the comment
set forth below.

COMMENTS:

All house sewers, storm sewers and sanitary sewers which cross the water main should, whenever possible, be laid below the water main to provide a separation of at least 18 inches between the bottom of the water main and the top of the sewer. When local conditions prevent the aforementioned vertical separation, sewers passing over or under the water main should be constructed of materials and joints that are equivalent to water main standards of construction and pressure tested to assure watertightness prior to backfilling.

RHP:mp
3/6/74

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pacific Power & Light Company, Wyodak Station - Sanitary Waste Treatment Facility, Wyodak, Wyoming

ARCHITECT OR ENGINEER: Specifications submitted by Gary L. Larsen, Project Coordinator, Pacific Power & Light Company, Public Service Building, Portland, Oregon 97204

WATER QUALITY DIVISION REFERENCE NUMBER: 74-10

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: February 20, 1974

ACTION: Authorized for Construction

COMMENTS:

Authorized on the basis of performance required on page 1-5 of the specifications.

Reaffirmed that no discharge permit is required as it will be a closed system with no discharge into any stream.

FRH:mp
2/21/74

cc: Malcolm Crawford, District Sanitarian, Gillette

60k

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming State Highway Department, Cassa Rest Area Sewage Treatment Plant, Platte County, Wyoming

ARCHITECT OR ENGINEER: Jon L. Anderson, Wyoming State Highway Department
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-19

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: February 25, 1974

ACTION: Construction authorized contingent upon compliance with comments 1-4 set forth below.

COMMENTS:

1. In reference to the specifications, item "1b. Organic loading" on page 15-6 and item "2d. Aeration Tank, sub 1." should both have added on the end the words: "per day".
2. In reference to the specifications, item "2f. Settling Tank (Clarifier)" on page 15-8 should read, "The surface overflow rate shall not....area."
3. The polishing pond should not be located in the flood plain of any stream, creeks or river and Mr. Jon Anderson informed the writer by phone on February 20, 1974 that the polishing pond is not located in any such flood plain.
4. It is understood that a frost-proof valve of the sanitary (not stop and waste) type will be substituted for the "ground hydrant" specified.
5. It may be necessary in the future to provide additional treatment of the sewage in order to comply with the treated effluent standards which go into effect on July 1, 1977. These are maximum allowable levels and consist of 30 parts per million suspended solids, 30 parts per million BOD and 200 fecal coliform organisms per 100 milliliters.

RHP:mp
3/6/74

cc: Malcolm Crawford, District Sanitarian, Gillette

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Mills 8-inch Sanitary Sewer Extension, Peterson Addition
#3, Mills, Wyoming

ARCHITECT OR ENGINEER: Worthington, Lenhart, Carpenter & Ladd, Inc.
632 South David
Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-20

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: April 15, 1974

ACTION: Construction Authorized

COMMENTS:

The specifications for this project were approved by Sanitary Engineer Services, Department of Health & Social Services as revised (Sanitary Engineering Services Ref. No. 73-27R) on April 24, 1973.

RHP:mp
4-16-74

Enclosure: one copy of plans

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of South Superior, Preliminary, Proposed Sewage System
South Superior, Wyoming

ARCHITECT OR ENGINEER: David P. Miller
P.O. Box 422

Rock Springs, WY
WATER QUALITY DIVISION REFERENCE NUMBER: 74-21

REVIEWING ENGINEER: Paul C. Schwieger, P.E., Roy E. Prior

DATE OF REVIEW: March 22, 1974

ACTION: Authorization to continue to final plans and specifications

COMMENTS:

In the preparation of the final specs and plans, we request that consideration be given to the following:

1. Does this system have capabilities to serve all developable tracts in South Superior; ie: are the main collector lines large enough to allow expansion.
2. Include design criteria for lagoon. 10 States Standards should be followed in the design of the lagoon, ie:
 - a. population factor (100 people/acre)
 - b. volume factor
 - c. topography of lagoon site
 - d. soils and percolation tests
 - e. 3 foot free board
 - f. operating depth of 2 to 5 feet
 - g. side slopes should be a maximum of 3:1
 - h. minimum of 8 feet travelway on top of lagoon dykes
 - i. outlets from each cell should be constructed as to withdraw the liquid from below the algae layer and above the sludge layer
 - j. 1977 NPDES standards will apply to discharge, ie:
 - 30 ppm BOD
 - 30 ppm suspended solids
 - 200 fecal coliform colonies/100 ml
3. There should be only one discharge pipe from the treatment facility. More pipes require more discharge permits. These extra discharges would require a minimum of secondary treatment also.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of South Superior, Preliminary, Proposed Sewage System
South Superior, Wyoming

ARCHITECT OR ENGINEER: David F. Miller, Rock Springs, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-21

REVIEWING ENGINEER: Paul C. Schwieger, Roy E. Prior

DATE OF REVIEW: March 22, 1974

ACTION: Authorization to continue final plans and specs

COMMENTS:

4. Based on dimensions given, proposed lagoon will only accommodate 140 people (1.4 acres). According to 1970 census (197 people) we would recommend a 3-cell lagoon as follows:

first cell	2.5 acres	} for total containment (no discharge)
second cell	2.0 acres	
third cell	1.0 acres	

The first and second cells should be either lined to prevent excessive percolation or monitoring wells placed around them to insure that the ground water will not be polluted. Chlorine should be applied between the second and third cells to kill algae and prevent ground water pollution. At some future time when increases in population require the third cell to discharge provisions should be incorporated to allow the chlorination of the effluent.

mp
3/26/74

End

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Brooks Water & Sewer District, Mountain View Subdivision, Water System Improvements, Steel Water Storage Reservoir, Natrona County, WY

ARCHITECT OR ENGINEER: Sigma Engineering
Box 2354

Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-22

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 20, 1974

ACTION: Construction Authorized subject to compliance with the comments set forth below

COMMENTS:

1. The engineer has stated that the storage tank will be located at an elevation which will supply water to the distribution system at a static pressure within the range of 60 to 105 pounds per square inch.
2. In a letter of March 16, 1974 to this Department the engineer has indicated that the following will be accomplished in connection with this project:
 - a. The disinfection of the water storage reservoir will be accomplished strictly in compliance with the applicable section of AWWA Standard D102-64.
 - b. The water storage reservoir vent hood will extend vertically below the screened opening at least 2 inches.

RHP:mp
3/28/74

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Warm Springs Subdivision Sewer System, Dubois, Wyoming

ARCHITECT OR ENGINEER: Nelson, Haley, Patterson & Quirk, Inc.
625 East Madison
Riverton, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-23R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 6, 1974

ACTION: Construction authorized contingent upon submission to this
Division of an addendum making ASTM designation D 2321-67
a part of the job specifications.

COMMENTS:

This review is based on information submitted in a letter
from the Engineer dated April 9, 1974.

RHP:mp
5-7-74

cc: Bill George, District Sanitarian, Worland

5-10-74 Addendum No 1 and letter received

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Warm Springs Subdivision, Sewer System, Dubois, Wyoming

ARCHITECT OR ENGINEER: Nelson, Haley, Patterson and Quirk, Inc.,
625 E. Madison
Riverton, Wyoming 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 74-23

REVIEWING ENGINEER: Robert H. Pinther

DATE OF REVIEW: March 21, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering standards.
Please submit the changes set forth below.

COMMENTS:

1. The plastic sewer line should be laid, bedded, and backfilled in accordance with ASTM Designation: D2321-67 entitled: "Recommended Practice for Underground installation of Flexible Thermoplastic Sewer Pipe". A copy of this standard is enclosed.
2. If there is any danger of undermining by erosive action, the section of the sewer to be laid under the river between manholes Nos. 3 and 4 and the section of sewer to be laid under the draw between manholes Nos. 23 and 24 shall be designed to prevent sagging or possible collapse.
3. Specify a horizontal separation of at least 10 feet from all water and sewer mains.
4. Show existing water and sewer main crossings including relative elevations.
5. Specify compliance at existing and future water and sewer crossings with the enclosure entitled, "Part 8, Distribution Systems, 8,4,3, crossings".

RNP:bb

3-29-74

Good

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Scott Realty, Aerobic Sewage Treatment Facilities for 40 homes,
Natrona County, Wyoming

ARCHITECT OR ENGINEER: None indicated; prepared by Citizens Industries, Inc.
1196 South Bannock Street
Denver, Colorado 80223

WATER QUALITY DIVISION REFERENCE NUMBER: 74-24

REVIEWING ENGINEER: Robert K. Pinther, P.E.

DATE OF REVIEW: March 8, 1974

ACTION: Construction authorized subject to compliance with comments

COMMENTS:

1. To avoid the necessity of providing additional treatment after the plant is in operation the treated effluent should contain a monthly average of not more than 30 parts per million of 5-day BOD, 50 parts per million suspended solids, and 200 coliform organisms per 100 milliliters. These requirements must be met before the discharge permit is issued.
2. Provide a test kit capable of measuring chlorine residual levels in the treated effluent in increments of 0.2 parts per million in the range of 0 to 2.0 parts per million.
3. Adequately protect against entry to all units which may endanger human life.
4. Provide access to the settling basin for the purpose of removing solids.
5. Provide water under pressure for cleaning and flushing purposes. Adequate facilities should be provided for protection of the water supply against backsiphonage of wastewater.

RHP:mp
3-11-74

cc: Casper-Natrona County Health Dept., Casper, Wyoming

1 set of plans returned

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Grand Teton National Park, Jackson Lake Lodge Wastewater Disposal System, Teton County, Wyoming

ARCHITECT OR ENGINEER: Donald A. Purse, Midwest and Rocky Mountain Teams,
U.S. Dept. of Interior, National Park Service,
P.O. Box 25287, Denver, Colorado 80225

WATER QUALITY DIVISION REFERENCE NUMBER: 74-25

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: March 29, 1974

ACTION: Authorized for Construction contingent upon comments below

COMMENTS:

Percolation and evaporation rates on two unlined lagoons should coincide with design flow rate.

PCS:mp
4/5/74

2100

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Mills Water Main Extension, Peterson Addition No. 3
Mills, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering
Box 2354
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-26

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: March 13, 1974

ACTION: Construction authorized contingent upon compliance with the
comments set forth below

COMMENTS:

1. Alter the "Disinfection and Flushing of Water Mains" procedure to require that the water main be filled "at a velocity of less than one foot per second" after the disinfecting tablets have been inserted.
2. Alter the first paragraph of the section entitled, "Water Mains Paralleling or Crossing Sewer Lines" to read: "Water mains paralleling.....of 10 feet or, when local conditions when determined by the engineer, prevent a horizontal separation of 10 feet, the water main may be laid closer to a sewer provided that the bottom of the water main is at least 18 inches above the top of the sewer."

NOTE: As per our telephone conversation of 3-13-74 with Mr. Robert L. Streeter II it is understood that an addendum covering comments Nos. 1 and 2 will be submitted to this office.

RHP:mp
3-18-74

cc: Nix Anderson, Casper-Natrona County Health Dept., Casper

Boalc

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Mills, Water Main Extension, Peterson Addition No. 3
Mills, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering
Box 2354
Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-26R

REVIEWING ENGINEER: Robert H. Pinther

DATE OF REVIEW: March 22, 1974

ACTION: Construction Authorized contingent upon compliance with Comment
No. 2 set forth below.

COMMENTS:

1. This review covers Addendum No. 1 pertaining to: 1) "Disinfection and Flushing of Water Mains" and 2) "Water Mains Paralleling or Crossing Sewer Lines".

2. Refer to Page S-5, Section 1.2e. Insert following the second sentence of paragraph 2 (which ends with the words "can be made") the following sentence: "When local conditions prevent a vertical separation of 18 inches as set forth above, sewers passing under water mains shall be constructed to water main standards and pressure tested."

RHP:mp
3/28/74

Enclosure: One copy of Addendum being returned to Engineer

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Mills, Water Main Extension, Peterson Addition No. 3, Mills, Wyoming

ARCHITECT OR ENGINEER: Sigma Engineering, Box 2354, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-26RR

REVIEWING ENGINEER: Robert E. Pinther, P.E.

DATE OF REVIEW: November 26, 1974

ACTION: Construction Authorized

COMMENTS:

This review covers the Engineer's letter of 6-28-74 stating that there are no water and sewer crossings involved in this construction.

RHP:jk
11-27-74

cc: Nix Anderson, Casper-Natrona County Health Department, Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper Water and Sewer Main Extensions, Longview No. 2 Addition,
Casper, Wyoming

ARCHITECT OR ENGINEER: J.W. Metzler, Billings, Montana; Submitted by Casper Board
of Public Utilities, 136 West 8th Street, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-27

REVIEWING ENGINEER: Robert E. Pinther, P.E.

DATE OF REVIEW: April 19, 1974

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards.
Please submit the necessary information as set forth in the comments.

COMMENTS:

1. Will "Regulations for Sanitary Sewers Construction" as adopted by the Casper Board of Public Utilities on September 30, 1954, be used as specifications for the sewer extension in this project? If not, please submit at least two copies of the specifications to be used on this project.

2. Provide an infiltration limitation of 10,000 gallons per mile per day or 500 gallons per inch per mile per day in the sewer specifications.

3. Submit specifications covering the proposed water main extensions.

4. Provide the protection at water and sewer pipe crossings in both the water and sewer specifications as set forth in Section, "6.4.3 Crossings" of the enclosure entitled, "Part 8 Distribution Systems".

5. Show or indicate on plans the location of water mains in relation to sewers at points where they cross and the distances of vertical separation at these crossings.

6. Specify and/or show on the plans a minimum horizontal separation of 10 feet between water mains and any sanitary sewer, storm sewer or sewer manhole. NOTE: Section 6.4.22 of the aforementioned enclosure sets forth acceptable construction when "unusual conditions" prevent a 10 foot horizontal separation between water and sewer lines.

RHP:mp
4-23-74

Enclosure

cc: J.W. Metzler, 1113 Yale Avenue, Billings, Montana

Nix Anderson, Casper-Natrona County Health Dept., Casper, WY

Back

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper Water & Sewer Main Extensions, Longview No. 2
Addition, Casper, Wyoming

ARCHITECT OR ENGINEER: J.W. Metzler, Billings, Montana; Submitted by
Casper Board of Public Utilities, 136 West 8th
Street, Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-27R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 29, 1974

ACTION: Reviewed for Compliance with Acceptable Sanitary Engineering
Standards. Please submit the necessary information as set
forth in the comments.

COMMENTS:

1. At what strength residual chlorine will the water mains be dis-
infected?
2. Use Permatex No. 1 or equal in non-toxicity to stick the calcium
hypo-chlorite tablets to the top of each water main.
3. Please respond to comments Nos. 2, 4, 5 and 6 of our review
bearing Water Quality Division Reference No. 74-27, dated
April 19, 1974.

RHP:mp
6-3-74

cc: J.W. Metzler, 1113 Yale Avenue, Billings, Montana
Nix Anderson, Casper-Natrona County Health Dept., Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
 WATER QUALITY DIVISION
 State Office Building
 Cheyenne, Wyoming 82002

PROJECT: City of Casper, Water and Sewer Mainlines, Lotwise No. 2 Addition,
 Casper, Wyoming

ARCHITECT OR ENGINEER: J. H. Metzler, Fillings, Montana. Submitted by
 Casper Board of Public Utilities, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-273

REVIEWING ENGINEER: Robert L. Miller, P.E.

DATE OF REVIEW: July 25, 1974

ACTION: Construction Authorized with conditions

COMMENTS:

This review is based on Mr. C.G. Anderson's letter of July 25, 1974, and amendments to Specifications for Sanitary Sewer Construction, June 9, 1974.

1. Provide a minimum horizontal separation of 10 feet between water and sewer mains on Curtin Street between lots 10. 2 and 10. 3.

2. Please submit an addendum to your Water Main Specifications pertaining to the employment of water main disinfection (AWA Standard 2000-6) as set forth on page 2 of Mr. Anderson's letter of July 25, 1974 directed to the writer.

3. Although as Mr. Anderson has pointed out in his letter, all water mains are located more than 18 inches above sewer mains where they cross, consideration might be given to inserting in the water and sewer specifications the recommended Section "S.A.1 Crossings" (See comment 5 of our review 74-27 of April 10, 1974), to cover any future plans on which this special protection might be required.

RPM:rh
 7-30-74

cc: J. H. Metzler, 1113 Yale Avenue, Fillings, Montana
 Kirk Anderson, Casper-Natrona County Health Department, Casper, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Cloud Peak Ranchettes, PRELIMINARY Plan, Buffalo, Wyoming

ARCHITECT OR ENGINEER: Plains Engineering, Buffalo Division
P.O. Box 432, Buffalo, WY 82834

WATER QUALITY DIVISION REFERENCE NUMBER: 74-28

REVIEWING ENGINEER: Roy E. Prior

DATE OF REVIEW: March 27, 1974

ACTION: Continue with plans

COMMENTS:

At this time there appears to be no problem with individual sewage disposal systems and water supply systems for a subdivision of this size. As stated in your letter, the covenants should contain a section that the individual owners should have the approval of the appropriate State agency for their sewage systems before they construct the facility.

REP:mp
3/27/74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Lyman, Water Supply Line from Forman Spring
Lyman, Wyoming

ARCHITECT OR ENGINEER: Dale Crank, Johnson-Fermelia and Crank, Inc.
P.O. Box 631
Kemmerer, WY 83101

WATER QUALITY DIVISION REFERENCE NUMBER: 74-29

REVIEWING ENGINEER: Paul C. Schwieger, P.E. 

DATE OF REVIEW: March 28, 1974

ACTION: Authorized for Construction of waterline only contingent
upon these comments.

COMMENTS:

- A. Lines will be installed in accordance with "10 States Standards".
- B. Lines will be flushed and chlorinated.
- C. Additional details will be submitted for spring box and water collection system as this review is for lines only.
- D. Lines will be laid in trenches of 6 feet minimum depth, hydraulic bedding and compacted to 95% density.

PCS:mp
3/29/74

cc: Town Clerk, Town of Lyman, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Water and Sewer Extension, Westwood #2 Addition Commercial Tract #1, Casper, Wyoming

ARCHITECT OR ENGINEER: Worthington, Lenhart & Carpenter, Casper, Wyoming; Submitted by Casper Board of Public Utilities, 136 West 8th Street, Casper, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-30

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 7, 1974

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards. Please submit the necessary information as set forth in the comments below.

COMMENTS:

Provide the changes in the water and sewer specifications as set forth in our review No. 74-27R pertaining to the Longview Addition dated May 29, 1974.

RHP;mp
6-12-74

cc: Worthington, Lenhart & Carpenter, Casper

Nix Anderson, Casper-Natrona County Health Dept., Casper

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper, Water and Sewer Extensions, Westwood #2 Addition,
Commercial Tract #1, Casper, Wyoming.

ARCHITECT OR ENGINEER: Worthington, Lenhart, and Carpenter, Casper, Wyoming;
submitted by Casper Board of Public Utilities, 136 W. 8th Street,
Casper, Wyoming.

WATER QUALITY DIVISION REFERENCE NUMBER: 74-30A

REVIEWING ENGINEER: Robert E. Pinther, P.E.

DATE OF REVIEW: July 29, 1974

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

RUE:bb
7-30-74

cc: Nix Anderson, Casper-Natrona County Health Department, Casper, Wyoming
Worthington, Lenhart and Carpenter, 632 South David Street, Casper,
Wyoming.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: School District No. 6 Water System Improvements & Storage Reservoir - Morton, Wyoming

ARCHITECT OR ENGINEER: Nelson, Haley Patterson & Quirk, Inc.
625 East Madison
Riverton, WY

WATER QUALITY DIVISION REFERENCE NUMBER: 74-31

REVIEWING ENGINEER: Robert H. Pinther

DATE OF REVIEW: May 6, 1974

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards. Please submit the necessary changes in plans to comply with the comments set forth below.

COMMENTS:

1. Show location of well with respect to all sources of contamination (sewers, septic tanks, cesspools, etc.) within 100 feet of the well.
2. The location of a well within 10 feet of a pit is not acceptable with the exception that a pit may be used where a submersible pump is employed and the well casing is sealed at the top in a watertight manner.
3. Provide means for completely draining the storage tank.
4. Provide a raised collar at least six inches high at the valve vault manhole in order to keep surface water out.

RHP:mp
5-7-74

cc: Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: School District No. 6 Water System Improvements and Storage Reservoir,
Morton, WY

ARCHITECT OR ENGINEER: Nelson, Haley, Patterson & Quirk, Inc.
625 East Madison
Riverton, WY 82501

WATER QUALITY DIVISION REFERENCE NUMBER: 74-31R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 10, 1974

ACTION: Construction Authorized

COMMENTS:

This review covers the original plans and specifications, revised sheets
3 and 4 (marked 74-31R) and letter of May 13, 1974 from Mr. Jim Gores.

RHP:mp
6-12-74

cc: Bill George, District Sanitarian, Worland

Book

April 23, 1974

Mr. John A. Lambert
215 Walnut
Douglas, WY 82633

Dear John:

Re: Clearfield No. 1 Addition,
Water Quality Division Ref. No. 74-32
Douglas, Wyoming

As indicated during our telephone conversation on April 23, we will withhold our review of plans and specifications covering the above-referenced project while awaiting receipt of an addendum of the following:

1. Specify that the plastic water main shall be of the non-toxic type bearing the seal of approval of the National Sanitation Foundation or provide other adequate written assurance to this effect.
2. The disinfection of the water mains shall be accomplished by means of a solution containing at least 50 parts per million available chlorine in contact with the interior surfaces of the pipe for at least 24 hours. One of the disinfecting procedures set forth in AWWA Standard C601-08, Disinfection of Water Mains, shall be used.

I will plan to stop at your office on Wednesday afternoon, April 24 at about 2:00 p.m. I hope that this time is satisfactory for you.

Sincerely,

Robert H. Pinther, P.E.
Sanitary Engineer
Water Quality Division

REP;mp

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Douglas Water and Sewer Extension in Clearfield No. 1 Addition,
Douglas, Wyoming

ARCHITECT OR ENGINEER: John A. Lambert
215 Walnut
Douglas, WY 82633

WATER QUALITY DIVISION REFERENCE NUMBER: 74-32

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 10, 1974

ACTION: Construction Authorized contingent upon compliance with the comment set
forth below.

COMMENTS:

The disinfection of the water mains shall be accomplished by means of a solution containing at least 50 parts per million available chlorine in contact with the interior surfaces of the pipe for at least 24 hours. One of the disinfecting procedures set forth in AWWA Standard C601-68, Disinfection of Water Mains, shall be used. A copy of this standard is enclosed.

RHP:mp
6-13-74

Enclosure (1)

Boo!

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Allied Chemical Corporation Expansion Facilities, Evaporation Pond, Sewage Lagoon, etc. Green River, Wyoming

ARCHITECT OR ENGINEER: Allied Chemical Corporation
P.O. Box 1139R
Morristown, NJ 07960

WATER QUALITY DIVISION REFERENCE NUMBER: 74-33

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: May 6, 1974

ACTION: Authorized for Construction contingent upon compliance with comments.

COMMENTS:

1. Land Quality Division authorization for reclamation procedures is a prerequisite to Water Quality Division authorization.
2. Project plans and documents relative to total containment for plant process water and domestic sewage are in accordance with Wyoming Standards.
3. The sewage lagoon should be located a minimum of 50 feet and preferably 100 feet from the Blacks Fork River.

PCS:mp
5-6-74

cc: Homer Derrer, Land Quality Division, WDEQ

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Devils Tower National Monument, Sewage Lagoon Reconstruction,
Tower area, Crook County, Wyoming

ARCHITECT OR ENGINEER: Department of the Interior, National Park Service,
Denver Service, P.O. Box 25287, Denver, Colorado 80225

WATER QUALITY DIVISION REFERENCE NUMBER: 74-34

REVIEWING ENGINEER: Roy E. Prior

DATE OF REVIEW: May 15, 1974

ACTION: Authorized for construction contingent upon compliance with
comments.

COMMENTS:

Note should be taken of the 1977 discharge standards set by EPA.
They include a limit on fecal coliforms that can be discharged. This
facility has no chlorination equipment indicated and arrangements should
be made to meet this standard.

REP:bb
5-16-74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: State of Wyoming, University of Wyoming Replacement Sewage Lagoon at University Stock Farm, Laramie Clark Street, Albany County, Wyoming

ARCHITECT OR ENGINEER: Donald A. Carlson, Project Development Engineer
Wyoming State Highway Department
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-35

REVIEWING ENGINEER: Paul C. Schwieger

DATE OF REVIEW: May 6, 1974

ACTION: Unauthorized for Construction

COMMENTS:

New construction must meet 1977 NPDES maximum discharge standards (30 parts per million Total Suspended Solids, 30 parts per million Biochemical Oxygen Demand & a Fecal Coliform count of 200 colonies per 100 milliliters). This would require a 3 cell lagoon with chlorination.

Residual chlorine reaching a stream supporting a fishery can be no higher than 0.1 ppm.

Also, Wyoming Statute 35-462 prohibits the construction of a single cell lagoon, which would constitute a nuisance, within 1/2 mile of an inhabited dwelling or road.

PCS:mp
5-7-74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Canyon Creek Country Water System, Washakie County, Wyoming

ARCHITECT OR ENGINEER: R.L. Streeter II, M.S., P.E., Sigma Engineering
Box 2354
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-36

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 29, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards.
Please submit the necessary changes to comply with the comments set forth below.

COMMENTS:

1. Provide an effective surface water diversion ditch approximately 25 feet uphill from the spring water intake well screen and surrounding gravel pack.
2. If a marked increase in spring water turbidity or flow occurs after a rain-storm, seek a more suitable source or provide treatment consisting of at least filtration, chlorination and storage prior to discharge to the distribution system.
3. If practical provide a 10 foot depth of earth cover over the spring water intake screen and surrounding gravel pack. If it is not practical to provide this protective 10 feet of earth cover, the necessity for continuous chlorination of the water will be determined by the results of initial and routine monitoring of the sanitary safety of the spring water through the bacteriological examination of water samples submitted to the Public Health Laboratory Services of the Wyoming Dept. of Health and Social Services.
4. All joints buried less than 10 feet deep in the concrete pipe of which the spring box is constructed shall be watertight and further protected by at least 6 inches of watertight concrete.
5. The precast concrete spring cover shall make a watertight connection at a point at least 12 inches above ground level with the concrete pipe of which the spring is constructed and this joint shall be further protected with at least 6 inches of watertight concrete.
6. All other openings through the spring box walls shall be protected against the entrance of contamination into the spring by the use of permanent watertight joints protected with at least 6 inches of watertight concrete.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Canyon Creek Country Water System, Washakie County, Wyoming (con't)

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 74-36

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION:

COMMENTS:

7. Replace the flush type spring access manhole and cover with an access manhole which consists of a watertight collar extending at least 6 inches above the top of the spring cover and a watertight downward overlapping cover which extends downward at least 2 inches below the top of the 6 inch collar. Provide means for locking the manhole cover in place.
8. Terminate the discharge end of the spring box drain line to Canyon Creek at a point at least two feet above the highwater level of the creek.
9. Provide an outside watertight protective casing around all portions of the 2 inch pump suction pipe (from the spring box to the pumphouse) which are buried less than 10 feet below the surface of the ground.
10. Construct a fence which will exclude livestock from surface water runoff at all points area upstream from the spring water source.
11. Provide the access manhole in the roof of the storage reservoir with a watertight downward overlapping cover which extends downward at least 2 inches below the top of the manhole raised collar. Provide a means of locking the manhole cover in place.
12. Provide a spring water sampling tap upstream from the booster pumps.
13. It appears that no drain outlet (for draining the storage reservoir) is provided at Pressure Reducing Vault 4.

RHP:mp
6-6-74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Canyon Creek Country Water System, Washakie County, Wyoming

ARCHITECT OR ENGINEER: R. L. Streeter II, M.S., P.E., Sigma Engineering, P. O. Box 2354,
Casper, Wyoming 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-36R

REVIEWING ENGINEER: Robert H. Pinther, P.E. *R. H. Pinther*

DATE OF REVIEW: July 18, 1974

ACTION: Construction Authorized Contingent Upon Compliance With The Comments
Set Forth Below.

COMMENTS: This review is based on revised plans and Addendum No. 1 received
on July 2, 1974 and on telephone conversation of July 18, 1974 with
Mr. Streeter.

1. As per our telephone conversation with Mr. Streeter, it is our understanding that the spring access manhole will be provided with a water tight collar extending at least 6 inches above the top of the spring cover, and a water tight downward overlapping cover which extends downward at least 2 inches below the top of the 6 inch collar. Means will be provided for locking the manhole cover in place. An addendum will be submitted to this Department covering this item.
2. In reference to the access manhole in the roof of the steel storage tank we cannot approve permanent usage of the flanged and gasketed manhole cover specified, as repeated removal and replacement eventually results in the development of conditions which will allow the entrance of contamination into the tank at this location. Provide a manhole cover which overlaps vertically downward a distance of at least 2 inches around the raised manhole collar. Also, provide a locking device for this cover. A metal strap hinged at one end and provided with a hasp at the other end will accomplish the latter purpose.

RHP:cw
7-18-74

cc: John Donnell, Consulting Engineer, Box 13, Worland 82401
Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Canyon Creek Country Water System, Washakie County, Wyoming

ARCHITECT OR ENGINEER: R.L. Streeter, II Sigma Engineering, Casper, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-36RR

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: August 3, 1974

ACTION: Authorized for Construction

COMMENTS:

This review is based on Addendum No. 2, dated July 13, 1974, and a copy of a letter from the Engineer to John W. Donnell, Consulting Engineer, Worladd dated July 22, 1974. This addendum and letter outline methods of complying with the two comments of our review No. 74-36R of July 13, 1974 pertaining to this project.

RHP:bb

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Highway Department, Powell Rest Area including Water
and Sewer, Park County, Wyoming Project No. SCP 6480

ARCHITECT OR ENGINEER: Donald A. Carlson, Project Development Engineer
Wyoming State Highway Department
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-37

REVIEWING ENGINEER: William L. Garland, P.E.

DATE OF REVIEW: May 6, 1974

ACTION: Authorized for Construction contingent upon compliance
with comments.

COMMENTS:

The above project is authorized for construction as submitted to this office with the exception of the back flow devices as discussed in our phone conversation of May 6, 1974 with Howard Guile. It was agreed upon to replace the two back flow devices with single vacuum breakers at the two control vaults. Revised details will be forwarded to our office as soon as possible.

WLG:mp
5-7-74

cc: William George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Granger, Preliminary Plan for Sewage Disposal System,
Granger, Wyoming

ARCHITECT OR ENGINEER: David P. Miller, P.E., P. O. Box 422, Rock Springs, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-38

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: May 20, 1974

ACTION: Authorized to proceed with final design plans and specifications

COMMENTS:

We would suggest a 3-cell lagoon system as follows:

A. We feel that the existing septic tank will eliminate approximately 30% of the solids from Cell Number 1. Consequently, the size could be reduced from 5 acres to 3.5 acres based on a population factor of 500 persons. The 30% solids would, of course, as you indicate, be removed by pumping and burial.

B. The second and third cells should be designed as 30 day fill and draw cells.

C. The cells should be constructed with a diversion ditch around them to prevent surface runoff from entering the lagoons.

This facility must meet 1977 discharge standards and if designed as a 3-cell system with adequate control to prevent short circuiting, we feel this can be accomplished.

PCS:bb
5-21-74

cc: Sweetwater County Planner, Court House, Green River, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyoming Highway Department Project No. PE 211, Sundance
Maintenance Shop Sewage Disposal System, Sundance, Wyoming

ARCHITECT OR ENGINEER: Submitted by Donald A. Carlson, Project Development
Engineer; Wyo. State Highway Dept.
Cheyenne, Wyoming

WATER QUALITY DIVISION REFERENCE NUMBER: 74-39

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: May 7, 1974

ACTION: Authorized for Construction

COMMENTS:

FRH:mp
5-7-74

cc: Malcolm Crawford, District Sanitarian, Gillette

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Lyman Water System, Pump House at Springs (New Forman Spring) and Collection Box

ARCHITECT OR ENGINEER: None indicated; Prepared by Intermountain Pipe & Welding
P.O. Box 369
Pleasant Grove, Utah 84062

WATER QUALITY DIVISION REFERENCE NUMBER: 74-40

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 7, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering standards. Changes in the plans indicating compliance with the comments set forth below to be submitted to this Division.

COMMENTS:

A. General

1. Submit specifications covering the entire project.

NOTE: Include disinfection of spring, spring box, settling basin, all appurtenances and water transmission line to its juncture with the existing line to town by providing 24 hour contact with a chlorine solution of at least 50 parts per million available chlorine.

2. Submit plans covering the new water transmission line to its juncture with the existing line to town.

NOTE: Include details of all air-vacuum release valves, blow-off valves, etc. Air-vacuum release valves should vent in a downward turned gooseneck and a minimum one inch opening located at least two feet above ground level. Blow-offs should terminate at least two feet above the high water level of the receiving stream or ditch.

3. The plans shall bear the signature or seal of an engineer who is registered to practice in Wyoming.

B. Requirements for New Forman Spring (adjacent to the Highway)

1. Make a water tight concrete curbing to at least 10 feet below ground level.
2. Provide a water tight concrete cover joined in a water tight manner with the sides.
3. Provide a water tight manhole and cover for the spring. The manhole to be joined in a water tight manner with the spring cover.
4. Provide a ground water diversion ditch 25 feet upgrade from the spring.

C. Pumphouse - Provide:

1. Overlapping (vertically) MH Cover, hasp, strap and lock (Outside MH to be the same).

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Lyman Water System, Pump House at Springs (New Forman Spring)
and Collection Box

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 74-40

REVIEWING ENGINEER: RHP

DATE OF REVIEW: May 7, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering standards.
Changes in the plans indicating compliance with the comments set forth
below to be submitted to this Division.

COMMENTS:

2. Neoprene gasket under each MH cover.
3. Consider the matter of priming the horizontal centrifugal pump.
4. Do not route the pump discharge line through the water chamber.
5. Provide proper reservoir drain and 4 mesh screen over the discharge end.
6. Provide turned down reservoir overflow and 4 mesh screen.
7. Recommend move chlorination house from town to point where discharges
from all springs (including Forman spring) tie together. This will
give better chlorine contact time with the water prior to consumption.
This is necessary to assure the killing of all pathogenic bacteria
that may have entered any of the springs.

RHP:bb
5-14-74

cc: Phil Hughes, District Sanitarian, Rock Springs, Wyoming
Town of Lyman, Lyman, Wyoming
Bert Slavens, Supt., Intermountain Pipe and Welding Company, Inc., P. O. Box
1352, Green River, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Lyman Water System, Pump House at Springs (New Forman Spring) and Collection Box

ARCHITECT OR ENGINEER: None indicated; Prepared by Intermountain Pipe & Welding
P.O. Box 369
Pleasant Grove, Utah 84062

WATER QUALITY DIVISION REFERENCE NUMBER: 74-40R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 7, 1974

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards. Please submit the necessary additional information and/or plans as outlined below.

COMMENTS:

This review covers: 1) Drawing No. 4101-1-4-01, Pumphouse at Springs and Collection Box, date May 13, 1974 and marked "For Construction"; 2) Drawing NO. 4101-1-02, Isometric Layout for Pumphouse Piping at Springs and Collection Box and marked "For Construction". The comments under A, B & C below refer to the compliance status of the plans and specifications for this project as they relate to our comments as set forth in our review No. 74-40 of May 7, 1974.

A. General

1. We will await receipt of specifications covering the entire project.
NOTE: The water chamber below the pump room floor and the settling basin shall be completely watertight below ground level. Water stops should be provided as necessary where the walls join the floors. Complete disinfection of all water contact facilities shall be provided.
2. We will await receipt of plans covering the new water transmission line to its juncture with the existing line to town.
3. It is understood that the corrected and completed plans and specifications will bear the signature of an engineer who is registered to practice in Wyoming.

B. Submit plan and elevation views of the spring box for New Forman Spring showing compliance with the following construction features:

1. A watertight concrete curbing to at least 10 feet below ground level.
2. A watertight concrete cover joined in a watertight manner with the sides.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Town of Lyman Water System, Pumphouse at Springs (New Forman Springs)
and Collection Box

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 74-40R

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION: Reviewed for Compliance with acceptable Sanitary Engineering Standards.
Please submit the necessary additional information and/or plans as outlined
below.

COMMENTS: (continued)

3. A watertight manhole and manhole cover for the spring. The manhole joined in a watertight manner with the spring cover.
4. A surface water diversion ditch 25 feet upgrade from the spring.

C. Pumphouse

1. & 2. Overlapping covers with neoprene gasket have been designated as recommended.
3. It is understood that consideration has been given to the priming of the horizontal centrifugal pump in case automatic pump control is to be provided.
4. The pump discharge line has been routed outside the water chamber as recommended.
5. A satisfactory reservoir drain has been provided.
6. A satisfactory reservoir overflow has been provided.
7. Recommend move chlorination house from town to a point where discharges from all springs tie together. It is understood that the Town of Lyman is considering this change which will give greater assurance that all pathogenic bacteria will be eliminated by the chlorine.

RHP:mp
6-17-74

cc: Phil Hughes, District Sanitarian, Rock Springs, WY
Town of Lyman, WY
Bert Slavens, Supt., Intermountain Pipe & Welding Company, Inc., P.O. Box
1352, Green River, WY

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: High Meadow Ranch, Water System, Block 8, Boulder, Wyoming 82923.

ARCHITECT OR ENGINEER: None - Submitted by TBC Land & Recreation Development Corp.,
P. O. Box 95, Boulder, Wyoming.

WATER QUALITY DIVISION REFERENCE NUMBER: 74-41

REVIEWING ENGINEER: Paul C. Schwieger, P.E. 

DATE OF REVIEW: December 4, 1974

ACTION: Authorized for Construction contingent upon compliance with comments below.

COMMENTS:

- A. All materials used in the potable water supply and distribution systems shall bear the NSF Seal of Approval.
- B. The revised drawing B indicates the approved dwelling and recreational vehicle hookup.
- C. A minimum of 20 psi shall be maintained in the distribution system at all times.
- D. Chlorination equipment capable of maintaining 0.2 ppm residual chlorine after 30 minutes contact time, should be included as part of this water supply system.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Indian Pass Subdivision Existing and Proposed Water Lines, Park County Wyoming

ARCHITECT OR ENGINEER: None Indicated; Submitted by Mr. Stephen L. Simonton, Attorney at Law, Cody, WY.

WATER QUALITY DIVISION REFERENCE NUMBER: 74-42

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 6, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards. Please submit the necessary plans and/or specifications to comply with the comments set forth below.

COMMENTS:

1. All plastic pipe shall be of the non-toxic type bearing the seal of approval of the National Sanitation Foundation or other acceptable evidence should be submitted showing it to be of non-toxic type plastic.
 2. Submit complete specifications. These should include, but not necessarily be limited to the following:
 - A. Distribution system specifications such as trenching, method of laying pipe, care (to prevent contamination) in laying pipe, disinfection (with 50 parts per million available chlorine for at least 24 hours) prior to placing into service, pressure and leakage testing, etc.
 - B. Well, pump and pressure tank specifications such as type, weight and wall thickness of steel well casing, pressure tank size and pressure rating, pump capacities when pumping against a specified head, disinfection, etc.
 3. Submit complete plans including plan and elevation views of the well, well pump, pumphouse, pressure tank installation and booster pump, pumphouse, and pressure tank.
 4. Show the location of the well, pressure tank and booster pumphouse in respect to all sources of contamination within 100 feet such as septic tanks, cesspools, sewer lines, streams and drainage ditches, etc.
 5. Show the elevation of the well, pressure tank and booster pumphouse with respect to the surrounding area within 100 feet of each facility.
 6. Indicate relative elevations at the well, pressure tank, booster pump and at the highest and lowest points of the distribution system.
- NOTE: The system shall be designed to maintain a minimum pressure of 20 pounds per square inch at all points in the distribution system under all conditions of flow.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Indian Pass Subdivision Existing and Proposed Water Lines, Park County
Wyoming (continued)

ARCHITECT OR ENGINEER:

WATER QUALITY DIVISION REFERENCE NUMBER: 74-42

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION:

COMMENTS:

7. Where practical, dead ends shall be minimized by looping all mains.
3. Valves should be placed on all branches from the feeder main and in the feeder main at intervals of not greater than 1000 feet.
9. Each dead end should be provided with a blow-off valve for flushing purposes.
NOTE: Each blow-off pipe shall discharge at least 2 feet above the high water flow line of any stream or ditch.
10. Prior to placing the system into service, obtain two consecutive water samples from the well and distribution system which are bacteriologically safe as determined by the Public Health Laboratory Services of the Wyoming Department of Health & Social Services.

RHP:mp
6-7-74

cc: Bill George, District Sanitarian, Worland
Vern Wagler, Route 2, Cody, Wyoming

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Paradise Valley Utility Company, Water Works Improvements, Casper, Wyoming

ARCHITECT OR ENGINEER: Black & Veatch, Consulting Engineers
12075 East 45th Avenue, Suite 333
Denver, Colorado 80239

WATER QUALITY DIVISION REFERENCE NUMBER: 74-43

REVIEWING ENGINEER: Robert H. Pinther, P.E. *Robert H. Pinther*

DATE OF REVIEW: June 10, 1974

ACTION: Reviewed for compliance with acceptable Sanitary Engineering Standards.
Please submit necessary changes to obtain compliance with the comments
set forth below.

COMMENTS:

These plans and specifications include "Storage Tank Foundation - Miscellaneous Details" and "Chlorine Contact Basin".

1. Chlorine Contact Basin

- a. Provide a physical break or a blind flange in the existing 12 inch asbestos cement pipe at a point downstream from where it delivers chlorinated water to the chlorine contact basin and up stream from the point where the treated water is delivered to the 12 inch asbestos pipe for the transfer to the distribution system.
- b. Extend the open end of the air relief pipe from the air release valve up through the manhole to a point at least two feet above ground level and provide with a screened, downward-facing elbow.
- c. The rate of delivery of chlorinated water to the chlorine contact basin shall be limited to obtain a chlorine contact period of at least 20 minutes prior to delivery of water to the first customer under the minimum back pressure conditions expected to exist.
- d. Provisions should be made to prevent the entrance of surface water to the access manhole.
- e. It is recommended that a blow-off be provided from the low point of the basin for ease of cleaning and disinfection following construction or repair.
- f. Provide for disinfection by one of the methods outlined in American Water Works Association Standard D-102 or C601-68.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Paradise Valley Utility Company, Water Works Improvements, Casper, Wyoming

ARCHITECT OR ENGINEER: Black & Veatch, Denver, Colorado

WATER QUALITY DIVISION REFERENCE NUMBER: 74-43

REVIEWING ENGINEER:

DATE OF REVIEW:

ACTION:

COMMENTS:

2. New Storage Tank
 - a. Provide reservoir drain pipe and slope floor toward drain.
 - b. Submit plans and specifications covering the new storage tank super-structure. This shall include, but not necessarily be limited to, details of the 1) Access manhole (provide 6 inch raised collar and downward overlapping cover), 2) Vent pipe (provide 1/4 inch mesh screen and hood extending at least 4 inches below the screen), 3) Overflow pipe, and 4) Drain pipe.
 - c. Provide for disinfection by one of the methods set forth in AWWA Standard 3102.

RHP:mp
6-14-74

cc: Paradise Valley Utility Company, 200 Valley Drive, Casper
Nix Anderson, Casper Natrona County Health Dept., Casper

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Pacific Power & Light Company, Westside Development Area, Offsite Sewer and Water, Gillette, WY

ARCHITECT OR ENGINEER: Plains Engineering
P.O. Box 117

Gillette, WY 82716
WATER QUALITY DIVISION REFERENCE NUMBER: 74-44

REVIEWING ENGINEER: Frank R. Harman, P.E.

DATE OF REVIEW: June 10, 1974

ACTION: Construction Authorized

COMMENTS:

FRH:mp
6-12-74

cc: Malcolm Crawford, District Sanitarian, Gillette

Boat

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyodak Station - 1977 Unit Black Hills Power and Light Company
and Pacific Power and Light Company - Water and sewer expansion - Temporary
housing and mobile home parks, Wyodak, Wyoming

ARCHITECT OR ENGINEER: Stone and Webster Engineering Corporation, P. O. Box
2325, Boston, Massachusetts 02107

WATER QUALITY DIVISION REFERENCE NUMBER: 74-45

REVIEWING ENGINEER: Frank Harman, P.E., and Robert L. Coffman, Director,
Environmental Surveillance and Control, Department of Health and Social Services

DATE OF REVIEW: June 5, 1974

ACTION: Reviewed for compliance with State Standards. Unmentioned
information required for constructional authorization.

COMMENTS:

1. Stabilization Pond

a. The inlet into the pond should be located at the center or
near center of the pond in order to take advantage of all directional changes
of wind in the treatment process. A concrete splash plate should be
provided at the point of discharge and the pipe should be turned up about
one foot.

b. It is understood that expansion of the existing pond is
proposed. Provide detailed information of this proposal.

2. Food Service

Provide a list of all food preparation areas and food service
equipment proposed to be used. Include specifications, make and model
number also except in the case of NSF approved equipment or equal where
only the make and model number will suffice.

3. Mobile Home Park

a. It is understood that the park will not be limited to Mobile
Homes, but will allow independent type recreational trailers also.

As such, an appropriate number of Service Buildings shall be
provided in accordance with State Standards. Plans and specifications shall
be submitted.

Each Service building shall serve all dependent trailers within 200
feet radially of it and the number of fixtures shall be in accordance with
the "General and Special Standards Governing Mobile Home Parks, Travel Trailers,
Truck Campers and Tenting Units". Copy of standards attached.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: *Waste at Station, Wadala, Wyoming*

ARCHITECT OR ENGINEER: *Clene and Johnson Engineering Corporation*

WATER QUALITY DIVISION REFERENCE NUMBER: *74-46*

REVIEWING ENGINEER: *Frank L. Wilson, P.E., District Office*

DATE OF REVIEW: *June 3, 1974*

ACTION: *Reviewed for conformance with Waste Regulations.*

COMMENTS:

1. Check and waste valves are permitted on leaders of the clean pipes at individual water connections to prevent freezing, unless a positive valve or backflow preventer is provided on positive pressure side of service.

4. Pumps on trailer hook-up can be all-in-one and pumps vent be provided at end of sanitary collection line (over).

5. Recommend that porta-pots be available for emergency use adjacent to the building development in storage to eliminate need for construction of such permanent facilities throughout the area.

74-46-46
6-3-74

cc: *Maecia Crawford, District Sanitarian, Gillette*
W. J. Clausen, Garner Lake Route, Gillette

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wyodak Station - 1977 Unit Black Hills Power and Light Company
and Pacific Power and Light Company - Water and sewer expansion - Temporary housing
and mobile home parks, Wyodak, Wyoming
ARCHITECT OR ENGINEER: Mr. D. R. Voorhees, Stone and Webster Engineering Corporation,
Garner Lake Route, Gillette, Wyoming 82716.

WATER QUALITY DIVISION REFERENCE NUMBER: 74-45RR, Environmental Surveillance and
Frank R. Harman Control Services Reference No. S74-70RR.
REVIEWING ENGINEER: Frank Harman, P.E. and Robert L. Coffman, Director, Environmental
Surveillance and Control, D.H.S.S.
DATE OF REVIEW: January 16, 1975

ACTION: Authorized for construction.

COMMENTS:

In the information submitted December 2, 1974, all items enumerated in the original plan review No. 74-45 have been complied with except for the food service items. However, it is understood that information on food service, i.e. list of food service equipment and kitchen lay-out, had been submitted to Mr. Malcolm Crawford, under a list dated May 1, 1974 and drawing number 74-1426 dated March 28, 1974, on June 28, 1974 and was found to comply with state standards.

FRH:jk
1/20/75

cc: Malcolm Crawford, District Sanitarian, Gillette.
M. J. Heimendinger, Stone & Webster Engineering, Garner Lake Route, Gillette.

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF HEALTH AND SOCIAL SERVICES
DIVISION OF HEALTH AND MEDICAL SERVICES
ENVIRONMENTAL SURVEILLANCE & CONTROL SERVICES
STATE OFFICE BUILDING--WEST
Cheyenne, WY 82002

1. PROJECT: Wyodak Staion (Labor Camp), Temporary housing, Mobile Home Park,
Water & Sewage Expansion, Wyodak, Wyoming
2. ARCHITECT OR ENGINEER: Stone & Webster Engineering Corp.,
Garner Lake Route, Gillette, Wyoming 82716
3. ENVIRONMENTAL SURVEILLANCE & CONTROL REF. NO.: S74-70RR & 74-45RR
4. REVIEWED BY: M. D. Crawford, MSPH, Eastern Regional Supervisor, Gillette D. C.
5. DATE OF REVIEW: 1/20/75
6. ACTION: Approved
7. COMMENTS:
This approved assumes compliance with our verbal agreement that
sneeze guards will be provided at the serving line in the dining room.

Notes: Plans returned to owner.
Attachment; plans

CC: Stone & Webster Engineering Corp.
P. O. Box 2325
Boston, Mass. 02107

Water Quality Division
Dept. of Environmental Quality
State Office Building West
Cheyenne, Wyoming 82002

Robert L. Coffman, MPH, Director
Environmental Surveillance & Control
Cheyenne, Wyoming 82001



Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: *Water System Extension* South Worland Water Users Corporation, Mountain View Subdivision,
Worland, Wyoming

ARCHITECT OR ENGINEER: John W. Donnell, Consulting Engineer
P.O. Box 13
Worland, WY 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 74-46

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: May 29, 1974

ACTION: Construction Authorized subject to compliance with the comments
set forth below.

COMMENTS:

1. Obtain control of all property within 25 feet of all buried water mains and hydrant feeders for the purpose of protecting the mains against encroachment of drainfields, leaching pits, and other sewage disposal facilities.
2. These plans will be returned to the Engineer at his request and he will submit "as constructed" plans to this Department upon completion of this project.
3. The "looping" of this extension by extending the end of the water main from Wilson Drive back to the existing main along Airport Road is in accordance with the standards of water main construction which this Division follows.

RHP:mp
6-3-74

Enclosure

cc: Bill George, District Sanitarian, Worland

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: South Worland Water Users Corporation, Water Distribution System
Mountain View Subdivision, Worland, Wyoming

ARCHITECT OR ENGINEER: John W. Donnell, Consulting Engineer, P. O. Box 13,
Worland, Wyoming 82401

WATER QUALITY DIVISION REFERENCE NUMBER: 74-46R

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: November 14, 1974

ACTION: CONSTRUCTION AUTHORIZED

COMMENTS:

1. This review covers the engineer's submittal of 10-16-74 to obtain compliance with comments Nos. 1 and 2 of our plan review of 5-29-74 pertaining to this project.
2. The "looping" of this extension by extending the end of the water main from Wilson Drive back to the existing main along Airport Road is in accordance with the standards of water main construction which this Division follows.

RHP:bb
11-15-74

cc: Bill George, District Sanitarian, Worland, Wyoming

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: USDA Forest Service Flaming Gorge National Recreation Area,
Water and sanitation facilities, Sweetwater County.

ARCHITECT OR ENGINEER: C. A. Miller, Director of Engineering, United States
Department of Agriculture, Forest Service, 324 25th Street, Ogden, Utah

84401
WATER QUALITY DIVISION REFERENCE NUMBER: 74-47

REVIEWING ENGINEER: Paul C. Schwieger, P.E.

DATE OF REVIEW: June 7, 1974

ACTION: Reviewed for compliance with State Standards

COMMENTS:

The Stop and Drain Valve shown in Detail A-1, Sheet 1 of 2 is not allowed. As an alternate, we would suggest a combination of a curb stop followed by a drain valve downstream or a curb stop with a pneumatically purged line downstream.

PCS:bb
6-12-74

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: Wardwell Water and Sewer District, Proposed 6 inch Water Main Extension
for Hartranft Subdivision, Natrona County, Wyoming

ARCHITECT OR ENGINEER: Western Engineers-Architects, Inc.
2111 East 2nd Street
Casper, WY 82601

WATER QUALITY DIVISION REFERENCE NUMBER: 74-48

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 13, 1974

ACTION: Construction Authorized with Comments

COMMENTS:

1. Disinfect the water main prior to placing into service strictly in compliance with one of the methods set forth in the enclosure entitled, 'Disinfecting Water Mains, AWWA Standard C601-C89'.
2. It is recommended that water main valves be spaced at intervals of not greater than 1000 feet.

RHP;mp
6-17-74

Enclosure

cc: Robert Moore, Manager, Wardwell Water & Sewer District, P.O. Box 728, Casper
Mix Anderson, Casper-Natrona County Health Dept., Casper

307h

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Lander Water Main Extension, Block 1, Amorette Addition, Lander, Wyoming

ARCHITECT OR ENGINEER: None indicated, Submitted by Mr. Vern Miller
Vern Miller Construction Company
Lander, WY 82520

WATER QUALITY DIVISION REFERENCE NUMBER: 74-49

REVIEWING ENGINEER: Robert H. Pinther, P.E.

DATE OF REVIEW: June 11, 1974

ACTION: Construction Authorized subject to compliance with the applicable comments set forth below.

COMMENTS:

These plans cover approximately 370 feet of 6 inch C.I. water main in First Street between Amoretti and Eugene Streets, 25 feet of 4 inch C.I. water main, six water services and six sewer services.

1. The plans shall bear the seal of, or be signed by, an engineer who is registered to practice in Wyoming.
2. Sewer mains and service lines passing over or less than 18 inches under the water main at crossings shall be constructed of materials and with joints that are equivalent to water main standards of construction and shall be pressure tested to assure watertightness prior to backfilling. The encasement of water mains in concrete is not necessary.
3. Any water main passing under sewers shall, in addition to the above, be protected by providing:
 - a. a vertical separation of at least 18 inches between the bottom of the sewer and the top of the water main;
 - b. adequate structural support for the sewers to prevent excessive deflection of joints and settling on and breaking of the water main;
 - c. that the length of water pipe be centered at the point of crossing so that the joints will be equidistant as far as possible from the sewer.

RHP:mp
6-12-74

cc: Orren J. Bower, City Engineer, Lander

Bill George, District Sanitarian, Worland

Book

REVIEW OF PLANS AND SPECIFICATIONS

WYOMING DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER QUALITY DIVISION
State Office Building
Cheyenne, Wyoming 82002

PROJECT: City of Casper's Secondary Sewer for St. Mark Community Church,
Casper, Wyoming

ARCHITECT OR ENGINEER: Casper Electric, Inc., 1000 North Lincoln Street, Casper
Casper Electric Building, 100 West 4th Street, Casper

WATER QUALITY DIVISION REFERENCE NUMBER: 70470

REVIEWING ENGINEER: Frank R. Hanson, P.E.

DATE OF REVIEW: Approx. 11/1/77

ACTION: APPROVED FOR CONSTRUCTION

COMMENTS:

FRANK

cc: Mik Anderson, Casper Water & Sewer Dept., Casper