

## FILE FOLDER

### DESCRIPTION ON TAB:

7542/1A M-1 Funding

FY 1983

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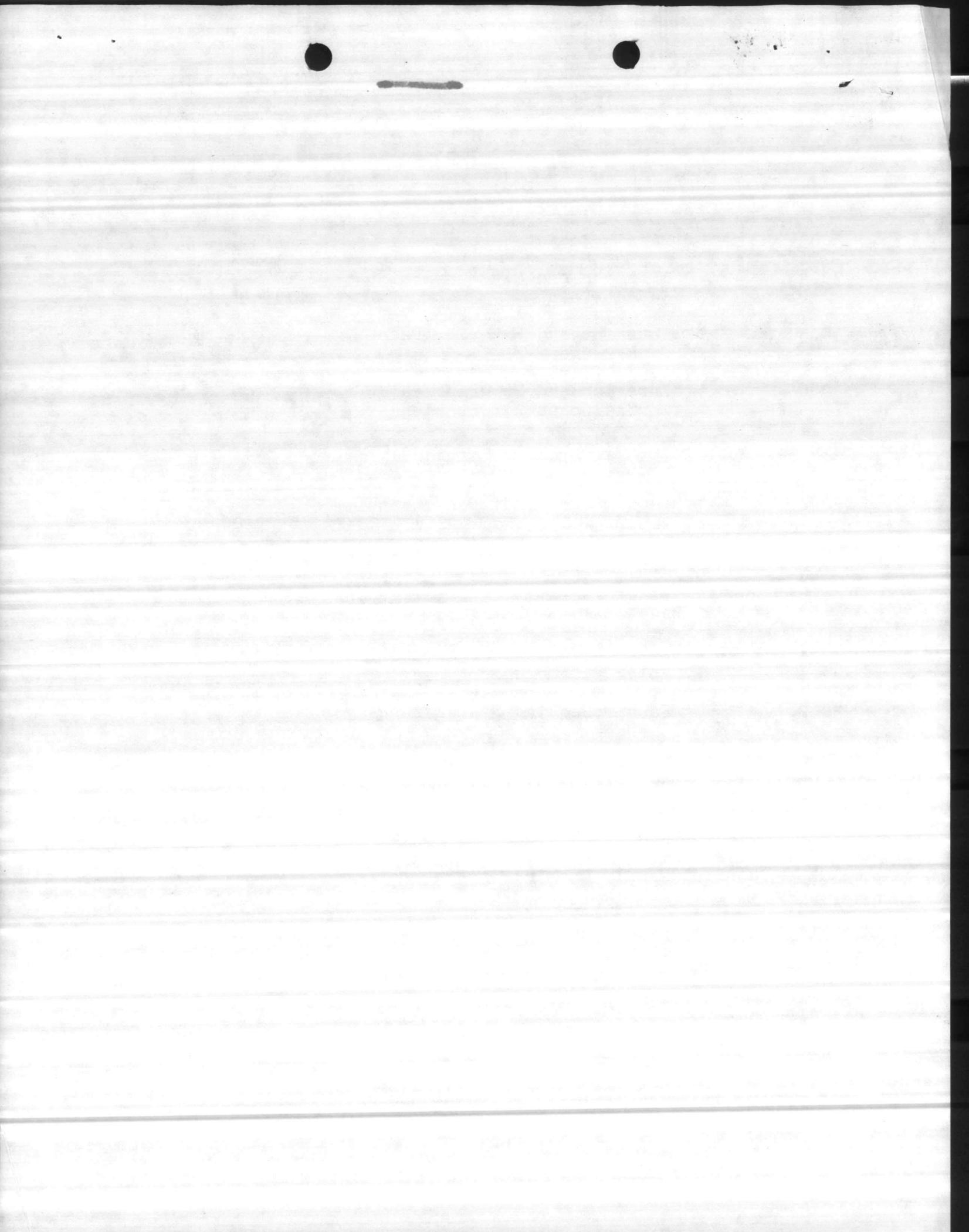
**OPENED:**

**CLOSED:**

PERM. SECNAVINST 5212.5D  
Part II, par 2, SSIC  
Until superseded

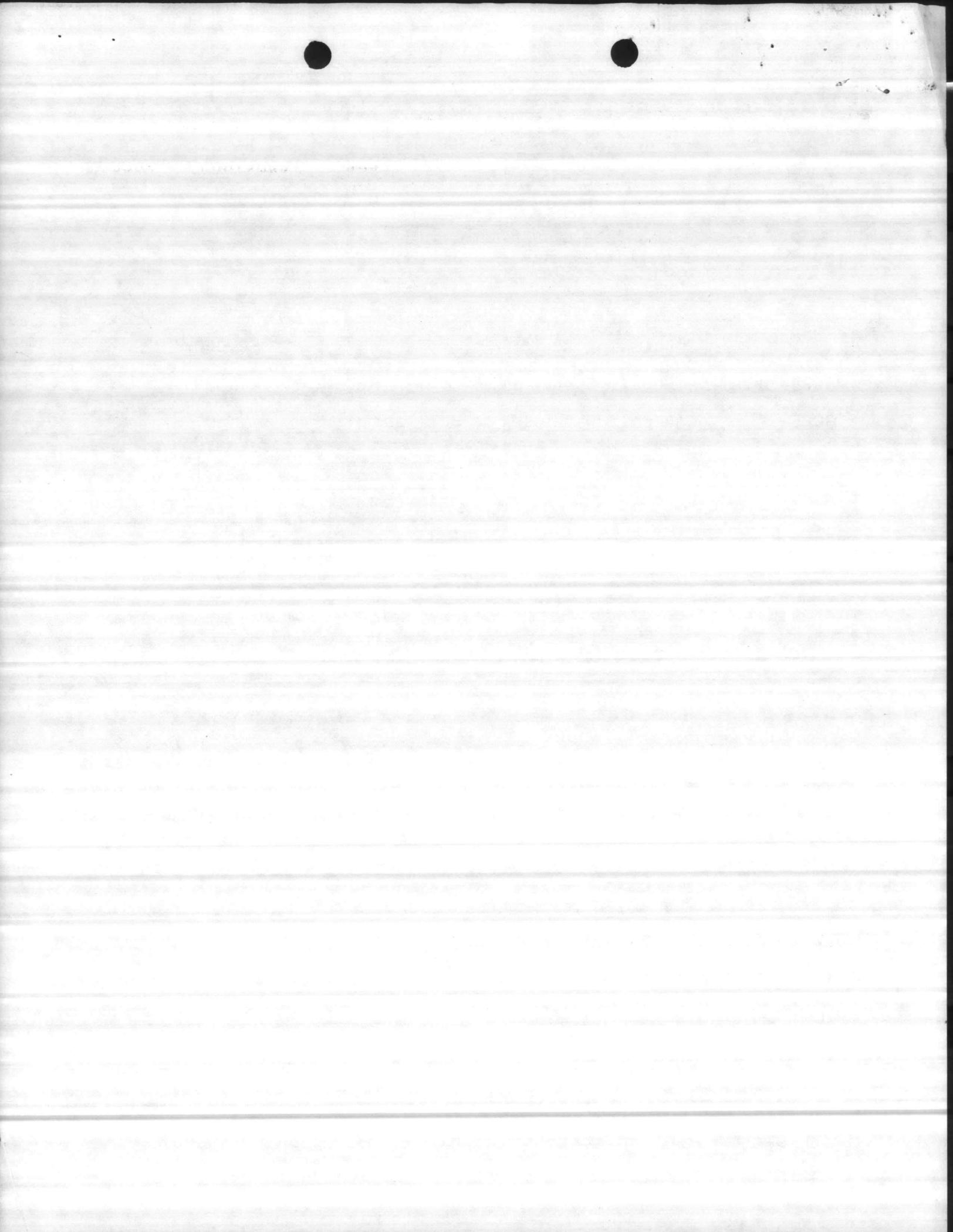
## M-1 FUNDING FY-83

| <u>File Number</u> | <u>Description</u>   | <u>Money Value</u> |
|--------------------|--|--------------------|
| 3C01               | Repair Steam and Condensate Piping - Camp Johnson M-324                | \$60,000           |
| 3C02               | Repair Roofs, Camp Geiger  | \$320,000          |
| 3C03               | Repair Roofs, Basewide   | \$210,356          |
| 3C04               | Interior and Exterior Paint Hadnot Point                               | \$119,300          |
| 3C05               | Interior and Exterior Paint Camp Geiger                                | \$ 33,700          |
| 3C06               | Interior and Exterior Paint Marine Corps Air Station                   | \$109,000          |
| 3C07               | Interior and Exterior Paint BB Area, RR Area, Camp Johnson             | \$171,450          |
| 3C08               | Repair Steam and Condensate Piping - Courthouse Bay - BB-2             | \$ 22,000          |
| 3C09               | Repair Open Air Playing Courts   | \$185,387          |
| 3C10               | Repair Water Piping in Latrines Camp Geiger                            | \$174,000          |
| 3C11               | Repair of Overhead Steam Line Poles - Camp Geiger Area                 | \$ 16,050          |
| 3C12               | Repair Heating System in H-Type Barracks                               | \$330,000          |
| 3C13               | Repair and Restripe Parking Lots Basewide                              | \$ 72,188          |
| 3C14               | Repair of Fencing on Tennis and Handball Courts                        | \$ 24,016          |
| 3C15               | Repair Heating System, Boiler #22, Building 45                         | \$ 40,000          |
| 3C16               | Repair Heating System, Buildings TC-601 and M-116                      | \$ 37,850          |
| 3C17               | Rpl Cond Receiver Tank, Valves Float Controls & Alarms, Building #M625 | \$ 20,000          |
| 3C18               | Rpl Oil Burners #38, #39 and #40 Boilers, Building #M230               | \$ 70,000          |



## M-1 FUNDING FY-83 (Continued)

| <u>File Number</u> | <u>Description</u>                                  | <u>Money Value</u> |
|--------------------|---|--------------------|
| 3C19               | Rpl Boiler #61 - USO Building                       | \$ 15,000          |
| 3C20               | Rpl Mechanical Equipment Two<br>Tanks - Building 22 | \$ 70,000          |
| 3C21               | Pnt Interior Wall and Ceiling<br>Building 1300      | \$ 30,000          |
| 3C22               | Rpl Boiler #88, Building 670                        | \$ 16,000          |
| 3C23               | Rpl Flow Meters & Recorders,<br>Building RR-85      | \$ 50,000          |
| 3C24               | Repair Structure A-25                               | \$ 17,394          |
| 3C25               | Repair Water Line, Building<br>BA-138               | \$ 30,300          |
|                    | TOTAL   | \$2,243,991        |



New M-2 Items for the FY-82 BMAR, Marine Corps Base, Camp Lejeune, North Carolina

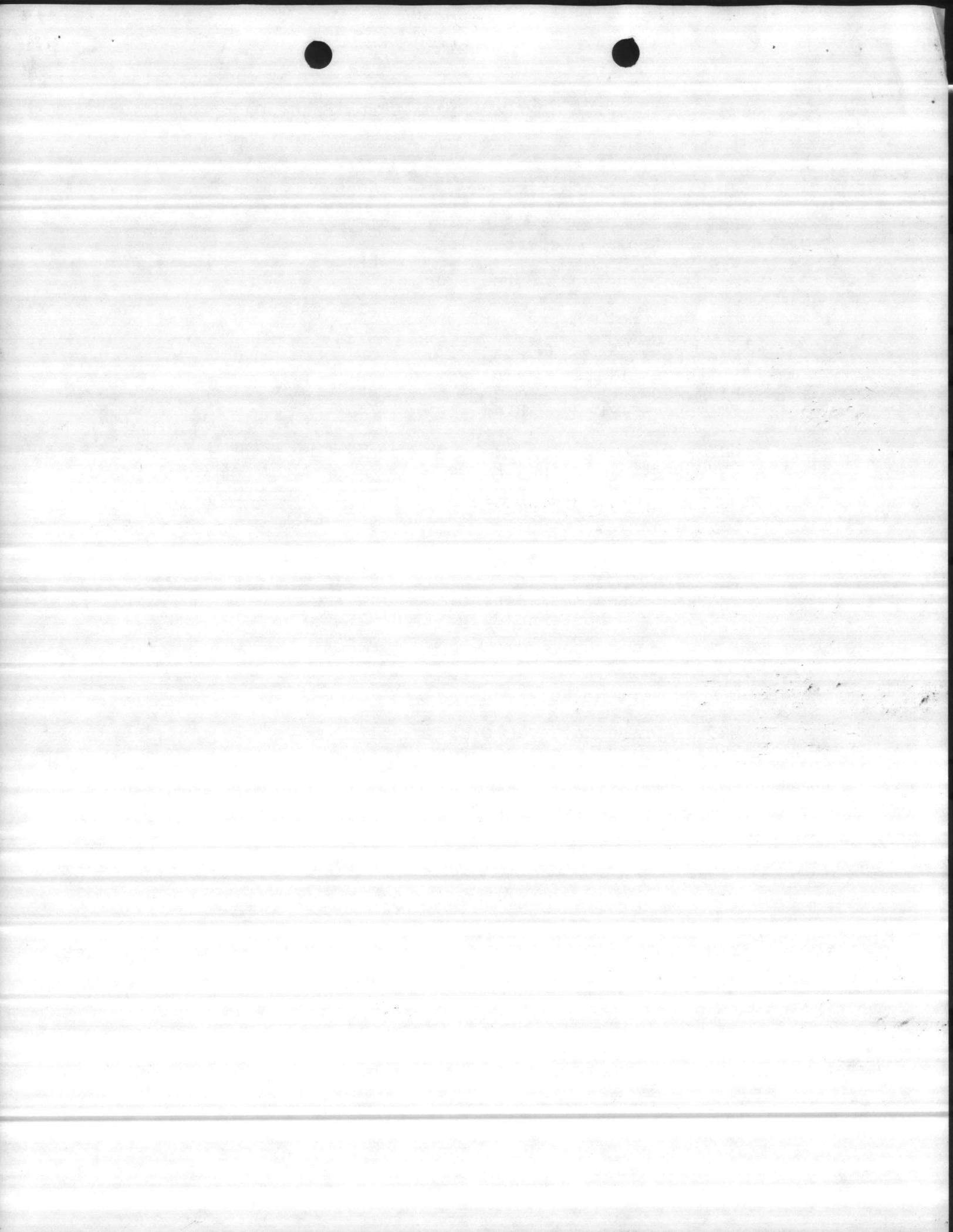
| <u>Priority</u> | <u>Work Description</u>                                       | <u>Cat Code</u> | <u>Previous Summaries</u> | <u>X000 Cost</u> |
|-----------------|---|-----------------|---------------------------|------------------|
| 1               | Rpl Target Carriage Sys                                       | 179             | 0                         | 231.0            |
| <del>2</del>    | Rpr Controls & Meters, Bldg. G-650                            | 821             | 0                         | 77.0             |
| 1               | Mech & Structural Rprs, Bldg. 1700                            | 821             | 0                         | 165.0            |
| 1               | Rpl Cond Return Sys - PP Area                                 | 822             | 0                         | 150.0            |
| 2               | Mech Rprs, Bldg. M-625  | 821             | 0                         | 87.0             |
| 2               | Rpl Water Filter Drain Sys, Bldg. 20                          | 841             | 0                         | 200.0            |
| <del>2</del> 3  | Rpl Htg & A/C Sys, Bldg. 19                                   | 740             | 0                         | 139.0            |
| 3               | Rprs, Bldg. 1500  | 730             | 0                         | 392.0            |
| 3               | Rpr Street Lighting, Holcomb Blvd.                            | 812             | 0                         | 80.0             |
| <del>3</del>    | <del>Rpl Water Dist Main, 200 Area, Camp Johnson</del>        | <del>842</del>  | <del>0</del>              | <del>200.0</del> |
|                 | P0012 Rpl Coal Feeders & Pulverizers, Bldg. 1700              | 821             | 1                         | 2,530.0          |
|                 | P0022 Rpl Casing, Insulation, & Tile in 4 Boilers, Bldg. 1700 | 821             | 1                         | <u>1,071.0</u>   |
|                 |   |                 | TOTAL                     | 5,322.0          |

Marine Corps Air Station (Helicopter), New River

|   |                                    |     |       |              |
|---|------------------------------------|-----|-------|--------------|
| 1 | L0011 Rpr Runway, Oak Grove        | 111 | 1     | 1,350.0      |
| 1 | L0021 Rpr Taxiway, Oak Grove       | 112 | 1     | 309.0        |
| 2 | L0031 Rpr Parking Apron, Oak Grove | 113 | 1     | 216.0        |
| 3 | Rpr Airfield Lighting, Oak Grove   | 136 | 0     | <u>150.0</u> |
|   |                                    |     | TOTAL | 2,025.0      |

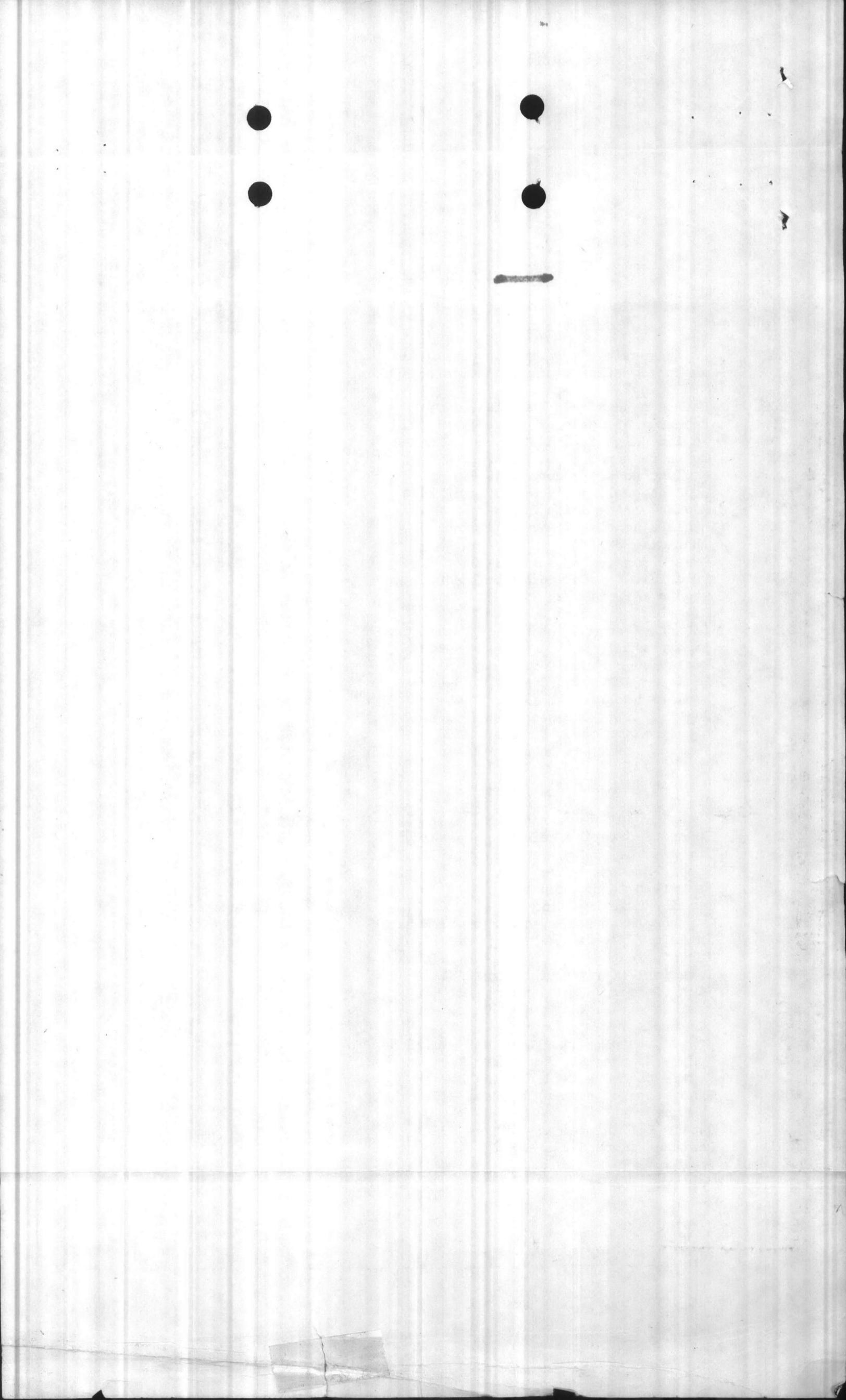
FY-84

|                                      |     |   |       |
|--------------------------------------|-----|---|-------|
| Projects Plan Rpr Roof, Bldg. AS-504 | 211 | 0 | 108.0 |
|--------------------------------------|-----|---|-------|



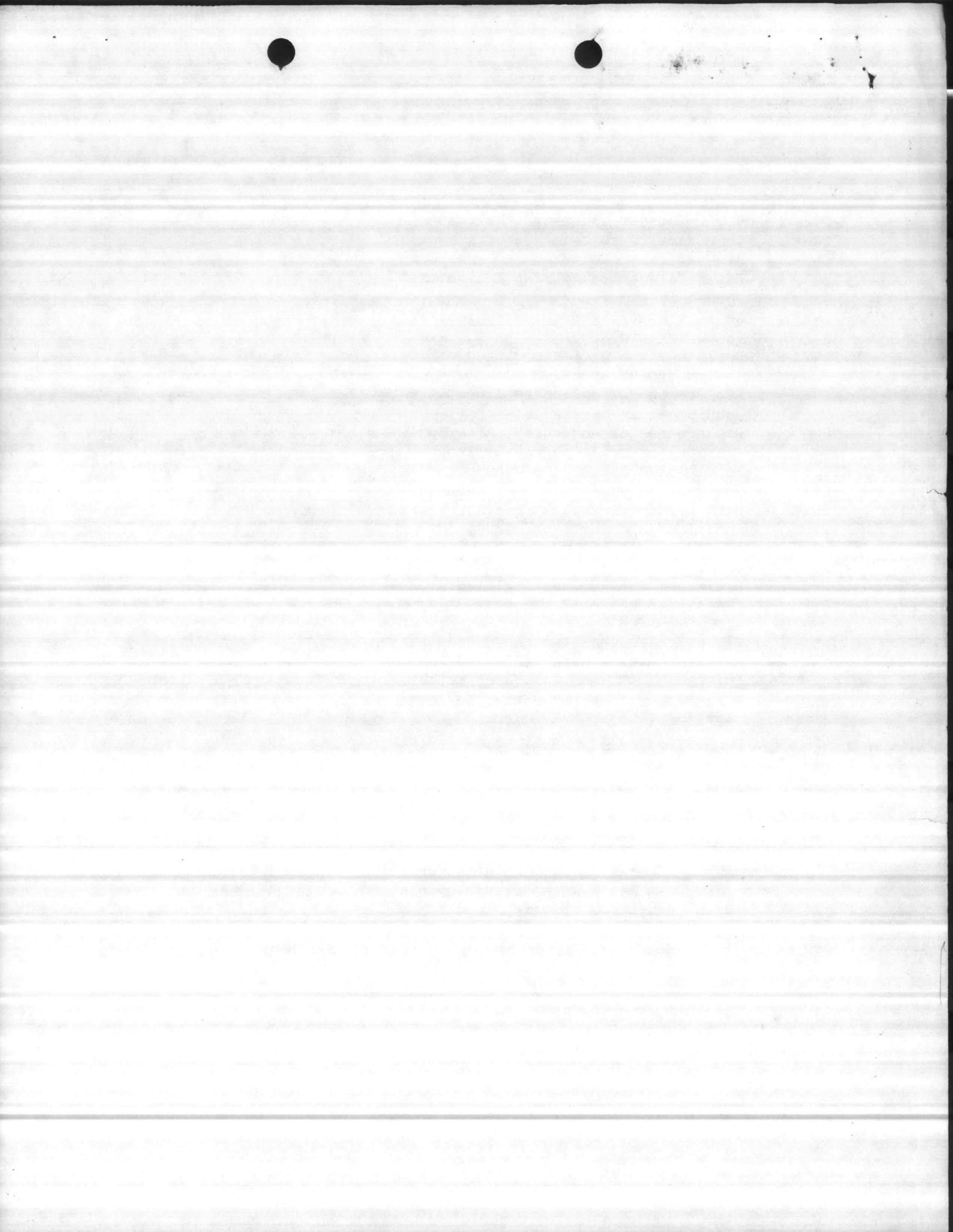
FY-82 - M-1 FUNDING

| <u>FILE NUMBER</u> | <u>DESCRIPTION</u>   | <u>CONTRACT NUMBER</u> | <u>BASE MAINTENANCE NUMBER</u> |
|--------------------|--|------------------------|--------------------------------|
| 2C01               | Fence repair and resurface parking lot                     |                        |                                |
| 2C02               | Replace heating & air conditioning system, Building 19     |                        |                                |
| 2C03               | Reface handholes & manholes, 1700                          |                        |                                |
| 2C04               | Replace incandescent fixtures, 1700                        |                        |                                |
| 2C05               | Replace lights, SHE-12, SHE-13, SHE-8                      |                        |                                |
| 2C06               | Tower repairs, ST-9, ST-7, ST-8                            |                        |                                |
| 2C07               | Replace concrete apron, AS-840                             |                        |                                |
| 2C08               | Replace cooling lines, Building 1700                       |                        |                                |
| 2C09               | Replace bridge with culvert, S-864                         |                        |                                |
| 2C10               | Replace heating & air conditioning Building 37             |                        |                                |
| 2C11               | Repair corners & deck, AS-705                              |                        |                                |
| 2C12               | Sandblast & paint mechanical equipment                     |                        |                                |
| 2C13               | Repair & finish pews                                       |                        |                                |
| 2C14               | Basewide reroofing   |                        |                                |
| 2C15               | Interior/exterior painting, French Creek                   |                        |                                |
| 2C16               | Repair swimming pool steps, AS-202                         |                        |                                |
| 2C17               | Replace mechanical equipment, M-230                        |                        |                                |
| 2C18               | Replace walkways, AS-4020 & AS-4025                        |                        |                                |
| 2C19               | Replace hot water boiler, TT-44                            |                        |                                |
| 2C20               | Replace lines & repair showers, M-128                      |                        |                                |
| 2C21               | Repair shop doors, Building 1775                           | 82-4560                |                                |
| 2C22               | Replace steam & condensate lines, Building 1500            |                        |                                |
| 2C23               | Replace linoleum floor, Building 15                        |                        |                                |
| 2C24               | Asphalt resurfacing, basewide                              |                        |                                |
| 2C25               | Exterior painting, Montford Point                          | 82-4563                |                                |
| 2C26               | Interior/exterior painting, basewide                       | 82-4565                |                                |
| 2C27               | Interior painting, various buildings                       | 82-4564                |                                |
| 2C28               | Repair Hostess House                                       | 81-3674                |                                |
| 2C29               | Resurface tennis courts                                    | 81-3670                |                                |
| 2C30               | Repair Reefer Ceiling                                      | 80-2056 (Cancelled)    |                                |
| 2C31               | Unaccompanied Enlisted Personnel Housing                   | 79-9061                |                                |
| 2C32               | Interior/Exterior Painting Basewide                        |                        |                                |
| 2C33               | Interior/Exterior Painting Camp Johnson                    |                        |                                |
| 2C34               | Interior/Exterior Painting MCAS(H) and Camp Geiger         |                        |                                |
| 2C35               | Replace Air Handling Heat Units and Controls FC-100 FC-200 |                        |                                |
| 2C36               | Renovation of Heating Systems - MCAS(H)                    |                        |                                |
| 2C37               | Modify Heating System - AS-232                             |                        |                                |
| 2C38               | Repair Concrete Ceilings and Beams                         |                        |                                |
| 2C39               | Renovation of Heating Systems - Camp Geiger                |                        |                                |
| 2340               | Repair Ceiling and Lighting - 59                           |                        |                                |
| 2C41               | Replace Window Sills - Brig                                |                        |                                |



FY-82 - M-1 FUNDING (cont'd)

| <u>FILE NUMBER</u> | <u>DESCRIPTION</u>  | <u>CONTRACT NUMBER</u> | <u>BASE MAINTENANCE NUMBER</u> |
|--------------------|---|------------------------|--------------------------------|
| 2C42               | Repair street lighting - Holcomb                                      |                        |                                |
| 2C43               | Improvements to tennis courts fencing                                 | 81-3673                |                                |
| 2C44               | Renovation of Enlisted Club restrooms                                 | 81-3672                |                                |
| 2C45               | Repair electrical wiring & lighting panel in gyms                     |                        |                                |
| 2C46               | Replace static grounding systems at ammo magazines                    |                        |                                |
| 2C47               | Replace lighting & associated wiring, Buildings 45 & AS-202           |                        |                                |
| 2C48               | Replace steam/condensate lines & equipment in messhalls               |                        |                                |
| 2C49               | Replace reefer condenser units & evaporator coils in messhalls        |                        |                                |
| 2C50               | Repair sidewalks, Camp Johnson  |                        |                                |
| 2C51               | Structural repairs to pier, SBA-142                                   |                        |                                |
| 2C52               | Maintenance of asphalt roads, basewide                                |                        |                                |
| 2C53               | Interior/exterior repairs & paint Buildings 11,63 and M-104           |                        |                                |
| 2C54               | DELETE  |                        |                                |
| 2C55               | Replace lighting, heating plants BB-9, RR-15 and PP-2615              |                        |                                |
| 2C56               | DELETE  |                        |                                |
| 2C57               | Miscellaneous Repairs to Heating Plants RR-15, BB-9, BA-106 and M-230 |                        |                                |
| 2C58               | DELETE  |                        |                                |
| 2C59               | Replace Pump control cable, Building AS-110                           |                        |                                |
| 2C60               | Replace Auxilliary Engines, Buildings 20, 603, 613 and BA-138         |                        |                                |
| 2C61               | Replace Windows, Building 20  |                        |                                |
| 2C62               | Chemical Cleaning water lines, Buildings 670, 20 and TT-38            |                        |                                |
| 2C63               | Repairs to Water distribution lines, MCAS(H), New River               |                        |                                |
| 2C64               | Seal and paint walls, building 670                                    |                        |                                |
| 2C65               | Repairs to oil pumping station M-230, BB-9, RR-15 and PP-2615         |                        |                                |
| 2C66               | Repair Deteriorated Reefer Units Bldg. 1041 (Brig)                    |                        |                                |
| 2C67               | Stained Glass for Chapels   | 81-3650                |                                |
| 2C69               | <i>Survey, Restroom &amp; Apr Wells</i>                               |                        |                                |
| 2C70               | <i>Foundation Drains AS-205</i>                                       |                        |                                |



~~Repl. Flowmeters and Recorders, 20, 81-3554~~  
~~\$10,500~~

Repl. Spirators + Piping, 20 35%

~~Install CO<sub>2</sub> Recarbonation~~

Repl Filters and Softeners, RR-85

Repl Filter Control Valves for Rapid Sand  
Filters, Bldg 20

(Check on combining  
with Filter Surface  
Wash + Filter 40  
system)

Repl Digester Cover S-718

" " " S 717

" " " S 716

Repl. Pump Cable, AS-110 misc Rep. Cont.

Repl. Aux Engines, <sup>Bldg</sup> 20, 603, 613 (misc Rep. Cont., 1)

Repl Windows, Bldg 20,

Paint Interior, Bldg 20

Chemical Clean Water lines, 670, 20, TT-38

→ 20 + TT-38  
on misc Rep. Cont.

Inside Plant

Maint to Water Distr lines, AS Cleaning

# Water/Sewerage

Replace Well 601

✓ Replace Influent line TC-563, <sup>\$</sup>10,000

Chlorine Contact Chamber - 683

Replace lift Station, comminutor channel  
Pumps + comminutors TT-35  
115,000

Replace Comm. + Channels TC 563 48,000

Replace mech equip, Primary + Secondary  
Tanks 22 + TT-35 (2 primary + 2 secon)

Repair Digester covers, 22

~~Replace Flow Transmitters + Receivers TT-38 81-3554~~

~~Repl. dry chemical feeder, AS-110 81-3554~~  
5,000

Repl Well m-168

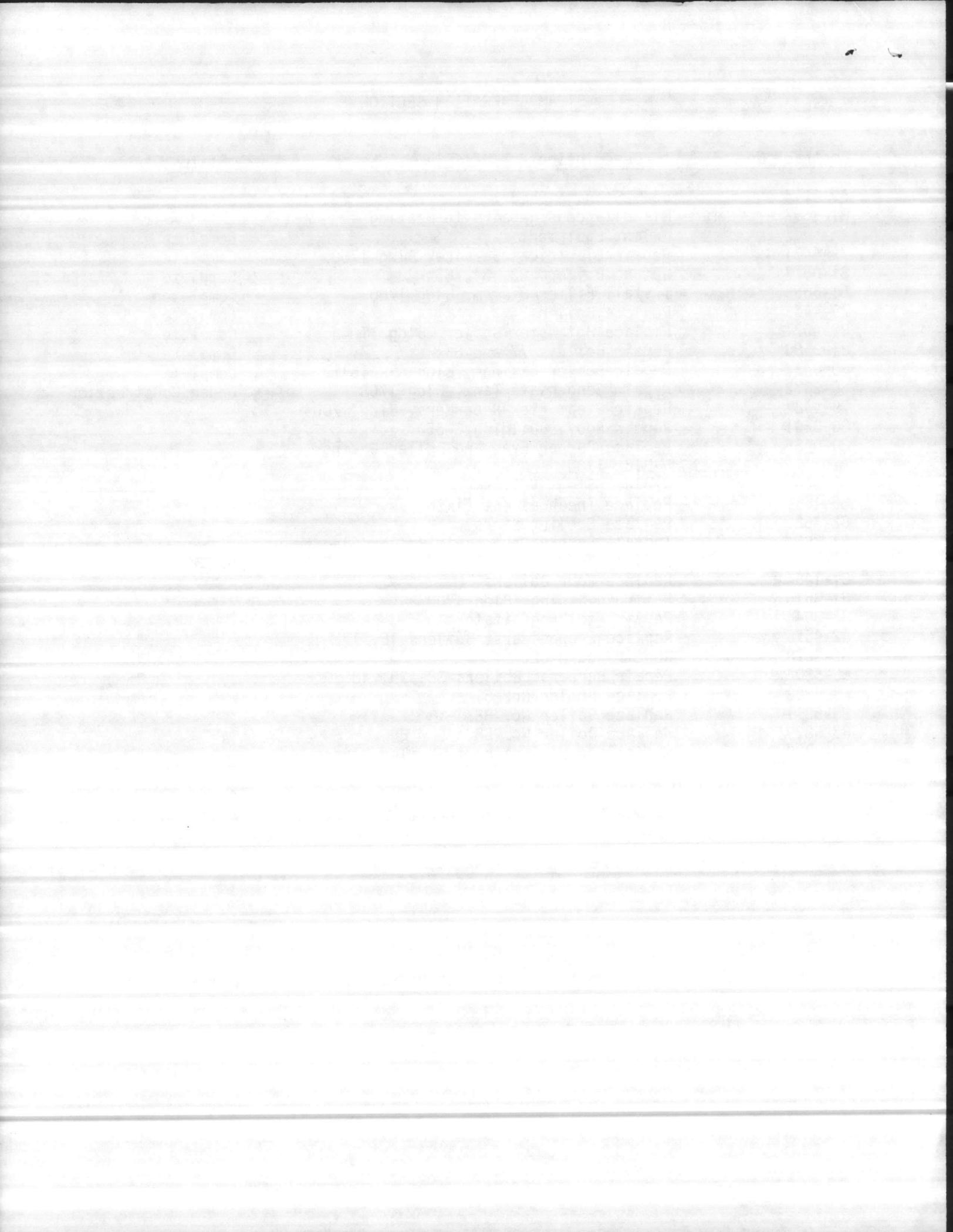
" " 610 - change to repair

~~Repl rate of flow controllers, 20 81-3554~~

Provide Add'l line storage capacity AS-110

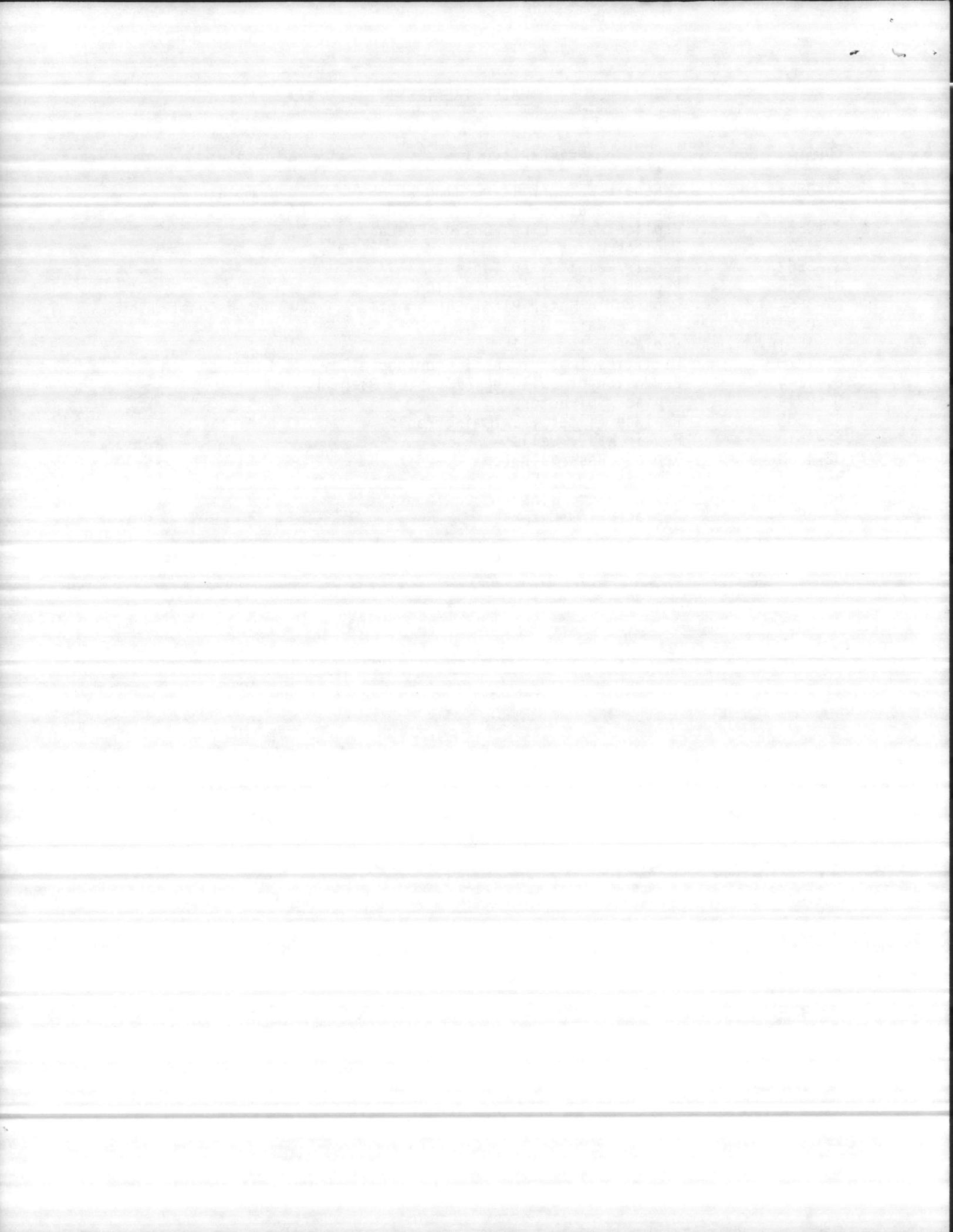
STEAM GENERATION SECTION

| <u>Contract No.</u> | <u>Description</u>                                   | <u>Status</u>      |
|---------------------|--|--------------------|
| 80-2114             | Coal Storage Shed                                    | Complete           |
| 81-3557             | Miscellaneous Repairs to Heating<br>Plant Equipment  | Complete           |
| 79-4471             | Repair Electrical Service, Bldg 1700                 | Complete           |
| 81-3577             | Retube Boilers 83, 84, 85                            | Complete           |
| 81-3655             | Install Filter System, Bldg 1700                     | Complete           |
| 79-4475             | Replace Boiler 54                                    | Complete           |
| 82-4571             | Replace Hot Water Boiler, Bldg TT-44                 | Complete           |
| 81-3580             | Repair Boilers 77 and 86                             | Complete           |
| 80-0437             | Repair Boiler Casings, Bldg AS-4151                  | Complete           |
| 80-2072             | Repair Condensate Tank, Bldg 1708                    | Under Construction |
| 79-4487             | Repair Steam Flow Recorders, Bldg 1700               | " "                |
| 80-0401             | Repair Roof, Building G-650                          | " "                |
| 80-0435             | Replace Burner Eyes and Boiler Casings,<br>Bldg 1700 | " "                |
| 81-3661             | Replace Steam Valves                                 | " "                |
| 82-4568             | Replace Incandescent Fixtures                        | " "                |
| 82-4629             | Replace Cooling Lines                                | " "                |
| 81-3654             | Install Safety Devices in Boiler Plants              | " "                |
| 81-1462             | Replace Underground Fuel Tanks                       | Under Design       |
| 81-1464             | Replace Four Boilers                                 | " "                |
| 81-3616             | Railroad Siding, Bldg 1700                           | " "                |
| 83-3044             | Repairs to Precipitators                             | " "                |
| 82-4676             | Replace Economizers, Boilers 16, 17, 18              | " "                |
| 82-4678             | Repairs to M-625                                     | " "                |
| 83-5804             | Repair Burners, Boilers 38, 39, 40                   | " "                |
| 83-5808             | Replace Boiler No. 61                                | " "                |
| 83-5811             | Replace Boiler No. 88                                | " "                |
| 83-5829             | Replace Boiler No. 58                                | " "                |
| 82-2320             | Miscellaneous Repairs to Boiler Plants               | " "                |



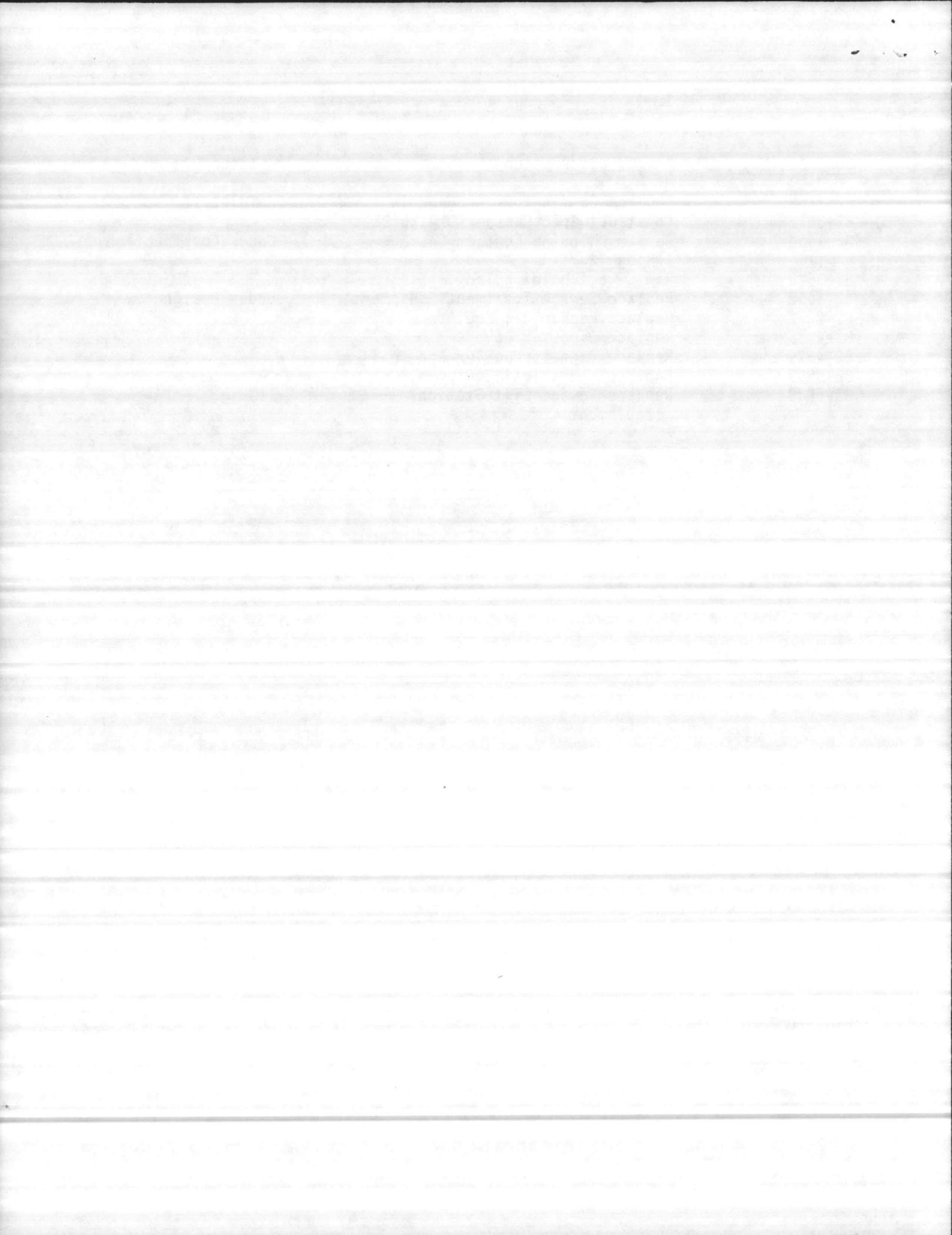
WATER TREATMENT

| <u>Contract No.</u> | <u>Description</u>                     | <u>Status</u>      |
|---------------------|--|--------------------|
| 81-3625             | Repair Water Filter, Bldg RR-85        | Complete           |
| 80-2043             | Repair Generator System, Bldg 20       | "                  |
| 81-3556             | Replace Water Line, Onslow Beach       | "                  |
| 79-4476             | Replace Water Wells                    | "                  |
| 81-3562             | Repair/Paint Water Tanks               | "                  |
| 81-3563             | Repair Water Piping, AS-110            | "                  |
| 81-3554             | Repairs to Water Plant Equipment       | Under Construction |
| 80-0399             | Replace Water Wells                    | " "                |
| 82-4551             | Replace Water Wells                    | " "                |
| 81-1478             | Utilities Improvements, Courthouse Bay | Under Design       |
| 81-1644             | Expansion of Building 670 Water Plant  | " "                |
| 82-2349             | Replace Spiractors                     | " "                |
| 82-2552             | Replace Filters, Swimming Pools        | " "                |
| 82-4610             | Repair Water Wells                     | " "                |
| 82-4663             | Replace Reservoir Top                  | " "                |
| 81-3647             | Lime Storage, AS                       | " "                |
| 82-2319             | Clean Water Mains                      | " "                |
| 83-5812             | Replace Flow Meters                    | " "                |



SEWAGE TREATMENT

| <u>Contract No.</u> | <u>Description</u>                         | <u>Status</u>      |
|---------------------|--|--------------------|
| 82-2162             | Replace Comminutors & Channels             | Complete           |
| 81-3617             | Construct Grit Chamber Drying Beds         | "                  |
| 81-1454             | Repair Chlorine Contact Chamber<br>Bldg 22 | Under Construction |
| 81-3645             | Raw Sewage Holding Tank                    | " "                |
| 82-4552             | Replace Sewage Treatment Equipment         | Under Design       |
| 82-2552             | Replace Mechanical Equipment               | " "                |
| 82-4638             | Replace Digester Covers                    | " "                |
| 82-4679             | Replace Digester Boiler and Coils          | " "                |
| 83-5809             | Replace Mechanical Equipment               | " "                |
| 83-5839             | Replace Sewage Lift Station<br>Equipment   | " "                |



COLD STORAGE SECTION

Contract No.

82-4674

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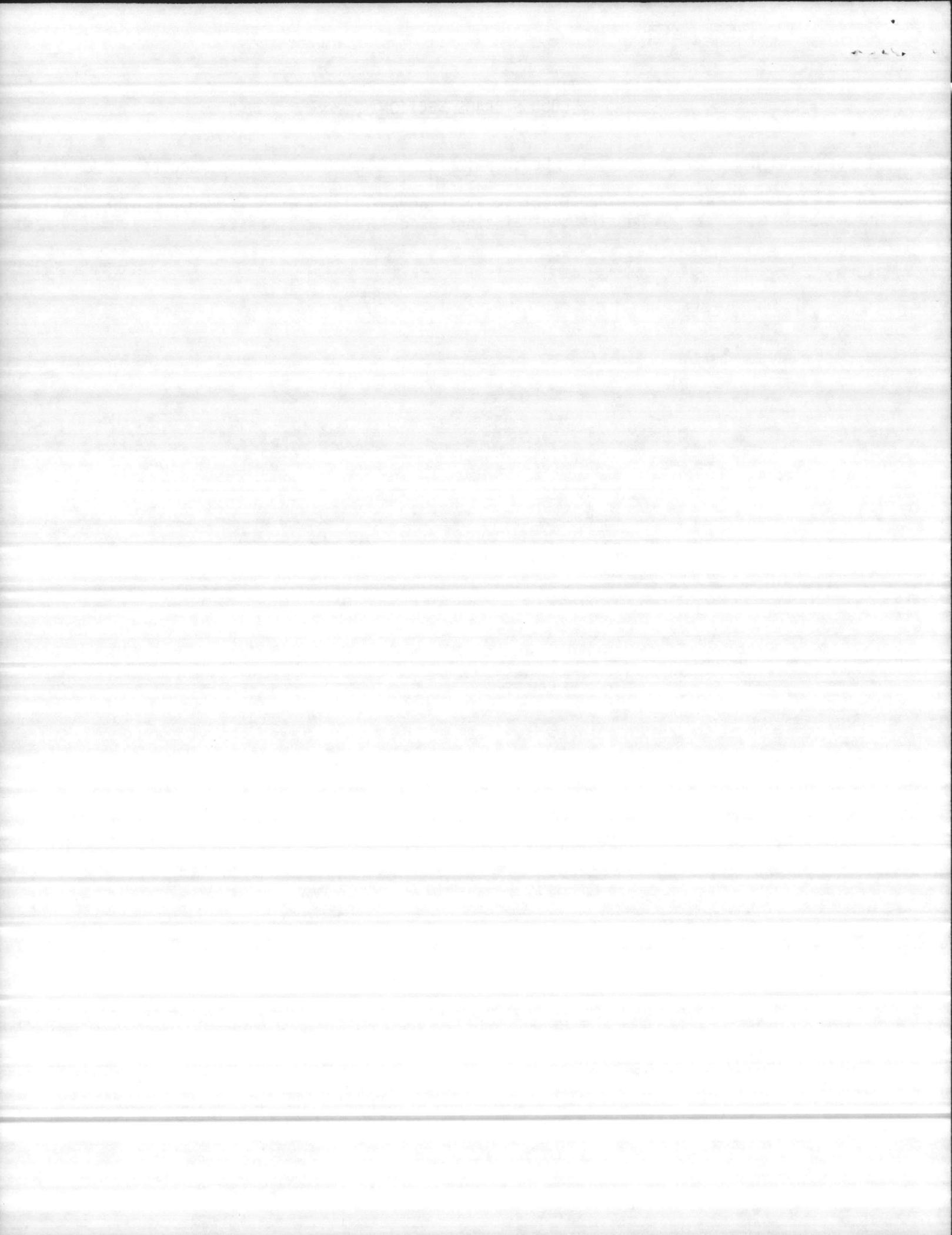
Description

Replace Electrical Wiring & Switchgear  
Repairs and Painting, Bldg 1300

Status

Under Design

" "



# Water/Sewage

Repl. mech equipment in primary Tanks  
Bldgs 22

Repl. Boiler No. 88, Bldg 670 - 670 Expon. cont.

✓ Repl. Filter Underdrain System, Bldg 20

~~Repl.~~ Repl. Water line, BA-138 30,000  
(Plant to Tower)

Replace Aux Eng with Generator

Repair Water Well m-628

Repair Water Well HP-610

Rebuild lift Stations AS-206, AS-230, AS-426,  
AS-606, AS-517

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## Construct

Buildings for Aux Generators RR-92, RR-52,

SBB-204, SBB-1, A-38, BA-107

m-136, m-241, SE-23, TT-33,

TT-34, 135, 22, S-47A, S-34

85, S-1761, S-1948, S-2633,

S-2100, S-46, 672, SF-315 FC-203  
LCH-4005, S-1776

Install Drying Beds (3) , TC-563

# Steam (Partial)

Provide + Install Condensate Polishers  
AS 4151 \$15,000

Replace Boiler # 10

Replace Area Stop Valves, 1700 \$90,000  
Under Constr.

Replace Cooling water drain lines - 1-4, 1700  
\$10,000 Under Cons. R+W

Provide + Install Ash Conveying Equip. - Precipitators  
\$200,000 ESR - LANTOIN Rensselaer

Provide + Install Condensate Polishers, G-650  
\$15,000

" " " " " " m-625  
\$15,000

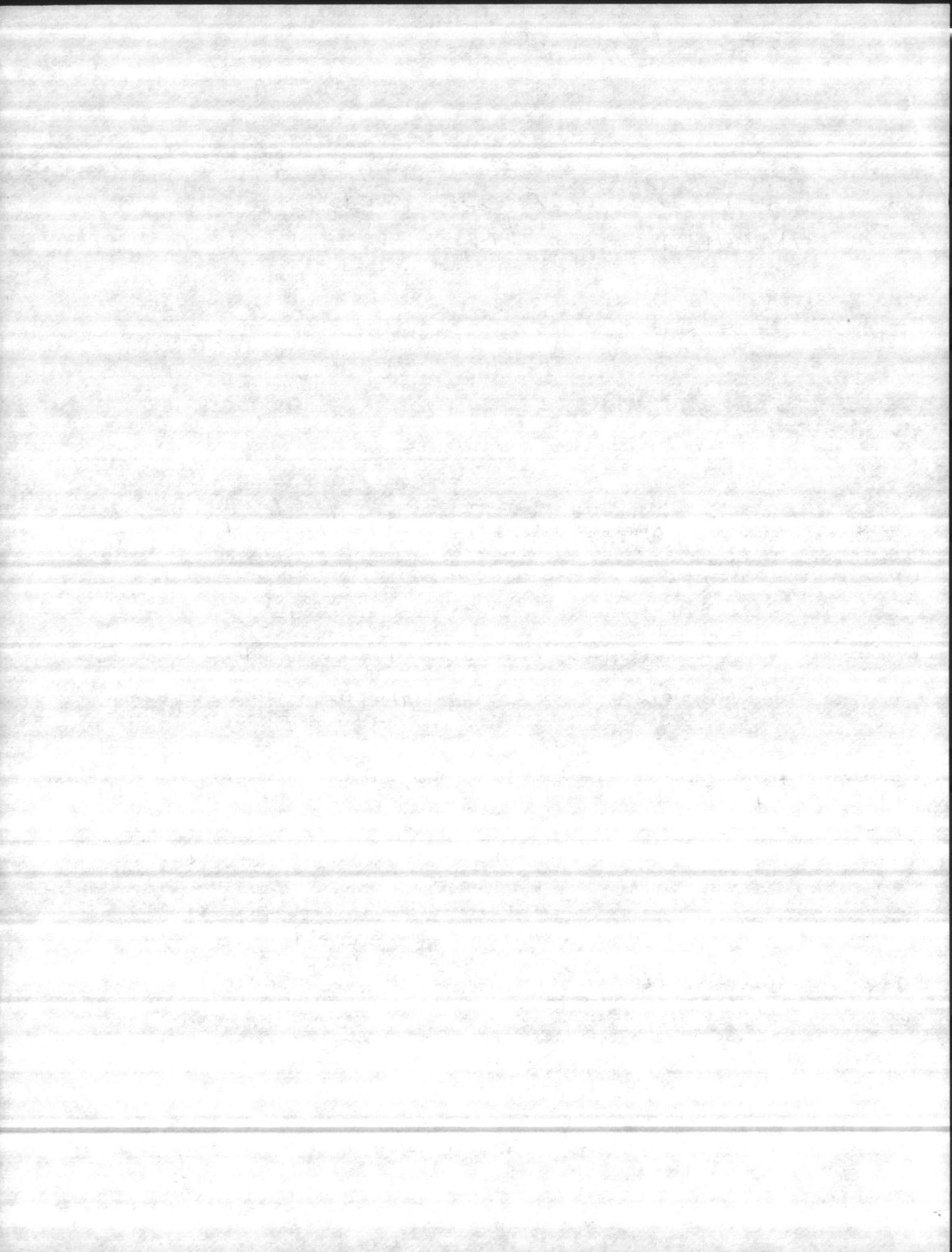
" " " " " " BB-9 \$15,000

Replace Boiler 46, RR-15 \$200,000

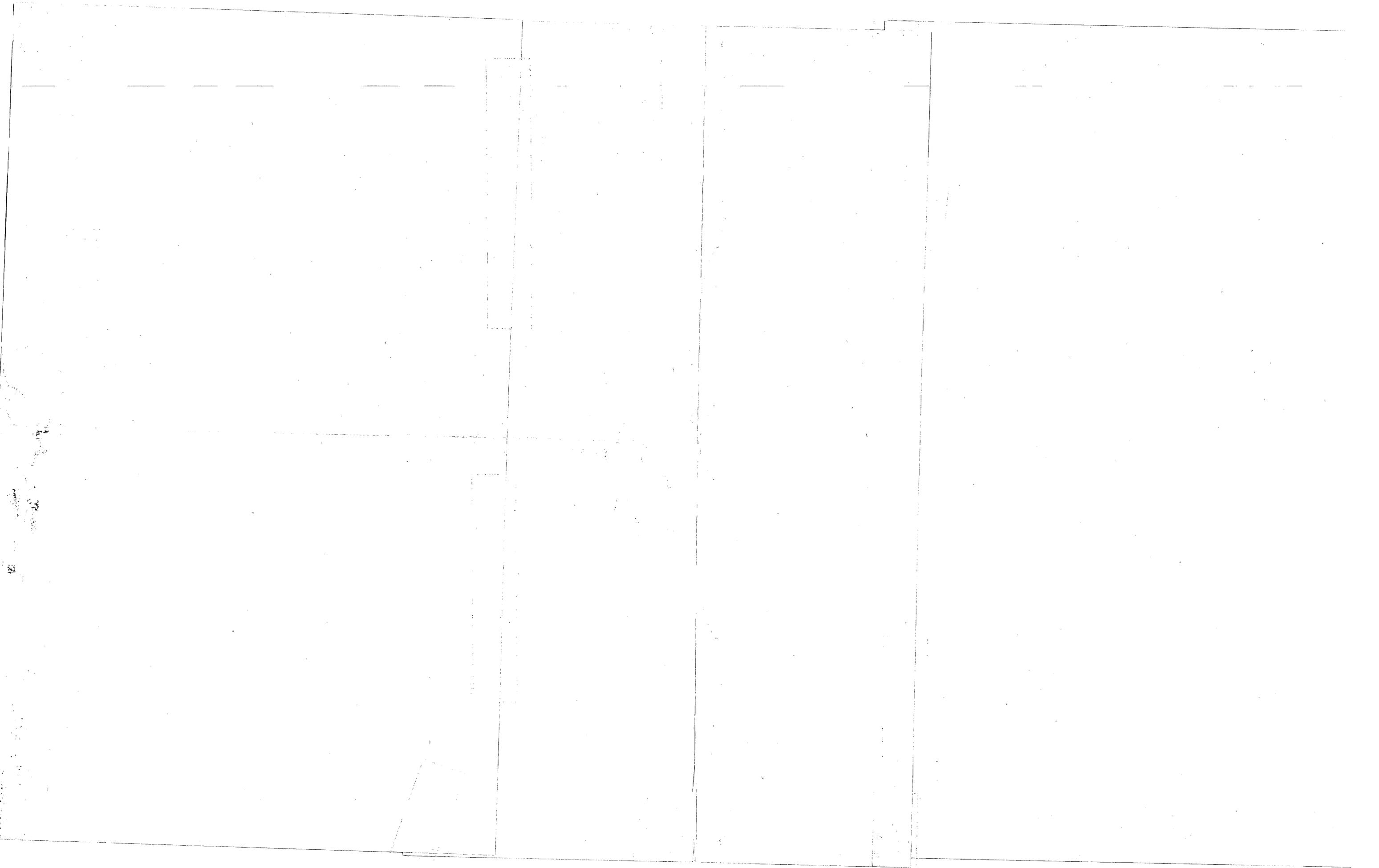
" " 47, RR-15 200,000

" " 55, BB-9 \$200,000

Replace #6 oil Tanker m-625, BB-9, RR-13, 2615







*Pink copy*

**BASE MAINTENANCE DIVISION**  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/FEC/rn  
11300  
30 Nov 1982

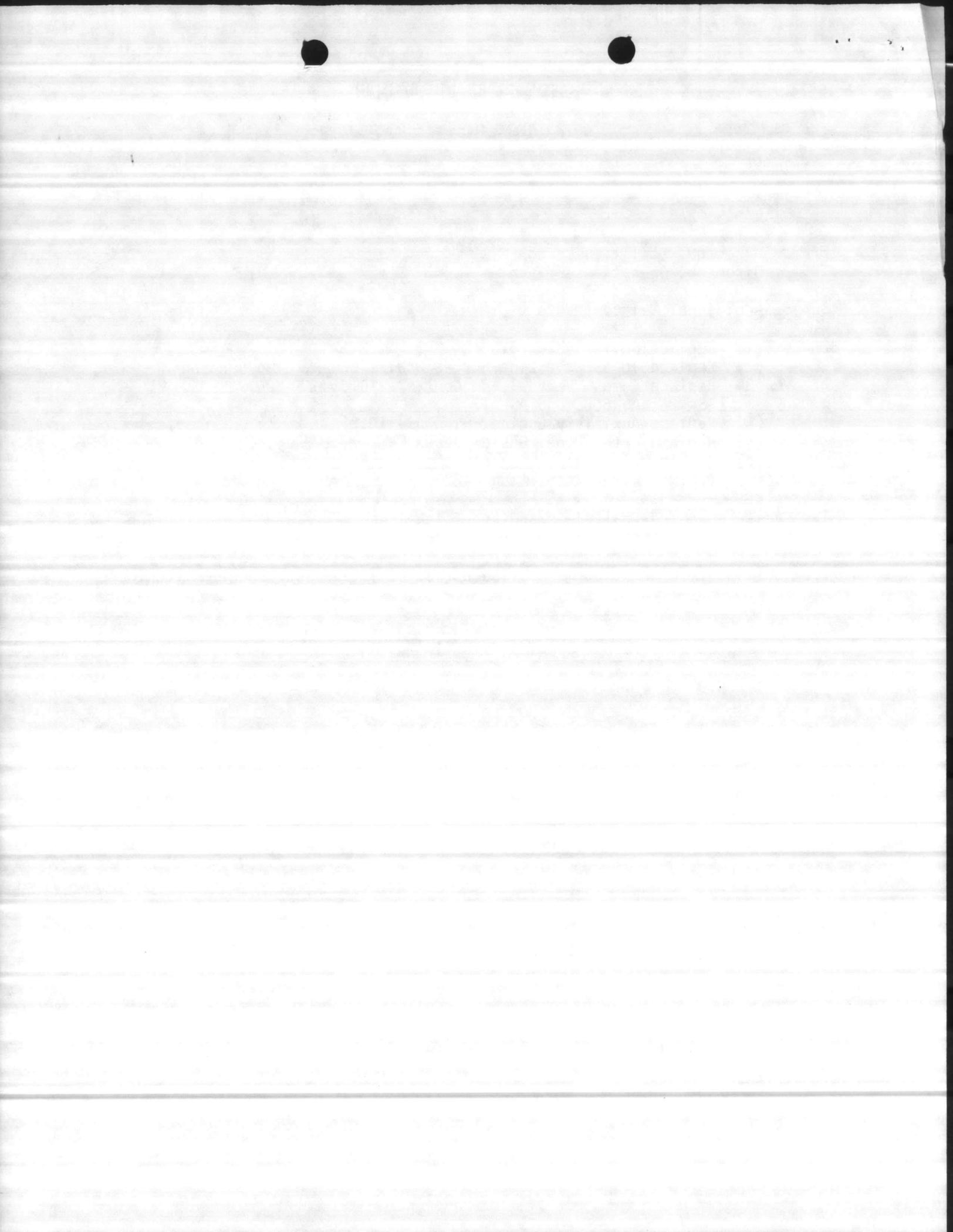
From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: Additional M-1 Contracts

- Encl: (1) Replace Boiler, Bldg 670  
(2) Replace 10" Sewage Line Across Scales Creek, Camp Johnson  
(3) Replace Pumps, Valves, and Controls, Bldgs AS-206, AS-230, AS-426, AS-606, and AS-517  
(4) Replace Auxiliary Engine, Bldg AS-110  
(5) Replace Water Line, Onslow Beach  
(6) Repair Water Well, Bldg 610  
(7) Replace Water Well, Bldg M-628

1. It is requested that plans and specifications be prepared to accomplish contract work outlined in enclosures (1) through (7).
2. Additional information is available from Utilities' personnel as required.

F. E. CONE



REPLACE BOILER - BLDG 670

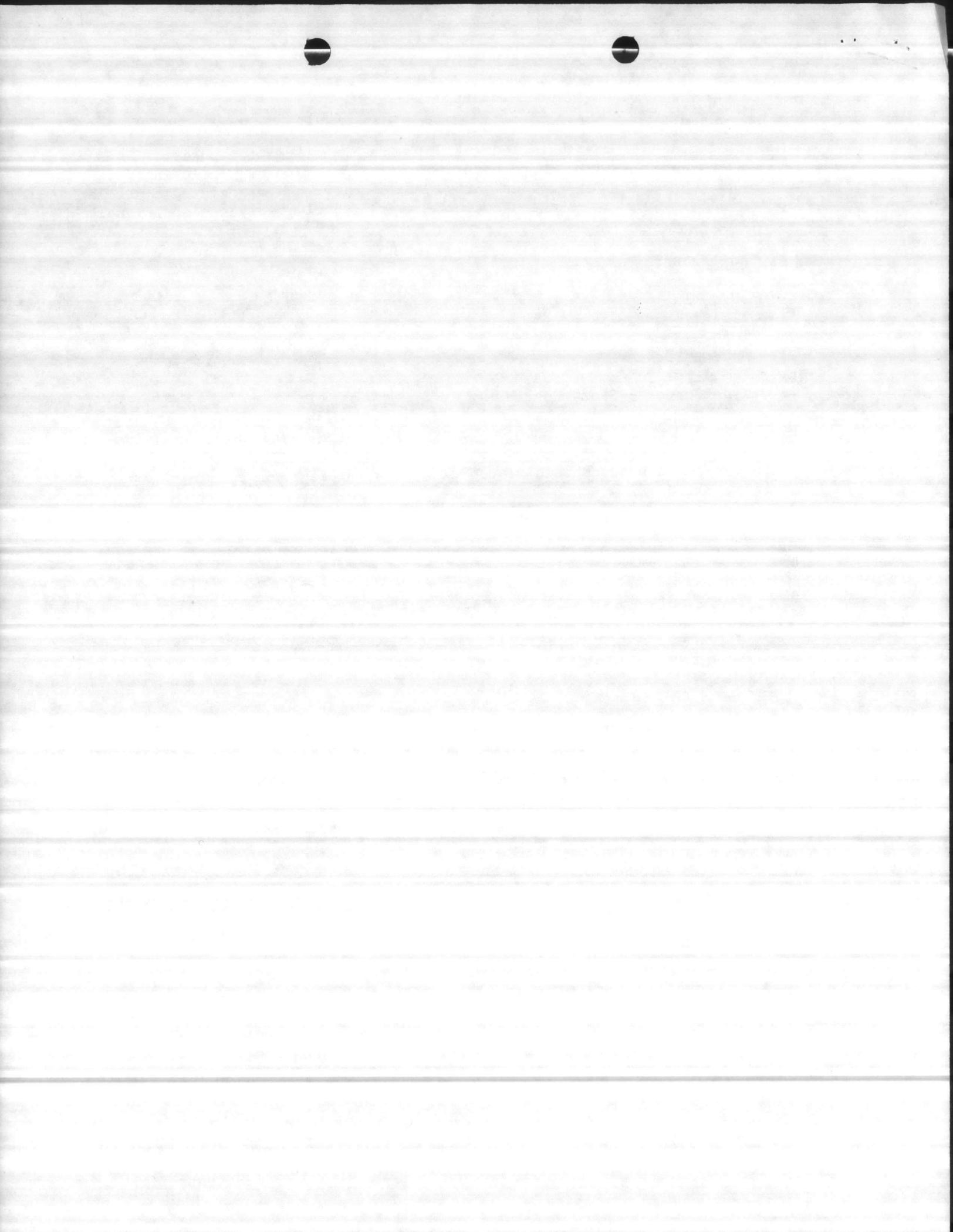
The boiler at Bldg 670 was installed in 1971 with insufficient capacity. This resulted in excessive wear. There have been many repairs made, including retubing and replacement of various parts. This boiler and associated controls should be replaced. Boiler Mechanics estimate approximately two years additional useful life.

Boiler Data

BHP - 15  
BTU/Hr - 502,079  
Type - Firetube/Hot water  
Make - Spencer  
Fuel - #2  
Type Burner - Spray Nozzle

Estimated Cost: \$20,000

Note: Boiler replacement should be coordinated with plant expansion under MILCON.

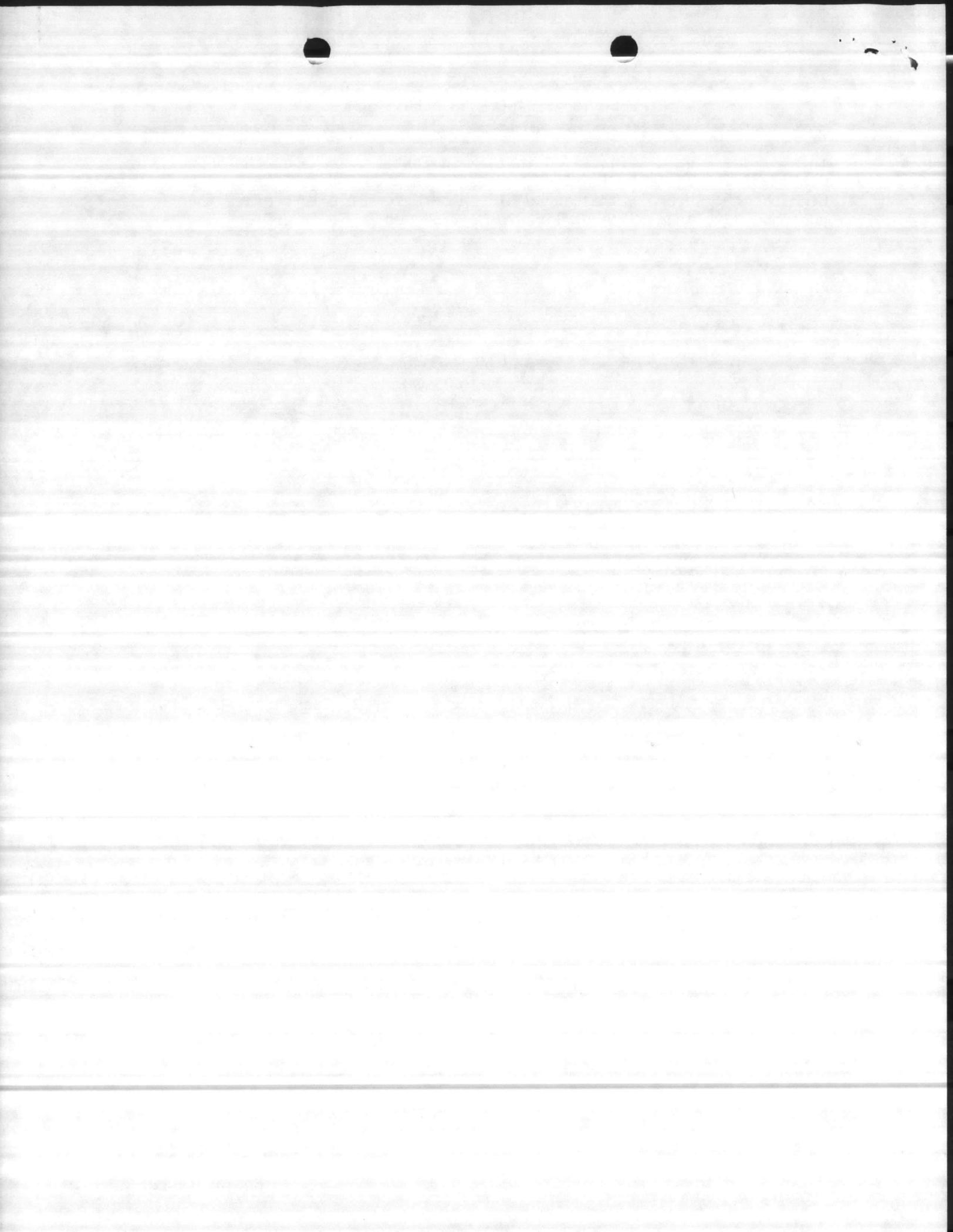


REPLACE 10" SEWAGE LINE ACROSS SCALES CREEK

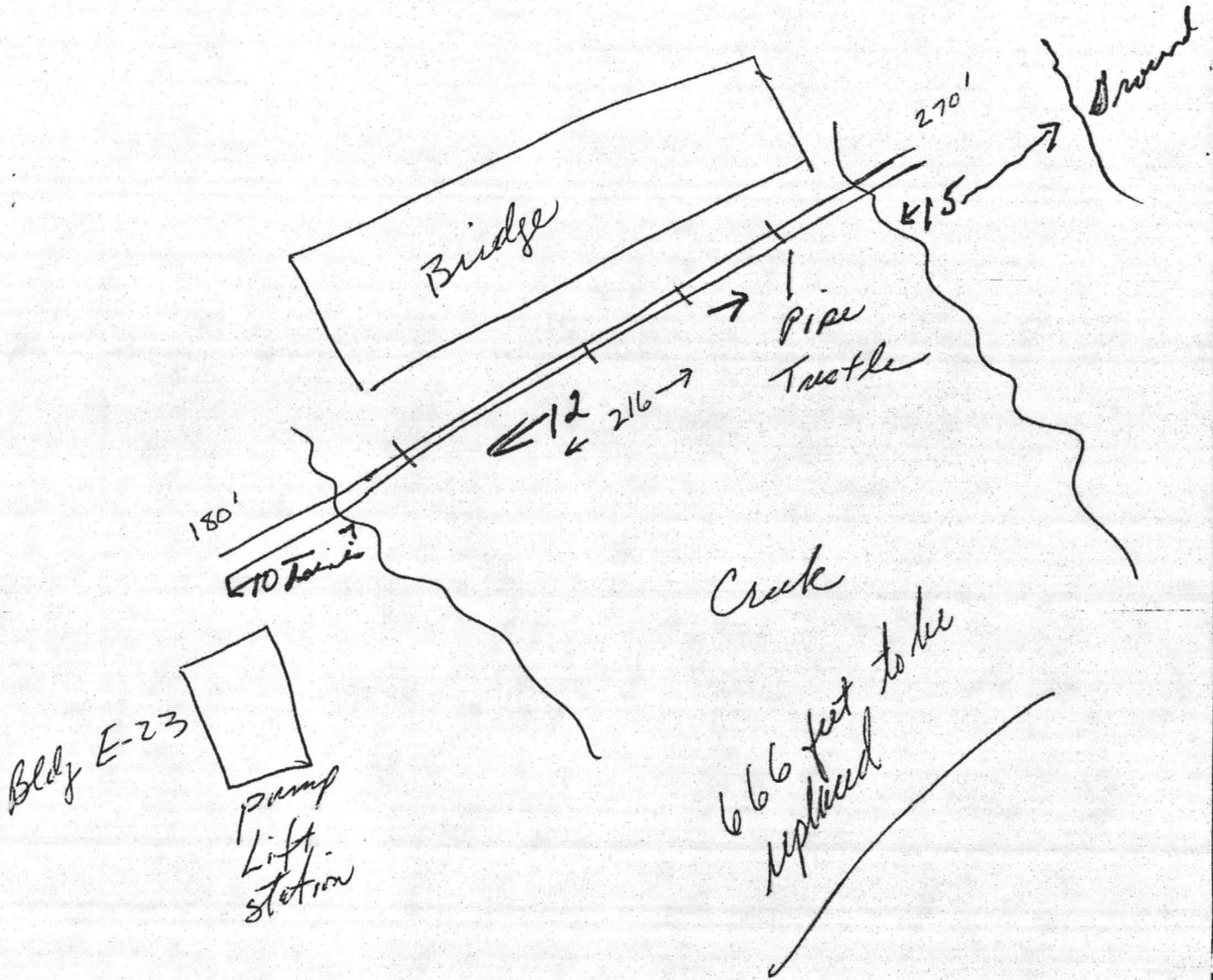
This sewage line was installed in the mid forties, and over the approximately 37 years of service it has deteriorated to a degree that it has been patched several times and would be more feasible to replace than to continue patching. Size of line to be replaced is 10" x 666'.

Estimated Cost: \$70,000

*Cancel*



18 ft joints

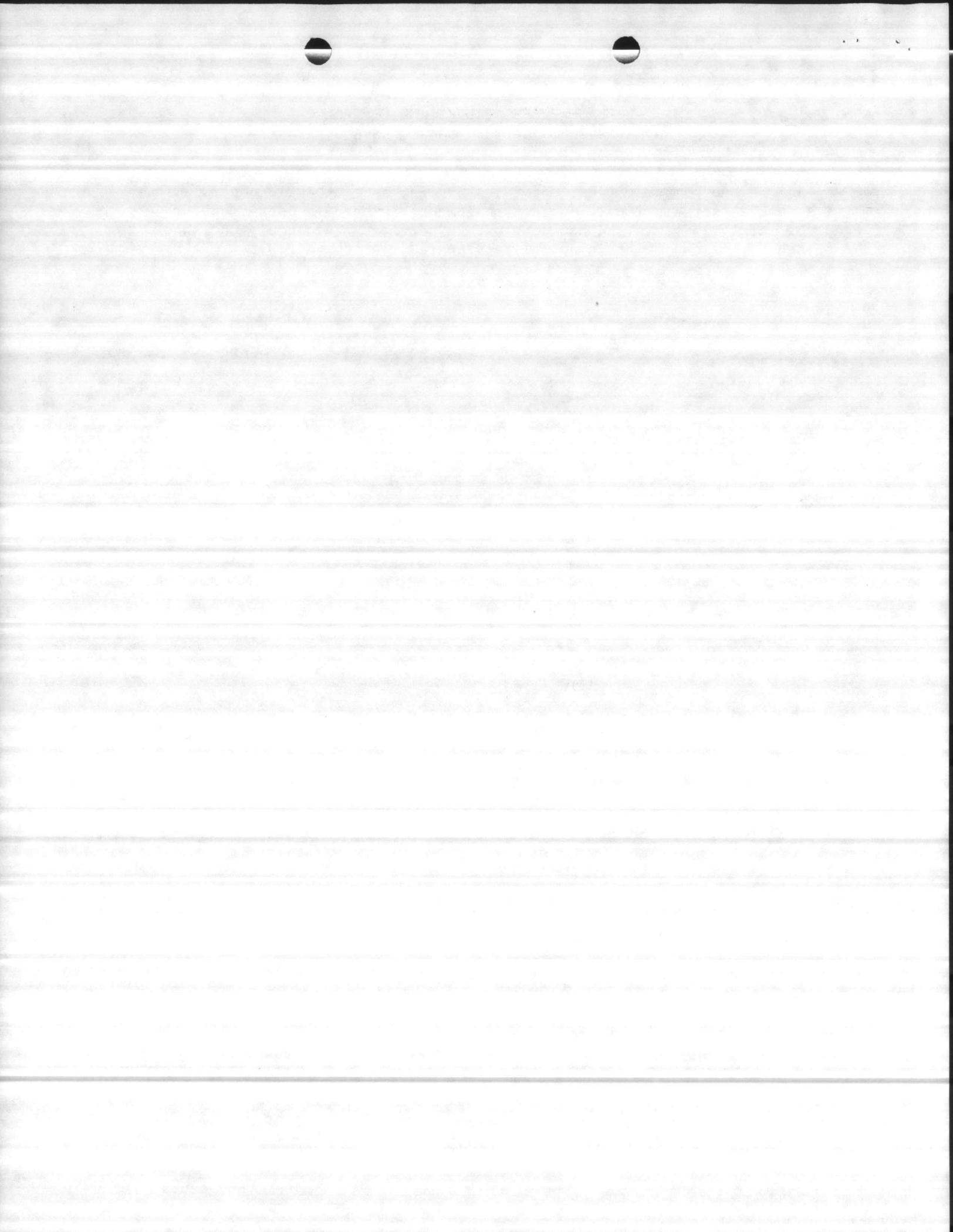




REPLACE PUMPS, VALVES AND CONTROLS  
BLDGS AS-206, AS-230, AS-426, AS-606, AS-517

Replace sewage pumps, valves, motors, starters, and automatic controls in five sewage lift stations. Subject equipment has been in operation for approximately 25 years and has worn out in service. This equipment should be replaced so we can maintain normal service and meet the N.P.D.E.S. requirement.

Estimated Cost: \$90,000



REPLACE AUXILIARY ENGINE - BLDG AS-110

The auxiliary engine was installed in 1953 and has worn out in service. It is not dependable for operation during commercial power outage. There is no method provided to treat water during power failures.

Recommend replacing auxiliary engine with a diesel generator to treat and pump water and give adequate lighting to comply with both state and federal regulations during power outage.

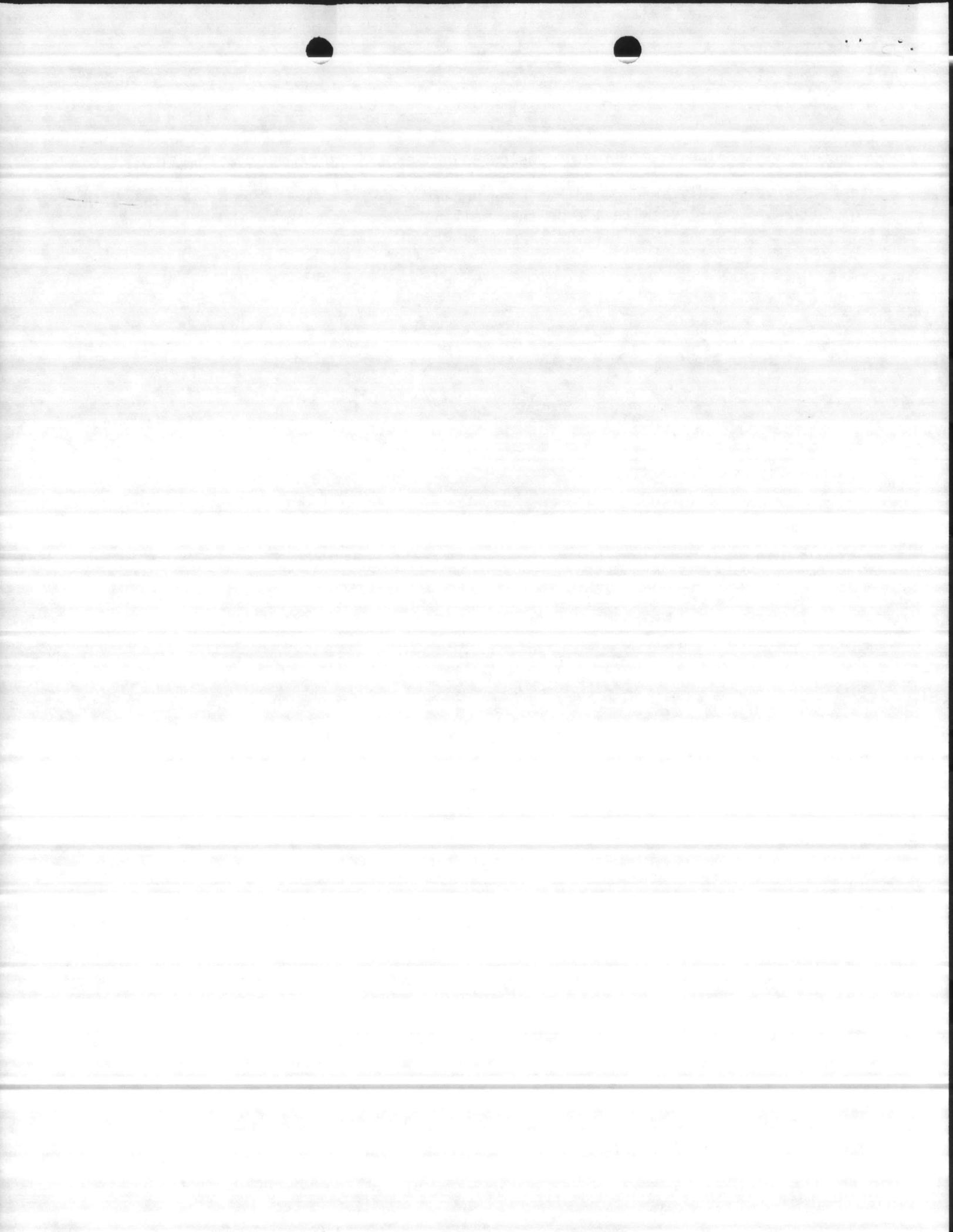
Estimated Cost: \$70,000



REPLACE TREATED WATER LINE - ONSLOW BEACH

The 10" treated water line at Onslow Beach located between the elevated water tank #SBA-108 and the Inland Waterway was installed in the middle forties, it is very badly eroded and has been repaired several times. Subject line should be replaced with a type that will not erode as much as the cast iron pipe. Pipe size 10" dia. and approximately 425' long.

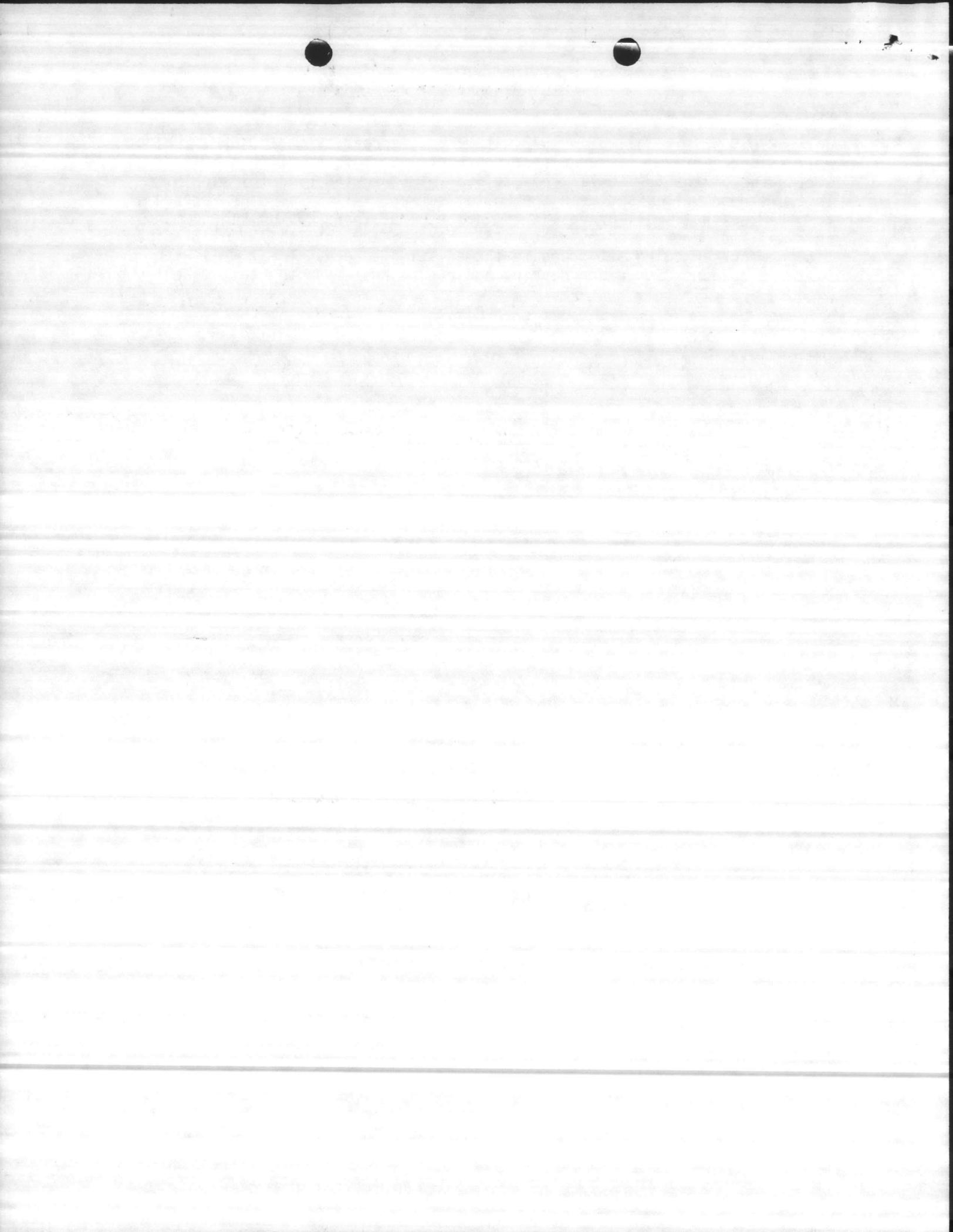
Estimated Cost: \$50,000



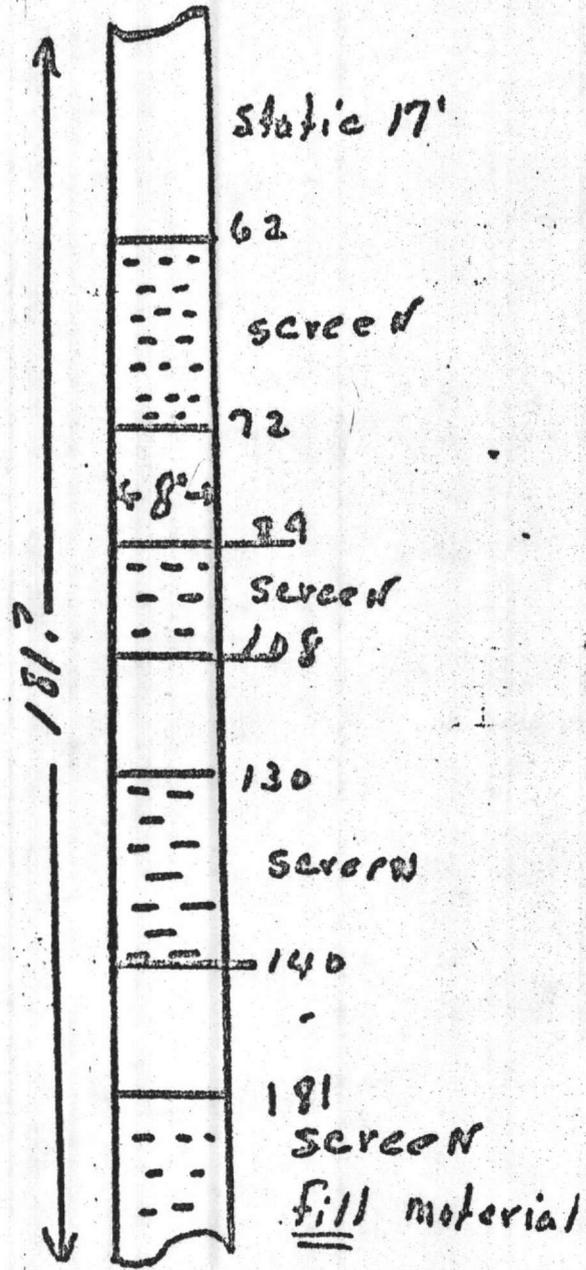
REPAIR WATER WELL - BLDG HP-610

Well HP-610 was installed in 1943 with a total capacity of 250 GPM. Subject well is an 8" gravel packed with a depth of 190'. This well has 50' of screen set at the 62' to 72', 88' to 108', 130' to 140' and 181' to 191' level with only 1' visible in the bottom screen. All screens are eroded to a degree that small gravel is coming into the inner casing. Recommend this well to be repaired by setting 45' of s.s. screen with 75' of 6" pipe with new screen being set opposite the existing screen. Treat well with acid and calgon. Surge and develop and run 24 hours pumping test. Well should produce approximately 200 GPM.

Estimated Cost: \$10,000



Bldg  
CID

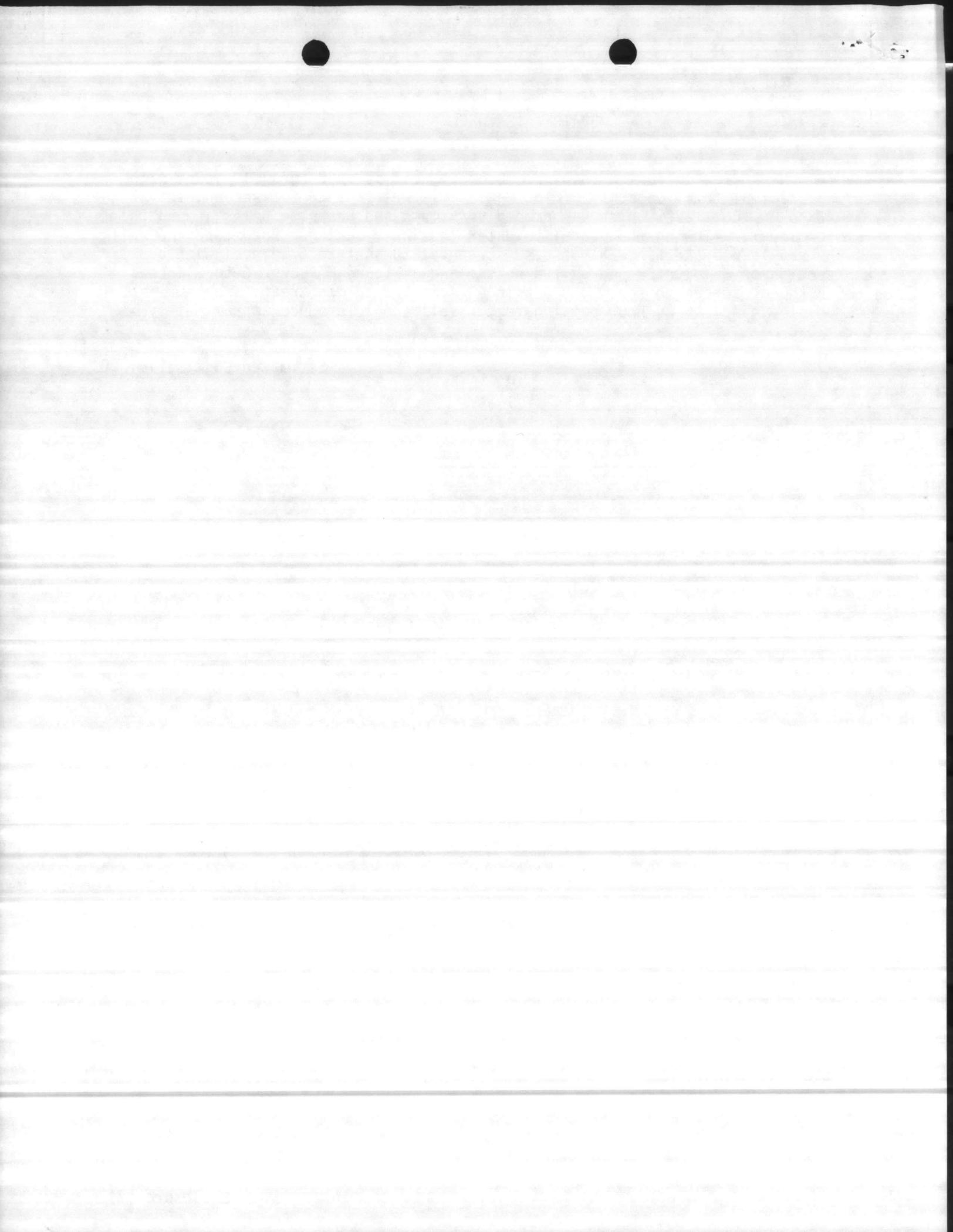




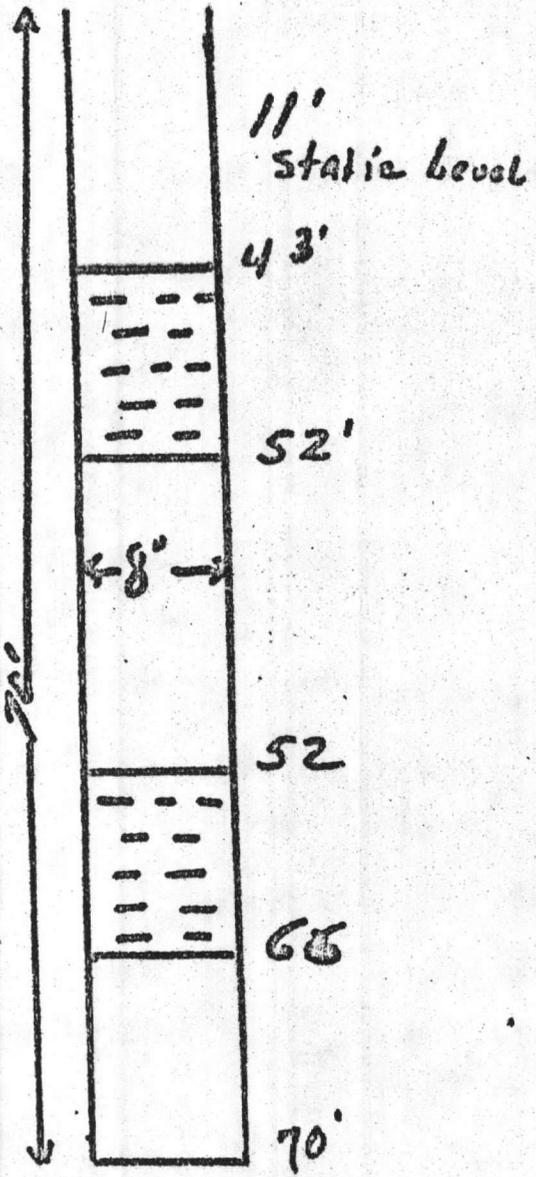
REPAIR WATER WELL - BLDG M-628

Well M-628 was installed in 1957. Subject well is an 8" gravel packed with an original total capacity of 150 GPM. This well has 23' of screen, set at the 43 to 66 foot level which has eroded very much and has some holes around the 50' level, allowing the gravel to enter the inner casing. Recommend the well be repaired by setting 25' of s.s. screen at the 42' to 67' level with a 3' section of 6" pipe capped on the bottom and a Figure K Packer 6 to 8 inches on top of screen to seal to 8" casing. Acid and calgon treat. Surge, develop, and run 24 hour pumping test. Well should produce approximately 125 GPM.

Estimated Cost: \$10,000



Bldg 628





MCA5  
AS110 Generator

|                          |   |           |          |          |          |
|--------------------------|---|-----------|----------|----------|----------|
| Hi Lift 60 HP            | } | 2080      | 3 $\phi$ | 1770 RPM | 60 cycle |
| Classwell 15 HP          |   | 2080/4400 | 3 $\phi$ | 1175 RPM | 60 cycle |
| Separator 75 HP          |   |           | 3 $\phi$ | 1770 RPM | "        |
| Surface Wash 30 HP *     |   | 2300/4600 | 3 $\phi$ | 3450 RPM | "        |
| Wash Water 75 HP *       |   | 2300/460  | 3 $\phi$ | 1185 RPM | "        |
| Wash Water Valve 75 HP * |   | 2300      | 3 $\phi$ | 2100 RPM | "        |

\* Not Required at same time as others.

**Calculate load to handle  
top 3.**

Info provided to Jann M. - 12-6-82

}

total 3.  
calculate last 3 samples

MAIN/FEC/rn  
11300  
25 Oct 1982

From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: M-1 Contract Requirements

1. It is requested that a contract be procured to perform the following work:

Replace Boiler No. 58 (Building SH-8) including expansion tank, related piping valves and boiler breeching. Replacement boiler should be a fire tube, hot water boiler with capacity of 936,000 BTU/hr.

Justification: Boiler tubes have pitted to the extent that some are plugged and others have been welded. The tube sheets are also badly deteriorated. Existing boiler is 23 years old.

Estimated Cost: \$15,000

2. Due to the condition of this boiler, it should be replaced prior to the 83/84 heating season. Therefore, it is requested that the contract be awarded no later than early 1983.

F. E. CONE

Copy to:  
Shop 81

MAINTENANCE  
1150  
2 Oct 1954

From: Director, Utilities Branch  
to: Director, Operations Branch

Subject: H-T Contract Requirements

It is requested that contract be placed to perform the following work:

Repair boiler No. 23 (Building 212) including expansion tank, relief valves and boiler pressure. A second one boiler should be repaired. The boiler has a capacity of 30,000 lbs.

Additional boiler tubes have failed to the extent that some of the tubes have become plugged. The tubes should be replaced. Existing boiler is 12 years old.

Due to the condition of this boiler, it should be replaced prior to the 1954 heating season. Therefore, it is requested that the contract be awarded later than early in the year.

L. E. GONE

1150  
2 Oct 1954

MAIN/FEC/rn  
11300  
2 Sep 1982

From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: Additional M-1 Contract Requirements

Encl: (1) Replace Water Line, BA-138, back-up data

1. Enclosure is provided for inclusion in the M-1 contract requirements for FY 83.

F. E. CONE

W. L. WALKER  
11:50  
2 Sep 1962

From: Director, Utilities Branch  
To: Director, Operations Branch

Subject: Addition of M-1 Contract Requirements

Enc: (1) - Replace meter line BA-130 back up data

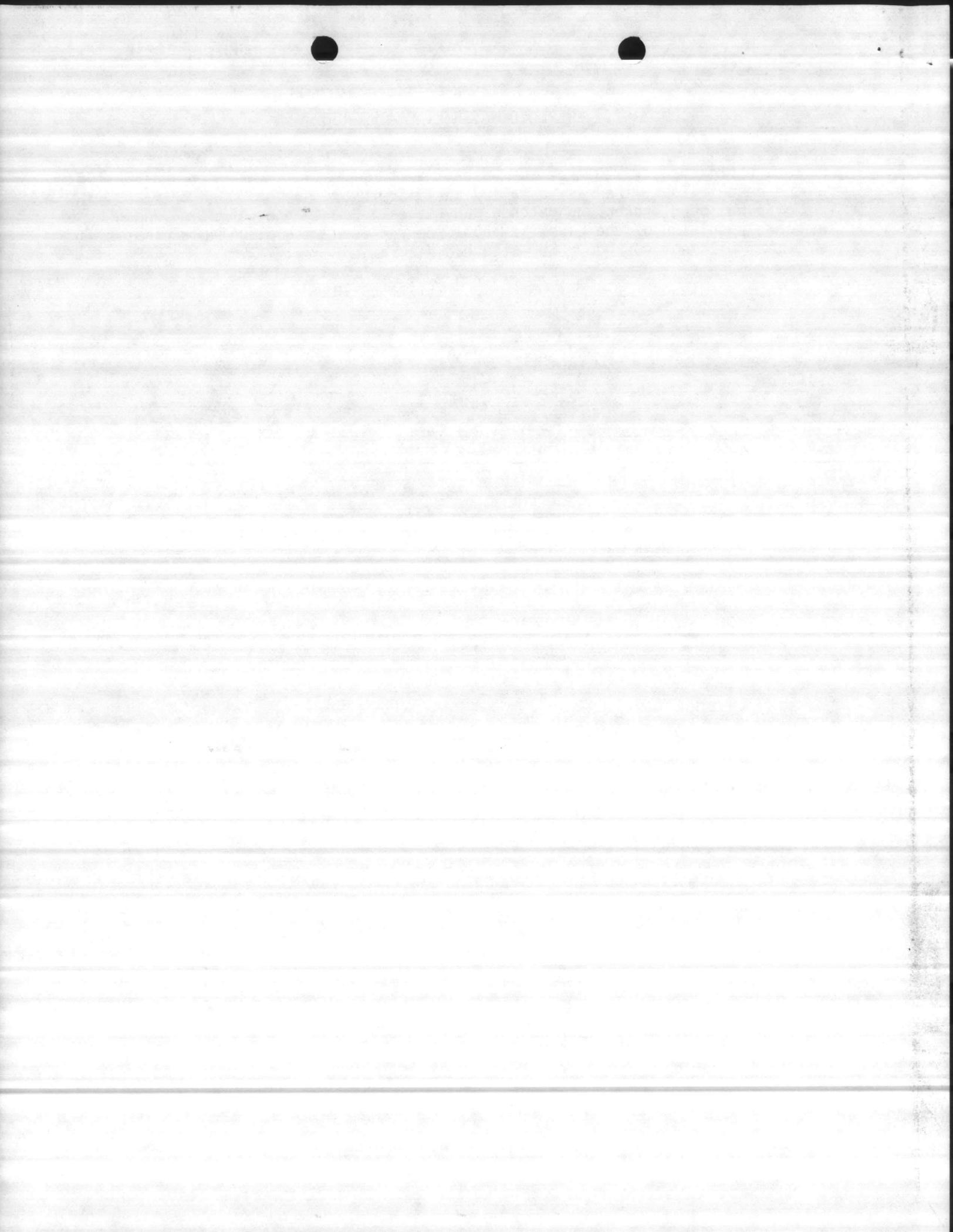
Enclosure is provided for inclusion in the M-1 contract requirements  
W. L. WALKER

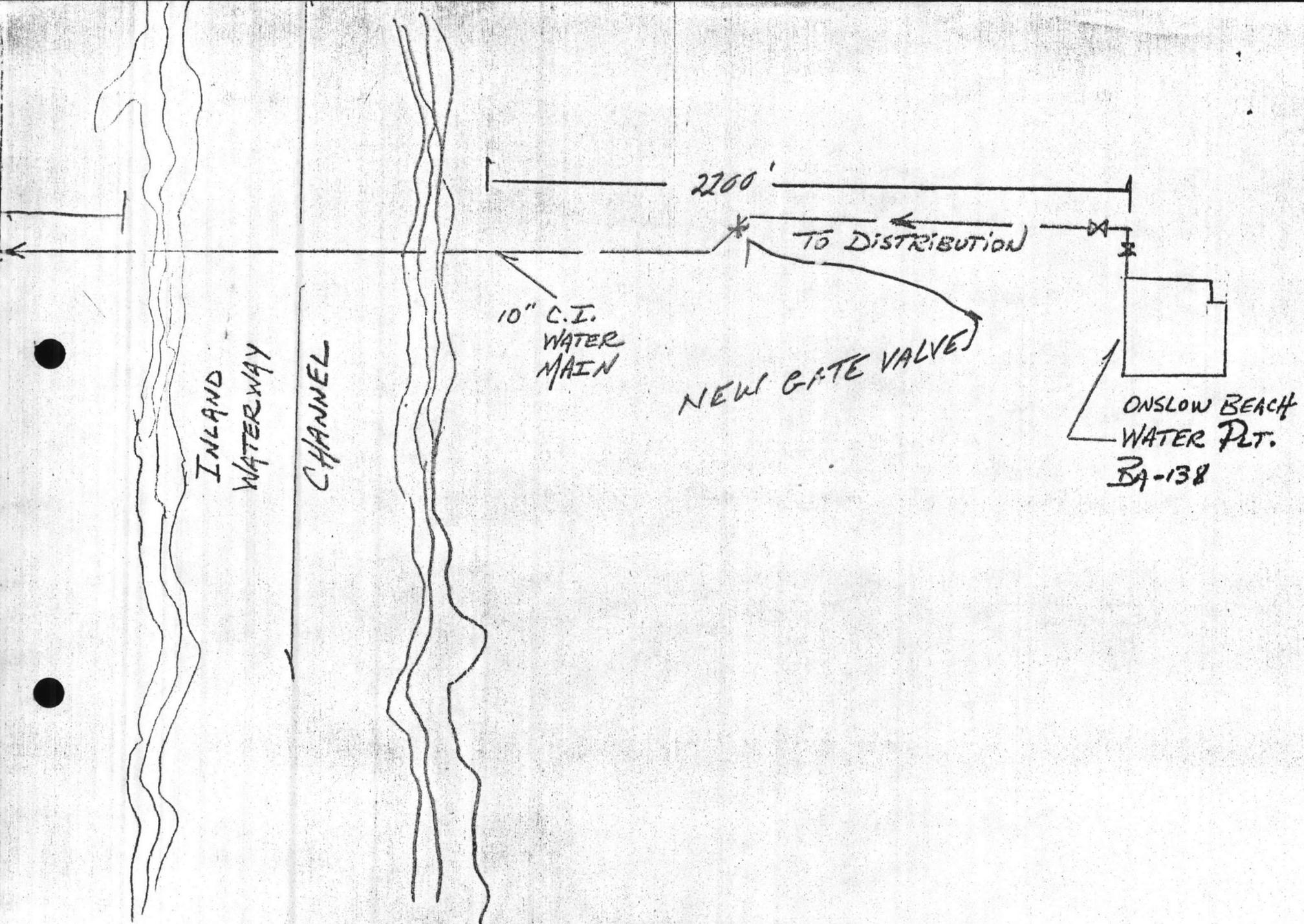
W. L. WALKER

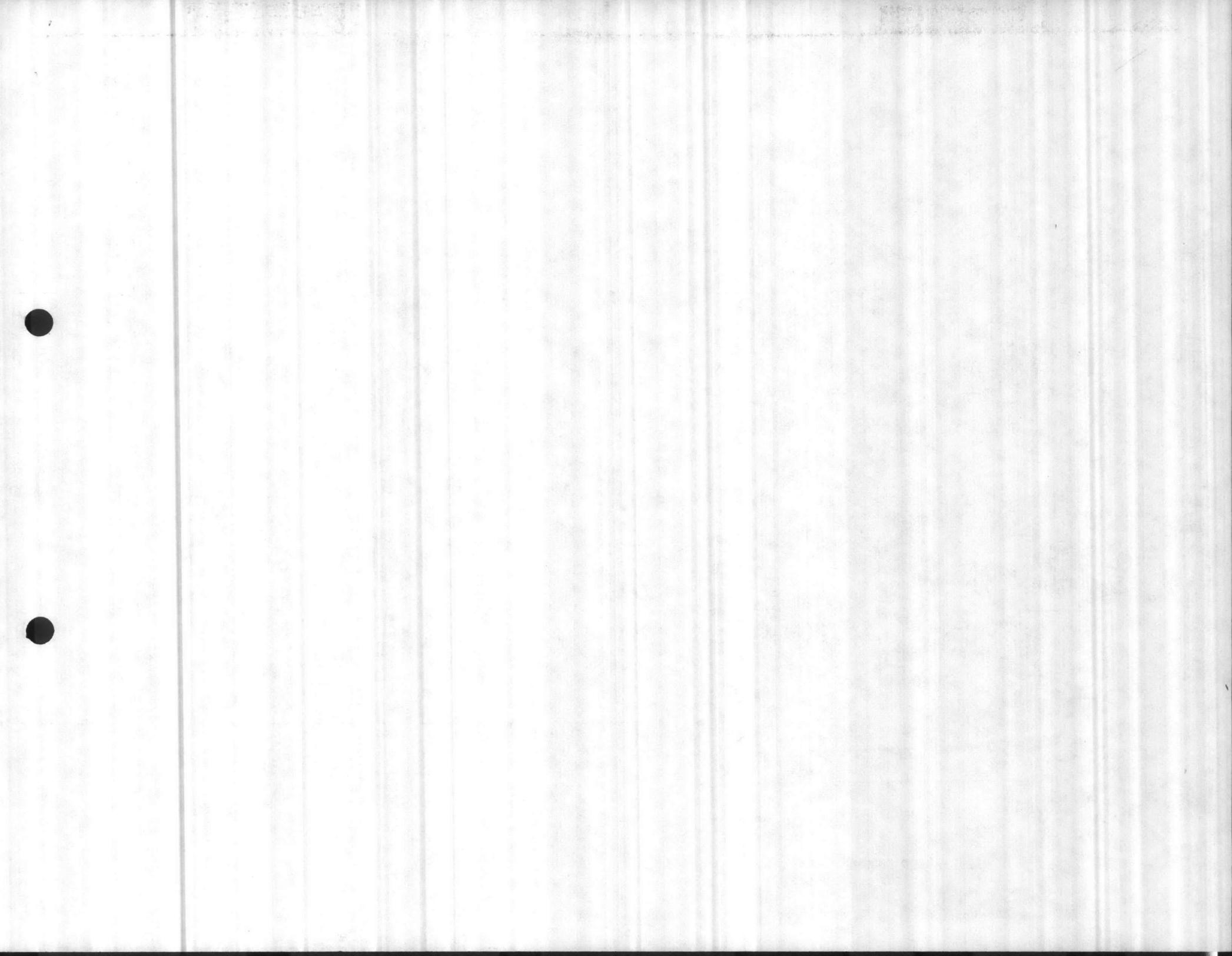
REPLACE WATER LINE - BA-138

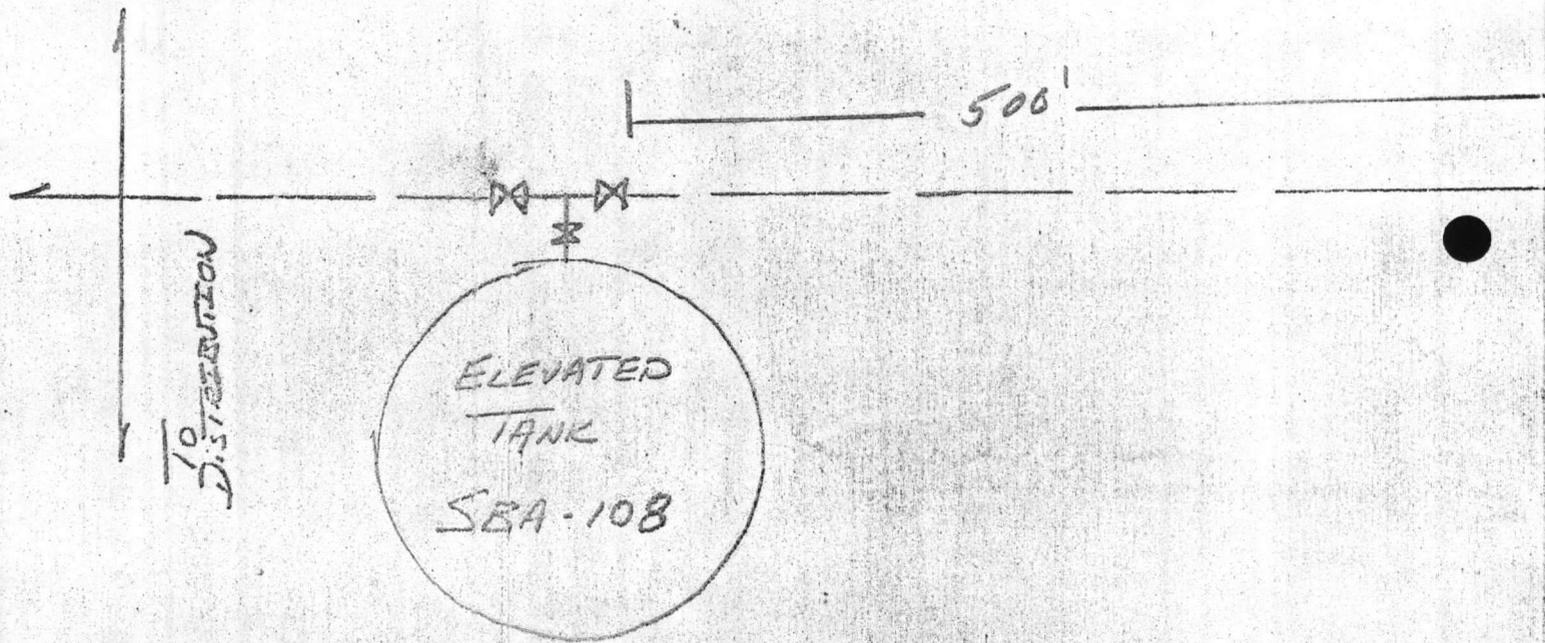
Replace approximately 2700' of 10" water line from BA-138 to water tank #SBA-108 on the beach. This line was installed in 1943. Over the period of 39 years, the pipe has been broken and patched many times. Due to the corrosion and weakened condition of the pipe, it should be replaced with a suitable plastic pipe that will not corrode. See attached diagram.

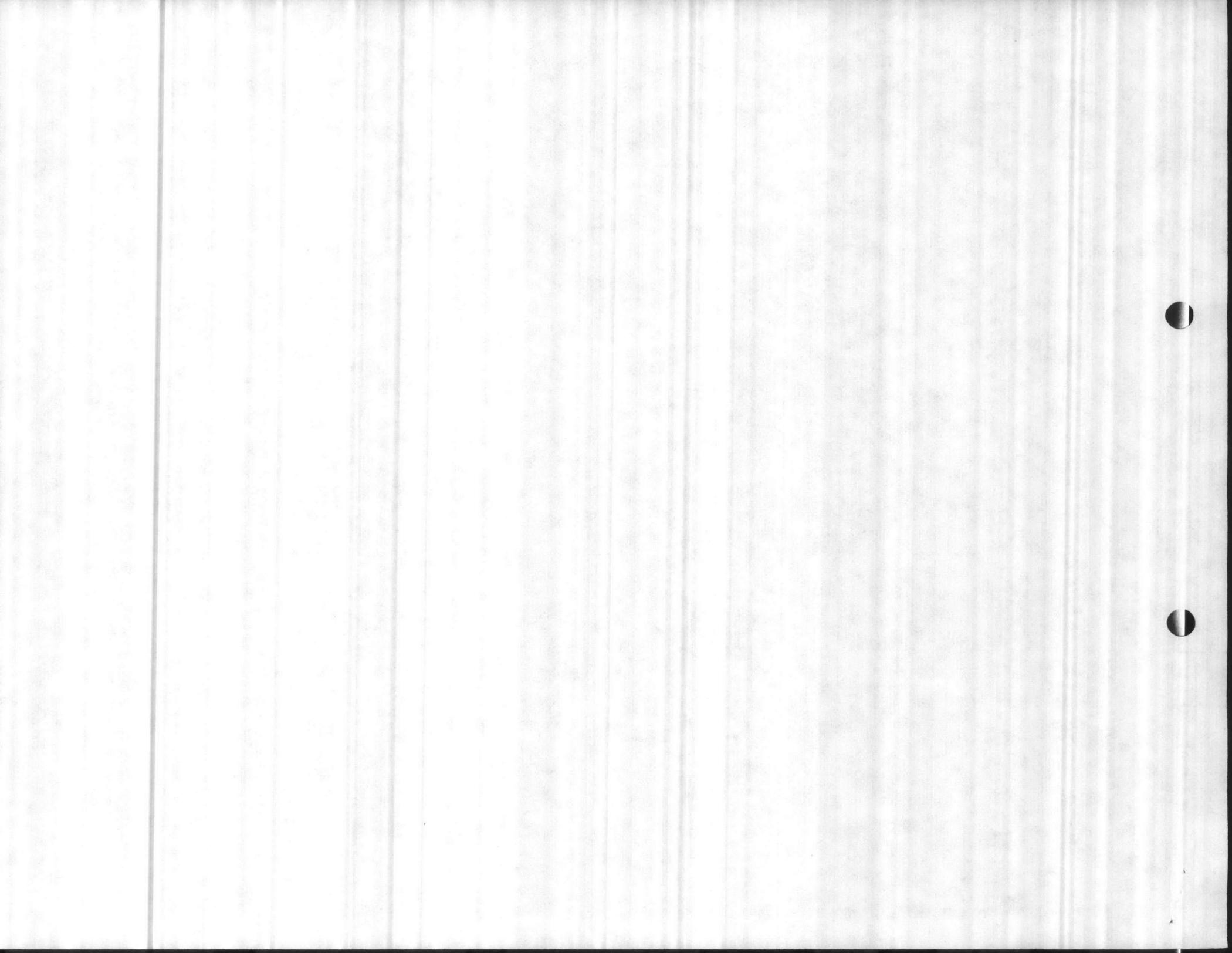
Estimated Cost: \$30,000

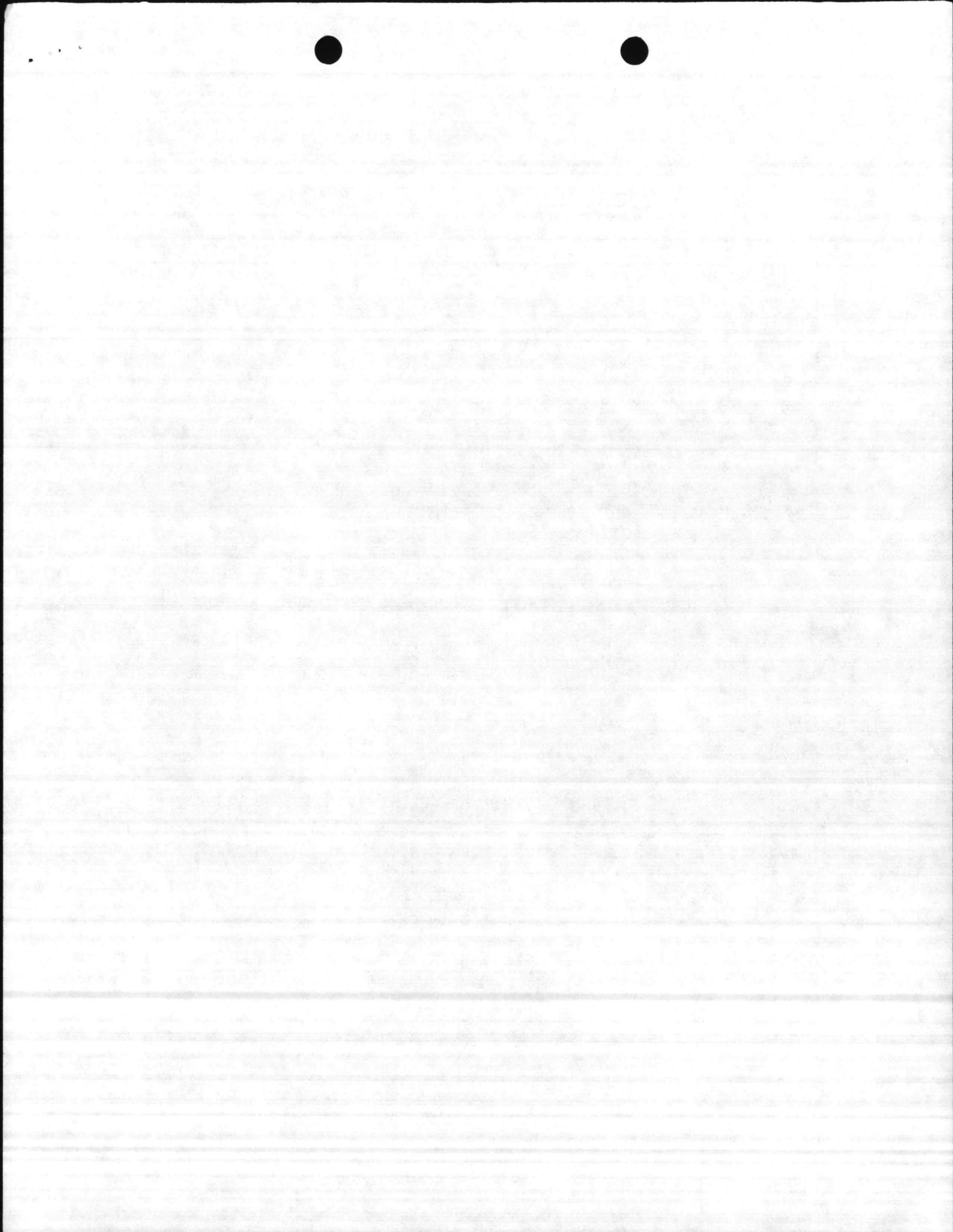


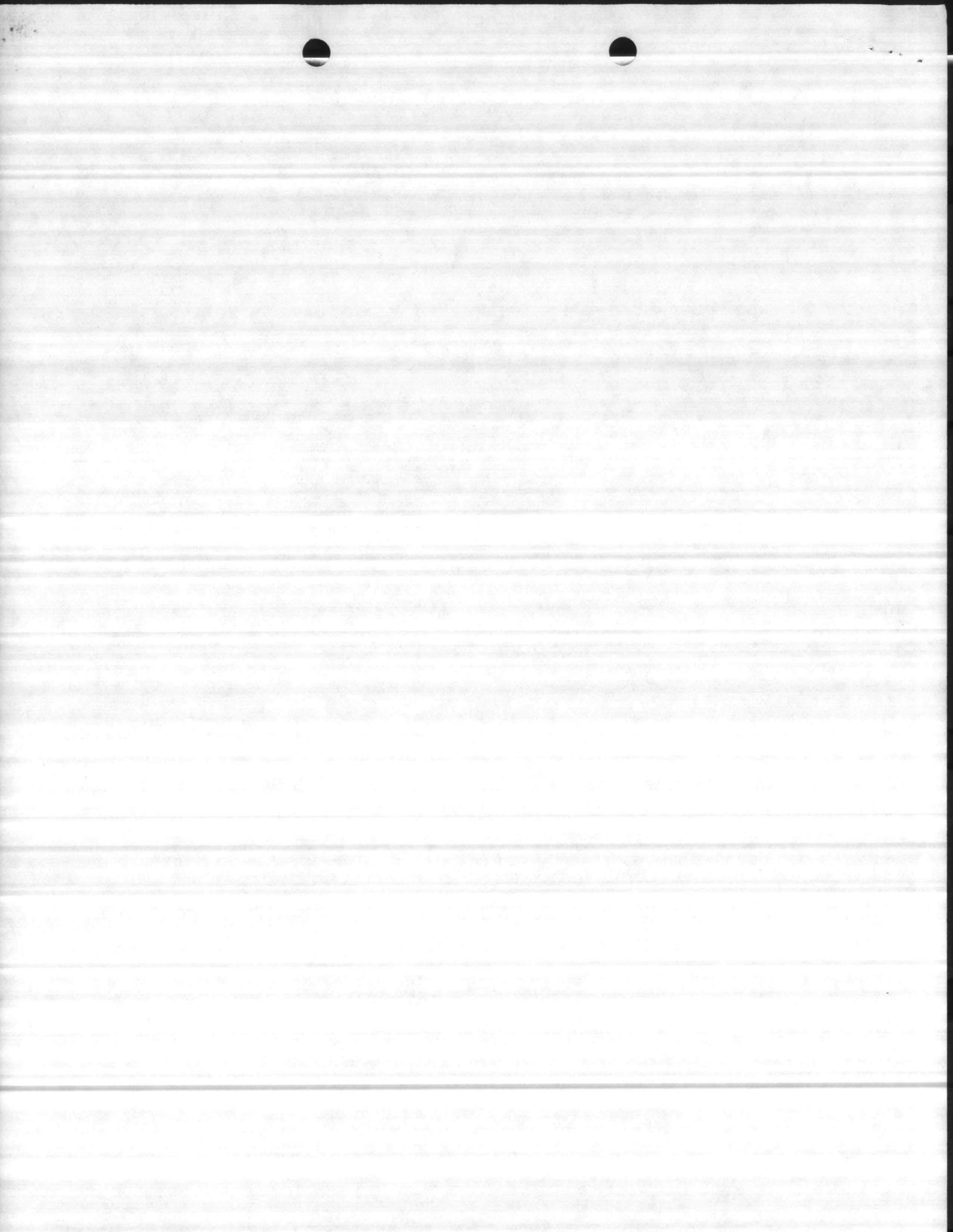












**BASE MAINTENANCE DEPARTMENT**  
Marine Corps Base  
Camp Lejeune, North Carolina 28542

MAIN/FEC/rn  
11300  
20 Aug 1982

From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: Additional Contract Requirements

Encl: (1) M-2 Project, Replace Filter Underdrain System, Bldg 20 *See M-2 File*  
(2) M-1 Project, Replace Six Steam Stop Valves, Bldg 1700 *M-2 1700 Project*  
(3) M-1 Project, Replace Boiler No. 88, Bldg 670  
(4) M-1 Project, Replace Boiler No. 22, Bldg 45

1. Enclosures (1) through (4) are provided for appropriate action.

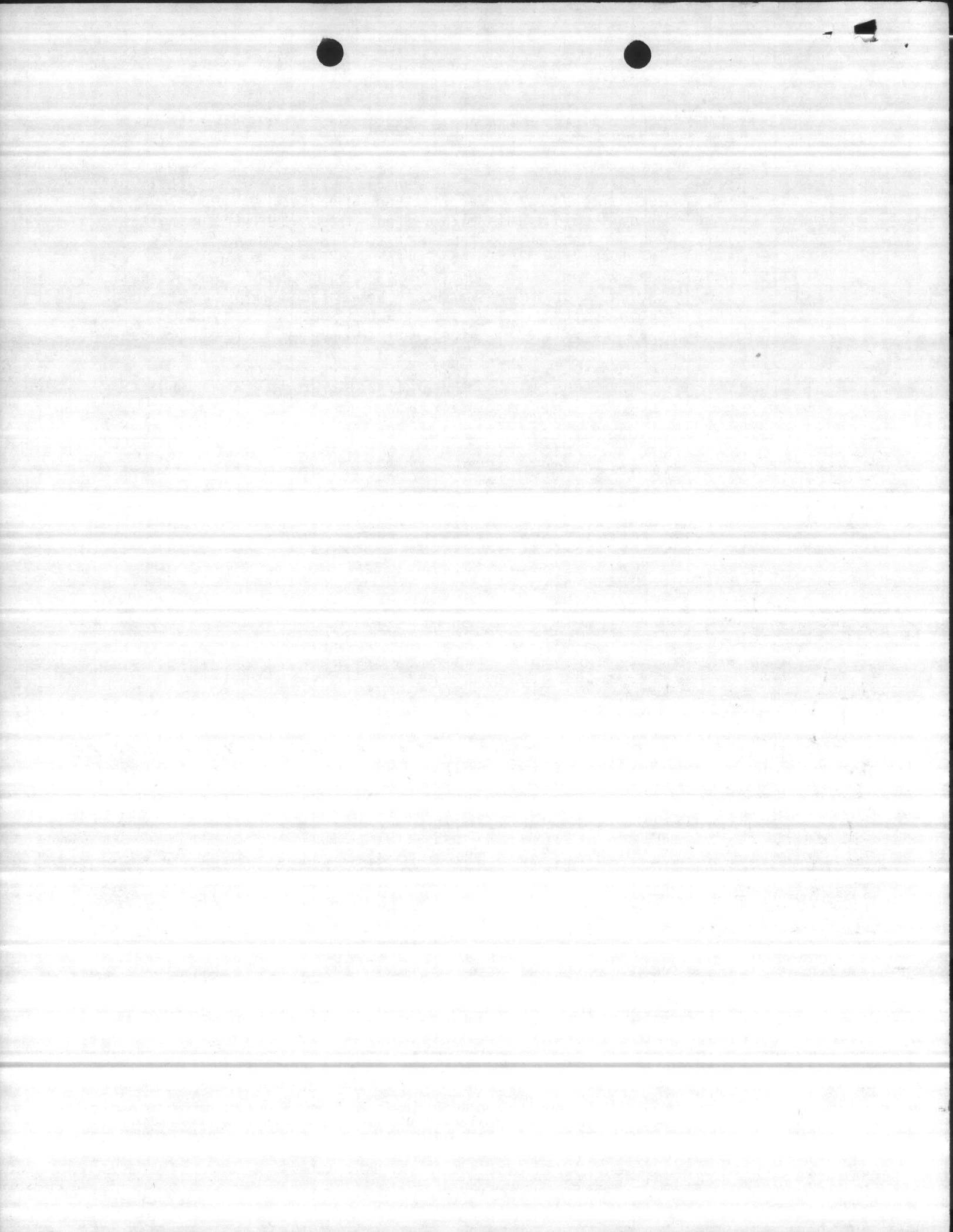
C. L. WETHERINGTON  
Acting



REPLACE FILTER UNDER DRAIN - SYSTEM B-20

The five rapid sand filters were installed in 1942, each having a capacity of one M.G.D. These filters have never filtered or backwashed evenly over the entire bed as they should. This allows the bed to mud ball, fusing the sand and gravel together and causing the water to channel around the bed. This results in high turbidity in finished water and frequent replacement of filter bed. These filters were rebuilt in 1975 but did not correct the problem. The filter under drain system should be replaced with a system and bed like the Racon system shows on the attached sheet. This would give an even backwash and filtration; longer filter runs with less backwash water.

Total Estimated Cost: \$200,000



## The only design that filters and backwashes over entire filter bed area.

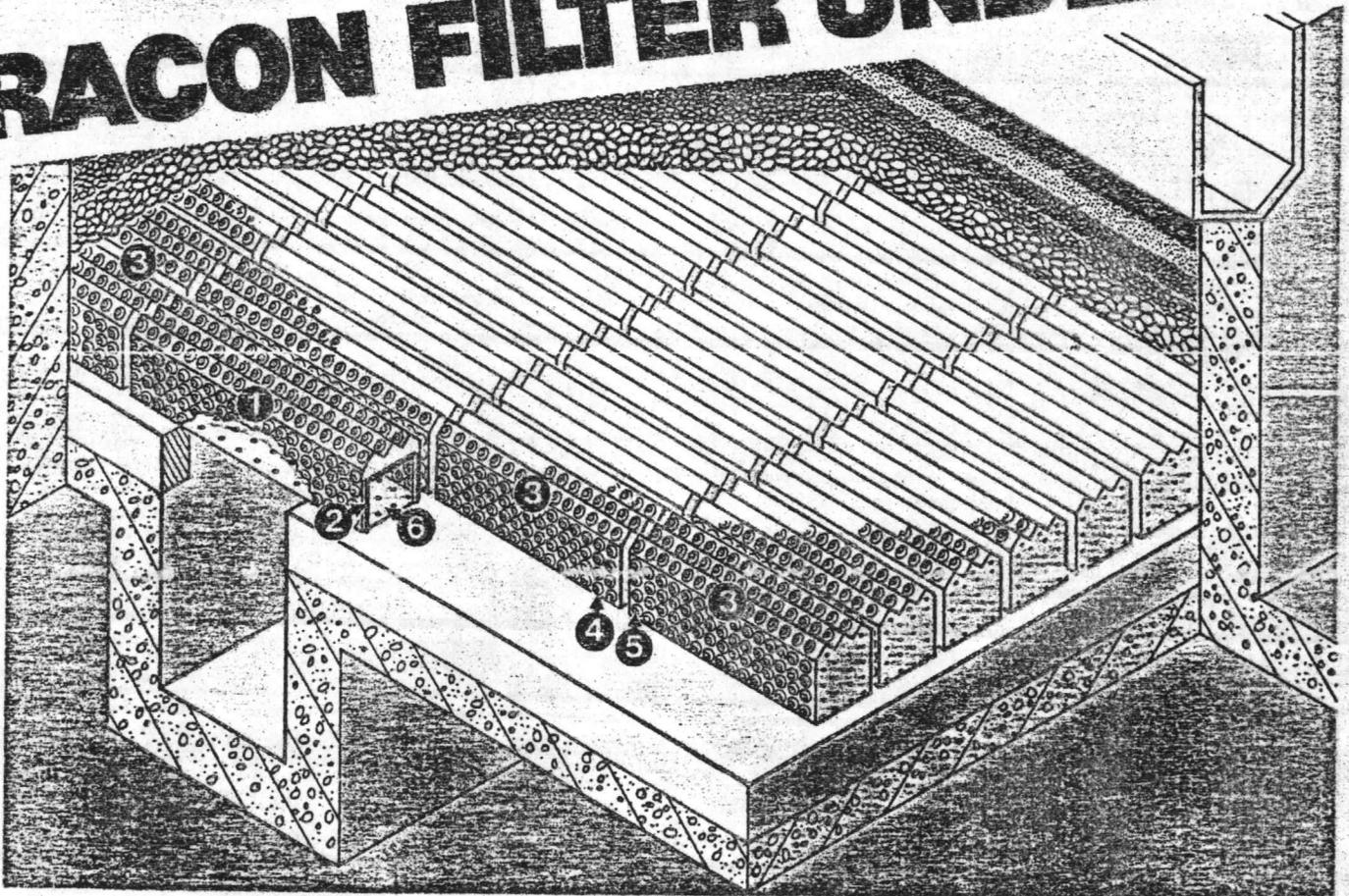
The direct result of several years of intensive research and development, the RACON Water Filter Underdrain\* is engineered and manufactured to meet the most stringent filtering and backwashing requirements. To this end, this new underdrain offers a combination of advantages provided by no other design.

Of special importance: The RACON is the only system that allows full use of the total filter area.

At the same time, its exclusive design and construction features make it the most economical filter underdrain on the market.

To suit the widest range of applications, the patented RACON System is furnished in standard sections of various lengths, or can be economically custom manufactured to suit any requirement—for both new installations, or to upgrade older systems.

# RACON FILTER UNDERDRAIN

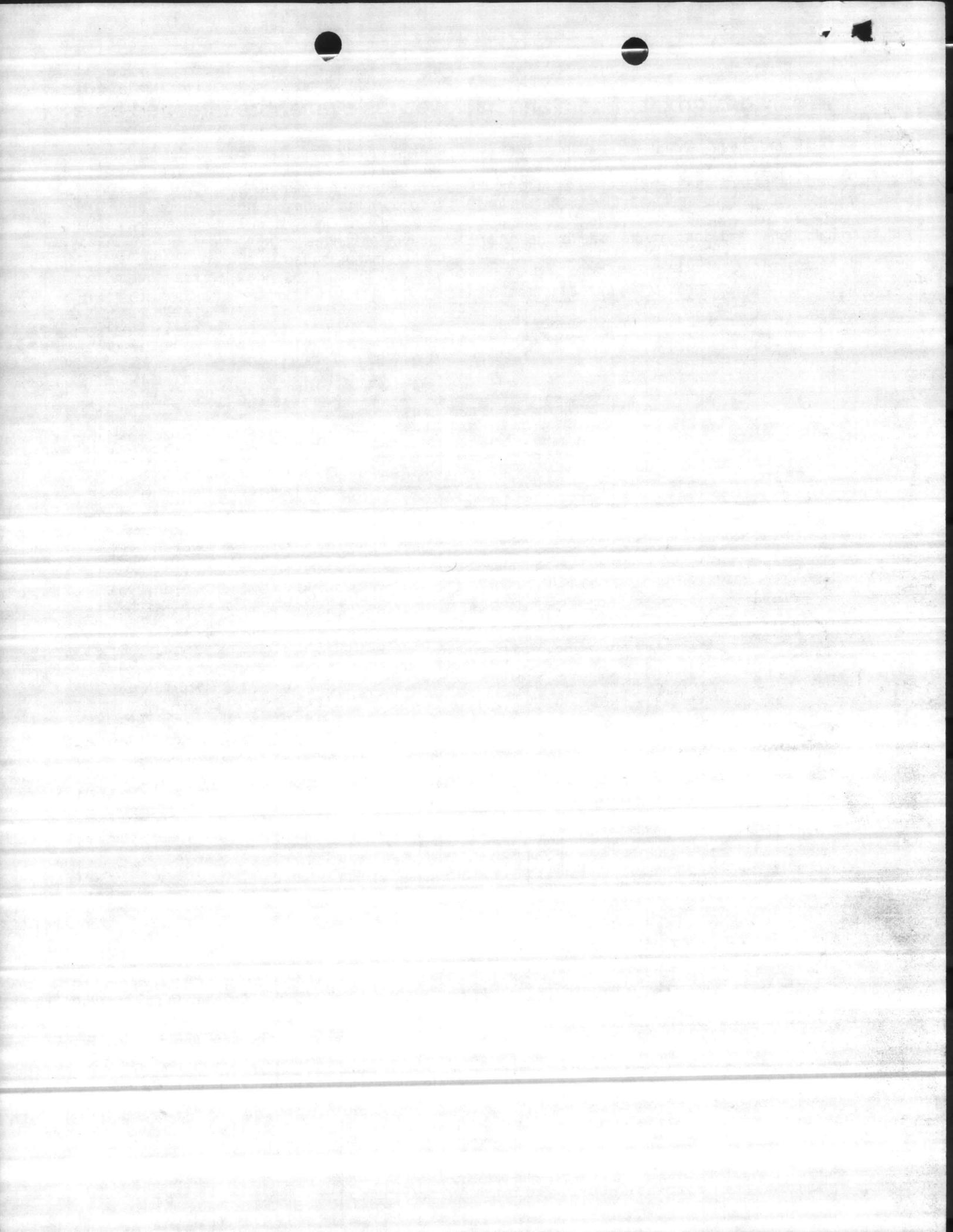


In the RACON System, the flume unit (1) is normally 48" in length, and is equipped with locking end plates (2) for connecting with adjoining sections (3), which are furnished in any specific length that may be required to fit the filter area.

All sections are 12" in height, 12" in width, flanged and have raised dimples (4)—each with a full-ported, unobstructed orifice (5).

In installing the system, the bottom plate (6) has a series of holes for grouting the connected sections in place. These are further secured by the grouting along the sides, which penetrates the dimpled orifices, assuring a firmly anchored filter bed.

\*U.S. Pat. No's. D-240,923; D-240,925; D-240,926; D-240,927.



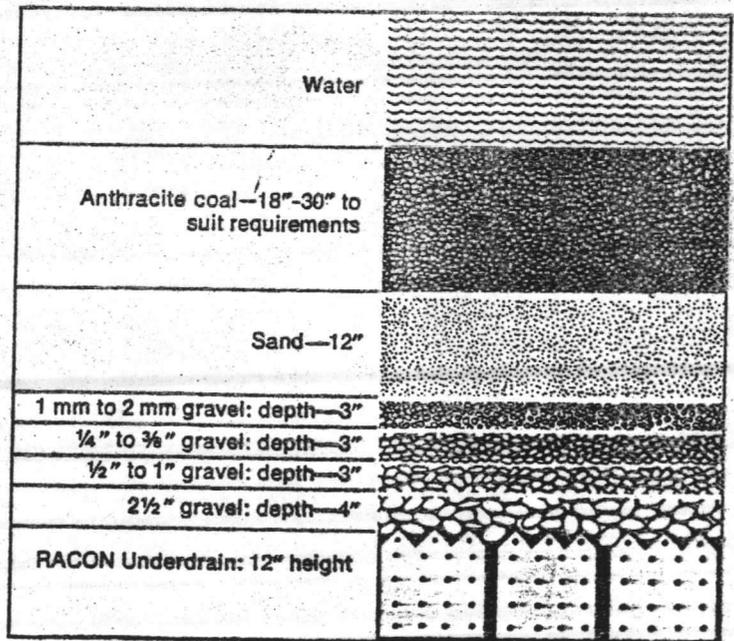
# typical installation

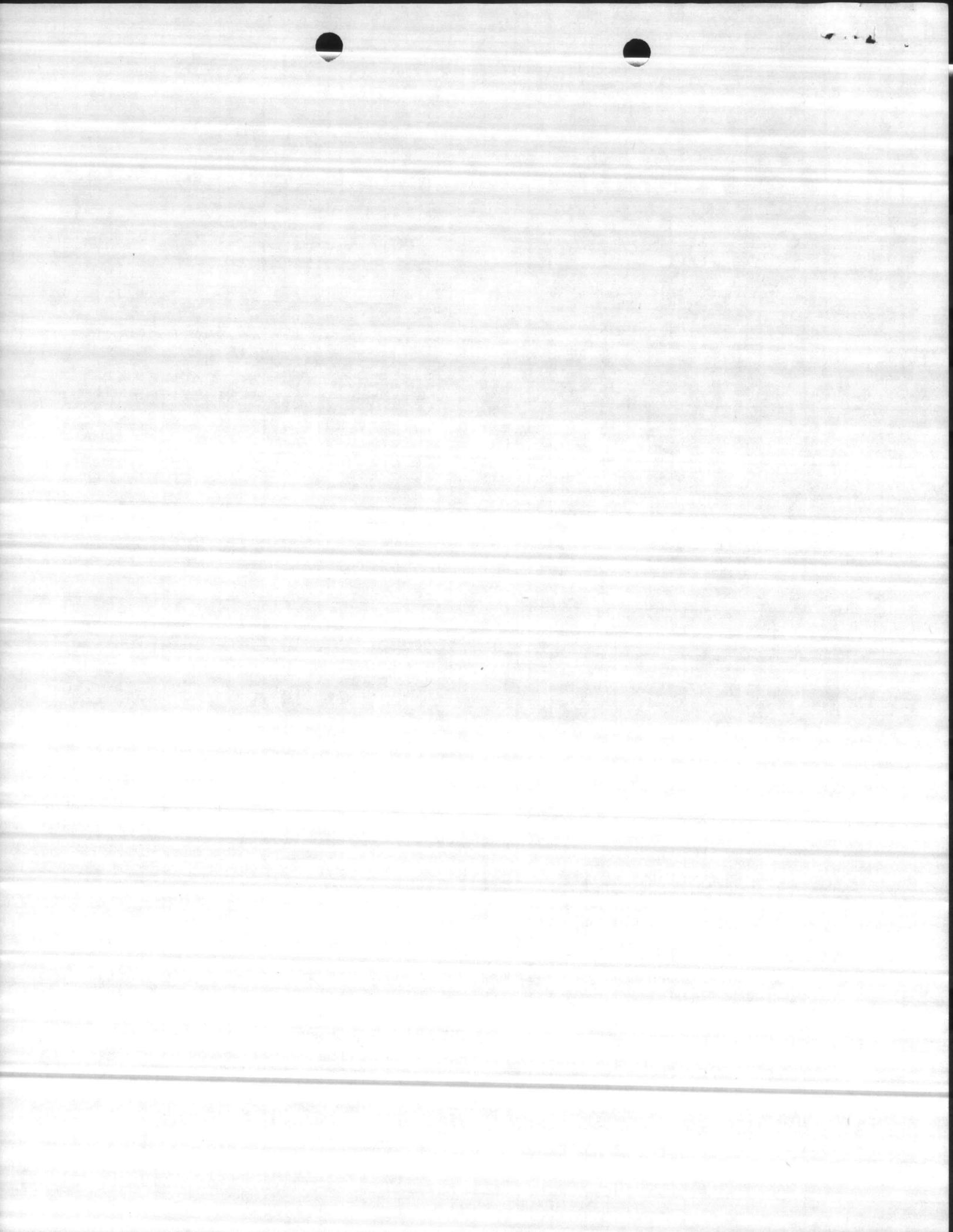


After the underdrain sections have been positioned and connected by a locking arrangement to form a continuous lateral that is in alignment, they are grouted to hold them firmly in place.

The first level of 2½" gravel is hand placed on the angled underdrain surface between the dimples in such a way that there is no blockage of the orifices. The next layers of gravel are added and leveled with a hand rake or level board. Of importance is the fact that the dimples are spaced so that the large gravel cannot rest on them, thereby ensuring 100% filtering and washing of the sectional grout lines.

The illustration indicates the size and depth of gravel and other filter media used for a typical installation. However, this can be varied to meet any specific requirement.



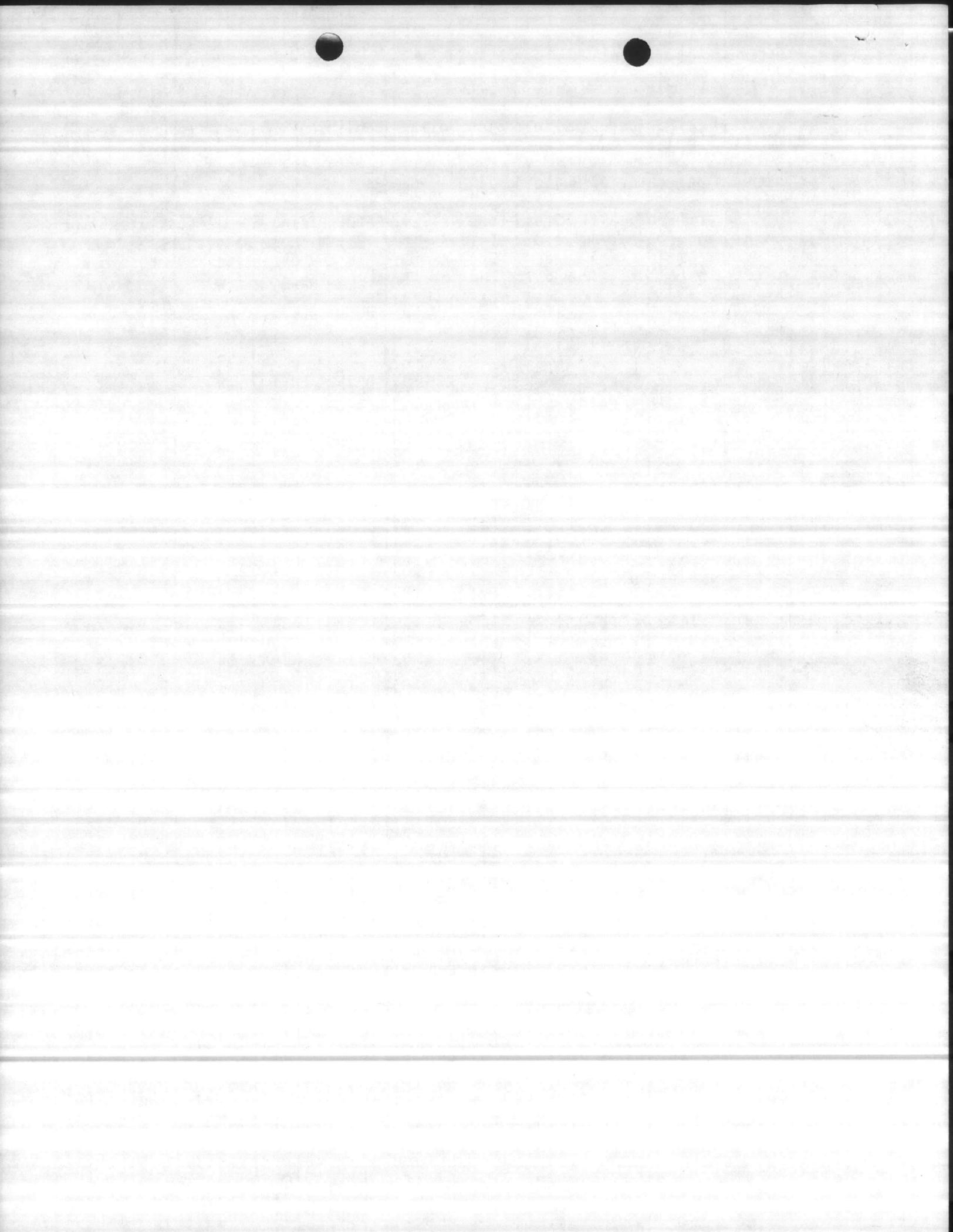


Replace Six Steam Stop Valves - Building 1700

1. Project is located at Building 1700.

Provide and replace six Steam Stop Valves, Gate, Rising Stem - Cast Steel 300 PSI steam. ( 2 ea - size 8" ) (4 ea - size 12"). These valves are located on the main steam header. They are worn to the extent it is impossible to isolate the boilers for repairs due to valves leaking.

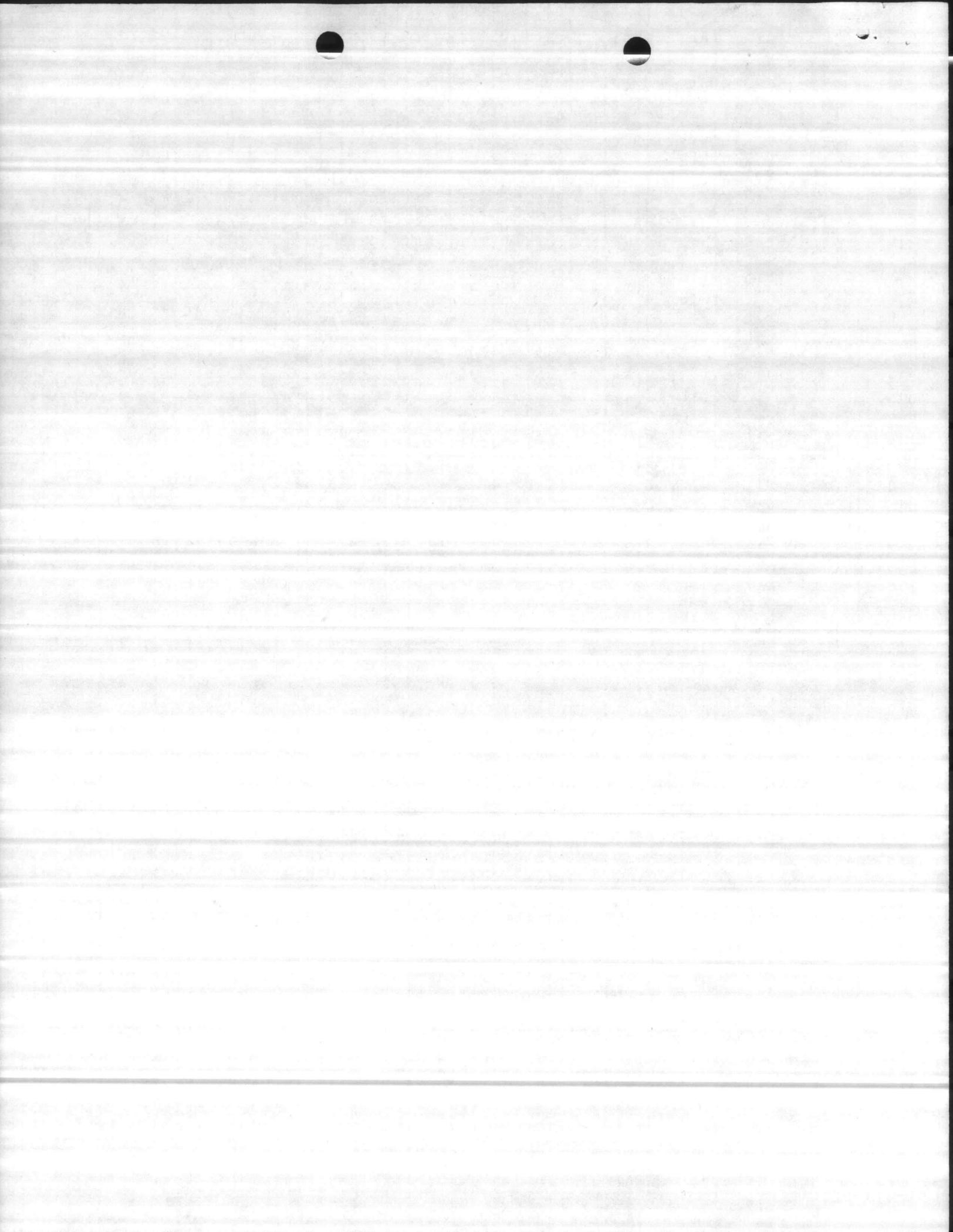
Estimated Cost: \$70,000



Replace Boiler No. 88 - Building 670

1. Project is located at Building 670. Provide and replace #88 Boiler. This unit has been retubed and the tube sheet has deteriorated to the point of needing to be replaced. Boiler capacity 502,076 BTU per hour. Type - Fire tube.

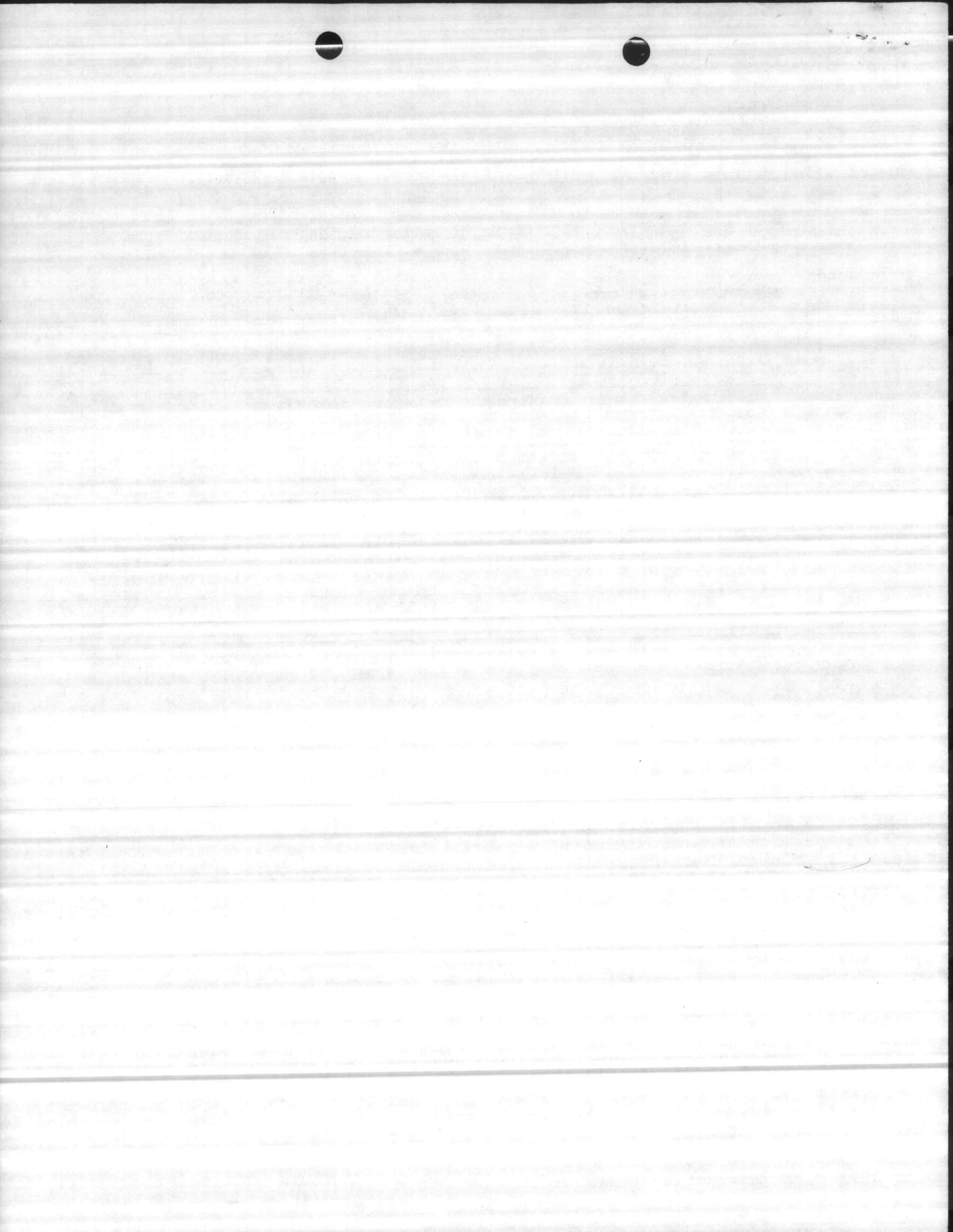
Estimated Cost: \$16,000



Replace Boiler No. 22 - Building 45

1. Project is located at Building 45. Provide and replace #22 Boiler pumps, valves, and piping. This boiler is 30 years old and has heavy pitting on tubes. Boiler size needs to be increased due to present boiler being fired at maximum to keep building warm. Also this boiler has been retubed two times. Boiler capacity 836,800 BTU per hour. Type - Fire tube.

Estimated Cost: \$25,000



*mu*  
MAIN/FEC/rn  
11300  
25 Jun 1982

From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: FY 83 M-1 Contract Requirements

Encl: (1) List of FY 83 M-1 Contract Requirements

1. A list of contract requirements for FY 83 accomplishment is provided by the enclosure. This list represents contract requirements that can be identified at this time. It is anticipated that additional contract work will be required. These additional requirements will be forwarded upon identification.

2. M-2 contract requirements for inclusion on the BMAR will be provided in the near future.

C. L. WETHERINGTON  
Acting

ALPHACON

2001 1001

Director, Util. Division  
To: Director, Operations Division

Subject: FY 03-04 Contract Requirements

Re: (1) FY 03-04 Contract Requirements

A list of contract requirements for FY 03-04 is provided in the enclosure. This list represents contract items that can be identified for FY 03-04. It is anticipated that additional contract items will be identified. These additional requirements will be forwarded on identification.

The contract requirements for the above are included in the enclosure. The items are:

Director, Util. Division  
Director, Operations Division

LIST OF FY-83 M-1 CONTRACT REQUIREMENTS (LESS THAN \$75,000)

STEAM GENERATION SECTION

1. Project is located at Building M-625. Project is to provide and replace condensate receiver tank, valves, float controls and alarms.

COST: \$20,000

Justification: Tank has excessive pitting and has been patched to the point it is not reliable for steam plant operation.

2. Project is located at Building M-230. Project is to provide and replace oil burners on #38, #39, and #40 boilers.

COST \$70,000

Justification: Burners are worn with no repair parts available.

3. Project is located at US0. Project is to provide and replace Boiler #61.

COST: \$15,000

Justification: Cast iron sections have deteriorated to the point the heat passes are short circuited causing a very low efficiency.

WATER/SEWAGE SECTION

~~1. Repair deep well, Building M-628.~~

~~Cancel - To be done on FY 82  
M1 Contract along with HP.612  
COST: \$30,000~~

~~Justification: Well was installed in 1957 with a capacity of 150 GPM. The well screens has collapsed and filled casing with gravel. This well should be repaired by removing gravel and inserting a smaller screen, casing new gravel and a new pump.~~

2. Replace mechanical equipment in ~~two~~<sup>3</sup> primary tanks, Building 22.

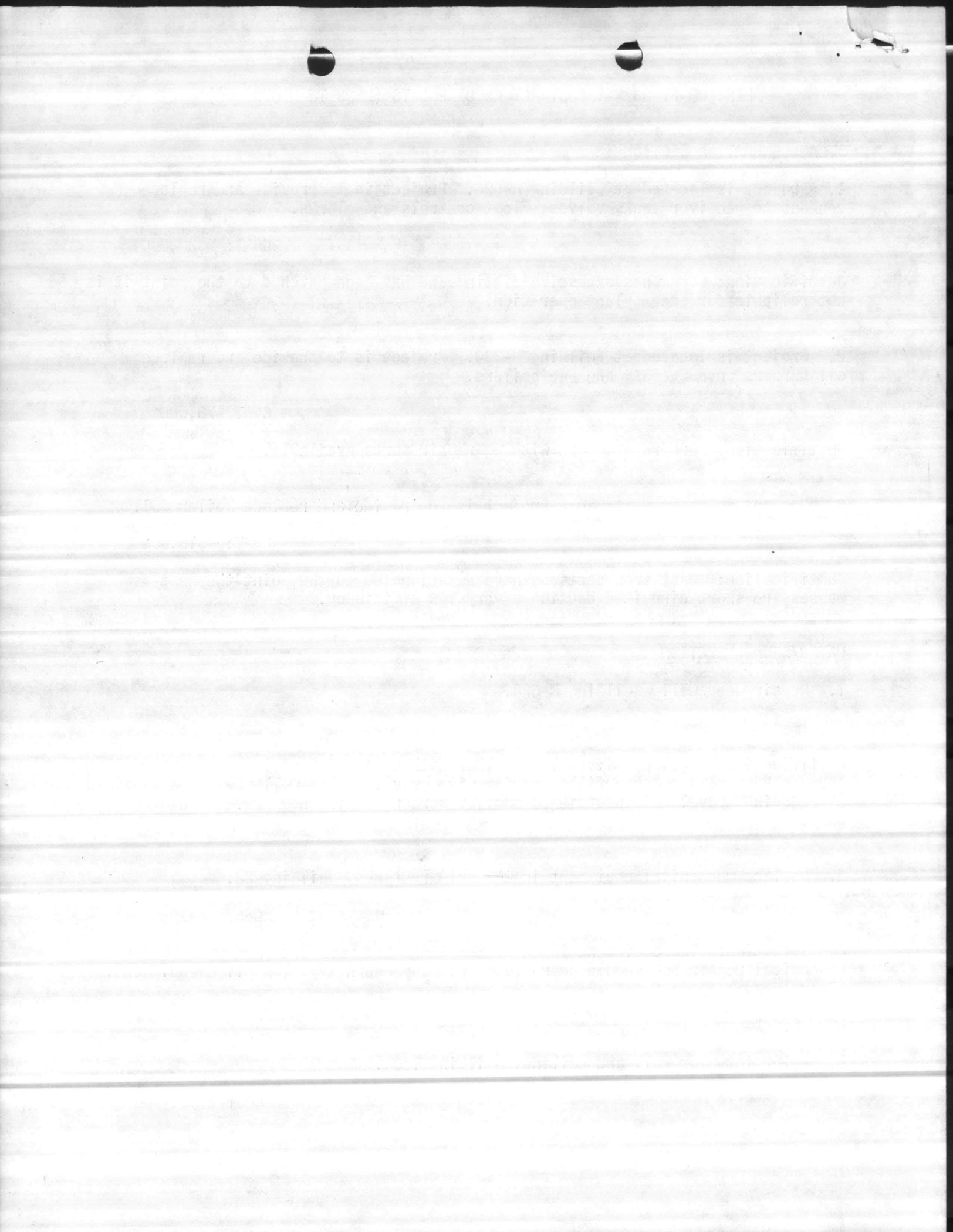
COST: \$70,000

Justification: The equipment in these ~~two~~<sup>3</sup> tanks has worn out in service beyond economical repair and should be replaced with a modern type long life equipment.

COLD STORAGE PLANT

1. Paint interior wall and ceiling, Building 1300.

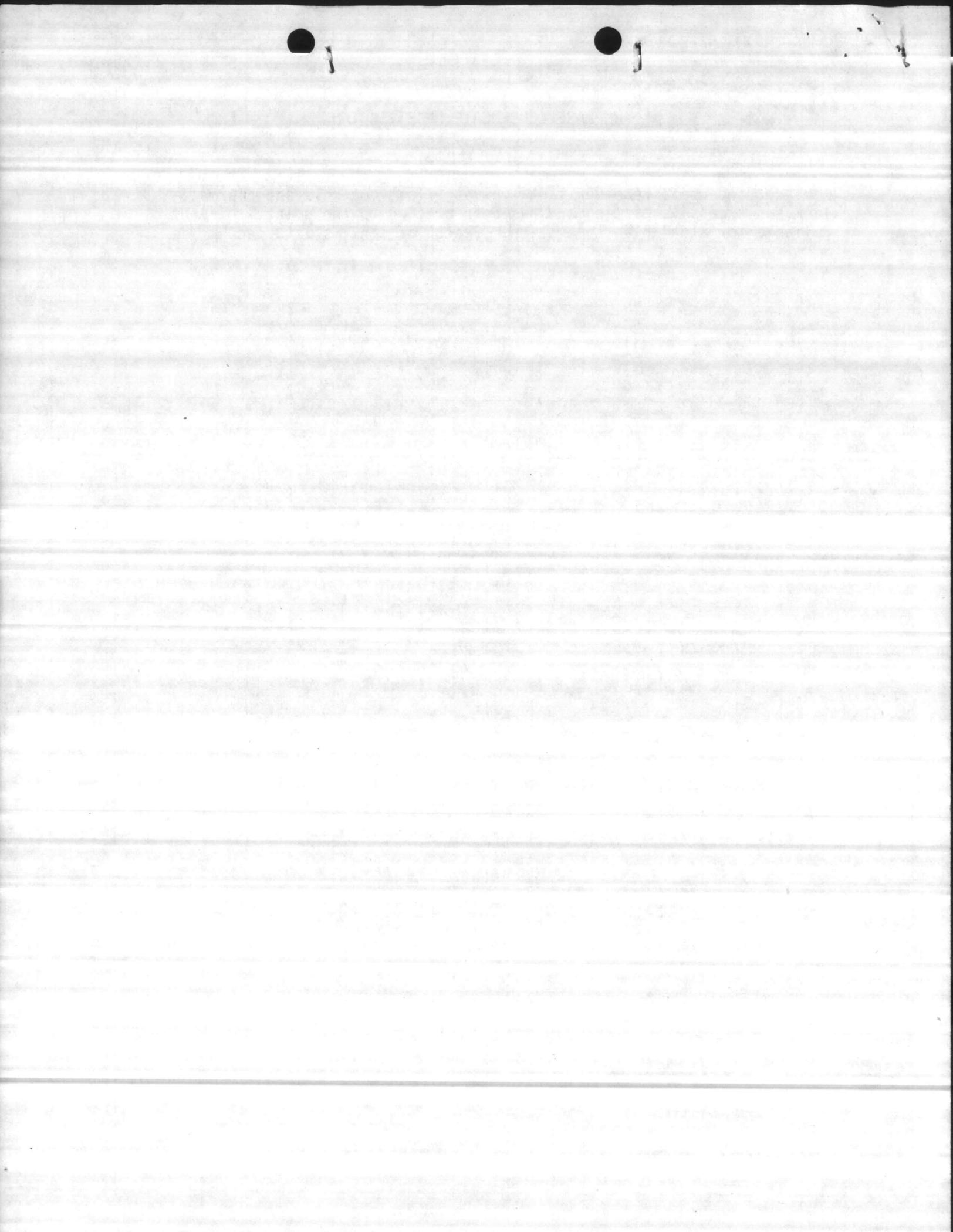
COST: \$30,000



REPLACE CONDENSATE RECEIVER TANK  
BUILDING M-625

Replace condensate receiver tank, valves, float controls and alarms. Tank has excessive pitting and has been patched to the point it is not reliable for steam plant operation. Sketch of tank is attached.

Est. Cost \$ 20,000



Replace Condensate Tank

Building

M-625

18 FT X 5'6" X 5'6"

TRAP LINE

4'3"

5'5"

1/2" screened TAP

1 1/2" WATER FROM MAKEUP TANK

5" Line  
Center of Drum  
9. FT.

TRAP LINE

1" Line From Act. TRAP LINE

3"

5'6"

5"

3'5"

12"  
5"

11 X 15  
MANHOLE

3'3"

1 FT

APPROX  
2 FT Level

1 FT

2 FT

12"

Bottom

2" DRAIN

(Center)  
2 FT  
3" Line  
TO TRANSFER PUMPS

1 1/2" DRAIN

6" Suction Header

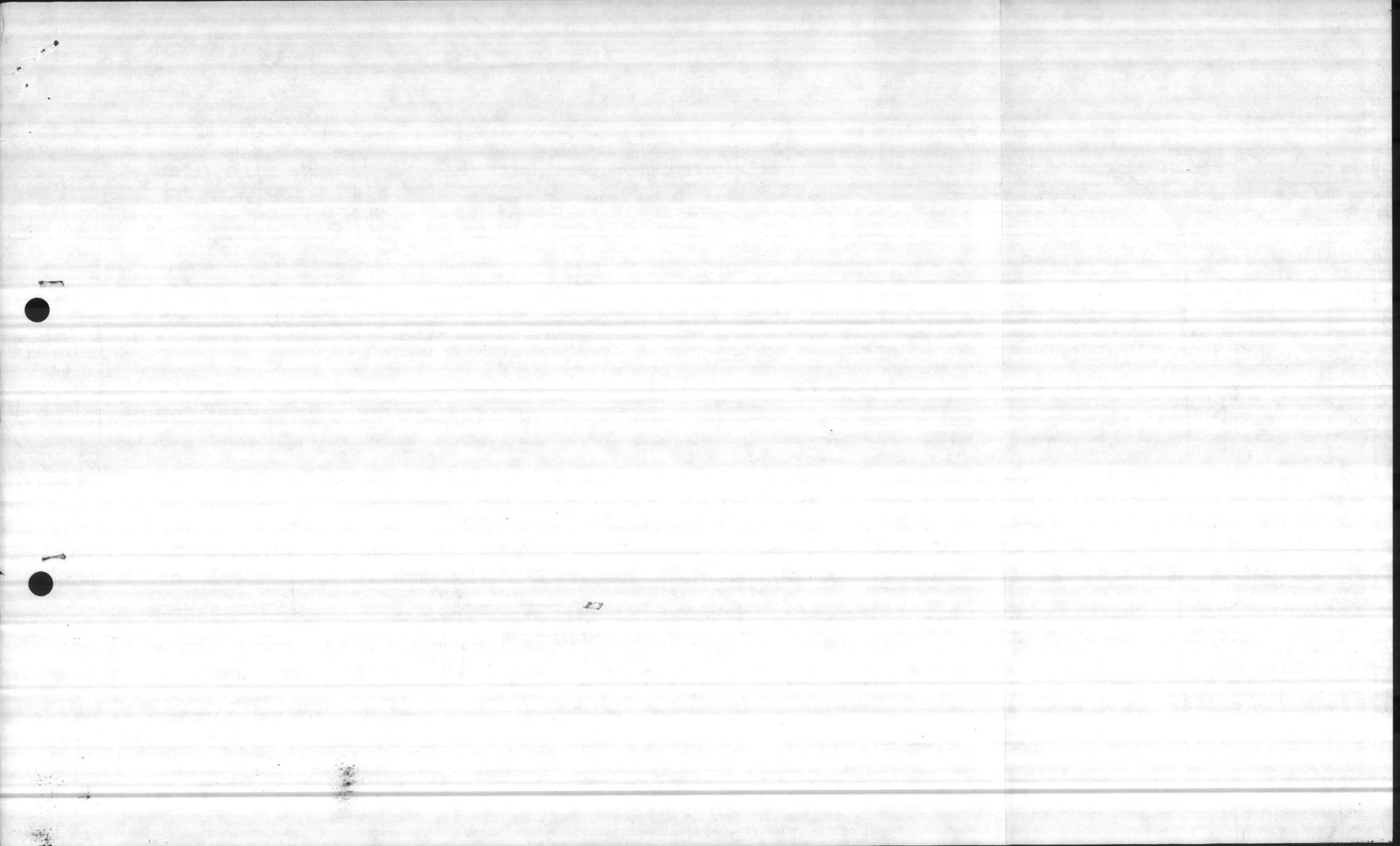
GAGE GLASS

7"

2 FT

5" TO  
HEATER  
1/2" TAP  
12"  
TRAP LINE  
1 1/2" TAP  
TRAP LINE

11 X 5'6"



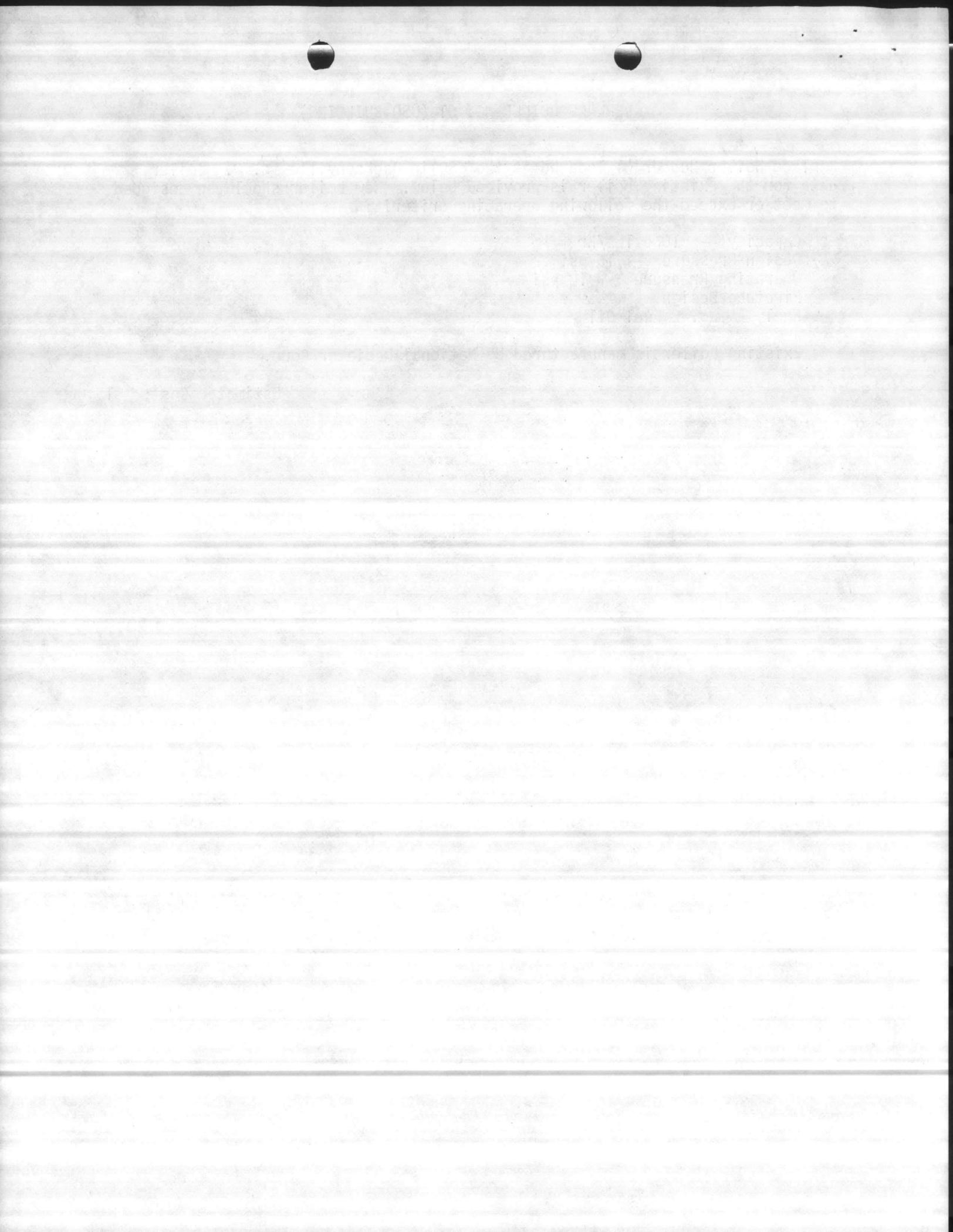
REPLACE BOILER NO. 61 (USO BUILDING)

Replace Boiler Number 61 located at the USO in Jacksonville, N. C. Boiler data for the existing boiler is provided below. New boiler should be designed to meet or exceed the following operating criteria:

Capacity - 1000 lbs/hr  
Design Pressure - 15 psi  
Operating Pressure - 10 psi  
Firetube Design  
Fuel - No. 2 Fuel Oil

Existing boiler is manufactured by National Radiator Corp.

Estimated Cost: \$15,000



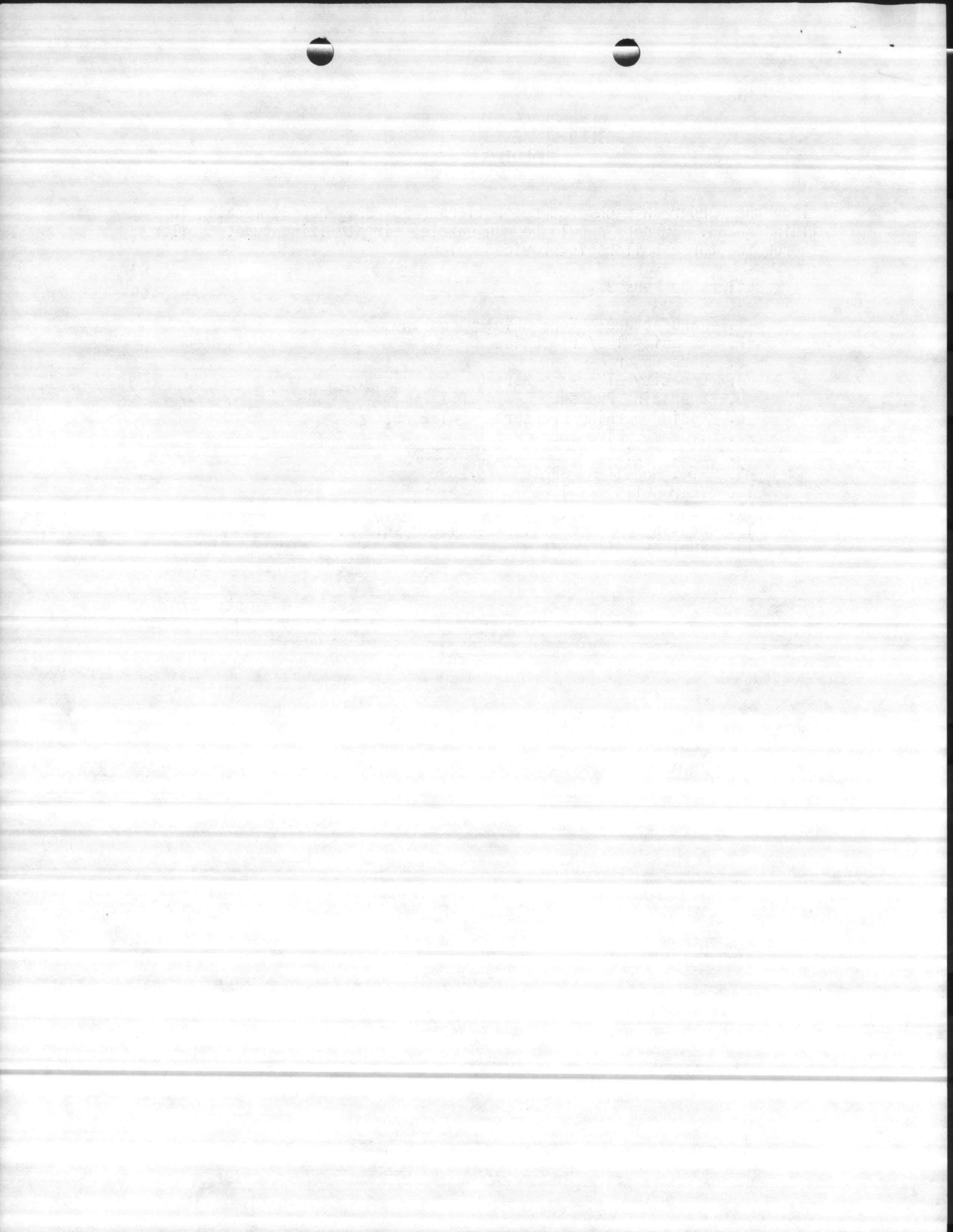
REPLACE OIL BURNERS  
BOILER NUMBERS 38, 39, and 40  
BUILDING M-230

Replace the burner on each of three boilers (#38, 39, and 40) located in Building M-230. Burners should be gun nozzle, air atomizing type. Boiler data for the three boilers is provided below:

Boilers Numbers 38, 39, and 40

1. Manufacture - York Shipley Company
2. Capacity lbs/hr - 6,486
3. Horsepower - 200
4. Capacity BTU - 9,250,000
5. Operating Pressure - 50 PSI
6. Design Working Pressure - 150 PSI
7. Type - Fire Tube
8. Mfg. Serial - 63-S242-H-30038
9. Mfg. Model - SPH188-6 97209
10. Year BUilt - 1963
11. Year Installed - 1963
12. Heating Surface Boiler - 1,254 sq. ft.
13. Fuel - Oil No. 2

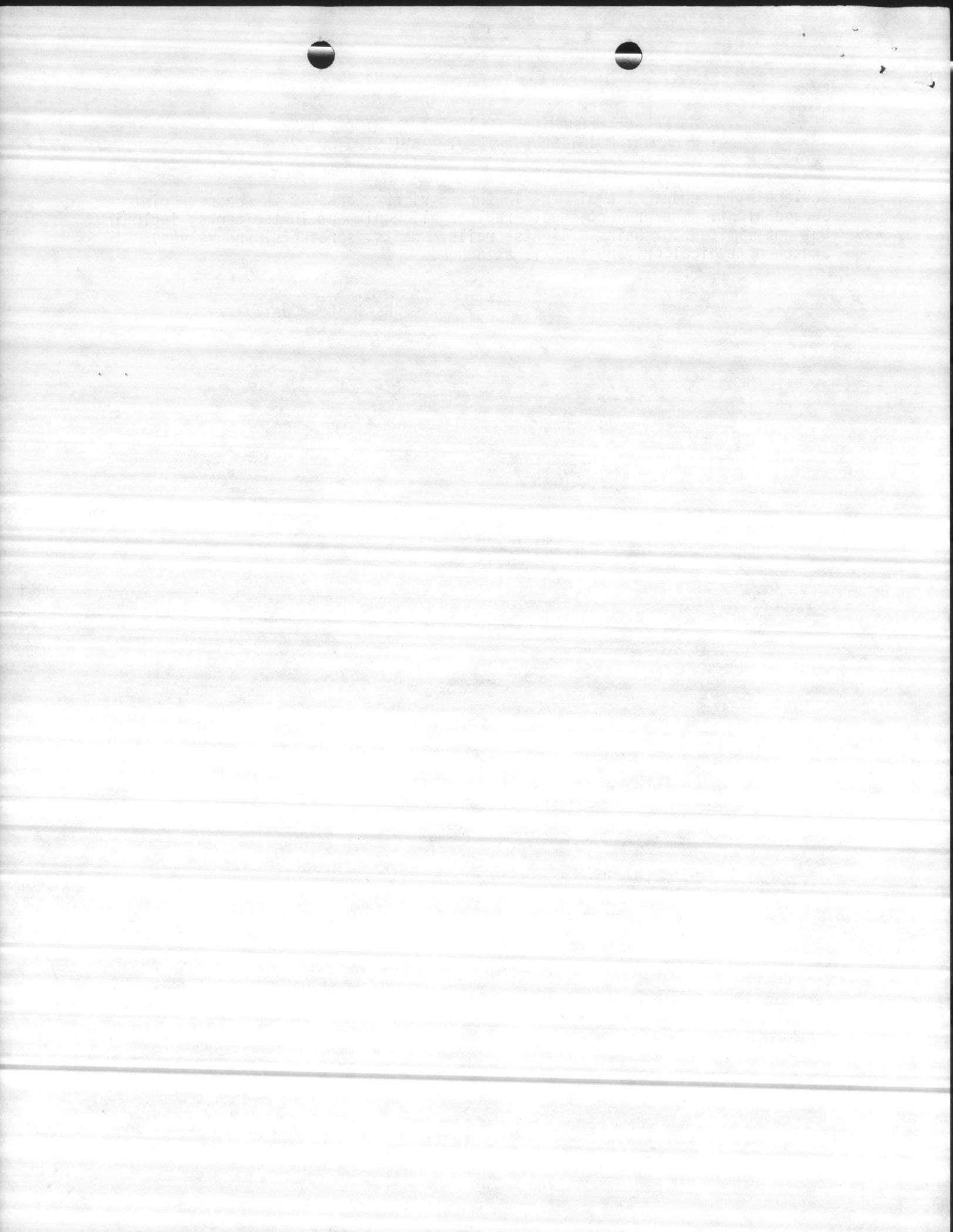
Estimated Cost: \$70,000



REPLACE MECHANICAL EQUIPMENT - PRIMARY TANKS  
HADNOT POINT SEWAGE PLANT - BUILDING HP-22

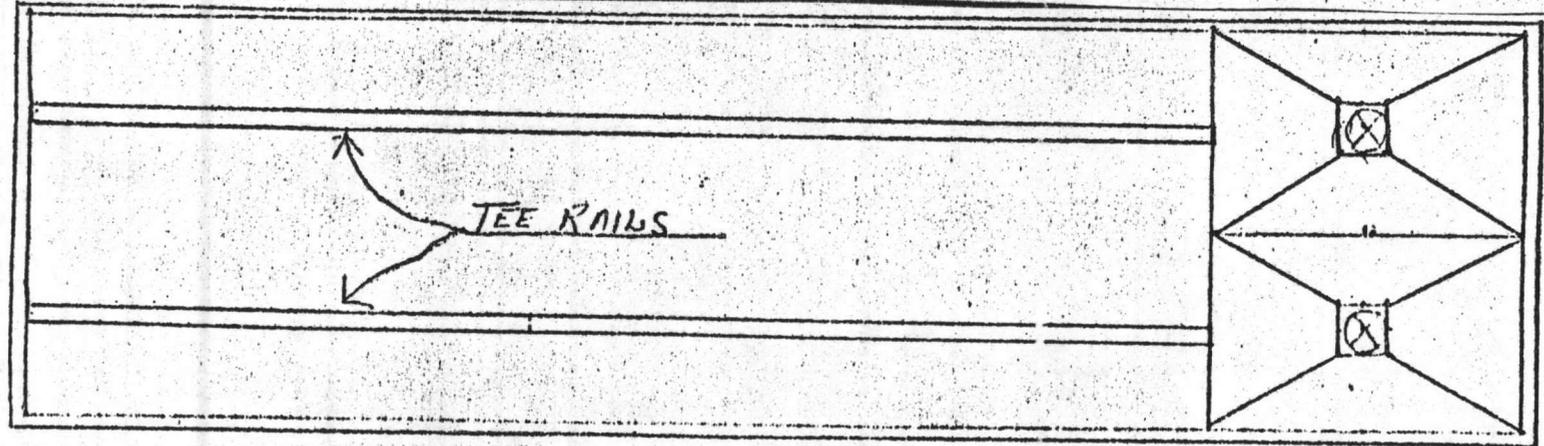
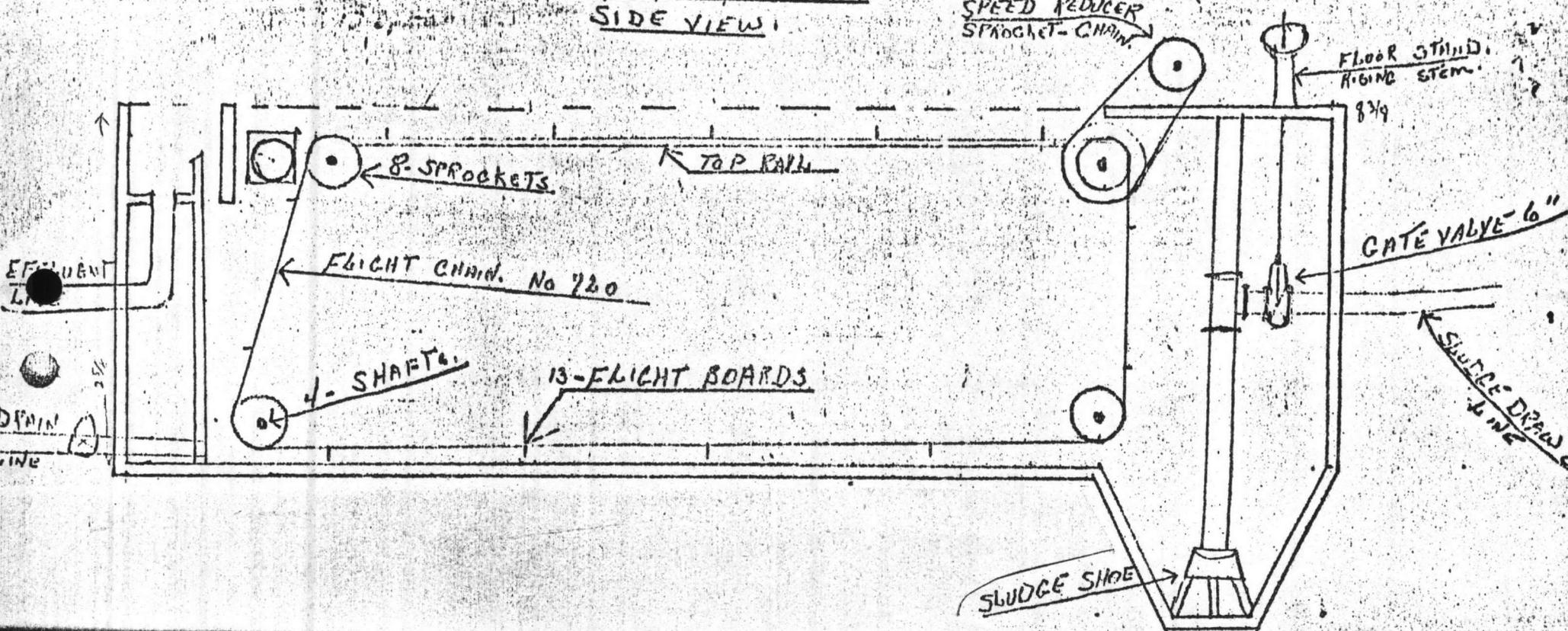
Replace all mechanical equipment in three primary tanks at the Hadnot Point Sewage Plant. The project should replace all equipment in the tanks, including, but not limited to chains, flights, rails, shafts, sprockets, and valves. Sketch of typical primary tank is attached.

Estimated Cost: \$70,000

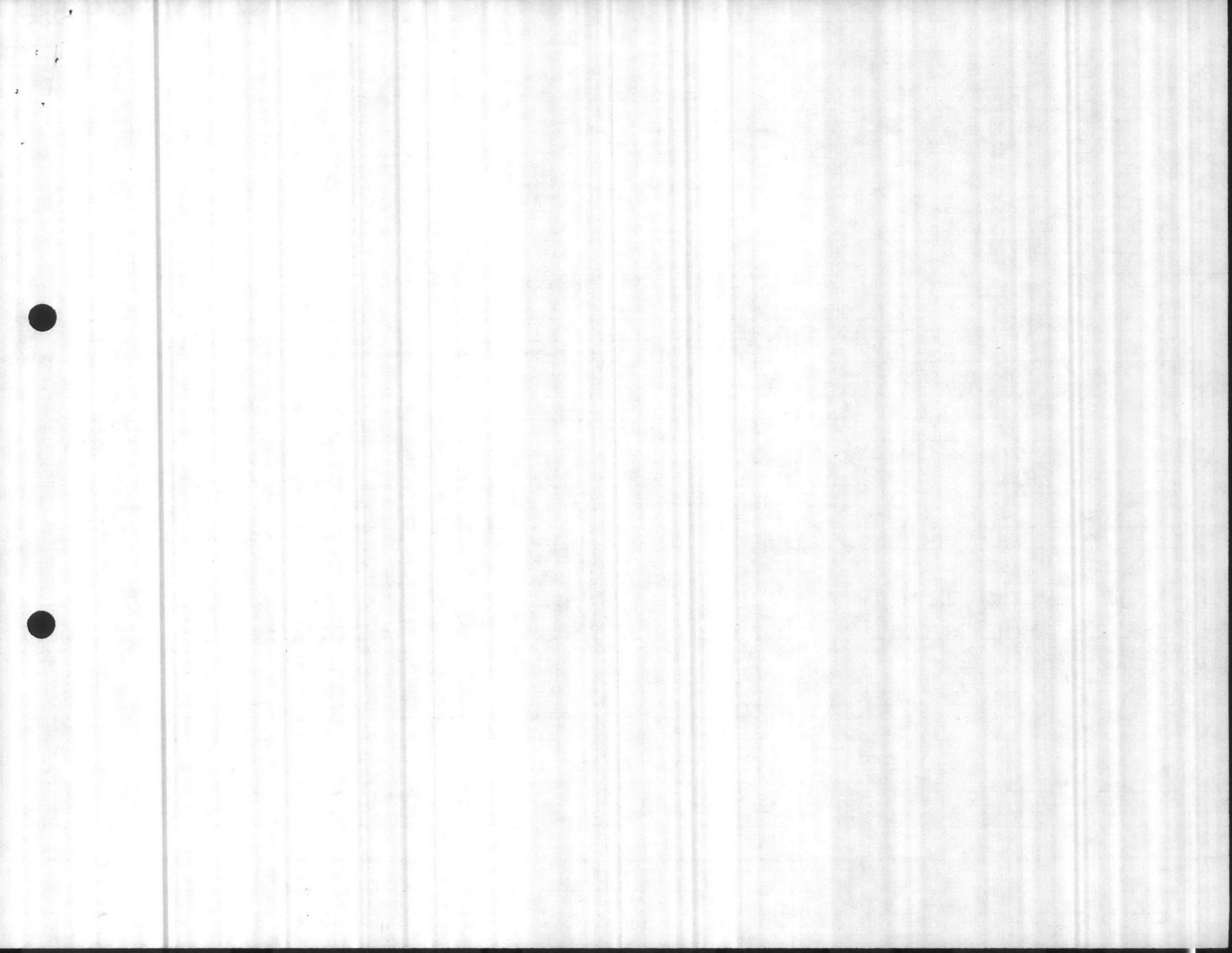


Replace Mechanical Equipment  
3 Primary Tanks, H.P-22

SIDE VIEW



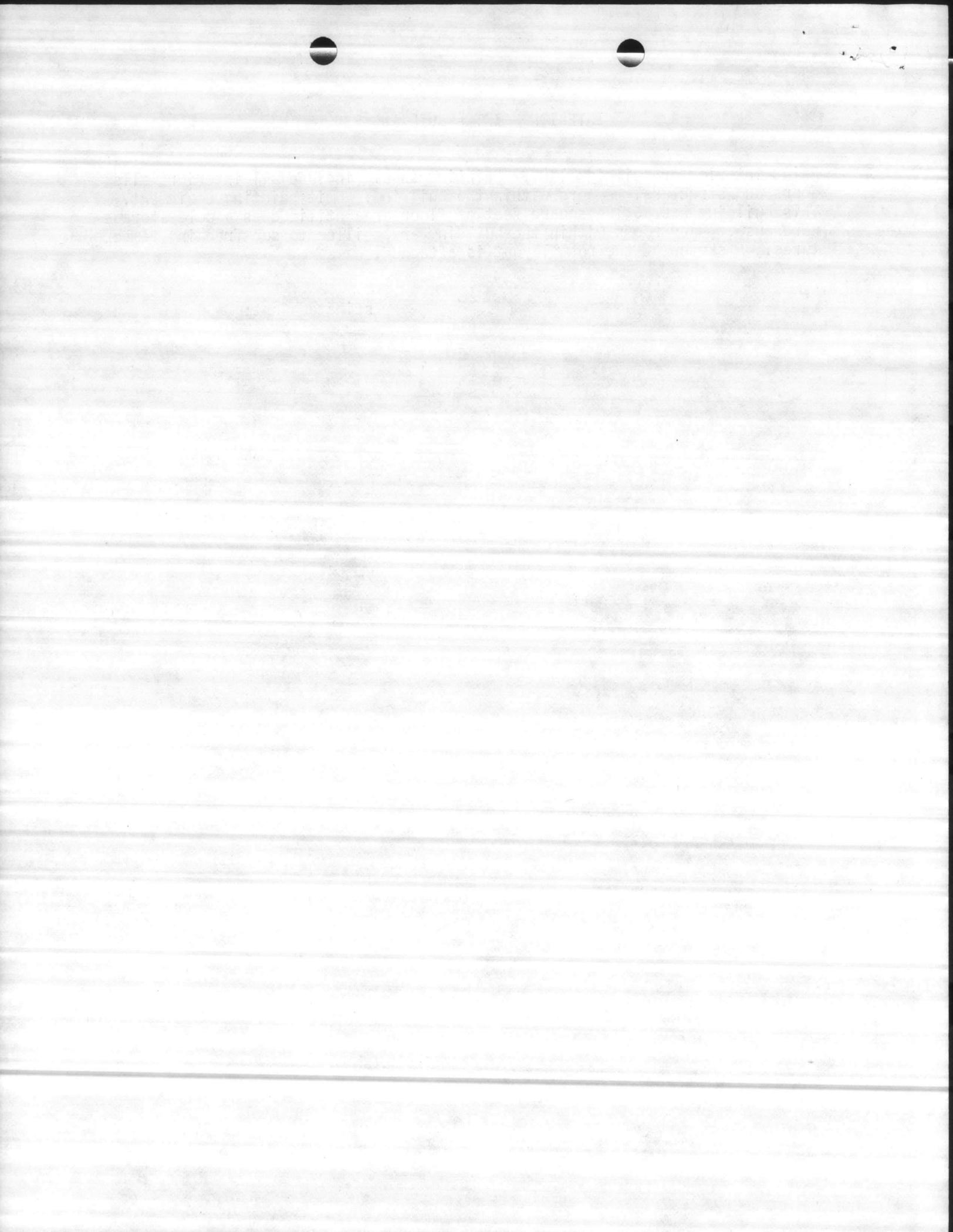
PRIMARY TANK  
BOTTOM VIEW



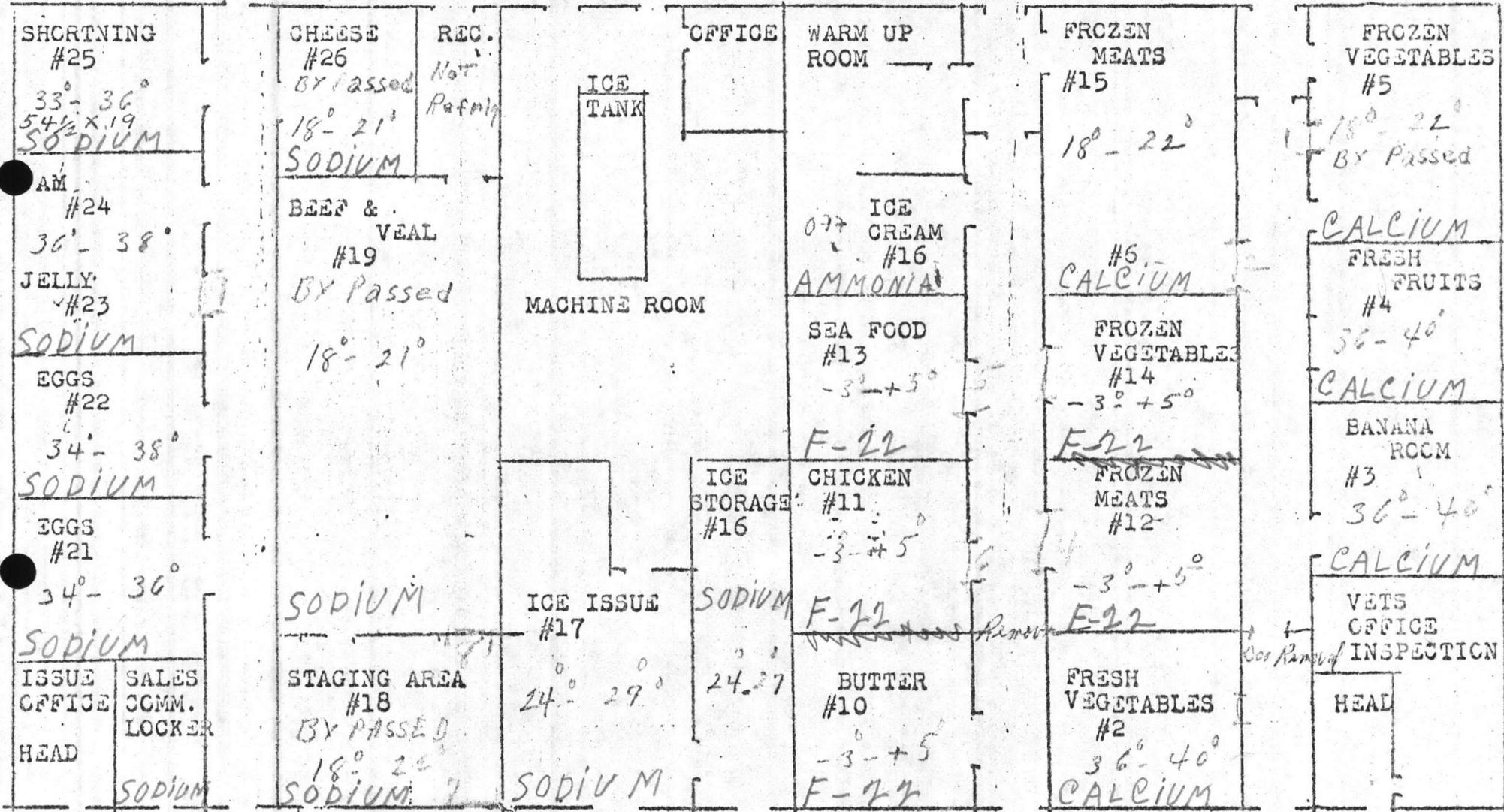
INTERIOR PAINT - BUILDING 1300

Paint interior of Building 1300. Painting should include all interior walls, doors and structural members within the building. Omit painting equipment. This building has 45,120 square feet of floor area utilized as a cold storage warehouse. Many rooms within the building are chilled to sub-freezing temperatures. A sketch of the room layout is attached.

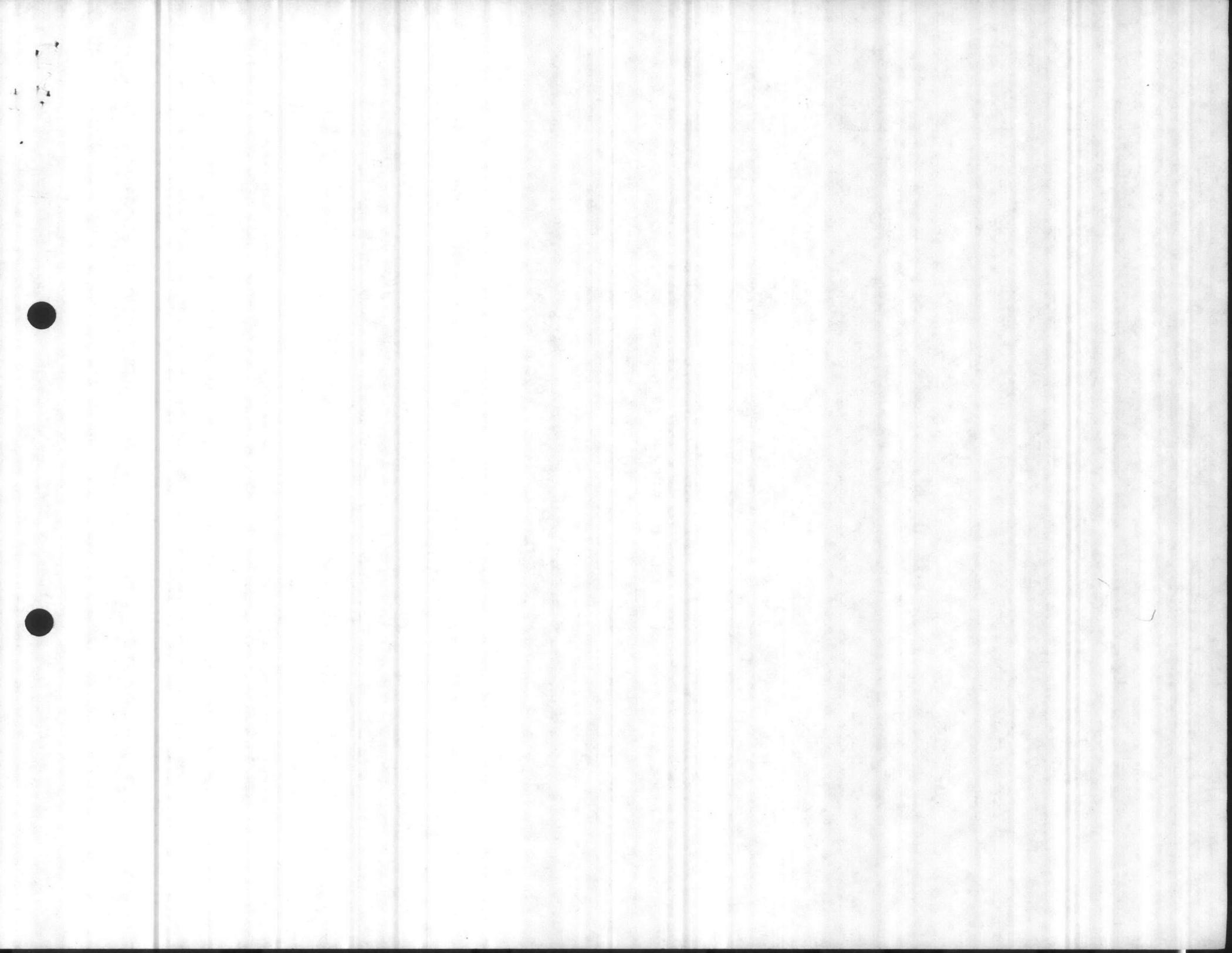
Estimated Cost: \$30,000



EAST SIDE



WEST SIDE



T-11300

MAIN/FEC/rn  
11300  
6 Apr 1982

From: Director, Utilities Branch  
To: Director, Operations Branch

Subj: Additional contract requirements

Encl: (1) List of Additional contract requirements

1. It is requested that the projects listed in the enclosure be forwarded to Public Works for development of plans and specifications.

F. E. CONE

Copy to:  
81

All work on this letter  
to be accomplished as M-2 projects  
1700 - 157,000  
G-650 - \$77,000  
m-625 - \$87,000

ACTIVITY  
11:01  
2/11/88

From: Director, Wildlife Branch  
To: Director, Fisheries Branch

Subject: Additional contract requirements

Enc. (1) - List of additional contract requirements

It is requested that the projects listed in the enclosure be referred to public works for development of plans and specifications.

R. T. COLE

Doc. 70  
11

Item 6:

Project is located at M-625 Heating Plant. Project is to provide and replace steam flow and header pressure meters, orifices and piping for three boilers.

Justification: Meters are worn and obsolete with no repair parts available. Correct flow measurement is necessary to determine evaporation and correct loading of boilers and systems.

Estimated Cost: \$32,000

Item 7:

Project is located at M-625 Heating Plant. Project is to replace deteriorated boiler refractory and insulation.

Justification: Boiler refractory and insulation have deteriorated to the extent that desired boiler efficiency cannot be obtained.

Estimated Cost: \$25,000

Item 8:

Project is located at Building 1700 Heating Plant. Project is to repair or replace deteriorated steel window frames, closures, and seal cracks.

Justification: The existing steel windows have deteriorated from the environment of coal dust and boiler flue gas. The grouting has fell out from under windows due to the vibration of the plant.

Estimated Cost: \$20,000

Item 9:

*Cancel*

Project is located at Building 1700 Heating Plant. Project is to sandblast, prime and paint one 175,000-gallon oil tank. *S-1735*

Justification: Oil tank is rusted from soot and flue gas environment of the boiler plant. If not corrected at this point, could lead to extensive pitting of the oil tank.

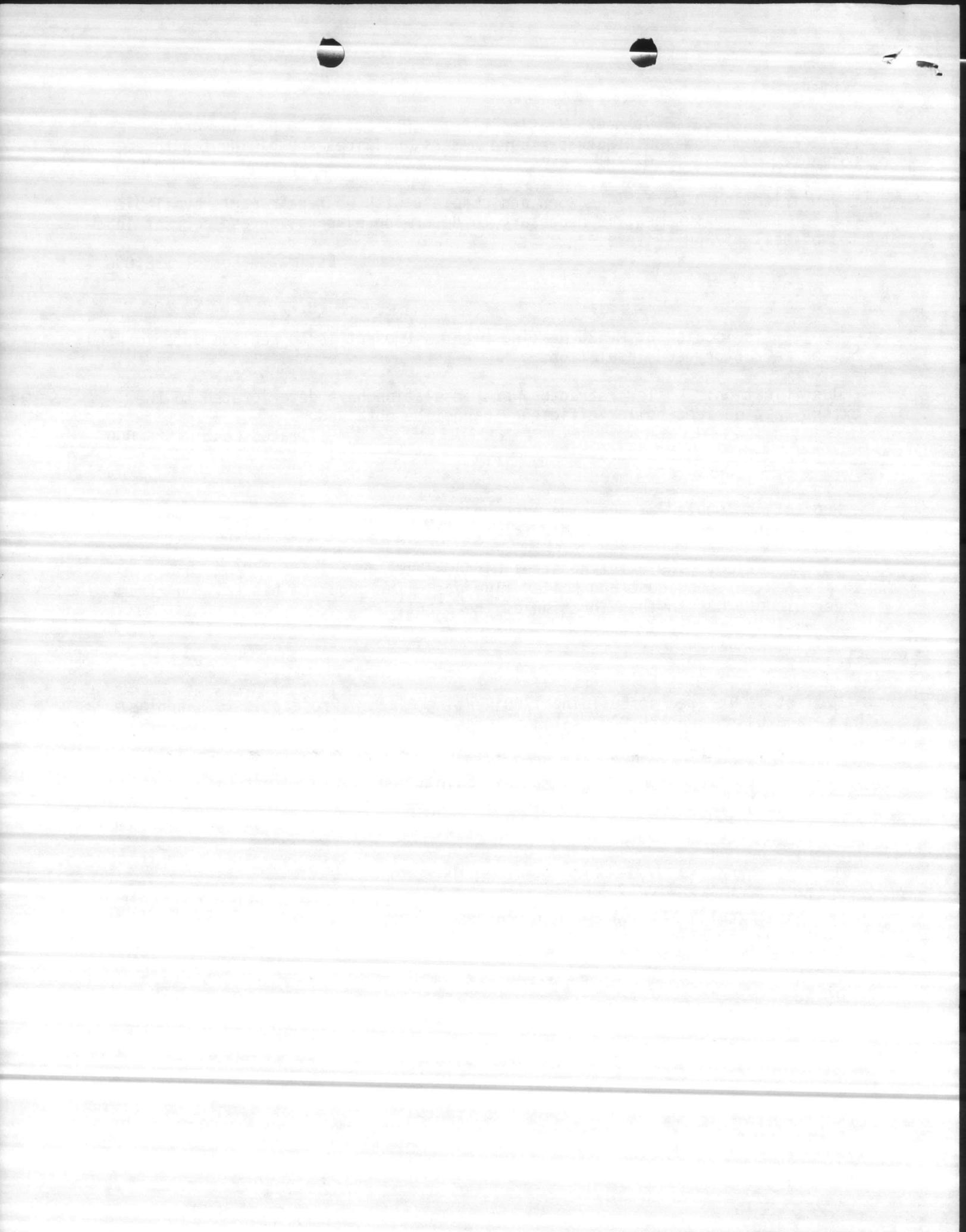
Estimated Cost: \$12,000

Item 10:

Project is located at M-625 Heating Plant. Project is to provide and replace duplex oil pumping station and oil heaters.

Justification: Existing oil pumping station will not deliver capacity necessary to operate at maximum capacity. Pumps are obsolete and worn with no repair parts available.

Estimated Cost: \$30,000



Item 1:

Project is located at Building 1700 Heating Plant. Project is to provide and replace blowdown lines on five boilers from the blowdown valves to and including the blowdown tank and tank vent line.

Justification: Lines and tank have been patched, have thin spots, and have deteriorated beyond repair.

Estimated Cost: \$40,000

Item 2:

Project is located at Building 1700 Heating Plant. Project is to provide and replace flash tank and heat exchange to include piping.

Justification: Flash tank, heat exchanger and piping has deteriorated beyond repair. Has been patched numerous times in the past.

Estimated Cost: \$35,000

Item 3:

Project is located at G-650 Heating Plant. Project is to provide and install pneumatic controls and positioners on three boilers.

Justification: Controls and positioners are worn out with no repair parts available. Due to this problem boiler efficiency has decreased.

Estimated Cost: \$45,000

Item 4:

Project is located at Building 1700 Heating Plant. Project is to provide and replace insulation on five boilers, all auxiliary equipment, and all steam and water lines.

Justification: Insulation has cracks, holes, etc. from deterioration and necessary maintenance removal. Complete and proper insulation is necessary to prevent heat loss for better efficiency and prevent safety hazards. Loose or ragged insulation creates dust and hazardous environment for plant personnel.

Estimated Cost: \$49,000

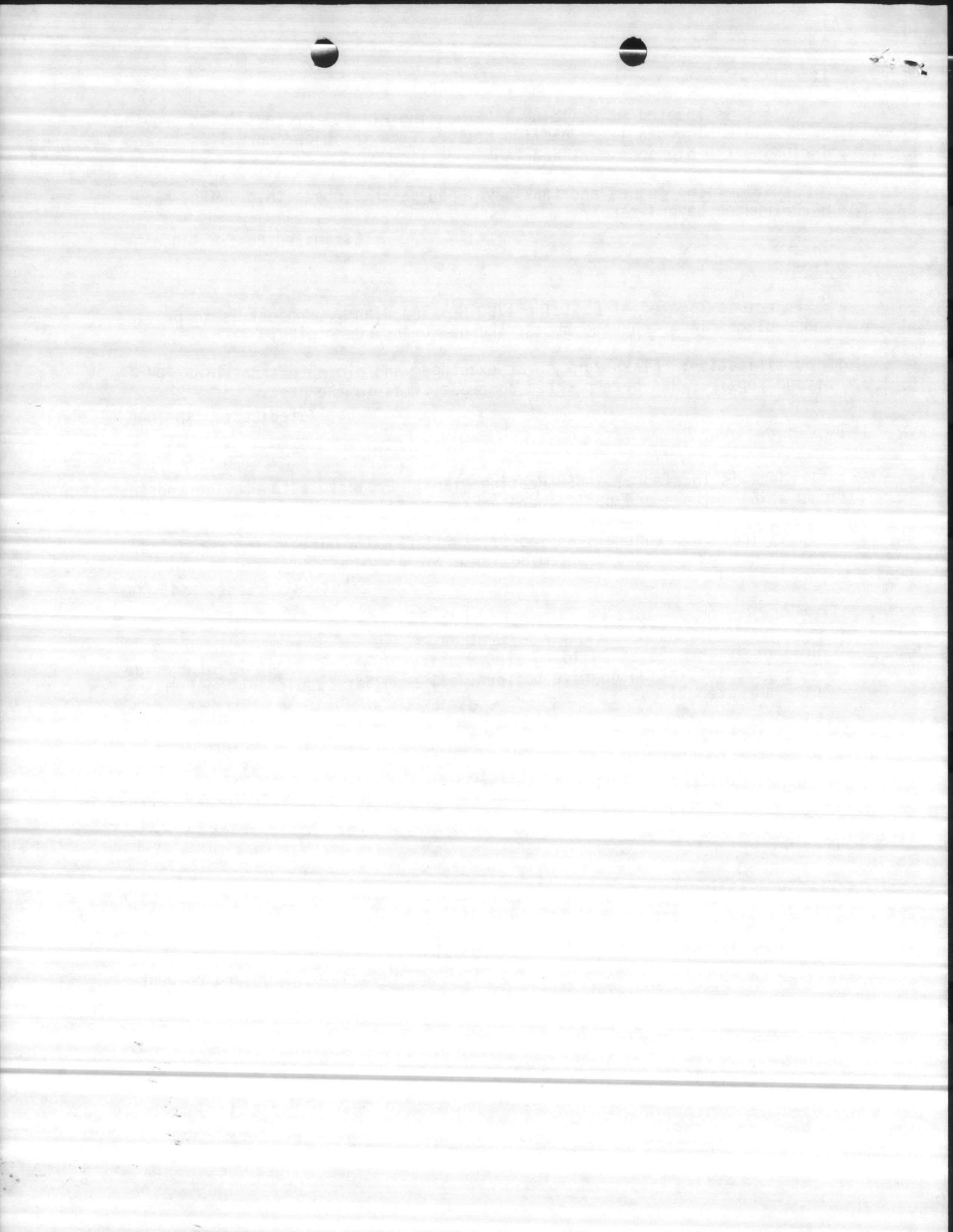
Item 5:

Project is located at G-650 Heating Plant. Project is to provide and replace four steam flow meters, orifices, and piping.

Justification: Meters are worn and obsolete with no repair parts available. Correct flow measurement is necessary to determine evaporation and correct loading of boilers and systems.

Estimated Cost: \$32,000

Enclosure (1)



MAIN/CL/dkm  
4330  
10 February 1982

From: Base Maintenance Officer  
To: Public Works Officer

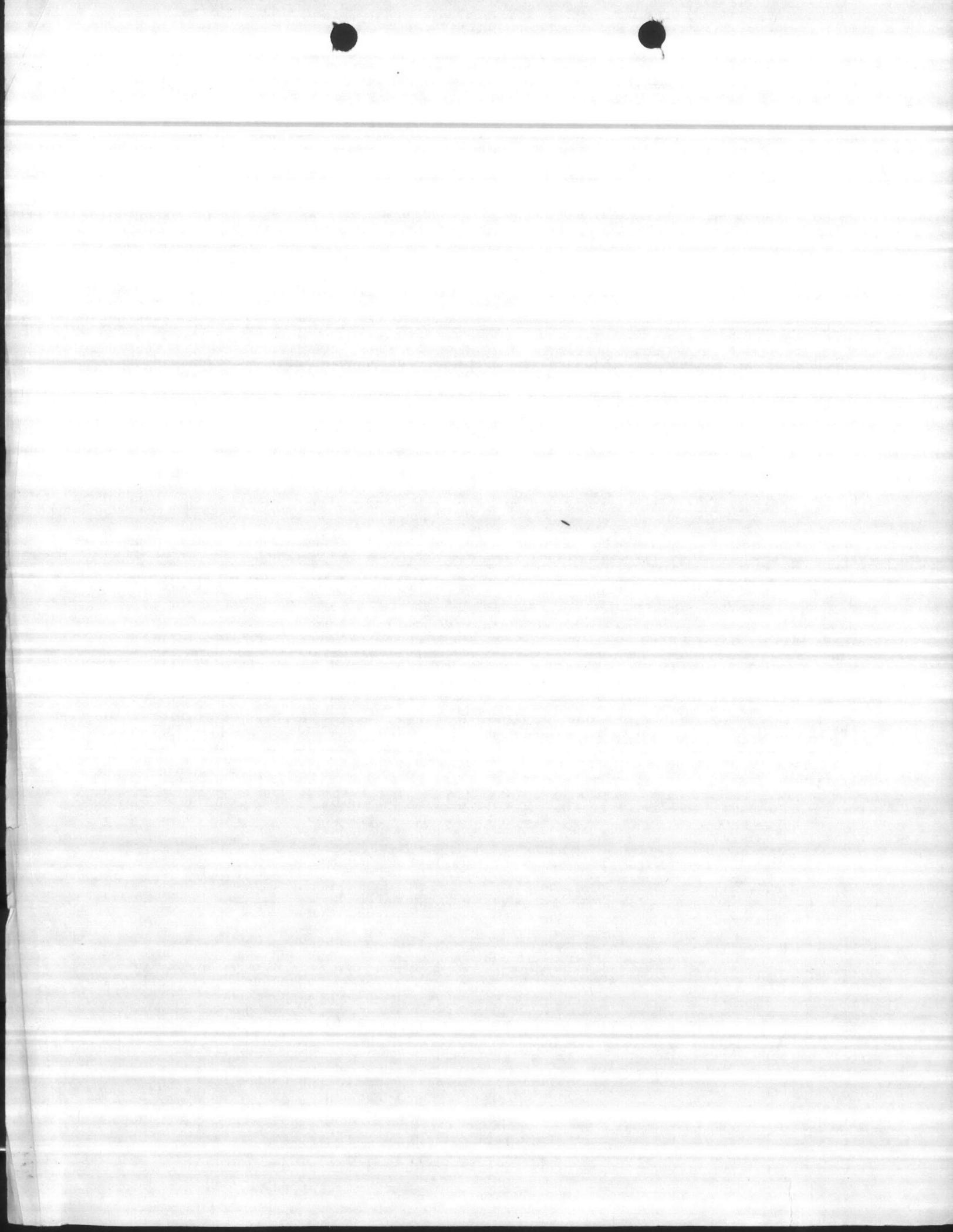
Subj: File Numbers; assignment of

Ref: (a) BMO ltr MAIN/RMD/dmm 4330 of 9 February 1982

1. Reference (a) requested A & E design contracts for maintenance and repair projects. The below listed file numbers are assigned to the subject projects.

| <u>Description</u>   | <u>File No.</u> |
|--|-----------------|
| Repairs to Central Heating Plant, Building 1700  | 2C54 DELETE     |
| ✓ Replace Lighting, Heating Plants <sup>1700</sup> M625, BB-9, RR-15<br><sub>6600</sub><br><sub>M625</sub> and PP-2615 | 2C55            |
| Replace Steam Meters and Pneumatic Controls G-650<br>and M-625   | 2C56 DEL        |
| - Miscellaneous Repairs to Heating Plants RR-15, BB-9,<br>BA-106, M-230 and M-625                                      | 2C57            |
| Structural Repairs to Heating Plants, Buildings 1700<br>and G-650  | 2C58 DEL        |
| Replace Pump Control Cable, Building AS-110  | 2C59            |
| ✓ Replace Auxilliary Engines, Buildings 20, 603, 613 and<br>BA-138   | 2C60            |
| Replace Windows, Building 20   | 2C61            |
| Chemical Cleaning Water Lines, Buildings 670, 20 and<br>TT-38  | 2C62            |
| Repairs to Water Distribution Lines, MCAS(H), New River  | 2C63            |
| ✓ Seal and Paint Walls, Building 670   | 2C64            |
| Repairs to Oil Pumping Station M-625, M-230, BB-9, RR-15<br>and PP-2615  | 2C65            |

R. M. DILLON  
By direction



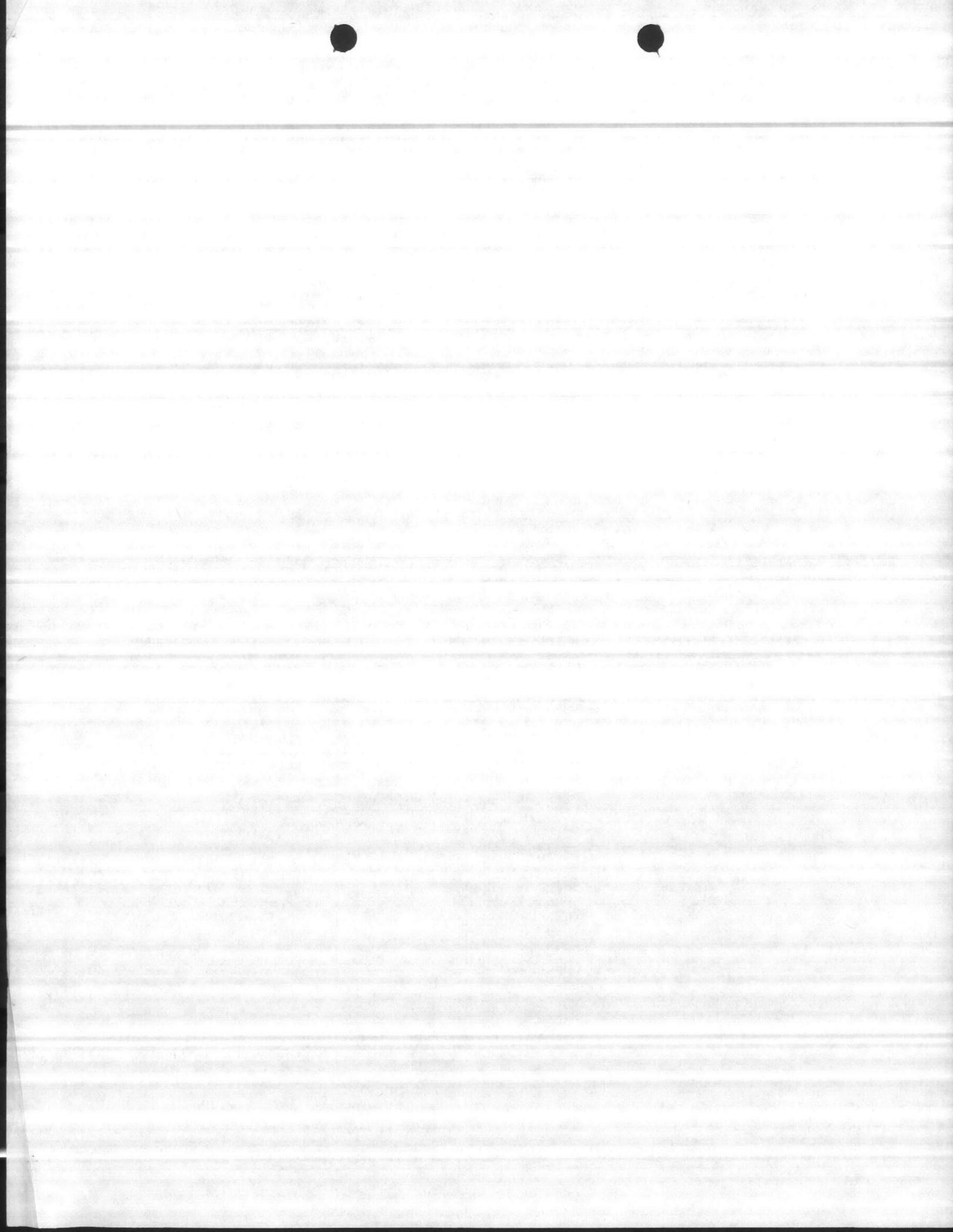
*07/1/51*

REPLACE PUMP CONTROL CABLE, BUILDING AS-110

Procure contract to replace the pump control cable from Building AS-110 to the Camp Geiger wells and pumping station, consisting of approximately ½ mile of pair cable and 2½ miles of 37 pair cables. These wires have been cut and repaired several times allowing water to enter cable and causing cable to corrode and short out. This cable should be replaced with a nineteen gage outside industrial control type cable.

Total Est. Cost: \$30,000

*Misc Repair Contract*

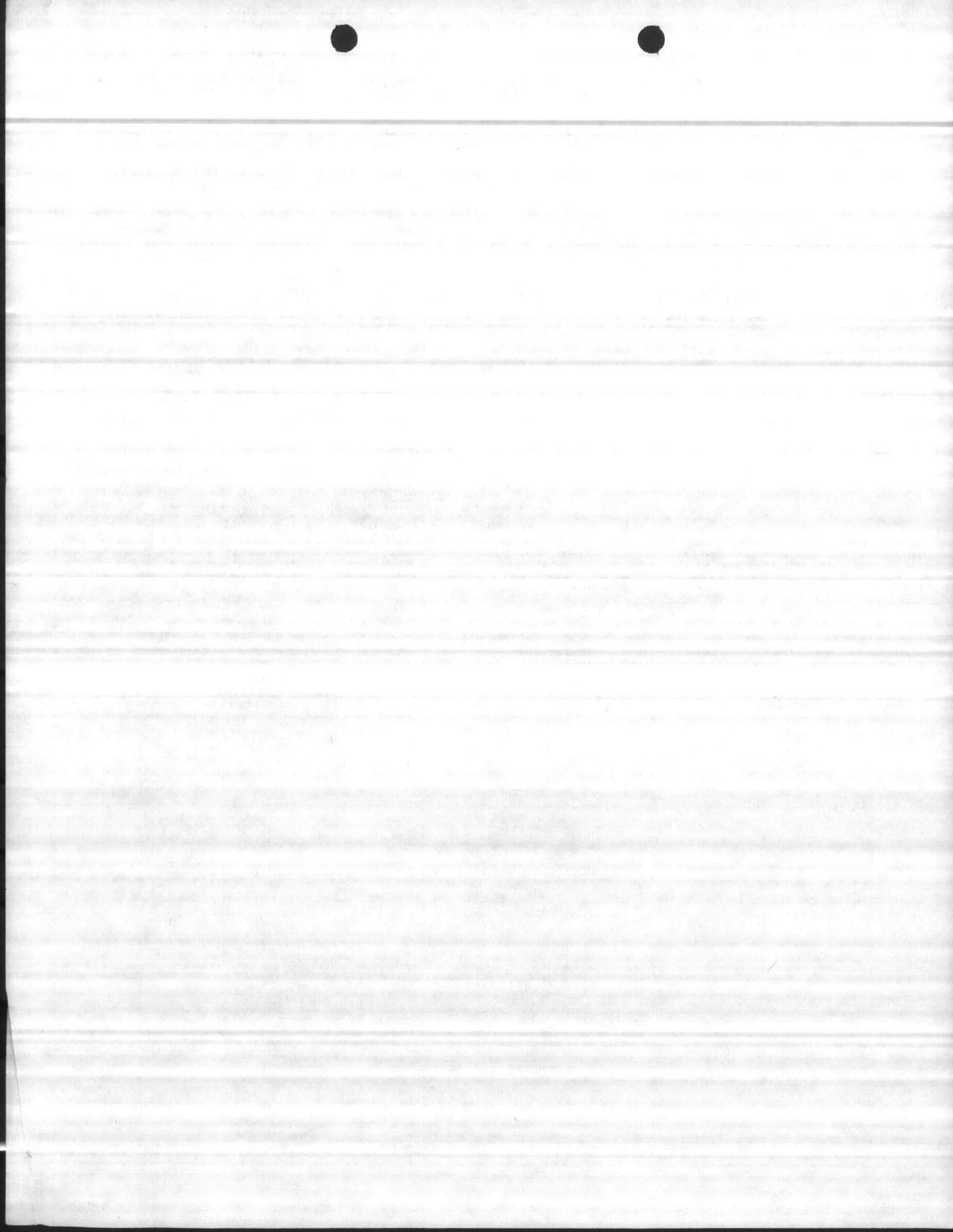


REPLACE AUXILIARY ENGINES, BUILDINGS 20, 603, 613, BA-138

Procure contract to replace the auxiliary gasoline generators that have worn out in service at Buildings 20 (two), 603 (one), 613 (one), and BA-138 (one). These engines are old and worn out and are not dependable for carrying the load during power failures. These engines should be replaced with a diesel engine with equal horsepower.

Total Est. Cost: \$50,000

*Misc Repair Contract*

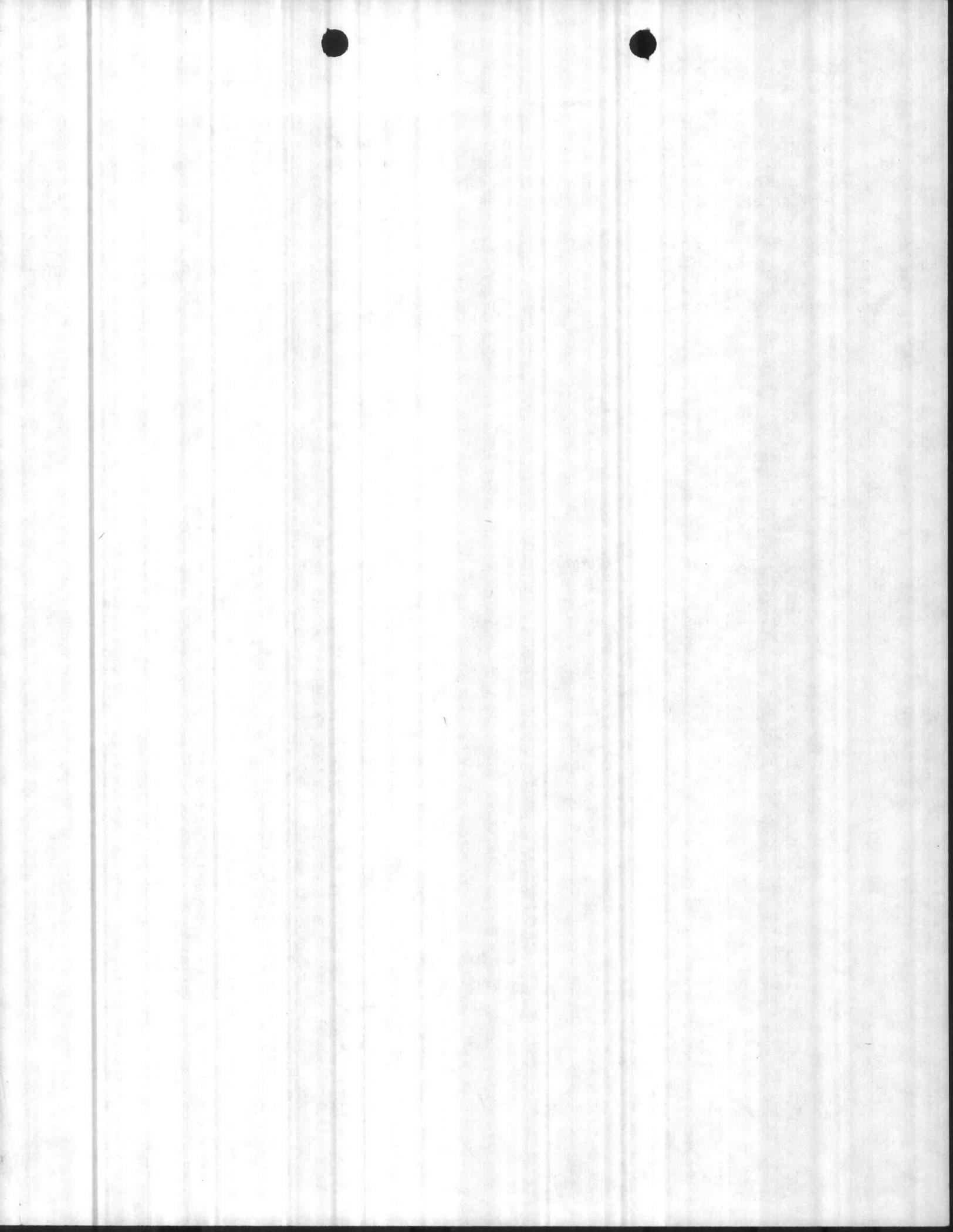


REPLACE WINDOWS, BUILDING 20

Procure contract to repair or replace 64 metal windows in Building 20 with an average size of 28"x82". These windows have been repaired many times by Base Maintenance. The windows are warped, and many of them cannot be closed. Replacement should be an aluminum type.

Total Est. Cost: \$35,000

*Misc. Repair Contract*

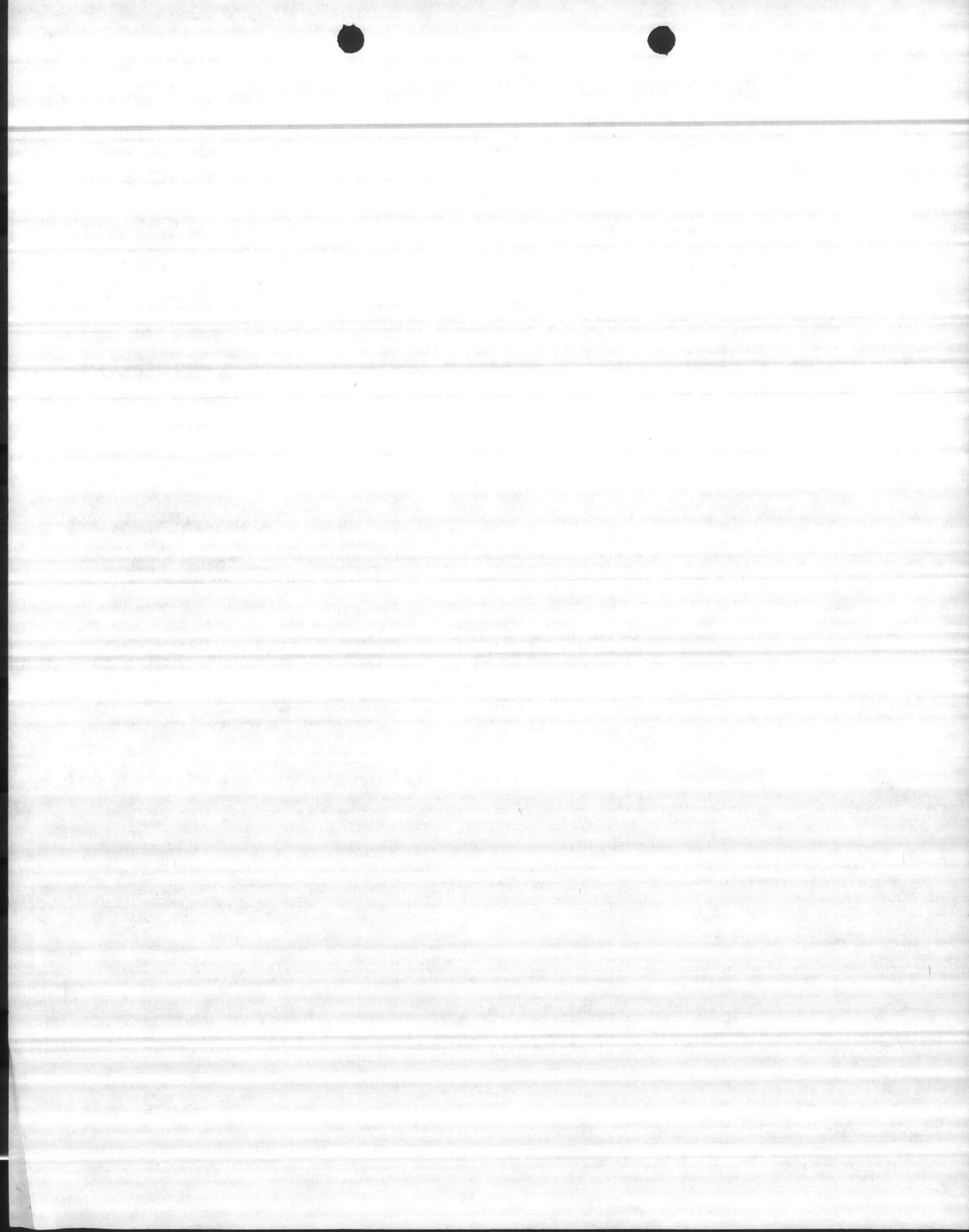


CHEMICAL CLEANING WATER LINES, BUILDINGS 670, 20, TT-38

Procure contract to chemically clean the treatment lines from spiractor to filters and floor drain from lime mixing room to manhole outside of building at Buildings 670, 20, and TT-38. These lines have a thick deposit of calcium carbonate which is greatly reducing the treatment capacity.

Total Est. Cost: \$15,000

*20 + TT-38 included on misc Repair Contract*



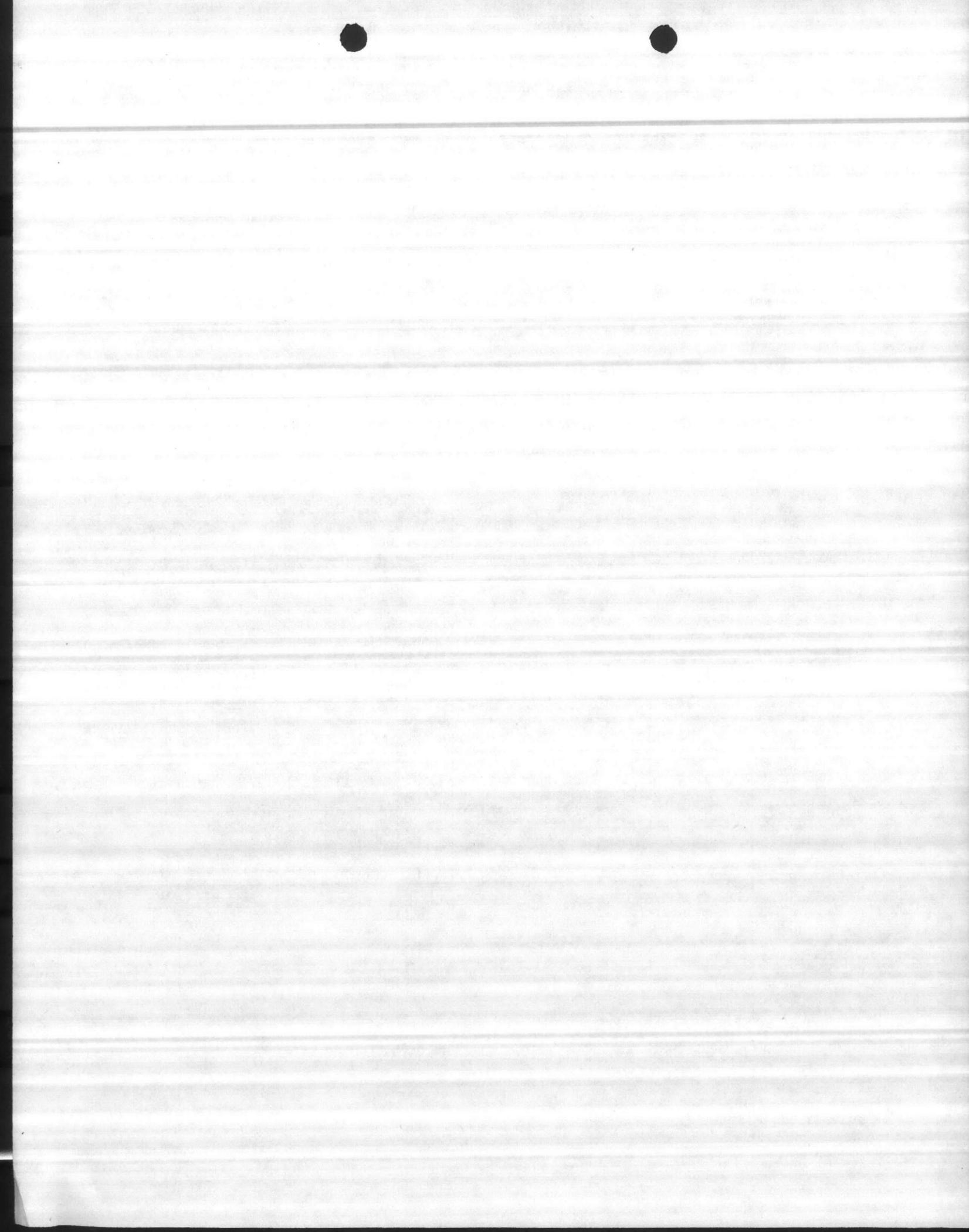
REPAIRS TO WATER DISTRIBUTION LINES, MCAS(H), NEW RIVER

Misc Repair  
Contract

Procure contract to clean calcium carbonate deposit from all six, eight, and ten inch water distribution mains in the Marine Corps Air Station area. Over a period of year the calcium carbonate deposits have greatly reduced the line capacity and should be mechanically cleaned by a qualified contractor.

Total Est. Cost: \$25,000

NO HIGH PRESSURE  
CLEANING

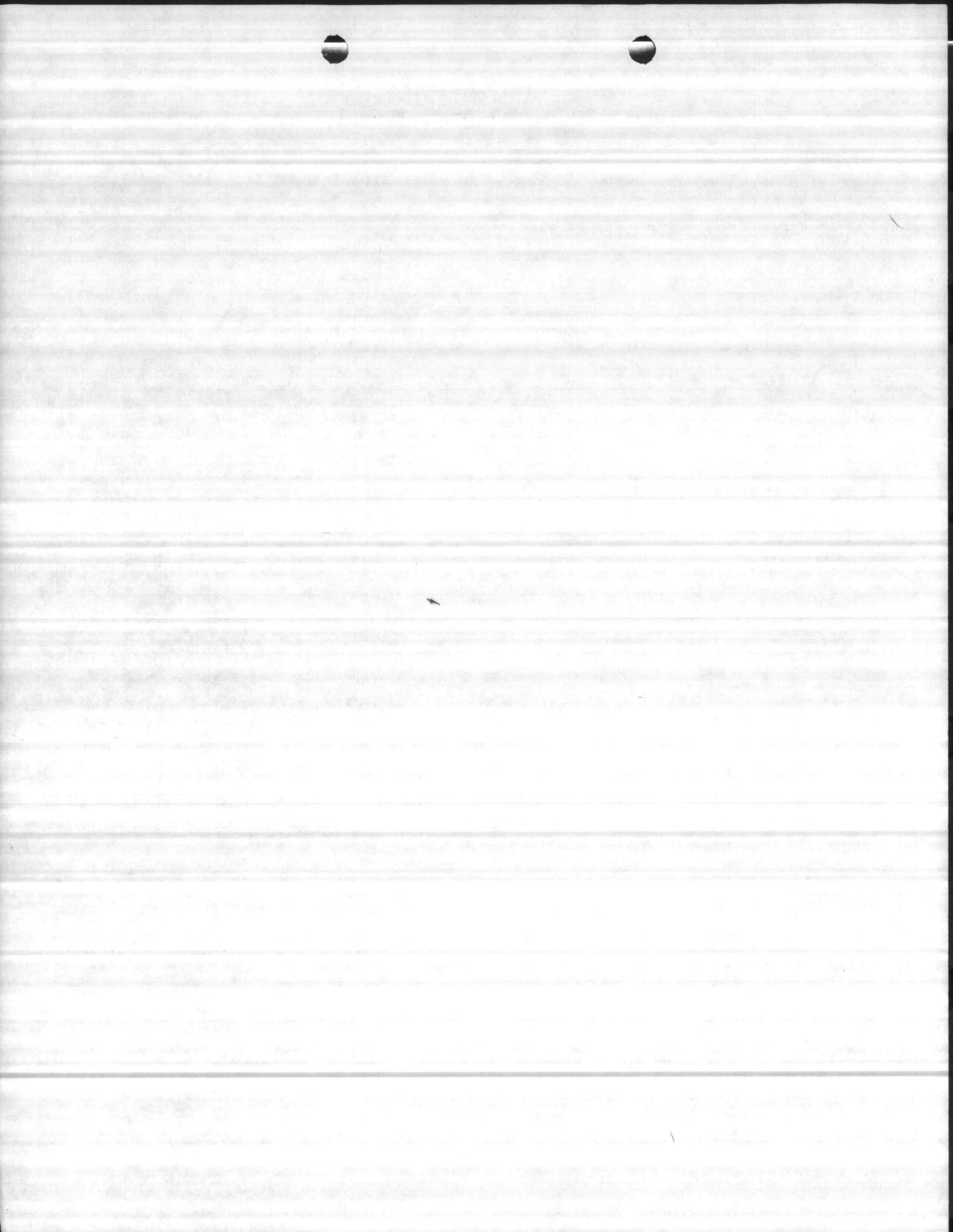


SEAL AND PAINT WALLS, BUILDING 670

Procure contract to seal concrete filter walls to eliminate existing leaks, and paint filter walls and interior building walls; two coats on filter walls, one coat on building walls.

Total Est. Cost: \$15,000

*Cancel*



Util's file

REPLACE LIGHTING, HEATING PLANTS  
M-625, BB-9, RR-15, PP-2615

Item 1:

2. Project is located at M-625 Heating Plant. Project is to replace existing plant lighting with fluorescent lights.

Justification: Existing lights are not adequate for safe operation of boilers.

Estimated Cost: \$25,000

Item 2:

2655 Project is located at BB-9 Heating Plant. Project is to replace existing plant lighting with fluorescent lights.

Justification: Existing lights are not adequate for safe operation of boilers.

Estimated Cost: \$10,000

Item 3:

2657 Project is located at RR-15 Heating Plant. Project is to replace existing plant lighting with fluorescent lights.

Justification: Existing lights are not adequate for safe operation of boilers.

Estimated Cost: \$10,000

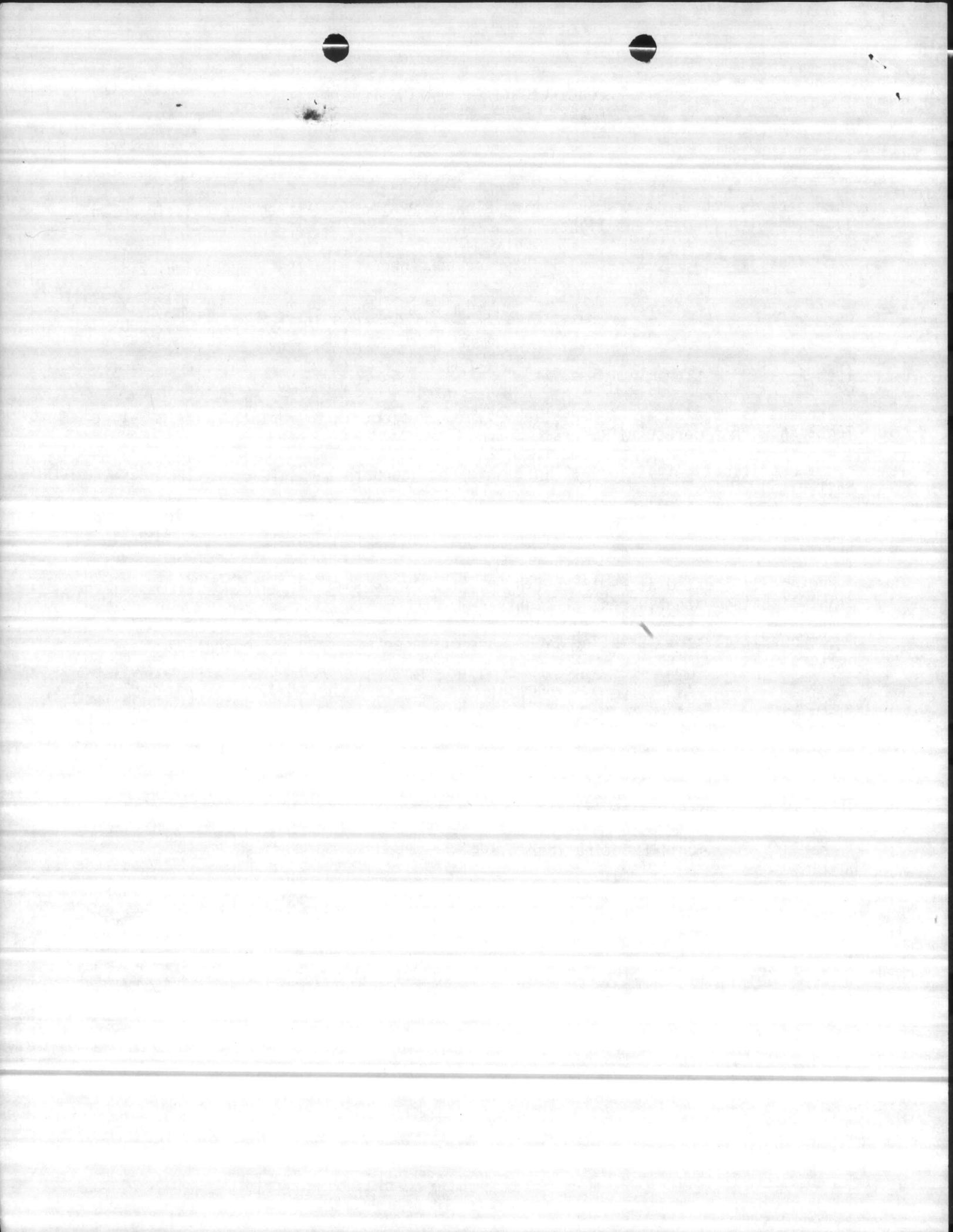
2656 Item 4:

Project is located at PP-2615 Heating Plant. Project is to replace existing plant lighting with fluorescent lights.

Justification: Existing lights are not adequate for safe operation of boilers.

Estimated Cost: \$10,000

Total Estimated Cost: \$55,000



REPLACE STEAM METERS AND PNEUMATIC CONTROLS  
G-650, M-625

Item 1:

M-2  
Project is located at G-650 Heating Plant. Project is to provide and replace four steam flow meters, orifices, and piping.

Justification: Meters are worn and obsolete with no repair parts available. Correct flow measurement is necessary to determine evaporation and correct loading of boilers and systems.

Estimated Cost: \$32,000

Item 2:

M-2  
Project is located at M-625 Heating Plant, Project is to provide and replacing steam flow and header pressure meters, orifices and piping for three boilers.

Justification: Meters are worn and obsolete with no repair parts available. Correct flow measurement is necessary to determine evaporation and correct loading of boilers and systems.

Estimated Cost: \$32,000

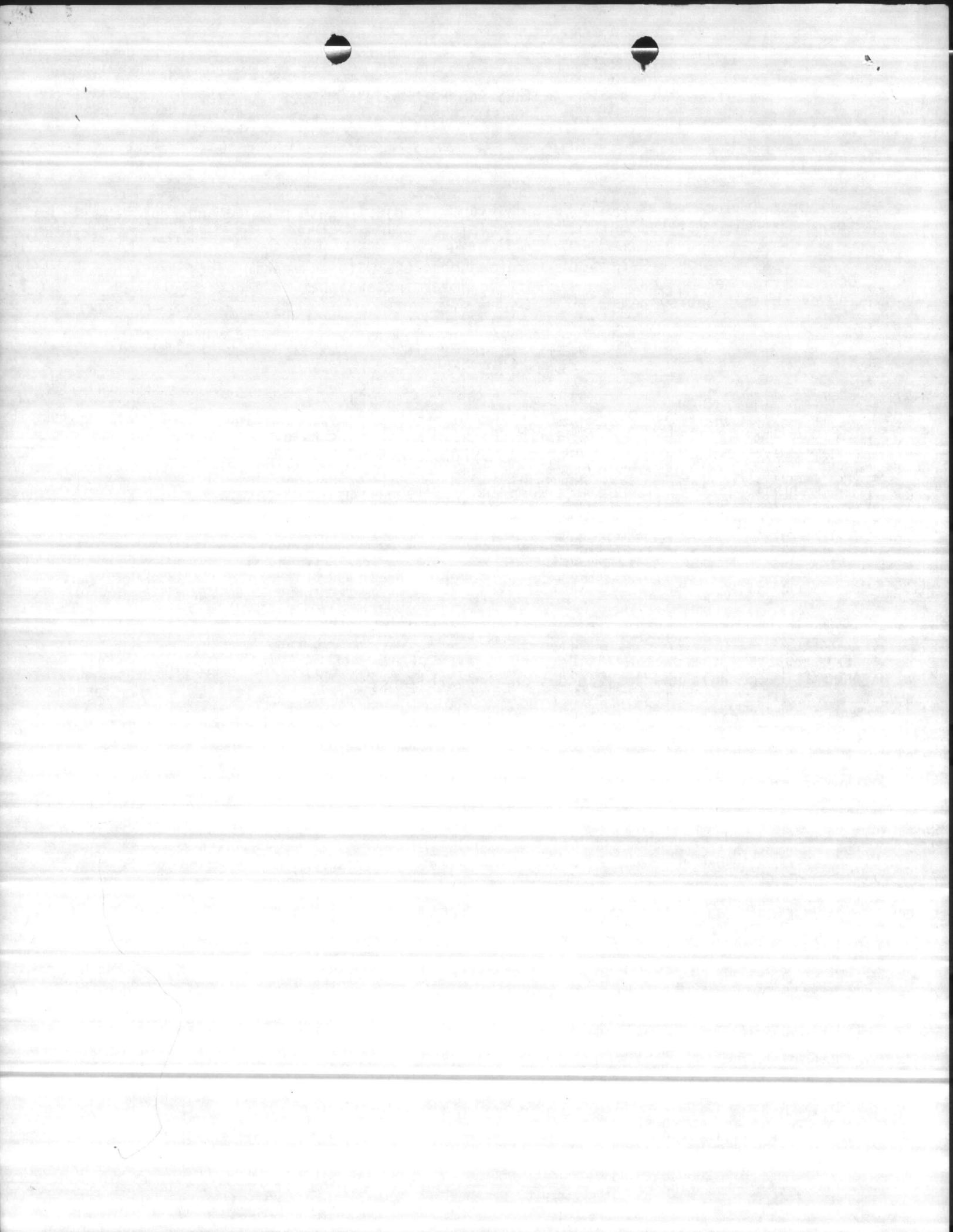
Item 3:

M-2  
Project is located at G-650 Heating Plant. Project is to provide and install pneumatic controls and positioners on three boilers.

Justification: Controls and positioners are worn out with no repair parts available. Due to this problem boiler efficiency has decreased.

Estimated Cost: \$45,000

Total Estimated Cost: \$109,000



REPAIRS TO CENTRAL HEATING PLANT, BUILDING 1700

Item 1: Cancel To be Accomplished IN-HOUSE

Project is located at Building 1700 Heating Plant. Project is to provide and replace insulation on five boilers, all auxiliary equipment, and all steam and water lines.

Justification: Insulation has cracks, holes, etc. from deterioration and necessary maintenance removal. Complete and proper insulation is necessary to prevent heat loss for better efficiency and prevent safety hazards. Loose or ragged insulation creates dust and hazardous environment for plant personnel.

Estimated Cost: \$49,000

Item 2:

M-2  
Project is located at Building 1700 Heating Plant. Project is to provide and replace blowdown lines on five boilers from the blowdown valves to and including the blowdown tank and tank vent line.

Justification: Lines and tank have been patched, have thin spots, and have deteriorated beyond repair.

Estimated Cost: \$40,000

Item 3:

M-2  
Project is located at Building 1700 Heating Plant. Project is to provide and replace flash tank and heat exchange to include piping.

Justification: Flash tank, heat exchanger and piping has deteriorated beyond repair. Has been patched numerous times in the past.

Estimated Cost: \$35,000

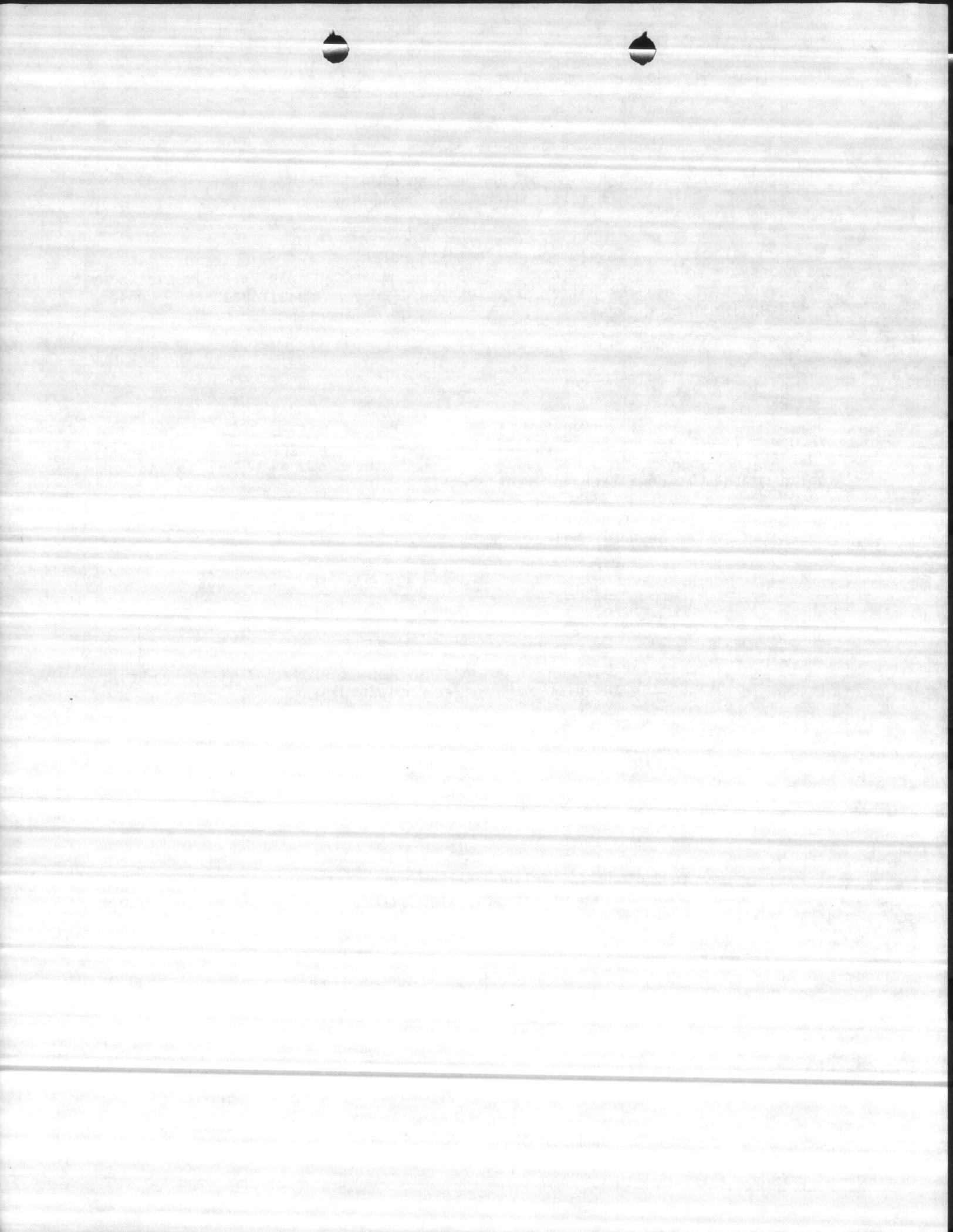
Item 4:

?  
Project is located at Building 1700 Heating Plant. Project is to provide and replace incoming main water line and stop valve.

Justification: Line and stop valve show extensive deterioration.

Estimated Cost: \$5,000

Total Estimated Cost: \$129,000



MISCELLANEOUS REPAIRS TO HEATING PLANTS  
RR-15, BB-9, BA-106, M-230, M-625

Item 1:

*Cancel  
In-House* Project is located at RR-15 Heating Plant. Project is to provide and replace tank, heating coil, regulator and piping.

Justification: Tank and heating coil has holes and has deteriorated beyond repair.

Estimated Cost: \$15,000

Item 2:

? Project is located at RR-15 Heating Plant. Project is to provide and replace blowdown line from two boilers to blowdown pit.

Justification: Lines have deteriorated and have holes in them.

Estimated Cost: \$2,000

Item 3:

? Project is located at BB-9 Heating Plant. Project is to provide and replace incoming water main and stop valve.

Justification: Water line and valve show extensive deterioration.

Estimated Cost: \$4,000

Item 4:

*Misc Rep  
Contract* Project is located at BA-106 Heating Plant. Project is to provide and replace incoming water main and stop valve.

Justification: Water line and valve show extensive deterioration.

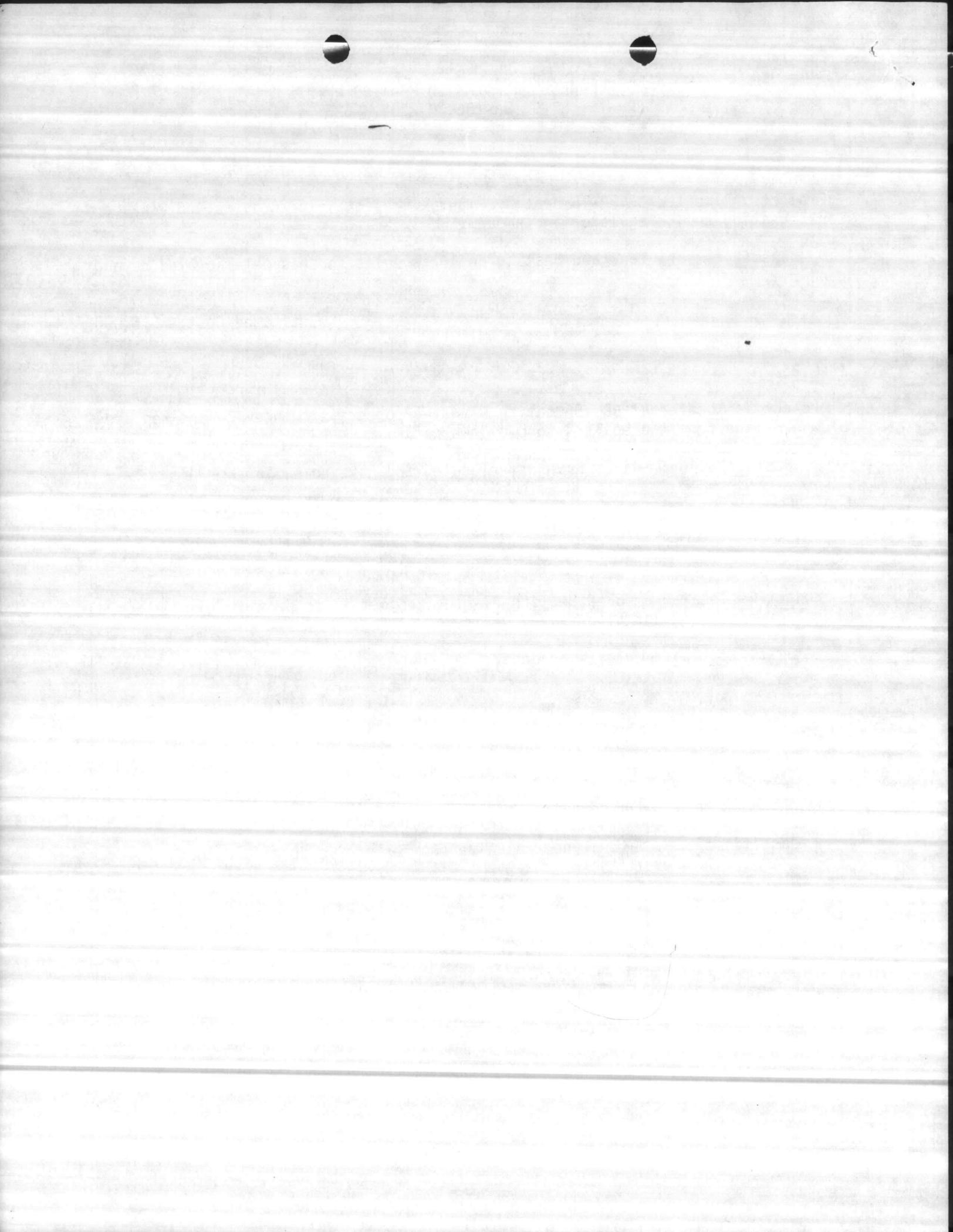
Estimated Cost: \$2,000

Item 5:

*Misc Repair  
Contract* Project is located at M-230 Heating Plant. Project is to provide and install blowdown lines from three boilers to the blowdown pit.

Justification: Lines have deteriorated and have holes in them.

Estimated Cost: \$2,000



Item 6:

Misc Repair  
Contract

Project is located at M-230 Heating Plant. Project is to provide two water softeners, piping and automatic controls.

Justification: Tanks are corroded and have thin spots in walls. These softeners are manually operated, and being at an unmanned plant, automatic softeners are essential for efficient operation.

Brine tank added to A + E Contract  
by E. Rouse (verbal)

Estimated Cost: \$5,000

Item 7:

Project is located at M-625 Heating Plant. Project is to provide and install one deareator.

Justification: Internal parts are worn from extensive use. Tank is corroded and pitted to the extent the walls are thin. Also, manway is pitted to the extent it cannot be completely sealed.

Estimated Cost: \$49,000

Item 8:

Project is located at M-625 Heating Plant. Project is to replace deteriorated boiler refractory and insulation.

Justification: Boiler refractory and insulation have deteriorated to the extent that desired boiler efficiency cannot be obtained.

Estimated Cost: \$25,000

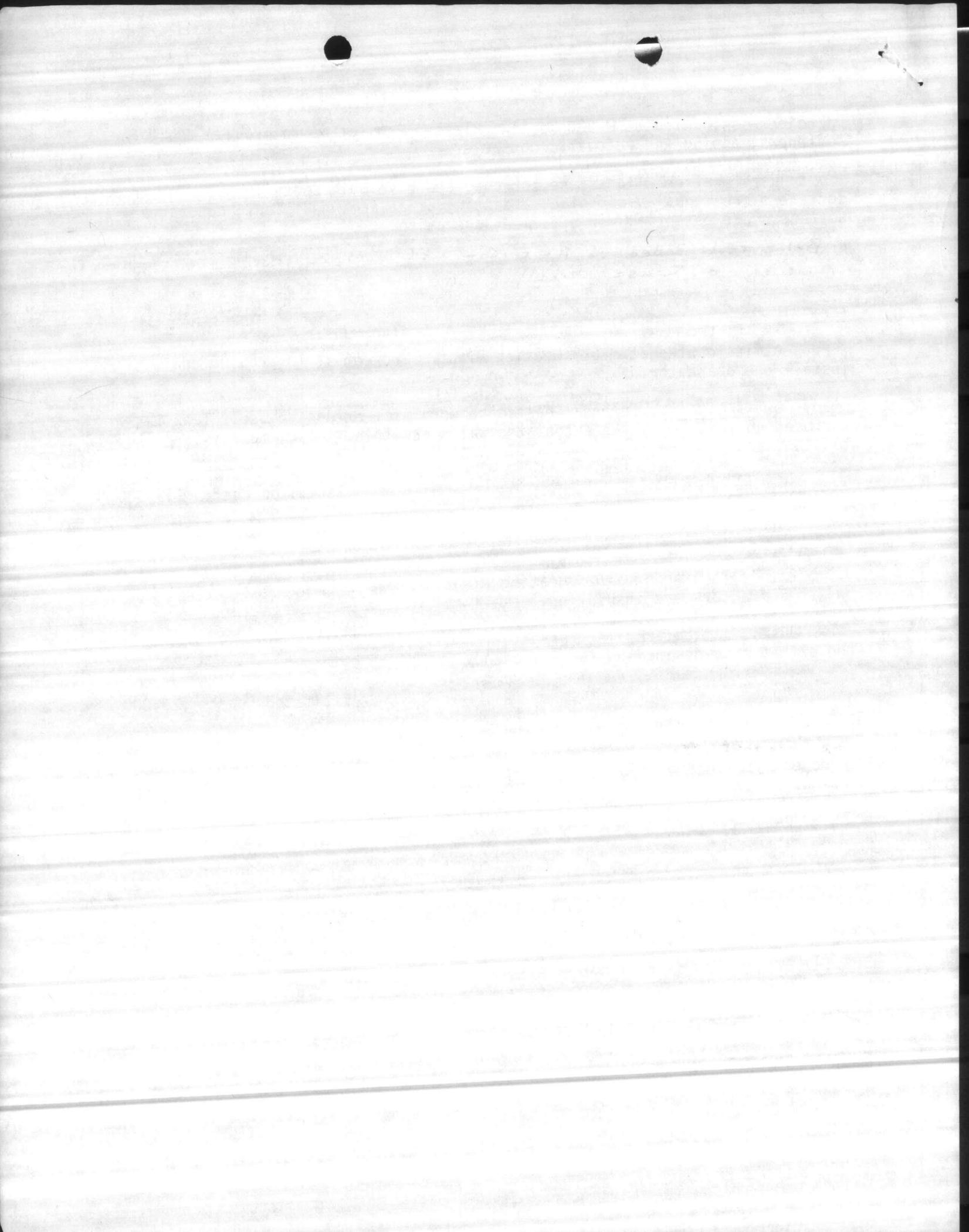
Item 9:

Project is located at M-625 Heating Plant. Project is to provide and replace incoming main water line and stop valve.

Justification: Line and stop valve show extensive deterioration.

Estimated Cost: \$4,000

TOTAL ESTIMATED COST: \$108,000



STRUCTURAL REPAIRS TO HEATING PLANTS  
BUILDINGS 1700 & G-650

Item 1:

M-2  
Project is located at Building 1700 Heating Plant. Project is to repair or replace deteriorated steel window frames, closures, and seal cracks.

Justification: The existing steel window have deteriorated from the environment of coal dust and boiler flue gas. The grouting has fell out from under windows due to the vibration of the plant.

Estimated Cost: \$20,000

Item 2: *Cancel Completed on separate contract*

~~Project is located at Building 1700 Heating Plant. Project is to sandblast, prime and paint one 175,000-gallon oil tank.~~

~~Justification: Oil tank is rusted from soot and flue gas environment of the boiler plant. If not corrected at this point, could lead to extensive pitting of the oil tank.~~

~~Estimated Cost: \$12,000~~

Item 3:

*complete*  
Project is located at G-650 Heating Plant. Project is to repair damaged and deteriorated siding on building and paint interior and exterior.

Justification: Siding has deteriorated from wear, use, soot and flue gases and environmental exposures.

Estimated Cost: \$20,000

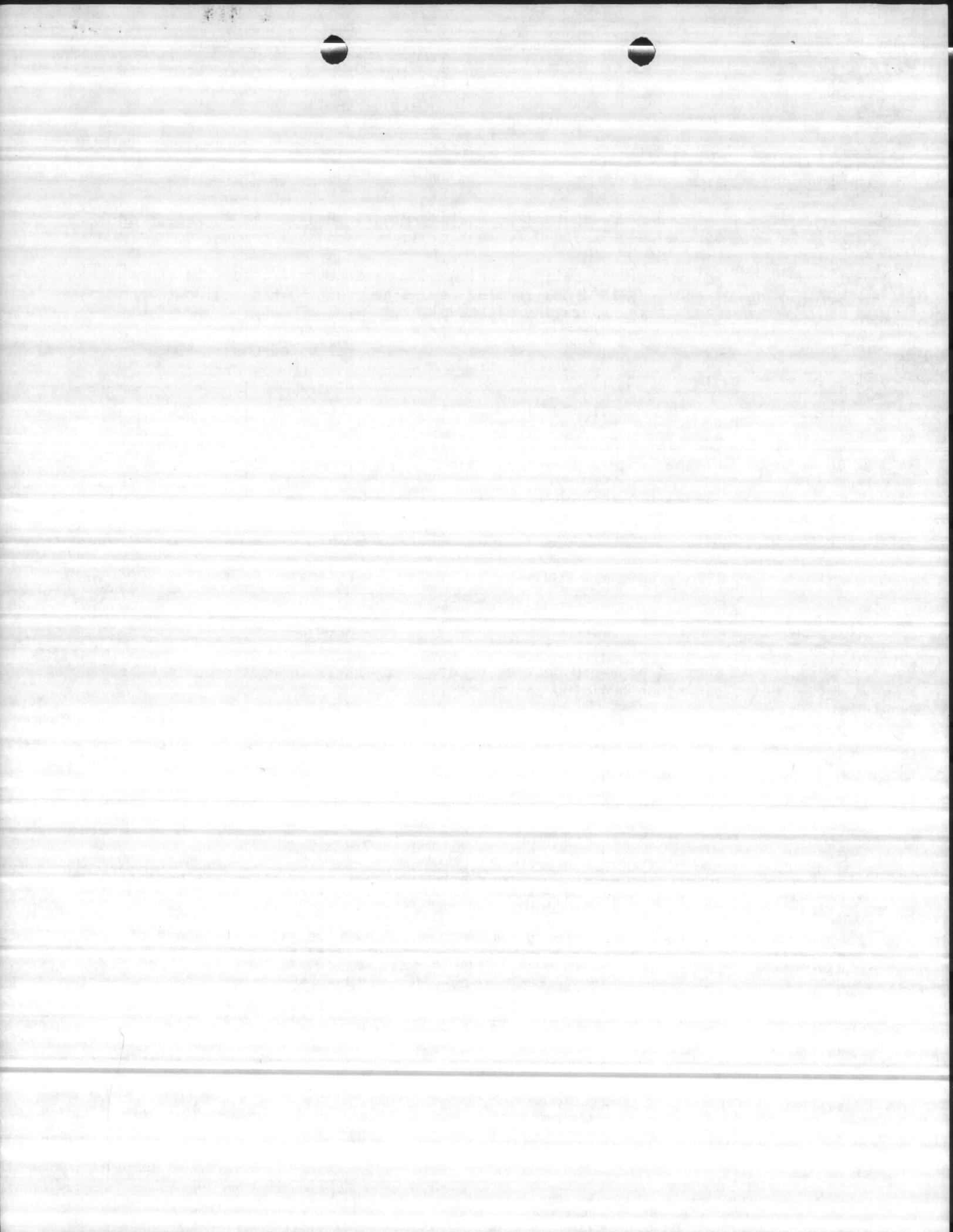
Item 4:

*complete*  
Project is located at G-650 Heating Plant. Project is to sandblast, prime, and paint two 60,000-gallon oil tanks.

Justification: Tanks are rusing from soot and flue gas environment of the boiler plant. If not corrected at this stage, could lead to extensive pitting of the tanks.

Estimated Cost: \$10,000

Total Estimated Cost: \$62,000



REPAIRS TO OIL PUMPING STATION  
M-625, M-230, BB-9, RR-15, PP-2615

Item 1:

M-2 Project is located at M-625 Heating Plant. Project is to provide and replace Duplex oil pumping station and oil heaters.

Justification: Existing oil pumping station will not deliver capacity necessary to operate at maximum capacity. Pumps are obsolete and worn with no repair parts available.

Estimated Cost: \$30,000

Item 2:

Misc Repair Contract Project is located at M-230 Heating Plant. Project is to replace existing oil pumps and piping with duplex pumping station.

Justification: Pumps are worn to the extent that they will not pump at capacity. Valves and piping arrangement was designed for No. 6 oil. The plant has been converted to No. 2 oil since then, requiring maintenance of valve and lines not necessary.

Estimated Cost: \$20,000

Item 3:

Project is located at BB-9 Heating Plant. Project is to provide and replace Duplex oil pumping station and oil heaters.

Justification: Existing oil pumping station will not deliver capacity necessary for plant operation.

Estimated Cost: \$25,000

Item 4:

Project is located at RR-15 Heating Plant. Project is to provide and install a Duplex oil pumping station with oil heaters to replace existing pumps and heaters.

Justification: Pumps are obsolete and worn to the extent they will not pump the capacity required to operate the plant at maximum output load.

Estimated Cost: \$25,000

Item 5:

Project is located at BOQ PP-2615 Heating Plant. Project is to provide and

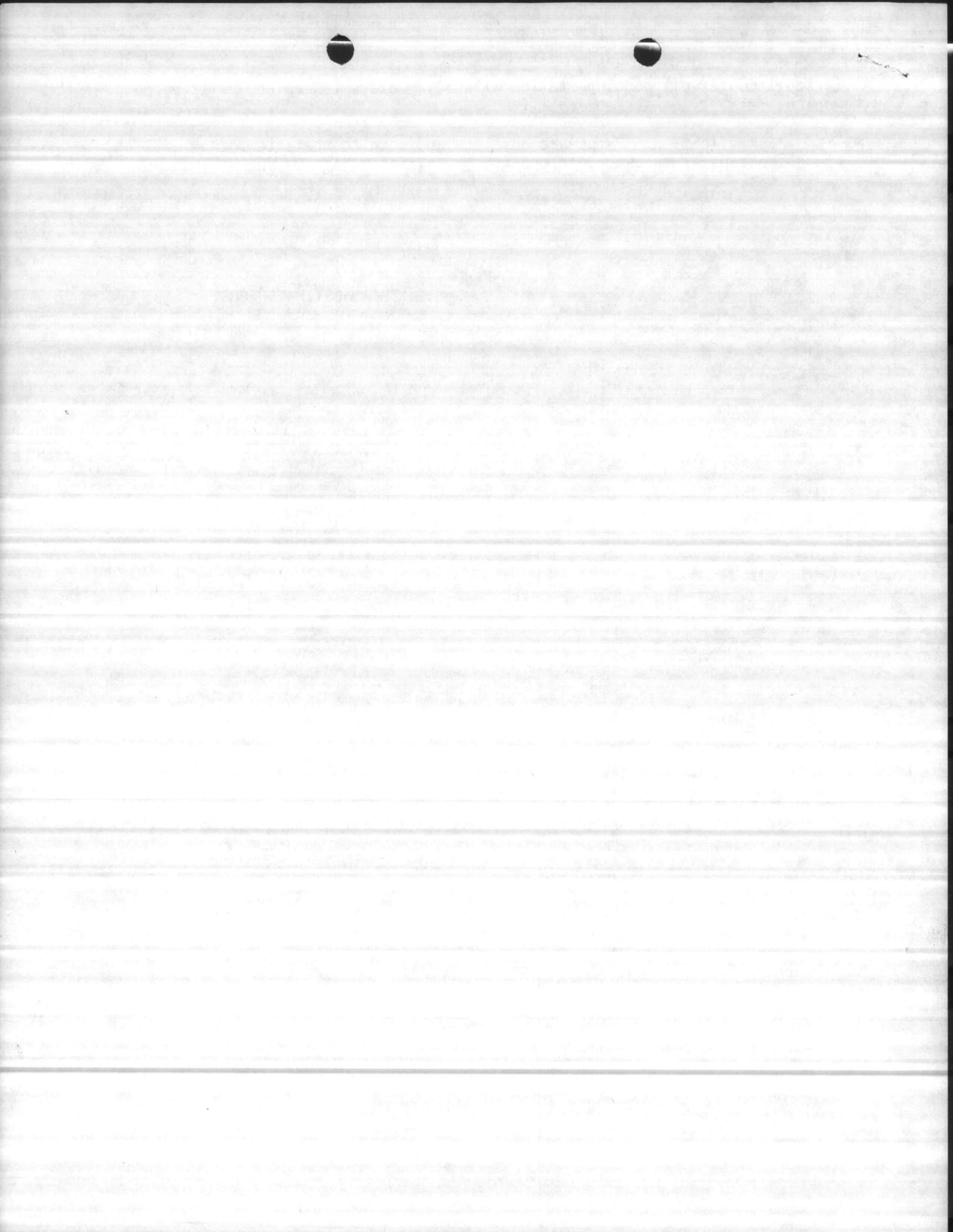


install Duplex oil pumping station with oil heaters to replace existing pumps and heaters.

Justification: Pumps are obsolete and worn to the extent they will not pump the capacity required to operate the plant at maximum output load.

Estimated Cost: \$25,000

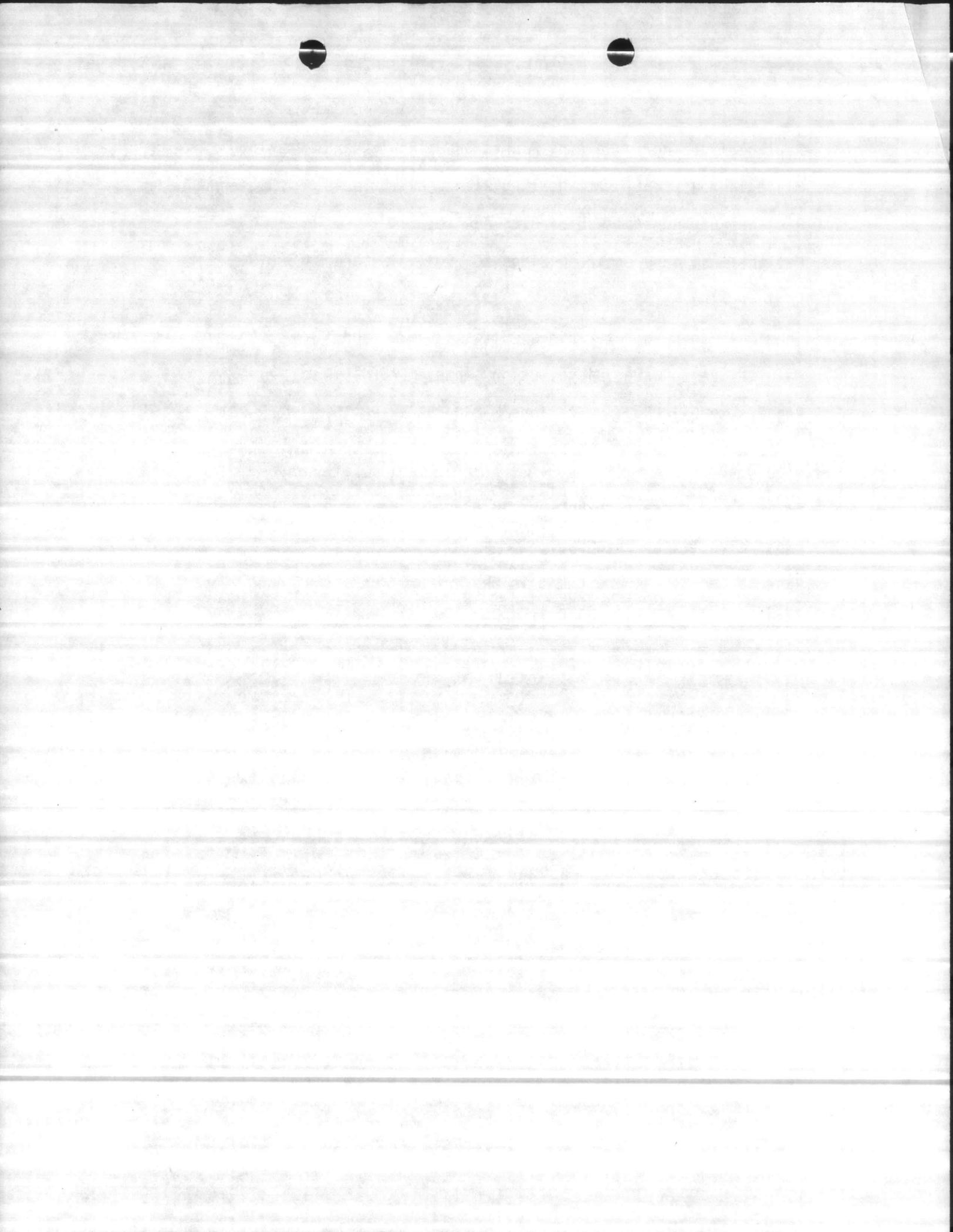
TOTAL ESTIMATED COST: \$125,000



16 Aug 82

M-1 Projects

1. Replace lighting in Heating Plants BB-9, RR-15, and PP-2615.
2. Miscellaneous repairs to Heating Plants RR-15, BB-9, M-230, and BA-106.
3. Replace Pump Control Cable, Bldg AS-110.
4. Replace Auxiliary Engines, Bldgs 20, 603, 613, and BA-138.
5. Replace windows, Bldg 20, and Paint Interior Walls.
6. Chemical Cleaning Water Lines, Bldgs 670, 20, and TT-38.
7. Maintenance to Water Distribution Lines, MCAS(H) NR.
8. Repairs to Oil Pumping Stations M-230, BB-9, RR-15, and PP-2615.
9. Replace condensate receiver tank, valves, float controls and alarms, Building M-625.
10. Replace oil burners on Boilers 38, 39, 40, Building M-230.
11. Replace Boiler No. 61, USO.
12. Replace mechanical equipment in the primary tanks, Building 22.
13. Paint interior walls and ceilings, Building 1300.



|                                   |  |  |  |                       |
|-----------------------------------|--|--|--|-----------------------|
| SECTION A<br>FOR USE BY REQUESTER | 1. FROM (Activity and location)<br>Commanding General, Marine Corps Base, Camp Lejeune, NC 28542   |  | 4. ESR IDENTIFICATION NUMBER (if applicable)<br>12E82, <u>REVISED</u> (Supersedes ESR 12E82, dtd 10 Feb 1982)                    |                       |
|                                   | 2. TO<br>Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511   |  | 6. TYPE OF FUNDING (check)<br><input type="checkbox"/> O&MN <input checked="" type="checkbox"/> OTHER (specify) <u>O&amp;MMC</u> |                       |
|                                   | 3. REFERENCE(S) (Attn: Code 09A21B3/M. Bryant)   |  | 8. DESIRED COMPLETION DATE<br>July 1982  |                       |
|                                   | 5. ENCLOSURE(S) (check)<br><input type="checkbox"/> NAVCOMPT 140 <input checked="" type="checkbox"/> OTHER (specify) _____<br><input type="checkbox"/> NAVCOMPT 2038<br><input type="checkbox"/> NAVCOMPT 372  |  | 7. TYPE OF SERVICES REQUESTED<br>Slate and select A&E firm and negotiate A&E contract for enclosed projects.                     |                       |
| SECTION B<br>FOR USE BY EFD       | 9. DESCRIPTION OF WORK<br>I. <u>GENERAL</u> . Plans and specifications are required for the repair and maintenance projects listed on enclosures (1) through (8). Like projects may be grouped and awarded to one A&E firm. Work for these projects is detailed in the enclosures.<br><br>II. <u>BACKGROUND</u> . Plans, specifications and cost estimates shall be prepared for those projects listed in enclosures (1) through (8) for local award of construction contract. Review of designs by this activity is required at the 35% and 90% stages. Pre-design conferences should be held at this activity prior to beginning design. |  |  |                       |
|                                   | 10. FOR INFORMATION CONSULT (Name and phone)<br>E. L. ROUSE, AV: 484-2213<br>FTS: 676-2213   |  | 11. OFFICIAL REPRESENTATIVE (Signature)<br><b>R. E. CARLSON</b><br>By direction  |                       |
| SECTION C<br>INTERIM ENDORSEMENT  | 1. SCOPE OF SERVICES   |  | 12. DATE<br>MAR 17 1982  |                       |
|                                   | send copy to Fred  |  | 2. DATE RECEIVED   |                       |
| 3. ESR NUMBER                     |  |  |  |                       |
| SECTION D<br>FINAL ENDORSEMENT    | 1. REMARKS   |  |  |                       |
|                                   | 2. EST. COMPLETION DATE  |  | 3. AUTHORIZED REPRESENTATIVE (Signature)   |                       |
| SECTION E<br>FINAL ENDORSEMENT    | 1. ENCLOSURE(S)<br><input type="checkbox"/> DRAWINGS AND MAPS <input type="checkbox"/> SPECIFICATIONS <input type="checkbox"/> REPORT<br><input type="checkbox"/> OTHER (specify) _____  |  |  |                       |
|                                   | 2. EST. COST (if applicable)<br>\$   |  | 3. AUTHORIZED REPRESENTATIVE (Signature)   |                       |
|                                   |  |  |  | 4. DATE OF COMPLETION |

COPY TO (w/o encl): AC/S, Fac; AC/S, Comp; BMaint0; OICC (02); CO, MCAS(H), NR (S-4)



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III. FUNDING. FY82 funds are available for design and construction and must be obligated during FY82. Funding will be provided upon request.

IV. POINT OF CONTACT. E. L. Rouse, Director, Design Division, AV: 484-2213; FTS: 676-2213.

- 
- Enclosures: (1) Rpl Lighting in Htg Plants BB-9, RR-15 & PP-2615 w/description of work and cost estimate
- (2) Misc Rprs to Htg Plants RR-15, BB-9, M-230 & BA-106 w/description of work and cost estimate
- (3) Rpl Pump Control Cable, Bldg AS-110 w/description of work, cost estimate and site location maps
- (4) Rpl Auxiliary Engines, Bldgs 20, 603, 613 & BA-138 w/description of work and cost estimate
- (5) Rpl Windows, Bldg 20 & Paint Interior Walls, Bldg 20 w/cost estimate
- (6) Chemical Cleaning Water Lines, Bldgs 670, 20 & TT-38 w/description of work, cost estimate & Dwgs Pierson & Whitman #W-2, Dec 51, Y&D #859319, 304819, 162234, 162260, 304822; NAVFAC Dwgs #1338914 & 1338912
- (7) Maint to Water Distr Lines, MCAS(H), NR, w/description of work, cost estimate and PubWks Dwgs #13296, 13299, 13301 & 13302
- (8) Rprs to Oil Pumping Stns M-230, BB-9, RR-15 & PP-2615 w/description of work and cost estimate

Rpl  
w/cost



20-1

PWO:04:GNS:hf  
81-3557

26 February 1981

From: Commanding General  
To: Commander, Atlantic Division, Naval Facilities Engineering Command  
(Code 09A21E), Norfolk, VA 23511

Subj: CG, MCB, CLNC ESR 5E81, Repairs to Heating Plant Equipment dtd  
22 January 1981

Ref: (a) Meeting btwn LCDR G. Sniffin, PW, MCB, and Mr. R. Dillon,  
Base Maintenance, MCB, on 25 Feb 1981  
(b) PHONECON btwn LCDR G. Sniffin, PW, MCB, and Mr. M. Bryant,  
LANTDIV, on 25 Feb 1981

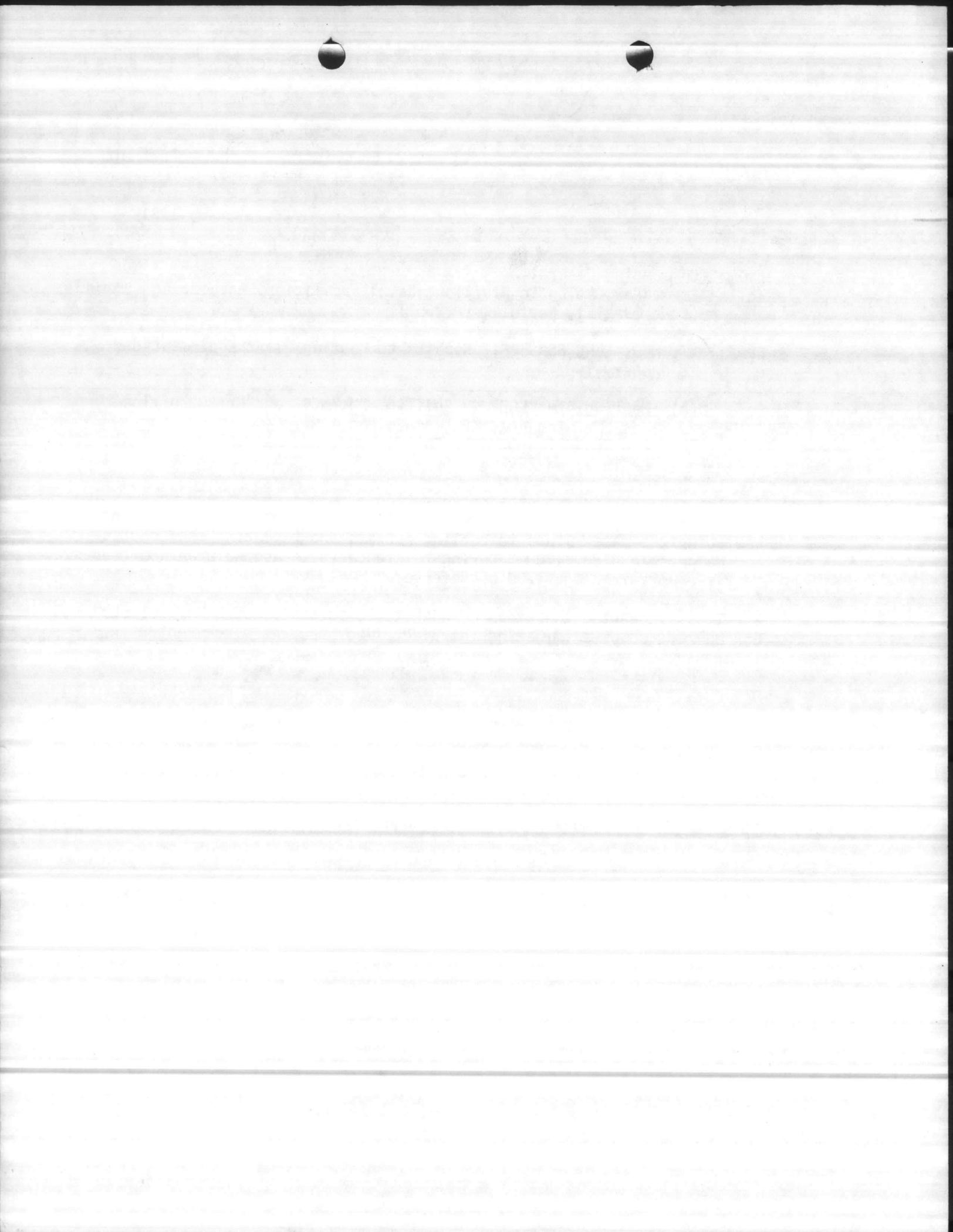
1. The subject ESR requested preparation of plans, specs and cost estimates for repairs to heating plant equipment in various buildings, including replacing the water lines to cooling jackets and replacing coal chutes and dampers in Bldg. 1700. During reference (a), Base Maintenance requested that the work in Bldg. 1700 be deferred.

2. It is requested the scope of work to be accomplished under the subject ESR be reduced by eliminating the Bldg. 1700 work, as discussed during reference (b).

1 copy

Blind Copy to:  
AC/S, Fac  
BMO

R. E. CARLSON  
By direction



*in call*

MAIN/CL/dkm  
4330  
9 March 1982

From: Base Maintenance Officer  
To: Public Works Officer

*Contract  
Canceled*

Subj: Preliminary Contract Number 82-4578, Replace Mechanical Equipment,  
Building M-230, File Number 2C65

1. It is requested that the description of work to be performed on subject contract be changed to add replacement of two water softeners. The contract is presently under design in the Mechanical Section.
2. Point of contact is F. E. Cone, Base Maintenance Division, extension 5161.

R. M. DILLON  
By direction

Copy to:  
UtilBr *←*



MAIN/RMD/crm  
4330  
25 February 1982

From: Base Maintenance Officer  
To: Public Works Officer

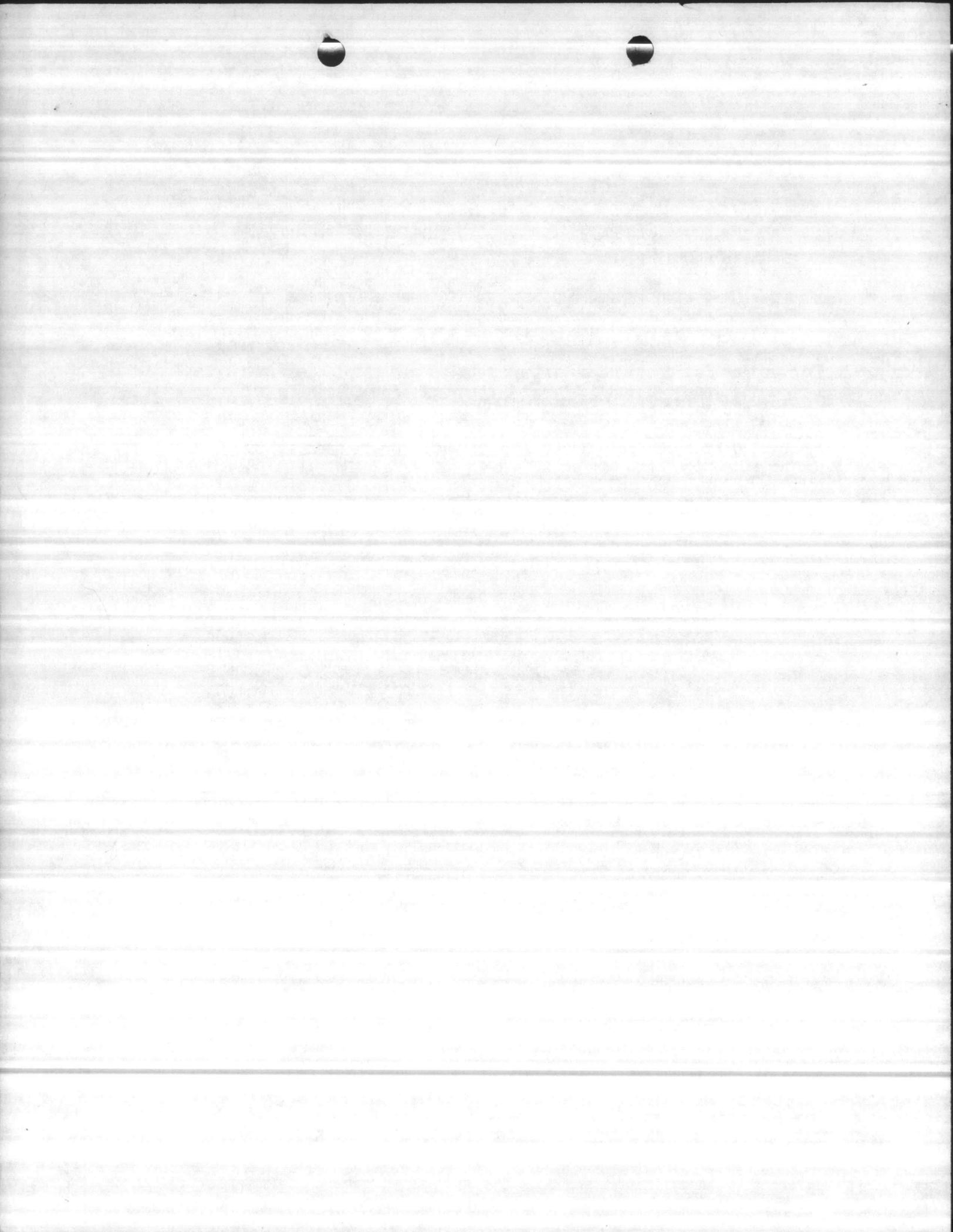
Subj: Design Contracts for Repair and Maintenance Projects

Ref: (a) BMO ltr MAIN/RMD/crm 4330 of 9 Feb 1982

1. Reference (a) provided a list of repairs and maintenance projects and requested negotiation of A and E contracts for design in order to advertise and award contracts prior to 30 September 1982.
2. A ruling received from Headquarters Marine Corps necessitates deletion of some of the projects. It is requested that all work in Buildings 1700, G-650 and M-625 be deleted from the list of repair and maintenance projects contained in enclosures (1) through (12) of reference (a).

R. M. DILLON  
By direction

BC to:  
Supv, InspSect



2054  
455-6141  
013-1

MAIN/RMD/cmm  
4330  
9 February 1982

From: Base Maintenance Officer  
To: Public Works Officer

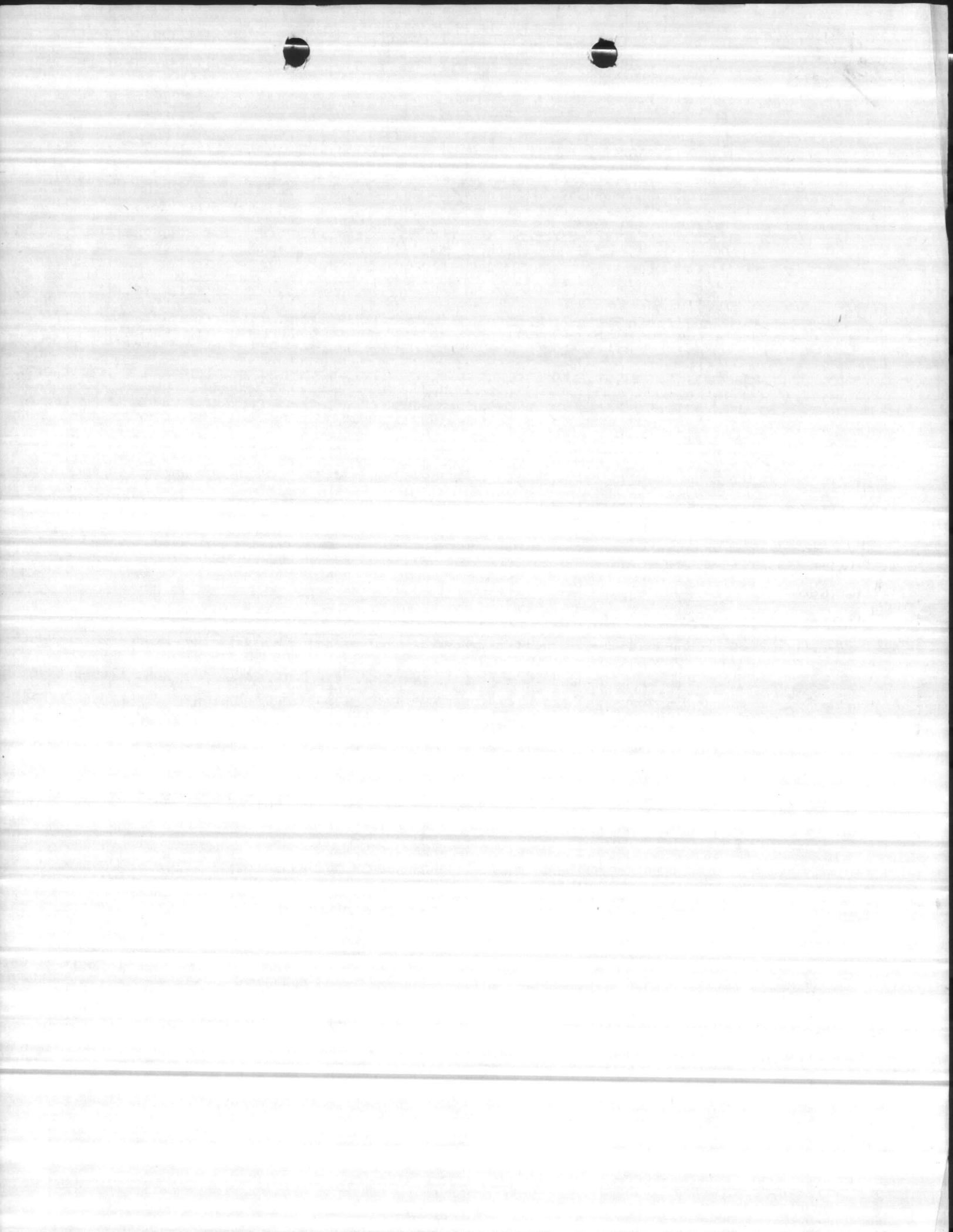
Subj: Design Contracts for Repair and Maintenance Projects; request for

- Encl: (1) Repairs to Central Heating Plant, Building 1700
- # 12,000 (2) Replace Lighting, Heating Plants M-625, BB-9, RR-15 and PP-2615
- (3) Replace Steam Meters and Pneumatic Controls G-650 and M-625
- # 45,000 (4) Miscellaneous Repairs to Heating Plants RR-15, BB-9, BA-106, M-230 and M-625
- (5) Structural Repairs to Heating Plants, Buildings 1700 and G-650
- # 38,000 (6) Replace Pump Control Cable, Building AS-110
- # 12,000 (7) Replace Auxiliary Engines, Buildings 20, 603, 613 and BA-138
- # 32,500 (8) Replace Windows, Building 20
- # 13,000 (9) Chemical Cleaning Water Lines, Buildings 670, 20 and TT-38
- # 169,000 (10) Repairs to Water Distribution Lines, MCAS(H), New River
- # 13,000 (11) Seal and Paint Walls, Building 670 20
- # 60,000 (12) Repairs to Oil Pumping Station M-625, M-230, BB-9, RR-15 and PP-2615

1. Enclosures (1) through (12) are forwarded requesting negotiation of A and E contracts to design the projects for advertisement and award of contracts prior to 30 September 1982.

R. M. DILLON  
By direction

File #s. 2054 thru 2065



20-1 204

|   |  |   |
|---|--|---|
| SECTION A<br>FOR USE BY REQUESTER   | 1. FROM (Activity and location)<br>Commanding General, Marine Corps Base, Camp Lejeune, NC 28542   |   |
|   | 2. TO<br>Commander, Atlantic Division, Naval Facilities Engineering Command, Norfolk, VA 23511   |   |
|   | 3. REFERENCE(S)  | 4. ESR IDENTIFICATION NUMBER (if applicable)<br>12E82   |
|   | 5. ENCLOSURE(S) (check)<br><input type="checkbox"/> NAVCOMPT 140<br><input type="checkbox"/> NAVCOMPT 2038<br><input type="checkbox"/> NAVCOMPT 372<br><input checked="" type="checkbox"/> OTHER (specify)<br>(See page 2) | 6. TYPE OF FUNDING (check)<br><input type="checkbox"/> O&MN<br><input type="checkbox"/> NIF<br><input type="checkbox"/> NAF<br><input checked="" type="checkbox"/> OTHER (specify)<br>O&MMC |
| 7. TYPE OF SERVICES REQUESTED<br>Slate and select A&E firm and negotiate A&E contract for enclosed projects |  | 8. DESIRED COMPLETION DATE<br>July 1982   |

|  |   |                         |  |
|--|---|-------------------------|--|
| SECTION B<br>FOR USE BY EFD  | 9. DESCRIPTION OF WORK  |                         |  |
|  | I. GENERAL. Plans and specifications are required for the repair and maintenance projects listed on enclosures (1) through (12). Like projects may be grouped and awarded to one A&E firm. Work for these projects is detailed in the enclosures.   |                         |  |
|  | II. BACKGROUND: Plans, specifications and cost estimates shall be prepared for those projects listed in enclosures (1) through (12) for local award of construction contract. Review of designs by this activity is required at the 35% and 90% stages. Pre-design conferences should be held at this activity prior to beginning design. |                         |  |
| 10. FOR INFORMATION CONSULT (Name and phone)<br>E. L. ROUSE, AV: 484-2213<br>FTS: 676-2213 | 11. OFFICIAL REPRESENTATIVE (Signature)<br>R. E. GIBSON   | 12. DATE<br>10 FEB 1982 |  |

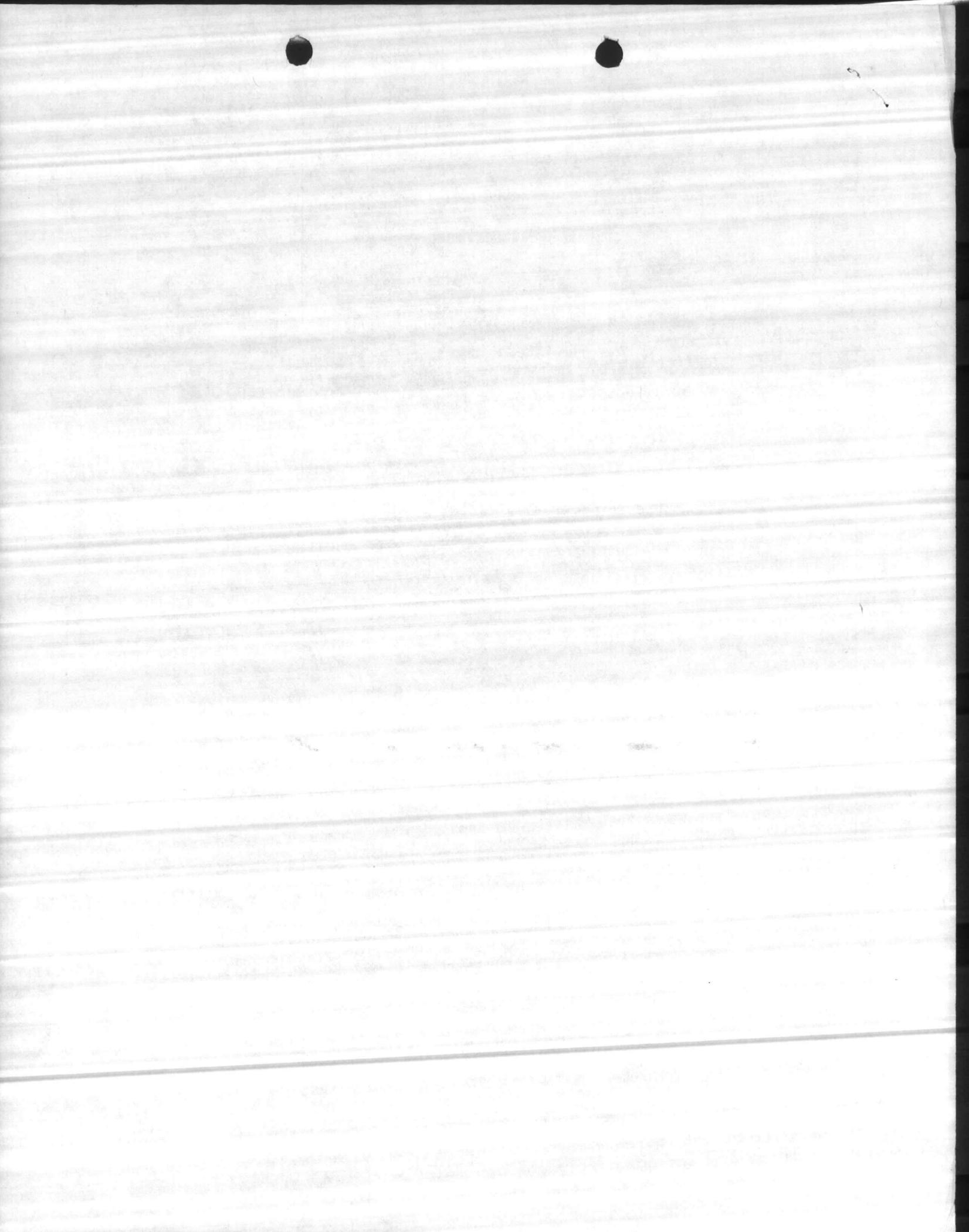
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|----------------------------------|--------------------------------------|--|------------------|
| SECTION C<br>INTERIM ENDORSEMENT | 1. SCOPE OF SERVICES<br>By direction |  | 2. DATE RECEIVED |
|                                  |                                      |  | 3. ESR NUMBER    |

COPY & FILE  
IN M-1  
FOLDERS - CONTRACT

|                                |                         |  |         |
|--------------------------------|-------------------------|--|---------|
| SECTION D<br>FINAL ENDORSEMENT | 1. REMARKS              |  |         |
|                                | 2. EST. COMPLETION DATE | 3. AUTHORIZED REPRESENTATIVE (Signature) | 4. DATE |

|                                |   |  |                       |
|--------------------------------|---|--|-----------------------|
| SECTION D<br>FINAL ENDORSEMENT | 1. ENCLOSURE(S)<br><input type="checkbox"/> DRAWINGS AND MAPS<br><input type="checkbox"/> OTHER (specify) _____<br><input type="checkbox"/> SPECIFICATIONS<br><input type="checkbox"/> REPORT |  |                       |
|                                | 2. EST. COST (if applicable)<br>\$  | 3. AUTHORIZED REPRESENTATIVE (Signature) | 4. DATE OF COMPLETION |

COPY TO (w/o encl) AC/S, Fac: AC/S, Comp; BMaint0; OICC (02); CO, MCAS(H), NR (S-4)



III. FUNDING: FY82 funds are available for design and construction and must be obligated during FY82. Funding will be provided upon request.

IV. POINT OF CONTACT: E. L. Rouse, Director, Design Division, AV: 484-2213/FTS: 676-2213.

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- Enclosures <sup>2050</sup> (1) Repairs to Central Heating Plant, Bldg 1700  
(2) Replace Lighting, Heating Plants M-625, BB-9, RR-15 & PP-2615  
(3) Replace Steam Meters & Pneumatic Controls, Bldgs G-650 & M-625  
(4) Miscellaneous Repairs to Heating Plants RR-15, BB-C, BA-106, M-230 and M-625  
(5) Structural Repairs to Heating Plants, Bldgs 1700 & G-650  
(6) Replace Pump Control Cable, Bldg AS-110  
(7) Replace Auxiliary Engines, Bldgs 20, 603, 613 & BA-138  
(8) Replace Windows, Bldg 20  
(9) Chemical Cleaning Water Lines, Bldgs 670, 20 & TT-38  
(10) Repairs to Water Distribution Lines, MCAS(H), New River  
(11) Seal & Paint Walls, Bldg 670  
(12) Repairs to Oil Pumping Stations M-625, M-230, BB-9, RR-15 & PP-2615

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