GHS

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GARY, INDIANA 46402

SHEET NUMBER

SHEET TITLE

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DATE

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DRAWN BY

CAROLYN B.

MOSBY

SENIOR BUILDINGS

650 JACKSON STREET
GARY, INDIANA 46402

GLEN

BOILER REPLACEMENT

3280 PIERCE STREET
GARY, INDIANA 46408
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578 BROADWAY  
GARY, INDIANA 46402

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**Glen Park**  
B O I L E R R E P L A C E M E N T  
650 JACKSON STREET  
GARY, INDIANA 46402  
CAROLYN B. MOSBY  
SENIOR BUILDINGS  
GLEN PARK  
BOILER REPLACEMENT  
CAROLYN B. MOSBY  
GLEN PARK  
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GARY, INDIANA 46402  
CAROLYN B. MOSBY  
SENIOR BUILDINGS  
GLEN PARK  
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SENIOR BUILDING
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GARY, INDIANA 46402
CAROLYN B.

BOILER REPLACEMENT

END SUCTION PUMP DETAIL 1

FOR OPERATING PRESSURE GREATER THAN 100 PSI PROVIDE A 1" CAKE UNION PRESSURE HOSE TO MOUNT THE BUTTERFLY AND PUMP VALVES.

MOSBY

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Chicago, IL 60606
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312-922-6400

SHEET NO.
DESCRIPTION
DATE
GEC PN
CHECKED BY
DRAWN BY
16060.007
M-402
# Boiler Schedule - Mosby

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<th>Type</th>
<th>GPM</th>
<th>TPI</th>
<th>HPH</th>
<th>MPM</th>
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<td>Mechanical Room</td>
<td>2</td>
<td>Heating</td>
<td>Hot Water</td>
<td>Centrifugal, Base Mounted</td>
<td>225</td>
<td>32</td>
<td>058/5803</td>
<td>3</td>
<td>1600</td>
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## Boiler Schedule - Glen Park

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<th>GPM</th>
<th>TPI</th>
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<td>Heating</td>
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<td>Centrifugal, Base Mounted</td>
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<td>32</td>
<td>058/5803</td>
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<th>Type</th>
<th>GPM</th>
<th>TPI</th>
<th>HPH</th>
<th>MPM</th>
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<tr>
<td>P-3</td>
<td>Mechanical Room</td>
<td>1</td>
<td>Heating</td>
<td>Hot Water</td>
<td>Centrifugal, Base Mounted</td>
<td>73</td>
<td>18</td>
<td>058/5803</td>
<td>0.75</td>
<td>1600</td>
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# Miscellaneous Equipment Schedule

- **Expansion Tank**: Based on Kessel's NLA Heavy Duty Betyl, replaceable bladder tank 25 gallons. Maximum 125 PSI working pressure, maximum 220 working temperature approximate 160lbs. Provide 866 Rolaircool air separator for 225 with standby.
- **Filter**: Provide spinout dirt eliminator, ELIMINATOR MODEL, VOT 400 Dirt Separator, Dirt Blow Down-Manually provide support for the unit.

Note: **Closed Loop Circulation**

2 Moslem Winter
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GARY, INDIANA 46402

SHEET NUMBER

SHEET TITLE

SEAL

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CAROLYN B.

BOILER REPLACEMENT

PARK

GLEN

3280 PIERCE STREET
GARY, INDIANA 46408

ELECTRICAL INSTALLATION


ALL EXISTING EQUIPMENT AND ELECTRICAL SERVICES SHALL REMAIN IN PLACE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL CONCRETE AND MATERIALS NEEDED TO COMPLETE THE WORK.

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ELECTRICAL INSTALLATION SHOULD BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL, STATE, AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITIES COMPANY.

ALL EQUIPMENT/DEVICES SHALL BE NEW AND OF FULLY QUALITY, AND SHALL COMPLY WITH ALL APPLICABLE CODES AND STANDARDS. ALL EQUIPMENT/DEVICES SHALL BE FASHIONED AS SHOWN IN THE DRAWINGS.

ALL WIRING IN CONCEALED AREAS SHALL BE INSTALLED IN WIREMESH CONDUIT, OR OTHER APPROVED METHODS TO MEET THE REQUIREMENTS OF THE ROYAL ELECTRICAL CODE AND LOCAL BUILDING CODE.

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MECHANICAL ROOM ELECTRICAL DEMOLITION EAST VIEW

MECHANICAL ROOM ELECTRICAL DEMOLITION WEST VIEW

MECHANICAL ROOM ELECTRICAL DEMOLITION NORTHWEST VIEW

MECHANICAL ROOM ELECTRICAL DEMOLITION WEST VIEW

BOILER REPLACEMENT

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650 JACKSON STREET
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CAROLYN B.

Globetrotters
Engineering Consultants

MECHANICAL RM
ELECTRICAL
DEMO.&ONE LINE
DIAGRAM

NO.
DESCRIPTION
DATE

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Project No. 60-506-3001
Date 1/1/98

MEDAL
MECHANICAL RM
ELECTRICAL
DEMO & ONE LINE
DIAGRAM

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CAROLYN B.
NEW ELECTRICAL BOILER ROOM PLAN

1. Contractor to replace existing pump with a new pump. Provide all materials and accessories as needed. Refer to equipment wiring schedule for additional information.
2. Intercept and extend conduit and wiring to pump. Provide all accessories and materials for a complete, code compliant installation.
3. Re-connect existing electrical feeder to pump. Test system for proper operation.
4. Electrical equipment to remain.
5. Re-connect existing electrical feeder to boiler from L-1 to 21. Test system for proper operation.
6. Contractor to provide 241/2 & 4/12 grid in 1/4"/6" from the panel L-2 to 17, provide (1) 20A-1P circuit breaker. Test system for proper operation.
7. Mechanical equipment to remain.

WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED IN AREAS THAT
CONFLICT WITH NEW EQUIPMENT, FINS, OR ELECTRICAL TO BE
INSTALLED, EACH CONTRACTOR SHALL EITHER ARRANGE NEW EQUIPMENT,
CONDUCT, OR ELECTRICAL IN SUCH A FASHION THAT IT DOES NOT
CONFICT WITH EXISTING SYSTEMS, OR REMOVED EXISTING ELECTRICAL
SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, FINS, OR
ELECTRICAL.

1. Contractor shall ensure the testing procedures comply with manufacturers recommendations.
2. Provide updated panel directory.
3. Refer to panel schedules for ordering information.
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SHEET NUMBER 1

SHEET TITLE ISSUANCES

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GARY, INDIANA 46402

BOILER REPLACEMENT

PARTIAL DEMOLITION SINGLE LINE DIAGRAM

PARTIAL SINGLE LINE DIAGRAM

E-102
## Electrical Equipment Wiring Schedule

### Carolyn B. Mosby

#### Notes:
1. CONTRACTOR TO CONFIRM FIELD WITH EXISTING FEEDER CIRCUITRY FOR NEW PUMPS.
2. MECHANICAL EQUIPMENT.
3. EXISTING CONTROL SWITCH TO REMAIN.

### Equipment Details

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<th>Location</th>
<th>Volt</th>
<th>Phase</th>
<th>HP</th>
<th>KW</th>
<th>Panel</th>
<th>CCT</th>
<th>Size</th>
<th>Size</th>
<th>Cond</th>
<th>Size</th>
<th>Cond</th>
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<td>BOILER ROOM FIRST FLOOR</td>
<td>480</td>
<td>3</td>
<td>13</td>
<td>11</td>
<td>LF-1</td>
<td>2</td>
<td>20A</td>
<td>1</td>
<td>1</td>
<td>35</td>
<td>1</td>
<td>#12</td>
<td>34AWG</td>
<td>CLEVERBRICKS-CFC-3000</td>
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<td>15</td>
<td>12</td>
<td>LF-2</td>
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<td>3</td>
<td>3</td>
<td>11</td>
<td>LF-1</td>
<td>1.3-5</td>
<td>20A</td>
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CAROLYN B.

CHARACTERISTICS

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PUMP AND PIPING DEMOLITION

MD-102
MACHANICAL ROOM I SECTION NORTHEAST VIEW

MACHANICAL ROOM I SECTION WEST VIEW
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GARY, INDIANA 46402
CAROLYN B.

BOILER REPLACEMENT

GHA
GARY HOUSING AUTHORITY
GARY, INDIANA 46402

MD-104
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GARY, INDIANA 46402
CAROLYN B.

SHEET NUMBER
SHEET TITLE
SEAL
ISSUANCES

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DESCRIPTION
DATE

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MECHANICAL DEMOLITION PIPING PLAN

SCALE 1/8" = 1'-0"
GARY HOUSING AUTHORITY
578 BROADWAY
GARY, INDIANA 46402

SHEET NUMBER
SHEET TITLE
SEAL

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NO. DESCRIPTION

MOSBY
SENIOR BUILDING
650 JACKSON STREET
GARY, INDIANA 46402

CAROLYN B.

CHECKED BY
DRAWN BY

1. CARBON MONOXIDE MONITOR ON 2ND FLOOR ABOVE MECHANICAL ROOM

TYPICAL MECHANICAL FLOOR PLAN

NOTE:

SCALE 1/8"=1'-0"
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GARY, INDIANA 46402

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NEW MECHANICAL ROOM HVAC PLAN

SCALE 1/4" = 1'-0"
1. Remove electrical connections in mechanical equipment where removal now involves removal of all items, including disconnects, conduit and conductors to control panel and/or nearest junction box.
2. Remove electrical equipment & turn it over to the owner.
3. Reconnect electrical connections and seal for future use.
### MECHANICAL ROOM ELECTRICAL DEMOLITION SOUTH VIEW

**RADIO - ELECTRICAL DEMOLITION**

1. **Prepare demolition and mechanical equipment**
2. **Drainage of all fluids and fluids in conduits.**
3. **Conduct all electrical wiring and connections to control panel and/or nearest junction box.**
4. **Remove disconnect and electrical equipment & turn it over to the owner.**
5. **Equipment/device to be salvaged for future use.**

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**PRIME CONSULTANT**

**NO.**

**DESCRIPTION**

1. **GEC PN:**
2. **CHECKED BY:**
3. **DRAWN BY:**

**BOARD REPLACEMENT**

GLEN PARK
3280 PIERCE STREET
GARY, INDIANA 46408

**SENIOR BUILDING**
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GARY HOUSING AUTHORITY
578 BROADWAY
GARY, INDIANA 46402

SHEET NUMBER

SHEET TITLE

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NO.

DESCRIPTION

DATE

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NEW ELECTRICAL BOILER ROOM PLAN

1. NEW ELECTRICAL BOILER ROOM PLAN

2. PROPOSED TO REPLACE EXISTING PUMP WITH A NEW PUMP. PROVIDE ALL MATERIALS AND MODIFICATIONS AS NEEDED. REFER TO EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL INFORMATION.

3. INTERCEPT AND EXTEND CONDUIT AND WIRING TO PUMP. PROVIDE ALL MODIFICATIONS AND MATERIALS FOR COMPLETE CODE COMPLIANT INSTALLATION.

4. RECONNECT EXISTING ELECTRICAL FEEDER TO PUMP. TEST SYSTEM FOR PROPER OPERATION.

5. ELECTRICAL EQUIPMENT TO REMAIN.

6. CONTRACTOR TO CONFORM IN FIELD WITH EXISTING FEEDER CIRCUITRY FOR NEW PUMPS.

7. CONTRACTOR TO PROVIDE 3/8" IN 3/4" FROM THE PANEL BR-OP (7-6-12). PROVIDE (1) 20A-3P CIRCUIT BREAKER. TEST SYSTEM FOR PROPER OPERATION.

8. CONTRACTOR TO PROVIDE 3/8" IN 3/4" FROM THE PANEL BR-OP (8-12-12). PROVIDE (1) 20A-3P CIRCUIT BREAKER. TEST SYSTEM FOR PROPER OPERATION.

9. MECHANICAL EQUIPMENT TO REMAIN.

10. WHERE EXISTING ELECTRICAL SYSTEMS ARE LOCATED, IF ANY, THAT CONFLICT WITH NEW EQUIPMENT, PUMP, OR ELECTRICAL TO BE INSTALLED. SOLUTION TO BE DETERMINED IN SUCH A MANNER THAT IT DOES NOT CONFLICT WITH EXISTING SYSTEMS OR INTERFERE WITH EXISTING ELECTRICAL SYSTEMS TO ALLOW FOR INSTALLATION OF NEW EQUIPMENT, PUMP, OR ELECTRIC.

11. CONTRACTOR SHALL ENRICH THE TESTING PROCEDURES COMPLY WITH MANUFACTURER'S RECOMMENDATIONS.

12. PROVIDE UPDATED PANEL DIRECTORY.

13. REFER TO PANEL SCHEDULE FOR CIRCUITING INFORMATION.

14. BOILER REPLACEMENT

PRIME CONSULTANT

ENGINEERS - ARCHITECTS

300 S. Wacker Drive

Chicago, IL 60606

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312-922-6400

NEW ELECTRICAL BOILER ROOM PLAN

PLAN NO.

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New Page
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### TABLE - ELECTRICAL EQUIPMENT Wiring Schedule, Glen Park

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<thead>
<tr>
<th>TAG</th>
<th>DESCRIPTION</th>
<th>LOCATION</th>
<th>VOLT</th>
<th>PHASE</th>
<th>AMP</th>
<th>LOAD</th>
<th>FEED FROM</th>
<th>OCP</th>
<th>WIRING</th>
<th>DISCONNECT</th>
<th>STARTER</th>
<th>SEE NOTES</th>
<th>MANUFACTURER</th>
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<tr>
<td>B-N</td>
<td>BOILER-NORTH</td>
<td>BOILER ROOM 10TH</td>
<td>208</td>
<td>3</td>
<td>3</td>
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<td>UF 2</td>
<td>06</td>
<td></td>
<td>23</td>
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<td>B-S</td>
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<td>208</td>
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<td>3</td>
<td></td>
<td>UF 2</td>
<td>06</td>
<td></td>
<td>23</td>
<td></td>
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<tr>
<td>P-1</td>
<td>PUMP-BASED MTD CIRC PUMP</td>
<td>BOILER ROOM 10TH</td>
<td>208</td>
<td>3</td>
<td>3</td>
<td></td>
<td>EMERGENCY PANEL, FIRST FLOOR</td>
<td>06</td>
<td></td>
<td>23</td>
<td>2</td>
<td>BELL &amp; GOSSET S10-4R CIRC PUMP</td>
<td></td>
</tr>
<tr>
<td>P-2</td>
<td>PUMP-BASED MTD CIRC PUMP</td>
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<td>208</td>
<td>3</td>
<td>3</td>
<td></td>
<td>EMERGENCY PANEL, FIRST FLOOR</td>
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<td></td>
<td>23</td>
<td>2</td>
<td>BELL &amp; GOSSET S10-4R CIRC PUMP</td>
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<tr>
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<td>23</td>
<td>2</td>
<td>BELL &amp; GOSSET S10-4R CIRC PUMP</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
1. CONTRACTOR TO CONFIRM IF FIELD WITH EXISTING FEEDER CIRCUIT FOR NEW PUMPS.
2. NEW MECHANICAL EQUIPMENT.
3. EXISTING CONTROL SWITCH TO REMAIN.
4. EXISTING EMERGENCY PANEL.
5. CONTRACTOR TO CONFIRM IF FIELD WITH EXISTING FEEDER CIRCUIT FOR NEW BOILERS.
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GLEN PARK
3280 PIERCE STREET
GARY, INDIANA 46408
SENIOR BUILDING

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GARY, INDIANA 46408
SENIOR BUILDING

BOILER REPLACEMENT

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MECHANICAL ROOM DEMOLITION

MECHANICAL ROOM DEMOLITION W/S VIEW

MECHANICAL ROOM DEMOLITION NORTH AS VIEW
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FIRST FLOOR MECHANICAL PLAN

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GARY, INDIANA 46408

SENIOR BUILDING

BOILER REPLACEMENT

M-201
GARY HOUSING AUTHORITY
578 BROADWAY
GARY, INDIANA 46402

SHEET NUMBER
SHEET TITLE
SEAL

ISUUANCES

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NEW MECHANICAL BOILER ROOM PLAN
SCALE 1/4"=1'-0"
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NEW MECHANICAL BOILER ROOM PLAN

NOTES:
1. CONTRACTOR IS RESPONSIBLE TO PROVIDE PROTECTION FOR EXISTING ROOF MOUNTED WIRELESS RADIATION SYSTEM.
2. CONTRACTOR IS RESPONSIBLE TO PROVIDE PROTECTION FOR HIDING.