NOTES:

1. TANKS MANUFACTURED TO INSTALL NOZZLE AS LOW AS POSSIBLE ON TANK FLOOR TO ALLOW ADJUSTMENT OF TANK FLANGE.

2. ALL NOZZLES TO EXTEND 6" FROM TANK TOP TO FLOOR OF TANK.

3. REFER TO "DINNOMETER DETAIL" SHEET M-11.

4. DIMENSIONS SHALL CANNOT BE ADJUSTED ABOVE TANK TOP, TANK MANUFACTURER'S TO DETERMINE DIMENSIONS HTML TANK TOP, EXCEPT FOR FLOOR OF TANK.

5. NOZZLES TO BE 2" IN. "A" SHALL BE PROVIDED WITH HOES AND PLAIN FLANGES PROVIDED BY TANK MANUFACTURER.

6. ALL NOZZLES DESCRIPTIONS ARE FROM TANK BOTTOM TO CENTERLINE OF NOZZLE, UNLESS OTHERWISE NOTED.

7. TANK 10" HANDLING AND T-10" POINTS NOT SHOWN FOR CLARITY.

8. NOZZLE 10" HOES ARE AN OPTION (NOTES N & O), AND MAY OR MAY NOT BE PROVIDED. NOZZLES IN N & O SHALL BE PROVIDED AS A SEPARATE LINE OF 10" HOES IN TWO-TIER TANK.

9. NOZZLE "A" AND "I" SHALL BE PROVIDED ON ADJUSTMENT TANK & TANK ONLY.

10. ALL NOZZLES PRODUCED WITH EXTERIOR FLANGE AND INTERIOR PLANE PROVIDED.

11. NOT TO SCALE.
NOTE:
1. TANK MANUFACTURER TO INSTALL NOZZLE AT LEAST 12" ABOVE TANK BOTTOM TO ALLOW GRAVITY FLOW.
2. ALL NOZZLES TO EXTEND 6" FROM TANK Bottom TO FACE OF FLANGE.
3. REFER TO "SECTION DETAIL" SHEET M-19.
4. DOWNSHOTS SHALL EXTEND 3'-0" ABOVE TANK FLOOR. TANK MANUFACTURER TO INSTALL DOWNSHOTS FROM TANK FLOOR TO ENSURE STRUCTURAL INTEGRITY OF DOWNSHOTS IN MOUNTED TANK.
5. NOZZLE 3/4" DIA. FLANGE SHALL BE FITTED WITH GASKET AND BOLT PLATED PROVIDED BY TANK MANUFACTURER.
6. ALL NOZZLE Fittings ARE FROM TANK Bottom TO CENTERLINE OF NOZZLE, UNLESS OTHERWISE NOTED.
7. TANK TOP MANHOLE AND TIFF POINTS NOT SHOWN FOR CLARITY.
8. HOLE HOLES FOR EACH NOZZLE FLANGE SHALL RETAIN THE NOZZLE CERTIFICATE.

NOZZLE  CONNNECTION  DESCRIPTION  DIAMETER  ORIENTATION  CENTERLINE HEIGHT  TYPE
A  1½"  TO EFFLUENT MONITORING TANK #2  4"  SOUTH END  TBD  FL.
B  4"-LEC  LOW LEVEL  4"  NORTH END  TBD  FL.
C  4½"-SWAN  SWAN  4"  NORTH END  TBD  FL.
D  2½"-MINIARY  MINIARY  4"  SOUTH END  TBD  FL.
E  2½"-AC  AC  3"  WEST END  TBD  FL.
F  1½"-AC  AC  1½"  SOUTH EAST  TBD  FL.

*TOP OF TANK*
F = EXTERIOR FLANGE PROVIDED.
AC = EXTERIOR FLANGE AND INTERIOR FLANGE PROVIDED.
1. Tank manufacturer to install nozzle as low as possible on tank sidewall to avoid erosion of flange and flange cover. All nozzles to extend 8” from top flange to face of flange.
2. Refer to "Nozzle details" sheet M-19.
3. Nipple size of nozzle shall extend down 2” above tank floor. Tank manufacturer to supply dewatering valves from tank wall to extension union to ensure structural integrity of dewatering as required.
4. Nozzle nipples shall be provided with gaskets and blind flanges provided by tank manufacturer.
5. All nozzles installed are from tank bottom to contour of nozzle, unless otherwise noted.
6. Tank top manholes and tie-off points not shown for clarity.
7. Sky is for illustration only.

### NOZZLE SCHEDULE

<table>
<thead>
<tr>
<th>NOZZLE</th>
<th>CONNECTION</th>
<th>DESCRIPTION</th>
<th>DOWNTOWER</th>
<th>DIAMETER</th>
<th>ORIENTATION</th>
<th>CENTERLINE HEIGHT</th>
<th>TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>1 1/4&quot;</td>
<td>TO EFFLUENT/BEVENGAGE PUMPS</td>
<td>6&quot;</td>
<td>10&quot;</td>
<td>NORTH END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>B</td>
<td>4&quot;-LSL</td>
<td>LOW LEVEL</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>NORTH END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>C</td>
<td>4&quot;-BULK</td>
<td>BULK</td>
<td>4&quot;</td>
<td>4&quot;</td>
<td>NORTH END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>D</td>
<td>20&quot; MANWAY</td>
<td>MANWAY</td>
<td>4&quot;</td>
<td>20&quot;</td>
<td>EAST END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>E</td>
<td>3&quot;-AC</td>
<td>HM PROBE</td>
<td>3&quot;</td>
<td>3&quot;</td>
<td>EAST END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>F</td>
<td>18&quot;</td>
<td>FROM EFFLUENT MONITORING TANK #1</td>
<td>4&quot;</td>
<td>18&quot;</td>
<td>SOUTH END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
<tr>
<td>G</td>
<td>28&quot;-TANK-OBT-HOPPE</td>
<td>EFFLUENT TO METRO</td>
<td>4&quot;</td>
<td>28&quot;</td>
<td>NORTH END</td>
<td>TBD FL</td>
<td>FL</td>
</tr>
</tbody>
</table>

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- Tank manufacturer to install nozzle as low as possible on tank sidewall to avoid erosion of flange and flange cover.
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- Refer to "Nozzle details" sheet M-19.
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- Nozzle nipples shall be provided with gaskets and blind flanges provided by tank manufacturer.
- All nozzles installed are from tank bottom to contour of nozzle, unless otherwise noted.
- Tank top manholes and tie-off points not shown for clarity.
NOTES:

1. REFER TO THE PROCESS FLOW DIAGRAM FIGURES. THIS FIGURE IS TYPICAL FOR TWO EFFLUENT MONITORING TANKS.

2. REFER TO THE PROJECT SPECIFICATIONS FOR TANK, PUMP, AND VALVE SIZES AND NUMBER OF SECTIONS.

3. EFFLUENT MONITORING TANKS AND ASSOCIATED PUMPS TO BE IN REVERSE CIRCUIT OF MACHINES FOR SUMMER AND WINTER OPERATION.

4. LOCATE CHEMICAL FEED SYSTEM VALVE AND BY-PASS IN TOP OF TANK.

INTERLOCKS:

REFER TO SHEET 0-2

HONEYWELL INTERNATIONAL, INC.

WATER TREATMENT PLANT

TOWN OF CAMILLUS, NEW YORK

PRELIMINARY NOT FOR CONSTRUCTION

DATE: 03/12/01

IN CHARGE OF: JAB

DESIGNED BY: ZDL CHECKED BY: ZDL

DRAWN BY: LKH

FEBRUARY 2001
Technical Specifications –
Major Equipment