



**LEGEND**

- HDPE PIPE
- ⊗ SURFACE DISCHARGE POINTS
- VALVE

0 (feet) 200  
SCALE

**TANGIPAHOA LANDFILL STORM WATER PUMPING SYSTEM HYDROLOGY**

1. Pump from North Pond to Borrow Only  
 8"Ø=1100 ft 1400 gpm @ 9 fps 2.52 ft/100 ft  
 10"Ø=1200 ft 1400 gpm @ 6.5 fps 0.78 ft/100 ft

|  |                 |
|--|-----------------|
| Suction lift                                   | 10 ft           |
| 8"Ø 1400 gpm @ 9 fps x 2.52 ft/100 ft x 1100   | 27.92           |
| 10"Ø 1400 gpm @ 6.5 fps x .78 ft/100 ft x 1200 | 9.36            |
| 8" wye .42 x v2/2g = .42 x 81/64 = .42 x 1.26  | 0.53            |
| 8" ch.va. 1.4 x 1.26                           | 1.76            |
| 8" b.f.va. .63 x 1.26                          | 0.79            |
| exit =   | 1.26            |
| <b>Total =</b>                                 | <b>51.42 ft</b> |

2. Pump from North Pond to South Pond and South Pond to Borrow @ same time.

|   |                 |
|---|-----------------|
| Suction lift                              | 10 ft           |
| 8"Ø 1400 gpm @ 9 fps x 2.52 ft/100 x 1160 | 29.23           |
| <b>Total =</b>                            | <b>39.23 ft</b> |

|  |                  |
|--|------------------|
| Suction lift                               | 10 ft            |
| 4"Ø 350 gpm @ 9 fps x 5.75 ft/100 x 950    | 54.62            |
| <b>Total =</b>                             | <b>64.62 ft</b>  |
| 10"Ø 1750 gpm @ 7 fps x 1.35 ft/100 x 1200 | 16.20 ft         |
| 8"Ø/10"Ø                                   | Total = 55.43 ft |
| 4"Ø/10"Ø                                   | Total = 80.82 ft |

3. Pump from North Pond to Borrow pit & South Pond to Borrow.

|  |                 |
|--|-----------------|
| 8" Suction lift                          | 10 ft           |
| 8" 1400 gpm @ 9 fps x 2.52 ft/100 x 1100 | 27.72           |
| <b>Total =</b>                           | <b>37.72 ft</b> |

|  |                 |
|--|-----------------|
| 4" Suction lift                        | 10 ft           |
| 4" 350 gpm @ 9 fps x 5.75 ft/100 x 950 | 54.62           |
| <b>Total =</b>                         | <b>64.62 ft</b> |

|   |           |
|---|-----------|
| 10" 1750 gpm @ 7 fps x 1.35 ft/100 x 1200 | 16.20 ft  |
| 8"Ø/10"Ø                                  | 53.92 ft. |
| 4"Ø/10"Ø                                  | 70.82 ft. |

NOTE: Maximum Pressure: 35 psi

**DAMMON ENGINEERING, INC.**  
**EMMETT DAMMON**

**ARCHITECT ROBERT WILTSE**

1095 FLORIDA AVENUE  
 SLIDELL, LA. 70458  
 985-649-5832

WEBSITE:  
 WWW.DAMMONENGINEERING.COM

EMAIL:  
 DAMMONENG@BELLSOUTH.NET

ARCHITECTURE  
 ENGINEERING  
 STUDIES  
 PLANNING  
 INVESTIGATION  
 EXPERT WITNESS

**TANGIPAHOA STORMWATER PUMPING SYSTEM**

TANGIPAHOA PARISH, LOUISIANA

**PLAN**

REV:

SCALE: AS NOTED

JOB#: 1964

DATE: 5-09-08

SHEET 1

**C-1**

OF 2