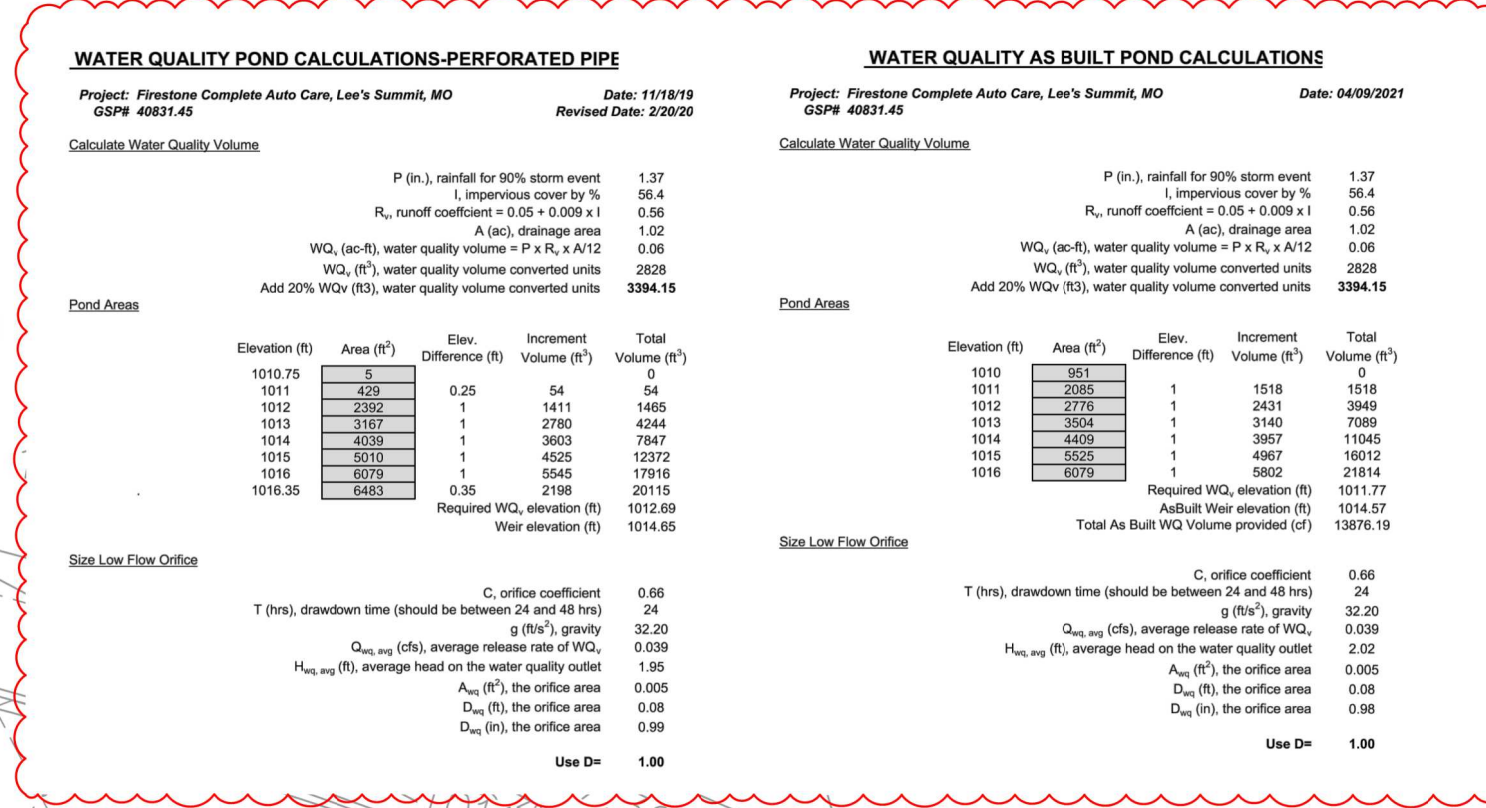
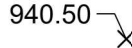
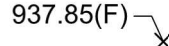
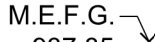
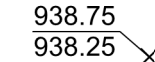




| LEGEND                                                                              |                                          |
|-------------------------------------------------------------------------------------|------------------------------------------|
|    | PROPERTY LINE                            |
|  | BUILDING LINE                            |
|  | EXISTING MAJOR CONTOUR                   |
|  | EXISTING MINOR CONTOUR                   |
|  | MAJOR CONTOUR                            |
|  | MINOR CONTOUR                            |
|  | STORM PIPE                               |
|  | HEADWALL                                 |
|  | STORM MANHOLE                            |
|  | AREA INLET                               |
|  | CURB INLET                               |
|  | STORM CLEANOUT                           |
|  | SPOT ELEVATION                           |
|  | FLUSH ELEVATION                          |
|  | MATCH EXISTING FINISH<br>GRADE ELEVATION |
|  | CURB TOP/BOTTOM ELEVATIONS               |
|  | FLOW ARROW                               |

| <u>STORM STRUCTURE ABBREVIATIONS</u> |                   |                       |
|--------------------------------------|-------------------|-----------------------|
| (SCI)                                | SINGLE CURB INLET | DETAIL 06, SHEET C901 |
| (JB)                                 | JUNCTION BOX      | DETAIL 09, SHEET C902 |
| (HW)                                 | HEADWALL          | DETAIL 07, SHEET C901 |
| (OS)                                 | OUTLET STRUCTURE  | DETAIL 08, SHEET C901 |

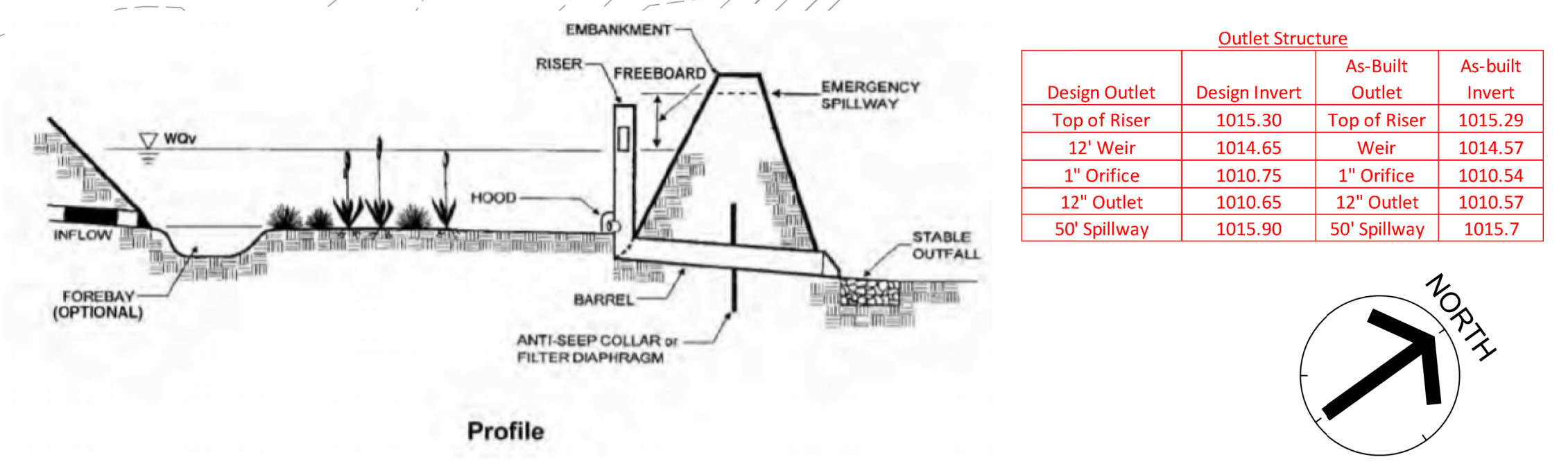
**NOTES:**

1. FOR SITE PREPARATION AND GEOTECHNICAL RECOMMENDATIONS, REFER TO INTERTEK PSI GEOTECHNICAL REPORT 03381947, DATED 7/24/2019.
2. ITEMS IN RED AND CLOUDED IN RED INDICATE AS BUILT CONDITIONS.

| POND CONTOUR AREAS - |                        | ASBUILT                                     |
|----------------------|------------------------|---------------------------------------------|
| ASBUILT ELEVATION    | ASBUILT CAD AREA (SF.) | ASBUILT CAD VOLUME (CF.)<br>AVG. DEN METHOD |
| 1010.00              | 951                    | 0                                           |
| 1011.00              | 2085                   | 1,518                                       |
| 1012.00              | 2776                   | 3,949                                       |
| 1013.00              | 3504                   | 7,089                                       |
| 1014.00              | 4409                   | 11,045                                      |
| 1015.00              | 5525                   | 16,012                                      |
| 1016.00              | 6079                   | 21,814                                      |

| POND CONTOUR AREAS - DESIGN |                       |                                            |
|-----------------------------|-----------------------|--------------------------------------------|
| DESIGN ELEVATION            | DESIGN CAD AREA (SF.) | DESIGN CAD VOLUME (CF.)<br>AVG. END METHOD |
| 1010.75                     | 5                     | 0                                          |
| 1011.00                     | 429                   | 54                                         |
| 1012.00                     | 2392                  | 1,465                                      |
| 1013.00                     | 3167                  | 4,244                                      |
| 1014.00                     | 4039                  | 7,847                                      |
| 1015.00                     | 5010                  | 12,372                                     |
| 1016.00                     | 6079                  | 17,916                                     |
| 1016.25                     | 6492                  | 20,115                                     |

| Detention Pond Analysis |               |                 |                                        |                                          |                    |                      |                  |                    |
|-------------------------|---------------|-----------------|----------------------------------------|------------------------------------------|--------------------|----------------------|------------------|--------------------|
| Recurrence Interval     | Design Runoff | As-Built Runoff | Design Maximum Water Surface Elevation | As-Built Maximum Water Surface Elevation | Design Top of Berm | As-Built Top of Berm | Design Freeboard | As-Built Freeboard |
| 2 Year                  | 0.043         | 0.04            | 1013.42                                | 1012.64                                  | 1016.45            | 1016.00              | 3.03             | 3.36               |
| 10 Year                 | 0.060         | 0.05            | 1014.62                                | 1014.00                                  | 1016.45            | 1016.00              | 1.83             | 2.00               |
| 100 Year                | 3.021         | 1.02            | 1015.38                                | 1015.00                                  | 1016.45            | 1016.00              | 1.07             | 1.00               |
| 100 Year - Clogged      | 1.041         | 0.30            | 1015.91                                | 1015.71                                  | 1016.45            | 1016.00              | 0.54             | 0.29               |



**Figure 8.18 - Schematic of an Extended Dry Detention Basin**  
(Adapted from Maryland Department of Environment, 2000)

