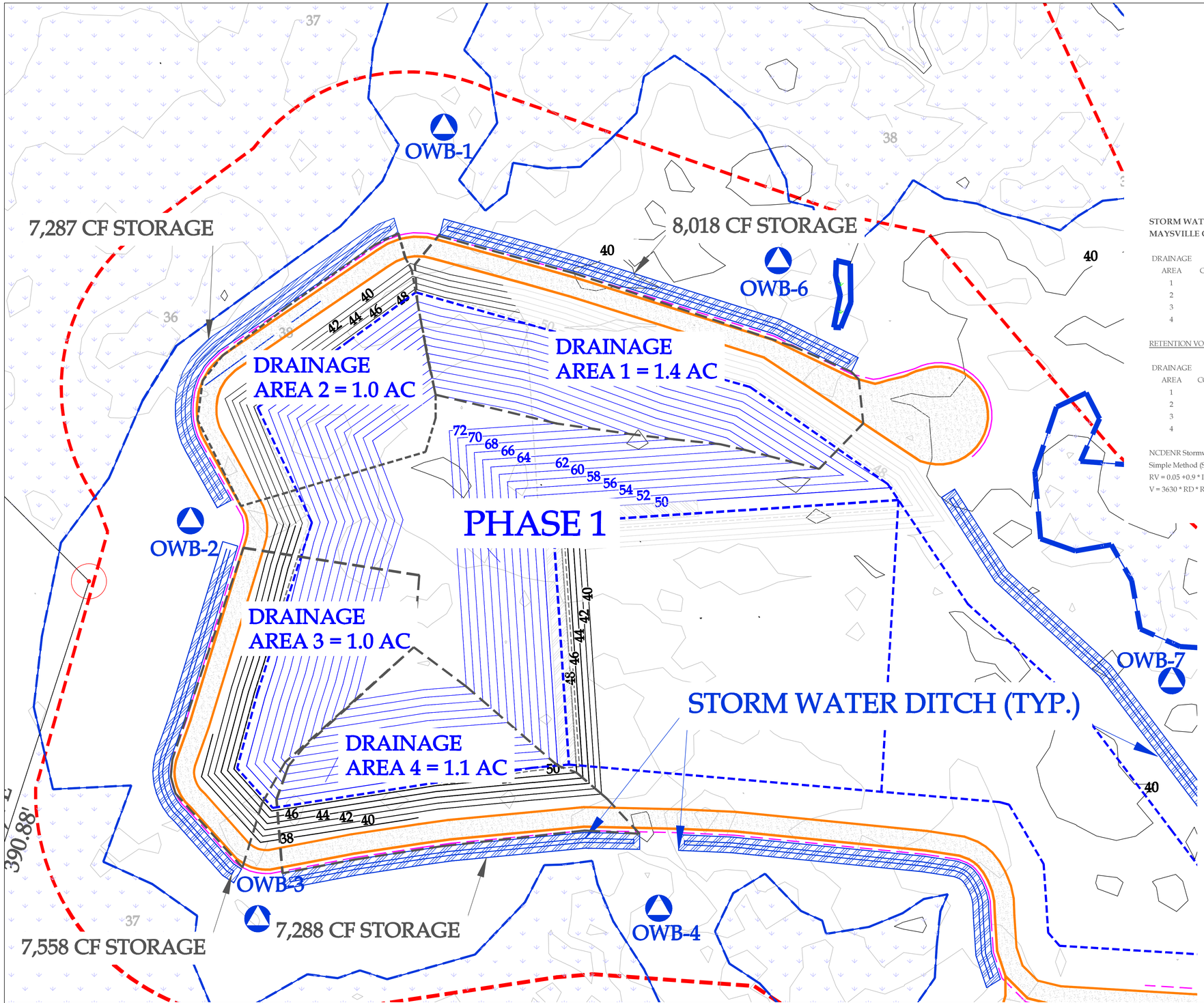


LEGEND

- EXISTING CONTOUR (1-FT INTERVAL)
- PROPOSED CONTOUR (2-FT INTERVAL)
- ACOE APPROVED WETLAND LIMITS
- FACILITY BOUNDARY
- OWB-8 WELL LOCATION
- LINER LIMITS / PHASE LIMITS

STORM WATER STORAGE
MAYSVILLE C&D LANDFILL, PHASE 1

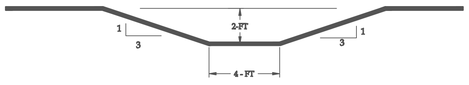
DRAINAGE AREA	RUNOFF COEFFICIENT, C	DRAINGE AREA (AC)	IMPERVIOUS AREA (AC)	IMPERVIOUS FRACTION (IA)	HUBERT, NC (NOAA) RAINFALL INTENSITY I (IN/HR), 25-YR	PEAK DISCHARGE (CFS)
1	0.35	1.4	0.15	0.11	8.55	4.19
2	0.35	1	0.15	0.15	8.55	2.99
3	0.35	1	0.15	0.15	8.55	2.99
4	0.35	1.1	0.15	0.14	8.55	3.29

RETENTION VOLUME REQUIRED PER STORM EVENT

DRAINAGE AREA	RUNOFF COEFFICIENT, RV	DRAINGE AREA (AC)	1-IN VOLUME REQUIRED (CF)	2-IN VOLUME REQUIRED (CF)	4-IN VOLUME REQUIRED (CF)	6-IN VOLUME REQUIRED (CF)	**8-IN VOLUME REQUIRED (CF)**	**VOLUME PROVIDED (CF)**
1	0.15	1.4	744	1,491	2,977	4,465	**5,953**	**8,013**
2	0.19	1	672	1,345	2,686	4,029	**5,372**	**7,287**
3	0.19	1	672	1,345	2,686	4,029	**5,372**	**7,558**
4	0.17	1.1	690	1,382	2,759	4,138	**5,518**	**7,288**

NCDENR Stormwater BMP Manual
Simple Method (Schueler, 1987)
RV = 0.05 +0.9 * IA
V = 3630 * RD * Rv * A

BASED ON NCDENR STORMWATER BMP MANUAL USING SIMPLE METHOD (SHULER, 1987), THE STORMWATER DITCHES SURROUNDING PHASE 1 OF THE C&D LANDFILL WILL ADEQUATELY STORE RUNOFF FROM THE 25-YR, 24-HR STORM EVENT.



TYPICAL STORMWATER RETENTION DITCH

N

SCALE IN FEET
50 25 12.5 0 50

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

MAYSVILLE C&D LANDFILL
PHASE 1 PERMIT APPLICATION

GREEN RECYCLING SOLUTIONS, LLC — MAYSVILLE, NC

DRAWN BY DWW | PROJECT ENGINEER DWW
DESIGN ENGINEER DWW | PROJECT MANAGER DWW

LICENSE #C-2206
ERM NC, INC.
8520 CORPORATE CENTER DRIVE, SUITE 200
CHARLOTTE, NORTH CAROLINA 28226
(704) 545-8345

NOT FOR CONSTRUCTION

PHASE 1
STORM WATER PLAN

SCALE 1"=50' | DATE JUNE 2013
PROJECT NO. 0140408 | AutoCAD 2007 POTENTIOMETRIC MAP.DWG

DRAWING NO. 18
REV. NO.
SHEET 18 OF 21