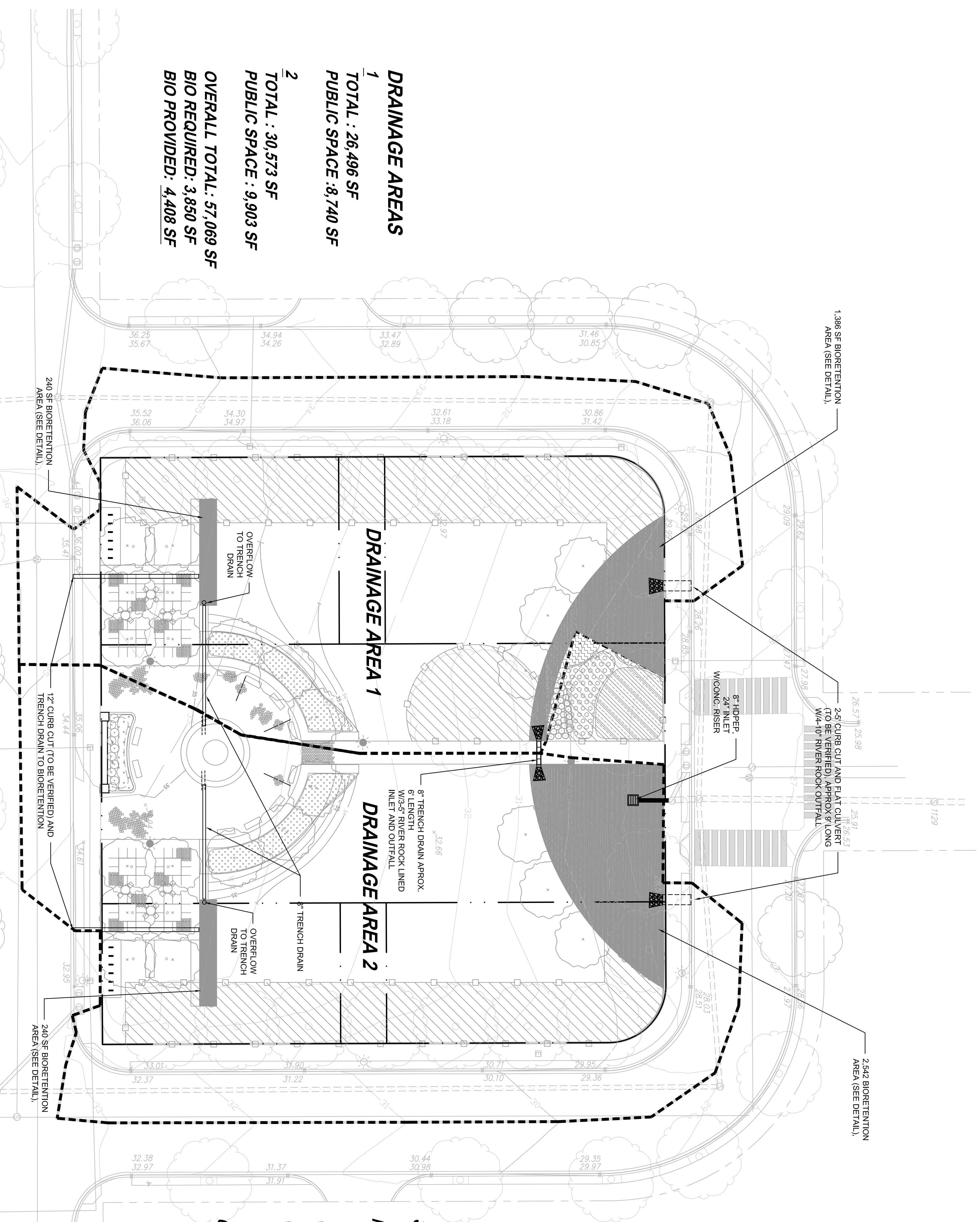


**BIORETENTION NOTES**

- 1. Pea Gravel Bed**  
The gravel layer shall consist of double washed pea gravel  $\frac{1}{4}$  to  $\frac{1}{2}$  inch in size, meeting ASTM D-448.
- 2. Sand Bed**  
A minimum 6-inch fine aggregate sand layer shall be provided below the soil filter/planting media. ASTM C33 Fine Aggregate Concrete Sand is required. Manufactured sand or stone dust is not acceptable.
- 3. Soil Filter/Planting Media**  
The planting media shall consist of 1/3 peat, soil, or sand, 1/3 compost and 1/3 topsoil. The peat shall be coarse grade horticultural peat. The compost shall be high grade compost free of stones and partially composted woody material. The soil shall meet the following minimum criteria: contain no more than 10% clay, 30-55% silt and 35-60% sand. The soil shall be free of stones, stumps, roots or other similar objects larger than 2 inches. The first layer of the planting media shall be lightly tilled to mix it into the sand layer, so not to create a definitive boundary. The planting material shall be flooded after placement. Any settlement that occurs shall be filled back to the design elevation.
- 4. Mulch**  
The surface mulch layer will consist of standard fine shredded aged hardwood mulch. The mulch should be applied uniformly to a depth of 2 to 3 inches. Yearly replenishment may be necessary.
- 5. Plant Materials**  
Refer to sheet L-100 for bioretention planting schedule.



**DRAINAGE AREAS**

1  
TOTAL : 26,496 SF  
PUBLIC SPACE : 8,740 SF

2  
TOTAL : 30,573 SF  
PUBLIC SPACE : 9,903 SF

OVERALL TOTAL: 57,069 SF  
BIO REQUIRED: 3,850 SF  
BIO PROVIDED: 4,408 SF

**STORMWATER MANAGEMENT VOLUME:**

PROJECT D.A. = 57,069 SF  
INCLUDING 18,643 SF OF D.A. WITHIN PUBLIC SPACE

VOLUME REQUIRED = 1.2" x 57,069 = 5,707 CF

VOLUME PROVIDED = (4,408 SF x 3' MEDIA DEPTH x .33 POROSITY) = 6,567.92 CF  
(4,408 SF x 6" PONDING DEPTH)

6,567.92 CF / 57,069 SF = 1.38" OF RUNOFF MANAGED ON SITE,  
INCLUDING 2,145.57 CF OF RUNOFF FROM PUBLIC SPACE (1.38" x 18,643 SF)