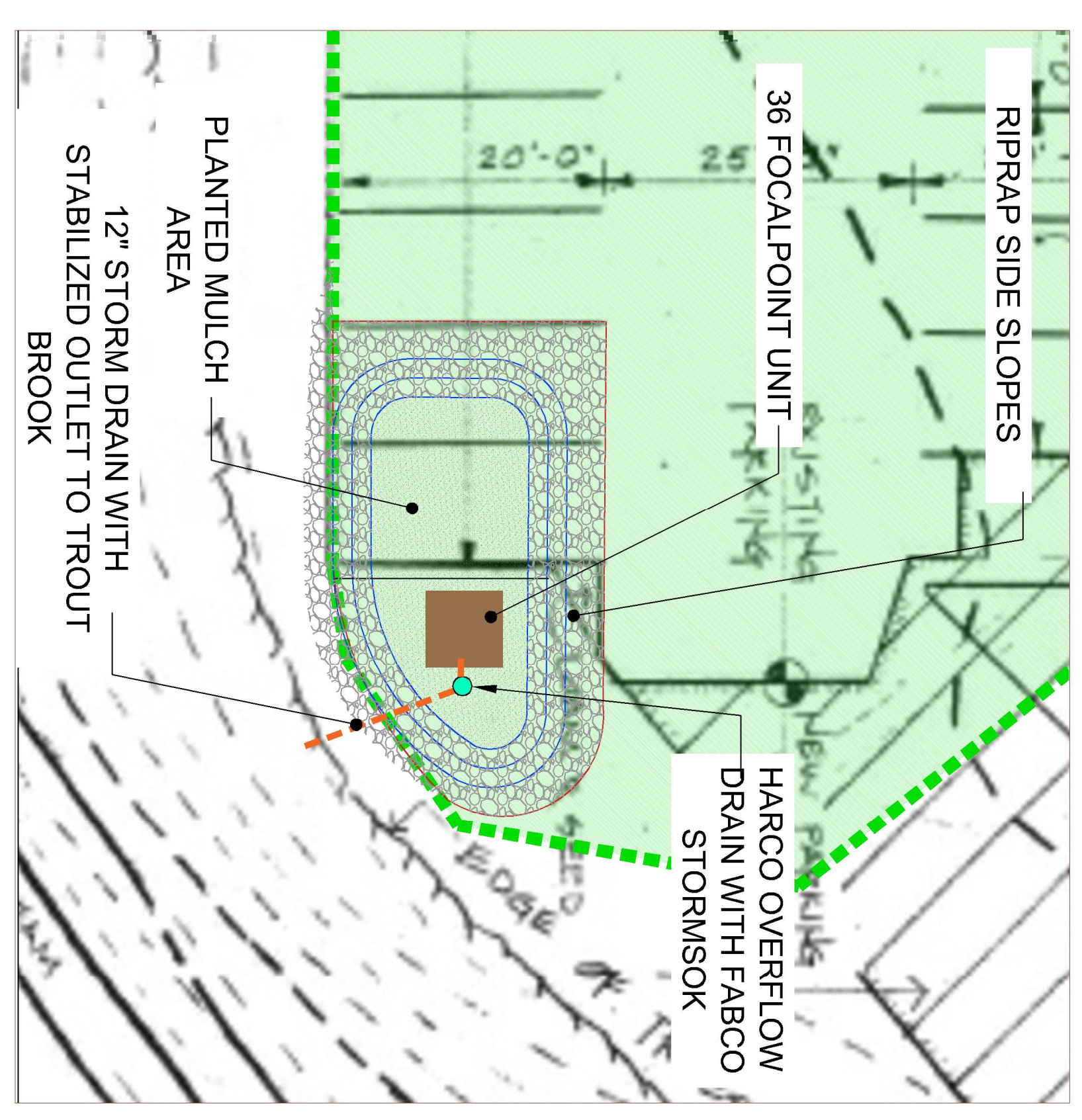


20' SCALE STORMWATER TREATMENT STRATEGY PLAN



CONCEPTUAL PHOTOSIMULATION PLAN



10' SCALE PLAN EXCERPT

FOCALPOINT SIZING AND CALCULATION SHEET

PROJECT: TROUT BROOK - LDS PARKING

PREPARED BY: ROB WOODMAN, PE - FABCO INDUSTRIES

PREPARED FOR: CHRIS BALDWIN, PE - CQSWCD

DATE: JUNE 13, 2014

Based on the goal of treating **0.5" of runoff from impervious areas and 0.2" of runoff from pervious areas**, Fabco Industries has calculated the proposed sizing of the FocalPoint system and the ability of the system to treat the Water Quality Volume (W_{QV}) prior to overflow/ bypass:

- Tributary Impervious Area = 24,650 sf
- Tributary Pervious Area = 6,250 sf
- Water Quality Volume (W_{QV})* = 1,131 cf ---- use **1,131 cf** for water quality goal ----

* The Water Quality Volume is based on treating 0.5" of runoff from impervious areas and 0.2" from pervious areas

Using the *ACT FP and RT Calc version 1.8*, the proposed size of the FocalPoint unit shall be **36 sf** with a minimum ponding volume of **182 cf** above the unit prior to overflow. The chart below summarizes the associated calculation and performance verification.

FocalPoint

ACT FP and RT Calc 1.8

Water Quality Volume and Design Data	Design Unit	Performance
Water Quality Volume (W _{QV})	1,131 cf	1,131 cf
System Configuration	Yes	Yes

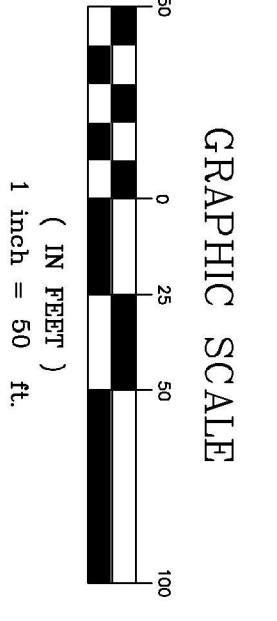
Table 1. Required Conditions

1. Treatment Factor of Safety
2. Footprint Unit Area
3. Storage Volume Above FocalPoint provided
4. Desired Treatment Time
5. Water Quality Volume needed prior to overflow?
6. Infiltration drain within desired limit?
7. Flow in excess of storage volume above

Table 2. System Performance

1. Treatment Factor of Safety
2. Footprint Unit Area
3. Storage Volume Above FocalPoint provided
4. Desired Treatment Time
5. Water Quality Volume needed prior to overflow?
6. Infiltration drain within desired limit?
7. Flow in excess of storage volume above

PRELIMINARY - NOT FOR CONSTRUCTION



REV	DATE	DESCRIPTION	REVISIONS
1	06.17.14	SUBMITTED TO CQSWCD FOR REVIEW	

PROJECT: TROUT BROOK
STORMWATER QUALITY RETROFIT PROJECT
LDS CHURCH, CAPE ELIZABETH, MAINE

SHEET TITLE: FOCALPOINT BIOFILTRATION CONCEPT PLAN

CLIENT: CUMBERLAND COUNTY SOIL AND WATER CONSERVATION DISTRICT

DRAWN: R.M. DATE: JUNE 2014
DESIGNED: R.M. SCALE: 1"=50'
CHECKED: W.S.J. JOB NO: 364
FILE NAME: FocalPoint.dwg

Fabco Industries Inc

SHEET C-1.0