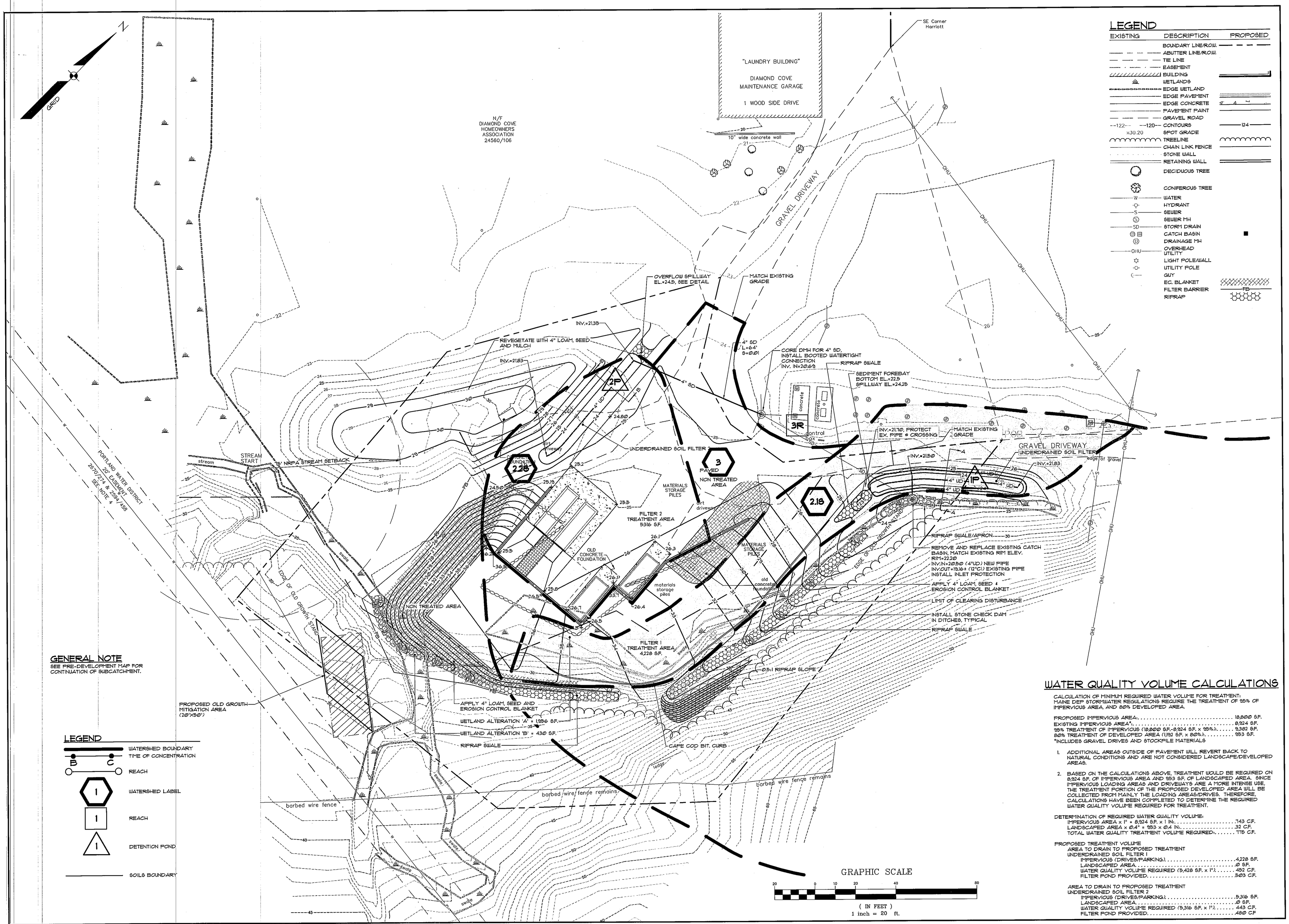

GENERAL NOTE

SEE PRE-DEVELOPMENT MAP FOR CONTINUATION OF SUBCATCHMENT.

LEGEND

- WATERSHED BOUNDARY
- TIME OF CONCENTRATION (B — C)
- REACH
- WATERSHED LABEL (1)
- REACH (1)
- DETENTION POND (1)
- SOILS BOUNDARY

WATER QUALITY VOLUME CALCULATIONS

CALCULATION OF MINIMUM REQUIRED WATER VOLUME FOR TREATMENT:
MAINE DEP STORMWATER REGULATIONS REQUIRE THE TREATMENT OF 95% OF IMPERVIOUS AREA, AND 80% DEVELOPED AREA.

PROPOSED IMPERVIOUS AREA	18,800 SF.
EXISTING IMPERVIOUS AREA*	8,924 SF.
95% TREATMENT OF IMPERVIOUS (18,800 SF.-8,924 SF. x 95%)	9,382 SF.
80% TREATMENT OF DEVELOPED AREA (1182 SF. x 80%)	993 SF.

*INCLUDES GRAVEL DRIVES AND STOCKPILE MATERIALS

1. ADDITIONAL AREAS OUTSIDE OF PAVEMENT WILL REVERT BACK TO NATURAL CONDITIONS AND ARE NOT CONSIDERED LANDSCAPE/DEVELOPED AREAS.
2. BASED ON THE CALCULATIONS ABOVE, TREATMENT WOULD BE REQUIRED ON 8,924 SF. OF IMPERVIOUS AREA AND 953 SF. OF LANDSCAPED AREA. SINCE IMPERVIOUS LOADING AREAS AND DRIVEWAYS ARE A MORE INTENSE USE, THE TREATMENT PORTION OF THE PROPOSED DEVELOPED AREA WILL BE COLLECTED FROM MAINLY THE LOADING AREAS/DRIVES. THEREFORE, CALCULATIONS HAVE BEEN COMPLETED TO DETERMINE THE REQUIRED WATER QUALITY VOLUME REQUIRED FOR TREATMENT.

DETERMINATION OF REQUIRED WATER QUALITY VOLUME:

IMPERVIOUS AREA x 1" = 8,924 SF. x 1 IN.	743 C.F.
LANDSCAPED AREA x 0.4" = 953 x 0.4 IN.	32 C.F.
TOTAL WATER QUALITY TREATMENT VOLUME REQUIRED	775 C.F.

PROPOSED TREATMENT VOLUME

AREA TO DRAIN TO PROPOSED TREATMENT UNDERDRAINED SOIL FILTER 1

IMPERVIOUS (DRIVES/PARKING)	4,228 SF.
LANDSCAPED AREA	0 SF.
WATER QUALITY VOLUME REQUIRED (5,428 SF. x 1")	452 C.F.
FILTER POND PROVIDED	503 C.F.

AREA TO DRAIN TO PROPOSED TREATMENT UNDERDRAINED SOIL FILTER 2

IMPERVIOUS (DRIVES/PARKING)	5,316 SF.
LANDSCAPED AREA	0 SF.
WATER QUALITY VOLUME REQUIRED (5,316 SF. x 1")	443 C.F.
FILTER POND PROVIDED	480 C.F.

STATE OF MAINE
CRAIG A. BURGESS
No. 12838
LICENSED PROFESSIONAL ENGINEER
2-5-14

REV:	BY:	DATE:	STATUS:
C	OAM	09-5-14	SUBMITTED TO DEP
B	OAM	08-18-14	ISSUED FOR PRELIMINARY REVIEW
A	OAM	02-05-14	ISSUED FOR CLIENT REVIEW

THIS PLAN SHALL NOT BE MODIFIED WITHOUT WRITTEN PERMISSION FROM SEBAGO TECHNICS, INC. ANY ALTERATIONS, AUTHORIZED OR OTHERWISE, SHALL BE AT THE USER'S SOLE RISK AND WITHOUT LIABILITY TO SEBAGO TECHNICS, INC.

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PROJECT NO.	FIELD BOOK	DESIGN	CHKD	DRAWN
09405	.	OAM	OAM	JAR

POST-DEVELOPMENT WATERSHED/ TREATMENT PLAN
OF: GREAT DIAMOND ISLAND NATURAL TRANSFER AND RECYCLING FACILITY
GREAT DIAMOND ISLAND
PORTLAND, MAINE
FOR: CITY OF PORTLAND
55 PORTLAND STREET
PORTLAND, MAINE 04101

DATE	SCALE
01-29-14	NTS

SHEET 8 OF 8

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