EROSION CONTROL NOTES

GENERAL:

THE DRAWINGS DEPICT THE REQUIRED SOIL EROSION CONTROL MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE CONSTRUCTION SITE IN SUCH A MANNER THAT:

1. SOIL EROSION IS KEPT TO A MINIMUM.
2. NO SEDIMENT LEAVES THE CONSTRUCTION SITE PROPER.
3. ALL POSSIBLE MEASURES ARE EMPLOYED TO PREVENT SEDIMENT FROM ENTERING DRAINAGE COURSES AND WETLANDS EVEN BEYOND THE DETAILS SHOWN ON THIS PLAN IF NECESSARY.

1. ALL EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MAINE EROSION AND SEDIMENT CONTROL BMPS PUBLISHED BY THE BUREAU OF LAND AND WATER QUALITY, MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION, OCTOBER 2016.

2. THE CONTRACTOR IS RESPONSIBLE FOR ALL FINES RESULTING FROM EROSION OR SEDIMENTATION FROM THE SITE TO SURROUNDING PROPERTIES, WATERBODIES, OR WETLAND AS A RESULT OF THIS PROJECT.

3. LOAM AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER DISTURBANCE, BUT NO LONGER THAN 7 DAYS. LOAM AND SEED ANY DISTURBED AREA WITHIN 75' OF WETLANDS OR WATERBODEIS WITHIN 48 HOURS OR PRIOR TO AND STORM EVENT. USE WINTER SEED RATES AND SPECIFICATIONS IF APPROPRIATE.

4. INSPECT SOIL EROSION MEASURES WEEKLY AND AFTER SIGNIFICANT STORM EVENTS. MAKE ALL NECESSARY REPAIRS TO FACILITIES AS SOON AS POSSIBLE, BUT NO LONGER THAN 2 DAYS. CLEAN AND RESET SILT FENCES AND STONE CHECK DAMS WHICH ACCUMULATE SEDIMENT AND DEBRIS.

5. PROTECT AND STABILIZE ALL AREAS NOT SCHEDULED FOR EROSION PREVENTION OR STABILIZATION BUT THAT SHOW SIGNS OF EROSION. NOTIFY OWNER OF ANY SIGNIFICANT EROSION PROBLEM.

6. APPLY MULCH TO BARE SOILS WITHIN 7 DAYS OF INITIAL DISTURBANCE OF SOILS, WITHIN 48 HOURS IF WITHIN 75' OF WETLAND OR WATERBODY, PRIOR TO ANY RAIN EVENT, OR PRIOR TO ANY WORK SHUTDOWN LASTING MORE THAN ONE DAY.

7. TEMPORARILY SEED WITHIN 7 DAYS ANY AREA WHICH WILL BE LEFT DISTURBED AND UNWORKED FOR MORE THAN 14 DAYS WITH THE TEMPORARY SEED MIX LISTED BELOW. IF AREA IS WITHIN 75' OF A WETLAND OR WATERBODY, SEED WITHIN 48 HOURS. PERMANENTLY SEED ANY AREA WHICH CAN BE LOAMED AS SOON AS POSSIBLE WITH THE PERMANENT SEED MIX LISTED BELOW. DO NOT USE PERMANENT SEED MIX AFTER SEPTEMBER 15.

8. MULCH ALL AREAS SEEDED SO THAT SOIL IS NOT VISIBLE THROUGH THE MULCH REGARDLESS OF THE APPLICATION RATE. DURING THE GROWING SEASON (APRIL 15 - SEPT. 30) USE EROSION CONTROL MESH (OR MULCH AND NETTING) ON:
   - -THE BASE OF GRASSED WATERWAYS
   - -SLOPES STEEPER THAN 15%
   - -WITHIN 100 ft. OF STREAMS AND WETLANDS

   BETWEEN OCT. 1 AND APRIL 14 USE EROSION CONTROL MESH (OR MULCH AND NETTING) ON:
   - -SIDE SLOPES OF GRASSED WATERWAYS
   - -SLOPES STEEPER THAN 8%

9. PLACE AND GRADE LOAM IN A REASONABLY UNIFORM MANNER. WORK LIME AND FERTILIZER INTO THE SOIL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. CONTINUE TILLAGE UNTIL A REASONABLY UNIFORM SEED BED IS PREPARED. REMOVE FROM SURFACE ALL STONES LARGER THAN 2" AND ALL OTHER UNSUITABLE MATERIAL. LIME AND FERTILIZER SHOULD BE MIXED INTO SOIL PRIOR TO ROLLING EXCEPT IF INCLUDED IN HYDROSEED MIXTURE. PERMANENT STABLILIZATION OF REVEGETATED AREAS IS CONSIDERED AS 90% CATCH.

10. ALL CATCH BASINS, NEW OR EXISTING, THAT MAY RECEIVE RUNOFF FROM DISTURBED AREAS MUST BE PROTECTED BY INSTALLING AND MAINTAINING SILT SACKS DURING CONSTRUCTION.

TOPSOIL:

1. SUITABLE TOPSOIL SALVAGED FROM SITE OR SCREENED, LOOSE AND FRIABLE SANDY LOAM OR LOAM AS DEFINED BY THE USDA SOIL CONSERVATION SERVICE CLASSIFICATION SYSTEM, FREE FROM ADMIXTURE OF SUBSOIL, REFUSE, LARGE STONES, CLODS, ROOTS, WEEDS, RHIZOMES OR OTHER UNDESIREABLE FOREIGN MATTER AS DETERMINED BY THE INSPECTING AUTHORITY. CONTRACTOR SHALL SUBMIT REPORTS OF LOAM TEST RESULTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY FOR TOPSOIL FROM DIFFERENT SOURCES PRIOR TO PLACING. THE COST OF TESTING SHALL BE INCIDENTAL TO THE COST OF TOPSOIL. TOPSOIL SHALL MEET THE FOLLOWING SPECIFICATIONS:

2. MATERIAL

   SAND - 0.08 IN. TO 0.002 IN. DIAMETER (% BY VOLUME) . . . . . 45 - 75
   SILT - 0.002 IN. TO 0.00008 IN. DIAMETER (% BY VOLUME) . . . 20 - 40
   CLAY - LESS THAN 0.00008 IN. DIAMETER (% BY VOLUME) . . . . 5 - 15

   ORGANICS (SHALL MEET THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION 717.09 PEAT HUMUS) (% BY VOLUME) . 10 - 20

   NUTRIENTS:
   CALCIUM (CA) (% SATURATION) . . . . . 60 - 80
   MAGNESIUM (MG) (% SATURATION) . . . . . 10 - 25
   POTASSIUM (K) (% SATURATION) . . . . . 2.1 - 3.0
   PHOSPHORUS (P) (POUNDS/ACRE) . . . . . 10 - 40
   PH . . . . . 6.0 - 6.5

   PERMEABILITY (INCHES PER HOUR) . . . . . 3 - 10

   MAXIMUM STONE SIZE (INCHES) 3/4

SEEDING:

USE PERMANENT SEED MIXES AND RATES BETWEEN 5/15 AND 9/30. USE TEMPORARY SEED MIXES FOR PERIODS LESS THAN 12 MONTHS. IF USING TEMPORARY SEED MIXES AND RATES BETWEEN 10/1 AND 5/14, RE-SEED WITH PERMANENT SEED MIX AFTER 5/15.

PERMANENT SEED:

MDOT 717.03(a) METHOD NUMBER 3

TEMPORARY SEED:

OATS	80.00 LBS/ACRE	4/01 - 5/14
ANNUAL RYEGRASS	40.00 LBS/ACRE	
SUDANGRASS	40.00 LBS/ACRE	5/15 - 8/14
ANNUAL RYEGRASS	80.00 LBS/ACRE	5/15 - 9/14
WINTER RYE	112.00 LBS/ACRE	9/15 - 9/30
WINTER RYE (W/ MULCH COVER)	112.00 LBS/ACRE	10/01 - 3/31

LIME AND FERTILIZER:

APPLY GROUND LIMESTONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (138 POUNDS PER 1000 SQUARE FEET). APPLY FERTILIZER (10-20-20) AT A RATE OF 800 POUNDS PER ACRE (18.4 POUNDS PER 1000 SQUARE FEET).

MULCH:

STRAW OR HAY (ANCHORED)	70 - 90 LBS	PROTECTED AREAS
STRAW OR HAY (ANCHORED)	185 - 275 LBS	WINDY AREAS
SHREDDED OR CHOPPED	185 - 275 LBS	
JUTE MESH	AS REQUIRED	MODERATE TO HIGH VELOCITY AREAS &
EXCELSIOR MAT	AS REQUIRED	STEEP SLOPES

MULCH ANCHORING

PEG AND TWINE	LIQUID ASPHALT
MULCH NETTING	WOOD CELLULOSE FIBER
ASPHALT EMULSION	CHEMICAL TACK

HOUSEKEEPING NOTES

1. THIS PROJECT IS LOCATED IN THE CASCO BAY WATERSHED. PROTECTION OF THE GROUNDWATER QUALITY IS ENSURED BY HAVING GOOD HOUSEKEEPING PRACTICES AND MAINTENANCE OF THE STORMWATER SYSTEMS. SPILL PREVENTION MUST BE INCORPORATED INTO THE PLAN. OWNERS AND ALL CONTRACTORS INVOLVED IN THE PROJECT SHOULD FOLLOW THE FOLLOWING STEPS.

   SUBCONTRACTORS, LAND OWNER AND BUSINESS OCCUPANTS SHOULD BE MADE AWARE OF POSSIBLE GROUNDWATER AND SURFACE WATER CONTAMINATION BASED ON THEIR ACTIONS.

2. DURING CONSTRUCTION:

   FOLLOW THE EROSION CONTROL MEASURES OUTLINED ON THE PLANS.

   DEVELOP A WASTE HANDLING PROGRAM THAT IDENTIFIES POTENTIAL CONTAMINATES THAT COULD BE INTRODUCED TO THE AQUIFER. FOLLOW HAZARDOUS WASTE RULES IF ANY ITEMS USED ARE CONSIDERED A HAZARDOUS WASTE. IT IS CRITICAL TO THE SITE THAT UNCONTROLLED RELEASES BE PREVENTED.

   THIS SITE MAY REQUIRE DEWATERING OF TRENCHES. DURING CONSTRUCTION, MONITOR STORMWATER RUNOFF FROM THE EQUIPMENT AND GROUND AREAS TO MINIMIZE CONTAMINATION OF GROUNDWATER.

   THE SPILLING OF PRODUCTS SUCH AS SMALL ENGINE FUEL, CLEANING PRODUCTS AND PAINTS NEED TO BE CLEANED UP.

   IDENTIFY ANY PRODUCTS THAT IF SPILLED WILL CREATE CONTAMINATION OF THE GROUNDWATER.

   MAINTAIN A LIST OF THE MATERIALS AND KEEP THE MSDS SHEETS AVAILABLE TO ALL EMPLOYEES.

   OIL ABSORBENT PADS SHOULD BE USED WHILE REFUELING EQUIPMENT. KEEP ABSORBENT PADS AVAILABLE FOR USE IN CLEAN UP OF PETROLEUM.

   POST THE NAMES AND CONTACT INFORMATION FOR THE EMPLOYEE RESPONSIBLE FOR ENVIRONMENTAL MATTERS AND THE NAMES AND CONTACT INFORMATION OF COMPANIES TO BE CALLED IN THE EVENT OF A SPILL.

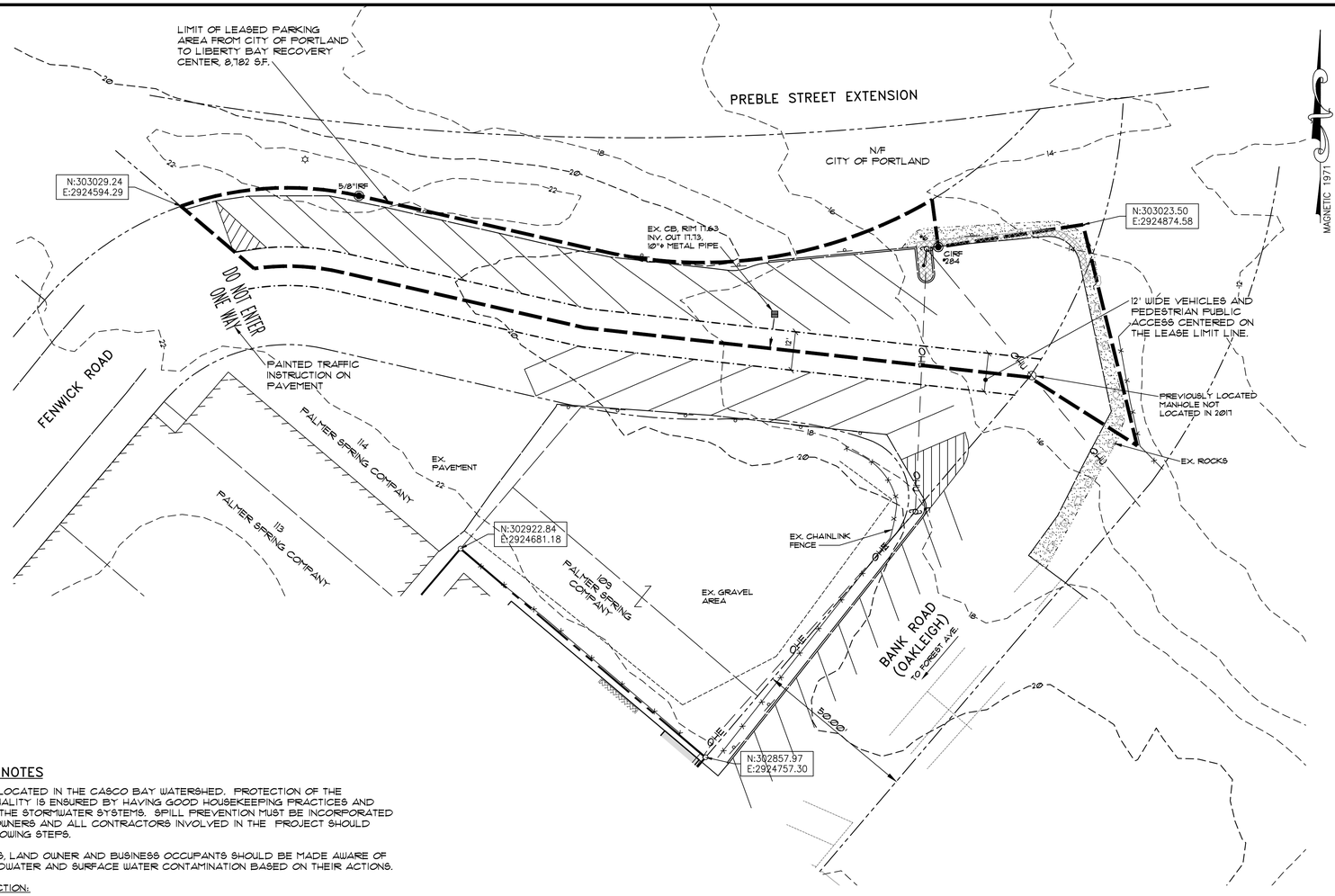
3. POST CONSTRUCTION:

   CONTINUE TO FOLLOW ALL GUIDELINES OUTLINED FOR CONSTRUCTION.

   THE USE OF FERTILIZERS AND PESTICIDES SHOULD BE DONE CAUTIOUSLY AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

   THE MAINTENANCE OF THE LANDSCAPING AND PARKING LOTS SHOULD INCLUDE THE SWEEPING OF THE PARKING LOTS AND REMOVAL OF THE MATERIALS THAT MAY CAUSE DUST.

   AS PART OF EMPLOYEE TRAINING, INFORM EMPLOYEES OF THE PROCEDURES FOR RESPONSE TO ENVIRONMENTAL MATTERS.



FENWICK ROAD PAVEMENT PLAN

SCALE: 1"=20'

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

LEGEND

EXISTING		PROPOSED	
	PROPERTY LINE		LEASED PARKING BOUNDARY
	ABUTTERS PROPERTY		CITY OF PORTLAND EASEMENT
	EDGE OF PAVEMENT		
	CURB		
OHU	OVERHEAD UTILITY		
OHE	OVERHEAD ELECTRICAL		
	CATCH BASIN		
	POSSIBLE DRAIN MANHOLE		
	UTILITY POLE		
	UTILITY POLE W/ GUY WIRE		
	SIGN		
	CHAINLINK FENCE		
	LIGHT POLE		
	IRON PIPE OR ROD FOUND		
-16-	CONTOUR		
	BUILDING		
	EDGE OF GRAVEL		
	LOAM AND SEED		
	CRUSHED STONE PAVEMENT EDGE		

PINKHAM & GREER
CIVIL ENGINEERS
28 VAUGHAN AVE, PORTLAND, ME 04103
TEL: (207) 781-5242 FAX: (207) 781-4142

STATE OF MAINE — THOMAS S GREER No. 4286 — REGISTERED PROFESSIONAL ENGINEER — 4/24/18

REV.	DATE	DESCRIPTION
5	4/24/18	RECORD DRAWING PER FIELD CONDITIONS
4	11/3/17	REVD PER FINAL REVIEW
3	9/21/17	REVD PER STAFF REVIEW
2	9/20/17	REVD PER STAFF REVIEW
1	7/31/17	REVD PER STAFF REVIEW

LIBERTY BAY RECOVERY CENTER
835 FOREST AVENUE
PORTLAND, ME 04103

DRN BY: RJS
DESG BY: TSG
CHK BY:
SCALE: AS SHOWN
DATE: APRIL 10, 2017
PROJECT: 17123

SITE IMPROVEMENTS
343 FOREST AVENUE
PORTLAND, MAINE

PARKING PLAN

C2.1

MAP/LOT MAP 112 / BLOCK D / LOT 4