

RECOMMENDED FINAL SEEDING PROCEDURE:

SEED BED PREPARATION:
 LIME: 50 LBS/1000 SQ.FT.
 FERTILIZER: (10-20-10) 30 LBS/1000 SQ.FT.
 MULCH: HAY MULCH AT 40 LBS/1000 SQ.FT. FOR SLOPES LESS THAN 3:1
 MULCH: HAY MULCH AT 70 LBS/100 SQ.FT. FOR SLOPES GREATER THAN 3:1

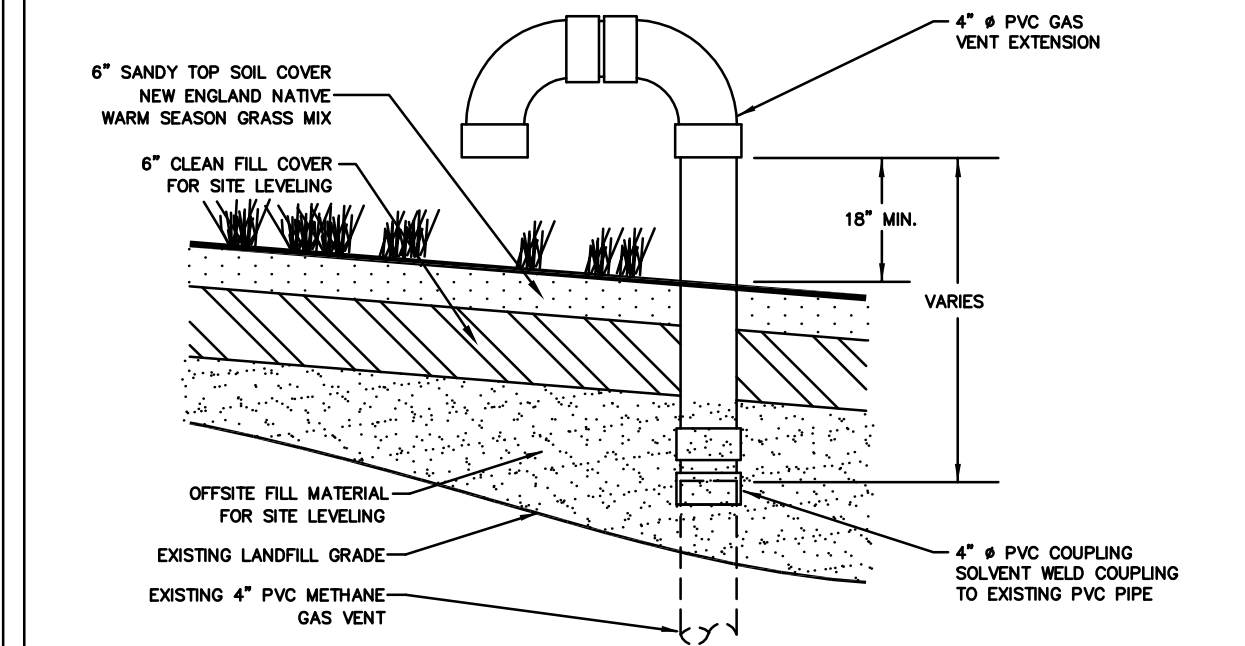
SEED MIX:
 NEW ENGLAND NATIVE WARM SEASON GRASS MIX
 DISTRIBUTED BY NEW ENGLAND WETLAND PLANTS, INC.
 820 WEST STREET, AMHERST, MA.

GRADING NOTES:

- HORIZONTAL AND VERTICAL CONTROL ESTABLISHED BY THE TOWN OF AMHERST ENGINEERING DEPARTMENT, FEBRUARY, 2008. COORDINATE SYSTEM IS MASSACHUSETTS STATE PLAN, NAD83. CONTACT THE TOWN ENGINEERING DEPARTMENT FOR INFORMATION, 413-259-3152.
- CONTROL POINTS ESTABLISHED BY THE TOWN OF AMHERST ENGINEERING DIVISION. ELEVATIONS ARE NOTED ON THE PLAN.
- THE APPROXIMATE CLAY CAP LIMIT LINE WAS DERIVED FROM PLANS TITLED "AMHERST SANITARY LANDFILL CLOSE OUT, PHASE I-A & II" PREPARED BY ALMER HUNTLEY, JR. & ASSOCIATE INC. DATED JANUARY 1986 AND A PLAN TITLED "AUGUST 2008 GROUNDWATER CONTOUR PLAN, COMPREHENSIVE SITE ASSESSMENT (CSA) OLD AMHERST LANDFILL, AMHERST MASSACHUSETTS" PREPARED BY TIGHE & BOND.
- THE DEPTH TO THE CLAY CAP VARIES THROUGH OUT THE SITE. ALL PROPOSED GRADING INVOLVES FILL MATERIAL ONLY. NO CUT IS PROPOSED WITH THIS PROJECT. DO NOT DISTURB CLAY CAP LAYER.
- MAXIMUM PROPOSED GRADE IS 33% (3:1 SLOPE). MINIMUM PROPOSED GRADE IS 2%. ANY DEVIATION FROM THE GRADING PLAN MUST BE REVIEWED AND APPROVED BY THE TOWN ENGINEER.
- ALL EXISTING METHANE GAS VENTS SHALL BE PROTECTED DURING ALL GRADING OPERATIONS AND ADJUSTED TO 18" MINIMUM ABOVE THE PROPOSED GRADES. (GV-1, GV-2, GV-3 AND GV-4)

EROSION CONTROL NOTES:

- TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF ANY PHASE OF THE SITE WORK. EACH PHASE OF THE PROJECT SHALL BE STABILIZED PRIOR TO PROCEEDING TO THE NEXT PHASE. AREAS SUBJECT TO EROSION SHALL BE MINIMIZED IN TERMS OF TIME AND AREA.
- DURING THE INSTALLATION OF ALL EROSION CONTROL MEASURES, CARE SHALL BE TAKEN TO AVOID DISTURBING OR PUNCTURING THE EXISTING CLAY CAP LAYER. WOODEN STAKES TO SECURE HAY BALES AND SEDIMENTATION FENCING SHALL ONLY BE USED IN AREAS OUTSIDE THE CLAY CAP LAYER.
- NATURAL VEGETATION SHALL BE RETAINED WHENEVER FEASIBLE UP TO THE START OF A CONSTRUCTION ACTIVITY. DO NOT DISTURB VEGETATION AND TOPSOIL BEYOND THE PROPOSED LIMIT OF SILT FENCE ACTIVITIES.
- THE PROPOSED DRAINAGE SWALES SHALL BE INSTALLED AND THE STORMWATER BASIN SHALL BE CONVERTED TO A TEMPORARY SEDIMENTATION BASIN PRIOR TO ANY FILL MATERIAL BEING ADDED OR/AND ANY REGRADING ACTIVITIES BEGIN ON THE SITE.
- EARTHWORK ACTIVITIES SHALL BE PERFORMED IN A MANNER SUCH THAT RUNOFF IS DIRECTED TO THE DRAINAGE SWALES AND INTO THE TEMPORARY SEDIMENTATION BASIN.
- EROSION AND SEDIMENTATION CONTROLS SHALL BE INSPECTED ON A WEEKLY BASIS AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER. REPAIRS SHALL BE MADE ON AS-NEEDED BASIS, WITHIN 24 HOURS, AND ADDITIONAL CONTROL MEASURES MAY BE ADDED AT ANY TIME.
- SEDIMENT SHALL BE REMOVED FROM THE TEMPORARY SEDIMENTATION BASIN WHEN DEPTH REACHED 10". BASIN SHALL BE RESTORED TO ORIGINAL CONDITION AFTER COMPLETION OF ALL SITE WORK AND ONCE VEGETATION IS PERMANENTLY ESTABLISHED ON THE SITE.
- STRAW BALES AND SILT FENCE SHALL BE CLEANED ONCE SEDIMENT ACCUMULATES TO WITHIN ONE THIRD OF THE HEIGHT OF THE FENCE.
- TEMPORARY AND PERMANENT SEEDING SHALL BE PERIODICALLY INSPECTED FOR BARE SPOTS AND WASHOUTS, AND SHALL BE RESEED AS NECESSARY.



NOTES:

- ALL METHANE GAS VENTS TO BE RAISED A MINIMUM OF 18" ABOVE PROPOSED LANDFILL GRADES.
- ALL PVC SHALL BE SCH 40, SOLVENT WELD FITTINGS SHALL MEET ASTM D 3034.

EXISTING GAS VENT EXTENSIONS
 N.T.S.

LEGEND:

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|-----|----------------------------|---|------------------------------------|
| — | PROPERTY LINE—LOCUS PARCEL | — | EXIST. GRASS SWALE |
| — | PROPERTY LINE—ABUTTERS | — | EXIST. STONE LINED CHANNEL |
| — | EXIST. CONTOUR LINE | — | PROPOSED CONTOUR LINE—MAJOR |
| — | EXIST. TREE LINE | — | PROPOSED CONTOUR LINE—MINOR |
| —W— | EXIST. WATER LINE | — | PROPOSED CATCH BASIN OR DROP INLET |
| —S— | EXIST. SEWER LINE | — | PROPOSED DRAINAGE PIPE |
| —D— | EXIST. DRAIN LINE | + | PROPOSED SPOT ELEVATION |
| — | EXIST. FIRE HYDRANT | | |
| — | EXIST. CATCH BASIN | | |
| — | EXIST. SEWER MANHOLE | | |
| — | EXIST. DRAIN MANHOLE | | |
| — | EXIST. WATER GATE VALVE | | |
| — | EXIST. CONTROL POINT | | |
| — | EXIST. GAS VENT | | |
| — | EXIST. MONITORING WELL | | |
| — | APPROX. CLAY CAP LIMIT | | |

EXISTING DRAINAGE STRUCTURES:

DI#1	CB#2	CB#4	CB#5
RIM=275±	RIM=270.70	RIM=264.56	RIM=263.05
INV. OUT=272.00±	INV. OUT=264.80	INV. IN=262.98	INV. IN=262.80 (12")
(15" RCP PIPE)	(12" RCP PIPE)	INV. OUT=260.83	INV. IN=260.80 (15")
REBUILD AS NEEDED		(12" RCP PIPE)	INV. OUT=260.21
			(18" RCP PIPE)
CB#1	CB#3		
RIM=270.13	RIM=264.38		
INV. OUT=264.60	INV. OUT=263.11		
(15" RCP PIPE)	(12" RCP PIPE)		

REV. JULY 12, 2010
 DEPT COMMENTS

DRAWN BY: PGD CHKD BY:
 SCALE: 1"=50'
 DATE: MAY 4, 2010
 JOB NO.: TP10-07
 SHEET: 3 OF 5

**BWP SWII LANDFILLS
 MAJOR MODIFICATION PERMIT**

JOB NAME:
 LOCATION:
 DESCRIPTION:

**TOWN OF AMHERST
 DEPARTMENT OF PUBLIC WORKS
 ENGINEERING DIVISION
 386 SOUTH PLEASANT STREET
 AMHERST, MA 01002
 413-259-3050**

PROPOSED MODIFICATION/GRADING PLAN