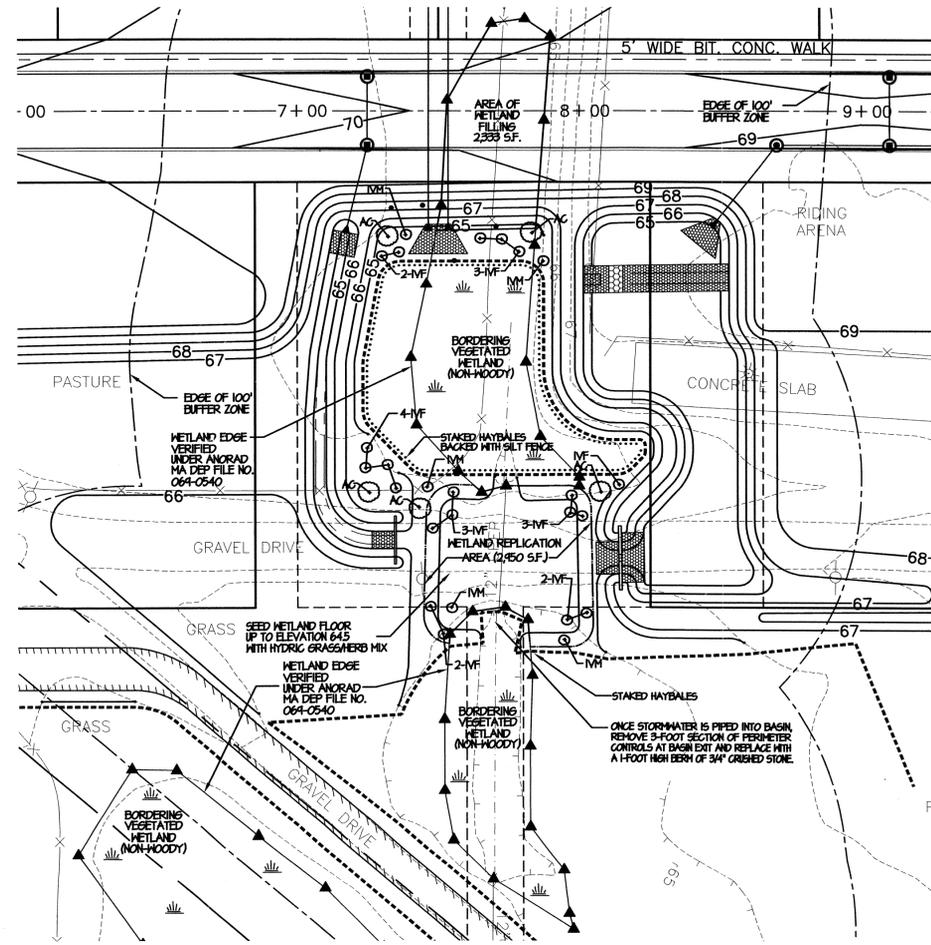
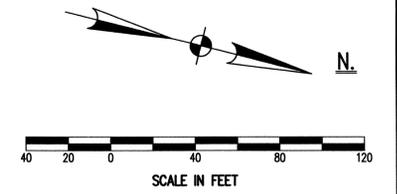


PROPOSED WETLAND REPLICATION GRADING PLAN
SCALE: 1" = 30'



PROPOSED WETLAND REPLICATION PLANTING PLAN
SCALE: 1" = 30'



TREE AND SHRUB PLANTING SCHEDULE

WETLAND REPLICATION AREA					
5	AC	SHADEBUSH	AMELANCHIER CANADENSIS	5' MIN	B4B
5	IVM	WINTERBERRY (MALE)	ILEX VERTICILLATA	3'-4' MIN	B4B
20	IVF	WINTERBERRY (FEMALE)	ILEX VERTICILLATA	3'-4' MIN	B4B

EROSION AND SEDIMENTATION CONTROL

- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE INSTALLED PRIOR TO THE COMMENCEMENT OF EARTHWORK AT THE SPECIFIC AREAS INDICATED ON THE PLANS. VEGETATIVE CLEARING MAY OCCUR PRIOR TO INSTALLATION OF SUCH CONTROLS, BUT NO GRUBBING, GRADING, FILLING, OR OTHER SOIL DISTURBANCE SHALL OCCUR PRIOR TO CONTROL INSTALLATION.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF PERIMETER EROSION AND SEDIMENTATION CONTROLS. ALL PERIMETER CONTROLS SERVE AS THE PROJECT LIMIT OF CLEARING AND SURFACE DISTURBANCE.
- NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF PERIMETER EROSION AND SEDIMENTATION CONTROLS.
- ALL PERIMETER EROSION AND SEDIMENTATION CONTROLS MUST BE PROPERLY MAINTAINED AND MUST REMAIN IN PLACE UNTIL SOILS HAVE STABILIZED TO THE SATISFACTION OF THE ENGINEER AND/OR THE CONSERVATION COMMISSION.
- THE ENGINEER RESERVES THE RIGHT TO SPECIFY ADDITIONAL CONTROLS AS CONDITIONS MAY WARRANT. ACCESSIBLE RESERVES OF SILT FENCE, HAY BALES, AND STAKES ARE TO BE MAINTAINED ON SITE FOR ROUTINE MAINTENANCE AND IN THE EVENT OF UNANTICIPATED PROBLEMS REQUIRING IMMEDIATE RESPONSE.
- THE TOE OF FILL SLOPES IS TO REMAIN AT LEAST ONE FOOT INSIDE OF ALL EROSION CONTROLS. UNDER NO CIRCUMSTANCE SHALL THE EROSION CONTROLS BE COVERED WITH FILL MATERIAL. ANY FILL MATERIAL THAT IS PLACED ON EROSION CONTROLS SHALL BE IMMEDIATELY REMOVED.
- ALL SILT FENCE IS TO BE INSTALLED WITH THE LOWER 6 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL. ALL HAY BALES ARE TO BE DOUBLE STAKED AND INSTALLED WITH THE LOWER 4 INCHES BURIED AND BACKFILLED WITH COMPACTED SOIL MATERIAL, EXCEPT AS NOTED WITHIN THE WETLAND REPLICATION AREA. WHEN USED IN COMBINATION, A SUFFICIENT AMOUNT OF THE SILT FENCE SHALL BE PLACED IN THE TRENCH SO THAT THE HAYBALE STAKES ARE DRIVEN THROUGH THE FABRIC.
- HAY-BALE CHECK DAMS ARE TO BE INSTALLED AT THE TOE OF SLOPES ALONG EASTERLY EDGE OF THE WETLAND CROSSING, AS DENOTED ON THE PLANS, AND AT ANY OTHER AREA WHERE STORMWATER HAS THE OPPORTUNITY TO DRAIN ALONG THE TOE OF NEWLY-CREATED SLOPES AND INTO WETLANDS.
- ALL DISTURBED SOILS EITHER NEWLY CREATED, OR EXPOSED, WITHIN 100 FEET OF WETLANDS PRIOR TO OCTOBER 15 OF ANY CALENDAR YEAR SHALL BE SEEDING OR PROTECTED BY THAT DATE. ANY AREAS THAT DO NOT HAVE ADEQUATE VEGETATIVE STABILIZATION BY NOVEMBER 15 OF THE SAME YEAR MUST BE STABILIZED THROUGH THE USE OF EROSION CONTROL MATTINGS, HAY MULCH, OR EQUIVALENT.
- SOIL STOCKPILES TO REMAIN IDLE MORE THAN 30 CALENDAR DAYS ARE TO BE RINGED WITH EITHER SILT FENCE OR STAKED HAY BALES AND SEEDING WITH A CONSERVATION GRASS MIX.
- ALL DISTURBED SOILS NOT DESIGNATED FOR OTHER SURFACE TREATMENT ARE TO BE LOAMED AND SEEDING IMMEDIATELY FOLLOWING FINAL GRADING.
- APPROPRIATE PRECAUTIONS SHOULD BE TAKEN TO PREVENT THE TRACKING OF SOIL BEYOND PROJECT LIMITS DUE TO CONSTRUCTION EQUIPMENT.

WETLAND REPLICATION NOTES

- WORK ON THE REPLACEMENT WETLAND IS NOT TO COMMENCE WITHOUT FIRST NOTIFYING CAPUTO AND WICK LTD. THE ENGINEER WILL REVIEW IN THE FIELD PROJECT LIMITS AND GENERAL CONSTRUCTION SEQUENCE AND METHODS.
- NO WORK IS TO OCCUR ON THE WETLAND SIDE OF APPROVED PROJECT LIMITS. PERIMETER HAY BALES ARE TO BE INSTALLED PRIOR TO EARTHWORK AND WILL SERVE AS WORK LIMITS. NO STONES, BRUSH, CONSTRUCTION DEBRIS, LITTER, OR OTHER MATERIALS ARE TO BE DEPOSITED ON THE WETLAND SIDE OF THE HAY BALES.
- THE WETLAND FLOOR SHALL BE OVER-EXCAVATED TO ACCOMMODATE 6 INCHES OF EVENLY SPREAD ORGANIC-MIX SOIL. SOILS EXCAVATED AS PART OF THE REPLICATION AREA SHALL BE EITHER RE-USED ON SITE WITHIN APPROVED PROJECT LIMITS OR SHALL BE RESPONSIBLY HAULLED OFF SITE AND DEPOSITED IN AN APPROVED UPLAND LOCATION OUTSIDE OF WETLAND AREAS.
- THE EXCAVATED WETLAND FLOOR SHALL BE GRADED TO GRADUALLY BLEND WITH THE UNDISTURBED WETLAND FLOOR.
- FOLLOWING FINAL SHAPING OF THE REPLICATION AREA, THE ORGANIC-MIX SOIL SHALL BE SPREAD ON THE BASIN FLOOR AND ON THE SIDE SLOPES UP TO ELEVATION 64.75 (WHERE APPLICABLE) TO A DEPTH OF SIX INCHES. CARE SHALL BE TAKEN TO AVOID MECHANICAL COMPACTION OF THE ORGANIC-MIX SOIL ONCE IT IS LAYED AND SPREAD ON THE WETLAND FLOOR. SIX INCHES OF LOAM SHALL BE SPREAD ON WETLAND SIDE SLOPES ABOVE ELEVATION 64.75 FOLLOWING FINAL SHAPING.
- ANY SUITABLE "O" AND "A"-HORIZON (TOP) SOILS STRIPPED FROM THE WETLAND IMPACT AREA MAY BE USED INSTEAD OF, OR TO SUPPLEMENT THE ORGANIC-MIX SOIL AS DIRECTED BY THE ENGINEER. SOILS FROM THE IMPACT AREA MAY BE STOCKPILED PRIOR TO RESPREADING IN THE REPLICATION AREA, BUT THEY SHALL BE STOCKPILED FOR AS SHORT A DURATION AS FEASIBLE AND SHALL REMAIN COVERED WITH TARPS TO RETAIN MOISTURE CONTENT AND TO MINIMIZE EXPOSURE TO DIRECT SUNLIGHT.
- IF NEEDED THE ORGANIC MIX SOIL SHALL COMPRISE LOAM BLENDED WITH PEAT MOSS AND/OR HUMUS AT A RATIO OF THREE PARTS MINERAL SOIL TO ONE PART PEAT/HUMUS.
- A LINE OF STAKED, UNTRENCHED HAY BALES SHALL BE INSTALLED ON THE WETLAND FLOOR AT THE TOE OF THE GRADED SLOPES WHERE SHOWN ON THE PLAN IMMEDIATELY FOLLOWING TOPSOIL SPREADING.
- THE ENGINEER RESERVES THE RIGHT TO SPECIFY THE INSTALLATION OF ADDITIONAL STAKED HAY BALES AND OR SILT FENCE DURING CONSTRUCTION AS NECESSARY BASED ON FIELD CONDITIONS.
- TREES AND SHRUBS SHALL BE PLANTED AS SHOWN ON THE PLANS.
- THE WETLAND FLOOR AND LOWEST ONE FOOT OF THE SIDE SLOPES (UP TO ELEVATION 64.75 WHERE APPLICABLE) SHALL BE SEEDING WITH A HYDRIC GRASS/HERB SEED MIX TO BE APPROVED BY THE ENGINEER.
- WETLAND SIDE SLOPES ABOVE ELEVATION 64.75 AND ALL UPLAND AREAS EXPOSED AS A RESULT OF WETLAND REPLICATION ACTIVITIES SHALL BE SEEDING WITH A CONSERVATION GRASS MIX. THE LOWEST ONE FOOT OF THE SIDE SLOPES SHALL BE SEEDING WITH BOTH SEED MIXES.
- THE PERIMETER AND INTERIOR HAY-BALE LINES ARE TO REMAIN IN PLACE UNTIL SOILS HAVE STABILIZED TO THE SATISFACTION OF THE ENGINEER AND/OR THE CONSERVATION COMMISSION.
- THE CONTRACTOR IS RESPONSIBLE FOR WATERING TREES, SHRUBS, AND SEED AS NECESSARY TO ENSURE GERMINATION AND SURVIVAL.

CONSTRUCTION SEQUENCE

- NOTIFY THE SEEKONK CONSERVATION COMMISSION PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, AS SPECIFIED IN THE ORDER CONDITIONS UNDER MADEP FILE NO. SE 64-___ AND ERECT A SIGN AT THE SITE ENTRY IDENTIFYING THE MADEP FILE NO. TO THE SPECIFICATIONS ALSO IDENTIFIED IN THE ORDER OF CONDITIONS.
- SURVEY LOCATE ROAD CENTERLINES AND ALL LIMITS OF DISTURBANCE PRIOR TO CLEARING AND GRUBBING.
- CLEAR TREES AND SHRUBS WITHIN PROJECT LIMITS SPECIFIED. CARE SHALL BE EXERCISED TO FELL TREES TOWARD THE PROJECT WORK AREA AND NOT BEYOND PROJECT LIMITS.
- PROPERLY INSTALL PERIMETER EROSION CONTROLS AND ORANGE CONSTRUCTION FENCING PRIOR TO THE COMMENCEMENT OF EARTHWORK, AND IN STRICT ADHERENCE TO THE LOCATIONS SHOWN ON THE PLANS.
- GRUB WORK AREAS AND ENSURE THAT NO SLASH, STUMPS, OR DEBRIS ARE DEPOSITED OUTSIDE OF APPROVED PROJECT LIMITS.
- ESTABLISH ROAD BEDDING AND GROSS CULVERTS, AND FILL ROAD BED SUFFICIENT FOR SITE ACCESS.
- CONSTRUCT WETLAND REPLICATION AREA IN ACCORDANCE WITH NOTES PROVIDED ON THIS SHEET. MACHINERY ACCESS FOR WETLAND REPLICATION SHALL BE THROUGH PROPOSED DETENTION BASIN. INSTALL WETLAND REPLICATION PLANTINGS UPON COMPLETION OF FINAL GRADING AND ORGANIC SOIL PLACEMENT. PLANTING SHALL BE SEQUENCED WITH DETENTION BASIN CONSTRUCTION SUCH THAT ACCESS FOR PLANTING IS MAINTAINED AND SUCH THAT THE TOE OF THE BASIN SLOPE IS AT FINISH GRADE PRIOR TO PLANTING.
- CONSTRUCT DETENTION BASINS SEQUENTIALLY PRIOR TO INSTALLATION OF DRAINAGE PIPING. ALL BASINS ARE TO BE FINAL SHAPED, LOAMED, SEEDING, AND STABILIZED WITH GRASS SUFFICIENT IN MATURITY TO ADEQUATELY RETAIN SOILS PRIOR TO THE INTRODUCTION OF PROJECT STORMWATER.
- ONCE STORMWATER IS TO BE INTRODUCED INTO THE BASINS, AND ONLY AFTER ADEQUATE SOIL STABILIZATION HAS BEEN ACHIEVED BY GRASS COVER, A THREE-FOOT SECTION OF PERIMETER CONTROLS AT THE OUTLET OF EACH BASIN SHALL BE REMOVED AND REPLACED WITH A CRUSHED-STONE CHECK DAM AS SPECIFICALLY NOTED ON THE PLANS.
- FINALIZE SITE AND ROAD GRADING, COMPLETE IN-ROAD UTILITY INSTALLATION, SET CURBING AND BINDER, AND APPLY PAVEMENT TOP COAT.
- LOAM ALL EXPOSED AREAS NOT DESIGNATED FOR OTHER TREATMENT, INSTALL TREE AND SHRUB PLANTINGS WHERE SHOWN ON THE PLANS, AND SEED ALL EXPOSED SOILS. SEE EROSION AND SEDIMENTATION CONTROL NOTES REGARDING EROSION AND STABILIZATION CONCERNS AND TIMING.
- THE CONTRACTOR/OWNER IS RESPONSIBLE FOR ENSURING THE SURVIVAL OF ALL TREE AND SHRUB PLANTINGS FOR NOT LESS THAN TWO YEARS. ANY PLANTED TREES AND SHRUBS THAT DO NOT SURVIVE, OR THAT EXHIBIT ILL CONDITION, DURING THIS PERIOD SHALL BE REPLACED BY THE CONTRACTOR/OWNER AT NO EXPENSE TO THE TOWN.

STORMWATER MAINTENANCE SCHEDULE

- THE ROADWAY AREA IS TO BE SHEPT CLEAN ON A SEMI-ANNUAL BASIS TO REMOVE CONTAMINANTS AND SOIL FINES. IT IS PARTICULARLY IMPORTANT TO SCHEDULE SPRING SHEETING TO REMOVE RESIDUAL SAND RESULTING FROM WINTER SNOW AND ICE REMOVAL OPERATIONS.
- INSPECT CATCH BASINS AND DRAIN MANHOLES SEMI-ANNUALLY (SPRING AND LATE FALL/EARLY WINTER) AND REMOVE SEDIMENT, LEAVES AND DEBRIS AS NECESSARY. IT IS IMPORTANT THAT THE PUMPS BE PROPERLY MAINTAINED TO PREVENT DISCHARGE OF FINES INTO THE STORMWATER SYSTEM.
- INSPECT INTERCONNECTION PIPING ON AN ANNUAL BASIS, AND REMOVE ALL FINES OR OTHER CONTAMINANTS. LATE SPRING OR EARLY SUMMER INSPECTION SCHEDULE IS CONSIDERED PREFERABLE.
- INSPECT THE DETENTION BASINS AND WATER QUALITY SHALES ON AN ANNUAL BASIS, AND REMOVE ANY SEDIMENT, LEAVES AND DEBRIS. LATE SPRING OR EARLY SUMMER INSPECTION SCHEDULE IS CONSIDERED PREFERABLE.

REPLICATION AND GRADING PLAN NO. 1



DEFINITIVE SUBDIVISION GREENWOOD FARM PREPARED FOR DUSHAW DEVELOPMENT COMPANY GREENWOOD AVENUE SEEKONK, MASSACHUSETTS
CAPUTO AND WICK LTD. DATE: NOVEMBER 1, 2004
1150 PAWTUCKET AVE. RUMFORD, R.I. 02916 SHEET: 14 OF 14
401-434-8880