

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

NOTE: SEE SHEET 6 OF 6 FOR CONSTRUCTION SEQUENCING

BOHLER ENGINEERING

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 LANDSCAPE ARCHITECTS

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REVISIONS

REV	DATE	COMMENT	BY
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THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSONS PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE (MA, ME, NH, RI, VT, 1-800-348-7233) (CT 1-800-892-4466) (NY 1-800-955-7182)

ISSUED FOR BID

PROJECT NO.: W111022
 DRAWN BY: CFD
 CHECKED BY: JAB/SPD
 DATE: 11/01/2011
 SCALE: AS NOTED
 CAD I.D.: SWPPP Plan Phase 1 10-24-11

PROJECT:
SWPPP PLAN
 FOR
Pulte Homes
THE RESIDENCES AT QUAIL RIDGE
 LOCATION OF SITE
 354 B GREAT ROAD & SKYLINE DR.
 TOWN OF ACTON
 MIDDLESEX COUNTY, MA

BOHLER ENGINEERING

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S.P. DELOURSEY

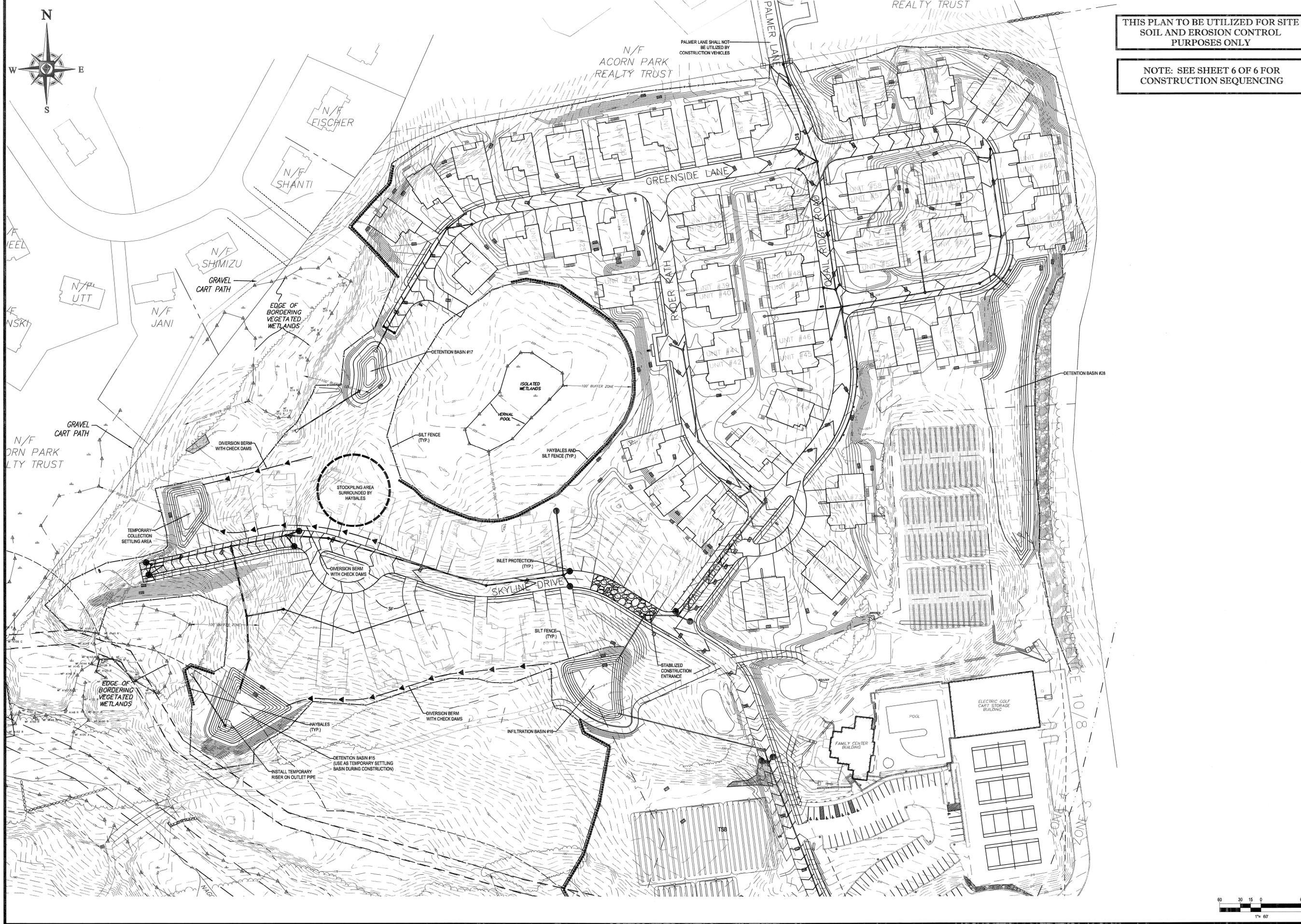
STEPHEN P. DELOURSEY
 CIVIL ENGINEER
 PROFESSIONAL REGISTERED ENGINEER
 MAJOR REGISTRATION NO. 23692
 NEW HAMPSHIRE REGISTRATION NO. 0008
 VERMONT REGISTRATION NO. 7110
 CONNECTICUT REGISTRATION NO. 23692
 RHODE ISLAND LICENSE NO. 7990

SHEET TITLE:
PHASE I EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER:
1
 OF 6

REV 0 - 11/01/2011

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PROJECT No.: W111022
DRAWN BY: CFT
CHECKED BY: JAB/SPD
DATE: 11/01/2011
SCALE: AS NOTED
CAD I.D.: SWPPP Plan Phase 2 10-24-11

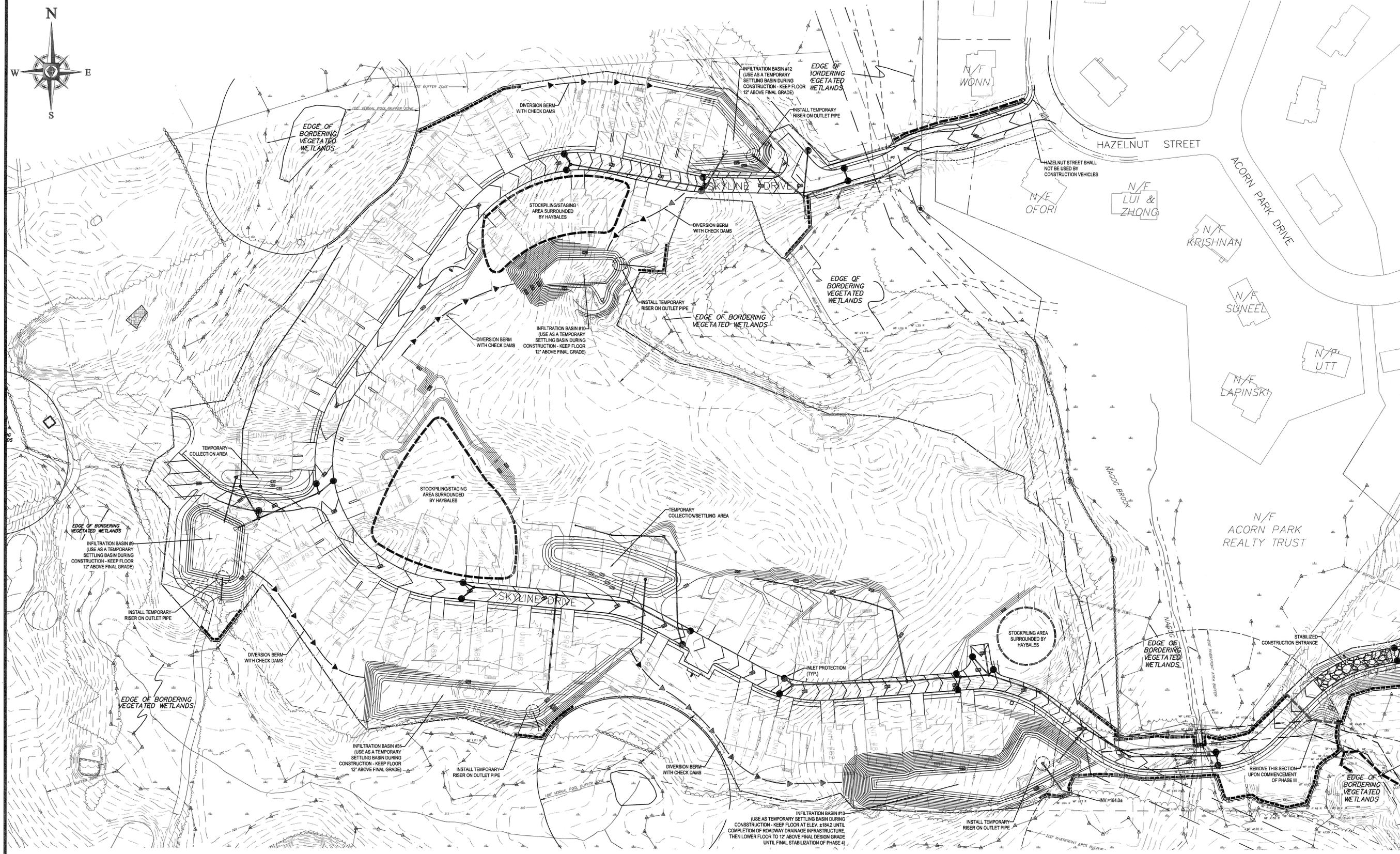
PROJECT:
SWPPP PLAN
FOR
Pulte Homes
THE RESIDENCES AT QUAIL RIDGE
LOCATION OF SITE
354 B GREAT ROAD & SKYLINE DR.
TOWN OF ACTON
MIDDLESEX COUNTY, MA

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RHODE ISLAND LICENSE NO. 7690

SHEET TITLE:
PHASE II EROSION AND SEDIMENTATION CONTROL PLAN
SHEET NUMBER:
2
OF 6
REV 0 - 11/01/2011

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THE FOLLOWING STATES REQUIRE NOTIFICATION BY EXCAVATORS, DESIGNERS, OR ANY PERSON PREPARING TO DISTURB THE EARTH'S SURFACE ANYWHERE IN THE STATE:

MA, ME, NH, RI, VT 1-888-344-7231
 CT 1-800-952-4400
 NY 1-800-962-7962

ISSUED FOR BID

PROJECT NO.: W111022
 DRAWN BY: CTD
 CHECKED BY: JAB/SPD
 DATE: 11/01/2011
 SCALE: AS NOTED
 CAD I.D.: SWPPP Plan Phase 3 10-24-11

SWPPP PLAN

FOR

Pulte Homes

THE RESIDENCES AT QUAIL RIDGE

LOCATION OF SITE
 354 B GREAT ROAD & SKYLINE DR.
 TOWN OF ACTON
 MIDDLESEX COUNTY, MA

BOHLER ENGINEERING

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 SOUTH BOROUGHS, MA 01772
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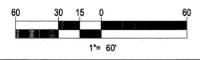
REGISTERED PROFESSIONAL ENGINEER
 STATE OF CONNECTICUT
 LICENSE NO. 1110
 CONNECTICUT LICENSE NO. 23862
 RHODE ISLAND LICENSE NO. 7990

NOTE: SEE SHEET 6 OF 6 FOR CONSTRUCTION SEQUENCING

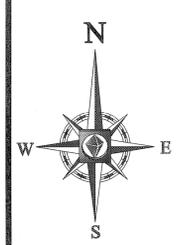
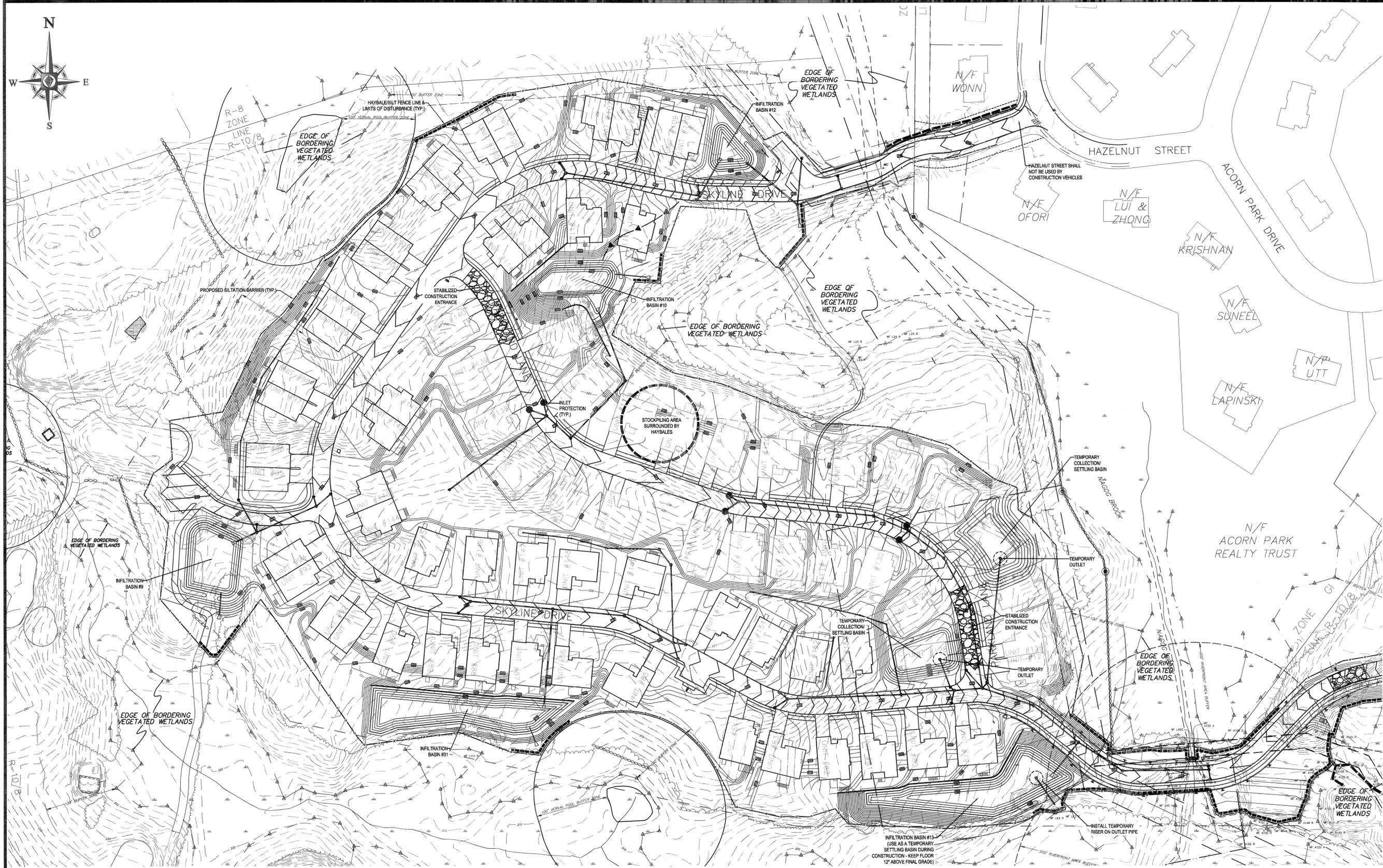
THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

SHEET TITLE:
PHASE III EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER:
3
 OF 6



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SURVEYORS
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 LANDSCAPE ARCHITECTS

PROFESSIONAL ENGINEER
 STATE OF CONNECTICUT LICENSE NO. 23882
 RHODE ISLAND LICENSE NO. 7990

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 (MA, ME, NH, RI, VT, 1-800-944-7233)
 (CT, 1-800-922-2444)
 (NY, 1-800-962-7962)

ISSUED FOR BID

PROJECT No.: W111022
 DRAWN BY: CFD
 CHECKED BY: JAB/SPD
 DATE: 11/01/2011
 SCALE: AS NOTED
 CAD I.D.: SWPPP Plan Phase 4 10-24-11

PROJECT:
SWPPP PLAN
 FOR

THE RESIDENCES AT QUAIL RIDGE
 LOCATION OF SITE
 354 B GREAT ROAD & SKYLINE DR.
 TOWN OF ACTON
 MIDDLESEX COUNTY, MA

BOHLER ENGINEERING

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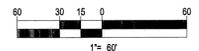
NOTE: SEE SHEET 6 OF 6 FOR CONSTRUCTION SEQUENCING

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

SHEET TITLE:
PHASE IV EROSION AND SEDIMENTATION CONTROL PLAN

SHEET NUMBER:
4
 OF 6

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DRIVEWAY CONSTRUCTION PHASES:

- PHASE ONE: PORTION OF SKYLINE DRIVE, QUAIL RIDGE DRIVE, RYDER PATH, GREENSIDE LANE & ASSOCIATED UTILITY SYSTEMS, ALONG WITH CONNECTION TO PALMER LANE.
- PHASE TWO: PORTION OF SKYLINE DRIVE & ASSOC. UTILITY SYSTEMS.
- PHASE THREE: PORTION OF SKYLINE DRIVE AND ASSOCIATED UTILITY SYSTEMS, ALONG WITH CONNECTION TO HAZELNUT STREET.
- PHASE FOUR: PARKLAND LANE AND ASSOCIATED UTILITY SYSTEMS.

NOTE: THE SITE IS SUBJECT TO AN EPA NPDES CONSTRUCTION GENERAL PERMIT. THE SWPPP THAT IS REQUIRED AS PART OF THE NPDES WILL GOVERN EROSION & SEDIMENT CONTROLS.

EROSION & SEDIMENT CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE DONE AS SET FORTH IN THE "EROSION AND SEDIMENT CONTROL HANDBOOK" PUBLISHED BY THE U.S.D.A. SOIL CONSERVATION SERVICE, STORRS, CONNECTICUT, 1972, AS AMENDED.
2. THOSE AREAS UNDERGOING ACTUAL CONSTRUCTION WILL BE LEFT IN AN UNTREATED OR UNVEGETATED CONDITION FOR A MINIMUM TIME. AREAS SHALL BE PERMANENTLY STABILIZED WITHIN 15 DAYS OF FINAL GRADING AND TEMPORARILY STABILIZED WITHIN 30 DAYS OF INITIAL DISTURBANCE OF THE SOIL. IF THE DISTURBANCE IS WITHIN 100 FEET OF A STREAM OR POND, THE AREA SHALL BE STABILIZED WITHIN 7 DAYS OR PRIOR TO ANY STORM EVENT (THIS WOULD INCLUDE WETLANDS).
3. SEDIMENT BARRIERS (SILT FENCE, HAY BARRIERS, ETC.) SHOULD BE INSTALLED PRIOR TO ANY SOIL DISTURBANCE OF THE CONTRIBUTING DRAINAGE AREA ABOVE THEM. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
4. INSTALL SILT FENCE AT TOE OF SLOPE TO FILTER SILT FROM RUNOFF. SEE SILT FENCE DETAIL FOR PROPER INSTALLATION. SILT FENCE WILL REMAIN IN PLACE PER NOTE #5.
5. ALL EROSION CONTROL STRUCTURES WILL BE INSPECTED, REPLACED AND/OR REPAIRED EVERY 7 DAYS AND IMMEDIATELY FOLLOWING ANY SIGNIFICANT RAINFALL OR SNOW MELT OR WHEN NO LONGER SERVICEABLE DUE TO SEDIMENT ACCUMULATION OR DECOMPOSITION. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE HALF THE HEIGHT OF THE BARRIER. SEDIMENT CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL AREAS UP-SLOPE ARE STABILIZED BY TURF.
6. NO SLOPES, EITHER PERMANENT OR TEMPORARY, SHALL BE STEEPER THAN TWO TO ONE (2:1).
7. IF FINAL SEEDING OF THE DISTURBED AREAS IS NOT COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST, USE TEMPORARY MULCH (DORMANT SEEDING MAY BE ATTEMPTED AS WELL) TO PROTECT THE SITE AND DELAY SEEDING UNTIL THE NEXT RECOMMENDED SEEDING PERIOD.
8. TEMPORARY SEEDING OF DISTURBED AREAS THAT HAVE NOT BEEN FINAL GRADED SHALL BE COMPLETED 45 DAYS PRIOR TO THE FIRST KILLING FROST TO PROTECT FROM SPRING RUNOFF PROBLEMS.
9. DURING THE CONSTRUCTION PHASE, INTERCEPTED SEDIMENT WILL BE RETURNED TO THE SITE AND REGRADED ONTO OPEN AREAS.
10. REVEGETATION MEASURES WILL COMMENCE UPON COMPLETION OF CONSTRUCTION EXCEPT AS NOTED ABOVE. ALL DISTURBED AREAS NOT OTHERWISE STABILIZED WILL BE GRADED, SMOOTHED, AND PREPARED FOR FINAL SEEDING AS FOLLOWS:
 - 10.1. SIX INCHES OF LOAM WILL BE SPREAD OVER DISTURBED AREAS AND SMOOTHED TO A UNIFORM SURFACE.
 - 10.2. APPLY LIME STONE AND FERTILIZER ACCORDING TO SOIL TEST. IF SOIL TESTING IS NOT FEASIBLE ON SMALL OR VARIABLE SITES, OR WHERE TIMING IS CRITICAL, FERTILIZER MAY BE APPLIED AT THE RATE OF 800 LB PER ACRE OR 18.4 LB PER 1,000 SF USING 10-20-20 OR EQUIVALENT, APPLY GROUND LIME STONE (EQUIVALENT TO 50% CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF 3 TONS PER ACRE (130 LB PER 1,000 SF).
 - 10.3. FOLLOWING SEED BED PREPARATION, DITCHES AND BACK SLOPES WILL BE SEED TO A MIXTURE OF 47% CREEPING RED FESCUE, 5% REDTOP, AND 48% TALL FESCUE. THE LAWN AREAS WILL BE SEED TO A PREMIUM TURF MIXTURE OF 44% KENTUCKY BLUE GRASS, 44% CREEPING RED FESCUE, AND 12% PERENNIAL RYEGRASS. SEEDING RATE IS 1.03 LBS PER 1,000 SF LAWN QUALITY SOD MAY BE SUBSTITUTED FOR SEED.
 - 10.4. HAY MULCH AT THE RATE OF 70-80 LBS PER 1,000 SF. A HYDRO-APPLICATION OF WOOD OR PAPER FIBER SHALL BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS WILL BE USED ON HAY MULCH FOR WIND CONTROL.
11. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED ONCE THE SITE IS STABILIZED.
12. WETLANDS WILL BE PROTECTED WITH HAYBALES AND/OR SILT FENCE INSTALLED AT THE EDGE OF THE WETLAND OR THE BOUNDARY OF WETLAND DISTURBANCE.
13. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL HAVE AN EXPOSURE WINDOW OF NOT MORE THAN 7 DAYS.
14. ALL AREAS WITHIN 100 FEET OF A FLAGGED WETLAND OR STREAM SHALL FOLLOW APPROPRIATE EROSION CONTROL MEASURES PRIOR TO EACH STORM IF NOT BEING ACTIVELY WORKED.
15. PHASING SHOWN IS FOR CONCEPTUAL PURPOSES ONLY. THE DEVELOPER MAY ALTER PHASES TO ACCOMMODATE SITE EARTHWORK, UTILITY INSTALLATION, AND BUILDING PROGRAM AS NEEDED, AS LONG AS APPROPRIATE EROSION CONTROLS AND BEST MANAGEMENT PRACTICES ARE IN PLACE.

MULCH

LOCATION PROTECT AREA	MULCH	RATE (1000 SF)
WINDY AREA	SHREDDED OR CHOPPED CORNSTALKS STRAW OR HAY (ANCHORED)	185-275 POUNDS 100 POUNDS
MODERATE TO HIGH VELOCITY AREAS OR STEEP SLOPES GREATER THAN 3:1	JUTE MESH OR EXCELSIOR MAT	AS REQUIRED

* A HYDRO-APPLICATION OF WOOD, OR PAPER FIBER MAY BE APPLIED FOLLOWING SEEDING. A SUITABLE BINDER SUCH AS CURASOL OR RMB PLUS SHALL BE USED ON HAY MULCH FOR WIND CONTROL.

MULCH ANCHORING
ANCHOR MULCH WITH PEG AND TWINE (1 SQ. YD/BLOCK); MULCH NETTING (AS PER MANUFACTURER); WOOD CELLULOSE FIBER (750 LBS/ACRE); CHEMICAL TACK (AS PER MANUFACTURER'S SPECIFICATIONS); USE OF A SERRATED STRAIGHT DISK. WETTING FOR SMALL AREAS AND ROAD DITCHES MAY BE PERMITTED.

EROSION CONTROL NOTES DURING WINTER CONSTRUCTION

1. WINTER CONSTRUCTION PERIOD: NOVEMBER 1 THROUGH APRIL 15.
2. WINTER EXCAVATION AND EARTHWORK SHALL BE DONE SUCH THAT NO MORE THAN 1 ACRE OF THE SITE IS WITHOUT STABILIZATION AT ANY ONE TIME.
3. EXPOSED AREA SHOULD BE LIMITED TO THAT CAN BE MULCHED IN ONE DAY PRIOR TO ANY SNOW EVENT.
4. CONTINUATION OF EARTHWORK OPERATION ON ADDITIONAL AREAS SHALL NOT BEGIN UNTIL THE EXPOSED SOIL SURFACE ON THE AREA BEING WORKED HAS BEEN STABILIZED SUCH THAT NO LARGER AREA OF THE SITE IS WITHOUT EROSION CONTROL PROTECTION AS LISTED IN ITEM 2 ABOVE.
5. AN AREA SHALL BE CONSIDERED TO HAVE BEEN STABILIZED WHEN EXPOSED SURFACES HAVE BEEN EITHER MULCHED WITH STRAW OR HAY AT A RATE OF 100 LB. PER 1,000 SQUARE FEET (WITH OR WITHOUT SEEDING) OR DORMANT SEEDING, MULCHED AND ADEQUATELY ANCHORED BY AN APPROVED ANCHORING TECHNIQUE.
6. BETWEEN THE DATES OF OCTOBER 15 AND APRIL 15, LOAM OR SEED WILL NOT BE REQUIRED. DURING PERIODS OF ABOVE FREEZING TEMPERATURES THE SLOPES SHALL BE FINE GRADED AND EITHER PROTECTED WITH MULCH OR TEMPORARILY SEEDED AND MULCHED UNTIL SUCH TIME AS THE FINAL TREATMENT CAN BE APPLIED. IF THE DATE IS AFTER NOVEMBER 1ST AND IF THE EXPOSED AREA HAS BEEN LOAMED, FINAL GRADED AND IS SMOOTH, THEN THE AREA MAY BE DORMANT SEEDED AT A RATE OF 200 - 300% HIGHER THAN SPECIFIED FOR PERMANENT SEED AND THEN MULCHED. IF CONSTRUCTION CONTINUES DURING FREEZING WEATHER, ALL EXPOSED AREAS SHALL BE CONTINUOUSLY GRADED BEFORE FREEZING AND THE SURFACE TEMPORARILY PROTECTED FROM EROSION BY THE APPLICATION OF MULCH. SLOPES SHALL NOT BE LEFT UNEXPOSED OVER THE WINTER OR ANY OTHER EXTENDED TIME OF WORK SUSPENSION UNLESS TREATED IN THE ABOVE MANNER. UNTIL SUCH TIME AS WEATHER CONDITIONS ALLOW DITCHES TO BE FINISHED WITH THE PERMANENT SURFACE TREATMENT, EROSION SHALL BE CONTROLLED BY THE INSTALLATION OF BALES OF HAY OR STONE CHECK DAMS IN ACCORDANCE WITH THE STANDARD DETAILS.
7. MULCHING REQUIREMENTS:
 - 7.1. BETWEEN THE DATES OF NOVEMBER 1ST AND APRIL 15TH ALL MULCH SHALL BE ANCHORED BY EITHER PEG LINE, MULCH NETTING OR WOOD CELLULOSE FIBER.
 - 7.2. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL DRAINAGE WAYS WITH A SLOPE GREATER THAN 3% FOR SLOPE EXPOSED TO DIRECT WINDS AND FOR ALL OTHER SLOPES GREATER THAN 8%.
 - 7.3. MULCH NETTING SHALL BE USED TO ANCHOR MULCH IN ALL AREAS WITH SLOPES GREATER THAN 15% AFTER OCTOBER 1ST THE SAME APPLIES FOR ALL SLOPES GREATER THAN 8%.
8. AFTER NOVEMBER 1ST THE CONTRACTOR SHALL APPLY DORMANT SEEDING OR MULCH AND ANCHORING ON ALL BARE EARTH AT THE END OF EACH WORKING DAY.
9. DURING THE WINTER CONSTRUCTION PERIOD ALL SNOW SHALL BE REMOVED FROM AREAS OF SEEDING AND MULCHING PRIOR TO PLACEMENT.
10. STOCKPILING OF MATERIALS (DIRT, WOOD, CONSTRUCTION MATERIALS, ETC.) MUST REMAIN COVERED AT ALL TIMES TO MINIMIZE ANY DUST PROBLEMS THAT MAY OCCUR WITH ADJACENT PROPERTIES AND TO PROVIDE MAXIMUM PROTECTION AGAINST EROSION RUNOFF.
11. EXISTING CATCH BASIN STRUCTURES SHALL BE PROTECTED UNTIL SUCH TIME AS THEY ARE REMOVED.

PHASE I CONSTRUCTION SEQUENCE

- SATISFY ALL PRE-CONSTRUCTION CONDITIONS OF APPLICABLE FEDERAL, STATE, AND LOCAL PERMITS.
- INSTALL TEMPORARY CONSTRUCTION OFFICER/TRAILER AT THE EXISTING "HAMMERHEAD" AT THE TERMINUS OF SKYLINE DRIVE (CONSTRUCTION OFFICE MAY BE MOVED TO NEW LOCATION(S) AS CONSTRUCTION PROGRESSES).
- MAINTAIN AN UP-TO-DATE COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE CONSTRUCTION OFFICE AND POST A CONSPICUOUS COPY OF THE NPDES NOTICE OF INTENT OUTDOORS IN THE VICINITY OF THE CONSTRUCTION OFFICE.
- COMPLETE INSTALLATION OF PERIMETER EROSION CONTROL DEVICES AROUND PHASES 1 AND 2.
- CUT AND REMOVE TREES INTENDED FOR REMOVAL WITHIN PHASES 1 AND 2.
- REMOVE STUMPS WITHIN PHASE 1.
- COMMENCE EARTHWORK OPERATIONS IN PHASE 1.
- THROUGHOUT THE DURATION OF CONSTRUCTION, PROVIDE STORMWATER CONTROL AND TREATMENT, AND PROVIDE TEMPORARY STABILIZATION MEASURES FOR DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- INITIAL PHASE 1 EARTHWORK PRIORITIES SHALL INCLUDE CONSTRUCTING STORMWATER BASINS 16, 17, 22, AND 28 (TO BE USED AS TEMPORARY SETTLING BASINS), OTHER TEMPORARY STORMWATER COLLECTION/SETTLING AREAS, AND TEMPORARY DIVERSION SWALES.
- INSTALL TEMPORARY CHECK DAM/BERM ACROSS BASIN 28.
- FOR ALL TEMPORARY SETTLING BASINS THAT WILL ULTIMATELY SERVE AS PERMANENT INFILTRATION BASINS, THE BOTTOM ELEVATION SHALL BE HELD APPROXIMATELY 12 INCHES ABOVE FINAL GRADE WHILE BEING USED AS A TEMPORARY SETTLING BASIN DURING CONSTRUCTION.
- ESTABLISH INTENDED SUBGRADE AND SIMULTANEOUSLY COMMENCE INSTALLATION OF UNDERGROUND UTILITIES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- INSTALL INLET FILTER PROTECTION ON CATCH BASINS UPON INSTALLATION.
- COMMENCE CONSTRUCTION OF HOMES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- SPREAD AND COMPACT ROAD BASE AND PLACE BINDER COURSE OF PAVEMENT AS ROADWAY UTILITIES ARE COMPLETED.
- UPON PLACEMENT OF BINDER COURSE, PROVIDE TEMPORARY CURB/BERM (OR PERMANENT CURB/BERM TO THE EXTENT FEASIBLE) TO DIRECT STREET RUNOFF TO THE CATCH BASINS.
- ESTABLISH PERMANENT GROUND COVER/STABILIZATION IN AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED AND ALL OTHER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- UPON PERMANENT STABILIZATION OF THE RESPECTIVE TRIBUTARY AREAS, FINALIZE BASINS 16, 17, 22, AND 28 TO REMOVE ANY ACCUMULATED SEDIMENT, ESTABLISH FINAL GRADES, PROVIDE FINAL SURFACE TREATMENT AND STABILIZATION, AND INSTALL THE PERMANENT OUTLET STRUCTURES.

PHASE II CONSTRUCTION SEQUENCE

- MAINTAIN AN UP-TO-DATE COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE CONSTRUCTION OFFICE AND A POSTED COPY OF THE NPDES NOTICE OF INTENT OUTDOORS IN THE VICINITY OF THE CONSTRUCTION OFFICE.
- COMPLETE STUMP REMOVAL WITHIN PHASE 2.
- COMMENCE EARTHWORK OPERATIONS IN PHASE 2.
- THROUGHOUT THE DURATION OF CONSTRUCTION, PROVIDE STORMWATER CONTROL AND TREATMENT, AND PROVIDE TEMPORARY STABILIZATION MEASURES FOR DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- INITIAL PHASE 2 EARTHWORK PRIORITIES SHALL INCLUDE CONSTRUCTING STORMWATER BASIN 15 (TO BE USED AS A TEMPORARY SETTLING BASIN), OTHER TEMPORARY STORMWATER COLLECTION/SETTLING AREAS, AND TEMPORARY DIVERSION SWALES.
- ESTABLISH INTENDED SUBGRADE AND SIMULTANEOUSLY COMMENCE INSTALLATION OF UNDERGROUND UTILITIES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- INSTALL INLET FILTER PROTECTION ON CATCH BASINS UPON INSTALLATION.
- COMMENCE CONSTRUCTION OF HOMES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- SPREAD AND COMPACT ROAD BASE AND PLACE BINDER COURSE OF PAVEMENT AS ROADWAY UTILITIES ARE COMPLETED.
- UPON PLACEMENT OF BINDER COURSE, PROVIDE TEMPORARY CURB/BERM (OR PERMANENT CURB/BERM TO THE EXTENT FEASIBLE) TO DIRECT STREET RUNOFF TO THE CATCH BASINS.
- ESTABLISH PERMANENT GROUND COVER/STABILIZATION IN AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED AND ALL OTHER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- UPON PERMANENT STABILIZATION OF ITS RESPECTIVE TRIBUTARY AREA, FINALIZE BASIN 15 TO REMOVE ANY ACCUMULATED SEDIMENT, ESTABLISH FINAL GRADES, PROVIDE FINAL SURFACE TREATMENT AND STABILIZATION, AND INSTALL THE PERMANENT OUTLET STRUCTURE.

PHASE III CONSTRUCTION SEQUENCE

- MAINTAIN AN UP-TO-DATE COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE CONSTRUCTION OFFICE AND POST A CONSPICUOUS COPY OF THE NPDES NOTICE OF INTENT OUTDOORS IN THE VICINITY OF THE CONSTRUCTION OFFICE.
- NOTIFY THE CONSERVATION COMMISSION 48 HOURS (OR AS OTHERWISE REQUIRED) PRIOR TO COMMENCING CONSTRUCTION OF THE WETLAND CROSSING.
- INSTALL EROSION CONTROL BARRIER THROUGH WETLAND CROSSING AREA AND DOWNGRADEMENT OF BASIN 13 (TO BE USED AS A TEMPORARY SETTLING BASIN).
- CLEAR AND CRIB THE AREA WITHIN THE WETLAND CROSSING AREA, THE DESIGNATED AREA FOR WETLANDS REPLICATION, AND BASIN 13.
- EXCAVATE MATERIAL WITHIN THE WETLANDS REPLICATION AREA TO 12 INCHES BELOW GRADES ON PLAN, AND STOCKPILE EXCAVATED MATERIAL OUTSIDE THE BUFFER ZONE.
- STRIP ORGANIC MATERIAL FROM THE AREA WITHIN THE WETLAND CROSSING (NOTE: DO NOT USE EXCAVATED ORGANIC MATERIAL OR VEGETATION FROM THE CROSSING AREA IN THE WETLANDS REPLICATION AREA) AND COMPLETE WETLAND RESTORATION EARTHWORK.
- COMPLETE CONSTRUCTION OF WETLAND REPLICATION AREA IN ACCORDANCE WITH THE APPROVED WETLANDS REPLICATION PLAN.
- UPON COMPLETION OF THE WETLANDS REPLICATION AREA, INSTALL STAKED HAY BALES BETWEEN THE REPLICATION AREA AND DISTURBED UPLAND AREAS TO PREVENT SILTATION OF THE REPLICATION AREA.
- INSTALL RETAINING WALLS AND CULVERT AT/TROUGH WETLAND CROSSING AREA AND PLANT WETLAND RESTORATION AREAS PER THE APPROVED RESTORATION PLAN.
- PLACE AND COMPACT SPECIFIED FILL THROUGH WETLAND CROSSING AREA TO THE DESIGN GRADES AND SIMULTANEOUSLY CONSTRUCT BASIN 13 (THE BOTTOM ELEVATION OF THE BASIN SHALL BE HELD AT APPROXIMATELY 184.2 FEET ELEVATION TO PROVIDE POSITIVE DRAINAGE TO THE TEMPORARY OUTLET PIPE).
- ONCE SUFFICIENT FILL IS PLACED THROUGH CROSSING AREA, COMPLETE INSTALLATION OF PERIMETER EROSION CONTROL DEVICES AROUND THE REMAINDER OF PHASES 3 AND 4, PROCEED WITH TREE REMOVAL IN PHASES 3 AND 4, STUMP REMOVAL IN PHASE 3 AND EARTHWORK IN PHASE 3 AS OUTLINED BELOW.
- WHILE COMMENCING OPERATIONS IN THE REMAINDER OF PHASE 3, INSTALL DRAINAGE INFRASTRUCTURE FROM WETLAND CROSSING TO BASIN 13, INSTALL INLET FILTER PROTECTION, COMPLETE UTILITIES, AND STABILIZE SIDE SLOPES THROUGH WETLAND CROSSING AREA.
- PLACE BINDER COURSE OF PAVEMENT THROUGH WETLAND CROSSING AREA, AND PROVIDE TEMPORARY CURB/BERM (OR PERMANENT CURB/BERM TO THE EXTENT FEASIBLE) TO DIRECT STREET RUNOFF TO THE CATCH BASINS.
- UPON REMOVAL OF STUMPS WITHIN THE REMAINDER OF PHASE 3, COMMENCE REMAINING PHASE 3 EARTHWORK OPERATIONS.
- THROUGHOUT THE DURATION OF CONSTRUCTION, PROVIDE STORMWATER CONTROL AND TREATMENT, AND PROVIDE TEMPORARY STABILIZATION MEASURES FOR DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- INITIAL EARTHWORK PRIORITIES THROUGHOUT THE REMAINDER OF PHASE 3 SHALL INCLUDE CONSTRUCTING STORMWATER BASINS 9, 10, 12, AND 31 (TO BE USED AS TEMPORARY SETTLING BASINS), OTHER TEMPORARY STORMWATER COLLECTION/SETTLING AREAS, AND TEMPORARY DIVERSION SWALES.
- FOR BASINS 9, 10, 12, AND 31, WHICH WILL ULTIMATELY SERVE AS PERMANENT INFILTRATION BASINS, THE BOTTOM ELEVATION SHALL BE HELD APPROXIMATELY 12 INCHES ABOVE FINAL GRADE WHILE BEING USED AS A TEMPORARY SETTLING BASIN DURING CONSTRUCTION.
- ESTABLISH INTENDED SUBGRADE AND SIMULTANEOUSLY COMMENCE INSTALLATION OF UNDERGROUND UTILITIES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- INSTALL INLET FILTER PROTECTION ON CATCH BASINS UPON INSTALLATION.
- UPON BRINGING ALL STREET DRAINAGE ON-LINE TO BASIN 13, LOWER FLOOR ELEVATION TO APPROXIMATELY 12 INCHES ABOVE FINAL GRADE AND MAINTAIN TEMPORARY OUTLET.
- COMMENCE CONSTRUCTION OF HOMES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- SPREAD AND COMPACT ROAD BASE AND PLACE BINDER COURSE OF PAVEMENT AS ROADWAY UTILITIES ARE COMPLETED.
- UPON PLACEMENT OF BINDER COURSE, PROVIDE TEMPORARY CURB/BERM (OR PERMANENT CURB/BERM TO THE EXTENT FEASIBLE) TO DIRECT STREET RUNOFF TO THE CATCH BASINS.
- ESTABLISH PERMANENT GROUND COVER/STABILIZATION IN AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED AND ALL OTHER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- UPON PERMANENT STABILIZATION OF THE RESPECTIVE TRIBUTARY AREAS, FINALIZE BASINS 9, 10, 12, AND 31 TO REMOVE ANY ACCUMULATED SEDIMENT, ESTABLISH FINAL GRADES, PROVIDE FINAL SURFACE TREATMENT AND STABILIZATION, AND INSTALL THE PERMANENT OUTLET STRUCTURES.
- MAINTAIN BASIN 13 AS A TEMPORARY SETTLING BASIN THROUGHOUT THE DURATION OF PHASE 4.

PHASE IV CONSTRUCTION SEQUENCE

- MAINTAIN AN UP-TO-DATE COPY OF THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN THE CONSTRUCTION OFFICE AND POST A CONSPICUOUS COPY OF THE NPDES NOTICE OF INTENT OUTDOORS IN THE VICINITY OF THE CONSTRUCTION OFFICE.
- COMPLETE STUMP REMOVAL WITHIN PHASE 4.
- COMMENCE EARTHWORK OPERATIONS IN PHASE 4.
- THROUGHOUT THE DURATION OF CONSTRUCTION, PROVIDE STORMWATER CONTROL AND TREATMENT, AND PROVIDE TEMPORARY STABILIZATION MEASURES FOR DISTURBED AREAS IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES.
- INITIAL PHASE 4 EARTHWORK PRIORITIES SHALL INCLUDE CONSTRUCTING TEMPORARY STORMWATER COLLECTION/SETTLING AREAS AND TEMPORARY DIVERSION SWALES, AND USE OF BASIN 13 AS A TEMPORARY SETTLING BASIN.
- MAINTAIN THE BOTTOM ELEVATION OF BASIN 13 APPROXIMATELY 12 INCHES ABOVE FINAL GRADE WHILE BEING USED AS A TEMPORARY SETTLING BASIN DURING CONSTRUCTION.
- ESTABLISH INTENDED SUBGRADE AND SIMULTANEOUSLY COMMENCE INSTALLATION OF UNDERGROUND UTILITIES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- INSTALL INLET FILTER PROTECTION ON CATCH BASINS UPON INSTALLATION.
- COMMENCE CONSTRUCTION OF HOMES IN AREAS WHERE SUBGRADE HAS BEEN ACHIEVED.
- SPREAD AND COMPACT ROAD BASE AND PLACE BINDER COURSE OF PAVEMENT AS ROADWAY UTILITIES ARE COMPLETED.
- UPON PLACEMENT OF BINDER COURSE, PROVIDE TEMPORARY CURB/BERM (OR PERMANENT CURB/BERM TO THE EXTENT FEASIBLE) TO DIRECT STREET RUNOFF TO THE CATCH BASINS.
- ESTABLISH PERMANENT GROUND COVER/STABILIZATION IN AREAS WHERE FINAL GRADE HAS BEEN ACHIEVED AND ALL OTHER CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED.
- UPON PERMANENT STABILIZATION OF THE RESPECTIVE TRIBUTARY AREAS, FINALIZE BASIN 13 TO REMOVE ANY ACCUMULATED SEDIMENT, REMOVE THE TEMPORARY OUTLET, ESTABLISH FINAL GRADES, AND PROVIDE FINAL SURFACE TREATMENT AND STABILIZATION.

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TAMPA, FL

PROJECT MANAGERS
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS

CIVIL & CONSULTING ENGINEERS
SURVEYORS

REVISIONS

REV	DATE	COMMENT	BY
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PROJECT NO.: W111022
DRAWN BY: CFC
CHECKED BY: JAB/SPD
DATE: 11/01/2011
SCALE: AS NOTED
CAD: J.B./SWPPP Plan Notes and Details 10-24-11

SWPPP PLAN

FOR

Pulte Homes

THE RESIDENCES AT QUAIL RIDGE
LOCATION OF SITE
354 B GREAT ROAD & SKYLINE DR.
TOWN OF ACTON
MIDDLESEX COUNTY, MA

BOHLER ENGINEERING

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S.P. DECOURSEY

PROFESSIONAL ENGINEER
MASSACHUSETTS
LICENSE NO. 1000000000

SHEET TITLE:
SOIL EROSION CONTROL NOTES SHEET

SHEET NUMBER:
6
OF 6

THIS PLAN TO BE UTILIZED FOR SITE SOIL AND EROSION CONTROL PURPOSES ONLY

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