

SCOTT & KATHLEEN
FORMAN
PC 2010/763

RICHARD & BARBARA
SMITH
PC 2007/74

NOTES

- CONTRACTOR TO WORK WITHIN LIMIT OF DISTURBANCE. ANY WORK OUTSIDE THE LIMIT OF DISTURBANCE MAY REQUIRE AN EROSION CONTROL PERMIT FROM NCDEQ.
- LIMIT OF LAND DISTURBANCE = 0.9 AC. NO EROSION CONTROL PERMIT FROM NCDEQ REQUIRED. CONTRACTOR TO INSTALL EROSION CONTROL MEASURES SHOWN ON PLAN.
- IF THE CONTRACTOR NEEDS TO USE BORROW / DISPOSAL SITES FOR THIS PROJECT THOSE SITES MUST COMPLY WITH NCDEQ RULES FOR LAND DISTURBANCE.
- CONTRACTOR TO SECURE TEMPORARY CONSTRUCTION EASEMENT (OR AGREEMENT) FOR WORK ON ADJACENT PRIVATE PROPERTY(S), IF NECESSARY.
- CONTRACTOR TO VERIFY FINAL ELEVATIONS WITH ACTUAL FIELD CONDITIONS. ELEVATION SHOWN HERE BASED ON ASSUMED DATUM.
- DETAILED DESIGN OF ANY RETAINING WALLS (IF REQUIRED) TO BE BY CONTRACTOR.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING WALLS. ROOF LEADERS SHOULD DIRECT DISCHARGE TO THE DRAINAGE SYSTEM AROUND THE BUILDING OR WHERE THE GRADE SLOPES AWAY FROM THE BUILDING (SEE NOTE #8).
- CONTRACTOR TO VERIFY ROOF DOWNSPOUT SIZES AND LOCATIONS WITH ARCHITECTURAL DRAWINGS. FOR THE ROOF DRAIN COLLECTION SYSTEM, CONTRACTOR SHALL: 1) USE PVC SCHEDULE 40 (OR HDPE) PIPE AND FITTINGS, 2) PROVIDE MIN. PIPE SLOPE OF 2%, 3) PROVIDE 12 INCHES MIN. COVER (WHERE POSSIBLE), 4) USE PIPE DIAMETER EQUAL TO THE DOWNSPOUT SIZE (4") OR AS SPECIFIED ON THIS PLAN, AND 5) CONNECT TO THE PROPOSED 15" HDPE STORM DRAINAGE PIPE WITH APPROPRIATE WATERTIGHT FITTING (CONNECT INTO TOP HALF OF 15" PIPE) OR INTO THE PROPOSED STORM DRAIN BOX AS SHOWN PER THE DRAWING. THE CONTRACTOR SHALL INSTALL 2'-45" VERTICAL BENDS AT THE BUILDING DOWNSPOUT CONNECTION.
- PROPOSED CONTOUR LINES ARE SHOWN AT 1' INCREMENTS.
- CONTRACTOR TO INSTALL STORM DRAIN SYSTEM PER NCDOT STANDARDS.

CONSTRUCTION SEQUENCE

- THE PROPOSED LIMIT OF DISTURBANCE IS LESS THAN ONE ACRE, THEREFORE, A GRADING PERMIT FROM NCDEQ IS NOT REQUIRED.
- CONTRACTOR TO MAINTAIN ALL EROSION CONTROL MEASURES ACCORDING TO MAINTENANCE PLAN THROUGHOUT CONSTRUCTION.
- CLEAR ONLY AS NECESSARY TO INSTALL THE TEMPORARY EROSION CONTROL MEASURES.
- INSTALL TEMPORARY SILT FENCE IN LOCATIONS AS SHOWN ON PLANS. INSTALL SILT FENCE OUTLETS AS SHOWN ON PLANS AND OTHER AREAS WHERE CONCENTRATED FLOW DISCHARGES AT SILT FENCE.
- ROUGH GRADE SITE. PROVIDE TEMPORARY SEEDING IF STABILIZATION WILL NOT OCCUR WITHIN 15 DAYS AFTER ROUGH GRADING IS COMPLETE.
- INSTALL ALL STORM DRAINAGE SYSTEM AND BACKFILL. INSTALL TEMPORARY INLET PROTECTION AROUND THE NEW STORM BOXES AS SHOWN.
- BEGIN BUILDING CONSTRUCTION ON EXISTING CONCRETE SLAB. ENSURE POSITIVE DRAINAGE AWAY FROM BUILDING THROUGHOUT CONSTRUCTION.
- INSTALL UNDERGROUND UTILITY SERVICES.
- FINE GRADE DRIVES. PREPARE SUBGRADE, INSTALL ABC BASE COURSE, ASPHALT PAVEMENT / CONCRETE LAYERS.
- FINE GRADE REMAINING LANDSCAPE AREAS. PROVIDE PERMANENT GROUND COVER PER SCHEDULE ON THIS PLAN SHEET AND LANDSCAPE PLAN.
- WHEN THE SITE IS FULLY STABILIZED, REMOVE TEMPORARY EROSION CONTROL MEASURES.

MAINTENANCE PLAN

THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING EROSION CONTROL DEVICES THROUGHOUT THE PROJECT DURATION.

ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RAINFALL-PRODUCING RAINFALL OR RAINFALL > 0.5 INCHES IN 24 HOURS BUT IN NO CASE LESS THAN ONCE EVERY 7 CALENDAR DAYS. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN ALL DEVICES AS DESIGNED. RECORDS OF INSPECTIONS FOR PREVIOUS 30 DAYS SHALL REMAIN ON SITE AND AVAILABLE FOR AGENCY INSPECTORS DURING NORMAL WORKING HOURS.

SILT FENCE:

- SEDIMENT SHALL BE REMOVED FROM BEHIND THE SEDIMENT FENCE WHEN IT BECOMES ABOUT 0.5 FT DEEP AT THE FENCE. THE FENCE SHALL BE REPAIRED AS REQUIRED TO MAINTAIN A SUFFICIENT BARRIER.
- SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, DECOMPOSE, TEAR, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
- AFTER ALL AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT. GRADE AREA TO GRADING PLAN OR BLEND WITH ADJACENT GRADES. STABILIZE AREA.

SILT FENCE OUTLET:

- CLEAR THE HARDWARE CLOTH OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. BE CAREFUL NOT TO DAMAGE OR UNDERCUT THE HARDWARE CLOTH.
- REPLACE STONE AS NEEDED.

TEMPORARY INLET PROTECTION:

- CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. BE CAREFUL NOT TO DAMAGE OR UNDERCUT THE WIRE MESH.
- REPLACE STONE AS NEEDED.

CONSTRUCTION ENTRANCE:

- MAINTAIN GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE.
- IMMEDIATELY REMOVE ALL MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

GRASS LINED DITCHES/CHANNELS/SWALES:

- DURING GRASS ESTABLISHMENT PERIOD, INSPECT AFTER EVERY RAINFALL.
- AFTER GRASS HAS ESTABLISHED, INSPECT PERIODICALLY AND AFTER HEAVY RAINFALL. IMMEDIATELY MAKE REPAIRS.
- PAY CLOSE ATTENTION TO INLET AND OUTLET SECTIONS WHERE CONCENTRATED FLOW ENTERS.
- GRASS SHOULD BE MAINTAINED IN A HEALTHY VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION.

BUILDING WASTES HANDLING:

- NO PAINT OR LIQUID WASTES TO BE DISCHARGED INTO STREAMS OR STORM DRAINS.
- DEDICATED AREAS FOR DEMOLITION, CONSTRUCTION, AND OTHER WASTES SHALL BE LOCATED 50' FROM STORM DRAINS UNLESS NO REASONABLE ALTERNATIVES EXIST.
- EARTHEN MATERIAL STOCKPILES SHALL BE LOCATED 50' FROM STREAMS UNLESS NO REASONABLE ALTERNATIVES EXIST.
- CONCRETE MATERIALS AND WASHOUT AREAS MUST BE CONTROLLED SO THERE IS NO DISCHARGE TO SURFACE WATERS, WETLANDS, OR BUFFERS. SEE PLAN FOR LOCATION OF CONCRETE WASHOUT AREA.

SEEDING SCHEDULE

PERMANENT SEEDING

SPECIES:
Bermuda or Centipede
CONSULT CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUEDED AREAS.

TEMPORARY SEEDING

*TEMPORARY SEEDING IS REQUIRED IF PERMANENT SEEDING CAN NOT BE DONE WITHIN 14 DAYS OF COMPLETION OF GRADING.
Winter (Oct 26 - Jan 31): Rye (grain) @ 120 lbs/acre
Summer (April 1 - Aug 19): German Millet @ 40 lbs/acre

SEEDBED PREPARATION

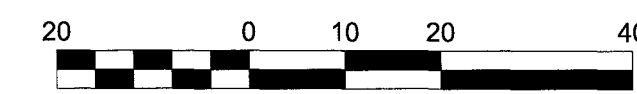
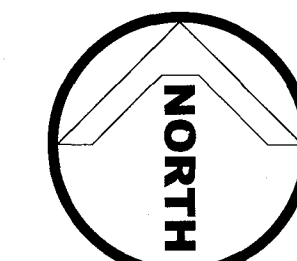
- CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, IF AVAILABLE.
- RIP THE ENTIRE AREA TO 6 INCHES DEEP.
- REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
- APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPERPHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW).
- CONTINUE TILLAGE UNTIL WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
- SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH EQUIPMENT OR CULTIPACK AFTER SEEDING.
- MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
- INSPECT ALL SEEDBED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF STAND SHOULD BE OVER 80% DAMAGED REESTABLISH THE FOLLOWING LIME, FERTILIZER, AND SEEDING RATES.
- CONSULT CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

APPLICATION RATES:
AGRICULTURAL LIMESTONE - 2 TONS/ACRE
FERTILIZER - 10-10-10 ANALYSIS @ 900 LBS/ACRE
SUPERPHOSPHATE - 500 LBS/ACRE OF 20% ANALYSIS
MULCH - 2 TONS (+/- 80 BALES) STRAW/ACRE
ANCHOR - USE LIQUID ASPHALT @ 400 GALS/ACRE
OR EMULSIFIED ASPHALT @ 300 GALS/ACRE

RECEIVED

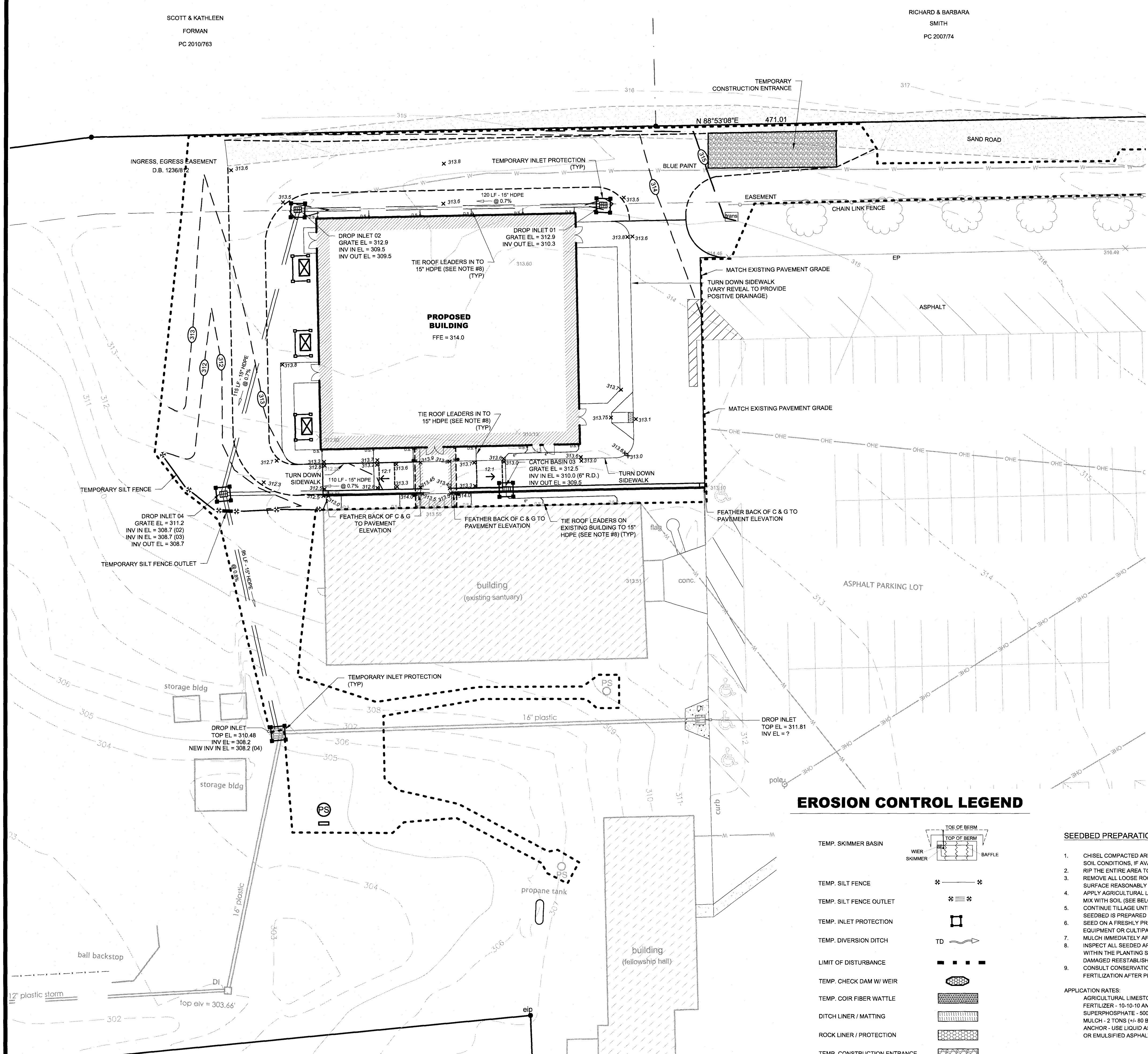
JAN 16 2018

CONSTRUCTION SYSTEMS, INC.



EROSION CONTROL LEGEND

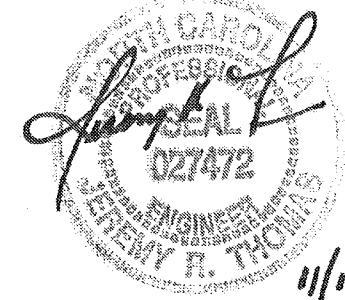
- TEMP. SKIMMER BASIN
- TEMP. SILT FENCE
- TEMP. SILT FENCE OUTLET
- TEMP. INLET PROTECTION
- TEMP. DIVERSION DITCH
- LIMIT OF DISTURBANCE
- TEMP. CHECK DAM W/ WEIR
- TEMP. COIR FIBER WATTLE
- DITCH LINER / MATTING
- ROCK LINER / PROTECTION
- TEMP. CONSTRUCTION ENTRANCE



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GRADING, STORM DRAINAGE, AND EROSION CONTROL PLAN

REVISIONS

- 15 DEC 2017: REVISIONS BASED ON OWNER CHANGES AND COUNTY DRB COMMENTS.
- 12 JAN 2018: ADDED SEPTIC SYSTEM DESIGN, SHEETS C9 AND C10.

AGENCY REVIEW ONLY

Scale: NTS	Drawn by: JRT
Sheet: C5 of 10	Designed by: JRT
Project Number: 17-020	Reviewed by: JRT
Date: 01 NOV 2017	