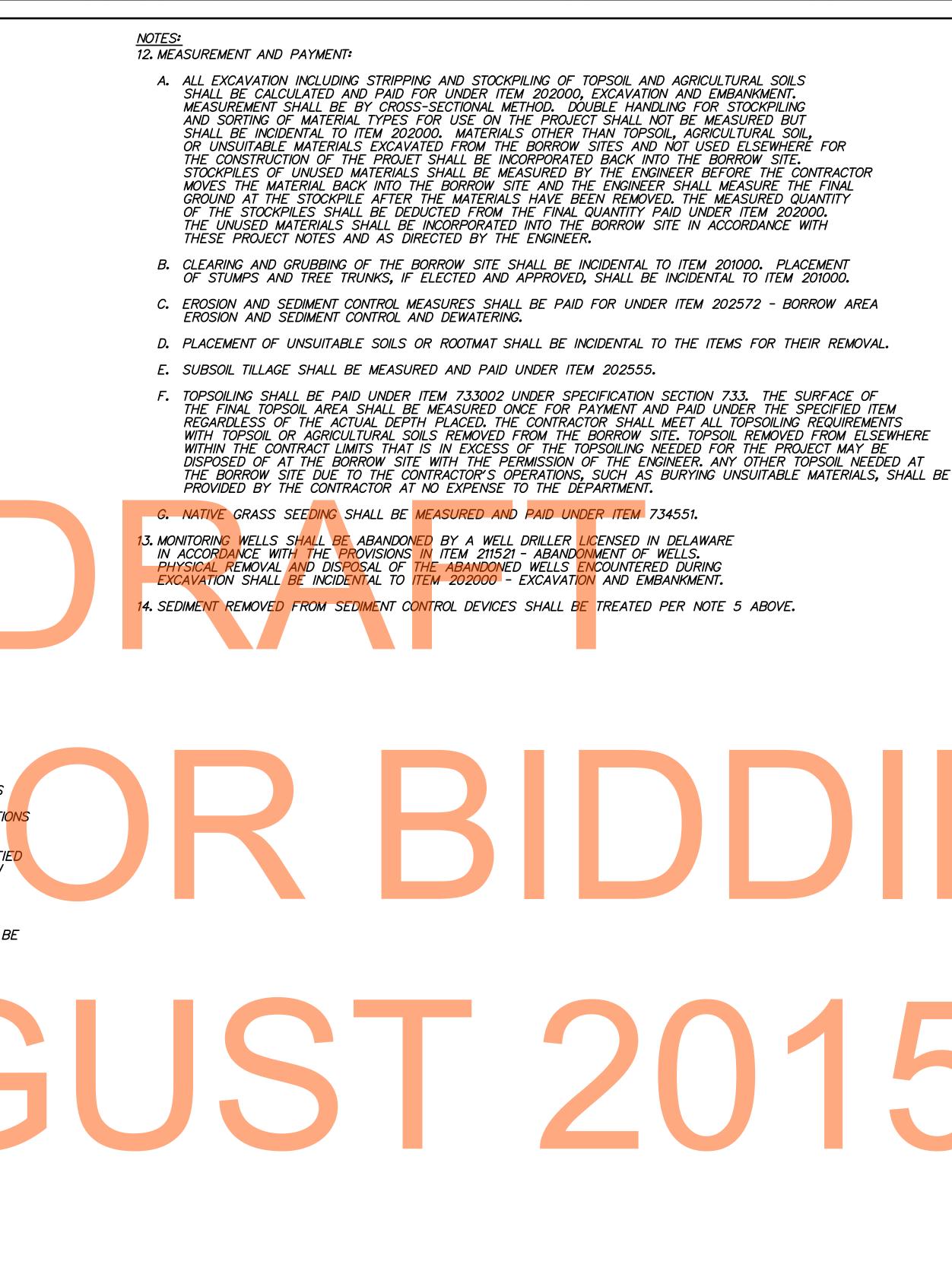
NOTES: 1. THE LIMITS OF GRADING FOR THE BORROW SITES AS SHOWN ON GR-02, GR-03 AND GR-04 SHALL BE CONSIDERED THE MAXIMUM LIMITS OF FINAL GRADING FOR THE BORROW SITES. SHOULD LESS BORROW MATERIAL BE REQUIRED, THE SITES SHALL BE EXCAVATED TO A SHALLOWER ELEVATION OR THE LIMITS OF GRADING SHALL BE REDUCED. THE CONTRACTOR SHALL SUBMIT A REVISED FINAL GRADING PLAN TO THE ENGINEER FOR APPROVAL. THE LIMITS OF GRADING FOR THE BORROW SITE AS SHOWN ON GR-05 SHALL BE CONSIDERED THE ACTUAL LIMIT OF FINAL GRADING. 2. EXCAVATION OR DEWATERING SHALL NOT AFFECT THE LOCAL GROUND WATER TABLE. THE BOTTOM LIMIT OF EXCAVATION OR ANY OTHER WORK CANNOT EXCEED: A. 12" BELOW THE FINAL GRADING SHOWN ON GR-02, OR ELEVATION 30, WHICHEVER IS LESS; B. 12" BELOW THE FINAL GRADING SHOWN ON GR-03 AND GR-04, OR ELEVATION 27, WHICHEVER IS LESS; AND C. 12" BELOW THE FINAL GRADING SHOWN ON GR-05; IN ACCORDANCE WITH STIPULATIONS CONTAINED IN THE PROJECT'S BIOLOGICAL ASSESSMENT, PERMITS, AND RECORD OF DECISION. TRENCHING FOR CONSTRUCTION OF UTILITIES OR PIPES INCLUDED IN THE CONTRACT DÓCUMENTS IS EXCLUDED FROM THIS REQUIREMENT. TRENCHING OR OTHER METHODS FOR DEWATERING THE BORROW SITES IS INCLUDED IN THIS REQUIREMENT. 3. NO EXCAVATION IS TO OCCUR WITHIN 50 FEET OF ANY WOODS LINE OR PROPERTY LINE, EXCEPT AT THE BORROW SITE OUTFALL LOCATION AS SHOWN ON GR-02 THROUGH GR-05. HEDGEROWS AND OLD FIELDS ARE NOT CONSIDERED TO BE WOODS LINES. 4. EXISTING BORROW SITE TOPSOIL AND AGRICULTURAL SOIL SHALL BE STRIPPED, STOCKPILED, AND QUARANTINED FOR RE-USE ON THE BORROW SITE, AGRICULTURAL SOIL IS DEFINED AS THE TOP 9-INCHES OF SOIL OBTAINED FROM AN ACTIVE FARM FIELD OR RECENTLY ABANDONED FARM FIELD (LESS THAN 2 YEARS FALLOW OR ABANDONED).). AGRICULTURAL SOILS SHALL BE TREATED AS TOPSOIL AS DESCRIBED IN SECTION 202. THE SOURCE OF THE AGRICULTURAL SOIL MUST HAVE BEEN IN CROP. NO TOPSOIL OR AGRICULTURAL SOIL REMOVED FROM THE BORROW SITE SHALL BE PLACED IN ANOTHER LOCATION. ALL OF THE TOPSOIL AND AGRICULTURAL SOIL SHALL BE RE-USED ON THE SITE. 5. FOR THE BORROW SITES SHOWN ON GR-02, GR-03, AND GR-04, FINAL INTERNAL BORROW SITE SIDE SLOPE GRADES SHALL BE A MAXIMUM OF 5:1. WITH THE APPROVAL OF THE ENGINEER, SLOPES MAY BE OVEREXCAVATED TO 3:1 AND BACKFILLED WITH TOPSOIL, AGRICULTURAL SOIL, ROOTMAT, OR UNSUITABLE SOILS TO CREATE A FINAL SLOPE OF 5:1. OVEREXCAVATED SLOPES SHALL ALSO INCLUDE A BENCH AS APPROVED BY THE ENGINEER TO PREVENT SLIPPAGE OF MATERIALS SUBSEQUENTLY PLACED. UNSUITABLE SOIL IS DEFINED AS A-4, A-5, A-6, OR A-7 SOILS, AASHTO CLASSIFICATION. AGRICULTURAL SOIL, ROOTMAT AND UNSUITABLE SOILS MAY BE IMPORTED TO THE BORROW SITE FROM WITHIN THE CONTRACT LIMITS AND PLACED ABOVE THE MAXIMUM EXCAVATION LIMITS AS DEFINED IN NOTE 2. UNSUITABLE SOILS AND ROOTMAT SHALL BE BURIED A MINIMUM OF 18 INCHES BELOW FINAL GRADE WITH THE 18 INCHES CONSISTING OF TOPSOIL OR AGRICULTURAL SOILS. UNSUITABLE SOILS AND ROOTMAT SHALL BE PLACED SUCH THAT INTERNAL SLOPES AND GRADING WITHIN THE BORROW SITES SHALL BE CONTINUOUS SMOOTH LINES AND GRADES REPRESENTING A NATURALIZED CONDITION AND SHALL NOT APPEAR DISTURBED, MOUNDED, OR PILED, AS SOLELY DETERMINED BY THE ENGINEER. MATERIALS PLACED IN THESE OVER-EXCAVATED AREAS SHALL BE APPROVED BY THE ENGINEER AND COMPACTED AS DIRECTED BY THE ENGINEER. TOPOGRAPHIC SURVEY ON THE FINAL OVEREXCAVATED SLOPES FOR MEASUREMENT OF FINAL EXCAVATED QUANTITIES SHALL BE PERFORMED BEFORE PLACING ANY UNSUITABLE MATERIALS OR ROOTMAT. TOPOGRAPHIC SURVEY ON THE FINAL SLOPES OF THE UNSUITABLE MATERIALS OR ROOTMAT PLACED SHALL BE PERFORMED PRIOR TO PLACING ANY TOPSOIL OR AGRICULTURAL SOIL TO ENSURE THAT THESE MATERIALS ARE BURIED A MINIMUM OF 18" BELOW FINAL GRADES. THE CONTRACTOR SHALL SUBMIT A REVISED GRADING PLAN TO THE ENGINEER FOR APPROVAL. 6. TRASH, CONSTRUCTION DEBRIS, PILE CUTOFFS, ASPHALT MILLINGS, ROCKS AND STONES AND OTHER CONSTRUCTION WASTE GENERATED ON THE CONTRACT SHALL NOT BE BURIED IN THE BORROW SITE OR THE SIDE SLOPES OF THE BORROW SITE. WITH PERMISSION AND UNDER THE DIRECTION OF THE ENGINEER, TREE STUMPS AND LARGE SECTIONS OF TREE TRUNKS CAN BE PLACED ON THE FINAL SOIL SURFACE. THE MINIMUM DISTANCE BETWEEN THE PLACED STUMPS/TRUNKS SHALL BE 35 FEET. STUMPS AND TRUNKS SHALL NOT BE PLACED IN PILES. TREE STUMP PLACEMENT IS OPTIONAL AND NOT MANDATORY. 7. UNDER FINAL CONDITIONS THE BORROW SITES SHALL BE GRADED TO DRAIN. WATER SHOULD NOT STAND ON THE SITES FOLLOWING RAIN EVENTS BUT SHALL BE CONVEYED VIA STABLE CHANNELS, SWALES, OR STABLE OVERLAND FLOW TO ADJACENT WETLANDS AND FORESTED AREAS. THE CONTRACTOR SHALL NOT CHANGE THE BORROW SITE OUTFALL LOCATIONS AS SHOWN ON GR-02 THROUGH GR-05. 8. FOLLOWING EXTRACTION OF BORROW, AND PRIOR TO SECTION 733 - TOPSOILING, SUBSOILS SHALL BE TILLED AS SPECIFIED IN SPECIAL PROVISION 202555 - SUBSOIL TILLAGE. SUBSOILS SHALL BE TILLED THROUGH THE EXTENT OF THE BORROW SITES, EXCEPT THAT NO SUBSOIL TILLAGE SHOULD BE PERFORMED: A. WITHIN STORMWATER MA<mark>NAG</mark>EMENT PONDS. WITHIN 15' OF THE TOE OF SLOPE OF STORMWATER MANAGEMENT POND EMBANKMENTS, OR C. WITHIN 10' OF UNDERGROUND UTILITIES. TOPOGRAPHIC SURVEY ON THE FINAL EXCAVATED SLOPES FOR MEASUREMENT OF FINAL EXCAVATED QUANTITIES SHALL BE PERFORMED BEFORE THE SUBSOILS ARE TILLED. 9. A MINIMUM OF 6 INCHES OF TOPSOIL SHALL BE PLACED OVER ALL EXCAVATED AND DISTURBED AREAS IN CONFORMANCE WITH SECTION 733 - TOPSOILING. LOCAL AGRICULTURAL SOILS GENERATED WITHIN THE CONTRACT LIMITS SHALL BE CONSIDERED ACCEPTABLE TOPSOIL MATERIAL. WITH THE PERMISSION OF THE ENGINEER. THE TOPSOILING DEPTH MAY EXCEED THE MINIMUM 6-INCH DEPTH, BUT THE FINAL ELEVATION AT ANY LOCATION SHALL NOT EXCEED THE ORIGINAL GROUND ELEVATION AT THE START OF THE PROJECT. FOLLOWING THE FINAL TOPSOILING, INTERNAL SLOPES AND GRADING WITHIN THE BORROW SITE SHALL BE CONTINUOUS SMOOTH LINES AND GRADES REPRESENTING A NATURALIZED CONDITION AND SHALL NOT APPEAR DISTURBED, MOUNDED, OR PILED, AS SOLELY DETERMINED BY THE ENGINEER. NO INTERNAL GRADE SHALL EXCEED 5:1. 10. AT THE CONCLUSION OF ALL GRADING AND TOPSOIL PLACEMENT OPERATIONS, ALL DISTURBED AREAS SHALL BE SEEDED WITH ITEM 734551 - NATIVE GRASS SEEDING - NO MOW MIX. TIMING FOR THE SEEDING OPERATIONS SHALL BE PER THE SPECIFICATION. SEPTEMBER 1ST TO NOVEMBER 15TH. SEED SHALL BE DISCED INTO THE SOIL A MINIMUM OF 6 INCHES DEEP IN THREE PASSES WITH EACH PASS 90 DEGREES TO THE PREVIOUS PASS. THE COST OF DISCING SHALL BE INCIDENTAL TO ITEM 734551 - NATIVE GRASS SEEDING: NO MOW MIX. 11. SOILS MEETING GRADATION REQUIREMENTS FOR BORROW TYPES A, C, D, AND F ARE AVAILABLE IN THE BORROW SOURCES FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING THE LOCATION OF QUALIFYING MATERIALS AND SORTING AND STOCKPILING THESE MATERIALS AS NEEDED TO COMPLETE THE WORK. NO COMPENSATION WILL BE PROVIDED FOR ACTIVITIES ASSOCIATED WITH ACQUISITION OF THESE MATERIALS FROM OFF-SITE DUE TO A FAILURE TO USE MATERIAL AVAILABLE ON-SITE. GEOTECHNICAL DATA WILL BE PROVIDED BY THE DEPARTMENT TO ASSIST IN THE LOCATION OF BORROW TYPES, BUT IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE GRADATION OF THE MATERIALS.

DELAWARE **DEPARTMENT OF TRANSPORTATION** ADDENDUMS / REVIS



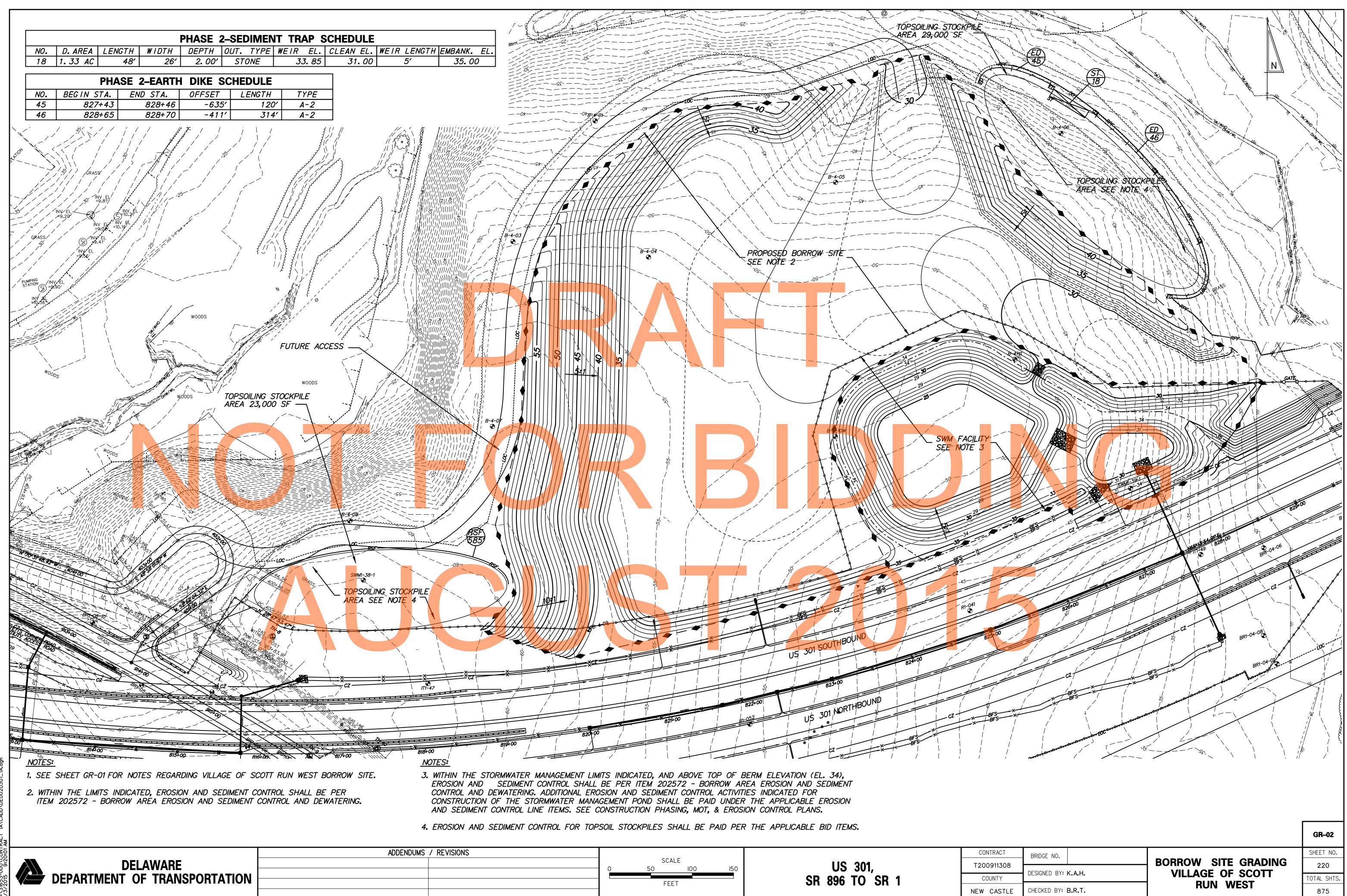
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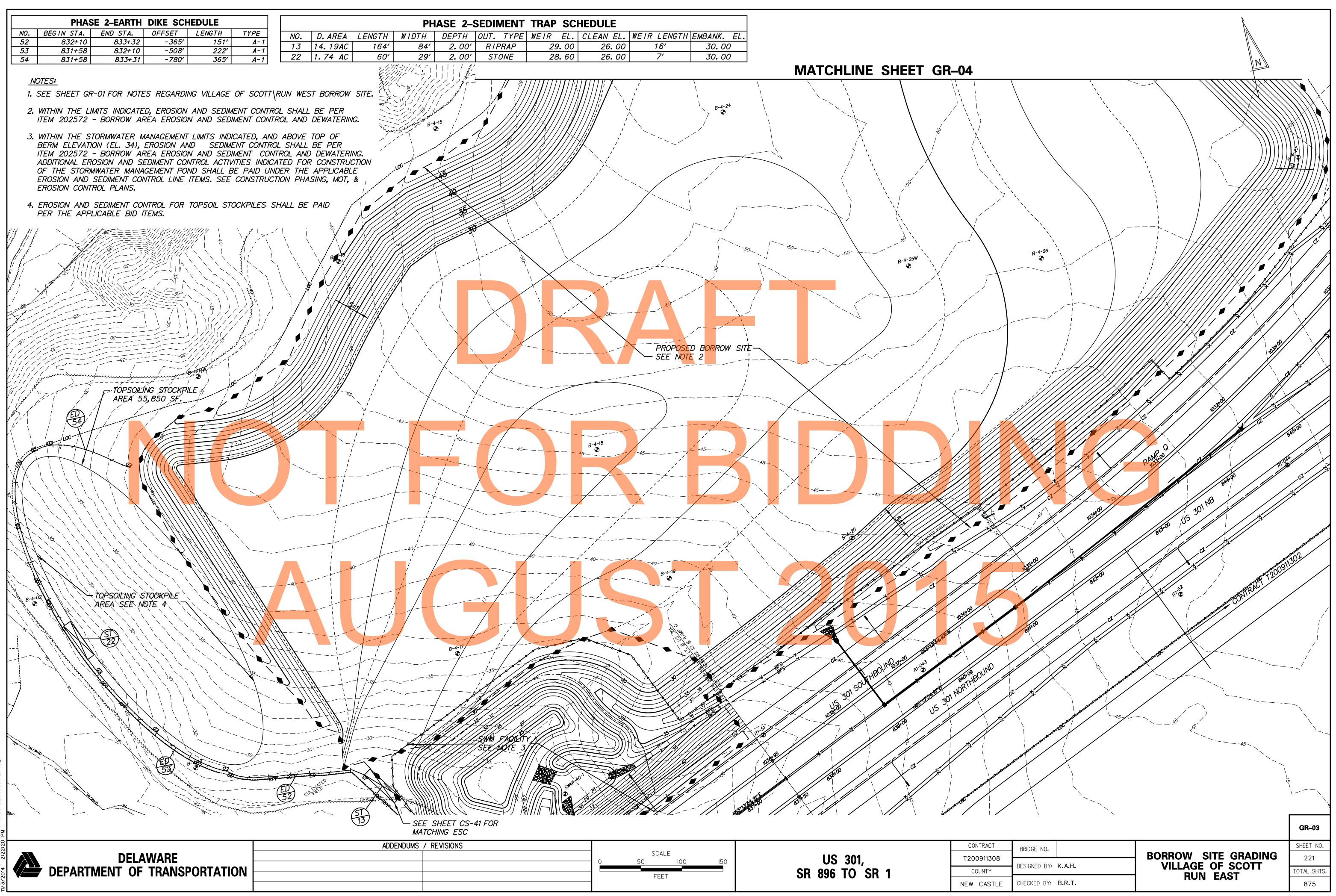
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BORROW SITE NOTES

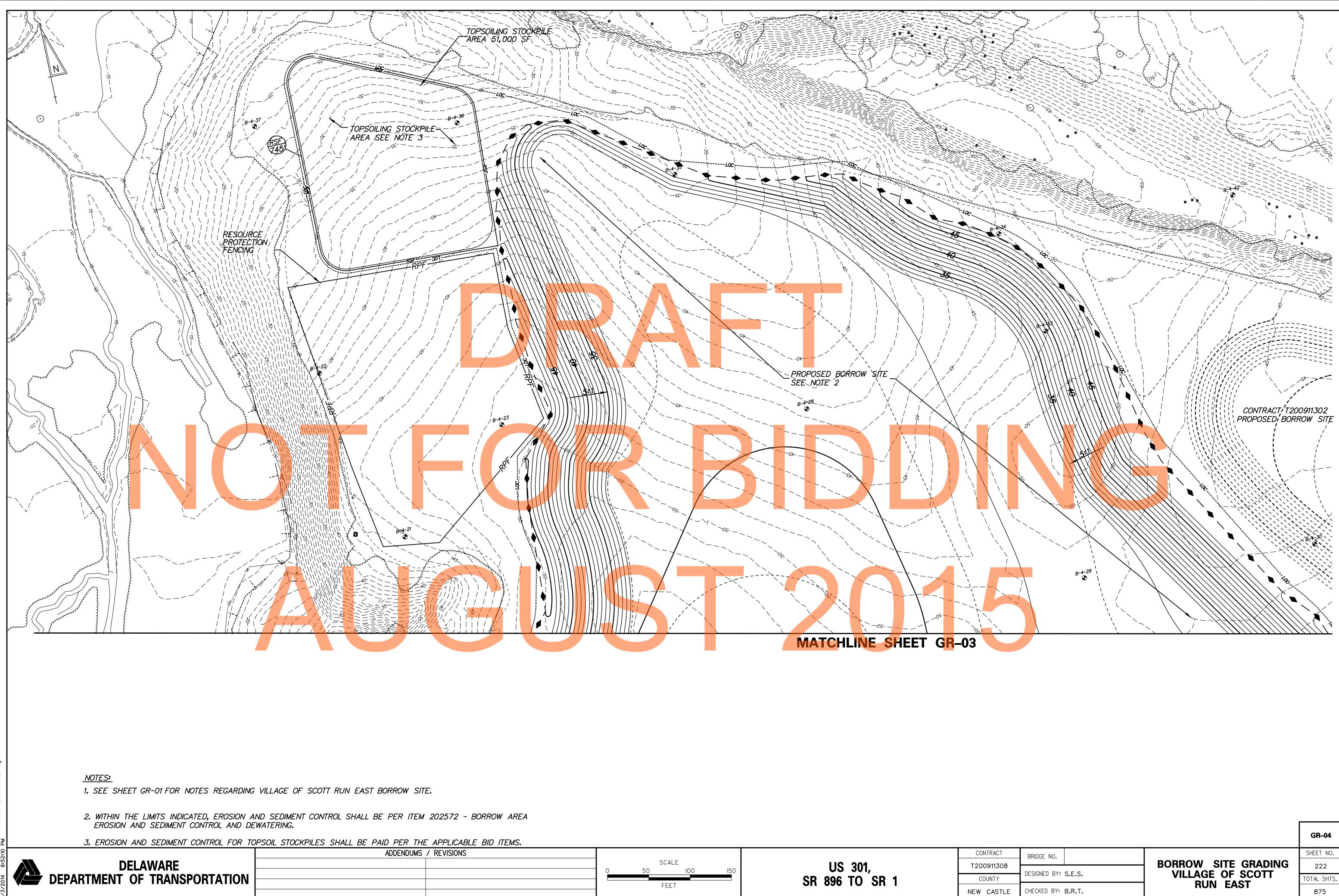
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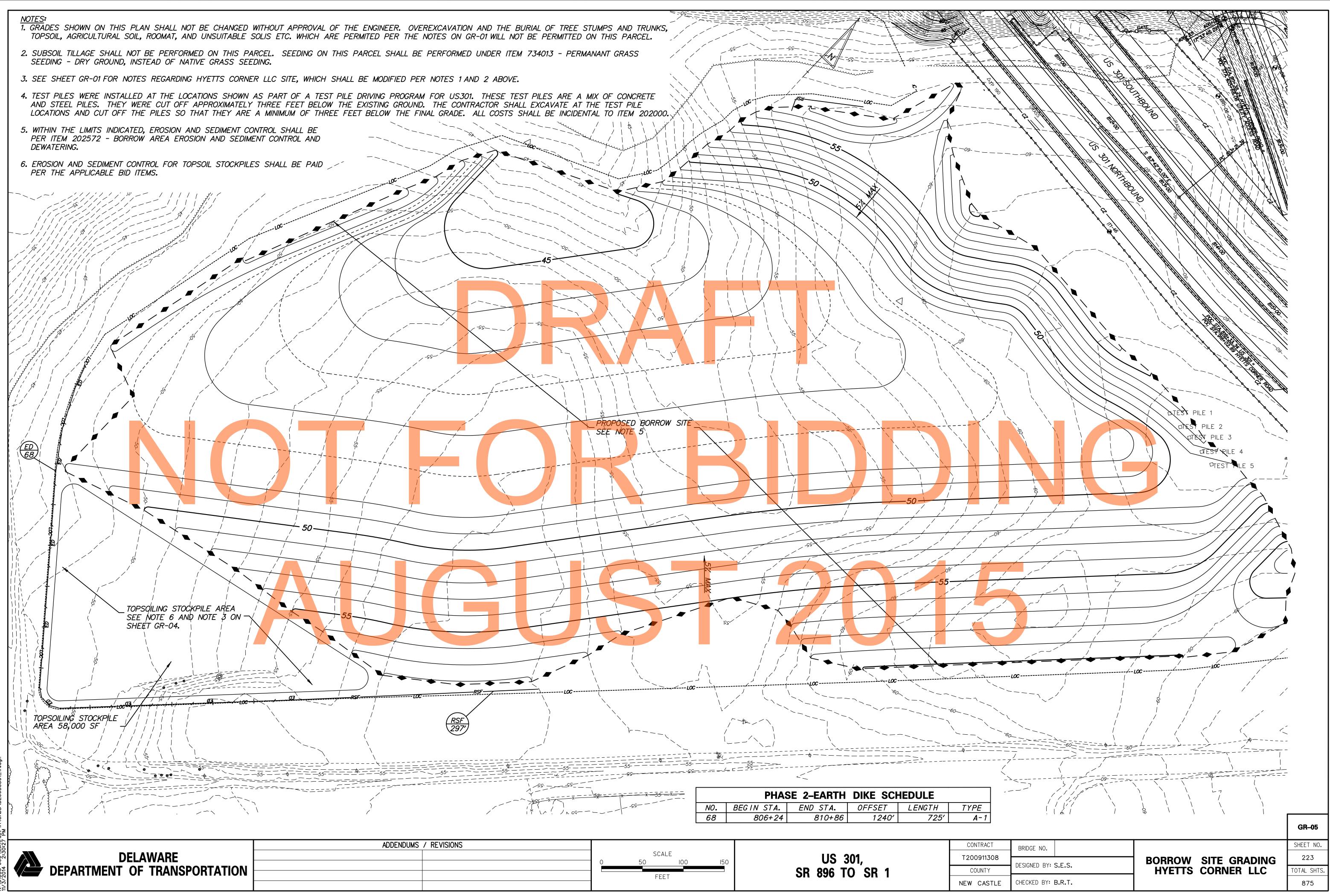
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