

**OKLAHOMA DEPARTMENT OF TRANSPORTATION
ROADWAY DESIGN DIVISION**

**PAY QUANTITY NOTES
AND
GENERAL CONSTRUCTION NOTES
FOR USE WITH 2019 SPECIFICATIONS**

Added R-16 Note, to be read as follows: “Payment for this item will be the theoretical cross section multiplied by the installed length.” This note shall always be tied to 303(A) AGGREGATE BASE TYPE A; 303(A) AGGREGATE BASE TYPE A, PLANT MIXED; 303(B) AGGREGATE BASE TYPE B; 303(B) AGGREGATE BASE TYPE B, PLANT MIXED; 303(C) AGGREGATE BASE TYPE C; or 303(C) AGGREGATE BASE TYPE C, PLANT MIXED.

Added R-19 Note, to be read as follows: “Price Bid to include the chemical additive(s) to achieve the rate specified for the appropriate soil classification as specified in the most current ODOT Materials Division OHD L-50. It is the responsibility of the contractor to classify the soil and determine the appropriate additive(s).” This note shall always be tied to 307(K) STABILIZED SUBGRADE.

All R-numbers were revised to accommodate these two additional notes.

R-notes should only be revised to the extent of filling in blanks; otherwise, a special note should be used with a different numbering system (i.e. without an R). Some R-notes can be tied to multiple pay items.

G-note numbers are only for reference and are not necessary in the plans. Be sure to read text of the note to know if it applies to your project.

At the end of the notes is a reference table showing a list of pay items and possible notes which can be applied to them.

Roadway Design Division personnel may access all of the notes in MicroStation, Word, and Adobe formats on the Y drive at:
Y:\Standards\MISCELLANEOUS\Archive\2019 Roadway Notes

Those people with ProjectWise access, can find the notes, in Microstation, Word and Adobe formats, under this folder:
ODOT Projects > Documents > Standards > 2019 Roadway Notes

Additionally, the notes can be found, in pdf format, on Roadway Design’s website, towards the bottom of the webpage at:

<https://oklahoma.gov/odot/business-center/pre-construction-design/roadway-design.html>

PAY QUANTITY NOTES

- (R-1) **PAYMENT FOR THIS ITEM WILL BE BASED ON PLAN QUANTITY ONLY. SEE SECTION 109.01B OF THE STANDARD SPECIFICATIONS.**
- Can be tied to many pay items at the discretion of the designer.
- (R-2) **ESTIMATED QUANTITY ONLY. TO BE USED IN A MANNER APPROVED BY THE ENGINEER, FOR MISCELLANEOUS GRADING.**
- Can be tied to 202(A) UNCLASSIFIED EXCAVATION, 202(D) UNCLASSIFIED BORROW, when no cross sections are included with plans.
- (R-3) **INCLUDES ____ C.Y. FOR DRIVEWAYS, RETURNS, DIKES, AND MISCELLANEOUS EARTHWORK.**
- Can be tied to 202(D) UNCLASSIFIED BORROW or 202(F) EMBANKMENTS, when additional quantity is needed for items not shown in cross sections.
- (R-4) **AN ESTIMATED QUANTITY OF ____ C.Y. TOPSOIL TO BE RESERVED FOR REPLACEMENT OF APPROXIMATELY 5" ON COMPLETED FORESLOPES, DITCHES, AND BACKSLOPES. THIS QUANTITY IS INCLUDED IN THE EARTHWORK BALANCE. ANY ADDITIONAL EXCAVATION REQUIRED IN CUT SECTIONS TO ALLOW FOR PLACEMENT OF TOPSOIL TO FINAL GRADE, SHALL BE INCLUDED IN THE PRICE BID.**
- Always tie to 205(A) TYPE A SALVAGED TOPSOIL and 205(B) TYPE B SALVAGED TOPSOIL.
- (R-5) **WHEN NO PROFILE IS SHOWN, THE ENGINEER SETS THE GRADE ELEVATION, TO OBTAIN MINOR GRADE CORRECTIONS ON EXISTING ROAD.**
- Can be tied to 209 MACHINE GRADING when no profile grade line is shown in plans.
- (R-6) **FOR ____ PRICE BID TO INCLUDE COST OF ____ FERTILIZER, ESTIMATED AT ____ POUNDS PER ____.**
- Can be tied to 205(A) TYPE A SALVAGED TOPSOIL, 205(B) TYPE B SALVAGED TOPSOIL, 230(A) SOLID SLAB SODDING, 230(B) MULCH SODDING, 230(C) ROW SPRIGGING, 230(D) BROADCAST SPRIGGING (METHOD A), 230(E) BROADCAST SPRIGGING (METHOD B), 232(A) SEEDING METHOD A, 232(B) SEEDING METHOD B, and/or 232(C) SEEDING METHOD C. Fertilizer type and rate shall be as directed by the Resident Engineer. This note may include multiple pay items and application rates.
- (R-7) **FOR ____ PRICE BID TO INCLUDE COST OF WATERING, ESTIMATED AT ____ GALLONS PER ____.**
- Can be tied to 230(A) SOLID SLAB SODDING, 230(B) MULCH SODDING, 230(C) ROW SPRIGGING, 230(D) BROADCAST SPRIGGING (METHOD A), 230(E) BROADCAST SPRIGGING (METHOD B), 232(A) SEEDING METHOD A, 232(B) SEEDING METHOD B, and/or 232(C) SEEDING METHOD C. Rate shall be as directed by the Resident Engineer. This note may include multiple pay items and application rates.
- (R-8) **PRICE BID TO INCLUDE COST OF ALL NECESSARY MAINTENANCE, MAINTAINING DEVICE IN PROPER UPRIGHT POSITION, REMOVAL OF DEVICE, AND REMOVAL OF SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE DEVICE.**
- Always tie to 221(A) TEMPORARY SLOPE DRAIN, 221(B) TEMPORARY SILT FENCE, 221(C) TEMPORARY SEDIMENT FILTER, 221(C) REINFORCED SILT FENCE, 221(D) TEMPORARY SEDIMENT BASIN, 221(E) TEMPORARY SILT DIKE, 221(F) TEMPORARY ROCK FILTER DAM TYPES 1-4, and 221(G) TEMPORARY FIBER LOG.
- (R-9) **ESTIMATED AT ____ GALLONS PER SQ. YD. OF SODDING AND/OR SPRIGGING.**
- Always tie to 230(F) WATERING for watering of Sodding and/or Sprigging. Use 40 gallons per S.Y. unless field requests otherwise.
- (R-10) **ESTIMATED AT ____ K-GALLONS PER ACRE OF PERMANENT SEEDING.**

- Can be tied to 230(F) WATERING when project includes Permanent Seeding. Use 120 K-gallons per Acre, for Bermuda grass in Division 6; otherwise check with the Resident Engineer.
- (R-11) THE QUANTITIES ESTIMATED FOR TEMPORARY EROSION AND SEDIMENT CONTROL IS _____ ACRES.
- Always tie to 233(A) VEGETATIVE MULCHING, 233(B) EXCELSIOR MULCHING, and 233(C) WOOD CELLULOSE FIBER.
- (R-12) ESTIMATED AT 200 POUNDS OF 10-20-10 FERTILIZER PER 1,000 SQ. YDS. OF SODDING AND/OR SPRIGGING.
- Can be tied to 234(A) FERTILIZING (10-20-10) when used for Sodding or Sprigging.
- (R-13) ESTIMATED AT _____ POUNDS OF 10-20-10 FERTILIZER PER ACRE OF PERMANENT SEEDING.
- Can be tied to 234(A) FERTILIZING (10-20-10) when used with permanent seeding. Rate as directed by the Resident Engineer.
- (R-14) ESTIMATED AT 150 POUNDS OF 18-46-0 FERTILIZER PER ACRE OF AREA ON WHICH TOPSOIL IS TO BE REPLACED.
- Always tie to 234(A) FERTILIZING (18-46-0).
- (R-15) QUANTITY BASED ON TWO APPLICATIONS.
- Can be tied to 241 MOWING at the discretion of the designer.
- (R-16) PAYMENT FOR THIS ITEM WILL BE THE THEORETICAL CROSS SECTION MULTIPLIED BY THE INSTALLED LENGTH.
- Always tie to 303(A) AGGREGATE BASE TYPE A, 303(B) AGGREGATE BASE TYPE B, 303(C) AGGREGATE BASE TYPE C, or 303(D) AGGREGATE BASE TYPE D, PLANT MIXED.
- (R-17) ESTIMATED AT _____ LBS. PER SQ. YD. (SOIL EST. AT 120 LBS. PER CU. FT.).
- Always tie to 307(A) FLY ASH and 307(D) LIME. Compute rate based on pavement design.
- (R-18) THE CONTRACTOR SHALL USE THE SLURRY METHOD OF STABILIZATION.
- Can be tied to 307(H) LIME STABILIZED SUBGRADE when in urban areas where blowing wind can cause problems with Lime.
- (R-19) PRICE BID TO INCLUDE THE CHEMICAL ADDITIVE(S) TO ACHIEVE THE RATE SPECIFIED FOR THE APPROPRIATE SOIL CLASSIFICATION AS SPECIFIED IN THE MOST CURRENT ODOT MATERIALS DIVISION OHD L-50. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLASSIFY THE SOIL AND DETERMINE THE APPROPRIATE ADDITIVE(S).
- Always tie to 307(K) STABILIZED SUBGRADE.
- (R-20) ESTIMATED AT _____ LBS. PER CU. FT.
- Always tie to 402(A-F) TRAFFIC BOUND SURFACE COURSE, TYPE A – TYPE F.
- (R-21) ESTIMATED AT 93.6 LBS. PER SQ. YD. PER 1" THICK.
- Always tie to 405 PERMEABLE FRICTION COURSE.
- (R-22) ESTIMATED AT 70 LBS. PER SQ. YD. PER 3/4" THICK.
- Always tie to 406 OPEN-GRADED FRICTION SURFACE COURSE.
- (R-23) PRIME COAT SHALL BE APPLIED AT AN ESTIMATED RATE OF 0.35 GAL. PER SQ. YD. WHEN APPLIED TO SUBGRADE, AND 0.25 GAL. PER SQ. YD. WHEN APPLIED TO AGGREGATE BASE. THE ACTUAL CUTBACK PRIME COAT REQUIRED FOR PLACEMENT OPERATIONS WILL BE DETERMINED BY THE CONTRACTOR, AND SHALL CONSIDER THE RESIDUE FROM DISTILLATION PERCENTAGE SHOWN IN SECTION 708.03 OF THE STANDARD SPECIFICATIONS.

- Always tie to 408 PRIME COAT.
- (R-24) PRICE BID TO INCLUDE COST OF ____ GALLONS OF TACK COAT, MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.
- Can be tied to 411(A-E) SUPERPAVE, TYPE S2 – TYPE S6, when Tack Coat is lumped into cost of Superpave. (Div. 8)
- (R-25) ESTIMATED AT 0.075 GALLONS PER SQUARE YARD OF ORIGINAL EMULSION OF TACK COAT (BEFORE DILUTION FOR APPLICATION) IN ACCORDANCE WITH SECTION 407 OF THE STANDARD SPECIFICATIONS.
- Can be tied to 407(B) TACK COAT, and 407(C) NT TACK MATERIAL, when applied in between layers of existing and/or new asphalt, cold milling or not.
- (R-26) ESTIMATED AT 112 LBS. PER SQ. YD. PER 1" THICK.
- Always tie to 411(A-E) SUPERPAVE, TYPE S2 TO TYPE S6.
- (R-27) ESTIMATED AT 109 LBS. PER SQ. YD. PER 1" THICK.
- Always tie to 411(F) STONE MATRIX ASPHALT.
- (R-28) PNEUMATIC TIRE ROLLERS ARE NOT REQUIRED FOR STONE MATRIX ASPHALT MIXES.
- Always tie to 411(F) STONE MATRIX ASPHALT.
- (R-29) PRICE BID TO INCLUDE COST OF FOG SEAL, MEETING THE REQUIREMENTS OF SECTION 407 OF THE STANDARD SPECIFICATIONS.
- Can be tied to 412 COLD MILLING PAVEMENT.
- (R-30) MILLINGS SHALL BECOME THE PROPERTY OF ODOT, TO BE HAULED AND STOCKPILED WITHIN TEN MILES OF THE PROJECT. MILLINGS SHALL BE FREE FROM SOIL OR FOREIGN MATERIAL AND SHALL CONTAIN NO PIECES GREATER THAN 4" DIAMETER. CARE SHOULD BE TAKEN WHEN STOCKPILING TO NOT INCORPORATE UNDERLYING MATERIAL INTO THE STOCKPILE.
- Can be tied to 412 COLD MILLING PAVEMENT.
- (R-31) QUANTITY INCLUDES AN ADDITIONAL ____%, FOR VARIATION IN YIELD DUE TO CROSS SLOPE CORRECTION AND IRREGULARITIES.
- Can be tied to 414 (G) P.C. CONCRETE FOR PAVEMENT, when used with bonded or unbonded P.C.C. overlay pay items. Rate to be determined at plan-in-hand, usually from 3% to 5% depending on condition of existing pavement.
- (R-32) INCLUDES ____ C.Y. TO BE USED FOR CONCRETE MEDIANS OR ISLANDS. TO BE FINISHED IN ACCORDANCE WITH SEC. 610.04 OF THE STANDARD SPECIFICATIONS.
- Can be tied to 509(B) CLASS A CONCRETE.
- (R-33) QUANTITY INCLUDES AN ESTIMATED ____ C.Y. TO BE USED AS DIRECTED BY THE ENGINEER.
- Can be tied to 509(D) CLASS C CONCRETE.
- (R-34) PRICE BID TO INCLUDE COST OF - ____4" MOUNTABLE CURB HOODS, - ____6" MOUNTABLE CURB HOODS, - ____6" BARRIER CURB HOODS, - ____8" BARRIER CURB HOODS.
- Always tie to 611(G) INLET (CI DES.) to clarify how many of each hood type to provide, for the whole project.
- (R-35) THE PRECAST CONCRETE OPTION MAY BE USED INSTEAD, PER DIRECTION OF THE ENGINEER.
- Always tied to 611(A) MANHOLE, 611(B) ADD'L DEPTH IN MANHOLE, 611(G) INLET (CI DES.), 611(G) INLET (SMD), AND 611(H) ADD'L DEPTH IN INLET (CI DES.) to give contractor the option of using either version, unless the Engineer specifies a certain option.
- (R-36) WEIGHTS SHOWN ARE THE WEIGHTS OF THE STEEL GRATE AND DO NOT INCLUDE

THE WEIGHT OF STEEL ANGLES, ANCHOR BOLTS OR WASHERS. PRICE BID PER POUND OF STEEL GRATE SHALL INCLUDE THE COST OF GRATES, STEEL ANGLES, ANCHOR BOLTS, AND WASHERS COMPLETE AND ACCEPTED IN PLACE.

- Always tie to 611(N) **WELDED STEEL GRATE**. Use this pay item for special design inlet grates (Non-standard inlet structures are usually paid for with Concrete & Reinforcement items).

(R-37) ANY DRAINAGE STRUCTURE DESCRIBED AS TEMPORARY, SHALL AFTER COMPLETION OF THE PROJECT, BE REMOVED BY AND BECOME THE PROPERTY OF THE CONTRACTOR.

- Can be tied to any of the 613(B) **CORR. GALV. STEEL PIPE, ROUND OR ARCH**, 613 (C) **MILL PRECOATED CORR. GALV. STEEL PIPE**, 613 (D) **CORR. ALUMINUM PIPE**, 613 (E) **CORR. POLYETHYLENE PIPE** and 613 (EE) **CORR. POLYPROPYLENE PIPE** items that are labeled as Temporary in the Structure description.

(R-38) PRICE BID TO INCLUDE COST OF ___ CU. YD. FOR PIPE UNDERDRAIN.

- Can be tied to 613(V) **TRENCH EXCAVATION** when pipe underdrain is used.

(R-39) INCLUDES REMOVAL OF ALL EXISTING ROADWAY DRAINAGE STRUCTURES, HEADWALLS (UNLESS OTHERWISE SPECIFIED), INLETS, FENCES, AND OTHER STRUCTURES WITHIN THE RIGHT OF WAY.

- Always tie to 619(A) **REMOVAL OF STRUCTURES AND OBSTRUCTIONS**.

(R-40) TO BECOME THE PROPERTY OF AND BE DISPOSED OF BY THE CONTRACTOR IN A MANNER APPROVED BY THE ENGINEER.

- Can be tied to 619(A) **REMOVAL OF STRUCTURES AND OBSTRUCTION**.
- Always tied to 619(B) **REMOVAL (OF SPECIFIED ITEMS)** pay items.

(R-41) MATERIALS REMOVED SHALL NOT BE MEASURED FOR PAYMENT UNDER SECTION 202.06 UNCLASSIFIED EXCAVATION.

- Always tie to various 619(B) **REMOVAL** pay items. As a rule of thumb, if item being removed, was likely shown in a typical section at time of original construction, then we need to clarify that Unclassified Excavation should be based on surface after features are removed.

(R-42) INCLUDES ___ L.F. OF ___' RADIUS BEND.

- Can be tied to 623(A) **BEAM GUARD RAIL W-BEAM SINGLE** or 623(B) **BEAM GUARD RAIL W-BEAM DOUBLE**, when rail is placed along a radius, such as along street return radius.

(R-43) INCLUDES 2% FOR GROUND MEASUREMENT.

- Always tie to 624(A) **FENCE, STYLE WWF**; 624(C) **FENCE, STYLE SWF** and 624(E) **FENCE, STYLE CLF**.

(R-44) ALL GATES AND GATE END POSTS FOR STRANDED WIRE FENCE (SWF) SHALL BE CONSTRUCTED AT THE SAME WIDTH AS THE EXISTING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

- Always tie to 624(C) **FENCE, STYLE SWF**.

(R-45) CONCRETE LONGITUDINAL BARRIER TO INCLUDE POST HOLES FITTED WITH GALVANIZED STEEL SLEEVE FOR GLARE DEFLECTOR FENCE OR THREADED FLANGE.

- Can be tied to 624(G) **FENCE, STYLE GDF**, 627(A) **CONCRETE LONGITUDINAL BARRIER, DESIGN I**, and 509(B) **CLASS A CONCRETE (LONG.BAR.DES. I-A)**, in urban areas, when alignment is in a curve. May want to get Traffic Division input on location and quantity of Glare Deflector fence.

GENERAL CONSTRUCTION NOTES

- (G-1) IN ACCORDANCE WITH THE OKLAHOMA UNDERGROUND FACILITIES DAMAGE PREVENTION ACT THE CONTRACTOR SHALL NOTIFY THE OKLAHOMA ONE-CALL SYSTEM, INC. 48 HOURS PRIOR TO BEGINNING EXCAVATION. OKLAHOMA ONE-CALL SYSTEM, INC. "CALL OKIE" 1-800-522-6543 OR 811.**
- (G-2) THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING ROAD TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.**
- (G-3) MAINTENANCE OF THROUGH TRAFFIC INCLUDES THE MAINTENANCE OF THE EXISTING ROAD IN CLOSE PROXIMITY TO THE NEW CONSTRUCTION AS SHOWN ON THE PLANS.**
- (G-4) THIS PROJECT SHALL BE CONSTRUCTED WITHOUT CLOSING THE EXISTING SECTION LINE ROADS TO LOCAL AND THROUGH TRAFFIC. SEE STANDARD SPECIFICATIONS FOR MAINTENANCE OF LOCAL AND THROUGH TRAFFIC.**
- (G-5) FOR PROJECTS THAT INCLUDE WIDENING AND/OR RESURFACING, THE CONTRACTOR SHALL SCHEDULE OPERATIONS TO MINIMIZE POTENTIAL DROP-OFF HAZARDS AND SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE OPERATIONS BEGIN. ANY PORTION OF THE CONSTRUCTION OPERATIONS, SUCH AS SUPERPAVE LAYING OPERATIONS, EXCAVATION FOR PAVEMENT WIDENING, OR EXTENSION OF ROADWAY STRUCTURES, SHALL BE LIMITED TO ONE SIDE AT A TIME, AND THE PROCEDURES OUTLINED IN THE PAVEMENT DROP-OFF TREATMENT STANDARD PDT-2 (LATEST REVISION) SHALL BE IMPLEMENTED. ONLY THAT AMOUNT OF OPEN TRENCH WILL BE ALLOWED THAT CAN BE SURFACED IN I(ONE) DAY'S TIME WITHOUT APPROVAL BY THE ENGINEER. LIGHTS, SIGNS AND BARRICADES SHALL BE MOVED AS WORK PROGRESSES.**
- (G-6) ALL TREES, BRUSH, AND OTHER DEBRIS THAT MIGHT INTERFERE WITH THE FLOW OF WATER SHALL BE CLEANED OUT TO THE RIGHT-OF-WAY LINE, AT EACH STRUCTURE AND BRIDGE, IN A MANNER APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.**
- (G-7) THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY RIGHT-OF-WAY FENCE AS REQUIRED. WHEN THE PORTION OF THE PROJECT THAT REQUIRED THIS FENCE IS COMPLETED, THE TEMPORARY FENCE SHALL BE REMOVED, AND PERMANENT RIGHT-OF-WAY FENCING SHALL BE RESTORED OR INSTALLED IN A MANNER APPROVED BY THE ENGINEER. ALL COST OF TEMPORARY FENCING SHALL BE INCLUDED IN OTHER ITEMS OF WORK.**
- (G-8) ALL FLOWLINES THAT ARE TO BE FILLED SHALL BE THOROUGHLY TAMPED BEFORE CONSTRUCTION OR EXTENSION OF DRAINAGE STRUCTURES. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.**
- (G-9) IN ORDER TO ALLEVIATE DUST CONDITIONS DURING GRADING OPERATIONS AND BEFORE PAVEMENT WORK IS COMPLETED, THE CONTRACTOR SHALL SPRINKLE GRADING AT INTERVALS APPROVED BY THE ENGINEER. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.**
- (G-10) THIS PROJECT IS LOCATED NEAR KNOWN SOURCES OF GYPSUM (SULFATE) DEPOSITS. SPECIAL ATTENTION SHOULD BE USED TO AVOID BORROW MATERIAL THAT COULD ADVERSELY INTERACT WITH THE CALCIUM BASED ADDITIVES (FLY ASH, PORTLAND CEMENT, CEMENT KILN DUST, AND LIME) USED IN THE STABILIZED SUBGRADE. THE CONTRACTOR MAY BE REQUIRED TO PROVIDE SULFATE TESTING OF BORROW PIT SITES AS DIRECTED BY THE ENGINEER.**

- Use on all Division 5 & 6 projects.

(G-11) THE CONTRACTOR SHALL NOT WASTE ANY EXCESS EXCAVATION UNTIL ALL PLANNED EMBANKMENTS AND BACKFILLS ARE COMPLETED. EXCESS UNCLASSIFIED EXCAVATION MATERIAL DETERMINED BY THE ENGINEER TO BE SUITABLE FOR BACKFILL SHALL BE USED TO REDUCE ANY UNCLASSIFIED BORROW NEEDED. COST OF SECOND HANDLING SHALL BE INCLUDED IN OTHER ITEMS OF WORK. ANY REMAINING EXCESS EXCAVATION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.

(G-12) PRIME COAT SHALL BE APPLIED TO THE SUBGRADE IMMEDIATELY AFTER FINAL COMPACTION AND SHAPING TO RETAIN MOISTURE FOR PROPER CHEMICAL REACTION OF THE SOIL ADDITIVE.

- Use this note when soil additives are used, except in the Oklahoma City and Tulsa metropolitan areas. See Oklahoma Administrative Code 252:100-39-40.

(G-13) THE CONTRACTOR SHALL KEEP THE OPEN TRENCH DRAINED. COST TO BE INCLUDED IN OTHER ITEMS OF WORK.

(G-14) WHEN BOTH A WARM AND COOL SEASON SEED MIX IS SPECIFIED, EITHER MIX (IN THE PROPER SEASON) MAY BE USED, BUT BOTH SHALL NOT BE PLANTED ON THE SAME AREA.

KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED

- Sometimes used in Division 8

(G-15) TEMPORARY SEEDING MIX SHALL BE AS FOLLOWS:

KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED

(G-16) PERMANENT SEEDING MIX SHALL BE AS FOLLOWS

KINDS OF SEED TO BE FURNISHED	QUANTITY PER ACRE
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED
...COMMON NAME (SCIENTIFIC NAME)	_____ LBS. OF SEED

(G-17) VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "ADHESIVE SPRAY METHOD", AS SPECIFIED IN 233.04B(1) OF THE STANDARD SPECIFICATIONS.

(G-18) VEGETATIVE MULCHING: THE VEGETATIVE MULCH SHALL BE ANCHORED IN ACCORDANCE WITH THE "MULCHING TILLER METHOD", AS SPECIFIED IN 233.04B(2) OF THE STANDARD SPECIFICATIONS.

(G-19) THE PLANTING OF MULCH SOD SHALL BE RESTRICTED TO THE PERIOD FROM _____ TO _____.

(G-20) THE PLANTING OF BROADCAST SPRIGS SHALL BE RESTRICTED TO THE PERIOD FROM _____ TO _____.

- (G-21) THE PLANTING OF ROW SPRIGS SHALL BE RESTRICTED TO THE PERIOD FROM _____ TO _____.
- (G-22) THE PLANTING OF _____ SEEDS SHALL BE RESTRICTED TO THE PERIOD FROM _____ TO _____.
- (G-23) AREAS ON WHICH SALVAGED TOPSOIL IS TO BE REPLACED SHALL HAVE 18-46-0 FERTILIZER APPLIED, AT THE RATE OF 150 POUNDS PER ACRE, JUST PRIOR TO THE REPLACEMENT OF SALVAGED TOPSOIL.
- (G-24) TYPE B SALVAGED TOPSOIL WILL BE CONSIDERED COMPLETE WHEN THE TOPSOIL HAS BEEN REMOVED AND STOCKPILED FROM THE AREAS OF ROADWAY EXCAVATION AND EMBANKMENT. INCORPORATION OF SPRIGS INTO THE SOIL AND REPLACEMENT OF THIS MIXTURE ONTO DESIGNATED AREAS WILL BE HANDLED UNDER THE PAY ITEM FOR BROADCAST SPRIGGING, METHOD B.
- (G-25) AT THE BEGINNING OF TURFING OPERATIONS, ANY AREAS INCLUDED IN PLANNED QUANTITIES THAT HAVE GROWN A SATISFACTORY VOLUNTEER TURF OF PERENNIAL GRASS, AS DETERMINED BY THE ENGINEER, SHALL BE FERTILIZED AND WATERED AS CALLED FOR ON THE PLANS, BUT SHALL NOT BE SEEDED, SODDED, OR SPRIGGED.
- (G-26) PIPE UNDERDRAIN QUANTITIES ESTIMATED ONLY. LOCATION, IF AND WHERE REQUIRED, TO BE DETERMINED BY THE ENGINEER.
- (G-27) THE CONTRACTOR SHALL REMOVE AND RESET MAILBOXES AS NECESSARY. MAILBOXES ARE TO BE MAINTAINED IN AN UPRIGHT POSITION AND ACCESSIBLE TO MAIL CARRIER'S CAR DURING CONSTRUCTION. ANY DAMAGE TO BOXES OR SUPPORTS SHALL BE REPAIRED BY THE CONTRACTOR. ALL COST TO BE INCLUDED IN OTHER ITEMS OF WORK.
- (G-28) AGGREGATE BASE ON DETOUR ROADS, REMOVED AND RELAID FOR SHOULDERS, DRIVEWAYS AND/OR RETURNS ON MAIN ROADWAY, SHALL MEET THE SPECIFICATIONS FOR "AGGREGATE BASE" WHEN RELAID. NO PLANT MIXING WILL BE REQUIRED FOR THIS MATERIAL.
- (G-29) BITUMINOUS SURFACING ON AGGREGATE BASE WHICH IS TO BE RELAID SHALL BE SCARIFIED AND INCORPORATED INTO THE AGGREGATE BASE MATERIAL. IN ALL OTHER RESPECTS, THE MATERIAL TO BE RELAID SHALL MEET THE SPECIFICATIONS FOR "AGGREGATE BASE."
- (G-30) SURFACING OF RETURNS, UNLESS OTHERWISE SHOWN ON THE PLANS, SHALL BE OF THE SAME MATERIAL (BASE AND SURFACE) AS THAT OF THE ABUTTING SHOULDER OF THE MAINLINE. BASE AND SURFACE THICKNESS SHALL BE THE THICKNESS SHOWN ON PLANS.
- (G-31) T.B.S.C. SURFACES SHALL BE SPRINKLED WITH WATER AND ROLLED WITH A PNEUMATIC ROLLER IN A MANNER APPROVED BY THE ENGINEER.
- (G-32) THE ENGINEER SHALL CHECK GRADES AT RAMP TERMINALS, AND MAKE ANY ADJUSTMENTS OF THE GRADES AND SUPERELEVATIONS, WHICH ARE REQUIRED TO OBTAIN SMOOTH PROFILES FOR BOTH EDGES OF THE RAMP PAVEMENT. CROSS SLOPE BREAKOVER SHALL NOT EXCEED 5% (FIVE PERCENT).
- This note to be used any time there are ramps within the project extents.
- (G-33) THE USE OF A MATERIAL TRANSFER VEHICLE (MTV) WILL NOT BE REQUIRED FOR THIS PROJECT.
- This note to be used to override the Specifications at the discretion of the Designer, and as discussed at the plan-in-hand.

- (G-34) **PROVIDE A MATERIAL TRANSFER VEHICLE (MTV) FOR THIS PROJECT, TO PLACE THE TOP TWO LIFTS OF HMA FOR PAVEMENTS DESIGNED FOR MINIMUM OF 10 MILLION ESALs UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.**
- This note to be used to reinforce or override the Specifications at the discretion of the Designer, and as discussed at the plan-in-hand.
- (G-35) **ONLY THE SILICONE SEALANT OPTIONS, FROM STANDARD LECS-5, WILL BE ALLOWED ON THIS PROJECT.**
- Use this for new construction of jointed pavements in Division 4, 5 and 7. Also, use this when the use of other joint sealers was not discussed at plan-in-hand.
- (G-36) **THE HOT POUR OPTIONS, FROM STANDARD LECS-5, WILL BE ALLOWED ON THIS PROJECT.**
- Use this when requested by Field Division at plan-in-hand. For pavement rehabilitation projects, the Field Division may prefer this over the silicone sealant.
- (G-37) **ONLY THE NON-SEALED OPTION, FROM STANDARD LECS-5, WILL BE ALLOWED ON THIS PROJECT.**
- Use this when requested by Field division at plan-in-hand.
- (G-38) **PRIOR TO FINAL ACCEPTANCE, ALL EXPOSED CURB SURFACES SHALL BE CLEANED OF ALL DISCOLORATION SUCH AS ASPHALT STAIN, TIRE MARKS, OR OTHER DISFIGUREMENT.**
- (G-39) **EXCESS ASPHALT AT JOINTS AND CRACKS IN EXISTING PAVEMENT SHALL BE REMOVED FLUSH TO TOP OF PAVING IN A MANNER APPROVED BY THE ENGINEER.**
- (G-40) **ALL FEATURES OF THIS PROJECT INCLUDING, BUT NOT LIMITED TO, PATHS, SIDEWALKS, CURB RAMPS, AND CROSSWALK MARKINGS WILL COMPLY WITH PUBLIC RIGHTS-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG), PUBLISHED JULY 26, 2011. WHERE SPECIAL LIMITATIONS OF EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH PROWAG, THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURES. THE CONTRACTOR WILL NOT PROCEED WITH ANY OF THE WORK, WHICH IS NOT IN FULL COMPLIANCE WITH PROWAG, WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF PROWAG FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL WILL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.**
- (G-41) **THE CROSS SLOPE FOR PATHS, SIDEWALKS, AND RAMPS WITHIN THE LIMITS OF AN ACCESSIBLE ROUTE WILL NOT EXCEED 1:50 OR 2%.**
- (G-42) **RAMP LONGITUDINAL SLOPES WILL NOT EXCEED 1:12 OR 8.33%.**
- (G-43) **THE CONTINUOUS PATH'S CROSS SLOPE WILL NOT EXCEED 2% THROUGH DRIVEWAYS. SEE DRIVEWAY DETAIL ON ODOT ROADWAY STANDARD WCR-4 AND SPECIAL DRIVEWAY DETAILS.**
- (G-44) **SIDEWALK AND RAMP LOCATIONS HAVE BEEN DEPICTED WITHOUT KNOWLEDGE OF ULTIMATE UTILITY STRUCTURE LOCATIONS. LOCATIONS WILL BE ADJUSTED TO AVOID ABOVE GRADE UTILITY STRUCTURES SUCH AS UTILITY POLES, RISERS, GUY ANCHORS, AND OTHER ABOVE GRADE APPURTENANCES. NO SUCH STRUCTURES WILL BE ALLOWED WITH THE 'PEDESTRIAN ACCESS ROUTE' AS DEFINED BY PROWAG.**

PAY ITEMS AND POSSIBLE NOTES

PAYITEM:	NOTES:
Note (R-1) can be used with many pay items, some of which are not listed in this table.	
202(A) UNCLASSIFIED EXCAVATION	(R-2)Optional
202(D) UNCLASSIFIED BORROW	(R-2)Optional, (R-3)Optional
202(F) EMBANKMENTS	(R-3)Optional,
205(A) TYPE A SALVAGED TOPSOIL	(R-4)Always, (R-6)Optional
205(B) TYPE B SALVAGED TOPSOIL	(R-4)Always, (R-6)Optional
209 MACHINE GRADING	(R-5)Optional
221(A) TEMPORARY SLOPE DRAINS	(R-8)Always
221(B)TEMPORARY SILT FENCE	(R-8)Always
221(C)TEMPORARY SEDIMENT FILTER	(R-8)Always
221(C) REINFORCED SILT FENCE	(R-8)Always
221(D) TEMPORARY SEDIMENT BASIN	(R-8)Always
221(E) TEMPORARY SILT DIKE	(R-8)Always
221(F) TEMPORARY ROCK FILTER DAM TYPES 1-4	(R-8)Always
221(G) TEMPORARY FIBER LOG	(R-8)Always
230(A) SOLID SLAB SODDING	(R-6)Optional, (R-7)Optional
230(B) MULCH SODDING	(R-6)Optional, (R-7)Optional
230(C) ROW SPRIGGING	(R-6)Optional, (R-7)Optional
230(D) BROADCAST SPRIGGING (METHOD A)	(R-6)Optional, (R-7)Optional
230(E) BROADCAST SPRIGGING (METHOD B)	(R-6)Optional, (R-7)Optional
230(F) WATERING	(R-9)Always, (R-10)Optional
232(A) SEEDING METHOD A	(R-6)Optional, (R-7)Optional
232(B) SEEDING METHOD B	(R-6)Optional, (R-7)Optional
232(C) SEEDING METHOD C	(R-6)Optional, (R-7)Optional
233(A) VEGETATIVE MULCHING	(R-11)Always
233(B) EXCELSIOR MULCHING	(R-11)Always
233(C) WOOD CELLULOSE FIBER	(R-11)Always
234(A) FERTILIZING (10-20-10)	(R-12)Optional or (R-13)Optional
234(A) FERTILIZING (18-46-0)	(R-14)Always
241 MOWING	(R-15)Optional
303(A-C) AGGREGATE BASE, TYPE A – TYPE C	(R-16)Always
307(A) FLY ASH	(R-17)Always
307(D) LIME	(R-17)Always
307(H) LIME STABILIZED SUBGRADE	(R-18)Optional
307(K) STABILIZED SUBGRADE	(R-19)Always
402(A-F) TRAFFIC BOUND SURFACE COURSE, TYPE A – TYPE F	(R-20)Always
405 PERMEABLE FRICTION COURSE	(R-21)Always
406 OPEN GRADED FRICTION SURFACE COURSE	(R-22)Always
407(B) TACK COAT	(R-25)Optional
407(C) NT TACK MATERIAL	(R-25)Optional
408 PRIME COAT	(R-23)Always
411(A-E) SUPERPAVE, TYPE S2 - TYPE S6	(R-24)Optional, (R-26)Always
411(F) STONE MATRIX ASPHALT	(R-27)Always, (R-28)Always
412 COLD MILLING PAVEMENT	(R-29)Optional, (R-30)Optional
414(G) P.C. CONCRETE FOR PAVEMENT	(R-31)Optional
509(B) CLASS A CONCRETE	(R-32)Optional
509(B) CLASS A CONCRETE (LONG.BAR.DES.1-A)	(R-45)Optional
509(D) CLASS C CONCRETE	(R-33)Optional
611(A) MANHOLE	(R-35)Always
611(B) ADD'L DEPTH IN MANHOLE	(R-35)Always
611(G) INLET (CI DES.)	(R-34)Always, (R-35)Always
611(G) INLET (SMD)	(R-35)Always
611(H) ADD'L DEPTH IN INLET (CI DES.)	(R-35)Always

<u>PAYITEM:</u>	<u>NOTES:</u>
611(N) WELDED STEEL GRATE	(R-36)Always
613(B) CORR. GALV. STEEL PIPE, ROUND OR ARCH	(R-37)Optional
613(C) MILL PRECOATED CORR. GALV. STEEL PIPE	(R-37)Optional
613(D) CORR. ALUMINUM PIPE	(R-37)Optional
613(E) CORR. POLYETHYLENE PIPE	(R-37)Optional
613(EE) CORR. POLYPROPYLENE PIPE	(R-37)Optional
613(V) TRENCH EXCAVATION	(R-38)Optional
619(A) REMOVAL OF STRUCTURES AND OBSTRUCTIONS	(R-39)Always, (R-40)Optional
619(B) REMOVAL OF SPECIFIED ITEMS	(R-40)Always
619(B) REMOVAL OF CURB AND GUTTER	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CONCRETE PAVEMENT	(R-40)Always, (R-41)Always
619(B) REMOVAL OF ASPHALT PAVEMENT	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CONC.PAV.W/ASPH.OVERLAY	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CONCRETE DRIVEWAY	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CURB	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CONCRETE SLOPE PROTECTION	(R-40)Always, (R-41)Always
619(B) REMOVAL OF CONCRETE MEDIAN BARRIER	(R-40)Always, (R-41)Always
619(B) REMOVAL OF 8" CONCRETE DIVIDING STRIP	(R-40)Always, (R-41)Always
619(B) REMOVAL OF EXISTING SLAB	(R-40)Always, (R-41)Always
623(A) BEAM GUARD RAIL-W-BEAM-SINGLE	(R-42)Optional
623(B) BEAM GUARD RAIL-W-BEAM-DOUBLE	(R-42)Optional
624(A) FENCE, STYLE WWF	(R-43)Always
624(C) FENCE, STYLE SWF	(R-43)Always, (R-44)Always
624(E) FENCE, STYLE CLF	(R-43)Always
624(G) FENCE, STYLE GDF	(R-45)Optional
627(A) CONCRETE LONGITUDINAL BARRIER, DESIGN 1	(R-45)Optional