

GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	12
2	OHIO	I-1102 (6) I-1103(18)	458

CUYAHOGA & LAKE COUNTIES
CUY-1-15.91
LAK-1- 0.00

PAVED GUTTER:

18" WIDE SODDING SHALL BE USED ON EACH SIDE OF TYPE 1 PAVED GUTTER FOR ITS ENTIRE LENGTH. SODDING SHALL BE PAID FOR UNDER L-10 SODDING. THE TOTAL QUANTITY OF L-10 SODDING USED FOR THIS PURPOSE IS 1012 SQUARE YARDS.

ROADWAY DRAINAGE, ITEM I-3:

FARM TILE WHICH ARE INTERCEPTED IN THE BACK SLOPES OF CUT SECTIONS SHALL BE DISCHARGED INTO THE ROADWAY DITCH ONE FOOT ABOVE THE FLOW LINE OF THE PROPOSED DITCH.

AN ESTIMATED AMOUNT OF ROADWAY DRAINAGE, ITEM I-3, AND PIPE OUTLETS FOR ROADWAY DRAINAGE, ITEM I-3 HAS BEEN PROVIDED TO OUTLET ANY ADDITIONAL FIELD DRAINS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. THE OUTLET LOCATIONS, GRADES AND DEPTHS REQUIRED SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. THE QUANTITY AND LOCATION OF ANY ADDITIONAL ROADWAY DRAINAGE, ITEM I-3 AND PIPE OUTLETS FOR ROADWAY DRAINAGE, ITEM I-3 SHALL BE RECORDED AND SUBMITTED WITH THE FINAL ESTIMATE AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENT. THE SIZE AND ESTIMATED QUANTITIES ARE AS FOLLOWS:

I-3	6" ROADWAY DRAINAGE	I-1102(6) 800 LIN. FT.	I-1103(18) 800 LIN. FT.
I-3	8" ROADWAY DRAINAGE	800 LIN. FT.	800 LIN. FT.
I-3	8" PIPE OUTLETS FOR ROADWAY DRAINAGE, SEC. M-6.4(c)	100 LIN. FT.	100 LIN. FT.
I-3	10" PIPE OUTLETS FOR ROADWAY DRAINAGE, SEC. M-6.4(c)	100 LIN. FT.	100 LIN. FT.

EROSION CONTROL AT HEADWALLS:

AN 18" WIDE STRIP OF SOD SHALL BE PLACED ALONG THE BACK AND BOTH ENDS OF EACH HEADWALL TYPE A, B AND C TO PREVENT EROSION. THE QUANTITY OF SODDING REQUIRED TO PREVENT EROSION AT THE HEADWALLS IS INCLUDED IN EACH OF THE CULVERT ESTIMATED QUANTITIES OR LOCAL RECAPS.

SUBGRADE COMPACTION:

THE AREA OF COMPACTED SUBGRADE TO BE PAID FOR INCLUDES THE MAIN PAVEMENTS, PAVED SHOULDERS AND HARD SURFACED CROSS ROAD PAVEMENTS.

MANHOLES IN SLOPED AREAS:

MANHOLE CASTINGS SHALL BE SET TO CONFORM WITH THE PLANE OF THE FINISHED SLOPES WHERE MANHOLES ARE REQUIRED IN SLOPED AREAS. THE UNIT PRICE BID FOR EACH MANHOLE SHALL INCLUDE SETTING THE MANHOLE CASTING TO CONFORM TO THE ABOVE. HOWEVER, IN NO EVENT SHALL SLOPE OF CASTING EXCEED 4 TO 1.
SEEDING AND PROTECTING:

QUANTITIES PROVIDED FOR SEEDING THE MAIN FACILITY ARE CALCULATED FOR ALL SOIL AREAS BETWEEN RIGHT-OF-WAY FENCE LINES. ON CROSS ROADS OR OTHER UNFENCED AREAS, SEEDING HAS BEEN CALCULATED FOR ALL SOIL AREAS LOCATED BETWEEN THE WORK LIMITS, INCLUDING RUNAROUNDS. SEED SHALL BE SOWN AT THE RATE OF 3 POUNDS PER 1,000 SQUARE FEET EXCEPT AS OTHERWISE NOTED IN THE PLANS. SEEDING FORMULA FOR ALL SEEDED AREAS SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

70% KENTUCKY 31 FESCUE
20% KENTUCKY BLUEGRASS
5% REDTOP
5% ALSIKE CLOVER

CONSTRUCTION LAYOUT STAKES:

SEE NOTE IN PROPOSAL DESCRIBING THE WORK INCLUDED IN THIS LUMP SUM ITEM.

PLUGGING PIPE ENDS:

THE UPSTREAM ENDS OF PIPE LINES OR TILE LINES INTERCEPTED BY EARTHWORK OPERATIONS SHALL BE EFFECTIVELY BLOCKED AND COVERED. BROKEN PIECES AND PORTIONS OF PIPE OR TILE SHALL BE REMOVED UNTIL A WHOLE LENGTH IS ENCOUNTERED, WHICH SHALL BE BLOCKED WITH CONCRETE, FLAT STONE OR BRICK LAID IN MORTAR, OR PRE-CAST CLAY OR CONCRETE STOPPER. PAYMENT FOR THE ABOVE WORK SHALL BE INCLUDED IN THE PRICE BID FOR ROADWAY EXCAVATION.

GUARD RAIL REMOVAL:

THE REMOVAL OF ANY GUARD RAIL OR GUARD RAIL POSTS LYING WITHIN THE LIMITS OF ROADWAY EXCAVATION OR EMBANKMENT (AND NOT SPECIFICALLY PAID FOR UNDER A SEPARATE ITEM) IS INCLUDED IN THE CONTRACT UNIT PRICE BID FOR ROADWAY EXCAVATION. ALL RESULTING MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM AT NO EXTRA COST TO THE STATE.

HEAVY EQUIPMENT:

THE CONTRACTOR SHALL EXERCISE CARE IN THE USE OF HEAVY EQUIPMENT OVER FINISHED WORK AND WILL BE REQUIRED TO REMOVE AND REPLACE ANY COMPLETED WORK DESTROYED THEREBY. CULVERTS SHALL BE BACKFILLED TO A HEIGHT OF FOUR FEET BEFORE LOADED. EARTH-MOVING EQUIPMENT IS PERMITTED TO CROSS THE TRENCH. HEAVY EQUIPMENT SHALL NOT BE OPERATED OVER ANY COMPLETED LAYER OF EMBANKMENT, COMPACTED SUB-GRADE OR SUB-BASE IF SUCH OPERATION TENDS TO DESTROY THE SOIL STRUCTURE OR PIPE UNDERDRAINS; HOWEVER, IF SUCH OPERATION CANNOT BE AVOIDED, THE CONTRACTOR WILL BE REQUIRED TO REDUCE THE SIZE OF LOADS TO AN EXTENT THAT DAMAGE DOES NOT OCCUR. ANY ADDITIONAL FILL AND SUBSEQUENT EXCAVATION REQUIRED TO PROVIDE THE MINIMUM COVER, AS REQUIRED ABOVE, SHALL BE MADE AT NO ADDITIONAL COST TO THE STATE.

I-22 SUBBASE GRADING A AND B AS PER PLAN:

MATERIAL FOR THIS ITEM SHALL MEET THE REQUIREMENTS FOR ITEM I-22 GRADING A OR B EXCEPT THAT FOR BOTH GRADINGS THE PERCENT PASSING THE NO. 200 SIEVE SHALL NOT EXCEED 10.

L-9 AGRICULTURAL LIMING MATERIAL:

LIME SHALL BE APPLIED TO EXPOSED SHALE SLOPES AT THE RATE OF 10 TONS PER ACRE.

EROSION CONTROL AT BRIDGE ENDS:

SODDED CHANNELS SHALL BE PROVIDED AT ENDS OF BRIDGES WHERE REQUIRED BY THE PLANS. COST OF ALL WORK NECESSARY TO COMPLETE THE ITEM SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR "ITEM L-10, SODDING FOR SPECIAL BERM AND SLOPE PROTECTION".

INTERSTATE HIGHWAY SIGNS:

TWO SIGNS ARE SET UP IN THE GENERAL SUMMARY FOR EACH EXISTING STATE HIGHWAY WHICH CROSSES THIS PROPOSED INTERSTATE PROJECT WHEN TRAFFIC IS MAINTAINED ON THE HIGHWAY. THE PROJECT ENGINEER SHALL SELECT THE LOCATION FOR ERECTING THE SIGNS, WHICH LOCATION SHALL BE JUST OUTSIDE THE CONSTRUCTION LIMITS WHERE THE SIGN SHALL BE MOST CONSPICUOUS.

EXISTING WATER WELLS:

DUG WELLS ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE FILLED WITH ROCK OR GRANULAR MATERIAL. DRILLED WELL CASING SHALL BE REMOVED TO AN ELEVATION APPROXIMATELY THREE FEET BELOW FINISHED GRADE AND COVERED WITH A PRE-CAST CONCRETE SLAB OR A LARGE ROCK. PRIOR TO CONSTRUCTION OF EMBANKMENT, CONTRACTOR SHALL REMOVE ANY MASONRY SURROUNDING A WELL WITHIN THREE FEET OF FINISHED GRADE. PUMPS AND OTHER APPURTENANCES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. THE COST OF FILLING OR CAPPING OF WELLS SHALL BE INCLUDED IN THE UNIT PRICE BID PER CUBIC YARD OF ROADWAY EXCAVATION, ITEM E-1 FOR PAYMENT.

SEPTIC TANKS:

SEPTIC TANKS ENCOUNTERED DURING CONSTRUCTION SHALL BE REMOVED OR CLEANED OUT, AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID FOR E-1 ROADWAY EXCAVATION.

PLUGGING GAS WELLS:

SEE PROPOSAL

STORM SEWER, ITEM I-2:

AN ESTIMATED AMOUNT OF STORM SEWER, ITEM I-2 HAS BEEN PROVIDED TO BE USED AS DIRECTED BY THE ENGINEER. THE SIZE AND ESTIMATED QUANTITIES ARE AS FOLLOWS:

I-2 8" CLASS "A" STORM SEWER, UNDER PAV'T. OR APPR., SEC. M-6.5(b) OR SEC. M-6.8(b)	600 LIN. FT. on I-1102(6) & 600 LIN. FT. on I-1103(18)
I-2 10" CLASS "A" STORM SEWER, UNDER PAV'T. OR APPR., SEC. M-6.5(b) OR SEC. M-6.8(b)	600 LIN. FT. on I-1102(6) & 600 LIN. FT. on I-1103(18)

SPRINGS:

AN ESTIMATED AMOUNT OF PIPE UNDERDRAINS, ITEM I-4, HAS BEEN PROVIDED TO OUTLET ANY SPRINGS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. A TYPICAL SPRING DRAINAGE DETAIL IS SHOWN ON SHEET NO. 344 FOR THE ENGINEER'S INFORMATION. THE LOCATIONS, GRADES, AND DEPTH REQUIRED SHALL BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION. THE QUANTITY AND LOCATION OF ANY ADDITIONAL PIPE UNDERDRAINS, ITEM I-4 SHALL BE RECORDED AND SUBMITTED WITH THE FINAL ESTIMATE AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENT. THE SIZE AND ESTIMATED QUANTITIES ARE AS FOLLOWS:

I-4 6" PIPE UNDERDRAINS, SEC. M-6.4(h)	I-1102(6) 1000 LIN. FT.	I-1103(18) 1000 LIN. FT.
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DRAINAGE FOR STRUCTURES, NO. 2 AGGREGATE:

AN ESTIMATED AMOUNT OF DRAINAGE FOR STRUCTURES, NO. 2 AGGREGATE, ITEM S-29 HAS BEEN PROVIDED FOR EROSION CONTROL PADS AT OUTLETS OF FIELD DRAINS AND SPRING DRAINS WHICH MAY BE ENCOUNTERED DURING CONSTRUCTION. THE QUANTITY AND LOCATION OF ANY ADDITIONAL DRAINAGE FOR STRUCTURES, NO. 2 AGGREGATE, ITEM S-29 SHALL BE RECORDED AND SUBMITTED WITH THE FINAL ESTIMATE AND PAYMENT SHALL BE MADE ON FINAL MEASUREMENT. THE ESTIMATED QUANTITY IS AS FOLLOWS:

S-29 DRAINAGE OF STRUCTURES, NO. 2 AGGREGATE	I-1102(6) 4.3 CU. YDS.	I-1103(18) 4.3 CU. YDS.
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ESTIMATED QUANTITIES:

ESTIMATED AMOUNTS OF CERTAIN ITEMS SUCH AS PIPE, MONUMENT ASSEMBLIES, AGGREGATE AND CHLORIDE, HAVE BEEN PROVIDED AND ARE TO BE USED ONLY AT THE DIRECTION OF THE ENGINEER. THE AMOUNT AND LOCATION OF SUCH MATERIAL SHALL BE RECORDED AS USED AND SHALL BE MADE A PART OF THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

LONGITUDINAL DRAINAGE:

UNDERDRAINS, ITEM I-4 SHALL PARALLEL THE PROFILE GRADE UNLESS OTHERWISE SHOWN ON THE PLANS. IT IS INTENDED THAT DEEP LONGITUDINAL UNDERDRAINS BE PROVIDED UNDER EACH OUTSIDE SHOULDER FOR ITS ENTIRE LENGTH THROUGH EACH SOIL CUT. AT EACH END OF EACH SOIL CUT, A TRANSVERSE DRAIN IS LOCATED AT THE POINT WHERE SUBGRADE CHANGES FROM CUT TO FILL, AND SHALL DISCHARGE INTO THE DEEP UNDERDRAIN. IT IS ALSO INTENDED THAT SHALLOW LONGITUDINAL UNDERDRAINS SEC. M-6.4(h) BE PROVIDED UNDER EACH OUTSIDE SHOULDER FOR ITS ENTIRE LENGTH THROUGH EACH ROCK CUT. THE ENGINEER SHALL MAKE WHATEVER ADJUSTMENTS IN THE LENGTHS OF UNDERDRAINS OR LOCATIONS OF TRANSVERSE UNDERDRAINS THAT ARE NECESSARY TO ACCOMPLISH THE ABOVE.

STONE UNDERDRAIN NO. 2:

STONE UNDERDRAINS HAVE BEEN ESTIMATED FOR CROSS ROAD DRAINAGE AT 50 FEET INTERVALS ON EACH SIDE WHERE I-4 DRAINAGE IS NOT PROVIDED. THEY SHALL BE PLACED NOT OVER 50 FEET APART AND STAGGERED. ON SUPERELEVATED SECTIONS THE UNDERDRAIN WILL BE PLACED ON 50 FOOT INTERVALS ON LOW SIDE ONLY.

I-22 UNDER APPROACH SLABS:

THE AREA BETWEEN THE BOTTOM SURFACE OF THE APPROACH SLAB AND THE SUBGRADE SHALL BE BACK-FILLED WITH ITEM I-22 SUBBASE.

ROCK SUBGRADE:

THE CONTRACTOR SHALL BE PAID FOR THE THICKNESS OF I-22 MATERIAL SHOWN ON THE TYPICAL SECTIONS IN ROCK EXCAVATION AREAS. ANY POCKETS IN THE ROCK BELOW THE PLAN SUBGRADE ELEVATION SHALL DRAIN EITHER LONGITUDINALLY OR Laterally AND ALL IRREGULARITIES IN THE ROCK BELOW THIS ELEVATION SHALL BE FILLED WITH I-22 MATERIAL AT NO ADDITIONAL COST TO THE STATE.

CONTRACTION AND EXPANSION JOINTS:

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN EXPANSION AND CONTRACTION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. PROVISION OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL IN ALL CASES BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING T.J.

ROAD MIX QUANTITIES:

THE QUANTITY OF BITUMINOUS MATERIAL ESTIMATED FOR THE BITUMINOUS ROAD MIX SURFACE COURSE HAS BEEN CALCULATED FOR USE WITH SLAG AGGREGATE. IF THE CONTRACTOR ELECTS TO USE STONE OR GRAVEL AGGREGATE, BITUMINOUS MATERIAL FOR THE ROAD MIX SHALL BE APPLIED AT THE RATE OF 0.9 GALLON PER SQUARE YARD WHICH WILL REQUIRE A TOTAL QUANTITY OF APPROXIMATELY 1,995 GALLONS. PAYMENT WILL BE MADE ON FINAL MEASUREMENT.

ROCK OR SHALE LIMITS:

THE STATION LIMITS SHOWN ARE TO BE CONSIDERED AS APPROXIMATE.

MONUMENT ASSEMBLIES:

6 MONUMENT ASSEMBLIES HAVE BEEN PROVIDED IN THE SUMMARY OF QUANTITIES AND ARE TO BE USED AS REQUIRED BY THE ENGINEER TO PRESERVE EXISTING MONUMENTS.

I-127 DELINEATORS:

DELINEATORS HAVE BEEN ESTIMATED AT 200 FT. INTERVALS AS PER REVISED SUPPLEMENTAL SPECIFICATION I-127, EXCEPTING ON THE SHARPER CURVES IN THE EUCLID SPUR DIRECTIONAL INTERCHANGE. THEY SHALL BE PLACED AT INTERVALS AS DIRECTED BY THE ENGINEER.

NON-RIGID PAVEMENT REMOVAL:

REMOVAL AND DISPOSAL OF EXISTING NON-RIGID PAVEMENT, UNLESS OTHERWISE INDICATED ON THESE PLANS, SHALL BE MEASURED AND PAID FOR AS ITEM E-1, ROADWAY EXCAVATION.

ITEM I-127 POSTMOUNTED DELINEATORS, AS PER PLAN IN LIEU OF THE WEIGHT REQUIREMENTS OF SEC. I-127.02, THE STEEL DRIVE POST FOR THIS ITEM SHALL WEIGH 2.00 POUNDS PER LINEAR FOOT.

ITEM I-12 STD. TYPE 2 COMB. CURB & GUTTER, AS PER PLAN

THE CURB PORTION OF THIS ITEM SHALL CONFORM TO THE DIMENSIONS SHOWN FOR THE 6"x7" INTEGRAL CONC. CURB ON SHEET 7.

MICHAEL BAKER JR, CONSULTING ENGINEERS
ROCHESTER, PENNSYLVANIA

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
STATE HIGHWAY NO. 1
C-41 & C-42
GENERAL NOTES

Designed	Drawn	Traced	Checked	Reviewed Date	Revised
V.T.	B.N.	B.P.			