

# GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO	ACI-1103(27)	

7  
413

LAKE COUNTY  
LAK-1-16.55

## ITEMS L-10 SODDING, I-10 RIP RAP & I-14 PAVED GUTTER

THESE ITEMS ARE PROVIDED ON THE PLANS FOR EROSION CONTROL. THE ENGINEER SHALL CHECK AND MAKE ADJUSTMENTS IN LOCATION AND QUANTITIES FOR THESE ITEMS WHERE INDICATED BY FIELD CONDITIONS DURING CONSTRUCTION.

## L-9 COMMERCIAL FERTILIZER

ALL AREAS TO BE SEEDED UNDER ITEM L-9 OR SODDED UNDER ITEM L-10 SHALL HAVE COMMERCIAL FERTILIZER 12-12-12, APPLIED AT THE RATE OF TWENTY (20) POUNDS PER 1,000 SQUARE FEET.

## SEEDING AND PROTECTING

QUANTITIES FOR SEEDING ITEM L-9 ARE CALCULATED FOR ALL SOIL AREAS BETWEEN RIGHT-OF-WAY FENCE LINES. 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:

- 65% KENTUCKY 31 FESCUE
- 25% KENTUCKY BLUEGRASS
- 5% REDTOP
- 5% ALSIKIE CLOVER.

QUANTITIES FOR LOCAL ROAD SEEDING INCLUDES ALL SOIL AREA BETWEEN THE WORK LIMITS.

## CENTERLINE REFERENCE MONUMENTS

MONUMENTS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE CAST-IN-PLACE IN A CIRCULAR HOLE, EIGHT INCHES IN DIAMETER AND FORTY-FOUR INCHES IN DEPTH. TOP OF CONCRETE SHALL BE FINISHED TWO INCHES BELOW GROUND LEVEL AND THE UPPER SIX INCHES PORTION OF THE CONCRETE SHALL BE FORMED. A 16d NAIL SHALL BE EMBEDDED IN THE WET CONCRETE AS DIRECTED BY THE ENGINEER TO MARK THE CENTERLINE AND STATION.

## 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, THE 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 FOR PAYMENT.

## SODDING

SOD DEPTH "d" AS NOTED ON THE PLANS IS THE VERTICAL DISTANCE FROM THE DITCH BOTTOM TO THE POINT ON THE DITCH SLOPES TO WHICH SODDING IS PLACED. SOD WIDTH "w" AS NOTED ON THE PLANS IS THE WIDTH OF SOD REQUIRED PER LINEAL FOOT. ALL AREAS TO BE SODDED SHALL BE LOOSENEED TO A DEPTH NOT LESS THAN TWO INCHES JUST PRIOR TO LAYING SOD. COST SHALL BE INCLUDED FOR PAYMENT IN THE PRICE BID PER SQUARE YARD OF SODDING. A QUANTITY OF 1,200 SQUARE YARDS OF ITEM L-10 SODDING HAS BEEN PROVIDED IN THE GENERAL SUMMARY TO BE USED FOR EROSION CONTROL WHERE AND AS DIRECTED BY THE ENGINEER.

## COOPERATION BETWEEN CONTRACTORS

THE WORK COVERED BY THESE PLANS ADJOINS OTHER CONSTRUCTION SECTIONS OF S. R. 1 TO THE WEST AND TO THE EAST. IN THE EVENT THAT CONSTRUCTION ON THE ADJOINING SECTIONS IS BEING CARRIED ON SIMULTANEOUSLY WITH THIS SECTION, THE CONTRACTOR SHALL PLAN AND COORDINATE HIS WORK WITH THAT OF THE OTHER CONTRACTOR(S) SO THAT A MINIMUM OF INTERFERENCE AND INCONVENIENCE WILL RESULT.

## REMOVALS

ALL ITEMS MARKED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF BY HIM. WHERE PIPE IS MARKED FOR REMOVAL WITH HEADWALLS AND/OR CATCH BASINS INVOLVED, THE COST OF SUCH REMOVAL SHALL BE INCLUDED IN THE PRICE BID PER LINEAR FOOT FOR ITEM E-12 PIPE REMOVAL.

## CRUSHED AGGREGATE BASE COURSE

THE COMPLETED AGGREGATE BASE COURSE B-119 MAY BE USED FOR MAINTAINING LOCAL TRAFFIC ON THIS PROJECT. ANY DAMAGE DONE TO THE BASE, SUBBASE OR SUBGRADE BY LOCAL TRAFFIC SHALL BE REPAIRED BY RESHAPING RECOMPACTING AND BY ADDITION OF EXTRA B-119 MATERIAL AT NO ADDITIONAL COST TO THE STATE.

## EXCAVATION FOR STRUCTURES

AN ITEM E-2 EXCAVATION FOR STRUCTURES HAS BEEN INCLUDED IN THE COMPUTATION SHEET TO PROVIDE FOR ALL HEADWALL EXCAVATION UNDER ITEM I-2 STORM SEWERS.

## RECORDS

ITEMS SET UP IN THE GENERAL NOTES FOR USE UNDER THE DIRECTION OF THE ENGINEER SHALL REQUIRE PROPER RECORDS AND VERIFICATION BEFORE PAYMENT IS APPROVED.

## REPLACEMENTS

THE CONTRACTOR SHALL REPLACE AT HIS OWN EXPENSE ANY ITEM NOT SPECIFICALLY LISTED FOR REMOVAL THAT IS DAMAGED OR DESTROYED BY HIS OPERATIONS.

## TEMPORARY DRAINAGE

TEMPORARY DRAINAGE WILL BE REQUIRED FOR THE PIPE UNDERDRAINS AND SUBBASE DURING CONSTRUCTION OF THIS SECTION, PAYMENT FOR WHICH IS INCLUDED IN THE PRICE BID PER LINEAR FOOT FOR ITEM I-4 UNDERDRAIN.

## MANHOLE CASTING

WHERE MANHOLES ARE REQUIRED IN SLOPE AREAS, THE CASTING SHALL BE SET TO CONFORM WITH THE PLANE OF THE FINISHED SURFACE.

## GRATE ELEVATIONS

THE FLOW LINE OF GRATE ELEVATIONS SHOWN FOR I-8 #4 CATCH BASIN AND I-8 #5 CATCH BASIN IS THE LOWEST POINT ON THE GRATE.

## PIPE UNDERDRAINS

THE LOCATION OF THE TRANSVERSE PIPE UNDERDRAINS LOCATED AT THE POINTS CUT TO FILL AND FILL TO CUT MAY BE REVISED SLIGHTLY DURING CONSTRUCTION TO ASSURE THAT THE UNDERDRAINS WILL BE PLACED IN CUT.

## PIPE SPECIALS

I-5 PIPE SPECIALS HAVE BEEN COMPUTED ON THE BASIS OF 4' - 0".

## EXISTING DRAINAGE

IT IS ANTICIPATED THAT SOME EXISTING DRAINS OTHER THAN THOSE CARRYING DOMESTIC WASTE WILL BE INTERCEPTED AND SEVERED BY THE PROPOSED ROADWAY AND CHANNEL EXCAVATION. IN ANY SUCH CASE A SECTION OF THE PIPE SO SEVERED WILL BE REMOVED TO MAKE WAY FOR THE NECESSARY EXCAVATION. IF THE REMAINING PIPE FLOWS AWAY FROM THE EXCAVATION AND THE PLANS DO NOT INDICATE THAT IT IS TO BE USED AS AN OUTLET, IT SHALL BE BLOCKED AT ITS UPPER END IN ACCORDANCE WITH THE PROVISIONS OF ITEM 2.04. PAYMENT FOR PLUGGING IS INCLUDED IN THE UNIT PRICE BID FOR ITEM E101, ROADWAY EXCAVATION. IF THE PIPE FLOWS TOWARD THE DITCH EXCAVATION, THE TILE SHALL BE PRESERVED AND A PROPER OUTLET PROVIDED.

THE FOLLOWING QUANTITIES HAVE BEEN SET UP IN THE GENERAL SUMMARY TO BE USED FOR THE ABOVE PURPOSE AS DIRECTED BY THE ENGINEER.

I-3	6"	ROADWAY DRAINAGE	400	LIN. FT.	
I-3	8"	"	400	LIN. FT.	
I-3	8"	PIPE OUTLETS FOR ROADWAY DRAINAGE	100	LIN. FT. - SEC. M 6.4 (d)	
I-3	10"	"	50	LIN. FT.	"
I-3	12"	"	50	LIN. FT.	"
I-2	8"	UNDER PAVEMENT OR APPROACHES	1200	LIN. FT. - SEC. M 6.5 (b) OR M 6.8 (b)	
I-2	12"	"	600	LIN. FT.	"

## EROSION CONTROL AT HEADWALLS

AN 18" WIDE STRIP OF SOD SHALL BE PLACED ALONG THE BACK AND BOTH ENDS OF EACH STANDARD 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.

## AGRICULTURAL LIMING MATERIAL

AGRICULTURAL LIMING MATERIAL SHALL BE APPLIED TO SHALE SLOPES AT THE RATE OF 10 TONS PER ACRE.

## I-22 SUBBASE GRADING

I-22 SUBBASE GRADING A&B AS PER PLAN. MATERIAL FOR THIS ITEM SHALL MEET THE REQUIREMENTS FOR I-22 GRADING A OR B EXCEPT THAT FOR BOTH GRADINGS THE PERCENT PASSING NO. 200 SIEVE SHALL NOT EXCEED TEN.

## MAINTAINING LOCAL TRAFFIC

LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SEC. 6-4.05 AND SHALL BE UNDERSTOOD TO INCLUDE MAINTAINING ACCESS TO ADJACENT PROPERTIES AFFECTED BY ANY OF THE CONSTRUCTION OPERATIONS. QUANTITIES OF 150 CUBIC YARDS OF T-10, TRAFFIC COMPACTED SURFACE COURSE AND 3 TONS OF M-10 CALCIUM CHLORIDE HAVE BEEN PROVIDED FOR THE MAINTENANCE OF LOCAL TRAFFIC. COST OF THE ABOVE, EXCEPT FOR THE FURNISHING AND PLACING OF T-10 AND M-10 SHALL BE INCLUDED IN THE LUMP SUM BID FOR MAINTENANCE OF TRAFFIC.

## E-101 EMBANKMENT

IN ADDITION TO THE REQUIREMENTS OF SEC. E-101.08 (f) THE MOISTURE CONTENT OF ALL EMBANKMENT MATERIALS THAT DISPLAY PRONOUNCED ELASTICITY OR DEFORMATION UNDER THE ACTION OF CONSTRUCTION EQUIPMENT SHALL NOT EXCEED OPTIMUM AT THE TIME OF COMPACTION.

## DEEP LONGITUDINAL DRAINAGE

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.

## MAINTAINING TRAFFIC - VROOMAN ROAD

VROOMAN ROAD SHALL BE CLOSED TO TRAFFIC DURING THE CONSTRUCTION OF THE BRIDGE AND APPROACHES. LOCAL TRAFFIC SHALL BE MAINTAINED AT ALL TIMES IN ACCORDANCE WITH SEC. 6-4.05 OF THE OHIO STANDARD SPECIFICATIONS, AND IT SHALL BE UNDERSTOOD TO INCLUDE MAINTAINING ACCESS TO ADJACENT PROPERTIES AFFECTED BY ANY OF THE CONSTRUCTION OPERATION.