

# GENERAL NOTES

FED. RD. DIVISION	STATE	PROJECT	11
2	OHIO	ACI-1103 (21)	488

LAKE COUNTY  
LAK-1-12.89

## 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 1/4" NAIL SHALL BE EMBEDDED IN THE WET CONCRETE AS DIRECTED BY THE ENGINEER TO MARK THE CENTERLINE AND STATION. MONUMENTS SHALL NOT BE PLACED UNTIL SEEDING IS COMPLETED.

## 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, ITEM E-101, 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 I-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 LINEAL 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 LINEAL FOOT FOR ITEM I-4 UNDERDRAIN.

## MANHOLE CASTING

MANHOLE CASTINGS LOCATED IN SLOPES SHALL BE SET SO THAT THE COVER WILL CONFORM WITH THE PLANE OF THE SLOPED 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 GRADE.

## 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 E-101, 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. " "

THE AMOUNT AND LOCATION OF SUCH MATERIAL SHALL BE RECORDED AS USED AND SHALL BE SUBMITTED WITH FINAL ESTIMATE.

## 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.

## SHALE SLOPES

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

## SIGHT DISTANCE

BASIS FOR MEASURING SIGHT DISTANCE SHALL BE 4.0 FEET FOR HEIGHT OF EYE AND ZERO FEET FOR HEIGHT OF OBJECT. THE MINIMUM STOPPING SIGHT DISTANCE ON THIS PROJECT IS 600 FEET.

## REMOVAL OF BUILDINGS

WHERE THE PLAN SHOWS A STRUCTURE TO BE REMOVED UNDER ITEM S-24, THE ENTIRE BUILDING WITHIN AND WITHOUT THE RIGHT-OF-WAY SHALL BE REMOVED TO GROUND LEVEL AND THE BASEMENT FILLED.

## 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

AGGREGATE AND CHLORIDE REQUIRED FOR MAINTENANCE OF LOCAL TRAFFIC, IN ACCORDANCE WITH THE PROVISIONS OF SECTION C-4.05 OF THE SPECIFICATIONS, IS PROVIDED IN THE SUMMARY OF QUANTITIES IN THE FOLLOWING AMOUNTS:

150 CU. YDS. TRAFFIC COMPACTED SURFACE COURSE ITEM T-10  
3 TONS CALCIUM CHLORIDE OR CALCIUM MAGNESIUM CHLORIDE ITEM M-10  
REQUIREMENTS FOR HARDNESS AND SOUNDNESS WILL BE WAIVED FOR AGGREGATE USED FOR MAINTAINING LOCAL TRAFFIC.

## ELONGATION OF PIPES

CORRUGATED METAL PIPES SHALL BE SHOP DEFORMED TO PRODUCE AND MAINTAINED 5% VERTICAL ELONGATION, WHERE INDICATED IN THESE PLANS.

## 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.

## LINE DATA CALCULATION FOR APPROACHES LENGTH OF WORK ON APPROACHES

RELOC. S.R. 44 STA. 118+01.12 TO STA. 131+17.31 NET LENGTH OF WORK	=	1,316.19 LIN. FT.
RELOC. CONCORD ROAD STA. 78+07.56 TO STA. 113+50 NET LENGTH OF WORK	=	3,542.44 LIN. FT.
EXISTING S.R. 44 STA. 22+00.00 TO STA. 37+00.00 NET LENGTH OF WORK	=	1,500.00 LIN. FT.
RELOC. HUNTOON ROAD STA. 86+86.12 TO STA. 109+59.98 NET LENGTH OF WORK	=	2,273.86 LIN. FT.
S.R. 86 STA. 22+08.00 TO STA. 42+00.00 DEDUCT FOR EQUATION	=	0.56
NET LENGTH OF WORK	=	1,991.44 LIN. FT. 10,623.93

TRAFFIC ON S.R. 44. TWO WAY TRAFFIC SHALL BE MAINTAINED ON S.R. 44 DURING THE CONSTRUCTION OF THE BRIDGE AND APPROACHES. A TEMPORARY RUNAROUND (ITEM S-15) USING CLASS B PAVEMENT HAS BEEN PROVIDED FOR THIS PURPOSE. TEMPORARY RUNAROUND WILL BE BUILT TO THE LINES AND GRADES SHOWN ON THE PLANS. COST OF THE ABOVE SHALL BE INCLUDED IN ITEM S-15 LUMP SUM TEMPORARY RUNAROUND. AFTER CONSTRUCTION IS COMPLETED THE CONTRACTOR WILL REMOVE THE RUNAROUND IN ACCORDANCE WITH ITEM S-15.

TRAFFIC ON S.R. 86. TWO WAY TRAFFIC SHALL BE MAINTAINED ON S.R. 86 DURING THE CONSTRUCTION OF THE BRIDGE AND APPROACHES. A TEMPORARY RUNAROUND (ITEM S-15) USING CLASS B PAVEMENT HAS BEEN PROVIDED FOR THIS PURPOSE. TEMPORARY RUNAROUND WILL BE BUILT TO THE LINES AND GRADES SHOWN ON THE PLANS. COST OF THE ABOVE SHALL BE INCLUDED IN ITEM S-15 LUMP SUM TEMPORARY RUNAROUND. AFTER CONSTRUCTION IS COMPLETE THE CONTRACTOR WILL REMOVE THE RUNAROUND IN ACCORDANCE WITH ITEM S-15.

TRAFFIC ON CONCORD ROAD. TWO WAY TRAFFIC SHALL BE MAINTAINED UNTIL AFTER CONSTRUCTION OF RELOCATED CONCORD ROAD IS COMPLETE TO THE LINES AND GRADES SHOWN ON THE PLANS. CONCORD ROAD MAY BE CLOSED FOR A PERIOD NOT TO EXCEED 4 WEEKS FOR THE PURPOSE OF GRADING, DRAINING AND PAVING AS PER PLAN.

TRAFFIC ON HUNTOON ROAD. TWO WAY TRAFFIC SHALL BE MAINTAINED UNTIL AFTER CONSTRUCTION OF RELOCATED HUNTOON ROAD IS COMPLETE TO THE LINES AND GRADES SHOWN ON THE PLANS. HUNTOON ROAD MAY BE CLOSED FOR A PERIOD NOT TO EXCEED 4 WEEKS FOR THE PURPOSE OF GRADING, DRAINING AND PAVING AS PER PLAN.

THE CONTRACTOR'S OPERATIONS SHALL BE SCHEDULED SUCH THAT THE WORK REQUIRED TO RECONSTRUCT CONCORD ROAD AND HUNTOON ROAD SHALL BE COMPLETED PRIOR TO WORK ON S.R.-1 AT THESE TWO LOCATIONS.

TRAFFIC ON AUBURN ROAD SHALL BE MAINTAINED AT ALL TIMES. THE CONTRACTOR SHALL EXERCISE CARE DURING THE CONSTRUCTION OF THE BRIDGE SO THAT TRAFFIC CAN BE SAFELY MAINTAINED.

THE CONTRACTOR ON RELOC. S.R. 44 SHALL FIRST COMPLETE THE EMBANKMENT TO SUBGRADE ELEVATION TO THE FOLLOWING STATIONS: STA. 118+50 WITH 4:1 SLOPE TO EXISTING GROUND AT APPROXIMATELY STA. 121+00 AND STA. 130+75 WITH 4:1 SLOPE TO EXISTING GROUND AT APPROXIMATELY STA. 129+20. THE CONTRACTOR ON S.R.1 SHALL IMMEDIATELY, ON COMPLETION OF THE S.R. 44 EMBANKMENT, COMPLETE HIS EMBANKMENT BETWEEN THE ABOVE MENTIONED STATIONS. THE LIMITING STATIONS OF WORK FOR THE S.R.1 CONTRACTOR ON RELOC. S.R. 44 FOR PAVEMENT, ETC. ARE STA. 118+01.12 AND STA. 131+17.31.

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## CONTRACTORS AUTHORIZATION TO PERFORM WORK AT S.R.1

THE STATE OF OHIO WILL PROVIDE THE CONTRACTOR FOR RELOCATED S.R.1 WITH NECESSARY AUTHORIZATION TO ENTER UPON AND PERFORM THE WORK LYING WITHIN S.R. 44 RIGHT OF WAY BETWEEN THE FOLLOWING RELOCATED S.R. 44 STATIONS:

STA. 131+17.31 TO STA. 132+00