

GENERAL SUMMARY

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		3 3

LAKE COUNTY
LAK-90 (13.70-25.57)

GENERAL NOTES

MAINTENANCE OF TRAFFIC

Two way traffic shall be maintained at all times. If necessary, the Contractor may close the south half of the existing eastbound pavement and the north half of the existing westbound pavement to traffic and use these areas for his construction operations. The duration of closure of these lanes shall be held to a minimum consistent with good construction procedure. The north half of the existing eastbound pavement and the south half of the existing westbound pavement shall be kept open to traffic at all times and the Contractor shall arrange his operations so as to prevent any interference to the continuous flow of traffic in these lanes. Traffic shall be maintained on the interchange ramps at all times.

Section G-7.07 shall be strictly adhered to throughout the life of this contract. Payment for all of the above shall be included in the lump sum bid for maintaining traffic.

TRENCHING

The open trench shall be adequately maintained and protected with temporary guide markers or barricades at all times. Placement of the proposed base courses shall follow as closely as possible behind the excavation operations. The length of trenched area which is open at any one time shall be held to a minimum and shall at all times be subject to the approval of the Engineer.

DISPOSAL OF EXCAVATED BERM MATERIAL

All excess excavated paved berm material shall be hauled to the State Highway Maintenance Outpost on Vrooman Road and stockpiled as directed by the Engineer.

ITEM T-35 ASPHALTIC CONCRETE SURFACE COURSE, TYPE "C" (85-100)

An estimated quantity of 475 Cu.Yd. is provided in the general summary for use as directed by the Engineer for filling of depressions and building up paved berm to original grade.

ITEM I-18 STABILIZED CRUSHED AGGREGATE SHOULDERS AND APPROACHES USING NO. 46 AGGREGATE, AS PER PLAN

In lieu of the material requirements of Sec. I-18.02 of the Construction and Material Specifications, aggregate for this item shall meet the requirements of Sec. M-3.3, Sec. M-3.7 or Sec. M-3.11 and shall be of No. 46 size.

When tested in accordance with the method of test for soundness of aggregates by use of sodium sulphate, A.A.S.H.O. designation T-104, the weighted average loss in five cycles shall not exceed 25 percent, except where an aggregate proposed for use is on record at the laboratory as a type such that the major portion of the unsound material acquires a mud-like condition when tested for soundness, the soundness loss shall not exceed 5%.

ITEM I-9 STONE UNDERDRAINS NO. 2, AS PER PLAN

In lieu of Sec. I-9.02 of the Specifications, the aggregate used for this item shall be size No. 46.

ITEM No	QUANTITY	UNITS	DESCRIPTION
E-1	6713	Cu.Yd.	Roadway Excavation, Method B, as per plan
I-9	1260	Lin.Ft.	Stone Underdrains No. 2, as per plan
I-18	4282	Cu.Yd.	Stabilized Crushed Aggregate Shoulders and Approaches, using No. 46 Aggregate, as per plan
B-21	2431	Cu.Yd.	Waterproofed Aggregate Base Course, as per plan
T-31	42054	Gal.	Bituminous Surface Treatment, Bituminous Material Sec. M-5.2 RC-3, Sec. M-5.3 MC-5, Sec. M-5.5 RS-1 or RS-2 or Sec. M-5.12 CBAE-3.
T-31	1203	Cu.Yd.	Bituminous Surface Treatment, No. 6 Aggregate
T-35	475	Cu.Yd.	Asphaltic Concrete Surface Course, Type C (85-100)

Location	Station to Station	Paved Berm Widths					Aggregate Drains				B-21 as per plan	I-18 using No. 46 Aggregate	T-31			E-1 Roadway Excavation	I-9 Stone Underdrains No. 2				
		4' to 8'	8' to 10'	10' to 10'	10' to 10'	10' to 20'	Transverse			Total all drains			Sq. Yd.	Bituminous Material @ 0.28 Gal. per Sq. Yd.	No. 6 Aggregate @ 0.008 Cu. Yd. per Sq. Yd.						
		Longitudinal	5'x9" Long	8'x0" Long	10'x0" Long	Lin. Ft.	No.	Lin. Ft.	No.									Lin. Ft.	No.	Lin. Ft.	No.
S.R. 44 Interchange	Ramp B	213	528	510			1251	16	92	5	40		1383	22	39	1253	351	10	61	25	
"	Ramp D	79	1059	294			1432	12	69	12	96		1597	25	45	1348	378	11	70	60	
Main Line E.B. & W.B.	383+49.12 to 456+58.83			14620			14620	244	1403				16023	252	445	16244	4548	130	697		
"	456+61.36 to 460+27.75			733			733	13	75				808	13	23	815	228	7	36		
Bridge over Big Cr.	460+27.75 to 463+72.25	No Work Required																			
Main Line E.B. & W.B.	463+72.25 to 595+39.76			26335			26335	439	2525				28860	453	802	29261	8193	234	1255		
Vrooman Rd. Interchange	Ramp E	61	150	566	901		1578	21	121	6	48		1747	28	49	1584	444	13	77	30	
"	Ramp F	63	150	521	453		1187	20	115				1302	21	37	1159	325	9	58		
"	Ramp G	60	150	791	566		1587	22	127	5	40		1734	28	49	1522	426	12	77	25	
"	Ramp H	63	100	571	453		1187	20	115				1302	21	37	1153	323	9	58		
"	Main Line E.B. & W.B.			2545	930		3475	56	322				3797	60	106	4378	1226	35	166		
Main Line E.B. & W.B.	622+15.80 to 651+26.85	No Work Required																			
Bridge over Paine Cr.	651+26.85 to 656+21.80			6076			6076	62	357			40	400	6833	108	190	6751	1890	54	298	560
Main Line E.B. & W.B.	656+21.80 to 686+59.45			28758			28758	480	2760				31518	495	876	31953	8947	256	1371		
Main Line E.B. & W.B.	686+29.94 to 830+09	No Work Required																			
Bridge over Grand R.	830+09 to 838+68.50			10564			10564	176	1012				11576	182	322	11737	3286	94	504		
Main Line E.B. & W.B.	838+68.50 to 891+50.47			21477			21477	358	2059				23536	370	654	23864	6682	191	1024		
Main Line E.B. & W.B.	927+50 to 1034+88.36			1275			1275	17	98	5	40		1413	23	40	1122	314	9	63	25	
S.R. 528 Interchange	Ramp I	80	260	582	353		1599	27	155				1754	28	49	1593	446	13	77		
"	Ramp J		200	727	672		1115	15	86	4	32		1233	19	35	1073	300	9	54	20	
"	Ramp K	80	110	529	396		1452	19	109	5	40		1601	26	45	1367	383	11	71	25	
"	Ramp L	95	200	821	336		2703	61	351				3983	63	111	3004	841	24	174		
"	Main Line E.B. & W.B.			2288	929		2288	38	219				2507	40	70	2542	712	20	110		
Main Line E.B. & W.B.	7+56 to 19+00			2288			2288	38	219				2507	40	70	2542	712	20	110		
Add for use as Directed by the Engineer (For additional transverse drains)							2505			68		150	51	76					127	210	
Totals to General Summary													2431	4282			42054	1203	6713	1260	

PLAN QUANTITIES:

Plan quantities for Items E-1, B-21 and I-18 have been calculated based on the following widths:

- B-21 15" Width (Longitudinal) & 18" Width (Transverse).
- I-18 12" Width
- E-1 12" Width as for I-18 & 15" and 18" Widths as for B-21.

Payment will be made for the above items on the basis of the quantities calculated using these widths, and no additional payment will be allowed for quantities of these items in excess of those shown in the plans due to deviation of the widths specified.

Section B-21.23 Measurement is hereby modified accordingly for Item B-21.

ITEM B-21 WATERPROOFED AGGREGATE BASE COURSE, AS PER PLAN

If the Contractor so elects, he may furnish and place 4 inches of item T-35 Asphaltic Concrete Surface Course, Type "A" (85-100) in lieu of the 4" of item B-21 specified on this project, at no additional cost to the State. The T-35 asphaltic concrete, if used, shall be placed in layers not to exceed 3" compacted depth.

If T-35 material is substituted for the B-21 base as specified above, all of the provisions of item T-35 shall apply except as follows:

(a) The required bitumen content as specified in Sec. T-35.07 will be increased approximately one to one and one half percentage points over that normally required for use in pavement construction.

(b) Sec. T-35.27 "Basis of Payment" shall be altered in part to read "per cubic yard for item B-21 Waterproofed Aggregate Base Course, as per plan".