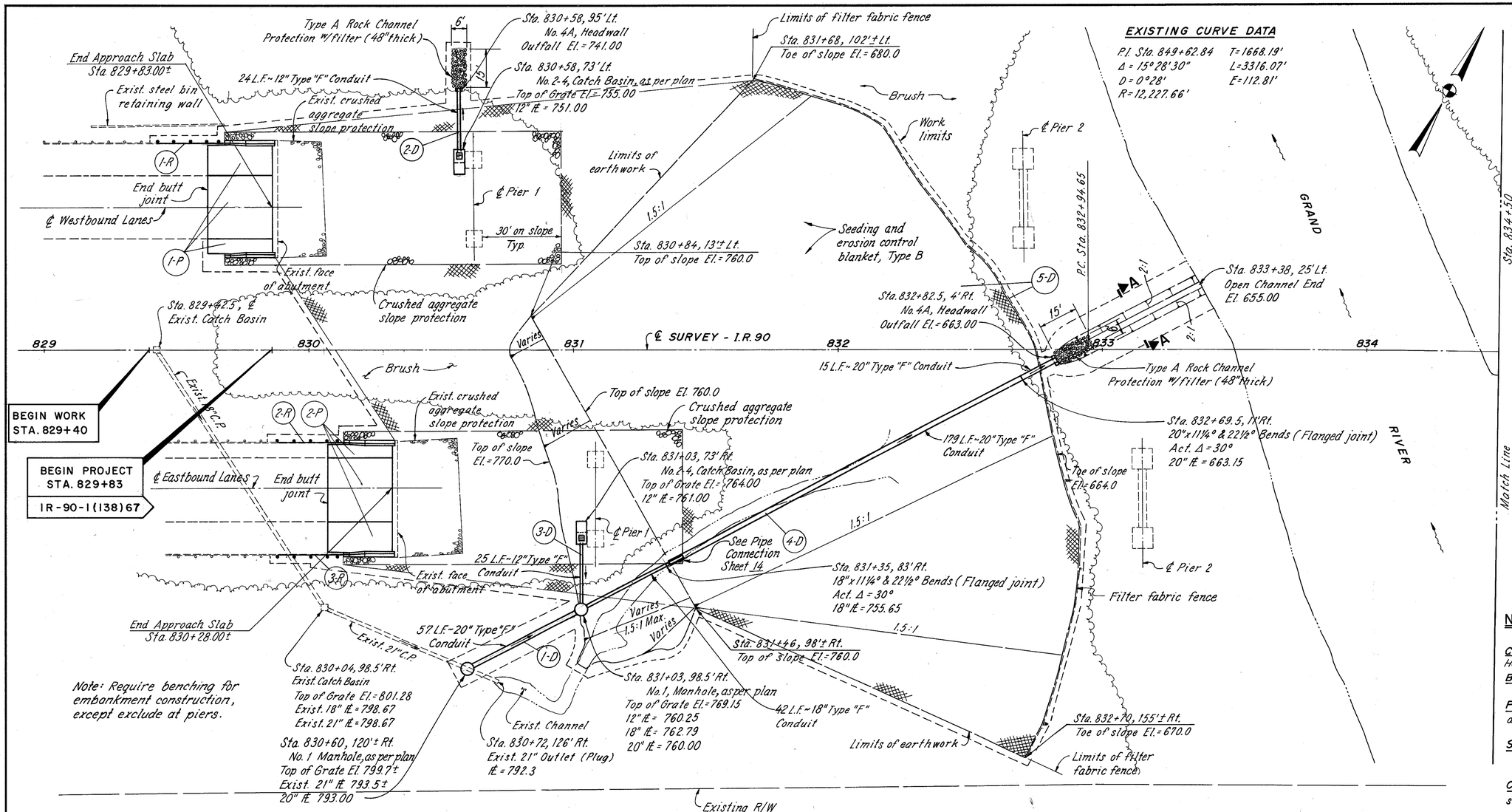

FHWA REGION	STATE	PROJECT		4 / 38
5	OHIO			

LAKE COUNTY
LAK-90-23.42 (L&R)

QUANTITIES		
CALCULATED	DT	1/89
CHECKED	JS	1/89

SEEDING QUANTITY:
228 x 300 = 68,400
40 x 80 = 3200
Deduct
4.9 x 125 x 2 = 12,250
59,350 ÷ 9 = 6594.4 S.Y.

REFERENCE NO.	SIDE	STATION FROM	STATION TO	601 Type A Rock Channel Protection w/Filter (48" Th.) C.Y.	602 Concrete Masonry As Per Plan C.Y.	603 12" Conduit, Type "F" L.F.	603 18" Conduit, Type "F"; Using Ductile Iron Pipe APP. L.F.	603 20" Conduit, Type "F"; Using Ductile Iron Pipe APP. L.F.	604 Manhole No. 1, As Per Plan Ea.	604 Catch Basin, No. 2-4, As Per Plan Ea.	207 Filter Fabric Fence L.F.	843 Seeding and Erosion Control Blanket, Type B S.Y.
1-D	Rt.	830+60	831+03					57	2			
2-D	Lt.	830+58	830+58	14	0.4	24				1		
3-D	Rt.	831+03	831+03			25				1		
4-D	Rt.	831+03	832+82.5	14	0.4		42	194			320	5906
5-D	Lt-Rt.	829+68	832+92								320	5906
			TOTALS	28	0.8	49	42	251	2	2	320	5906

REFERENCE NO.	SIDE	STATION FROM	STATION TO	202 Guardrail Removed For Reuse L.F.	202 Wearing Course Removed (2½" thick) S.Y.	403 Asphalt Concrete AC-20 (1"±Thick) C.Y.	407 Tack Coat Gal.	606 Bridge Terminal Assembly, Type A Ea.	606 Guardrail, Rebuilt Type 5 L.F.	404 Asphalt Concrete w/Verglimi Additive AC-20 (1¾" Thick), as per plan C.Y.
1-R	Lt.	829+40.5	829+65.5	25				1	25	
2-R	Rt.	829+85.5	830+10.5	25				1	25	
3-R	Rt.	829+85.5	830+10.5	25				1	25	
1-P	Lt.	829+58	829+83		110.2	3.1	11.0			3.8
2-P	Rt.	830+03	830+28		110.2	3.1	11.0			3.8
			TOTALS	75	220.4	6.2	22.0	3	75	7.6

NOTES

CONCRETE MASONRY AS PER PLAN: No. 4A, Headwall except for no anchors needed. **BRIDGE SUPERSTRUCTURE** not shown.

PROFILES for Type "F" Conduits and drainage details shown on sheet 6.

SECTION A-A: See sheet 5.

CROSS SECTIONS for earthwork on sheet 8 thru 13.

Excavation	28 C.Y.
Embankment	9303 C.Y.
Seeding	6595 S.Y.
Fertilizer	0.59 Ton

RICHLAND ENGINEERING LIMITED
MANSFIELD, OHIO

PLAN SHEET
STA. 829+00 TO STA. 834+50

BRIDGE NO. LAK-90-2342 (L&R) OVER THE GRAND RIVER

LAKE COUNTY I.R. 90

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
DHT	KH	KH	JR	DAP	9/13/89	