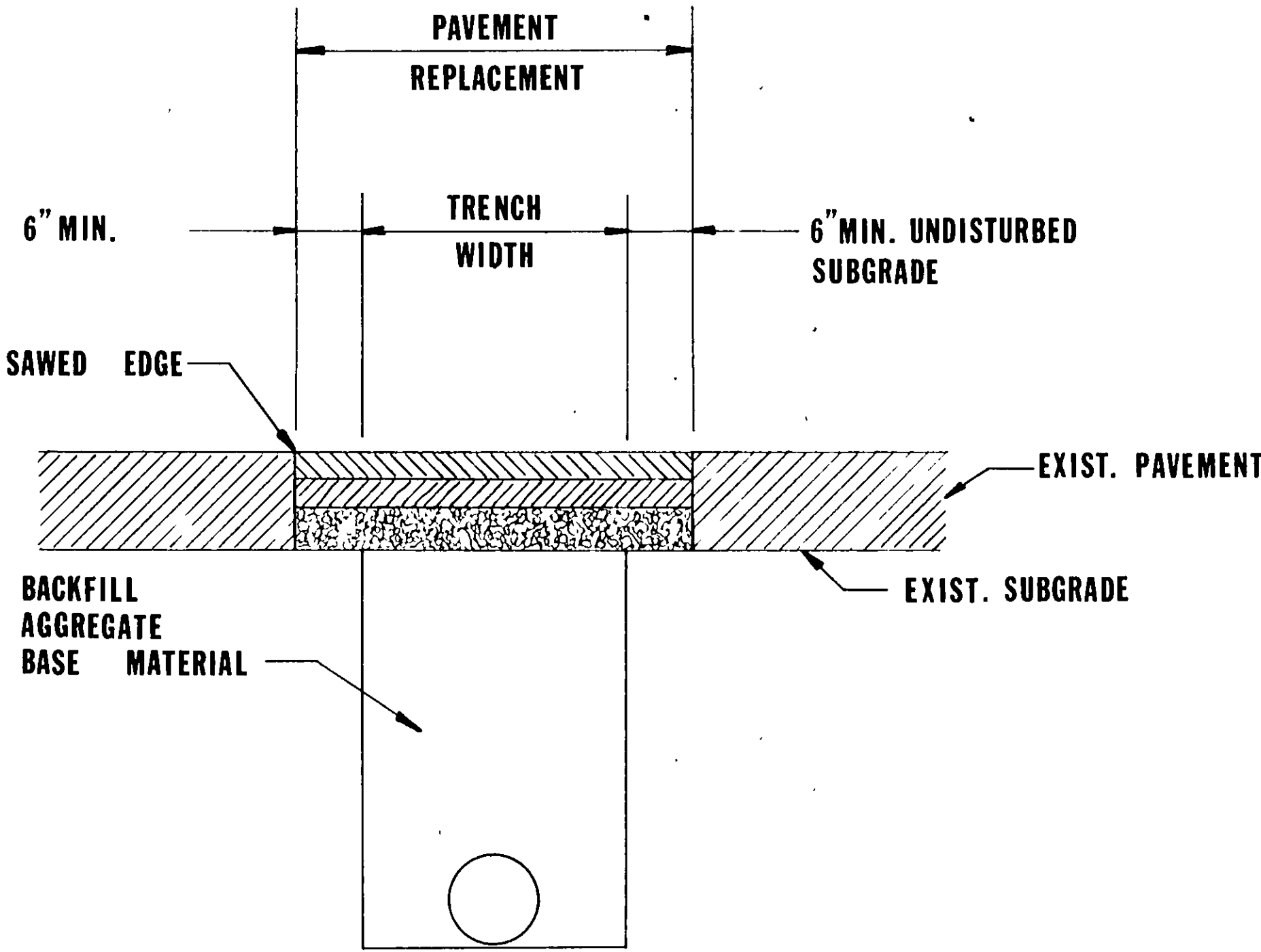


SUMMARY OF QUANTITIES

ITEM	UNIT	QUANTITY		
		ACTUAL	ESTIMATED	
8" PIPE (COMPLETE IN PLACE)	LF	5173	5690	
SERVICE CONNECTIONS	LF	1140	1254	
ROCK EXCAVATION	CY	306	335	
TRENCH STABILIZATION MATERIAL	CY	30	35	
SELECT BACKFILL MATERIAL	CY	306	335	
MANHOLE BARREL (4' DIAMETER)	VF	122	134	
STANDARD MANHOLE FRAMES AND COVERS	EA	26	26	
AGGREGATE BASE MATERIAL	TON	1674	1845	
BITUMINOUS CONCRETE BASE MATERIAL	TON	158	175	
BITUMINOUS CONCRETE SURFACE MATERIAL	TON	88	97	
SEEDING	SF	51,460	56,600	



TYPICAL DETAIL
PAVEMENT CUTTING & REPLACEMENT
NO SCALE

QUANTITIES AND DETAILS
FOR
CRAVENS-BARNHART
SEWAGE COLLECTION SYSTEM
PROJECT II
CITY OF ROANOKE, VIRGINIA
SCALE: AS NOTED DATE: 17 OCTOBER 1980

AS BUILT

BUFORD T. LUMSDEN & ASSOCIATES, P. C.
CERTIFIED LAND SURVEYORS
ROANOKE, VIRGINIA

Buford T. Lumsden