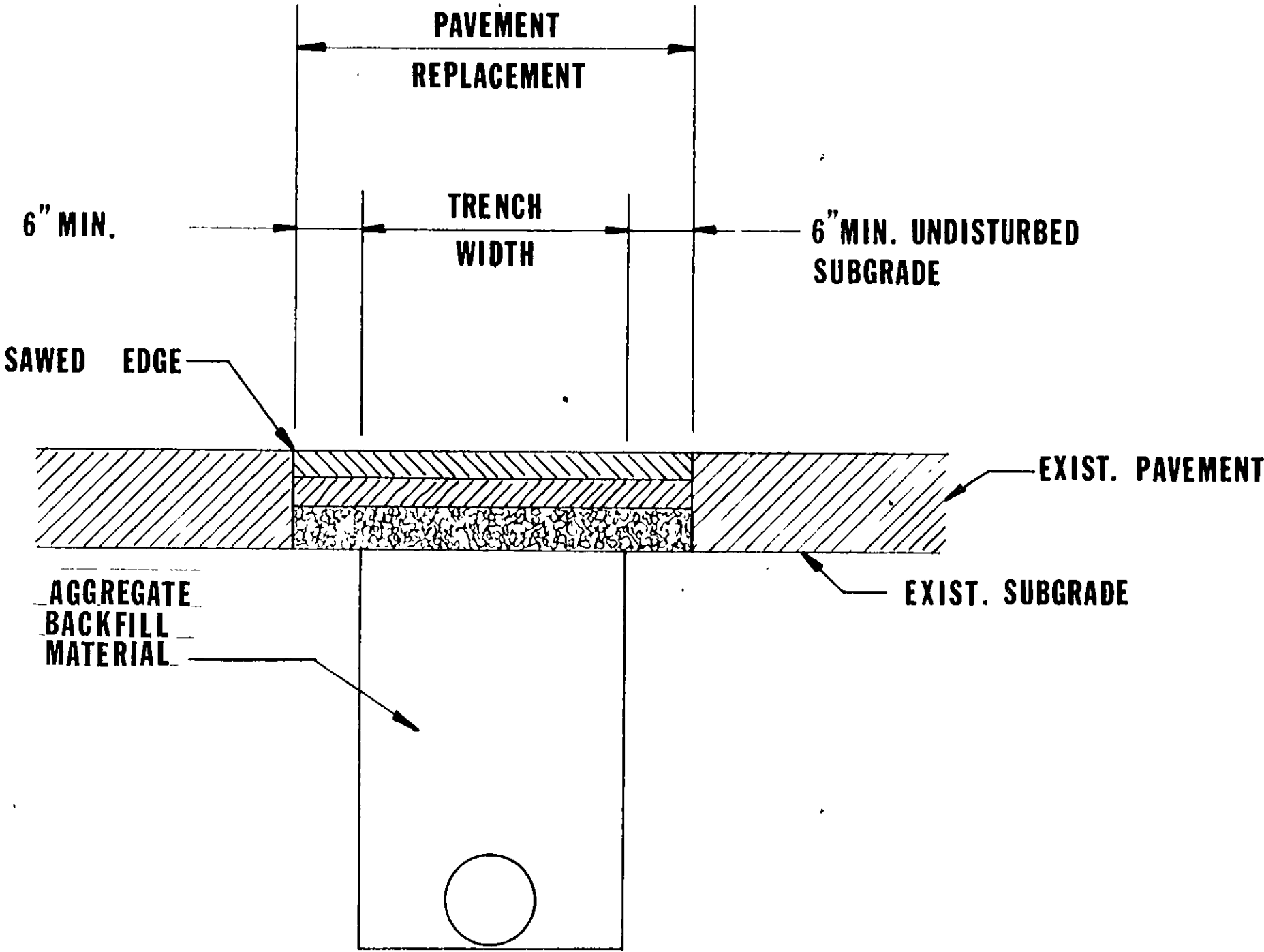


SUMMARY OF QUANTITIES

| ITEM                                 | UNIT | QUANTITY |           |  |
|--------------------------------------|------|----------|-----------|--|
|                                      |      | ACTUAL   | ESTIMATED |  |
| 8" PIPE (COMPLETE IN PLACE)          | LF   | 5504     | 6055      |  |
| SERVICE CONNECTIONS                  | LF   | 855      | 940       |  |
| ROCK EXCAVATION                      | CY   | 287      | 315       |  |
| TRENCH STABILIZATION MATERIAL        | CY   | 31       | 35        |  |
| SELECT BACKFILL MATERIAL             | CY   | 287      | 315       |  |
| MANHOLE BARREL (4' DIAMETER)         | VF   | 140      | 155       |  |
| STANDARD MANHOLE FRAMES AND COVERS   | EA   | 23       | 23        |  |
| WATERTIGHT MANHOLE FRAMES AND COVERS | EA   | 5        | 5         |  |
| AGGREGATE BACKFILL MATERIAL          | TON  | 1663     | 1830      |  |
| COARSE AGGREGATE MATERIAL            | TON  | 1        | 1         |  |
| BITUMINOUS CONCRETE BASE MATERIAL    | TON  | 103      | 115       |  |
| BITUMINOUS CONCRETE SURFACE MATERIAL | TON  | 64       | 70        |  |
| SEEDING                              | SF   | 68,720   | 75,600    |  |



TYPICAL DETAIL  
PAVEMENT CUTTING & REPLACEMENT  
NO SCALE

AS BUILT

QUANTITIES AND DETAILS  
FOR  
**CRAVENS-BARNHART**  
**SEWAGE COLLECTION SYSTEM**  
PROJECT III  
CITY OF ROANOKE, VIRGINIA  
SCALE: AS NOTED    DATE: 21 NOV. 1980

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CERTIFIED LAND SURVEYORS  
ROANOKE, VIRGINIA