# SUMMARY OF QUANTITIES

| FED. RD. DIST. NO. | STATE | FED. AID PROJECT | FISCAL YEAR |
|---|---|---|---|
| 10 | OH10 | 5 A (5) | 1941 |

42
42

**LAKE COUNTY**
**S.H. 2 - SEC. Q (PT.)**

## ROADWAY

### STORM SEWERS

| Sheet No. | Full depth Por. Bk. fill Per Con. M.P. 6" | Outlet Pipe 18" | Pipe Lin. Ft. 12" | 15" | 18" | 24" | Pipe under Pav't. Lin. Ft. 12" | 24" | Outlet Pipe 12" | 15" | Catch Basins - Each 13 X | 13 Y | 2-3 | 2-2 | G | Manholes Each Special | "I Std. | Concrete Class "C" Cu. Yds. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DUAL | | | | | | | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | | | | | | | |
| 9 | | | 56 | | | | 319 | | | | 2 | 2 | 1 | | | | | |
| 10 | | | 1053 | 649 | | | 203 | | | 16 | 12 | | | 1 | | 7 | | 0.1 |
| 11 | | | 715 | | | | 99 | | | | 6 | | | | | 3 | | |
| 12 | | | 907 | | | | 165 | | | | 10 | | | | | 5 | | |
| 13 | | | 556 | | | | 132 | | 20 | | 8 | | | | | 3 | | |
| 14 | | | 410 | 474 | 231 | | 165 | | | | 10 | | | | | 5 | | |
| 15 | | | 360 | | 863 | | 99 | | | | 6 | | | | | 3 | | 2.4 |
| 16 | | | 389 | 504 | | | 164 | | | | 5 | 2 | | | | 2 | 2 | |
| 17 | 392 | | 140 | | | | 29 | | | | 2 | | | | | 1 | | |
| 18 | 1576 | 16 | 104 | 573 | 552 | | 149 | | | | 10 | | | | | 4 | 1 | 0.1 |
| 19 | | | 578 | 537 | | | 165 | | | | 10 | | | | | 5 | | |
| 20 | | | 144 | | | | 171 | | | | 2 | 1 | | | | 1 | | |
| Totals | 1968 | 16 | 5412 | 2739 | 1646 | | 1866 | | 20 | 16 | 83 | 5 | 1 | 1 | | 39 | 3 | 2.6 |
| T-71 | | | | | | | | | | | | | | | | | | |
| 16 | | | 6 | 163 | 43 | | | | | | 1 | | | | | 1 | | |
| 17 | | | 192 | | 245 | 26 | | 32 | 16 | | 3 | | | | 2 | 1 | 1 | 0.1 |
| TOTAL | | | 198 | 163 | 288 | 26 | | 32 | 16 | | 4 | | | | 2 | 1 | 2 | 0.1 |

| Sheet No. | Drives T-70 Sq. Yds. | Drives I-17 Cu. Yds. | Sidewalks - Sq. Ft. New 4" Thick | Sidewalks - Sq. Ft. Removal Existing | Trees & Stumps Removal Each | Existing Pav't Removal Sq. Yds. | Existing Pav't Removal 2'x9" Curb Lin. Ft. | Sealing (Only) Edges Exist. Pav't Lin. Ft. | Existing Structures Removal - Lump Manholes | Inlets | H'walls | Guard Rail - Lin. Ft. Removed and Rebuilt |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DUAL | | | | | | | | | | | | |
| 6 | | | | | | | | | | | | |
| 9 | 521.8 | 70.8 | 3947.6 | 65 | 4 | 35.6 | | 3822 | | 2 | | |
| 10 | 711.4 | 6.6 | 4618.0 | | 15 | 106.8 | 36.0 | 4640 | | 1 | | |
| 11 | 119.0 | 17.8 | 4690.6 | | 10 | 53.4 | | 4520 | | | | |
| 12 | 23.8 | 5.4 | 4884.75 | | 5 | 89.0 | | 4600 | | | | |
| 13 | 204.0 | 61.3 | 3775.5 | | 43 | 71.2 | | 4560 | | | | |
| 14 | 59.5 | 11.9 | 4754.25 | | 13 | 89.0 | | 4600 | | | | |
| 15 | 325.2 | 25.9 | 4070.0 | 251 | 15 | 71.2 | | 4560 | | 2 | | |
| 16 | 174.0 | 27.2 | 3120.8 | | 17 | 53.4 | 79.0 | 3678 | | | | |
| 17 | 31.5 | 4.3 | | | | 17.8 | 146.4 | 1383 | | | | |
| 18 | | | | | 5 | 89.0 | | 4600 | | 1 | 1 | |
| 19 | 95.2 | 17.0 | | | 14 | 89.0 | | 4600 | | | | |
| 20 | 11.9 | 4.3 | | | 13 | 17.8 | | 1207 | | | | |
| Totals | 1637.3 | 252.5 | 33861.5 | 316 | 154 | 783.2 | 261.4 | 46770 | | 6 | 1 | |
| T-71 | | | | | | | | | | | | |
| 16 | 11.9 | 2.0 | 882.0 | | 5 | | | 421 | | 1 | | |
| 17 | 334.5 | 65.8 | 544.5 | | | 322.2 | | 1358 | 3 | 1 | 1 | 128 |
| TOTAL | 346.4 | 67.8 | 1426.5 | | 5 | 322.2 | | 1779 | 3 | 2 | 1 | 128 |

| Sheet No. | Pipe Removed Lin. Ft. 6" | 12" | 15" | 24" | 24" x 12" Tee | Pipe Specials Each 12" x 6" Tee | 12" x 6" Dbl. Tee | 12" x 6" Y | Exist. Wear Course Rem. & Disp. Sq. Yd. | Paved Gutter Rem. & Disp. Lin. Ft. | Riprap Type "A" Sq. Yds. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DUAL | | | | | | | | | | | |
| 6 | | | | | | | | | | | |
| 9 | | | | | | | | | 122.2 | 204 | |
| 10 | | 751 | | | | | | | | | |
| 11 | | | | | | | | | | | |
| 12 | | | | | | | | | | | |
| 13 | | | | | | | | | | | |
| 14 | | | | | | | | | | | |
| 15 | | | | | | | | 1 | | | 5.0 |
| 16 | 56 | 889 | | | | | | | 70.2 | | |
| 17 | | | | | | 2 | | | 196.8 | | |
| 18 | | | 130 | | | 6 | 2 | | | | |
| 19 | | | | | | | | | | | |
| 20 | | | | | | | | | | | |
| Totals | 56 | 2576 | 130 | | | 8 | 2 | 1 | 389.2 | 204 | 5 |
| T-71 | | | | | | | | | | | |
| 16 | | 209 | | | | | | | | | |
| 17 | | 523 | | 100 | 1 | | | | | | |
| TOTAL | | 732 | | 100 | 1 | | | | | | |

## EARTHWORK

| Station From | Station To | Cu. Yds. Exc. | Emb. | Emb. + 50% |
|---|---|---|---|---|
| 566+55.54 | 576+00 | 631 | 300 | 450 |
| 576+00 | 587+00 | 877 | 372 | 558 |
| 587+00 | 598+00 | 718 | 766 | 1149 |
| 598+00 | 609+00 | 814 | 991 | 1486 |
| 609+00 | 620+00 | 673 | 1506 | 2259 |
| 620+00 | 631+00 | 940 | 751 | 1127 |
| 631+00 | 642+00 | 536 | 539 | 808 |
| 642+00 | 650+89.5 | 479 | 475 | 713 |
| 660+64.3 | 675+0 | 1497 | 2173 | 3260 |
| 675+00 | 688+91.7 | 1204 | 743 | 1115 |
| TOTAL DUAL | | 8369 | 8617 | 12,925 |
| TOTAL T-71 | | | | |
| 650+89.5 | 660+64.3 | 929 | 603 | 904 |

TOTAL BORROW - DUAL = 12025 - 8369 = 4556 C.Y.
TOTAL SURPLUS - T-71 = 929 - 904 = 25 C.Y.
NET BORROW = 4556 - 25 = 4531 C.Y.

## STRUCTURES REMOVED - DUAL

| Detail Sheet No | Mark | Remove Pipe + Store 12" Lin. Ft. | Remove Inlets Lump | Plug Ends of Culvert 12" Vit. Stopper Each | Excavation Cu. Yds. | Channel Excavation Cu. Yds. | Concrete Class "C" Cu. Yds. | Remove Part of Headwall Cu. Yds. |
|---|---|---|---|---|---|---|---|---|
| 40 | C-1 | 12 | 2 | 2 | | | | |
| 40 | C-2 | | | 2 | 2.0 | 5.0 | 3.3 | 0.6 |
| Total | | 12 | 2 | 4 | 2.0 | 5.0 | 3.3 | 0.6 |

## PAVEMENT

| Sheet No. | Sandstone Curb Deduction Lin. Ft. | Sandstone Curb Addition Lin. Ft. | B-71 8" Replacem't Sq. Yds. | Extra B-50 Level'g Course Cu. Yds. | Extra B-50 Base and Leveling Course Sq. Yds. | Extra Insulation Course 1¼" Sq. Yds. | T-71 9'-7"-7'-9 R. Con. Pav't Sq. Yds. | Approach Slab Class 'D' Conc. Sq. Yds. |
|---|---|---|---|---|---|---|---|---|
| 9 | 786.5 | | 35.6 | | | | | |
| 10 | 132.0 | | 106.8 | | 8.0 | 8.0 | | |
| 11 | 220.0 | | 53.4 | | | | | |
| 12 | 44.0 | | 89.0 | | | | | |
| 13 | 310.0 | | 71.2 | | | | | |
| 14 | 110.0 | | 89.0 | | | | | |
| 15 | 431.0 | | 71.2 | | | | | |
| 16 | 285.0 | | 53.4 | 8.0 | 17.6 | 17.6 | | |
| 17 | 33.0 | | 17.8 | 22.0 | 32.5 | 32.5 | | |
| 18 | | | 89.0 | | | | | |
| 19 | 176.0 | | 89.0 | | | | | |
| 20 | | | 17.8 | | | | | |
| Tot. Dual | 2527.25 | | 783.2 | 30.0 | 58.1 | 58.1 | | |
| 36 | | 72 | | | | | | 95.3 |
| 16 | 22.0 | | | | | | | |
| 17 | 525.4 | | | | | | 151.2 | |
| Tot. T-71 | 547.4 | 72 | | | | | 151.2 | 95.3 |

## RECAPITULATION OF "PIPE REMOVED" - DUAL

| Size of Pipe | Storm Sewer Req'd. per Table Lin. Ft. | Pipe Removed per Table Lin. Ft. | Pipe Removed Reuse (60% Salvage) Lin. Ft. | Pipe Removed & Disposed of (40% Broken) Lin. Ft. | Storm Sewer Req'd. (new pipe minus salv.) Lin. Ft. | Pipe Removed and Stored Lin. Ft. | Pipe Relaid Lin. Ft. |
|---|---|---|---|---|---|---|---|
| 6" | — | 56 | — | 22 | 0 | 34 | — |
| 12" | 5412 | 2576 | 1546 | 1030 | 3625 | 0 | 1787 |
| 15" | 2739 | 130 | 78 | 52 | 2661 | 0 | 78 |
| 18" | 1646 | — | — | — | 1646 | 0 | — |
| 24" | | | | | 0 | | |
| | | | E-12 | E-12 | I-2 | E-12 | I-6 |

Above classifications used in General Summary

## RECAPITULATION OF "PIPE REMOVED" T-71

| Size of Pipe | St'm. Sewer Req'd Per Table Lin. Ft. | Pipe Removed Per Table Lin. Ft. | Pipe Removed For Reuse 60% Salvage - L.F. | Pipe Remov'd. & Disposed Of - 40% Broken - Lin. Ft. | St'm. Sewer Req'd. (New Pipe - Salvage) Lin. Ft. | Pipe Removed & Stored Lin. Ft. | Pipe Relaid Lin. Ft. |
|---|---|---|---|---|---|---|---|
| 6' | | | | | | | |
| 12" | 198 | 732 | 439 | 293 | | 241 | 198 |
| 15' | 163 | | | | | | |
| 18' | 288 | | | | 288 | | |
| 24" | 26 | 100 | 26 | 40 | | 34 | 26 |