| If do further report and return herewith a form of embrace to be executed by the Contract of said he with form of embrack is herein withold and read a part hereof end movined Enthals. 5 and. And the one said direct. Improvements. And the one said direct. Improvements. And return a said contract to properly carry a 25-year flood. Flow there is part, any the Angelessery star enthals of the part o | POUGHES A A A B LANK | ed | | | | | and Others | In the Matter of the Petition of | ENGINEER'S REPORT | Ditch No |
|--|--|-----------------------------|---------------|--------------------------|-------------------|---|---|--|---|--|
| do further report and return herewith a form of contract to be executed by the Contractor of estal which form of soutest is horse attached and made a part hereof and marked Exhibit. 5 and his Standard Torn ho. 685 with changes according to one and ditch. independent on the contract of a party of said, reads) did from the contract or in part, any or corporate road or intirract, or benefits any of said, reads) did from Ahrn, same. 1. 1602858827 Sits Onlyst's to properly carry s. 25-year flood flow Why, same. (Now was said with was done in made or made) 1. 1602858827 Sits Onlyst's to properly carry s. 25-year flood flow Why, same. (Now was said with a made of the contract of t | | | | | | Minorian manahaman springer proportion of the designation | earchiconnidaean millionnings Assassias | es en la esta de la companya de la c | видовительности и посторований | ementar demonstration of continuous for the continu |
| the further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is her to attached and made a part hereof and marked Exhibit. 5.50. 1. 18. Standard Four No. 185 with changes secondize to present late. 1. Ind (in case said direct). improvement. 2. Independent so in party to properly carry of said, reads) did design. 2. Independent size, cultured to properly carry a 25-year flood flow thru same. (these the was come as a read of those thru same. Respectfully submitted. 2. And was a read of the flow in the same of the was come as a read of the flow of the same. A. D. 19 49 When the way of the flow of the same of the sam | enterviente en | | | y S | • | i er | | | | |
| which forms of east act is her sto attached and made a part hereof and marked Exhibit. 5.21d. it is Standard Rom No. 685 with changes according to present less. and (in one sold ditch. improvement any of said roads) did. design whols on in part, any of enroads read on retiroud, or benefits any of said roads) did. design. size. oillest to properly cearry. 2.25-year flood. Thou khru. same. (the state was was days as to read) Respectfully submitted. Respectfully submitted. | undage eels eels eels van van jaar van gebruik van de vrije vroor je verste je verste je verste je verste je v | D. | | | 19 49 27 th | me this | 2.7 o before | -1 | ibed and | Dated Subsc |
| which forms of contract is hereto attached and made a part hereof and marked Exhibit. 5.212. The is Standard Form No. 685, with changes according to Tressent Lev. """ """ """ """ """ """ """ | ত বাংলাগানের আমার হিছে কর্মান আমার ক্রিয়ান কর্মান ক্রামান কর্মান কর্মান কর্মান কর্মান কর্মান কর্মান কর্মান কর্মান কর্মান কর্মা | | | submitted | $Respectfull_{i}$ | | | | \ | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit. 5.and. 2h. is Standard Norm No. 685 with changes according to present lew. Ind (in case said ditch. improvement drains, either in whole or in part, any or comparate road or rathroad, or benefits any of said roads) did. design. 3 necessary size cultert to properly carry a 25-year flood flow thru same. (Here sains who was done as to read) | Will Print Will State of the Control | | | | | | | | | |
| unich form of contract is hereto attached and made a part hereof and marked Exhibit. 5. and. 2h. 1e. Standard Form No. 685 with changes according to present lew. 2nd (in case said ditch. improvement. drains, either in whole or in part, any or corporate road or railroad, or benefits any of said roads) did design. 2 necessary size oulvert to vroyerly carry a 25-year flood flow thru same. (there size what was done as to read) | pii ili Aliani kantaa ahaa ka ahaa ahaa ahaa ahaa ahaa aha | | | | | | | | | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Brhibit. 5. and the is Standard. Form No. 685 with changes according to present lev. nd (in case said ditch improvement drains, either in whole or in part, any or corporate road or railroad, or benefits any of said roads) did design. necessary size culvert to properly carry a 25-year flood flow thru same. (Here the what was too road) | | | | 3 | | | | | | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit5.and. In is Standard Form Mo. 685 with changes according to present lev. Improvement drains, either in whole or in part, any or corporate road or railroad, or benefits any of said roads) did.desian whole or in part, any necessary size outvert to properly carry a 25-year flood flow thru same. (Here side what was done as to road) | , gyggyrannaniagygyronanon-omeone-og | | | | | | | | | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit. 5. and. the Standard Form No. 685 with changes eccording to present lev. nd (in case said ditchimprovement | | | | | | · · · · · · · · · · · · · · · · · · · | | | | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit. 5. and. in is Standard Form Mo. 685 with changes according to present lew. ind (in case said ditch. improvement drains, either in whole or in part, any or corporate road or railroad, or benefits any of said roads) did design necessary size culvert to properly carry a 25-year flood flow thru same. (Here state what was done as to road) | | | | | | | | | | |
| which form of contract is hereto attached and made a part hereof and marked Exhibit. 5 and is Standard Form No. 685 with changes according to present law. Ind (in case said ditch improxement drains, either in whole or in part, any or corporate read or railroad, or benefits any of said roads) did.design necessary size culvert to properly carry a 25-year flood flow thru same. (Here state what was done as to road) | ENERGY OF THE PERSON NAMED (SAME | | | | | | | | | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit 5 and in some said ditch. improvement drains, either in whole or in part, any or corporate road or railroad, or benefits any of said roads) did design necessary size culvert to properly carry a 25-year flood flow thru same. (Here state what was done as to road) | niii eladimamiyi qoolagasi qoolagasi a | | | | | | | | 1 | |
| do further report and return herewith a form of contract to be executed by the Contractor of said which form of contract is hereto attached and made a part hereof and marked Exhibit 5 and the standard Form No. 685 with changes according to present law. Improvement of corporate read or railroad, or benefits any of said roads) did design | Perso Clark in the | viiru same. | at trood th | | re state what was | | | £ | | |
| I do further report and return herewith a form of contract to be executed by the Contractor of said in the contract is hereto attached and made a part hereof and marked Exhibit. 5. and it is Standard Form No. 685 with changes according to present law. | o and contract of the financial state of the | note or in part, | | said roads) | s any | pad, or | , | rate road | or corpo | public |
| I do further report and return herewith a form of contract to be executed by the Contractor | | xhibit | | nade a part s eccordi | ed and chan | s hereto at To. 685 v | ntract i Form 1 | of condend | iich fa is s | work, whi |
| | THE PROPERTY OF THE PROPERTY O | the Contractor | executed | contract to | a form | ћете | 7 | | | and I |
| The section of the control of the section of the se | *Santaninasteri- | : Thich statement is made a | aid wark nebi | in and about so | DOLLITTOUR CE | nonse hil hi | ALC 111 CAL | | | iccirc. |

| In the Matter of the Petition ofR | • W • Hunt |
|--|--|
| | nerroment. I C Anoka |
| and Others, for a ditch im | provement in the County of Anoka. |
| | |
| State of Minnesota, Designated | l and Numbered as County Ditch No. 27 |
| | |
| To the Board of County Commission | ers |
| | |
| of the County of Anoka. | State of Minnesota: |
| | |
| The undersigned Civil Engineer appoint | ed by your order bearing date the lst. |
| - | |
| | |
| R. W. Hunt and others | · · · · · · · · · · · · · · · · · · · |
| for the improvement, modificat | ion and re-sectioning of |
| for a public drainage ditch. | |
| | |
| | kidi (|
| | |
| would respectfully report that at the time spec | ified in your said order, he made an accurate survey of the |
| line of said proposed drainage ditch | $from\ its\ source\ to\ its\ outlet,\ and\ caused\ stakes$ |
| to be set along said line. numbered progressivel | y down stream at each 100 feet, and caused a plat of said |
| | ing among other things a complete description of the lands |
| | • |
| over which said ditch is surveyed, which plat i | is made a part of this report and attached hereto, marked |
| Exhibit 1. which plan consists of the l | Main, Lateral No. 1, and Sub-laterals |
| No. 1-a and 1-b. | |
| And did make a computation of the number of | of cubic yards of earth to be excavated and removed from |
| | ints such as highways and property lines. |
| 00000 00000 g | |
| Interconnections to the est | imated cost per cubic yard for the removal thereof, and did |
| | |
| | xeavated and removed from the entire length of said ditch |
| Main, Laterai, and Sub-laterals | and an estimate of the total cost of laying out, |
| establishing and constructing of the whole wo | rk, including all preliminary and other expenses connected |
| therewith and with the inspecting and certifying | ng to the work when and as the same is completed. And did |
| cause the same to be prepared in tabular form,: | xdsxxiiringxhexkeptkrofxxx . width at the bottom undxxixtk |
| e t Nexton , at the source, outlet and each xerest | xundrakfookstakrofksvid arbitrary section |
| | his report and hereto attached, marked Exhibit 2-2and2 |
| , , , | |
| | |
| H ^{****} ******************************** | 497 - 800 quad 00 19 - 6000 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 |
| | and manner in which said work shall be done, and (in case |
| | kind of tile to be used, or other material necessary in such |
| | of the same as a part of the total cost of said work, which |
| The second of th | e made a part of this report and hereto attached, marked |
| Exhibit 3 | |
| | |
| en de la companya de La companya de la co | [5] "一一一一点,但如此,但如此,但不是一一一个一样要劝起,我就是这个一点,这样都被把他的一样的。"她看醒了一 |
| | |
| and did specify and tabulate all cleaning of | obstructions of water courses, building of flumes of other |
| the control of the co | V 134 VASIS 1 |
| The state of the s | obstructions of water courses, building of flumes of other for the protection of the ditch, bridges or other additional t 2-b. |

EXHIBIT 2-a OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Tabular statement showing department, width of cut at topass bottom, number of cubic yards to be removed, the estimated cost per cubic yard, the estimated cost of excavation.

| n County | | -Ditch N | Vo2; | <i>*</i> | | | Anok | <u>C</u> | ounty, Minnesota | • |
|--|--|--|---------------------------------------|--|--|---|--|-------------------------------|--|---|
| Line | Cy From Station | To Station Number | Depth of Cut in Feet | Width of Cut in Feet at Bottom | Width of Cut in Feet at Top | Number of Cubic Yards | Estimated Cost Per Cubic Yard | Estimated Cost Per Section | | |
| | | | | | | | | | | |
| Main | 100 +0 128 #0 142+6 152 +7 164+6 County 177 +8 200 +0 | 0 to 14 3 to 14 8 to 16 8 to 14 Eighwa 0 to 20 | 12 +63 52 + 78 54 +68 77 +14 | 4.0 4.0 4.0 4.0 4.0 |) | 5285 4735 4680 3189 7215 163 8219 | | | | |
| | 202 +2 215 +0 227 +6 241 +2 249 +0 257 +5 265 +5 | 3 to 21 0 to 22 1 to 24 2 to 24 0 to 25 0 to 26 | L5 / 00 | 5.0 5.0 5.0 6.0 6.0 6.0 | | 4377 5184 4313 3083 3495 3301 5376 | | | | |
| | 274 +0; 287 +6; 295 +9; 303 +8; County 328 +0; | 2 to 28 3 to 29 3 to 30 5 to 32 Highwa | 37 +63 95 +98 93 +80 27 +25 | 6.0 6.0 6.0 - | tal | 5796 2980 2976 11037 107 3268 88779 | \$0.17 | \$15092.43 | | |
| an an Phon | | | | | Var | | ⊕∪•± / | \$13032**3 | MARINE AND A STATE OF THE STATE | |
| Lat #1 | 0-50 to 13 #7to 18 #40 County | o 18 / to 30 Highwa | 40 +33 vø | 4.0 4.0 4.0 | To the control of the | 3675 1480 3381 70 | ческого и систем при метри по при | | \$: | |
| | 30 / 8 0 | to 61 | /- 74 | 4.0 | | <u>11767</u> 20373 | \$0.17 | \$ 3463.41 | OD-P-0000 PROMABALISMAN | |
| Lat #1-a | 0 / 00 2 / 43 15 / 20 | to 154 | -20 | 4.0 4.0 4.0 | ALTO SIMPLY AND ALTO SIMPLY AN | 693 5738 2518 | Signature and Control of the Control | | | |
| | | | T i fam i i i i | Alberta de la constitución de la | | 8949 | \$0.17 | \$ 1521.33 | | |
| Let #1-b | Count | to 7+ y High to 15 | <i>r</i> ay | 4.0 | | 2495 58 3363 | Observed Charles and down the large difficulty of the | | | |
| | 15 +3 | 2 to 20 | / 74 | 4.0 | And the state of t | 1825 7741 | ליד מאַ | \$ 1315.97 | | |
| | | and the control of th | Total | #11 1i | nes | 125842 | | \$21393.14 | · · · · · · · · · · · · · · · · · · · | |
| Line | Estim | sted ya | rdage | obligación de considera | Spoils | spreading | | | | |
| Main Lat #1 | 88779 2037: | 3 | | | 59 13 | ge <u>x 2/3)</u> 186 582 | 0.03 | | | |
| Lat #1-a Lat #1-b Total all lines | 8949 7743 125843 | | | | 5 | 966 160 894 | 0.03 0.03 0.03 | | The second secon | |
| € | | A COURT AND | | | | | | | | |
| | | METERAL (2004) (Associate and Associate and | | To maditum are provided first man (II) soon of soon of | Mondayermile and CULTURE CULTURE CONTROL CONTR | | で an Printed Paralle Vananous Name Name Name Name Name Name Name Name | _ | | |
| | | 0000 Co. | | of his first property control of the | | | - TT Oil and the State of the S | | NAME OF THE PROPERTY OF THE PR | |

County, Minnesota.

County

EXHIBIT 2-b OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Anoka

Recapitulation of all items of estimated costs and expenses.

_Ditch No. 27

| | | | | | Total |
|-------|--|--|--|--|--------------------------------|
| | Describe Items of Estimated Costs and sho | w Amount of | each | Estimated Cost | Estimated Cost |
| Line | Item | Amount | Wni t | Unit | |
| Main | Ditch construction, Sta 100 \(\nu 00 \) to 340 \(\nu 10 \) | 0.00000 per centre de la constitución de la constit | | | |
| 1.000 | Excavation | 88779 | Cu.yds. | \$0.17 | \$15092.43 |
| • | Spoil bank leveling | 59186 | Ħ | 0.03 | 1775.58 |
| | Clearing & grubbing trees & stumps | 310 | Units | : 12:T | 741.95 |
| | Clearing brush | 23300 | Sq.Ft. | 0.25/ | <i>5</i> 8 . 2 5 |
| | | | | 100 s.f | |
| | Frace removal | 524 | Rods | 0.20 | 104.80 |
| | Farm crossing culvert at Sta 102 +51 | * 6 | was suite | 0.00 | - 1.0 |
| | Remove 36"x18' RGP culvert Lay 36"x18' " " | 18 18 | Feet " | 0.30 | 5.40 |
| | Back-fill on culvert | 10 | Cu.yds. | 0.10 | 7.20 1.00 |
| | County Highway Culvert at Sta 177 447 | 20 | 00.000 | 0.20 | £ • 00 0 |
| | Remove 30"x45' RCP culvert | 45 | Feet | 0.25 | 11.25 |
| | Furnish 48"x68', #12 gage, 70 lbs./ft. | 68 | Ħ | 12.63 | 858.84 |
| | CMP culvert | | | - | - 186 |
| | Furnish 48"x21 connecting band for above | 2 | Units | 37.90 | 75.80 |
| | Lay 48"x68' CIP culvert | 68 | Feet | 0.40 | 27.20 |
| | Back-fill on culvert | 76 | Cm.yds. | 0.10 | 7.60 |
| | Farm crossing culvert at Sta 271 447 or 275 | • | | | a 20 |
| | Remove 36"x12' RCP culvert Furnish 48"x40' RCP culvert | 12 | Feet | 0.30 | 3.60 |
| | Lay 48"x40' RCP culvert | 40 40 | Ħ | 10.81 | 432.40 20.00 |
| | Back-fill on culvert | 45 | Cu.Yds. | 0.10 | 4.50 |
| | County Highway culvert at Sta 327 443 | 73 | | 0.420 | 7.00 |
| | Remove 41x61x341 arched top conc.culvert | 34 | Feet | 2.00 | 68.00 |
| | Furnish 60"x60", #10 gage, 110 1b./ft. | 60 | • | 19.62 | 1177.20 |
| | Furnish 60"x21 connecting band for above | 1 | Unit | 58.86 | 58.86 |
| | Lay 60"x60" CMP culvert | 60 | Feet | 0.50 | 30.00 |
| | Back-fill on culvert | 64 | Cu.Yds. | 0.10 | 6.40 |
| | Farm drive culvert at Sta 329-57 | | | | |
| | Remove 36"x18' RCP culvert | 18 | Feet | 0.30 | 5.40 |
| at #1 | Ditch construction Sta 0-50 to 61 474 | Total | cost of Nai | • | \$20573.66 |
| | Excavation | 20373 | Cu.yds. | 0.17 | 3463.41 |
| | Spoil bank leveling | 13582 | Ħ | 0.03 | 407.46 |
| | Clearing, grubbing trees & stumps | 123 | Units | | 148,10 |
| | Clearing brush | 34525 | Sq.Ft. | 0.25/ | 86,31 |
| | 777 | | | loo s.f. | |
| | Fence removal | 130 | Rods | 0,20 | 26.00 |
| | Private road culvert at Sta 0 +14 Remove 12"x16' CMP culvert | 16 | Feet | 0.10 | 1.60 |
| | Remove 10 x16' CMP culvert | 16 | 11 T 66 P | 0.10 | 1.60 |
| | Furnish 12"x16', #16 gage,10.5 lbs./ft. | 16 | # | 1.84 | 29.44 |
| | CMP culvert Furnish 12"x1' connecting band for above | 1 | 9 | 1.84 | 1.84 |
| 1 | Lay 12"x32" CMP culvert | 32 | # | 0.20 | 6.40 |
| | Back-fill on culvert |)2 5 | Cu.yds. | 0.10 | 0.50 |
| | County Highway culvert at Sta 30 448 | 3 | vueyus. | V • • · · | 0.00 |
| | Remove 36"x20' CMP culvert | 20 | Feet | 0.20 | 4.00 |
| • | Remove 36"x20' RCP culvert | 20 | 11 | 0.30 | 6.00 |
| | Furnish 36"x34" RCP culvert | 34 | 1 | 7.21 | 231.14 |
| | Lay 36"x54' RCP culvert | 34 54 40 | 64 | 0.40 | 21.60 |
| | Back-fill on culvert | 110 | Cu.yds. | 0.10 | 4,00 |
| | Farm crossing at Sta 38 +87 | | | · | |
| • | Remove plank crossing bridge | Total | cost Lat #1 | CONVENIENCE | 2.00 \$4441.40 |
| | • | W 40 5 1 | and the second s | no estados | |
| | | | | | |
| | | | | CIMENTONIA | |
| | en e | | | опшенециямоння | |
| | (over) | | | on control and the second seco | |

EXHIBIT _____OF ENGINEER'S REPORT IN DITCH PROCEEDINGS.

Recapitulation of all items of estimated costs and expenses.

| In_ | County Ditch No. 27 | | Anoka | C01 | unty, Minnesota. |
|---------|--|---------------------|--|-------------------|---------------------|
| | | | | | |
| \$14° | | | | ž H | |
| | Describe Items of Estimated Costs and sho | w Amount of | each | Estimated | Total Estimated |
| | | | | Cost | Cost |
| | | | | # 1 | |
| line | Item | Amount | Unit | Unit | |
| it #1-a | | 2 | | | |
| | Excavation | 8949 | Cu.yds. | \$0.17 | \$ 1521.33 |
| | Spoil bank leveling | 5966 | | 0.03 | 178.98 |
| | Clearing, grubbing trees & stumps | 29 | Units | ~ ~~1 | 72.45 |
| | Clearing brush | 25860 | Sq.Ft. | 0.25/ 100 s.f. | 64.65 |
| | Fence removal | 27 | Rods | 0.20 | 5.40 |
| ^ | Farm crossing at Sta 6 +35 | ~1· | 200120 | | 2.50 |
| | Remove farm crossing culvert | | | 4. | 1.00 |
| | an de miente de management de de la companya de la La companya de la co | Total co | ost Lat #1-a | 5 | \$ 1843.81 |
| | | | i i | 81 8 | * |
| it #1-d | | ٤., | | 183 | i a fe es Mas |
| | Excavation | 7741 | Cu.yds. | 0.17 | 1315.97 |
| | Spoil bank leveling | 5160 | \$\$ | 0.03 | 154.80 |
| | Clearing, grubbing trees & stumps | 115 | Units | | 146.00 |
| | Clearing brush | 54585 | Sq.ft. | 0.25/ 100 s.f. | 136.46 |
| | Fence removal | 50 | Rods | 0.20 | 10.00 |
| | County Highway Culvert at Sta 7495 | 7 0 | more | U•2U | 70.00 |
| | Furnish 30"x56', #14 gage, 31 lbs./ft. | 56 | Feet | 5.45 | 305.20 |
| | CMP culvert | - | | 7-7 | |
| | Furnish 30"x2' connecting band for abo | ve l | Unit | 16.36 | 16.36 |
| | Lay 30"x56' CMP culvert | 56 | Feet | 0.30 | 16.80 |
| ; | Back-fill on culvert | 12 | Gu.yds. | 0.10 | 1.20 |
| | | Total co | ost Lat.#1-b | | \$ 2102.79 |
| - | SUMMATION OF ESTIMATED C By Types of Work - len | et <u>d = 6.5</u> 9 | 5_miles_ | | • |
| | Excavation | 125842 | Gu.yds. | 0.17 | \$ 21393.14 |
| | Spoils bank leveling Clearing.grubbing trees & stumps | 83894 577 | | 0.03 | 2516.82 1108.50 |
| Ŧ | Clearing brush | 138270 | Sg.£t. | 0.25 | 345.67 |
| | Fence removal | 731 | Rods | 0.20 | 146.20 |
| * | Bridge construction | , , , , | And the second | | 3451.33 |
| | | | | | \$28961.66 |
| | SUMMATION OF ESTIMATED | COST BY L | INES | * | |
| | and the state of the | Main | And the second second | | \$20573.66 |
| | | Lat #1 | | | 4441.40 |
| | | Iat ∦1-a | | | 1843.81 |
| | | Lat #1-b | · Land Artis | | 2102.79 |
| | | | All lines | | \$2896166 |
| | FINANCIAL REQUIREMENT FOR ANOKA | _DITCH_#27 | 7_IMPROVEMEN | | |
| | Construction cost as listed above | | | | \$28961.66 |
| | Expenses of Attorney, Auditor, County | Ros rei | en e | | φ ∠U7UI.• 00 |
| | Viewers, Notices, etc. | | | | 1000.00 |
| | Engineer's bond | | | | 50.00 |
| | Extra help with surveys | • | | 1 | 150.00 |
| | Stakes | | | | 35.00 |
| | Anoka County Ditch #27- | Total esti | Lmated cost | | \$30,196.66 |
| | A command of the first of the f | | | | |
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| | | ** | | | m to the second |
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