

SUMMARY OF QUANTITIES

| Pay Item No. | Description Abbreviation | Units | Y031-1F | 1000 | * | Total |
|--------------|--------------------------|--------|---------|--------|---|--------|
| 20100110 | TREE REMOV 6 - 15 | UNIT | | 78 | | 78 |
| 20100210 | TREE REMOV OVER 15 | UNIT | | 100 | | 100 |
| 20200100 | EARTH EXCAVATION | CU YD | | 3,453 | | 3,453 |
| 20800150 | TRENCH BACKFILL | CU YD | | 106 | | 106 |
| 25000920 | SEEDING CL 1A SPL | ACRE | | 1 | | 1 |
| 28000305 | TEMP DITCH CHECKS | FOOT | | 15 | | 15 |
| 28000400 | PERIMETER EROS BAR | FOOT | | 2,813 | | 2,813 |
| 28000500 | INLET & PIPE PROTECT | EACH | | 25 | | 25 |
| 35101400 | AGG BASE CSE B | TON | | 2,927 | | 2,927 |
| 40600200 | BIT MATLS PR CT | TON | | 8 | | 8 |
| 40600300 | AGG PR CT | TON | | 7 | | 7 |
| 40600625 | LEV BIND MM N50 | TON | | 26 | | 26 |
| 40600635 | LEV BIND MM N70 | TON | | 157 | | 157 |
| 40600982 | HMA SURF REM BUTT JT | SQ YD | | 199 | | 199 |
| 40600990 | TEMPORARY RAMP | SQ YD | | 58 | | 58 |
| 40603000 | HMA BC IL-12.5 N50 | TON | | 193 | | 193 |
| 40603085 | HMA BC IL-19.0 N70 | TON | | 1,705 | | 1,705 |
| 40603310 | HMA SC "C" N50 | TON | | 320 | | 320 |
| 40603340 | HMA SC "D" N70 | TON | | 644 | | 644 |
| 40800050 | INCIDENTAL HMA SURF | TON | | 47 | | 47 |
| 42300200 | PCC DRIVEWAY PAVT 6 | SQ YD | | 348 | | 348 |
| 42400100 | PC CONC SIDEWALK 4 | SQ FT | | 89 | | 89 |
| 44000200 | DRIVE PAVEMENT REM | SQ YD | | 54 | | 54 |
| 44000500 | COMB CURB GUTTER REM | FOOT | | 2,854 | | 2,854 |
| 44000600 | SIDEWALK REM | SQ FT | | 192 | | 192 |
| 44300900 | STRIP REF CR CON TR A | FOOT | | 2,786 | | 2,786 |
| 50105220 | PIPE CULVERT REMOV | FOOT | | 154 | | 154 |
| 54200640 | P CUL 1 CS/A CP 15 | FOOT | | 30 | | 30 |
| 54207780 | P CUL 1 CS/A EQ RS 15 | FOOT | | 78 | | 78 |
| 54213660 | PRC FLAR END SEC 15 | EACH | | 2 | | 2 |
| 550A0050 | STORM SEW CLA 1 12 | FOOT | | 170 | | 170 |
| 550A0070 | STORM SEW CLA 1 15 | FOOT | | 484 | | 484 |
| 55100500 | STORM SEWER REM 12 | FOOT | | 159 | | 159 |
| 60236200 | INLETS TA T8G | EACH | | 3 | | 3 |
| 60242400 | INLETS SPL | EACH | | 3 | | 3 |
| 60242600 | INLETS SPL N2 | EACH | | 12 | | 12 |
| 60255500 | MAN ADJUST | EACH | | 12 | | 12 |
| 60266600 | VALVE BOX ADJ | EACH | | 5 | | 5 |
| 60500040 | REMOV MANHOLES | EACH | | 1 | | 1 |
| 60500060 | REMOV INLETS | EACH | | 11 | | 11 |
| 60605000 | COMB CC&G TB6.24 | FOOT | | 3,037 | | 3,037 |
| 67100100 | MOBILIZATION | L SUM | | 1 | | 1 |
| 70103700 | TRAF CONT COMPL | L SUM | | 1 | | 1 |
| 70103815 | TR CONT SURVEILLANCE | CAL DA | | 45 | | 45 |
| 70300610 | TEMP PT PAVT MK L&S | SF | | 31.2 | | 31.2 |
| 70300625 | TEMP PT PVT M LINE 4 | FOOT | | 10,611 | | 10,611 |
| 70300660 | TEMP PT PVT M LINE 24 | FOOT | | 56 | | 56 |

* Non-Participating

BENCHMARKS:
 BM #1 - SET RAILROAD SPIKE IN NORTH FACE OF UTILITY POWER POLE AT THE SOUTHEAST CORNER OF THE INTERSECTION OF RALSTON ROAD & BLUEBONNET DRIVE
 ELEV = 732.58
 BM #2 - WEST BOLT BY THE "0" IN OPEN ON FIRE HYDRANT AT THE SOUTHEAST CORNER OF THE INTERSECTION OF BLUEBONNET DRIVE AND ALTHEA STREET
 ELEV = 732.88
 BM #3 - SET RAILROAD SPIKE IN SOUTH FACE OF UTILITY POWER POLE LOCATED ON THE NORTH SIDE OF RALSTON ROAD, APPROXIMATELY 650' WEST OF THE INTERSECTION OF RALSTON ROAD & BLUEBONNET DRIVE
 ELEV = 734.27

| Pay Item No. | Description Abbreviation | Units | Y031-1F | 1000 | * | Total |
|--------------|--------------------------|-------|---------|--------|---|--------|
| 72000200 | SIGN PANEL T2 | SQ FT | | 33 | | 33 |
| △ 78000100 | THPL PVT MK LTR & SYM | SQ FT | | 292 | | 292 |
| △ 78000200 | THPL PVT MK LINE 4 | FOOT | | 10,826 | | 10,826 |
| △ 78000500 | THPL PVT MK LINE 8 | FOOT | | 2,564 | | 2,564 |
| △ 78000600 | THPL PVT MK LINE 12 | FOOT | | 711 | | 711 |
| △ 78000650 | THPL PVT MK LINE 24 | FOOT | | 128 | | 128 |
| △ 78100100 | RAISED REFL PAVT MKR | EACH | | 132 | | 132 |
| 78300100 | PAVT MARKING REMOVAL | SQ FT | | 3,664 | | 3,664 |
| △ 78300200 | RAISED REF PVT MK REM | EACH | | 17 | | 17 |
| △ 80500200 | SERV INSTALL TY B | EACH | 1 | | | 1 |
| △ 81012600 | CON T 2 PVC | FOOT | | 98 | | 98 |
| △ 81012700 | CON T 2 1/2 PVC | FOOT | | 83 | | 83 |
| △ 81012800 | CON T 3 PVC | FOOT | | 193 | | 193 |
| △ 81012900 | CON T 3 1/2 PVC | FOOT | | 58 | | 58 |
| △ 81013000 | CON T 4 PVC | FOOT | | 38 | | 38 |
| △ 81021580 | CON AUGERED 3 1/2 PVC | FOOT | | 32 | | 32 |
| △ 81400100 | HANDHOLE | EACH | | 6 | | 6 |
| △ 81400300 | DBL HANDHOLE | EACH | | 1 | | 1 |
| △ 81702110 | EC C XLP USE 1C 10 | FOOT | | 475 | | 475 |
| △ 81900200 | TR & BKFL F ELECT WK | FOOT | | 470 | | 470 |
| △ 82103250 | LUM SV HOR MT PC 250W | EACH | | 2 | | 2 |
| △ 85700200 | FAC T4 CAB | EACH | | 1 | | 1 |
| △ 86200200 | UNINTER POWER SUP STD | EACH | | 1 | | 1 |
| △ 87301215 | ELCBL C SIGNAL 14 2C | FOOT | | 667 | | 667 |
| △ 87301225 | ELCBL C SIGNAL 14 3C | FOOT | | 1,403 | | 1,403 |
| △ 87301245 | ELCBL C SIGNAL 14 5C | FOOT | | 2,097 | | 2,097 |
| △ 87301255 | ELCBL C SIGNAL 14 7C | FOOT | | 824 | | 824 |
| △ 87301815 | ELCBL C SERV 6 3C | FOOT | | 47 | | 47 |
| △ 87502240 | TS POST PS 9 | EACH | | 6 | | 6 |
| △ 87702910 | STL COMB MAA&P 36 | EACH | | 2 | | 2 |
| △ 87800100 | CONC FDN TY A | FOOT | | 18 | | 18 |
| △ 87800150 | CONC FDN TY C | FOOT | | 3 | | 3 |
| △ 87800400 | CONC FDN TY E 30D | FOOT | | 60 | | 60 |
| △ 88040070 | SH P LED 1F 3S BM | EACH | | 2 | | 2 |
| △ 88040090 | SH P LED 1F 3S MAM | EACH | | 8 | | 8 |
| △ 88040150 | SH P LED 1F 5S BM | EACH | | 2 | | 2 |
| △ 88040160 | SH P LED 1F 5S MAM | EACH | | 2 | | 2 |
| △ 88102717 | PED SH LED 1F BM CDT | EACH | | 8 | | 8 |
| △ 88200410 | TS BACKPLATE L F PLAS | EACH | | 10 | | 10 |
| △ 88800100 | PED PUSH-BUTTON | EACH | | 4 | | 4 |
| △ 89502500 | REM TEMP TR SIG INST | EACH | | 1 | | 1 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | | 1 | | 1 |
| △ X0320837 | EM VEH PR SY DUAL D U | EACH | | 2 | | 2 |
| △ X0320872 | VIDEO VEH DET SYS | EACH | | 1 | | 1 |
| △ XX003163 | EM VEH PR SY | EACH | | 1 | | 1 |
| △ XX003164 | EM VEH PR SY LI CBL C | FOOT | | 281 | | 281 |
| △ XX005559 | SAN SEWER FOR SERVICE | FOOT | | 15 | | 15 |

△ SPECIALTY ITEMS

BM#4 - RAILROAD SPIKE IN THE WEST FACE OF UTILITY POWER POLE LOCATED ON THE EAST SIDE OF BLUEBONNET DRIVE, APPROXIMATELY 600' NORTH OF THE INTERSECTION OF RALSTON ROAD AND BLUEBONNET DRIVE
 ELEV = 733.27
 BM#5 - EAST BOLT ON FIRE HYDRANT LOCATED ACROSS FROM THE ENTER/EXIT OF RALSTON ELEMENTARY ON THE SOUTH SIDE OF RALSTON ROAD BETWEEN BENTIAN DRIVE & BLUEBONNET DRIVE, APPROXIMATELY 250' EAST OF THE INTERSECTION OF RALSTON ROAD & BLUEBONNET DRIVE
 ELEV = 741.42

RALSTON ROAD
 FUNCTIONAL CLASSIFICATION: COUNTY HIGHWAY 17 - PRINCIPAL ARTERIAL

ADT = 12,427 VPD
 DESIGN SPEED: 45 MPH
 POSTED SPEED: 35 MPH

BLUEBONNET DRIVE
 FUNCTIONAL CLASSIFICATION: LOCAL ROAD

DESIGN SPEED: 30 MPH
 POSTED SPEED: 30 MPH

GENERAL NOTES

Locations of all existing utilities are taken from record information. Contractor shall verify location prior to the start of construction.
 Contractor shall notify the Village of Machesney Park Department of Public Works, the County of Winnebago and the Rock River Water Reclamation District (RRWRD) 48 hours prior to the start of construction.
 Contractor shall notify J.U.L.I.E. (1-800-892-0123) 48 hours prior to the start of any excavation.
 All work shall be performed in accordance with the Standard Specifications, of the Village of Machesney Park Department of Public Works, the Standard Specifications for Sewer and Watermain Construction in Illinois, current edition, the latest requirements of the Rock River Water Reclamation District (RRWRD) and the Standard Specifications for Road and Bridge Construction of the Illinois D.O.T. insofar as each shall apply to the work.

All work shall be guaranteed for one year from the date of acceptance and shall be subject to acceptance by the Owner and the proper authorities.

No sanitary sewer manholes shall be left in a sump condition during construction.

I.D.O.T. trench backfill shall be used where sewers or water mains are under pavements or walks. Mechanical compaction and select trench backfill are required.

The elevations shown herein are based on the Winnebago County GIS (WINGIS) (NAVD 88) Datum Plane.

Contractor shall obtain and pay for all necessary permits for construction.

Contractor shall clean up all excess materials and debris caused as a result of work under this contract.

Contractor shall be responsible for any and all damage resulting from the performance of the work under this contract.

Contractor shall restore all disturbed areas to preconstruction conditions.

Contractor shall dispose of non-suitable material off-site.

Contractor will be required to sign the SWPPP certifying that they understand the terms of the N.P.D.E.S. permit.

Contractor shall adjust and/or reconstruct all Manholes, Inlets & Valve Boxes to match new grades.

Inlet Protection is required at all Inlets.

Contractor shall provide traffic control in accordance with I.D.O.T standards as necessary.

All manholes must be set to final grade and public improvements that affect sanitary sewer shall be completed prior to formal RRWRD acceptance of the sanitary sewer.

The RRWRD shall furnish a full time Inspector for all sanitary sewer work.

Sanitary sewer service stubs shall be laid at a minimum slope of 1.00% and have minimum cover of 6'.

All PVC (SDR35) sanitary sewer mains shall meet the requirements of ASTM D-3034 with joints conforming to ASTM D-3212; all sanitary services (and mains, where required) shall be watermain quality (SDR-26) PVC pipe conforming to ASTM D-2241 with ASTM D-3139 joints. Bedding shall be Class 1A per ASTM D-2321-74 for all PVC pipe.

The cost of making sewer connections to existing drainage structures shall be included in the various contract unit prices for STORM SEWER.

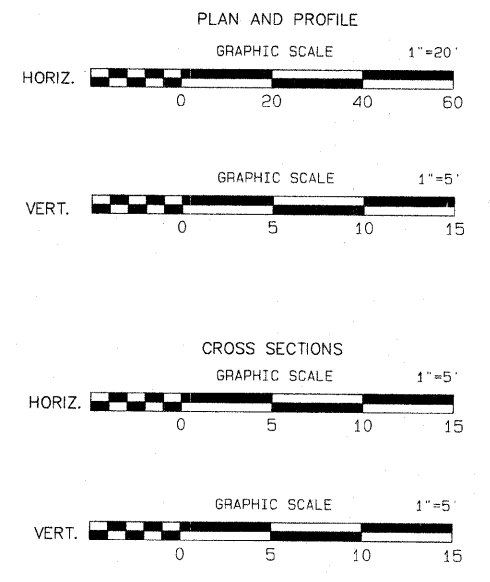
For manholes in need of adjustment, the RRWRD specifies the following:

- 4" minimum, of adjusting rings (not required in turf areas or curb and gutter roadways)
- A maximum of 12' of adjusting rings
- No more than one (1)-two inch (2") adjusting ring per manhole
- A maximum of 30' from the top of casting to the first step
- Adjustment by grouting is not permitted.

If the existing sanitary manholes do not have a Neenah R-1670 or E. Jordan E-1117 casting or if the castings are in poor condition, the RRWRD's Supporting Services Department should be contacted prior to the adjustment for replacement castings. The Contractor is responsible for exchanging the old castings for new ones from the RRWRD, if required. External manhole (chimney) seals will be required - manhole seal installation will be the Contractor's responsibility.

Manhole castings in roadways should be shimmed into alignment with the pavement surface. For pitched castings, a minimum of three shims (plastic or metal) equally spaced to prevent rocking shall be installed between the casting and the masonry. The remaining space between the casting and masonry shall be filled with hydraulic cement.

A RRWRD Inspector should be present for all manhole adjustment work.



| UTILITIES | |
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| COMMONWEALTH EDISON 123 ENERGY AVENUE ROCKFORD, IL 61109 (815) 490-2869 | NORTH PARK PUBLIC WATER DISTRICT 1350 TURRET DRIVE MACHESNEY PARK, IL 61115 (815) 633-5461 |
| MCCLOUD USA 900 COMMERCE DRIVE SUITE 203 OAKBROOK, IL 60523 (630) 570-5174 | ROCK RIVER WATER RECLAMATION DISTRICT 3333 KISHWAUKEE STREET P.O. BOX 7480 ROCKFORD, IL 61126 (815) 367-7660 |
| COMCAST 4450 KISHWAUKEE STREET ROCKFORD, IL 61109 (815) 395-8977 | NICOR GAS 300 WEST TERRA COTTA CRYSTAL LAKE, IL 60014 (815) 465-0271 |
| SBC 301 EAST MILWAUKEE STREET JANESVILLE, WI 53545 (608) 755-5591 | |

RALSTON ROAD

STRUCTURAL DESIGN TRAFFIC: Year 2019
 PV = 16,541 SU = 1,316 MU = 940
 ROAD/STREET CLASSIFICATION: Class II
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 100 S = 100 M = 100
 TRAFFIC FACTOR: Actual TF = 5.12 AC Type = 10
 Minimum TF = 5.12
 PG GRADE: Binder = Top Lift PG 64-22, Lower Lifts PG 58-22
 Surface = PG 64-22
 Subgrade Support Rating:
 SSR = Poor (Sta. 1+00 to 16+14.02)

SUMMARY OF QUANTITIES & GENERAL NOTES

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| <p>Arnold Lundgren & Associates Professional Engineers and Land Surveyors Illinois Design Firm No. 154-003889 803 N. Church Street • Rockford, IL 61103 (815) 956-8881 • Fax (815) 952-6409</p> | DATE | 05/17/06 | REVISIONS |
| | BY | VRL | 3-5-06 REVISED PER WINNEBAGO COUNTY HIGHWAY DEPT. COMMENTS |
| | APPROVED | RFA | 4-22-06 REVISED PER WINNEBAGO COUNTY HIGHWAY DEPT. COMMENTS |
| | ORDER NO. | 22475 | 10-15-06 REVISED PER DOT COMMENTS |