

TABLETION OF QUOTATIONS  
ROBOTIC TOTAL STATION WITH GPS SURVEY EQUIPMENT

| Transit Works<br>Lincoln, Nebraska 68516  |  |              | Transit Works<br>Lincoln, Nebraska 68516 |  |              | Iowa Transit<br>Grimes, Iowa 50111  |  |              |
|---|--|--------------|--|--|--------------|---|--|--------------|
| Quantity  | Description  | Price        | Quantity                                 | Description  | Price        | Quantity  | Description  | Price        |
| 1   | Topcon DS-205 AC Robotic Total Station (2 Year Warranty) (DEMO)  | \$ 15,490.00 | 1  | Sokkia DX-205 AC Robotic Total Station (2 Year Warranty)   | \$ 15,490.00 | 1   | Topcon DS-205 Robotic/Hybrid Package                         | \$ 23,302.65 |
| 1   | DX/DS-100/200 AC Upgrade Kit                                     | \$ 1,400.00  | 1  | DX Robotic Accessory Kit w/AC Upgrade, 360 Prism & Pole  | \$ 2,660.00  | 1   | Topcon Tesla Standard w/Pole Bracket                         | \$ 2,627.08  |
| 1   | Prism, 360 ATP1 Prism  | \$ 1,428.00  | 1  | Sokkia GRX2 Rover GD Digital UHFII 440-470   | \$ 12,640.00 | 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software) | \$ 2,500.00  |
| 1   | Rover Pole, 8' Alum  | \$ 180.00    | 1  | OAF, Upgrade GRX2 L1 + L2 Glonass  | \$ 1,000.00  | 1   | Onsite Training 4 Hours                                      | \$ 500.00    |
| 1   | Topcon HiPer SR Network Rover GGD 10 HZ (DEMO)                   | \$ 8,400.00  | 1  | Panasonic Tough Pad 7" Display BT-WLAN LTE   | \$ 2,949.00  | 1   | Option 1 Total   | \$ 28,929.73 |
| 1   | OAF, HiPer SR, Net Only RTK GGD 10 HZ                            | \$ 2,500.00  | 1  | Cradle, Toughpad w/Pole Clamp  | \$ 74.00     | 1   | This system has a smaller screen.                            |              |
| 1   | Panasonic Tough Pad 7" Display BT-WLAN LTE                       | \$ 2,949.00  | 1  | Adaptor, AT-P1 Hybrid Positioning  | \$ 73.15     | 1   | Topcon DS-205 Robotic/Hybrid Package                         | \$ 23,302.65 |
| 1   | Cradle, Toughpad w/Pole Clamp                                    | \$ 74.00     | 1  | Magnet Field + Robotic + GPS + Hybrid Positioning (Software)   | \$ 2,500.00  | 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software) | \$ 2,500.00  |
| 1   | Adaptor, AT-P1 Hybrid Positioning                                | \$ 73.15     | 1  | One Day Training   | \$ 500.00    | 1   | Topcon Tesla Geo w/Pole Bracket                              | \$ 3,038.82  |
| 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software)     | \$ 2,500.00  |  | Total  | \$ 37,886.15 | 1   | Onsite Training 4 Hours                                      | \$ 500.00    |
| 1   | One Day Training   | \$ 500.00    |  | Discount   | \$ 8,906.15  | 1   | Option 2 Total   | \$ 29,341.47 |
|   | Total  | \$ 35,494.15 |  | Transit Works Price  | \$ 28,980.00 | 1   | This system has a smaller screen.                            |              |
|   | Discount   | \$ 10,514.15 |  | <b>OPTIONAL:</b>   |              | 1   | Topcon DS-205 Robotic/Hybrid Package                         | \$ 23,302.65 |
|   | Transit Works Price  | \$ 24,980.00 | 1  | Battery, BDC70 Li-Ion 7.2V 5.2 Ah Additional   | \$ 300.00    | 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software) | \$ 2,500.00  |
| 1   | <b>OPTIONAL:</b><br>Battery, BDC70 Li-Ion 7.2V 5.2 Ah Additional | \$ 300.00    | 1  | Panasonic Toughpad 7" Display BT-WLAN 4G LTE   | \$ 2,949.00  | 1   | Topcon FC-500 Standard w/Pole Bracket                        | \$ 1,502.94  |
| 1   | Panasonic Toughpad 7" Display BT-WLAN 4G LTE                     | \$ 2,949.00  | 1  | Cradle, Toughpad w/Pole Clamp  | \$ 74.00     | 1   | Onsite Training 4 Hours                                      | \$ 500.00    |
| 1   | Cradle, Toughpad w/Pole Clamp                                    | \$ 74.00     | 1  | Magnet Field + Robotic + GPS + Hybrid  | \$ 2,500.00  | 1   | Option 3 Total   | \$ 27,805.59 |
| 1   | Magnet Field + Robotic + GPS + Hybrid                            | \$ 2,500.00  |  | Total  | \$ 5,823.00  | 1   | System controller is not table style.                        |              |
|   | Total  | \$ 5,823.00  |  | Discount   | \$ 827.00    | 1   | Topcon DS-205 Robotic/Hybrid Package                         | \$ 23,302.65 |
|   | Discount   | \$ 827.00    |  | <b>Total Additional Controller</b>   | \$ 4,996.00  | 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software) | \$ 2,500.00  |
|   | <b>Total Additional Controller</b>                               | \$ 4,996.00  |  | This system provides the same functionality with additional cost and added weight: GPS receiver weighs 2.20lbs |              | 1   | Topcon FC-500 GEO w/Pole Bracket                             | \$ 1,787.06  |
| <p>This system allows us to survey two locations by utilizing the optional second controller. The total system is light-weight: GPS receiver weighs 1.87lbs, Controller weighs 1.19lbs which reduces fatigue and risk of falls. This is a demo model with significant savings over new while maintaining a full warranty. We chose a tablet style collector for increased productivity through a wider view of survey area.</p> |  |              |  |  |              | 1   | Onsite Training 4 Hours                                      | \$ 500.00    |
|   |  |              |  |  |              | 1   | Option 4 Total   | \$ 28,089.71 |
|   |  |              |  |  |              | 1   | System controller is not table style.                        |              |
|   |  |              |  |  |              | 1   | Topcon DS-205 Robotic/Hybrid Package                         | \$ 23,302.65 |
|   |  |              |  |  |              | 1   | Magnet Field + Robotic + GPS + Hybrid Positioning (Software) | \$ 2,500.00  |
|   |  |              |  |  |              | 1   | Panasonic Toughpad 7" w/Pole Bracket                         | \$ 3,118.00  |
|   |  |              |  |  |              | 1   | Onsite Training 4 Hours                                      | \$ 500.00    |
|   |  |              |  |  |              | 1   | Option 5 Total   | \$ 29,420.65 |
|   |  |              |  |  |              | <p>This system is nearly identical to the chosen system but is more costly. GPS receiver weighs 1.87lbs, Controller weighs 1.19lbs.</p> |  |              |

9-2/133

**TABULATION OF QUOTES**  
**ROBOTIC TOTAL STATION WITH GPS SURVEY EQUIPMENT**

| Carlson<br>Bellevue, Iowa  |  |                     | A & D Technical Supply<br>Omaha, Nebraska 68127 |   |                     | A & D Technical Supply<br>Omaha, Nebraska 68127  |   |                     |
|--|--|---------------------|---|---|---------------------|--|---|---------------------|
| Quantity   | Description  | Price               | Quantity  | Description   | Price               | Quantity   | Description   | Price               |
| 1  | Robotic 5" Carlson CR5 w/ZRT81 BT Handle Package       | \$ 15,500.00        | 1   | TCRP+ R400  | \$ 16,850.00        | 1  | TCRP+ R400  | \$ 16,850.00        |
| 1  | Carlson Robot Accessory Kit Supervisor Cradle          | \$ 1,275.00         | 2   | GEB221 Battery  | \$ 360.00           | 2  | GEB221 Battery  | \$ 360.00           |
| 1  | ZBA400, Li-ion Battery 4.4 Ah, rechargeable            | \$ 160.00           | 2   | GKL211 Charger  | \$ 220.00           | 2  | GKL211 Charger  | \$ 220.00           |
| 1  | CTW100 Wooden Tripod                                   | \$ 160.00           | 1   | MCF256 256Mb Card   | \$ 200.00           | 1  | MCF256 256Mb Card   | \$ 200.00           |
| 1  | SurvPC Super "G" L1/L2 Supervisor + GPS Tablet Package | \$ 12,995.00        | 1   | 1RH16 Radio Handle  | \$ 1,650.00         | 1  | 1RH16 Radio Handle  | \$ 1,650.00         |
| 1  | SurvPC Robotic 4.xx                                    | \$ 400.00           | 1   | GDF 121 Tribrach  | \$ 385.00           | 1  | GDF 121 Tribrach  | \$ 385.00           |
| 1  | On Site, Custom Training per day Plus Expenses         | \$ 1,750.00         | 1   | GRZ4 360 Prism  | \$ 990.00           | 1  | GRZ4 360 Prism  | \$ 990.00           |
| 1  | Shipping   | \$ 50.00            | 1   | GS14 3.75 G& UHF TX/RX Pro GNSS Smart Antenna. Geodetic 120 Channel GNSS receiver with integrated 2G GSM and UHF radio RTK Modems.                            | \$ 11,140.00        | 1  | GS14 3.75 G& UHF TX/RX Pro GNSS Smart Antenna. Geodetic 120 Channel GNSS receiver with integrated 2G GSM and UHF radio RTK Modems.  | \$ 11,140.00        |
| <b>Total</b>   |  | <b>\$ 32,290.00</b> | 2   | GEB211 Lithium-ion Battery  | \$ 260.00           | 2  | GEB211 Lithium-ion Battery  | \$ 260.00           |
| System similar to chosen but is more costly. Controller weighs 2.42lbs                   |  |                     | 2   | GKL211 Charger  | \$ 220.00           | 2  | GKL211 Charger  | \$ 220.00           |
| 1  | Robotic 5" Carlson CR5 w/ZRT81 BT Handle Package       | \$ 15,500.00        | 1   | CS15 3.5G Field Controller, Ruggedized WinCE field controller with Full VGA touch display, 1GB NAND Flash Memory 512 MB SDRAM CF/SD card slot and 2 MP Camera | \$ 4,450.00         | 1  | Leica CS25 Plus Long Range Blue Tooth. Ruggedized Win7 Tablet Computer including 7" touch screen, 64 GB SSD hard Drive, 2 GB SDRN WLAN 802.11 b/g/n, integrated TS/CDMA module, Long Range Blue Tooth v2.0, stylus, Integrated MediaTek GPS, and 2 MP camera with Flash | \$ 5,500.00         |
| 1  | Carlson Robot Accessory Kit Surveyor2 Cradle           | \$ 1,275.00         | 1   | 1SPF01 Anti-Glare display Foils   | \$ 30.00            | 1  | GHT72 Pole Holder   | \$ 500.00           |
| 1  | ZBA400, Li-ion Battery 4.4 Ah, rechargeable            | \$ 160.00           | 1   | SmartWorx Viva Software and DVD   | \$ 50.00            | 1  | GVP713 carrier bag for CS25 GNSS  | \$ 45.00            |
| 1  | CTW100 Wooden Tripod                                   | \$ 160.00           | 1   | SmartWorx Viva Software License Key   | \$ 700.00           | 1  | MicroSurvey Field Genius Premium Bundle   | \$ 2,195.00         |
| 1  | BRx5 Rover Only  | \$ 7,200.00         | 1   | GKL211 Charger  | \$ 110.00           | <b>Total</b>   |   | <b>\$ 40,515.00</b> |
| 1  | Surveyor2 GEO/Camera (8010.804.029) w/ SurvCE Basic    | \$ 3,300.00         | 2   | GEB212, Lithium Ion Battery   | \$ 260.00           | <b>Discount</b>  |   | <b>\$ 5,297.35</b>  |
| 1  | SurvCE Robotic 4.xx                                    | \$ 400.00           | 1   | GTH62, GTH63 base plate and Clamp   | \$ 160.00           | <b>Total</b>   |   | <b>\$ 35,217.65</b> |
| 1  | SurvCE GPS 4.xx  | \$ 800.00           | 1   | Reference Line, DTM Stake Out   | \$ 500.00           | System is comparable but more costly. GPS receiver weighs 2.05lbs. Controller weighs 2.9lbs.         |   |                     |
| 1  | On Site, Custom Training per day Plus Expenses         | \$ 1,750.00         | 1   | GTR16 Comm Cap for CS15, GVP660 TPS Robotic Container   | \$ 1,200.00         |  |   |                     |
| 1  | Shipping   | \$ 50.00            | <b>Total</b>                                    |   | <b>\$ 39,735.00</b> |  |   |                     |
| <b>Total</b>   |  | <b>\$ 30,595.00</b> | <b>Discount</b>                                 |   | <b>\$ 6,004.35</b>  |  |   |                     |
| System controller is not table style. GPS receiver weighs 1.87lbs Controller weighs 2lbs |  |                     | <b>Total</b>                                    |   | <b>\$ 33,730.65</b> | System controller is not desired table style. GPS receiver weighs 2.05lbs. Controller weighs 1.57lbs |   |                     |