

RESOLUTION NO. 2836

A RESOLUTION OF THE CITY OF WILSONVILLE AUTHORIZING THE CITY MANAGER TO EXECUTE A CONSTRUCTION CONTRACT WITH NORTHSTAR ELECTRICAL CONTRACTORS, INC. TO CONSTRUCT CIP 4722 - LED STREET LIGHT CONVERSION – PHASE 1 PROJECT.

WHEREAS, the City owns and is responsible for the overall street lighting network; and
WHEREAS, the City of Wilsonville (City) wishes to improve the overall street lighting system to be more energy efficient LED lighting; and

WHEREAS, the City issued a formal bid for this project.

NOW, THEREFORE, THE CITY OF WILSONVILLE RESOLVES AS FOLLOWS:

- Section 1. The procurement process for the Project duly followed Oregon Contracting Rules, and Northstar Electrical Contractors, Inc. was determined to be the lowest responsive bidder
- Section 2. The City of Wilsonville, acting as the Local Contract Review Board, authorizes the City Manager to enter into and execute, on behalf of the City of Wilsonville, a construction contract with Northstar Electrical Contractors for a not-to-exceed amount of \$478,500.00.
- Section 3. This resolution is effective upon adoption.

ADOPTED by the Wilsonville City Council at a regular meeting there of this 21st day of September 2020, and filed with the Wilsonville City Recorder this date.

DocuSigned by:

C2B6698B3949461...

TIM KNAPP, MAYOR

ATTEST:

DocuSigned by:
Kimberly Veliz
E781DE10276B498...

Kimberly Veliz, City Recorder

SUMMARY OF VOTES:

Mayor Knapp	Yes
Council President Akervall	Yes
Councilor Lehan	Excused
Councilor West	Yes
Councilor Linville	Yes

EXHIBIT:

- A. Street Lighting LED Conversion Construction Contract with Northstar Electrical Contractors, Inc.
- B. Street Lighting LED Conversion Phase 1 Plans

**CITY OF WILSONVILLE
CONSTRUCTION CONTRACT (CIP #4722)**

This Construction Contract (“Contract”) for the Street Lighting LED Conversions Phase 1 Project (“Project”) is made and entered into on this ____ day of September 2020 (“Effective Date”) by and between the **City of Wilsonville**, a municipal corporation of the State of Oregon (hereinafter referred to as the “City”), and **Northstar Electrical Contractors Inc.**, an Oregon corporation (hereinafter referred to as “Contractor”).

RECITALS

WHEREAS, the City issued a formal Invitation to Bid for the Project described herein; and

WHEREAS, Contractor represents that Contractor is qualified to perform the services described in the Invitation to Bid on the basis of specialized experience and technical expertise; and

WHEREAS, after reviewing all bids submitted in accordance with the Invitation to Bid, the City has determined this Contract shall be awarded to Contractor; and

WHEREAS, Contractor is prepared to perform this Contract in accordance with all the terms and conditions as set forth below, as the City does hereinafter require.

NOW, THEREFORE, in consideration of these mutual promises and the terms and conditions set forth herein, the parties agree as follows:

AGREEMENT

Section 1. Contract Documents

This Contract includes and incorporates by reference all of the foregoing Recitals and all of the following additional “Contract Documents”: Specifications and Contract Documents for Street Lighting LED Conversions Phase 1 Project, dated September 2, 2020, including Plans and Details bound separately; Contractor’s Bid submitted in response thereto; 2017 City of Wilsonville Public Works Standards; City of Wilsonville Special Provisions; Project Specific Special Provisions; Oregon Department of Transportation 2018 Oregon Standard Specifications for Construction; and the provisions of Oregon Revised Statutes (ORS) 279C, as more particularly set forth in this Contract. Contractor must be familiar with all of the foregoing and comply with them. Any conflict or inconsistency between the Contract Documents shall be called to the attention of the City by Contractor before proceeding with affected work. All Contract Documents should be read in concert and Contractor is required to bring any perceived inconsistencies to the attention of the City before executing this Contract. In the event a provision of this Contract conflicts with standards or requirements contained in any of the foregoing Contract Documents, the provision that is more favorable to the City, as determined by the City, will apply.

Section 2. Term

The term of this Contract shall be from the Effective Date until all work required to be performed hereunder (“Work”) is completed and accepted, or no later than December 31, 2020, whichever occurs first, unless earlier terminated in accordance herewith or an extension of time is agreed to, in writing, by the City (“Final Completion”). See **Section 23** for the definition of Final Completion. Contractor shall diligently perform the Work according to the requirements and deliverable dates identified in the Contract Documents.

Section 3. Contractor’s Work

3.1. Contractor will perform the Work as more particularly described herein and in the other Contract Documents for the Project.

3.2. All written documents, drawings, and plans submitted by Contractor in conjunction with the Work shall bear the signature, stamp, or initials of Contractor’s authorized Project Manager. Any documents submitted by Contractor that do not bear the signature, stamp, or initials of Contractor’s authorized Project Manager, will not be relied upon by the City. Interpretation of plans and answers to questions regarding the Work given by Contractor’s Project Manager may be verbal or in writing, and may be relied upon by the City, whether given verbally or in writing. If requested by the City to be in writing, Contractor’s Project Manager will provide such written documentation.

3.3. The existence of this Contract between the City and Contractor shall not be construed as the City’s promise or assurance that Contractor will be retained for future services beyond the Work described herein.

3.4. Contractor shall maintain the confidentiality of any confidential information that is exempt from disclosure under state or federal law to which Contractor may have access by reason of this Contract. Contractor warrants that Contractor’s employees assigned to perform any of the Work provided in this Contract shall be clearly instructed to maintain this confidentiality. All agreements with respect to confidentiality shall survive the termination or expiration of this Contract.

Section 4. Contract Sum, Retainage, and Payment

4.1. Except as otherwise set forth in this **Section 4**, the City agrees to pay Contractor on a time and materials basis, guaranteed not to exceed FOUR HUNDRED SEVENTY-EIGHT THOUSAND FIVE HUNDRED DOLLARS (\$478,500), for performance of the Work (“Contract Sum”). Any compensation in excess of the Contract Sum will require an express written Change Order between the City and Contractor. Contractor’s unit pricing is set forth in **Exhibit A**, attached hereto and incorporated by reference herein.

4.2. During the course of Contractor’s performance, if the City, through its Project Manager, specifically requests Contractor to provide additional services beyond the Work described in the Contract Documents, Contractor shall provide such additional services and bill the City a reasonable agreed upon fee, pursuant to a written Change Order, executed in compliance with the provisions of **Section 24**.

4.3. Contractor will be paid for Work for which an itemized invoice is received by the City within thirty (30) days of receipt, unless the City disputes such invoice, less a five percent (5%) withholding for retainage. Retainage shall be as outlined in the Contract Documents and as specified under ORS 279C.550 to 279C.570. If the City disputes an invoice, the undisputed portion of the invoice will be paid by the City within the above timeframe, less the retainage. The City will set forth its reasons for the disputed claim amount and make good faith efforts to resolve the invoice dispute with Contractor as promptly as is reasonably possible. Final payment will be held until completion of the final walkthrough, as described in **Section 23**.

4.4. Except as provided in **Section 8.2**, the Contract Sum includes the cost of all required fees payable to governmental agencies, including but not limited to plan checking, land use, zoning, permitting, and all other similar fees required to perform the Work on the Project.

4.5. The City will be responsible for the direct payment of required fees payable to governmental agencies, including but not limited to plan checking, land use, zoning, permitting, and all other similar fees resulting from this Project that are not specifically otherwise provided for in the Contract Documents.

4.6. Contractor's unit prices and Contract Sum are all inclusive and include, but are not limited to, all work-related costs, expenses, salaries or wages, plus fringe benefits and contributions, including payroll taxes, workers compensation insurance, liability insurance, profit, pension benefits, and all other contributions and benefits, office expenses, travel expenses, mileage, and all other indirect and overhead charges.

4.7. Contract provisions regarding payment policies, progress payments, interest, etc. are as outlined in the Contract Documents and in ORS 279C.570.

Section 5. Prevailing Wages

This is a Contract for a Public Works Project, subject to ORS 279C.800 to 279C.870. Therefore, not less than the current applicable state prevailing wage must be paid on this Project. Wage rates for this project are those published by the Bureau of Labor and Industries (BOLI), effective January 1, 2020, and all subsequent amendments. The BOLI prevailing wage rate for public works contracts can be found at the following website: http://www.oregon.gov/boli/WHD/PWR/Pages/pwr_state.aspx. Because this is a public works contract subject to payment of prevailing wages, each worker in each trade or occupation employed in the performance of the Work, either by Contractor, a subcontractor, or other person doing or contracting to do, or contracting for the whole or any part of the Work, must be paid not less than the applicable state prevailing wage for an hour's work in the same trade or occupation in the locality where such labor is performed, in accordance with ORS 279C.838 and 279C.840, if applicable. Contractor must comply with all public contracting wages required by law. Contractor and any subcontractor, or their sureties, shall file a certificate of rate of wage as required by ORS 279C.845. If the City determines at any time that the prevailing rate of wages has not been or is not being paid as required herein, it may retain from the moneys due to Contractor an amount sufficient to make up the difference between the wages actually paid and the prevailing rate of wages, and may also cancel the Contract for breach. Contractor shall be liable to the workers affected for failure to pay the required rate of wage, including all fringe benefits under ORS 279C.840(5). Contractor must include a contract provision in compliance

with this paragraph in every subcontract and shall require each subcontractor to include it in subcontract(s).

See **Contractor's Responsibilities** below and other Contract Documents for additional requirements and responsibilities regarding compliance with wage and hour laws and regulations.

Section 6. Filing of Certified Statement

As required in ORS 279C.845(7), the City will retain twenty-five percent (25%) of any amount earned by Contractor under the Contract until Contractor has filed the certified statements required in ORS 279C.845(1). The City will pay to Contractor the amount withheld within fourteen (14) days after Contractor files the required certified statements. As required in ORS 279C.845(8), Contractor shall retain twenty-five percent (25%) of any amount earned by a first-tier subcontractor on the Project until the first-tier subcontractor has filed with the City the certified statements required in ORS 279C.845(1). Before paying any amount withheld, Contractor shall verify that the first-tier subcontractor has filed the certified statement. Within fourteen (14) days after the first-tier subcontractor files the required certified statement, Contractor shall pay the first-tier subcontractor any amount withheld. Contractor shall require all other sub-subcontractors to file certified statements regarding payment of prevailing wage rates with the City.

Section 7. Reports to Department of Revenue

When a public contract is awarded to a nonresident bidder and the contract sum exceeds Ten Thousand Dollars (\$10,000), Contractor shall promptly report to the Department of Revenue, on forms to be provided by the Department, the total contract sum, terms of payment, length of contract, and such other information as the Department may require, before the City will make final payment on the Contract.

Section 8. City's Rights and Responsibilities

8.1. The City will designate a Project Manager to facilitate day-to-day communication between Contractor and the City, including timely receipt and processing of invoices, requests for information, and general coordination of City staff to support the Project.

8.2. If applicable, the City will pay the required Bureau of Labor and Industries fee of one-tenth of one percent (0.1%) of the Contract Sum, or as required by statute.

8.3. The City reserves the right to reject any bid or to refuse delivery of materials or services at or from any manufacturer, supplier, or contractor with which the City has reasonable grounds to believe is or may be operating in violation of any local, state, or federal law or which is the subject of pending litigation.

8.4. If Contractor fails, neglects, or refuses to make prompt payment of any claim for labor or services furnished to Contractor or a subcontractor by any person in connection with the Contract as such claim becomes due, the City may, but shall not be obligated to, pay such claim to the person furnishing the labor or services and charge the amount of the payment against funds due or to become due Contractor by reason of the Contract. The payment of a claim in the manner

authorized hereby shall not relieve Contractor or its surety from the obligation with respect to any unpaid claim. If the City is unable to determine the validity of any claim for labor or services furnished, the City may withhold from any current payment due Contractor an amount equal to said claim until its validity is determined, and the claim, if valid, is paid by Contractor or the City. There shall be no final acceptance of the Work under the Contract until all such claims have been resolved.

8.5. Award of this Contract is subject to budget appropriation. Funds are approved for Fiscal Year 2019-20. If not completed within this fiscal year, funds may not be appropriated for the next fiscal year. The City also reserves the right to terminate this Contract early, as described in Section 21.

Section 9. City's Project Manager

The City's Project Manager is Martin Montalvo. The City shall give Contractor prompt written notice of any re-designation of its Project Manager.

Section 10. Contractor's Project Manager

Contractor's Project Manager is Jesse Culp. In the event that Contractor's Project Manager is changed, Contractor shall give the City prompt written notification of such re-designation. Recognizing the need for consistency and knowledge in the administration of the Project, Contractor's Project Manager will not be changed without the written consent of the City, which consent shall not be unreasonably withheld. In the event the City receives any communication from Contractor that is not from Contractor's Project Manager, the City may request verification by Contractor's Project Manager, which verification must be promptly furnished.

Section 11. Project Information

Except for confidential information designated by the City as information not to be shared, Contractor agrees to share Project information with, and to fully cooperate with, those corporations, firms, contractors, public utilities, governmental entities, and persons involved in the Project. No information, news, or press releases related to the Project, whether made to representatives of newspapers, magazines, or television and radio stations, shall be made without the written authorization of the City's Project Manager.

Section 12. Duty to Inform

If at any time during the performance of this Contract, Contractor becomes aware of actual or potential problems, faults, environmental concerns, or defects in the Project, Contract Documents, or Work, or any portion thereof; or of any nonconformance with federal, state, or local laws, rules, or regulations; or if Contractor has any objection to any decision or order made by the City with respect to such laws, rules, or regulations, Contractor shall give prompt written notice thereof to the City's Project Manager. Any delay or failure on the part of the City to provide a written response to Contractor shall neither constitute agreement with nor acquiescence to Contractor's statement or claim, nor constitute a waiver of any of the City's rights.

Section 13. Subcontractors and Assignments

13.1. Unless expressly authorized in writing by the City, pursuant to **Subsection 14.3**, Contractor shall not subcontract with others for any of the Work prescribed herein. Contractor shall not assign any of Contractor's rights acquired hereunder without obtaining prior written approval from the City. Some Work may be performed by persons other than Contractor, provided Contractor advises the City of the names of such subcontractors and the services which they intend to provide, and the City specifically agrees, in writing, to such subcontracting. Contractor acknowledges such services will be provided to the City pursuant to a subcontract(s) between Contractor and subcontractor(s) and no privity of contract exists between the City and the subcontractor(s). Unless otherwise specifically provided by this Contract, the City incurs no liability to third persons for payment of any compensation provided herein to Contractor. Any attempted assignment of this Contract without the written consent of the City shall be void. Except as otherwise specifically agreed, all costs for services performed by others on behalf of Contractor shall not be subject to additional reimbursement by the City.

13.2. The City shall have the right to enter into other agreements for the Project, to be coordinated with this Contract. Contractor shall cooperate with the City and other firms, engineers, or subcontractors on the Project so that all portions of the Project may be completed in the least possible time and within normal working hours. Contractor shall furnish other engineers, subcontractors, and affected public utilities, whose designs are fitted into Contractor's design, detail drawings giving full information so that conflicts can be avoided.

Section 14. Contractor's Responsibilities

This Contract is a public works contract governed by the laws found at ORS Chapter 279C, which Contractor must be familiar with and adhere to. Those required provisions include but are not limited to all of the following:

14.1. Except as otherwise provided under ORS 30.265, the performance under this Contract is at Contractor's sole risk. All damages or loss to Work, equipment, or materials incurred during the performance of the Work shall be at Contractor's sole risk. Any injury to persons or property incurred during the performance of the Work shall be at Contractor's sole risk. The service or services to be rendered under the Contract are those of an independent contractor who is not an officer, employee, or agent of the City, as those terms are used in ORS 30.265. Notwithstanding the Oregon Tort Claims Act or provisions of any other contract, Contractor is acting as and assumes liability of an independent contractor as to claims between the City and Contractor. Contractor is solely liable for any workers compensation coverage, social security, unemployment insurance or retirement payments, and federal or state taxes due as a result of payments under the Contract. Any subcontractor hired by Contractor shall be similarly responsible. Contractor shall be liable to the City for any failure of any subcontractor(s) to comply with the terms of the Contract.

14.2. Contractor is an independent contractor for all purposes and shall be entitled to no compensation other than the Contract Sum provided for under **Section 4** of this Contract. Contractor will be solely responsible for determining the manner and means of accomplishing the end result of Contractor's Work. The City does not have the right to control or interfere with the manner or method of accomplishing said Work. The City, however, will have the right to

specify and control the results of Contractor's Work so such Work meets the requirements of the Project.

14.3. The City understands and agrees that Contractor may request that some Work be performed on the Project by persons or firms other than Contractor, through a subcontract with Contractor. Contractor acknowledges that if such Work is provided to the City pursuant to a subcontract(s) between Contractor and those who provide such services, Contractor may not utilize any subcontractor(s), or in any way assign its responsibility under this Contract, without first obtaining the express written consent of the City. In all cases, processing and payment of billings from subcontractors is solely the responsibility of Contractor. References to "subcontractor" in this Contract mean a subcontractor at any tier.

14.4. Contractor shall be responsible for, and defend, indemnify, and hold the City harmless against, any liability, cost, or damage arising out of Contractor's use of such subcontractor(s) and subcontractor's negligent acts, errors, or omissions. Unless otherwise agreed to, in writing, by the City, Contractor shall require that all of Contractor's subcontractors also comply with, and be subject to, the provisions of this **Section 14** and meet the same insurance requirements of Contractor under this Contract.

14.5. Contractor must make prompt payment for any claims for labor, materials, or services furnished to Contractor by any person in connection with this Contract as such claims become due. Contractor shall not permit any liens or claims to be filed or prosecuted against the City on account of any labor or material furnished to or on behalf of Contractor. If Contractor fails, neglects, or refuses to make prompt payment of any such claim, the City may pay such claim to the person furnishing the labor, materials, or services, and offset the amount of the payment against funds due, or to become due, to Contractor under this Contract. The City may also recover any such amounts directly from Contractor.

14.6. Contractor must comply with all Oregon and federal wage and hour laws, including BOLI wage requirements, if applicable. Contractor shall make all required workers compensation and medical care payments on time. Contractor shall be fully responsible for payment of all employee withholdings required by law, including but not limited to taxes, including payroll, income, Social Security (FICA), and Medicaid. Contractor shall also be fully responsible for payment of salaries, benefits, taxes, and all other charges due on account of any employees. Contractor shall pay all contributions or amounts due the Industrial Accident Fund from Contractor or subcontractor incurred in the performance of this Contract. Contractor shall pay to the Department of Revenue all sums withheld from employees pursuant to ORS 316.167. All costs incident to the hiring of subcontractors or employees shall be Contractor's responsibility. Contractor shall defend, indemnify, and hold the City harmless from claims for payment of all such expenses.

14.7. No person shall be discriminated against by Contractor or any subcontractor in the performance of this Contract on the basis of sex, gender, race, color, creed, religion, marital status, age, disability, sexual orientation, gender identity, or national origin. Any violation of this provision shall be grounds for cancellation, termination, or suspension of the Contract, in whole or in part, by the City. Contractor shall comply with all federal, state, and local laws, regulations, executive orders, and ordinances applicable to the Contract or to the implementation of the Project. Without limiting the generality of the foregoing, Contractor expressly agrees to

comply with the following laws, regulations, and executive orders to the extent they are applicable to the Contract or the implementation of the Project: (a) all applicable requirements of state civil rights and rehabilitation statutes, rules, and regulations; (b) Titles VI and VII of the Civil Rights Act of 1964, as amended; (c) Sections 503 and 504 of the Rehabilitation Act of 1973, as amended; (d) the Americans with Disabilities Act of 1990, as amended, and ORS 659A.142; (e) Executive Order 11246, as amended; (f) the Health Insurance Portability and Accountability Act of 1996; (g) the Age Discrimination in Employment Act of 1967, as amended, and the Age Discrimination Act of 1975, as amended; (h) the Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended; (i) all regulations and administrative rules established pursuant to the foregoing laws; and (j) all other applicable requirements of federal civil rights and rehabilitation statutes, rules, and regulations.

14.8. Contractor certifies that Contractor has not discriminated against minority, women, or small business enterprises in obtaining any subcontract.

14.9. Pursuant with ORS 279C.505(2), by execution of this Contract, Contractor agrees to have an employee drug testing program in place at the time of executing the Contract, acknowledges that such a program will be maintained throughout the Contract period, including any extensions, and shall demonstrate to the City that such drug testing program is in place. The failure of Contractor to have, or to maintain, such a drug-testing program is grounds for immediate termination of the Contract. Contractor shall require each subcontractor providing labor for the Project to also comply with this drug testing program requirement.

14.10. Contractor agrees that the City shall not be liable, either directly or indirectly, in any dispute arising out of the substance or procedure of Contractor's drug testing program. Nothing in this drug testing provision shall be construed as requiring Contractor to violate any legal, including constitutional, rights of any employee, including but not limited to selection of which employees to test and the manner of such testing. The City shall not be liable for Contractor's negligence in establishing or implementing, or failure to establish or implement, a drug testing policy or for any damage or injury caused by Contractor's employees acting under the influence of drugs while performing Work covered by the Contract. These are Contractor's sole responsibilities, and nothing in this provision is intended to create any third party beneficiary rights against the City.

14.11. Contractor is solely responsible for ensuring that any subcontractor selection and substitution is in accordance with all legal requirements. The City shall not be liable, either directly or indirectly, in any dispute arising out of Contractor's actions with regard to subcontractor selection and/or substitution.

14.12. Contractor shall make payment promptly, as due, to all parties supplying to such Contractor labor or material for the prosecution of the Work provided for in the Contract Documents, and shall be responsible for payment to such persons supplying labor or material to any subcontractor.

14.13. By execution of this Contract, as required by ORS 305.385(6), Contractor certifies under penalty of perjury that to the best of Contractor's knowledge, Contractor is not in violation of any tax laws described in ORS 305.380(4).

14.14. Contractor agrees that if Contractor or a first-tier subcontractor fails, neglects, or refuses to make payment to a person furnishing labor or materials in connection with this Contract within thirty (30) days after receiving payment from the City or a contractor, Contractor or the first-tier subcontractor shall owe the person the amount due plus interest charges commencing at the end of the ten (10) day period within which payment is due under ORS 279C.580(3)(a) and ending upon final payment, unless payment is subject to a good faith dispute as defined in ORS 279C.580. The rate of interest on the amount due shall be calculated in accordance with ORS 279C.515(2). The amount of interest may not be waived.

14.15. Contractor agrees that if Contractor or a subcontractor fails, neglects or refuses to make payment to a person furnishing labor or materials in connection with this Contract, the person may file a complaint with the Construction Contractors Board, unless payment is subject to a good faith dispute as defined in ORS 279C.580.

14.16. Contractor shall make payment promptly, as due, to any party furnishing medical, surgical, hospital, or other needed care and attention, incident to sickness or injury, to the employees of Contractor, of all sums which Contractor agreed to pay or collected or deducted from the wages of employees pursuant to any law, contract, or agreement for the purpose of providing payment for such service.

14.17. Contractor and all subcontractors shall comply with the provisions of ORS 279C.540 pertaining to maximum hours, holidays, and overtime. With certain exceptions listed below, Contractor shall not require or permit any person to work more than ten (10) hours in any one (1) day, or forty (40) hours in any one (1) week, except in case of necessity, emergency, or where public policy requires it, and in such cases the person shall be paid at least time and a half for:

14.17.1. All overtime in excess of eight (8) hours in any one (1) day or forty (40) hours in any one (1) week when the work week is five (5) consecutive days, Monday through Friday; or

14.17.2. All overtime in excess of ten (10) hours in any one (1) day or forty (40) hours in any one (1) week when the work week is four (4) consecutive days, Monday through Friday; and

14.17.3. All work performed on the days specified in ORS 279C.540(1)(b) for public improvement contracts.

14.18. Contractor and all subcontractors shall comply with the provisions of ORS 279C.545 pertaining to time limitation on claims for overtime and requirements for posting circulars containing said provisions.

14.19. For personal/professional service contracts, as designated under ORS 279A.055, instead of 14.17.1, 14.17.2, and 14.17.3 above, a laborer shall be paid at least time and a half for all overtime worked in excess of forty (40) hours in any one (1) week, except for individuals under these contracts who are excluded under ORS 653.010 to 653.261 or under 29 USC §§ 201 to 209 from receiving overtime.

14.20. Contractor shall follow all other exceptions, pursuant to ORS 279B.235 (for non-public improvement contracts) and ORS 279C.540 (for public improvement contracts), including contracts involving a collective bargaining agreement, contracts for services, and contracts for fire prevention or suppression.

14.21. Contractor must give notice to employees who work on a public contract, in writing, either at the time of hire or before commencement of Work on the Contract, or by posting a notice in a location frequented by employees, of the number of hours per day and days per week that the employees may be required to work.

14.22. The hourly rate of wage to be paid by any Contractor or subcontractor to employed workers or other persons doing or contracting to do all or part of the work contemplated by a public contract shall be not less than the applicable wage required by law.

14.23. Contractor, its subcontractors, and all employers working under the Contract are subject employers under the Oregon Workers Compensation Law and shall comply with ORS 656.017 and provide the required workers compensation coverage, unless otherwise exempt under ORS 656.126. Contractor shall ensure that each of its subcontractors complies with these requirements.

14.24. In the performance of this Contract, Contractor shall comply with all applicable federal, state, and local laws, municipal codes, regulations, rules, and ordinances, including but not limited to those dealing with public contracts (ORS Chapter 279C) and with the prevention of environmental pollution and the preservation of natural resources (and avoidance of natural resource damages) in the performance of the Contract, including but not limited to ORS 279C.525. To the extent that known environmental and natural resource risks are specifically noted, shown, or specified in the Contract Documents or on the construction drawings, such risks are allocated to Contractor pursuant with ORS 279C.525(8)(a). If new or amended statutes, ordinances, rules, or regulations are adopted, or Contractor encounters a condition not referred to in this Contract, not caused by Contractor, and that was not discoverable by reasonable site inspection which requires compliance with federal, state, or local laws, codes, or regulations dealing with the preservation of the environment, both the City and Contractor shall have all the rights and obligations set forth in ORS 279C.525.

14.25. Contractor shall be liable for any fine imposed against Contractor, the City or the 'Project' as a result of a violation of any laws or permitting requirements by Contractor or any of its subcontractors or their sub-subcontractors or any suppliers.

14.26. Pursuant to ORS 279B.055, Contractor shall use recyclable products to the maximum extent economically feasible, and in full conformance with the Contract Document Specifications, in the performance of the Work.

14.27. COVID-19 Safety Measures. Contractor must have a written policy in place to comply with all applicable local, state, and federal laws, regulations, and executive orders related to the COVID-19 coronavirus outbreak to ensure the protection of Contractor's employees and/or subcontractors, City employees, and the public. Contractor must provide its written policy to the City Project Manager at the commencement of the Project. In the event that Contractor is

required to stop or delay work due to a COVID-19 related event, Contractor shall not be entitled to any additional payment, remobilization costs, or delay damages.

Section 15. Subcontractor Requirements

15.1. If subcontractors are permitted, Contractor's relations with subcontractors shall comply with ORS 279C.580. Pursuant with ORS 279C.580(3), each subcontract for property or services that Contractor enters into with a first-tier subcontractor, including a material supplier, for the purpose of performing a construction contract, shall include:

15.1.1. A payment clause that obligates Contractor to pay the first-tier subcontractor for satisfactory performance under the subcontract within ten (10) days out of such amounts as are paid to Contractor by the City under the public improvement contract; and

15.1.2. An interest penalty clause that obligates Contractor, if payment is not made within 30 days after receipt of payment from the City, to pay to the first-tier subcontractor an interest penalty on amounts due in the case of each payment not made in accordance with the payment clause outlined in **Subsection 15.1.1** above. A contractor or first-tier subcontractor may not be obligated to pay an interest penalty if the only reason that the contractor or first-tier subcontractor did not make payment when payment was due is that the contractor or first-tier subcontractor did not receive payment from the City or Contractor when payment was due. The interest penalty period shall begin on the day after the required payment date and end on the date on which payment of the amount due is made and shall be computed at the rate specified in ORS 279C.515(2).

15.2. Contractor shall include in each subcontract, as a condition of performance of such contract, a provision requiring the first-tier subcontractor to include a payment clause and interest penalty clause, conforming to the standards set forth in **Subsections 15.1.1 and 15.1.2** above, in each of its subcontracts and requiring that the same clauses be included in any of the first-tier subcontractors' subcontracts with a lower-tier subcontractor or supplier.

15.3. Contractor shall certify that all subcontractors, as described in ORS 701.005(2), will be registered with the Construction Contractors Board or licensed by the State Landscape Contractors Board in accordance with ORS 701.035 or 701.026, respectively, before the subcontractors commence Work under the Contract.

15.4. In no event shall any subcontract be awarded to any person or entity debarred, suspended, or disqualified from federal, state, or municipal contracting.

15.5. Contractor shall include this Contract by reference in any subcontract and require subcontractors to perform in strict compliance with this Contract.

Section 16. Environmental Laws

16.1. In compliance with the provisions of ORS 279C.525, the following is a list of federal, state, and local agencies, of which the City has knowledge, that have enacted ordinances

or regulations dealing with the prevention of environmental pollution and the preservation of natural resources that may affect the performance of the Contract:

FEDERAL AGENCIES:

Forest Service
Defense, Department of
Environmental Protection Agency
Bureau of Sport Fisheries and Wildlife
Bureau of Land Management
Bureau of Reclamation
Occupational Safety and Health Administration
Coast Guard

Agriculture, Department of
Soil Conservation Service
Army Corps of Engineers
Interior, Department of
Bureau of Outdoor Recreation
Bureau of Indian Affairs
Labor, Department of
Transportation, Department of
Federal Highway Administration

STATE AGENCIES:

Environmental Quality, Department of
Forestry, Department of
Human Resources, Department of
Soil and Water Conservation Commission
State Land Board

Agriculture, Department of
Fish and Wildlife, Department of
Geology and Mineral Industries, Department of
Land Conservation and Development Commission
National Marine Fisheries Service (NMFS)
State Engineer
Water Resources Board

LOCAL AGENCIES:

County Courts
Port Districts
County Service Districts
Water Districts

City Council
County Commissioners, Board of
Metropolitan Service Districts
Sanitary Districts
Fire Protection Districts

This list may not be all-inclusive, and it is the responsibility of Contractor to know all applicable laws and to comply with them in the performance of this Contract.

16.2. Pursuant with ORS 279C.510(1), if this Contract calls for demolition work, Contractor shall salvage or recycle construction and demolition debris, if feasible and cost-effective.

16.3. Pursuant with ORS 279C.510(2), if this Contract calls for lawn or landscape maintenance, Contractor shall compost or mulch yard waste material at an approved site, if feasible and cost-effective.

16.4. Contractor shall be responsible for the immediate clean-up, remediation, reporting, and payment of fines, if any, related to the release of any hazardous substance or material by Contractor or any subcontractor.

16.5. Contractor must maintain a City of Wilsonville or Metro business license at all times while performing Work under this Contract.

Section 17. Indemnity

17.1. Indemnification. Contractor acknowledges responsibility for liability arising out of the performance of this Contract, and shall defend, indemnify, and hold the City harmless from any and all liability, settlements, loss, costs, and expenses in connection with any action, suit, or claim resulting or allegedly resulting from Contractor's negligent acts, omissions, errors, or willful or reckless misconduct pursuant to this Contract, or from Contractor's failure to perform

its responsibilities as set forth in this Contract. The review, approval, or acceptance by the City, its Project Manager, or any City employee of documents or other work performed, prepared, or submitted by Contractor shall not be considered a negligent act, error, omission, or willful misconduct on the part of the City, and none of the foregoing shall relieve Contractor of its responsibility to perform in full conformity with the City's requirements, as set forth in this Contract, and to indemnify the City as provided above and to reimburse the City for any and all costs and damages suffered by the City as a result of Contractor's negligent performance of this Contract, failure of performance hereunder, violation of state or federal laws, or failure to adhere to the standards of performance and care described in **Subsection 17.2**. Contractor shall defend the City (using legal counsel reasonably acceptable to the City) against any claim that alleges negligent acts, omissions, errors, or willful or reckless misconduct by Contractor. As used herein, the term "Contractor" applies to Contractor and its own agents, employees, and suppliers, and to all of Contractor's subcontractors, including their agents, employees, and suppliers.

17.2. Standard of Care. In the performance of the Work, Contractor agrees to use at least that degree of care and skill exercised under similar circumstances by reputable members of Contractor's profession practicing in the Portland metropolitan area. Contractor will re-perform any Work not meeting this standard without additional compensation. Contractor's re-performance of any Work, even if done at the City's request, shall not be considered as a limitation or waiver by the City of any other remedies or claims it may have arising out of Contractor's failure to perform in accordance with the applicable standard of care of this Contract and within the prescribed timeframe.

Section 18. Insurance

18.1. Insurance Requirements. Contractor must maintain insurance coverage acceptable to the City in full force and effect throughout the term of this Contract. Such insurance shall cover all risks arising directly or indirectly out of Contractor's activities or Work hereunder. Any and all agents or subcontractors with which Contractor contracts for any portion of the Work must have insurance that conforms to the insurance requirements in this Contract. Additionally, if a subcontractor is an engineer, architect, or other professional, Contractor must require the subcontractor to carry Professional Errors and Omissions insurance and must provide to the City proof of such coverage. The amount of insurance carried is in no way a limitation on Contractor's liability hereunder. The policy or policies maintained by Contractor shall provide at least the following minimum limits and coverages at all times during performance of this Contract:

18.1.1. Commercial General Liability Insurance. Contractor and all subcontractors shall obtain, at each of their own expense, and keep in effect during the term of this Contract, comprehensive Commercial General Liability Insurance covering Bodily Injury and Property Damage, written on an "occurrence" form policy. This coverage shall include broad form Contractual Liability insurance for the indemnities provided under this Contract and shall be for the following minimum insurance coverage amounts: The coverage shall be in the amount of **\$2,000,000** for each occurrence and **\$3,000,000** general aggregate and shall include Products-Completed Operations Aggregate in the minimum amount of **\$2,000,000** per occurrence, Fire Damage (any one fire) in the minimum amount of **\$50,000**, and Medical Expense (any one person) in the minimum amount of **\$10,000**. All of the foregoing coverages must be carried and maintained at all times during this Contract.

18.1.2. Business Automobile Liability Insurance. If Contractor or any subcontractors will be using a motor vehicle in the performance of the Work herein, Contractor shall provide the City a certificate indicating that Contractor and its subcontractors have business automobile liability coverage for all owned, hired, and non-owned vehicles. The Combined Single Limit per occurrence shall not be less than **\$2,000,000**.

18.1.3. Workers Compensation Insurance. Contractor, its subcontractors, and all employers providing work, labor, or materials under this Contract that are subject employers under the Oregon Workers Compensation Law shall comply with ORS 656.017, which requires them to provide workers compensation coverage that satisfies Oregon law for all their subject workers under ORS 656.126. Out-of-state employers must provide Oregon workers compensation coverage for their workers who work at a single location within Oregon for more than thirty (30) days in a calendar year. Contractors who perform work without the assistance or labor of any employee need not obtain such coverage. This shall include Employer's Liability Insurance with coverage limits of not less than **\$500,000** each accident.

18.1.4. Insurance Carrier Rating. Coverages provided by Contractor and its subcontractors must be underwritten by an insurance company deemed acceptable by the City, with an AM Best Rating of A or better. The City reserves the right to reject all or any insurance carrier(s) with a financial rating that is unacceptable to the City.

18.1.5. Additional Insured and Termination Endorsements. The City will be named as an additional insured with respect to Contractor's liabilities hereunder in insurance coverages. Additional Insured coverage under Contractor's Commercial General Liability, Automobile Liability, and Excess Liability Policies, as applicable, will be provided by endorsement. Additional insured coverage shall be for both ongoing operations via ISO Form CG 2010 or its equivalent, and products and completed operations via ISO Form CG 2037 or its equivalent. Coverage shall be Primary and Non-Contributory. Waiver of Subrogation endorsement via ISO Form CG 2404 or its equivalent shall be provided. The following is included as additional insured: "The City of Wilsonville, its elected and appointed officials, officers, agents, employees, and volunteers." An endorsement shall also be provided requiring the insurance carrier to give the City at least thirty (30) days' written notification of any termination or major modification of the insurance policies required hereunder. Contractor must be an additional insured on the insurance policies obtained by its subcontractors performing any of the Work contemplated under this Contract.

18.1.6. Certificates of Insurance. As evidence of the insurance coverage required by this Contract, Contractor shall furnish a Certificate of Insurance to the City. This Contract shall not be effective until the required certificates and the Additional Insured Endorsements have been received and approved by the City. Contractor agrees that it will not terminate or change its coverage during the term of this Contract without giving the City at least thirty (30) days' prior advance notice and Contractor will obtain an endorsement from its insurance carrier, in favor of the City, requiring the carrier to notify the City of any termination or change in insurance coverage, as provided above.

18.2. Primary Coverage. The coverage provided by these policies shall be primary, and any other insurance carried by the City is excess. Contractor shall be responsible for any deductible amounts payable under all policies of insurance. If insurance policies are “Claims Made” policies, Contractor will be required to maintain such policies in full force and effect throughout any warranty period.

Section 19. Bonding Requirements

19.1. Payment and Performance Bonds. Contractor shall obtain a Payment Bond and a Performance Bond, each in a form acceptable to the City and from a surety acceptable to the City, and each in the full amount of the Contract Sum.

19.2. Maintenance/Warranty Bond. Contractor shall maintain a two (2) year Maintenance/Warranty Bond, in a form acceptable to the City and from a surety acceptable to the City, in the amount of ten percent (10%) of the Contract Sum.

19.3. Public Works Bond. Pursuant to ORS 279C.830(2), in addition to the Payment and Performance bonds, before starting work on this Contract or any subcontract hereunder, Contractor and all subcontractors, unless exempt under ORS 279C.836(4), (7), (8), or (9), must have on file with the Construction Contractors Board a public works bond with a corporate surety authorized to do business in the State of Oregon in the minimum amount of **\$30,000**. The bond must provide that the Contractor or subcontractor will pay claims ordered by the Bureau of Labor and Industries to workers performing labor upon public works projects. The bond must be a continuing obligation, and the surety’s liability for the aggregate of claims that may be payable from the bond may not exceed the penal sum of the bond. The bond must remain in effect continuously until depleted by claims paid under ORS 279C.836, unless the surety sooner cancels the bond. Contractor further certifies that Contractor will include in every subcontract a provision requiring a subcontractor to have a public works bond filed with the Construction Contractors Board before starting work on the Project, unless exempt under ORS 279C.836(4), (7), (8), or (9).

19.4. Bond Claims. Any notice of claim on a payment or performance bond or public works bond shall comply with the requirements of ORS 279C.605.

Section 20. Warranty

20.1. Contractor shall provide a full warranty for all Work for a period of two (2) years from the date of Final Acceptance of all Work.

20.2. In addition to, and not in lieu of, any other warranties provided by various manufacturers and suppliers, Contractor fully warrants all Work for a period of two (2) years from the date of Final Acceptance of the Work and shall make all necessary repairs and replacements to remedy, in a manner satisfactory to the City’s Project Manager and at no cost to the City, any and all defects, breaks, or failures of the Work occurring within two (2) years following the date of completion due to faulty or inadequate materials or workmanship. Repair of damage or disturbances to other improvements under, within, or adjacent to the Work, whether or not caused by settling, washing, or slipping, when such damage or disturbance is caused, in whole or in part, from activities of Contractor in performing Contractor’s duties and obligations

under this Contract, is also covered by the warranty when such defects or damage occur within the warranty period. The two (2) year warranty period shall, with relation to such required repair, be extended two (2) years from the date of completion of such repair.

20.3. If Contractor, after written notice, fails within **ten (10) days** to proceed to comply with the terms of this section, the City may have the defects corrected, and Contractor and Contractor's surety shall be liable for all expense incurred. In case of an emergency where, in the opinion of the City's Project Manager, delay would cause serious loss or damage, repairs may be made without notice being given to Contractor, and Contractor or Contractor's surety shall pay the cost of repairs. Failure of the City's Project Manager to act in case of an emergency shall not relieve Contractor or Contractor's surety from liability and payment of all such costs.

20.4. Current State Law (ORS 12.135) provides for a ten (10) year period, from the time of Substantial Completion, for the City to file a claim for repairs of defective Work due to Contractor's improper use of materials and/or workmanship, and Contractor agrees it is bound thereby.

Section 21. Early Termination; Default

21.1. This Contract may be terminated prior to the expiration of the agreed upon terms:

21.1.1. By mutual written consent of the parties;

21.1.2. By the City, for any reason, and within its sole discretion, effective upon delivery of written notice to Contractor by mail or in person. The City retains the right to elect whether or not to proceed with actual construction of the Project; or

21.1.3. By the City if Contractor breaches this Contract and fails to cure the breach within ten (10) days of receipt of written notice of the breach from the City.

21.2. If the City terminates this Contract in whole or in part, due to default or failure of Contractor to perform Work in accordance with the Contract, the City may procure, upon reasonable terms and in a reasonable manner, services similar to those so terminated. In addition to any other remedies the City may have, both at law and in equity, for breach of contract, Contractor shall be liable for all costs and damages incurred by the City as a result of the default by Contractor, including, but not limited to all costs incurred by the City in procuring services from others as needed to complete this Contract. This Contract shall be in full force to the extent not terminated by written notice from the City to Contractor. In the event of a default, the City will provide Contractor with written notice of the default and a period of ten (10) days to cure the default. If Contractor notifies the City that it wishes to cure the default but cannot, in good faith, do so within the ten (10) day cure period provided, then the City may elect, in its sole discretion, to extend the cure period to an agreed upon time period, or the City may elect to terminate this Contract and seek remedies for the default, as provided above.

21.3. If the City terminates this Contract for its own convenience not due to any default by Contractor, payment of Contractor shall be prorated to, and include the day of, termination and shall be in full satisfaction of all claims by Contractor against the City under this Contract.

21.4. Termination under any provision of this section shall not affect any right, obligation, or liability of Contractor or the City that accrued prior to such termination. Contractor shall surrender to the City items of work or portions thereof, referred to in **Section 27**, for which Contractor has received payment or the City has made payment.

Section 22. Suspension of Work

The City may suspend, delay, or interrupt all or any part of the Work for such time as the City deems appropriate for its own convenience by giving written notice thereof to Contractor. An adjustment in the time of performance or method of compensation shall be negotiated as a result of such delay or suspension, unless the reason for the delay was within Contractor's control. The City shall not be responsible for Work performed by any subcontractors after notice of suspension is given by the City to Contractor.

Section 23. Final Completion and Liquidated Damages

23.1. Contractor's Project Manager and City's Project Manager shall conduct a final inspection of the Project when Contractor believes the Work is complete, and create a project corrections list ("punch list") of any remaining items to be completed before the Final Completion date of December 31, 2020. All punch list items must be fully addressed and corrected on or before the Final Completion date.

23.2. The City and Contractor recognize that time is of the essence of this Contract and that the City will suffer financial loss and public detriment if all Work is not fully completed by December 31, 2020, plus any extensions thereof granted, in writing, by the City. Both parties also recognize the delays, expenses, and difficulties involved in proving in a legal proceeding the actual loss suffered by the City if the Work is not completed on time. Accordingly, instead of requiring any such proof, the City and Contractor agree that as liquidated damages for delay (but not as a penalty), Contractor shall pay the City the amount of EIGHT HUNDRED FORTY-FIVE DOLLARS AND THIRTY-FIVE CENTS (\$845.35) per day for each and every day that expires after December 31, 2020. Retainage will not be released before Final Completion is established.

23.3. The parties further agree that this amount of liquidated damages is a reasonable forecast of just compensation for the harm caused by any breach and that this harm is one which is impossible or very difficult to estimate. In addition to the liquidated damages above, Contractor shall reimburse the City for all costs incurred by the City for engineering, inspection, and project management services required beyond the time specified for Final Completion. Contractor shall also reimburse the City for all costs incurred for inspection and project management services required due to punch list items not completed within the time allotted for Final Completion. If Contractor fails to reimburse the City directly, the City will deduct the cost from Contractor's final pay request.

23.4. Contractor will not be responsible for liquidated damages or be deemed to be in default by reason of delays in performance due to circumstances beyond Contractor's reasonable control, including but not limited to strikes, lockouts, severe acts of nature, or actions of unrelated third parties not under Contractor's direction and control that would preclude any reasonable Contractor from performing the Work ("Force Majeure"). In the case of the happening of any Force Majeure event, the time for completion of the Work will be extended accordingly and

proportionately by the City, in writing. Poor weather conditions, unless extreme, lack of labor, supplies, materials, or the cost of any of the foregoing shall not be deemed a Force Majeure event.

Section 24. Contract Modification; Change Orders

Any modification of the provisions of this Contract shall not be enforceable or binding unless reduced to writing and signed by both the City and Contractor. A modification is a written document, contemporaneously executed by the City and Contractor, which increases or decreases the cost to the City over the agreed Contract Sum in **Section 4** of this Contract, or changes or modifies the Work described in the Contract Documents or the time for performance. In the event Contractor receives any communication of whatsoever nature from the City, which communication Contractor contends gives rise to any modification of this Contract, Contractor shall, within five (5) days after receipt, make a written request for modification to the City's Project Manager in the form of a Change Order. Contractor's failure to submit such written request for modification in the form of a Change Order shall be the basis for refusal by the City to treat said communication as a basis for modification or to allow such modification. In connection with any modification to this Contract affecting any change in price, Contractor shall submit a complete breakdown of labor, material, equipment, and other costs. If Contractor incurs additional costs or devotes additional time on Project tasks, the City shall be responsible for payment of only those additional costs for which it has agreed to pay under a signed Change Order. To be enforceable, the Change Order must describe with particularity the nature of the change, any delay in time the Change Order will cause, or any increase or decrease in the Contract Sum. The Change Order must be signed and dated by both Contractor and the City before the Change Order may be implemented.

Section 25. Dispute Resolution

In the event of a dispute concerning performance of this Contract, the parties agree to meet to negotiate the problem. If such negotiation fails, the parties will mediate the dispute using a professional mediator, and the parties will split the cost. If the dispute cannot be resolved in either of the foregoing ways within thirty (30) days, either party may file suit in Clackamas County Circuit Court. In the alternative, at the City's election, the parties may follow the dispute resolution procedures found in the Special Provisions.

Section 26. Access to Records

The City shall have access, upon request, to such books, documents, receipts, papers, and records of Contractor as are directly pertinent to this Contract for the purpose of making audit, examination, excerpts, and transcripts during the term of this Contract and for a period of four (4) years after termination of the Contract, unless the City specifically requests an extension. This clause shall survive the expiration, completion, or termination of this Contract.

Section 27. Property of the City

27.1. Originals or certified copies of the original work forms, including but not limited to documents, drawings, tracings, surveying records, spreadsheets, charts, graphs, modeling, data generation, papers, diaries, inspection reports, and photographs, performed or produced by Contractor under this Contract shall be the exclusive property of the City and shall be delivered

to the City prior to final payment. Any statutory or common law rights to such property held by Contractor as creator of such work shall be conveyed to the City upon request without additional compensation.

27.2. Contractor shall not be held liable for any damage, loss, increased expenses, or otherwise, caused by or attributed to the reuse by the City or its designees of all Work performed by Contractor pursuant to this Contract without the express written permission of Contractor.

Section 28. Notices

Any notice required or permitted under this Contract shall be in writing and shall be given when actually delivered in person or forty-eight (48) hours after having been deposited in the United States mail as certified or registered mail, addressed to the addresses set forth below, or to such other address as one party may indicate by written notice to the other party.

To City: City of Wilsonville
Attn: Martin Montalvo, Public Works Operations Manager
29799 SW Town Center Loop East
Wilsonville, OR 97070

To Contractor: Northstar Electrical Contractors Inc.
Attn: Jesse N. Culp
11055 SW Clay Street
Sherwood, OR 97140

Section 29. Miscellaneous Provisions

29.1. Integration. This Contract contains the entire and integrated agreement between the parties and supersedes all prior written or oral discussions, representations, or agreements. In case of conflict among these documents, the provisions of this Contract shall control.

29.2. Legal Effect and Assignment. This Contract shall be binding upon and inure to the benefit of the parties hereto and their respective heirs, personal representatives, successors, and assigns. This Contract may be enforced by an action at law or in equity.

29.3. No Assignment. Contractor may not assign this Contract, nor delegate the performance of any obligations hereunder, unless agreed to in advance and in writing by the City.

29.4. Adherence to Law. This Contract shall be subject to, and Contractor shall adhere to, all applicable federal, state, and local laws (including the Wilsonville Code and Public Works Standards), including but not limited to laws, rules, regulations, and policies concerning employer and employee relationships, workers compensation, and minimum and prevailing wage requirements. Any certificates, licenses, or permits that Contractor is required by law to obtain or maintain in order to perform the Work described in this Contract shall be obtained and maintained throughout the term of this Contract.

29.5. Governing Law. This Agreement shall be construed in accordance with and governed by the laws of the State of Oregon, regardless of any conflicts of laws. All contractual

provisions required by ORS Chapters 279A, 279B, 279C, and related Oregon Administrative Rules to be included in public agreements are hereby incorporated by reference and shall become a part of this Agreement as if fully set forth herein.

29.6. Jurisdiction. Venue for any dispute will be in Clackamas County Circuit Court.

29.7. Legal Action/Attorney Fees. If a suit, action, or other proceeding of any nature whatsoever (including any proceeding under the U.S. Bankruptcy Code) is instituted in connection with any controversy arising out of this Contract or to interpret or enforce any rights or obligations hereunder, the prevailing party shall be entitled to recover attorney, paralegal, accountant, and other expert fees and all other fees, costs, and expenses actually incurred and reasonably necessary in connection therewith, as determined by the court or body at trial or on any appeal or review, in addition to all other amounts provided by law. If the City is required to seek legal assistance to enforce any term of this Contract, such fees shall include all of the above fees, whether or not a proceeding is initiated. Payment of all such fees shall also apply to any administrative proceeding, trial, and/or any appeal or petition for review.

29.8. Nonwaiver. Failure by either party at any time to require performance by the other party of any of the provisions of this Contract shall in no way affect the party's rights hereunder to enforce the same, nor shall any waiver by the party of the breach hereof be held to be a waiver of any succeeding breach or a waiver of this nonwaiver clause.

29.9. Severability. If any provision of this Contract is found to be void or unenforceable to any extent, it is the intent of the parties that the rest of the Contract shall remain in full force and effect, to the greatest extent allowed by law.

29.10. Modification. This Contract may not be modified except by written instrument executed by Contractor and the City.

29.11. Time of the Essence. Time is expressly made of the essence in the performance of this Contract.

29.12. Calculation of Time. Except where the reference is to business days, all periods of time referred to herein shall include Saturdays, Sundays, and legal holidays in the State of Oregon, except that if the last day of any period falls on any Saturday, Sunday, or legal holiday observed by the City, the period shall be extended to include the next day which is not a Saturday, Sunday, or legal holiday. Where the reference is to business days, periods of time referred to herein shall exclude Saturdays, Sundays, and legal holidays observed by the City. Whenever a time period is set forth in days in this Contract, the first day from which the designated period of time begins to run shall not be included.

29.13. Headings. Any titles of the sections of this Contract are inserted for convenience of reference only and shall be disregarded in construing or interpreting any of its provisions.

29.14. Number, Gender and Captions. In construing this Contract, it is understood that, if the context so requires, the singular pronoun shall be taken to mean and include the plural, the masculine, the feminine and the neuter, and that, generally, all grammatical changes shall be made, assumed, and implied to individuals and/or corporations and partnerships. All captions

and paragraph headings used herein are intended solely for convenience of reference and shall in no way limit any of the provisions of this Contract.

29.15. Good Faith and Reasonableness. The parties intend that the obligations of good faith and fair dealing apply to this Contract generally and that no negative inferences be drawn by the absence of an explicit obligation to be reasonable in any portion of this Contract. The obligation to be reasonable shall only be negated if arbitrariness is clearly and explicitly permitted as to the specific item in question, such as in the case of where this Contract gives the City “sole discretion” or the City is allowed to make a decision in its “sole judgment.”

29.16. Other Necessary Acts. Each party shall execute and deliver to the other all such further instruments and documents as may be reasonably necessary to carry out this Contract in order to provide and secure to the other parties the full and complete enjoyment of rights and privileges hereunder.

29.17. Interpretation. As a further condition of this Contract, the City and Contractor acknowledge that this Contract shall be deemed and construed to have been prepared mutually by each party and it shall be expressly agreed that any uncertainty or ambiguity existing therein shall not be construed against any party. In the event that any party shall take an action, whether judicial or otherwise, to enforce or interpret any of the terms of the contract, the prevailing party shall be entitled to recover from the other party all expenses which it may reasonably incur in taking such action, including attorney fees and costs, whether incurred in a court of law or otherwise.

29.18. Defined Terms. Capitalized terms not otherwise defined herein shall have the meaning given to them in the Specifications and Contract Documents.

29.19. Entire Agreement. This Contract, all documents attached to this Contract, and all Contract Documents and laws and regulations incorporated by reference herein, represent the entire agreement between the parties.

29.20. Counterparts. This Contract may be executed in one or more counterparts, each of which shall constitute an original Contract but all of which together shall constitute one and the same instrument.

[Reminder of Page Intentionally Left Blank]

29.21. Authority. Each party signing on behalf of Contractor and the City hereby warrants actual authority to bind their respective party.

The Contractor and the City hereby agree to all provisions of this Contract.

CONTRACTOR:

CITY:

NORTHSTAR ELECTRICAL CONTRACTORS
INC.

CITY OF WILSONVILLE

By: _____

By: _____

Print Name: _____

Print Name: _____

As Its: _____

As Its: _____

Employer I.D. No. _____

APPROVED AS TO FORM:

Barbara A. Jacobson, City Attorney
City of Wilsonville, Oregon

Street Lighting LED Conversion Phase 1 CIP 4722

Bid Item No.	Spec Section	Bid Items	Unit	Qty	Unit Cost	Total Cost
1	210	Mobilization	LS	1	\$ 14,500.00	\$ 14,500.00
2	970	Lighting Poles and Arms	LS	1	\$ 21,000.00	\$ 21,000.00
3	970	Luminaires, Lamps, and Ballasts	LS	1	\$ 435,000.00	\$ 435,000.00
4	970	House Side Shields	EA	100	\$ 65.00	\$ 6,500.00
5	970	Switching, Conduit, and Wiring	LS	1	\$ 1,500.00	\$ 1,500.00
Total Amount						\$ 478,500.00

SPECIFICATIONS AND CONTRACT DOCUMENTS
FOR
STREET LIGHTING LED CONVERSIONS
PHASE 1

CITY OF WILSONVILLE PROJECT #4722

BID SUBMITTAL DUE BY:
2:00 PM, Wednesday, September 2, 2020



PREPARED BY:

Office of the Public Works Director
29799 SW Town Center Loop EAST
Wilsonville, OR 97070
(503) 682-1011

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BID ITEM DESCRIPTIONS

The following is a summary of the basis of payment for the project bid items. This list is intended as a summary of the items and is not intended to take precedence over the Project-specific Special Provisions.

Bid Schedule Item 1 – Mobilization (00210)

The bid item shall include all costs for preparing for construction activities. These costs may include, but are not limited to: moving equipment to the project site, establishing a temporary field office or storage space, moving personnel and supplies, acquiring bonds and submitting them to the City for approval, submitting certificates of insurance acceptable to the City, applying for and securing local permits as may be required, setting up administrative items, pre-construction meetings, and other preparatory activities associated with the project and shall on a lump sum basis at the Contract unit price. Payment of the lump sum amount bid for mobilization will be full compensation for the above items per the Contract unit price.

Bid Schedule Item 2 – Lighting Poles and Arms (00970)

This work consists of furnishing, installing light poles and arms in locations shown in the Plans. Payment for this lump sum item will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified in accordance with Section 00970 in the 2018 Oregon Standard Specifications for Construction as amended by the Special Provisions. Payment includes replacement of poles and arms, reinstallation of existing signs, disposal of existing equipment and coordination with PGE as required.

Bid Schedule Item 3 – Luminaires, Lamps and Ballasts (00970)

This work consists of removing existing light fixtures and installing new LED fixtures in accordance with the schedules shown in the Plans. Payment for this lump sum item will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified in accordance with Section 00970 in the 2018 Oregon Standard Specifications for Construction as amended by the Special Provisions. Payment includes replacement of fixtures, connection to existing electrical system, disposal of existing equipments and coordination with PGE as required.


Bid Schedule Item 4 – House Side Shields (00970)


This work consists of providing **an estimated quantity of house side shields to the City of Wilsonville and** installing on new luminaires where shields are present on the existing fixture and as directed by the City. The house shields will be paid by each as delivered. Installation is incidental to the Luminaires, Lamps and Ballast bid item.

Bid Schedule Item 5 – Switching, Conduit, and Wiring (00970)

This work consists of installing new switching, conduit and wiring in accordance with the schedules shown in the Plans. Payment for this lump sum item will be payment in full for furnishing and placing all materials, and for furnishing all equipment, labor, and incidentals necessary to complete the work as specified in accordance with Section 00970 in the 2018 Oregon Standard Specifications for Construction as amended by the Special Provisions. Payment includes installation, connection to existing electrical system, disposal of existing equipments and coordination with PGE as required.

PROFESSIONAL OF RECORD CERTIFICATION(S)

 <p>The seal is circular with a double border. The outer border contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "TERANCE ROGER SONG" at the bottom. The inner border contains "OREGON" at the top, "NOVEMBER 19, 1981" at the bottom, and "15704" in the center. A signature is written across the seal. Below the seal, it says "RENEWS 06-30-22".</p>	<p>Signing as the Professional of Record for the Special Provisions sections listed below:</p> <p>Project Specific Special Provisions Sections 00150.07, 00280, 00290</p> <p>Wilsonville Special Provisions Sections 00110, 00120, 00130, 00140, 00150, 00160, 00165, 00170, 00180, 00195, 00199, 00210, 00220, 00225, 00310, 00950.</p>
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 <p>The seal is circular with a double border. The outer border contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "JONATHAN MATTHEW BELLINGS" at the bottom. The inner border contains "OREGON" at the top, "MAY 13, 2014" at the bottom, and "89051" in the center. A signature is written across the seal. Below the seal, it says "RENEWS 6-30-21".</p>	<p>Signing as the Professional of Record for the Special Provisions sections listed below:</p> <p>Project Specific Special Provisions Sections 00960, 00962, 00970, 02560, 02926</p> <p>Wilsonville Special Provisions Sections none</p>
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SPECIAL PROVISIONS

- A. The 2018 edition of the “Oregon Standard Specifications for Construction” and the Current Edition City of Wilsonville Public Works Standards, as amended herein, these Special Provisions, the Invitation to Bid, the Accepted Proposal, the Agreement, the Plans, the Standard Details appended hereto, and all addenda issued prior to the execution of the Construction Contract and all modifications thereto shall apply and comprise the Contract Documents or the Contract. Where not amended, the Standard Specifications shall apply as they exist in printed form.
- B. All number references in these Special Provisions shall be understood to refer to the Sections and Subsections of the Standard Specifications and Supplemental Specifications bearing like numbers and to Sections and Subsections contained in these Special Provisions in their entirety.
- C. All references to State officers in the Standard Specifications shall be understood to mean the corresponding Contracting Agency officers for the purpose of this contract.
- D. There are three origins of Special Provisions included in this contract: project-specific Special Provisions, City of Wilsonville Special Provisions, and ODOT Boilerplate Special Provisions. The applicable ODOT Boilerplate Special Provisions are incorporated into the project-specific Special Provisions. The Special Provision types and order of precedence are identified as follows:

1 st	(Street Lighting LED Conversion 2020)	Project-specific Special Provision
2 nd	(Wilsonville 2018)	City of Wilsonville Special Provision
3 rd	(ODOT 2020)	ODOT Boilerplate Special Provisions

SECTION 00110 – ORGANIZATION, CONVENTIONS, ABBREVIATIONS, AND DEFINITIONS

Comply with Section 00110 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00110.20 Definitions: Bid Booklet - *Replace the entire definition with the following definition:*

The bound paper version included in the Solicitation Documents, or the electronic version that is available to be downloaded from the Agency designated website, that contain the information identified in 00120.10.

(Wilsonville 2018)

00110.20 Definitions: Class of Work - *Replace the entire definition with the following definition:*

A designation referring to the type of Work in which Bidders must be prequalified. Classes of Work are limited to those listed in the Agency’s Contractor Prequalification Application.

(Wilsonville 2018)

00110.20 Definitions: Roadway - *Replace the first sentence with the following sentence:*

That portion of a Highway or Street improved, designed, or ordinarily used for vehicular travel, exclusive of the berm or Shoulder.

(Wilsonville 2018)

00110.20 Definitions - *Add the following definition:*

Street or City Street – Any roadway, cul-de-sac, or alley within the public right of way under the jurisdictional control of the Agency.

SECTION 00120 – BIDDING REQUIREMENTS AND PROCEDURES

Comply with Section 00120 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00120.00 Prequalification of Bidders - *Replace the second and third paragraphs with the following paragraph:*

Bidders must be pre-qualified by the Oregon Department of Transportation in the Class or Classes of Work as specified in the Contract Documents prior to the date bids are due. Bids submitted by a Bidder who is not pre-qualified prior to the date bids are due will be rejected as non-responsive.

(Wilsonville 2018)

00120.01 General Bidding Requirements - *Replace this entire subsection, except for the heading, with the following subsection:*

Bidders shall submit bids in the format, location, and time identified in the Invitation to Bid, Instruction to Bidder's, and Bidder's Checklist of the Project's Bid Documents.

(Wilsonville 2018)

00120.05 Request for Plans, Special Provisions, and Bid Booklets - *Replace this entire subsection with the following heading and subsection:*

00120.05 Request for Bid Documents

Bid Documents will be available on August 3, 2020, after 8:00 AM at the City of Wilsonville. Copies of the bid documents, including project specifications, may be purchased for \$35.00 each from the City of Wilsonville City Hall, 29799 SW Town Center Loop East, Wilsonville, OR 97070. Requests for documents to be mailed overnight express via the U.S. Postal Service shall be accompanied by a separate check in the amount of \$35.00. The City of Wilsonville shall not be held responsible for the ability of the overnight carrier in delivering the documents. The Plans, which are applicable to the Work to be performed under the Contract, are included as a part of these Special Provisions.

Plans, Special Provisions, and Solicitation Documents may also be downloaded at www.questcdn.com. Prospective bidders shall contact QuestCDN customer services at (925) 233-1632 for assistance with free registration and downloading documents.

(Wilsonville 2018)

00120.15 Examination of Work Site and Solicitation Documents; Consideration of Conditions to be Encountered - *Add the following to the beginning of this subsection:*

It is understood that the plans, specifications and other contract documents do not purport to control the method of preparing the work, but only the requirements as to the nature of the completed work. The Contractor assumes the entire responsibility for the method of performing and installing the work. Suggestions as to the method of performing and installing the work included in the contract documents shall be deemed advisory only and the feasibility of such methods, or the lack thereof, shall not affect the Contractor's liability or status as an independent Contractor under this contract.

If Bidder, prior to submitting their Bid, should find discrepancies in, or omissions from the Plans, Specifications or other Contract Documents, or if they should be in doubt as to the true meaning of any part thereof, Bidder shall immediately make a written request to the Project Manager for corrections, clarification, or interpretation of the point or points in question. The Bidder submitting such request shall be responsible for its prompt delivery and this request shall be received at least five (5) calendar days prior to the date fixed for opening Bids.

(Wilsonville 2018)

00120.17(a) Use of Agency-Owned Land for Staging or Storage Areas: Within Normal Right-of-Way Limits - *Add the following to the end of the first paragraph:*

The Contractor shall at all times maintain adequate traffic control in accordance with the current version of the Manual on Uniform Traffic Control Devices (MUTCD) and any additional requirements deemed necessary by City's authorized representatives. Additional requirements shall not release the Contractor's responsibilities to maintain a safe environment for the public.

(Wilsonville 2018)

Add the following subsection:

00120.18 Use of Non-Agency Owned Land for Staging or Storage Areas:

The Contractor shall provide a copy of the executed agreement between the Contractor and property owner(s) prior to Contractor's use of non-agency owned land. The agreement shall include language, satisfactory to the City Attorney, indemnifying and holding harmless the Agency from any and all damages.

(Wilsonville 2018)

00120.20 Interpretation of Quantities in Bid Schedule - *Add the following to the end of the first paragraph:*

Material for work required to complete the project, but not specifically identified in the Contract Documents, shall be considered incidental to the Work.

(Wilsonville 2018)

00120.25 Subsurface Investigations - *Replace this entire subsection, except for the heading, with the following subsection:*

There are no subsurface or geologic investigations available for this project.

(Wilsonville 2018)

00120.30 Changes to Plans, Specifications, or Quantities before Opening of Bids - *Replace this entire subsection, except for the heading, with the following subsection:*

The Agency reserves the right to issue Addenda making changes or corrections to the Plans, Specifications, or quantities. Only holders of the Solicitation Documents obtained from the Agency who have been identified by

the Agency as Holders of the Solicitation Documents will be notified of these Addenda by mail or email sent to the Bidder's mailing address or email address as it appears in the Agency's files. Addenda will be posted and available for download through www.questcdn.com. Bidders shall be responsible for checking the QuestCDN website for Addenda. Bidders, not the Agency, shall be responsible for failure of Bidders to check and download Addenda or receive Addenda sent by mail or email. Bids shall incorporate all Addenda. Bids may be rejected if opened and found by the Agency to not be based on all Addenda issued before Bids were opened.

(Wilsonville 2018)

00120.40(a) Preparation of Bids: General - *Replace this entire subsection, except for the heading, with the following subsection:*

Bidders must be qualified by the City of Wilsonville as stated in 00120.00. In determining the responsiveness and responsibility of any bid submitted, establishing requisite qualification with the City shall not be considered an informality. Bids submitted by non-qualified contractors will be returned unopened via certified mail.

Bids shall not contain any recapitulation of the work to be done. Alternative proposals will not be considered unless called for. No oral or FAX proposals or modifications will be considered.

For Bids submitted, the Bidders shall not alter, in any manner, the paper documents bound within the Bid Section. Bidders shall complete the certifications and statements included in the Bid Section of the Bid Booklet according to the instructions. Signature of the Bidder's authorized representative thereon constitutes the Bidder's confirmation of an agreement to all certifications and statements contained in the paper bid Booklet. Entries on the paper documents in the Bid Section shall be in ink or typed. Signatures and initials shall be in ink.

The Bidder shall properly complete and bind all the paper documents in the Bid Section, as specified in 00120.10, between the front and back covers of the Bid Booklet, except that the Bid Bond is not required if another permissible type of Bid guaranty is provided in accordance with 00120.40(e).

(Wilsonville 2018)

00120.40(c)(2) Preparation of Bids: Bid Schedule Entries: Electronic Bid Schedule Entries - *Delete this entire subsection.*

(Wilsonville 2018)

00120.40(d) Preparation of Bids: Bidder's Address and Signature Pages - *Replace this entire subsection, except for the heading, with the following subsection:*

Bidders shall include in the Bid the address to which all communications concerning the Bid and Contract should be sent. The Bid must be signed by a duly authorized representative of the Bidder.

If the proposal is made by a partnership or corporation, the name and address of the partnership or corporation shall be shown. If the proposal is made by a partnership, it must be acknowledged by one of the partners; if made by a corporation, by one of the officers. The Bidder shall comply with all other specific requirements of the proposal form.

(Wilsonville 2018)

00120.40(e)(2) Preparation of Bids: Bid Guaranty: Bid Guaranty with Electronic Bids - *Delete this entire subsection.*

(Wilsonville 2018)

00120.40(f) Preparation of Bids: Disclosure of First Tier Subcontractors - *Replace this entire subsection, except for the heading, with the following subsection:*

Without regard to the amount of a Bidder's Bid, if the Agency's cost range for a public improvement Project in the "Notice to Contractors", or in other advertisement or solicitation documents, exceeds \$100,000, the Bidder shall, within 2 working hours of the time Bids are due to be submitted, submit to the Agency, on a form provided by the Agency, a disclosure identifying any first-tier Subcontractors that will furnish labor or labor and Materials, and whose contract value is equal to or greater than:

- 5% of the total Project Bid, but at least \$15,000; or
- \$350,000, regardless of the percentage of the total Project Bid.

For each Subcontractor listed, Bidders shall state:

- The name of the Subcontractor;
- The dollar amount of the subcontract; and
- The category of Work that the Subcontractor would be performing.

If no subcontracts subject to the above disclosure requirements are anticipated, a Bidder shall so indicate by entering "NONE" or by filling in the appropriate check box. For each Subcontractor listed, Bidders shall provide all requested information. An incomplete form will be cause for rejection of the Bid.

The Subcontract Disclosure Form may be submitted for a Bid either:

- By filling out the Subcontractor Disclosure Form included in the Bid Booklet and submitting it together with the Bid at the time and place designated for receipt of Bids, or
- By removing it from the paper Bid Booklet, filling it out and submitting it separately to the Agency at the address given in the Bid Booklet.

Subcontractor Disclosure Forms submitted by any method will be considered late if not received by the Agency within 2 working hours of the time designated for receiving Bids.

The Agency is not responsible for partial, failed, illegible or partially legible submittals, and such forms may be rejected as incomplete.

In the event that multiple Subcontractor Disclosure Forms are submitted, the last version received prior to the deadline will be considered to be the intended version.

Bids not in compliance with the requirements of this Subsection will be considered non-responsive.

(Wilsonville 2018)

00120.45 Submittal of Bids - *Replace this entire subsection, except for the heading, with the following subsection:*

Paper Bids may be submitted by mail, parcel delivery service, or hand delivery to the offices and addresses, and at the times given in the Bid Booklet. Submit Bids in an opaque sealed envelope marked with the word "Bid", the name of the Project, name and address of the Bidder, and the words "To Be Opened Only by Authorized

Personnel" on the outside. If submitted by mail or by parcel delivery service, the Bidder shall place the sealed envelope containing the paper Bid inside a separate sealed envelope or package.

Bids submitted after the time set for receiving Bids will not be opened or considered. The Agency assumes no responsibility for the receipt and return of late Bids.

(Wilsonville 2018)

00120.50 Submitting Bids for More than One Contract - *Delete this entire subsection.*

(Wilsonville 2018)

00120.60 Revision or Withdrawal of Bids - *Replace this entire subsection, except for the heading, with the following subsection:*

Information entered into the Bid Booklet by the Bidder may be changed after the Bid has been delivered to the Agency, provided that:

- Changes are prepared in accordance with the instructions found in the Bid Booklet; and
- Changes are received at the same office, address, and time identified in the Bid Booklet; and
- The changes are submitted in writing and signed by an individual authorized to sign the Bid.

A Bidder may withdraw its Bid after it has been delivered to the Agency, provided that:

- The written withdrawal request is submitted on the Bidder's letterhead in person and includes the name of the project; and
- The request is signed by an individual who is authorized to sign the Bid, and proof of authorization to sign the Bid accompanies the withdrawal request; and
- The request is received at the same office, address, and time identified in the Bid Booklet for submitting Bids.

The withdrawal of a bid shall not prejudice the right of a bidder to file a new bid within the time allowed in the Solicitation Documents.

(Wilsonville 2018)

00120.70 Revision or Withdrawal of Bids - *Delete the bulleted item that begins "An electronic Bids is not received..."*

(Wilsonville 2018)

00120.95 Opportunity for Cooperative Arrangement - *Delete this entire subsection.*

SECTION 00130 – AWARD AND EXECUTION OF CONTRACT

Comply with Section 00130 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00130.10 Award of Contract - *Replace this subsection beginning with the paragraph that begins "The Agency will provide..." through and including the last paragraph with the following:*

The Agency will provide a Notice of Intent to Award, Bid Summary, and Bid Tabulation, by email, to all Contractors who submitted Bids and were deemed responsible by the Agency.

The Award will not be final until approved by the City Council at one of its regularly scheduled meetings.

Notice of Award and Contract booklets ready for execution will be sent within 45 Calendar Days of the Notice of Intent to Award or within the number of Calendar Days specified in the Special Provisions or a written mutual agreement.

(Wilsonville 2018)

00130.15 Right to Protest Award - *Replace this entire subsection, except for the heading, with the following subsection:*

Adversely affected or aggrieved Bidders, limited to the three apparent lowest Bidders and any other Bidder directly in line for the Contract Award, may submit to the Project Manager a written protest of the Agency's intent to Award within 7 calendar days following issuance of the Notice of Intent to Award. The protest shall specify the grounds upon which it is based.

The Agency is not obligated to consider late protests.

(Wilsonville 2018)

00130.40(d) Contract Submittals: Registration Requirements - *Add the following paragraph to the end of this subsection:*

(5) Agency requires that Bidders and all sub-contractors obtain an Agency or Metro Business License prior to performing any work within the Wilsonville City limits. The Agency will not execute a Contract until the Contractor and all sub-contractors are so licensed.

(Wilsonville 2018)

00130.50(a) Execution of Contract Bonds: By the Bidder - *Replace the phrase "...ODOT Procurement Office – Construction Contracts Unit within 15 Calendar Days..." of the first paragraph with the following phrase:*

Agency within 10 Calendar Days

(Wilsonville 2018)

00130.50(b) Execution of Contract Bonds: By the Agency - *Add the following paragraph to the end of this subsection:*

Once the Contracts are executed by the Agency, the Project Manager will schedule a Pre-construction Meeting with the Contractor on date and time agreed to by both parties.

(Wilsonville 2018)

00130.90 Notice to Proceed - *Replace this entire subsection, except for the heading, with the following subsection:*

Notice to Proceed will be issued by the Agency during the Pre-construction Meeting.

Should the Agency fail to issue the Notice to Proceed during the Pre-construction Meeting, the Contractor may apply for an adjustment of Contract Time according to 00180.80(c).

The Engineer will issue a First Notification recording the date the performance of the Contracts has begun.

SECTION 00140 – SCOPE OF WORK

Comply with Section 00140 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00140.70(c) Cost Reduction Proposals: Consideration of Proposal - *Add the following sentence to the end of the first paragraph.*

Contractor shall bear all risks of delay for reasonable time spent by Agency to review and accept, modify or reject any such change requested by Contractor and shall not be entitled to any additional compensation for such delay.

(Wilsonville 2018)

Add the following subsection:

00140.85 Ongoing Project Site Cleanliness

The Contractor shall be responsible for the cleanliness of the construction site to the satisfaction of the Engineer during the construction period until final acceptance. Responsibility of subcontractors, installers, material suppliers or others for cleanliness shall be delegated as the Contractor shall see fit but shall in no way reduce Contractor's responsibility.

Extra materials not being used or considered surplus or salvage, crating, packing, boxing, packing paper, straw, broken materials, general scrap, and debris shall be removed from the site weekly. Burning of combustible material on the site will not be allowed.

SECTION 00150 – CONTROL OF WORK

Comply with Section 00150 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00150.05 Cooperative Arrangements - *Delete this entire subsection.*

(Wilsonville 2018)

00150.10(a) Coordination of Contract Documents: Order of Precedence - *Replace the list of bulleted items with the following bulleted item list:*

- Contract Change Orders, supplemental agreements and approved revisions to Plans and Specifications.
- The signed Agreement between the Agency and the Contractor;
- Public Works Construction Permit;
- Permits from outside Agencies required by law;
- Project-Specific Special Provisions;
- City of Wilsonville Special Provisions;
- ODOT Special Provisions;

- Stamped Project Drawings;
- Reviewed and accepted, stamped Working Drawings;
- City of Wilsonville Standard Drawings;
- City of Wilsonville Public Works Standard Specifications;
- Oregon Standard Drawings;
- 2018 Oregon Standard Specifications for Construction; and
- All other Contract documents not listed above.

(Wilsonville 2018)

00150.15(b) Construction Stakes, Lines, and Grades: Agency Responsibilities - *Replace the bullet that begins “Deduct from payments...” with the following bullet:*

- Deduct from payments due the Contractor all costs incurred to provide more than the one set of construction stakes for each phase of the work.

(Wilsonville 2018)

00150.37 Equipment Lists and Other Submittals - *Replace this entire subsection, except for the heading, with the following subsection:*

Unless otherwise provided, the Contractor shall submit Equipment lists, and other required submittals with the executed contract documents for approval by the Engineer. The Engineer will respond to requests for approval prior to issuing the First Notification (Notice to Proceed).

(Wilsonville 2018)

00150.40 Cooperation and Superintendence by the Contractor - *Replace the bullet that begins “Keeping one complete set...” with the following bullet:*

- Keeping one complete set of Contract Documents, City of Wilsonville Public Works Standards, and 2018 edition of the Oregon Standard Specifications for Construction on the Project Site at all times, available for use by all the Contractor’s own organization, and by the Engineer if necessary.

Replace the paragraph that begins “Any Superintendent or alternate...” with the following paragraph:

Any person employed on the project, by the Contractor or a subcontractor, who, in the opinion of the Engineer, does not act in a courteous and professional manner towards the adjacent property owners, the traveling public or Agency staff shall, at the written request of the Engineer, be removed from the project. That employee shall not be again employed on the project without the approval of the Engineer.

(Wilsonville 2018)

00150.50(b) Cooperation with Utilities: Agency Responsibilities - *Replace this entire subsection, except for the heading, with the following subsection:*

The Agency may provide available contact information for utility companies to the Contractor.

The Plans may not normally show the anticipated new location of Utilities that have been or will be adjusted.

(Wilsonville 2018)

00150.50(c) Cooperation with Utilities: Contractor's Responsibilities - Add the following bullet to the end of the bullet list:

- Verify the location of existing utilities by direct site investigation. Physical location of utilities in paved areas shall be determined by core and vactor-excavation. Patching of cores shall be with Level 3 (1/2") hot mix asphalt, sealed, and sanded. Potential conflicts with existing utilities shall be potholed no less than one week prior to performing work in the area of the potential conflict and results given to the Engineer for evaluation. Costs for this effort shall be considered incidental to other bid items. No separate measurement and payment will be made.

(Wilsonville 2018)

Add the following subsection:

00150.50(f) Cooperation with Utilities: Utility Information

The following organizations may be adjusting Utilities within the limits of the Project during the period of the Contract:

Type of Utility Responsible Authority

- Gas – Northwest Natural
- Electric – Portland General Electric
- Telephone – AT&T, MCI, and Verizon Communications
- Water, Storm & Sanitary Sewer – City of Wilsonville
- Cable TV & High Speed Internet – Comcast, Frontier, and Integra Telecom.

The Contractor shall be responsible, although Agency will cooperate as necessary, for scheduling and coordinating public utility work.

The Agency assumes no responsibility as to the exact location of utilities and/or omission from the plans. Existing utilities damaged by the Contractor shall be repaired or replaced at Contractor's expense.

The Contractor shall not be entitled to any additional compensation due to the presence of or interference, delays, or expense caused by said existing utilities.

The Contractor shall allow at least 4 weeks for the utility companies to relocate their facilities.

(Wilsonville 2018)

Add the following subsection:

00150.65 Use of Light, Power, and Water

The Contractor may connect any temporary electrical service, wiring and piping (with proper application and after obtaining the necessary meters) as required to execute the Work, to the extent that these services are presently available at the site. Any additional utilities required shall be furnished by the Contractor at Contractor's own expense.

Contractor shall bear all costs for refundable water meters deposits. Contractor shall not be charged for water from agency supplied bulk water meters on City capital projects.

Contractor shall obtain water meter from Public Works department to connect to City of Wilsonville hydrant. Under no circumstances shall the Contractor request or seek to use water from residential, commercial, or industrial property owners or tenants.

(Street Lighting LED Conversion 2020)

00150.70 Detrimental Operations - *Replace this entire subsection, except for the heading, with the following subsection:*

The Contractor shall avoid operations whose methods, conditions, or timing may injure people or damage property or the Work. Damage may include without limitation, staining surfaces with mud or asphalt or damaging Utilities and foundations. (also see 00150.60, 00150.75, and Section 00170)

When any such damage occurs, the Engineer will determine if it is to be corrected by repair, replacement, or compensatory payment by the Contractor. If compensatory payment is required, the Engineer will determine the amount. Compensatory payment may be deducted from monies due or to become due to the Contractor under the Contract.

In accordance with generally accepted construction practices and Executive Orders issued by the State of Oregon Office of the Governor, the Contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to Normal Working Hours. The duties of the Agency do not include review of the adequacy of the Contractor's safety measures, on or near the construction site.

(Wilsonville 2018)

Add the following subsection:

00150.90(c) Final Inspection: As-Built Drawings

Full-size project plans are provided by the Engineer. The Contractor shall keep accurate records on a set of full-size project plans of all additions or deletions to the work, and of all changes in location, elevation and character of the work not otherwise shown or noted on Contract Documents. Prior to Final Acceptance of the work, the Contractor shall transmit this "as-constructed" information to the Engineer for approval.

(Wilsonville 2018)

00150.97(b) Responsibility for Materials and Workmanship - *Add the following bullet to the end of the bullet list:*

- Current State Law (ORS 12.135) provides for a ten (10) year period, from the time of Substantial Completion, for the Agency to file for repairs of defective work due to the Contractor's improper use of materials and/or workmanship.

(Wilsonville 2018)

Add the following subsection:

00150.97(c) Responsibility for Materials and Workmanship

In addition to and not in lieu of any other warranties required under the Contract, the Contractor shall maintain a 2 year Maintenance/Warranty Bond from the time of Final Acceptance, in a form acceptable to the Agency and from a surety acceptable to the Agency. The Maintenance/Warranty Bond shall secure the Contractor's performance of any corrective work that may need to be performed within the first 2 years from the Final Acceptance of the project. The Maintenance/Warranty Bond amount shall be in the sum of 10 percent of the

final Contract Amount and 100 percent of the amount required to maintain and replace the landscaping installed with the Project.

If the Contractor, after written notice, fails within 10 days to proceed to comply with the terms of this section, Owner may have the defects corrected, and Contractor and Contractor's Surety shall be liable for all expense incurred. In case of an emergency where, in the opinion of the Engineer, delay would cause serious loss or damage, repairs may be made without notice being given to Contractor and Contractor or Surety shall pay the cost of repairs. Failure of the Engineer to act in case of an emergency shall not relieve Contractor or Surety from liability and payment of all such costs.

In addition, City of Wilsonville water line facilities installed by the contractor under the Contract that require repair or replacement during the two (2) year maintenance/warranty period shall be repaired by the Agency or, at the Agency's option, under direct supervision of the Agency and the Contractor and Contractor's surety shall be liable for all expenses.

SECTION 00160 – SOURCE OF MATERIALS

Comply with Section 00160 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00160.01(a) Notification of Source of Supply and Materials: All Materials – *Delete the paragraphs that begin with “The Contractor shall identify if the...” and “For this purpose, a committed DBE...”*

(Wilsonville 2018)

00160.10 Ordering, Producing, and Furnishing Materials: Approval of Quantity of Materials Ordered - *Delete the paragraph that begins “Excess Materials, ordered...”*

SECTION 00165 – QUALITY OF MATERIALS

Comply with Section 00165 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00165.02 Materials Conformance and Quality Compliance Documents - *Replace the phrase “...ODOT Manual of Field Test Procedures (MFTP)...” with the following phrase:*

ODOT Manual of Field Test Procedures (MFTP) and Wilsonville Public Works Standards

(Wilsonville 2018)

00165.03 Testing by Agency - *Replace this entire subsection, except for the heading, with the following subsection:*

All material testing shall be performed by the Agency, at the Agency's expense. The Contractor shall be responsible for obtaining contact information and scheduling the Agency's material tester for all required tests. The Contractor shall give the tester 48 hours advance notice of his operations requiring testing. Coordinate testing requirements with the Project Engineer. Results of the Agency's tests will be made available to the Contractor.

(Wilsonville 2018)

00165.10(a) Materials Acceptance Guides: Field Tested Materials - *Replace this entire subsection, except for the heading, with the following subsection:*

Field-tested Materials will be accepted according to the ODOT Manual of Field Test Procedures (MFTP) and the Wilsonville Public Works Standards with the more stringent of the testing requirements apply as determined by the Engineer. Testing frequencies will be at the discretion of the Engineer, and will generally be more frequent than shown in the MFTP. The following compaction standards apply:

- Trench backfill shall meet Wilsonville Public Works Standards requirements for compaction unless otherwise specified in the Project-specific special provisions.
- Roadway base rock compaction shall meet or exceed 95% of modified proctor (AASHTO T-180) unless otherwise specified in the Project-specific special provisions.
- All HMAC pavement lift compaction shall meet or exceed 92% relative density based on the theoretical maximum density determined in accordance with ASTM D-2041, "Rice Gravity" unless otherwise specified in the Project-specific special provisions.

(Wilsonville 2018)

00165.20 Materials Specifications and Test Method References - *Replace the four (4) lists of bulleted items that begins "Field-Tested Materials..." with the following bulleted item lists:*

Field-Tested Materials:

- Contract Change Orders;
- Special Provisions;
- Wilsonville Public Works Standards;
- MFTP; and
- Standard Specifications.

Nonfield-Tested Materials:

- Contract Change Orders;
- Special Provisions;
- Wilsonville Public Works Standards;
- ODOT Laboratory Manual of Test Procedures; and
- Standard Specifications.

Material test methods:

- Wilsonville Public Works Standards;
- ODOT;
- WAQTC;
- AASHTO;
- ASTM;
- Other recognized national organizations, such as ANSI, AWWA, IMSA, ISSA, and UL; and
- Industry standards in the location where the Work is being performed.

Sampling and testing frequencies:

- Contract Change Orders;
- Special Provisions;
- Wilsonville Public Works Standards;
- MFTP; and
- Standard Specifications.

SECTION 00170 – LEGAL RELATIONS AND RESPONSIBILITIES

Comply with Section 00170 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00170.02 Permits, Licenses, and Taxes - *Add the following bulleted items to the end of the bullet list:*

- All Contractors and Subcontractors shall obtain a City of Wilsonville Business License, or provide proof of a current METRO Business License (gross receipts per year of \$250,000 or more), at their own initiative and expense, prior to commencing Work on the Project.
- Contractor shall obtain “No Fee” water meter permits from the City of Wilsonville Building Department.

(Wilsonville 2018)

00170.70(a) Insurance: Insurance Coverages - *Replace all references to “Special Provisions” to the following:*

Contract Documents

(Wilsonville 2018)

00170.70(c) Insurance: Additional Insured - *Replace this entire subsection, except for the heading, with the following subsection:*

Additional Insured coverage under Contractor’s Commercial General Liability, Automobile Liability, Pollution Liability and Excess Liability Policy(ies), as applicable under 00170.70(a), will be provided by endorsement. Additional insured coverage shall be for both on-going operations via ISO Form CG 2010 or its equivalent, and products and completed operations via ISO Form CG 2037 or its equivalent. Coverage shall be Primary and Non-Contributory. Waiver of Subrogation endorsement via ISO form CG 2404 or its equivalent shall be provided. The following is included as additional insured: The City of Wilsonville, its elected and appointed officials, officers, agents, employees, and volunteers.

(Wilsonville 2018)

00170.72 Indemnity/Hold Harmless - *Add the following paragraph and bullets to the end of this subsection:*

Extend indemnity and hold harmless to the Agency and the following:

- The City of Wilsonville and its officers, agents, and employees;
- Wilsonville City Council;
- The City of Wilsonville Urban Renewal Agency and its officers, agents, and employees;
- Wilsonville Urban Renewal Board; and

- Project Consultants under Contract with the Agency

(Wilsonville 2018)

00170.85(b)(2) Responsibility for Defective Work: Contractor Furnished Warranties: General Warranty for Local Agency Projects - *Replace the paragraph that begins "The Contractor shall warrant..." with the following paragraph:*

The Contractor shall warrant all Work and workmanship, including Changed Work, Additional Work, Incidental Work, On-Site Work, and Extra Work, and Materials and Equipment incorporated in the Work for two (2) years from the date of Third notification, except that manufacturers' warranties and extended warranties according to 00170.85(c) shall not be abridged.

Replace the paragraph that begins "Corrections, repairs, replacement..." with the following paragraph:

Corrections, repairs, replacements or changes shall be warranted for an additional 2 year period beginning on the date of the Agency's acceptance of the corrections, repairs, replacements or changes.

(Wilsonville 2018)

00170.85(c)(1) Responsibility for Defective Work: Manufacturer Warranties and Guarantees: Manufacturer Warranties - *Replace the paragraph that begins "The warranty period will begin..." with the following paragraph:*

The warranty period will begin on the date of Third Notification.

(Wilsonville 2018)

00170.89(a) Protection of Utility, Fire-control, and Railroad Property and Services; Repair; Roadway Restoration: Protection of Utility, Fire-Control, and Railroad Property and Services; Coordination - *Replace the paragraph that begins "The Contractor shall conduct..." with the following paragraph:*

The Contractor shall conduct no activities of any kind around fire hydrants until the agency and local fire-control authority has approved provisions for continued service.

(Wilsonville 2018)

00170.94 Use of Explosives - *Replace this entire subsection, except for the heading, with the following subsection:*

The use of explosives is prohibited.

SECTION 00180 – PROSECUTION AND PROGRESS

Comply with Section 00180 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00180.20(d) Subcontracting Limitations: Disadvantaged Business Enterprise (DBE) – *Delete this entire subsection.*

(Wilsonville 2018)

00180.20(e) Subcontracting Limitations: Trucking – *Delete this entire subsection.*

(Wilsonville 2018)

00180.21(d) Subcontracting: Terms of Subcontracts - *Add the following paragraph to the end of this subsection:*

As and when applicable, the Contractor shall require in its subcontracts that subcontractors maintain the certifications required by Section 2, Chapter 325, Oregon Laws 2015 (Enrolled House Bill 2716), as amended by Section 26, Chapter 565, Oregon Laws 2015 (Enrolled House Bill 3303).

(Wilsonville 2018)

00180.40(a) Limitation of Operations: In General - *Add the following bulleted items to the end of the bullet list:*

- Contractor shall maintain vehicle access to all abutting properties and pedestrian access to bus stops at all times. No street shall be closed or access interrupted outside of the Normal Working Hours defined in Subsection 00180.40(c) without the express written approval of the Engineer upon Contractor's prior written request; and
- Be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work, in accordance with generally accepted construction practices. This requirement will apply continuously and not be limited to Normal Working Hours.
- Perform work in a contiguous manner, completing work without gaps in the street lighting system. Contractor may work in multiple areas simultaneously.

(Wilsonville 2018)

*Add the following subsection:***00180.40(c) Limitations of Operations: Normal Working Hours**

The following normal working hours will be observed on all City of Wilsonville capital projects:

Pacific Daylight Time (Daylight Savings Time)

7:00 a.m. to 9:00 p.m. Monday through Friday

9:00 a.m. to 7:00 p.m. on Saturday (Engineer Approval Required)

No Work on Sunday or Legal Holiday

Pacific Standard Time (Local Time)

7:00 a.m. to 8:00 p.m. Monday through Friday

9:00 a.m. to 6:00 p.m. on Saturday (Engineer Approval Required)

No Work on Sunday or Legal Holiday

Legal Holiday recognized by the Agency includes New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, Thanksgiving Holiday, and Christmas Day.

Work on a Saturday, Sunday, or Legal Holiday will be approved only when it is in the interest of Agency and must be of such a nature as to provide for, but not limited to, the following:

- Least inconvenience to the public;

- Least inconvenience to the Agency's infrastructure; and
- Least inconvenience to the Agency's Treatment Plant operation.

The Contractor shall submit a written request to the Engineer for approval of Work on a Saturday, Sunday, or Legal Holiday, no less than 48 hours in advance of the Work. The Engineer shall approve or reject the request in writing. No additional Contract Time will be given if request is rejected.

Limitations of operations specified in these Special Provisions include, but are not limited to, the following:

Limitations	Subsection
Cooperation with Utilities	00150.50
Cooperation with Other Contractors	00150.55
Railway Work	00170.01(e)
On-Site Work	00180.40(b)
Contract Completion Time	00180.50(h)
Right-of-Way and Access Delays	00180.65
Traffic Lane Restrictions	00220.40(e)
Special Events	00220.40(e)
In-water Work Restrictions	00290.34(a)
Noise Control	00290.32
Maintenance Under Traffic	00620.43
Opening Sections to Traffic	00744.51
Opening Sections to Traffic	00745.51

(Wilsonville 2018)

00180.41 Project Work Schedule -Delete all paragraphs beginning with the paragraph that begins "The Contractor shall submit a supplemental "look ahead" Project Work schedule each week..." through and including the paragraph that begins "The Contractor shall submit the supplemental "look ahead" Project Work schedule starting at First ...".

Replace the paragraph that begins "One of the following Type..." with the following paragraph:

A Type "A" schedule is required under the Contract unless specifically stated otherwise in the Project-specific Special Provisions.

00180.42 Preconstruction Conference - Replace the phrase "30 Calendar Days" with the following phrase:

10 Calendar Days

(Wilsonville 2018)

Add the following subsection:

00180.50(h) Contract Time

All Work must be at Final Completion by December 31, 2020.

(Wilsonville 2018)

00180.85(b)(1) Failure to Complete on Time; Liquidated Damages: Liquidated Damages: Single Contract Time

- *Replace this entire subsection, except for the heading, with the following subsection:*

The liquidated damages (LD) per Calendar Day* for failure to complete the Work on time as required by 00180.50(h) will be established using the following formula(s):

Liquidated Damages after the Final Completion Date:

$$\text{Liquidated Damages per Calendar Day} = 0.212 \times \frac{C}{T}$$

Liquidated Damages after the Substantial Completion Date:

50% of Final Completion Liquidated Damages

where C = the Contractor's Bid amount for the Contract

T = the number of Calendar Days between the date listed under 00180.50(h) in the Solicitation Documents and the Bid Opening date

* Calendar Day amounts are applicable when the Contract Time is expressed on the Calendar Day or fixed date basis.

(Wilsonville 2018)

00180.85(b)(2) Failure to Complete on Time; Liquidated Damages: Liquidated Damages: Multiple Contract Times

- *Delete this entire subsection.*

SECTION 00195 – PAYMENT

Comply with Section 00195 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00195.10 Payment for Changes in Materials Costs - *Replace this entire subsection, except for the heading, with the following subsection:*

Unless specifically identified in the Project-specific Special Provisions in a material specific escalation/de-escalation clause, no escalation/de-escalation clause will be in effect during the life of the Contract.

(Wilsonville 2018)

00195.50(a)(2) Progress Payments and Retained Amounts: Progress Payments: Value of Materials on Hand - *Replace this entire subsection, except for the heading, with the following subsection:*

No payment will be made for Materials on Hand.

(Wilsonville 2018)

00195.50(b) Progress Payments and Retained Amounts: Retainage - *Replace the paragraph that begins "The amount to be retained..." with the following paragraph:*

The amount to be retained from progress payments will be 5% of the value of Work accomplished, and will be retained in one of the forms specified in Subsection (c) below. No retainage will be withheld from Work performed as Force Account Work, escalation/de-escalation, bonuses, or other items decided by the Agency.

(Wilsonville 2018)

00195.50(c) Progress Payments and Retained Amounts: Forms of Retainage - *Replace this entire subsection, except for the heading, with the following subsection:*

Retainage will be deducted from progress payments and held by the Agency until final payment is made according to 00195.90, unless otherwise specified in the Contract.

The Agency will deposit the cash retainage withheld in an interest-bearing account in a bank, trust, company, or savings association for the benefit of the Agency, as provided by ORS 279C.560(4). Interest earned on the account shall accrue to the Contractor. Amounts retained and interest earned will be included in the final payment made according to 00195.90.

Any retainage withheld on Work performed by a Subcontractor will be released to the Contractor according to 00195.90(d).

(Wilsonville 2018)

00195.50(d) Progress Payments and Retained Amounts: Release of Retainage - *Replace this entire subsection, except for the heading, with the following subsection:*

As the Work progresses, the amounts to be retained under (b) of this Subsection are subject to reduction in the Engineer's sole discretion. Retainage reductions will be considered only as follows:

- When the Work is 97.5% or more completed, the Engineer may, without application by the Contractor, reduce the retained amount to 100% of the value of the Work remaining.
- When a Subcontractor has satisfactorily completed all of its Work, it may request release of retainage for that Work from the Contractor. The Contractor shall request reduction of retainage in the amount withheld for the Subcontractor's Work after certifying to the Agency that the Subcontractor's Work is complete, and that all contractual requirements pertaining to the Subcontractor's Work have been satisfied. Within 60 Calendar Days of the end of the month in which the Agency receives the Contractor's certification regarding the Subcontractor's Work, the Agency will either notify the Contractor of any deficiencies which require completion before release of retainage, or verify that the Subcontractor's Work complies with the Contract and release all retainage for that Work with the next scheduled progress payment. Within 10 Calendar Days of receipt of retainage, the Contractor shall pay to the Subcontractor all such retainage released except for latent defects or warranty.
- The Agency will only release retainage for satisfactorily completed portions of the Work represented by Pay Items in the Schedule of Items, or by Pay Items added by Change Order. Work not represented by a Pay Item, but which constitutes part of an uncompleted Pay Item, will not be regarded as satisfactorily completed Work for the purposes of this Subsection.

If retainage has been reduced or eliminated, the Agency reserves the right to protect its interests by retaining amounts from further progress payments at the rates provided in 00195.50(b). A determination of satisfactory completion of Pay Items or Work or release of retainage shall not be construed as acceptance or approval of the

Work and shall not relieve the Contractor of responsibility for defective Materials or workmanship or for latent defects and warranty obligations.

Retainage will be released with the scheduled progress payment after Agency has issued Final Acceptance of the project. Within 10 Calendar Days of receipt of retainage, the Contractor shall pay to each Subcontractor all such released retainage that pertains to the Work of that Subcontractor.

(Wilsonville 2018)

00195.60 Advance Allowance for Materials on Hand - *Replace this entire subsection, except for the heading, with the following subsection:*

The Agency will not make advance allowance for Materials on hand.

(Wilsonville 2018)

00195.70(b)(3) Payment under Terminated Contract: Termination for Public Convenience: All Other Work - *Replace the sentence that begins "The Agency will purchase..." with the following:*

The Agency will purchase material left on hand according to the following formula and conditions:

1. **Formula** – The Agency will apply the following formula in determining the Contractor’s allowance for Materials left on hand:

Contractor’s Actual Cost, plus 5% Overhead Allowance, but no markup for profit.

2. **Conditions** – The Agency will not purchase the Contractor’s Materials left on hand unless the Contractor satisfies the following conditions:

- Requests the Agency’s purchase of unused Materials;
- Shows acquisition of the Materials in accordance with 00160.10;
- Shows that the Materials meet Specifications; and
- Provides receipts, bills and other records of actual cost of Materials delivered to the designated delivery points.

(Wilsonville 2018)

00195.80 Allowance for Materials Left on Hand - *Delete this entire subsection:*

SECTION 00199 – DISAGREEMENTS, PROTESTS, AND CLAIMS

Comply with Section 00199 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00199.20(b) Protest Procedure: Written Notice - *Delete the phrase "on form 734-2887" from the first sentence.*

(Wilsonville 2018)

00199.40 Claim Decision; Review; Exhaustion of Administrative Remedies - *Replace the sentence that begins "The Engineer may determine..." with the following sentence:*

The Engineer may determine to skip the Step 1: City Engineer Review, in which case the claim or claims will advance to Step 2: Agency Level Review.

(Wilsonville 2018)

00199.40(b) Claim Decision; Review; Exhaustion of Administrative Remedies: Step 1: Region Level Review - *Replace this entire subsection with the following subsection:*

(b) Step 1: City Engineer Review - The Contractor shall request that the Engineer arrange a meeting with the City Engineer in order to present the denied or partially denied claim for formal review and discussion. The meeting will take place within 21 Calendar Days of the Agency's receipt of the request, or as otherwise agreed by the parties.

If the City Engineer determines that the Contractor must furnish additional information, records or documentation to allow proper evaluation of the claim, the City Engineer will schedule a second meeting, to be held within 14 Calendar Days, or as otherwise agreed by the parties, at which the Contractor shall present the requested information, records and documentation.

The City Engineer will provide a written decision to the Contractor within 30 Calendar Days of the last meeting.

If the Contractor does not accept the Step 1 decision, the Contractor may within 10 Calendar Days of receipt of the written decision, request in writing that the Engineer arrange a review at Step 2 (see (c) below).

(Wilsonville 2018)

00199.40(c) Claim Decision; Review; Exhaustion of Administrative Remedies: Step 2: Agency Level Review - *Replace this entire subsection, except for the heading, with the following subsection:*

The Contractor shall request a meeting with the City Attorney, to present the claim for final Agency review. The presentation will take place within 21 Calendar Days of the Agency's receipt of the Contractor's written request, or as otherwise agreed by the parties.

If the City Attorney determines that the Contractor must furnish additional information, records or documentation to allow proper analysis of the claim, the City Attorney will schedule a second meeting, to be held within 14 Calendar Days, or as otherwise agreed by the parties, at which the Contractor shall present the requested information, records and documentation.

The claim is subject to 00199.60, if not all of the records requested by the City Attorney were furnished.

The City Attorney will provide a written decision to the Contractor, subject to 00199.60, if applicable, regarding the claim within 30 Calendar Days of the final Step 2 meeting.

If the Contractor does not accept the Step 2 decision, the Contractor may, within 10 Calendar Days of receipt of the written decision, request in writing through the Engineer that the claim be advanced to Step 3 or 4 (see (d) and (e) below), as applicable. For purposes of determining which process to use for claims under Step 3 or 4 concerning a combination of additional compensation and Contract Time or for Contract Time only, the value of the claim or portion of the claim for Contract Time will be assumed to be the appropriate Liquidated Damages given in 00180.50 multiplied by the number of Calendar Days in question. If applicable, advancement of the claim is subject to the provisions of 00199.60 regarding waiver and dismissal of the claim or portions of the claim.

(Wilsonville 2018)

00199.60 Review of Determination Regarding Records - *Replace this entire subsection, except for the heading, with the following subsection:*

If not all of the records requested by the City Attorney under 00199.40(c) Step 2 were provided, then the City Attorney will determine:

- If the records are of the type described in 00170.07; and*
- If the records have not been maintained or the records, or access to the records, has not been provided to the Agency as required by 00170.07 and this Section; and*
- If the records are material and necessary for proper evaluation of part or all of the claim; and*
- The portions of the claim for which the records are material and necessary for proper evaluation.*

If the City Attorney makes the foregoing determinations, then all portions of the claim for which the City Attorney determined the records are material and necessary for proper evaluation are immediately waived and irrevocably dismissed.

Even if the records have not been maintained or the records, or access to the records, have not been provided to the Agency in a given instance, the City Attorney may determine that sufficient records have been provided for the Agency to properly evaluate the claim in that instance. If the City Attorney makes this determination, the claim or portions of the claim will not be waived or dismissed under this provision.

If the Agency's final determination is that the records are material and necessary for proper evaluation of part or all of the claim, then the claim or that portion of the claim for which the records are material and necessary is waived and irrevocably dismissed, unless the Contractor provides the records, or access to the records, to the City Attorney within 5 Calendar Days of the Agency's final determination. If the Contractor provides the records, or access to the records, within this time limit, the City Attorney will schedule a meeting with the Contractor within 14 Calendar Days or as otherwise agreed by the parties, to discuss the records.

The Agency's final determination that records are material and necessary for proper evaluation of part or all of the claim, and the Agency's final determination of the portions of the claim for which the records are material and necessary, shall be final and binding.

If the entire claim is waived and irrevocably dismissed pursuant to the Agency's final determination there will be no further decision by the Agency on the claim or further review of the claim under 00199.40 and the claim will not be eligible for mediation under 00199.50. If only portions of the claim are waived and irrevocably dismissed pursuant to the Agency's final determination, the City Attorney will provide a written decision to the Contractor regarding the remaining portions of the claim within 30 Calendar Days of the final Step 2 meeting, or the Agency's final determination regarding the records, whichever is later. There will be no further decision by the Agency on or further review under 00199.40 of the portions of the claim waived and irrevocably dismissed pursuant to Agency's final determination and those portions will not be eligible for mediation under 00199.50.

SECTION 00210 – MOBILIZATION

Comply with Section 00210 of the Standard Specifications

SECTION 00220 – ACCOMMODATIONS FOR PUBLIC TRAFFIC

Comply with Section 00220 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00220.02 Public Safety and Mobility - *Replace the bullet that begins "Do not impede the flow..." with the following bullet:*

- Do not stop or hold vehicles on the traveled way, at intersections, or other connecting roadways within the project limits for more than five (5) minutes.

Replace the bullet that begins "Use portable changeable message signs..." with the following bullet:

- Use portable changeable message signs to provide appropriate work zone information to the public. Place signs and display messages as directed or approved. When signs are in use, protect them according to 00225.46(b) and the "Portable Changeable Message Sign (PCMS) Installation" detail shown on ODOT Standard Drawing TM700.

Add the following bulleted list at the end of the bulleted list:

- When performing trench excavation or other excavation across or adjacent to a Traffic Lane on a roadway having a pre-construction posted speed greater than 35 mph, backfill and compact the excavation, install and compact surfacing, and open the roadway to traffic by the end of each work shift. Install a "BUMP" (W8-1-48) sign approximately 100 feet before the backfilled area and a "ROUGH ROAD" (W8-8-48) sign approximately 500 feet ahead of the "BUMP" sign. If this requirement is not met, maintain all necessary lane or shoulder closures and provide additional TCM, including flagging, at no additional cost to the Agency. Do not use temporary steel plating to reopen the roadway.
-
- On-street parking shall be restored at the end of shift, once backfill and compaction of the trench is completed. Steel plates, or other approved methods, will be required at apartment complex and business driveways to maintain the access according to 00225.40

(Wilsonville 2018)

00220.03(b) Work Zone Notification: Closures - *Replace the bullet that begins "Roads – A minimum..." with the following bullet:*

- **Roads** - A minimum of 28 Calendar days before closure. Obtain permission from the City of Wilsonville before closing any city street. Notify all affected emergency services, South Metro Area Rapid Transit (SMART), Wilsonville/West Linn school district, Canby school districts, First Student Transportation bus services, Laidlaw Educational Services school bus service, Republic Services, and US Postal Service in writing at least 14 days in advance of the street closure. No city street closure will be permitted until the Engineer approves it and the area is signed according to Section 00225.

(Wilsonville 2018)

Add the following subsection:

00220.03(c) Work Zone Notification: Width Restrictions

When narrowing the roadway to less than 22 feet for one lane between positive barriers or less than 28 feet for two lanes between positive barrier, notify the City of Wilsonville, and the Engineer, in writing, at least 28 days before the restriction takes effect. Include the reduced lane width dimension of each stage and the anticipated duration of the reduction. The reduction will not be permitted until the Engineer approves the request and the area is adequately signed according to the TCP and Sections 00220 and 00225.

(Wilsonville 2018)

00220.40(e)(1) General Requirements: Lane Restrictions: Closed Lanes - *Replace bulleted list with the following bulleted list:*

a. Major Roadways – Wilsonville Road, Elligsen Road, Parkway Center Drive (Town Center Loop to Elligsen Road), 95th Avenue, Boones Ferry Road (Bailey Street to Peyton Lane), Boeckman Road, Canyon Creek Road, Town Center Loop, Barber Street, and Kinsman Road.

- **Normal Work Hours:** Daily, Monday through Friday between 9:00 a.m. and 3:00 p.m.
- **Night Work Hours:** Engineer Approval Required
 - Daily, Monday through Friday between 7:00 p.m. and 5:00 a.m.
 - Saturday between 12:00 a.m. and 5:00 a.m.
- **Weekend Hours:** Saturday between 9:00 a.m. to 3:00 p.m. (Engineer Approval Required)

b. All Other Roadways

- **Normal Work Hours:** Daily, Monday through Friday between 7:00 a.m. and 8:00 p.m.
- **Night Work Hours:** Engineer Approval Required
 - Daily, Monday through Friday between 8:00 p.m. and 7:00 a.m.
 - Saturday between 12:00 a.m. and 7:00 a.m.
- **Weekend Hours:** Saturday between 9:00 a.m. to 3:00 p.m. (Engineer Approval Required)

(Wilsonville 2018)

00220.40(e)(2) General Requirements: Lane Restrictions: Opened Lanes - *Add the following bulleted list to the end of the bulleted list:*

- *Martin Luther King Jr. Day on the third Monday in January*
- *President's Day on the third Monday in February*
- *Veterans Day on November 11*
- *Thanksgiving Holiday on the fourth Friday in November*

SECTION 00225 – WORK ZONE TRAFFIC CONTROL

Comply with Section 00225 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00225.05 Traffic Control Plan - *Add the following sentence after the sentence that begins "The Contractor will be allowed...":*

If an Agency TCP is not provided, the Contractor shall provide a TCP in accordance with the requirements of 00225.

(Wilsonville 2018)

00225.05(b) Traffic Control Plan: Contractor Modified Traffic Control Plan - Add the following paragraph at the end of this subsection:

If the Contractor will be using a modified Agency TCP or a Contract provided TCP, the Engineer may modify the TCM and require the Contractor to provide an updated TCP based on field conditions. Changes to the TCP shall be in accordance with 00225.01(c). No additional measurement or payment shall be made for Agency changes to a Contractor provided or modified TCP.

(Wilsonville 2018)

00225.40 General - Add the following paragraphs to the end of this subsection:

The Contractor shall post notice of construction for each affected resident a minimum of 48 hours prior to the disruption or shutdown of any driveway. Notices shall provide information regarding the dates of construction affecting their access.

The Contractor shall post No Parking signs on type II barricades a minimum of 48 hours prior to the shutdown of on-street parking for the Contractor's operations. On-street parking shall be maintained at all times except in the near vicinity of the Contractor's active construction zone. Once backfilled, the Contractor shall remove No Parking signs. Notices shall provide information regarding the dates of construction affecting the on-street parking. Driveways for apartment complexes shall not be closed for more than one (1) hour in any two (2) hour period. See section 00220.02 for steel plating requirements.

(Street Lighting 2020)

00225.80 Measurement - Add the following paragraph to the end of this subsection:

Work under this Section for this project will be not be measured. See 00225.90(c) Method "C" – Incidental Basis.

(Street Lighting 2020)

00225.90 Payment

00225.90(c) Method "C" – Incidental Basis – Add the following paragraph to the end of this subsection:

Work under this Section for this project will be paid by the Method "C" – Incidental Basis

SECTION 00280 – EROSION AND SEDIMENT CONTROL

Comply with Section 00280 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00280.00 Scope - Replace the paragraph that begins "This work also consists..." with the following paragraph:

This work also consists of providing temporary erosion and sediment control (ESC) measures and furnishing, installing, moving, operating, maintaining, inspecting, and removing ESC throughout the Project area according to the standard drawings, Agency standard erosion and sediment control notes, the erosion and sediment control plan (ESCP) for the Project, these Specifications, or as directed, until the site is permanently stabilized.

(Wilsonville 2018)

00280.03 Standards - *Replace the phrase “ODOT “Erosion and Sediment Control” manual.” with the following:*

Clackamas County Water Environment Services “Erosion Prevention and Sediment Control Planning and Design Manual”. In the case of conflict between the manual referenced herein and 00280, the more stringent standard shall apply as determined by the Engineer.

(Wilsonville 2018)

00280.04 Erosion and Sediment Control Plan on Agency Controlled Lands - *Replace the paragraph that begins “During inactive periods longer...” with the following paragraph:*

During inactive periods longer than 7 calendar days, keep the ESCP on-site at all times and provide a copy to the Engineer to retain.

(Wilsonville 2018)

00280.05 Erosion and Sediment Control Plan on Non-Agency Controlled Lands - *Replace the bullet that begins “A Contractor-developed ESCP...” with the following bullet:*

- A Contractor-developed ESCP for each unique site covered under a DEQ NPDES 1200C Permit.

(Wilsonville 2018)

00280.14(a) Erosion Prevention Materials: Plastic Sheeting - *Delete the bullet that begins “Sand Bags – Sand bags meeting...”.*

(Wilsonville 2018)

00280.16(a) Sediment Control Materials: Construction Entrances - *Replace the bullet that begins “Aggregate – Clean, durable...” with the following bullet:*

- **Aggregate** – Clean, durable, open graded angular aggregate sized between 3 inches maximum and 1 inch minimum with less than 5 percent of the material, by weight, passing the No. 4 sieve.

(Wilsonville 2018)

00280.16(c) Sediment Control Materials: Sediment Fence - *Replace the bullet that begins “Posts – Untreated wood...” with the following bullet:*

- **Posts** – Untreated wood posts a minimum 1 ½ inch x 1 ½ inch x 48 inch, stitched.

(Wilsonville 2018)

00280.16(e) Sediment Control Materials: Sediment Barriers - *Delete the bullet that begins “Type 4: Sand Bags – Sand bags meeting...”.*

(Wilsonville 2018)

00280.16(i) Sediment Control Materials: Concrete Washout - *Replace the bullet that begins “Straw Bales – Standard rectangular...” with the following bullet:*

- **Straw Bales** – Use of straw bales are not permitted.

(Wilsonville 2018)

00280.16(j) Sediment Control Materials: Floating Turbidity Barrier - *Delete this entire subsection.*

(Wilsonville 2018)

00280.30 Erosion and Sediment Control Manager - *Replace the sentence that begins “If the Agency’s NPDES 1200-CA...” with the following:*

Designate and provide an Erosion and Sediment Control Manager (ESCM) with the following minimum qualifications:

- Experience in all major disciplines of highway construction.
- Knowledgeable in principles of and practice of ESC.
- Skilled in assessing site conditions and effectiveness of ESC used.
- Successful completion of ESC formal training sponsored by the Agency or acceptable to the Engineer.
- Responsible participation in construction of at least one Agency project with ESC.
- Authority to immediately mobilize necessary personnel to correct and modify ESC as required.

(Wilsonville 2018)

00280.42(a) Stabilization: Soil Exposure Limitations - *Add the following bulleted list to the end of the bulleted list:*

- **Within the City of Wilsonville (May 1 through September 30)** - Stabilize all areas within seven days of exposure.
- **Within the City of Wilsonville (October 1 through April 30)** - Stabilize all areas within four days of exposure.

(Wilsonville 2018)

00280.48 Emergency Materials - *Delete the sentence that begins “A list of emergency...”.*

(Wilsonville 2018)

00280.62 Inspection and Monitoring: Rainfall - *Replace the paragraph that begins “If a permit noncompliance...” with the following paragraph:*

If a permit noncompliance or serious water quality issues occur verbally report to the Engineer immediately and submit a written report within 5 calendar days.

(Street Lighting 2020)

00280.90 Payment – *replace with the following:*

Incidental Basis – When the contract schedule of items does not indicate payment for Erosion and Sediment Control, all Erosion and Sediment Control will be considered incidental and no separate payment will be made.

SECTION 00290 – ENVIRONMENTAL PROTECTION

Comply with Section 00290 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00290.20(c)(3)(b.) Waste, Hazardous Waste, and Hazardous Substances: Waste Management: Reuse, Recycle, and Dispose of Materials: Woody Matter - *Replace the entire subsection with the following subsection:*

Woody matter may not be burned. Woody matter shall be chipped to a size of nor more than 3 inches in any direction then uniformly spread over selected landscape areas, as directed, in loose layers not more than 3 inches thick. Burying wood, stumps, or other woody material is not allowed.

(Wilsonville 2018)

00290.20(c)(3)(d.) Waste, Hazardous Waste, and Hazardous Substances: Waste Management: Reuse, Recycle, and Dispose of Materials: Concrete and Masonry - *Add the following bullet to the end of the bullet list:*

- Broken pieces do not bridge over the areas or create voids during backfill and compaction.

(Wilsonville 2018)

00290.30(c)(3) Pollution Control: Air Pollution Control Measures: Burn Restrictions - *Replace the entire subsection with the following subsection:*

Burning will not be allowed in the City of Wilsonville with exception of buildings intended for demolition may be burned by the local fire department for training purposes provided that all hazardous substances have been removed from the building before burning. Contact the local fire department for applicable restrictions.

(Wilsonville 2018)

00290.32 Noise Control - *Replace the bullet that begins "Do no perform construction..." with the following bullet:*

Do not perform construction within 1,000 feet of an occupied dwelling on Sundays, legal holidays, or between the hours of 9:00 p.m. and 7:00 a.m. on other days, without the approval of the Engineer.

(Wilsonville 2018)

00290.34 Protection of Fish and Fish Habitat - *Add the following paragraph:*

Meet with the Agency Natural Resource Specialist, Project Manager, and inspector on site, before moving equipment on-site or beginning any work near sensitive biological sites, to ensure that all parties understand the locations of such sites and the measures that are required to be taken to protect them.

(Street Lighting 2020)

00290.90 Payment – *replace with the following:*

Incidental Basis – When the contract schedule of items does not indicate payment for Environmental Protection, all Environmental Protection will be considered incidental and no separate payment will be made.

SECTION 00310 – REMOVAL OF STRUCTURES AND OBSTRUCTIONS

Comply with Section 00310 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00310.41(c) Removal Work: Drainage Structures - *Replace the sentence that begins "Remove drainage structures..." with the following sentence:*

Remove drainage structures, such as box culverts, down to a depth 4 feet below ground, slope or waterway bed and rubblize and/or perforate structure base to prevent entrapment of water.

(Wilsonville 2018)

Add the following subsection:

00310.45 Resurfacing in Connection with Removal

Perform resurfacing in connection with removal of structures and obstructions, unless otherwise specified, according to 00495.

SECTION 00950 – REMOVAL OF ELECTRICAL SYSTEMS

Comply with Section 00950 of the Standard Specifications modified as follows:

(Wilsonville 2018)

00950.40 General - *Add the following paragraph:*

Where applicable, coordinate all electrical work with Portland General Electric (PGE). Obtain all electrical permits at no expense to the Agency and schedule inspections with county electrical inspectors. Supply copies of the permit to the Engineer prior to start of electrical work.

SECTION 00960 - COMMON PROVISIONS FOR ELECTRICAL SYSTEMS

Comply with Section 00960 of the Standard Specifications modified as follows:

(Street Lighting LED Conversion 2020)

00960.01 Regulations, Standards, and Codes - *Replace the paragraph that begins "Wherever reference is made..." with the following paragraph:*

Use the code, order, or standard in effect on the date the Project is advertised unless otherwise shown.

Add the following subsection:

(ODOT 2020)

00960.02 Equipment List and Drawings - *Replace this subsection with the following subsection:*

00960.02 Equipment List and Drawing Submittals - Within 30 Calendar Days after execution of the Contract, submit two copies of the Blue Sheets (see 00160.00) and two copies of the Green Sheets (see 00160.00) according to 00150.37 for all materials the Contractor proposes to install. Blue Sheets and Green Sheets will be made available to the Contractor by the Engineer.

Fill out the Blue Sheets and Green Sheets based on the Project requirements. Check off all pre-approved items to be used on the Project. When proposing write-in items, check off the box under "Write-in items" and follow

the instructions. Use the current version of the Blue Sheets and Green Sheets that is in effect on the date of Advertisement.

Within 14 Calendar Days after receipt of submittals, the Engineer will review the submittals and designate them in writing as "approved", "approved as noted", or "returned for correction". Do not proceed with the Work before receiving written approval of the submittals from the Engineer.

No luminaire fixture substitutions will be allowed.

Add the following subsection:

(ODOT 2020)

00960.03 Permits – Provide the Engineer with copies of all required electrical permits prior to performing any work.

(Street Lighting LED Conversion 2020)

00960.30 Licensed Electricians

Comply with Section 00960.30 of the Standard Specifications.

Add the following subsection:

(Street Lighting LED Conversion 2020)

00960.31 Journeyman Lineman –

Every person engaged in work on NESC street lights or work within the NESC Communications Worker Safety Zone (CWSZ) or Supply Space shall be certified Journeyman Linemen who has successfully completed the apprenticeship program of the Oregon State Apprenticeship and Training Council, and are thus capable of performing as Qualified Workers as described in 29 CFR 1910.269. Submit documentation demonstrating Contractor's Qualified Worker training program or employee certifications to the Engineer prior to performing any work. Contractor employees who are not appropriately certified or licensed will not be allowed to perform work.

(ODOT 2020)

00960.41 Excavation: – *Replace this subsection with the following subsection:*

00960.41 Excavation:

Remove and replace sidewalks, curbs, paved surfaces, and other materials as needed. Replace and finish all surfaces to correspond with the existing surfaces. Restore all disturbed landscaping and underground systems to original condition.

Excavate trenches, foundations, and junction boxes to locations, Neat Lines, grades and Cross Sections as shown or as established or approved. Furnish, place, and remove any shoring required to prevent caving of walls.

Dispose of all excavated Materials according to 00290.20.

(ODOT 2020)

00960.44 Junction Boxes - *Delete this subsection.*

(ODOT 2020)

00960.45 Cable and Wire - *Delete this subsection.*

(ODOT 2020)

00960.46 Wiring Practices - *Delete this subsection*

(ODOT 2020)

00960.47 Wood Poles - *Delete this subsection.*

(ODOT 2020)

00960.48 Coating - *Delete this subsection.*

(ODOT 2020)

00960.49 Electrical Service - *Delete this subsection.*

Add the following subsection:

(ODOT 2020)

00960.60 Maintenance, Operation and Power Costs - The Agency will continue normal maintenance and operations of the existing systems including the furnishing of electrical energy. Do not use for construction purposes electrical energy billed to the Agency or other agencies.

Add the following subsection:

(ODOT 2020)

00960.71 As-Built Plans - Upon completion of the installation, submit a red-lined copy of the original Plans noting all changes made. The information furnished shall include all modifications made and shall represent the material installed and in operation. It shall be sufficiently detailed to enable maintenance forces to replace or repair any part of the Project under routine or emergency maintenance by direct reference.

SECTION 00962 - METAL ILLUMINATION AND TRAFFIC SIGNAL SUPPORTS

Comply with Section 00962 of the Standard Specifications modified as follows:

(ODOT 2020)

00962.46(j)(2)(d) Final Tightening - *In the table, replace the words "ASTM A325" with the words "ASTM F3125, Grade A325"*

(ODOT 2020)

00962.46(j)(3) Bolt Inspection - *Replace the sentence that begins "The installation will be rejected if..." with the following sentence:*

The installation will be rejected if the geometry does not satisfy the requirements of 02560.05.

SECTION 00970 - HIGHWAY ILLUMINATION

Comply with Section 00970 of the Standard Specifications modified as follows:

00970.45 LED Luminaires - *Replace the sentence that begins "Install LED luminaires as shown ..." with the following:*

(Street Lighting LED Conversion 2020)

Group LED Installation - Work performed under this process shall be done on a block by block basis in a geographically successive order using project plans. The work involves removing an existing HPS luminaire and photocell, repairing a pole and arm as necessary, installing a new LED luminaire and photocell and repeating the process until all of the identified HPS luminaires are replaced. All LED luminaires shall be installed according to the manufacturer's instructions. After replacing the HPS luminaire with LED luminaires the Contractor will test operation of the streetlights. Work includes, but may not be limited to:

1. Coordinate and schedule any needed power disconnections and reconnections with PGE for pole replacement locations. Other fixture replacements are expected to be performed while the system is energized.
2. Provide traffic control.
3. Identify the pole location and verify map and pole number, update database if needed.
 - a. If luminaire is already LED, make a note to report to City representative and skip to the next location.
 - b. If luminaire arm is missing or incompatible with new luminaire, make a note to report to City representative and skip to the next location.
4. Prepare and test LED luminaire and photocontrol for installation. Scan LED luminaire bar code.
5. Perform safety check:
 - a. Check for primary and secondary power lines and transformer if present to determine the best approach for the luminaire and luminaire arm.
 - b. Check tree/vegetation. If tree vegetation is obstructing the streetlight, make a note to report to City representative and skip to the next location.
 - c. Check supply line to the streetlight ensuring the drip loop is not touching any other wires or equipment. If touching other equipment or violating NESC rule make adjustment if necessary, note work done in daily report form.
6. Check luminaire arm for structural integrity (e.g., if bolts are loose, tighten the bolts) and compatibility with replacement fixture. If luminaire arm and/or wind rod is damaged, non-repairable or incompatible make a note to report to City representative and skip to the next location.
7. Check line voltage to the luminaire, update database if necessary.
8. Remove existing HPS luminaire.
9. If pole replacement has been directed by City, remove existing pole and install new pole at same location utilizing existing junction box.
10. Install LED luminaire and Photocontrol.
11. Confirm successful operation of the luminaire.
12. Note wattage of removed HPS luminaire and LED replacement model. Prepare and store removed luminaire for recycling.
13. Utilize a main vehicle (bucket truck) equipped with Type D Arrow Board for mobile operation.
14. Comply with applicable environmental laws and regulations regarding handling of hazardous substances and take appropriate measures to ensure the safe handling of such materials as may be encountered in the performance of the Contract.
15. Reinstall existing signs on new poles as noted in the Plans.

Add the following subsection:

(Street Lighting LED Conversion 2020)

00970.47 House Side Shields – Install house side shields (estimated quantity, 100) on LED luminaires as shown or directed in the project plans and according to manufacturer requirements.

(Street Lighting LED Conversion 2020)

00970.80 Measurement - *Replace the sentence that begins "No measurement of quantities..." with the following:*

No measurement of quantities will be made for Work performed under this Section, except for the pay item "House Side Shields". House side shields will be measured on the unit basis, for each luminaire where a house side shield system is required.

(Street Lighting LED Conversion 2020)

00970.90 Payment - *Replace the sentence that begins "Item (b) includes all poles and arms..." with the following:*

Add the following pay item:

- (f) House Side Shields.....Each

Add the following sentences:

Item (b) includes all poles, arms and pole foundations, if required, for lighting poles.

Item (c) includes furnishing and installing all luminaires, lamps, and ballasts, and installing house side shields where directed.

Item (f) includes furnishing all house side shields and delivering to the City of Wilsonville. Coordinate delivery with City inspector.

SECTION 02560 - FASTENERS

Comply with Section 02560 of the Standard Specifications modified as follows:

Add the following subsection:

(ODOT 2020)

02560.05 Geometry - Bolt or rod length used shall be such that the end of the bolt or rod extends beyond or is at least flush with the outer face of the nut when properly installed.

(ODOT 2020)

02560.10(b) Nuts– *Replace this subsection, except for the subsection number and title, with following:*

Nuts for carbon steel bolts shall conform to the requirements of the following, or equivalent:

Plain (Noncoated) Bolts:

- 1/4" - 1 1/2" - ASTM A563, Grade A, hex
- Over 1 1/2" - 4" - ASTM A563, Grade A, heavy hex

Galvanized Bolts:

- All - ASTM A563, Grade A, C, D, or DH, heavy hex

(ODOT 2020)

02560.20(a) Bolts – *Replace this subsection, except for the subsection number and title, with following:*

High-strength bolts used in noncoated weathering steel connections shall be Type 3. High-strength bolts shall conform to the requirements of the following:

Heavy Hex Head:

- ASTM F3125, Grade A325

Twist-Off:

- ASTM F3125, Grade F1852

(ODOT 2020)

02560.20(b) Nuts – *Replace this subsection, except for the subsection number and title, with following:*

Nuts for high-strength bolts shall conform to the requirements of the following, or equivalent:

Type 1 Plain (Noncoated) Bolts:

- All - Heavy hex ASTM A563, Grade C, D, or DH

Type 1 Galvanized Bolts:

- All - Heavy hex ASTM A563, Grade DH

Type 3 Bolts:

- All - Heavy hex ASTM A563, Grade C3 or DH3

(ODOT 2020)

02560.20(f) Lock-Pin and Collar Fasteners - *Delete this subsection.*

(ODOT 2020)

02560.30(c) Nuts – *Replace this subsection, except for the subsection number and title, with following:*

Nuts for tie rods, anchor bolts, and anchor rods shall conform to the requirements of the following, or equivalent:

Plain Steel Tie Rods, Anchor Bolts, and Anchor Rods:

- All - Heavy hex ASTM A563, Grade A

Galvanized Steel Tie Rods, Anchor Bolts, and Anchor Rods:

- All - Heavy hex ASTM A563, Grade A, C, D, or DH

Plain Or Galvanized High-Strength Tie Rods, Anchor Bolts, or Anchor Rods:

- All - Heavy hex ASTM A563, Grade DH

(ODOT 2020)

02560.40 Galvanizing and Coating - *Replace this subsection with the following subsection:*

(ODOT 2020)

02560.40 Galvanizing and Coating:

(a) High Strength Fasteners - When specified, hot-dip galvanize Grade A325 fasteners or mechanically deposit zinc to Grade F1852 fasteners according to ASTM F3125.

(b) Tie Rods, Anchor Bolts, Anchor Rods and Carbon Fasteners - Hot-dip galvanize, tie rods, anchor bolts, anchor rods, nuts, washers and carbon fasteners according to ASTM F2329 as appropriate to the product.

Overtap nuts for galvanized fasteners, galvanized tie rods, galvanized anchor bolts, and galvanized anchor rods according to ASTM A563.

Measure the zinc thickness on the wrench flats or top of bolt head of galvanized bolts and on the wrench flats of galvanized nuts.

(c) Direct Tension Indicators – When specified, apply mechanically deposited zinc according to ASTM F959.

(d) Repair of Hot-Dip Galvanizing - Repair damaged hot-dip galvanizing according to ASTM A780. Minimum zinc content for Method A2 is 94 percent on the dry film.

(ODOT 2020)

02560.60(b) Other Test Requirements - *In the paragraph that begins "Wedge test all bolts according..." replace the words "AASHTO M 164 (ASTM A325)" with the words "ASTM F3125, Grade A325 or Grade F1852".*

(ODOT 2020)

02560.70 Lubricating Fasteners - *Replace this subsection, except for the subsection number and title, with following:*

Furnish all galvanized and coated fasteners with a factory applied commercial water-soluble wax that contains a visible dye of a color that contrasts with the color of galvanizing or coating. Black fasteners shall be "oily" to the touch when installed.

Field lubricate galvanized bolts in tapped holes, galvanized anchor rods, and galvanized tie rods with a lubricant from the QPL. Apply lubricant to threads and to bearing surfaces that will turn during installation.

Protect fasteners from dirt and moisture at the Project site.

Retest heavy hex head fasteners that do not pass the field rotational capacity test. Clean and relubricate heavy hex head fasteners with a lubricant from the QPL prior to retesting.

Relubrication of Twist-Off fasteners is not permitted.

SECTION 02926 - HIGHWAY ILLUMINATION MATERIALS

Comply with Section 02926 of the Standard Specifications modified as follows:

(ODOT 2020)

02926.54(c) Submittals - Replace the paragraph that begins "Within 21 Calendar Days..." with the following paragraph:

Within 21 Calendar Days after receipt of submittals, the Engineer will review the submittals and designate them in writing as "approved", "approved as noted", or "returned for correction". Do not begin LED luminaire installation before receiving written approval of submittals from the Engineer.

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Appendix A – Plans and Details

- Plans and details bound separately -

INDEX OF DRAWINGS

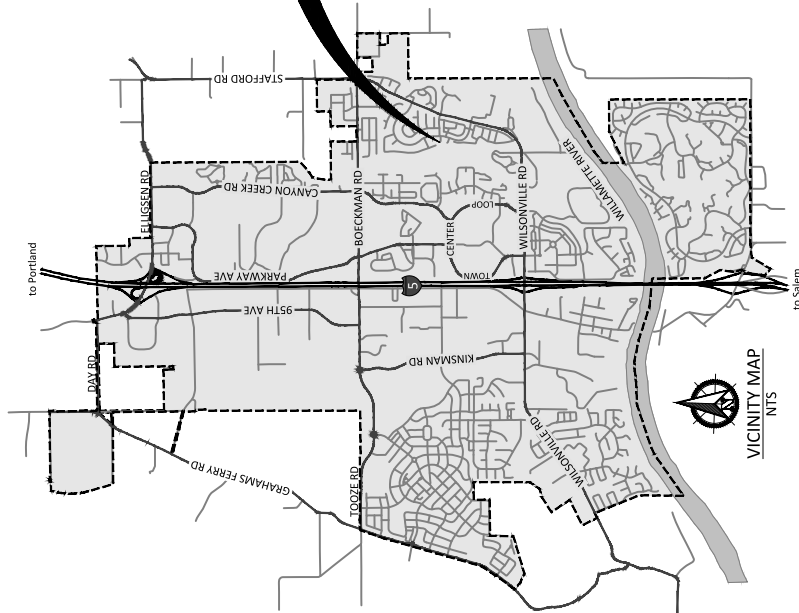
GENERAL		INDEX OF DRAWINGS AND VICINITY MAP
1	G-1	GENERAL NOTES
2	G-2	
CIVIL		LUMINAIRE TEMPLATES
3	C-1	TYPICAL ARTERIAL
4	C-2	TYPICAL COLLECTOR
5	C-3	PHASE 1
6-19	C-4/17	WILSONVILLE ROAD POLE REPLACEMENT
20	C-18	

CITY OF WILSONVILLE, OREGON

Street Lighting LED Conversions

Phase 1

CIP #4722



OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE OREGON UTILITY NOTIFICATION CENTER AT 503-232-1987.

REVISIONS



City of Wilsonville
Engineering Division
2929 SW Town Center Loop East
Wilsonville, OR 97070
Phone 503-882-4960

WILSONVILLE OREGON
Date: July 2020
Scale: AS SHOWN
Designed By: AJR
Drawn By: AJR
Checked By: JMS

STREET LIGHTING LED CONVERSIONS
COVER SHEET

CIP # 4722
PROJECT #
SHEET # 1 of 20

Project Contacts

Project Manager
Martin Montalvo, P.E.
Project Engineer
503-570-1560 (office)
montalvo@c.wilsonville.or.us

Utility Contacts

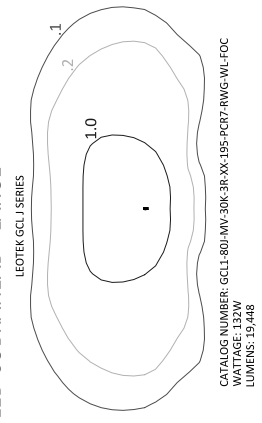
Street Lighting
Portland General Electric
Aroun Xay/banue
503-845-7477 (office)
Kevin Muck
360-281-8851 (office)

Power
Portland General Electric
Service Desk
503-323-6700

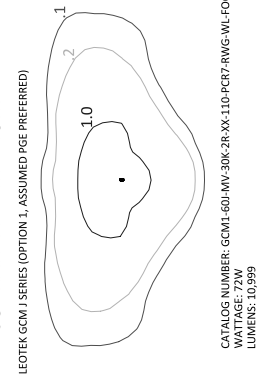


ISO-FOOTCANDLE TEMPLATES* FOR PROJECT LUMINAIRES

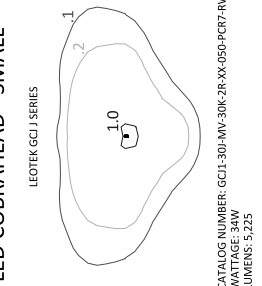
LED COBRAHEAD - LARGE



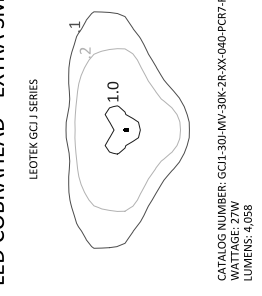
LED COBRAHEAD - MEDIUM



LED COBRAHEAD - SMALL



LED COBRAHEAD - EXTRA SMALL



GENERAL NOTE

* ISO-FOOTCANDLE TEMPLATES ARE COMPOSED OF LINES OF EQUAL ILLUMINANCE (AT 0.1 fc, 0.2fc, and 1.0 fc) SURROUNDING A SINGLE LUMINAIRE.

1. All cobra head fixtures shall be the standard gray finish "GY" unless otherwise noted on following sheets.

REVISIONS



REVISIONS 9-30-21

CITY OF WILSONVILLE
 Engineering Division
 29795 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-682-4960

WILSONVILLE OREGON

Date: July 2, 2020
 Scale: AS SHOWN
 Designed By: HCL
 Drawn By: HCL
 Checked By: JMS

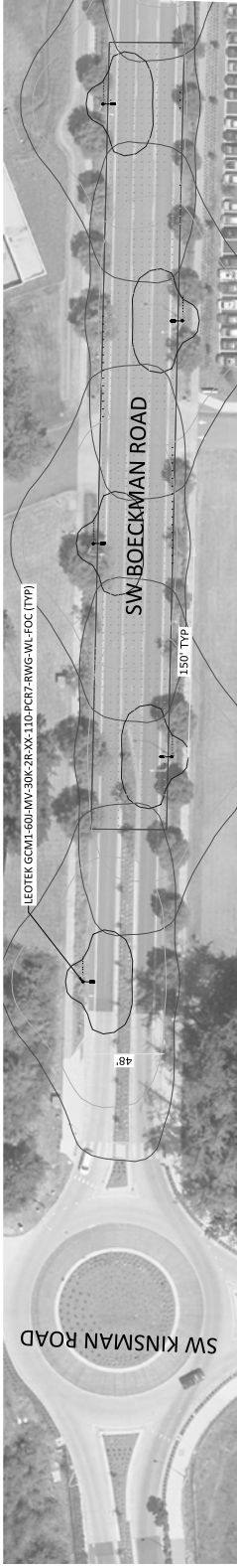
STREET LIGHTING LED CONVERSIONS
 LUMINAIRE TEMPLATES

CIP # 4722
 PROJECT #
 SHEET # 3 of 20



SCALE IN FEET

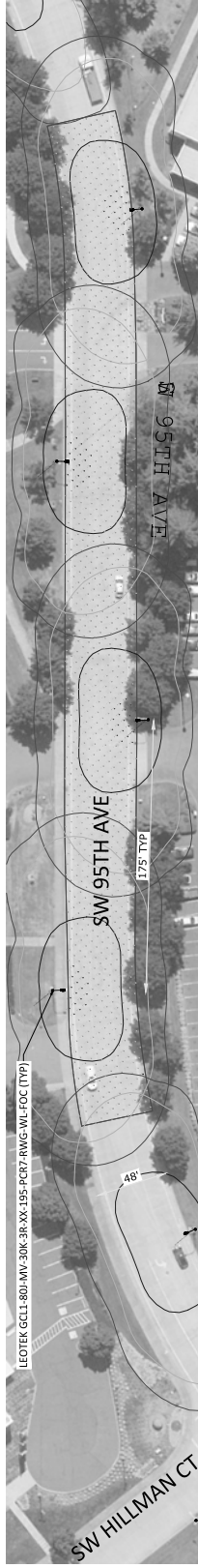
TYPICAL CONDITION A1: 46'-50' ARTERIAL W/ COBRAHEADS ON BOTH SIDES AT 35' MH



RECOMMENDED REPLACEMENT: 72W LEOTEK GCM1

PLAN
SCALE: 1"=40'

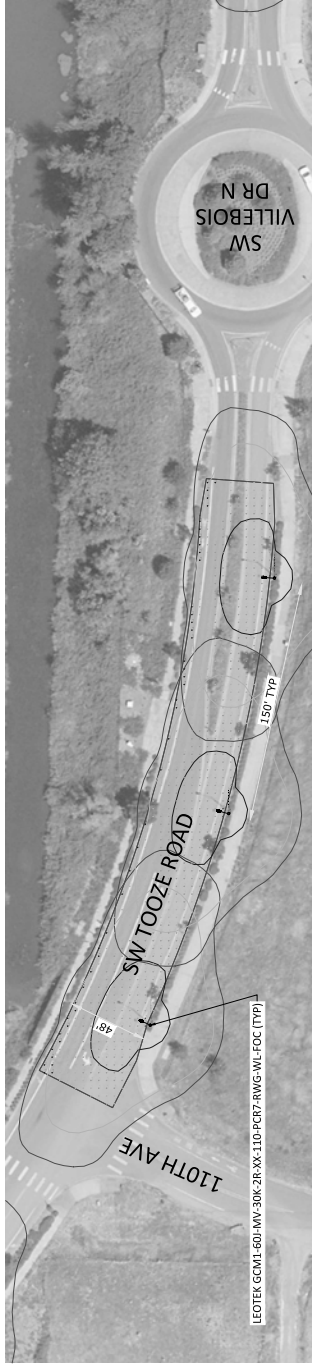
TYPICAL CONDITION A2: 46'-50' ARTERIAL W/ COBRAHEADS ON BOTH SIDES AT 30' MH



RECOMMENDED REPLACEMENT: 132W LEOTEK GCL1

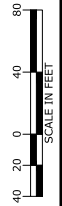
PLAN
SCALE: 1"=40'

TYPICAL CONDITION A3: 46'-50' ARTERIAL W/ COBRAHEADS ON ONE SIDE AT 30' MH



RECOMMENDED REPLACEMENT: 72W LEOTEK GCM1

PLAN
SCALE: 1"=40'



STREET LIGHTING LED CONVERSIONS
REPRESENTATIVE ARTERIALS

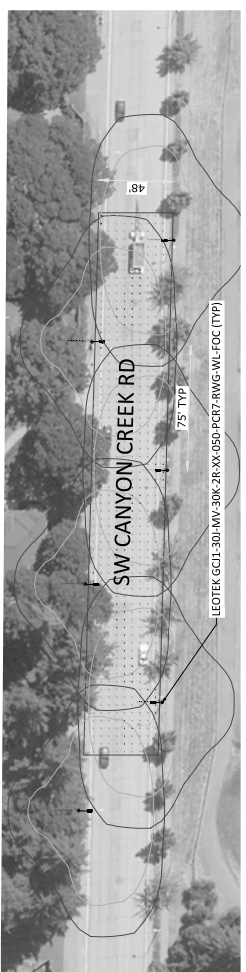
DATE: JULY 2020
SCALE: AS SHOWN
DESIGNED BY: HCL
DRAWN BY: HCL
CHECKED BY: JMS

CITY OF WILSONVILLE
Engineering Division
2929 SW Town Center Loop East
Wilsonville, OR 97070
Phone 503-682-4960

REVISIONS

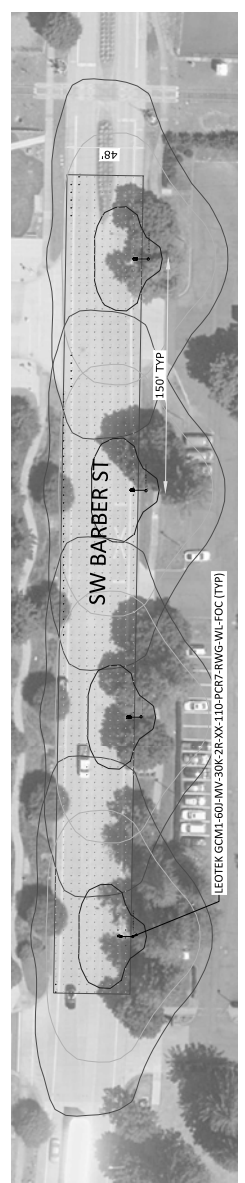
PROJECT # 4722
SHEET # 4 of 20

TYPICAL CONDITION C1: 46'-50' COLLECTOR W/ COBRAHEADS ON BOTH SIDES AT 35' MH



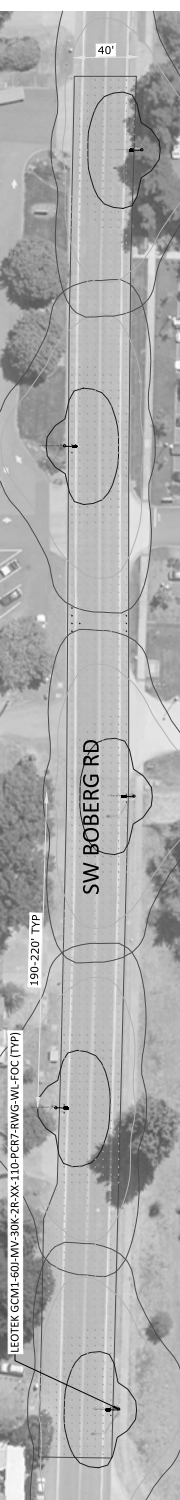
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SCALE: 1"=40'

TYPICAL CONDITION C2: 46'-50' COLLECTOR W/ COBRAHEADS ON ONE SIDE AT 35' MH



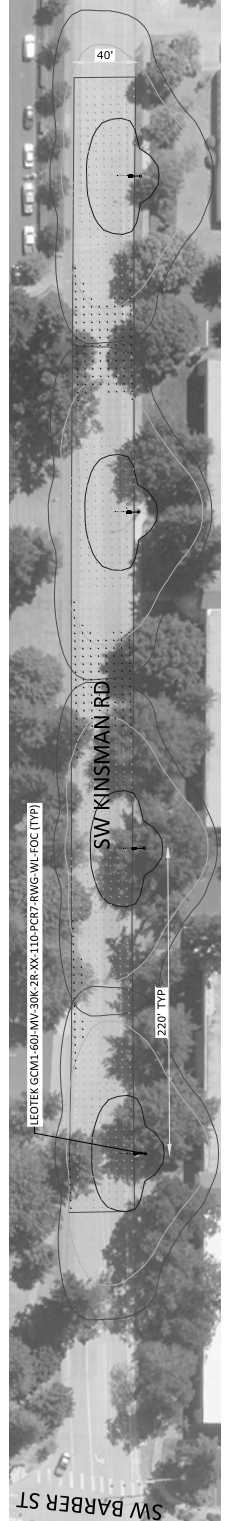
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SCALE: 1"=40'

TYPICAL CONDITION C3: 40' COLLECTOR W/ COBRAHEADS ON BOTH SIDES AT 30' MH



RECOMMENDED REPLACEMENT: 72W LEOTEK GCM1
SCALE: 1"=40'

TYPICAL CONDITION C4: 40' COLLECTOR W/ COBRAHEADS ON ONE SIDE AT 30' MH



RECOMMENDED REPLACEMENT: 72W LEOTEK GCM1
SCALE: 1"=40'



NO.	DATE	DESCRIPTION



City of Wilsonville
Engineering Division
2929 SW Town Center Loop East
Wilsonville, OR 97070
Phone 503-482-4900

WILSONVILLE
OREGON
Date: July 2020
Scale: AS SHOWN
Designed By: HCL
Drawn By: HCL
Checked By: HMG

STREET LIGHTING LED CONVERSIONS
REPRESENTATIVE COLLECTORS

PROJECT # 4722
SHEET # 5 of 20



95TH AVENUE Bockman Road to Boones Ferry Road						
NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE	QUANTITY
1	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617723.803	617618.1978	46
2	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617640.313	617302.956	
3	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617634.34	617139.8041	
4	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617548.325	616887.2769	
5	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617548.878	616858.4728	
6	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617544.28	616658.1821	
7	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617608.65	616270.7167	
8	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617613.321	616229.3791	
9	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617462.25	616071.089	
10	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617685.733	615863.3736	
11	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617692.409	615743.7142	
12	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617720.279	615569.9965	
13	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617668.397	615015.2838	
14	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617761.205	614876.0036	
15	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617693.235	614724.6883	
16	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617779.141	614575.1273	
17	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617711.587	614422.5331	
18	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617786.403	614329.5388	
19	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617712.382	614118.9449	
20	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617782.033	613964.9019	
21	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617701.876	613767.8644	
22	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617772.667	613612.1559	
23	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617695.471	613457.4473	
24	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617766.284	613388.4685	
25	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617885.616	613108.3632	
26	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617759.973	612958.3724	
27	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617678.93	612809.3844	
28	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617750.624	612600.0164	
29	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617672.433	612456.5148	
30	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617745.187	612299.7115	
31	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617685.617	612158.5604	
32	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617737.955	611999.8681	
33	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617697.754	611861.0292	
34	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617602.338	611668.4029	
35	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617750.4	611668.1273	
36	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617930.447	611664.3801	
37	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7618109.307	611661.9905	
38	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617635.108	611226.2382	
39	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617831.596	611332.6289	
40	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617493.516	611245.456	
41	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617413.823	611056.5689	
42	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617236.036	610979.898	
43	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617346.873	610844.3736	
44	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617127.215	610667.4127	
45	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617214.296	610476.0112	
46	95th Ave	Minor Arterial	132W LOTK LED COBRA GCL1	7617125.49	610349.9203	

FIXTURE QUANTITIES		
REPLACEMENT FIXTURE	QUANTITY	
132W LOTK LED COBRA GCL1	46	

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

REVISIONS



City of Wilsonville
 Engineering Division
 2929 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-882-4960



Date: July 2020
 Scale: AS SHOWN
 Designed By: AIR
 Drawn By: AIR
 Checked By: JMS

95TH AVENUE
 FIXTURE REPLACEMENT



CIP # 4722
 PROJECT #
 SHEET # 6 of 20

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613221.603	60973.4452
2*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613390.163	60985.5007
3*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613561.247	609736.8724
4*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613573.474	609646.5682
5*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613654.735	609761.4931
6*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613674.727	609502.5581
7*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7613852.356	609671.5301
8*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614030.671	609668.6572
9*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614204.563	609664.7392
10*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614374.986	609660.4177
11*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614469.079	609658.8422
12*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614624.322	609673.6957
13*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614755.407	609703.8976
14*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614895.073	609758.1772
15*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7614989.288	609808.8939
16*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615120.169	609900.8241
17*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615260.713	609976.5932
18*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615442.965	610029.9997
19*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615610.454	610065.2897
20*	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615637.197	610057.5896
21	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615796.26	610019.1519
22	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615837.197	610119.7769
23	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615915.01	609827.2769
24	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7615947.052	610095.7224
25	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616088.251	610045.9127
26	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616223.93	610089.2195
27	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616377.165	610060.5148
28	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616517.83	610084.9016
29	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616648.07	610036.6601
30	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616773.047	610080.7234
31	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616850.131	610034.7178
32	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7616919.308	610081.5778
33	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617014.474	610078.1673
34	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617345.294	610068.1522
35	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617435.304	610069.6683
36	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617339.953	610062.899
37	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617652.979	610002.7766
38	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617715.844	610042.2054
39	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617774.41	610007.6026
40	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7617945.207	609955.6459
41	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618037.648	610135.9685
42	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618080.233	609946.2024
43	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618100.323	609951.3704
44	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618261.129	609983.6514
45	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618433.185	609956.3389
46	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7618601.36	609983.1732
47	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7619754.809	609950.1336
48	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7619916.856	609944.5141
49	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7620080.782	609940.6755
50	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7620279.165	609935.1087
51	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7620480.622	609934.5846

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Fixture Numbers marked with * * * indicates the fixture is to be Bronze in color.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

52	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7620085.883	609926.9715
53	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7620960.677	609920.8327
54	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7621214.587	609922.7533
55	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7621459.222	610043.0138
56	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7621463.669	609917.4836
57	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7621653.887	609907.2762
58	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7622018.694	610029.5892
59	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7622269.351	610022.5692
60	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7622409.943	609988.8205
61	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7622565.725	609995.6119
62	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7622909.323	610010.3398
63	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623031.174	609888.0351
64	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623127.096	609885.7164
65	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623266.688	609882.9455
66	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623466.385	609876.5908
67	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623604.152	609873.5495
68	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623728.886	609869.3622
69	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7623874.615	609865.0794
70	Beckman Rd	Minor Arterial	72W LEOTEK LED COBRA GCM1	7624181.125	609925.8002

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
72W LEOTEK LED COBRA GCM1	70

FIGURE REPLACEMENT
BOECKMAN ROAD



CANYON CREEK ROAD
 Elligsen Road to Town Center Loop E

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621385.89	61645.8972
2	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621738.98	61692.3875
3	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621814.24	61632.7869
4	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621736.99	61658.8222
5	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621810.51	61675.7835
6	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621736.35	61687.7949
7	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621886.43	61602.46
8	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621739.11	61592.7178
9	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621804.63	61589.7139
10	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621736.65	61576.8629
11	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621796.61	61570.7802
12	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621696.48	61566.2165
13	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621755.98	61554.1998
14	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621646.37	61549.7805
15	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621695.06	61536.4721
16	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621591.06	61579.1555
17	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621635.56	61539.4075
18	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621525.17	61578.0741
19	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621553.96	61514.8092
20	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621485.56	61509.209
21	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621552.97	61502.2188
22	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621482.79	61490.3173
23	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621569.71	61490.2987
24	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621514.23	61484.6334
25	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621614.33	61477.3855
26	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621576.89	61471.1829
27	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621684.7	61464.2387
28	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621644.99	61456.0768
29	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621734.65	61447.1432
30	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621667.75	61441.0315
31	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621721.29	61434.7894
32	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621661.63	61428.0184
33	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621721.29	61428.0183
34	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621645.06	61428.0183
35	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621603.57	61407.5446
36	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621671.37	61405.4065
37	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621667.52	61392.0512
38	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621586.24	61387.6135
39	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621661.72	61388.6102
40	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621586.52	61379.6821
41	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621671.97	61374.6959
42	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621586.53	61371.3573
43	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621646.68	61360.4431
44	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621572.27	61348.0709
45	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621625.32	61344.0117
46	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621554.19	61322.0558
47	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621602.28	61321.1289
48	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621535.37	61317.916
49	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621582.72	61302.7753
50	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621514.95	61301.753
51	Canyon Cr Rd	Major Collector	3AW LOOTEK LED COBRA GC1	7621575.53	61300.1189

107	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621067.22	60823.9511
108	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621064.72	60811.3199
109	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621039.25	60841.9449
110	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621613.55	60850.354
111	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620889.04	60826.7175
112	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621038.77	60812.4544
113	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621601.32	60807.4882
114	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620911.59	60750.582
115	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620957.77	60794.727
116	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620857.7	60765.8884
117	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620941.69	607506.003
118	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620754.37	607484.869
119	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620737.74	607410.1913
120	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620806.39	607403.7156
121	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620889.14	607379.8009
122	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620666.26	607291.02
123	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7621170.65	607290.972
124	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620976.71	607285.2316
125	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620630.59	607267.2388
126	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620571.61	607256.0246
127	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620501.69	607157.0516
128	Canyon Cr Rd	Major Collector	72W LOOTEK LED COBRA GC1	7620401.51	607058.3248

FIXTURE QUANTITIES

REPLACEMENT FIXTURE	QUANTITY
72W LOOTEK LED COBRA GC1	37
3AW LOOTEK LED COBRA GC1	91

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaires Templates for Replacement Fixture Catalog Numbers. Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.



888 SW 5TH AVENUE, SUITE 1170
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 Engineering Division
 2929 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503.882.4960
 Faxes 503.882.4960

WILSONVILLE
 OREGON
 DATE: July 2020
 SCALE: AS SHOWN
 DESIGNED BY: AIR
 DRAWN BY: AIR
 CHECKED BY: JMS

FIGURE REPLACEMENT
 CANYON CREEK ROAD

FRENCH PRAIRIE ROAD
Miley Road to Miley Road

NUMBER	STREET NAME	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	SATE PLANE Y COORDINATE
1*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761892.97	59751.633
2*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761896.92	59751.682
3*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761895.1	59775.357
4*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761895.11	59776.84
5*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761974.61	59781.101
6*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761982.98	59783.802
7*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761983.68	59790.123
8*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761975.18	59800.391
9*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761962.49	59809.84
10*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761966.4	59819.739
11*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761946.4	598150.228
12*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761953.91	59817.815
13*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761939.32	59820.384
14*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761941.12	59824.742
15*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761925.1	59829.113
16*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761924.48	59833.441
17*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761901.84	59830.294
18*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761913.97	59841.724
19*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761905.78	59846.132
20*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761900.66	59850.005
21*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761891.53	59858.233
22*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761898.37	59863.104
23*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761892.7	59877.638
24*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761881	59879.557
25*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761889.95	59889.24
26*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761883.23	59900.547
27*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761890.2	59907.461
28*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761883.15	59908.289
29*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761891.1	59918.406
30*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761894.96	59920.339
31*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	7618970.4	599308.437
32*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761890.13	59935.688
33*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761890.23	59951.102
34*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761904.4	599514.22
35*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761925.29	59960.984
36*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761931.66	59968.858
37*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761914.23	599718.425
38*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	7619270.04	59982.74
39*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761920.18	599748.489
40*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761945.24	599710.152
41*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761950.94	59981.516
42*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761967.44	59972.686
43*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761966.22	599810.629
44*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761973.38	599816.376
45*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761977.71	599737.786
46*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761981.76	599766.637
47*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	761988.58	599834.311
48*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762000.75	599805.166
49*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762001.92	599856.96
50*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762049.7	599821.655
51*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762011.99	599885.211
52*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762028.92	599858.177

53*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762025.68	59992.179
54*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762039.72	59988.457
55*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762002.55	599940.955
56*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762053.08	60001.17
57*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762057.51	599951.457
58*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762069.7	60009.38
59*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762068.8	599998.998
60*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762070.91	600149.953
61*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762070.11	600083.899
62*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762083.1	600172.424
63*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762098.11	600324.038
64*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762093.78	600366.766
65*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762108.95	600445.893
66*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762107.29	600489.281
67*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762119.88	600610.316
68*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762115.29	600651.104
69*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762128.15	600731.181
70*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762127.42	600770.274
71*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762130.9	600846.97
72*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762144.8	600901.931
73*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	7621402.68	600947.068
74*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762152.42	600988.027
75*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762153.61	601063.249
76*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762169.82	601084.043
77*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762166.73	601147.479
78*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762182.68	601155.715
79*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762195.13	601206.096
80*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762199.61	601286.601
81*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762199.45	601237.526
82*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762170.3	601367.195
83*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762177.6	601310.968
84*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762219.4	601386.655
85*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762230.44	601329.752
86*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762429.39	601431.12
87*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762446.79	601347.143
88*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762601.34	601354.771
89*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762672.58	601342.865
90*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762772.58	601342.865
91*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762781.24	601408.336
92*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762943.09	601326.154
93*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762953.39	601301.065
94*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762910.16	601310.856
95*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762959.46	601365.287
96*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762959.46	601365.287
97*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762920.06	601296.416
98*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762931.92	601149.341
99*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762938.15	601192.507
100*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762953.26	601025.505
101*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762957.28	601071.265
102*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762951.73	600936.475
103*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762955.48	600911.371
104*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762971.329	600741.329
105*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762955.13	600732.457
106*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.17	600588.953
107*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.17	600588.953
108*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.17	600588.953

109*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.11	600746.367
110*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.11	600646.898
111*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762980.94	600355.982
112*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762974.02	600352.718
113*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762974.02	600169.255
114*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762974.02	600167.859
115*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762970.78	599971.767
116*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762975.27	599971.767
117*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762976.42	599983.159
118*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762973.01	599997.24
119*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762956.65	599929.253
120*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762964.46	599652.923
121*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762934.57	599579.4
122*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762937.14	599456.09
123*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762948.61	599624.995
124*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762934.24	599488.673
125*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762941.14	599408.098
126*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762937.94	599386.947
127*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762931.62	599248.821
128*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762939.24	599239.819
129*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762937.01	59905.35
130*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762934.71	599025.694
131*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762933.46	598922.884
132*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762937.92	598929.801
133*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762936.07	598929.801
134*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762935.26	598928.746
135*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762938.63	598619.926
136*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762936.65	598614.231
137*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762934.67	598474.888
138*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762937.29	598474.003
139*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762947.4	598595.22
140*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762932.01	598479.374
141*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762932.99	598179.327
142*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762938.08	598090.938
143*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762919.61	598051.568
144*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762905.06	59797.203
145*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762911.54	597929.534
146*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762902.23	597804.666
147*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762819.8	597621.001
148*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762831.13	597621.943
149*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762728.85	597401.341
150*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762728.85	597401.341
151*	French Prairie Rd	Minor Collector	27W LEOTEK LED COBRA GCI	762740.12	597409.796

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers. Fixture Numbers marked with "*" indicates the fixture is to be Bronze in color.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
27W LEOTEK LED COBRA GCI	151



FRENCH PRAIRIE ROAD
FIXTURE REPLACEMENT

City of Wilsonville
Engineering Division
2999 SW Town Center Loop East
Wilsonville, OR 97150
Phone: 503-682-4560

Wilsonville
MILEY RD E-30-71

Date: July 2020
Scale: As Shown
Designed By: AIR
Drawn By: AIR
Checked By: JMG

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7614931.148	618692.1395
2	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610639.969	610118.3461
3	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610606.731	610035.4626
4	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610551.809	609890.4216
5	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610504.13	609768.9764
6	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610455.553	609643.2615
7	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610415.362	609539.7897
8	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610387.798	609403.727
9	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610323.522	609244.6901
10	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610284.814	609120.4934
11	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610236.307	608963.02
12	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610170.946	608826.7785
13	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610136.038	608715.5679
14	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610136.038	608715.5679
15	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610086.823	608649.8219
16	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610040.615	608628.1362
17	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610007.435	608572.978
18	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610047.455	608572.978
19	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610110.578	608535.5495
20	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610057.724	608476.7605
21	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610057.724	608476.7605
22	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7610006.001	608384.6102
23	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609983.931	608331.4137
24	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609923.405	608008.3615
25	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609877.444	607861.4606
26	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609826.071	607716.6933
27	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609788.202	607582.8035
28	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609742.007	607435.3766
29	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609699.858	607303.4452
30	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609654.325	607161.8025
31	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609610.765	607020.7841
32	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609565.154	606879.023
33	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609520.684	606742.3387
34	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609481.38	606618.2264
35	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609438.546	606484.1307
36	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609388.701	606352.8377
37	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609318.054	606231.5377
38	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609240.405	606127.748
39	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609145.946	606011.2247
40	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609089.809	605941.2433
41	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7609041.225	605881.6263
42	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7608977.52	605803.336
43	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7608894.072	605701.6553
44	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7608816.05	605604.8819
45	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7608741.818	605513.6549
46	Grahams Ferry Rd	Major Collector	72W LED/TEK LED COBBA GC01	7608667.951	605422.8789

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
72W LED/TEK LED COBBA GC01	46

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

REVISIONS



City of Wilsonville
 Engineering Division
 29799 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-882-4960

WILSONVILLE OREGON

 Date: July 2020
 Scale: AS SHOWN
 Designed By: AIR
 Drawn By: AIR
 Checked By: JMS

FIXTURE REPLACEMENT
GRAHAM'S FERRY ROAD



PARKWAY AVE Town Center Loop to Memorial Drive					
NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATION	STATE PLANE Y COORDINATION
1	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615901.493	618216.6931
2	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615430.208	618032.4068
3	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615350.383	617771.6024
4	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615310.859	617574.8638
5	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615455.083	617393.7264
6	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615736.602	617109.9213
7	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615871.856	616883.2894
8	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615803.798	615138.7657
9	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615941.688	614938.7703
10	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615737.713	614693.4324
11	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615733.376	614450.0226
12	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615725.612	614210.1181
13	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615715.676	613887.7133
14	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615716.788	613738.9242
15	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615709.567	613510.0885
16	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615701.102	613009.2615
17	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614693.679	613039.1621
18	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614666.666	612770.0157
19	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614623.384	612675.9703
20	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614669.109	612475.7733
21	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614626.401	612356.5862
22	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614681.413	612331.7769
23	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614635.633	612249.2267
24	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615715.118	612039.6909
25	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614685.992	612092.8996
26	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615774.746	612028.2999
27	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615748.494	611936.0502
28	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614820.302	611899.4478
29	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615797.707	611809.1371
30	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614693.691	611715.3947
31	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614888.439	611446.0138
32	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614933.291	611227.2146
33	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614956.941	611394.2949
34	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614927.254	611283.2484
35	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615001.232	611159.3337
36	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615966.077	611005.0144
37	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615033.258	611001.9652
38	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615060.961	610854.0962
39	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615016.586	610771.4279
40	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615088.15	610708.6788
41	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615045.554	610627.6032
42	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615120.117	610351.3094
43	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615085.82	610447.7743
44	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615151.135	610423.6152
45	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7614925.94	610179.2671
46	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615091.345	610076.9471
47	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615279.93	609924.4055
48	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615397.952	609913.8886
49	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01	7615961.382	609768.7825
50	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01		
51	Parkway Ave	Minor Collector	72W LEOTEK LED COBRA GC01		

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
72W LEOTEK LED COBRA GC01	94

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Catalog Templates for Replacement Fixture
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

REVISIONS	



City of Wilsonville
Engineering Division
29799 SW Town Center Loop East
Wilsonville, OR 97170
Phone 503-882-4960

WILSONVILLE
July 2020
Scale: AS SHOWN
Designed By: AIR
Drawn By: AIR
Checked By: JMS

FIGURE REPLACEMENT
PARKWAY AVE



CIP # 4722
PROJECT #

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC01	7610575.746	602541.2705
2	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7610666.647	602586.0784
3	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7610767.535	602680.0167
4	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7610833.834	602688.0315
5	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7610904.09	602699.0357
6	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611003.353	602790.0709
7	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611140.748	602828.1586
8	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611140.748	602828.1586
9	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611278.346	602888.7841
10	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611278.346	602888.7841
11	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611417.571	602900.0554
12	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611417.571	602900.0554
13	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611555.63	603012.7982
14	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611555.63	603012.7982
15	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611694.127	603074.9378
16	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611694.127	603074.9378
17	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611833.273	603133.6299
18	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611833.273	603133.6299
19	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611971.038	603196.0768
20	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7611971.038	603196.0768
21	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612061.162	603299.749
22	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612331.99	603487.8107
23	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612454.251	603534.9688
24	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612454.251	603534.9688
25	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612577.406	603625.8468
26	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612577.406	603625.8468
27	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612700.289	603716.6873
28	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612700.289	603716.6873
29	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612796.799	603796.7324
30	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7612917.883	603904.0222
31	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613041.9	603954.5869
32	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613041.9	603954.5869
33	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613171.458	604049.8698
34	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613171.458	604049.8698
35	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7613254.247	604147.8824
36	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7613311.847	604200.4127
37	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7613421.88	604266.8104
38	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7613499.267	604321.752
39	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613634.104	604368.9315
40	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613634.104	604368.9315
41	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613690.242	604444.9029
42	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613702.888	604505.6333
43	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613800.972	604515.6234
44	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613811.223	604533.3045
45	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7613933.667	604524.1188
46	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614075.174	604709.8847
47	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614190.47	604706.9308
48	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7614204.034	604793.6975
49	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7614284.356	604766.0331
50	Wilsonville Rd	Minor Arterial	3AW LOOTEK LED COBRA GC1	7614374.904	604857.0781
51	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614474.783	604811.9314
52	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614497.24	604868.774

53	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614609.529	604869.8953
54	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614687.827	604864.1091
55	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614733.58	604807.5588
56	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614797.181	604861.1297
57	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614882.128	604797.6896
58	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7614978.746	604856.8665
59	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615065.191	604794.7635
60	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615280.85	604850.8478
61	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615353.268	604791.853
62	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615401.179	604846.4396
63	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615532.247	604856.8972
64	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615553.171	604842.1838
65	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615644.666	604783.1316
66	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615725.528	604836.7142
67	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615780.724	604778.5728
68	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615861.493	604832.5588
69	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7615956.061	604768.7961
70	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616041.811	604829.6039
71	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616248.566	604757.4656
72	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616373.058	604838.2589
73	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616393.489	604754.4788
74	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616480.812	604825.7427
75	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616518.053	604753.0502
76	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616605.31	604823.6075
77	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616613.827	604750.1444
78	Wilsonville Rd	Minor Arterial	SEE SHEET 20	7616705.217	604821.4826
79	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7616732.311	604747.5266
80	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617566.369	604708.2951
81	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617678.025	604704.5383
82	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617680.666	604799.3351
83	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617761.034	604656.2829
84	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617779.437	604799.4948
85	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617860.146	604696.2293
86	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7617975.622	604798.1627
87	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618581.016	604900.8837
88	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618596.093	604784.186
89	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618738.493	604688.3481
90	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618740.791	604773.251
91	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618873.527	604686.7481
92	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7618893.481	604761.688
93	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619304.2	604679.7195
94	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619305.113	604749.8789
95	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619380.361	60462.576
96	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619454.695	604739.3236
97	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619496.143	604663.7257
98	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619506.024	604737.4697
99	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619793.92	604732.8031
100	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619825.885	604661.3881
101	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619955.056	604728.6489
102	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7619980.726	604656.2566
103	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620116.135	604776.1286
104	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620269.628	604723.7241
105	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620350.088	604659.0023
106	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620401.96	604720.542
107	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620506.001	604656.3397
108	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620683.248	604733.372

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
109	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620778.081	604641.1148
110	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620862.7	604725.2995
111	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7620929.177	604648.9737
112	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621032.204	604680.0734
113	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621090.63	604640.3609
114	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621283.713	604646.7034
115	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621407.106	604681.306
116	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621568.511	604686.8989
117	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7621626.911	604751.001
118	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7622005.569	604659.6276
119	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7622036.048	604748.8778
120	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7622165.104	604653.1306
121	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7622214.642	604724.192
122	Wilsonville Rd	Minor Arterial	2ZW LOOTEK LED COBRA GC01	7622360.797	604633.3357

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
2ZW LOOTEK LED COBRA GC01	70
3AW LOOTEK LED COBRA GC1	43

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

NO.	DATE	DESCRIPTION



City of Wilsonville
 Engineering Division
 29799 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-682-4960

WILSONVILLE
 DATE: July 2020
 SCALE: AS SHOWN
 DESIGNED BY: AIR
 DRAWN BY: AIR
 CHECKED BY: JMS

WILSONVILLE ROAD - 1
 FIXTURE REPLACEMENT

CIP # 4722
 PROJECT #
 SHEET # 20 of 20



888 SW 31st Avenue, Suite 1170
 Portland, Oregon 97204
 503.251.2521

WILSONVILLE ROAD - 2 Willamette Way to Boeckman Road									
NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE	REPLACEMENT FIXTURE	QUANTITY	QUANTITY	61
124	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622407.337	604726.482	72W LEOTEK LED COBRA GC01	Minor Arterial	7624888.223	609127.656
125	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622555.339	604629.041	72W LEOTEK LED COBRA GC01	Minor Arterial	7624839.137	609185.643
126	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622593.131	604769.249	72W LEOTEK LED COBRA GC01	Minor Arterial	7624804.890	609294.497
127	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622736.931	604721.687	72W LEOTEK LED COBRA GC01	Minor Arterial	7624843.847	609347.7953
128	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622806.111	604840.604	72W LEOTEK LED COBRA GC01	Minor Arterial	7625019.353	609547.0807
129	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622935.69	604829.4559	72W LEOTEK LED COBRA GC01	Minor Arterial	7624950.638	609638.1877
130	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622958.884	604847.3851	72W LEOTEK LED COBRA GC01	Minor Arterial	7624972.171	609794.8659
131	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623107.73	604886.2386	72W LEOTEK LED COBRA GC01	Minor Arterial		
132	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623095.413	605084.2021	72W LEOTEK LED COBRA GC01	Minor Arterial		
133	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623159.666	605110.1958	72W LEOTEK LED COBRA GC01	Minor Arterial		
134	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623174.823	605230.8517	72W LEOTEK LED COBRA GC01	Minor Arterial		
135	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623283.99	605266.1053	72W LEOTEK LED COBRA GC01	Minor Arterial		
136	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623245.125	605395.2251	72W LEOTEK LED COBRA GC01	Minor Arterial		
137	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623394.462	605459.2346	72W LEOTEK LED COBRA GC01	Minor Arterial		
138	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623386.364	605556.2853	72W LEOTEK LED COBRA GC01	Minor Arterial		
139	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623399.767	605655.8934	72W LEOTEK LED COBRA GC01	Minor Arterial		
140	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623342.233	605753.8146	72W LEOTEK LED COBRA GC01	Minor Arterial		
141	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623451.827	605846.3892	72W LEOTEK LED COBRA GC01	Minor Arterial		
142	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623397.179	605950.1719	72W LEOTEK LED COBRA GC01	Minor Arterial		
143	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623509.031	606020.7949	72W LEOTEK LED COBRA GC01	Minor Arterial		
144	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623454.523	606140.3977	72W LEOTEK LED COBRA GC01	Minor Arterial		
145	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623604.396	606406.5174	72W LEOTEK LED COBRA GC01	Minor Arterial		
146	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623555.929	606499.9795	72W LEOTEK LED COBRA GC01	Minor Arterial		
147	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623662.42	606595.8458	72W LEOTEK LED COBRA GC01	Minor Arterial		
148	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623802.038	606670.9928	72W LEOTEK LED COBRA GC01	Minor Arterial		
149	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623701.818	606748.2485	72W LEOTEK LED COBRA GC01	Minor Arterial		
150	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623653.412	606863.2976	72W LEOTEK LED COBRA GC01	Minor Arterial		
151	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623753.843	606928.6974	72W LEOTEK LED COBRA GC01	Minor Arterial		
152	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623702.071	607042.0345	72W LEOTEK LED COBRA GC01	Minor Arterial		
153	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623789.844	607098.4767	72W LEOTEK LED COBRA GC01	Minor Arterial		
154	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623747.759	607200.5673	72W LEOTEK LED COBRA GC01	Minor Arterial		
155	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623888.086	607355.9836	72W LEOTEK LED COBRA GC01	Minor Arterial		
156	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623860.148	607476.2569	72W LEOTEK LED COBRA GC01	Minor Arterial		
157	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623972.935	607535.9236	72W LEOTEK LED COBRA GC01	Minor Arterial		
158	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7623984.348	607656.6234	72W LEOTEK LED COBRA GC01	Minor Arterial		
159	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624061.528	607714.4088	72W LEOTEK LED COBRA GC01	Minor Arterial		
160	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624038.02	607850.4915	72W LEOTEK LED COBRA GC01	Minor Arterial		
161	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624137.085	607881.794	72W LEOTEK LED COBRA GC01	Minor Arterial		
162	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624092.324	607972.0617	72W LEOTEK LED COBRA GC01	Minor Arterial		
163	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624207.898	608039.2915	72W LEOTEK LED COBRA GC01	Minor Arterial		
164	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624157.547	608105.5551	72W LEOTEK LED COBRA GC01	Minor Arterial		
165	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624280.345	608168.9452	72W LEOTEK LED COBRA GC01	Minor Arterial		
166	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624651.451	608360.1585	72W LEOTEK LED COBRA GC01	Minor Arterial		
167	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624380.659	608367.8199	72W LEOTEK LED COBRA GC01	Minor Arterial		
168	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624439.059	608510.0784	72W LEOTEK LED COBRA GC01	Minor Arterial		
169	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624382.378	608593.0289	72W LEOTEK LED COBRA GC01	Minor Arterial		
170	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624455.998	608745.2474	72W LEOTEK LED COBRA GC01	Minor Arterial		
171	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624565.311	608771.7438	72W LEOTEK LED COBRA GC01	Minor Arterial		
172	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624533.983	608816.4239	72W LEOTEK LED COBRA GC01	Minor Arterial		
173	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624656.022	608847.8594	72W LEOTEK LED COBRA GC01	Minor Arterial		
174	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624586.425	609088.5769	72W LEOTEK LED COBRA GC01	Minor Arterial		
175	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624757.391	609087.6342	72W LEOTEK LED COBRA GC01	Minor Arterial		

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

175	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624888.223	609127.656
177	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624839.137	609185.643
178	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624804.890	609294.497
179	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624843.847	609347.7953
180	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624895.183	609465.3338
181	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7625019.353	609547.0807
182	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624950.638	609638.1877
183	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7625068.884	609731.979
184	Wilsonville Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7624972.171	609794.8659

FIXTURE QUANTITIES

REPLACEMENT FIXTURE	QUANTITY
72W LEOTEK LED COBRA GC01	61



City of Wilsonville
Engineering Division
29799 SW Town Center Loop East
Wilsonville, OR 97070
Phone 503-882-4960



Date: July 2020
Scale: AS SHOWN
Designed By: AIR
Drawn By: AIR
Checked By: JMS

WILSONVILLE ROAD - 2
FIXTURE REPLACEMENT



NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Airport Rd	Minor Arterial	132W LEOTEK LED COBRA GCLL	7619405	6194319.9
2	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7614745	618426.9
3	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7614982	618426.6
4	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7615197	618415.1
5	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7615444	618426.7
6	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7615644	618426.8
7	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7615829	618420.5
8	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7616069	618397.9
9	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7616284	618393.4
10	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7616535	618387
11	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7616790	618386.8
12	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7616915	618382
13	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7617065	618377
14	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7617269	618372.8
15	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7617396	618369.9
16	Day Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7617498	618361.9
17	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7618880	616611.5
18	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7619099	616534.9
19	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7620145	616610.7
20	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7620169	616530.1
21	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7620473	616615.6
22	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7621851	616508.9
23	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622013	616502.5
24	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622177	616498.7
25	Elligens Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7622338	616496.7
26	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620539	616566.2
27	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620515	616311.5
28	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620422	616113.9
29	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620461	615930.3
30	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620426	615859.4
31	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620529	616566.2
32	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620532	615416.7
33	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620424	615376.3
34	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619563	615336.3
35	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619198	615312.7
36	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619823	615326.8
37	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619378	615275.6
38	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619694	615272.9
39	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619010	615264.3
40	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7619868	615246.6
41	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620325	615244.9
42	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620325	615244.9
43	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7618893	615211.4
44	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620117	615198.9
45	Parkway Center Dr	Minor Arterial	72W LEOTEK LED COBRA GC01	7620117	615198.9
46*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612087	610127.2
47*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612245	610122.8

48*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612396	610116.2
49*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612564	610084.4
50*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612719	610029.8
51*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7612874	609932.7
52*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7613004	609884.5
53*	Tonze Rd	Minor Arterial	72W LEOTEK LED COBRA GC01	7613097	609775.5

REPLACEMENT FIXTURE		QUANTITY
132W LEOTEK LED COBRA GCLL		1
72W LEOTEK LED COBRA GC01		52

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaires Templates for Replacement Fixture Catalog Numbers.
- Fixture Numbers marked with * * * indicates the fixture is to be Black in color.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

**FIXTURE REPLACEMENT
MISCELLANEOUS ARTERIALS**

CIP # 4722
PROJECT #
SHEET # 17 of 20



888 SW 5TH AVENUE, SUITE 1170
PORTLAND, OREGON 97204
P.503.253.3331



City of Wilsonville
Engineering Division
2929 SW Town Center Loop East
Wilsonville, OR 97070
Phone 503-882-4960

WILSONVILLE OREGON
Date: July 2020
Scale: AS SHOWN
Designed By: AIR
Drawn By: AIR
Checked By: JMS

REVISIONS

MISCELLANEOUS COLLECTORS

NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617746	609988.7
2	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617707	609774.2
3	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617734	609594.5
4	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617696	609441
5	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617774	609185.2
6	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617681	609068.2
7	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617670	608965.2
8	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617670	608552.8
9	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617669	608383.4
10	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617668	608087.7
11	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617692	607968.9
12	Boberg Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617653	607715
13	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614040	606437.6
14	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614028	606199.9
15	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614056	606144.5
16	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614038	606035.1
17	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614002	606202.4
18	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7613940	606053.8
19	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7613909	604976.8
20	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7613946	604845
21	Brown Rd	Major Collector	2W LEOTEK LED COBRA GC01	7613988	604751.7
22	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7620058	615311.9
23	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7620731	615237.6
24	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7620884	615206
25	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7621075	615204
26	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7621266	615203.8
27	Burns Way	Major Collector	2W LEOTEK LED COBRA GC01	7621489	615201.5
28	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620665	604528.9
29	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620583	604425.1
30	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620480	604125.2
31	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620314	603929.1
32	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620770	603846.1
33	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620247	603674.6
34	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620117	603575.5
35	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7620105	603398
36	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618453	603852.5
37	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618593	603689.9
38	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618717	602868.4
39	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618888	602882.7
40	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618016	602925.5
41	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7618347	602966.1
42	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7619495	602902.1
43	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7619572	603041.3
44	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7619798	603183
45	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7619968	603179.9
46	Memorial Dr	Minor Collector	2W LEOTEK LED COBRA GC01	7619997	603326.7
46	Miley Rd	Major Collector	132W LEOTEK LED COBRA GCL1	7615900	599416.9

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
132W LEOTEK LED COBRA GCL1	1
2W LEOTEK LED COBRA GC01	53
3W LEOTEK LED COBRA GC01	3

47	Miley Rd	Major Collector	132W LEOTEK LED COBRA GCL1	7622667	597221.7
48	Park Pl	Minor Collector	3W LEOTEK LED COBRA GC01	7618666	609427.7
49	Park Pl	Minor Collector	3W LEOTEK LED COBRA GC01	7618978	608852.7
50	Park Pl	Minor Collector	3W LEOTEK LED COBRA GC01	7618635	607779.7
51	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614621	613357.9
52	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7614945	613353.9
53	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7615182	613356.2
54	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7615437	613337
55	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7616789	613320.6
56	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617111	613311.2
57	Ridder Rd	Major Collector	2W LEOTEK LED COBRA GC01	7617386	613311.5

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.



888 SW 5TH AVENUE, SUITE 1170
 PORTLAND, OREGON 97204
 503.255.2221

FIXTURE REPLACEMENT
 MISCELLANEOUS COLLECTORS

SHEET # 18 of 20
 PROJECT # 4722
 CIP #

Checked By: JMS
 Drawn By: AIR
 Scale: AS SHOWN
 Date: JULY 2020



City of Wilsonville
 Engineering Division
 2929 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-882-4960



REVISIONS

INDUSTRIAL ROADS					
NUMBER	STREET	FUNCTIONAL CLASSIFICATION	REPLACEMENT FIXTURE	STATE PLANE X COORDINATE	STATE PLANE Y COORDINATE
1	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617476.181	617617.7343
2	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617782.632	617444.0559
3	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617905.463	617608.3012
4	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7615774.856	617932.5646
5	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7616609.132	617772.2047
6	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7616588.031	617038.0459
7	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7616580.373	616839.7717
8	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7616657.418	616681.6586
9	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7616728.482	616584.8537
10	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617029.008	616576.5554
11	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617207.332	616567.1102
12	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617348.804	616557.6537
13	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617697.022	616478.0236
14	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617798.562	616420.439
15	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7617923.981	616471.7713
16	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7618102.927	616470.0653
17	Commerce Cir	Industrial	72W LED/TEK LED COBBA GC/M1	7618240.318	616532.5829
18	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616107.45	613333.314
19	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616214.632	613328.3081
20	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616412.806	613322.3645
21	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616633.713	613318.5388
22	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616849.572	613316.5806
23	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616978.151	613314.6974
24	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617216.627	613293.7795
25	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617329.324	613289.1857
26	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617473.038	613283.5783
27	Freeman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617612.467	613297.042
28	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616687.759	611723.8986
29	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7616850.404	611687.6911
30	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617038.376	611683.4288
31	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617224.248	611685.2024
32	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7617406.32	611678.8159
33	Hillman Ct	Industrial	72W LED/TEK LED COBBA GC/M1	7618505.145	611683.4586

FIXTURE QUANTITIES	
REPLACEMENT FIXTURE	QUANTITY
72W LED/TEK LED COBBA GC/M1	33

GENERAL NOTE

- See Sheet 3 - Street Lighting LED Conversions Luminaire Templates for Replacement Fixture Catalog Numbers.
- Install a House Side Shield on any replacement fixture that is replacing a fixture with an existing House Side Shield.

REVISIONS



WILSONVILLE
 ENGINEERING DIVISION
 29799 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone 503-682-4960
 Faxes 503-682-4921

Date: July 29, 2020
 Scale: AS SHOWN
 Designed By: AIR
 Drawn By: AIR
 Checked By: JMS

FIXTURE REPLACEMENT INDUSTRIAL ROADS



888 SW 5TH AVENUE, SUITE 1170
 PORTLAND, OREGON 97204
 503.525.5211

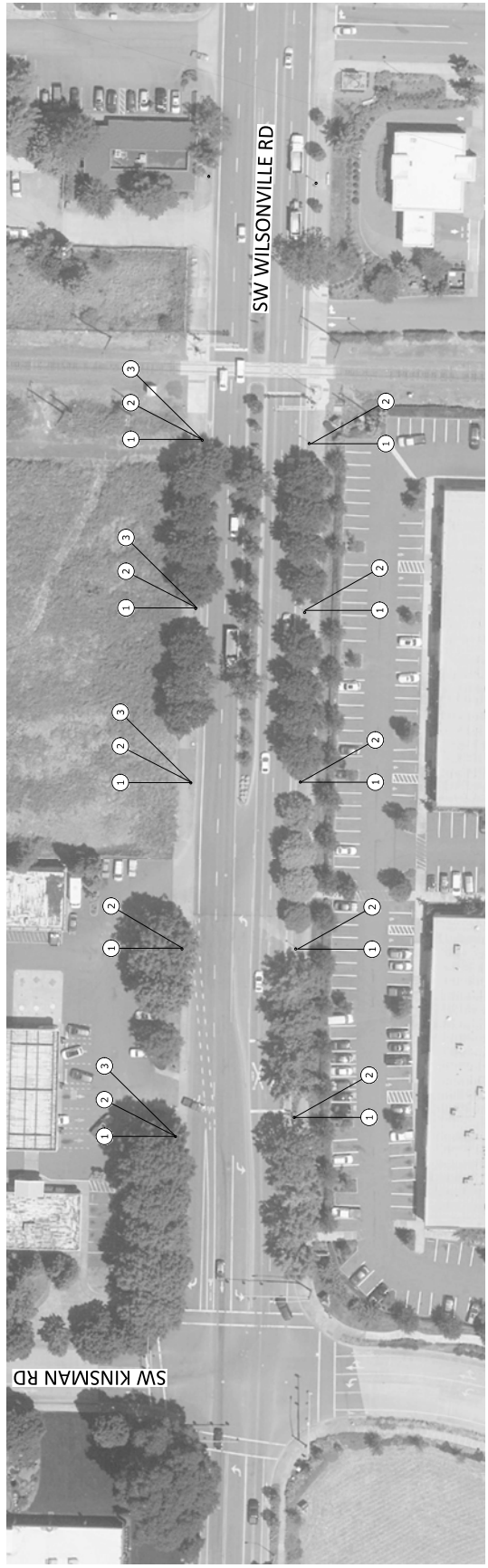
REVISIONS	



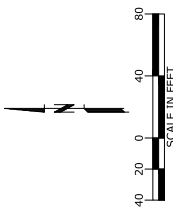
City of Wilsonville
 Engineering Division
 29799 SW Town Center Loop East
 Wilsonville, OR 97070
 Phone: 503-682-4960
 FAX: 503-682-4961

WILSONVILLE OREGON
 Date: July 2, 2020
 Scale: AS SHOWN
 Designed By: AIR
 Drawn By: AIR
 Checked By: JMG

STREET LIGHTING LED CONVERSIONS
 SW WILSONVILLE RD
 SHEET # 20 of 20
 PROJECT # 4722



PLAN
 SCALE: 1"=40'



CONSTRUCTION NOTES

- 1 Remove existing light pole and protect existing foundation.
- 2 Install 30' Aluminum pole with 6' davit arm on existing foundation. Pole and Davit arm per the PGE Approved Street Lighting Equipment for New Installations. Install LED fixture, catalog number GCM1-60L-MV-2R-GY-110-PCR7-RWG-WL-FOC.
- 3 Reinstall existing sign on new Aluminum pole.

GENERAL NOTES

1. All materials and workmanship shall conform to the City of Wilsonville Public Works Standards - 2017, the Special Provisions, the project plans, the Standard Drawings and the 2018 Oregon Standard Specifications for Construction.
2. The contractor shall coordinate with PGE (service desk 503-736-5450) to de-energize the street light(s) shown to be replaced.
3. Location of Luminaire Poles in plan view are approximate.
4. The contractor shall provide equipment submittals to the City of Wilsonville for review and approval. Use and follow ODOT Blue and Green Streets for common electrical equipment and materials. Provide cut sheets for equipment not listed on the Blue and Green Streets. Provide complete submittal package for review and approval. City of Wilsonville approval of these submittals shall be obtained prior to construction.



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Appendix B – Certificates of Completion

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CERTIFICATE OF COMPLETION
(FINAL ACCEPTANCE)

Project: _____

Contractor: _____

Contract Signed: _____

Contract Expires: _____

Contract Completed: _____

Delinquent: _____

I, (We) hereby certify that all work has been performed and materials supplied in accordance with the plans, specifications, and Contract Documents for the above work, and that:

1. Not less than the prevailing rates of wages, as ascertained by the Contracting Agency, have been paid to laborers, workers, and mechanics employed on this work;
2. There have been no unauthorized substitutions or assignments of subcontractors; nor have any subcontracts been entered into without the names of the subcontractors having been submitted to the Owner prior to the start of such subcontracted work;
3. All claims and indebtedness for material and labor and other service performed in connection with these specifications have been paid;
4. All moneys due the Industrial Accident Fund (ORS 279B.220), the State of Oregon Unemployment Compensation Trust Fund (ORS 279B.230), the State Department of Revenue (ORS 316.162 to 316.212), hospital associations, and/or others (ORS 279B.230) have been paid;
5. All private property and easement areas have been satisfactorily restored in accordance with the Contract requirements.

By: _____
Contractor's Project Manager

Dated: _____

The City hereby accepts the project as complete in compliance with the plans, specifications, and contract documents and accepts the above Contractor Certification of Compliance.

CITY OF WILSONVILLE

By: _____
Project Manager

Dated: _____

*Unless stated differently in the Contract Documents, the date of signing by the City Project Manager constitutes the beginning of the two (2) year bonded warranty period.

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Appendix C – Bonds

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PERFORMANCE BOND
(Capital Projects)

BOND NO. _____
PREMIUM: \$ _____

KNOW ALL MEN BY THESE PRESENTS, that we, _____,
as Principal, and _____ (“Surety”), a company duly organized
and licensed to do business in the State of _____, and duly licensed to conduct business as a
Surety under the laws of the State of Oregon, are held and firmly bound unto the City of Wilsonville, as Obligee,
in the penal sum of _____ Dollars
(\$ _____) lawful money of the United States, for the payment of which sum well and truly to be
made, we bind ourselves, our heirs, administrators, executors, successors, and assigns, jointly and severally,
firmly by these presents.

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH THAT, WHEREAS, said Principal has entered into a
contractual agreement, including all exhibits attached thereto and all documents incorporated by reference
therein (collectively referred to herein as the “Agreement”), with said Obligee, which Agreement is identified as
_____ (“Project”),
pursuant to which said Principal undertakes and agrees to perform all labor and furnish all equipment and
material, in accordance with all the terms and conditions set forth in said Agreement; and to save harmless the
Obligee from any claim for damages or injury to property or persons arising by reason of said work, as set out
more fully in said Agreement; and to do and perform all things in said Agreement as required, in the time and
manner and under the terms and conditions therein set forth; and in conformity with all laws, state and
national, applicable thereto.

NOW, THEREFORE, if the said Principal shall well and truly do and perform all the covenants and obligations of
said Agreement on its part to be done and performed at the time and in the manner specified therein, and in all
respects according to their true intent and meaning, and shall defend, indemnify, and save harmless the Obligee,
its officers, agents, and employees, as therein stipulated, only then this obligation shall be null and void;
otherwise, it shall be and remain in full force and effect. The completion of all such covenants and obligations
shall only be considered to have occurred upon the written final acceptance of all Project work by Obligee and
the expiration of any warranty period, as provided under the Agreement.

The Surety hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms
of said Agreement or the specifications accompanying the same shall in any manner affect its obligations under
this Bond and it does hereby waive notice of any such change, extension, alteration, or addition to the terms of
the Agreement or to the work or to the specifications.

If the Principal shall be declared to be in default in the performance of any part of the Agreement, the Surety
must, within the same time frame allowed to the Principal, cure or cause to be cured the default or must
otherwise immediately pay the entire penal sum of the Bond to the Obligee.

This obligation also includes the obligation to promptly pay, as due, payment to any person, co-partnership,
association, or corporation furnishing medical, surgical, and hospital care or other needed care and attention
incidental to sickness or injury to the employees of said Principal, pursuant to the laws of Oregon, or collected or
deducted from the wages of said employees pursuant to any law, contract, or agreement for the purpose of
providing or paying for such services, and shall do all things required of said Principal by the laws of Oregon.

The Surety acknowledges that the Surety shall not be entitled to assert any defense for failure of performance that the Principal might have by operation of law.

As a part of the obligation secured hereby, and in addition to the penal sum specified thereunder, there shall be included all reasonable costs, expenses, and fees ("Costs"), including reasonable attorney fees, incurred by the Obligee in enforcing the obligations described herein, all to be included in any judgment rendered, and which shall bear interest at the judgment rate then in effect until paid in full.

Except for Costs and attorney fees, which shall be in addition thereto, the Surety's obligation shall not exceed the penal sum of the Bond.

This Bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this Bond and made a part hereof.

Signed and sealed on _____, 20__.

PRINCIPAL NAME:

By: _____

Print Name: _____

As Its: _____

SURETY NAME:

By: _____

Print Name: _____

As Its: Attorney in Fact

The attorney-in-fact who executes this Bond on behalf of the surety company must attach a copy of his/her power-of-attorney as evidence of his/her authority.

To each executed original of this Bond, there must be attached a complete set of the contract documents, as the term is defined in the "Standard Specifications and Special Provisions," with all corrections, interlineations, signatures, etc., completely reproduced therein.

PAYMENT BOND

BOND NO. _____

KNOW ALL MEN BY THESE PRESENTS, that we, _____,
as Principal, and _____ (“Surety”), a corporation duly
organized and licensed to do business in the State of _____, and duly licensed to conduct business as
a Surety under the laws of the State of Oregon, are jointly and severally held and firmly bound unto the City of
Wilsonville, as Obligee, in the sum of _____ Dollars
(\$ _____) lawful money of the United States, for the payment of which sum we jointly and
severally bind ourselves and our respective heirs, executors, administrators, successors, and assigns, firmly by
these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the Principal herein, on the _____ day of
_____, 20____, has entered into a contract with the Obligee whereby said Principal
undertakes to promptly make payment for all labor, services, and materials; all sums due the Workers’
Compensation Board or equivalent, the collector of internal revenue, the unemployment compensation trust
fund, and the treasurer of the State of Oregon; in conformity with all laws, state and national, applicable
thereto.

NOW, THEREFORE, if the Principal herein shall promptly pay all persons furnishing labor, services, and materials,
and sums due for workers’ compensation insurance or equivalent, social security and unemployment
compensation, sums due to the Department of Revenue, to him and to his subcontractor, or to their assigns, on
or about said work, then this obligation shall be null and void; otherwise, it shall be and remain in full force and
effect.

PROVIDED, HOWEVER, that this Bond is subject to the following conditions:

(a) All materialmen, and all persons who shall supply such laborers, mechanics, or subcontractors
with material, supplies, or provisions for carrying on such work, shall have a direct right of action against the
Principal and Surety on this Bond, second only to the right of the Obligee under this Bond, which right of action
shall be asserted in proceedings instituted in the appropriate court in the State of Oregon, and insofar as
permitted by the laws of Oregon, such right of action shall be asserted in a proceeding instituted in the name of
the Obligee to the use and benefit of the person, firm, or corporation instituting such action and of all other
persons, firms, or corporations having claims hereunder, and any other person, firm, or corporation having a
claim hereunder shall have the right to be made a party to such proceeding (but not later than one year after
the complete performance of said contract and final acceptance of the work in the contract) and to have such
claim adjudicated in such action and judgment rendered thereon.

(b) The Surety, for the value received, hereby stipulates and agrees that no change, extension of
time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the
specifications accompanying the same shall in any way affect its obligations under this Bond and it does hereby
waive notice of any such change, extension of time, alteration, or addition to the terms of the contract or to the
work or to the specifications.

(c) The Principal herein shall faithfully and truly observe and comply with the terms of the contract
and shall promptly make payments to all persons supplying labor or material for any prosecution of the work

provided for in such contract and shall not permit any lien or claim to be filed or prosecution against the Obligee on account of any labor or material furnished, and shall promptly pay all contributions or amounts due the Workers' Compensation Board or equivalent and all contributions or amounts due the state employment compensation trust fund incurred in the performance of said contract, and shall also pay all sums of money withheld from the employees and payable to the state tax commission pursuant to ORS 316.711, and shall do all things required of said Principal by the laws of the State of Oregon.

This Bond is given and received under the authority of ORS Chapter 279, the provisions of which hereby are incorporated into this Bond and made a part hereof.

SIGNED, SEALED, AND DATED this ____ day of _____, 20__.

PRINCIPAL NAME:

By: _____

Print Name: _____

As Its: _____

SURETY NAME:

By: _____

Print Name: _____

As Its: Attorney in Fact

The attorney-in-fact who executes this Bond on behalf of the surety company must attach a copy of his/her power-of-attorney as evidence of his/her authority.

To each executed original of this Bond, there must be attached a complete set of the contract documents, as the term is defined in the "Standard Specifications and Special Provisions," with all corrections, interlineations, signatures, etc., completely reproduced therein.

**PUBLIC WORKS CONSTRUCTION
WARRANTY AND MAINTENANCE BOND
(Capital Projects)**

Bond # _____

_____, as Principal, and _____, a corporation organized under the State of _____ and authorized to transact surety business in the State of Oregon, as Surety, declare that they, their heirs, administrators, successors, and assigns are jointly and severally bound unto the City of Wilsonville, Oregon, Obligee, in the sum of _____ Dollars and ___/100 (\$_____), for which we agree payment will be made upon demand if Principal fails to meet the obligations as described below.

The Principal has constructed certain public works improvements for a project known as: _____, and identified by the City of Wilsonville as File No. _____. These improvements, as shown in the as-built project plans, were accepted by the City of Wilsonville on _____. As a requirement of the Construction Documents for the Project, and to ensure post-construction quality and landscape survivability, the Principal has agreed, as a condition of final approval of said public works construction, to warrant to the City of Wilsonville that the construction is, and will remain for a period of two (2) years from the date of acceptance, free from defects in material and workmanship and that all landscaping, as shown in the as-built project plans, will be maintained in good condition and replaced, as needed, per the Contract Documents. This warranty by the Principal is in addition to and not in lieu of any other warranties provided by various suppliers or manufacturers.

The condition of the obligation is such that if Principal shall fully perform according to the terms of the as-built project plans and the warranty described above, and if no claim on said warranty is unsatisfied at the conclusion of thirty (30) days following the two (2) year warranty period, then this obligation shall be void, otherwise to remain in full force and effect.

The amount of this bond in no way limits Principal's liability to the City of Wilsonville.

(Project Name)

Date: _____

PRINCIPAL:

CORPORATE SURETY

By: _____
Print Name: _____
As Its: _____
(title)

By: _____
Print Name: _____
As Its: _____
(title)

(Address)

(City, State, Zip)

To be completed by City:

File No.: _____

Date of Acceptance of Construction: _____

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