



The City of Worcester

Department of Parks, Recreation & Cemetery

Robert C. Antonelli, Jr., Commissioner

REQUESTS FOR BIDS

Blithewood Park Parking Lot Lighting Improvements

PROJECT SPECIAL CONDITIONS & SPECIFICATIONS

October 2025

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PROJECT SPECIAL CONDITIONS

ARTICLE 1 PROJECT SITE

- a. All work of this contract is located within the confines and adjacent Right-of-Way of 10 Blithewood Avenue, owned and maintained by the City of Worcester Department of Parks, Recreation and Cemetery (DPRC).

ARTICLE 2 SUMMARY OF WORK

- a. The work to be completed under this contract involves the furnishing of all labor, materials and equipment for the following items of work and all incidentals thereto. All work shall be performed in full accordance with the specifications, other contract documents, obviously implied and necessary or under the direction of the Owner.
- b. The plans and specifications are intended to be cooperative, and any item called for in one and not the other shall be as binding as if called for in both. During the bidding period discrepancies should be immediately brought to the attention of the Owner for clarification. If a discrepancy is discovered within the plans and the specifications after the Bid period, **the Owner will determine which shall apply.**
- c. When Applicable, The City of Worcester DPW and DPRC will specify Project Standard appurtenances/amenities such as, but not limited to, park benches, trash receptacles, irrigation controllers, pedestrian, parking and sports field lighting, etc. in the facilities within their jurisdiction that are currently installed at this or other facilities. By standardizing, it provides the Division with a consistent product which through familiarity reduces operator training and maintenance time. Standardization also provides opportunities for maintenance cost saving through interchangeable parts such as but not inclusive to luminaries, ballast, poles, compatibility with current Division maintenance equipment etc.
 - i. No substitution or equal will be accepted for the following item(s).
 1. Pedestrian/Pathway lighting pole and fixture, Holophane.
 2. Musco Sports Lighting System.
- d. Quality Control: To ensure the highest level of quality with respect to the playing surface of this greatly utilized public athletic facility, the General Contractor / Awardee shall have a minimum of five (5) years of successful experience.
 1. as the Prime Contractor constructing (provide verifiable references upon request)
 2. ability to demonstrate constructing (provide verifiable references upon request)
 3. coordinating and supervising (provide verifiable references upon request)

Park and Playground Improvements of similar size and quality of this Project as per the standards of the Project specifications and construction drawings.

ARTICLE 3 WORK WITHIN A PUBLIC PROPERTY

- a. As a source of information, all the work to be undertaken is located within the confines of an unsecured public property, and as such is subject to acts of vandalism. The City of Worcester is not liable for any damage to the Contractor's equipment or materials. The Contractor shall take all means and measures necessary to protect the public, work in progress, work completed, and all furnishings, materials and equipment stored at the site through the completion of the Project. The repair or replacement of work in place or in progress shall be the sole responsibility of the Contractor and shall be accomplished at no cost to the Owner.

ARTICLE 4 SITE INSPECTION

- a. It shall be contingent upon the Contractor to inspect the site as an aid to determining the extent of the work under the various contract items before submission of the Bid.
- b. Final limits of work as per plans, stockpiling, staging and entrance shall be determined in the field.
- c. **Furnish, install, and maintain six-foot height panelized/mobile temporary constructions metal fence and hardware as required to protect and secure the perimeter, limits of work and staging area.**

ARTICLE 5 PRE-CONSTRUCTION MEETINGS

- a. A mandatory pre-construction meeting will be arranged by the Owner's representative after the award of the Contract. Sub-consultants may be asked to attend the pre-construction meeting if determined by the Owner's Representative to be warranted.

ARTICLE 6 SITE ACCESS

1. Prospective bidders are advised that access to the Project sites shall be in accordance with the governing traffic patterns with specific locations into the site, to be verified in the field after the award of the contract.
2. Regardless of the eventual location of the construction access and limits of work, the Contractor shall make every provision to ensure the access and safety of the public using the balance of any of the existing amenities on the property.

ARTICLE 7 OWNER'S TAX EXEMPTION

1. The Awarding Authority, as a department of a corporate municipality in the Commonwealth, is exempt from the taxes listed below. The contractor shall notify all suppliers of the following current certificates.
2. Federal Excise Taxes as applied to articles taxable under Chapter 32 of the Internal Revenue Code of 1954, as amended, City Excise Tax Exemption Certificate is not required.
3. From Sales and Use Tax imposed by the Commonwealth of Massachusetts under Chapter 14, Acts of 1966, the City has been assigned and exemption certificate with respect to leases, rentals, or purchases of "Tangible Personal Property". The Owner at the Contractor's request will furnish the tax-exempt certification number.

ARTICLE 8 TIME FOR COMPLETION & SEQUENCE OF WORK

- a. Except as the work may be interrupted by weather conditions as hereinafter specified, the Contractor shall prosecute the Work with the diligence necessary to ensure its completion within the required time. The Contractor shall provide sufficient labor, materials, and equipment, and shall promptly take such appropriate action to keep the Work on schedule or as directed by the Owner. No additional time shall be provided for Change Orders.
- b. DPRC shall be solely responsible for determining when the work will be interrupted due to unsatisfactory weather conditions. Determination of the period to be included in the Time for Completion shall cease when the City directs that the work stops due to weather and shall commence again on the first working day thereafter that the City may designate the work to be resumed.
- c. The Contractor must completely understand that once the Contractor mobilizes and begins work, the Contractor shall be on-site, every day during the normal work week, and must work continuously until substantial completion of the Project. The Parks, Recreation, and Cemetery Division will not allow any time gaps of any length of time during the construction due to the Contractor's scheduling of other work not related to this specific Contract.
- d. It should be further understood that this Project will not be a "fill-in" for the Contractor and that the Contractor does not have the ability to start and stop construction at the Contractor's option. Any unauthorized time gaps will be subject to a flat fee of \$500.00 per day. The Owner reserves the right to deduct the said fee from the Contractor's periodic application for payment and the Contract Sum.
- e. The Contractor shall carry on the Work and adhere to the schedule during all disputes and disagreements with the Owner. No Work shall be delayed or postponed pending resolution of any disputes or

disagreements. The Contractor shall exercise reasonable precautions, efforts and measures to avoid or mitigate situations that would cause delays.

- f. The punch list shall be completed within 28 days from the date of issue.
- g. The Contractor advised that the **required calendar days** regarding Time for Completion and Punchlist, shall be consecutive.

ARTICLE 9 LIQUIDATED DAMAGES

- 1. Prospective Bidders are advised that liquidated damages shall be in effect for this Project. The Contractor shall be liable for and compensate the Owner.
- 2. the sum of Five Hundred and Dollars (\$500.00) as fixed and agreed, as liquidated damages for each calendar day of delay from the date stipulated for completion, or as modified in accordance with the provisions of the Contract
- 3. If Applicable, State and Federal Grant Funding losses.
 - a. **Not Applicable for this Project**
- 4. and/or actual costs incurred by the Owner for additional Construction Administration/Management (City Staff, Consultants, etc.) salaries/compensation from the date stipulated for completion, or as modified in accordance with the provisions of the Contract and notification to The Sureties.

ARTICLE 10 CONSTRUCTION SCHEDULES & PAYMENT ESTIMATES

- a. The Contractor must submit a construction schedule to the Owner indicating the general sequence of all work under this Contract. This schedule must be submitted within 7 calendar days of the date of the Notice-to-Proceed and shall be revised if required to the satisfaction of the Owner.
- a. The Contractor shall submit a breakdown and monthly cost estimate (schedule of values) for all items of work, including separate categories, phases, grant funded or reasonable requests by the Owner.
- b. The established breakdown of items, categories and values shall be utilized to prepare the monthly pay requisition forms. It is recommended that the Contractor submit a draft Payment Applications to the Owner for approval, no later than the second week of every month. The Owner shall review and edit this copy to indicate the amount of payment to be approved and return this to the Contractor after field review.
- c. Revised/updated; monthly payment estimates, construction schedule, As Built and proof of up-to-date daily construction reports shall be submitted with monthly Payment Applications. The Contractor shall then formally submit three (3) originals of the Payment Applications, conforming to the Owner's approval, for payment.

ARTICLE 11 CONST. REPORTS & WEEKLY PROGRESS MEETINGS

- a. The Contractor and Sub-Contractors shall attend a regular weekly meeting with the Owner at the Parks, Recreation and Cemetery Headquarters, 50 Officer Manny Familia Way, Worcester, MA, at a pre-determined time set by the Owner. The Contractor must be present for these meetings during the Contract and reserves no right to cancel the meeting.
- b. The Contractor will be required to take minutes for the weekly scheduled meetings. The Contractor will have three (3) business days from the date of the meeting to submit to the Owner the minutes of the meeting on the Parks, Recreation and Cemetery Division form. The form will be supplied to the respective Contractor when the Notice to Proceed has been issued.
- c. The Contactor will be required to maintain daily construction reports (DCRs) (format and information required to be provided and/or approved by Owner). PDF of the DCRs shall be submitted weekly for Owner review and files.

- d. The Owner may desire other meetings from time to time, and the Contractor shall attend these, and such Sub-Contractors as are directed to attend. All the above-mentioned conditions should apply.

ARTICLE 12 HOURS OF OPERATION

- a. Unless otherwise approved by the Owner, hours of operation shall be 7:00 a.m. to 3:30 p.m., Monday through Friday, excluding City observed holiday(s).

ARTICLE 13 CONTRACT DOCUMENTS

- a. The Owner will furnish the Contractor, without charge, TWO (2) complete copies of the Bid Documents.

ARTICLE 14 STORAGE, USE OF MATERIALS & EQUIPMENT/MACHINERY

- a. Bidders are advised that the storage of equipment within the confines of the Project limit shall be at the Contractors own risk. No material or equipment shall be stored outside the limits of work as defined in the contract documents, designated and agreed to by the Owner.
- b. The Contractor shall not use as any part of his operation any skid steered, track driven, or heavy machinery/equipment on adjacent roadways.

ARTICLE 15 DELIVERY, INSPECTION & ACCEPTANCE OF NEW AMENITIES

- a. General Contractor shall provide product manufacturer and Owner, 72 hours advance notice of any onsite scheduled deliveries of Amenities for Inspection and Acceptance.
- b. Any damage noted by any of the parties present at the time of inspection shall be corrected in one of the three options below, as determined by the Owner, with no delays or extensions to the Project Schedule.
 - 1. Repair to the **FIT & FINISH** of the manufacturer's/factory Specification prior to installation.
 - 2. Replace with new product from manufacturer/factory.
 - 3. Install damaged products and field repair to the Owner's satisfaction and provide new identical replacement part as spare.
 - 4. This Article shall also apply to amenities stored offsite and damage discovered while under the Responsibilities of the General Contractor, until the Acceptance of Work.

ARTICLE 16 CARE AND RESPONSIBILITIES OF CONTRACTOR

- a. Except as otherwise specifically stated in the Contract Documents and Technical Specifications, the Contractor shall provide and pay for all materials, tools, labor, equipment, water, light, heat, power, transportation, superintendence, protection, temporary construction of every nature, charges, levies, fees or other expenses, permits and back charges and all other services and facilities of every nature whatsoever necessary for the performance of the Contract and to deliver all improvements embraced in this Contract completed in every respect within the specified time.
- b. Unless otherwise specified herein all materials, workmanship, methods, and practices shall conform to the current Standards and Ordinances of the appropriate Departments and/or Commissions of the City. The following documents are available online at <http://www.ci.worcester.ma.us/dpw/> , a hard copy or CD will be furnished to the Contractor upon request.
 - i. The City of Worcester DPW, Engineering Division, Construction Management Section, Standard Specifications and Details - March 2007 or current edition.
 - ii. Permit Manual – Revised 2004 or current edition.
- c. The Contractor shall be responsible for detailed layout. All stakeout and grade control shall be performed by

a third-party MA registered Land Surveyor, approved by the Owner, for this purpose. The Owner has the option to verify and approve the layout and locations of improvements prior to excavation or installation.

- d. Grade control shall be verified by the Contractor for compliance with federal, state and or local accessibility requirements. During the construction sequence (such as: installation of subbase, bituminous binder and/or top, concrete flatwork etc.), the Contractor shall be required to verify grades, by approved methods, with the Owner present and prior to placement of finished grade for sidewalks, pathways, plazas, ramps, parking spaces, associated appurtenances, etc., that are required to meet accessibility and the Project Documents.
- e. The Contractor shall verify the dimensions and utility locations shown on the plans and if any inconsistencies or discrepancies should be noted on the Drawings, or between the Drawings and actual field conditions, or between the Drawings and the specifications he/she shall immediately notify the Owner. The Contractor will be held responsible for any errors resulting from his/her failure to exercise the precaution. Such information shall be marked on copies of the "As Built" drawings and the original "As Built" drawings are to be reviewed at weekly job meetings.
- f. The Contractor shall provide final As Built Survey Drawings to the Owner. See "Record Drawings – As Built" of this Section. Punch list items shall be completed within twenty-eight (28) consecutive calendar days from date of issue, unless agreed upon otherwise by both parties. Owner has the right to complete punch list items not completed in within this timeline and deduct cost from the Contract.
- g. The Contractor shall maintain a full-time onsite superintendent, whether the construction forces are employed by The Contractor or employed by a Sub-Contractor.
- h. As soon as the Contract is executed, the Contractor shall order materials, submit construction schedules as herein after specified and otherwise anticipate the Notice to Proceed. When the Owner gives the Notice to Proceed, the work of construction shall begin at the time stipulated therein and shall be completed within the Time for Completion specified.
- i. It is the Contractor's responsibility to make his own investigation and related assumptions, to satisfy her/him as to subsurface conditions and to ensure that these are reflected in the bid.
- j. To verify locations of utilities and varying field conditions, exploratory excavations may be necessary, the cost of which is to be included in the contract bid price.
- k. The Contractor's attention is called to the necessity of obtaining permits and coordination with, especially those required by various departments of the city and all external utility companies. These permit fees will **not be waived** by the city and must be paid in full by the Contractor.
- l. The Contractor shall furnish and maintain all temporary fences, barriers, enclosures, lights and warning devices necessary to protect his/her work area and to protect the public and his work forces throughout the life of this Contract.

ARTICLE 17 EMERGENCY CONTACT INFORMATION

- a. The Contractor will be required to submit within seven (7) business days after the Notice to Proceed a list of all people that will be involved with the completion of this Project including all principal(s), president(s), superintendent, and Project manager of the company. The list shall contain the following information, including but not limited to name, title, address, voice mail number, cell/contact phone number, fax number and email address.

ARTICLE 18 ON SITE SUPERINTENDENT & PROJECT MANAGER

- a. The Contractor must, always, maintain an on-site Superintendent during the construction and administration of this Contract. The superintendent must be completely familiar with all aspects of the Project and capable of following the construction through from start to finish. The Contractor does not have the right to switch, replace, change or otherwise remove the superintendent assigned to this Project unless specifically authorized in writing by the Owner. The on-site superintendent must be present with a minimum of seven (7) hours per day during construction. If the on-site superintendent fails to meet the above-mentioned requirements, the Contractor will be subject to a flat fee of \$500.00 per day. The Owner reserves the right to deduct the said fee from the Contractor's periodic application for payment and the Contract Sum.

The Contractor must assign a Project Manager to this Contract that is completely familiar with all aspects of the work, available and capable of completing the Project. The Contractor does not have the right to switch, replace, change or otherwise remove the on-site Superintendent and/or Project Manager assigned to this Project unless specifically authorized in writing by the Owner. The Owner would discuss all matters regarding the administration of this Contract with only one (1) Project Manager, regardless of how many the Contractor assigns to the Project.

All correspondence, emails, voice mail, faxes, etc. will be handled through the designated Project Manager only. The Parks, Recreation and Cemetery Division reserves the right, in conjunction with the Contractor, to remove the Contractor's assigned on-site Superintendent and/or Project Manager if the City feels it is the best interest to do. Upon written notification, the Contractor must assign a new Project Manager within three (3) business days.

ARTICLE 19 PROVISIONS FOR TRAFFIC/POLICE DETAIL (As Applicable)

- a. The Contractor shall not close or obstruct any portion of the **RIGHT-OF-WAY** without obtaining the necessary permission from the proper municipal authorities. If any street or private way shall be rendered unsafe by the Contractor's work, he shall make such repairs or provide such temporary ways or guards as shall be acceptable to the Owner including the provision of police details required to complete the work.
- b. The Contractor at his/her expense shall maintain public roads and sidewalks passable and accessible, and the Contractor shall assume full responsibility for the adequacy and safety of provisions made. He shall conduct his construction operations such that interference with the activities of park users will be held to a minimum.
- c. The Contractor shall cooperate in every way possible with the municipal authorities in accommodating park activities and events.

ARTICLE 20 COMMUNICATIONS

- a. All notices, demands, requests, instructions, approvals, proposals and claims must be in writing and must be presented in person or by mail to the Owner, or alternate methods (s) agreed upon by both parties.
- b. Any notice to or demand upon the Contractor shall be considered sufficiently given if delivered at the office or field office of the Contractor stated on the signature page of the Agreement (or at such other office as the Contractor may from time to time designate in writing to the Owner), or if deposited in the United States mail in a sealed, postage prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to such office.
- c. All papers required to be delivered to the **Owner** shall, unless otherwise specified in writing to the Contractor, be delivered to:

Robert C. Antonelli, Jr. Commissioner
Department of Parks, Recreation & Cemetery
50 Officer Manny Familia Way, Worcester, MA 01605

and any notice to or demand upon the Owner shall be sufficiently given is so delivered, or if deposited in the

United States mail in a sealed, postage prepaid envelope, or delivered with charges prepaid to any telegraph company for transmission to said Owner at such address, or to such other representatives of the Owner or to such other address as the Owner may subsequently specify in writing to the Contractor for such purpose.

- d. Any such notice shall be deemed to have been given as of the time of actual delivery or (in the case of mailing) when the same should have been received in due course of post, or in the case of telegrams, at the time of actual receipt.

ARTICLE 21 PARTIAL USE OF SITE IMPROVEMENTS

- a. The Owner, at its election, may give notice to the Contractor and place in use those sections of the improvements which have been completed, inspected and can be accepted as complying with the Technical Specifications and if, in its opinion, each such section is reasonably safe, fit and convenient for the use and accommodation for which it was intended, provided:
1. The use of such sections of the improvements shall in no way impede the completion of the remainder of the work by the Contractor.
 2. The Contractor shall not be responsible for any damages or maintenance costs due directly to the use of such sections.
 3. The use of such sections shall in no way relieve the Contractor of his liability due to having used defective materials or due to poor workmanship.
 4. The period of guarantee stipulated in the specifications shall not begin to run until the date of the final acceptance of all work which the Contractor is required to construct under this Contract.

ARTICLE 22 SAMPLING, TESTING, INSPECTION OF WORK & MATERIALS

- a. Sampling, testing and inspections ordered or required by the Owner to ensure that work and materials are as specified, and that compaction of all materials conforms to the necessary requirements shall be taken and completed by the Owner or representatives of a Massachusetts certified testing laboratory satisfactory to the Owner and shall be paid for by the Owner unless described/required in the Technical Specifications. Contractor shall provide the Owner at least 72 hours advance notice of work to coordinate the intent of this Article and shall apply automatically with all work below finished grade unless directed otherwise by the Owner.

ARTICLE 23 TEMPORARY FACILITIES

- a. Furnish all labor, materials, and services to fulfill the requirements for temporary facilities, at no additional cost to the Owner, and comply with all requirements set forth herein, except where noted requirements conflict with Federal, State, or Local laws, rules, and regulations, in which case(s) the applicable Federal, State, or Local requirements shall govern.

ARTICLE 24 SANITARY FACILITIES

- a. Provide, place, and maintain in good order from commencement to final completion of the work, suitable temporary toilet facilities for use by all people employed under this contract. Toilets shall be rented from and serviced by an approved company and shall be kept sanitary and always secure. The type of toilets proposed for use shall have the approval of the appropriate City Agency, and the number of units shall be as recommended by the Department of Labor. Toilets shall be locked during non-working hours and placed in a secure (fenced) location, where possible.

ARTICLE 25 TEMPORARY LIGHT AND POWER

- a. Make all necessary arrangements with the local utility company and pay all costs, including labor, in operating and maintaining all temporary services for electricity used during the construction, unless specifically noted otherwise.
- b. Ensure that temporary wiring, outlets, and lighting are provided in accordance with the current requirements of Bulletin No. 12, Division of Industrial Safety, Department of Public Safety, Commonwealth of Massachusetts.

ARTICLE 26 TEMPORARY WATER

- a. The contractor shall be responsible for furnishing, installing and coordinating temporary water needs and temporary connections.

ARTICLE 27 UTILITIES

- a. The Contractor shall obtain and pay for all licenses and/or permits, which are required by the City or any other agencies that may be involved; he/she shall comply with all codes, regulations and standards of the City.
- b. Contractor shall be responsible for all on-site coordination with utility companies and public agencies and for obtaining all required permits and paying all required fees. In accordance with M.G.L., Chapter 82, Section 40, including amendments; Contractor shall notify all utility companies and government agencies in writing prior to such excavation, Contractor shall also call "Dig Safe" at 1-(888) 344-7233 no less than 72 hours (exclusive of Saturdays, Sundays and Holidays.) prior to such excavation. Documentation of requests and numbers provided to Contractor shall be provided to Owner prior to excavation work.
- c. National Grid fees related to new or upgraded service will be billed directly to and paid by Owner.

ARTICLE 28 PHOTOGRAPHS & TIME-LAPSE CAMERAS -Not in Contract (NIC)

- a. The Contractor shall be required to furnish one (1) view of before, during and after photographs of each site conditions. The Contractor is encouraged to submit "during" photographs along with each pay requisition to facilitate approvals. Photographs in electronic format via compact disc (jpeg or tiff) are acceptable.
- b. The Contractor shall be required to furnish, install and continuously maintain two (2) industrial-grade, wireless, battery operated, weather-proof, construction time-lapse cameras. Cameras shall be securely mounted up to 25'-0" above sidewalk grade on existing light poles adjacent to the Project, location and field of view to be reviewed and approved by Owner. Minimum specification for the performance of the cameras shall be Brinno Model BCC200 or approved equal. The cameras' AVI file (1 frame per 1 minute, 5 frames per second and 30-day maximum duration) shall be submitted with monthly Payment Applications. Cameras shall be operational within 10 calendar days of notice to proceed (NTP) and prior to start of work, whichever is sooner, and maintained until substantial completion of the Project. Cameras and appurtenances shall become property of the Owner at the conclusion of the Project in proper working condition or replaced with new.

ARTICLE 29 CONTRACTOR'S SHOP & WORKING DRAWINGS

- a. Contractor to coordinate preparation and processing of submittals with performance of construction activities. Transmit each submittal sufficiently in advance of performance of related construction activities to avoid delay.
- b. All Contractors are directed to the timeliness and critical importance of expediting the submittal process. Any lead times that may impact sequencing should be prioritized to meet the Project schedule. The Owner must be notified if any delays arise that impact lead times.
- c. The Contractor shall coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals and related activities that requires sequential activity.
- d. The Owner reserves the right to withhold action on a submittal requiring coordination with other submittals until all related submittals are received.
- e. To avoid the need to delay installation because of the time required to process submittals and to allow sufficient time for submittal review, all initial product submittals, shop drawings shall be submitted for processing and within **twenty-eight calendar days** (28) days from the date of Notice to Proceed.

- f. The Contractor must allow the Owner **10 calendar days** (10) per initial and subsequent shop drawing review to achieve efficient construction sequencing. Allow additional time if the Owner must delay processing to permit coordination with subsequent submittals. If an intermediate submittal is necessary, process the same as the initial submittal. Allow ample time for reprocessing each submittal to achieve efficient construction sequence.
- g. No extension of Contract Time will be authorized because of the Contractor's failure to transmit submittals to the Owner for processing sufficiently in advance of the scheduled Work.
- h. Shop drawings, product data and samples submitted for each item will be reviewed no more than two (2) times at the Owner's expense. Submittals failing to comply with the Contract requirements will be reviewed at times convenient to the Owner and the Owner's consultants and at the Contractor's expense, based upon the hourly rate of the Engineer/Consultant for each subsequent re-submittal. The Owner reserves the right to deduct said reimbursement from the Contractor's periodic application for payment and the Contract Sum.
- i. The Owner's review and approval of submittals shall be held to limitations stated in the conditions of the Contract. In no case shall approval or acceptance by the Owner be interpreted as release of Contractor of responsibility to fulfill requirements of Contract Documents. No acceptance or approval of submittals, nor any indication or note marked by the Owner on submittals, shall constitute authorization for increase in Contract Sum. The Owner will stamp each submittal with an action stamp.
- j. As the timely submittal of samples, shop drawings, catalogue cuts and other related submittals is of paramount importance to the completion of the Project within the stipulated period, a contract value of 1% will be assigned to this effort. Upon receipt of the complete submittal package the General Contractor will be permitted to submit payment of this item with a value equal to 1% of the base bid contract amount.
- k. Show on a large-scale basis any unique fabrication and setting requirements or any other specified areas seen as necessary or as directed by the Owner's Representative.
- l. Prior to review by Owner's representative, shop drawings shall indicate specification section or drawing reference and proof of review and approval by Contractor for Project compliance, otherwise the submittal will be rejected immediately and count as one (1) official review as per item "h" above.
- m. The Contractor shall provide two sets of 3- ring binder hard copies of all final approved shop documents and or drawings and warranties as part of the closeout of the Project.
- n. The contractor shall submit to the Owner's Representative a notarized certificate of compliance from the galvanizer with all galvanizing requirements including ASTM number and weight of coatings in ounces per square foot. The certificate of compliance shall also contain the following:
 - 1. Sole Source Responsibility: include statement that galvanizers accept sole responsibility for coatings under this Article. Galvanizer who does not accept this responsibility is not acceptable and will be rejected.
 - 2. Quality Assurance: include evidence that Galvanizer meets the requirements of ANSI Q90.
 - 3. Certificate of Compliance with Current Environmental Regulations: Galvanizer shall certify that coatings proposed for use comply with applicable environmental regulations. Contractor and Galvanizer shall be responsible for penalties assessed by governmental or environmental authorities for coatings that do not comply with current environmental regulations. All coatings shall be Lead-free.

ARTICLE 30 HISTORICAL, ARCHAEOLOGICAL OR ANTIQUE ITEMS

- a. During his excavation, site clearance and other operations may come upon, uncover or otherwise discover items of historical, archaeological or antique nature. The Contractor shall immediately stop operations at the site of the discovery and notify the Owner so that a proper evaluation may be made of its importance. The Owner shall arrange for the evaluation in a manner that shall not unduly interfere with the Contractor's operation.
- b. All such items, if designated by competent authority to be of historical, archaeological or antique nature, shall not become the property of the Contractor but shall be placed in the custody of the Owner for disposition.
- c. The Contractor shall be required to remove with care or to assist in the removal of any such item or items and to transport the same to a place of safe keeping within the City. The costs for so assisting shall be reimbursed to the Contractor if approved by the Owner.

ARTICLE 31 PROVISIONS FOR PUBLIC SAFETY & CONVENIENCE

- a. Care shall be taken to establish and maintain such methods and procedures as will not create hazards. Access to all park facilities and should be maintained in a reasonable and safe manner for the duration of the construction period.
- b. Every reasonable effort shall be made to reduce to a minimum any interference with or inconveniences to park operations and park patrons due to the construction work. Excavated material shall be trucked away and returned if the Owner deems it necessary and practical as a means for avoiding serious interference with and inconvenience to business concerns and abutters.
- c. The Contractor's attention is directed to the fact that the work on this Project is to be performed within a recreation area and adjacent to park drives and walkways which are utilized by pedestrians, bikers, joggers and vehicles. The Contractor shall be responsible for the installation of adequate precautions and other safety measures and controls deemed necessary by the Owner to protect all park users.
- d. Any automotive equipment not protected by traffic cones that is operating on a public way under this Project shall have one amber flashing warning light mounted on the cab roof or on the highest practical point of the machinery. This light will be in operation while the equipment is working.
- e. Trenches shall not be opened in park areas until all material and equipment required for the work are on the site and available for immediate use. The work at each trench shall be practically continuous, with the placing of utilities, backfill and patching (where applicable) of the surface closely following each preceding operation. When work is not in progress, trenches in areas subject to use by park patrons shall be covered with steel plates capable of safely sustaining all anticipated loads.
- f. The Contractor shall provide traffic signs, warning markers and other construction safety measures as necessary to maintain public safety and optimum traffic flow. Parking of personal vehicles will be prohibited in construction areas as directed.
- g. With suspension of construction activities during holidays, weekends and nights, the Contractor shall remove temporary traffic and/or safety control devices, as requested, and return them to their positions when work begins again. Payment for the installation and maintenance of appropriate safety provisions shall be included under the base bid price and no separate payment shall be considered.
- h. The Contractor shall without additional compensation be required to always maintain access to the Project area and property for fire apparatus and other emergency vehicles.

ARTICLE 32 PROTECTION OF EXISTING FACILITIES

- a. All existing walks, pipes, conduits, poles, fences, stairways, curbing, walls, buildings, trees and other structures which are to remain in place shall be carefully supported and protected from injury by the Contractor without additional compensation and in case of injury they shall be restored by him without compensation therefore to as good condition as that in which they were found. The value of any trees damaged shall be determined in accordance with established practices of the American Association of Nurserymen or a Registered or Certified Arborist selected by the Project Manager. Limits of liability shall not be limited to the replacement with new and immature trees.
- b. The Contractor shall, at his own expense, provide suitable and safe bridges and other crossings, where required, for accommodation of travel and to provide access to the building/property during construction, and shall remove said structures thereafter.
- c. The location of all/priorly existing utility systems is not known and therefore may not be shown on the drawings prepared for this Project. The existence of utilities shall not be considered an unusual obstacle, and the Contractor shall not be entitled to extra compensation for maintaining, protecting, or repairing these utilities. The Contractor shall use the exploratory excavation included in his contract price, whenever he/she or the Owner's representatives deem it necessary to verify, or prevent interruption of, existing services.

ARTICLE 33 AS BUILT SURVEY / PROJECT CLOSEOUT DELIVERABLES

- a. The Contractor shall cooperate with the Project Manager and shall prepare and maintain a live set of as built drawings on which shall be recorded accurately, as the work progresses, the actual "as built" quantities and locations and dimensions of all his work, indicating thereon all variations from the Contract Drawings. This record of "as built" conditions shall include ALL the work, above and below finish grade, of the Contractor and Sub-Contractors and proof of compliance prior to final acceptance of all work. **As built shall be submitted for review with monthly payment applications.**
- b. Prior to final acceptance of the work, all "as built" data shall be transferred as a separate overlay or external reference with the digital Auto CAD format files provided to the Contractor by the Owner. This work shall be performed by the Contractor's Registered Land Surveyor with the cooperation of the Contractor as required. After review and approval by the Owner the record drawings will be completed and delivered to the Owner.

1. All geographic data must be submitted in a standard real-world coordinate system. The following coordinate system is required:

Projection: Massachusetts State-plane Mainland
Datum: NAD83
Fipszone: 2001
Units: Feet
Spheroid: GRS1980

2. All digital data must be delivered in the following format:

Autodesk AutoCAD dwg. format, and one of the following file formats:

ESRI Geodatabase
ESRI Shapefile format
ESRI Arc/Info Interchange File format (e00)
Autodesk AutoCAD dxf format

3. All data must be clean of undershooting and overshooting arcs (dangles). Polygons must be snapped closed at nodes and lines must snap to one another at nodes.
4. All data must be thematically organized. There must be separate layers for road edges, road centerlines, buildings, streams, water and sewer mains, hydrants, easements, parcels, water bodies, etc. For example, if a stream is coincident with a parcel boundary, that coincident line must appear in both the parcel layer and the stream layer. All data shown on the plan shall be submitted digitally.

5. Features, which contain a third dimension or elevation data (z value) must have the elevation value within the attribute data. If elevation data is submitted in a CAD format, then the value must be part of the feature (polyline).
6. Documentation:
 - A. A list of all files being submitted is required.
 - B. CAD data shall include metadata for each layer included within the file. This documentation will provide information on the source of the data, feature type (point, line, polygon, etc.), source date, and a general description of what is shown on the layer(s).
 - C. GIS data submissions (e.g., mdb, shp file, e00 export) must include all items from B above as well as metadata for each of the features of geographic data attributes. This will include a complete description of each attribute's definition as well as a description of what each of the attribute values mean for each field.
7. Documentation on the method/s used for data collection shall be submitted for all data deliverables.
8. Documentation on horizontal and vertical accuracy shall be submitted for all data deliverables.
9. Text & Annotation:
 - A. For CAD submissions, text must be placed in separate layers. Features must not be erased to accommodate the placement of text. Text layers must be thematically separate, meaning that text associated with hydrography should be placed on a single layer, while text pertaining to a parcel's ID number should be placed on yet another separate layer. For example, should there be text on a map defining a parcel's ID number and another piece of text defining a stream name, the deliverable to the town must include two (2) separate text layers, one for the parcel ID numbers and one for the stream names.
 - B. Text associated with a GIS formatted data deliverable must be in one of four forms.
 1. A label attribute. This would be related to the feature's attribute fields as previously described above in Section 6.
 2. Annotation subclass. This would be separate annotation included within a feature data set as a series of text attribute tables (TAT).
 3. Annotation coverage (e00 export). This would be an entirely separate feature class containing text or annotation only.
 4. Feature linked annotation as prescribed in ArcGIS.
10. The Owner shall supply the Contractor with electronic files (AutoCAD) for the sole purpose of creating As Built Drawings.
11. **As built tasks shall be assigned a monetary value equal to 2 percent (2%) of Initial Contract value or \$20,000 (whichever is greater) and be included as an item in the approved Schedule of values.**
12. **Contractor shall submit the final approved as built within twenty-eight (28) consecutive calendar days of Issue of Punch list and:**
 - a. **Prior to Notice of substantial completion.**
 - b. **Prior to Approval of final payment application.**

ARTICLE 34 RUBBISH REMOVAL

- a. The Contractor shall remove all rubbish, waste, tools, equipment, and appurtenances caused by and used in the execution of the work; but this shall in no way be construed to relieve the Contractor of his primary responsibility for maintaining the site clean and free of debris, leaving all work in a clean condition. The Contractor shall always keep the site free of rubbish and construction debris.
- b. The Contractor shall provide sufficient metal barrels or dumpsters into which all refuse and garbage shall be deposited. All containers shall have tight fitting covers. These shall be secured overnight or removed daily.
- c. At the end of each work week, the Contractor shall thoroughly clean premises of rubbish and debris of any nature and remove such from the premises.

ARTICLE 35 PROJECT CONSTRUCTION SIGN

- a. Contractor will provide and temporarily install one monolithic 48" high X 96" wide X ¾" thick Project sign and 2- 4"x 4" posts to identify the Project at a location to be determined in the field by the Owner.
- b. The Project sign shall conform exactly to the City of Worcester's DPRC prototype Projects sign including but not limited to size, backer material, font style, size and relief, capitalization, color, weather proofing, fasteners and fastener locations.
- c. **Final Graphic and language will be provided by the Owner** (Background color is forest green, text is white). **The sample below is for reference only.**
- d. The Contractor shall be responsible installation and removal of sign and posts.

 **The City of Worcester**

**Blithewood Park
Parking Lot Lighting**

**CITY-WIDE PARK & PLAYGROUND IMPROVEMENT PROGRAM
"PRIDE IN OUR PARKS"**

City Manager
Eric D. Batista

Department of Parks, Recreation & Cemetery
Robert C. Antonelli, Jr., Commissioner

Worcester City Council
Joseph M. Petty, Mayor

Consultant
Ray Dunetz Landscape Architecture, INC.
179 Green St., Bnston MA

General Contractor
TBD

For Inquiries
Please Contact DPRC
PH: 508-799-1190
Or
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Jenny Pacillo
George J. Russell
Kathleen M. Toomey

THIS CAPITAL IMPROVEMENT PROJECT HAS BEEN MADE POSSIBLE THROUGH FUNDING PROVIDED BY :
A CITY COUNCIL TAX LEVY APPROPRIATION

PLEASE PARDON OUR APPEARANCE AS WE ENHANCE THIS FACILITY FOR FUTURE GENERATIONS

End of DPRC Special Conditions

PROJECT SPECIAL SPECIFICATIONS

General

1. The following special standard specifications are to be used on contract work awarded by the City of Worcester DPW and DPRC. They are intended to supplement, support and suit this specific Project.

ARTICLE 36 DEMOLITION, SITE EXCAVATION & PREPARATION

- a. The work shall consist of excavating, removing and legal disposal of surplus if any, vegetation, earth, boulders, masonry, existing pavements, building materials, footings, appurtenances and other materials encountered of whatever nature that is unsuitable for the construction and improvements of finished conditions. Excavated to the depth necessary to install according to the specifications, plans and details plans provided in the construction bidding documents.
- b. **Include in base bid cleaning and/or clearing of any debris or obstructions in the existing electrical and communication conduits in the concrete light pole bases and between existing pull boxes and as necessary for finished work. Install pull tape(1250lb) in all empty conduits as proof of continuity.**
- c. Location of existing utilities shall be verified before excavation commences. The Drawings are based on available utility record drawings and site observation.
- d. The excavation shall be carried out to such depths that sufficient materials will be left above the designated grade to allow for compaction to this grade. Should the Contractor, through negligence or other fault, excavate below the designated lines, he shall replace such excavation at his own expense. The Owner shall have complete control over excavation, moving, placing, and disposition of all material. Existing materials/objects determined to be unsuitable or not required or used, as determined by the Owner, for finished conditions shall be disposed offsite at no additional cost.
- e. The Contractor shall inform and satisfy himself as to the character, quantity, and distribution of all material to be excavated. No payment shall be made for any excavated material which is used for purposes other than those designated or implied.
- f. If it is necessary in the process of the work to interrupt existing surface drainage, sewers, or to pass under drainage, conduits, utilities, or similar underground structures, or parts thereof, the Contractor shall protect it or provide temporary services. The Contractor shall, at his own expense, satisfactorily repair all damage to such facilities or structures that may result from any of his operations or from negligence during the period of the Contract.
- g. No excavation shall be started until the Owner has approved the proposed area of construction.
- h. Excavation shall be performed at such places as are indicated on the Drawings, to the lines, grades and elevations shown or as directed by the Project Manager and shall be made in such manner that requirements for the formation of the sub-grade can be followed. Unless directed otherwise any disturbed existing rimmed structures shall be adjusted flush to final adjacent grade.
- i. Existing pavements and base courses shall be carefully saw cut or core drilled and removed to the lines indicated and, in a manner, to obtain sound edges or connections, and so as not to disturb or damage existing buildings, utilities, pavements, and base coats which are to remain.
- j. Unit pavers, such as granite brick and concrete, shall be carefully removed and stockpiled for reuse, if required.
- k. All excavations shall be opened using minimum, straight, parallel cuts through pavement and base materials, and other excavations opened using square or rectangular cuts or as directed to minimize removal while permitting regular, straight-line repair and patching.
- l. No excavation shall commence in any until the pavement covering the proposed excavation has been marked for cutting.

- m. Excavated areas shall be made safe for the residents at the end of each workday.
- n. Transport excavated materials, waste materials, trash, and debris and legally dispose of it off City property.
- o. Prevent, minimize and control groundwater and/or surface water to accumulate in excavations. Remove water to prevent the undercutting of footings and soil changes detrimental to the stability of sub-grades, foundations and granite, brick or concrete paving.
- p. Payment for site excavation and preparation work shall be considered incidental to the individual items installed. No separate payment shall be made for site excavation and preparation work. No separate payment shall be made for all labor, equipment, tools and incidentals necessary to complete the work to the satisfaction of the City, including transportation and disposal of excavated materials.
- q. It is the responsibility of the Contractor to verify the accuracy of all survey information provided by the Owner prior to commencing excavations or filling operations. Commencement of these operations constitutes acceptance of the survey information as appropriate to meet the intent of the Contract.
- r. Soil testing, if required, for all materials to be reused on-site or removed and disposed of off-site, shall be the responsibility of the Contractor. The City reserves the right to obtain its own test results from the same sample as the Contractor without penalties to the Owner. The Contractor is required to obtain a large enough sample to divide with the Owner for this proposes.
- s. Transport excavated materials, waste materials, trash, and debris and legally dispose of it off City property.
- t. Surplus excavated material not needed as specified above shall be hauled away and disposed of by the Contractor at no additional cost to the Owner, at appropriate locations, and in accordance with arrangements made by him. Disposal of all rubble shall be in accordance with all applicable local, state and federal regulations.
- u. The Contractor shall comply with Massachusetts regulations (310 CMR 40.0032) that govern the removal and disposal of surplus excavated materials. Materials, including contaminated soils, having concentrations of oil or hazardous materials less than an otherwise Reportable Concentration and that are not a hazardous waste, may not be disposed of at locations where concentrations of oil and/or hazardous material at the receiving site are significantly lower than the levels of those oil and /or hazardous materials present in the soil being disposed or reused.
- v. If required: In response to the State/ Federal imposed quarantine regarding the Asian long-horned beetle infestation, the protocol for handling and disposal of wood-based materials within the Project area by the Contractor shall be to:
 - i. At a minimum, process all onsite vegetative, wood and cellulose based materials (trees, shrubs, root, stumps, branches, leaves, etc. **twelve inches and under in diameter** and designated for disposal) to a size of less than one inch as measured in two directions by approved mechanical means (woodchipper) prior to disposal/removal offsite. All other existing vegetation, wood and cellulose based products; tree trunks, stumps, branches etc., **greater than twelve inches, in diameter** and designated for removal/disposal shall be delivered to the current transfer station.
 - ii. Contractor shall be responsible to comply with changes or current quarantine protocols for the duration of the Project.

ARTICLE 37 **CAST IN PLACE CEMENT CONCRETE**

- a. The scope of work under this article shall consist of furnishing all labor, materials, equipment, transportation, reinforcing, forming, finishing and curing of cast in place concrete for the construction of concrete pads, footings and walls for the structures and site improvements as specified herein and according to the plans and details shown in the construction drawings and the balance of any concrete construction necessary to completion of the Project.
- b. Unless otherwise specified, all materials shall conform to the relevant provisions of Section 901, **Cement Concrete Masonry**, and Section M4, **Cement and Concrete Materials** of latest edition of The Massachusetts Department of Public Works Standard Specifications for Highways, Bridges and Waterways.

- c. At a minimum, concrete to be used shall be Class 4,000 PSI - minimum 28-day compressive strength, and cement content of 610 lbs. per cubic yard for $\frac{3}{4}$ " coarse aggregate. Concrete shall be discharged at site within 90 minutes after batching.
- d. All horizontal (pad) concrete construction shall be air entrained which shall be 4.5% to 7%, as determined by ASTM C231.
- e. Formwork shall be sufficient to resist pressure of the concrete without springing and tight enough to prevent leakage of mortar. Forms shall be staked, braced, or tied together to maintain their position and shape when concrete is compacted in place. Forms shall be clean and shall produce an even finish for exposed surfaces. Forms shall not be removed for at least twenty-four (24) hours after concrete has been placed, or longer if directed by Owner.
- f. Preformed expansion joint filler shall be non-extruding and resilient non-bituminous type conforming to AASHTO-M135.
- g. As a DPRC minimum standard, reinforcing for all horizontal pads shall be welded wire fabric, 6" X 6", W1.4 X W1.4 gauge cold-drawn steel wires formed into a mesh and welded together at points of intersection in conformance with ASTM A-185-70. Welded wire fabric shall be furnished in mats and not in rolls.
- h. All references to 'processed gravel', gravel borrow', or 'gravel' shall conform to Article for Gravel Borrow.
- i. Curing and protection shall be accomplished by applicable optimum method specified in Section 901, **Cement Concrete Masonry**, and Section M4, **Cement and Concrete Materials** of latest edition of The Massachusetts Department of Public Works Standard Specifications for Highways, Bridges and Waterways.
- j. The Contractor is responsible for the quality and strength of the concrete. Inferior concrete, including that damaged by frost action shall be removed and replaced at no additional cost to the Owner.
- k. The Contractor shall be responsible to repair or replace any concrete exhibiting deficient materials or workmanship within one (1) year of final acceptance.
- l. Payment for concrete and concrete work shall be considered incidental to the individual item in which the concrete is used. No separate payment shall be made for concrete work.

ARTICLE 38 GRAVEL BORROW

- a. The scope of work under this article shall consist of furnishing all labor, materials, equipment and transportation required for placement and compaction of approved processed gravel according to the plans and details plans and details shown in the construction drawings and the balance of any subbase construction necessary to the completion of the Project.
- b. All references to 'processed gravel', gravel borrow', or 'gravel base' shall conform to this Article.
- c. Gravel borrow shall consist of inert material that is hard durable stone and coarse sand, free from loam and clay, surface coatings and deleterious material. Gravel borrow containing recycled bituminous and concrete material shall not be used in areas of pervious finish grade (i.e., ball fields, skinned, and lawns areas, etc.).
- d. Gradation requirements for gravel borrow shall be determined by AASHTO-T11 and T27 and shall conform to the following:

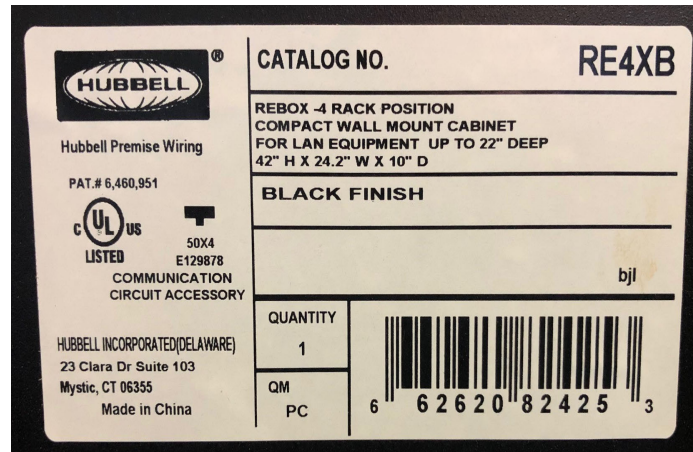
<u>Sieve</u>	<u>Percent Passing</u>
2"	100
$\frac{1}{2}$ "	50-85
No. 4	40-75
No. 50	8-28
No. 200	0-10

- e. The maximum size of stone in gravel shall be two (2) inches, largest dimension.

- f. Gravel shall be spread and compacted in layers not exceeding six (6) inches in depth compacted measurement and all layers shall be compacted to not less than ninety-five percent (95%) of the maximum dry density of the material as determined by the Standard AASHTO Test Designation T99 compaction test Method C at optimum moisture content.

ARTICLE 39 DPRC STANDARD SECURITY CAMERAS & PADLOCKS –(NIC)

- a. ***Include in Base Bid \$125,000.00 for allowance to furnish and install cameras, associated appurtenances and ten (10) DPRC standard master key and keyed-alike padlocks. The Owner will be responsible to secure specifications and vendor pricing for products, installation labor and connection of security camera system. Project Contract terms apply.***
- b. Include in Base Bid, to furnish & install, horizontal & vertical runs, splices, required connections and appurtenances, and testing of 1500 LF of fiber optic cable, type 12 strand single mode outdoor plant fiber.



- c. Include in Base Bid, to furnish, install, one (1) locking cabinet for security equipment and appurtenances. Model Hubbell Catalog No. RE4XB, as indicated below, or approved equal. Furnish and install one duplex for equipment use. **Security equipment cabinet shall be mounted INSIDE of new properly sized electrical cabinet or Building.**
- d. Communications conduits shall be 2-inch type HDPE continuous roll, smooth wall SDR 09 between handholes, communication conduits run into light poles can be Schedule 40 PVC. Electrical and HDPE conduits shall be in separate handhole/pullbox.
- e. Include in base bid, to coordinate, furnish and install on each pedestrian light pole with communication handhole, one pole mounted NEMA 3R rated utility cabinet, with stainless steel back panel, include labor and materials to energized duplex outlet for security cameras, security camera appurtenances. Cameras and appurtenances inside pole mounted utility cabinet are not included in Base Bid (see item “a” of this Article). Furnish and install manufacturer’s standard auxiliary wire exits (2). Furnish and install manufacturer’s standard and provided “trac nut” hardware, include fabrication of custom H-bracket mounts for the utility cabinet and camera. Utility cabinet standard shall be Stahlin Part# RJ1614HW-P, Type# 1,3R,4X,6P,12 painted black or approved equal.

ARTICLE 40 DPRC STANDARD EXTERIOR CABINET ENCLOSURES

1. Electrical Service, Public Announcement and Water Service Cabinets
- Provide outdoor NEMA 3R stainless steel cabinet sized to contain the required appurtenances included in plans, specifications, and details.
 - Cabinet shall be manufactured from 12GA minimum stainless steel. Provide the cabinet with continuous piano hinge(s) welded in place, and stainless-steel pad lockable handle with a three-point catch.
 - Coordinate dimensions to provide a 6” minimum clear workspace between equipment and cabinet or as per relevant code, whichever is more stringent. Mount water, electrical and PA cabinet on a 12” thick level concrete pad with sleeve style masonry anchors at six minimum locations.
 - Public Announcement (PA) cabinet dimension shall be 18” W X 24” H X 18” D.

- e. Submit shop drawings for review.
 - f. Concrete foundation shall extend six inches beyond the footprint of the cabinet on all sides and be six inches above finished grade.
 - g. Location of the concrete pad to be verified by the Owner.
 - h. Electrical and PA cabinets exterior shall have a powder-coated finish, color is black.
 - i. Electrical service cabinet to include a thermostatically controlled, diagonal cross ventilation, filtered, fan rated for 20 ACH. with fixed stainless steel exterior louvers.
 - j. Refer to Article 42 for dimensions of electrical service cabinet (sample located at Holmes Field, 210 Plantation St.), sized for future expansion, and DPRC standard electrical and communication pull box for this Project.
2. Irrigation Controller Cabinet
 - a. Shall be Strong Box Model SB-22SS (24" W X 38" H X 17" D).
 - b. Mount cabinet on a 12" thick level concrete pad with sleeve style masonry anchors at six min. locations).
 - c. Concrete foundation shall extend six inches beyond the footprint of the cabinet on all sides and be six inches above finished grade.
 - d. Location of the concrete pad to be verified by the Owner.
3. **Article 40 supersedes all references to exterior electrical service, PA, water service and irrigation controller cabinets ns pull box/handhole in Bid Drawings and Specification.**

ARTICLE 41 DPRC STD. CHAIN LINK FENCE FRAMEWORK & FABRIC (NIC)

General

This work includes the installation of Polymer color coated fence framework and fabric of various heights in accordance with these specifications and in conformity with the details, lines and grades shown on the plans or established.

Construction Requirements

1. Locate and install all posts in concrete (4000 psi at 28 days), with minimum depth of 48 inches below finish grade and minimum diameter of twelve inches or four times the diameter of post, whichever is greater. The typical spacing of post shall be 120 inches max on center. Typical spacing of post on the precast concrete wall shall be the middle of top "anchor" block (Designed spacing of 92 inches O.C.). **Refer to plans for post concrete footing depth and size for batting cage, bullpen, backstop and netting framework.** Install plumb and true to line and grade and to the height as indicated within the drawings. All posts shall have continuous horizontal rails at the top, middle (for fence height greater than 72 inches), and bottom. In addition, all end and corner posts shall be braced to the nearest line post with center brace rails. Outside sleeve type top rail couplings shall be placed a maximum of twelve (12) inches from posts.
2. **Owner shall be contacted 48 hours prior to install of all fence and gate post/footings for inspection and approval of excavation/footing size.** Failure to notify entitles the Owner to pick at random 20 percent of installed post and concrete footing(s) for removal and inspection to verify they meet Specifications. Replacement and/or reinstall of new materials shall be at no additional cost to the Owner.
3. **Article 41 supersedes all references chain link fence framework and fabric (with no netting) in Bid Drawings and Specification.**
4. Chain link fences shall have continuous top and bottom rails. Refer to plans for rail layout for batting cage, bullpen and backstop and netting framework. The top and bottom edges of fence fabric shall have knuckled edges. Fabric shall be stretched uniformly taut and as tight as possible, true to line and grade and complete in all details. Install tension bars at corners.

5. All chain link fence fabric shall be fastened on the outside of the posts unless directed otherwise by the Owner. The fabric shall be properly stretched and securely fastened to the posts and between posts the top and bottom of the fabric shall be fastened to the horizontal braces as specified, herein. The fabric shall be fastened to end and corner posts with tension bars and stretcher bar bands spaced at one (1) foot intervals.
6. Fabric shall be aligned so that top and bottom shall extend one half the height of the “diamond” beyond outer edge of top and bottom of the horizontal rail. The fabric shall also be one (1) inch maximum above finish grade. The fabric shall be tied (as per item 5 below) to all line posts, top, middle and bottom rails every six (6) “diamonds” as measured horizontally or vertically. Overlapping fence fabric sections shall overlap one full height of the “diamond” and be centered on the horizontal rail.
7. All fabric shall be fastened to all line posts and horizontal rails with 0.020" thickness, 200/300 series stainless steel ½" wide bands, with a minimum breaking strength of 850 lbs., 1/2" band capacity ear-lokt design buckles to be manufactured with 0.050" thick material, 201/301 series stainless steel. Fabric for bleachers shall be attached at each vertical post only, three bands per post. All bands shall be pulled tight and raw ends of steel bands shall be secured in buckle by folding ear tabs around steel bands as per manufacturer's recommended installation procedure. No sharp edges shall protrude from band-it buckles.

Materials

Fabric, posts, gate frames, gate hinges, gate stops, braces, rails, stretcher bars, truss rods, post caps, stretcher bar bands, tension wire shall, and other parts shall be of steel, pressed steel or approved equal except that post tops and rail ends may be of aluminum. **No malleable iron, ductile iron materials will be accepted.** The Contractor shall supply a notarized mill certification from manufacturer that all materials used have been tested and fully comply with the specifications specified herein.

1. Fabric: The fabric shall consist of color coated, class 2b thermally fused and bonded, 9-gauge core wire, 2-inch diamond mesh typical and 1.75-inch diamond mesh for fabric adjacent to tennis courts. All fabric shall be knuckled at both selvages. Public side of fabric shall be installed in accordance with the Owner's direction. The height of the fabric as shown on details shall be typically one piece unless directed otherwise by Owner. Fabric for bleachers will be as per manufacturer's standard.

(a) *Galvanized Coated Fabric:* All materials used shall conform to the requirements of ASTM A392 Class-2, or ASTM A491. Except aluminum alloy items, they shall conform to ASTM-B211, B221 and B429.

2. Framework: Type II, Group IC round steel pipe (electric resistance welded), cold-formed as per ASTM F1043-00 Standard, with minimum yield strength of 50,000 psi. The external zinc coating shall be Type B, zinc with polymer film, 0.90 oz / sq. ft, minimum zinc coating with a chromate conversion and a verifiable polymer film. The internal coating shall be Type B, zinc 0.90 oz./sq.ft. Minimum or type D, zinc pigmented, 81% nominal coating with 0.30 mils minimum thickness. Gate framework joints shall be welded and coated in accordance with Practice A780, employing zinc-rich paint. Refer to plans for framework sizes for batting cage, bullpen, backstop and netting framework.

(a) End, Corner and Pull Post. Galvanized steel, physical pipe dimension and weights are as follows:

- (1) Up to 12-foot fabric height: 2.875-inch OD pipe, 4.64-lbs. /lin. ft.
- (2) **For basketball and tennis courts: 4.000-inch OD pipe, 6.56-lbs. /lin. ft.**
- (3) For combo batting cage/bullpen and backstop: 4.000-inch OD pipe, 6.56-lbs. /lin. ft.
- (4) Maximum Spacing between all posts is 10'- 0" On Center.

(b) Line Posts. Galvanized steel, physical pipe dimension and weights are as follows:

- (1) Up to 12-foot fabric height: 2.375-inch OD steel pipe, 3.12-lbs. /lin. ft.
- (2) **For basketball and tennis courts: 2.875-inch OD pipe, 4.64-lbs. /lin. ft.**
- (3) For combo batting cage/bullpen and backstop: 4.000-inch OD pipe, 6.56-lbs. /lin. ft.
- (4) Maximum Spacing between all posts is 10'- 0" On Center.

(c) Gate Posts. Galvanized steel, single gate widths, physical pipe dimension and weights as follows:

- (1) Up to 6 feet: 2.875-inch OD pipe, 4.64-lbs./linear ft.

- (2) Over 6-feet to 13 feet: 4.0-inch OD pipe, 6.56-lbs./ linear ft.
- (3) Gate frames as per ASTM F 900-94.

(d) Rails (Top, bottom, middle and intermediated rails): Galvanized steel, manufacturer's longest lengths joined by six-inch (6") long sleeves, rail shall run continuously along top of fence. Bottom rail shall be joined at line posts with boulevard clamps. Minimum pipe sizes and weights are as follows:

- (1) 1.660-inch OD pipe, 1.82-lbs. /lin. ft. minimum.

(2) Top, Bottom, Middle and Intermediate rails are required for fencing adjacent to the sports court footprint. Fence framework six feet high and above shall include top, middle, and bottom rails.

(e) Couplings: Expansion types, approximately 6-inches long, install one sleeve for each 500-foot run. Standard couplings are installed at each rail end to form one continuous top rail.

(f) Attaching Devices: Provide fittings for attaching top rail securely to each gate corner pull and end post.

(g) Sleeves: Galvanized steel pipe not less than 6 inches long and with inside diameter not less than 1/2-inch greater than outside diameter of the post pipe. Provide steel plate closure welded to bottom of sleeve of width and length not less than 1-inch greater than outside diameter of sleeve.

(h) Post Brace Assembly: Manufacturer's standard adjustable braces at end of gateposts and at both sides of corner and pull posts. Provide horizontal brace located at mid-height of fabric. Use the same material as top rail for brace, and truss to line posts with 3/8-inch diameter galvanized steel truss rods and adjustable tightener.

(i) Post Tops: Galvanized steel, screwed and weather-tight closure cap for each tubular post. Furnish caps with openings to permit passage of top rail.

(j) Tension Bars: Galvanized steel, one-piece lengths equal to full height of fabric, with minimum cross-section of 3/16 inch x 3/4 inch. Provide tension bar for each gate and end post, and two for each corner and pull post. Stretcher Bar Bands will be manufacturer's standard.

(k) Gate Cross-Bracing: 3/8-inch diameter galvanized steel truss rods and adjustable tightener.

(l) Non-Shrink, Non-Metallic Grout: Premixed, factory-packaged, non-corrosive, non-staining, non-gaseous, exterior grout approved by the Engineer.

(m) Single and Double Swinging Gate and Hardware: Swing gates and hardware shall be manufactured to meet the requirements of ASTM F900. Unless it is indicated otherwise, and to meet ADA requirements, the minimum clear opening for all single gates (as measure with gate perpendicular to framework) shall be 36 inches.

(1) Hinges. Industrial butt hinges, size and material as required for the gate size. Non-lift-off type, offset to permit 180-degree gate opening. Provide one pair of hinges for each leaf, gates eight feet and taller in nominal height shall have three hinges per leaf. Spot-weld to post and paint (non polymer coated), to prevent rotational movement.

(2) Latch (for both single and double gates). Pressed steel, industrial series fulcrum gate latch, straight fork type, provide latch catch for double gates, designed to permit operation from either side of gate, with padlock eye as integral part of latch catch. Clamped and bolted through or welded to frame to prevent rotational movement. Provide two latches and catch for double gates. All gates should be equipped with one gate stop.

(3) Sleeves if required for fence shall be galvanized steel pipe conforming to ASTM F1043 sizing as required to accommodate posts.

Polymer Coated Framework

Shall meet the above-mentioned specifications for materials. The framework shall be subjected to a complete thermal stratification coating process (multi-stage, high-temperature, multi-layer) including, as a minimum, a six-stage pretreatment/wash (with zinc phosphate), an electrostatic spray application of an epoxy base, and a separate electrostatic spray application of a polyester finish. The material used for the base coat shall be a zinc-rich (gray color) thermosetting epoxy; the minimum thickness of the base coat shall be two (2) mils. The material used for the finish coat shall be a thermosetting "no-mar" TGIC polyester powder; the minimum thickness of the finish coat shall be two (2) mils. The stratification-coated pipe shall demonstrate the ability to endure a salt-spray resistance test in accordance with ASTM B117 without loss of adhesion for a minimum exposure time of 3,500 hours. Additionally, the coated pipe shall demonstrate the ability to withstand exposure in a weather-ometer apparatus for 1,000 hours without failure in accordance with ASTM D1499 and to show satisfactory adhesion when subjected to the crosshatch test, Method B, in ASTM D3359. The polyester finish coat shall not crack, blister or split under normal use. Painted framework and accessories are not acceptable, welded joints shall be top coated to match frame color. The color of the polymer coated framework, and accessories shall be black and in accordance with ASTM F934.

ARTICLE 42 ATTACHMENTS

Project Electrical Cabinet – Mass electrical apparatus or approved equal. (one page)

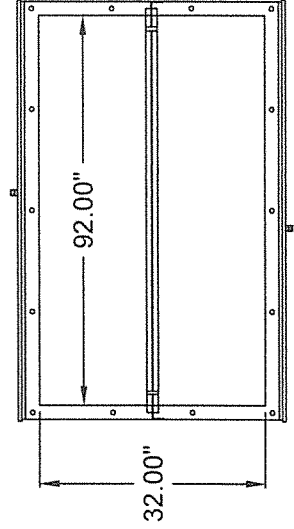
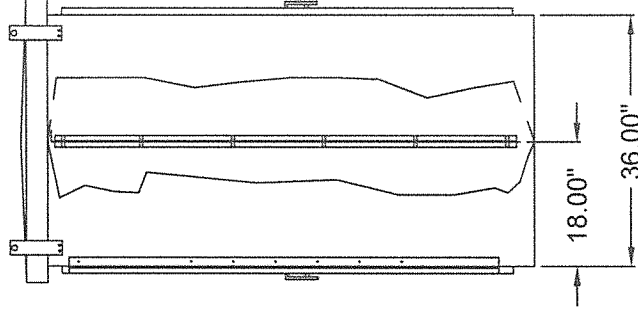
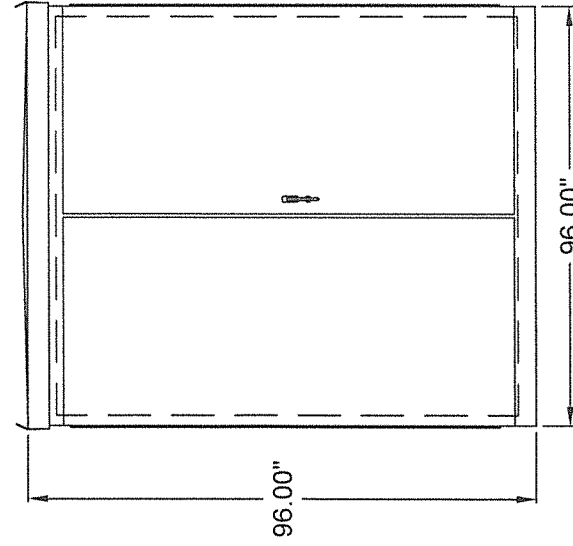
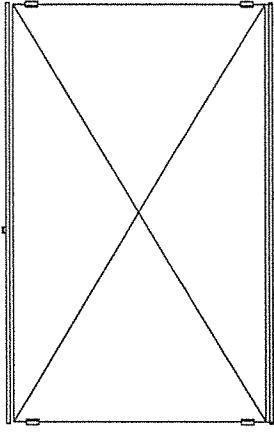
Project Standard communication and electrical precast concrete pull box, frame and covers or approved equal (six pages)

Project Standard Holophane Pole and Fixture (eleven pages)

End of DPRC Special Conditions and Specifications.

NOTES:

1. Material: 12GA 304-2B Stainless steel
2. NEMA Type: 3R Rating
3. Pad mounted enclosure
4. Open bottom
5. Stainless steel full length piano hinges.
6. Overlapping double doors front and back, gasketed with door restraints
7. S.S. Padlockable handle with 3-point latching mechanism with nylon rollers at top and bottom
8. Door frame double flanged on all four sides.
9. (2) 3/4" Fire rated plywood mounting panels.
10. Interior and exterior of enclosure natural mill finish.
11. U.L. Listed
12. Removeable lifting ears
13. No ventilation.



MASS ELECTRICAL APPARATUS
42 Oakville Street
Lynn, MA
PHONE: (781) 592-0410 FAX: (781) 592-0986

TOLERANCES UNLESS OTHERWISE SPECIFIED		TITLE: N3R:96WX96HX36D	
ANGLES +/- 1 DEGREE	ENG. R.T.F.	SIZE	Catalog No.
2 PLACE DECIMAL +/- .03	DATE 05/17/18		
3 PLACE DECIMAL +/- .005	APPROV	SCALE	SHEET NO. PAGE
		7	8

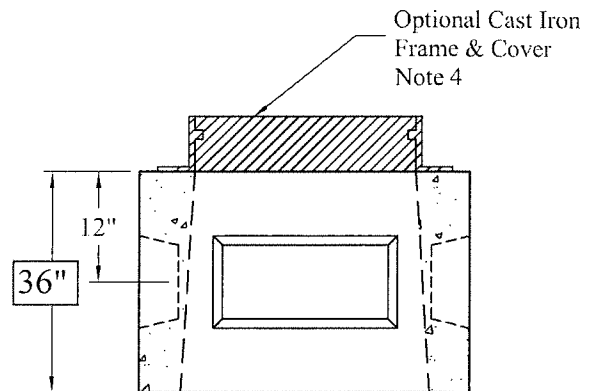
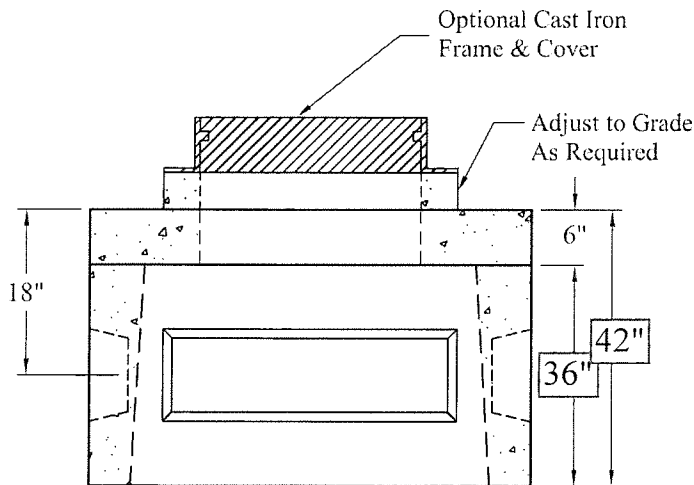
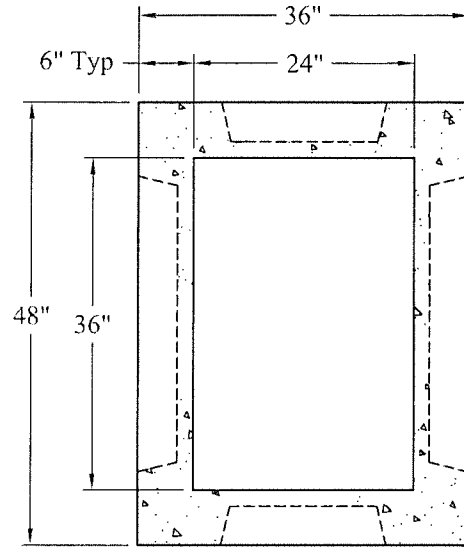
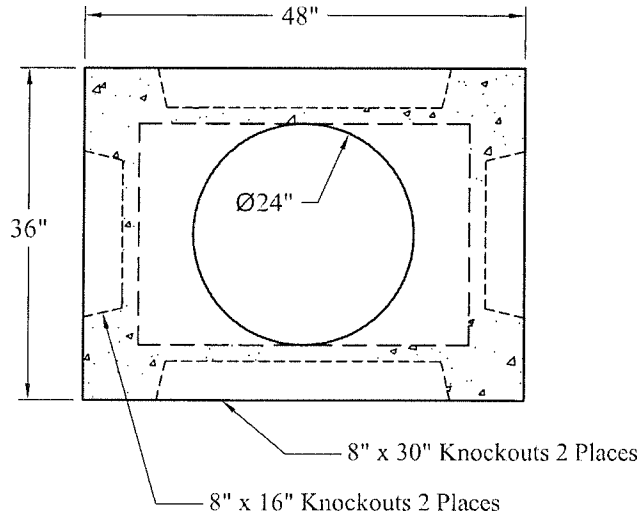
1-800-639-2199

Fax (603) 224-2927

Electrical Pull Boxes 24" x 36" x 24" Inch Pull Box (v)

Phoenix Precast Products

Phoenix Precast Products



Est Weight:

Top Slab:	660 Lbs
Base:	2355 Lbs
Total:	2955 Lbs

General Notes

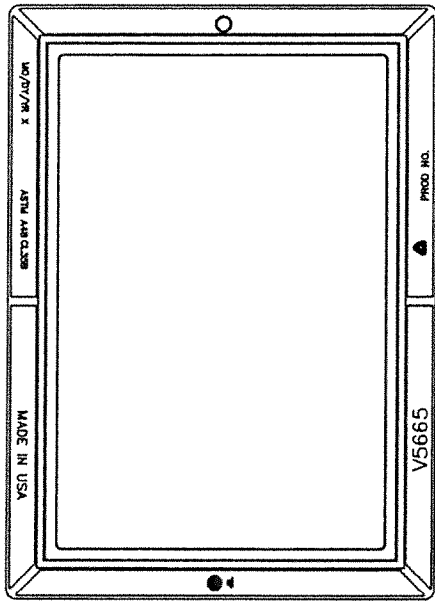
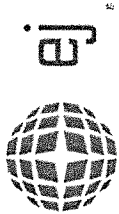
- 1.) Concrete fc: 4,000 psi @ 28 Days Minimum
- 2.) Reinforcement Steel: ASTM A615 Grade 60 Rebar
- 3.) Design Loading: AASHTO-HS20-44
- 4.) Rectangular Cover N1878 B72

Phoenix
Precast
Products

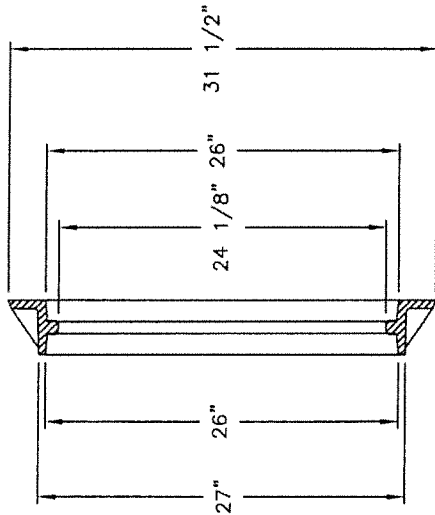
24" x 36" x 36"
Pull Box

P/N:

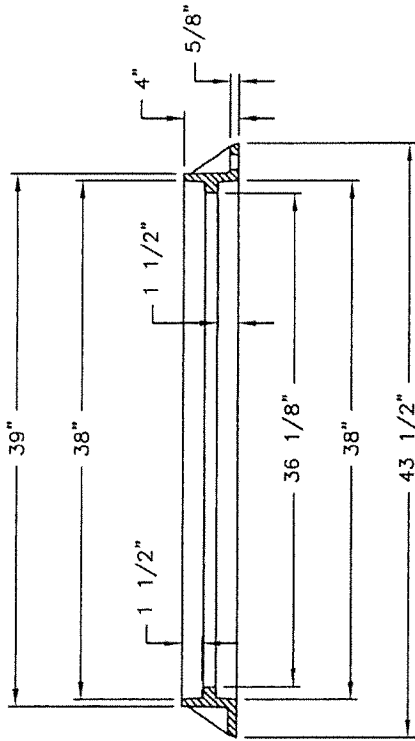
V5665 Frame



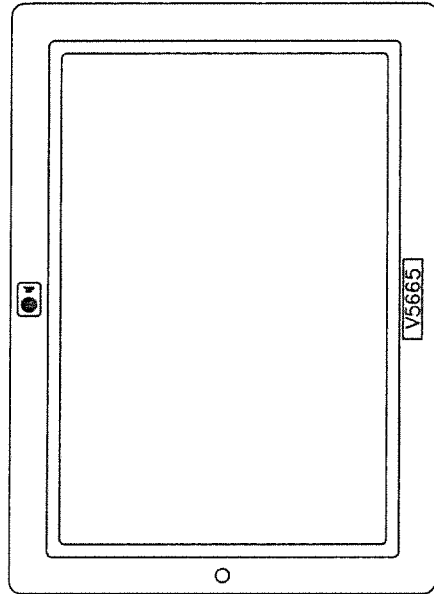
PLAN VIEW



FRAME SECTION



FRAME SECTION



TOP FLANGE VIEW

Product Number
45665010

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- Designates Machined Surface

Certification
-ASTM A48

-Country of Origin: USA

Drawing Revision
05/02/2003 Designer: DEW
09/08/2016 Revised By: DVD

Disclaimer
Weights (lbs./kg) dimensions (inches/mm)
and drawings provided for your guidance. We
reserve the right to modify specifications without
prior notice.

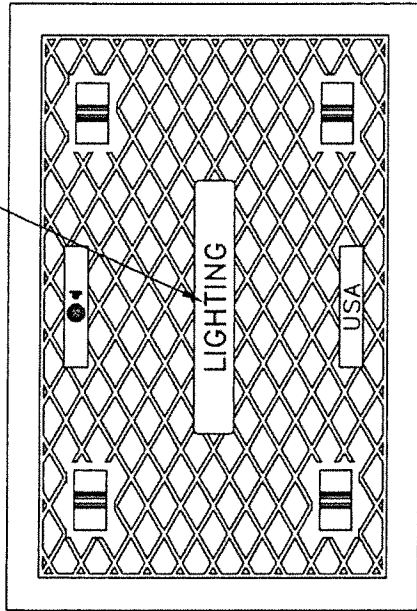
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registered marks, patents, trade secret information,
and/or know how that is the property of EJ GROUP, Inc.
Copyright © 2012 EJ GROUP, Inc.
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Contact
800 626 4653
ejco.com

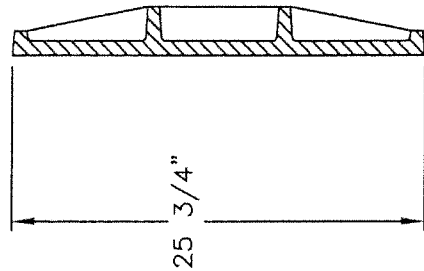
V6665 Cover



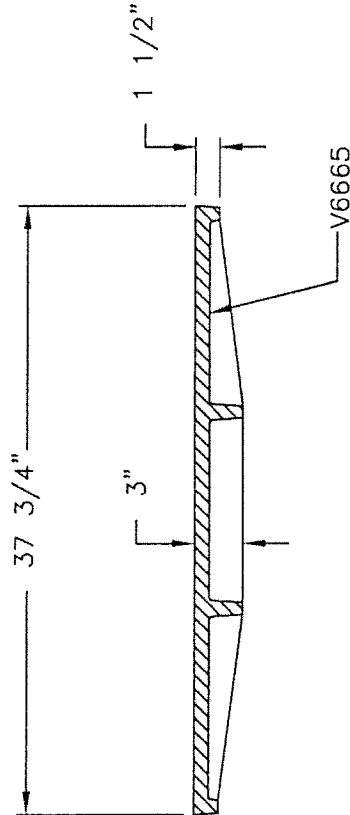
1 1/4" SHARP FACE
GOTHIC



COVER TOP VIEW

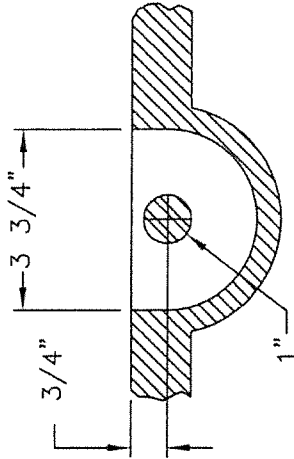


COVER SECTION



COVER SECTION

PROD NO.
MO/DY/YR X
ASTM A48
CL35B



(4) TYPE 4 STAINLESS STEEL PICKBARS
PICKBAR DETAIL

Product Number
46665022

Design Features

- Materials
Gray Iron (CL35B)
- Design Load
Heavy Duty
- Open Area
n/a
- Coating
Undipped
- Designates Machined Surface

Certification
-ASTM A48

-Country of Origin: USA

Drawing Revision

06/12/2006 Designer: TCL
6/3/2015 Revised By: DAE

Disclaimer

Weights (lbs./kg) dimensions (inches/mm) and drawings provided for your guidance. We reserve the right to modify specifications without prior notice.

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Contact

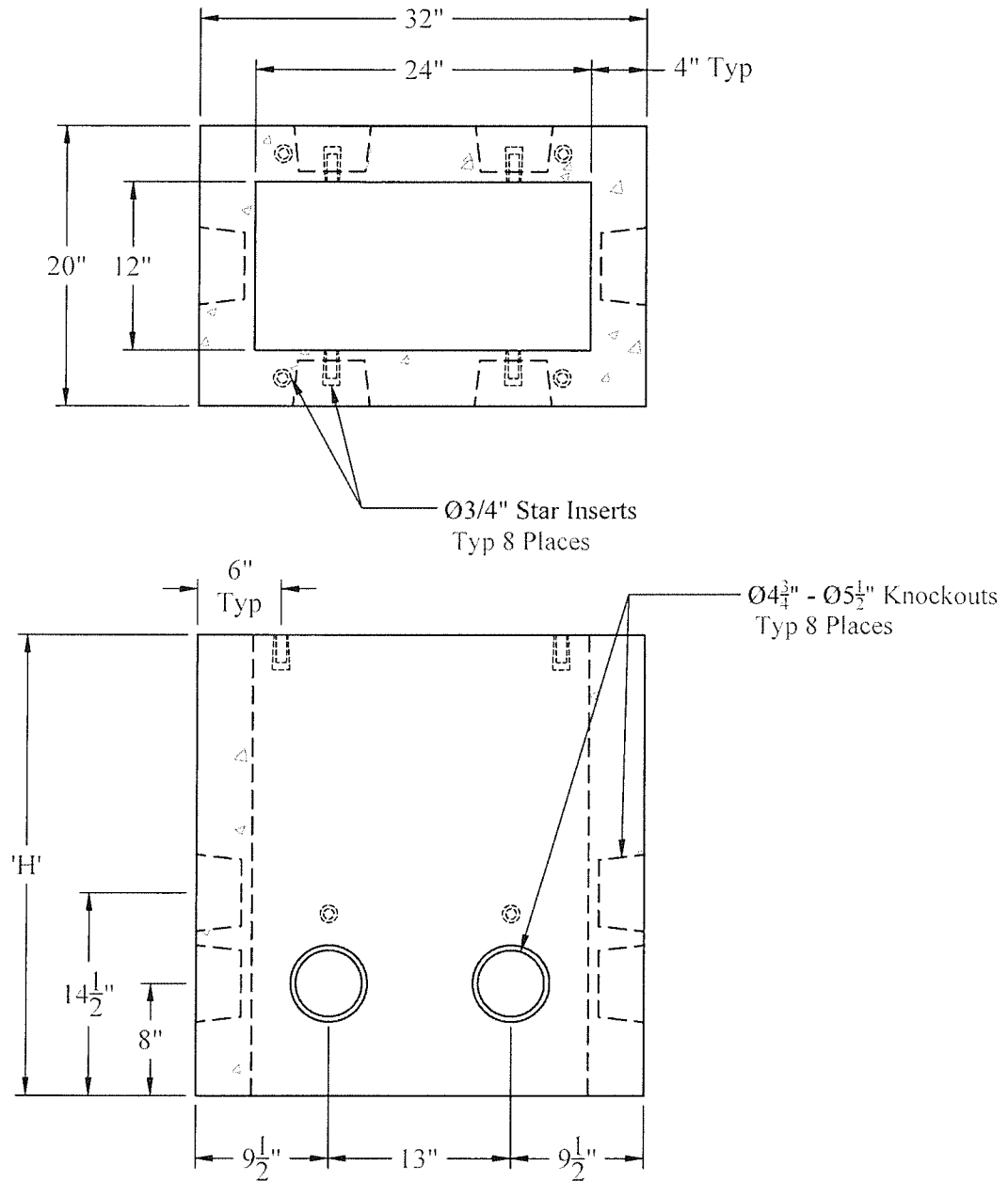
800 626 4653
ejco.com

1-800-639-2199

Fax (603) 224-2927

Electrical/Pull Boxes/12 X 24 Inch Pull Box_(v)_Rev0

Phoenix Precast Products



Dim 'H'	Est Weight:	P/N:
20"	600 Lbs	HH-12X24BOSSHT
33"	1,000 Lbs	HH-12X24BOSTALL

General Notes

1. Concrete: $f_c = 4,000$ psi @ 28 Days Minimum
2. Steel Reinforcement Conforms to Latest ASTM Specification:
ASTM A-615, Grade 60 Black Deformed Bars
3. Boston Standard Pull Box

Phoenix
Precast
Products

12" x 24" Electric
Handhole

77 Regional Drive

Concord, NH 03301

Phoenix Precast Products

EJW EAST JORDAN
IRON WORKS EST. 1883

800-626-4653

www.ejiw.com

MADE IN USA

PRODUCT NUMBER

00801312

CATALOG NUMBER

8013Z1

LV1325 FRAME

LOAD RATING

HEAVY DUTY

COATING

UNDIPPED

SPECIFICATION

FRAME-GRAY IRON

ASTM A48 CL35B

OPEN AREA

NA

✓ DESIGNATES

MACHINED SURFACE

DRAWN

SBB

DATE

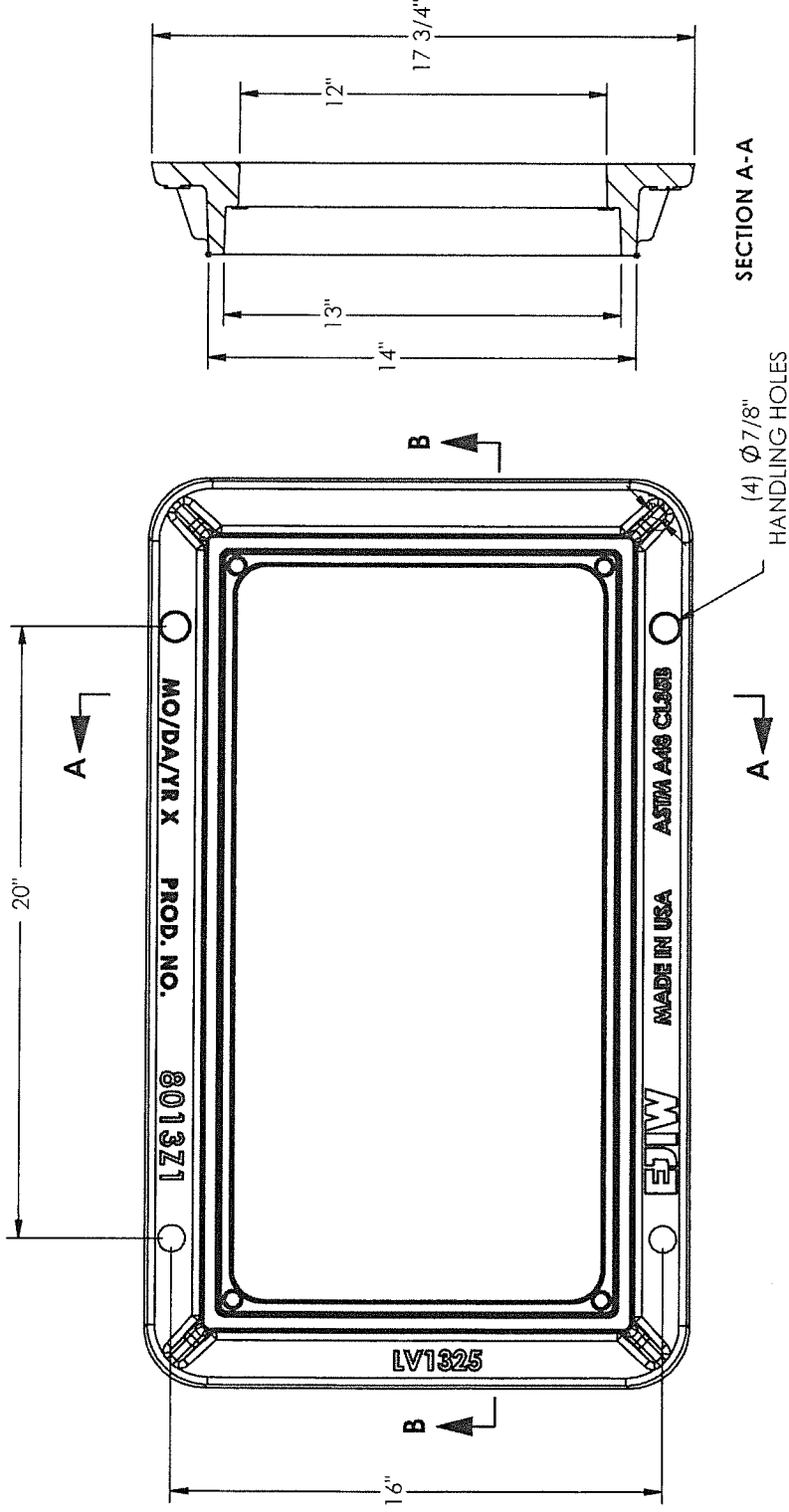
4/10/2009

LAST REVISED

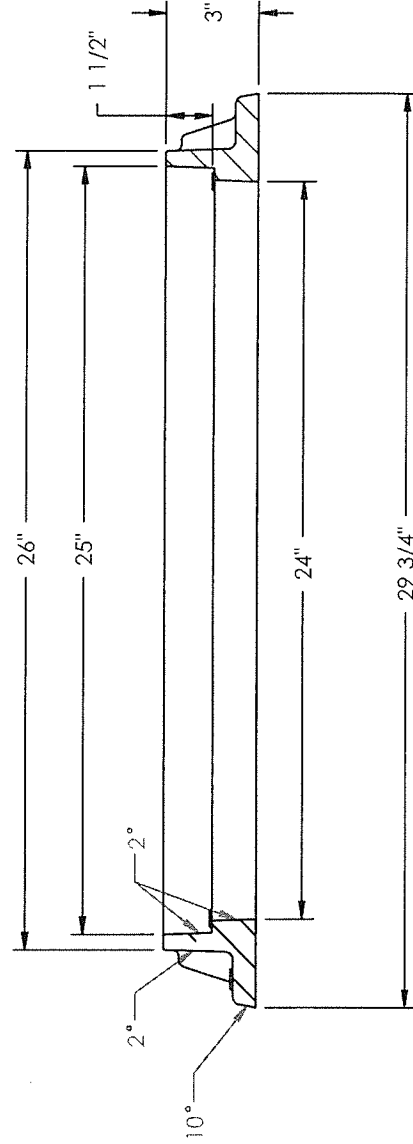
DATE

6/29/2009

DEW



SECTION A-A



SECTION B-B

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EJIW EAST JORDAN
IRON WORKS EST. 1883
800-626-4653
www.ejiw.com

MADE IN USA
PRODUCT NUMBER
00801321

CATALOG NUMBER
8013A

**MANHOLE
COVER**

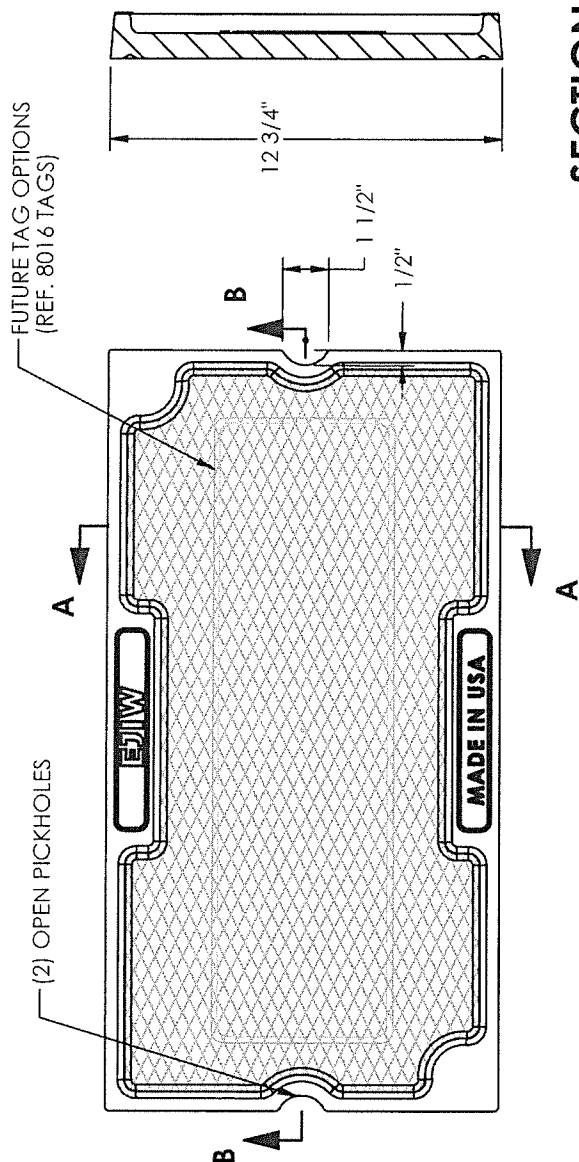
LOAD RATING
HEAVY DUTY

COATING
UNDIPPED

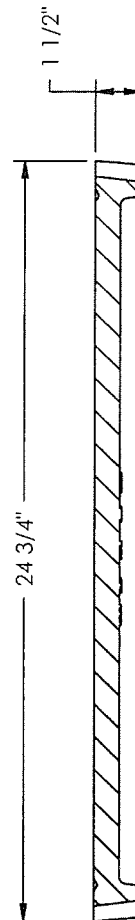
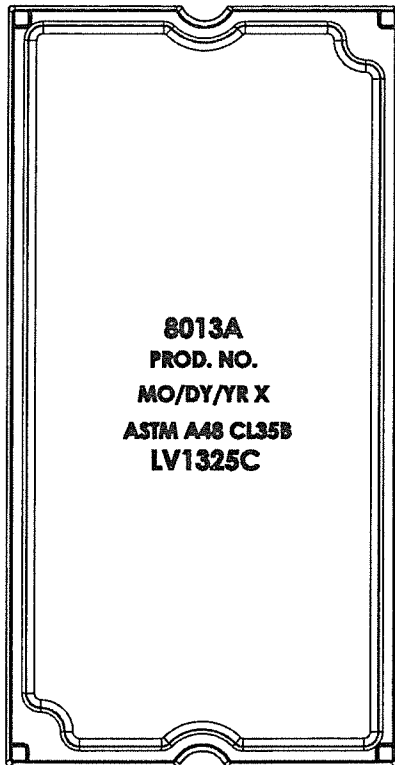
SPECIFICATION
COVER - GRAY IRON
ASTM A48 CL35B

OPEN AREA
N/A

✓ DESIGNATES MACHINED SURFACE	
DRAWN SBB	DATE 05/28/08
LAST REVISED SBB	DATE 04/13/09



SECTION A-A



SECTION B-B

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HOLOPHANE®

An *Squacity Brands Company*

Quoted To: HoloPhane Distributor

Job Name: City of Worcester Parks Dept - Blithewood Park
Quote # : 2125-25-13764-0
Quote Label: Blithewood Park June 2025
Job Location: Worcester, Massachusetts
Issue Date: 8/21/2025
Good Through: 8/11/2025
Bid Date: 9/30/2025

Quoted By: David Rancatore
508/544-1570
DRancatore@holophane.com

Type	Qty	Catalog #	Unit \$	Ext \$
	4	WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL NYA 14 SLS 17S C03 BK LAB RP162A FGIUL BK ASSY39257		
Utility Washington Postlite Full Cutoff LED 3, P30 performance package, 4000K, 120-277V, Full cutoff, type V, Black, Spike finial, 7 pin NEMA dimmable photocontrol receptacle, Field adjustable lumen output, DTL photocontrol, North Yorkshire aluminum pole, 14FT, Shaft, Sitelink 5,251N fluted, .25 wall, 171N Base, Square Pattern Bolt Circle, Tenon, 3.00 O.D. x 31N tail, Black, Less anchor bolt. Receptacle with large, in-use wet location cover, Black				
SL AUX EXIT	8	SLAUXWIREL5BK RFD319317		
*** NOTES: - QUOTING HOLOPHANE PART #.				

FIELD INSTALLED AUXILIARY WIRE EXIT FOR LOW VOLTAGE SPEAKER WIRE. HOLOPHANE BLACK

Estimated Lead Time: 55 days

Notes

- * 1. Customer Service Contact Information:
New Toll Free Number: 1-866-HOLOPHANE (1-866-465-6742)
Toll Free Fax for Customer Service: 1-800-345-4471
- * 2. Quote Number Must Be Written On Purchase Order
- * 3. All quotes subject to standard terms and conditions unless specifically noted.
- * 4. Quote is based on quantities and types indicated. Changes in counts or types may affect prices.
- * 5. Quote is based on our interpretation of information provided. It is not intended as a guarantee of the acceptance.
- * 6. Spare or replacement parts (including lamps) are only included if noted specifically within the quotation above.
- * 7. Quotation is based on information available at bid time. All material subject to approval.

Terms



HOLOPHANE®

An Acuity Brands Company

Job Name: City of Worcester Parks Dept -
Blithewood Park

Quoted By: David Rancatore

Quote # : 2125-25-13764-0

508/544-1570

Quote Label: Blithewood Park June 2025

DRancatore@holophane.com

Job Location: Worcester, Massachusetts

Issue Date: 8/21/2025

Good Through: 8/11/2025

Bid Date: 9/30/2025

Please reference the Acuity Brands Terms & Conditions at: <https://www.acuitybrands.com/support/warranty/terms-and-conditions>. Shipment lead times begin the day after the order is released and are based on working days only. Shipments are FOB Shipping Point on all orders. Holophane shall pay freight on orders of \$3,000 or more (\$750 for replacement ballast kits) to all points in the continental United States and Canada. Upon release of your order, poles and non-standard material cannot be canceled or returned. Terms are subject to revision.



ASSEMBLY SUBMITTAL SPEC SHEET

JOB NAME: Blithewood Park
JOB LOCATION: Worcester, MA
QUOTE NUMBER:
SUBMITTAL TYPE:

CONTENTS

Type	Description
	WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL NYA 14 SL5 17S C03 BK LAB RP162A FGIUL BK ASSY39257

NOTES

**Job Name:**

Blithewood Park

Job Location:

Worcester, MA

Quote No:**Type:****Catalog Number:**

WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL NYA 14 SL5 17S C03 BK LAB RP162A FGIUL BK ASSY39257

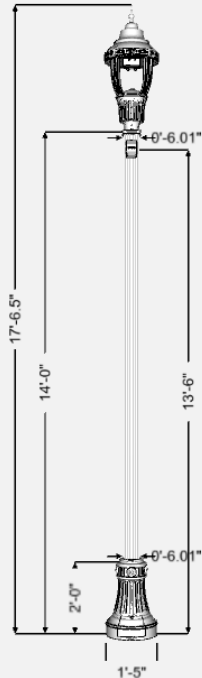
0° View



90° View

**Ordering Information****Luminaire****Catalog Number:** WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL**Series:** (WFCL3) Utility Washington Postlite Full Cutoff LED 3**Performance Package:** (P30) P30 performance package**Color Temperature:** (40K) 4000K**Voltage:** (MVOLT) 120-277V**Optics:** (FC5) Full cutoff, type V**Finish:** (BK) Black**Finial/Trim:** (SK) Spike finial**Photocontrol Receptacle:** (PR7) 7 pin NEMA dimmable photocontrol receptacle**Adjustable Output:** (AO) Field adjustable lumen output**Photocontrols:** (PCLL) DTL photocontrol**Pole****Catalog Number:** NYA 14 SL5 17S C03 BK LAB RP162A**Series:** (NYA) North Yorkshire aluminum pole**Pole Height:** (14) 14FT**Shaft Style:** (SL5) Shaft, Sitelink 5.25IN fluted, .25 wall**Base Diameter:** (17S) 17IN Base, Square Pattern Bolt Circle**Pole Top Mounting:** (C03) Tenon, 3.00 O.D. x 3IN tall**Finish:** (BK) Black**Base Mounting:** (LAB) Less anchor bolt**Receptacle Provision Location A:** (RP162A) Duplex receptacle provision**Accessories****Catalog Number:** FGIUL BK**Weatherproof Receptacle:** (FGIUL) Receptacle with large, in-use wet location cover**Finish:** (BK) Black

Assembly Drawing



Description	Height/Width
Assembly Overall Height	17'-6.5"
Luminaire Mounting Height	14'-0"
Pole Height	14'-0"
FGIUL Height	13'-6"
Pole Shaft OD At Top	0'-6.01"
Pole Shaft OD At Bottom	0'-6.01"
Pole Base Height	2'-0"
Pole Base Width	1'-5"

Windload

Passed Wind Speed: 90 mph Equiv. Pole Top EPA : 1.72 sq ft
 Windload Result: 16% Current Loading Weight: 46.6 lbs
 Evaluated per: Non-AASHTO Addt'l Equiv. Pole Top EPA: 33 sq ft
 Addt'l Loading Capacity: 825 lbs

Anchorage/Orientation Plan

Note: Door = Hand Hole

Ordering Information

Qty	Catalog Number
4	WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL
4	NYA 14 SL5 17S C03 BK RP162A
4	FGIUL BK

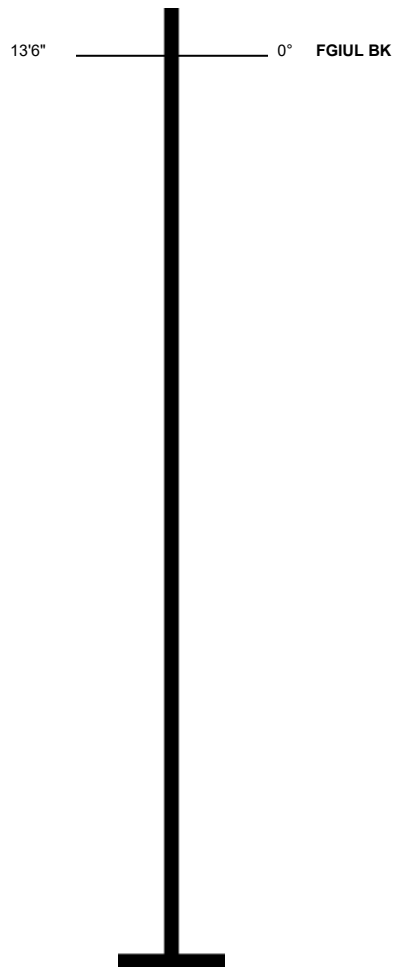
Customer Approval Signature:

Date:

Orientation Drawing

Anchorage/Orientation Plan

Pole	Pole Height
NYA 14 SL5 17S C03 BK LAB RP162A	14'-0"



Note: Door = Hand Hole

The hand hole is located at zero (0) degrees. Height from the bottom of base / anchor plate.

Accessory	Orientation	Height
FGIUL BK	0	162

Customer Approval Signature:

Date:



Submittal Spec Sheet

Dynamically Generated

Series: WFCL3

WFCL3 Lantern

Washington LED Post-Top Full Cutoff Lantern



Product Submittal Description:

Utility Washington Postlite Full Cutoff LED 3, P30 performance package, 4000K, 120-277V, Full cutoff, type V, Black, Spike finial, 7 pin NEMA dimmable photocontrol receptacle, Field adjustable lumen output, DTL photocontrol



The product images shown are for illustration purposes only and may not be an exact representation of the product.

[IES Files](#)

[BIM Models](#)

[Full Spec Sheet](#)

Product Webpage: www.acuitybrands.com/products/detail/1815270

Warranty: www.acuitybrands.com/support/warranty/terms-and-conditions

Model #: **WFCL3 P30 40K MVOLT FC5 BK SK PR7 AO PCLL** ✓

Series*		Performance Package*				Color Temperature*	
WFCL3	Utility Washington Postlite Full Cutoff LED 3	P05	P05 LED performance package	P80	P80 performance package	27K	2700K
		P10	P10 performance package	P90	P90 Performance package	30K	3000K
		P100	P100 Performance package			40K	4000K
		P20	P20 performance package				
		P30	P30 performance package				
		P40	P40 performance package				
		P50	P50 performance package				
		P60	P60 performance package				
		P70	P70 performance package				
Voltage*		Optics*		Finish*			
HVOLT	347-480V	FC2	Full cutoff, type II	BK	Black	XX	Standard finish, TBD
MVOLT	120-277V	FC3	Full cutoff, type III	BZ	Bronze		
XVOLT	277-480V with enhanced power quality protection	FC4	Full cutoff, type IV	CMC	Custom matched color		
		FC5	Full cutoff, type V	GH	Graphite		
				GN	Green		
				GR	Gray		
				PP	Prime paint		
				RAL	RAL color		
				WH	White		
Finial/Trim*		Reveal Plate Finish		Glass Option		Photocontrol Receptacle	
BL	Ball finial, painted cast aluminum	MHC	Paint Cosmetic Reveal Plate to match Housing Color	CLGL	Clear tempered glass lens	DINBRA	DTL DIN node bracket with external mounted antenna, DTL DIN node ordered and shipped separately
NF	No finial			FRGL	10% Frosted tempered glass lens	PR7	7 pin NEMA dimmable photocontrol receptacle
SK	Spike finial					PR7E	7 pin NEMA dimmable photocontrol external receptacle





Submittal Spec Sheet

Dynamically Generated

Series: WFCL3

Adjustable Output	Photocontrols	Prewire Leads	Shielding (factory installed)
AO Field adjustable lumen output	P34 Solid state long life photocontrol (347V) P48 Solid state long life photocontrol (480V) PCLL DTL photocontrol SH Shorting cap	L03 3ft prewire leads L10 10ft prewire leads L1H 1.5ft prewire leads L20 20ft prewire leads L25 25ft prewire leads L30 30ft prewire leads	HSS House side shield
Motion Sensing	Label	House Side Shield Accessory (field installed)	
RSBOR6 nLight motion sensing photocontrol	NL1X1 1IN x 1IN NEMA label NL2X2 2IN x 2IN NEMA label	CLHSSGL25 No glass, Type 2 & Type 5 - Louvered house side shield CLHSSGL34 No glass, Type 3 & Type 4 - Louvered house side shield CLHSSNG25 Glass, Type 2 & Type 5 - Louvered house side shield CLHSSNG34 Glass, Type 3 & Type 4 - Louvered house side shield	

This is a dynamic specification sheet that is based on certain selections made by the user. All results generated are for informational purposes only. The user should validate the results with its agency sales representative to determine whether the product has been configured correctly before ordering. Acuity Brands Lighting is not responsible for any loss resulting from product configuration errors.

Not all versions of the product are available with all options.

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

See the full specification sheet at the product page link above for full product information and detailed ordering information.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.

Visit: <http://www.acuitybrandslighting.com/library/ll/documents/specsheets/acrylic-polycarbonate-compatibility.pdf> for Acrylic-Polycarbonate Compatibility table for suitable uses.

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Submittal Spec Sheet

Dynamically Generated

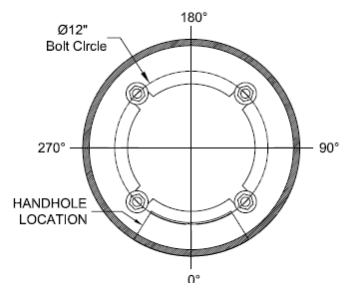
Series: NYA

NYA NYC NYS Pole ABC

North Yorkshire Decorative Cast Aluminum and Cast Iron & Steel Poles

Product Submittal Description:

North Yorkshire aluminum pole, 14FT, Shaft, Sitelink 5.25IN fluted, .25 wall, 17IN Base, Square Pattern Bolt Circle, Tenon, 3.00 O.D. x 3IN tall, Black, Less anchor bolt



The product images shown are for illustration purposes only and may not be an exact representation of the product.

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Warranty: www.acuitybrands.com/support/warranty/terms-and-conditions

Model #: **NYA 14 SL5 17S C03 BK LAB RP162A** ✓

Series*		Pole Height*					
NYA	North Yorkshire aluminum pole	08	8FT	17	17FT	26	26FT
		09	9FT	18	18FT	27	27FT
		10	10FT	19	19FT	28	28FT
		11	11FT	20	20FT	29	29FT
		12	12FT	21	21FT	30	30FT
		13	13FT	22	22FT		
		14	14FT	23	23FT		
		15	15FT	24	24FT		
		16	16FT	25	25FT		
Shaft Style*				Base Diameter*		Pole Top Mounting*	
F4C	Shaft, 4IN diameter fluted, .125 wall	SL6	Shaft, Sitelink 5.75IN fluted, .25 wall	17D	17IN Base, Diamond Pattern Bolt Circle	C03	Tenon, 3.00 O.D. x 3IN tall
F4J	Shaft, 4IN diameter fluted, .25 wall	T4C	Shaft, 3IN to 4IN Tapered, .125 wall	17S	17IN Base, Square Pattern Bolt Circle	C04	Tenon, 2.88 O.D. x 4IN tall
F5J	Shaft, 5IN diameter fluted, .25 wall	T5C	Shaft, 3IN to 5IN Tapered, .125 wall	20D	20IN Base, Diamond Pattern Bolt Circle	C05	3 x 5 tenon
FTJ	Fluted tapered, .25 wall thickness					C06	3 x 6 tenon
S4C	Shaft, 4IN diameter smooth, .125 wall					C08	3 x 8 tenon
S4J	Shaft, 4IN diameter smooth, .25 wall					C09	3 x 9 tenon
S5J	Shaft, 5IN diameter smooth, .25 wall					C12	3 x 12 tenon
SL4	Shaft, Sitelink 4.50IN fluted, .156 wall					C14	3 x 14 tenon
SL5	Shaft, Sitelink 5.25IN fluted, .25 wall					E08	3 1/2 x 8 tenon
Pole Top Mounting* (Cont...)		Breakaway Kit		Finish*			
G08	4-3/8X8 Tenon, (actual size 4.38 O.D. X 8" LG.)	BWKT	Breakaway kit for cast aluminum pole	BK	Black	SL	Silver
				BZ	Bronze	WH	White
G11	4-3/8 x 11 tenon, (actual size 4.38 O.D. X 11IN LG.)			CMC	Customer matched color		
				CTBS	Standard color to be determined		
G12	4 3/8 x 12 tenon			DB	Dark blue		
H10	4 1/2 x 10 tenon			GH	Graphite		
PLN	Plain pole cap			GN	Green		
VGP	VGC plate			GR	Gray		
		PP	Prime painted				





Submittal Spec Sheet

Dynamically Generated

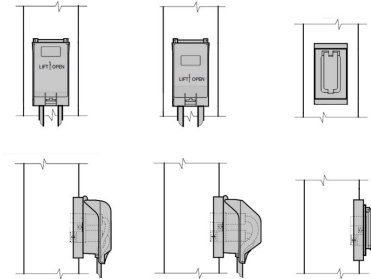
Series: FGIUL

FGIUL Electrical Receptacle

Receptacle with large, In-Use Wet Location Cover (FGIUL)

Product Submittal Description:

Receptacle with large, in-use wet location cover, Black



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Model #: **FGIUL BK** ✓

Weatherproof Receptacle*		Finish*			
FGIUL	Receptacle with large, in-use wet location cover	BK	Black	PP	Prime painted
		BZ	Bronze	SL	Silver
		CMC	Customer matched color	WH	White
		CTBS	Standard color to be determined		
		DB	Dark blue		
		DG	Dark green		
		GH	Graphite		
		GN	Green		
		GR	Gray		

This is a dynamic specification sheet that is based on certain selections made by the user. All results generated are for informational purposes only. The user should validate the results with its agency sales representative to determine whether the product has been configured correctly before ordering. Acuity Brands Lighting is not responsible for any loss resulting from product configuration errors.

Not all versions of the product are available with all options.

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

See the full specification sheet at the product page link above for full product information and detailed ordering information.

Certain airborne contaminants can diminish the integrity of acrylic and/or polycarbonate.

Visit: <http://www.acuitybrandslighting.com/library/ll/documents/specsheets/acrylic-polycarbonate-compatibility.pdf> for Acrylic-Polycarbonate Compatibility table for suitable uses.

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