

Addendum #2

May 19, 2020

To: Perspective Bidders

Subject: Addendum # 2

Farmers Market Parking Lot

RFB 1972-5

Bids Due: May 26, 2020 10:00 AM

This addendum has been issued to correct bid date and completion date,(Pages 3 and 6)
Table of contents reflecting addition of more readable call out notes
More readable call out notes (pages 78-85)

Please replace attached pages in the proposal.

Acknowledge in your in the bid documents.



William L. Coleman, Jr.
Project Manager
Cell 803-261-5581
bill.coleman@ice-eng.com

Attachments: #1-Page 3, 6, TOC and pages 78-85



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SECTION I: NOTICE TO CONTRACTORS

PROJECT NAME: FARMERS MARKET PARKING LOT

PROJECT NUMBER: RFB 1972 - 5

PROJECT LOCATION: Winnsboro, SC

BID BOND/SECURITY: Required at 5% of the bid amount

PERFORMANCE BOND: Required at 100% of the bid amount

PAYMENT BOND: Required at 100% of the bid amount

DBE PARTICIPATION: Encouraged at 5% or greater

DESCRIPTION OF PROJECT: Construct Waterline, Patch and Repave Parking Lot

AGENCY/OWNER: FAIRFIELD COUNTY, 350 Columbia Road, Winnsboro SC 29180

ENGINEER: *INFRASTRUCTURE CONSULTING AND ENGINEERING, LLC (ICE)*: Project Manager, Bill Coleman, 1021 Briargate Circle, Columbia, SC 29210 Phone: 803-822-0333 Email: bill.coleman@ice-eng.com, Cell: 803-261-5581 Fax: 803-822-0034

QUESTIONS: All questions, requests, and correspondence shall be addressed to the Project Manager, Bill Coleman. All questions concerning the Bid Documents shall be in writing and submitted by COB **May 22, 2020**.

PLANS AND BID DOCUMENTS ON FILE: Fairfield County Procurement Office, *INFRASTRUCTURE AND CONSULTING ENGINEERING, LLC (ICE)* Columbia, SC

PLAN DEPOSIT: Bid Documents may be obtained as a hard copy from the Engineer for \$100.00 non-refundable fee or electronic copy for no charge.

PRE-BID CONFERENCE: There will be no pre-bid conference. Any questions or concerns should be addressed by email to Bill Coleman, at bill.coleman@ice-eng.com. All questions with answers will be forwarded to all known plan holders

BID CLOSING AND OPENING: Tuesday, May 26, 2020, at 10:00 AM

BID SUBMITTAL: Submit Sealed Bids clearly marked "RFB-1972-5" with the bidder's name, address, and South Carolina contractor license number on the envelope to: Fairfield County Procurement, Attn: Ms. Cathy Washington, County Administrative Building, 2nd Floor Conference Room, 350 Columbia Road, Winnsboro SC 29180"

SUBSTANTIAL COMPLETION: All projects will be completed September 30, 2020

GENERAL CONDITIONS

1. BID INSTRUCTIONS AND SUBMITTAL:

- a. Bids shall be publicly opened at the time and place as indicated in the Notice to Contractors.
- b. Sealed bids shall be enclosed and secured in an envelope bearing the markings as described under Bid Submittals in the Notice to Contractors. Bids shall be addressed to the Fairfield County Procurement Office, Attention: Ms. Cathy Washington, County Administrative Building, 2nd Floor 350 Columbia Road, Winnsboro, SC 29180. **Hand carried bids will be deposited in the red mailbox at entrance of the County Administration Building.**
- c. Bids shall be submitted no later than **May 26, 2020, at 10:00 AM**, if mailed or hand delivered in the places and manners as described in paragraph b above and on the date indicated by the Notice to Contractors. Bids received after these times are considered late bids. Late bids shall not be considered unless the delay was caused by improper handling by the County's employees.
- d. The County shall not accept responsibility for unidentified bids.
- e. In the event that a bid is unintentionally opened prior to the official time set for the bid opening, the employee opening such bid shall immediately inform the Procurement Officer or his/her assistant who shall, in the presence of another of equal rank or above, immediately contact the vendor submitting the bid.
- f. The vendor so contacted will be informed as to the circumstances and shall be invited to come to the office of Procurement to reseal and submit or withdraw the bid, if the vendor elects to reseal and submit the bid, such vendor shall be required to sign, date and indicate the time of resealing on the bid envelope. If the vendor directs the Procurement Office to reseal the bid, both the employee making the contact to the vendor and the owner witness present, shall sign, date and indicate the time of sealing on the bid envelope.
- g. In the event that the Procurement Office is directed by the vendor to return the bid, a statement properly witnessed stating the action taken and when, shall be duly filed.
- h. All prices and quotations shall be entered in ink or typewritten and shall remain firm for no less than sixty (60) days from the date of the bid. Mistakes may be crossed out and corrections inserted adjacent there to and shall be initialed in ink by the person signing the bid. The bidder shall insert the net price per stated unit and the extension against each item, which he/she proposed to deliver. The price shall include in the grand total column all delivery charges, installation and applicable taxes when necessary.
- i. Bids Will Not Be Considered unless the bidder is legally qualified under the provisions of the South Carolina Contractor's Licensing Law (South Carolina Code of Laws as amended).
- j. Bids Will Not Be Considered unless accompanied by a sealed, bidder's bond, for 5 percent (5%) of the amount of the bid. Bid bond will be duly executed by the bidder as principal & having as surety thereon a surety company licensed to do business in the State of South Carolina. Successful bidder will be required to furnish a satisfactory performance & payment bond each in the amount of 100 percent (100%) of the bid.
- k. The County Reserves the Right to accept or reject any & all responses, to waive technicalities & informalities, to negotiate further with the Contractor of its choice, & to request additional information, to interview & to make an award deemed in its own best interest. **Due to county no meeting policy, the procurement officer will open the bids in her office with witnesses present if contractor will put an email address on bid envelop, a copy of read out bids will be emailed to all bidders as ASAP opening. Same document should be on county website by 10:30 AM.**

All submittals shall become property of the County and is subject to the Freedom of Information Act (FOIA) regulations.

PARKING LOT PLAN CALLOUT NOTES

GENERAL CONSTRUCTION NOTES:

1. BASE DATA AND SURVEY INFORMATION UPON WHICH THIS PLAN IS BASED HAS BEEN PROVIDED BY OTHERS. ALAN GLASSBERG, LLC. ASSUMES NO LIABILITY FOR ITS ACCURACY OR COMPLETENESS. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PERTINENT INFORMATION.
2. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN ALL PHYSICAL LOCATIONS OF UTILITY LINES PRIOR TO THE TIME OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPAIRING ANY EXISTING UTILITIES DAMAGED DURING HIS WORK.
3. CONTRACTOR WILL RESTORE TO ORIGINAL CONDITION, AND TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT, ANY AREA DISTURBED OUTSIDE THE LIMIT OF WORK. CONTRACTOR WILL REPAIR ANY DAMAGES OUTSIDE THE LIMIT OF WORK RESULTING FROM HIS WORK, AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR WILL NOT DAMAGE ANY EXISTING TREES AND SHRUBS TO REMAIN INCLUDING THE SCARRING AND SCRAPING OF TRUNKS OR LIMBS; THE BREAKING OF TRUNKS AND LIMBS; SPILLING OF FUEL, OIL OR OTHER CHEMICALS; THE COMPACTION OF ROOT ZONES AND BURNING FROM ENGINE EXHAUSTS. APPROVED TREE PROTECTION FENCING SHALL BE ERECTED AROUND SIGNIFICANT TREES, AND AS DETERMINED BY THE LANDSCAPE ARCHITECT, WITHIN THE LIMITS OF WORK.
5. CONTRACTOR WILL BE RESPONSIBLE FOR VISITING THE SITE DURING HIS BID PREPARATION AND FULLY FAMILIARIZE THEMSELVES WITH ALL ASPECTS OF THE SCOPE OF WORK AND CONDITIONS OF THE SITE, INCLUDING BUT NOT LIMITED TO, UTILITIES, GRADING, ACCESS, ETC.
6. CONTRACTOR WILL COORDINATE HIS WORK WITH THAT OF OTHER TRADES EMPLOYED BY THE OWNER AND WITH THE OWNER'S OWN FORCES.
7. CONTRACTOR SHALL MAINTAIN SITE IN WORKMAN LIKE ORDER. SOIL AND OTHER MATERIALS FROM THIS PROJECT SHALL NOT BE ALLOWED TO MIGRATE INTO OTHER AREAS. ROADWAYS, WALKWAYS AND LANDSCAPING SHALL BE MAINTAINED FREE OF OBSTACLES AND HAZARDS.
8. CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS FOR CONSTRUCTION OF THIS PROJECT.
9. CONTRACTOR SHALL DISPOSE OF ALL WASTE SAFELY AND LEGALLY OFF-SITE.
10. CONTRACTOR WILL DESIGNATE AND USE ONE LOCATION WITHIN THE CONTRACT LIMIT OF WORK FOR CONCRETE TRUCK DISPOSAL AND WASHING. ALL WASTE SHALL BE REMOVED AND LEGALLY DISPOSED OF AT COMPLETION OF WORK.
11. CONTRACTOR WILL BE RESPONSIBLE FOR SECURITY OF HIS OWN EQUIPMENT AND MATERIALS.
12. CONTRACTOR WILL PROVIDE ALL NECESSARY FLAG MEN, BARRICADES, SIGNS, AND WARNING DEVICES FOR THE PROTECTION OF THE PUBLIC AND/OR OWNER.
13. REFERENCE MADE TO "ARCHITECT" IN DRAWINGS AND SPECIFICATIONS WILL BE DEFINED AS "LANDSCAPE ARCHITECT."
14. NO CHANGE TO ANY ASPECT OF THESE CONTRACT DRAWINGS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER/OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT.
15. ALL MEASUREMENTS ARE TO THE BACK OF CURB (BOC), EDGE OF PAVEMENT (EOP), CENTERLINE, FACE OF WALLS, OR THE FACE OF COLUMN UNLESS OTHERWISE NOTED ON THE PLANS.
16. STREETS ADJACENT TO AND DIRECTLY AFFECTED BY CONSTRUCTION TRAFFIC SHALL REMAIN FREE OF SOIL AND SILT, OTHER CONSTRUCTION DEBRIS AND TRASH. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING REASONABLE CLEANLINESS OF SAID STREETS BY WASHING DOWN WITH WATER (WHEN NECESSARY) AND REMOVING ANY OTHER TRASH, WASTE OR CONSTRUCTION DEBRIS, AND DISPOSING OF IT PROPERLY ON A DAILY BASIS.
17. NO PERSONAL VEHICLES, CONSTRUCTION EQUIPMENT OR MATERIALS SHALL BE STORED ON ADJACENT SITES WITHOUT PRIOR WRITTEN PERMISSION FROM THE PROPERTY OWNER.
18. CONTRACTOR WILL ADHERE TO THE WEIGHT LIMITS PRESCRIBED ON ALL ROADS FOR HAULING EQUIPMENT AND/OR MATERIALS TO AND FROM THE SITE. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGE TO THE ROADS AND/OR UTILITIES DUE TO FAILURE TO COMPLY WITH WEIGHT LIMIT AND OTHER IMPOSED LIMITS. ALL DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
19. DO NOT SCALE DIRECTLY FROM DRAWINGS; USE THE WRITTEN DIMENSIONS PROVIDED. IN THE EVENT NO WRITTEN DIMENSION EXISTS, CONTACT THE LANDSCAPE ARCHITECT.
20. SHOP DRAWINGS MUST BE CHECKED, APPROVED AND STAMPED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE LANDSCAPE ARCHITECT FOR APPROVAL. SHOP DRAWINGS MUST BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
21. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH ALL FEDERAL, STATE, COUNTY AND LOCAL MUNICIPAL CODES, ORDINANCES AND REGULATIONS.
22. CONTRACTOR TO INSTALL ALL ITEMS CONTAINED WITHIN THESE DRAWINGS, UNLESS OTHERWISE INDICATED AS "N.I.C." (NOT IN CONTRACT)

DEMOLITION NOTES:

1. CONTRACTOR SHALL VERIFY ALL ITEMS TO BE DEMOLISHED AND REMOVED FROM THE PROJECT SITE. THE VERIFICATION PROCESS SHALL INCLUDE VISITING AND WALKING THE SITE. ALL ITEMS REQUIRING DEMOLITION/REMOVAL, OTHER THAN REMOVAL OF CHAINLINK FENCE AND HEDGE ADJACENT TO THE BURGER KING PARKING LOT WHETHER SHOWN ON THIS PLAN OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 2. ALL EXISTING STRUCTURES AND RELATED FOOTINGS, FOUNDATIONS, STEPS, ETC. ARE TO BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF ACCORDING TO ALL APPLICABLE FEDERAL, STATE, COUNTY AND LOCAL MUNICIPAL CODES, ORDINANCES AND REGULATIONS.
 3. CONTRACTOR SHALL CONSULT THE OWNER OR LANDSCAPE ARCHITECT REGARDING SALVAGE AND DELIVERY OF ANY ITEMS. ANY ITEMS NOT RETAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEMOLISH AND/OR LEGALLY DISPOSE OF.
 4. IF ANY HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION THE CONTRACTOR SHALL COORDINATE WITH THE OWNER/LANDSCAPE ARCHITECT AND ALL APPROPRIATE AGENCIES TO ENSURE PROPER AND SAFE REMOVAL AND DISPOSAL.
 5. THERE SHALL BE NO BURNING ON-SITE UNLESS THE LOCAL MUNICIPALITY AND OWNER APPROVES AND PERMITS THE BURNING.
 6. WHEN REMOVING A PORTION OF EXISTING ASPHALT OR OTHER HARDSCAPE, SAW CUT EXISTING HARDSCAPE TO A CLEAN EDGE.
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PLANTING NOTES:

1. MATERIALS LIST WAS PREPARED FOR ESTIMATING PURPOSES ONLY. CONTRACTOR SHALL MAKE OWN QUANTITY TAKEOFF USING DRAWINGS AND SPECIFICATIONS TO DETERMINE QUANTITIES. ANY DISCREPANCIES SHALL BE REPORTED BY THE CONTRACTOR TO THE LANDSCAPE ARCHITECT. LANDSCAPE ARCHITECT ASSUMES NO LIABILITY FOR QUANTITY DISCREPANCIES.
2. CONTRACTOR TO VERIFY THAT ALL PLANT MATERIALS ARE AVAILABLE, AS SPECIFIED, WHEN PROPOSAL IS SUBMITTED.
3. PRIOR TO COMMENCING CLEARING AND GRUBBING, ALL TREES TO BE PRESERVED SHALL BE FLAGGED WITH BLUE RIBBON ENCIRCLING THE TRUNK. IMMEDIATELY FOLLOWING THE FLAGGING OF PRESERVED TREES, ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED BEFORE CONTINUING ANY SITEWORK.
4. CONTRACTOR SHALL TEST SOIL PH AND CONDITIONS FOR ALL SOD AND SEEDING AREAS TO ENSURE THAT PROPER SOIL REQUIREMENTS ARE MET. PLANTING BED SOILS SHALL BE AMENDED BY CONTRACTOR AS INDICATED BY SOIL TEST AND SPECIFICATIONS TO ACHIEVE PROPER SOIL CONDITIONS PRIOR TO PLANTING.
5. CONTRACTOR SHALL STAKE OUT ALL SHRUB BED LINES, TREE LOCATIONS, AND SHRUB GROUPINGS FOR APPROVAL BY LANDSCAPE ARCHITECT BEFORE BEGINNING PLANTING OPERATIONS. ** (NOTIFY LANDSCAPE ARCHITECT 24 HOURS PRIOR TO PLANTING.)
6. ALL PLANT BEDS TO RECEIVE 3" DEEP LONGLEAF PINE STRAW MULCH. APPLICATION RATE FOR BEDS @ 1 BALE PER 50 SQUARE FEET.
7. CONTRACTOR TO MAINTAIN ALL AREAS WITHIN THE LIMITS OF WORK THROUGH THE DURATION OF CONSTRUCTION UNTIL FINAL ACCEPTANCE.
8. IN THE PLANT SCHEDULE, PLANTS NOTED AS "SPECIMEN", SHALL BE SELECTED BY THE LANDSCAPE ARCHITECT AT THE NURSERY OR PHOTOS OF THE PLANTING STOCK SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR APPROVAL.
9. PRE-EMERGENT HERBICIDE SUCH AS "RONSTAR G" OR EQUAL SHALL BE APPLIED TO PLANTING AREAS IMMEDIATELY FOLLOWING LANDSCAPE INSTALLATION, AND PRIOR TO MULCHING, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
10. THE PLANT BED AREAS LABELED AS "SEASONAL COLOR" SHALL BE PLANTED WITH ANNUALS AND PERENNIALS SELECTED BY THE OWNER OR LANDSCAPE ARCHITECT.
11. SELECTIONS AND FINAL PLACEMENT OF ALL SEASONAL COLOR BEDS SHALL BE APPROVED BY THE LANDSCAPE ARCHITECT.
12. ADJUST LOCATIONS OF PLANT MATERIAL TO AVOID PLACEMENT IN FRONT OF GUTTER DRAINS.
13. CONTRACTOR TO VERIFY THAT ADEQUATE DRAINAGE EXISTS PRIOR TO PLANTING.
14. ALL TREES, SHRUBS AND PLANTS SHALL BE TYPICAL FOR THE SPECIES IN FORM AND COLOR, FREE FROM DAMAGE OR DISEASE AND SHALL BE U.S. NURSERY STANDARD #1 OR BETTER.
15. SPECIMEN TREES 2" CALIPER AND LARGER WILL ONLY BE ACCEPTED FROM LANDSCAPE ARCHITECT APPROVED NURSERIES. SEE NURSERY NOTES.
16. IF INSTALLED PLANTS SETTLE OR ARE BLOWN OUT OF PLUMB POSITION, CONTRACTOR WILL STRAIGHTEN THEM BY MAKING ADJUSTMENTS TO THE POSITION OF THE ROOT BALL, AND NOT BY PUSHING ON THE TRUNK AND/OR TIGHTENING THE GUY WIRES. TREES SHALL BE STRAIGHTENED DURING THE DURATION OF THE PROJECT AS THEY GET OUT OF PLUMB, UNTIL THE FINAL INSPECTION FOR THE CERTIFICATE OF OCCUPANCY (CO).
17. BALL DEPTHS ON SOME TREES IN A SINGLE GROUP MAY VARY. IN GENERAL, ROOT BALLS TO BE SET 2" - 3" ABOVE EARTH FINISH GRADE. BUT, IF DEPTHS VARY, ALL TREES IN A GROUP SHOULD BE SET SO THAT THE BASE OF THE TRUNKS WILL APPEAR TO BE AT THE SAME RELATIVE ELEVATION ABOVE GRADE.
18. NO DECIDUOUS OR EVERGREEN TREE WILL BE ACCEPTED IF THERE IS MORE THAN ONE LEADER, UNLESS THE TREE IS SPECIFIED AS MULTI-TRUNK OR MULTI-STEM.
19. ALL SAUCERS SHALL BE SOAKED WITH WATER AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
20. ALL ROOT BALLS REMOVED FROM CONTAINERS SHALL BE SCARIFIED PRIOR TO BACKFILLING.
21. ANY AND ALL EXISTING BUFFERS ARE TO BE MAINTAINED AND PROTECTED THROUGHOUT THE DURATION OF CONSTRUCTION. ANY DAMAGE TO SAID BUFFERS SHALL BE REPAIRED BY THE CONTRACTOR AND AT THE CONTRACTOR'S EXPENSE.
22. NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED WITHOUT APPROVAL FROM THE OWNER OR LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
23. THE CONTRACTOR SHALL NOT BE RESPONSIBLE, AT ANY TIME, TO REPLACE OR HONOR ANY WARRANTY FOR THE LOSS OF ANY PLANT MATERIAL CAUSED BY FIRE, FLOOD, EXTREME FREEZING TEMPERATURES, LIGHTING, WINDS ABOVE 50 MPH, OR ANY OTHER NATURAL DISASTER. NOR SHALL THE CONTRACTOR BE HELD RESPONSIBLE FOR ACTS OF VANDALISM OR NEGLIGENCE ON THE PART OF THE OWNER.
24. UPON COMPLETION OF ALL LANDSCAPING, AN INSPECTION FOR ACCEPTANCE OF THE WORK SHALL BE HELD. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OR OWNER FOR SCHEDULING THE INSPECTION AT LEAST (7) DAYS PRIOR TO THE ANTICIPATED INSPECTION DATE.
25. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR (12) MONTHS FROM THE DATE OF ACCEPTANCE. REPLACEMENT PLANTS SHALL BE GUARANTEED FOR AN ADDITIONAL (12) MONTHS.
26. THE LANDSCAPE ARCHITECT OR OWNER SHALL HAVE THE RIGHT, AT ANY STAGE OF THE CONSTRUCTION OPERATION, TO REJECT ANY AND ALL WORK AND MATERIAL WHICH, IN HIS OPINION, DO NOT MEET THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS.
27. ALL PROPOSED TREES ARE TO BE INSTALLED EITHER COMPLETELY INSIDE OR COMPLETELY OUTSIDE OF PLANTING BEDS. PLANTING BED LINES ARE NOT TO BE OBSTRUCTED.
28. THE CONTRACTOR SHALL COORDINATE WITH LIGHTING AND IRRIGATION CONTRACTORS REGARDING THE INSTALLATION OF PLANT MATERIAL. CONTRACTOR SHALL ALSO COORDINATE PLANT INSTALLATION WITH ALL UTILITY CONTRACTORS SO THAT DAMAGE TO ANY EXISTING, PROPOSED OR NEWLY INSTALLED UTILITIES IS AVOIDED.
29. THE CONTRACTOR SHALL ENSURE THAT HIS WORK DOES NOT INTERRUPT ESTABLISHED OR PROJECTED DRAINAGE PATTERNS.
30. SEE TREE, SHRUB, AND GROUND COVER PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING SPECIFICATIONS.

IRRIGATION NOTES:

1. PROVIDE 100% COVERAGE OF PLANT BEDS, GRASS AREAS AND NEWLY PLANTED BUFFERS. SEE SPECIFICATIONS FOR IRRIGATION STANDARDS AND MATERIAL.
2. PROVIDE AUTOMATIC TIMER CONTROL (ELECTRIC). COORDINATE LOCATION OF CONTROLLER WITH LANDSCAPE ARCHITECT.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR PERMITTING, METER, AND ALL VALVES, ETC. TO MEET LOCAL MUNICIPALITY CODES.
4. INCORPORATE ZONES THAT SEPARATE GRASS AREAS FROM PLANT BEDS.
5. AVOID IRRIGATING ALL AREAS OUTSIDE OF THE THE PLANTED AREAS.
6. IRRIGATION SYSTEM TIE IN POINT TO BE DETERMINED BY THE LANDSCAPE ARCHITECT UNLESS INDICATED ON IRRIGATION DRAWINGS.
7. UTILIZE SWING-JOINTS AND/OR FLEX-RISERS ON ALL HEADS ADJACENT TO ROADS, PARKING AND WALKWAYS.
8. CONTRACTOR IS TO PROVIDE:
 - a. SET OF CONSTRUCTION LAYOUT DRAWINGS FOR OWNER APPROVAL BEFORE CONSTRUCTION.
 - b. (6) SETS OF AS-BUILT IRRIGATION DRAWINGS AFTER CONSTRUCTION IS COMPLETE AND APPROVED BY THE OWNER.
9. IRRIGATION CONTRACTOR TO LOCATE ALL SPRAY HEADS A MINIMUM OF 2'-0" FROM EDGE OF PAVEMENT.
10. THE IRRIGATION WILL BE CONNECTED TO A HUNTER ET (EVAPOTRANSPIRATION) ATTACHMENT IN COMBINATION WITH ANY COMPATIBLE HUNTER IRRIGATION CONTROLLER WITH A SMARTPORT SYSTEM.
11. THE MAINTENANCE PROGRAM SHOULD SLOWLY WEAN THE PLANTS OFF OF THE WATERING SYSTEM. AFTER THREE YEARS THE SYSTEM SHOULD BE ABANDONED.

LIGHTING NOTES:

1. COMPLETE SYSTEM INSTALLATION, INCLUDING PARTS AND LABOR, SHALL BE GUARANTEED FOR ONE YEAR. ALL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
2. THE INTENT OF THESE PLANS ARE TO PROVIDE SITE LIGHTING FOR VEHICULAR AND PEDESTRIAN FLOW. CONTRACTOR SHALL MAKE EVERY EFFORT TO CREATE THIS EFFECT BY CLOSE COORDINATION WITH THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT AND CAREFUL PLACEMENT OF FIXTURES. FINAL AIMING, LAMP PLACEMENT AND ADJUSTMENTS SHALL BE MADE AT NIGHT WITH THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT PRESENT TO GIVE FINAL APPROVAL.
3. THE CONTRACTOR SHALL ENGINEER THE ELECTRICAL SYSTEM BASED ON THE LOCATION AND TYPE OF FIXTURE AS SHOWN ON THE PLAN. PROPERLY SIZED WIRING, BREAKERS, DISCONNECTS, ACCESSORIES, ETC., SHALL BE PROVIDED BY THE CONTRACTOR AS NECESSARY TO PROVIDE A COMPLETE LIGHTING, DISTRIBUTION, AND CONTROL SYSTEM.
4. SHOP DRAWINGS SHALL INCLUDE WIRING LAYOUTS. ELECTRICAL WIRES RUNNING UNDER PAVED AREAS SHALL BE PLACED IN PVC SLEEVES OR ELECTRICAL CONDUIT AS NECESSARY WHEN SLEEVING IS NOT AVAILABLE. WIRES RUNNING UNDER WALKS, ETC..., SHALL BE PLACED IN 2" PVC SLEEVE PROVIDED BY ELECTRICAL CONTRACTOR. INSTALL 2" PVC SLEEVE BENEATH PAVING PRIOR TO INSTALLATION. STAKE AND FLAG LOCATIONS FOR EASY IDENTIFICATION. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT AND OWNER'S REPRESENTATIVE. SHOP DRAWINGS SHALL INCLUDE WIRING LAYOUTS.
5. CONTRACTOR SHALL USE EXTREME CARE TO AVOID ANY DAMAGE TO EXISTING TREES AND PLANT MATERIALS DURING THE INSTALLATION OF THE COMPLETE SYSTEM. TRENCHES SHALL BE CUT OUTSIDE THE ROOT ZONE OF ALL TREES, OR BORED UNDER THE ROOT ZONE. LATERALS FOR WIRE TO TREES SHALL BE CUT IN PERPENDICULAR TO THE TRUNK SO AS TO MINIMIZE ROOT DAMAGE. CONTRACTOR TO PROVIDE "AS-BUILT" DRAWINGS IMMEDIATELY AFTER FINAL ACCEPTANCE.
6. PROVIDE GFI BREAKERS FOR ALL FIXTURES AND RECEPTACLES. ALL FIXTURES SHALL HAVE MARINE GRADE FINISH.
7. ALL COPPER CONDUCTOR CABLE SHALL BE TREATED WITH OIL, WATER, SALT AND RODENT REPELLENT AND INSULATED WITH UV-INHIBITED BLACK INSULATION.
8. A MINIMUM OF 12" OF EXCESS CABLE SHALL BE BURIED AT EACH FIXTURE TO ALLOW FOR ADJUSTMENTS.
9. CONTRACTOR TO COORDINATE WITH POWER COMPANY REQUIREMENTS FOR LAMPOST REQUIREMENTS (CONDUIT, FOOTING, OTHER).

BIKE PARKING BOLLARD

SECTION INCLUDES: BICYCLE RACKS.

RELATED REQUIREMENTS:

SECTION 32 39 13.13 -METAL BIKE PARKING BOLLARDS

REFERENCES

REFERENCE STANDARDS:

AAMA 2603 -PIGMENTED ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS.

ASTM A36 -CARBON STRUCTURAL STEEL.

ASTM A53 -PIPE, STEEL, BLACK AND HOT-DIPPED, ZINC-COATED, WELDED, AND SEAMLESS.

ASTM A312 -SEAMLESS, WELDED, AND HEAVILY COLD WORKED AUSTENITIC STAINLESS STEEL PIPES.

ASTM A959 -HARMONIZED STANDARD GRADE COMPOSITIONS FOR WROUGHT STAINLESS STEELS.

ACTION SUBMITTALS

MANUFACTURER'S PRODUCT DATA.

SAMPLES FOR INITIAL SELECTION: COLOR CARD OF MANUFACTURER'S STANDARD COLORS.

SAMPLES FOR VERIFICATION: SPECIFIED FINISH.

SETTING DRAWINGS: SHOW EMBEDDED ITEMS AND CUTOUTS REQUIRED FOR WORK

SPECIFIED IN OTHER SECTIONS.

CLOSEOUT SUBMITTALS

MANUFACTURER'S MAINTENANCE INSTRUCTIONS FOR FIELD TOUCH-UP OF FINISHES, CLEANING, AND MAINTENANCE.

WARRANTY DOCUMENTATION: SUBMIT SAMPLE OF MANUFACTURER'S WARRANTY.

DELIVERY, STORAGE, AND HANDLING

PROTECT RACKS AND ACCESSORIES DURING DELIVERY, STORAGE, AND HANDLING TO COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND PREVENT DAMAGE.

PRODUCTS

MANUFACTURERS

MANUFACTURER: RELIANCE FOUNDRY CO. LTD.

PHONE: 604-547-0460 OR 1-877-789-3245

FAX: 604-590-8875

WEBSITE: [HTTPS://WWW.RELIANCE-FOUNDRY.COM/BIKE-STORAGE](https://www.reliance-foundry.com/bike-storage)

EMAIL: [INFO@RELIANCE-FOUNDRY.COM](mailto:info@reliance-foundry.com)

SUBSTITUTIONS: [COMPLY WITH PROVISIONS OF [SECTION 01 25 00 "SUBSTITUTION PROCEDURES"] [] FOR SUBSTITUTION PROCEDURES.] [NOT ALLOWED.]

BICYCLE RACKS

MATERIAL: STEEL, STAINLESS STEEL.

STEEL:

PIPE: ASTM A53, TYPE F OR TYPE S, GRADE A.

PLATE, SHAPES AND BARS: ASTM A36.

RECYCLED CONTENT OF STEEL PRODUCTS: POSTCONSUMER RECYCLED CONTENT PLUS

ONE-HALF OF PRE-CONSUMER RECYCLED CONTENT NOT LESS THAN 25 PERCENT.

POWDER-COAT FINISH: AAMA 2603 EXCEPT WITH A MINIMUM DRY FILM THICKNESS OF 1.5

MILS. COMPLY WITH COATING MANUFACTURER'S WRITTEN INSTRUCTIONS.

STAINLESS STEEL: AISI GRADE 316.

PIPE: ASTM A312.

SHEET, STRIP, AND PLATE: ASTM A959.

FINISH: BUFFED SATIN FINISH NO. 6.

COUNTRY OF ORIGIN: CHINA

RELIANCE FOUNDRY MODEL R-8224R-8224

HEIGHT: 31-1/2 IN (80 CM)

WIDTH: 35-1/2 IN (90.2 CM)

WEIGHT: 32 LBS (14.5 KG)

DESIGN: CIRCLE.

METAL: [STEEL] [STAINLESS STEEL].

INSTALLATION: [CONCRETE INSERT, SURFACE/FLANGE MOUNT] [CONCRETE EMBEDDED, IN-GROUND MOUNT]

COLOR: [TEXTURED BLACK] [DARK GREEN] [STATUARY BRONZE] [BENGAL SILVER]

[ANODIZED SILVER] [SAFETY YELLOW]

ACCESSORIES

MOUNTING ACCESSORIES

EPOXY ADHESIVE: AS RECOMMENDED IN WRITING BY ADHESIVE MANUFACTURER FOR OUTDOOR USE WITH CONCRETE AND STEEL.

FASTENERS

[STANDARD: 1/2 INCH UNC BUTTON HEAD BOLTS, C/W SS WASHER.] [AS SPECIFIED.]

DROP IN PLACE CONCRETE ANCHORS, FOR 1/2 INCH UNC BOLTS.

SEALANT: SILICONE ELASTOMERIC SEALANT RECOMMENDED FOR OUTDOOR USE.

EXECUTION

EXAMINATION

EXAMINE PAVING OR OTHER SUBSTRATES FOR COMPLIANCE WITH MANUFACTURER'S

REQUIREMENTS FOR PLACEMENT AND LOCATION OF EMBEDDED ITEMS, CONDITION OF

SUBSTRATE, AND OTHER CONDITIONS AFFECTING INSTALLATION OF BICYCLE RACKS.

PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN

CORRECTED.

INSTALLATION

GENERAL: COMPLY WITH MANUFACTURER'S INSTALLATION REQUIREMENTS AND SETTING

DRAWINGS. INSTALL ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS FOR

SPECIFIED SETTING METHOD.

DO NOT INSTALL DAMAGED, CRACKED, CHIPPED, DEFORMED OR MARRED BICYCLE RACKS.

FIELD TOUCH-UP MINOR IMPERFECTIONS IN ACCORDANCE WITH MANUFACTURER'S

INSTRUCTIONS. REPLACE BICYCLE RACKS THAT CANNOT BE FIELD REPAIRED.

CLEANING & PROTECTION

IMMEDIATELY PRIOR TO SUBSTANTIAL COMPLETION, CLEAN RACKS IN ACCORDANCE WITH

MANUFACTURER'S INSTRUCTIONS TO REMOVE DUST, DIRT, ADHESIVES, AND OTHER FOREIGN

MATERIALS.

PROTECT BICYCLE RACKS AGAINST DAMAGE.

CLOSEOUT ACTIVITIES

PROVIDE EXECUTED WARRANTY.

TREE PROTECTION NOTES:**1. Tree Marking**

- A. Prior to any tree removal or site clearing, contractor is to mark all trees to be removed with red colored ribbon, mark out proposed tree protection zones, and stake out building corners and pool location. Once staking and tree delineation outlined below is complete, notify landscape architect to arrange time and date for inspection by L.A. prior to any clearing work. Allow minimum 48 hour to schedule inspection.
- B. Trees proposed for removal are to be marked in the field with red tape. Trees to be pruned and/or limbed are to have a blue tape tied to the limb and/or area of trimming. Trees proposed for transplanting are to be be taped with numbered yellow ribbon and a stake, with a corresponding number, placed in the proposed location of transplant.

2. Establishment of a Tree Protection Zone

- A. These tree protection measures must be in place and approved by the landscape architect prior to commencement of any tree removal or clearing.
- B. The size of the tree protection zone may be adjusted at the discretion of the Landscape Architect. The tree protection zone is determined by the size of the canopy and environmental factors not shown on the tree survey.
- C. The cleaning of equipment, storage of materials or dirt, disposal of waste material such as paint, oil solvents or other harmful substances, or any other such acts which may be harmful to the continued vitality of the tree within the tree protection zone is strictly prohibited.

3. Tree Damage

- A. Any tree damaged during construction or damage occurring as a result of such construction, shall be repaired to the satisfaction of the Landscape Architect according to accepted International Society of Arboriculture practices. Tree damage must be repaired prior to the issuance of a Certificate of Compliance.
- B. Contractor will take all necessary precautions to insure that no trees to remain are damaged during tree removal and clearing.

4. Tree Root Protection

- A. In areas where walks or paved surfaces pass through tree protection zones. The grade of these improvements shall be raised to ramp over the root zone, eliminating the need for any cutting in these areas. If fill over any root zone exceeds 40% of the root zone with depths of fill over 6" deep, then first put down min. 6" layer of graded aggregate to facilitate air and water movement through the root zone at these points. In no event shall cuts in root zones exceed 2'.