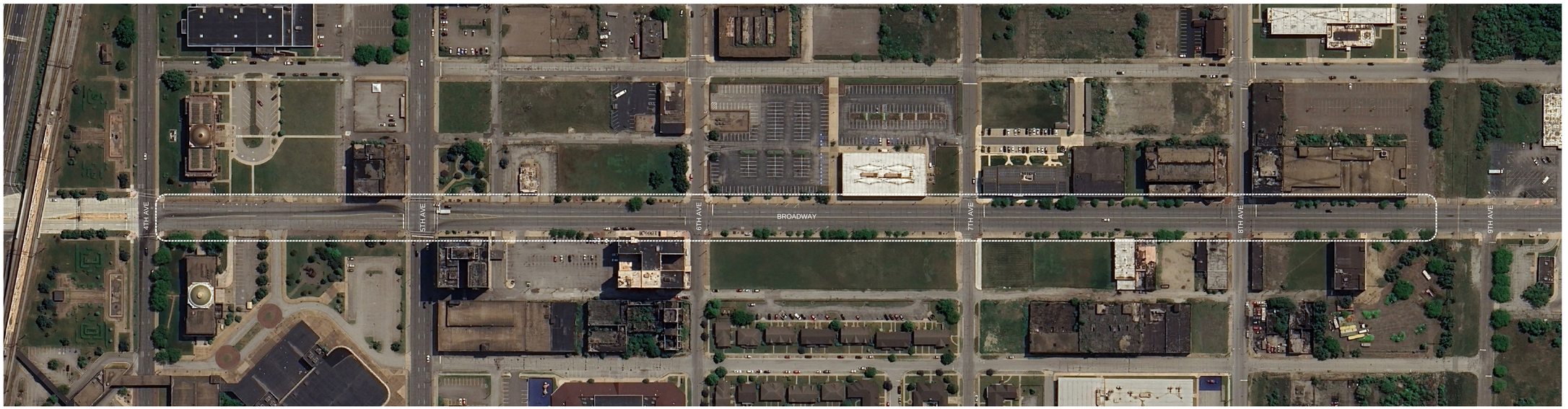
BROADWAY LANDSCAPE IMPROVEMENTS

GARY, INDIANA



LOCATION MAP

NTS

ISSUE FOR BID: 05/01/2026

PAMELA SELF LANDSCAPE ARCHITECTURE

11 WEST COLLEGE DRIVE - SUITE A
ARLINGTON HEIGHTS, IL 60004
TELE: 847-438-4922

CITY OF GARY

Christopher Harris
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NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECTURE

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Date	Revision
05.01.2026	Bid Drawings

COVER SHEET

Sheet

L0.00

GENERAL NOTES

1. The terms "contractor" and "general contractor" as they apply to the construction documents refer to the same entity. "Subcontractor or Installer" is a person or entity who has a direct contract with the Contractor to perform portions of the work. References to the Contractor or General Contractor shall extend to include the Subcontractors, and vice versa, as they pertain to the work referenced therein.
2. All work is to be done in accordance with City of Gary Code, State of Indiana Accessibility Code, all other Codes having authority over the Project, and the rules of the building management provided by the Owner's Representative. General Contractor shall review and notify the Architect of any conflicts between the construction documents and the rules provided by the Owner's Representative.
3. The Construction Documents include details of construction and specifications for the project. The drawings and specifications indicate the design intent, but do not necessarily include every aspect necessary for the full performance of the Contractor's work. In the absence of any specific details, directions or specifications to the contrary, the Contractor shall use established industry standards for the execution of the work. In the event that the design intent is not clear, the Contractor shall notify the Architect for clarification prior to the start of the work.
4. The General Contractor shall familiarize himself with the construction documents in their entirety and shall notify the Landscape Architect of any conflicts and/or discrepancies within the drawings and specifications for resolution of the same.
5. The General Contractor shall obtain all necessary permits from City of Gary and other governing authorities prior to commencing construction.
6. Each Subcontractor shall pay for their inspection services and fees, and make all monetary deposits required by governing authorities, except as otherwise specified.
7. The General Contractor shall make all arrangements with the Owner's Representative pertaining to working hours, security, interruptions of building utilities, storage of equipment and materials, deliveries, use of elevators, trash removal, salvaged materials, and any other items deemed to the mutual interest.
8. The General Contractor shall be responsible for all necessary maintenance of traffic measures necessary to install the work. Traffic control measures shall comply with applicable standards as identified by Indiana Department of Transportation. Traffic control plan shall be reviewed with City Representatives and Architect of Record at pre-installation conference.
9. The work involves construction on the site of a potential occupied building. The General Contractor shall take extreme care and necessary precautions to avoid disruptions to occupants of the building regarding noise, dust, physical obstructions, and activities that are deemed unprofessional.
10. Do not scale drawings: dimensions shall govern. Large-scale details shall govern over small-scale details.
11. General Contractor shall verify dimensions and conditions shown on the construction drawings at the site and shall notify the Architect of any discrepancies, omissions, and/or conflicts before proceeding with the work.
12. Materials and conditions indicated as being "existing" were originally indicated on construction drawings for the base building and/or drawings for previously contracted work. The owner and the Landscape Architect do not guarantee the accuracy of the same. The existing materials and conditions are shown for information purposes only. Contractor shall verify actual materials and conditions in-field.
13. The General Contractor shall acquaint himself with the existing conditions as required to complete the work.
14. Where existing site elements are indicated to be reused; repair such elements and refinish to put in perfect working order.
15. General Contractor shall notify the Owner's Representative of any unforeseen job conditions, which may affect project costs. Extra work and/or costs must be approved in writing by the Owner's Representative prior to construction of such work.
16. The General Contractor shall be responsible for furnishing templates to those subcontractors, manufacturers, and suppliers requiring them for fabrication of their work.
17. General Contractor and Subcontractors shall at all time work in a professional workman-like manner and work expeditiously to complete the project.
18. The premises and the job site shall be maintained in a reasonably neat and orderly condition and kept free from accumulations of waste materials and rubbish during the entire construction period. Remove waste materials or trash from the premises at the end of each working day.
19. The highest quality standards shall be applied on every aspect of the work. The Owner's Representative or the Landscape Architect with the Owner's Representative concurrence, reserves the right to reject work that is not in accordance with the construction documents. The General Contractor shall adjust or replace such work, at Contractor's expense.
20. The General Contractor shall be responsible for any damage to the existing building, its contents, and adjacent grounds and properties due to the insufficiency of protection provided. Damaged items shall be repaired or replaced to match previous undamaged conditions.
21. The General Contractor and his Subcontractors / installers shall turn the project over to the Owner free from all construction debris, materials and equipment. All surfaces to be cleaned, free of dirt, grease and other foreign materials.

GENERAL LANDSCAPE NOTES

1. The locations of public or private utilities shown on the plans are approximate and are not guaranteed to be inclusive. This information represents only the opinion of the Landscape Architect and the Engineer as to the location and elevations of these utilities and is only included for the convenience of the bidders. The Contractor will be required to ascertain the exact location of such utilities and exercise care during operations so as not to damage them. Each Contractor and Subcontractor shall obtain from respective utility companies detailed information relative to the location and elevation of their facilities and the working schedules of the utility companies for removing and adjusting them. Prior to excavating, the Contractor shall contact local utility locating services.

2. Contractor must hand dig at location sensitive areas for utilities. Contractor is responsible for any damage to any utility and must replace damaged utilities at their own cost.

3. The Contractor must furnish, install and maintain construction fence barriers at the work area and around existing trees to remain as indicated in Tree Protection Details & Specifications. The construction fence location should coincide with the limits of construction except where parkway trees in the public R.O.W. are to be protected. This fence may be taken down periodically to aid in certain construction tasks, however must be re-erected at the end of each working day. The Contractor must keep the construction site secure at all times during construction.

4. The Landscape Architect shall not have control over, or be left in charge of work in progress and shall not be responsible for construction means and methods, techniques sequence or procedures, or for safety precautions and programs in connection with the work, since these are solely the Contractor's responsibility under this contract for construction. The Landscape Architect shall not have control over or charge over the Contractor, Subcontractor or their agents. Compliance with all applicable federal, state and local rules & codes is and shall remain the sole responsibility of the Contractor.

5. Trimming, sawing and removal of landscape materials as noted on the plans and required by the Landscape Architect shall be considered incidental to the cost of the item(s) being removed. Request for additional compensation to complete such work will be denied for approval by the Landscape Architect.

6. The Contractor shall adhere to the landscape restoration limits of the project scope. Any work completed beyond the project scope will not be paid for under this contract unless approved by the Landscape Architect and/or approved by the Owner. The Contractor will be responsible for the repair and restoration of curbs and walks at all site access locations. This work will be completed at no additional expense to the Owner.

7. The Contractor shall avoid all existing utilities (underground and overhead) where applicable. Field adjustments recommended by the Contractor and intended to avoid disturbing any such utilities must be approved by the Landscape Architect prior to installation of work. Neither the Owner nor the Landscape Architect assume any responsibility whatsoever in respect to the Contractors accuracy in locating the indicated plant material.

8. In the event of any discrepancies between the plans and the plant list, the plant list shall govern the intent of materials selected.

9. Substitutions of plant material due to availability of materials specified shall be approved by the Landscape Architect. All substituted plant materials shall be equal to or larger than the items specified on the plant list.

TREE & LANDSCAPE PROTECTION SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Protection and trimming of trees that interfere with, or are affected by, execution of the Work.

1.02 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct a preinstallation meeting at least one week prior to the start of the work of this section.
   1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
   2. Review the detailed requirements for the work of this section and to review the drawings and specifications for this work
      a. Require attendance by all affected installers including but not limited to
         1) Contractor's Superintendent
         2) Installer
         3) Manufacturer/Fabricator Representative
         4) Other affected Subcontractors
         5) Architect/Engineer of Record
         6) City's Representative
   3. Record minutes and distribute copies within 5 days after meeting to participants as well as Architect/Engineer of Record, City and those affected by decisions made.

1.03 REFERENCE STANDARDS

A. ANSI A300 Part 1 - American National Standard for Tree Care Operations -- Tree, Shrub and Other Woody Plant Maintenance -- Standard Practices; 2017.

B. ANSI Z133.1 - American National Standard For Arboricultural Operations - Pruning, Repairing, Maintaining, And Removing Trees, And Cutting Brush - Safety Requirements; 2012.

C. ASTM D448 - Standard Classification for Sizes of Aggregate for Road and Bridge Construction; 2012 (Reapproved 2017).

D. ASTM D5268 - Standard Specification for Topsoil Used for Landscaping Purposes; 2013.

1.04 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Certification: From a qualified arborist that trees indicated to remain have been protected during construction according to recognized standards and that trees were promptly and properly treated and repaired when damaged.

C. Maintenance Recommendations: From a Certified Arborist for care and protection of trees affected by construction during and after completing the Work.

1.05 QUALITY ASSURANCE

A. Tree Service Qualifications: An experienced tree service firm that has successfully completed tree protection and trimming work similar to that required for this Project and that will assign an experienced, Certified Arborist to Project site on a full-time basis during execution of the Work.

B. Arborist Qualifications: An arborist certified by the International Society of Arboriculture or licensed in the jurisdiction where Project is located.

C. Tree Pruning Standards: Comply with ANSI A300 Part 1 unless more stringent requirements are indicated.

PART 2 - PRODUCTS

2.01 MATERIALS

A. Drainage Fill: Selected crushed stone, or crushed or uncrushed gravel, washed, ASTM D448, Size 24, with 90 to 100 percent passing a 2-1/2-inch sieve and not more than 10 percent passing a 3/4-inch sieve.

B. Topsoil: Fertile, friable, surface soil, containing natural loam and complying with ASTM D5268. Provide topsoil that is free of stones larger than 1 inch in any dimension and free of other extraneous or toxic matter harmful to plant growth. Obtain topsoil only from well-drained sites where soil occurs in depth of 4 inches or more; do not obtain from bogs or marshes.

C. Filter Fabric: Manufacturer's standard, nonwoven, pervious, geotextile fabric of polypropylene, nylon, or polyester fibers.

D. Protection-Zone Fencing: Plastic construction fencing constructed of high-density extruded and stretched polyethylene fabric with 2-inch maximum opening in pattern and weighing a minimum of 0.4 lb/ft.; remaining flexible from minus 60 to plus 200 deg F; inert to most chemicals and acids; minimum tensile yield strength of 2000 psi and ultimate tensile strength of 2680 psi.
   1. Fencing fixed in position and meeting the following requirements. secured with plastic bands or galvanized-steel or stainless-steel wire ties; and supported by tubular or T-shape galvanized-steel posts spaced not more than 8 feet apart
   2. Height: 4 feet
   3. Color: High-visibility orange, nonfading
   4. Gates: swing access gates matching material and appearance of fencing, to allow for maintenance activities within protection zones; leaf width 36 inches.

PART 3 - EXECUTION

3.01 EXAMINATION

A. The Contractor is responsible for ensuring the ongoing protection of all landscaped areas within the scope of work, including adjacent areas that may be impacted including access and egress routes. Existing landscaping including trees, shrubs, lawns, planting beds, etc. shall be adequately protected by the Contractor so as to avoid destruction and/or damage as a result of operations by the Contractor.

B. Before beginning work, the contractor will be required to meet with the Certified Arborist at the site to review all work procedures, access routes, storage areas, and tree and landscape protection measures.

C. Any proposed changes to agreed-upon work procedures, access routes, storage areas, and/or tree and landscape protection measures must be reviewed and approved by a Certified Arborist prior to implementation of any proposed changes.

3.02 PREPARATION

A. Tree and Landscape Protection Zones
   1. The location, limits and extent of tree and/or landscape protection zones are to be determined in the field by a Certified Arborist prior to any work being performed.
   2. Driving, parking, dumping, stockpiling and/or storage of vehicles, equipment, supplies, materials, debris, spoils, waste or washout water within tree and/or landscape protection zones is strictly prohibited.
   3. All underground utilities, drain and/or irrigation lines are to be routed OUTSIDE the landscape protection zone. If underground lines must traverse the protection area, they shall be tunneled or bored below the root zones.

B. Temporary Fencing: Install temporary fencing at the perimeter of Tree and Landscape Protection Zones as indicated by the Certified Arborist
   1. Fencing is to completely enclose all protected zones.
   2. All temporary fencing to be outside the drip line of trees.
   3. All tree and landscape protection fencing must be in place prior to any work being performed on site, including delivery of materials or supplies, vehicular traffic, installation of security fencing, etc.
   4. Tree and landscape protection fencing is to be maintained intact, by the Contractor, throughout the duration of the work and until all site work has been completed. Removal or relocation of protection fencing must be approved by a Certified Arborist. Fences may NOT be relocated or removed without the written permission of the Certified Arborist.

C. Protect tree root systems from damage due to noxious materials caused by runoff or spillage while mixing, placing, or storing construction materials. Protect root systems from flooding, eroding, or excessive wetting caused by dewatering operations.

D. Do not allow the following within the Tree and Landscape Protection Zones
   1. Storage of construction materials, debris, or excavated material.
   2. Activities that would result in soil compaction over root systems.
   3. Vehicular traffic.
      a. Where temporary haul or access routes must pass over the root area of trees to be retained, a 6-inch thick “access route” of an approved cushioning material shall be put in place to protect the root zones.
      b. The location and route of the temporary “access route” must be approved by the Certified Arborist prior to any work being performed.
      c. The “access route” material shall be replenished as necessary to maintain a uniform 6-inch depth.
      d. Vehicular traffic must be confined to the defined “access route.”

3.03 EXCAVATION

A. Install shoring or other protective support systems to minimize sloping or benching of excavations.

B. Do not excavate within drip line of trees, unless otherwise indicated.

C. Where excavation for new construction is required within drip line of trees, hand clear and excavate to minimize damage to root systems. Use narrow-tine spading forks and comb soil to expose roots.
   1. Relocate roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and relocate them without breaking. If encountered immediately adjacent to location of new construction and relocation is not practical, cut roots approximately 3 inches back from new construction.
   2. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.

D. Existing Landscape Planters. Existing compacted soil in landscape planters shall be loosened by air spade to a depth of twelve (12") inches per the construction details. The top four (4") inches shall be removed and replaced with three (3") inches of new topsoil, and one (1") inch of compost per the construction details.
   1. Relocate roots in backfill areas where possible. If encountering large, main lateral roots, expose roots beyond excavation limits as required to bend and relocate them without breaking to accommodate proposed improvements.
   2. Do not allow exposed roots to dry out before placing permanent backfill. Provide temporary earth cover or pack with peat moss and wrap with burlap. Water and maintain in a moist condition. Temporarily support and protect roots from damage until they are permanently relocated and covered with soil.

E. Where utility trenches are required within drip line of trees, tunnel under or around roots by drilling, auger boring, pipe jacking, or digging by hand.
   1. Root Pruning: Do not cut main lateral roots or taproots; cut only smaller roots that interfere with installation of utilities. Cut roots with sharp pruning instruments; do not break or chop.

3.04 REGRADING

A. Grade Lowering: Where new finish grade is indicated below existing grade around trees, slope grade beyond drip line of trees. Maintain existing grades within drip line of trees, unless otherwise recommended by Certified Arborist.
   1. Root Pruning: Prune tree roots exposed during grade lowering. Do not cut main lateral roots or taproots; cut only smaller roots. Cut roots with sharp pruning instruments; do not break or chop.

B. Minor Fill: Where existing grade is 6 inches or less below elevation of finish grade, fill with topsoil. Place topsoil in a single un-compacted layer and hand grade to required finish elevations.

C. Moderate Fill: Where existing grade is more than 6 inches, but less than 12 inches, below elevation of finish grade, place drainage fill, filter fabric, and topsoil on existing grade as follows:
   1. Carefully place drainage fill against tree trunk approximately 2 inches above elevation of finish grade and extend not less than 18 inches from tree trunk on all sides. For balance of area within drip-line perimeter, place drainage fill up to 6 inches below elevation of grade.
   2. Place filter fabric with edges overlapping 6 inches minimum.
   3. Place fill layer of topsoil to finish grade. Do not compact drainage fill or topsoil. Hand grade to required finish elevations.

3.05 TREE PRUNING

A. All pruning shall be performed by a Certified Arborist.

B. Prune remaining trees affected by temporary and new construction and as indicated.

C. Prune remaining trees to compensate for root loss caused by damaging or cutting root system.

D. Prune trees according to ANSI A300 Part 1 and ANSI Z133.1.

E. Cut branches with sharp pruning instruments; do not break or chop.

F. Chip branches removed from trees. Spread chips where indicated or as directed by Architect/Engineer of Record.

3.06 TREE REMOVAL

A. All trees to be removed from within the project area shall be removed by a Certified Arborist.

B. Trees shall be cut near ground level and the stump ground out to a clear depth of eighteen inches below grade, or as otherwise specified.

C. Trees to be removed from project areas not within tree protection zones must be felled and removed in such a way as to avoid damage to trees and landscaping to remain.

3.07 TREE REPAIR AND REPLACEMENT

A. Promptly repair trees damaged by construction operations within 24 hours. Treat damaged trunks, limbs, and roots according to written instructions of the Certified Arborist.
   1. Damage or injury to trees includes, but is not be limited to: breakage, gouging, stripping, skinning, inappropriate pruning or cutting to bark, limbs, branches, trunks and/or roots, and/or compaction, dumping or flooding of roots or root zones.

B. Remove and replace dead and damaged trees that the Certified Arborist determines to be incapable of restoring to a normal growth pattern.
   1. Provide new trees of the same size and species as those being replaced.
   2. If tree required to be replaced is more than 6 inches in caliper size, measured 12 inches above grade, provide new tree of 6-inch caliper size and of a species selected by Architect/Engineer of Record.

C. Aerate surface soil, compacted during construction, 10 feet beyond drip line and no closer than 36 inches to tree trunk. Drill 2-inch- diameter holes a minimum of 12 inches deep at 24 inches o.c. Backfill holes with an equal mix of augured soil and sand.

3.08 CLEANING

A. Remove excess excavated material, displaced trees, and excess chips from site.

B. Burning is not permitted.

C. Remove all temporary fencing.

D. Remove all cushioning material installed for “access routes”. Material must be removed either by hand or with small bobcat-type machines. All of the material must be completely removed. Where small machinery is used to remove the bulk of the material, removal of material in contact with the soil surface must be done by hand, and in such a way as to minimize disturbance of the soil surface and prevent damage to surface or feeder roots.

E. Upon completion of work, the Contractor is responsible for ensuring that all landscaped areas within the scope of work, including adjacent areas that may have been impacted, are clean and free of trash or debris.

F. All existing landscaped areas are to be restored to their previous condition.

END OF SECTION

NOT FOR CONSTRUCTION

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GENERAL NOTES & SPECIFICATIONS - TREE & LANDSCAPE PROTECTION

Sheet

L0.00

PLANTING SPECIFICATIONS

PART 1 - GENERAL

1.01 SECTION INCLUDES

A. Preparation of subsoil.
B. Topsoil bedding.
C. New trees, plants, and ground cover.
D. Mulch and Fertilizer.
E. Maintenance.
F. Tree Pruning.
G. Protection of existing plantings and gardens.

1.02 DEFINITIONS

A. Weeds: Any plant life not specified or scheduled.
B. Plants: Living trees, plants, and ground cover specified in this Section , and described in ANSI Z60.1.

1.03 REFERENCE STANDARDS

A. ANSI/AHIA Z60.1 - American National Standard for Nursery Stock; 2014.

1.04 ADMINISTRATIVE REQUIREMENTS

A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to the start of the work of this section.
   1. Ensure required submittals have been provided with sufficient time for review prior to scheduling the Preinstallation Meeting.
   2. Review the detailed requirements for the work of this section and to review the drawings and specifications for this work.
      a. Maintenance procedures for surrounding streets, walks, paving and site amenities.
      b. Procedures for work on public property.
      c. Plant locations and procedures for adjustment.
   3. Require attendance by all affected installers including but not limited to
      a. Contractor's Superintendent
      b. Installer
      c. Manufacturer/Fabricator Representative
      d. Other affected Subcontractors
      e. Architect/Engineer of Record
      f. City's Representative
   4. Record minutes and distribute copies within 5 days after meeting to participants as well as Architect/Engineer of Record, City and those affected by decisions made.

1.05 SUBMITTALS

A. Submit list of proposed plant material/sources.
B. Submit photographs taken in the nursery of proposed plant material prior to requesting inspection and tagging.
   1. In addition to review of plant material photographs, Architect/Engineer of Record may inspect and tag plant material at nursery. Such inspection shall be in addition to inspection at job site.
   2. If plants and materials required to be inspected are located outside radius of 25 miles from Project site, Architect/Engineer of Record's direct and indirect cost including normal profit shall be borne and paid by Contractor.
D. Maintenance instructions for care of installed plants.
E. Test Reports: Certified analyses by recognized laboratory for humus, fertilizer. Manufacturer's analysis for standard products will be acceptable.
F. Test Reports: Percolation tests at tree pits.
G. Samples: Representative soil samples (no composite samples) to a laboratory certified by the Indiana Environmental Protection Agency and provide analysis results to the City's Representative for approval.
H. Mulch Sample, Source Information, and Analysis

1.06 QUALITY ASSURANCE

A. Investigate sources of supply and confirm they can supply plants specified on plant list in sizes, variety, and quality noted and specified. Failure to take this precaution will not relieve responsibility for furnishing and installing plant material in accordance with Contract requirements. Substitutions may be permitted only upon submission of written proof that specified plant is not obtainable locally. Such substitution may be made upon written authorization by Architect/Engineer of Record.
B. Installer Qualifications: Company specializing in installing and planting the plants specified with 5 years experience successfully completing projects of a similar size and value.
   1. Perform planting by personnel familiar with accepted landscape planting procedures. A qualified foreman, with a minimum of 5 years experience installing plant material is to be on-site during planting procedures.

1.07 REGULATORY REQUIREMENTS

A. Comply with State of Indiana and federal laws with respect to inspection of all plants for plant diseases and insect infestation. Submit an inspection certificate, required by law to this effect, with each shipment.

1.08 DELIVERY, STORAGE, AND HANDLING

A. Balled and Burlapped (B&B) Plants:
   1. Dig and prepare for shipment in manner that will not damage roots, branches, shape, and future development of plant.
   2. Originate from soil which will hold good ball when wrapped with burlap or similar material, bound with twine or cord so as to hold balls firm and intact.
   3. Ball Sizes: Not less than standard established by ANSI/AHIA Z60.1.
   4. Drumlace plants 2 inches in caliper and over.
B. Potted or Container Plants
   1. Provide container to hold ball shape protecting root mass during delivery and handling.
C. Take precautions in accordance with best trade practices to ensure arrival of plant material at job site is in good condition and without injury. Cover plants to prevent drying, disease or injury.
D. Deliver fertilizer to site in original, unopened containers bearing manufacturer's guaranteed chemical analysis, name, trade name, trademark, and conformance to state law.
E. Each shipment shall be accompanied by invoice showing sizes and varieties of plants included in each shipment. Provide copy of invoice to Architect/Engineer of Record upon delivery and verification of plant material received.
   1. Upon delivery and before planting request inspection of plants by Architect/Engineer of Record.
   2. Notify Architect/Engineer of Record, a minimum of 24 hours before delivery of plant material.
   3. Failure to notify Architect/Engineer of Record in advance, in order to arrange proper scheduling may result in loss of time or removal of plant or plants not installed as specified or directed.
   4. Inspection and approval is for quality, size, and variety only, and in no way impairs right of rejection for failure to meet other requirements during progress of Work.
   5. Contractor shall be present during required inspection or as may be required by Architect/Engineer of Record.
F. Set plants which are not to be planted within 4 hours, on ground and heal in with peat, soil, mulch or other media. Plants shall not remain unplanted for longer than 3 days.
G. Protect roots of plant material from drying or other possible injury.
H. Water plants to ensure health and longevity of the plant material until installed.
I. Store fertilizer, humus, and spray materials in weatherproof storage areas and in such manner that their effectiveness will not be impaired.

1.09 FIELD CONDITIONS

A. Planting Seasons:
   1. Spring Planting: From time soil becomes workable, from the date of last frost, or May 15th, whichever comes first, to June 15. Fall Planting: Last week of July to November 15 or up to 6 weeks before the ground freezes. Plant evergreen shrub plantings no later than November 1, and evergreen tree plantings no later than October 15.
   2. Summer Season: First week of June through the last week of August. Planting shall be considered unseasonable and shall require approval by Architect/Engineer of Record. Approval to plant under such conditions shall in no way relieve Contractor from guarantee provisions of these specifications.
   3. Container Plants: Planting season designated above may be extended for container grown plants when approved by Architect/Engineer of Record.
B. Plant only when weather and soil conditions are suitable in accordance with best practices of industry or the needs of the plant material.

PART 2 PRODUCTS

2.01 PLANTS

A. Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.
B. Plant names used in plant list are in accordance with "Standardized Plant Names," published by American Joint Committee on Horticulture Nomenclature (current edition).
C. Provide nursery grown plant material. Provide plants grown within same hardiness zone as project site or have been acclimated to conditions of same hardiness zone for minimum of two growing seasons. Hardiness zones shall conform to "Zones of Plant Hardiness" as provided by U.S. Department of Agriculture.
D. Unless specifically noted otherwise, provide plants of selected specimen quality, have normal habit of growth and be sound, healthy, vigorous plants with well-developed root systems, free of disease, insect pests, their eggs or larvae, and injuries.
E. Do not prune before delivery. Prune only at time of planting and only if branches are damaged.
F. Shade trees that have damaged or crooked leader, or multiple leaders, are not acceptable unless specifically specified. Trees with abrasion of bark, sun scalds, disfiguring knots, or fresh cuts of limbs over 1-1/4 inches, which have not completely calloused, are not acceptable.
G. Plants shall be freshly dug or container-grown. No heeled-in plants or plants for cold storage will be accepted, except as otherwise specified, unless Contractor makes such request in writing and plants are inspected and approved.
H. Plant Size and Species:
   1. Measure plants when branches are in their normal position. Height and spread refer to plant's main body and not from branch tip to branch tip.
   2. Take caliper measurement at point on trunk 6 inches above natural ground line for trees up to 4 inches in caliper and at diameter at breast height (DBH) which is 4 feet 5 inches above root collar for trees 4 inches and over in caliper.
   3. If range of size is given, no plant shall be less than minimum size and not less than 50% of plants shall be as large as upper half of range specified.
   4. Measurements specified are minimum size acceptable and are measurements after pruning, where pruning is required. Plants meeting measurements specified, but not producing normal balance between height and spread, are not acceptable.
   5. Shrubs shall be matched specimens from single block source.
   6. Plants shall be true to species and variety and shall conform to measurement specified in Plant List except that plants larger than specified may be used if approved by Architect/Engineer of Record. Use of such plants shall not result in increase in Contract price. If larger plants are approved, increase ball of earth in proportion to size of plant.
   7. Where plants larger than specified have been submitted in writing for approval and approved in writing by Architect/Engineer of Record, Contractor shall assume responsibility of guarantee for plant in size as planted.
I. Balled and Burlapped Plants (Designated B&B):
   1. Dig plants with firm natural balls of earth of diameter indicated below and of sufficient depth to encompass fibrous and feeding root system necessary for full recovery of plant.
   2. Plants having balls broken or cracked during delivery or at time of planting will be rejected.
   3. For Evergreen trees, trunk diameter shall be used to determine minimum required ball dimensions. Minimum ball dimensions shall be those as specified for single stem trees.
   4. Diameter at top of each ball shall be diameter specified above and diameter at bottom of each ball shall not be less than 70% of specified top diameter. Top and bottom sources shall be parallel.
   5. Ball shall be of specified depth at points perpendicular to bottom of ball.
   6. Balls greater than 30 inches diameter shall be drum-laced.
   7. Architect/Engineer of Record may reject any plant specified as balled and burlapped which fails to conform, in the Architect/Engineer of Record's opinion, to balling requirements set forth herein.
J. Container or Pot Grown Plants:
   1. Container grown plants shall have heavy fibrous root system, or well developed taproot, that has been developed by proper horticultural practice including transplanting and root pruning.
   2. Root system shall have developed sufficiently long for new fibrous roots to develop so root mass will retain its shape and hold together when removed from container.
   3. In no case should container strangle or girdle natural growth of plant.
   4. Groundcovers in containers pots shall have the minimum number of runners and length of runners in accordance with ANSI/AHIA Z60.1.
   5. Diameter of spread shall determine inside diameter of pot in which they shall be grown for at least 3 months prior to delivery.
   6. Plant container sizes shall conform to ANSI/AHIA Z60.1.
K. Deciduous (Shade and Ornamental Trees):
   1. Street tree plantings shall be free of branches equivalent to 1/2 of tree height or so that crown of tree is in proportion to trunk as tree grows.
      a. Trees with ascending branches may be branched 1 foot or more below branch heights as listed.
   2. Provide trees of a comparable species and quality to be reviewed and approved by the City's Program Manager of School Gardens.
L. Evergreen Trees/Shrubs:
   1. Provide evergreen trees of specimen quality.
   2. Provide evergreen shrubs of specimen quality.
   3. Columnar plants:
      a. Provide columnar plants of specimen quality.
M. Deciduous Shrubs:
   1. Provide deciduous shrubs of specimen quality.
N. Perennial, Biennials, Prairie Forbs, and Grasses:
   1. Perennial, biennials, prairie forbs, and grasses specified as "container" or "pot" shall be provided as container grown plants, or shall be provided with firm natural balls of earth with diameter and depth in accordance with American Standard for Nursery Stock for size specified on Plant List.
   2. Ship balled plants in open-air boxes or crates that will minimize handling of each plant prior to installation. Do not plant balled plants if ball is cracked or broken either before or during process of planting.

2.02 SOIL MATERIALS

A. Topsoil: loamy soil from the A horizon of soil profiles of local soils. It shall be relatively free from large roots, sticks, weeds, brush, or stones larger than 25 mm (1 inch) in diameter, or other litter and waste products. At least 90 percent must pass the 2.00 mm (No. 10) sieve and the pH must be between 5.0 and 8.0.
   1. Composition: 45-77 percent silt, 0-25 percent clay, 25-33 percent sand.
   2. Acidity: pH 6.0 to 7.0; amend soil as indicated by tests to achieve this pH range.
   3. Organic content: Three to five percent.
   4. Environmental analysis requirements shall be in accordance with Section 31 23 23.95 - Acceptance of Backfill, Top soil, CU Structural Soil.
   5. Import topsoil conforming to above requirements from off-site sources as required to complete the work. Do not obtain from bogs or marshes.
   6. Perform test analysis on each source of topsoil to demonstrate compliance with the above and submit reports as specified.

2.03 SOIL AMENDMENT MATERIALS

B. Fertilizer: Commercial type, uniform in composition, free flowing, conforming to state and federal laws, and suitable for application with equipment designed for that purpose.
   1. Nitrogen: 6%, 1/4 of nitrogen shall be in form of nitrates, 1/4 in form of ammonia salts, and 1/2 in form of organic nitrogen.
   2. Phosphorus: 24%, available phosphoric acid shall be derived from super phosphate having minimum analysis of 20% available phosphate.
   3. Potash: 24%, potash shall be in form of sulphate of potash.
   4. Balance of fertilizer shall be materials usually present in such products, free from dust, sticks, sand, stone, and other debris.
B. Water: Clean, fresh, and free of substances or matter that could inhibit vigorous growth of plants.
   1. Existing water supply from hose bibs at the project building may be used for all planting operations. Provide hose and equipment necessary for proper watering of plant material. Provide water at no extra cost if it is not available at the project site.

2.04 MULCH MATERIALS

A. Shredded Mulch is suitable for applications specifying hardwood mulch, such as tree planting, mulching around shrubs, perennial beds and other similar mulching and landscape beautification projects.
   1. Mulch is produced from local hardwood trees, well shredded or chipped and aged. Pine, if present, is limited to less than 2%. No pallets or construction lumber is permitted.
   2. Local hardwood trees are chipped Morbark whole tree chipper and then aged an average of 90-120 days. Material is then sized by shredding in a Morbark Model 1000 tub grinder till it passes through 1.75 inch round hole screens.
   3. Not exceed two (2) inches in its largest dimension and must be free of foreign matter, sticks, stones, and clods.
   4. Composted to lessen the buildup of heat. Material is semi-composted till it acquires a pleasing brown color.
   5. "Fines" should not exceed 10% of the total weight. Fines are defined as material passing sieve size #60.
   6. The City will not accept frozen mulch.
   7. Mulch that has been color treated or has dyes or color added will not be accepted. No chemicals or additives are added.
   8. Mulch made from cypress will not be accepted.

2.05 ACCESSORIES

A. Drainage material: Free draining aggregate meeting the requirements of IDOT CA7 and having a pH of 5.5 - 7.
B. Aeration/drainage pipe: Perforated or slotted agricultural drainage pipe capable of withstanding required backfill compaction.
   1. Rigid riser pipe for vertical installation where indicated. Install slotted use compatible pipe and fittings such as tees and caps for horizontal and vertical installations.
   2. Cover aeration/drainage pipe with a geotextile sock.
C. Filter fabric: Nonbiodegradable, needle-punched, non-woven, water permeable, 100% continuous polypropylene or polyester fabric, 3 oz. per sq. yd. minimum, designed for drainage applications without clogging or piping. Capable of withstanding backfilling and compacting operations without tearing or deforming.
D. Wrapping Materials: Burlap.
E. Stakes: Softwood lumber, pointed end.
F. Tree-Watering Devices: Standard bag-type product manufactured for drip irrigation of plants and emptying its water contents over two to nine hours; manufactured from UV-light-stabilized nylon-reinforced polyethylene sheet, PVC, or HDPE plastic.
   1. Size: 15-18 gallons; provide 2 bags for trees with 3 inch or greater caliper.
   2. Schedule: The bags shall be installed immediately following planting and removed at the end of September when trees start to loose their leaves to go dormant. Stop watering and remove bags once it is determined that the plant is established.
   3. Fill frequency: every 5-7 days.
   4. Water: Potable, not warm or hot
   5. Inspect bags for debris prior to filling or refilling.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verify that prepared subsoil are ready to receive work.
B. Do not install plantings where depth of soil over underground construction, obstructions or rock is insufficient to accommodate roots or where pockets in rock or impervious soil will require drainage. Where such conditions encountered in excavation planting areas and where stone, boulders or other obstruction cannot be broke or removed by hand methods and where trees to be planted found under overhead wires, bring to the attention of the Architect/Engineer of Record. Alternate locations for planting may be designated by Architect/Engineer of Record.
C. Remove rock or other underground construction and drain planting areas only when approved by Architect/Engineer of Record. Payment of extra shall be based on in-place volume required to provide normal requirements for plantings.
D. Verify location of underground utilities with appropriate sources prior to construction. Contact Utility Locating Services at least 48 hours before commencing with construction operations. Repair damaged utilities.
E. Conflicts with utilities shall be called to the Architect/Engineer of Record's attention before proceeding with work. Alternate locations for planting may be designated by Architect/Engineer of Record.
F. Saturate soil with water to test drainage.

3.02 PREPARATION

A. Remove foreign materials, weeds and undesirable plants and their roots. Remove contaminated subsoil.
B. Cover surrounding turf (if existing) in manner to protect turfed areas that are to be trucked or hauled over and upon which soil is to be temporarily stocked.
C. Maintain at least one stockpile of topsoil for backfilling plants during planting operations.
D. Stake or paint locations of plants and bed lines. Architect/Engineer of Record must approve locations before excavation is started. Provide 48 hours' notice for approval. Contractor to be present during approval. Make adjustments in locations and outlines as required. In event that pits or areas for planting are prepared and backfilled with topsoil to grade prior to commencement of lawn operations, mark so they can be readily located when work of planting proceeds.

3.03 TOPSOIL/FINISH GRADING

A. Place topsoil during dry weather and on dry unfrozen subgrade. Do not place or work topsoil in frozen or muddy condition.
B. Remove vegetable matter and foreign non-organic material from topsoil while spreading.
C. Establish final grade as shown on drawings. Grades not otherwise indicated are uniform levels or slopes between points where elevations are given or between such points and existing finished grades.
D. Where drawings show existing grades of landscaped areas not to be changed remove enough material to allow placement of 18in. of new topsoil and 6 inches of drainage material beneath shrub plantings and 24 inches of topsoil minimum beneath tree plantings, unless existing topsoil to required depth is undisturbed and of equal or better quality than specified herein. In latter case, existing topsoil may be left in place and use only enough new topsoil to bring these areas up to grade.

3.05 EXCAVATION FOR PLANTING

A. Excavate circular pits with vertical side for plants. Except for ground cover or other bedding type plant material.
   1. Diameter of pits for trees shall be at least 2 feet greater than diameter of ball, or container.
C. Do not lift or carry trees by trunk (unless bare root).
D. Remove trunk and branch packaging. Remove trunk wrap, twine around the branches, and labels. Leave any root packaging in place for now.
E. Find the main root system of balled & burlapped trees, and remove excess soil usually placed on top to protect the trunk and roots during transport. Remove soil from the top of the root ball until the top of the main root system is exposed. There should be several roots at least as big around as a pencil extending in opposite directions from the trunk. You may have to remove 2-4 inches of soil before finding the main roots. TIP: Probe the soil ball with a wire, kabob skewer, or screwdriver to find the main root system and estimate how much soil to remove. If the roots are located more than 4 inches deep, return the tree to the place of purchase.
F. Depth of pits for trees shall be less than the depth of base of root ball to the root collar. Excavate to a depth that leaves the root collar 1 - 2 inches above grade. Because of the weight of the tree and once it's watered, the tree will sink. Planting the root collar slightly above grade will prevent the trunk from being buried. Buried trunks will rot the cambium of the tree and both stress and kill the tree.
G. All planting areas must have adequate drainage. Install under drainage pipes in all planting areas and connect to storm sewer. Where percolation tests indicate adequate percolation of 1 inch per hour minimum, sump drainage may be used. Auger an 8-inch diameter by 6-foot deep drainage passage beneath individual tree pits. Fill passage with drainage material and cover with filter fabric. Utilize continuous trench for rows of trees. Excavate a drainage sump of indicated dimensions adjacent to each tree. Fill sump with drainage material and cover with filter fabric.
H. Utilize continuous trench for shrub masses and hedges instead of separate round pits. Auger an 8-inch diameter by 6-foot deep drainage sump every 8 ft along length of plant pit. Fill passage with drainage material and cover with filter fabric.
I. Install aeration/drainage pipe system in tree planting trenches as indicated.
J. Remove excess soil materials from site in accordance with environmental specifications.

3.06 PREPARATION OF PLANTING PITS

A. Perform percolation tests for all plant pits. If drainage problems are encountered, review with Architect/Engineer of Record.
B. Where obstructions below or above ground are encountered, alternate locations may be selected as approved by Architect/Engineer of Record.
C. Where locations cannot be changed as determined by Architect/Engineer of Record, submit cost required to remove obstructions to depth of not less than 6 in. below required pit depth. Proceed with work after approval of Architect/Engineer of Record.
D. Dispose of excavated material not suitable for backfilling offsite in legal manner.
E. Scarify walls of plant pits.
F. Tamp down base of pit to make sure that once the tree is placed in the hole, it will not easily sink.

(CONTINUED ON NEXT SHEET)

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BROADWAY LANDSCAPE IMPROVEMENTS

Gary, Indiana

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PLANTING SPECIFICATIONS (continued)

3.07 PLANTING

A. Balled and Burlapped (B&B) Plants:
   1. Balled-and-burlapped trees: Remove the top of the root ball packaging. Cut any twine from around the trunk taking care not to nick the bark. Then bend the wire basket back off the top of the ball. Remove soil from the top of the root ball until the main root system is found. You may have to cut some of the wire. Leave the rest of the wire basket in place until the tree is put in the ground.
   2. Measure that the pit or trench created, with a compacted bottom, is 1-2" shallower than the measurement from the root collar to the base of the root ball. This will leave trees that are 1-2" above finished grade as it bore to its previous finish grade in nursery. Place plants being planted in pits or trenches in center of pit or trench.
   3. Backfill edges of planting pits (between rootball and side of pit) with topsoil in layers and tamp each layer to fill voids until planting mixture is at final grade. No additional soil should be added to the top of the rootball so that the root collar is exposed.
   4. Once trees are fully watered and mulched, remove nursery plant identification tags.

B. Container Grown Plants:
   1. Open and remove potted plants from containers.
   2. Pull or cut the soil off the top of the root ball until the main root system is found. TIP: A saw works well to remove the top layer of soil. Be careful not to cut into the trunk.
   3. Remove all small roots above the main root system with a hand pruner.
   4. Examine the main root system for roots that extend out but then turn to the side or back towards the trunk. Prune these roots at the point where they turn.
   5. If growing medium is comprised of 75% or more of peat, perlite, sand or like material other than soil, pull visible roots away from container medium so as to leave roots partially exposed.
   6. Place plants in plant pit or trench and carefully backfill with topsoil among exposed roots. Continue backfilling and tamping in 6-inch layers until root collar is at final grade.
   7. Remove nursery plant identification tags.

C. Saucer Formation:
   1. Form shallow saucer around each isolated plant pit with topsoil.
   2. Water plants immediately after planting. Incorporate required fertilizer into prepared planting mixture at rate specified.

D. Bed Edging:
   1. Spade edge all planting beds and tree rings 2 inches deep.
   2. Ragged edges and edging will not be accepted.

E. Staking:
   1. Some trees need to be staked to remain standing straight in their new planting site. Stake only if the root ball is unstable or the trunk is bending. Use wide nylon, canvas straps, or nylon stockings wrapped around one side of the trunk. The tree should not be tied tightly.
      a. If the root ball is unstable, use 1-3 stakes attached LOW on the trunk.
      b. If the trunk is bending, use 1 stake attached HIGHER (at least 6 inches below the first set of branches).
   2. Remove stakes after 1-2 years.

3.08 PRUNING

A. Minimize pruning at the time of planting! Prune trees and shrubs at time of or after planting only if they have damaged or dead branches. Trees need as many leaves as possible to recover from transplant shock (leaves produce the tree's food). Do not prune oaks or American elms during growing season due to the potential spread of disease to the pruning cuts. These trees should only be pruned in the winter unless they have a damaged branch that needs to be trimmed.

B. Pruning should only be done by a Certified Arborist and in accordance with standard horticultural practices to retain natural habit and shape of plant.
   1. Shearing of plants will not be accepted, unless instructed by Architect/Engineer of Record.
   2. Preserve leader(s) promoting symmetrical growth on multiple leader plants.

C. Prune and trim dead wood, and injured twigs and branches.

D. Use only clean, sharp tools.

E. Make cuts flush and clean avoiding injury to branch bark ridge or branch collar leaving no stubs.

F. For cuts greater than 3/4 in. in diameter and bruises or scars on bark, trace injured cambium back to living tissue and remove. Smooth and shape wounds so as not to retain water.

G. Prune flowering trees only to remove dead or damaged branches. Do not remove leader.

3.09 MAINTENANCE

A. Provide maintenance at no extra cost to City until Final Acceptance; Landscape/Plant contractor or General Contractor to provide water to the site during this period. If a water source is available on site, the applicable contractor is allowed to access it, if not this maintenance provision shall be performed at the cost of the applicable contractor.

B. Irrigate sufficiently to saturate root system and prevent soil from drying out.

C. Remove dead or broken branches and treat pruned areas or other wounds.

D. Neatly trim plants to ensure the health and longevity of the plants..

E. Immediately remove clippings after trimming.

F. Control growth of weeds by manual/hand removal. Use of herbicides as the last course of action and in accordance with manufacturer's instructions by a Certified Pesticide Applicator.

G. Control insect damage and disease. Insect disease and damage is usually attributed to stressed plants. These plants can be stressed if not properly maintained. Apply pesticides as a last option in accordance with manufacturer's instructions.

H. Remedy damage from improper maintenance.

I. Replace mulch when deteriorated.

J. Maintain wrappings, guys, turnbuckles, and stakes. Adjust turnbuckles to keep guy wires tight. Repair or replace accessories when required. Remove anything that is interfering with the growth of the plant. This might be a guy wire or a stake.

K. Maintain plant material until Final Acceptance.

L. Maintenance begins immediately after each plant is installed and shall include watering, necessary cultivation, weeding, pruning, disease and insect pest control, protective spraying, resetting of plants to proper grades or upright position, restoration of damaged planting saucers, and any other procedure consistent with good horticultural practice necessary to ensure normal, vigorous, and healthy growth of plant material.

M. Salting practices near vegetation:
   1. While generally effective for icy walks, ice-melting products can cause serious landscape problems. When salt-laden sprays from roadways or salt-treated snow come into contact with plants, they coat evergreen and deciduous plants. The salty layer draws moisture away from leaves, twigs and buds, which can cause serious, sometimes fatal problems.
   2. Salt-based de-icing products can also result in excessive salt accumulation in the soil, which can cause salt-sensitive plants to decline or die. Salt levels build up in the soil when salt-laden snow blows -- or is shoveled -- onto plants, and when poor drainage or runoff causes soil concentrations to reach levels that are toxic to plants. Turf grass can be killed when covered with salt-laden snow over the course of winter.
      a. Potassium chloride, is also less damaging to plants and works until temperatures drop below 15 degrees.
      b. Calcium magnesium acetate, also known as CMA, is generally considered the best de-icer from an environmental standpoint with the least impact on plants. It is effective up to temperatures as low as 20 degrees, so CMA does not work as well as calcium chloride products do when the weather is very cold. Many common ice-melt products include a blend of active ingredients to maximize performance at different temperatures. The key is to only apply the recommended amounts to avoid harming garden plants, hardscapes and the environment.

N. Fertilizer:
   1. Apply nitrogen fertilizer ONLY if diagnosis by an arborist indicates that it is necessary.
   2. Apply other fertilizers ONLY if a soil test shows that nutrients are lacking. Do not overdose! Fertilizer that is not absorbed by the tree has the potential to alter the soil or leach out and pollute groundwater, rivers, ponds, and lakes. Overdosing with fertilizer can harm your tree.
   3. Applying a combination herbicide and fertilizer to the lawn might injure or kill the tree. Do not use anything that states it will kill broadleaved weeds (most deciduous trees are broadleaved). Pre-emergent herbicides are safe to use near trees.

O. Mulching:
   1. Mulch shade trees, ornamental trees, singularly planted shrubs, hedge plantings, and massed plantings.
   2. Maintain a ring of mulch around the tree (the wider the better). Cover at least the entire planting pit or trench with minimum 3-inch depth of shredded hardwood bark.
   3. Pull mulch away from the trunk so that none touches the bark since this will eventually become soil and we don't want it to build up around the root collar which should be exposed.
   4. Mulch within five days after installation.

P. Final Acceptance will be granted upon conformance with following:
   1. Plant material shall conform to drawings with respect to quantity, quality, size, species, and location, except those items accepted or revised in field by Architect/Engineer of Record.
   2. Plant material shall be in healthy condition as defined under guarantee requirements below.
   3. Items shall appear to be in general conformance with specifications.

Q. Protect planting areas with warning signs and fences during construction and maintenance period to maintain optimum results.

3.10 CLEANING

A. Remove soil or similar material brought onto paved areas, keeping these areas clean.

B. Upon completion of planting, remove excess soil, stones, and debris and dispose of off-site in legal manner.

3.11 GUARANTEE

A. Contractor shall guarantee for period of one year from the date of Preliminary Acceptance, or from the Preliminary Acceptance to Final Acceptance minimum of one year, replacement of plants which have died, or are in distressed/dying condition, or which have failed to flourish in such manner that their usefulness or appearance has been impaired. Replace any tree with dead main leader or crown that is 25% or more dead. Maintenance watering period for three years after Final Acceptance shall occur for the project. Maintenance watering period for three years after Final Acceptance shall occur for the project.
   1. Exclusions: Contractor shall not be liable for replacement cost of plants damaged by deicing compounds, fertilizers, pesticides or other materials not specified in Contract Documents or not applied by the landscaper, by relocating or removal by others, by acts of God, or by vandalism, and losses due to curtailment of water by local authorities.

B. Inspection of Maintenance Operations:
   1. During guarantee period, City shall, from time to time, inspect watering, cultivation, and other maintenance operations carried on by Contractor with respect to such work, and promptly report to Contractor any methods, practices or operations considered unsatisfactory and not in accord with interests or good horticultural practices.
   2. Failure of Contractor to not comply with issues identified by the City shall be construed as a non compliance of the City's maintenance requirements, and Contractor shall not thereafter claim or assert that any defects which may later develop are result of such methods or practices or operations.

3.12 REPLACEMENTS

A. Plants which die or require replacement for other reasons during one-year guarantee period shall be replaced as soon as possible during following acceptable planting seasons:
   1. Spring Replacement Season: All plants - when ground becomes workable to June 15.
   2. Fall Replacement Season:
      a. Deciduous plants - September 1 to November 15.
      b. Evergreen plants - September 1 to November 1.

B. Procedure:
   1. Dispose of plants off-site in legal manner.
   2. Replacements shall be of same size and species as original plant unless otherwise approved by Architect/Engineer of Record.
   3. Replacements shall be supplied and installed in accordance with specifications.
      a. Additional one-year guarantee for replacement plants shall begin on date of Final Acceptance of plant material by Architect/Engineer of Record as documented in field report.
   4. Replacement and Damages:
      a. Decisions of Architect/Engineer of Record for required replacements shall be conclusive and binding upon Contractor.
      b. Contractor shall be responsible for repairing damage to property also caused by defective workmanship and materials.

3.13 PROTECTING TREES, PLANTS AND GARDENS FROM CONSTRUCTION DAMAGE.

A. Refer to Tree and Landscape Protection Specifications.

END OF SECTION

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LANDSCAPE ARCHITECTURE

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BROADWAY LANDSCAPE IMPROVEMENTS

Gary, Indiana

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SITE FURNISHINGS SPECIFICATIONS

PART 1 GENERAL

1.01 SECTION INCLUDES
- A. GFRC Planters & Furnishings.

1.02 REFERENCE STANDARDS
- A. ADA Standards - 2010 ADA Standards for Accessible Design; 2010.

1.03 SUBMITTALS
- A. Product Data: Provide manufacturer's specifications and descriptive literature, installation instructions, and maintenance information.
- B. Samples: As required for color selection or material thickness only.
- C. Shop Drawings: Indicate plans for each unit or group of units, elevations with model number, overall dimensions, construction, and anchorage details.
- D. Environmental Product Declarations (EPDs): Submit third-party verified and product-specific EPDs for specified material.

1.04 DELIVERY, STORAGE AND HANDLING
- A. Unwrap and inspect planters after delivery for signs of damage during transit.
- B. Protect planters from damage during storage and handling.
- C. Store planters and planter liners out of harm's way, in their original packaging.

1.05 PROJECT CONDITIONS
- A. Contractor to provide a level surface area, adequate for weight of planter and saturated soil of 110 lbs. per cubic sq. ft.
- B. Protect units from damage by adjacent work. Clean units with water spray to remove workplace dust.

1.06 WARRANTY
- A. Product will be free from defects in material and/or workmanship for a period of 3 years from invoice date.
- B. Warranty does not apply to damages from alteration, misuse, or installation damage.
- C. Normal use of these products may result in scratches, nicks, and dents. These are considered normal wear, tear, and are not the responsibility of the manufacturer.
- D. Manufacturer shall have field service team to advise on potential warranty issues.
- E. Manufacturer will, at its option repair, replace, or refund the purchase price of products that are deemed defective by an authorized representative.

PART 2 PRODUCTS

2.01 MANUFACTURERS
- A. Planters
  1. GFRC Planters & furnishings, manufactured by:

     Tournesol Siteworks LLS.
     2930 Faber St.
     Union City, CA 94587
     Tel: 800.542.2282
     www.tournesol.com

2.02 GFRC PLANTERS & FURNISHINGS
- A. Materials
  1. Cement TYPE I, II, OR III per ASTM C150
  2. Fibers: Alkali resistant, with a minimum zirconia content of 16 percent, 1 to 2 inches long, specifically produced for use in GFRC.
  3. Aggregates per: ASTM C144, for sand and aggregates used for structural and aesthetic characteristics
  4. Admixtures per ASTM C494, for concrete enhancing admixtures covering water reduction, retarding/accelerating set times, performance enhancement.
  5. Water: Potable; free from deleterious material that may affect color stability, setting, or strength of GFRC
  6. Water-based fluoropolymer Stone Sealer
- B. Construction

  Architectural parts shall be fabricated by spray laminate method using suitable molds to attain the desired surface finish. The finished face mix shall be not less than 1/8" thick and thicker in those areas requiring additional structural strength. Where ribs or stiffeners are to be fastened to liner sections by spray laminating over premolded forms, the stiffeners or ribs shall be located and spray laminated into position before the section to which they are to be attached has passed the state of curing, and the finished joint shall be strong and durable.
  1. Backing Mix: Proportion backing mix of Portland cement, glass fibers, sand, and admixtures to comply with design requirements. Provide nominal glass-fiber content of not less than 5 percent by weight of total mix.
  2. Face Mix: Proportion face mix of portland cement, sand and admixtures to comply with design requirements.
  3. Polymer Curing Admixture: : 6 to 7 percent by weight of polymer curing admixture solids to dry portland cement.
  4. Coloring Admixture: Not to exceed 10 percent of cement weight.
  5. Stone Sealer: Applied as final protective coat with sprayer.
- C. Performance Characteristics
  1. Planters: As confirmed by Finite Element Analysis (FEA), vertical walls will not deflect more than L/250 over the length (L) of planter when loaded with 110 lbs./cu.ft. level backfill soil media to within 2" of top of Planter. Manufacturer to provide copies of FEA results confirming this performance upon request. Similar performance with heavier soil media is available by specification.
- D. Finish: Specified Finish - FINE GRAIN. Color - SANDBOX. Factory Finished.
- E. Sizes: HCS-3600, HCS-3000, HCS-2400
- F. Drainage Holes: $1\frac{5}{8}$" Drain holes by manufacturer unless otherwise specified.

PART 3 EXECUTION

3.01 EXAMINATION
- A. Prior to planter fabrication, the contractor shall verify as-built dimensions of planter area or receptacles to ensure proper size, fit and quantity required. Installation area, unless otherwise specified, shall be smooth and level.
- B. Unless planters have predrilled drainage holes they are to be located and made by contractor in the field to fit to drainage system.
- C. Do not begin installation until unacceptable conditions are corrected.
- D. Examine areas and conditions, with Installer present, for compliance with requirements for correct and level finished grade, mounting surfaces, installation tolerances, and other conditions affecting performance of the Work.

3.02 INSTALLATION
- A. Install site furnishings in accordance with approved shop drawings, and manufacturer's installation instructions.
- B. Provide continuous basal support.
- C. Install pots level (or shim to level) to permit adequate drainage and irrigation.

3.03 ADJUSTMENT AND CLEANING
- A. Protect finishes of all items from damage during construction by use of temporary protective coverings approved by manufacturers. Remove protective covering immediately before Preliminary Acceptance.
  1. Restore finishes damaged during installation and construction period so that no evidence remains of correction work. Return items which cannot be refinished in the field to the shop; make required alterations and refinish entire unit or provide new units as required.

END OF SECTION

NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECTURE

pamelaself

11 West College Drive Ste A
Arlington, Illinois 60004
847.438.4922
www.pamelaself.com

Christopher Harris
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charris@gary.gov

BROADWAY LANDSCAPE IMPROVEMENTS

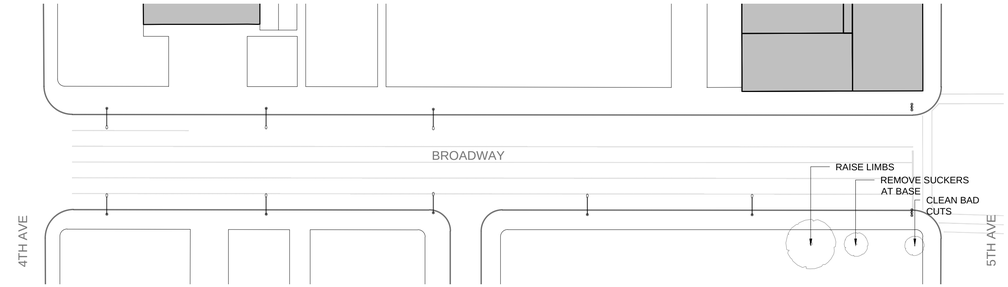
Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

SPECIFICATIONS - SITE FURNISHINGS

Sheet

L0.04

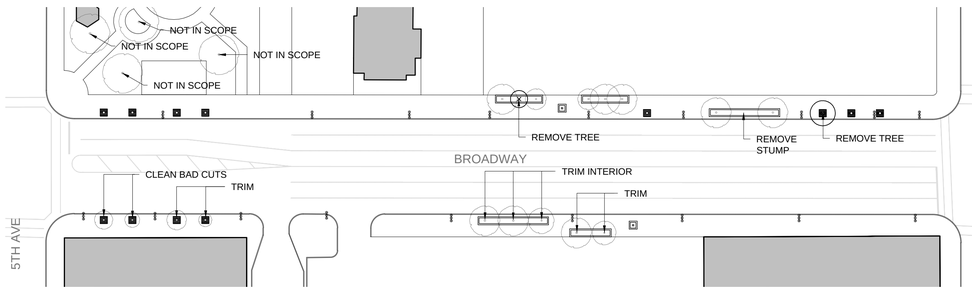


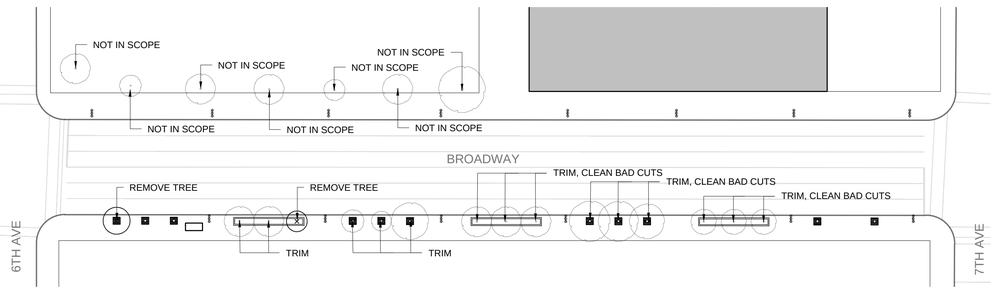
1 BROADWAY - 4TH AVE TO 5TH AVE

SCALE: 1"=50-0"

LEGEND

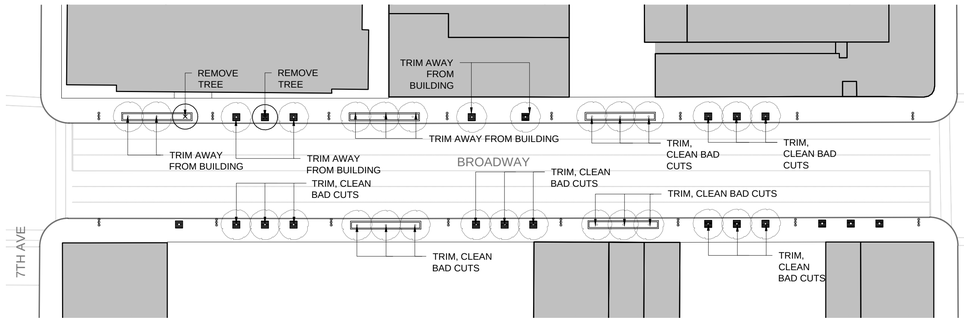
- EXISTING TREE - TO REMAIN
- EXISTING TREE - TO BE REMOVED
- EXISTING TREE PIT AND GRATE
- EXISTING STREET LIGHT - HISTORIC
- EXISTING STREET LIGHT - HISTORIC
- EXISTING STREET LIGHT - MODERN
- STREET PLANTER CURB

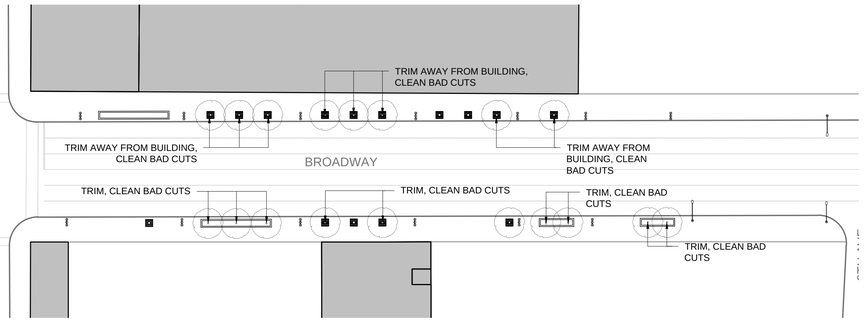




2 BROADWAY - 5TH AVE TO 7TH AVE

SCALE: 1"=50-0"





3 BROADWAY - 7TH AVE TO 9TH AVE

SCALE: 1"=50-0"

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charris@gary.gov

BROADWAY LANDSCAPE IMPROVEMENTS

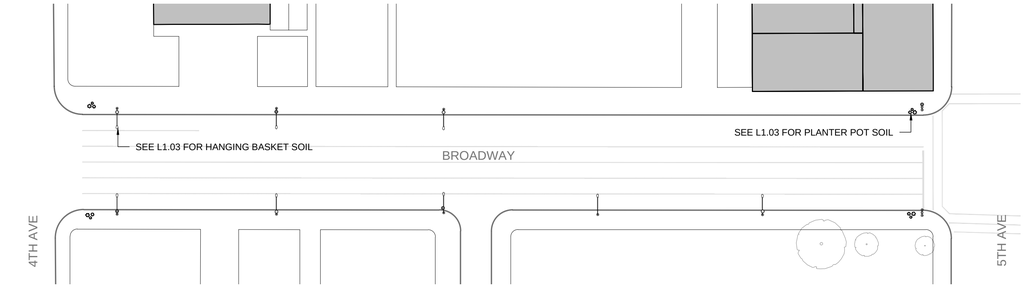
Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

TREE REMOVAL PLAN

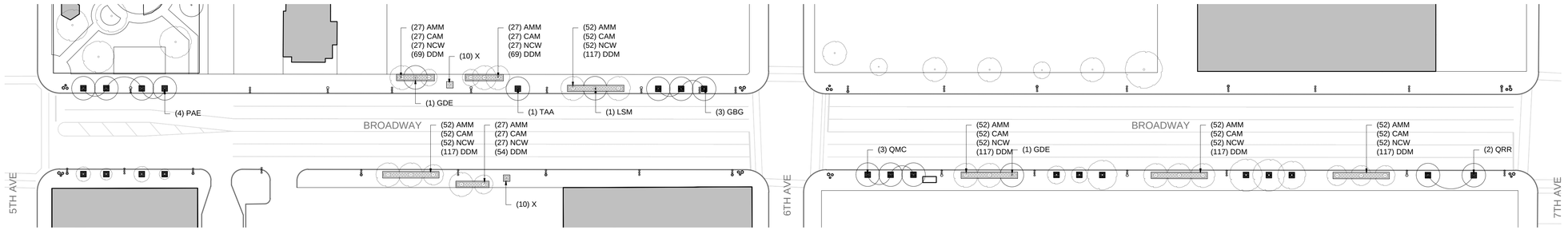
Sheet

L1.00



1 BROADWAY - 4TH AVE TO 5TH AVE

SCALE: 1"=50-0"



2 BROADWAY - 5TH AVE TO 7TH AVE

SCALE: 1"=50-0"

3 BROADWAY - 7TH AVE TO 9TH AVE

SCALE: 1"=50-0"

Plant Schedule

Overstory Trees

Key	Qty	Botanic Name	Common Name	Size	Spacing	Remarks
GBG	4	Gingko biloba	Gingko	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
GDE	6	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffee Tree	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
LSM	4	Liquidambar styraciflua 'Moraine'	Moraine Sweetgum	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
PAE	4	Platanus x acerifolia 'Morton Circle'	EXCLAMATION!™ London Planetree	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
QMC	6	Quercus muehlenbergii	Chinkapin Oak	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
QRR	2	Quercus rubra	Red Oak	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground
TAA	3	Tilia americana 'McKSentry'	American Sentry Linden	3" cal.	As shown	Specimen, symmetrical, branched at 6' above ground

Perennials

Key	Qty	Botanic Name	Common Name	Size	Spacing	Remarks
AMM	689	Allium 'Millenium'	Millenium Allium	gallon	12" o.c.	Plant 12" on center, cut foliage in March
CAM	689	Calamintha nepeta 'Montrose White'	Montrose White Calamint	gallon	12" o.c.	Plant 12" on center, cut foliage in March
NCW	689	Nepeta 'Cat's Meow'	Caat's Meow Nepeta	gallon	12" o.c.	Plant 12" on center, cut foliage in March

Annuals

Key	Qty	Botanic Name	Common Name	Size	Spacing	Remarks
BMW	162	Begonia 'MegaWatt Red w/ green leaf'	MegaWatt Red Begonia	quart	As shown	
CAS	144	Calibrachoa 'Superbells Coral Sun'	Coral Sun Superbells	quart	As shown	
CAP	36	Canna Pretoria	Bengal Tiger Canna	gallon	As shown	
GAU	100	Gaura lindheimeri 'Siskiyou White'	Siskiyou White Gaura	quart	As shown	
GGL	90	Gomphrena globosa 'Las Vegas Purple'	Las Vegas Purple Globe Amaranth	quart	As shown	
IBI	190	Ipomoea batatas 'Illusion Emerald Lace'	Illusion Emerald Lace Potatoe Vine	quart	As shown	
IFR	216	Ipomea floramia 'Rossa'	Rossa Potatoe Vine	quart	As shown	Plant at edge of planter to trail
PTW	270	Petunia 'Tidal Wave Purple'	Tidal Wave Purple Petunia	quart	As shown	Plan at edge of planter to trail
VSR	160	Verbena 'Superbena Raspberry	Superbena Raspberry Verbena	quart	As shown	

Bulbs

Key	Qty	Botanic Name	Common Name	Size	Spacing	Remarks
DDM	1,580	Daffodil Dutch Master	Yellow Daffodil	large bulb	4" o.c.	Plant in groups of 3

NOTES:
1. PERENNIALS SHALL BE PLACED IN FIELD BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
2. SEE SPECIFICATIONS FOR MORE INFORMATION.

LEGEND

- EXISTING TREE - TO REMAIN
- TREE - PROPOSED (1 / L2.00)
- EXISTING TREE PIT AND GRATE
- EXISTING STREET LIGHT - HISTORIC
- EXISTING STREET LIGHT - MODERN
- STREET PLANTER CURB
- PERENNIAL/GROUNDCOVER PLANTING, MULCH (2 / L2.00) (3 / L2.00)
- HANGING BASKET 1
- HANGING BASKET 2
- PLANTER POT - (1) SMALL, (1) MEDIUM, (1) LARGE

NOT FOR CONSTRUCTION

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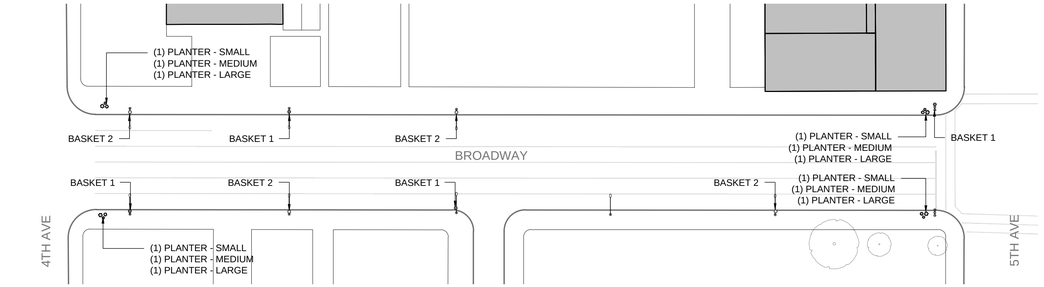
BROADWAY LANDSCAPE IMPROVEMENTS

Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

PLANTING PLAN

Sheet
L1.02



1 BROADWAY - 4TH AVE TO 5TH AVE

SCALE: 1"=50-0"

LEGEND

EXISTING TREE - TO REMAIN

EXISTING TREE - TO BE REMOVED

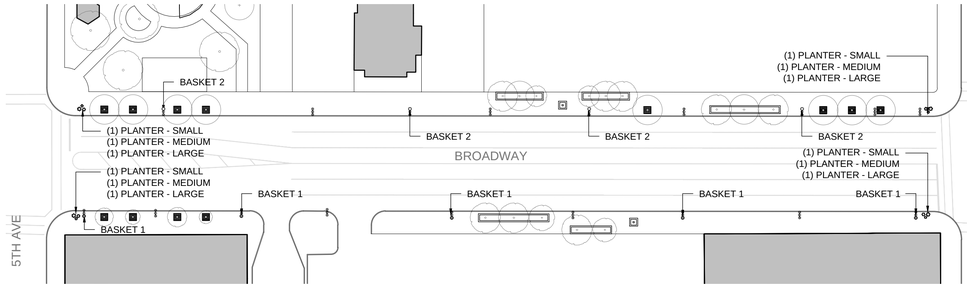
TREE - PROPOSED (1 / L2.00)

EXISTING TREE PIT AND GRATE

EXISTING STREET LIGHT - HISTORIC

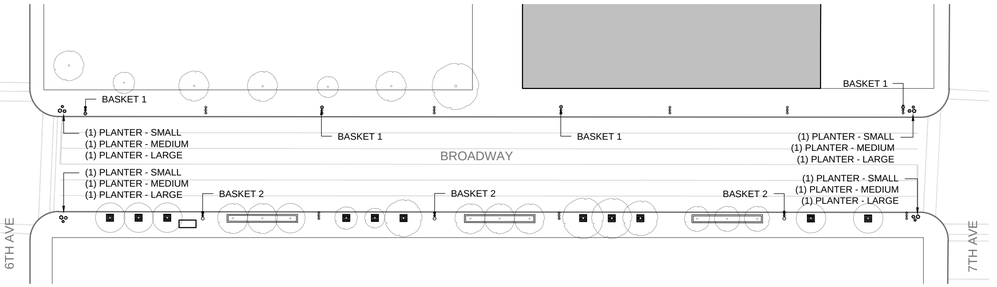
EXISTING STREET LIGHT - MODERN

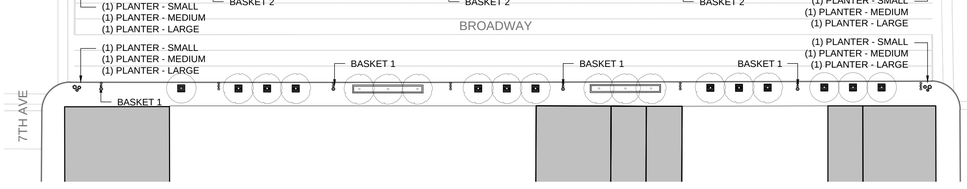
STREET PLANTER CURB



2 BROADWAY - 4TH AVE TO 5TH AVE

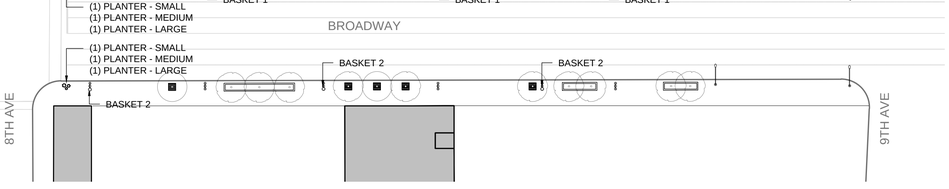
SCALE: 1"=50-0"

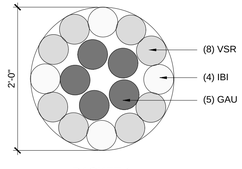




3 BROADWAY - 4TH AVE TO 5TH AVE

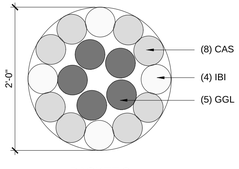
SCALE: 1"=50-0"





BASKET 1

TOTAL: 20
SOIL VOLUME: 3 CF



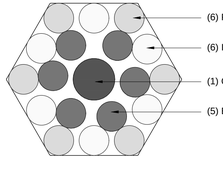
BASKET 2

TOTAL: 18
SOIL VOLUME: 3 CF

NOTES:
1. HANGING BASKET AND HARDWARE BY OTHERS

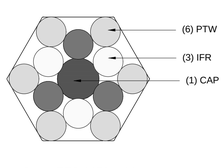
4 ANNUAL PLANTING - BASKETS

SCALE: 1"=1'-0"



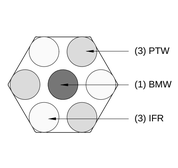
PLANTER LARGE

TOTAL: 18
SOIL VOLUME: 8.8 CF



PLANTER MEDIUM

TOTAL: 18
SOIL VOLUME: 5.2 CF



PLANTER SMALL

TOTAL: 18
SOIL VOLUME: 2.7 CF

NOTES:
1. SEE L2.01 FOR MORE INFORMATION RELATED TO PLANTER POTS

5 ANNUAL PLANTING - POTS

SCALE: 1"=1'-0"

Annuals

Key	Botanic Name	Common Name
BMW	Begonia 'MegaWatt Red w/ green leaf'	MegaWatt Red Begonia
CAS	Calibrachoa 'Superbells Coral Sun'	Coral Sun Superbells
CAP	Canna Pretoria	Bengal Tiger Canna
GAU	Gaura lindheimeri 'Siskiyou White'	Siskiyou White Gaura
GGL	Gomphrena globosa 'Las Vegas Purple'	Las Vegas Purple Globe Amaranth
IBI	Ipomoea batatas 'Illusion Emerald Lace'	Illusion Emerald Lace Potatoe Vine
IFR	Ipomea floramia 'Rossa'	Rossa Potatoe Vine
PTW	Petunia 'Tidal Wave Purple'	Tidal Wave Purple Petunia
VSR	Verbena 'Superbena Raspberry'	Superbena Raspberry Verbena

NOT FOR CONSTRUCTION

LANDSCAPE ARCHITECTURE
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charris@gary.gov

BROADWAY LANDSCAPE IMPROVEMENTS

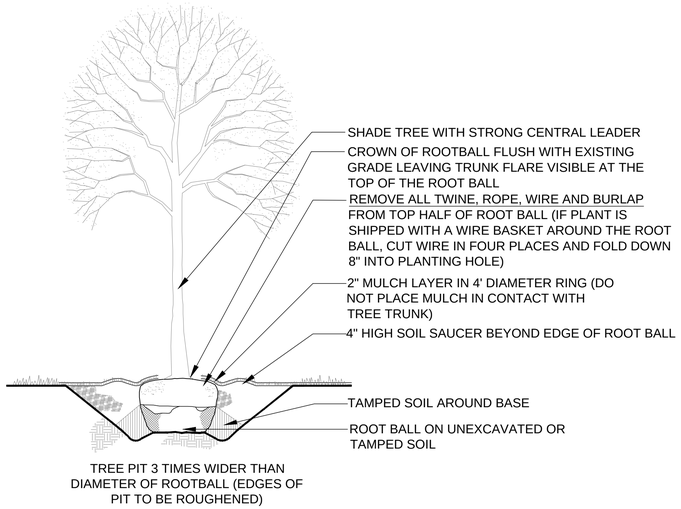
Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

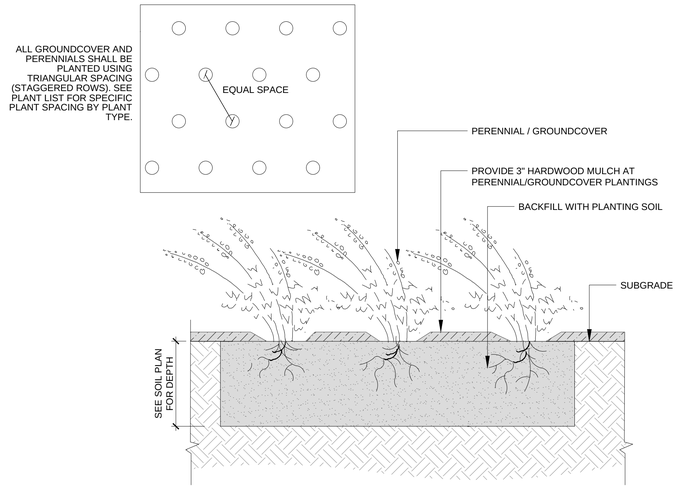
SITE FURNISHING & ANNUAL PLANTING PLAN

Sheet

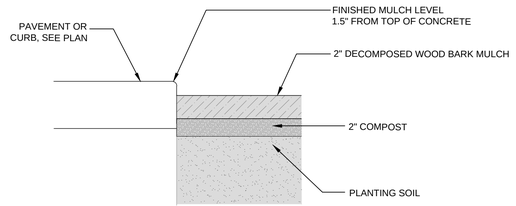
L1.03



1 TREE PLANTING
SCALE: NOT TO SCALE

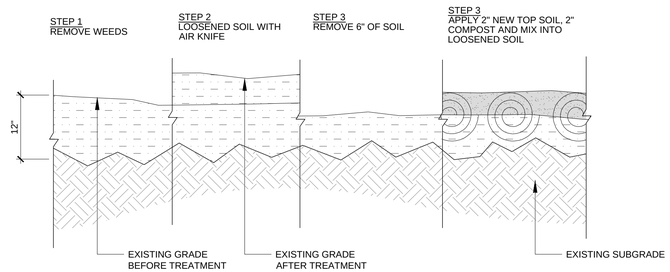


2 PERENNIAL/GROUNDCOVER PLANTING
SCALE: NOT TO SCALE



NOTES:
1. SEE SPECIFICATIONS FOR ADDITIONAL LANDSCAPE, PLANTING, AND SOIL REQUIREMENTS.

3 MULCH
SCALE: NOT TO SCALE



NOTES:
1. PRIOR TO THE START OF WORK, REMOVE ALL THATCH, SOD, AND/OR WEEDS
2. LOOSEN SOIL WITH AIR KNIFE OR APPROVED EQUAL TO A DEPTH OF 12" AND WORK AROUND ENCOUNTERED ROOTS. **DO NOT CUT ROOTS.** NOTIFY AOR IF ROOTS MORE THAN 2" IN DIAMETER ARE ACCIDENTALLY CUT.
3. APPLY 2" OF COMPOST AND 2" OF NEW TOPSOIL OVER LOOSENED SOIL. USE AIR KNIFE TO MIX COMPOST INTO LOOSENED SOIL
4. WATER ENTIRE ROOT ZONE AT END OF WORK DAY.
5. SEE PLANTING SOIL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

4 COMPACTED SOIL IN DRIP LINE MODIFICATION
SCALE: NOT TO SCALE

NOT FOR CONSTRUCTION

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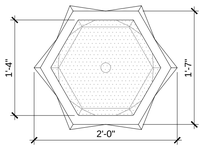
BROADWAY LANDSCAPE IMPROVEMENTS

Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

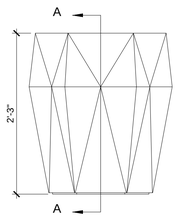
DETAILS - PLANTING

Sheet
L2.00

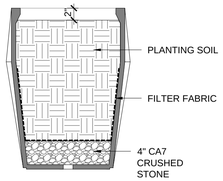


PLAN

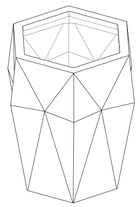
NOTES:
1. MANUFACTURER: TOURNESOL SITEWORKS
(800) 542-2282
2. PRODUCT CODE: HCS-2400
3. MATERIAL: GFRC - LIGHTWEIGHT CONCRETE
4. COLOR: SANDBOX
5. FINISH: FINE GRAIN



ELEVATION

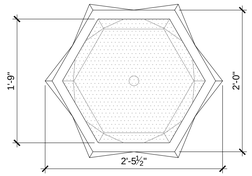


SECTION A-A



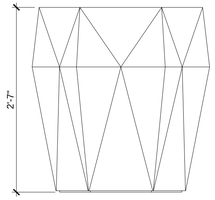
PERSPECTIVE

1 PLANTER POT - SMALL
SCALE: 1"=1'-0"



PLAN

NOTES:
1. MANUFACTURER: TOURNESOL SITEWORKS
(800) 542-2282
2. PRODUCT CODE: HCS-3000
3. MATERIAL: GFRC - LIGHTWEIGHT CONCRETE
4. COLOR: SANDBOX
5. FINISH: FINE GRAIN



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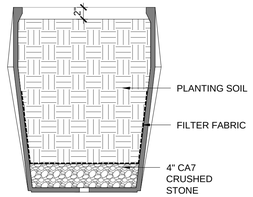
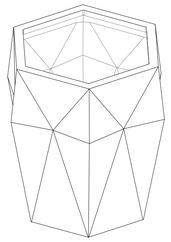
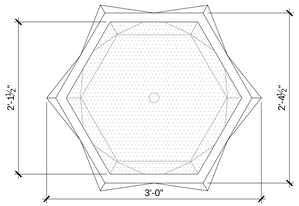


SECTION A-A



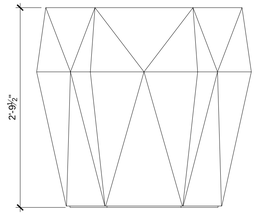
PERSPECTIVE

2 PLANTER POT - MEDIUM
SCALE: 1"=1'-0"

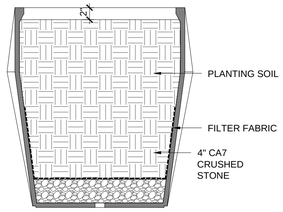


PLAN

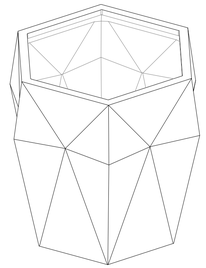
NOTES:
1. MANUFACTURER: TOURNESOL SITEWORKS
(800) 542-2282
2. PRODUCT CODE: HCS-3600
3. MATERIAL: GFRC - LIGHTWEIGHT CONCRETE
4. COLOR: SANDBOX
5. FINISH: FINE GRAIN



ELEVATION



SECTION A-A



PERSPECTIVE

3 PLANTER POT - LARGE
SCALE: 1"=1'-0"

NOT FOR CONSTRUCTION

LANDSCAPE
ARCHITECTURE
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BROADWAY
LANDSCAPE
IMPROVEMENTS

Gary, Indiana

Date	Revision
05.01.2026	Bid Drawings

DETAILS - SITE FURNISHING

Sheet
L2.01