



portkc

REQUEST FOR PROPOSALS

Berkley Plaza Landscape

PORT KC

DATE OF ISSUANCE:

January 10, 2018

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Berkley Plaza Landscape

INTRODUCTION

The Port Authority of Kansas City, Missouri (“Port KC”), a political subdivision authorized under RSMo Chapter 68 and chartered by the City of Kansas City, Missouri, is inviting companies to submit their qualifications and all other required submissions as part of their proposal for performing the services specified in this RFP. Proposer’s submittal of a proposal in response to this RFP does not create any right in or expectation to a contract with Port KC.

Written proposals for Berkley Plaza will include procurement, installation, warranty, and maintenance of amended soil, planting, gravel, boulders, and sod in accordance with the Berkley Plaza CD Set in Exhibit A and described within the RFP.

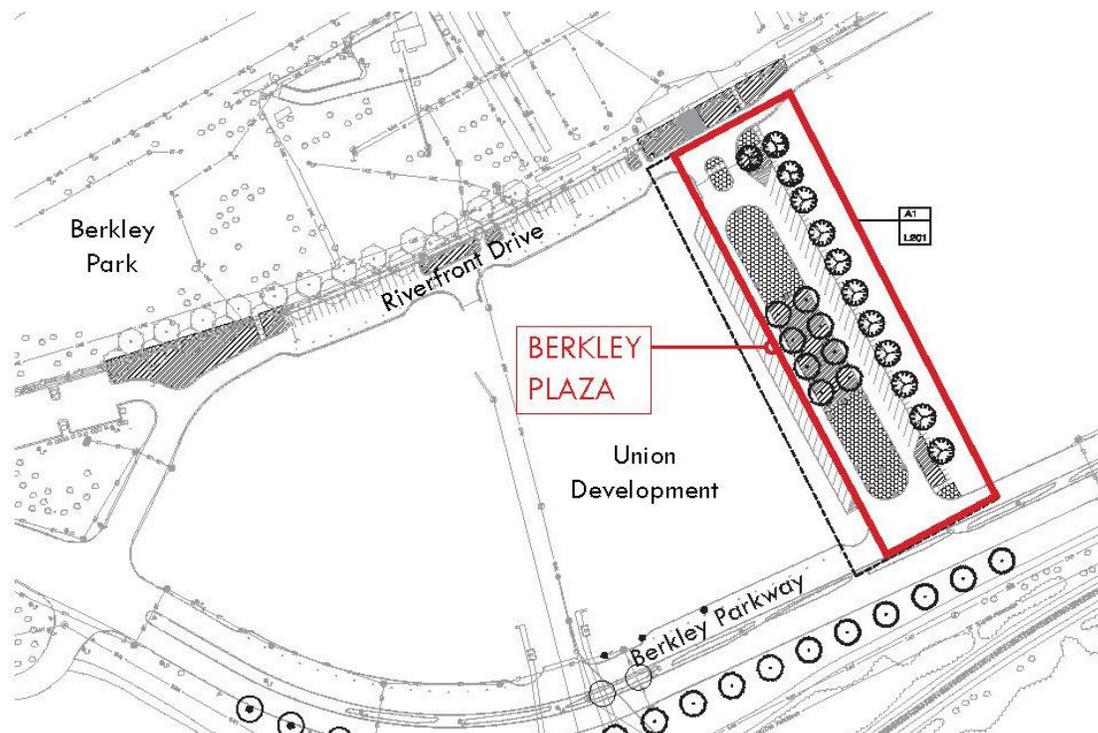


Figure 1: Approximate Berkley Plaza Landscape extents of work, refer to plans and specifications for additional information.

PORT KC BACKGROUND

Port KC's mission is to grow the economy of Kansas City's port district through transportation, global commerce and development.

Port KC is a political subdivision of the State of Missouri created pursuant to Section 68.010 et seq., RSMo and chartered by the City of Kansas City, Missouri. Port KC is governed by a Board of Commissioners appointed by the Mayor of Kansas City. Port KC is granted broad governmental and business enterprise powers for the purpose of promoting economic development and job creation. The most important of these powers include the following:

- To acquire, own, construct, redevelop, lease, maintain, and conduct land reclamation, residential, commercial and mixed-use development, industrial parks, facilities, terminals, terminal facilities and any other type of port facility;
- To promote and expand inland and river port commercial throughput of cargo and freight;
- To identify and pursue redevelopment opportunities at blighted and historic preservation sites;
- To redevelop the Downtown Kansas City Riverfront to promote and develop new opportunities for residence, commerce and leisure; and
- To promote the full integration of multi-modal transportation assets to increase commercial opportunities locally, nationally and internationally.

Port KC's statutory powers of issuing bonds, land reclamation and the ability to enter into contracts to implement its development projects make it a unique and influential agency.

RFQ/P TIMELINE AND GROUND RULES

Anticipated Timeline Summary

- January 10, 2018: RFP Issuance
- January 19, 2018: Pre-submittal meeting
- January 25, 2018: Deadline for questions submittal
- February 2, 2018: RFP submittal deadline
- February 8, 2018: Selection of preferred proposal/begin negotiation of contract terms
- March 1, 2018: Finalize and sign contracts
- March 15, 2018: Anticipated Earliest Date to Begin Work
- June 15, 2018: Last Day for Recommended Spring Planting

The ability to perform the Scope of Work in a timely manner is critical as its completion will affect other construction activities and events for the

Riverfront Development. The negotiation of a contract should commence immediately after the selection of a winning bid, with a target work completion date before June 15, 2018. Port KC and its design consultant estimate that this entire Scope of Work should be completed in approximately 60 days of contract execution. Contractors unable to comply with this timeframe should NOT bid on this project.

Pre-Submittal Meeting. On **January 19, 2018 at 1:30 pm Central Standard Time**, an informational meeting for all interested bidders will be held at the Port KC offices located at 300 Wyandotte Street, Suite 100, Kansas City, Missouri 64105 at which project plans and relevant questions from attendees will be discussed by Port KC and their representatives. A site visit to the planned project location will also possibly follow the in-office meeting. **Attendance at this meeting by those who plan to submit a bid for this project is encouraged.**

Drawing Available. Full size drawings sets are available for review at the Port KC office: 300 Wyandotte St. Suite 100, Kansas City, MO 64105

Submittal. Submission of two (2) sealed proposals and one (1) electronic format (USB or CD/DVD disc) will be accepted by Port KC at its offices located at 300 Wyandotte Street, Suite 100, Kansas City, Missouri 64105, until **February 2, 2018 at 3:00 PM Central Standard Time**. No fax or email proposals will be accepted.

Questions. Any general questions should be submitted to info@portkc.com before **Thursday, January 25, 2018 at 4:00 pm Central Standard Time**. Interested bidders shall not contact individual Port KC staff members before proposals are due. Rather, unless otherwise specified, any and all inquiries must be directed to info@portkc.com. Such questions will then be routed from info@portkc.com to the appropriate Port KC staff member(s) without further action by the inquirer. Failure to follow this procedure may result in a Professional's disqualification. A response will be generated promptly, with a goal of within one to two (1-2) business days of receipt of email. All questions and answers will be posted anonymously on the Port KC Website. The Professional understands and agrees that Port KC shall have no financial responsibility for any costs or losses incurred as a result of proposer responding to this RFQ/P. Port KC reserves the right to reject any and all proposals submitted, and to accept portions of any one proposal.

Evaluation Criteria. All proposals will be evaluated based on their completeness and the estimated total costs of fees and expenses, maintenance requirements and warranty. Included within the considerations for 'completeness' are the Contractor's capacity to perform the work and quality of proposed system(s) and materials.

SCOPE OF WORK

All contractors submitting a proposal are required to quote on all of the work outlined in the “Scope of Work” statement for the proposed bid. No proposal will be accepted that does not comply with this format, address the defined Scope of Work, and incorporate the “Bid Specifications.”

Plans and Project Documents. The Scope of Work is as defined in this RFP and related Project Documents, including the attached following:

1. **Exhibit A.** Drawing and Planting Specification Set
2. **Exhibit B.** KCMO Sod Specifications
3. **Exhibit C.** Bid Form
4. **Exhibit D.** AIA-A305 Qualifications Form
5. **Exhibit E.** Wage Order

The Contractor will complete Bid Forms (**Exhibit C**) and include in the proposal and complete the Qualification Form (**Exhibit D**) and include in the proposal.

Bid Set

Contractor will procure, install, warranty, and maintain the following per the Plans & Specifications should their bid be chosen:

- Amended soil for trees, planting beds, and sod
- Fine grading
- Decorative gravel in curb forebays
- Boulders
- Rain garden planting
- Planting beds
- Mulch
- Sod
- Trees
- 1 year warranty
- 3 month maintenance period (from substantial completion of landscape)
- Bonds and insurance

Project Control Measures. Project control measures assumed as part of the Scope of Work and to be incorporated into the bid include the following:

- Contractor will meet or have a phone call with selected representative(s) of Owner on a weekly basis regular basis, unless otherwise determined by Owner, to review progress and discuss any significant issues affecting the project.
- All debris resulting from the Contractor's operation shall be removed the same day at the contractor's expense. No excess materials shall be dumped on public or private property or deposited into the storm drains or sewer. All materials removed shall be placed outside of the street rights-of-way, which shall be left with a clean and finished appearance.
- A staging/lay-down and access/circulation plan will be required to be entered into with the selected contractor prior to any commencement of work. This plan must include coordinating on known dates of events at Berkley Riverfront and the surrounding land and pavements. Contractor shall provide fencing or barriers in the event that work activities pose risks to the general the public or if pedestrians or vehicular activity would harm newly installed materials.
- Contractor will be required to coordinate with Owner and the general contractor for other current projects at Berkley Riverfront. Copies of specific plans for other projects are available for viewing at Port KC's offices by appointment.
- Contractor will be responsible for grading, sodding, and returning any property outside of the direct work area that is disturbed during the course of the project to its previous condition. Sod, rather than grass seed, must be used unless otherwise specifically permitted by Owner in writing.
- The Contractor shall be responsible for construction staking of improvements and, if irrigation is installed, shall provide Port KC with a set of as-built drawings upon completion of work.
- The Contractor shall provide and maintain all necessary erosion control devices until surface restoration has been completed and growth established. Once Owner deems surface restoration complete, Contractor will be required to remove and properly dispose of off-site all such devices and materials.
- If required, contractor shall be responsible for applications and any steps necessary to obtain, as well as complete payment for, any/all required permits, including but not limited to, traffic control permits, and site/land disturbance permits.

Changes to Scope - Contractors taking issue with the Scope of Work or wishing to add to or delete from the “Scope of Work” may do so only by quoting the defined Scope of Work, then submitting an add, alternate or delete statement clearly stating exactly what they propose to add or delete and how that add, alternate or delete will change the base price. No proposal will be accepted that does not comply with this format or the defined Scope of Work.

BID SPECIFICATIONS

The proposals for performing the described work shall also include on the part of the bidder the factors and disclosure requirements outlined in the Bid Specifications, as detailed below:

- A description of the anticipated project team, including number and title of positions that will be assigned.
- Descriptions of comparable past projects that would serve as examples of experience and expertise necessary for this project, particularly as it relates to complying with applicable Port KC and KCMO standards.
- A proposed fee structure for the work to be performed, including costs for administration/overhead, direct and subcontractor labor, materials, equipment, and any other relevant categories of costs.
- A proposed work plan and associated schedule reflecting all activities, tasks, and time periods necessary to complete this project.
- Submit a Bid Form per **Exhibit C**.

EXISTING CONDITIONS

The location of the project is Berkley Riverfront at approximately 1298 River Front Rd, Kansas City, MO 64120. Access to the site is available for interested bidders after the scheduled Pre-Submittal Meeting or by scheduling an alternative visit by contacting info@portkc.com.

APPLICABLE POLICIES AND STATUTORY REQUIREMENTS

Port KC’s Affirmative Action Construction Workforce Policies – Although the anticipated value of this work is not expected to be high enough to require certain features of Port KC’s Affirmative Action or Construction Workforce Policies, Port KC encourages participation by companies who have been certified as a Minority Business Enterprise (“MBE”) or Women’s Business Enterprise (“WBE”) by the City of Kansas City, Missouri Human Relations Department or State of Missouri as well as employment of minority and women workers. A copy of these policies can be found at the following links:

Port KC's Affirmative Action Policy: <http://portkc.com/wp-content/uploads/2017/04/Exhibit-A-Affirmative-Action-Policy-with-Statement-of-Intended-Utilization.pdf>

Port KC's Construction Workforce Policy: <http://portkc.com/wp-content/uploads/2017/04/Exhibit-B-Construction-Workforce-Policy-with-Affidavit.pdf>

Prevailing Wage – THIS PROJECT IS A PREVAILING WAGE PROJECT. The Prevailing Wage Law (Section 290.250, RSMo) requires that on every construction project in the state that is for the public use or benefit, or uses local funds, not less than the prevailing hourly rate of wages, as set out in the attached wage order and made part of this specification for work, shall be paid to all workers performing under contact. See attached **Wage Order No. 24 – Jackson County.**

Participation in a Federal Work Authorization Program – Section 285.530.2, RSMO requires that as condition for the award of any contract in excess of five thousand dollars the business entity shall, by sworn affidavit and provision of documentation, affirm its enrollment and participation in a federal work authorization program with respect to the employees working in connection with the contracted services. This requirement will be incorporated into the final construction contract for the potential bid winner, and any potential bid winner's failure to sign the affidavit of compliance may result in revocation of the award.

Payment Bond – A PAYMENT BOND IS REQUIRED FOR THIS PROJECT. Section 107.170, RSMo requires that for any public works contract in excess of \$50,000.00, Professionals for such work must furnish the public entity (Port KC) with a payment bond equal to the value of all anticipated labor and payment costs for the project. This will be required of Professionals for public works projects in excess of \$50,000.00, and any potential bid winner's failure to provide a payment bond may result in revocation of the award.

Insurance - Proposal selection may also be conditioned on the selected Contractor meeting any statutory insurance requirements, including but not limited to workers compensation. Port KC may require proof of insurance carried by the selected Contractor.

QUALIFICATIONS OF CONSULTANTS

Proposals must address the specific items as outlined in the Bid Specifications. Bidders are also required to submit a contractor's qualification statement using AIA-A305. **See Exhibit D.**

EXHIBIT A

Landscape Plans and Specifications Sheets

Full-size hard copy sets available at Port KC

BID SET SHEET INDEX:

- L200 - CONTEXT PLAN
- L201 - LANDSCAPE PLAN
- L202 - NOT USED
- L203 - NOT USED
- L204 - LANDSCAPE DETAILS & SPECS
- L205 - LANDSCAPE SPECS

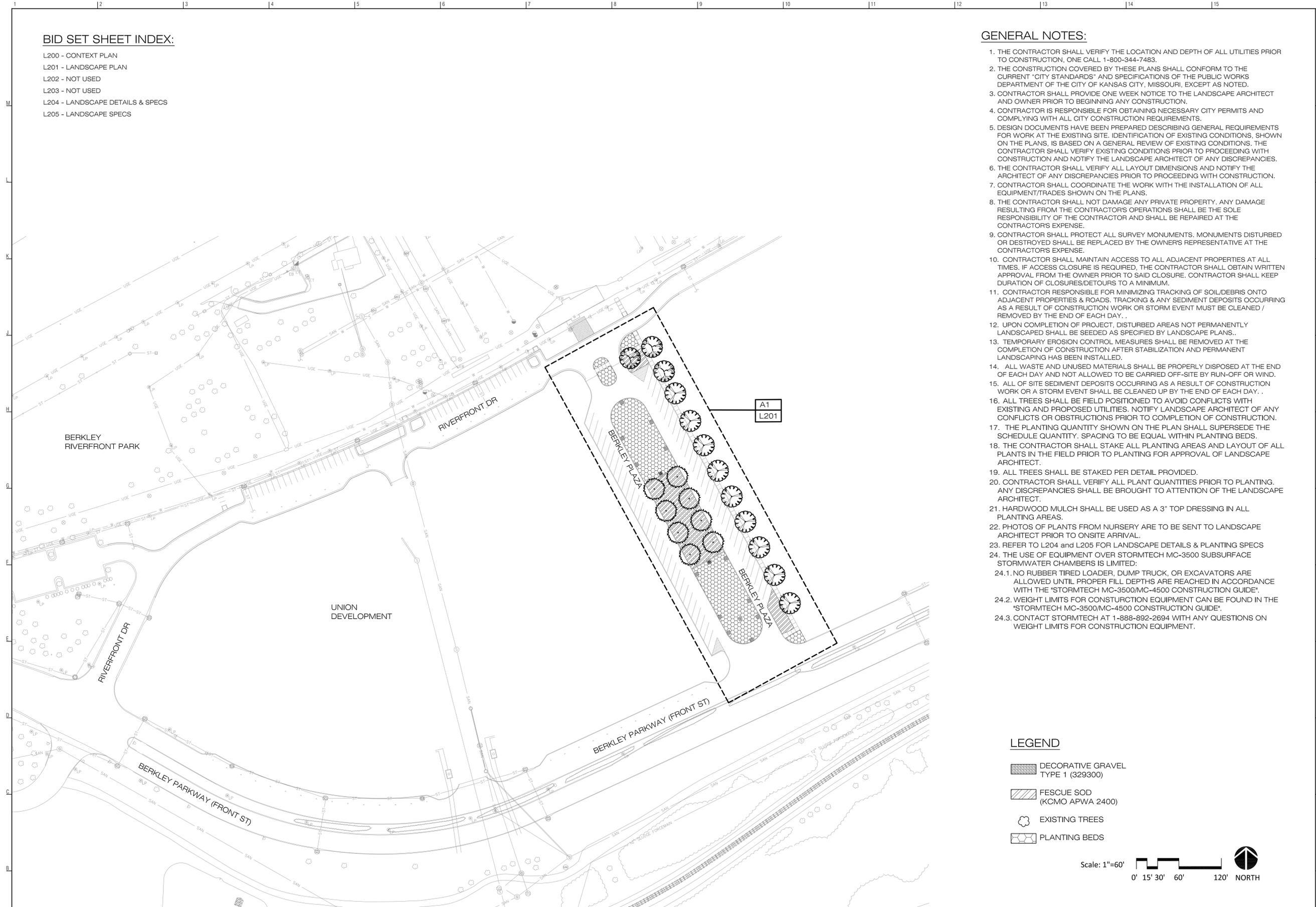
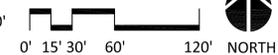
GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION, ONE CALL 1-800-344-7483.
2. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO THE CURRENT "CITY STANDARDS" AND SPECIFICATIONS OF THE PUBLIC WORKS DEPARTMENT OF THE CITY OF KANSAS CITY, MISSOURI, EXCEPT AS NOTED.
3. CONTRACTOR SHALL PROVIDE ONE WEEK NOTICE TO THE LANDSCAPE ARCHITECT AND OWNER PRIOR TO BEGINNING ANY CONSTRUCTION.
4. CONTRACTOR IS RESPONSIBLE FOR OBTAINING NECESSARY CITY PERMITS AND COMPLYING WITH ALL CITY CONSTRUCTION REQUIREMENTS.
5. DESIGN DOCUMENTS HAVE BEEN PREPARED DESCRIBING GENERAL REQUIREMENTS FOR WORK AT THE EXISTING SITE. IDENTIFICATION OF EXISTING CONDITIONS, SHOWN ON THE PLANS, IS BASED ON A GENERAL REVIEW OF EXISTING CONDITIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO PROCEEDING WITH CONSTRUCTION AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
6. THE CONTRACTOR SHALL VERIFY ALL LAYOUT DIMENSIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH CONSTRUCTION.
7. CONTRACTOR SHALL COORDINATE THE WORK WITH THE INSTALLATION OF ALL EQUIPMENT/TRADES SHOWN ON THE PLANS.
8. THE CONTRACTOR SHALL NOT DAMAGE ANY PRIVATE PROPERTY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL PROTECT ALL SURVEY MONUMENTS. MONUMENTS DISTURBED OR DESTROYED SHALL BE REPLACED BY THE OWNER'S REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AT ALL TIMES. IF ACCESS CLOSURE IS REQUIRED, THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE OWNER PRIOR TO SAID CLOSURE. CONTRACTOR SHALL KEEP DURATION OF CLOSURES/DETOURS TO A MINIMUM.
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12. UPON COMPLETION OF PROJECT, DISTURBED AREAS NOT PERMANENTLY LANDSCAPED SHALL BE SEEDED AS SPECIFIED BY LANDSCAPE PLANS.
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22. PHOTOS OF PLANTS FROM NURSERY ARE TO BE SENT TO LANDSCAPE ARCHITECT PRIOR TO ONSITE ARRIVAL.
23. REFER TO L204 and L205 FOR LANDSCAPE DETAILS & PLANTING SPECS
24. THE USE OF EQUIPMENT OVER STORMTECH MC-3500 SUBSURFACE STORMWATER CHAMBERS IS LIMITED:
 - 24.1. NO RUBBER Tired LOADER, DUMP TRUCK, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
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LEGEND

-  DECORATIVE GRAVEL TYPE 1 (329300)
-  FESCUE SOD (KCMO APWA 2400)
-  EXISTING TREES
-  PLANTING BEDS

Scale: 1"=60'



OWNER:
Port KC
 300 Wyandotte, #100
 Kansas City, MO 64105

CIVIL ENGINEER:
Taliaferro & Browne, Inc
 1020 E. 8th St
 Kansas City, MO 64106

LANDSCAPE ARCHITECT:
Phronesis
 1427 W 9th Street, #301
 Kansas City, MO, 64101
 T 816-214-0896
 www.phronesis-design.com



Berkley Plaza Landscape

Berkley Riverfront
 Kansas City, Missouri

ALL DRAWINGS AND WRITTEN INFORMATION APPEARING HEREIN SHALL NOT BE DUPLICATED, DISCLOSED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

T. DUGGAN
 PRINCIPAL IN CHARGE
L. KLEIN
 PROJECT MANAGER

PROJECT TEAM MEMBERS

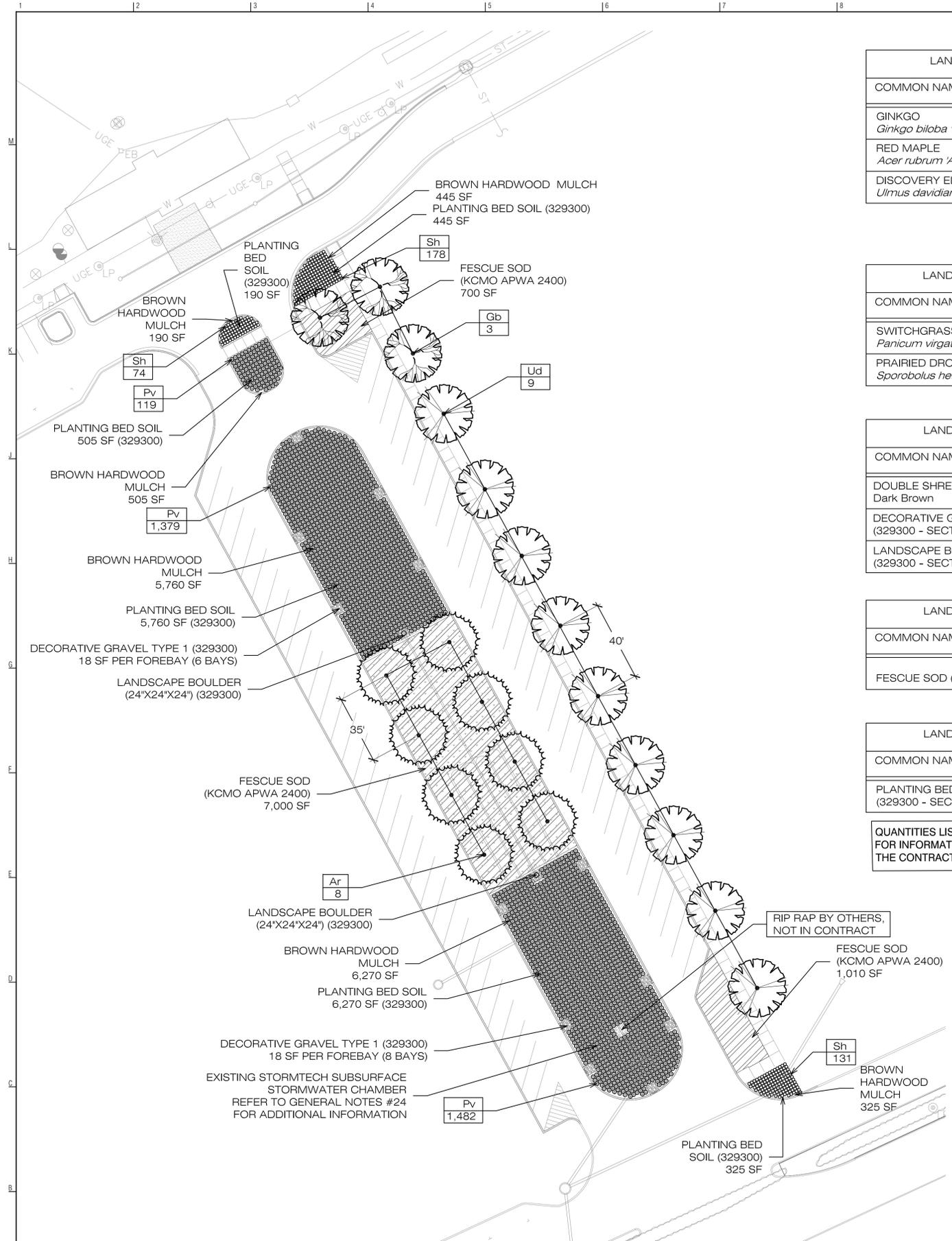
PERMIT SET 10/25/16
 RELEASE & REVISION DATES

BID SET 01/10/18
 ISSUE DATE

CONTEXT PLAN
L 200

A1 CONTEXT PLAN

1"=60' RE:



LANDSCAPE SCHEDULE - TREES (THIS PAGE ONLY)			
COMMON NAME	SIZE	QUANTITY	SYMBOL
GINKGO <i>Ginkgo biloba 'Princeton Sentry'</i>	2" CAL.	3	Gb
RED MAPLE <i>Acer rubrum 'Autumn Blaze'</i>	2" CAL.	8	Ar
DISCOVERY ELM <i>Ulmus davidiana 'Discovery'</i>	2" CAL.	9	Ud

LANDSCAPE SCHEDULE - PLANTS (THIS PAGE ONLY)				
COMMON NAME	SIZE	QUANTITY	SYMBOL	SPACING
SWITCHGRASS <i>Panicum virgatum 'Shenandoah'</i>	#1	2,980	Pv	24" O.C.
PRAIRIED DROPSEED <i>Sporobolus heterolepis</i>	#1	383	Sh	18" O.C.

LANDSCAPE SCHEDULE - MULCH	
COMMON NAME	QUANTITY
DOUBLE SHREDDED HARDWOOD MULCH Dark Brown	125 CU. YDS
DECORATIVE GRAVEL TYPE 1 - 18" DEPTH (329300 - SECTION 2.12)	252 SF
LANDSCAPE BOULDER (24"X24"X24") (329300 - SECTION 2.13)	2

LANDSCAPE SCHEDULE - TURF	
COMMON NAME	QUANTITY
FESCUE SOD (KCMO APWA 2400)	8,710 SF

LANDSCAPE SCHEDULE - SOIL	
COMMON NAME	QUANTITY
PLANTING BED SOIL - 12" DEPTH (329300 - SECTION 2.11)	13,495 SF

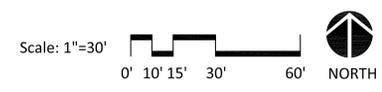
QUANTITIES LISTED ON PLANS AND IN SCHEDULES ARE FOR INFORMATION ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL QUANTITIES.

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- FESCUE SOD (KCMO APWA 2400)
- EXISTING TREES
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Berkley Plaza Landscape

Berkley Riverfront
Kansas City, Missouri

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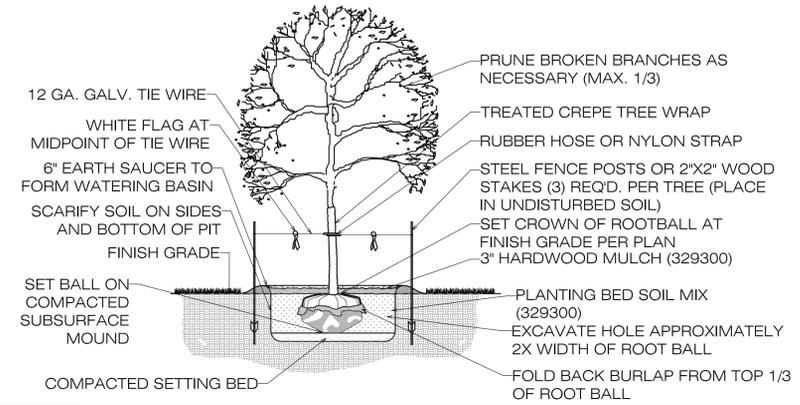
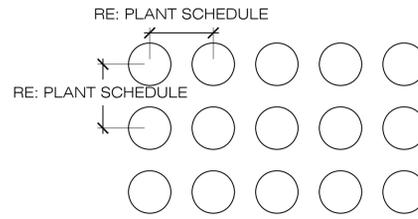
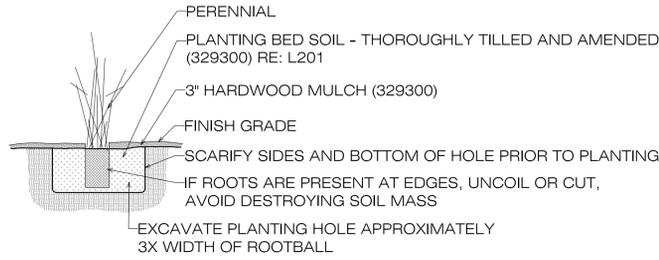
T. DUGGAN
PRINCIPAL IN CHARGE
L. KLEIN
PROJECT MANAGER

PROJECT TEAM MEMBERS

PERMIT SET 10/25/16
RELEASE & REVISION DATES

BID SET 01/10/18
ISSUE DATE

LANDSCAPE PLAN
L 201



K1 PLANTING DETAIL

N/A RE: TYP.

K6 PLANTING PATTERN DETAIL

N/A RE: TYP.

K11 TREE PLANTING DETAIL

N/A RE: TYP.

LANDSCAPE SPECS 329300 - PLANTS

- PART 1 - GENERAL
- 1.1 RELATED DOCUMENTS
- A. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND DIVISION 01 SPECIFICATION SECTIONS, APPLY TO THIS SECTION.
 - B. REFER TO KCMO APWA SECTION 02400 SEEDING AND SODDING FOR THIS SCOPE.
- 1.2 SUMMARY
- A. SECTION INCLUDES:
1. TREES.
 2. SHRUBS & GRASSES.
 3. PLANTS.
 4. TREE STABILIZATION.
 5. DECORATIVE STONE - TYPE 1
 6. DECORATIVE STONE - TYPE 2
- 1.3 DEFINITIONS
- A. BACKFILL: THE EARTH USED TO REPLACE OR THE ACT OF REPLACING EARTH IN AN EXCAVATION.
 - B. BALLED AND BURLAPPED STOCK: EXTERIOR PLANTS DUG WITH FIRM, NATURAL BALLS OF EARTH IN WHICH THEY ARE GROWN, WITH BALL SIZE NOT LESS THAN 3" CALIPER WRAPPED, TIED, RIGIDLY SUPPORTED, AND DRUM LACED AS RECOMMENDED BY ANSI Z60.1.
 - C. BALLED AND POTTED STOCK: EXTERIOR PLANTS DUG WITH FIRM, NATURAL BALLS OF EARTH IN WHICH THEY ARE GROWN AND PLACED, UNBROKEN, IN A CONTAINER. BALL SIZE IS NOT LESS THAN 36" DIAMETER AND DEPTH RECOMMENDED BY ANSI Z60.1 FOR TYPE AND SIZE OF EXTERIOR PLANT REQUIRED.
 - D. CONTAINER-GROWN STOCK: HEALTHY, VIGOROUS, WELL-ROOTED EXTERIOR PLANTS GROWN IN A CONTAINER WITH WELL-ESTABLISHED ROOT SYSTEM REACHING SIDES OF CONTAINER AND MAINTAINING A FIRM BALL WHEN REMOVED FROM CONTAINER. CONTAINER SHALL BE RIGID ENOUGH TO HOLD BALL SHAPE AND PROTECT ROOT MASS DURING SHIPPING AND BE SIZED ACCORDING TO ANSI Z60.1 FOR TYPE AND SIZE OF EXTERIOR PLANT REQUIRED.
 - E. FINISH GRADE: ELEVATION OF FINISHED SURFACE OF PLANTING SOIL.
 - F. MANUFACTURED TOPSOIL: SOIL PRODUCED OFF-SITE BY HOMOGENEOUSLY BLENDING MINERAL SOILS OR SAND WITH STABILIZED ORGANIC SOIL AMENDMENTS TO PRODUCE TOPSOIL OR PLANTING SOIL.
 - G. PESTICIDE: A SUBSTANCE OR MIXTURE INTENDED FOR PREVENTING, DESTROYING, REPELLING, OR MITIGATING A PEST. THIS INCLUDES INSECTICIDES, MITICIDES, HERBICIDES, FUNGICIDES, RODENTICIDES, AND MOLLUSCICIDES. IT ALSO INCLUDES SUBSTANCE OR MIXTURES INTENDED FOR USE AS A PLANT REGULATOR, DEFOLIANT, OR DESICCANT.
 - H. PESTS: LIVING ORGANISMS THAT OCCUR WHERE THEY ARE NOT DESIRED, OR THAT CAUSE DAMAGE TO PLANTS, ANIMALS, OR PEOPLE. THESE INCLUDE INSECTS, MITES, GRUBS, MOLLUSKS (SNAILS AND SLUGS), RODENTS (GOPHERS, MOLES AND MICE), UNWANTED PLANTS (WEEDS), FUNGI, BACTERIA, AND VIRUSES.
 - I. PLANTING AREAS: AREAS TO BE PLANTED.
 - J. PLANTING SOIL: NATIVE OR IMPORTED TOPSOIL, MANUFACTURED TOPSOIL, OR SURFACE SOIL MODIFIED TO BECOME TOPSOIL; MIXED WITH SOIL AMENDMENTS.
 - K. PLANT: PLANTS; PLANT MATERIAL: THESE TERMS REFER TO VEGETATION IN GENERAL, INCLUDING TREES, SHRUBS, VINES, GROUND COVERS, ORNAMENTAL GRASSES, BULBS, CORMS, TUBERS OR HERBACEOUS VEGETATION.
 - L. ROOT FLARE: ALSO CALLED "TRUNK FLARE," THE AREA AT THE BASE OF THE PLANTS STEM OR TRUNK WHERE THE STEM OR TRUNK BROADENS TO FORM ROOTS; THE AREA OF TRANSITION BETWEEN THE ROOT SYSTEM AND THE STEM OR TRUNK.
 - M. STEM GIRDLING ROOTS: ROOTS THAT ENCRICLE THE STEMS (TRUNKS) OF TREES BELOW THE SOIL SURFACE.
 - N. SUBGRADE: SURFACE OR ELEVATION OF SUBSOIL REMAINING AFTER COMPLETING EXCAVATION, OR TOP SURFACE OF A FILL OR BACKFILL, BEFORE PLACING PLANTING SOIL.
 - O. SUBSOIL: ALL SOIL BENEATH THE TOPSOIL LAYER OF THE SOIL PROFILE, AND TYPICALLY BY THE LACK OF ORGANIC MATTER AND SOIL ORGANISMS.
 - P. SURFACE SOIL: SOIL THAT IS PRESENT AT THE TOP LAYER OF THE EXISTING SOIL PROFILE AT THE PROJECT SITE. IN UNDISTURBED AREAS, THE SURFACE SOIL IS TYPICALLY TOPSOIL; BUT IN DISTURBED AREAS SUCH AS URBAN ENVIRONMENTS, THE SURFACE SOIL CAN BE SUBSOILS.
- 1.4 ACTION SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED.
 1. INCLUDE PRODUCT DATA FOR ALL PLANTING MATERIALS.
 - B. SAMPLES FOR VERIFICATION: FOR EACH OF THE FOLLOWING:
 1. 5 LB OF MINERAL MULCH FOR EACH TYPE OF STONE REQUIRED, IN LABELED PLASTIC BAGS.
- 1.5 INFORMATIONAL SUBMITTALS
- A. QUALIFICATION DATA: FOR QUALIFIED LANDSCAPE INSTALLER, INCLUDE LIST OF SIMILAR PROJECTS COMPLETED BY INSTALLER DEMONSTRATING INSTALLERS CAPABILITIES AND EXPERIENCE. INCLUDE PROJECT NAMES, ADDRESSES, AND YEAR COMPLETED, AND INCLUDE NAMES AND ADDRESSES OF OWNERS' CONTACT PERSONS.
 - B. PRODUCT CERTIFICATES: FOR EACH TYPE OF MANUFACTURED PRODUCT, FROM MANUFACTURER, AND COMPLYING WITH THE FOLLOWING:
 1. MANUFACTURERS CERTIFIED ANALYSIS OF STANDARD PRODUCTS.
 2. ANALYSIS OF OTHER MATERIALS BY A RECOGNIZED LABORATORY MADE ACCORDING TO METHODS ESTABLISHED BY THE ASSOCIATION OF OFFICIAL ANALYTICAL CHEMISTS, WHERE APPLICABLE.

- E. MATERIAL TEST REPORTS: FOR EXISTING NATIVE SURFACE TOPSOIL, EXISTING IN-PLACE SURFACE SOIL AND IMPORTED OR MANUFACTURED TOPSOIL.
 - F. MAINTENANCE INSTRUCTIONS: RECOMMENDED PROCEDURES TO BE ESTABLISHED BY OWNER FOR MAINTENANCE OF PLANTS DURING A CALENDAR YEAR. SUBMIT BEFORE START OF REQUIRED MAINTENANCE PERIODS.
 - G. PLANTING SCHEDULE: INDICATING ANTICIPATED PLANTING DATES FOR EXTERIOR PLANTS.
 - H. MINUTES OF PRE-INSTALLATION MEETING
- 1.6 CLOSEOUT SUBMITTALS
- A. WARRANTIES: SPECIAL WARRANTIES SPECIFIED IN THIS SECTION.
- 1.7 QUALITY ASSURANCE
- A. INSTALLER QUALIFICATIONS: A QUALIFIED LANDSCAPE INSTALLER WHOSE WORK HAS RESULTED IN SUCCESSFUL ESTABLISHMENT OF EXTERIOR PLANTS.
 1. INSTALLER'S FIELD SUPERVISION: REQUIRE INSTALLER TO MAINTAIN AN EXPERIENCED FULL-TIME SUPERVISOR ON PROJECT SITE WHEN PLANTING IS IN PROGRESS.
 - B. TOPSOIL ANALYSIS: FURNISH SOIL ANALYSIS BY A QUALIFIED SOIL-TESTING LABORATORY STATING PERCENTAGES OF ORGANIC MATTER; GRADATION OF SAND, SILT, AND CLAY CONTENT; CATION EXCHANGE CAPACITY DELETERIOUS MATERIAL; PH; AND MINERAL AND PLANT-NUTRIENT CONTENT OF TOPSOIL.
 1. REPORT SUITABILITY OF TOPSOIL FOR PLANT GROWTH.
 - a. STATE RECOMMENDED QUANTITIES OF NITROGEN, PHOSPHORUS, AND POTASH NUTRIENTS AND SOIL AMENDMENTS TO BE ADDED TO PRODUCE SATISFACTORY TOPSOIL.
 - b. STATE RECOMMENDED PLANTING SOIL MIX WITH THE RECOMMENDED TOPSOIL, SOIL AMENDMENTS AND FERTILIZERS COMPOSITION.
 - D. PROVIDE QUALITY, SIZE, GENUS, SPECIES, AND VARIETY OF EXTERIOR PLANTS INDICATED, COMPLYING WITH APPLICABLE REQUIREMENTS IN ANSI Z60.1, "AMERICAN STANDARD FOR NURSERY STOCK."
 1. SELECTION OF EXTERIOR PLANTS PURCHASED UNDER ALLOWANCES WILL BE MADE BY ARCHITECT, WHO WILL TAG PLANTS AT THEIR PLACE OF GROWTH BEFORE THEY ARE PREPARED FOR TRANSPLANTING.
 - E. TREE AND SHRUB MEASUREMENTS: MEASURE ACCORDING TO ANSI Z60.1 WITH BRANCHES AND TRUNKS OR CANES IN THEIR NORMAL POSITION. DO NOT PRUNE TO OBTAIN REQUIRED SIZES. TAKE CALIPER MEASUREMENTS 6 INCHES ABOVE THE GROUND FOR TREES UP TO 4-INCH CALIPER SIZE, AND 12 INCHES ABOVE THE GROUND FOR LARGER SIZES. MEASURE MAIN BODY OF TREE OR SHRUB FOR HEIGHT AND SPREAD; DO NOT MEASURE BRANCHES OR ROOTS TIP-TO-TIP.
 - F. OBSERVATION: LANDSCAPE ARCHITECT MAY OBSERVE TREES AND SHRUBS EITHER AT PLACE OF GROWTH OR AT SITE BEFORE PLANTING FOR COMPLIANCE WITH REQUIREMENTS FOR GENUS, SPECIES, VARIETY, SIZE, AND QUALITY. LANDSCAPE ARCHITECT RETAINS RIGHT TO OBSERVE TREES AND SHRUBS FURTHER FOR SIZE AND CONDITION OF BALLS AND ROOT SYSTEMS, INSECTS, INJURIES, AND LATENT DEFECTS AND TO REJECT UNSATISFACTORY OR DEFECTIVE MATERIAL AT ANY TIME DURING PROGRESS OF WORK. REMOVE REJECTED TREES OR SHRUBS IMMEDIATELY FROM PROJECT SITE.
 1. NOTIFY LANDSCAPE ARCHITECT OF SOURCES OF PLANTING MATERIALS SEVEN DAYS IN ADVANCE OF DELIVERY TO SITE.
 - G. PREINSTALLATION CONFERENCE: CONDUCT CONFERENCE AT THE PROJECT SITE.
- 1.8 DELIVERY, STORAGE, AND HANDLING
- A. DELIVER EXTERIOR PLANTS FRESHLY DUG.
 1. IMMEDIATELY AFTER DIGGING UP BARE-ROOT STOCK, PACK ROOT SYSTEM IN WET STRAW, HAY, OR OTHER SUITABLE MATERIAL TO KEEP ROOT SYSTEM MOIST UNTIL PLANTING.
 - B. DO NOT PRUNE TREES AND SHRUBS BEFORE DELIVERY EXCEPT AS APPROVED BY LANDSCAPE ARCHITECT. PROTECT BARK, BRANCHES, AND ROOT SYSTEMS FROM SUN SCALD, DRYING, SWEATING, WHIPPING, AND OTHER HANDLING AND TYING DAMAGE. DO NOT BEND OR BIND-TIE TREES OR SHRUBS IN SUCH A MANNER AS TO DESTROY THEIR NATURAL SHAPE. PROVIDE PROTECTIVE COVERING OF EXTERIOR PLANTS DURING DELIVERY. DO NOT DROP EXTERIOR PLANTS DURING DELIVERY AND HANDLING.
 - C. HANDLE PLANTING STOCK BY ROOT BALL.
 - D. DELIVER EXTERIOR PLANTS AFTER PREPARATIONS FOR PLANTING HAVE BEEN COMPLETED AND INSTALL IMMEDIATELY. IF PLANTING IS DELAYED MORE THAN SIX HOURS AFTER DELIVERY, SET EXTERIOR PLANTS AND TREES IN SHADE, PROTECT FROM WEATHER AND MECHANICAL DAMAGE, AND KEEP ROOTS MOIST.
 1. SET BALLED STOCK ON GROUND AND COVER BALL WITH SOIL, PEAT MOSS, SAWDUST, OR OTHER ACCEPTABLE MATERIAL.
 2. DO NOT REMOVE CONTAINER-GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING.
 3. WATER ROOT SYSTEMS OF EXTERIOR PLANTS STORED ON-SITE WITH A FINE-MIST SPRAY. WATER AS OFTEN AS NECESSARY TO MAINTAIN ROOT SYSTEMS IN A MOIST CONDITION.
- 1.9 PROJECT CONDITIONS
- A. PLANTING RESTRICTIONS: PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH MAINTENANCE PERIODS TO PROVIDE REQUIRED MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION.
 1. SPRING PLANTING: MARCH 15 - JUNE 15
 2. FALL PLANTING: SEPTEMBER 15 - NOVEMBER 15
 - B. WEATHER LIMITATIONS: PROCEED WITH PLANTING ONLY WHEN EXISTING AND FORECASTED WEATHER CONDITIONS PERMIT PLANTING TO BE PERFORMED ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS AND WARRANTY REQUIREMENTS.
 - C. COORDINATION WITH LAWNS: PLANT TREES AND SHRUBS AFTER FINISH GRADES ARE ESTABLISHED AND BEFORE PLANTING LAWNS UNLESS OTHERWISE ACCEPTABLE TO LANDSCAPE ARCHITECT.
 1. WHEN PLANTING TREES AND SHRUBS AFTER LAWNS, PROTECT LAWN AREAS AND PROMPTLY REPAIR DAMAGE CAUSED BY PLANTING OPERATIONS.

- 1.10 WARRANTY
- SPECIAL WARRANTY: INSTALLER'S STANDARD FORM IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE PLANTINGS AND ACCESSORIES THAT FAIL IN MATERIALS, WORKMANSHIP, OR GROWTH WITHIN SPECIFIED WARRANTY PERIOD.
1. FAILURES INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - a. DEATH AND UNSATISFACTORY GROWTH, EXCEPT FOR DEFECTS RESULTING FROM LACK OF ADEQUATE MAINTENANCE, NEGLIGENCE, ABUSE BY OWNER, OR INCIDENTS THAT ARE BEYOND CONTRACTOR'S CONTROL.
 - b. STRUCTURAL FAILURES INCLUDING PLANTINGS FALLING OR BLOWING OVER.
 - c. FAULTY OPERATION OF TREE STABILIZATION
 - d. DETERIORATION OF METALS, METAL FINISHES, AND OTHER MATERIALS BEYOND NORMAL WEATHERING.
 2. WARRANTY PERIODS FROM DATE OF SUBSTANTIAL COMPLETION:
 - a. TREES AND SHRUBS: ONE YEAR.
 - b. GROUND COVER AND PLANTS: ONE YEAR.
 - c. SOD: ONE YEAR.
 3. INCLUDE THE FOLLOWING REMEDIAL ACTIONS AS A MINIMUM:
 - a. REMOVE DEAD EXTERIOR PLANTS IMMEDIATELY. REPLACE IMMEDIATELY UNLESS REQUIRED TO PLANT IN THE SUCCEEDING PLANTING SEASON.
 - b. REPLACE EXTERIOR PLANTS THAT ARE MORE THAN 25 PERCENT DEAD OR IN AN UNHEALTHY CONDITION AT END OF WARRANTY PERIOD.
 - c. A LIMIT OF ONE REPLACEMENT OF EACH EXTERIOR PLANT WILL BE REQUIRED EXCEPT FOR LOSSES OR REPLACEMENTS DUE TO FAILURE TO COMPLY WITH REQUIREMENTS.
 - d. PROVIDE EXTENDED WARRANTY FOR REPLACED PLANT MATERIALS; WARRANTY PERIOD EQUAL TO ORIGINAL WARRANTY PERIOD.
- 1.11 MAINTENANCE SERVICE
- A. INITIAL MAINTENANCE SERVICE FOR TREES AND SHRUBS: PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLER. MAINTAIN AS REQUIRED IN PART 3. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL PLANTINGS ARE ACCEPTABLY HEALTHY AND WELL ESTABLISHED, BUT FOR NOT LESS THAN MAINTENANCE PERIOD BELOW.
 1. MAINTENANCE PERIOD: THREE MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
 - B. INITIAL MAINTENANCE SERVICE FOR GROUND COVER AND PLANTS: PROVIDE FULL MAINTENANCE BY SKILLED EMPLOYEES OF LANDSCAPE INSTALLER. MAINTAIN AS REQUIRED IN PART 3. BEGIN MAINTENANCE IMMEDIATELY AFTER EACH AREA IS PLANTED AND CONTINUE UNTIL PLANTINGS ARE ACCEPTABLY HEALTHY AND WELL ESTABLISHED, BUT FOR NOT LESS THAN MAINTENANCE PERIOD BELOW.
 1. MAINTENANCE PERIOD: THREE MONTHS FROM DATE OF SUBSTANTIAL COMPLETION.
- PART 2 - PRODUCTS
- 2.1 TREE AND SHRUB MATERIAL
- A. GENERAL: FURNISH NURSERY-GROWN TREES AND SHRUBS COMPLYING WITH ANSI Z60.1, WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.
 - B. PROVIDE TREES AND SHRUBS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 FOR TYPES AND FORM OF TREES AND SHRUBS REQUIRED. TREES AND SHRUBS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO ARCHITECT, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.
 - C. ROOT-BALL DEPTH: FURNISH TREES AND SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO ANSI Z60.1. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.
 - D. LABEL EACH TREE AND SHRUB WITH SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.
 - E. LABEL AT LEAST ONE TREE AND ONE SHRUB OF EACH VARIETY AND CALIPER WITH A SECURELY ATTACHED, WATERPROOF TAG BEARING LEGIBLE DESIGNATION OF BOTANICAL AND COMMON NAME.
 - F. IF FORMAL ARRANGEMENTS OR CONSECUTIVE ORDER OF TREES OR SHRUBS IS SHOWN, SELECT STOCK FOR UNIFORM HEIGHT AND SPREAD, AND NUMBER LABEL TO ASSURE SYMMETRY IN PLANTING.
- 2.2 SHADE AND FLOWERING TREES
- A. SHADE TREES: SINGLE-STEM TREES WITH STRAIGHT TRUNK, WELL-BALANCED CROWN, AND INTACT LEADER, OF HEIGHT AND CALIPER INDICATED, COMPLYING WITH ANSI Z60.1 FOR TYPE OF TREES REQUIRED.
 1. PROVIDE BALLED AND BURLAPPED TREES.
 2. BRANCHING HEIGHT: ONE-THIRD TO ONE-HALF OF TREE HEIGHT.
 - B. SMALL UPRIGHT TREES: BRANCHED OR PRUNED NATURALLY ACCORDING TO SPECIES AND TYPE, WITH RELATIONSHIP OF CALIPER, HEIGHT, AND BRANCHING ACCORDING TO ANSI Z60.1; STEM FORM AS FOLLOWS:
 3. STEM FORM: SINGLE OR MULTI STEM REQUIREMENTS ARE SPECIFIED ON LANDSCAPE PLAN.
 4. PROVIDE BALLED AND BURLAPPED TREES.
- 2.3 PLANTS
- A. PROVIDE HEALTHY, DISEASE-FREE PLANTS OF SPECIES AND VARIETY SHOWN OR LISTED, WITH WELL-ESTABLISHED ROOT SYSTEMS REACHING TO SIDES OF THE CONTAINER TO MAINTAIN A FIRM BALL, BUT NOT WITH EXCESSIVE ROOT GROWTH ENCRICLING THE CONTAINER. PROVIDE ONLY PLANTS THAT ARE ACCLIMATED TO OUTDOOR CONDITIONS BEFORE DELIVERY
 - B. PERENNIALS: PROVIDE HEALTHY, FIELD-GROWN PLANTS FROM A COMMERCIAL NURSERY, OF SPECIES AND VARIETY SHOWN OR LISTED, COMPLYING WITH REQUIREMENTS IN ANSI Z60.1.

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Berkley Plaza Landscape

Berkley Riverfront
Kansas City, Missouri

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T. DUGGAN
PRINCIPAL IN CHARGE
L. KLEIN
PROJECT MANAGER

PROJECT TEAM MEMBERS

PERMIT SET 10/25/16
RELEASE & REVISION DATES

BID SET 01/10/18
ISSUE DATE

LANDSCAPE DETAILS
L 204

2.4 TOPSOIL

- A. TOPSOIL: ASTM D 5268, PH RANGE OF 5.5 TO 7, A MINIMUM OF 6 PERCENT ORGANIC MATERIAL CONTENT; FREE OF STONES 1 INCH OR LARGER IN ANY DIMENSION AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
 1. TOPSOIL SOURCE: REUSE SURFACE SOIL STOCKPILED ON-SITE. VERIFY SUITABILITY OF STOCKPILED SURFACE SOIL TO PRODUCE TOPSOIL. CLEAN SURFACE SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
 - a. SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM BOGS OR MARSHES.
 2. TOPSOIL SOURCE: IMPORT TOPSOIL OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM BOGS OR MARSHES AND IS SEED FREE.
 3. TOPSOIL SOURCE: AMEND EXISTING IN-PLACE SURFACE SOIL TO PRODUCE TOPSOIL. VERIFY SUITABILITY OF SURFACE SOIL TO PRODUCE TOPSOIL. CLEAN SURFACE SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.
 - a. SURFACE SOIL MAY BE SUPPLEMENTED WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES. OBTAIN TOPSOIL DISPLACED FROM NATURALLY WELL-DRAINED CONSTRUCTION OR MINING SITES WHERE TOPSOIL OCCURS AT LEAST 4 INCHES DEEP; DO NOT OBTAIN FROM AGRICULTURAL LAND, BOGS OR MARSHES.

2.5 INORGANIC SOIL AMENDMENTS

- A. LIME: ASTM C 602, AGRICULTURAL LIMESTONE CONTAINING A MINIMUM OF 80 PERCENT CALCIUM CARBONATE EQUIVALENT AND AS FOLLOWS:
 1. CLASS: T, WITH A MINIMUM OF 99 PERCENT PASSING THROUGH NO. 8 SIEVE AND A MINIMUM OF 75 PERCENT PASSING THROUGH NO. 60 SIEVE.
 2. CLASS: O, WITH A MINIMUM OF 95 PERCENT PASSING THROUGH NO. 8 SIEVE AND A MINIMUM OF 55 PERCENT PASSING THROUGH NO. 60 SIEVE.
 3. PROVIDE LIME IN FORM OF DOLOMITIC LIMESTONE.
- B. SULFUR: GRANULAR, BIODEGRADABLE, CONTAINING A MINIMUM OF 90 PERCENT SULFUR, WITH A MINIMUM OF 99 PERCENT PASSING THROUGH NO. 6 SIEVE AND A MAXIMUM OF 10 PERCENT PASSING THROUGH NO. 40 SIEVE.
- C. IRON SULFATE: GRANULATED FERROUS SULFATE CONTAINING A MINIMUM OF 20 PERCENT IRON AND 10 PERCENT SULFUR.
- D. ALUMINUM SULFATE: COMMERCIAL GRADE, UNADULTERATED.
- E. PERLITE: HORTICULTURAL PERLITE, SOIL AMENDMENT GRADE.
- F. AGRICULTURAL GYPSUM: FINELY GROUND, CONTAINING A MINIMUM OF 90 PERCENT CALCIUM SULFATE.
- G. CLEAN GYPSUM BOARD: GRIND SCRAPS OF CLEAN UNPAINTED GYPSUM BOARD USING SMALL MOBILE CHIPPER OR HAMMER MILL TO A FINE PARTICLE SIZE (70% PASSING A 100 MESH SCREEN). SCREEN OUT PAPER AFTER GRINDING.
 - a. COMPLY WITH REQUIREMENTS IN DIVISION 32 SECTION "PLANTS" FOR USE OF CLEAN GROUND GYPSUM BOARD AS INORGANIC SOIL AMENDMENT.
- H. SAND: CLEAN, WASHED, NATURAL OR MANUFACTURED, FREE OF TOXIC MATERIALS.
- I. DIATOMACEOUS EARTH: CALCINED, DIATOMACEOUS EARTH, 90 PERCENT SILICA, WITH APPROXIMATELY 140 PERCENT WATER ABSORPTION CAPACITY BY WEIGHT.
- J. ZEOLITES: MINERAL CLINOPTILOLITE WITH AT LEAST 60 PERCENT WATER ABSORPTION BY WEIGHT.

2.6 ORGANIC SOIL AMENDMENTS

- A. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF (2 TO 5) DECISEMENS; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS; AND AS FOLLOWS:
 1. ORGANIC MATTER CONTENT: 50 PERCENT OF DRY WEIGHT.
 2. FEEDSTOCK: AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS; BIOSOLIDS; YARD TRIMMINGS; OR SOURCE-SEPARATED OR COMPOSTABLE MIXED SOLID WASTE.
- B. PEAT: SPHAGNUM PEAT MOSS, PARTIALLY DECOMPOSED, FINELY DIVIDED OR GRANULAR TEXTURE, WITH A PH RANGE OF 3.4 TO 4.8.
- C. PEAT: FINELY DIVIDED OR GRANULAR TEXTURE, WITH A PH RANGE OF 6 TO 7.5, CONTAINING PARTIALLY DECOMPOSED MOSS PEAT, NATIVE PEAT, OR REED-SEED PEAT AND HAVING A WATER-ABSORBING CAPACITY OF 1100 TO 2000 PERCENT.
- D. WOOD DERIVATIVES: DECOMPOSED, NITROGEN-TREATED SAWDUST, GROUND BARK, OR WOOD WASTE; OF UNIFORM TEXTURE, FREE OF CHIPS, STONES, STICKS, SOIL, OR TOXIC MATERIALS.
 1. IN LIEU OF DECOMPOSED WOOD DERIVATIVES, MIX PARTIALLY DECOMPOSED WOOD DERIVATIVES WITH AMMONIUM NITRATE AT A MINIMUM RATE OF (0.15 LB/CU. FT.) OF LOOSE SAWDUST OR GROUND BARK, OR WITH AMMONIUM SULFATE AT A MINIMUM RATE OF (0.25 LB/CU. FT.) OF LOOSE SAWDUST OR GROUND BARK.
- E. MANURE: WELL-ROTTED, UNLEACHED, STABLE OR CATTLE MANURE CONTAINING NOT MORE THAN 25 PERCENT BY VOLUME OF STRAW, SAWDUST, OR OTHER BEDDING MATERIALS; FREE OF TOXIC SUBSTANCES, STONES, STICKS, SOIL, WEED SEED, AND MATERIAL HARMFUL TO PLANT GROWTH.

2.7 FERTILIZER

- A. BONEMEAL: COMMERCIAL, RAW OR STEAMED, FINELY GROUND; A MINIMUM OF ONE TO FOUR PERCENT NITROGEN AND 10 TO 20 PERCENT PHOSPHORIC ACID.
- B. SUPERPHOSPHATE: COMMERCIAL, PHOSPHATE MIXTURE, SOLUBLE; A MINIMUM OF 20 PERCENT AVAILABLE PHOSPHORIC ACID.
- C. COMMERCIAL FERTILIZER: COMMERCIAL-GRADE COMPLETE FERTILIZER OF NEUTRAL CHARACTER, CONSISTING OF FAST- AND SLOW-RELEASE NITROGEN, 50 PERCENT DERIVED FROM NATURAL ORGANIC SOURCES OF UREA FORMALDEHYDE, PHOSPHOROUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:
 1. COMPOSITION: 1 LB/1000 SQ. FT. OF ACTUAL NITROGEN, 4 PERCENT PHOSPHOROUS, AND 2 PERCENT POTASSIUM, BY WEIGHT.
 2. COMPOSITION: NITROGEN, PHOSPHOROUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A QUALIFIED SOIL-TESTING AGENCY.
- D. SLOW-RELEASE FERTILIZER: GRANULAR OR PELLETED FERTILIZER CONSISTING OF 50 PERCENT WATER-INSOLUBLE NITROGEN, PHOSPHORUS, AND POTASSIUM IN THE FOLLOWING COMPOSITION:
 1. COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 10 PERCENT POTASSIUM, BY WEIGHT.
 2. COMPOSITION: NITROGEN, PHOSPHOROUS, AND POTASSIUM IN AMOUNTS RECOMMENDED IN SOIL REPORTS FROM A QUALIFIED SOIL-TESTING AGENCY.

2.8 MULCHES

- A. ORGANIC MULCH: FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS, CONSISTING OF ONE OF THE FOLLOWING:
 1. TYPE: DOUBLE SHREDDED, DARK BROWN HARDWOOD MULCH IS TO BE SPREAD WITH NO LESS THAN 3" COVER IN ALL PLANTING BEDS.
- B. COMPOST MULCH: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 1-INCH SIEVE; SOLUBLE SALT CONTENT OF (2 TO 5) DECISEMENS; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS; AND AS FOLLOWS:
 1. ORGANIC MATTER CONTENT: 50 TO 60 PERCENT OF DRY WEIGHT.
 2. FEEDSTOCK: AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS; BIOSOLIDS; YARD TRIMMINGS; OR SOURCE-SEPARATED OR COMPOSTABLE MIXED SOLID WASTE.

2.9 TREE STABILIZATION MATERIALS

- A. STAKES AND GUYS:
 1. UPRIGHT AND GUY STAKES: "T" BAR FENCE POST, 8' LONG, PAINTED DARK GREEN WITH THE TOP 6" PAINTED WHITE UNLESS OTHERWISE INDICATED ON DRAWINGS
 2. FLEXIBLE TIES: ELASTIC BANDS OR STRAPS OF LENGTH REQUIRED TO REACH STAKES OR TURNBUCKLES.
 3. GUYS AND TIE WIRES: ASTM A 641/A 641M, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.108 INCH IN DIAMETER.
 4. CHAFING GUARDS: TREE TIE SYSTEMS SHALL BE EASILY ADJUSTABLE, STRONG IN ALL WEATHER, AND EASILY ATTACHED AND REMOVED. HOSE AND WIRE ARE NOT ACCEPTABLE FOR STAKED TREES. TREE TIE SYSTEMS SHALL BE THE FOLLOWING, OR APPROVED EQUAL:
 - a. "GINCH TIES", J. LICHTENTHALER
P.O. BOX 938
CERRITOS, CA 90701
 - b. "ADJ-A-TYPE": HEAVYWEIGHT ONLY, A PLASTIC CHAIN TWIST TIE
"PLASTIC BINDER TIE", TIE WITH TAPERED BEADS THAT SNAP LOCK
A.M. LEONARD AND SONS
PIQUA, OHIO 43356
 5. GUY CABLES: 5-STRAND, 3/16-INCH- DIAMETER, GALVANIZED-STEEL CABLE, WITH ZINC-COATED TURNBUCKLES, A MINIMUM OF 3 INCHES LONG, WITH TWO 3/8-INCH GALVANIZED EYEBOLTS.
 6. FLAGS: STANDARD SURVEYORS PLASTIC FLAGGING TAPE, WHITE, 6 INCHES LONG.

2.10 MISCELLANEOUS PRODUCTS

- A. ANTIDESICCANT: WATER-INSOLUBLE EMULSION, PERMEABLE MOISTURE RETARDER, FILM FORMING, FOR TREES AND SHRUBS. DELIVER IN ORIGINAL, SEALED, AND FULLY LABELED CONTAINERS AND MIX ACCORDING TO MANUFACTURERS WRITTEN INSTRUCTIONS.
- B. TRUNK-WRAP TAPE: TWO LAYERS OF CRINKLED PAPER CEMENTED TOGETHER WITH BITUMINOUS MATERIAL, 4-INCH- WIDE MINIMUM, WITH STRETCH FACTOR OF 53 PERCENT.
- C. PLANTER DRAINAGE GRAVEL: WASHED, SOUND CRUSHED STONE OR GRAVEL COMPLYING WITH ASTM D 448 FOR SIZE NO. 8.
- D. PLANTER FILTER FABRIC: WOVEN OR NONWOVEN GEOTEXTILE MANUFACTURED FOR SEPARATION APPLICATIONS AND MADE OF POLYPROPYLENE, POLYOLEFIN, OR POLYESTER FIBERS OR COMBINATION OF THEM.

2.11 PLANTING SOILS

- A. PLANTING BED SOIL & TREE PITS: EXISTING, IN-PLACE SURFACE SOIL. VERIFY SUITABILITY OF EXISTING SURFACE SOIL TO PRODUCE VIABLE PLANTING SOIL. REMOVE STONES, ROOTS, PLANTS, SOD, CLODS, CLAY LUMPS, POCKETS OF COARSE SAND, CONCRETE SLURRY, CONCRETE LAYERS OR CHUNKS, CEMENT, PLASTER, BUILDING DEBRIS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH. MIX SURFACE SOIL WITH THE FOLLOWING SOIL AMENDMENTS AND FERTILIZERS IN THE FOLLOWING QUANTITIES TO PRODUCE PLANTING SOIL.

- 1. PERCENTAGE MIXTURE BY VOLUME:
 - 1.1. 70% ON-SITE TOPSOIL
 - 1.2. 30% COMPOST
- 2. REMOVE ROCKS LARGER THAN 2 INCHES IN DIAMETER FOUND DURING MIXING OF SOIL.

2.12 DECORATIVE STONE

- A. STONE TYPE 1: 4-8" COBBLESTONE, BLACK-GRAY IN COLOR, SMOOTH AND ROUNDED, DEPTH 18".

2.13 LANDSCAPE BOULDERS

- A. PROVIDE WEATHERED NATURAL CARBONATE STONE IN THICKNESS AND GENERAL DIMENSIONS AS SHOWN ON DRAWINGS AND BELOW. PROVIDE STONE BOULDERS TO MEET THE FOLLOWING CHARACTERISTICS:
 1. STONE TYPE: LIMESTONE.
 2. COLOR: TAN.
 3. SIZE: APPROXIMATELY 24 INCHES LONG X 24 INCHES WIDE X 24 INCHES THICK.
 4. QUARRIED LIMESTONE, NATURALLY BROKE (NO CUTTING).
 5. SHAPE: RECTANGULAR BLOCKS WITH RELATIVELY SQUARE CORNERS AND EDGES
 6. FINISH: WEATHERED NATURAL CLEFT OR SPLIT EDGES, FREE OF ROUGH OR JAGGED EDGES.
 7. STRENGTH CHARACTERISTICS:
 - 7.1. COMPRESSIVE STRENGTH ASTM C 170, 4,000 PSI
 - 7.2. MODULUS OF RUPTURE: ASTM C 99, 700 PSI MINIMUM.
 - 7.3. ABSORPTION: ASTM C 97 7-12% MAXIMUM.
 - 7.4. ABRASIVE HARDNESS: ASTM C 241, 10 MINIMUM

B. ACCEPTABLE QUARRIES: PROVIDE PRODUCTS BY ONE OF THE FOLLOWING OR BY APPROVED EQUAL:

- 1. WHEELER CONSTRUCTION, INC. GREG WHEELER, 913-321-0541
- 2. HIGGINS STONE, SCOTT, 785-256-6583
- 3. KEITH SCOTT AND COMPANY, 816-224-8850
- 4. HOUSE OF ROCKS, 913-432-6990
- 5. STURGIS MATERIALS, 913-371-7757

PART 3 - EXECUTION

3.1 EXAMINATION

- A. EXAMINE AREAS TO RECEIVE EXTERIOR PLANTS FOR COMPLIANCE WITH REQUIREMENTS AND CONDITIONS AFFECTING INSTALLATION AND PERFORMANCE.
- B. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED.

3.2 PREPARATION

- A. TEST TOP SOIL, AS SPECIFIED. THESE TESTS WILL COINCIDE WITH THE SOIL TESTS TAKEN UNDER SECTION 02920
- B. PROTECT STRUCTURES, UTILITIES, SIDEWALKS, PAVEMENTS, AND OTHER FACILITIES, AND LAWNS AND EXISTING EXTERIOR PLANTS FROM DAMAGE CAUSED BY PLANTING OPERATIONS.
- C. PROVIDE EROSION-CONTROL MEASURES TO PREVENT EROSION OR DISPLACEMENT OF SOILS AND DISCHARGE OF SOIL-BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.
- D. LAY OUT INDIVIDUAL TREE AND SHRUB LOCATIONS AND AREAS FOR MULTIPLE PLANTINGS. STAKE LOCATIONS, OUTLINE AREAS, ADJUST LOCATIONS WHEN REQUESTED, AND OBTAIN LANDSCAPE ARCHITECT'S ACCEPTANCE OF LAYOUT BEFORE PLANTING. MAKE MINOR ADJUSTMENTS AS REQUIRED.
- E. LAY OUT EXTERIOR PLANTS AT LOCATIONS DIRECTED BY LANDSCAPE ARCHITECT. STAKE LOCATIONS OF INDIVIDUAL TREES AND SHRUBS AND OUTLINE AREAS FOR MULTIPLE PLANTINGS.
- F. TRUNK WRAPPING: INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION; TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING. WRAP TREES OF 2-INCH CALIPER AND LARGER WITH TRUNK-WRAP TAPE. START AT BASE OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP, EXPOSING HALF THE WIDTH, AND SECURELY ATTACH WITHOUT CAUSING GIRDLING.
- G. APPLY ANTIDESICCANT TO TREES AND SHRUBS USING POWER SPRAY TO PROVIDE AN ADEQUATE FILM OVER TRUNKS (BEFORE WRAPPING), BRANCHES, STEMS, TWIGS, AND FOLIAGE TO PROTECT DURING DIGGING, HANDLING, AND TRANSPORTATION.
 1. IF DECIDUOUS TREES OR SHRUBS ARE MOVED IN FULL LEAF, SPRAY WITH ANTIDESICCANT AT NURSERY BEFORE MOVING AND AGAIN TWO WEEKS AFTER PLANTING.
- H. WRAP TREES AND SHRUBS WITH BURLAP FABRIC OVER TRUNKS, BRANCHES, STEMS, TWIGS, AND FOLIAGE TO PROTECT FROM WIND AND OTHER DAMAGE DURING DIGGING, HANDLING, AND TRANSPORTATION.

3.3 PLANTING BED ESTABLISHMENT

- A. LOOSEN SUBGRADE OF PLANTING BEDS TO A MINIMUM DEPTH OF 9 INCHES. REMOVE STONES LARGER THAN 2 INCHES IN ANY DIMENSION AND STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND LEGALLY DISPOSE OF THEM OFF OWNERS PROPERTY.
 1. APPLY FERTILIZER BASED ON SOIL REPORT DIRECTLY TO SUBGRADE BEFORE LOOSENING.
 2. SPREAD TOPSOIL, APPLY SOIL AMENDMENTS AND FERTILIZER ON SURFACE, AND THOROUGHLY BLEND PLANTING SOIL MIX.
- B. DELAY MIXING FERTILIZER WITH PLANTING SOIL IF PLANTING WILL NOT PROCEED WITHIN A FEW DAYS.
- C. MIX LIME WITH DRY SOIL BEFORE MIXING FERTILIZER.
- D. SPREAD 3-4 INCHES OF COMPOST OVER LOOSENED SUBGRADE. MIX THOROUGHLY INTO TOP 6-9 INCHES OF SUBGRADE. COMPACT SOIL TO 85% PROCTOR. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
- E. REMOVE EXCESS SPOILS AND DEBRIS AS NEEDED.
- F. FINISH GRADING: GRADE PLANTING BEDS TO A SMOOTH, UNIFORM SURFACE PLANE WITH LOOSE, UNIFORMLY FINE TEXTURE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
- G. BEFORE PLANTING, RESTORE PLANTING BEDS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.

3.4 EXCAVATION FOR TREES AND SHRUBS

- A. PITS AND TRENCHES: EXCAVATE CIRCULAR PITS WITH SIDES SLOPED INWARD. TRIM BASE LEAVING CENTER AREA RAISED SLIGHTLY TO SUPPORT ROOT BALL AND ASSIST IN DRAINAGE. DO NOT FURTHER DISTURB BASE. SCARIFY SIDES OF PLANT PIT SHEARED OR SMOOTHED DURING EXCAVATION.
 1. EXCAVATE APPROXIMATELY THREE TIMES AS WIDE AS BALL DIAMETER FOR BALLED AND BURLAPPED OR BALLED AND POTTED OR CONTAINER-GROWN STOCK.
 2. EXCAVATE AT LEAST 12 INCHES WIDER THAN ROOT SPREAD AND DEEP ENOUGH TO ACCOMMODATE VERTICAL ROOTS FOR BARE-ROOT STOCK.
 3. IF DRAIN TILE IS SHOWN OR REQUIRED UNDER PLANTED AREAS, EXCAVATE TO TOP OF POROUS BACKFILL OVER TILE.
- B. SUBSOIL REMOVED FROM EXCAVATIONS MAY NOT BE USED AS BACKFILL.
- C. OBSTRUCTIONS: NOTIFY LANDSCAPE ARCHITECT IF UNEXPECTED ROCK OR OBSTRUCTIONS DETRIMENTAL TO TREES OR SHRUBS ARE ENCOUNTERED IN EXCAVATIONS.
 1. HARDPAN LAYER: DRILL 6-INCH- DIAMETER HOLES, 24 INCHES APART, INTO FREE-DRAINING STRATA OR TO A DEPTH OF 10 FEET, WHICHEVER IS LESS, AND BACKFILL WITH FREE-DRAINING MATERIAL.
- D. DRAINAGE: NOTIFY ARCHITECT IF SUBSOIL CONDITIONS EVIDENCE UNEXPECTED WATER SEEPAGE OR RETENTION IN TREE OR SHRUB PITS.
- E. FILL EXCAVATIONS WITH WATER AND ALLOW TO PERCOLATE AWAY BEFORE POSITIONING TREES AND SHRUBS.

3.5 TREE AND SHRUB PLANTING

- A. BEFORE PLANTING, VERIFY THAT ROOT FLARE IS VISIBLE AT TOP OF ROOT BALL ACCORDING TO ANSI Z60.1.
- B. SET BALLED AND BURLAPPED STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ROOT BALL FLUSH WITH ADJACENT FINISH GRADES.
 1. REMOVE BURLAP AND WIRE BASKETS FROM TOPS OF ROOT BALLS AND PARTIALLY FROM SIDES, BUT DO NOT REMOVE FROM UNDER ROOT BALLS. REMOVE PALLETS, IF ANY, BEFORE SETTING. DO NOT USE PLANTING STOCK IF ROOT BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
 2. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.
- C. SET BALLED AND POTTED OR CONTAINER-GROWN STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ROOT BALL FLUSH WITH ADJACENT FINISH GRADES.
 1. CAREFULLY REMOVE ROOT BALL FROM CONTAINER WITHOUT DAMAGING ROOT BALL OR PLANT.
 2. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.
- D. SET FABRIC BAG-GROWN STOCK PLUMB AND IN CENTER OF PIT OR TRENCH WITH TOP OF ROOT BALL FLUSH WITH ADJACENT FINISH GRADES.
 1. CAREFULLY REMOVE ROOT BALL FROM FABRIC BAG WITHOUT DAMAGING ROOT BALL OR PLANT. DO NOT USE PLANTING STOCK IF ROOT BALL IS CRACKED OR BROKEN BEFORE OR DURING PLANTING OPERATION.
 2. PLACE PLANTING SOIL MIX AROUND ROOT BALL IN LAYERS, TAMPING TO SETTLE MIX AND ELIMINATE VOIDS AND AIR POCKETS. WHEN PIT IS APPROXIMATELY ONE-HALF BACKFILLED, WATER THOROUGHLY BEFORE PLACING REMAINDER OF BACKFILL. REPEAT WATERING UNTIL NO MORE WATER IS ABSORBED. WATER AGAIN AFTER PLACING AND TAMPING FINAL LAYER OF PLANTING SOIL MIX.
- E. SET AND SUPPORT BARE-ROOT STOCK IN CENTER OF PIT OR TRENCH WITH TRUNK FLARE 2 INCHES ABOVE ADJACENT FINISH GRADE. SPREAD ROOTS WITHOUT TANGLING OR TURNING TOWARD SURFACE, AND CAREFULLY WORK BACKFILL AROUND ROOTS BY HAND. PUDDLE WITH WATER UNTIL BACKFILL LAYERS ARE COMPLETELY SATURATED. PLUMB BEFORE BACKFILLING, AND MAINTAIN PLUMB WHILE WORKING BACKFILL AROUND ROOTS AND PLACING LAYERS ABOVE ROOTS. TAMP FINAL LAYER OF BACKFILL. REMOVE INJURED ROOTS BY CUTTING CLEANLY; DO NOT BREAK.
- F. ORGANIC MULCHING: APPLY 3-INCH AVERAGE THICKNESS OF ORGANIC MULCH EXTENDING 12 INCHES BEYOND EDGE OF PLANTING PIT OR TRENCH. DO NOT PLACE MULCH WITHIN 3 INCHES OF TRUNKS OR STEMS.
- G. INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION; TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING. WRAP TREES OF 2-INCH CALIPER AND LARGER WITH TRUNK-WRAP TAPE. START AT BASE OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP, EXPOSING HALF THE WIDTH, AND SECURELY ATTACH WITHOUT CAUSING GIRDLING.

- H. TRUNK WRAPPING: INSPECT TREE TRUNKS FOR INJURY, IMPROPER PRUNING, AND INSECT INFESTATION; TAKE CORRECTIVE MEASURES REQUIRED BEFORE WRAPPING. WRAP TREES OF 2-INCH CALIPER AND LARGER WITH TRUNK-WRAP TAPE. START AT BASE OF TRUNK AND SPIRAL COVER TRUNK TO HEIGHT OF FIRST BRANCHES. OVERLAP WRAP, EXPOSING HALF THE WIDTH, AND SECURELY ATTACH WITHOUT CAUSING GIRDLING.

3.6 TREE AND SHRUB PRUNING

- A. REMOVE ONLY DEAD, DYING, OR BROKEN BRANCHES. DO NOT PRUNE FOR SHAPE.
- B. PRUNE, THIN, AND SHAPE TREES AND SHRUBS AS DIRECTED BY LANDSCAPE ARCHITECT.
- C. PRUNE, THIN, AND SHAPE TREES AND SHRUBS ACCORDING TO STANDARD HORTICULTURAL PRACTICE. PRUNE TREES TO RETAIN REQUIRED HEIGHT AND SPREAD. UNLESS OTHERWISE INDICATED BY ARCHITECT, DO NOT CUT TREE LEADERS; REMOVE ONLY INJURED OR DEAD BRANCHES FROM FLOWERING TREES. PRUNE SHRUBS TO RETAIN NATURAL CHARACTER.

3.7 TREE STABILIZATION

- A. TRUNK STABILIZATION: WHERE INDICATED, PROVIDE TRUNK STABILIZATION AS FOLLOWS:
 1. UPRIGHT STAKING AND TYING: STAKE TREES OF 2 1/2- THROUGH 4 1/2-INCH CALIPER. STAKE TREES OF 2-INCH CALIPER OR LESS ONLY AS REQUIRED TO PREVENT WIND TIP-OUT. USE A STAKES OF LENGTH REQUIRED TO PENETRATE AT LEAST 18 INCHES BELOW BOTTOM OF BACKFILLED EXCAVATION AND TO EXTEND ONE THIRD OF TRUNK HEIGHT ABOVE GRADE. SET VERTICAL STAKES AND SPACE TO AVOID PENETRATING ROOT BALLS OR ROOT MASSES.
 2. USE 2 STAKES FOR TREES UP TO 12 FEET HIGH AND 2-1/2 INCHES OR LESS IN CALIPER; 3 STAKES FOR TREES LESS THAN 14 FEET HIGH AND UP TO 4 INCHES IN CALIPER. SPACE STAKES EQUALLY AROUND TREES.
 3. SUPPORT TREES WITH BANDS OF FLEXIBLE TIES AT CONTACT POINTS WITH TREE TRUNK. ALLOW ENOUGH SLACK TO AVOID RIGID RESTRAINT OF TREE.
 4. SUPPORT TREES WITH ELASTIC BANDS OR STRAPS AT CONTACT POINTS WITH TREE TRUNK. ALLOW ENOUGH SLACK TO AVOID RIGID RESTRAINT OF TREE. HOSE AND WIRE ARE NOT ACCEPTABLE FOR STAKED TREES.

3.8 GROUND COVER AND PLANT PLANTING

- A. SET OUT AND SPACE GROUND COVER AND PLANTS AS INDICATED ON PLANS.
- B. DIG HOLES LARGE ENOUGH TO ALLOW SPREADING OF ROOTS AND BACKFILL WITH PLANTING SOIL.
- C. WORK SOIL AROUND ROOTS TO ELIMINATE AIR POCKETS AND LEAVE A SLIGHT SAUCER INDENTATION AROUND PLANTS TO HOLD WATER.
- D. WATER THOROUGHLY AFTER PLANTING, TAKING CARE NOT TO COVER PLANT CROWNS WITH WET SOIL.
- E. PROTECT PLANTS FROM HOT SUN AND WIND; REMOVE PROTECTION IF PLANTS SHOW EVIDENCE OF RECOVERY FROM TRANSPLANTING SHOCK.

3.9 PLANTING BED MULCHING

- A. MULCH BACKFILLED SURFACES OF PLANTING BEDS AND OTHER AREAS INDICATED. PROVIDE MULCH RING AROUND TREES IN LAWN AREAS.
 1. ORGANIC MULCH: APPLY 3-INCH AVERAGE THICKNESS OF ORGANIC MULCH, AND FINISH LEVEL WITH ADJACENT FINISH GRADES. DO NOT PLACE MULCH AGAINST PLANT STEMS.
 2. LIGHTLY COMPACT MULCH IN ALL PLANTING BEDS TO AVOID WASHING OUT OR FLOATING AWAY.

3.11 PLANT MAINTENANCE

- A. TREE AND SHRUB MAINTENANCE: MAINTAIN PLANTINGS BY PRUNING, CULTIVATING, WATERING, WEEDING, FERTILIZING, RESTORING PLANTING SAUCERS, ADJUSTING AND REPAIRING STAKES AND GUY SUPPORTS, AND ROOT-BALL STABILIZATION, AND RESETTING TO PROPER GRADES OR VERTICAL POSITION, AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS. SPRAY OR TREAT AS REQUIRED TO KEEP TREES AND SHRUBS FREE OF INSECTS AND DISEASE. RESTORE OR REPLACE DAMAGED TREE WRAPPINGS.
- B. GROUND COVER AND PLANT MAINTENANCE: MAINTAIN AND ESTABLISH PLANTINGS BY WATERING, WEEDING, FERTILIZING, MULCHING, AND OTHER OPERATIONS AS REQUIRED TO ESTABLISH HEALTHY, VIABLE PLANTINGS.

3.12 CLEANUP AND PROTECTION

- A. DURING PLANTING, KEEP ADJACENT PAVING AND CONSTRUCTION CLEAN AND WORK AREA IN AN ORDERLY CONDITION.
- B. PROTECT EXTERIOR PLANTS FROM DAMAGE DUE TO LANDSCAPE OPERATIONS, OPERATIONS BY OTHER CONTRACTORS AND TRADES, AND OTHERS. MAINTAIN PROTECTION DURING INSTALLATION AND MAINTENANCE PERIODS. TRIM, REPAIR, OR REPLACE DAMAGED PLANTINGS.

3.13 DISPOSAL

- A. DISPOSAL: REMOVE SURPLUS SOIL AND WASTE MATERIAL, INCLUDING EXCESS SUBSOIL, UNSUITABLE SOIL, TRASH, AND DEBRIS, AND LEGALLY DISPOSE OF THEM OFF OWNERS PROPERTY.

END OF DOCUMENT 329300

OWNER:
Port KC
300 Wyandotte, #100
Kansas City, MO 64105

CIVIL ENGINEER:
Taliaferro & Browne, Inc
1020 E. 8th St
Kansas City, MO 64106

LANDSCAPE ARCHITECT:
Phronesis
1427 W 9th Street, #301
Kansas City, MO, 64101
T 816-214-0896
www.phronesis-design.com



Berkley Plaza Landscape

Berkley Riverfront
Kansas City, Missouri

ALL DRAWINGS AND WRITTEN INFORMATION APPEARING HEREIN SHALL NOT BE DUPLICATED, DISCLOSED OR OTHERWISE USED WITHOUT THE WRITTEN CONSENT OF THE ARCHITECT.

T. DUGGAN
PRINCIPAL IN CHARGE
L. KLEIN
PROJECT MANAGER

PROJECT TEAM MEMBERS

PERMIT SET 10/25/16
RELEASE & REVISION DATES

BID SET 01/10/18
ISSUE DATE

LANDSCAPE DETAILS
L 205

EXHIBIT B

KCMO Seed and Sod Maintenance Specification

**DIVISION II
CONSTRUCTION AND MATERIAL SPECIFICATIONS
SECTION 2400 SEEDING AND SODDING**

Approved and Adopted this 21st day of October, 1981

KANSAS CITY METROPOLITAN CHAPTER
OF THE AMERICAN PUBLIC WORKS ASSOCIATION

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SECTION 2400 SODDING, SEEDING AND OVERSEEDING

2401 SCOPE: The Contractor shall furnish all plants and materials and perform all operations in connection with the preparation, fertilizing, placing, watering, firming and establishment, of sodded and seeded areas, complete and in strict accordance with these specifications and applicable drawings, and subject to the terms and conditions of the contract. The Contractor shall sod and/or seed disturbed areas where shown on the drawings or by field inspection. The Contractor shall be responsible for establishment of grass.

2402 QUALITY ASSURANCE

2402.1 Qualifications of Workman: Provide at least one person, who shall be present at all times during execution of this work, who is thoroughly familiar with all materials and installation procedures included in the Sodding and Seeding operations as specified herein.

2402.2 Standards:

- A. Certified Sod:** State Certified Sod shall be turfgrass sod, grown from certified high quality seed that has been inspected by the Missouri State Certification Agency.
- B. Certified Seed:** Certified Seed shall be packaged and labeled with an inspection certificate from the Missouri State Certification Agency stating genetic identity, purity and freedom from noxious weeds as well as excessive amounts of other crop and weedy plants at time of harvest.

2402.3 Standard Specifications: Standard specifications shall refer to the American Sod Producers Associations (A.S.P.A.) "Specifications for Turfgrass Sod", and "Specifications for Topsoil Material and Application".

2403 SUBMITTALS: Prior to the delivery to the job site, Contractor shall submit to the Owner the source and supplier of all grass sod, seed, fertilizer and mulch materials along with the type of equipment to be used on this project.

2404 PRODUCT HANDLING

2404.1 Delivery and Storage:

- A. Delivery Containers:** Deliver all items to the site in their original containers with all labels intact and legible at time of Owner's Representative inspection.
- B. Protection:** Use all means necessary to protect all materials before, during and after installation, and to protect the installed work and materials of all other trades.

2404.2 Replacements: In the event of damage or rejection, immediately make all repairs and replacements to the approval of the Owner's Representative and at no additional cost to the Owner.

2404.3 Time of Planting:

- A. Weather Conditions:** All sodding and seeding shall be performed during favorable weather conditions and only during normal and acceptable planting seasons when satisfactory growing conditions exist. The planting operations shall not be performed during times of extreme drought, when ground is frozen or during times of other unfavorable climatic conditions unless otherwise approved by Owner's Representative. The Contractor assumes full and complete responsibility for all such plantings and operations.
- B. Planting Dates:** Recommended dates for all seeding and planting shall be March 15 through April 31 for spring planting and September 1 through October 15 for fall planting.

2405 MATERIALS

2405.1 Sod: All grass sod shall be State Certified, nursery grown native mixture of Hounddog, Rebel, Pride, Cochise, Coyote or other substitute, as may be approved. Sod shall be a Tall Turf type Fescue with 10 percent Bluegrass that is free of objectionable grassy and broadleaf weeds. Sod shall be considered free of such weeds if less than 5 such plants are present per 100 square feet of area. Sod will not be acceptable if it contains any of the following weeds: Common burmuda grass, (wiregrass), quackgrass, johnsongrass, poison ivy, nutsedge, mumblewill, Canada thistle, bindweed, wild garlic, ground ivy, perennial sorrel and brome grass.

- A. Pad Size:** The sod shall be cut to supplier's standard width and length but not less than 12 x 24 inches and not more than 24 x 72 inches or bigger sizes that are approved by the owner. There shall not be broken pads, torn or uneven ends.
- B. Strength:** Root development shall be such that standard size pieces will support their own weight and retain their shape when suspended vertically from a firm grasp on the uppermost 10% of area.
- C. Mowing Height:** Before harvesting sod, it shall be mowed uniformly at a height of 2-2 ½ inches. The sod shall be stripped or harvested by machine at a uniform thickness of 1 ½ inches +/- ¼ inch. Measurement of thickness shall exclude top growth and thatch.

2405.2 Seed: Seed shall be labeled in accordance with U.S. Department of Agriculture Rules and Regulations under Federal Seed Act. All seed shall be furnished in sealed standard containers unless exception is granted in writing by the Owner's Representative. Seed shall be free from noxious weeds and re-cleaned "Grade A" recent crop seed treated with appropriate fungicide at time of mixing. Seed which has become wet, moldy, or otherwise damaged in transit or in storage will not be acceptable. Seed mix to be used will be identified prior to sowing. The minimum percentage by weight of pure live seed in each lot seed shall be as follows:

A. Seeding – Mix #1 (Turf Areas):

Festuca arundinacea, Fineleaf Tall Fescue. Varieties- Hounddog V. Rebel Jr., Rebel III, Rebel 3D, Barlexas, Millennium, Southern Choice, Tar Heel, Wolf Pack, Bonsai 2000, Shortstop II Coyote, or other pre-approved substitutes.....	62.5%
Poa pratensis, Kentucky Bluegrass. Varieties- Baran, Nassau, Ram I, Nublue, Rugby II, Award, Blacksburg, Challenger, Eagleton, Limousine, Livingston, Midnight, Nuglade, Preakness, Princeton 105, Quantum Leap, 1757 or other approved substitutes.....	25.0%
Lolium multiflorum – annual ryegrass.....	12.5%

B. Seeding – Mix #2 (Low Use Areas):

Fescure ovina, Sheeps Fescue. Varieties- Azay, Big Horn, or other pre-approved substitutes.....	15.0%
Fescura rubra subsp. Commutata, Chewings Fescue, Varieties-James town II, Victory, Tiffany, or other approved substitutes.....	20.0%
Fescuca longifolia, Hard Fescue. Varieties- Spartan, Tournament, Warwick, Discovery, Waldina, Aurora, 4 AG Attila, Reliant II, Scaldis, or other pre-approved substitutes.....	35.0%
Fescuca ruba subsp. Ruba, Creeping Red Fescue. Varieties- Shademaster II, Jasper, Cindy, Pennlawn, or other pre-approved substitutes	30.0%

C. Seeding Rate: Seed mixture shall be sown at the minimum rate of 10 pounds per 1000 square feet for new seeding. See Section 2406.3.E.1 for overseeding rates.

2405.3 Inorganic Fertilizer: Inorganic fertilizer shall be composed of a formula 10-10-10 or other approved substitute, and shall conform to the applicable State fertilizer laws. It shall be uniform in composition, dry and free flowing and shall be delivered to the site in the original unopened containers each bearing the manufacturer’s guaranteed analysis. Any fertilizer which becomes caked or otherwise damaged, making it unsuitable for use, will not be accepted.

2405.4 Water: Water, hose and other watering equipment required for the work shall be furnished by the Contractor.

2405.5 Other Materials: Other materials not specifically described by required for a complete and proper planting installation, shall be as selected by the Contractor subject to the approval by the Owner’s Representative.

2406 INSTALLATION

2406.1 Job Conditions:

- A. **Area:** Areas to be seeded and sodded shall be as shown on the plans or as directed by the City's Representative.
- B. **Seasons:** Seeding and sodding shall be performed only during the seasons when satisfactory growing conditions exist. The planting operation shall not be performed during times of drought or other unfavorable climatic conditions. The Owner's Representative shall approve time of planting.
- C. **Pre-planting Inspection:** Prior to the work of this section, the Contractor shall carefully inspect the installed work of all other trades and verify that all such work is complete to the point where installation may properly commence.
- D. **Discrepancies:** Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

2406.2 Grading and Tillage:

- A. **Preparation:** All areas to be seeded and/or sodded shall be tilled or disked to a depth of 3-4 inches and raked or smoothed to remove debris, clods, surface stone 2 inches diameter or larger and weeds. Grades on the areas to be sodded or seeded shall be maintained in true, even and compacted conditions to prevent the formations of depressions. Areas overseeded, to be seeded or sodded that have washed or eroded shall be brought to grade and compacted thoroughly by the Contractor prior to placing the sod, seeding or overseeding. No grading shall be done when the soils are in a muddy or frozen condition.
- B. **Steel Edging:** The finish sub-grade of areas to be planted shall be 2" below top of steel edging, if present, for grass sod and flush with top of steel edging for seeding.
- C. **Other Edges:** The finished sub-grade next to curbs, sidewalk and drive approaches shall allow for the sod to be placed level with the improvement. The sub-grade shall be finished level with the improvement for seeding.
- D. **Fertilizer Application:** For areas to be sodded, and/or seeded, fertilizer shall be applied when area receives final grading and tillage.
- E. **Erosion Fencing:** Erosion fencing shall be in place outside of grading/tilling areas when seed bed areas are on any degree of slope.

2406.3 Fertilizer:

- A. **Soil Test:** The Contractor has the option to obtain soil tests from a recognized testing laboratory, approved by Owner's Representative, to determine soil pH, nitrogen, phosphorus and potassium requirements and organic matter content. A pH of 5.8 to 7.0 and phosphorus and potassium levels of medium or higher range for the particular test used is required. Soils falling below these test levels must be supplemented with the appropriate materials to meet such test levels.

- B. Fertilizers:** If the above soil test is not performed a 10-10-10 fertilizer shall be applied at the rate of 1,100 pounds per acre. Fertilizer shall be distributed evenly over the area to be seeded or sodded.

2406.4 Installation of Seed and Sod:

- A. Acceptance of Plant Bed:** Acceptance of the plant bed for seeding or sodding shall be obtained from the Owner's Representative for each section of area as indicated on drawings. The Contractor shall be responsible for maintaining the accepted areas until the effective date for planting.

B. Sowing Seed:

1. Seed mixed in proportions shown in Section 2405.2 may be Broadcast by approved sowing equipment. The seed shall be uniformly distributed over the designated areas. The seed shall be covered to an average depth of ½ inch by means of a brush harrow, spike-tooth harrow, chain harrow, cultipacker or other approved device.
2. Areas to be seeded shall be fertilized at rates specified in Section 2406.3. The seedbed shall be free of any irregularities in the surface, and shall be corrected in order to prevent formation of water pockets. All seeded areas are to be completely covered with hydromulch or with straw anchored to the soil a minimum depth of 3 inches by a disc harrow set nearly straight, to properly maintain soil moisture and to provide shade for the newly germinated chutes.
3. Promptly after seeding, wet the seedbed thoroughly, keeping all areas moist throughout the germination period. Protect all turf areas by erecting temporary fences, barriers, signs, etc. as necessary to prevent trampling and disturbance.
4. When delays in operations carry the work beyond the most favorable planting season for the grasses designated, or when conditions are such, by reason of drought, high winds, excessive moisture, or other factors that satisfactory results are not likely to be obtained, the seeding operation shall be stopped and work shall be resumed only when conditions are favorable again or when approved alternative or corrective measures and procedures have been put into effect. If inspection during seeding operations or after indicate there are areas which have been skipped, the sowing of additional seed on these areas will be required.
5. The seeded areas will be inspected for acceptable grass coverage and will be acceptable when grasses designated are growing and are in good condition and no area more than ½ of one percent of the total areas shall be bare, of which no single area shall be more than one foot square in area. Any bare area larger than this will not be acceptable and shall be reseeded.

C. Hydroseeding:

1. Seed and fertilizer, mixed in proportions previously specified, may be broadcast in a hydromulch with water which forms an emulsion and covers the prepared designated areas in a uniform manner.

2. Areas to be hydroseeded shall be fertilized at rates specified in Section 2406.3. The seed-bed shall be free of any irregularities in the surface, and shall be corrected to prevent formation of water pockets.
3. Hydromulch used shall be a wood fiber mulch with tackifier, such as Conwit 2000, or approved equivalent. Hydromulch shall be applied at the rate of 1500 lbs. per acre.
4. Hydroseeder filling tank should be $\frac{1}{2}$ full of water before adding seed, fertilizer and hydromulch components. Begin agitation while adding remaining water so that a uniform mixture is obtained. Seed, fertilizer and hydromulch components shall not be added to water more than four (4) hours prior to application.
5. Discharge hydromulch slurry mix on prepared soil for uniform distribution.
6. Keep all areas seeded moist throughout germination period. Protect all turf areas by erecting temporary fences, barriers, signs, etc. as necessary to prevent trampling and disturbance.
7. The seeded areas will be inspected for acceptable grass coverage and will be acceptable when grasses designated are growing and are in good condition and no area more than $\frac{1}{2}$ of one percent of the total areas shall be bare, of which no single area shall be more than one foot square in area. Any bare area larger than this will not be acceptable and shall be reseeded.

D. Sodding:

1. Sod shall not be harvested or delivered when excessively wet or dry. Sod shall be harvested, delivered and installed within a period of 36 hours.
2. Areas to be sodded shall be fertilized at the rates specified in Section 2406.3. The sod-bed shall be free of any irregularities in the surface resulting from fertilizing or other operations and shall be corrected in order to prevent the formation of water pockets.
3. The first row of sod should, if possible, be laid in a straight line with subsequent rows placed parallel and tightly against one another. Lateral joints shall be staggered as in brick laying to promote more uniform growth and strength. Care shall be exercised to ensure that the sod is not stretched or overlapped and that all joints are butted tight in order to prevent voids which would otherwise cause air drying of the roots. Where new sod meets existing grassed areas, a straight, vertical edge shall be cut to allow smooth match. Sod shall be watered and firmed in accordance with Section 2406.3.D.5. If it is necessary to walk excessively on newly laid sod or soil, walking boards should be laid for this purpose.
4. Sod shall be laid with staggered joints and at right angles to direction of slope. Sod shall be secured by tamping or rolling. On slopes 1 in 3 or steeper, all sod shall be pegged with $\frac{1}{2}$ inch square by 8 inch long wooden pegs, or approved equal, driven to the top of the sod. Four pegs per square yard shall be required.

5. The Contractor shall be responsible for having adequate water available at the site prior to and during the installation of the sod and the areas to be seeded. The sod shall be watered immediately after installation to prevent drying during progress of the work. As sodding is completed on any one section, the entire area shall be thoroughly irrigated to a one inch depth below the new sod pad. After a short drying period, the sod shall be rolled with a roller weighing not less than 60 or more than 90 pounds per linear foot to firm the sod pad and smooth minor surface irregularities. Subsequent watering should maintain moisture to a depth of at least four inches.
6. The sodded areas will be inspected for the acceptable grass coverage and will be acceptable when grasses designated are growing and are in good conditions, and no area more than ½ of one percent of the total area shall be bared or dead, of which no single area shall be more than one foot square in area. Any bare or dead area larger than this will not be acceptable, and shall be re-sodded.

E. Overseeding:

1. All designated existing turf areas being overseeded shall use seed previously specified at the rate of 160 pounds per acre in a uniform manner.
2. Areas to be overseeded shall be fertilized at rates previously specified. The seed-bed shall be free of any irregularities in the surface, and shall be corrected in order to prevent formation of water pockets.
3. Seed shall be applied with a seed drill. The seed drill shall verticut the soil to a minimum depth of ½ inch at not more than 1 ½ inch spacing between furrows.
4. Areas that have washed or eroded shall be brought to grade and compacted prior to overseeding.
5. The seeded areas shall be inspected for acceptable grass coverage and will be acceptable when grasses designated are growing and are in good condition. Not more than ½ of one percent of the designated turf area shall be bare, of which no single area shall be more than one foot square in area. Any area left unseeded larger than this will not be acceptable, and be reseeded.

2407 ACCEPTANCE OF SODDING AND SEEDING

2407.1 Acceptance: The Contractor shall be responsible for maintaining the installed grass seed and sod until all areas are complete and accepted by the Owner's Representative. Acceptance by the City will occur when areas seeded and/or sodded are determined to be established turf areas ready for mowing. Grass areas in excess of one (1) square foot that are dead or in poor condition regarding color and quality shall be replaced at the Contractor's expense prior to the initiation of the Maintenance Period.

2407.2 Sod Watering: Throughout the Maintenance Period, the Contractor shall be responsible for watering the installed sod until it is established and ready for mowing. In the absence of rainfall, watering shall be performed daily during the first week and shall be sufficient to maintain moist soil to a depth of at least 4 inches. Soil on sod pads shall be kept moist at all times. Watering may be done during the heat of the day to help

prevent wilting. After the second week, the Contractor shall water the sod as required to maintain adequate moisture in the upper 4 inches of topsoil necessary for the promotion of deep root growth until final acceptance as established turf areas ready for mowing.

2407.3 Seed Watering: The Contractor shall be responsible for watering seeded areas following the substantial germination of the seed and the occurrence of a dry or drought period. Continued watering will be required until final acceptance as established turf areas ready for mowing.

2407.4 Acceptance Notification: After acceptance of the seeded or sodded area by the Owner's Representative, the Contractor shall by door hangers or other approved methods, notify all affected property owners that the maintenance of the grassed areas is now their responsibility.

2408 CLEAN-UP: During the progress of this work and upon completion, thoroughly clean the project area, remove and properly dispose of all resultant dirt, debris and other waste materials.

2409 MEASUREMENT AND PAYMENT

2409.1 Measurement:

A. Seeding and Overseeding:

1. Per acre (hectare) or hundredth party thereof
2. Horizontal in linear feet (decimeter) along the centerline of sewer, regardless of the width of disturbed areas or type of seed used. Seeding will be measured only when centerline of sewer lies in grassed areas to be seeded as shown on the plans. Areas that are disturbed which lie outside the Contractor's normal trenching operation areas will not be measured for payment, but shall be restored to a condition equal to or better than that existing prior to construction. Each area measured will be measured either as seeding or sodding, but not as both. When sewer ends in grassed area, measurement will be made only to centerline of manhole.
3. Horizontal in linear feet (decimeter) along the back of curb (edge of pavement) regardless of the width of disturbed areas or type of seed used. Measurement will be made on each side of the roadway. No measurement will be made through or along intersecting roadways, drive approaches or similar structures.

B. Sodding:

1. Per square yard (square meter).
2. Horizontal in linear feet (decimeter) along the centerline of sewer, regardless of width of disturbed areas or type of sod used. Sodding will be measured only when centerline of sewer lies in grassed areas to be sodded as shown on the plans.

Areas that are disturbed which lie outside the Contractor's normal trenching operation areas will not be measured for payment, but shall be restored to a condition equal to or better than that existing prior to construction. Each area measured will be measured as either seeding or sodding, but not as both. When sewer ends in grassed areas, measurement will be made only to centerline of manhole.

3. Horizontal in linear feet (decimeter) along the back of curb (edge of pavement) regardless of the width of disturbed areas or type of sod used. Measurement will be made on each side of the roadway. No measurement will be made through or along intersecting roadways, drive approaches or similar structures.

2409.2 Payment:

A. Contract unit bid price

B. Contract lump sum bid price

EXHIBIT C

Bid Forms

Please complete the following form and return with Bid.

Bidding Organization Name: _____

Project Name: Berkley Plaza Landscape

Contractual Responsibility: Procurement, Installation, Warranty, and Maintainance

NOTES: 1) IN THE EVENT OF DISCREPANCY, UNIT PRICE SHALL GOVERN, 2) IN THE EVENT OF DISCREPANCY, QUANTITIES IN PLANS & SPECIFICATONS SHALL GOVERN.

Berkley Plaza

Item #	Item	Unit	Quantity	Unit Price	Extension
PBSM	Amend and Prepare Planting Bed Soil. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications. (Section 329300, 2.11)	SF			
TA	Acer rubrum 'Autumn Blaze' 2" Cal. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications.	EA			
GB	Ginkgo biloba 'Princeton Sentry' 2" Cal. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications.	EA			
UD	Ulmus davidiana 'Discovery' 2" Cal. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specification.	EA			
PV	Panicum virgatum 'Shenandoah'. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications.	EA			
SH	Sporobolus heterolepis. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications.	EA			
DSHM	Double Shredded Hardwood Mulch (Dark Brown). Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications. (Section 329300, 2.8)	CUBIC YDS			
DG2	Decorative Gravel Type 1, 4-8" Black-Gray Cobblestone, 18" Depth - Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications. (Section 329300, 2.12)	SF			
B	Boulders (24"x24"x24") Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications. (Section 329300, 2.13)	EA			
FS	Fescue Sod and Soil Preparation. Procure, Install, Warranty (1 Year), and Maintain (3 Months) per Plans & Specifications. (KCMO APWA 2400 - Exhibit B)	SF			
GRAND TOTAL (LUMP SUM BID PRICE)		\$			

(use figures)

The above prices shall include the cost of Bonds and Insurance

Refer to RFP regarding Bid Specifications and additional requirements

Exhibit D

AIA- A305 Qualifications Form

Please complete the following form and return with Bid.

 **AIA® Document A305™ – 1986****Contractor's Qualification Statement**

The Undersigned certifies under oath that the information provided herein is true and sufficiently complete so as not to be misleading.

SUBMITTED TO:

ADDRESS:

SUBMITTED BY:

NAME:

ADDRESS:

PRINCIPAL OFFICE:

- Corporation
- Partnership
- Individual
- Joint Venture
- Other

NAME OF PROJECT *(if applicable):*

TYPE OF WORK (file separate form for each Classification of Work):

- General Construction
- HVAC
- Electrical
- Plumbing
- Other (please specify)

ADDITIONS AND DELETIONS:

The author of this document has added information needed for its completion. The author may also have revised the text of the original AIA standard form. An *Additions and Deletions Report* that notes added information as well as revisions to the standard form text is available from the author and should be reviewed. A vertical line in the left margin of this document indicates where the author has added necessary information and where the author has added to or deleted from the original AIA text.

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification.

This form is approved and recommended by the American Institute of Architects (AIA) and The Associated General Contractors of America (AGC) for use in evaluating the qualifications of contractors. No endorsement of the submitting party or verification of the information is made by AIA or AGC.

§ 1. ORGANIZATION

§ 1.1 How many years has your organization been in business as a Contractor?

§ 1.2 How many years has your organization been in business under its present business name?

§ 1.2.1 Under what other or former names has your organization operated?

§ 1.3 If your organization is a corporation, answer the following:

§ 1.3.1 Date of incorporation:

§ 1.3.2 State of incorporation:

§ 1.3.3 President's name:

§ 1.3.4 Vice-president's name(s)

§ 1.3.5 Secretary's name:

§ 1.3.6 Treasurer's name:

§ 1.4 If your organization is a partnership, answer the following:

§ 1.4.1 Date of organization:

§ 1.4.2 Type of partnership (if applicable):

§ 1.4.3 Name(s) of general partner(s)

§ 1.5 If your organization is individually owned, answer the following:

§ 1.5.1 Date of organization:

§ 1.5.2 Name of owner:

§ 1.6 If the form of your organization is other than those listed above, describe it and name the principals:

§ 2. LICENSING

§ 2.1 List jurisdictions and trade categories in which your organization is legally qualified to do business, and indicate registration or license numbers, if applicable.

§ 2.2 List jurisdictions in which your organization's partnership or trade name is filed.

§ 3. EXPERIENCE

§ 3.1 List the categories of work that your organization normally performs with its own forces.

§ 3.2 Claims and Suits. (If the answer to any of the questions below is yes, please attach details.)

§ 3.2.1 Has your organization ever failed to complete any work awarded to it?

§ 3.2.2 Are there any judgments, claims, arbitration proceedings or suits pending or outstanding against your organization or its officers?

§ 3.2.3 Has your organization filed any law suits or requested arbitration with regard to construction contracts within the last five years?

§ 3.3 Within the last five years, has any officer or principal of your organization ever been an officer or principal of another organization when it failed to complete a construction contract? (If the answer is yes, please attach details.)

§ 3.4 On a separate sheet, list major construction projects your organization has in progress, giving the name of project, owner, architect, contract amount, percent complete and scheduled completion date.

§ 3.4.1 State total worth of work in progress and under contract:

§ 3.5 On a separate sheet, list the major projects your organization has completed in the past five years, giving the name of project, owner, architect, contract amount, date of completion and percentage of the cost of the work performed with your own forces.

§ 3.5.1 State average annual amount of construction work performed during the past five years:

§ 3.6 On a separate sheet, list the construction experience and present commitments of the key individuals of your organization.

§ 4. REFERENCES

§ 4.1 Trade References:

§ 4.2 Bank References:

§ 4.3 Surety:

§ 4.3.1 Name of bonding company:

§ 4.3.2 Name and address of agent:

§ 5. FINANCING

§ 5.1 Financial Statement.

§ 5.1.1 Attach a financial statement, preferably audited, including your organization's latest balance sheet and income statement showing the following items:

Current Assets (e.g., cash, joint venture accounts, accounts receivable, notes receivable, accrued income, deposits, materials inventory and prepaid expenses);

Net Fixed Assets;

Other Assets;

Current Liabilities (e.g., accounts payable, notes payable, accrued expenses, provision for income taxes, advances, accrued salaries and accrued payroll taxes);

Other Liabilities (e.g., capital, capital stock, authorized and outstanding shares par values, earned surplus and retained earnings).

§ 5.1.2 Name and address of firm preparing attached financial statement, and date thereof:

§ 5.1.3 Is the attached financial statement for the identical organization named on page one?

§ 5.1.4 If not, explain the relationship and financial responsibility of the organization whose financial statement is provided (e.g., parent-subsidiary).

§ 5.2 Will the organization whose financial statement is attached act as guarantor of the contract for construction?

§ 6. SIGNATURE

§ 6.1 Dated at this _____ day of _____

Name of Organization:

By:

Title:

§ 6.2

_____ being duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

Subscribed and sworn before me this _____ day of _____ 20____

Notary Public:

My Commission Expires:

Additions and Deletions Report for AIA® Document A305™ – 1986

T

This Additions and Deletions Report, as defined on page 1 of the associated document, reproduces below all text the author has added to the standard form AIA document in order to complete it, as well as any text the author may have added to or deleted from the original AIA text. Added text is shown underlined. Deleted text is indicated with a horizontal line through the original AIA text.

Note: This Additions and Deletions Report is provided for information purposes only and is not incorporated into or constitute any part of the associated AIA document. This Additions and Deletions Report and its associated document were generated simultaneously by AIA software at 13:28:18 on 03/22/2006.

PAGE 6

M—being duly sworn deposes and says that the information provided herein is true and sufficiently complete so as not to be misleading.

...

Subscribed and sworn before me this day of 2020

Certification of Document's Authenticity

AIA® Document D401™ – 2003

I, Charles V. Bucci, hereby certify, to the best of my knowledge, information and belief, that I created the attached final document simultaneously with its associated Additions and Deletions Report and this certification at 13:28:18 on 03/22/2006 under Order No. 1000201877_1 from AIA Contract Documents software and that in preparing the attached final document I made no changes to the original text of AIA® Document A305™ – 1986 - Contractor's Qualification Statement, as published by the AIA in its software, other than those additions and deletions shown in the associated Additions and Deletions Report.

(Signed)

(Title)

(Dated)

Exhibit E

Prevailing Wage Order 24 – Jackson County

Missouri

Division of Labor Standards

WAGE AND HOUR SECTION



ERIC R. GREITENS, Governor

Annual Wage Order No. 24

Section 048

JACKSON COUNTY

In accordance with Section 290.262 RSMo 2000, within thirty (30) days after a certified copy of this Annual Wage Order has been filed with the Secretary of State as indicated below, any person who may be affected by this Annual Wage Order may object by filing an objection in triplicate with the Labor and Industrial Relations Commission, P.O. Box 599, Jefferson City, MO 65102-0599. Such objections must set forth in writing the specific grounds of objection. Each objection shall certify that a copy has been furnished to the Division of Labor Standards, P.O. Box 449, Jefferson City, MO 65102-0449 pursuant to 8 CSR 20-5.010(1). A certified copy of the Annual Wage Order has been filed with the Secretary of State of Missouri.

Original Signed by _____

Tammy Cavender
Acting Department Director
Division of Labor Standards

This Is A True And Accurate Copy Which Was Filed With The Secretary of State: March 10, 2017

Last Date Objections May Be Filed: April 10, 2017

Prepared by Missouri Department of Labor and Industrial Relations

OCCUPATIONAL TITLE	** Date of Increase	*	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
Asbestos Worker (H & F) Insulator			\$36.97	52	53	\$25.45
Boilermaker	6/17		\$36.56	57	7	\$29.13
Bricklayer and Stone Mason	6/17		\$34.74	58	39	\$19.29
Carpenter	6/17		\$37.73	63	68	\$16.85
Cement Mason	6/17		\$31.52	65	4	\$19.06
Communication Technician			\$34.50	47	72	\$21.43
Electrician (Inside Wireman)			\$37.31	13	72	\$17.77 + 10%
Electrician (Outside-Line Construction\Lineman)			\$42.87	125	65	\$5.25 + 34.5%
Lineman Operator			\$39.62	125	65	\$5.25 + 34.5%
Groundman			\$27.63	125	65	\$5.25 + 34.5%
Elevator Constructor		a	\$45.49	26	54	\$33.235
Glazier	6/17		\$33.97	88	32	\$18.25
Ironworker	6/17		\$32.65	50	4	\$29.05
Laborer (Building):						
General	6/17		\$27.70	30	4	\$15.90
First Semi-Skilled	6/17		\$28.10	30	4	\$15.90
Second Semi-Skilled	6/17		\$28.50	30	4	\$15.90
Lather			USE CARPENTER RATE			
Linoleum Layer and Cutter	6/17		\$35.39	46	67	\$16.85
Marble Mason	6/17		\$35.16	25	4	\$14.11
Marble Finisher	6/17		\$24.58	25	4	\$8.92
Millwright			USE CARPENTER RATE			
Operating Engineer						
Group I			\$38.44	85	4	\$16.02
Group II			\$37.63	85	4	\$16.02
Group III			\$32.08	85	4	\$16.02
Group III-A			\$36.29	85	4	\$16.02
Group IV						
Group V			\$33.68	85	4	\$16.02
Painter	6/17		\$29.34	37	4	\$16.86
Pipe Fitter	6/17		\$44.48	2	33	\$21.15
Plasterer	6/17		\$31.79	68	4	\$17.01
Plumber	6/17		\$43.80	45	33	\$21.64
Pile Driver			USE CARPENTER RATE			
Roofer \ Waterproofor	6/17		\$32.55	95	2	\$18.09
Sheet Metal Worker			\$40.20	17	22	\$21.71
Sprinkler Fitter - Fire Protection			\$36.74	14	4	\$19.62
Terrazzo Worker	6/17		\$35.16	25	4	\$14.11
Terrazzo Finisher	6/17		\$24.58	25	4	\$8.92
Tile Setter	6/17		\$35.16	25	4	\$14.11
Tile Finisher	6/17		\$24.58	25	4	\$8.92
Traffic Control Service Driver			\$15.35	48	49	\$2.71
Truck Driver-Teamster						
Group I			\$30.09	100	4	\$10.90
Group II			\$30.09	100	4	\$10.90
Group III			\$30.29	100	4	\$10.90
Group IV			\$30.29	100	4	\$10.90

Fringe Benefit Percentage is of the Basic Hourly Rate

**Annual Incremental Increase

**REPLACEMENT PAGE
JACKSON COUNTY
BUILDING CONSTRUCTION - OVERTIME SCHEDULE**

FED: Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

NO. 2: Means the maximum of eight (8) hours shall constitute a day's work beginning at 8:00 a.m. to 12:00 noon, 12:30 p.m. to 4:30 p.m. The maximum work week shall be forty (40) hours beginning Monday at 8:00 a.m. and ending Friday at 4:30 p.m. Because of traffic, parking or other circumstances, the hours of work on any project may be any continuous 8½ hours period (8 hours of work plus 30 minutes for lunch) between 7:00 a.m. and 4:30 p.m. When circumstances warrant and when it is mutually beneficial and agreed to, the Employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of 7:00 a.m. and 6:00 p.m. Monday through Thursday, with one-half (½) hour allowed for a lunch period each day. Friday may be used as a make-up day. After ten (10) hours in a workday, or forty (40) hours in a workweek, overtime shall be paid at a rate of one and one-half (1½) times the regular rate of pay. Overtime performed Monday through Saturday shall be paid at the rate of one and one-half (1½) times the regular rate of pay. Sundays and recognized holidays shall be paid at the double (2) time rate of pay. Labor Day shall be paid at triple (3) time. Shift work may be performed at the option of the Contractor. However, whenever shift work is performed it must cover a period not less than (5) consecutive working days. The day shift shall work a regular eight (8) hours shift as outlined above. Employees working a second shift shall receive an additional \$0.25 above the regular hourly rate and perform seven and one-half (7½) hours work for eight (8) hours pay. Third shift employees shall be paid an additional \$0.50 above the regular hourly rate and work seven (7) hours for eight (8) hours pay. In the event a first shift is not required, a second and third shift employee shall receive an additional 15% of the base rate and receive pay for actual hours worked.

NO. 13: Means a regular workday shall consist of eight (8) hours between 8:00 a.m. and 4:30 p.m. Forty (40) hours, within five (5) days -- Monday through Friday inclusive -- shall constitute the regular workweek. The Employer may alter the above stated hours by two (2) hours for an early starting and quitting time only, not to exceed eight (8) hours of work in any one day. When job conditions dictate and as required by the customer, the Employer shall be allowed to establish a four (4) day, ten (10) hour per day work week. This work week is defined as Monday through Thursday, with a Friday make-up day. The normal work day under a ten (10) hour four (4) day work week shall be from 7:00 a.m. to 6:00 p.m., with a one hour starting variance. The make-up day of Friday shall be instituted for specific reasons such as loss of production due to weather and/or holidays. All hours worked in excess of ten (10) hours per day or forty (40) hours per week or hours worked outside the normal work week shall be paid at the applicable overtime rate. The first four (4) hours of overtime after the normal workday, each day Monday through Friday and the first ten (10) hours of overtime on Saturdays shall be paid for at one and one-half (1½) times the regular straight time rate of pay. All other work performed outside of the regularly scheduled working hours and outside of the first ten (10) hours worked on Saturdays shall be paid for at double (2) the regular straight time rate of pay. Sundays and the recognized holidays shall be paid for at double (2) the regular straight time rate of pay, if worked. When so elected by the contractor, multiple shifts of at least five (5) days duration may be worked. When two (2) or three (3) shifts are worked: The first shift (day shift) shall be worked between the hours of 8:00 a.m. and 4:30 p.m. Workmen on the "day shift" shall receive eight (8) hours pay at the regular hourly rate for eight (8) hours work. The second shift (swing shift) shall be worked between the hours of 4:30 p.m. and 12:30 a.m. Workmen on the "swing shift" shall receive eight (8) hours pay at the regular hourly rate plus 10% for seven and one-half (7 ½) hours work. The third shift (graveyard shift) shall be worked between the hours of 12:30 a.m. and 8:00 a.m. Workmen on the "graveyard shift" shall receive eight (8) hours pay at the regular hourly rate plus 15% for seven (7) hours work. A lunch period of thirty (30) minutes shall be allowed on each shift. All overtime work required after the completion of a regular shift shall be paid at one and one-half (1½) times the "shift" hourly rate.

NO. 14: Means eight (8) hours per day shall constitute a day's work. The regular starting time shall be 8:00 a.m., and the regular quitting time shall be 4:30 p.m.; lunch time shall be twelve (12) o'clock noon to 12:30 p.m. The regular starting time may, by mutual consent of employees on the job site, and the employer, be between 7:00 a.m. and 9:00 a.m. with appropriate adjustments made to the regular quitting time and lunch time. All time worked before the regular starting time and after the regular quitting time, Monday through Friday, shall be paid at the rate of time and one-half (1½). Four (4) days at ten (10) hours a day may be worked at straight time. All work commencing with the beginning of the established work day on Saturday shall be paid at the rate of time and one-half (1½). All work commencing with the beginning of the established work day on Sundays and/or Holidays shall be paid at the rate of double (2) time.

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NO. 17: Means the regular working day shall consist of eight (8) hours of labor between 7:00 a.m. and 3:30 p.m. and the regular work week shall consist of five (5) consecutive eight (8) hour days of labor beginning on Monday and ending with Friday of each week. All full-time or part-time labor performed during such hours shall be recognized as regular working hours and paid for at the regular hourly rate. Except as otherwise provided, all work performed outside of regular working hours during the regular work week, shall be at double (2) times the regular rate. Working hours may be varied by two (2) hours. When circumstances warrant and when it is mutually beneficial and agreed to by interested parties, the Employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of five (5) a.m. and six (6) p.m., Monday through Thursday, with one-half (1/2) hour allowed for a lunch period each day. Friday may be used as a make-up day. The make-up day will be voluntary, and a decision not to work may not be held against the employee. When working four (4) ten (10) hour day's overtime will be paid at the time and one-half (1½) rate for the eleventh (11th) and twelfth (12th) hour, all other work will be paid at the double (2) time rate of pay. The first two (2) hours of overtime, Monday through Friday, and the first eight (8) hours on Saturday shall be at time and one-half (1½) for all work. All other overtime shall be at double (2) time. The first two (2) hours of overtime must be concurrent with the regular work day; two (2) hours prior to or following the regular work day are at time and one-half (1½). The regular workday (as previously defined) on Saturday is paid at time and one-half (1½). Work performed outside of the regular Saturday work day is at double (2) time. All work performed on recognized holidays, or days locally observed as such, and Sundays shall be paid at the double (2) time rate of pay.

NO. 25: Means regular working hours of eight (8) hours shall constitute a working day between the hours of 8:00 a.m. to 4:30 p.m. in a forty (40) hour working week of Monday through Friday. Employment on Saturday, Sunday and legal holidays, and employment before or after the regular working hours shall be considered overtime. Employment on Saturday, Sunday and legal holidays shall be paid for at twice (2) the regular hourly rate. Employment from 4:30 p.m. to 12:00 midnight, Monday through Friday, shall be paid for at one and one-half (1½) times the regular hourly rate. From 12:00 midnight until 8:00 a.m. on any day shall be paid for at twice (2) the regular hourly rate.

NO. 26: Means that the regular working day shall consist of eight (8) hours worked between 6:00 a.m., and 5:00 p.m., five (5) days per week, Monday to Friday, inclusive. Hours of work at each jobsite shall be those established by the general contractor and worked by the majority of trades. (The above working hours may be changed by mutual agreement). Work performed on Construction Work on Saturdays, Sundays and before and after the regular working day on Monday to Friday, inclusive, shall be classified as overtime, and paid for at double (2) the rate of single time. The employer may establish hours worked on a jobsite for a four (4) ten (10) hour day work week at straight time pay for construction work; the regular working day shall consist of ten (10) hours worked consecutively, between 6:00 a.m. and 6:00 p.m., four (4) days per week, Monday to Thursday, inclusive. Any work performed on Friday, Saturday, Sunday and holidays, and before and after the regular working day on Monday to Thursday where a four (4) ten (10) hour day workweek has been established, will be paid at two times (2) the single time rate of pay. The rate of pay for all work performed on holidays shall be at two times (2) the single time rate of pay.

NO. 30: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 A.M., except when the work week is scheduled as a week with starting time advanced or delayed. Starting time may be advanced or delayed by the employer up to two (2) hours from the regular starting time. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate. In the event that a scheduled eight (8) hour work day is missed (not to include holidays) because of events out of the control of the contractor, then that missed work day may be made up at straight time the following Saturday. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after the forty (40) hours in a week must be paid at time and one-half (1½). Saturday make-up day shall not be used to make up for time lost due to recognized holidays. The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day). If using a 4-10's schedule, a Friday make-up day is allowed. If using a 4 (10) schedule, any work more than ten (10) hours in a day or forty (40) hours in a work week shall be paid at the time and one-half (1½) rate. Friday make-up day shall not be used to make up for time lost due to recognized holidays. All work performed on Sundays or holidays shall be paid at the double (2) time rate.

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NO. 37: The Employer may choose, at his discretion, to work five eight hour days or four ten hour days with a Friday make-up day, Monday through Friday at straight time. Overtime shall be paid after eight (8) hours when working "five eights" and after ten hours when working "four tens". All work performed on Sundays and recognized holidays shall be paid for at the rate of double (2) time. All Saturday work shall be paid for at the rate of time and one-half (1½) the regular wage rate. All night work during the regular work week other than the above-mentioned days shall be paid for at the rate of time and one-half (1½) the regular wage scale until midnight and double (2) time after midnight except make-up time will be allowed under the following condition: In the event of inclement weather on exterior projects which prevents working the full regular eight (8) hour day, forty (40) hour work week schedule, a Saturday make-up day can be granted. Then said work on Saturday shall be paid at the straight time rate of pay up to a maximum total of forty (40) hours per week.

NO. 45: Means eight (8) hours shall constitute a day's work, beginning at 8:00 a.m. and ending at 4:30 p.m. The regular work week shall be forty (40) hours, beginning Monday, 8:00 a.m. and ending at 4:30 p.m. Friday. Because of traffic, parking and other circumstances, the hours of work on any project may begin as early as 6:00 a.m. with eight (8) hours worked between 6:00 a.m. and 4:30 p.m. When circumstances warrant and when it is mutually beneficial and agreed to, the employer may institute a work week consisting of four (4) consecutive ten (10) hour days, between the hours of 7:00 a.m. and 6:00 p.m., Monday through Thursday. Friday may be used as a make-up day. After ten (10) hours in a workday, or forty (40) hours in a workweek, overtime shall be paid at a rate of one and one-half (1½) times the regular rate of pay. All overtime Monday through Saturday shall be paid at the rate of time and one-half (1½) the regular rate of pay. Sunday and recognized holidays shall be paid at double (2) time. Labor Day shall be paid at triple (3) time. Shift work may be performed at the option of the Contractor. However, whenever shift work is performed it must cover a period not less than (5) consecutive working days. The day shift shall work a regular eight (8) hours shift as outlined above. The hourly rate for second shift (seven and one-half hours worked for eight hours paid) shall be twenty-five cents (\$0.25) over and above the hourly rate. The hourly rate for third shift (seven hours worked, eight hours paid) shall be fifty cents (\$0.50) above the hourly rate. If no first shift is worked, second and third shift employees shall receive an additional fifteen percent (15%) over and above the hourly rate for actual hours worked.

NO. 46: Means the regular work day shall be eight (8) hours from 6:00 a.m. to 6:30 p.m. Starting time may be between 6:00 a.m. and 10:00 a.m. The regular work week shall be forty (40) hours, beginning between 6:00 a.m. and 10:00 a.m. on Monday and ending between 2:30 p.m. and 6:30 p.m. on Friday. All hours in excess of the regular work day and work week shall be considered overtime. Overtime on days recognized as regular work days and on Saturday shall be paid for at the rate of time and one-half (1½) the regular rate. Sunday and recognized holidays shall be paid for at the rate of double time (2) for time worked. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours at straight time rate of pay. The 4-10's must run for a period of at least four (4) days.

NO 47: Means a regular workday shall consist of eight (8) hours between 6:00 a.m. and 6:30 p.m. Forty (40) hours, within five (5) days -- Monday through Friday or Tuesday through Saturday inclusive -- shall constitute the regular workweek. The Employer may alter the above stated hours by two (2) hours for an early starting and quitting time only, not to exceed eight (8) hours of work in any one day. The Employer shall be allowed to establish a four (4) day, ten (10) hour per day work week. This work week is defined as Monday through Thursday, with a Friday make-up day. The normal work day under a ten (10) hour four (4) day work week shall be from 7:00 a.m. to 6:00 p.m. All hours worked in excess of ten (10) hours per day or forty (40) hours per week or hours worked outside the normal work week shall be paid at the applicable overtime rate. The first four (4) hours of overtime after the normal workday, each day Monday through Friday and the first ten (10) hours of overtime on Saturdays shall be paid for at one and one-half (1½) times the regular straight time rate of pay. All other work performed outside of the regularly scheduled working hours and outside of the first ten (10) hours worked on Saturdays shall be paid for at double (2) the regular straight time rate of pay. Sundays and the recognized holidays shall be paid for at double (2) the regular straight time rate of pay, if worked. When so elected by the contractor, multiple shifts of at least five (5) days duration may be worked. When two (2) or three (3) shifts are worked: The first shift (day shift) shall be worked between the hours of 8:00 a.m. and 4:30 p.m. Workmen on the "day shift" shall receive eight (8) hours pay at the regular hourly rate for eight (8) hours work. The second shift (swing shift) shall be worked between the hours of 4:30 p.m. and 12:30 a.m. Workmen on the "swing shift" shall receive eight (8) hours pay at the regular hourly rate plus 10% for seven and one-half (7 ½) hours work. The third shift (graveyard shift) shall be worked between the hours of 12:30 a.m. and 8:00 a.m. Workmen on the "graveyard shift" shall receive eight (8) hours pay at the regular hourly rate plus 15% for seven (7) hours work. A lunch period of thirty (30) minutes shall be allowed on each shift. All overtime work required after the completion of a regular shift shall be paid at one and one-half (1½) times the "shift" hourly rate.

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NO. 48: Means the regularly scheduled work week shall be five (5) consecutive days, Monday through Friday or Tuesday through Saturday. Eight (8) hours shall constitute a day's work. Starting time shall not be earlier than 7:00 a.m. nor later than 10:00 a.m. Forty (40) hours shall constitute a week's work. Overtime at the rate of time and one-half (1½) will be paid for all work in excess of forty (40) hours in any one work week. On the Monday through Friday schedule, all work performed on Saturday will be time and one-half (1½) unless time has been lost during the week, in which case Saturday will be a make up day to the extent of the lost time. On the Tuesday through Saturday schedule, all work performed on Monday will be time and one-half (1½) unless time has been lost during the week, in which case Monday will be a make-up day to the extent of the lost time. Any work performed on Sunday will be double (2) time. If employees work on any of the recognized holidays, they shall be paid time and one-half (1½) their regular rate of pay for all hours worked.

NO. 50: Means eight (8) hours constitute a normal day's work Monday through Friday. Any time worked over eight (8) hours will normally be paid at time and one-half (1½) except for exclusions stated in some following additional sentences. The Employer, at his discretion, may start the work day between 6:00 a.m. and 9:00 a.m. Any schedule chosen shall be started at the beginning of the work week (Monday) and used for at least five days. Work may be scheduled on a four (4) days a week (Monday through Thursday) at ten (10) hours a day schedule. If such a schedule is employed, then Friday may be used as a make-up day when time is lost due to inclement weather. Time and one-half (1½) shall be paid for any work in excess of eight (8) hours in any regular work day Monday through Friday unless working 4-10's, then time and one-half (1½) after ten (10) hours. All work performed on Saturday will be time and one-half (1½). Double (2) time shall be paid for all work on Sundays and recognized holidays.

NO. 52: Means the regular workweek shall consist of five (5) eight (8) hour days, Monday through Friday. The regular workday shall consist of an eight (8) hour period, to be worked between the agreed upon starting time and ending no later than 4:30 p.m. The agreed upon starting time shall be any time between the hours of 6:00 a.m. and 8:00 a.m. The option exists for the employer to use a four (4) day, ten (10) hour work week. Days worked shall be Monday through Thursday or Tuesday through Friday. If the job requires men on duty all five (5) days, then part of the crew may work the first four (4) days and the remainder of the crew may work the last four (4) days. Hours each day shall be from 7:00 a.m. to 5:30 p.m. Interested parties on the project must agree to this clause before it may be used. Once this clause has been put into effect, it shall remain as long as the majority of the Employees on the project and the Employer agree to keep it. The four (4) day clause shall not be used to circumvent a Holiday. Except as otherwise provided, all work performed outside the regular working hours and performed during the regular work week (Monday through Friday) shall be at the following rates of pay:

Holidays-New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Christmas Day (or days observed as such) shall be recognized as Holidays that shall be paid at two (2) times the regular rate of pay.

Labor Day-No work shall be performed on Labor Day except in special cases of emergency. Rate of pay shall be at three (3) times the regular rate of pay.

Overtime-Work performed outside of the regular work day (the regular work day shall consist of an eight (8) hour period, to be worked between the agreed upon starting time and ending not later than 4:30 p.m. The agreed upon starting time shall be any time between the hours of 6:00 a.m. and 8:00 a.m., by mutual consent of the interested party's.), shall be:

- A. Hours worked Monday through Friday, the first two (2) hours of overtime will be paid at time and one-half (1½). All other overtime will be paid at the double (2) time rate.
- B. The first ten (10) hours worked on Saturday will be paid at time and one-half (1½), with all other hours to be paid at the double (2) time rate.
- C. Sundays and Holidays (except Labor Day) shall be paid at the double (2) time rate.

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NO. 57: Means eight (8) hours per day shall constitute a day's work and forty (40) hours per week, Monday through Friday, shall constitute a week's work. The regular starting time shall be 8:00 a.m. If a second or third shift is used, the regular starting time of the second shift shall be 4:30 p.m. and the regular starting period for the third shift shall be 12:30 a.m. These times may be adjusted by the employer. The day shift shall work a regular eight (8) hours shift as outlined above. Employees working a second shift shall receive an additional \$0.25 above the regular hourly rate and perform seven and one-half (7½) hours work for eight (8) hours pay. Third shift employees shall be paid an additional \$0.50 above the regular hourly rate and work seven (7) hours for eight (8) hours pay. When circumstances warrant, the Employer may change the regular workweek to four (4) ten-hour days at the regular time rate of pay. All time worked before and after the established workday of eight (8) hours, Monday through Friday, and all time worked on Saturday shall be paid at the rate of time and one-half (1½) except in cases where work is part of an employee's regular Friday shift. All time worked on Sunday and recognized holidays shall be paid at the double (2) time rate of pay except in cases where work is part of an employee's previous day's shift. For all overtime hours worked \$27.76 of the fringe benefits portion of the prevailing wage shall be paid at the same overtime rate at which the cash portion of the prevailing wage is to be paid. The remaining \$1.37 of the fringe benefit portion of the prevailing wage may be paid at straight time.

NO. 58: Means eight (8) consecutive hours, between 6:00 a.m. and 5:30 p.m., shall constitute a day's work. Five (5) days work, Monday through Friday, shall constitute a normal work week. Work performed in excess of eight (8) hours per day or eight hours beyond normal starting time for that project excluding lunch Monday through Friday, and all work performed on Saturday, shall be paid for the rate of time and one-half (1½). When Sundays and recognized holidays are worked, the worker(s) shall be paid at the rate of double (2) time. Work may be scheduled on a four (4) days a week (Monday through Thursday) at ten (10) hours a day schedule at straight time. A Friday make-up day is available if time is lost due to inclement weather and at least sixteen (16) hours, but not more than thirty (30) hours, were worked during the week.

NO. 63: Means eight (8) hours shall constitute the regular work day between time that may be advanced or delayed by two (2) hours on either side of 8:00 AM. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours straight time. The four (4) tens (10s) must run for a period of at least four (4) days, Monday through Thursday. All work on Friday on a four (4) tens (10) project will be paid at the rate of time and one-half (1½). All work performed on Saturday shall be paid at time and one-half (1½). All work performed on Sundays and recognized holidays must be paid at double (2) time. All work performed prior to or after the regular eight (8) hour work day, or ten (10) hour work day, as described above shall be paid at time and one-half (1½) the regular rate.

NO. 65: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 a.m., with one half hour for lunch between three and one-half (3½) and five (5) hours after starting time. The starting time may be advanced by two (2) hours or delayed one (1) hour by the employer from the regular starting time. All work performed before the advanced starting time and during the half hour lunch shall be paid at the overtime rate of time and one-half (1½). Work performed outside these hours shall be paid at the overtime rate of time and one-half (1½), except as provided otherwise below. All work performed on Sundays or recognized holidays shall be paid at the double (2) time rate. When the start time is delayed past 9:00 a.m., the employee's pay shall start at 9:00 a.m. and all time, after the normal quitting time (5:30 p.m.), shall be paid at the overtime rate. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate. In the event that a scheduled eight (8) hour work day is missed (not including recognized holidays) because of inclement weather, then that missed work day may be made up at straight time on the following Saturday. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after forty (40) hours must be paid at time and one-half (1½). The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day at straight time). In order to use the 4-10's schedule, the employer must schedule the 4-10's for a minimum of one (1) week. If using a 4-10's schedule, a Friday make-up day is allowed.

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NO. 68: Means Monday through Sunday shall constitute the work week. Regular starting time shall be 8:00 a.m., with one half hour for lunch between three and one-half and five hours after starting time. The starting time may be advanced or delayed by the employer up to one hour from the regular starting time. All work performed before the advance starting time and during the half hour lunch shall be paid at the overtime rate of time and one-half (1½). Work performed outside these hours shall be paid at the overtime rate of time and one-half (1½), except as provided otherwise below. All work performed on Sundays or holidays shall be paid at the double (2) time rate. Eight (8) hours shall constitute the work day. All work performed prior to or after the regular eight (8) hour work day, as described above, and all work performed on Saturday shall be paid at time and one-half (1½) the regular rate, except as hereinafter described. In the event that a scheduled eight (8) hour work day is missed (not including recognized holidays) because of inclement weather, then that missed work day may be made up at straight time on the Saturday in the week of the pay period. It is recognized that not all employees working on a Saturday make-up day will have worked the same number of hours during the regular work week. It is further recognized that any work after forty (40) hours must be paid at time and one-half (1½). The employer may establish a 4-10's schedule on projects (4 days with 10 hours per day at straight time). In order to use the 4-10's schedule, the employer must schedule the 4-10's for a minimum of one (1) week. If using a 4-10's schedule, a Friday make-up day is allowed.

NO. 85: Means the work week shall be Monday through Sunday. Eight (8) hours shall constitute a day's work to begin between 6:00 a.m. and 9:00 a.m. and end between 2:30 p.m. to 5:30 p.m. Employees required to work during their lunch period shall receive the overtime rate. Employees shall receive time and one-half (1½) for all time they are required to work prior to their normal starting time or after eight (8) hours or normal quitting time Monday through Friday, or all day on Saturday. If an Employer has started the work week on a five day, eight hours a day schedule, and due to inclement weather misses any time, then he may switch to a nine or ten hours a day schedule, at straight time, for the remainder of that work week in order to make up for the lost time (10-hour make-up day). All work over ten (10) hours a day or over forty (40) hours a week must be paid at time & one-half (1½). Sundays and recognized holidays shall be paid at the double (2) time rate of pay. A contractor may alter the regular work week to four (4) ten (10) hour days at straight time rate of pay. To do this the scheduled 4-10's must be worked at least one full week and the regular workweek shall be Monday through Thursday with Friday being a make-up day at straight time for days missed in the regular workweek due to inclement weather. If 5-8's are being worked, Saturday may be used as a make-up day at straight time if inclement weather prevents work during the normal work week.

NO. 88: Means the regular work week shall consist of five (5) eight (8) hour days, 7:00 a.m. to 3:30 p.m., Monday through Friday, except when the work week is scheduled as a 4-10's week or as a week with start time advanced or delayed as described below. The starting time may be advanced or delayed by one hour on either side of 7:00 a.m. The advanced or delayed starting time must run for a period of at least five (5) days. The Employer may establish a work week consisting of four (4) days, during the regular work week, each day consisting of ten (10) hours at straight time. The 4-10's must run for a period of at least four (4) days. Time and one-half (1½) shall be paid for any work in excess of eight (8) hours in any regular work day Monday through Friday (or ten hours in a 4-10's week), the first eight (8) hours of a Saturday, and it shall be at time and one-half (1½) for the Friday and Saturday following Thanksgiving. Double (2) time shall be paid for the following time worked on Sunday, New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day, as well as any work in excess of eight (8) hours on a Saturday and the Saturday of a three-day weekend (except the Saturday following Thanksgiving).

NO. 95: Means a regular workday shall consist of eight and one-half (8½) hours elapsed time, including one-half hour for lunch. The crew starting times shall be flexible within the period of daylight to 8:00 a.m. Any work performed over ten (10) hours of elapsed time per day including one-half hour for lunch and/or any work performed over forty (40) hours at the straight time rate in one week shall be paid at time and one-half (1½) the straight time rate. Saturday shall be a voluntary make-up day at straight time at the discretion of the contractor and with the consent of the employees. Sunday and recognized holidays shall be paid for at double (2) time.

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BUILDING CONSTRUCTION - OVERTIME SCHEDULE**

NO. 100: Means eight (8) hours shall constitute a day's work, and five (5) continuous eight-hour days shall constitute a week's work, Monday through Friday. Time and one-half (1½) the regular hourly rate shall be paid for all work performed in excess of eight (8) hours in any one day or forty (40) hours in any one week. Starting time shall be between 6:00 a.m. and 9:00 a.m. All work over eight (8) hours in a regular 5-day 8-hour schedule shall be at the appropriate overtime rate. All time worked before the regular scheduled starting time shall be paid for at the rate of time and one-half (1½) and shall not apply to regular shift. All time worked after eight (8) hours in any one day or after 5:30 p.m., whichever comes first, shall be paid at the time and one-half (1½) rate. An Employer, at his option, may elect to work four (4) ten (10) hour days, Monday through Thursday, at straight time. All such work must be done at least one week in duration. All work over ten (10) hours in one day or forty (40) hours in a week shall be at the overtime rate. Any employee who is scheduled to work on any regular work day but is prevented from working because of weather conditions, shall be permitted to work on Saturday (Friday if working 4-10's) as a make-up day at the straight time rate of pay. When an employee is required to work on any recognized holiday they shall receive the double (2) time rate for all time that they are required to perform work. All time worked from 12:00 Midnight Saturday to 12:00 Midnight Sunday shall be paid for at the rate of double (2) time on single shift.

NO. 125: Eight (8) hours of work between the hours of 8:00 a.m. and 4:30 p.m. shall constitute a work day. Forty (40) hours within the five (5) days, Monday through Friday inclusive, shall constitute the work week. Starting time may be adjusted not to exceed two (2) hours. Work performed outside of the aforementioned will be paid at the applicable overtime rate. When starting time has been adjusted, all other provisions concerning the work day shall be adjusted accordingly. The overtime rate of pay shall be one and one-half (1½) times the regular rate of wages, other than on Sundays, holidays and from Midnight until 6:00 a.m., which will be paid at double (2) the straight time rate.

**JACKSON COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

NO. 2: All work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day, or the days observed as such, shall be paid at the double time rate of pay.

NO. 4: All work done on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving and Christmas Day shall be paid at the double time rate of pay. If any of the above holidays fall on Sunday, Monday will be observed as the recognized holiday. If any of the above holidays fall on Saturday, Friday will be observed as the recognized holiday and holidays falling on Sunday will be observed on the following Monday.

NO. 7: The following days are assigned days and are recognized as holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day. If a holiday falls on a Sunday, it shall be observed on the following Monday. If a holiday falls on a Saturday, it shall be observed on the preceding Friday. No work shall be performed on Labor Day except in case of jeopardy to work under construction. This is applied to protect Labor Day. When a holiday falls during the normal workweek, Monday through Friday, it shall be counted as eight (8) hours toward the forty (40) hour week. However, no reimbursement for these eight (8) hours is to be paid to the workman unless worked. If workman are required to work the above enumerated holidays or days observed as such, or on Sunday, they shall receive double (2) the regular rate of pay for such work.

NO. 22: All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, Christmas Day, or days locally observed as such, and Sunday shall be recognized as holidays. If a holiday falls on Saturday, Friday shall be observed; if it falls on Sunday, Monday shall be observed. All work performed on holidays shall be paid at the double (2) time rate of pay.

NO. 32: All work performed for the Friday and Saturday following Thanksgiving shall be paid at the time and one-half (1½) rate of pay. All work performed on Sundays, New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day and Christmas Day shall be paid at the double (2) time rate of pay. When one of the above holidays falls on Sunday, the following Monday shall be observed and when one of the above holidays falls on Saturday, the preceding Friday shall be observed.

NO. 33: All work done on New Year's Day, Memorial Day, Fourth of July, Thanksgiving Day and Christmas Day shall be paid at the double time rate of pay. Labor Day shall be paid at the triple (3) time rate of pay. If the holiday falls on Sunday, the following Monday will be observed; if the holiday falls on Saturday, the preceding Friday will be observed.

NO. 39: No work shall be done on the following holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day, and Christmas. Any of these holidays falling on Sunday, the following Monday shall be a holiday, and any of these holidays falling on Saturday, the preceding Friday shall be a holiday.

NO. 49: The following days shall be observed as legal holidays: New Year's Day, Decoration Day, July 4th, Labor Day, Thanksgiving Day, Christmas Day, Employee's birthday and two (2) personal days. The observance of one (1) of the personal days to be limited to the time between December 1 and March 1 of the following year. If any of these holidays fall on Sunday, the following Monday will be observed as the holiday and if any of these holidays fall on Saturday, the preceding Friday will be observed as the holiday. If employees work on any of these holidays they shall be paid time & one-half (1½) their regular rate of pay for all hours worked.

NO. 53: All work done on New Year's Day, Memorial Day, Independence Day, Thanksgiving Day, Christmas Day or days observed as such for these holidays shall be paid at the double (2) time rate of pay. No work shall be performed on Labor Day except in special cases of emergency, and then the rate of pay shall be at three (3) times the regular rate of pay. When a holiday falls on a Sunday, the following Monday shall be observed as the holiday. When a holiday falls on Saturday, the preceding Friday shall be observed as the holiday.

NO. 54: All work performed on New Year's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, the Friday after Thanksgiving Day, and Christmas Day shall be paid at the double (2) time rate of pay. When a holiday falls on Saturday, it shall be observed on Friday. When a holiday falls on Sunday, it shall be observed on Monday.

**JACKSON COUNTY
HOLIDAY SCHEDULE – BUILDING CONSTRUCTION**

NO. 65: Work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day, or days celebrated as such, shall be paid at the double time rate of pay. If the holiday falls on Saturday, it will be observed on Friday; if the holiday falls on Sunday, it will be observed on Monday, and shall be paid for at double (2) the regular straight time rate of pay.

NO. 67: All work performed on New Year's Day, Memorial Day, Christmas Day, Fourth of July and Thanksgiving Day, from midnight to midnight, shall be paid for at the rate of double time (2) the basic rate of pay if required to work in addition to any other pay otherwise required hereunder as holiday pay. Positively no work shall be performed on Labor Day. Martin Luther King's Birthday, Veteran's Day, and the day after Thanksgiving Day shall be considered optional holidays, and if the Employer and employees agree that work will be performed on that day, no premium pay will be required. Should any of the above holidays fall on Saturday, the holiday will be observed on Friday. Should any of the above holidays fall on Sunday, the holiday will be observed on Monday.

NO. 68: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day, Christmas Day, or days observed as such, shall be paid at the rate of double (2) time. When a holiday falls on a Saturday, Friday shall be observed. When a holiday falls on a Sunday, Monday shall be observed. No work shall be performed on the Fourth of July or Labor Day except to save life or property. Where one of the holidays specified falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO. 72: All work performed on New Year's Day, Memorial Day (last Monday in May), Independence Day, Labor Day, Thanksgiving Day and Christmas Day shall be paid for at double (2) the regular straight time rate of pay. Any one of the above listed holidays falling on Sunday shall be observed on the following Monday and paid for at double (2) the regular straight time rate of pay, if worked. Any one of the above listed holidays falling on Saturday shall be observed on the prior Friday and paid for at double (2) the regular straight time rate of pay, if worked. No work shall be performed on Labor Day except in case of emergency.

OCCUPATIONAL TITLE	* Date of Increase	Basic Hourly Rates	Over-Time Schedule	Holiday Schedule	Total Fringe Benefits
Carpenter	6/17	\$37.73	1	17	\$16.85
Cement Mason		\$31.50	3	2	\$16.77
Electrician (Outside-Line Construction\Lineman)		\$42.87	18	24	\$5.25 + 34.5%
Lineman Operator		\$39.62	18	24	\$5.25 + 34.5%
Lineman - Tree Trimmer		\$22.51	31	30	\$5.50 + 28%
Groundman		\$27.63	18	24	\$5.25 + 34.5%
Groundman - Tree Trimmer		\$18.21	31	30	\$5.50 + 28%
Laborer					
General Laborer	6/17	\$29.58	3	2	\$15.23
Skilled Laborer	6/17	\$30.79	3	2	\$15.23
Millwright	6/17	\$37.73	1	17	\$16.85
Operating Engineer					
Group I	6/17	\$36.17	3	2	\$16.84
Group II	6/17	\$35.13	3	2	\$16.84
Group III	6/17	\$35.13	3	2	\$16.84
Group IV	6/17	\$30.66	3	2	\$16.84
Oiler-Driver	6/17	\$34.01	3	2	\$16.84
Pile Driver	6/17	\$37.73	1	17	\$16.85
Traffic Control Service Driver		\$29.14	FED		\$14.77
Truck Driver-Teamster					
Group I	6/17	\$31.49	3	2	\$14.85
Group II	6/17	\$31.49	3	2	\$14.85
Group III	6/17	\$31.49	3	2	\$14.85
Group IV	6/17	\$31.49	3	2	\$14.85

Use Heavy Construction Rates on Highway and Heavy construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(3).

Use Building Construction Rates on Building construction in accordance with the classifications of construction work established in 8 CSR 30-3.040(2).

If a worker is performing work on a heavy construction project within an occupational title that is not listed on the Heavy Construction Rate Sheet, use the rate for that occupational title as shown on the Building Construction Rate sheet.

**JACKSON COUNTY
OVERTIME SCHEDULE - HEAVY CONSTRUCTION**

FED: Minimum requirement per Fair Labor Standards Act means time and one-half (1 ½) shall be paid for all work in excess of forty (40) hours per work week.

NO. 1: Means (8) hours shall constitute the regular work day between time that may be advanced or delayed by two (2) hours on either side of 8:00 AM. The Employer may establish a work week consisting of four (4) days, Monday through Thursday, each day consisting of ten (10) hours straight time. The four (4) tens (10s) must run for a period of at least four (4) days, Monday through Thursday. All work on Friday on a four (4) tens (10) project will be paid at the rate of time and one-half (1½). All work performed on Saturday shall be paid at time and one-half (1½). All work performed on Sundays and recognized holidays must be paid at double (2) time. All work performed prior to or after the regular eight (8) hour work day, or ten (10) hour work day, as described above shall be paid at time and one-half (1½) the regular rate.

NO. 3: Means a regular work week shall consist of not more than forty (40) hours of work and all work performed over and above ten (10) hours per day or forty (40) hours per week shall be paid at the rate of time & one-half (1½). Workers shall receive time and one-half (1½) for all work performed on Sundays and recognized holidays. Double (2) time shall be paid for work performed on Sundays or recognized holidays when and only if any other craft employees of the same employer at work on that same job site are receiving double (2) time pay for that Sunday or Holiday work. A work day is to begin between 6:00 a.m. and 9:00 a.m. at the option of the Employer except when inclement weather or other conditions beyond the reasonable control of the Employer prevents work, in which event, the starting time may be delayed, but not later than 12:00 noon. Where one of the recognized holidays falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO: 18: Eight (8) hours of work between the hours of 8:00 a.m. and 4:30 p.m. shall constitute a work day. Forty (40) hours within the five (5) days, Monday through Friday inclusive, shall constitute the work week. Starting time may be adjusted not to exceed two (2) hours. Work performed outside of the aforementioned will be paid at the applicable overtime rate. When starting time has been adjusted, all other provisions concerning the work day shall be adjusted accordingly. The overtime rate of pay shall be one and one-half (1½) times the regular rate of wages, other than on Sundays, holidays and from Midnight until 6:00 a.m., which will be paid at double (2) the straight time rate.

NO. 31: Means the overtime rate shall be time and one-half the regular rate for work over forty (40) hours per week. Sundays and Holidays shall be paid at double the straight time rate. All employees performing work on affected properties during or following emergencies shall receive the applicable rate of pay for the first sixteen (16) consecutive hours and all hours worked in excess of sixteen (16) consecutive hours shall be paid at double time until broken by an eight (8) hour rest period. Should an employee be called back to work within two hours of his normal quitting time, the previous hours worked shall count toward the above sixteen (16) hour provision.

**JACKSON COUNTY
HOLIDAY SCHEDULE – HEAVY CONSTRUCTION**

NO. 2: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day and Christmas Day, or days observed as such, and Sundays shall be paid at the rate of time and one-half (1½). Double (2) time shall be paid for work on Sundays or recognized holidays when and only if other craft employees of the same employer at work on that same job site are receiving double (2) time pay for that Sunday or holiday work. No work shall be performed on Labor Day, except in case of jeopardy of life or property. This rule is applied to protect Labor Day. When one of the above holidays falls on a Saturday, the preceding Friday shall be observed; when the holiday falls on a Sunday, the following Monday shall be observed. Where one of the specified holidays falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO. 17: All work performed on New Year's Day, Decoration Day (Memorial Day), Independence Day (Fourth of July), Labor Day, Thanksgiving Day, Christmas Day, or days observed as such, shall be paid at the rate of double (2) time. When a holiday falls on a Saturday, Friday shall be observed. When a holiday falls on a Sunday, Monday shall be observed. No work shall be performed on the Fourth of July or Labor Day except to save life or property. Where one of the holidays specified falls or is observed during the work week, then all work performed over and above thirty-two (32) hours in that week shall be paid at the rate of time and one-half (1½).

NO. 24: Work performed on New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day, or days celebrated as such, shall be paid at the double time rate of pay. If the holiday falls on Saturday, it will be observed on Friday; if the holiday falls on Sunday, it will be observed on Monday, and shall be paid for at double (2) the regular straight time rate of pay.

NO. 30: All work performed on New Year's Day, Decoration Day, Fourth of July, Labor Day, Christmas Day, Thanksgiving Day and Day after Thanksgiving or days celebrated for the same.