AGREEMENT BETWEEN
DOAN CONSTRUCTION COMPANY
AND THE ANN ARBOR DDA
FOR CONSTRUCTION SERVICES

The Ann Arbor DDA, a Michigan municipal corporation, having its offices at 150 S. Fifth Ave.,
Ann Arbor, Michigan 48104 ("DDA"), and Doan Construction Company ("Contractor"), a
Michigan Corporation with its address at 3670 Carpenter Road, Ypsilanti, Michigan, 48197 agree as
follows on this 19th day of March, 2018.

The Contractor agrees to provide services to the DDA under the following terms and conditions:

I. DEFINITIONS

Contract Administrator means Susan Pollay, acting personally or through any appropriate staff
member.

Project means: DDA FY2018 Sidewalk Amenity Zone Repair Project.

II. DURATION

This Agreement shall become effective on March 19, 2018. The entire work for this
Contract shall be completed prior to June 30, 2018.

III. SERVICES

A. The Contractor agrees to furnish all of the materials, equipment and labor necessary;
and to abide by all the duties and responsibilities applicable to it for the Project in
accordance with the requirements and provisions of the following documents,
including all written modifications incorporated into any of the documents, which are
incorporated as part of this Contract:

- This Contract
- Specifications included in the City of Ann Arbor Contract "2018 Ramp &
  Sidewalk Repair Project, Bid No. 4522"
- Exhibit A, Exhibit B, and Exhibit C

The DDA retains the right to make changes to the quantities of service within the general
scope of the Agreement at any time by a written order. If the changes add to or
deduct from the extent of the services, the contract sum shall be adjusted
accordingly. All such changes shall be executed under the conditions of the
original Agreement. The intention of the documents is to include all labor and
materials, equipment and transportation necessary for the proper execution of the
Project. Materials or work described in words that so applied have a well-known
technical or trade meaning have the meaning of those recognized standards.
B. Quality of Services under this Agreement shall be of the level of professional quality performed by experts regularly rendering this type of service. Determination of acceptable quality shall be made solely by the Contract Administrator.

C. The Contractor shall perform its Services for the Project in compliance with all statutory, regulatory and contractual requirements now or hereafter in effect as may be applicable to the rights and obligations set forth in the Agreement.

D. The Contractor may rely upon the accuracy of reports and surveys provided to it by the DDA except when defects should have been apparent to a reasonably competent professional or when it has actual notice of any defects in the reports and surveys.

IV. COMPENSATION OF CONTRACTOR

The Contractor shall be paid on the basis of the bid price in the manner set forth in the Exhibit B. The total fee to be paid the Contractor for the services shall not exceed $200,014.75. Payment shall be made within 30 days of acceptance of the work by the Contract Administrator. It is understood and agreed between the parties that the compensation stated above is inclusive of any and all remuneration to which the Contractor may be entitled.

The Contractor shall be paid in the manner set forth in Exhibit B. Payment shall be made monthly, unless another payment term is specified in Exhibit B, following receipt of invoices submitted by the Contractor, and approved by the Contract Administrator.

B. The Contractor will be compensated for Services performed in addition to the Services described in Section III, only when those additional Services have received prior written approval of the Contract Administrator. Compensation will be on the basis of reasonable time spent and reasonable quantities of materials used, according to the schedule of rates in Exhibit B. The Contract Administrator shall be the sole arbitrator of what shall be considered “reasonable” under this provision.

B. The Contractor shall keep complete records of time spent and materials used on the Project so that the DDA may verify invoices submitted by the Contractor. Such records shall be made available to the DDA upon request and submitted in summary form with each invoice.

V. INSURANCE/INDEMNIFICATION
A. The Contractor shall procure and maintain during the life of this contract, including the guarantee period and during any warranty work, such insurance policies, including those set forth below, as will protect itself, the City and the Ann Arbor DDA, and their officers, employees, and agents from all claims for bodily injuries, death or property damage which may arise under this contract; whether the acts were made by the Contractor or by any subcontractor or anyone employed by them directly or indirectly. The following insurance policies are required:

2. Worker's Compensation Insurance in accordance with all applicable state and federal statutes. Further, Employers Liability Coverage shall be obtained in the following minimum amounts:

Bodily Injury by Accident - $500,000 each accident
Bodily Injury by Disease - $500,000 each employee
Bodily Injury by Disease - $500,000 each policy limit

3. Commercial General Liability Insurance equivalent to, as a minimum, Insurance Services Office form CG 00 01 07 98. The Ann Arbor DDA and City of Ann Arbor shall be added as additional insured. There shall be no added exclusions or limiting endorsements including, but not limited to: Products and Completed Operations, Explosion, Collapse and Underground Coverage or Pollution. Further, the following minimum limits of liability are required:

$1,000,000 Each occurrence as respect Bodily Injury Liability or Property Damage Liability, or both combined
$2,000,000 Per Job General Aggregate
$1,000,000 Personal and Advertising Injury
$2,000,000 Products and Completed Operations Aggregate

4. Motor Vehicle Liability Insurance, including Michigan No-Fault Coverages, equivalent to, as a minimum, Insurance Services Office form CA 00 01 07 97. Coverage shall include all owned vehicles, all non-owned vehicles and all hired vehicles. Further, the limits of liability shall be $1,000,000 for each occurrence as respects Bodily Injury Liability or Property Damage Liability, or both combined.

5. Umbrella/Excess Liability Insurance shall be provided to apply in excess of the Commercial General Liability, Employers Liability and the Motor Vehicle coverage enumerated above, for each occurrence and for aggregate in the amount of $1,000,000.

B. Insurance required under V.A.3 and V.A.4 of this contract shall be considered
primary as respects any other valid or collectible insurance that the City or DDA may possess, including any self-insured retentions the City or DDA may have; and any other insurance the City or DDA does possess shall be considered excess insurance only and shall not be required to contribute with this insurance. Further, the Contractor agrees to waive any right of recovery by its insurer against the City or DDA.

C. In the case of all contracts involving on-site work, the Contractor shall provide to the DDA, before the commencement of any work under this contract, documentation demonstrating it has obtained the above mentioned policies. Documentation must provide and demonstrate an unconditional 30 day written notice of cancellation in favor of the Ann Arbor DDA. Further, the documentation must explicitly state the following: (a) the policy number; name of insurance company; name and address of the agent or authorized representative; name and address of insured; project name; policy expiration date; and specific coverage amounts; (b) any deductibles or self-insured retentions which shall be approved by the DDA, in its sole discretion; (c) that the policy conforms to the requirements specified. An original certificate of insurance may be provided as an initial indication of the required insurance, provided that no later than 21 calendar days after commencement of any work the Contractor supplies a copy of the endorsements required on the policies. Upon request, the Contractor shall provide within 30 days a copy of the policy(ies) to the DDA. If any of the above coverages expire by their terms during the term of this contract, the Contractor shall deliver proof of renewal and/or new policies to the Administering Service Area/Unit at least ten days prior to the expiration date.

D. Any insurance provider of Contractor shall be admitted and authorized to do business in the State of Michigan and shall carry and maintain a minimum rating assigned by A.M. Best & Company’s Key Rating Guide of “A-” Overall and a minimum Financial Size Category of “V”. Insurance policies and certificates issued by non-admitted insurance companies are not acceptable unless approved in writing by the DDA.

E. To the fullest extent permitted by law, for any loss not covered by insurance under this contract, the Contractor shall indemnify, defend and hold the The City, DDA, its officers, employees and agents harmless from all suits, claims, judgments and expenses including attorney's fees resulting or alleged to result, to its proportionate extent, from any negligent, grossly negligent, reckless and/or intentional wrongful or tortious acts or omissions by the Contractor or its employees and agents occurring in the performance of this Agreement.

VI. COMPLIANCE REQUIREMENTS

A. Nondiscrimination. The Contractor agrees to comply with the nondiscrimination provisions of Chapter 112 of the Ann Arbor City Code.
C. **Living Wage.** The Contractor agrees to comply with the living wage provisions of Chapter 23 of the Ann Arbor City Code.

**VII. WARRANTIES BY THE CONTRACTOR**

A. The Contractor warrants that the quality of its Services under this Agreement shall conform to the level of professional quality performed by businesses regularly rendering this type of service. The Contractor warrants that the work performed shall be free of defects and guaranteed for a period of one year.

B. The Contractor warrants that it has all the skills, experience, and professional licenses necessary to perform the Services specified in this Agreement.

C. The Contractor warrants that it has available, or will engage, at its own expense, sufficient trained employees to provide the Services specified in this Agreement.

D. The Contractor warrants that it is not, and shall not become overdue or in default to the DDA for any contract, debt, or any other obligation to the DDA.

**VIII. TERMINATION OF AGREEMENT**

A. If either party is in breach of this Agreement for a period of fifteen (15) days following receipt of notice from the non-breaching party with respect to a breach, the non-breaching party may pursue any remedies available to it against the breaching party under applicable law, including but not limited to, the right to terminate this Agreement without further notice. Breach under the terms of this Agreement shall include but not be limited to the failure to deliver service on time, poor quality materials or workmanship, failure to follow specifications identified in Article III above, or the unauthorized substitution of articles other than those quoted and specified in the bid documents.

B. The DDA may terminate this Agreement if it decides not to proceed with the Project by notice pursuant to Article XII. If the Project is terminated for reasons other than the breach of the Agreement by the Contractor, the Contractor shall be compensated for reasonable time spent and reasonable quantities of materials used prior to notification of termination.

C. Contractor acknowledges that, if this Agreement extends for several fiscal years, continuation of this Agreement is subject to appropriation of funds for this Project. If funds to enable the DDA to effect continued payment under this Agreement are not appropriated or otherwise made available, the DDA shall have the right to terminate this Agreement without penalty at the end of the last period for which funds have been appropriated or otherwise made available by giving written notice of termination to the Contractor. The Contract Administrator shall
give the Contractor written notice of such non-appropriation within thirty (30) days after it receives notice of such non-appropriation.

D. The remedies provided in this Agreement will be cumulative, and the assertion by a party of any right or remedy will not preclude the assertion by such party of any other rights or the seeking of any other remedies.

IX. OBLIGATIONS OF THE DDA

A. The DDA shall notify the Contractor of any defects in the Services of which the Contract Administrator has actual notice.

X. ASSIGNMENT

A. The Contractor shall not subcontract or assign any portion of any right or obligation under this Agreement without prior written consent from the DDA. Notwithstanding any consent by the DDA to any assignment, Contractor shall at all times remain bound to all warranties, certifications, indemnifications, promises and performances, however described, as are required of it under the Agreement unless specifically released from the requirement, in writing, by the DDA.

B. The Contractor shall retain the right to pledge payment(s) due and payable under this Agreement to third parties.

XI. NOTICE

All notices and submissions required under this Agreement shall be by personal delivery or by first-class mail, postage prepaid, to the address stated in this Agreement or such other address as either party may designate by prior written notice to the other. Notice shall be considered delivered under this Agreement when personally delivered to the Contract Administrator or placed in the U.S. mail, postage prepaid to the Administering Service Area/Unit, care of the Contract Administrator.

XII. CHOICE OF LAW

This Agreement will be governed and controlled in all respects by the laws of the State of Michigan, including interpretation, enforceability, validity and construction. The parties submit to the jurisdiction and venue of the Circuit Court for Washtenaw County, State of Michigan, or, if original jurisdiction can be established, the United States District Court for the Eastern District of Michigan, Southern Division, with respect to any action arising, directly or indirectly, out of this Agreement or the performance or breach of this Agreement. The parties stipulate that the venues referenced in this Agreement are convenient and waive any claim of non-convenience.
XIV. CONFLICT OF INTEREST

Contractor certifies it has no financial interest in the Services to be provided under this Agreement other than the compensation specified herein. Contractor further certifies that it presently has no personal or financial interest, and shall not acquire any such interest, direct or indirect, which would conflict in any manner with its performance of the Services under this Agreement.

XV. SEVERABILITY OF PROVISIONS

Whenever possible, each provision of this Agreement will be interpreted in a manner as to be effective and valid under applicable law. However, if any provision of this Agreement or the application of any provision to any party or circumstance will be prohibited by or invalid under applicable law, that provision will be ineffective to the extent of the prohibition or invalidity without invalidating the remainder of the provisions of this Agreement or the application of the provision to other parties and circumstances.

XVI. EXTENT OF AGREEMENT

This Agreement, together with any affixed exhibits, schedules or other documentation, constitutes the entire understanding between the DDA and the Contractor with respect to the subject matter of the Agreement and it supersedes, unless otherwise incorporated by reference herein, all prior representations, negotiations, agreements or understandings whether written or oral. Neither party has relied on any prior representations, of any kind or nature, in entering into this Agreement. This Agreement may be altered, amended or modified only by written amendment signed by the Contractor and the DDA.

FOR CONTRACTOR

By

Authorized Representative

FOR THE ANN ARBOR DDA

By

Susan Pollay, Executive Director
EXHIBIT A - SCOPE OF WORK

The goal of this project is to repair or improve the sidewalk amenity zone within spot locations throughout the Ann Arbor Downtown Development Authority (DDA). The method of repairs to be made through this program will mimic the City of Ann Arbor’s Ramp and Sidewalk Repair Program.

Known repair/improvement locations are included in Appendix A. Additional locations within the DDA district are expected to be added during the contract period. These additional locations are reflected in the total item quantities of Exhibit B.

SPECIFICATIONS - ALL OPERATIONS

The Contractor(s) will perform the work with due care taking precautions against injury to persons, damage to public/private property and interference with vehicular or pedestrian traffic. The Contractor(s) shall take necessary precautions to ensure the safety of all persons engaged in the work of this Contract.

All equipment to be used and all work to be performed must be in full compliance with provisions outlined in all applicable industry standards and regulations. Equipment must not be left unsecured at any time. All equipment and tools must be stored in such manner to ensure that residents and the public do not have access to them.

The Contractor shall provide notification to the DDA Representative and personnel directly affected by the work of any potentially dangerous situations. In the event of an emergency affecting the safety of persons or property, the Contractor shall act immediately to prevent threatened loss or damage. The Contractor shall immediately stop any activity or operation affecting safety until the situation(s) is corrected.

Work shall be in accordance with the Specifications of the City of Ann Arbor’s 2018 Ramp and Sidewalk Repair Project – Bid No. 4522.

Where work is conducted in streets or other public thoroughfares, the Contractor(s) shall so plan and schedule work as to cause as little interference as possible with general public traffic, both vehicular and pedestrian. Street surfaces shall be maintained and kept clean. Access to Fire, Police, ambulance and other emergency vehicles shall be maintained at all times.

Work on State Trunklines (Huron St. and Main Street) must occur between 9 a.m. and 3 p.m.; work is not permitted on these roads outside of these times. Additional schedule details should be coordinated with the DDA, to limit impact to downtown businesses and events.

Blocking of public streets shall not be permitted unless prior arrangements have been made by submitting an Application for Traffic Detour or Lane Closure for
each job. The form is available online at the city website www.a2gov.org; Government; Public Services; Project Management; Private Development; Working in the Right-of-Way.

Whenever working in the street the Contractor must provide the required traffic control signage and flaggers as described in the Michigan Manual of Uniform Traffic Control Devices.

Upon Contractor request, parking meter bags shall be supplied by the DDA. The Contractor shall provide at least 2 working days notice of the need for each parking meter bag.

The DDA shall inspect work periodically to insure that all specifications are adhered to.

Payment; Retainage

A. The Contractor shall be paid on the basis of the bid prices in Exhibit B. The total fee to be paid the Contractor for the services will be a not to exceed dollar amount. The Contractor shall submit each month an invoice covering work performed for which it believes payment, under the Contract terms, is due.

The submission shall be to the Ann Arbor DDA’s Contract Administrator. The Contract Administrator will, within 21 days following submission of the invoice, prepare a certificate for payment for the work in an amount to be determined by the Contractor Administrator as fairly representing the acceptable work performed during the period covered by the Contractor's invoice. Following the receipt of the Contract Administrator’s Certificate, and subject to the DDA retaining a percentage of the estimate as provided in this paragraph, the DDA will make payment to the Contractor as soon as feasible, which is anticipated will be within 30 days. To insure the proper performance of this Contract, the DDA will retain a percentage of the estimate in the same manner as is done for construction contracts under Act 524, Public Acts of 1980. If the DDA fails to retain a percentage from one or more of the estimates it pays, the DDA reserves the right to retain the amount from a subsequent payment. Final payment shall be made after the close of the one-year guarantee period. In no case shall the final payment be made until the Contractor has complied with all requirements set forth and the DDA and City have made final inspection of the entire work and is satisfied that the entire work is properly and satisfactorily complete per plans, specifications, and ready for DDA acceptance.

B. If the Contract Administrator decides it is inexpedient to correct work that has been damaged or that was not done in accordance with the Contract, an equitable deduction from the Contract price shall be made.
C. The Contractor shall promptly remove from the premises all materials determined by the Contract Administrator as failing to meet Contract requirements and the Contractor shall promptly replace and re-execute the work in accordance with the Contract and without expense to the DDA.

D. The inspection or lack of inspection of any material or work pertaining to this Contract shall not relieve the Contractor of its obligation to fulfill this Contract and defective work shall be made good. Unsuitable materials may be rejected by the Contract Administrator notwithstanding that the work has been previously overlooked by the Contract Administrator and accepted or estimated for payment or paid for. If the work or any part shall be found defective at any time before the final acceptance, the Contractor shall forthwith make good the defect in a manner satisfactory to the Contract Administrator. The judgment and the decision of the Contract Administrator as to whether the materials supplied and the work done under this Contract comply with the requirements of the Contract shall be conclusive and final.

Final Inspection and Acceptance

i. At the end of the guarantee period for each project and within 14 days after receipt of written notice from the Contractor that the work is ready for final inspection and acceptance, the DDA and City shall inspect all guaranteed work for final acceptance. When the Contract Administrator finds the work acceptable under the Contract and the Contract fully performed, including completion and re-inspection of all repairs and replacements necessary in the judgment of the Contract Administrator, the Contract Administrator will promptly sign and issue a final certificate stating that the work required by this Contract has been completed and is accepted by the DDA under the terms and conditions of the Contract. Subject to the requirements below, the entire balance found to be due the Contractor, including the retained percentage shall be paid to the Contractor by the DDA within 30 days after the date of the final certificate.

In case the Affidavit or consent is not furnished, the DDA may retain out of any amount due the Contractor, sums sufficient to cover all lienable claims.

The making and acceptance of the final payment shall constitute a waiver of all claims by the DDA except those arising from:

(1) unsettled liens;
(2) faulty work appearing within 12 months after final payment;

The making and acceptance of the final payment shall also constitute a waiver of all claims by the Contractor, except those previously made and still unsettled.
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<tr>
<th>Description</th>
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<th>Quantity</th>
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<tr>
<td>217 Remove Concrete Sidewalk or Drive - Any Thickness</td>
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<td>Elect Relocate/Conduit/Etc</td>
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Kingsley Loading Zone
Estimated Quantities per 9/11/2017 design
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<td>Elect Relocate/Conduit/Etc</td>
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<td>250 Adjust Structure Cover</td>
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## Exhibit B - Page 1

**Project:** DDA FY2018 Sidewalk Amenity Zone Repair Project

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<th>Item</th>
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$200,014.75
EXHIBIT C

DETAILED SPECIFICATION
FOR
ITEM #280 – TIME & MATERIALS ALLOWANCE

DESCRIPTION
This work shall consist of patching defects in sidewalks (typically over vaults), brick repair, and other isolated smaller quantity repair work for which the existing unit prices do not cover the Contractor’s costs.

Work to be performed under this item shall be determined by prior agreement between the DDA and the Contractor.

MATERIALS & CONSTRUCTION METHODS
Materials and Construct Methods shall be in accordance with the Specifications included in the City of Ann Arbor Contract “2016 Ramp & Sidewalk Repair Project, Bid No. 4417” and the attached DDA Standard Details.

Patching shall be per Item 280 – Sidewalk Patching Allowance Specification included in the City of Ann Arbor Contract “2016 Ramp & Sidewalk Repair Project, Bid No. 4417”

MEASUREMENT AND PAYMENT
The completed work of Time & Materials Allowance will be paid on a time and materials basis for direct labor, equipment and materials directly attributable to the repairs made under the direction of the DDA. Costs attributable to Project Supervision, General Conditions, Traffic Control, or any other contract item shall not be submitted for reimbursement as Time & Materials Allowance. The contractor shall submit to the Engineer a detailed accounting of costs within thirty days of completing each repair location.

<table>
<thead>
<tr>
<th>PAY ITEM</th>
<th>PAY UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time &amp; Materials Allowance</td>
<td>Dollars</td>
</tr>
</tbody>
</table>
NOTES:
1. REFER TO SITE PLAN FOR PROJECT SPECIFIC TYPES & LIMITS OF SURFACE MATERIALS.
2. CROSS SLOPES IN AMENITIES ZONE SHALL NOT EXCEED 5% WITHOUT APPROVAL OF ENGINEER.

REFER TO "DDA CONCRETE SIDEWALK" DETAIL
REPEAT TO "DDA SIDEWALK PAVERS" OR "DDA PERMEABLE PAVER TREATMENT" DETAILS

BUILDING FACE
RIGHT-OF-WAY LINE
FRONTAGE ZONE WIDTH VARIES
WALKWAY ZONE WIDTH VARIES, 5'-0" MIN.
AMENITIES ZONE WIDTH VARIES
EXPANSION JOINT
CONTRACTION JOINT AT R.O.W.
SLOPE, 2% MAX.
SLOPE, 5% MAX.

COMMUNICATIONS OR ELECTRICAL CONDUIT - LOCATE OUTSIDE AMENITIES ZONE.

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DDA SIDEWALK CROSS SECTION
DR. SGJUR CH. CEC DRAWING NO. SD-DDA-1A
SCALE N.T.S. DATE 10/28/15
1. DRY LAID PAVERS MUST BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS

2. A MOCK-UP OF PAVERS SHALL BE BUILT TO ESTABLISH THE ACTUAL WIDTH OF PAVER BAND TO AVOID SLIVERS OF PAVERS; APPROVAL BY ENGINEER OR DDA, AS APPROPRIATE.

3. ALL PAVERS SHALL BE RATED FOR HEAVY VEHICULAR TRAFFIC
LIGHT BROOM FINISH

CONCRETE, GRADE P1 OR PN-C AS SPECIFIED BY ENGINEER WITH FIBER MESH REINFORCEMENT

CITY OF ANN ARBOR, CLASS II. COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS

COMPACT EXISTING SUBGRADE, TO 95% OF THE MATERIAL'S DRY DENSITY

NOTES:

1. CONTRACTOR TO CONSTRUCT ALL SIDEWALKS, SIDEWALK RAMPS, CURBS, AND ALL OTHER CONCRETE ITEMS WITHIN A.D.A.A.G. COMPLIANCE.

2. ALL SIDEWALK CURB RAMPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH MDOT STANDARD DETAIL R-28-I.
NOTES:
1. DRY LAID PAVERS MUST BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
2. A MOCK-UP OF PAVERS SHALL BE BUILT TO ESTABLISH THE ACTUAL WIDTH OF PAVER BAND TO AVOID SLIVERS OF PAVERS; APPROVAL BY DDA
3. ALL PAVERS SHALL BE RATED FOR HEAVY VEHICULAR TRAFFIC

CONCRETE, GRADE P1 OR PN-C AS SPECIFIED BY ENGINEER
NON-WOVEN GEOTEXTILE FABRIC
FINE AGGREGATE BEDDING PER MANUFACTURER'S RECOMMENDATIONS
JOINTS FILLED WITH FINE AGGREGATE PER MANUFACTURER'S RECOMMENDATIONS
UNIT PAVERS

SLOPE, 5% MAX.

2" DIA. WEEPS THROUGH CONCRETE, FILLED WITH CITY OF ANN ARBOR, CLASS II SPACED AT MINIMUM OF 1 WEEP PER 9 S.F. OF PAVING
CITY OF ANN ARBOR, CLASS II, COMPACT PER CITY OF ANN ARBOR STANDARD SPECIFICATIONS
COMPACT EXISTING SUBGRADE, TO 95% OF THE MATERIAL'S DRY DENSITY

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DDA SIDEWALK PAVERS
DR. SGJIR CH. CEC DRAWING NO.
SCALE N.T.S. DATE 10/28/15
SD-DDA-3
GENERAL NOTES:

1. DESIGN MAY UTILIZE TOOLED OR SAW-CUT CONTRACTION JOINT. PLANS MUST INDICATE SELECTION OF JOINT TYPE. PROJECT MUST HAVE EITHER JOINT TYPE, BUT NOT BOTH.

2. CONTRACTOR TO PROVIDE MOCX UP OF PAVING FINISH COLOR AND JOINTING FOR CITY APPROVAL PRIOR TO INSTALLING SIDEWALKS

NOTE:

1. TOOLED CONTRACTION TO HAVE 1/2" RADIUS AT SURFACE OF JOINT

NOTE:

1. CHAMFERED CONTRACTION JOINT MAY BE SAWCUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PREVENT RAVELING OF THE CONCRETE AT THE EDGES.

2. A FORM OR GUIDE IS REQUIRED TO BE USED ON ALL CHAMFERED CONTRACTION JOINTS THAT ARE ARCS. ARC JOINTS ARE TO BE SAWCUT TO A TRUE EVEN CONTINUOUS RADIUS WITHOUT IRREGULARITIES.

TOOLED CONTRACTION JOINT

SAWCUT CONTRACTION JOINT

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DDA SIDEWALK - CONTRACTION JOINT

DR. SGAR CH. CEC DRAWING NO.

SCALE N.T.S. DATE 10/28/15 SD-DDA-6
CONCRETE TO BUILDING FACE, FOUNDATION, OR STRUCTURE

CONCRETE TO CONCRETE SIDEWALK

NOTE:
1. ALL EXPANSION JOINTS TO BE SEALED IN DDA DISTRICT
2. DOWELED SEALED EXPANSION JOINTS INCLUDING BARS AND SLEEVES ARE INCIDENTAL TO PAVEMENT PAY ITEMS.
BICYCLE HOOP NOTES:
1. TO BE USED ONLY FOR DDA SIDEWALK PAVERS OR DDA PERMEABLE PAVER TREATMENTS
2. LOCATE AND GROUP BICYCLE HOOPS IN THE AMENITY ZONE.
3. BIKE HOOPS TO BE A MINIMUM OF 2'-10" FROM BACK OF CURB WHEN PERPENDICULAR TO CURB, AND 2'-0" WHEN PARALLEL.
4. REFER TO ANN ARBOR DOWNTOWN STREET DESIGN MANUAL FOR ADDITIONAL LAYOUT GUIDELINES.

- BICYCLE HOOP: STAINLESS STEEL (OR GALVANIZED AND POWDER COATED) PIPE 2" O.D. SET PLUMB
- REFER TO "DDA SIDEWALK PAVERS" DETAIL, OR "DDA PERMEABLE PAVER TREATMENT" DETAIL
- CUT AND Scribe Pavers to Follow Edge of Hoop
- 3/4" x 6" steel anchor rod, typ.
- 8"Ø cast-in-place concrete footing

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DDA BIKE HOOP - EMBEDDED

DR. SGJUR  CH. CEC  DRAWING NO.
 SCALE N.T.S.  DATE 10/28/15  SD-DDA-8
BICYCLE HOOP NOTES:
1. TO BE USED ONLY FOR DDA CONCRETE SIDEWALK SURFACES
2. LOCATE AND GROUP BICYCLE HOOPS IN THE AMENITY ZONE.
3. BIKE HOOPS TO BE MINIMUM OF 2'-10" FROM BACK OF CURB WHEN PERPENDICULAR TO CURB, AND 2'-0" WHEN PARALLEL.
4. REFER TO ANN ARBOR DOWNTOWN STREET DESIGN MANUAL FOR ADDITIONAL LAYOUT GUIDELINES.
NOTES:

1. CONTRACTOR TO EXCAVATE ENTIRE PLANTING AREA. EXISTING SOIL MATERIAL TO BE DISPOSED OF OFF-SITE AT NO ADDITIONAL COST TO OWNER.

2. DO NOT PRUNE TERMINAL LEADER OR BRANCH TIPS. PRUNE AWAY DEAD AND BROKEN BRANCHES ONLY.

3. REMOVE TOP 3/4 TO 1/2 BURLAP, TWINE, ROPE, OVAL WIRE BASKET.

4. REMOVE TEMPORARY WATER BAGS FOLLOWING END OF WARRANTY PERIOD AND DURING WINTER.

5. INSTALL TREE GRATE AND FRAME PER MANUFACTURER'S RECOMMENDATIONS.

- TREE GRATE MINIMUM SURFACE DIMENSION OF 18 SQ. FT. MATERIALS AS SPECIFIED IN THE DOWNTOWN STREET DESIGN MANUAL AND APPROVED BY ENGINEER OR URBAN FORESTRY AND NATURAL RESOURCES COORDINATOR, AS APPROPRIATE.

- CAST-IN-PLACE FRAME SUPPLIED WITH TREE GRATE, ANCHORED IN CONCRETE

- CONCRETE PAVEMENT

- MORTAR

- TREE PLANTER

- TREE

- Curb & Gutter

- Plant Mix

- Place Plant Mix on Sand Base and Compact Prior to Tree Installation

- See Frame Installation Detail

- Refer to "DDA Concrete Side/Path" Detail

- City of Ann Arbor, Class II Compact Per City of Ann Arbor Standard Specifications

- Structural Soil, Extend as Required to Meet Soil Volume Requirements in Ann Arbor Downtown Street Design Manual

- 6" Dia. Perforated HDPE Underdrain - Slope at Min. of 0.5% Towards Outfall - Increase Depth of Underdrain Aggregate as Needed to Accommodate Pipe Slope. Connect Underdrain to Inlet or Inlet Junction Chamber. Final Location as Directed by Engineer.
BARRIER CURB AND GUTTER

VARY 5'-0" MIN.

1'-0"
AMENITIES ZONE
VARY 5'-0" MIN

STRUCTURAL SOIL, EXTEND AS REQUIRED UNDERNEATH AMENITY ZONE SURFACE MATERIAL TO MEET SOIL VOLUME REQUIREMENT IN ANN ARBOR DOWNTOWN STREET DESIGN MANUAL

REFER TO DDA TREE PIT SECTION PERPENDICULAR TO CURB