PLACEMENT

FINISH GRADE OF NEW TREE GRATE CONCRETE SIDEWALK TREE GRATE MANUFACTURE'S STANDARD STEEL ANGLE FRAME **#3 REBAR EMBEDMENT STUDS** WELDED TO FRAME, SPACING PER MANUFACTURER (2) 3/8"-16 X 1 1/4" SS HX-HD BOLTS W/NUTS AND SECTION A-A SECTION B-B WASHERS, BY CONTRACTOR 145 1/4 В В TEMPORARY SUPPORTS TAC-WELDED FOR SHIPPING & STORAGE ONLY. REMOVE AFTER INSTALLATION AS RECOMMEDED BY MANUFACTURER. FRAME PLAN 24" NOM. 48" NOM. 48" NOM. 24" NOM. -LIGHT WELL COVER ACCESS COVER CLOSEST TO TREE GRATE TREE GRATE STREET SHALL SERVE AS ACCESS PLAN POINT OF WATERING TUBE INSIDE <sup>I</sup>∕8 INCH VINYL COATED CABLE, THE TREE WELL. SEE NOTES. 3 FT. LENGTH, CRIMP ENDS -1"X1"/2"X"/4" STEEL TAB WITH ¹∕₂" DRILLED HOLE NOTES: TREE GRATE: SUNRAY TREE GRATE, MODEL 8854 **ADDITIONAL** BY EAST JORDAN IRON WORKS. COVER SUPPORT - ACCESS PORTS: ONE SECTION C-C TABS, MATERIAL:GREY IRON COORDINATE - FINISH: NATURAL / UNFINISHED MFR SUPPLIED WITH MFR. LIGHT WELL - TREE OPENING: 18" ROUND - ASSEMBLY SIZE: 48"x144" COVER MFR SUPPLIED - MAXIMUM OPENING SIZE: 1/4 INCH FASTENING TAB, ADA COMPLIANT - CERTIFICATIONS: ASTM A48 LIGHT WELL COVER LIGHT WELL PLAN OPENING 2. TREE GRATE FRAME: GRATE MANUFACTURER'S STANDARD FRAME (48"X144"), RECTANGULAR. - TYPE: EMBEDDED - MATERIAL: STEEL (ASTM A36) - FINISH: BY MANUFACTURER'S STANDARD FLAT BLACK PAINTED FINISH

INSTALL GRATE AND FRAME IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND DETAILS. PROVIDE

INDICATED BY THE ENGINEER. TURN OVER FACTORY SUPPLIED LIGHT COVER SET SCREWS TO OWNER. COVERS SHALL BE

AS SHOWN. WELD CABLE ATTACHMENT TABS ON UNDERSIDE OF LIGHT WELL COVER AND TREE GRATE. TETHER LIGHT

ABLE TO SUPPORT WEIGHT WHEN NOT SECURED. COORDINATE ADDITIONAL SUPPORT TAB AS REQUIRED WITH MANUFACTURER

TREE GRATE AND FRAME

SPREADERS OR ADEQUATE STAKING OF FORM WORK TO PREVENT THE FRAME FROM DEFORMING DURING CONCRETE

LIGHT WELLS SERVING WATERING-AERATION PIPE BELOW SHALL NOT BE FASTENED TO GRATE, UNLESS OTHERWISE

WELL COVER TO TREE GRATE ATTACHMENT TABS WITH CABLE AS SHOWN.

LANDSCAPE MAINTENANCE SCHEDULE PERFORM THE FOLLOWING MAINTENANCE TASKS

_ [	TASK	FREQUENCY	J	F	М	A	М	J	J .	J	Α	S	0	N	١	D	SCOPE OF WORK
1	PRUNING	AS NEEDED, INSPECT WEEKLY			<b>/</b>	<b>\</b>	/	/	<b>'</b> \	/	<u>/</u>	<b>/</b>	<b>/</b>	<u> </u>			PRUNE ONLY DEAD OR BROKEN BRANCHES. DO NOT USE PRUNING PAINT. (2)
	SUPPLEMENTAL WATERING	WEEKLY.			<b>/</b>	<b>\</b>	/		<b>/</b> \	/	<b>/</b>	<b>/</b>	<b>/</b>	<b>,</b>			SEE SUPPLEMENTAL WATERING REQUIRMENTS ON THIS SHEET
	ADJUSTING PLANTS	AS NEEDED, INSPECT WEEKLY			<b>/</b>	<b>\</b>	/	/	<b>'</b> \	/	<u>/</u>	<b>/</b>	<b>/</b>	1			ADJUST PLANTINGS THAT ARE NOT PLUMB OR HAVE SHIFTED.
	PLANT REPLACEMENTS	ONCE PER GROWING SEASON, AS NEEDED.			<b>/</b>	<b>\</b>	/						<b>/</b>	<b>'</b>	1	/	REPLACE DISEASED, DYING OR DEAD MATERIALS AT NO ADDITIONAL COST. (1)
	DEBRIS REMOVAL	AS NEEDED, INSPECT WEEKLY			<b>/</b>	<b>\</b>	/	/	<b>'</b> \	/	<u>/</u>	<b>/</b>	<b>/</b>	1			REMOVE LITTER ACCUMULATED IN OR ADJACENT TO TREE WELLS.
	PLANT BRACING AND TREE WRAP  AS NEEDED, INSPECT WEEKLY					ADJUST OR REPLACE ROOTBALL STABILIZER AS REQUIRED. REPAIR TREE WRAP AS REQUIRED. (3)											
	INSECT, DISEASE AND ANIMAL CONTROL	AS NEEDED, INSPECT WEEKLY			<b>/</b>	<b>✓</b>	<b>/</b>	<b>/</b>	<b>'</b> \	/	<b>✓</b>	<b>/</b>	<b>'</b>	<u> </u>			SPRAY FOR INSECT AND FUNGAL INFESTATIONS. PESTICIDE AND FUNGICIDE APPPLICATIONS SHALL BE BY LICENSED APPLICATORS.

(1) ALL PLANT MATERIALS DETERMINED TO BE UNACCEPTABLE BY THE ENGINEER BY THE END OF THE ESTABLISHMENT PERIOD SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER. REPLACE PLANTS IN ACCORDANCE WITH SPECIFIED SEASONAL LIMITATIONS (MARCH 1 TO MAY 15 AND OCTOBER 1 UNTIL GROUND FREEZES).

(2) REMOVE ONLY DEAD, DYING OR BROKEN BRANCHES. DO NOT PRUNE FOR SHAPE UNLESS DIRECTED BY THE ENGINEER AND THEN ONLY ACCORDING TO HORTICULTURAL BEST PRACTICES AND ANSI A 300. DO NOT CUT TREE LEADERS. DO NOT APPLY PRUNING PAINT TO WOUNDS.

(3) ROOTBALL STABILIZER MAY REMAIN IN PLACE AT THE END OF ESTABLISHMENT PERIOD. REMOVE ALL TREE WRAP AT THE END OF ESTABLISHMENT PERIOD.

## PLANT SCHEDULE

KEY	COMMON NAME	BOTANICAL NAME	SIZE / CONDITION	SPACING
SKK	SEEDLESS KENTUCKY COFFEETREE	GYMNOCLADUS DIOICA 'UMNSYNERY' TRUE NORTH	2 1/2" CAL B&B	AS SHOWN

#### PLANTING NOTES

- MARK THE LOCATIONS OF ALL UNDERGROUND UTILITIES BEFORE BEGINNING WORK. REPORT ANY CONFLICTS TO THE ENGINEER PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITY LINES.
- 2. UNLESS INDICATED FOR REMOVAL, PROTECT EXISTING UTILITIES, AND FACILITIES FROM DAMAGE DURING CONSTRUCTION. ANY DAMAGE CAUSED TO EXISTING FACILITIES AND UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 3. PRIOR TO PLANTING, VERIFY CONDITIONS IN TREE WELLS ARE AS DETAILED. OBTAIN APPROVAL FROM ENGINEER PRIOR TO PROCEEDING.
- 4. TREE WELL LOCATIONS INDICATED ON THE PLANS ARE COORDINATED WITH OTHER SITE ELEMENTS. HOWEVER, THE CONTRACTOR MAY BE REQUIRED TO ADJUST THE LOCATION OF TREE WELLS TO AVOID CONFLICTS FOUND IN THE FIELD, AS APPROVED BY THE ENGINEER.
- MARK PLANT LOCATIONS AND TREE WELL EXCAVATIONS OUTLINES. OBTAIN APPROVAL FROM THE ENGINEER OF ALL LOCATIONS PRIOR TO INSTALLATION. THE ENGINEER WILL REVIEW THE LAYOUT AND APPROVE NECESSARY ADJUSTMENTS.
- 6. THE ENGINEER RESERVES THE RIGHT TO INSPECT ALL PLANT MATERIALS BEFORE OR AFTER PLANTING. PLANT MATERIAL MAY BE REJECTED AT ANY TIME DUE TO CONDITION, FORM, DAMAGE AND IMPROPER INSTALLATION.
- ALL PLANT SUBSTITUTION REQUESTS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL 10 WORKING DAYS MINIMUM PRIOR TO ORDERING PLANTS. SUBSTITUTIONS ARE NOT PERMITTED UNLESS AUTHORIZED.
- 8. PROVIDE IDENTIFICATION TAG FROM THE SUPPLYING NURSERY SHOWING COMMON AND BOTANICAL PLANT NAMES FOR ONE OR MORE PLANTS OF EACH SPECIES DELIVERED TO THE SITE.
- 9. PROTECT ALL PLANTS AGAINST HEAT, SUN, WIND AND FROST DURING TRANSPORTATION TO THE SITE AND WHILE BEING HELD AT THE SITE. DO NOT STORE PLANTS IN TOTAL DARKNESS MORE THAN ONE
- 10 PLANT MATERIALS: ALL PLANT MATERIALS SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF ANSI Z60.1 OF THE AMERICAN STANDARD FOR NURSERY STOCK, LATEST EDITION. PLANTS SHALL BE HEALTHY, VIGOROUS, FREE OF DISEASES, INSECT PESTS AND THEIR EGGS. PLANT MATERIALS SHALL BE WELL FORMED WITH FULL FOLIAGE MASS. PLANT ROOT BALLS, BRANCH STRUCTURE AND TRUNKS SHALL NOT BE DAMAGED. ROOT GROWTH SHALL BE TO THE EDGE OF CONTAINERS, BUT THERE SHALL BE LITTLE OR NO CIRCLING ROOTS OUTSIDE THE ROOT BALL OF PLANTINGS. ROOT BOUND PLANTS AND PLANT CONDITIONS THAT DO NOT CONFORM TO THESE STANDARDS SHALL BE REJECTED.
- 11. THIN CIRCLING ROOTS SHALL BE CUT 3-4 TIMES AT A DEPTH OF APPROXIMATELY 1/2 INCH AT ⊤VARIOUS LOCATIONS AROUND THE ROOT BALL AT TIME OF INSTALLATION.
- 12. INSTALL ALL PLANT MATERIAL IN ACCORDANCE WITH DETAILS AND SPECIFICATIONS.

#### SUPPLEMENTAL WATERING REQUIREMENTS

- INITIAL WATERING: WATER ALL PLANTS IMMEDIATELY AFTER INSTALLATION. FLOOD PLANTS TWICE DURING FIRST TWENTY -FOUR HOUR PERIOD FOLLOWING PLANTING. INITIAL WATERING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT UNIT PRICE FOR TREE PLANTING AND NO SEPARATE PAYMENT SHALL BE MADE. ALL OTHER WATERING SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR WATERING AND CULTIVATING.
- SUPPLY THE FOLLOWING AMOUNTS OF WATER TO PLANTS DURING THE ESTABLISHMENT AND MAINTENANCE PERIOD:
- TREES: 35 GALLONS PER WEEK. FILL WATERING TUBES (APPROXIMATELY 20 GALLONS). THEN PROVIDE THE BALANCE OF REQUIRED WATER (APPROXIMATELY 15 GALLONS) APPLIED DIRECTLY AROUND THE ROOTBALL.
- 3. IN PERIODS OF HOT WEATHER, TEMPERATURES ABOVE 90 DEGREES FAHRENHEIT ADDITIONAL SUPPLEMENTAL WATERING SHALL BE REQUIRED AND AS DIRECTED BY THE ENGINEER.
- APPLY ROOT STIMULATOR, DURING INITIAL WATERING, IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ROOT STIMULATOR SHALL BE AN ORGANIC NON-CHEMICAL LIQUID CONCENTRATE BIO-STIMULANT AND ROOT STIMULATOR, SIMILAR SUPER SEAWEED BY MICROLIFE. ALL OTHER WATERING SHALL INCLUDE A NITROGEN-ENRICHED SOLUTION AS SPECIFIED.

### ESTABLISHMENT AND MAINTENANCE REQUIREMENTS

- THE ESTABLISHMENT PERIOD BEGINS IMMEDIATELY AFTER ALL PLANTINGS ARE INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AND ACCEPTANCE OF THE PLANTINGS HAS BEEN ISSUED BY THE ENGINEER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WATER AND CARE FOR PLANTINGS UNTIL ALL PLANTINGS ARE REVIEWED AND ACCEPTED BY THE ENGINEER.
- PERFORM ACTIVITIES IDENTIFIED IN THE MAINTENANCE SCHEDULE ON THIS SHEET FOR THE DURATION OF THE ESTABLISHMENT PERIOD.
- 3. PERIOD OF ESTABLISHMENT: 2 GROWING SEASONS. A GROWING SEASON IS FROM MARCH 1 TO NOVEMBER 1
- 4. MAINTENANCE AND ESTABLISHMENT SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR WATERING AND CULTIVATING, FIRST SEASON AND WATERING AND CULTIVATING, SECOND SEASON.

# PLANTING NOTES (CONT'D)

- 13. REMOVE ALL PLANT BINDING MATERIALS AT THE TIME OF PLANTING. CONTAINERS SHALL BE | COMPLETELY REMOVED FROM THE PLANT ROOT BALL AT TIME OF PLANTING. ALL WIRE BASKETS, TREE ROOT BALL WRAP/BURLAP. AND OTHER BINDINGS SHALL BE CUT AND REMOVED FROM THE UPPER 1/2 OF ROOT BALL. BINDINGS AROUND THE TRUNKS OF TREES SHALL BE REMOVED WITHOUT EXCEPTION. RETAIN PLANT TAGS AND TREE WRAP ON PLANTINGS UNTIL FINAL INSPECTION AND APPROVAL OF PLANT MATERIAL BY THE ENGINEER.
- 14. ALL PLANTS SHALL BE SET PLUMB AND HAVE THE BEST SIDE OF PLANT FACING THE STREET.
- 15. SCARIFY EDGES OF EXCAVATION WHERE SMOOTHED DURING EXCAVATION.
- 16. REMOVE EXCESS DEBRIS. MULCH AND LOOSE SOIL TO EXPOSE THE NATURAL ROOT COLLAR/FLARE PRIOR TO INSTALLATION.
- 17. TREES SHALL BE PLANTED SO ROOT COLLAR/FLARE IS SLIGHTLY ABOVE (1" MAX.) ADJACENT GRADE. SET TREE PLUMB AND IN CENTER OF PLANTING PIT AS DETAILED.
- 18. DO NOT DISTURB ROOT BALL WHEN PLANTING. CRACKED OR OTHERWISE DAMAGED ROOT BALLS SHALL BE REJECTED.
- 19. INSTALL TREE ROOT BALL STABILIZERS ON ALL TREES AS DETAILED.
- 20. WHEN BACKFILLING AROUND PLANT ROOT BALL, TAMP PLANTING SOIL AND WATER THOROUGHLY. ADD  $\lnot$  REMAINING PLANTING SOIL AND THEN WATER UNTIL NO MORE WATER IS ABSORBED BY THE SOIL.
- 21. INSTALL A LAYER OF SHREDDED ORGANIC MULCH OVER ENTIRE TREE WELL AREA AS DETAILED.
- 22. ALL PLANT MATERIAL HEIGHTS SPECIFIED ARE SHOWN BEFORE PRUNING. ALL DEPTHS DETAILED ARE SHOWN AFTER SETTLING.

PROJECT

**FIRST MERCHANTS BANK** DETROIT 8/29/2023

7525 West McNichols Rd. Detroit, MI 48221

CLIENT

FIRST MERCHANTS BANK 200 East Jackson Street

Muncie, IN 47305 765.378-8439

CONSULTANTS

AECOM 4219 Woodward Ave

Detroit, MI 48201 313.989.1800

REGISTRATION

SSUE/REVISION

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