OKLAHOMA CITY_STREETSCAPE

NW 6TH ST.
NW 5TH ST.
NW 4TH ST.
WALKER AVE.
HUDSON AVE.
HARVEY AVE.
ROBINSON AVE.
BROADWAY AVE.
DEAN A. MC GEE AVE.
ROBERT S. KERR AVE.
COUCH DR.
PARK AVE.
COLCORD AVE.
MAIN ST.
SHERIDAN AVE.
CALIFORNIA AVE.
RENO AVE.
E.K. GAYLORD BLVD.

THE OFFICE OF JAMES BURNETT
MURASE ASSOCIATES
SPECK & ASSOCIATES, LLC

DESIGN DEVELOPMENT ISSUE
OCTOBER 21, 2009

OKLAHOMA CITY STREETSCAPE - PROJECT GOALS

01

"CREATE A COHESIVE CENTRAL BUSINESS DISTRICT." 21ST CENTURY CITY, MEMORABLE.

02

A STREETSCAPE THAT IS UNIQUE TO "OKLAHOMA CITY" LOCAL CONTEXT.

03

"CREATE A NEW URBAN FABRIC," THAT ALLOWS FOR FUTURE FLEXIBILITY, GROWTH.

04

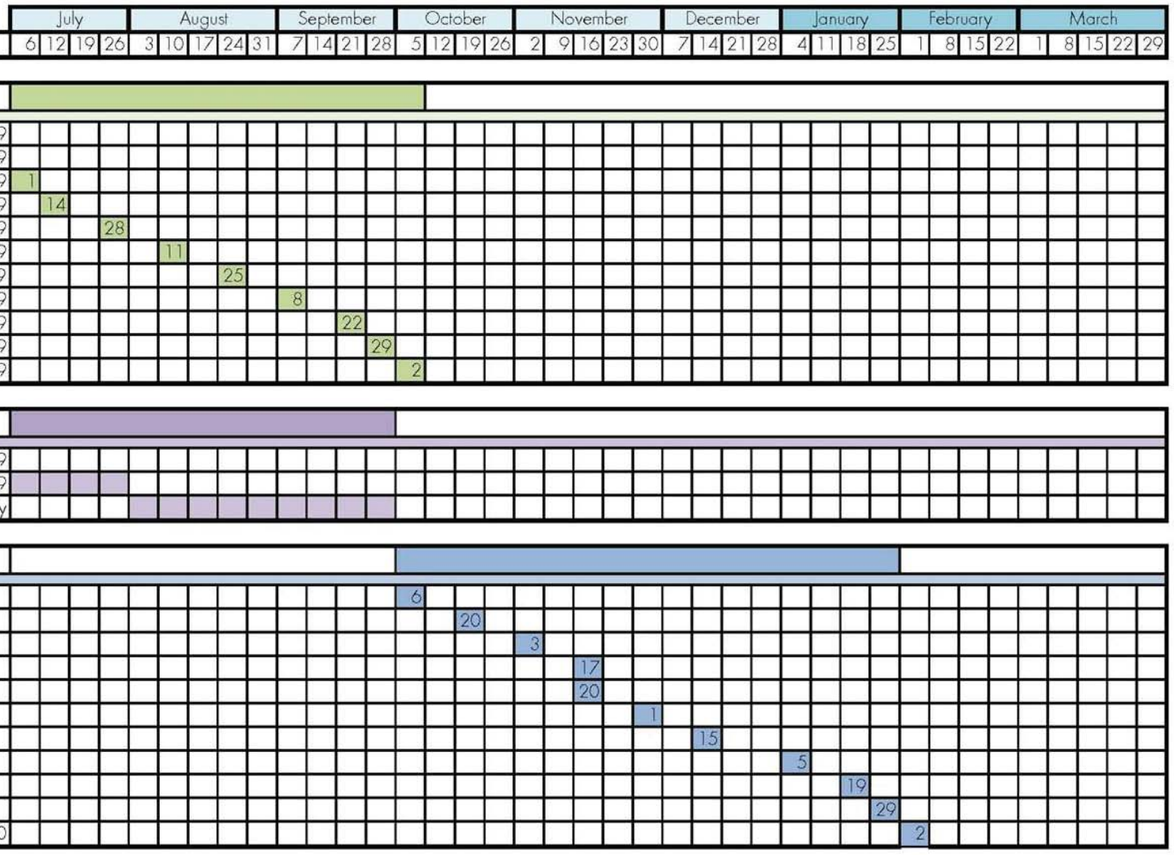
"CREATE AN ACCESSIBLE ENVIRONMENT." AUTOMOBILE, PEDESTRIAN, BICYCLE, ABILITIES.

05

"DEVELOP A NEW SUSTAINABLE SYSTEM." LEED PRINCIPLES, WATER, LOCAL MATERIALS, SHADE, COMFORT DEFINITION.

STREETSCAPE AND STREET IMPROVEMENTS - PROJECT SCHEDULE

ID	Project Task	Duration	Start Date
	Schematic Design (July 1 - October 9)	100 days	
1	Meeting Traffic/Streetscape Work Session	1 day	2/2/2009
2	ADA Certification Class	1 day	2/11/2009
3	Project Meeting, Civil, Traffic	1 day	7/1/2009
4	Steering Committee Meeting #1	1 day	7/14/2009
5	Steering Committee Meeting #2	1 day	7/28/2009
6	Steering Committee Meeting #3	3 days	8/11/2009
7	Steering Committee Meeting #4, Finalize Traffic Plan	1 day	8/25/2009
8	Steering Committee Meeting #5, Design Review Committee	2 day	9/8/2009
9	Steering Committee Meeting #6,	1 day	9/22/2009
10	Community Presentation	1 day	9/29/2009
11	Issue Schematic Design Package	1 day	10/9/2009
	Civil/Land Survey	90 days	
12	Kick-Off Meeting, Civil/Land Survey	1 day	7/1/2009
13	Issue Base Survey Plan	30 days	7/31/2009
14	Civil Background Updates (Weekly for each alignment)	60 days	weekly
	Design Development (October 1, 2009 - January 31, 2010)	120 days	
15	Design Development Steering Committee Meeting #7, DD Kick-off	1 day	
16	Steering Committee Meeting #8	1 day	
17	Steering Committee Meeting #9	1 day	
18	Steering Committee Meeting #10	1 day	
19	Issue 50% Design Development Package	1 day	
20	Steering Committee Meeting #11	1 day	
21	Steering Committee Meeting #12	1 day	
22	Steering Committee Meeting #13	1 day	
23	Steering Committee Meeting #14	1 day	
23	Issue 100% Design Development Package	1 day	
24	Public Review Meeting	1 day	2/2/2010
	Construction Drawings Phase (November 1, 2009 - June 30, 2012)		
25	Construction Phase Kick-off	1 day	11/1/2010
	Bidding Phase (2010 - 2012)		
26	Bidding Phase Kick-off	1 day	3/1/2010
	Construction Phase (May 1, 2010 - November 2012)		
27	Construction Phase Kick-off	1 day	5/1/2010



Notes

OKLAHOMA CITY STREETSCAPE AND STREET IMPROVEMENTS SUMMARY

Executive Summary

STREETSCAPE MASTER PLAN (TASKS COMPLETED)

1.	Oklahoma City Streetscape Improvements Plan, Final Plan	November 18, 2008
2.	Review Meeting with Oklahoma City, City Managers Office, Public Works, Devon Management Team, OJB	January 22, 2009
3.	Issue Proposal for Landscape Architectural Consultant Services, Revision #1	January 30, 2009
4.	Meeting with Public Works, Project Kick-Off Meeting	February 10, 2009
5.	Oklahoma City Public Works Department, ADA Contractor Certification Course (3 team members certified)	February 11, 2009
6.	Photo documentation of proposed Downtown Street Improvements Alignments	February 12, 2009
7.	Meeting with Traffic Engineering Consultants to review Oklahoma City Streetscape Improvements Plan	February 12, 2009
8.	Recommendations Report to OKC Engineering, Traffic Engineering Consultants	February 17, 2009
9.	Visit local Civil Firms, Issue Land Surveying Services for the OKC Streetscape and Street Improvements Project	March 31, 2009
10.	Attend City Council Meeting for Walkability Study	March 31, 2009
11.	Award local Land Survey/Civil Contract	April 6, 2009
12.	Include additional scope around the Oklahoma City National Memorial and Museum Site	April 23, 2009
13.	Sign Proposal for Landscape Architectural Consultant Services, Revision #10	May 1, 2009

SCHEMATIC DESIGN (TASKS COMPLETED)

14.	Project Kick-off, Meeting with OKC Public Works	July 1, 2009
15.	Civil/Survey Kick-off Meeting with OKC Public Works, Lemke Land Survey	July 1, 2009
16.	Steering Committee Meeting #1 (Key points, Project Goals, Project Boundary, Traffic Analysis, Site Issues & Opportunities, Key Considerations)	July 14,2009
17.	Engaged Jeff Speck & Associates	July 24, 2009
18.	Steering Committee Meeting #2 (Key points, Context, Project Priorities, Traffic Study, Overlay Diagrams –CBD, Traffic- Transportation- Bike Routes- Pedestrian Routes, Initial Plans & Ideas)	July 28, 2009
19.	Engaged Glatting Jackson	August, 8, 2009
20.	Steering Committee Meeting #3 (Key points, Project Goals, Schedule, Traffic Proposal Option I, Option II, Plan/Diagrams/Sections/Partial Plans)	
21.	Issued Updated Traffic Plan/Diagram/Sections/Partial Plans	August 11, 2009
22.	Steering Committee Meeting #4 (Key points, Project Goals, Updated Traffic Diagrams, Initial Design Concepts, Methodology, Considerations).	August 26, 200
23.	Issued Traffic Plan/Diagrams/Sections/Partial Plans, Geometry (Issued for Review by TEC and acceptance by OKC Public Works	August 26, 2009
24.	Issued Letter, Transportation Planning Approach, Glatting JacksonKercher Anglin.	August 26, 2009
25.	Traffic Sub-Committee Meeting	August 28, 2009
26.	Traffic Sub-Committee Meeting	September 2, 2009
27.	Steering Committee Meeting #5	September 9, 2009
28.	Public Presentation to Local Design Firms, Utility Companies (Steering Committee Meeting #6)	September 23, 2009
29.	Street Tree Inventory (Sub-Committee)	September 24, 2009
30.	Public Art Inventory and Review (Sub-Committee)	September 24, 2009
31.	Transportation Sub-Committee Meeting	September 24, 2009
32.	Local Design Firm Interviews	October 5, 7, 2009
33.	Issue Schematic Design Drawings Package, (Drawing Package, Streetscape Standardization Reference Manual)	October 9, 2009
34.	Schematic Design Complete	October 15, 2009

DESIGN DEVELOPMENT (TASKS COMPLETED)

35.	Local Design Firm Selection/Award	October 14, 2009
36.	Steering Committee Meeting #7 (Vertical Elements Preliminary)	October 21, 2009

Design Development - In Progress – Next Steps (Week 2 of 16)

CURRENT KEY TASKS

1.	Steering Committee Meeting #8 (Horizontal Elements Preliminary)	November 4, 2009
2.	Steering Committee Meeting #9 (Design Presentation, Renderings, Models, Boards)	November 22, 2009

Additional Considerations

Next Step

1. Overlay OKC Transportation Plan with Proposed Streetscape Diagram.
4. Overlay OKC Bike Plan with Proposed Streetscape Diagram.
5. Present Streetscape Plan to the Design Review Committee.
6. Present Streetscape Plan to Oklahoma City Community.

Design Team

The Office of James Burnett, Murase Associates, Speck & Associates LLC, Glatting Jackson Kercher Anglin, Inc. (OJB in-house consultant)

OKLAHOMA CITY

PROJECT AERIAL

CONSTRUCTION DATA

AREA OF DEMOLITION
2,609,800 SQ FT, 59 ACRES

STREET LAMPS
711 LAMPS

STREET TREES
1,970

CURB & GUTTER
80,378 LINEAR FEET

CURB & GUTTER
80,378 LINEAR FEET

TREE GRATES
322

PROJECT DATA

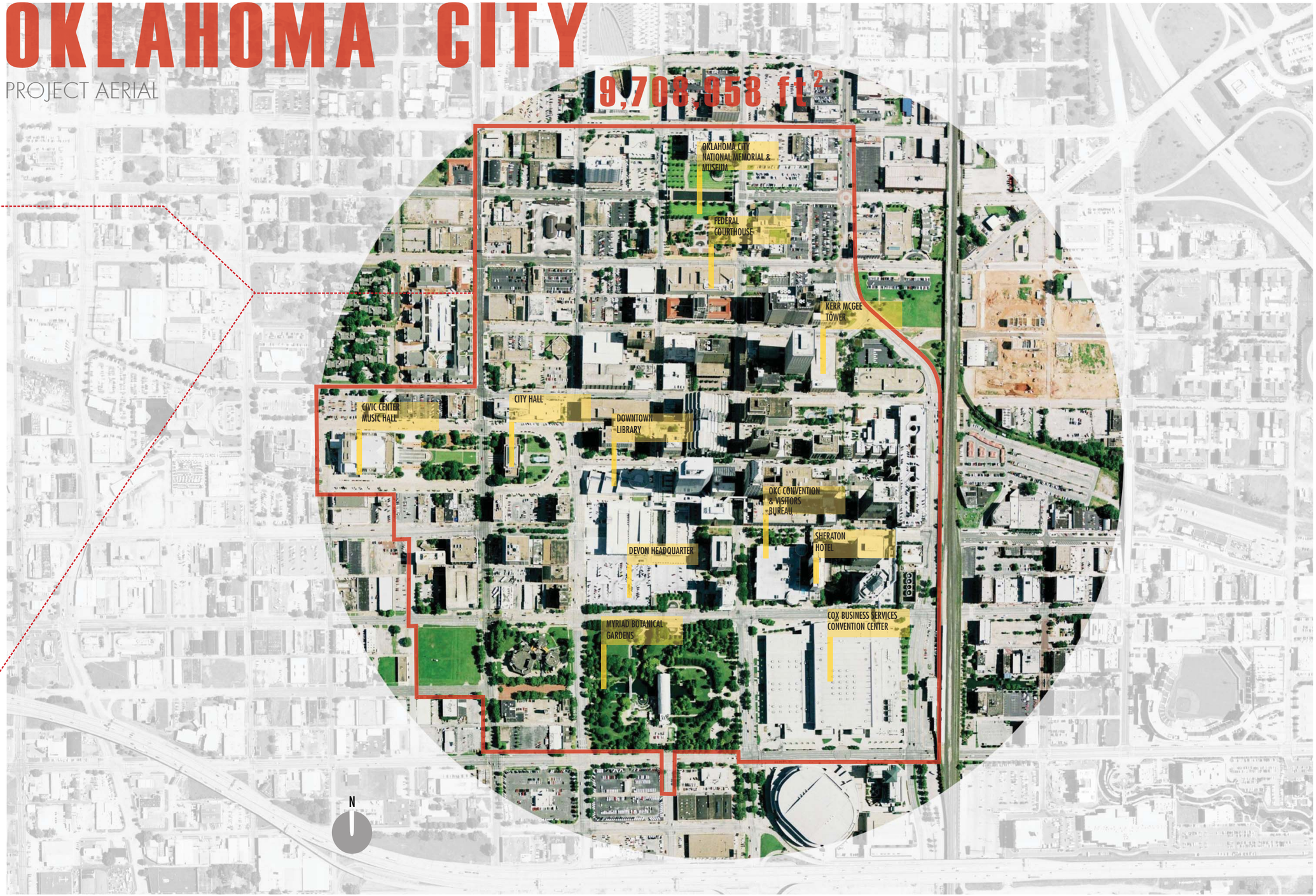
AREA OF SITE
9,708,958 SQUARE FEET, 222 ACRES +/-

HUMAN POPULATION
CITY 547,274
METRO 1,262,027

CITY BLOCKS
50 BLOCKS

BLOCK FACES 92
49 EAST WEST
43 NORTH SOUTH

INTERSECTIONS
51 INTERSECTIONS



OKLAHOMA CITY

DOWNTOWN STREETSCAPE REDEVELOPMENT

INITIAL PHASING PLAN AS ADOPTED BY COUCIL, SEPTEMBER 2009

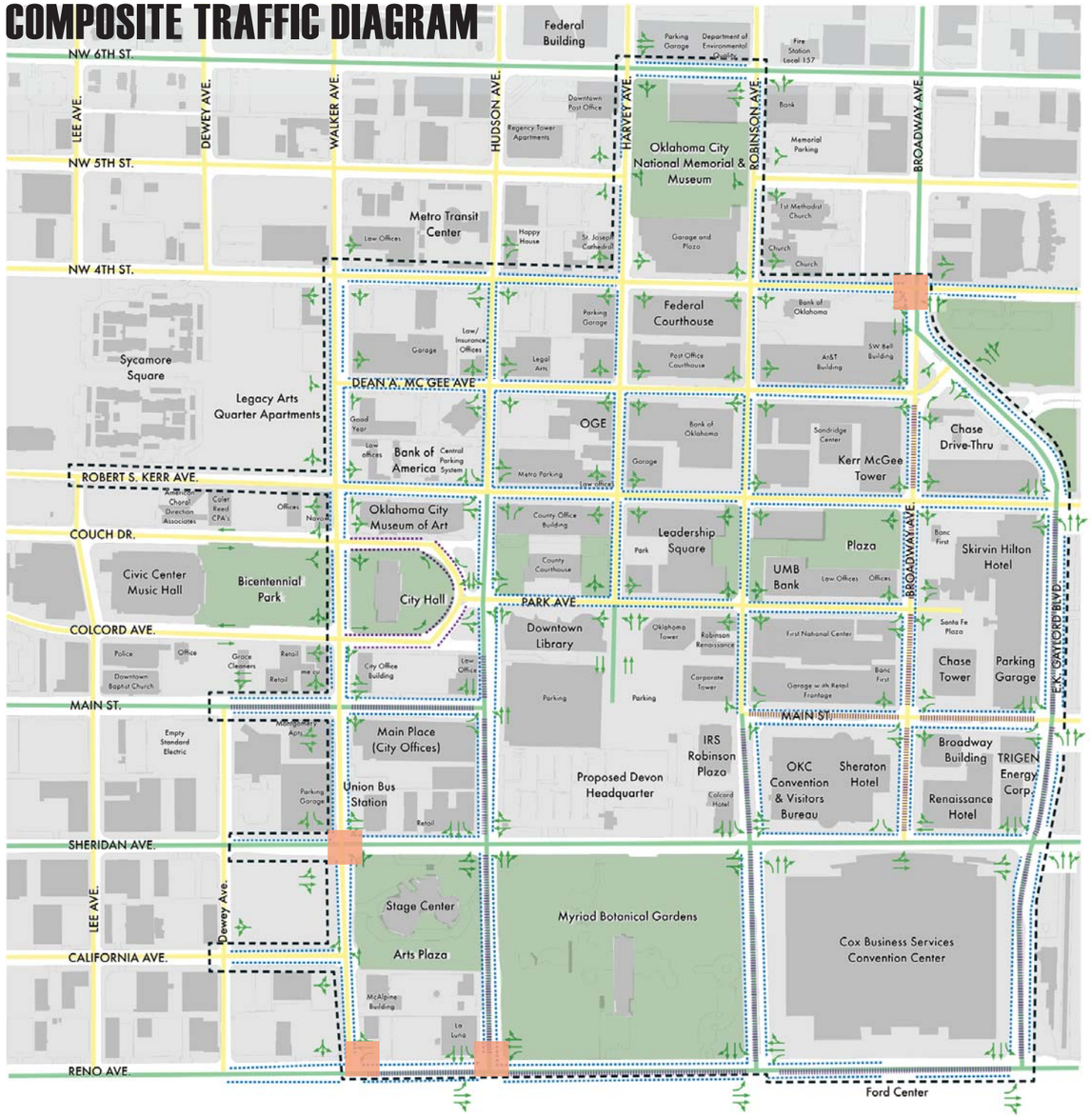
STREETSCAPE PHASING PLAN

SRB	+/- 6194 lf
MAC	+/- 6171 lf
JA	+/- 7410 lf
TT	+/- 7321 lf
MR	+/- 4051 lf
CARD	+/- 5533 lf
COON	+/- 4212 lf
L	+/- 4023 lf

1

STREET DIAGRAMS

COMPOSITE TRAFFIC DIAGRAM



LEGEND

- 4 THROUGH LANES
- 2 THROUGH LANES
- PLANTED MEDIAN
- TRAFFIC LANE
- ON-STREET PARALLEL PARKING (DEDICATED LANE)
- ON-STREET ANGLED PARKING (DEDICATED LANE)
- PROJECT LIMIT
- GREEN SPACE
- INTERSECTION OF STUDY

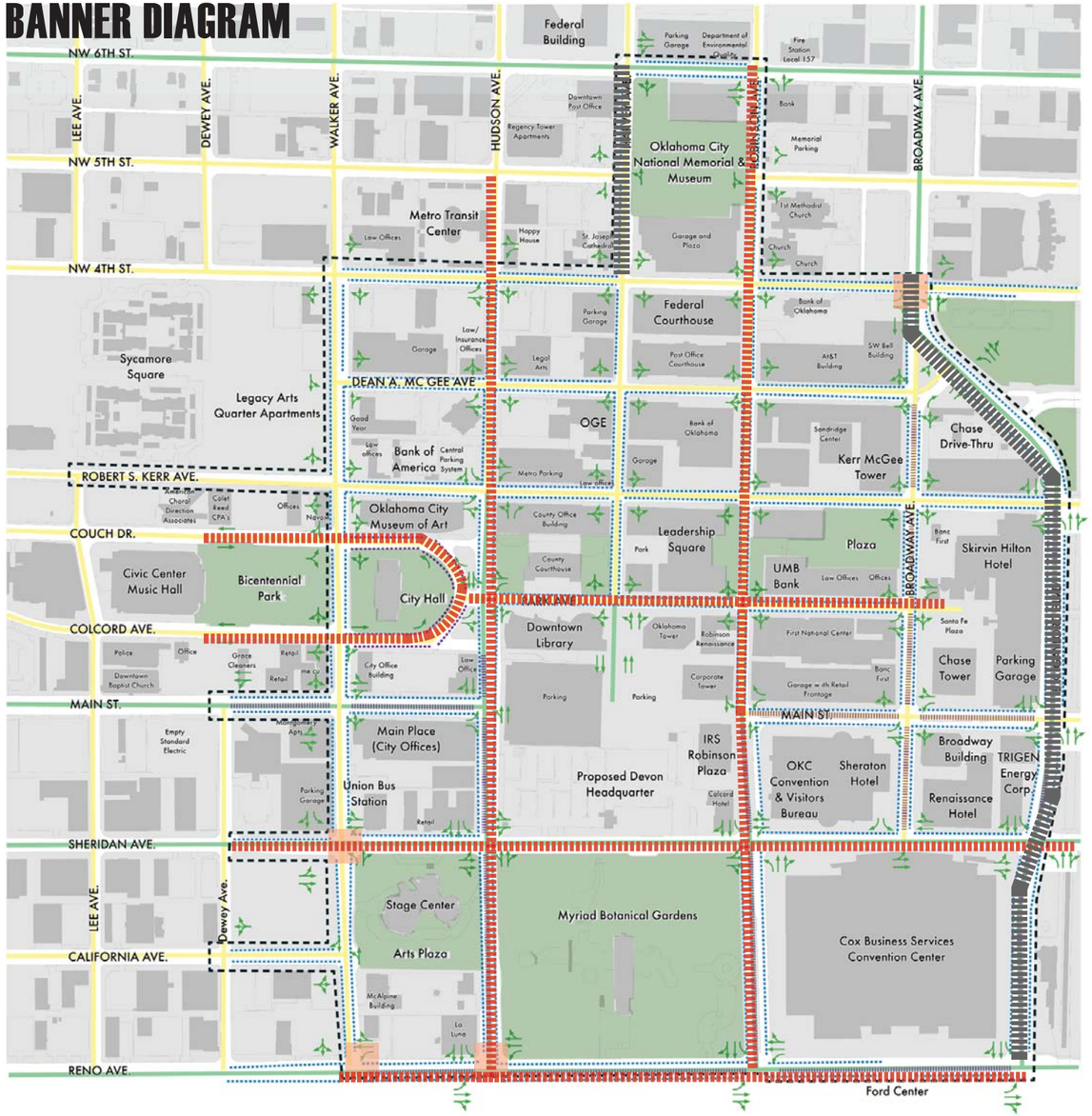
INTERSECTIONS OF STUDY

- 4TH STREET AND BROADWAY AVENUE
- SHERIDAN AVENUE AND WALKER AVENUE
- RENO AVENUE AND WALKER AVENUE
- RENO AVENUE AND HUDSON AVENUE
- THE BOULEVARD AT ROBINSON AVENUE (OFF PLAN)
- THE BOULEVARD AT E.K. GAYLORD BOULEVARD (OFF PLAN)

GENERAL RECOMMENDATION

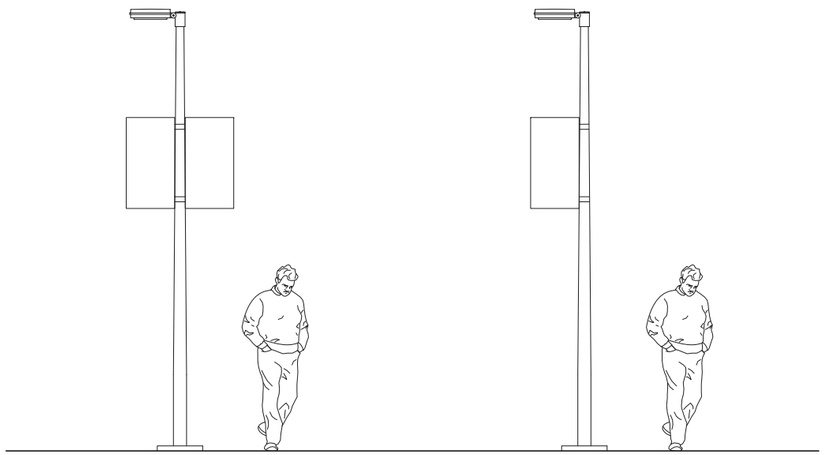
- PROVIDE TWO-WAY TRAFFIC ON ALL STREETS IN THE CENTRAL BUSINESS DISTRICT EXCEPT FOR SOME SECTIONS OF COLCORD AVE. AND COUCH AVE. NEAR CITY HALL
- REDUCE LANE WIDTH TO 10 FEET; 11-12 FEET FOR TRANSIT ROUTES
- PROVIDE AUTOMATIC 'WALK' SIGNAL FOR PEDESTRIAN
- MAXIMIZE ON-STREET PARKING SPACES THROUGHOUT THE DISTRICT WITH PARALLEL AND ANGLED PARKING
- INTRODUCE BIKE LANES BETWEEN ON-STREET PARKING SPACES AND VEHICULAR TRAFFIC LANES ON CERTAIN STREETS
- CONVERT STRIPED MEDIAN ON RENO AVE. TO PLANTED MEDIAN

BANNER DIAGRAM



LEGEND

- 4 THROUGH LANES
- 2 THROUGH LANES
- PLANTED MEDIAN
- TRAFFIC LANE
- ON-STREET PARALLEL PARKING (DEDICATED LANE)
- ON-STREET ANGLED PARKING (DEDICATED LANE)
- PROJECT LIMIT
- GREEN SPACE
- INTERSECTION OF STUDY
- PROPOSED BANNER ALIGNMENT
- EXPANDED BANNER ALIGNMENT



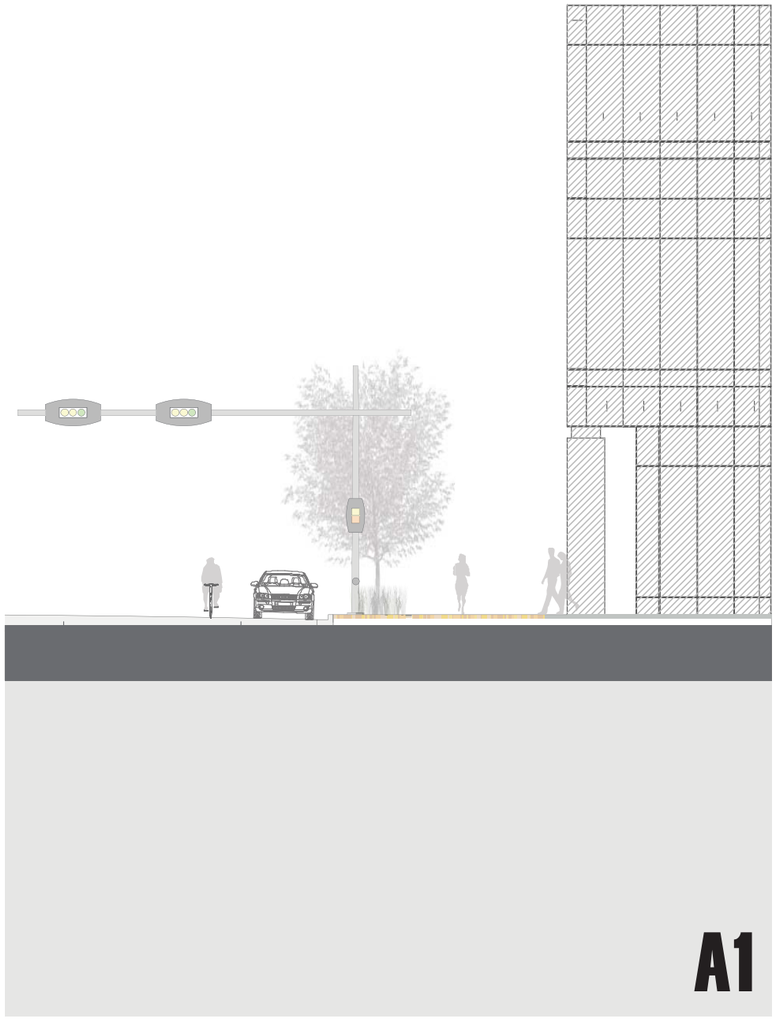
SECTION

2 DESIGN COMPONENTS

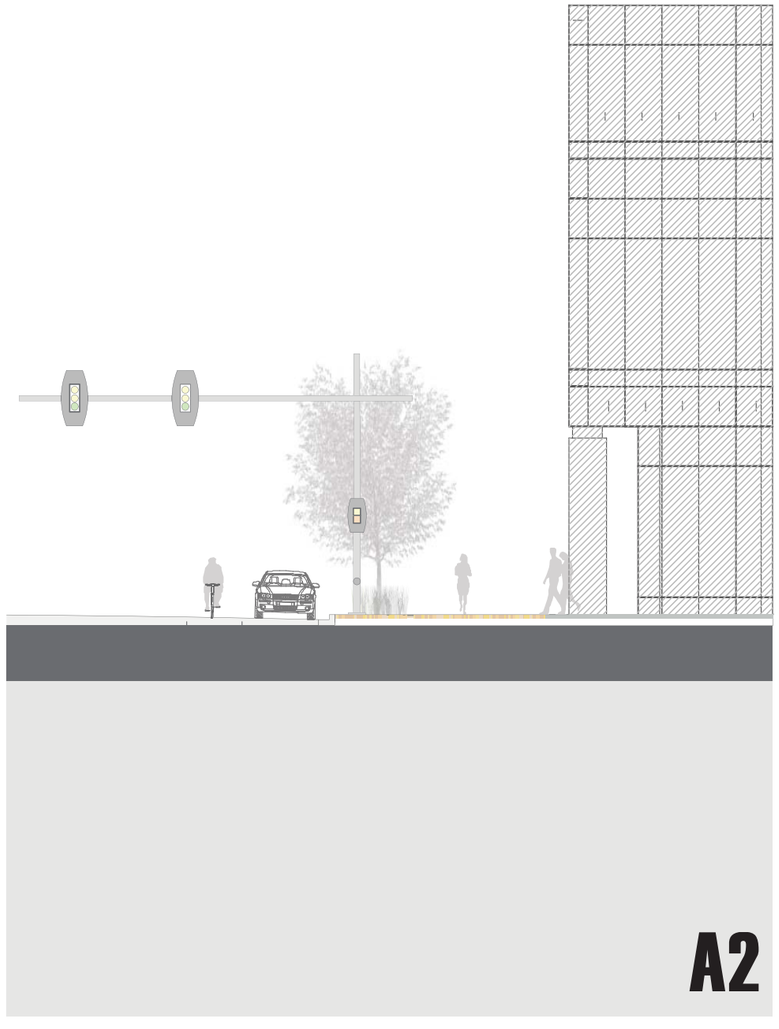
OKLAHOMA CITY URBAN - STREETLIFE

signal poles A

| timeless | attractive | elegant | superior materials | pure & simple |



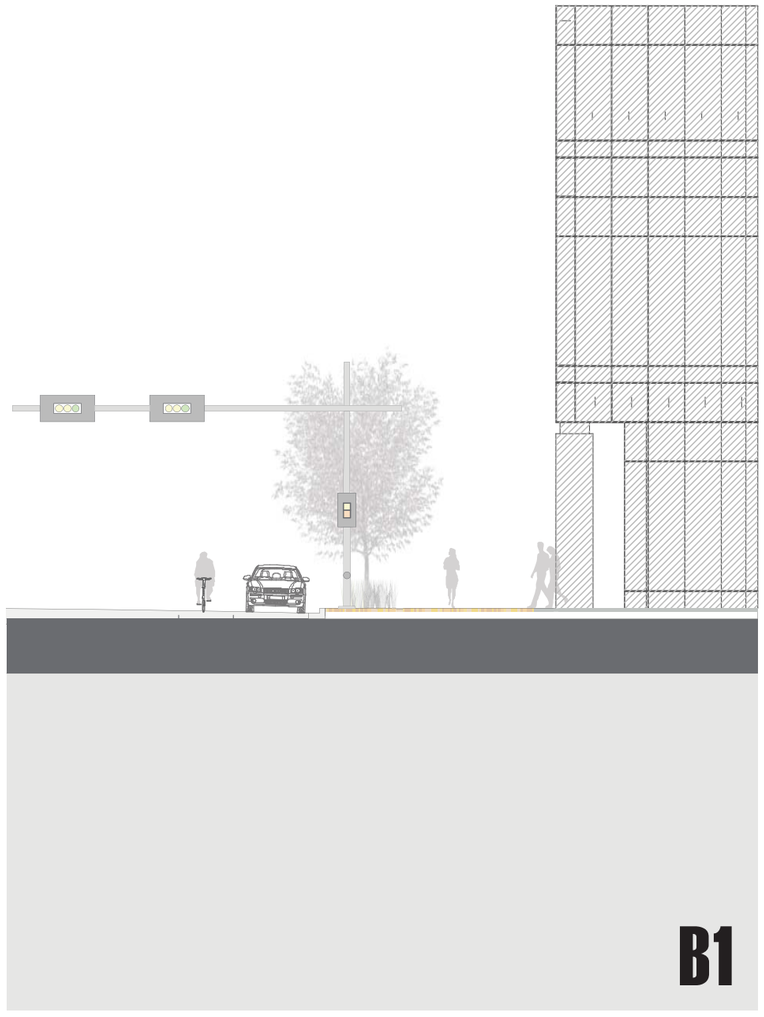
A1



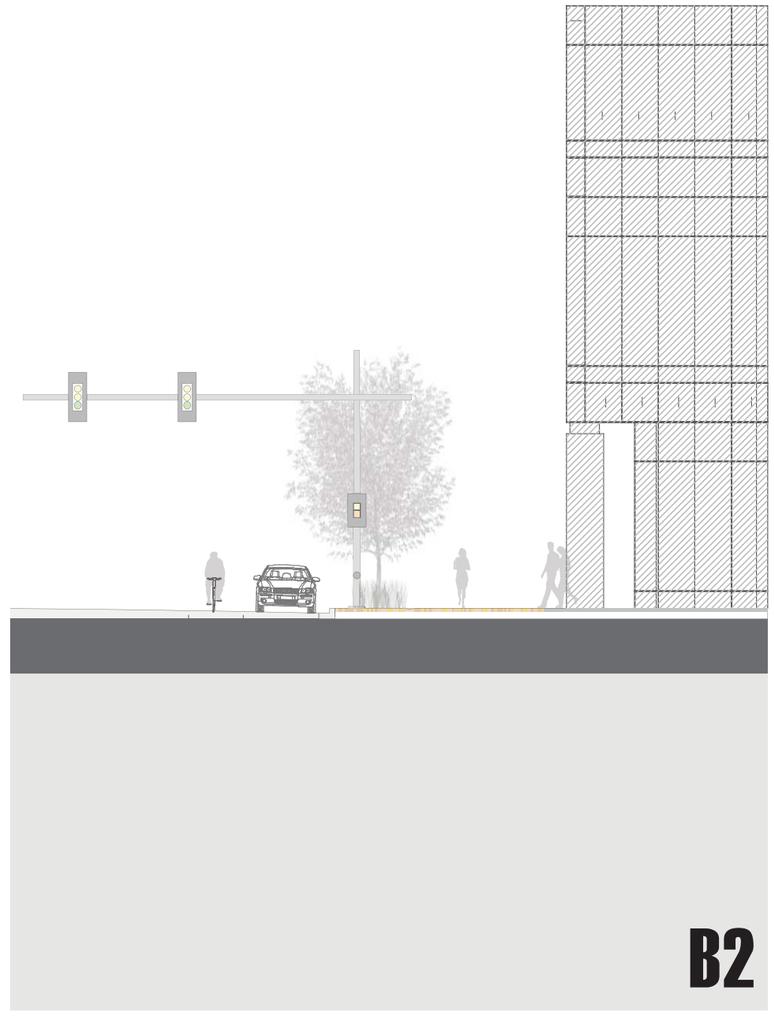
A2

OKLAHOMA CITY URBAN - STREETLIFE signal poles B

| timeless | attractive | elegant | superior materials | pure & simple |



B1

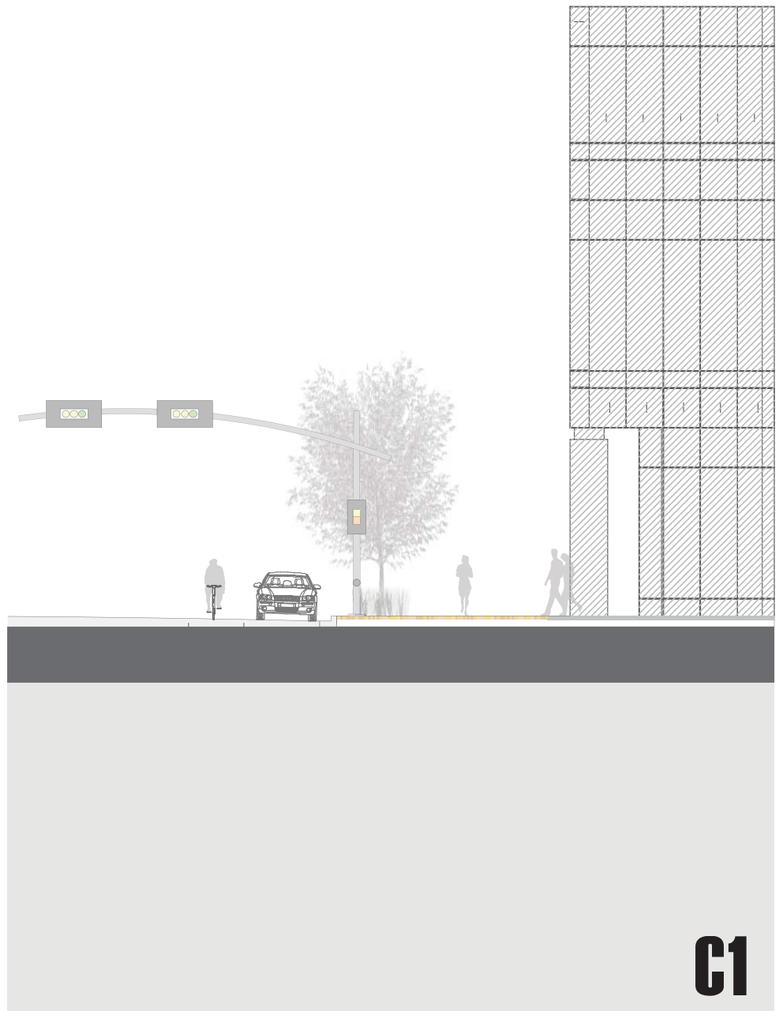


B2

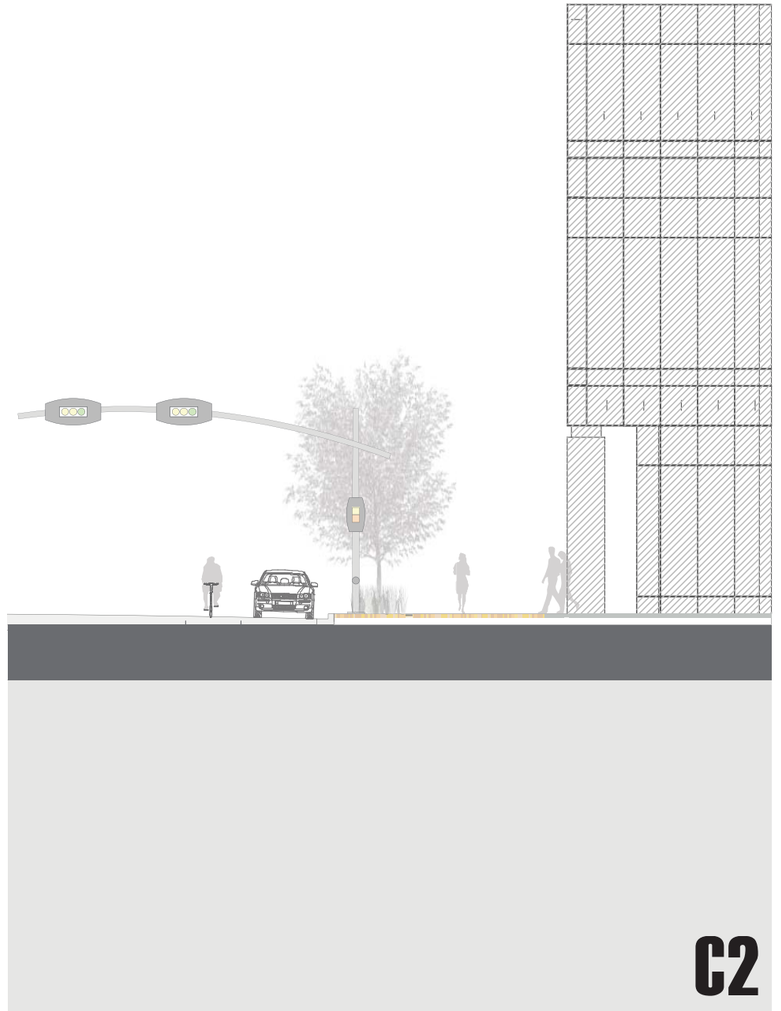
OKLAHOMA CITY URBAN - STREETLIFE

signal poles C

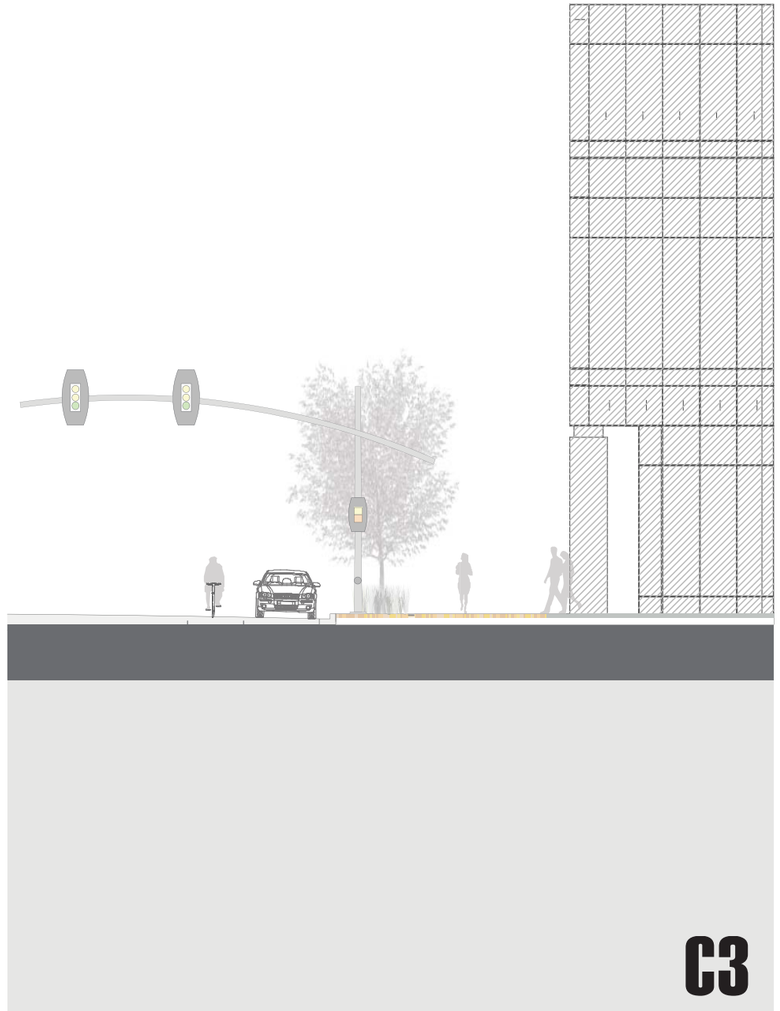
| timeless | attractive | elegant | superior materials | pure & simple |



C1



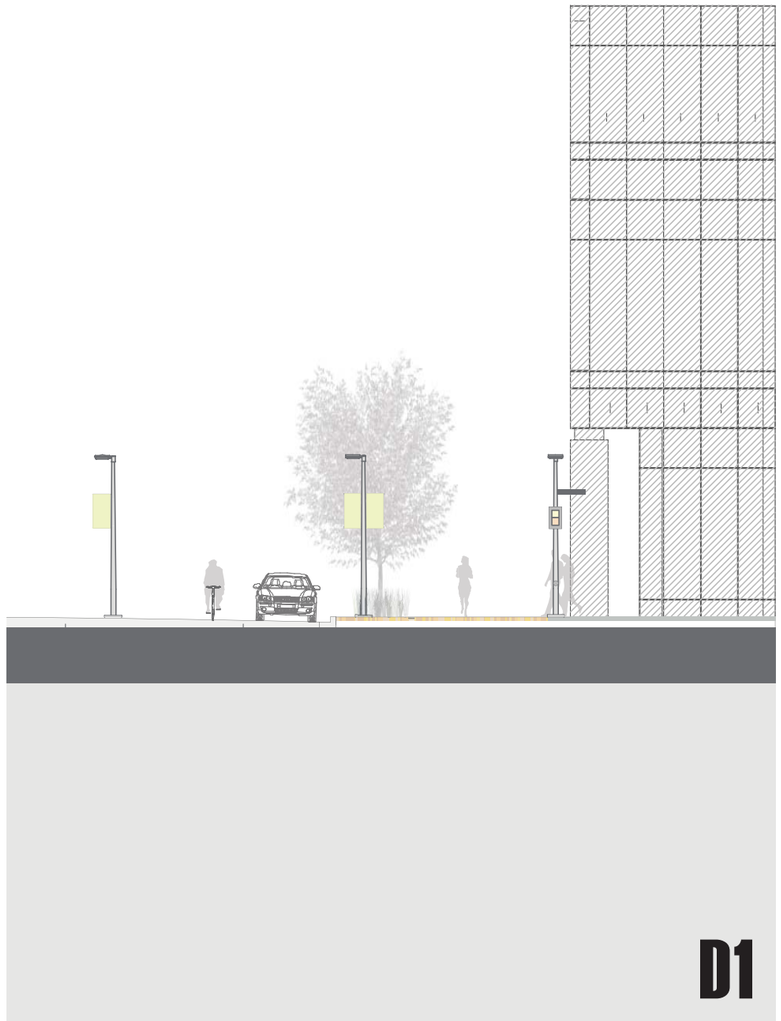
C2



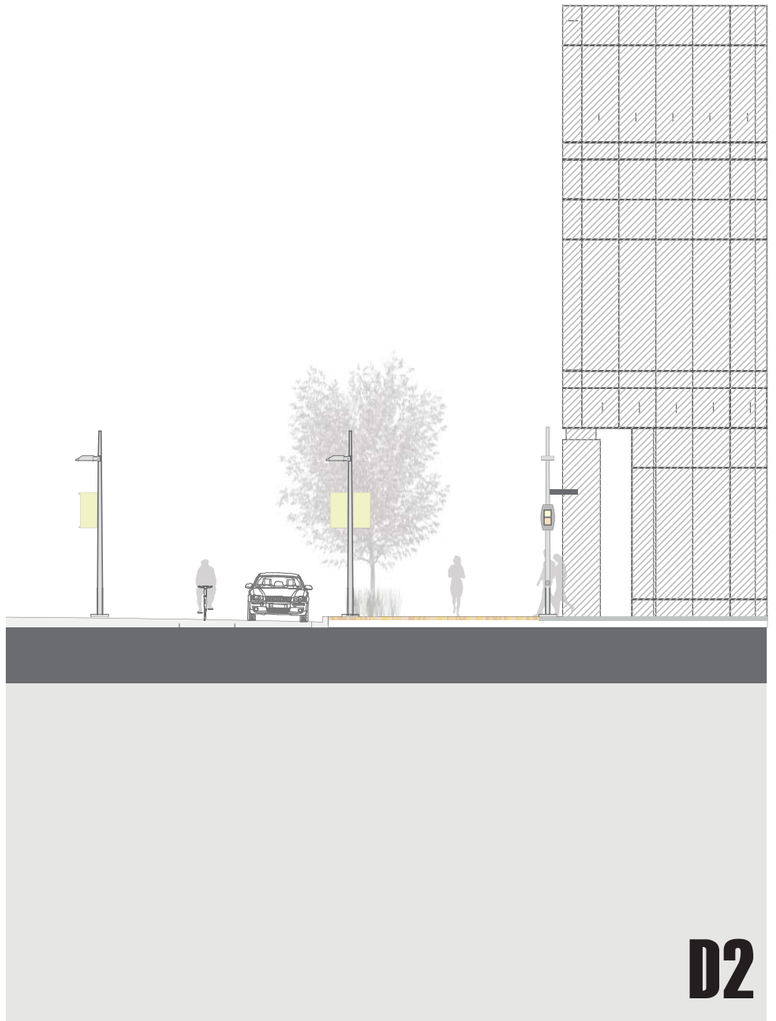
C3

OKLAHOMA CITY URBAN - STREETLIFE streetlight & banner

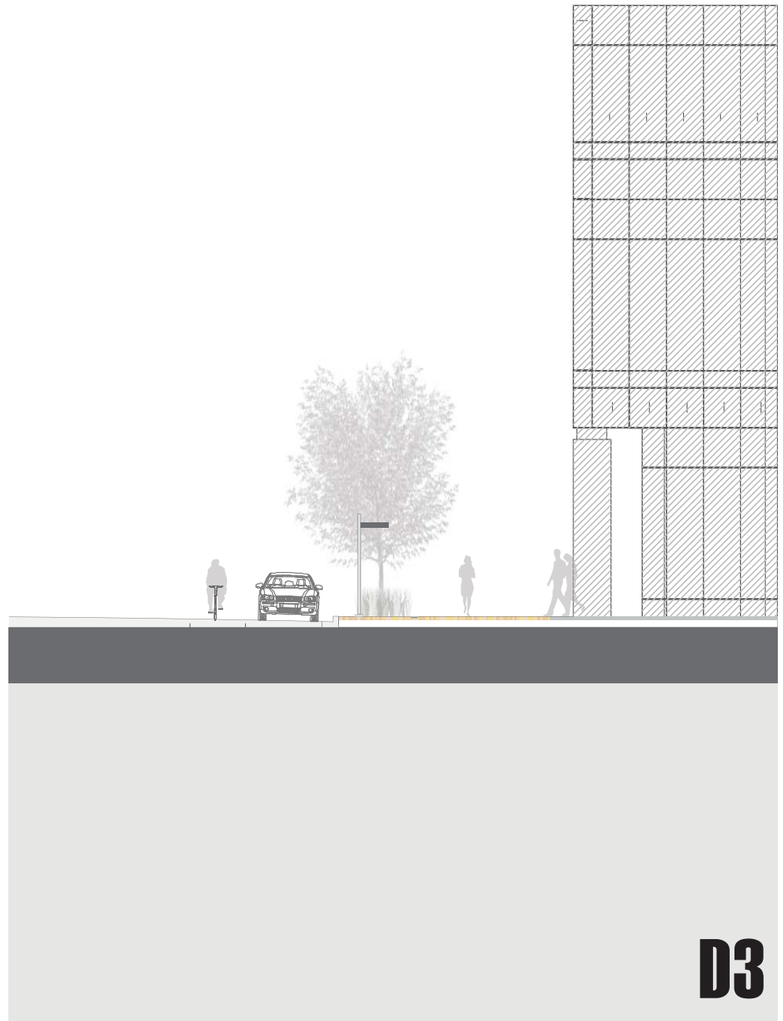
| timeless | attractive | elegant | superior materials | pure & simple |



D1



D2

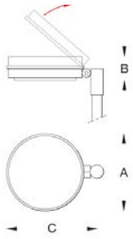


D3

OKLAHOMA CITY URBAN - STREETLIFE

lighting option 1

| timeless | clean | elegant | superior materials | performance



Single pole-top luminaires

	Lamp	Lumen	A	B	C
9057 MH	1 100W ED-17 MH*	9500	16½	4	20 1/16

BEGA

POLE TOP LUMINAIRES - 9057 MH

FINISHES : BEGA STANDARD COLORS

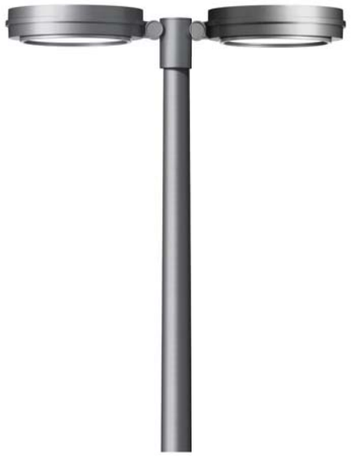
SILVER EUROCOAT BLACK

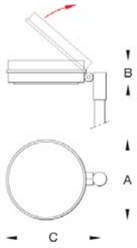
HOUSING: Die-cast aluminum housing and slip fitter. Slip fits 3" O.D. pole top, secures to pole with six stainless steel set screws. Die-cast aluminum knuckleallows for 0° or 15° tilt adjustment from horizontal. All aluminum used in the construction is marine grade and copper free.

ENCLOSURE: Faceplate is constructed of die-cast aluminum and is hinged for easymaintenance. The faceplate is secured to the housing with captive stainless steel fasteners. Tempered clear glass, 3/16" thick. Reflector is pure anodized aluminum. Fully gasketed with a molded silicone gasket.

ELECTRICAL: Lampholders; H.I.D. are medium base porcelain with nickel plated copper screw shell supplied with high temperature leads, pulse rated 4 KV. Ballasts are located in the base of the selected pole and are internal, magnetic HPF. Available in 120V, 208V, 240V, or 277V - specify.

FINISH: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order. U.L. listed, suitable for wet locations. Protection class: IP 65.





Single pole-top luminaires

	Lamp	Lumen	A	B	C
9222 MH	1 150W ED-17 MH*	13000	24½	5⅛	28

* Clear lamp required for optimum optical performance.

BEGA

POLE TOP LUMINAIRES - 9222 MH

FINISHES : BEGA STANDARD COLORS

SILVER EUROCOAT BLACK

HOUSING: Die-cast aluminum housing and slip fitter. Slip fits 3" O.D. pole top, secures to pole with six stainless steel set screws. Die-cast aluminum knuckle allows for 0° or 15° tilt adjustment from horizontal. All aluminum used in the construction is marine grade and copper free.

ENCLOSURE Faceplate is constructed of die-cast aluminum and is hinged for easy maintenance. The faceplate is secured to the housing with captive stainless steel fasteners. Tempered clear glass, 3/16" thick. Reflector is pure anodized aluminum. Fully gasketed with a molded silicone gasket.

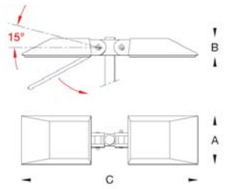
ELECTRICAL Lampholders; H.I.D. are medium base porcelain with nickel plated copper screw shell supplied with high temperature leads, pulse rated 4 KV. Ballasts are internal, magnetic HPF, located in the base of the selected pole. Available in 120V, 208V, 240V, or 277V - specify.

FINISH: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order. U.L. listed, suitable for wet locations. Protection class: IP 65.

OKLAHOMA CITY URBAN - STREETLIFE

lighting option 2

| timeless | clean | elegant | superior materials | performance |



Double pole-top luminaires

	Lamp	Lumen	A	B	C
8294 MH	2 150W ED-17 MH*	25000	13	5⅝	49½

*Coated lamps required for optimum optical performance.
Specify Type II or Type III distribution.

BEGA POLE TOP LUMINAIRES - 8294 MH

FINISHES : BEGA STANDARD COLORS

SILVER EUROCOAT BLACK

HOUSING/FITTER: One piece heavy die-cast aluminum construction with swivel arm and internal full semi specular anodized aluminum reflectors available in Type II and Type III distributions - specify. Swivelarm allows for 0° to 15° aiming positions. Integral fitter slip fits 3"O.D. pole top and is secured by eight (8) socket head stainless steel set screws threaded into stainless steel inserts.

ENCLOSURE: Door frames are diecast, hinged and latched for toolless entry. Lens is 3/16"clear tempered glass, sealed with one piece silicone gasket.

ELECTRICAL: Lampholders are medium base, rated 4 KV. Lampholders are porcelain with nickel plated copper screw shell, supplied. Ballasts are magnetic HPF, located in the luminaire and are available
in 120V, 208V, 240V or 277V - specify.

FINISH: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order. U.L. listed, suitable for wet locations, Protection class IP 65.

BEGA POLE TOP LUMINAIRES - 8295 MH

FINISHES : BEGA STANDARD COLORS

SILVER EUROCOAT BLACK

Pole top with shielded light sourceDesigned for the illumination of walkways, open pedestrian scale landscape areas, parking areas, and roadways featuring full cut-off light distribution. Pole top luminaires with Type II or Type III light distribution. Hinged door assembly with clear tempered glass diffuser. Protection class: IP 65

	Lamp	LEED	Lumen	A	B	C
8295MH Single	(1) 400W BT-28 MH	LZ-1	36000	16 1/8	6 1/2	29 7/8

Recommended Pole Options

916HR Straight round 16' pole

920HR Straight round 20' pole

926 Tapered r'nd 16' 7-7/8" pole

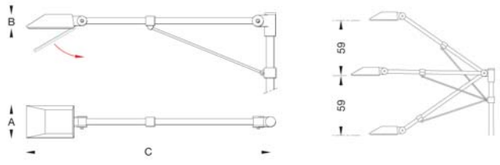
1708HR Tapered round 17' 8" pole

1908HR Tapered round 19' 8" pole

OKLAHOMA CITY URBAN - STREETLIFE

lighting option 3

| timeless | clean | elegant | superior materials | performance |



Single outrigger luminaires

	Lamp	Lumen	A	B	C
8052 MH*	1 100 W ED-17 MH	8800	13	5⅝	98⅜

BEGA POLE TOP LUMINAIRES - 8052 MH

FINISHES : BEGA STANDARD COLORS

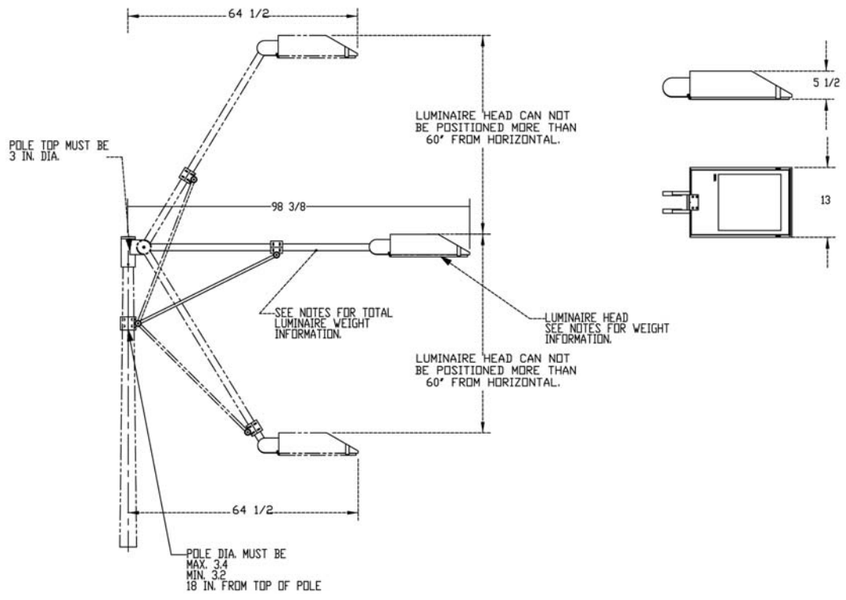
SILVER EUROCOAT BLACK

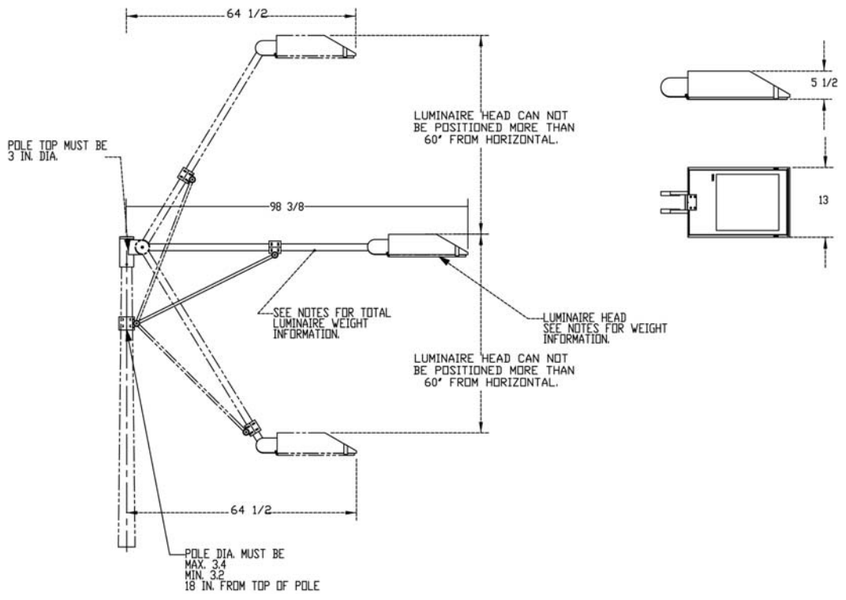
Luminaires: Luminaires are classified as full cut-off in straight down position, with Type II and Type III distributions available- specify. Luminaire housings are one piece heavy die-cast aluminum construction. Door frame is die-cast, hinged and latched for toolless entry. Lenses are 3/16" clear tempered glass, sealed with one piece silicone gasket. All hardware is stainless steel.

Arm assembly: Aluminum arm slip fits a 3" O.D. pole top. The Gantry System to be used with compatible poles only- consult factory for details. Unique moveable support strut and pole fitter swivel provide an adjustable mounting height of ± 60° from horizontal. This, combined with a 180° swivel at the fixture head, allows for infinite flexibility in the arm mounting height and the angle of the luminaire.

Electrical: Lampholders are medium base, rated 4 KV. Lampholders are porcelain with nickel plated copper screw shell supplied, rated 600V. Ballasts are located in the luminaire housing and are magnetic, available in 120 V, 208 V, 240 V, or 277 V HPF - specify. Coated lamp required for proper optical performance.

Finish: These luminaires are available in five standard BEGA colors: Black (BLK); White (WHT); Bronze (BRZ); Silver (SLV); Eurocoat™ (URO). To specify, add appropriate suffix to catalog number. Custom colors supplied on special order. U.L. listed, suitable for wet locations. Protection class IP 65.

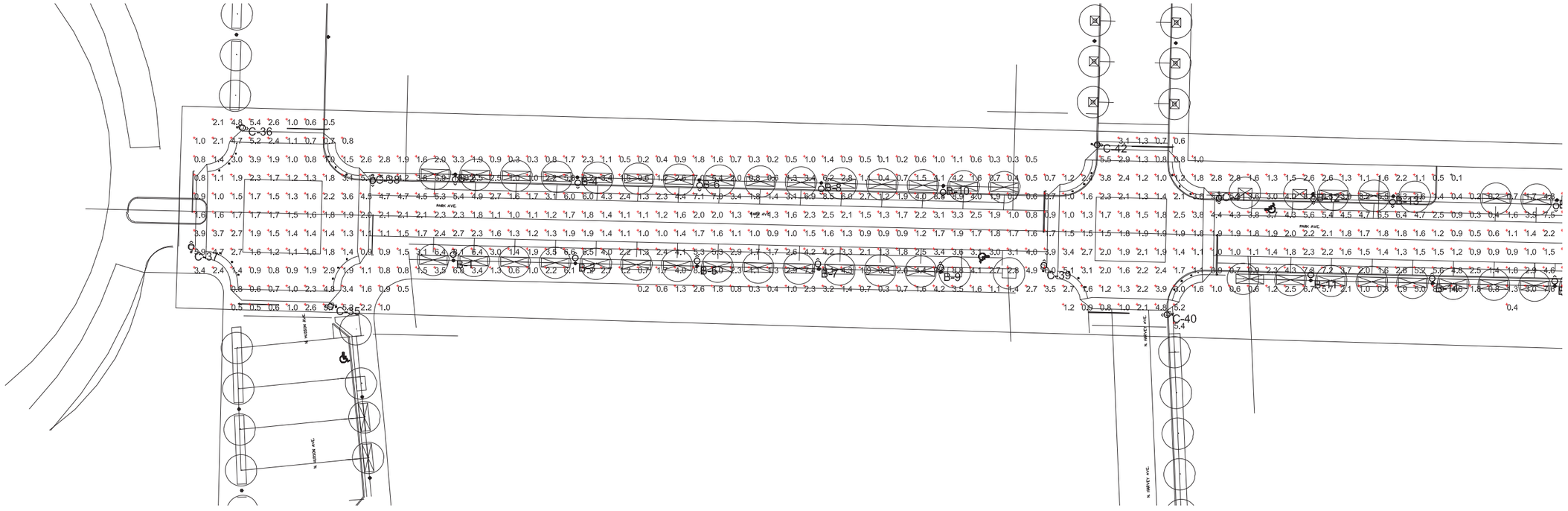




OKLAHOMA CITY URBAN - STREETLIFE

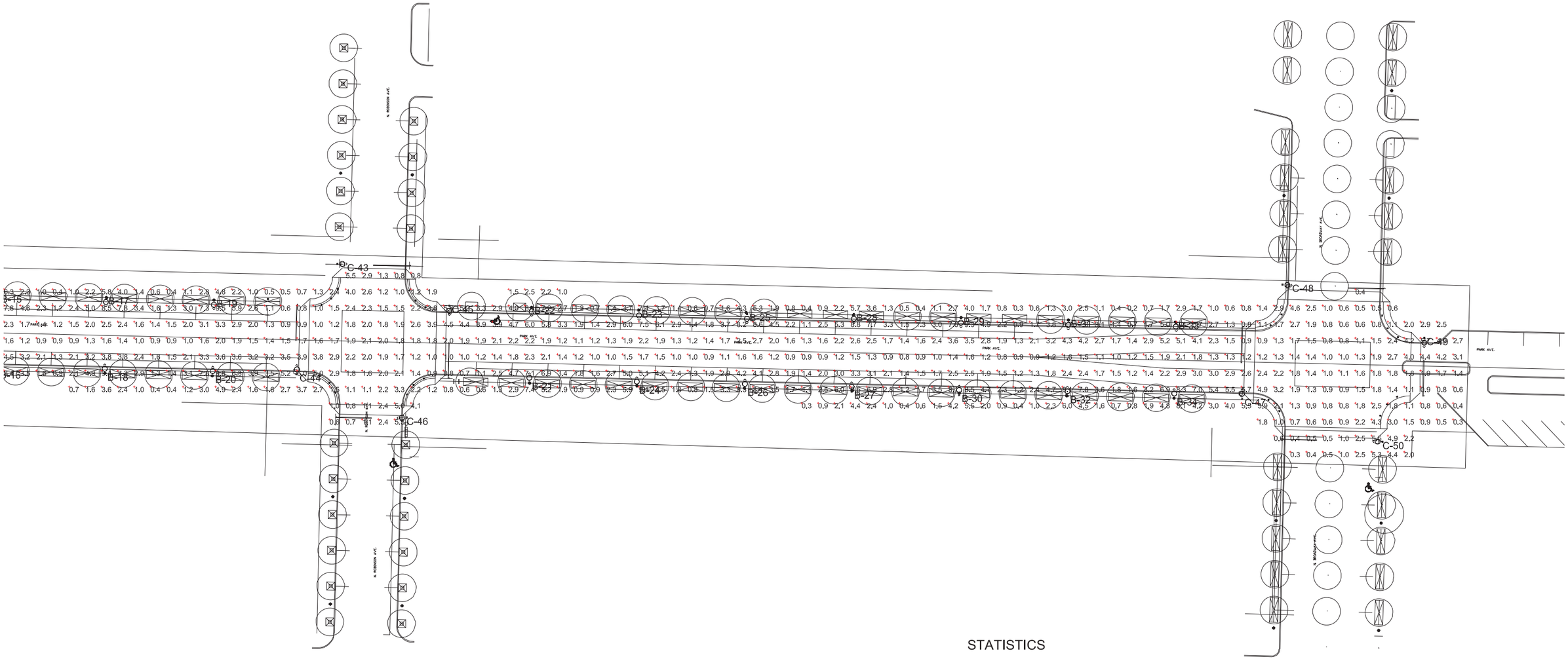
lighting photometric

| timeless | clean | elegant | superior materials | performance |



LUMINAIRE SCHEDULE

Symbol	Label	Qty	Catalog Number	Description	Lamp	File	Lumens	LLF	Watts
	B	34	9057MH	ADJUSTABLE POLE TOP W/ASYMMETRICAL DISTRIBUTION	(1) 100W ED-17 MH	9057MH.IES	9500	1.00	115
	C	16	9222MH	ADJUSTABLE POLE TOP W/ASYMMETRICAL DISTRIBUTION	(1) 150W ED-17 MH	9222MH.IES	13000	1.00	185



STATISTICS

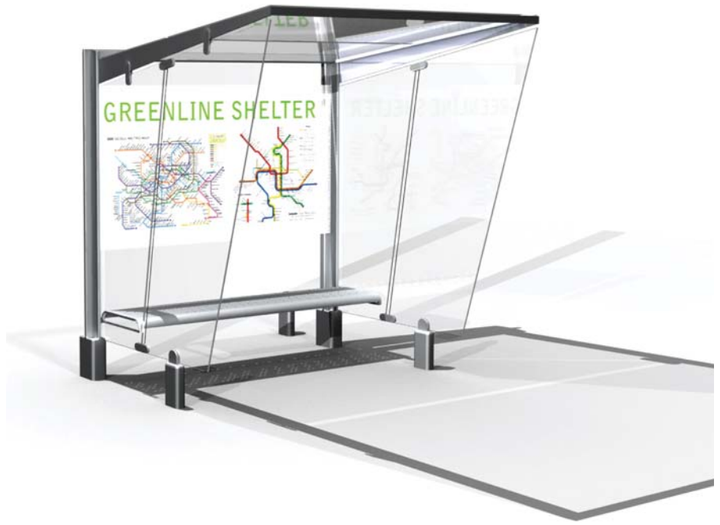
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
park ave	+	2.5 fc	10.0 fc	0.1 fc	100.0:1	25.0:1

OKLAHOMA CITY URBAN - STREETLIFE

bus shelter

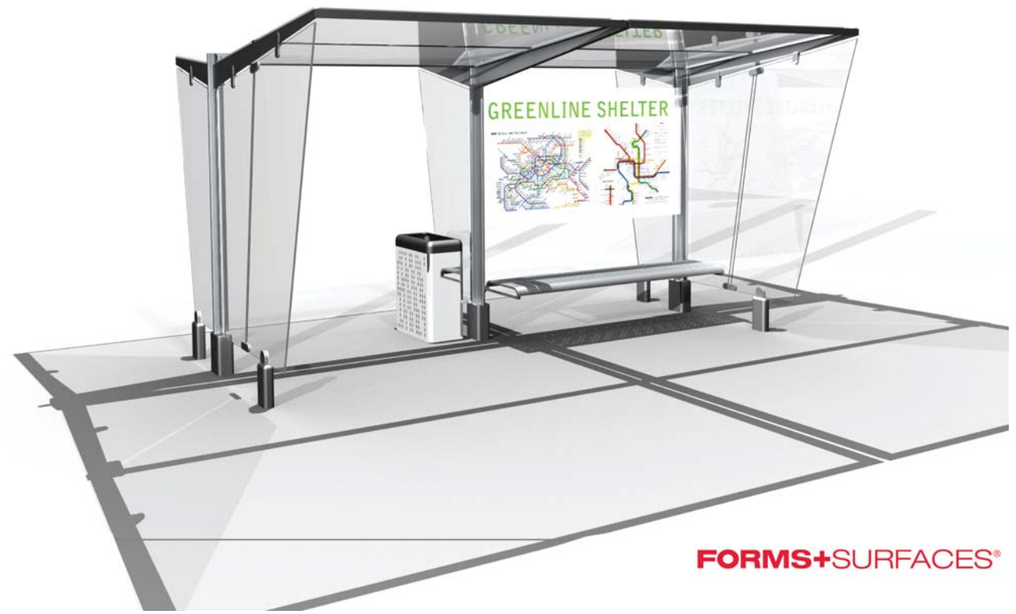
| timeless | clean | contemporary | superior materials | performance |

FORMS+SURFACES®



OKLAHOMA CITY URBAN - STREETLIFE bus shelter

| timeless | clean | contemporary | superior materials | performance |



STREETSCAPE AND STREET IMPROVEMENTS - OKLAHOMA CITY, OK

THE OFFICE OF JAMES BURNETT | MURASE ASSOCIATES | SPECK & ASSOCIATES, LLC

STEERING COMMITTEE MEETING # 7

OKLAHOMA CITY URBAN - STREETLIFE

seating option

| pure & simple | clean | elegant | attractive | green materials | high performance |

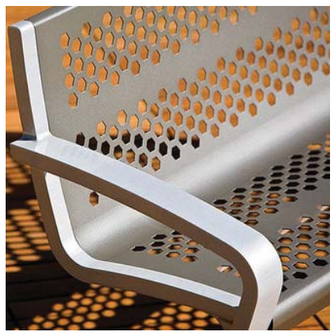
landscapeforms®

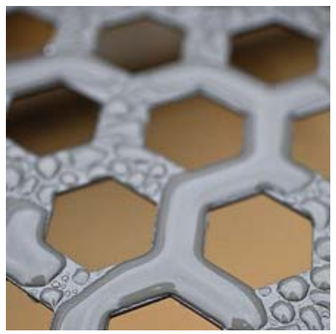
AUSTIN BENCH

Austin is a study in beautiful balance. Inspired by architecture of the 20s, and modern furniture of the 50s, it expresses familiar themes in thoroughly contemporary terms.

+ balance of lightness and substance, is relaxed, yet refined, poised but never boring
+ choice of materials and styles provides versatility while offering a common design vernacular
+ suitable for public and private spaces

Available backed or backless
Selection of interior and exterior woods (see materials link) or aluminum extruded boards Interior woods finished with Landscape Forms exclusive LF-80 wood finish, a clear catalyzed lacquer. Custom stain may be specified for maple and red oak for an upcharge. Exterior woods are sanded; no finishing is applied. Exterior woods will weather to soft, pewter gray. This is a natural process that will not affect the structural integrity of the product. Optional cast aluminum arms available for backed or backless benches: End arms only or end arms with center arm. Surface mount cantilever support or free-standing/surface mount support (with glides) All metal is finished with Landscape Forms' proprietary Pan-gard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading.





FORMS+SURFACES®

BALANCE BENCH

Bold and beautiful in form, the Balance Bench's cantilever frame is constructed of rustproof solid cast aluminum. Seats are made from corrosion-resistant Stainless Steel and may be specified in your choice of Stainless Steel finishes or powdercoat colors. Available in backed and backless versions, the Balance Bench is ideal for transportation centers, campuses, municipal spaces or any setting where robust construction and superb design are priorities.

Backed and backless benches in standard nominal 6' lengths
Rustproof cast Aluminum cantilever frame with durable powdercoat finish
Stainless Steel seats in Sandstone or Satin Stainless Steel finishes or powdercoat colors
Distinctive hexagonal perforations
Integral armrests
Surface mount
High recycled content / fully recyclable

FORMS+SURFACES®

CAMBER BENCH

A sleek interpretation of the classic park bench, the Camber's smooth lines and broad stance make it a striking and remarkably durable addition to any landscape. With its robust cast aluminum frame and FSC-Certified Ipé Wood or Aluminum slats, Camber is designed to weather the elements and provide many years of welcoming service in any public setting.

Frame is made of solid cast Aluminum with Powdercoat finish
Available with Extruded Aluminum slats or FSC Pure Ipé Wood slats
Can be freestanding or surface mounted
Camber™ metal components are up to 95% recycled content and are fully recyclable
Powdercoat is a no-VOC finish
All wood is FSC Pure
Low maintenance
Easy to disassemble

OKLAHOMA CITY URBAN - STREETLIFE

waste receptacles

| contemporary | clean lines | organic | superior materials | performance |

FORMS+SURFACES®

DISPATCH LITTER & RECYCLING RECEPTACLE

The Dispatch™ Receptacle combines distinctive design, robust materials and a versatile array of waste stream management options. Available in single-stream and split-stream versions, Dispatch can be configured for litter-only, recycling-only or for combined litter and recycling. Attractive, durable and highly adaptable, the Dispatch Receptacle is an ideal litter and recycling solution for any public space.

+ Rustproof cast Aluminum construction with durable powdercoat finish
+ Hinged side-access door for easy servicing
+ Stainless Steel hinge pins and cam latch
+ Single 45 gal liner for single-stream use or two 20 gal half-liners for split-stream use
+Recycle inserts available to limit openings to beverage containers or newspaper
+ Standard and custom graphics options
+ Freestanding or surface mount

landscapeforms®

CHASE PARK LITTER & RECYCLING RECEPTACLE

Designed and built to meet the rigors of urban spaces. Chase Park is a refreshing choice for municipalities, transportation hubs, retail areas and college campuses. Add a logo band to portray spirit and branding.

+ Both styles include black, polyethylene liner
+ Features hinged door that swings open for emptying; optional keyed lock for door
+ Optional sand pan, attached with cable, offered for side opening style
+ Optional logo band may be specified for both styles
+ Constructed of cast aluminum sides and door; spun aluminum top; cast iron base
+ Door hinge and latch are stainless steel
+ May be left freestanding or surface mounted on site
+All metal is finished with Landscape Forms' proprietary Pangard II® polyester powdercoat, a hard yet flexible finish that resists rusting, chipping, peeling and fading

Dimensions
Top opening 24"dia x 39"h
Side opening 24"dia. X 40"h

OKLAHOMA CITY URBAN - STREETLIFE

bike rack

| sculptural | contemporary | elegant | artistic | playful |

FORMS+SURFACES®

CAPITOL™ BIKE RACK

The Capitol™ Bike Rack is the ultimate in modern design. Its clean, bold lines are perfect for cityscapes and contemporary architectural settings. The design concept behind this rack is undeniable: less is certainly more. Speaking volumes in its simplicity, this rack will protect your property while showcasing impeccable style.

+ Cast Aluminum body with powdercoat finish
+ Surface mounted only
+ Capitol™ metal components are up to 95% recycled content and are fully recyclable
+ Powdercoat is a no-VOC finish
+ Low maintenance

landscapeforms®

BOLA™ BIKE RACK

Capacity: 2 bicycles
Supports bike upright by its frame in two places•
A standard D-shaped bike lock can be placed to secure both a wheel and the frame
Meets Association of Pedestrian and Bicycle Professionals (APBP) recommendations
Refer to assembly instructions for suggested spacing on site
Constructed of 1.5" o.d. x .120" wall tubing
Powdercoated steel or stainless steel
Manufactured in Kalamazoo, MI, U.S.A.
Sustainability and LEED
Bola bike rack is 100% recyclable.

Dimensions
Installed: 1-1/2" d x 27-1/2" w x 32" h

3 VEGETATION

OKLAHOMA CITY URBAN - STREETLIFE

trees

| shade | colorful | sinewy | graceful | arching | bold |

AUTUMN BLAZE MAPLE

CHINESE PISTACHE

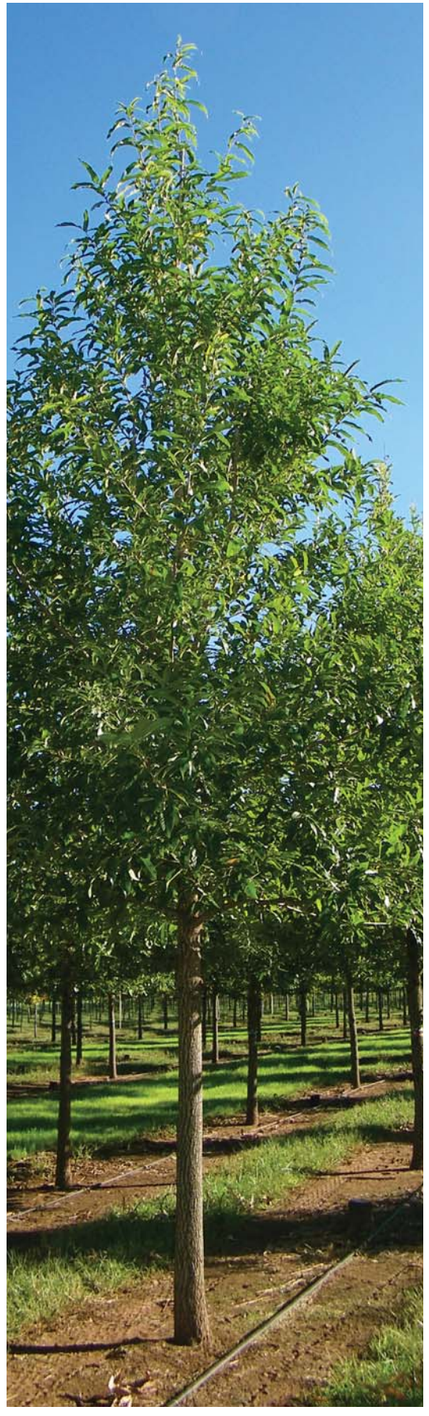
SHUMARD RED OAK

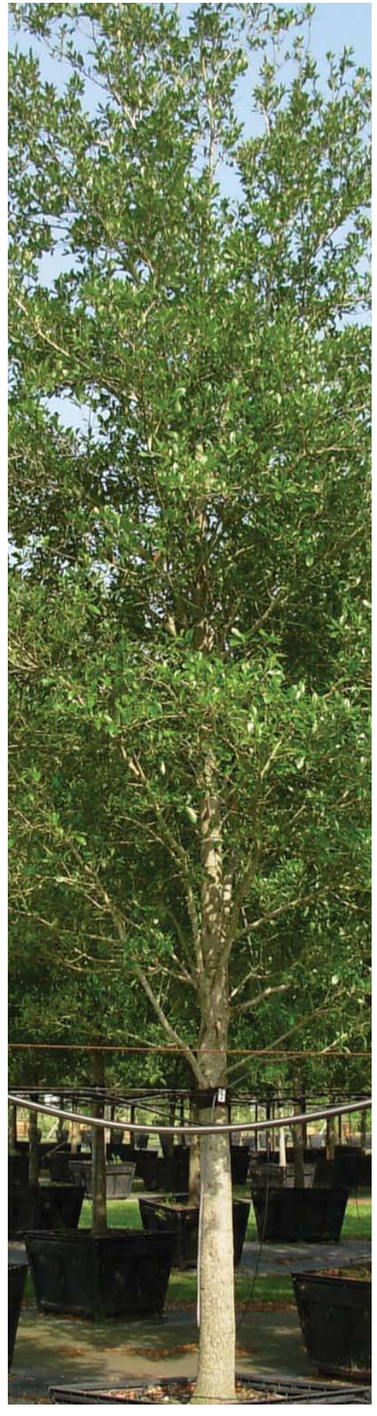
ALLEE ELM

CATHEDRAL LIVE OAK

SHAWNEE BRAVE BALD CYPRESS

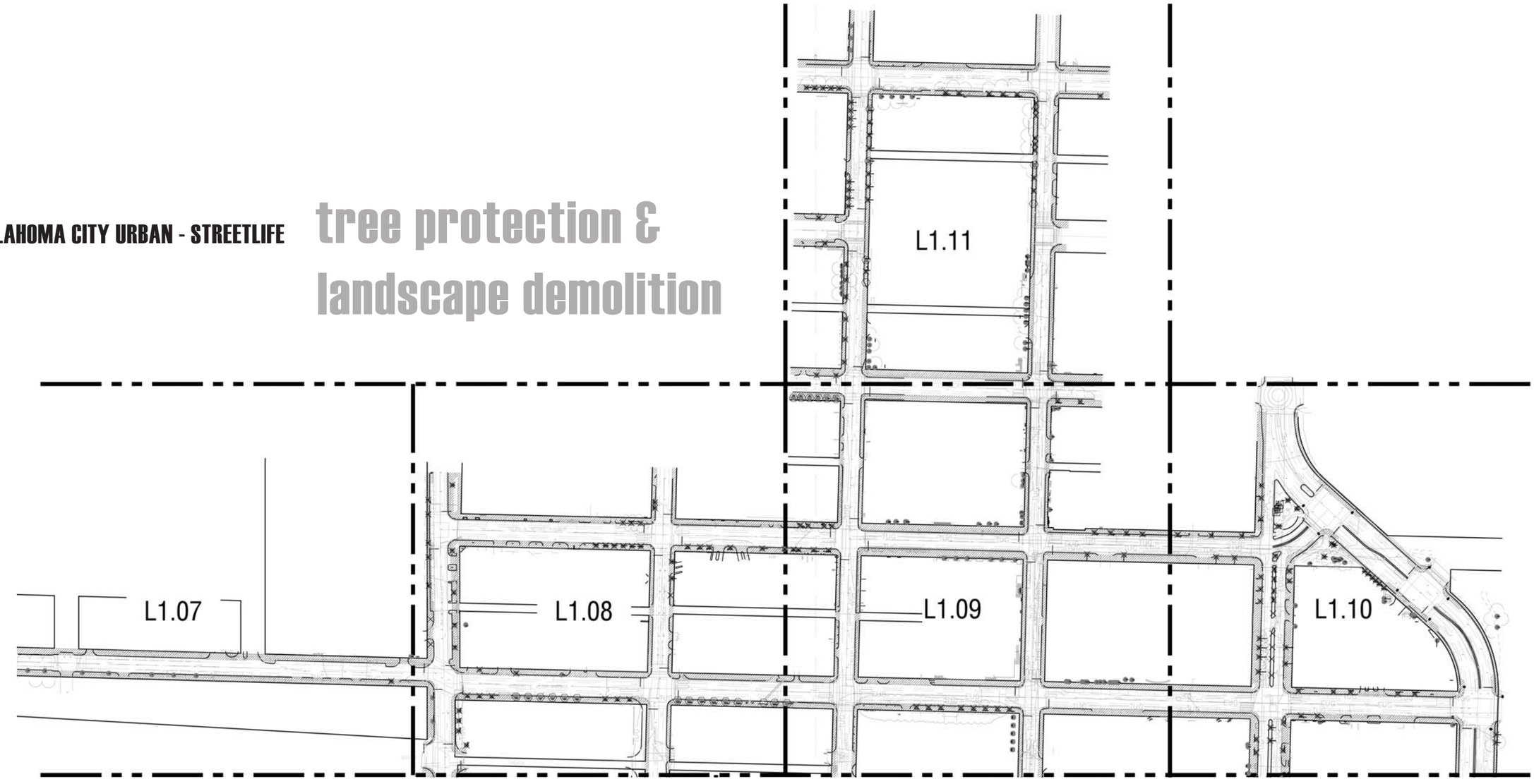


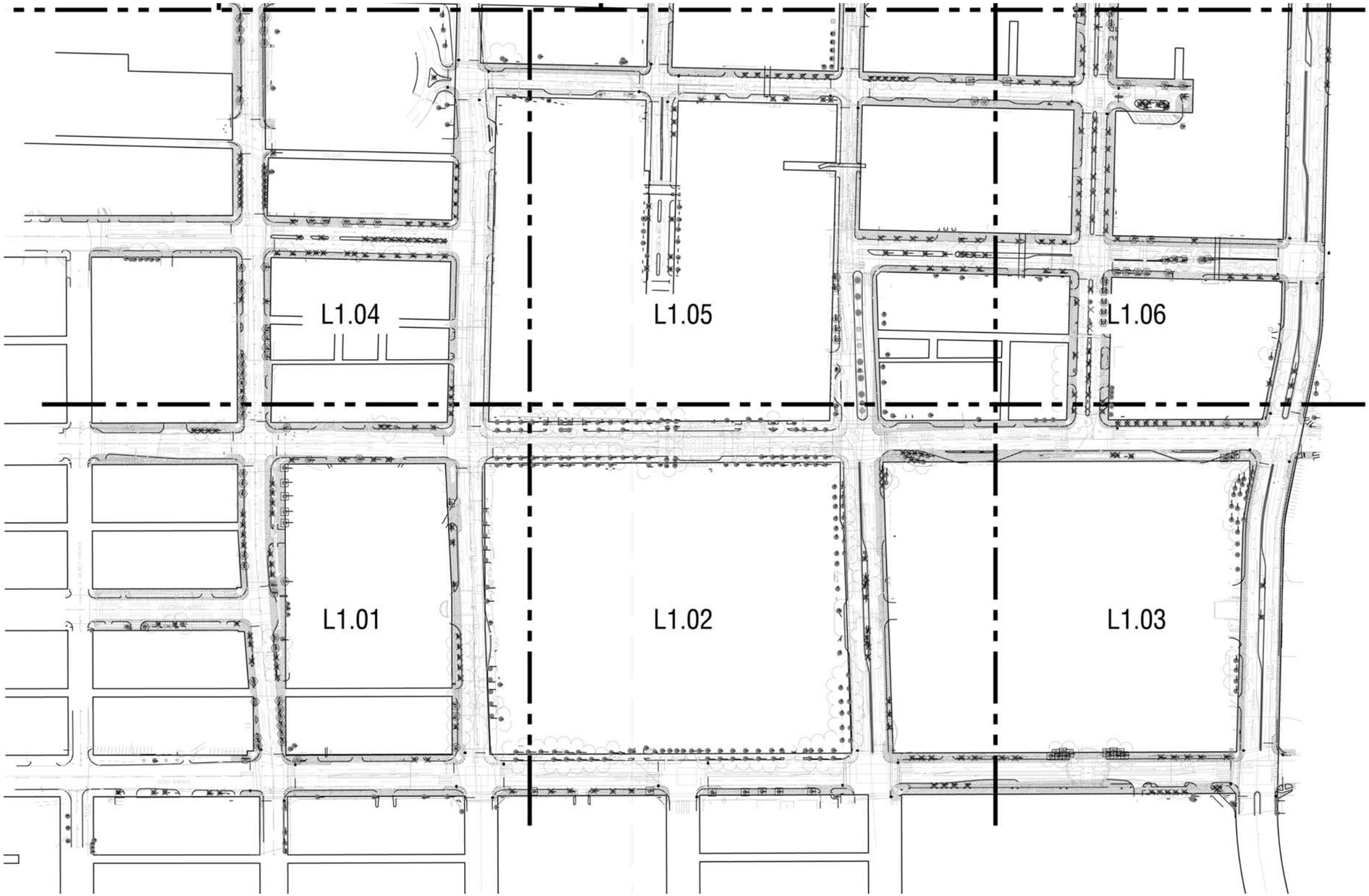





OKLAHOMA CITY URBAN - STREETLIFE

tree protection & landscape demolition





TREE PROTECTION/DEMO LEGEND

- EXISTING TREE TO BE REMOVED.
- NOTE: CONFIRM ALL TREES TO BE REMOVED WITH ARCHITECT PRIOR TO REMOVAL. DO NOT REMOVE TREES WITHOUT APPROVAL.
- TREE PROTECTION FENCING
- TREE TO BE RELOCATED
- EXISTING BUILDING, PROTECT IN PLACE UNLESS NOTED OTHERWISE
- DEMOLITION AREA

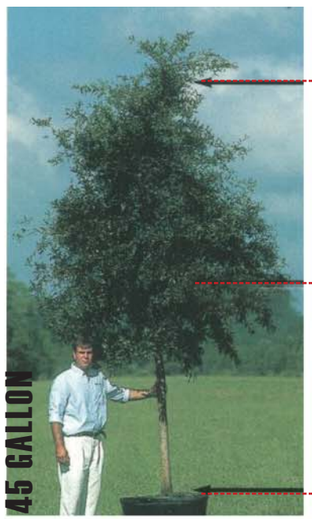
DEMOLITION NOTES

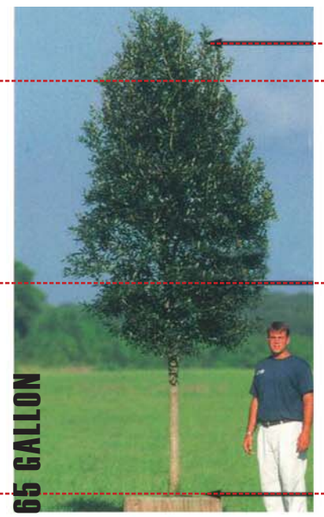
1. CONTRACTOR RESPONSIBLE FOR VERIFYING ALL EXISTING CONDITIONS PRIOR TO BID/ WORK.
2. CONTRACTOR RESPONSIBLE FOR COORDINATING, RELOCATING, OR REMOVING ANY ITEMS NOT NOTED ON DRAWINGS TO ACHIEVE DESIGN INTENT OF DRAWINGS.
3. CONTRACTOR TO VERIFY ITEMS TO BE REMOVED WITH THE CITY OF OKLAHOMA CITY. VERIFY ITEMS TO BE SALVAGED AND PROVIDED TO THE CITY OF OKLAHOMA CITY.
4. CONTRACTOR TO REMOVE ALL MATERIAL TO BE DEMOLISHED OFF SITE.
5. CONTRACTOR TO REMOVE EXISTING CONCRETE WALK AS SHOWN. SAW CUT DEMO BREAKS CLEAN.
6. CONTRACTOR RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES.
8. CONTRACTOR RESPONSIBLE FOR PROTECTING ALL EXISTING TREES AS NOTED.
9. RE: HARDSCAPE PLANS FOR SPECIFIC DIMENSIONS FOR PROPOSED WORK AND DEMO COORDINATION.

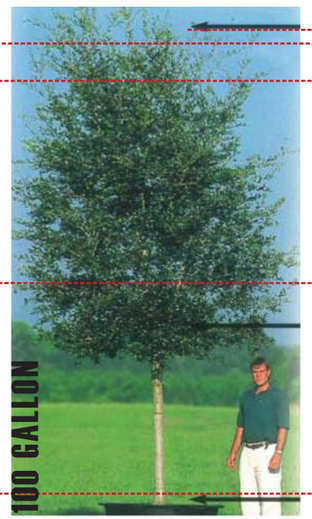
OKLAHOMA CITY URBAN - STREETLIFE

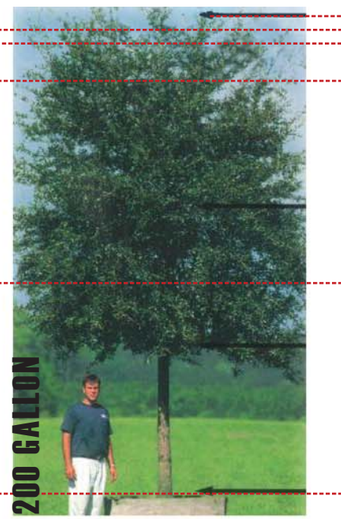
tree size comparison

| shade | colorful | sinewy | graceful | arching | bold |









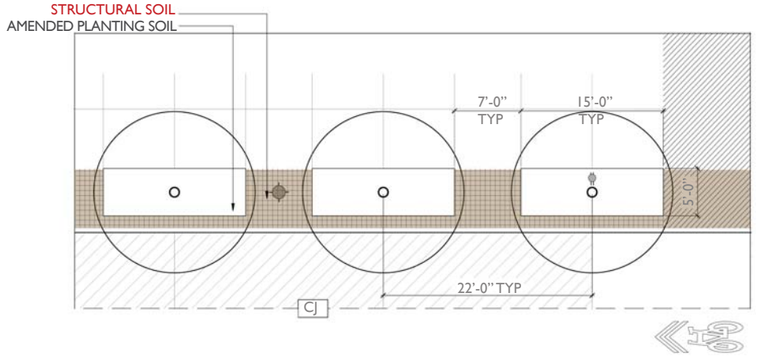
17’
15’
14’
12’
6’
0’

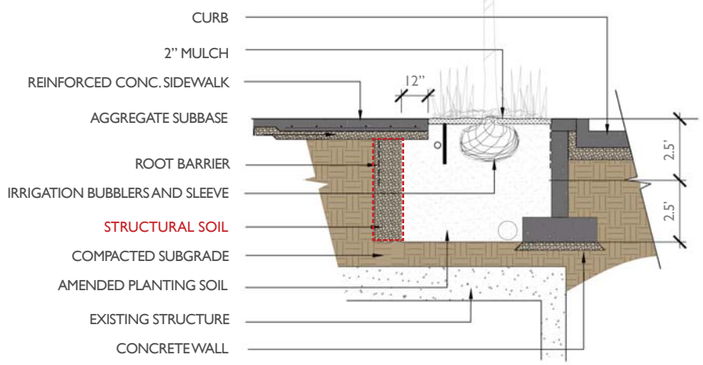
	45 GALLON	65 GALLON	100 GALLON	200 GALLON
+ CALIPER	2 1/2” - 3”	3-3 1/2”	4”	5”
+ HEIGHT	10’-12’	12’-14’	14’-16’	16’-18’
+ SPREAD	4’-5’	6’-8’	8’-10’	10’-12’

STRUCTURAL SOILS : HOW DO THEY WORK?

STRUCTURAL SOIL MIXES ARE TWO-PART SYSTEMS COMPRISING A STONE LATTICE FOR STRENGTH AND SOIL FOR HORTICULTURAL NEEDS. STRUCTURAL SOILS DEPEND ON A LOAD-BEARING STONE LATTICE TO SUPPORT THE PAVEMENT. THE LATTICE PROVIDES STABILITY THROUGH STONE-TO-STONE CONTACTS WHILE ALLOWING INTERCONNECTED VOIDS FOR ROOT PENETRATION, AIR, AND WATER MOVEMENT. THE FRICTION BETWEEN THE STONES PROVIDES THE STRENGTH. A NARROW PARTICLE SIZE DISTRIBUTION OF THE STONE IS CHOSEN TO PROVIDE A UNIFORM SYSTEM OF HIGH POROSITY AFTER COMPACTION. THE SYSTEM ASSUMES FULL COMPACTION TO CONSTRUCTION STANDARDS, BUT ANGULAR STONE IS SELECTED TO INCREASE THE POROSITY OF THE COMPACTED STONE LATTICE. AS THE STONE IS THE LOAD-BEARING COMPONENT OF THE SYSTEM, THE AGGREGATES SHOULD MEET REGIONAL STANDARDS FOR AGGREGATE SOUNDNESS AND DURABILITY REQUIREMENTS FOR PAVEMENT BASE AGGREGATES.

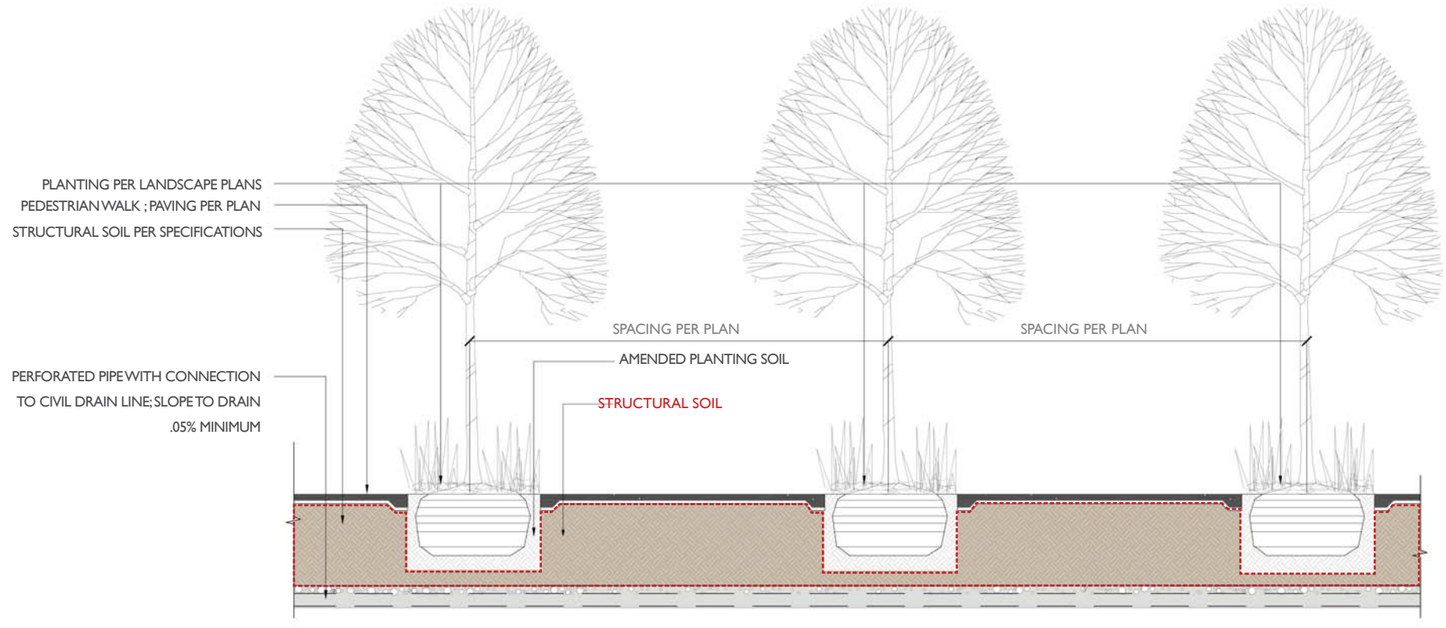
TEXT FROM LANDSCAPE ARCHITECTURAL GRAPHIC STANDARDS

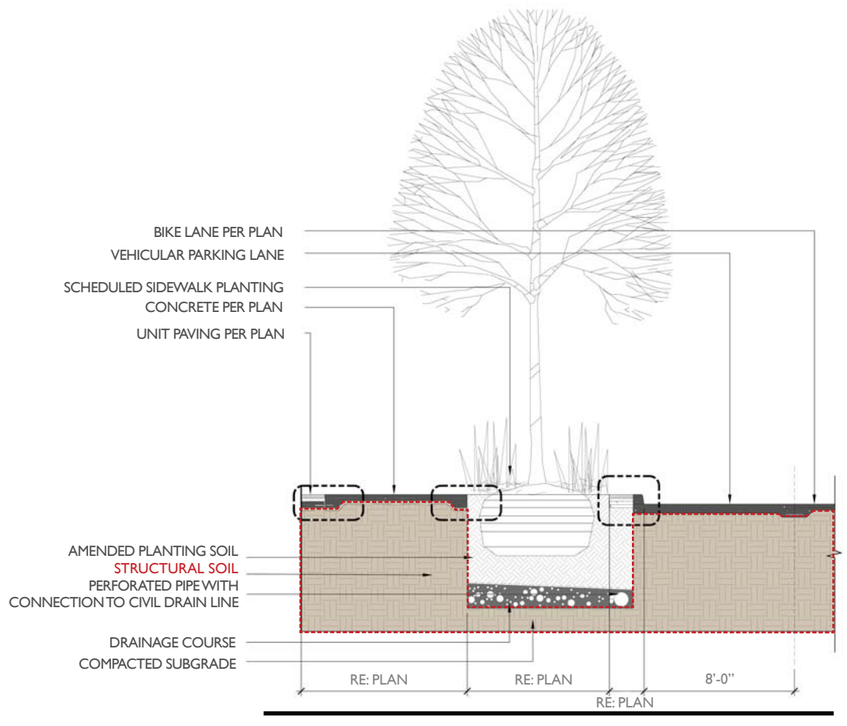




PLAN 01 STRUCTURAL SOIL

SECTION 01 STRUCTURAL SOIL





SECTION 02 TYPICAL ROADWAY

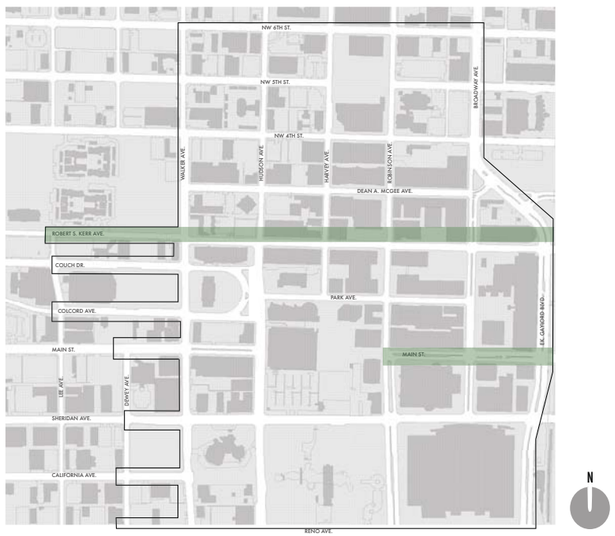
SECTION 03 TYPICAL ROADWAY

T1

AUTUMN BLAZE MAPLE

Scientific Name: *Acer x freemanii*
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM	Oval to rounded.
SIZE	40 to 60 feet tall and 30 to 40 feet wide.
LEAVES	Deciduous. Deep red fall color. Medium to green leaves with a pale silver underside.
BARK	Smooth light gray becoming dark gray and scaly at maturity.
FRUIT	Samara
GROWTH RATE	Medium
DESCRIPTION	A beautiful and elegant tree. Tightly pyramidal with deep, intense fall color, requires slightly acidic and well drained soils. Many of its features, especially its leaves, are quite variable in form. At maturity it often attains a height of around 15.24 meters (50 ft). It is aptly named as its flowers, petioles, twigs and seeds are all red to varying degrees. Among these features, however , it is best known for its brilliant deep scarlet foliage in autumn.
SPECIES LOCATION	



T2

CHINESE PISTACHE

Scientific Name: *Pistacia chinensis* (MALE TREES ONLY)
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM

SIZE

LEAVES

BARK

FRUIT

GROWTH RATE

DESCRIPTION

Oval to rounded. Unruly growth in youth.

30 to 35 feet tall and 20 to 35 feet wide.

Deciduous. Deep green in the summer. Variable fall color from yellow to fire red.

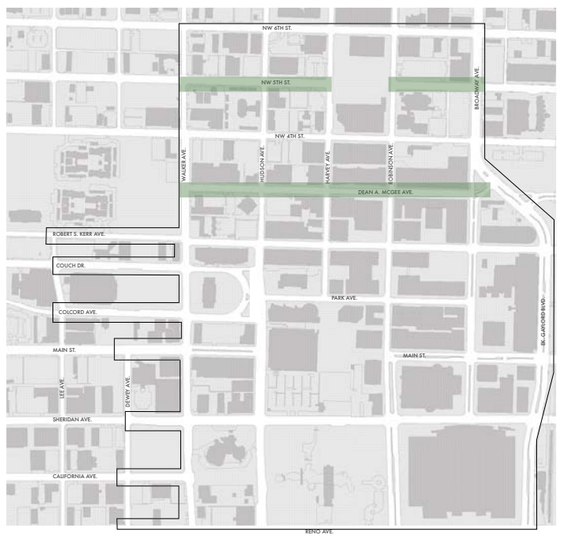
Shallow furrows becoming scaly. Exfoliating bark that exposes a pink to orange bark.

A cluster of showy red fruit.

Medium to fast.

Although somewhat awkward in its juvenile form, this tree develops into a handsome and tidy canopy with age. A highly adaptable tree that can withstand the harshest of conditions. Chinese Pistache grows best in full sun, being intolerant of shade; it is the most frost-tolerant species of Pistacia, tolerating temperatures down to about -25°C. Fall color is variable but can be outstanding. It is planted for its impressive fall colors.

SPECIES LOCATION



T3

SHUMARD RED OAK

Scientific Name: *Quercus shumardii*
100 Gallong
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM

Oval to rounded.

SIZE

82 to 110 feet tall and 39 to 59 feet wide.

LEAVES

Deciduous. Deeply-lobed, Leaves turn brown-red in fall.

BARK

Smoothish when young, then breaking into vertical ridges.

FRUIT

Acorn

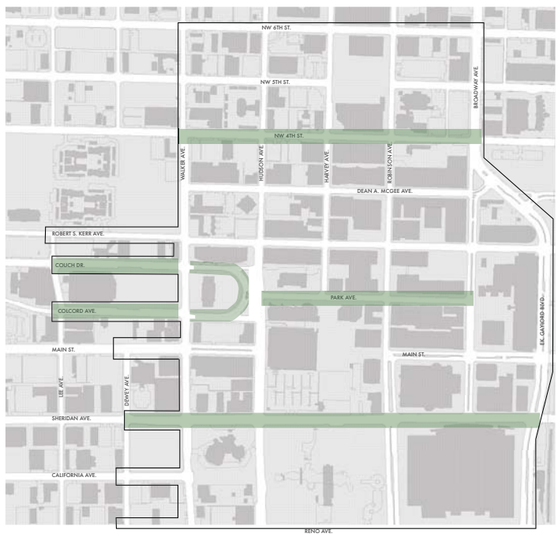
GROWTH RATE

Fast

DESCRIPTION

Shumard Oak is valued for commercial use, as a shade tree, and as a food source for various birds and mammals. It is tolerant of wide ranges of pH levels in soil. It is drought-resistant, and prefers partial to full sunlight. Shumard Oaks begin to bear seeds at a minimum of 25 years of age, and the optimum age for seed development is 50 years of age. Shumard Oaks are known to have reached at least 480 years of age. The roots are intolerant to disturbance, so the tree should be planted in its permanent position at an early age.

SPECIES LOCATION

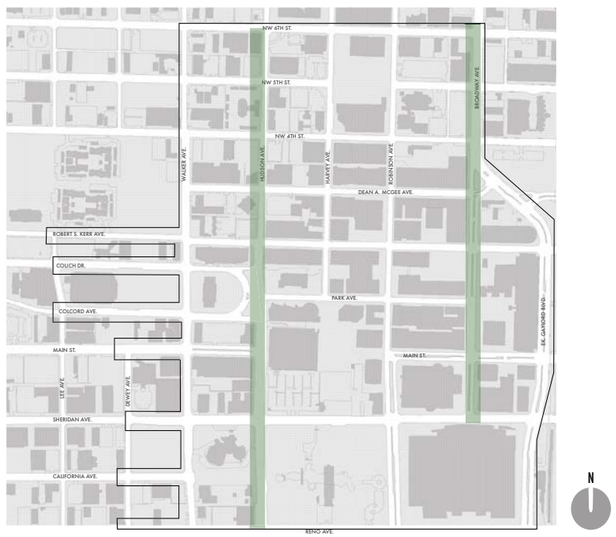


T4

CATHEDRAL LIVE OAK

Scientific Name: *Quercus virginiana* 'CATHEDRAL'
200 Gallon
5"-6" Caliper
15'-17' Height
10'-12' Spread

FORM	Oval to rounded.
SIZE	28 to 35 feet tall and 18 to 20 feet wide.
LEAVES	Leaves are strikingly dark green, 2 to 3 inches long, 1/2 to 2-1/2 inches wide, oval to elliptical-shaped, with an obtuse apex. Leaf bases are acutely wedge-shaped.
BARK	The bark is dark red-brown, up to 1 inch thick, somewhat furrowed, and separating into small scales.
FRUIT	Fruit is an acorn, usually on long-stalked clusters of 3 to 5. The nut is ellipsoid or ovoid, brownish-black, and 1 inch long.
GROWTH RATE	Medium
DESCRIPTION	A vibrant clonal Live Oak, the Cathedral will provide a consistent uniform look, and will make a wonderful street tree, parking lot tree, or specimen tree whenever a large maturing evergreen shade tree is desired. Cathedral Oak has a full-growth habit that will make it an instant hit and a lasting knockout in the landscape.
SPECIES LOCATION	

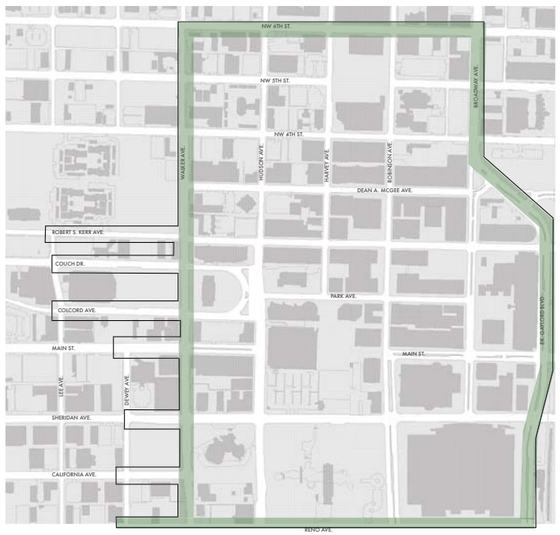


T5

SHAWNEE BRAVE BALD CYPRESS

Scientific Name: *Taxodium distichum* 'SHAWNEE BRAVE'
100 Gallon
3.5"-4" Caliper
14'-15' Height
7'-9' Spread

FORM	Pyramidal habit.
SIZE	40 to 60 feet tall and 35 feet wide.
LEAVES	Deciduous. Deep sage green frawns turning orange to brown in the fall.
BARK	Reddish brown exfoliating in long strips. The trunk becomes buttressed at the base. Develops "knees" in saturated soils. Very distinctive.
FRUIT	Cones, ¾ to 1 ½ across. Green to purple, brown at maturity.
GROWTH RATE	Fast
DESCRIPTION	An upright deciduous conifer that tolerates wet sites. Light feathery needles and exfoliating bark in large longitudinal strips Highly aromatic in the fall during leaf drop.
SPECIES LOCATION	

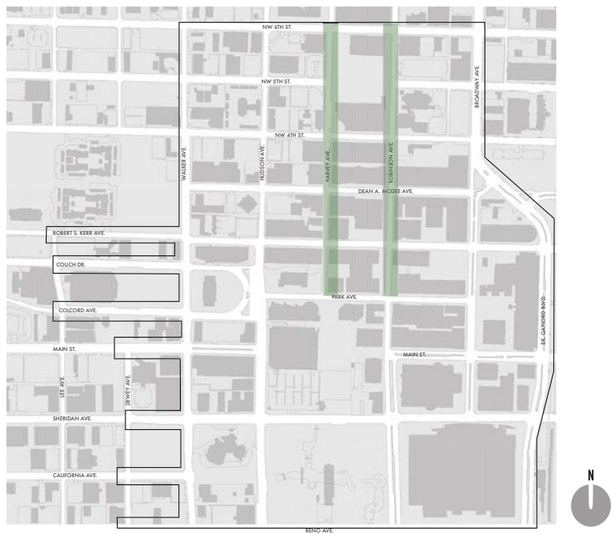


T6

ALLEE ELM

Scientific Name: *Ulmus parvifolia 'ELMER II'*
100 Gallon
3.5"-4" Caliper
14'-15' Height
7'-9' Spread

FORM	Upright and spreading.
SIZE	40 to 50 feet tall and equally as wide.
LEAVES	Deciduous. Lustrous dark green, changing to yellow to purplish-brown in the fall.
BARK	Exfoliating. Light gray, orange and brown. Trunk becoming fluted with age.
FRUIT	The fruit of the Allee Elm is insignificant, but yields a heavy crop of papery, disc-winged seeds about 1/3 inch long that appear in late fall.
GROWTH RATE	Medium
DESCRIPTION	Bright green lustrous leaves emerging from upright arching branches. Planting along a street or avenue will develop a cathedral effect. This selection has many exciting attributes; resistance to Dutch Elm Disease, exfoliating bark revealing an orange-brown to tan feature, vase shaped long arching branches, and a tree that can withstand harsh conditions.
SPECIES LOCATION	

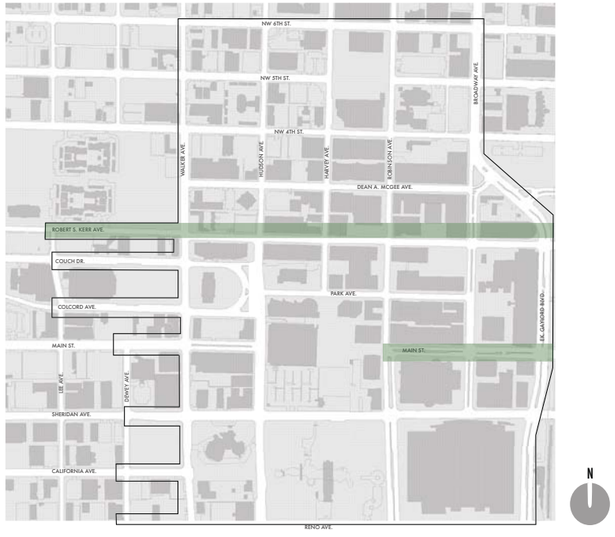


ALTERNATIVE 1

OCTOBER GLORY MAPLE

Scientific Name: *Acer rubrum*
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM	Oval to rounded
SIZE	40 to 50 feet tall and 25-35 feet wide.
LEAVES	Deciduous. Deep red fall color. Medium to green leaves with a pale silver underside.
BARK	Smooth light gray becoming dark gray and scaly at maturity.
FRUIT	Samara
GROWTH RATE	Medium
DESCRIPTION	A rapid growing Red Maple cultivar. Glistening dark green leaves in spring, summer turn radiant red late fall and last several weeks. Tiny, conspicuous red flowers bloom in spring. Showy red fruit attract many birds and other wildlife. Tolerant of many soils, but prefers slightly acid and moist conditions. Plant in partial shade to full sun.
SPECIES LOCATION	

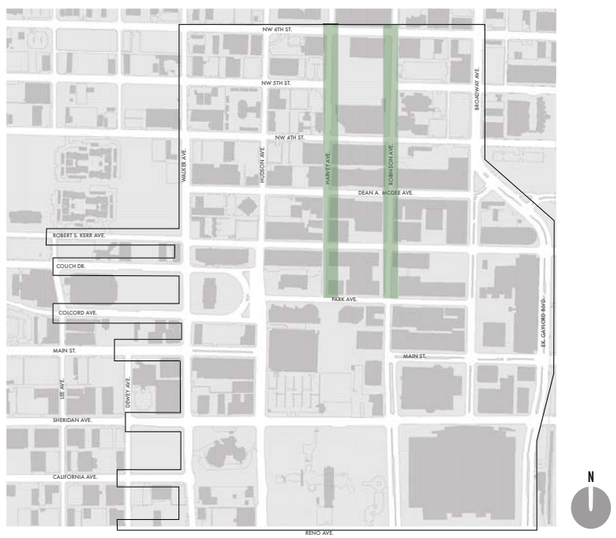


ALTERNATIVE 2

PURPLE ROBE LOCUST

Scientific Name: *Robinia pseudoacacia*
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM	Irregular outline, growing upright with an opened crown.
SIZE	30-50 Feet
LEAVES	Odd pinnately compound, blue-green to green, turning into a yellow fall color.
BARK	Gray with orange-yellow lenticels.
FRUIT	Pod, black and red, dry and hard, attracts birds, squirrels and other mammals.
GROWTH RATE	Fast
DESCRIPTION	Optimum growth occurs in part shade/part sun as well as full sunlight. The locust does well in a wide variety of soils, and has a high drought tolerance. During flowering in late spring, the trees will be covered with dense clusters of extremely fragrant pink blossoms.
SPECIES LOCATION	



ALTERNATIVE 3

CHINKAPIN OAK

Scientific Name: *Quercus muehlenbergii*
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM

Oval to rounded.

SIZE

40 to 50 feet tall and 35 feet wide.

LEAVES

A medium to large size oak with 4”-6 1/2” glistening dark green leaves in summer turning yellow-orange to orangish-brown in fall.

BARK

Reddish brown exfoliating in long strips. The trunk becomes buttressed at the base. Develops “knees” in saturated soils. Very distinctive.

FRUIT

Acorn

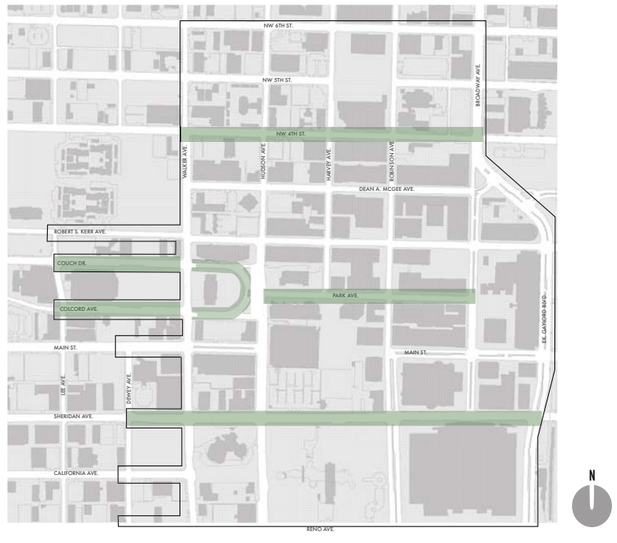
GROWTH RATE

Fast

DESCRIPTION

A tree with light gray platy or scaly bark and smooth, gray twigs changing to brown on the current year’s leaf-bearing growth. Larger leaves broadly rounded from the widest part to the apex and tapered to the base, the smaller ones narrower, leaf margins shallowly lobed or coarsely toothed, each lobe or tooth with a minute tip; the upper surface smooth, with a sheen, the lower surface dull. Flowers inconspicuous in narrow clusters. Fruit an acorn up to 1 inch long and 3/4 inch wide.

SPECIES LOCATION

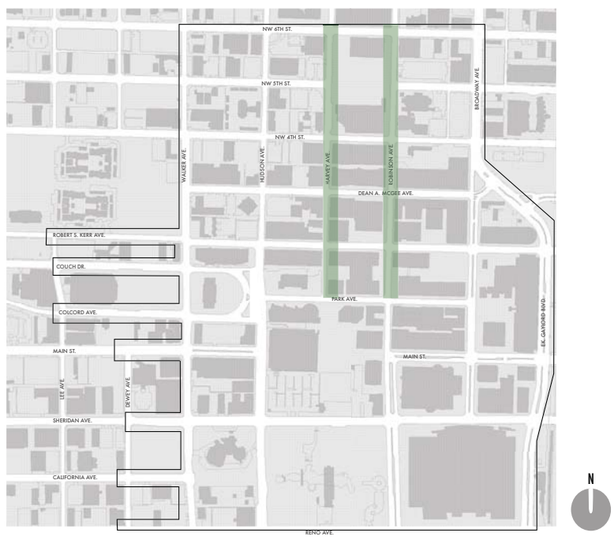


ALTERNATIVE 4

TULIP TREE

Scientific Name: *Liriodendron tulipifera*
100 Gallon
3.5”-4” Caliper
14’-15’ Height
7’-9’ Spread

FORM	Oval
SIZE	80-100 Feet Height, 30 to 50 Feet Wide
LEAVES	Have four lobes in most cases and a cross-cut notched or straight apex. Leaf size varies from 8-22 cm long and 6-25 cm wide.
BARK	Bark furrows are deep, ridges tend to form diamond patterns.
FRUIT	Attracts birds; inconspicuous and not showy
GROWTH RATE	Fast
DESCRIPTION	Easily recognized by their general shape, with the higher branches sweeping together in one direction, and they are also recognizable by their height, as the taller ones usually protrude above the canopy of oaks, maples, and other trees.
SPECIES LOCATION	



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