

# NOTICE OF ADDENDA #1

## Invitation to Bid No. 2020/21-09 5<sup>TH</sup> STREET PARKING LOT CONSTRUCTION

This one (1) page must be completed and submitted with  
all other documents in the Proposal Package

By signing this page and submitting a proposal, vendor hereby acknowledges that it/they have read and understand all terms, conditions, and requirements set forth in the Invitation to Bid and the attached addendum #1. In addition, acknowledges the addenda(s) that have been issued.

### Offeror Information:

Signature: \_\_\_\_\_

Print Name & Title: \_\_\_\_\_

Firm Name: \_\_\_\_\_

Mailing Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Phone & Fax:  
\_\_\_\_\_

Email Address: \_\_\_\_\_

## ***ADDENDA NO 1***

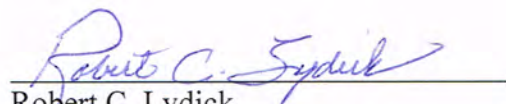
5<sup>TH</sup> Street and Gidding Street  
Parking Lot Improvement Project  
City of Clovis, New Mexico  
Curry County Bid #ITB-2020-21-09

May 06, 2021

All prospective bidders on this subject project are hereby notified of the following addition to the Project plans and specifications:

SECTION 6- Supplemental Specifications for site lighting luminaires and light poles. Also included are installation instructions for weed mat in crusher fine areas, tree planting and sidewalk shields.

Your attention to this addenda items is appreciated.



Robert C. Lydick,  
Project Engineer for  
Curry County

**SECTION 6**

**SUPPLEMENTAL SPECIFICATIONS**

The following page contains Supplemental Specifications to the New Mexico State Highway Department Standard Specifications for Road and Bridge Construction, Edition of 2019, for this project.

Section Number	Name	Revision
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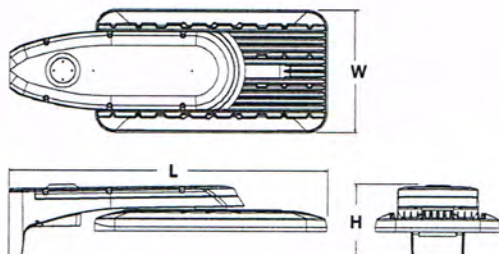


## KAX LED Size 2 LED Area Luminaire



### Specifications

<b>EPA:</b>	1.1 ft <sup>2</sup> (0.1 m <sup>2</sup> )
<b>Length:</b>	34" (86.4 cm)
<b>Width:</b>	13" (33 cm)
<b>Height:</b>	8" (20.3 cm)
<b>Weight (max):</b>	41 lbs (18.6 kg)



### CSA+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a shaded background. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability<sup>1</sup>
- This luminaire is part of an A+ Certified solution for ROAM® or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a shaded background<sup>1</sup>

To learn more about A+, visit [www.acuitybrands.com/aplus](http://www.acuitybrands.com/aplus).

1. See ordering tree for details.
2. A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

A+ Capable options indicated by this color background.

### Ordering Information

**EXAMPLE: KAX2 LED P2 40K R3 MVOLT SPA DDBXD**

#### KAX2 LED

Series	Performance package	Color Temperature	Distribution	Voltage	Mounting
KAX2 LED	P1	30K 3000 K	R3 Type 3	MVOLT <sup>1</sup>	<b>Shipped included</b> SPA Square pole mounting RPA Round pole mounting (includes round and square mounting)
	P2	40K 4000 K	R4 Type 4	120 <sup>2</sup>	
	P3	50K 5000 K	R5 Type 5	208 <sup>3</sup> 240 <sup>3</sup> 277 <sup>2</sup> 347 <sup>2</sup> 480 <sup>3</sup>	

Control options	Other options	Finish options
<b>Shipped installed</b> PER NEMA twist-lock receptacle only (Controls order separate) <sup>4,5,6</sup> PER5 Five-wire receptacle only (Controls order separate) <sup>4,5,6</sup> PER7 Seven-wire receptacle only (Controls order separate) <sup>4,5,6</sup> PIR Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5fc <sup>7,8</sup> PIRH Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5fc <sup>7,8</sup> PIR1FC3V Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc <sup>7,8</sup> PIRH1FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc <sup>7,8</sup> FAO Field adjustable output <sup>9</sup>	<b>Shipped installed</b> HS House-side shield <sup>10</sup> SF Single fuse (120, 277, 347V) <sup>2</sup> DF Double fuse (208, 240, 480V) <sup>3</sup> TILT Tilt arm <b>Shipped separately</b> BS Bird spikes <sup>10</sup> EGS External glare shield <sup>10</sup>	DDBXD Dark bronze DBLXD Black DNAXD Natural aluminum <b>DWHXD White</b> DDBTXD Textured dark bronze DBLTXD Textured black DNATXD Textured natural aluminum DWHGXD Textured white





## Ordering Information

### Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photozell - SSL twist-lock (120-277V) <sup>11</sup>
DLL347F 1.5 CUL JU	Photozell - SSL twist-lock (347V) <sup>11</sup>
DLL480F 1.5 CUL JU	Photozell - SSL twist-lock (480V) <sup>11</sup>
DSHORT 5BK U	Shorting cap <sup>11</sup>
KMA DDBXD U	Mast arm mounting bracket adaptor (specify finish) <sup>12</sup>
KAX2HS P1 U	House-side shield (P1)
KAX2HS P2 U	House-side shield (P2)
KAX2EGS U	External glare shield
KAYBS U	Bird spikes
RK1 KAX2WBA U	Wall mount bracket

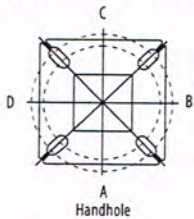
For more control options, visit [DTL](#) and [ROAM](#) online.

### NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- Must specify 120, 277, or 347V when ordering SF option.
- Must specify 208, 240, or 480V when ordering DF option.
- See PER Table on page 3.
- Photozell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
- If ROAM mode required, it must be ordered and shipped as a separate line from Acuity Brands Controls. Shorting Cap included.
- Reference Motion Sensor Table on page 3.
- Reference PER Table on page 3 to see functionality.
- Not available with other controls option.
- Also available as a separate accessory; see Accessories information.
- Requires luminaire to be specified with PER option. See PER Table on page 3.
- For use with 2-3/8" mast arm (not included).

## Drilling

### HANDHOLE ORIENTATION



Pole drilling nomenclature: # of heads at degree from handhole (default side A)

DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS
1 @ 90°	2 @ 280°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
Side B	Side B & D	Side B & C	Round pole only	Side B, C, & D	Sides A, B, C, D

Note: Review luminaire spec sheet for specific nomenclature

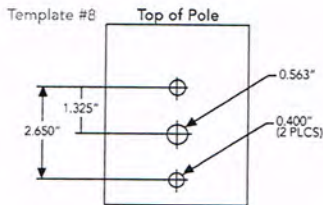
Pole top or tenon O.D.	4.5" @ 90°	4" @ 90°	3.5" @ 90°	3" @ 90°	4.5" @ 120°	4" @ 120°	3.5" @ 120°	3" @ 120°
KAX SPA	N	N	N	N	-	-	-	-
KAX RPA	N	N	N	N	Y	Y	Y	N

\*3 fixtures @ 120 require round pole top/tenon.

### Tenon Mounting Slipfitter

Tenon O.D.	Single Unit	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

\*3@120° is Round Pole only.

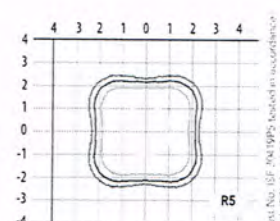
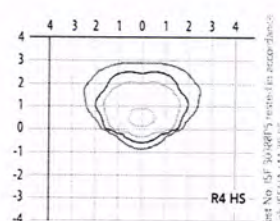
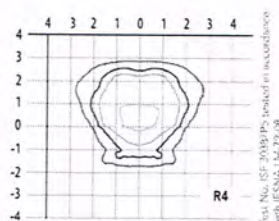
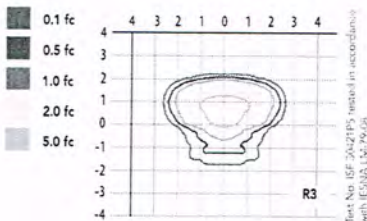


## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit [Lithonia Lighting's KAX2 Area Light homepage](#).

Isofootcandle plots for the KAX2 LED P2 40K. Distances are in units of mounting height (30').

### LEGEND





## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

\* Shaded cells include active dynamic temperature sensing.

Ambient	Lumen Multiplier	
	P1	P2
0°C	1.05	1.05
10°C	1.03	1.03
20°C	1.01	1.01
25°C	1	1
30°C	0.99	0.99
40°C	0.82	0.9
45°C	0.74	0.8
50°C	0.66	0.59

### Electrical Load

Package		120V	208V	240V	277V	347V	480V
P1	Current (A)	1.68A	0.94A	0.82A	0.71A	0.59A	0.43A
	System Watts	200W	195W	194W	194W	196W	195W
P2	Current (A)	2.07A	1.19A	1.04A	0.91A	0.76A	0.58A
	System Watts	248W	244W	243W	243W	246W	247W
P3	Current (A)	3.15A	1.80A	1.57A	1.36A	1.09A	0.81A
	System Watts	383W	373W	371W	369W	370W	367W

### Projected LED Lumen Maintenance

Operating Hours	25,000	50,000	100,000
Lumen Maintenance Factor	>0.94	>0.89	>0.80

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.

### Motion Sensor Default Settings

Option	Dimmed State	High Level (when triggered)	PhotoCell Operation	Dwell Time	Ramp-up Time	Ramp-down Time
*PIR or PIRH	3V (37%) Output	10V (100%) Output	Enabled @ SFC	5 min	3 sec	5 min
PIR1FC3V or PIRH1FC3V	3V (37%) Output	10V (100%) Output	Enabled @ 1FC	5 min	3 sec	5 min

### PER Table

Control	PER (3 wire)	PER5 (5 wire)		PER7 (7 wire)		
		Wire 4/Wires	Wire 5/Wires	Wire 4/Wires	Wire 5/Wires	Wire 6/Wires
Photocontrol Only (On/Off)	✓	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM	⊘	✓	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
ROAM with Motion	⊘	⚠	Wired to dimming leads on driver	⚠	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof*	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture
Futureproof* with Motion	⊘	⚠	Wired to dimming leads on driver	✓	Wired to dimming leads on driver	Wires Capped inside fixture

- ✓ Recommended
- ⊘ Will not work
- ⚠ Alternate

\*Futureproof means: Ability to change controls in the future.

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	30K (3000 K, 70 CRI)				40K (4000 K, 70 CRI)				50K (5000 K, 70 CRI)						
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	200W	R3	24,474	3	0	3	122	26,112	3	0	3	131	26,572	3	0	3	133
		R4	25,377	3	0	3	127	27,076	3	0	3	135	27,552	3	0	3	138
		R5	26,882	4	0	2	134	28,681	4	0	2	143	29,186	4	0	2	146
P2	248W	R3	30,753	3	0	3	124	32,812	3	0	3	132	33,389	3	0	3	135
		R4	31,888	3	0	3	129	34,022	3	0	4	137	34,621	3	0	4	140
		R5	33,779	5	0	2	136	36,040	5	0	3	145	36,674	5	0	3	148
P3	381W	R3	45,049	4	0	4	118	48,065	4	0	4	126	48,911	4	0	4	128
		R4	46,712	4	0	4	123	49,838	4	0	4	131	50,715	4	0	4	133
		R5	49,481	5	0	3	130	52,793	5	0	4	139	53,723	5	0	4	141







Catalog Number  
KAX2 LED P1 50K R4 MVOLT SPA DWHXD

Type

A1

Notes

## FEATURES & SPECIFICATIONS

### INTENDED USE

This feature-rich luminaire embodies the highest level of functionality with extraordinary efficacy which maximizes your application efficiency providing high levels of light for minimal cost specifically on small to medium sized parking lots like banks, restaurants, service stations, strip malls and automotive dealerships. Suitable replacement for luminaires up to 1000W metal halide.

### CONSTRUCTION

Separated die-cast aluminum heat sink and mounting arm allow maximum air flow and separated electrical compartments to promote cool operating environments extending component life. This modular design allows for ease of maintenance and future light engine upgrades. The KAX features a field rotatable optical assembly enabling on-the-fly adjustments when plans change, and can even be tilted upwards if necessary for additional forward throw. The housing is completely sealed against moisture and environmental contaminants (IP66). Low EPA (1.1 ft2) for optimized pole wind loading.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Available in both textured and non-textured finishes.

### OPTICS

Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. Light engines are available in 3000 K, 4000 K or 5000 K (minimum 70 CRI) configurations. In its standard configuration the KAX has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight. With the TILT option, the optical assembly can be tilted up to 80 degrees for additional forward throw or to provide vertical illumination.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (>L80/100,000 hours). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2)

### INSTALLATION

The base of the mounting arm features a universal mounting template to facilitate quick and easy installation. Mounting bolts featuring a 1000-hour salt fog finish are utilized to secure the luminaire providing up to a 1.5 G vibration load rating per ANSI C136.31. The KAX utilizes the AERIS™ series pole drilling pattern. Optional bi-level motion sensor and NEMA 3, 5 or 7 pin twist lock photocontrol receptacle are also available.

### LISTINGS

CSA Listed for wet locations. Light engines and electrical compartment are IP66 rated. Rated for minimum ambient temperatures as low as -40°C.

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org](http://www.designlights.org) to confirm which versions are qualified.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.lithonia.com/warranty](http://www.lithonia.com/warranty)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.



## Area Lighting Poles

### Design

The selection of the correct pole design is predicated on the specific loading requirements of each application. The poles located in the steel pole chart are designed to withstand dead loads and theoretical dynamic loads developed by sustained winds of 80 MPH through 100 MPH times the 1.3 gust factor. The combined EPA and the weight of the luminaire, light support brackets, and any other attachments cannot exceed the rated EPA or allowable weight on that pole.

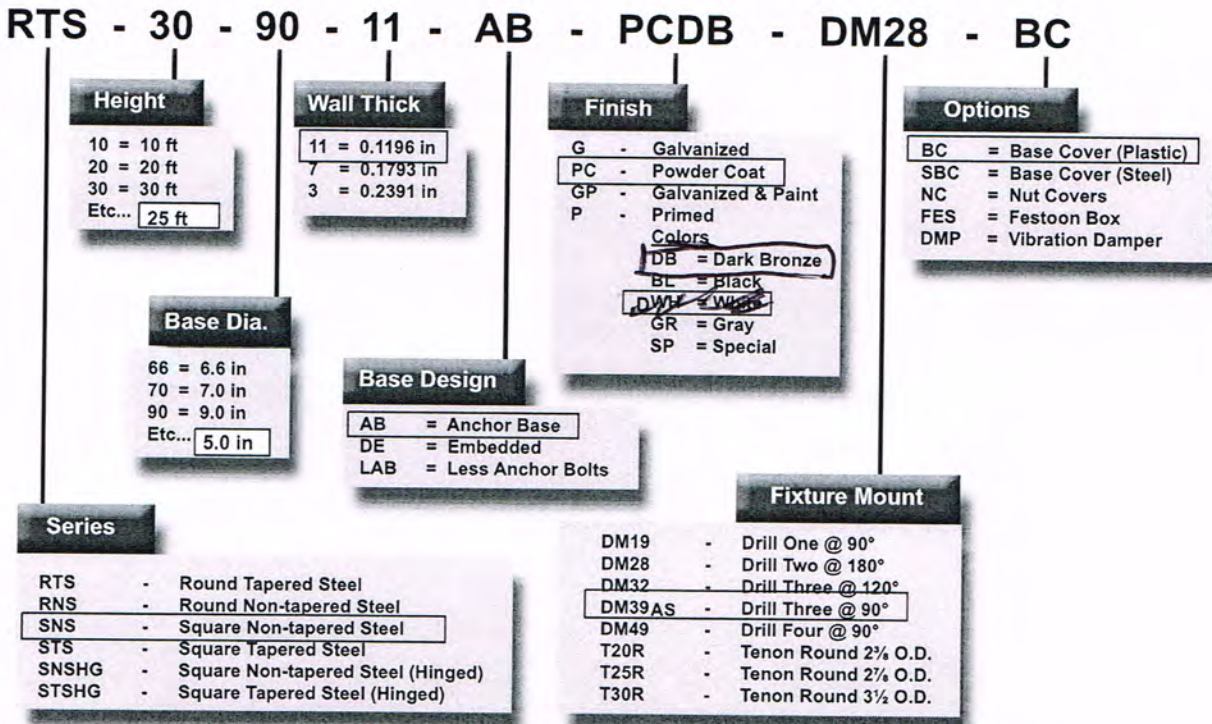
### Welding

All welds shall be of the highest quality and performed by American Welding Society certified welders conforming to the latest version of the American Welding Society specification AWS D1.1.

### Finish

All poles and mounting brackets are furnished with a coating of either red oxide/zinc primer, factory painted, powder coated or hot-dip galvanized in accordance with ASTM A-123. Miscellaneous hardware will be galvanized to ASTM A-153. Exterior finish top-coatings are available by request.

## Ordering Logic



*Custom designs and aluminum poles are also available.  
Please contact factory for details.*





Catalog Number	Pole Height (ft)	Weight (lbs)	Gauge	Shaft Size (in)	Base Plate Width (in)	Bolt Circle Dia. (in)	Anchor Bolts (in)		Max Loading Capacities					
									80 (mph)		90 (mph)		100 (mph)	
							Dia x Len x Hook	Projection min / max	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)	EPA (ft <sup>2</sup> )	Wt. (lbs)
SNS-10-40-11-AB	10	75	11	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	30.6	765	23.8	595	18.9	472
SNS-15-40-11-AB	15	115	11	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	17.2	430	13.2	330	10.0	250
SNS-20-40-11-AB	20	140	11	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	9.6	240	6.7	167	4.5	112
SNS-20-40-7-AB	20	185	7	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	15.0	375	11.0	275	9.0	225
SNS-20-50-11-AB	20	185	11	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	17.7	442	12.7	317	9.4	235
SNS-25-40-11-AB	25	170	11	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	4.8	120	2.6	65	1.0	25
SNS-25-40-7-AB	25	245	7	4.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	10.8	270	7.7	192	5.4	135
SNS-25-50-11-AB	25	225	11	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	9.8	245	6.3	157	3.7	92
SNS-25-50-7-AB	25	360	7	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	18.5	462	13.3	3332	9.5	237
SNS-30-40-7-AB	30	291	7	5.0	8.25	8.0 - 9.0	0.75 x 17 x 3	4.00 / 5.00	6.7	167	4.4	110	2.6	65
SNS-30-50-11-AB	30	265	11	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	4.7	117	2.0	50	--	--
SNS-30-50-7-AB	30	380	7	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	10.7	267	6.7	167	3.9	97
SNS-30-60-7-AB	30	520	7	6.0	12.5	11 - 13	1 x 36 x 4	4.75 / 5.75	19.0	475	13.2	330	9.0	225
SNS-35-50-7-AB	35	440	7	5.0	11	10 - 12	0.75 x 17 x 3	4.00 / 5.00	5.9	147	2.5	62	--	--
SNS-35-60-7-AB	35	540	7	6.0	12.5	11 - 13	1 x 36 x 4	4.75 / 5.75	12.4	310	7.6	190	4.2	105
SNS-39-60-7-AB	39	605	7	6.0	12.5	11 - 13	1 x 36 x 4	4.75 / 5.75	7.2	180	3.0	75	--	--

**Pole Shaft**

The pole shall be a one section design fabricated from standard 11 gauge (0.1196") or 7 gauge (0.1793") steel. Each section shall be fabricated from high strength low alloy steel conforming to ASTM A500 Grade B, with minimum yield strength of 46,000 psi. Each pole will have a full-length longitudinal weld and will be square in cross-section.

**Base Plate**

The base plate is fabricated from a structural quality hot rolled carbon steel plate that meets or exceeds ASTM A-36 with a minimum yield of strength of 36,000 psi. The base plate telescopes the pole shaft and is circumferential welded top and bottom. The base plate has slotted bolt holes.

**Hand Hole**

A reinforced hand hole, having a nominal 3" x 5" opening, will be installed 18" above the base plate on all poles. A hand hole cover and attaching hardware is included with each hand hole assembly. A ground lug will be welded either on the hand hole frame or on the inside of the pole opposite the hand hole depending on the design.

**Anchor Bolts**

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds minimum yield strength of 55,000 psi. Anchor bolts are sized according to each pole design and are furnished with 2 galvanized heavy hex nuts and 2 galvanized flat washers. Anchor bolts shall be galvanized a minimum of 4" on the threaded end in accordance with ASTM A-153. Anchor bolts will ship with the poles unless otherwise specified.

**Pole Top**

Each pole will be side-drilled with a removable pole cap or have a 2-3/8" O.D. x 4" tenon top (other sizes available).

**Welding**

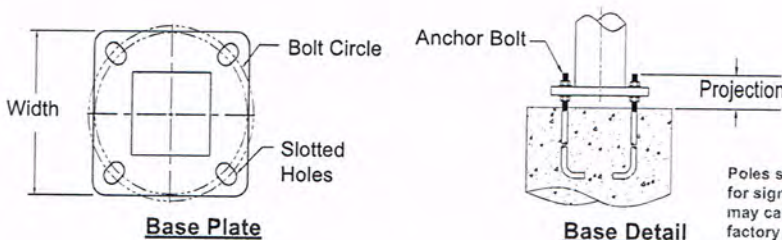
All welds shall be of the highest quality and performed by American Welding Society certified welders conforming to the latest version of the American Welding Society specification AWS D1.1.

**Finish**

All poles, mounting brackets and platforms are furnished with a coating of either red oxide/zinc primer, factory painted, powder coated or hot-dip galvanized to ASTM A-123. Miscellaneous hardware will be galvanized to ASTM A-153. Exterior finish coatings are available by request.

**Note**

Anchor bolt patterns are subject to change. Please consult factory prior to construction.



Poles should be monitored frequently for signs of harmonic vibration, which may cause structural fatigue. Consult factory for a damping device that can help minimize the effects of vibration.



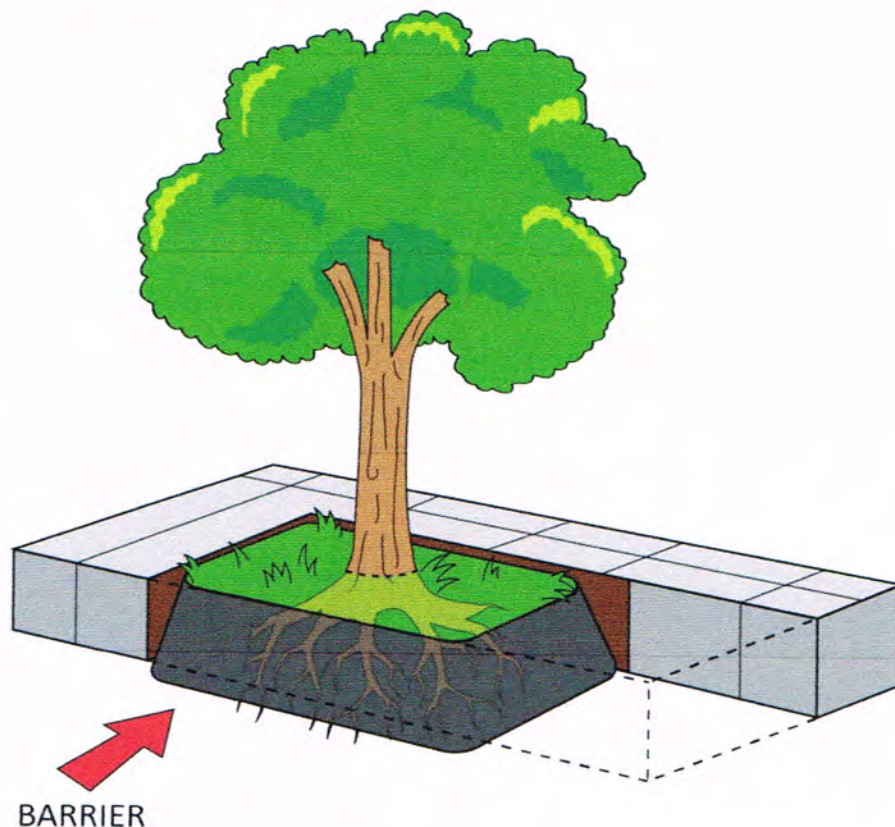
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## Installation Guide

Sidewalk Shield is best used on new or young plantings. The shield can be utilized on young plantings if it can be installed without disrupting existing root growth. It is possible to use Sidewalk Shield on older plantings if it can be installed without cutting major roots.

### Establishing a tree pit for new plantings.

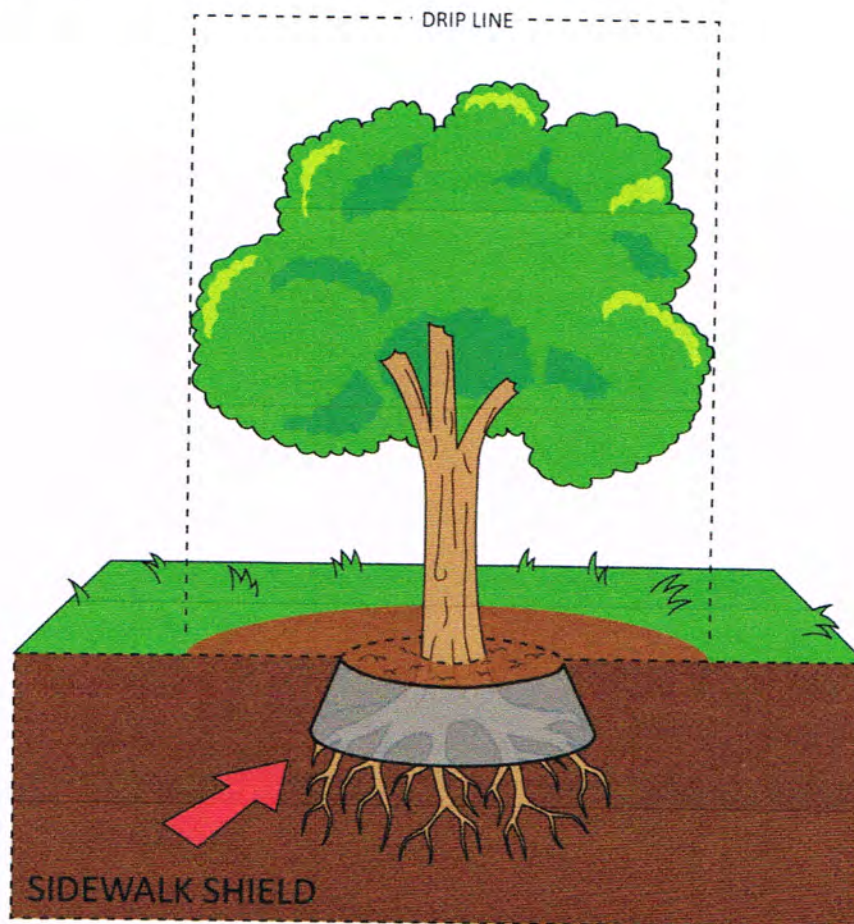
Tree pits can be installed directly around the tree or comprise a larger green area. Surround pits are installed directly around the tree and enclose a single tree. Linear or continuous pits are longer pits design to contain multiple trees and a larger green space. Tree pits should be as large as possible to allow for ample growing space for tree roots and continuous tree pits are advantageous whenever possible.



Excavate entire area for a surround pit or perimeter for a continuous pit. Confirm subgrade is at the proper depth to allow the barrier to come to the top of the curb but to exceed curb or sidewalk height. Line the outside of the desired planting area for the tree with Sidewalk Shield. Angle the shield at a 10-degree position where the top of the barrier is closer to the tree and the bottom is further away. Replace soil in succeeding 6" layers compacting as you proceed.

## Two most important aspects when installing Sidewalk Shield

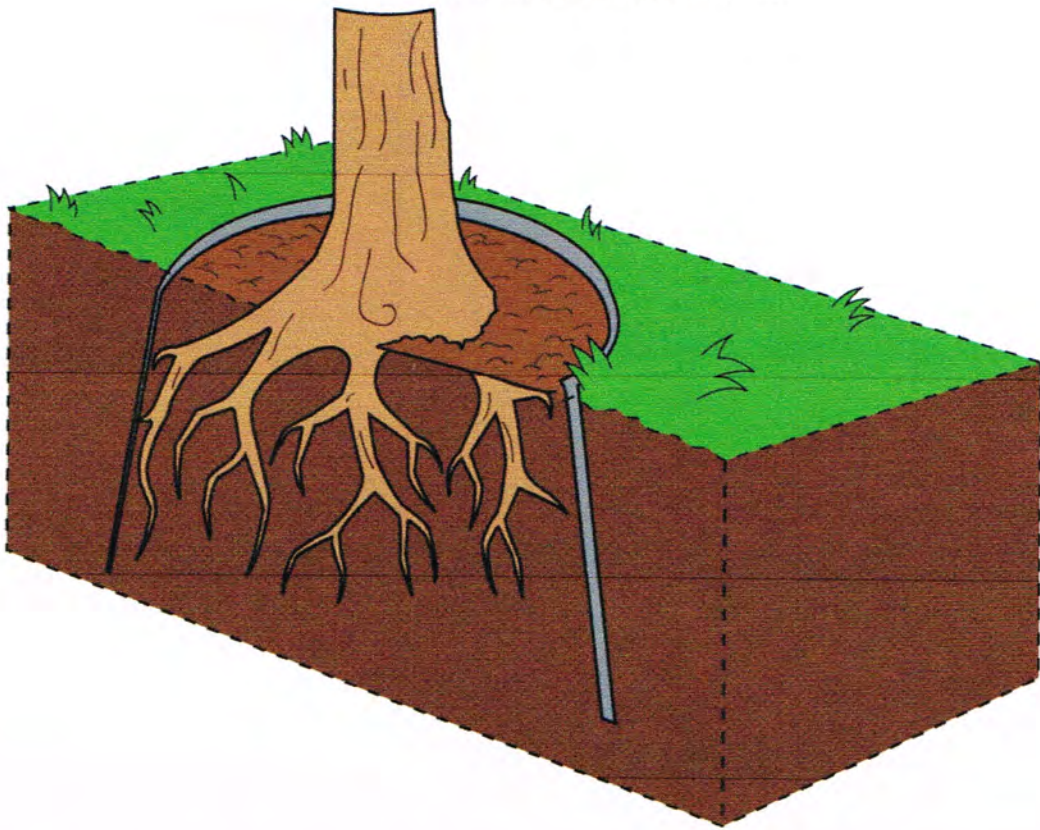
### 1. Allowing proper spacing for tree health.



The drip line of a tree is the outermost area that water is capable of dripping off of the limbs. The Sidewalk Shield should be installed no less than half the distance of the mature drip line. For example, if the drip line of the tree is 10' across, the Sidewalk Shield enclosure should be at least 5' diameter. Not all planting areas are circular, but Sidewalk Shield can accommodate by making a comparable growing area in rectangular or odd shaped areas. The ultimate objective is controlling tree roots but allowing enough space for tree health.

### 2. Proper installation angle



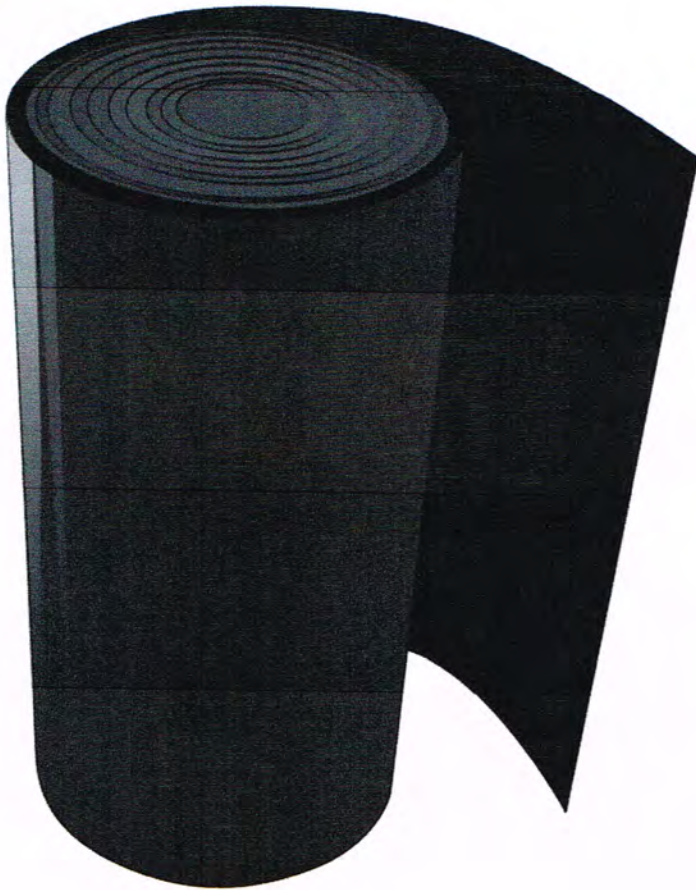


The purpose of Sidewalk Shield is to direct the root growth downward instead of out along the surface where they can do harm to sidewalks, driveways, septic systems, etc. The material is positioned in a 10-degree downward slope. The top (portion closer to the soil surface) should be closer to the tree than the bottom. This creates a funnel to direct roots in a downward growth pattern.



Know what's below.  
**Call before you dig.**

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# Our Sizes

## STANDARD DUTY

80 MIL THICK

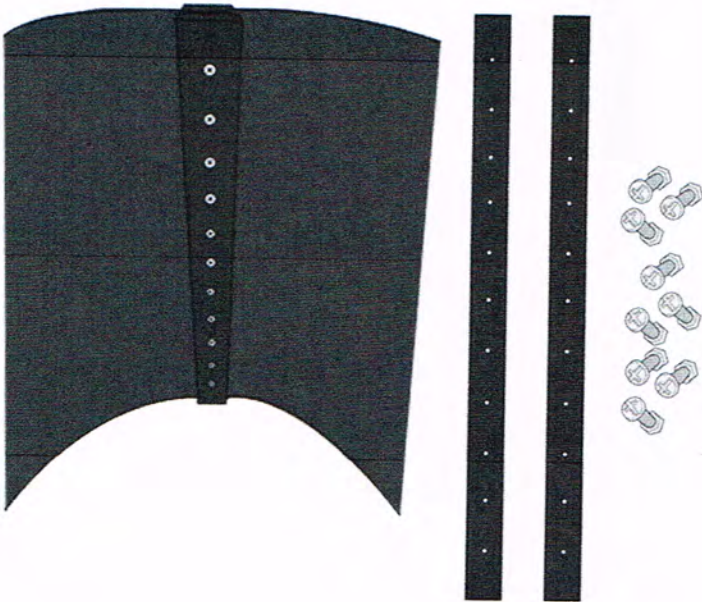
18" Depth

30" Depth

## HEAVY DUTY

100 MIL THICK

36" Depth



### Connecting Kit

Protect your installation by using a full enclosure. The connecting kit joins the shield together creating a long lasting seal.

- Our kit will not rust
- Made from High Density Polyethylene (HDPE)
- All plastic hardware to further extend its lifetime