



**RYAN ASSOCIATES**

Building 4  
144 Moody Street  
Waltham, MA 02453  
PH: 781.314.0401  
FX: 781.314.0151

**THE VILLAGE AT  
NORFOLK**

Norfolk, Massachusetts

**FULL SITE RENDERED PLAN**

SCALE: 1" = 40'-0"

ISSUED	1	05-10-17	ZBA SUBMITTAL
	2	05-24-17	ZBA SUBMITTAL REVISIONS
	3		
	4		
	5		
	6		

**L-1.0**





Norway Spruce



Japanese Maple



River Birch



Kousa Dogwood



Kwanzan Cherry



Red Maple



Tulip Tree



London Plane Tree



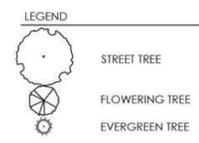
American Elm



Swamp White Oak

**THE VILLAGE AT NORFOLK**  
OVERALL SITE TYPICAL PLANT LIST  
5/24/2017

Symbol	Botanical name	Common Name	Min. Size
<b>Evergreen Trees</b>			
AB	<i>Abies balsamea</i>	Balsam fir	5-6'
IO	<i>Ilex opaca</i>	American Holly	5-6'
PB	<i>Picea abies</i>	Norway Spruce	5-6'
PT	<i>Pinus strobus</i>	White Pine	5-6'
<b>Flowering Trees/Open Space Trees</b>			
AP	<i>Acer palmatum 'Bloodgood'</i>	Bloodgood Japanese Maple	5-6' HT
AS	<i>Acer saccharum</i>	Sugar Maple	2-2.5" CAL
AC	<i>Amelanchier canadensis</i>	Shadblow Serviceberry	5-6' HT
BN	<i>Betula nigra</i>	River Birch	6-8' HT
CK	<i>Cornus kousa</i>	Kousa Dogwood	5-6' HT
HI	<i>Hamamelis x intermedia</i>	Arnold Promise Witch Hazel	3-4' HT
MV	<i>Magnolia virginiana</i>	Sweetbay Magnolia	5-6' HT
MS	<i>Malus 'Snowdrift'</i>	Snowdrift Flowering Crabapple	5-6' HT
PS	<i>Prunus serulata</i>	Kwanzan Flowering Cherry	1.5-2" CAL
<b>Street Trees</b>			
AR	<i>Acer rubrum</i>	Red Maple	3" CAL
LT	<i>Liriodendron tulipifera</i>	Tulip tree	3" CAL
PA	<i>Platanus acerifolia</i>	London Plane Tree	3" CAL
QB	<i>Quercus bicolor</i>	Swamp White Oak	3" CAL
UA	<i>Ulmus americana 'Valley Forge'</i>	American Elm	3" CAL



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Norfolk, Massachusetts

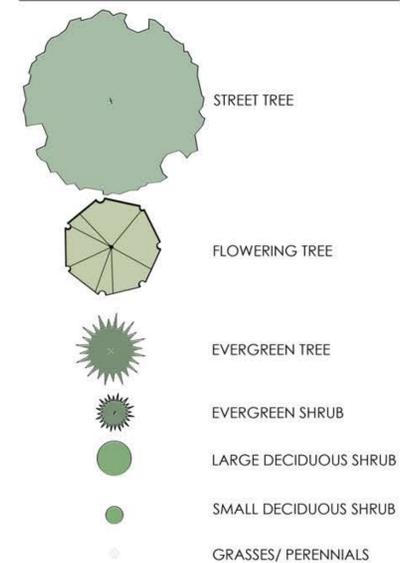
**FULL SITE PLANTING PLAN**  
SCALE: 1" = 40'-0"

ISSUED	1	05-10-17	ZBA SUBMITTAL	2	05-24-17	ZBA SUBMITTAL REVISIONS

**L-1.01**



LEGEND



**THE VILLAGE AT NORFOLK**  
TYPICAL UNIT PLANT LIST  
5/10/2017

Botanical name	Common Name	Min. Size
<b>Flowering Trees</b>		
<i>Acer palmatum</i> 'Bloodgood'	Bloodgood Japanese Maple	5-6' HT
<i>Amelanchier canadensis</i>	Shadblow Serviceberry	5-6' HT
<i>Cornus kousa</i>	Kousa Dogwood	5-6' HT
<i>Hamamelis x intermedia</i>	Arnold Promise Witch Hazel	3-4' HT
<i>Magnolia virginiana</i>	Sweetbay Magnolia	5-6' HT
<i>Prunus serrulata</i>	Kwanzan Flowering Cherry	1.5-2" CAL.
<b>Evergreen Shrubs</b>		
<i>Ilex crenata</i> 'Compacta'	Compact Japanese Holly	18-24"
<i>Ilex galbra</i> 'Compacta'	Compact Inkberry	18-24"
<i>Ilex x meserveae</i> 'Blue Prince'	Blue Prince Holly	18-24"
<i>Ilex x meserveae</i> 'Blue Princess'	Blue Princess Holly	18-24"
<i>Pinus mugo</i> var. <i>pumilio</i>	Pumilio Mugo Pine	10-12"
<i>Rhododendron</i> 'Catawbiense'	Catawbiense Rhododendron	18-24"
<i>Rhododendron</i> 'Chionoides'	Chionoides Rhododendron	18-24"
<b>Deciduous Shrubs</b>		
<i>Clethra alnifolia</i>	Summersweet	18-24"
<i>Cornus alba</i> 'Bailhalo'	Ivory Halo Tatrian Dogwood	18-24"
<i>Fothergilla gardenii</i>	Dwarf Fothergilla	18-24"
<i>Hydrangea arborescens</i> 'Annabelle'	Annabelle Hydrangea	18-24"
<i>Itea virginica</i> 'Henry's Garnet'	Henry's Garnet' Virginia Sweetspire	18-24"
<i>Rhus aromatica</i>	Sumac	15-18"
<i>Spiraea nipponica</i> 'Snowmound'	Snowmound Spiraea	18-24"
<i>Viburnum dentatum</i>	Arrowwood Viburnum	18-24"
<b>Perennials/ Groundcover</b>		
<i>Astilbe</i>	Astilbe	1 gal
<i>Hemerocallis</i>	Daylily	1 gal
<i>Heuchera</i>	Coral Bells	1 gal
<i>Nepeta fassenii</i>	Catmint	1 gal
<i>Salvia</i>	Meadow Sage	1 gal
<i>Vinca minor</i>	Periwinkle	12" o.c. flats
<b>Grasses</b>		
<i>Calamagrostis x acutiflora</i> 'Karl Foerster'	Foerster's Feather Reed Grass	1 gal
<i>Hakonechloa macroa</i> 'All Gold'	All Gold Japanese Forest Grass	1 gal
<i>Pennisetum alopecuroides</i> 'Hameln'	Hameln Fountain Grass	1 gal

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**RYAN**

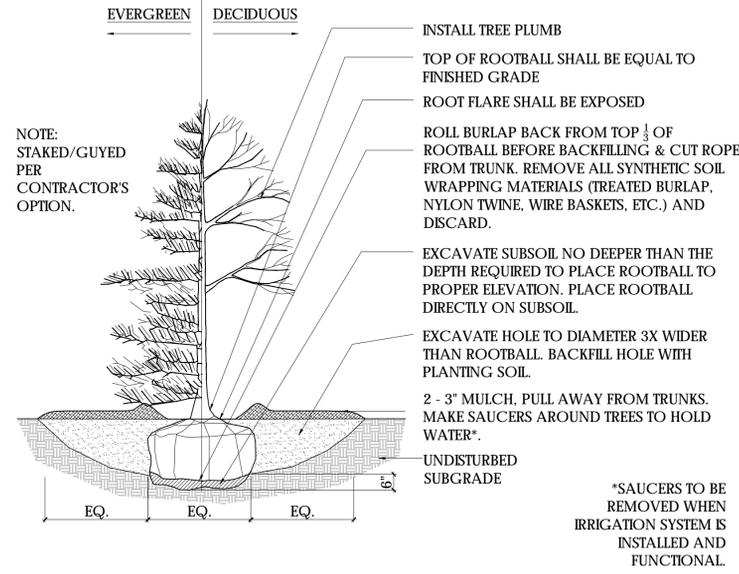
**THE VILLAGE AT NORFOLK**  
Norfolk, Massachusetts

**TYPICAL UNIT PLANTING**  
SCALE: 1" = 10'-0"

ISSUED	05-10-17	05-24-17	05-24-17	05-24-17	05-24-17	05-24-17
1	ZBA SUBMITTAL					
2						
3						
4						
5						
6						

**L-1.1**

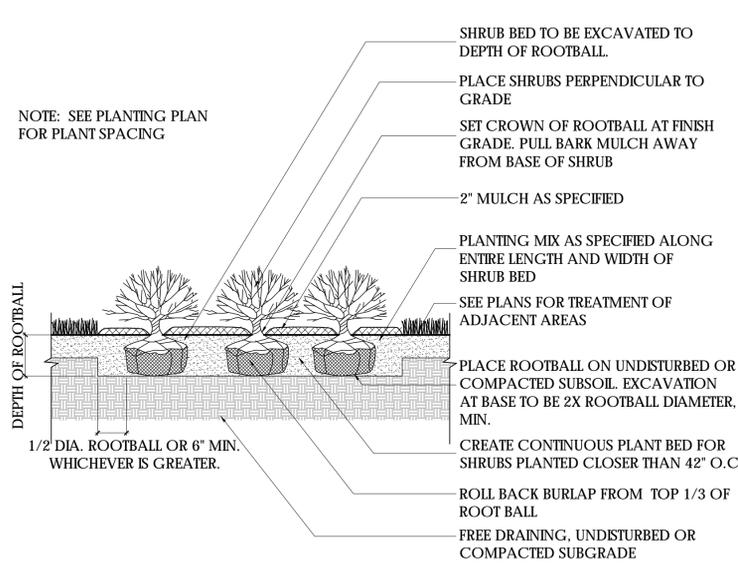




1 TREES

SCALE: 3/8" = 1'-0"

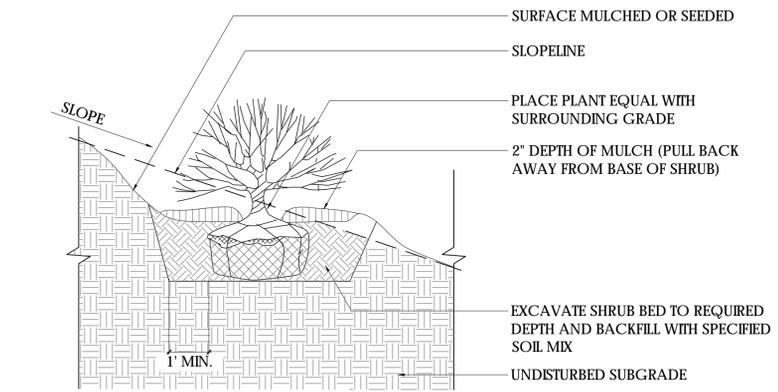
SECTION



2 SHRUBS

SCALE: 3/8" = 1'-0"

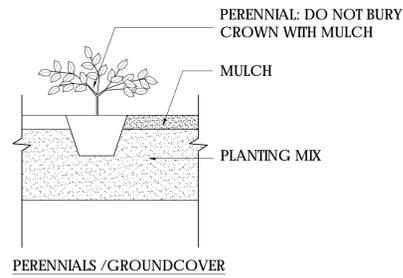
SECTION



3 SHRUB ON SLOPE

SCALE: 3/4" = 1'-0"

SECTION



4 PERENNIALS / GROUND COVER

SCALE: 1" = 1'-0"

SECTION

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14 Wood Street  
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THE VILLAGE AT  
NORFOLK

Norfolk, Massachusetts

PLANTING DETAILS

SCALE: AS NOTED

ISSUED	1	2	3	4	5	6
ZBA SUBMITTAL	05-23-17	05-24-17				
ZBA SUBMITTAL, REVISIONS						

L-1.2

NORTH

# LEGEND

-  BOARD FENCE
-  STONE WALL
-  CHAIN LINK



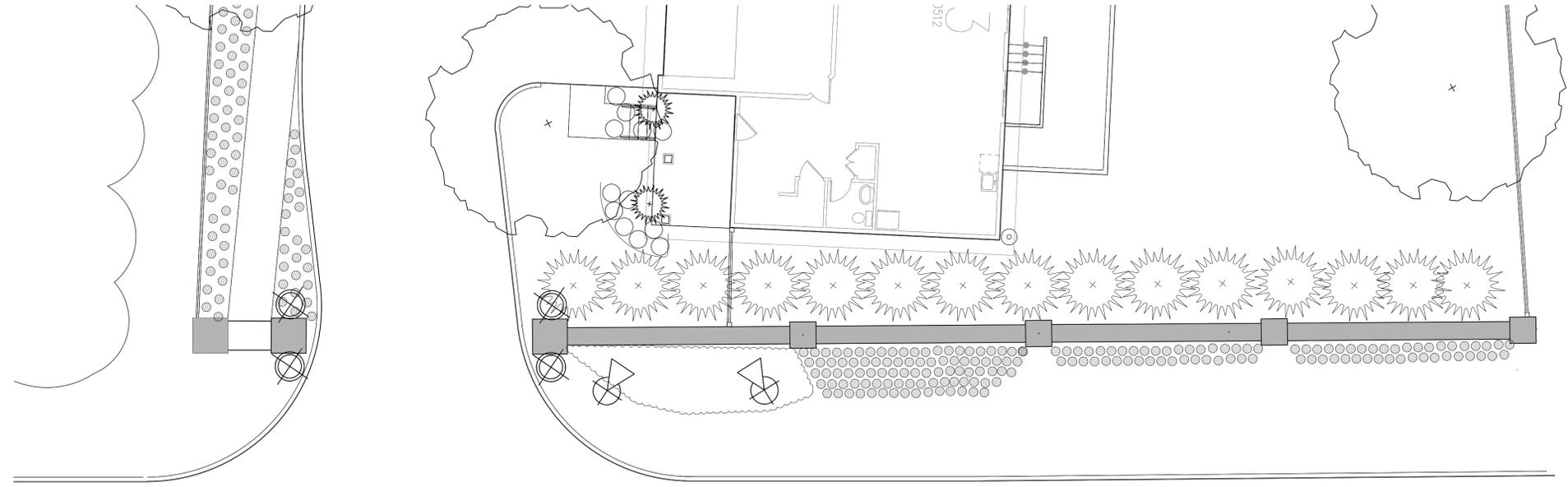
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**THE VILLAGE AT NORFOLK**  
 Norfolk, Massachusetts

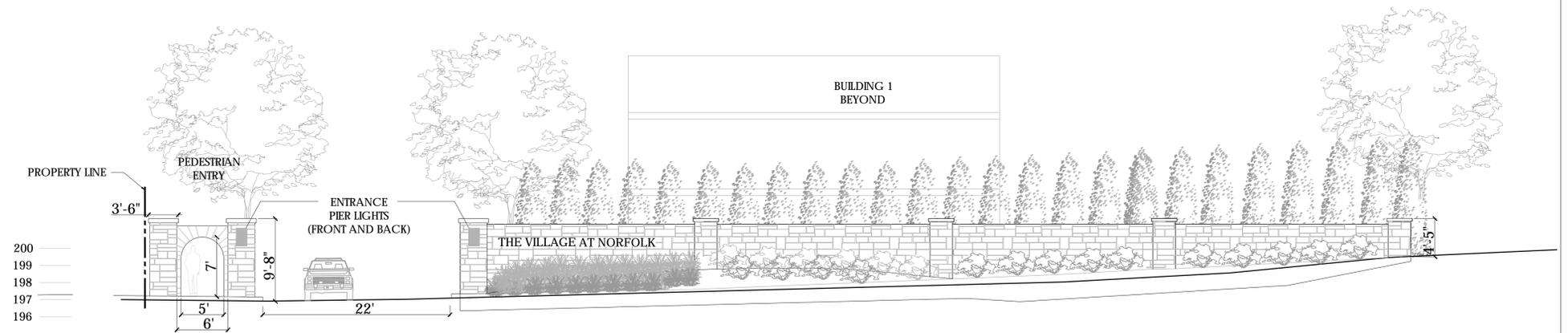
**FENCING PLAN**  
 SCALE: 1" = 40'-0"

ISSUED	DATE	DESCRIPTION
1	05-10-17	ZBA SUBMITTAL
2	05-23-17	ZBA SUBMITTAL, REVISIONS
3		
4		
5		
6		

**L-2.0**



2 ENTRY PLAN



1 ENTRY ELEVATION

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**RYAN**

**THE VILLAGE AT NORFOLK**  
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**ENTRY ELEVATION**  
SCALE: 1" = 10'-0"

ISSUED	ZBA SUBMITTAL	ZBA SUBMITTAL REVISIONS
1	05-10-17	ZBA SUBMITTAL
2	05-24-17	ZBA SUBMITTAL REVISIONS
3		
4		
5		
6		

**L-2.1**

NORTH

LEGEND

-  ROAD LIGHTS
-  PEDESTRIAN LIGHTS
-  STEP LIGHTS
-  ENTRANCE PIER LIGHTS
-  GARAGE MOUNTED LIGHT
-  SIGNAGE LIGHT
-  DOWNLIGHT



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 Norfolk, Massachusetts

**SITE LIGHTING**  
 SCALE: 1" = 40'-0"

ISSUED	DATE	DESCRIPTION
1	05-10-17	ZBA SUBMITTAL
2	05-24-17	ZBA SUBMITTAL, REVISIONS
3		
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**L-3.0**

SOLID STATE AREA LIGHTING  
DSAP SERIES-LED  
SPECIFICATIONS

**HOUSING**  
Upper housing is heavy gauge cast aluminum (DSAP25) or 0.125" thick spun aluminum with reveal (DSAP1). Lower housing is 0.080" thick spun aluminum with integrated LED module seat. Lower housing is vented at top and bottom for convective cooling of LED module. Top Driver chamber is sealed from LED Module chamber. Trolview ball coupling mount is welded to housing and facilitates quick leveling and installation.

**LED OPTICS**  
Low copper A356 alloy (<2% copper) cast aluminum housing. Integrated clear tempered 3/16" glass lens sealed with a continuous silicone gasket protects emitters (LED's) and emitter Reflector-Prism optics, and seals the module from water intrusion and environmental contaminants. Module is sealed to meet an IP67 rating. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Each emitter is optically controlled by a Reflector-Prism injection molded from H12 acrylic (3 types per module: one from 0° - 50°; one from 50° - 65°; one from 65° - 72°). Each Reflector-Prism has indexing pins for aiming and is secured to an optical plate made of matte black anodized aluminum. The optical plate locates every Reflector-Prism over an emitter. Reflector-Prisms are secured to the optical plate with a UV curing adhesive. The Reflector-Prisms are arrayed to produce ES Type II, III, IV, and V-SQ distributions. The entire Optical Module is field rotatable in 90° increments. Both module and drivers are factory wired using water resistant, insulated cord. Lens, module and drivers are field replaceable.

**LED DRIVER**  
Drivers are UL and cUL recognized mounted on a single plate and factory prewired with quick-disconnect plugs. Constant current driver is electronic and has a power factor of >0.90 and a minimum operating temperature of -40°F. Drivers accept an input of 120-277V, 50/60Hz (0 - 10V dimmable driver is standard. Driver has a minimum of 3KV internal surge protection).

**FINISH**  
Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step iron phosphate pretreatment for protection and point adhesion. 400°F bake for maximum hardness and durability. Texture finish is standard.



DSAP25

UL Listed by ETL  
USA  
2015084  
U.S. ARCHITECTURAL LIGHTING

U.S. Architectural Lighting  
40429 Brickyard Drive • Madras, CA 95638 • USA  
509-438-5900 • FAX 509-438-5900  
www.bklighting.com • info@bklighting.com

STREET LIGHT, 16 FT. POLE  
not to scale

SOLID STATE AREA LIGHTING  
CLP SERIES-LED  
SPECIFICATIONS

**LUMINAIRE**  
Clear smooth acrylic lens provided with durable corrosion resistant cast aluminum housing. Top is removable for access. Post-top luminaire base has 3" I.D. opening for farnon. Pendant Mount uses Trolview™ ball coupling mount. All hardware is stainless steel.

**LED POWER ARRAY™**  
Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic lens and end cap protects the LED Tube's internal components.

**ANGLED POWER ARRAY™**: Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and combined to produce highly efficient IES Distribution Types III, III, IV and V. Used in conjunction with a clear sandblasted diffusing lens.

**VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR**: LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with opal diffusing lens.

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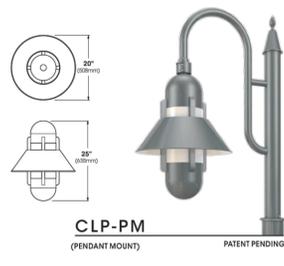
**LED EMITTERS**  
High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

**LED DRIVER**  
UL and cUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60Hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

**FINISH**  
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.



CLP



CLP-PM

UL Listed by ETL  
USA  
2013142  
SUN VALLEY LIGHTING

Sun Valley Lighting  
480 Red Avenue • Redwood, CA 95570  
Phone 925-228-9999 Fax 925-228-9999  
www.sunvalley.com

PEDESTRIAN LIGHT, 10 FT. POLE  
not to scale

SOLID STATE AREA LIGHTING  
LOUVERED SQUARE STEP STAR™  
SPECIFICATIONS

**LUMINAIRE**  
Clear smooth acrylic lens provided with durable corrosion resistant cast aluminum housing. Top is removable for access. Post-top luminaire base has 3" I.D. opening for farnon. Pendant Mount uses Trolview™ ball coupling mount. All hardware is stainless steel.

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UL Listed by ETL  
USA  
2013142  
SUN VALLEY LIGHTING

STEP LIGHT  
not to scale

SOLID STATE AREA LIGHTING  
EL CAPITAN™  
SPECIFICATIONS

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UL Listed by ETL  
USA  
2013142  
SUN VALLEY LIGHTING

PERGOLA DOWNLIGHT  
not to scale

SOLID STATE AREA LIGHTING  
DELTA STAR™  
SPECIFICATIONS

**LUMINAIRE**  
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UL Listed by ETL  
USA  
2013142  
U.S. ARCHITECTURAL LIGHTING

SIGNAGE LIGHT  
not to scale

SOLID STATE AREA LIGHTING  
E350 / E360 EURO  
FIXTURES/FITTERS/ARMS PM-WB

**LUMINAIRE**  
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UL Listed by ETL  
USA  
2013142  
U.S. ARCHITECTURAL LIGHTING

ENTRY LIGHT - MOUNTED ON STONE COLUMNS  
not to scale

SOLID STATE AREA LIGHTING  
B-K LIGHTING  
SPECIFICATIONS

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UL Listed by ETL  
USA  
2013142  
U.S. ARCHITECTURAL LIGHTING

STEP LIGHT  
not to scale

SOLID STATE AREA LIGHTING  
B-K LIGHTING  
SPECIFICATIONS

**LUMINAIRE**  
Clear smooth acrylic lens provided with durable corrosion resistant cast aluminum housing. Top is removable for access. Post-top luminaire base has 3" I.D. opening for farnon. Pendant Mount uses Trolview™ ball coupling mount. All hardware is stainless steel.

**LED POWER ARRAY™**  
Three-dimensional array of individual LED Tubes fastened to a retaining plate. Each LED Tube consists of circuit board populated with a multiple of LED's and is mechanically fastened to a radial aluminum heat sink. An acrylic lens and end cap protects the LED Tube's internal components.

**ANGLED POWER ARRAY™**: Micro-Reflectors mounted around each LED control the raw light output. LED Tubes are uniquely aimed horizontally and vertically and combined to produce highly efficient IES Distribution Types III, III, IV and V. Used in conjunction with a clear sandblasted diffusing lens.

**VERTICAL POWER ARRAY™ WITH GLASS REFRACTOR**: LED Tubes are aligned vertically and arranged radially to produce an even raw light distribution that simulates standard light sources. Produces a minimal glare, symmetric diffuse light distribution. Used in conjunction with opal diffusing lens.

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**LED EMITTERS**  
High Output LED's are driven at 350mA for nominal 1 Watt output each. LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult Factory for other LED options.

**LED DRIVER**  
UL and cUL recognized High Power Factor, Constant Current LED drivers operate on input voltages from 120-277VAC, 50/60Hz. Consult Factory for 347-480VAC. Driver is mechanically fastened to a retaining bracket. Main power quick disconnect provided. Driver has a minimum 4KV of internal surge protection, 10KV & 20KV Surge Protector optional. Dimming and High-Low Driver options available.

**FINISH**  
Polyester powder coat incorporates four step iron phosphate process to pretreat metal surface for maximum adhesion. Top coat is baked at 400°F for maximum hardness and exterior durability.

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UL Listed by ETL  
USA  
2013142  
U.S. ARCHITECTURAL LIGHTING

PERGOLA DOWNLIGHT  
not to scale

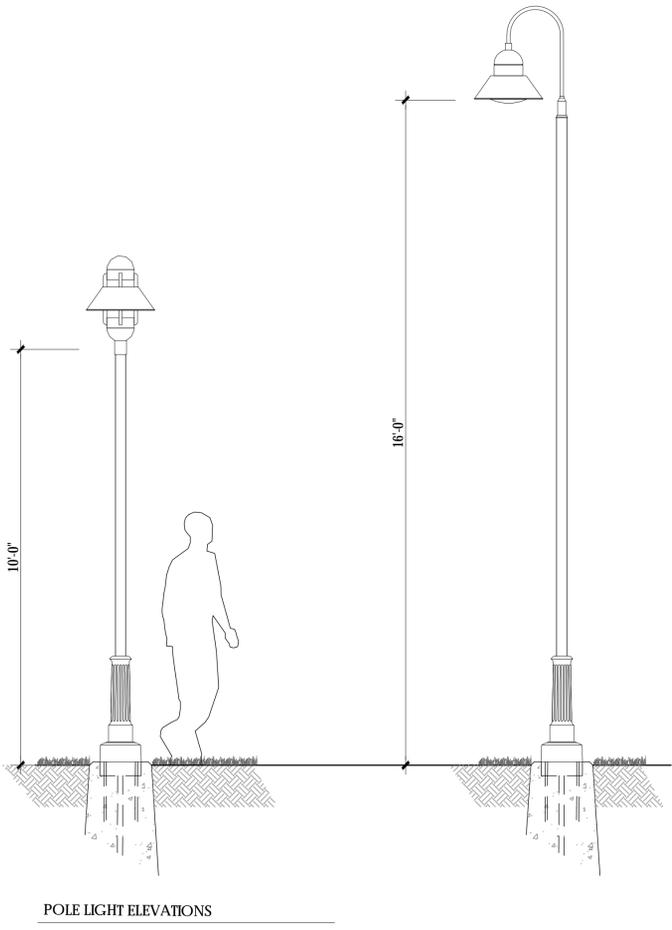
RYAN ASSOCIATES  
Building 4  
144 Moody Street  
Walham, MA 02453  
ph: 781.314.0401  
fx: 781.314.0151

THE VILLAGE AT  
NORFOLK  
Norfolk, Massachusetts

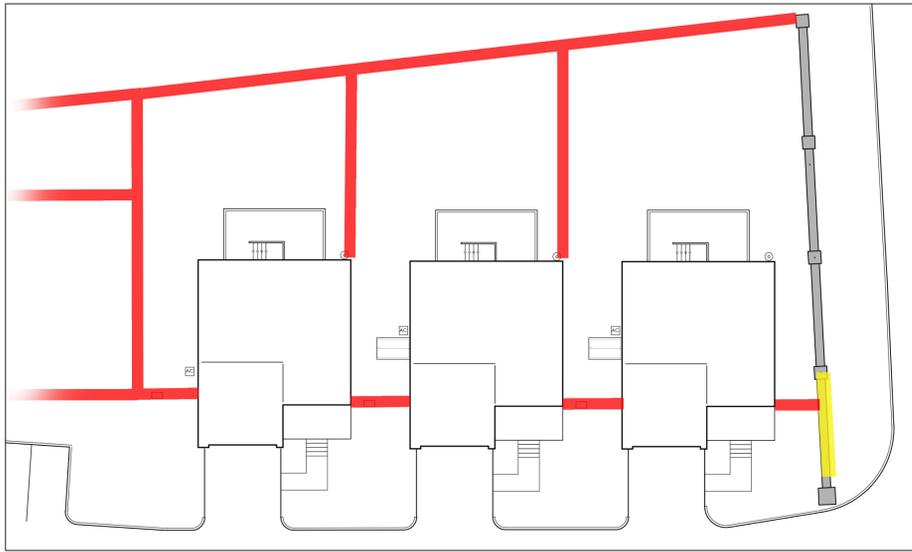
SITE LIGHTING DETAILS  
SCALE: 1" = 40'-0"

ISSUED	1	05-10-17	ZBA SUBMITTAL	2	05-24-17	ZBA SUBMITTAL - REVISIONS
	3					
	4					
	5					
	6					

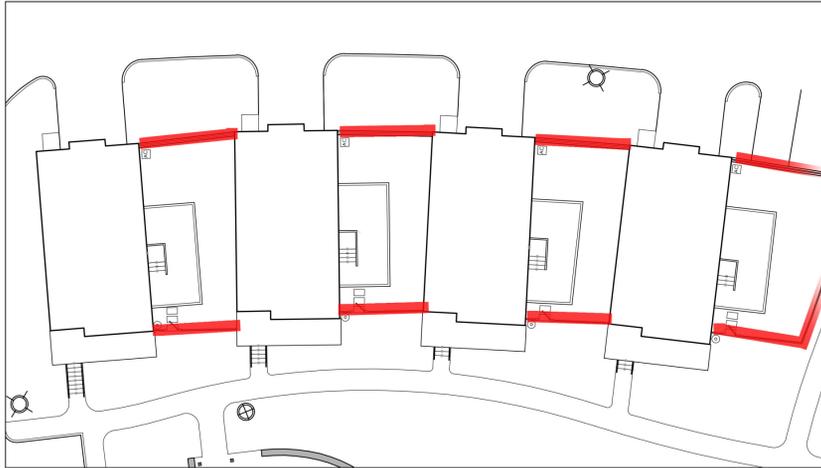
L-3.1



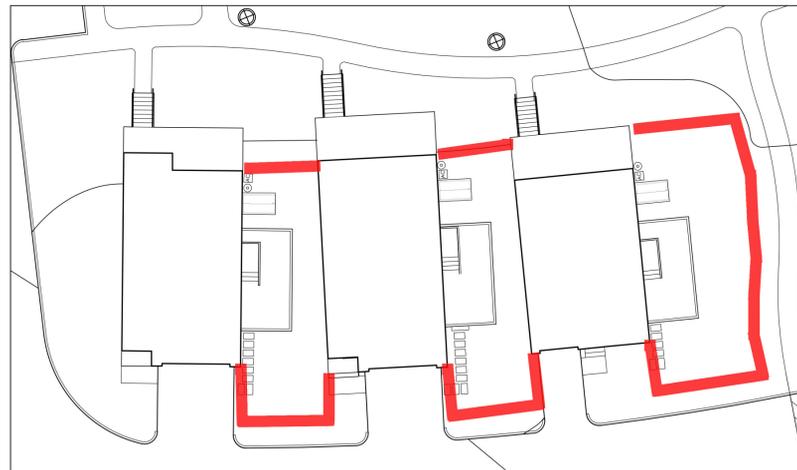
UNITS 1-3



UNITS 9-12



UNITS 20-22



Entry signage



Black Chain link Fence, no top rail



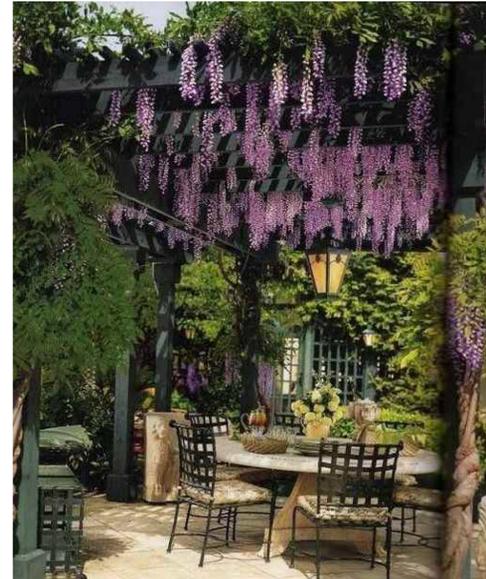
Board fence, 6' ht.



Stone pedestrian arch



Sideyard patio



Trellis with Vines at Gazebo



STREET LIGHT, 16 FT. POLE  
not to scale



PEDESTRIAN LIGHT, 10 FT. POLE  
not to scale



PERGOLA DOWNLIGHT  
not to scale



STEP LIGHT  
not to scale

RYAN ASSOCIATES

Building 4  
144 Moody Street  
Waltham, MA 02453  
ph: 781.314.0401  
fx: 781.314.0151

THE VILLAGE AT  
NORFOLK

Norfolk, Massachusetts

PRECEDENT IMAGES  
NOT TO SCALE

ISSUED	05-10-17	ZBA SUBMITTAL	ZBA SUBMITTAL, REVISIONS
1			
2	05-24-17		
3			
4			
5			
6			

L-4.0