

Exterior Cladding

Cladding/Color Schedule

Material cut sheets

Colored Elevations

Contextual/Historical Reference (Brewery Building)

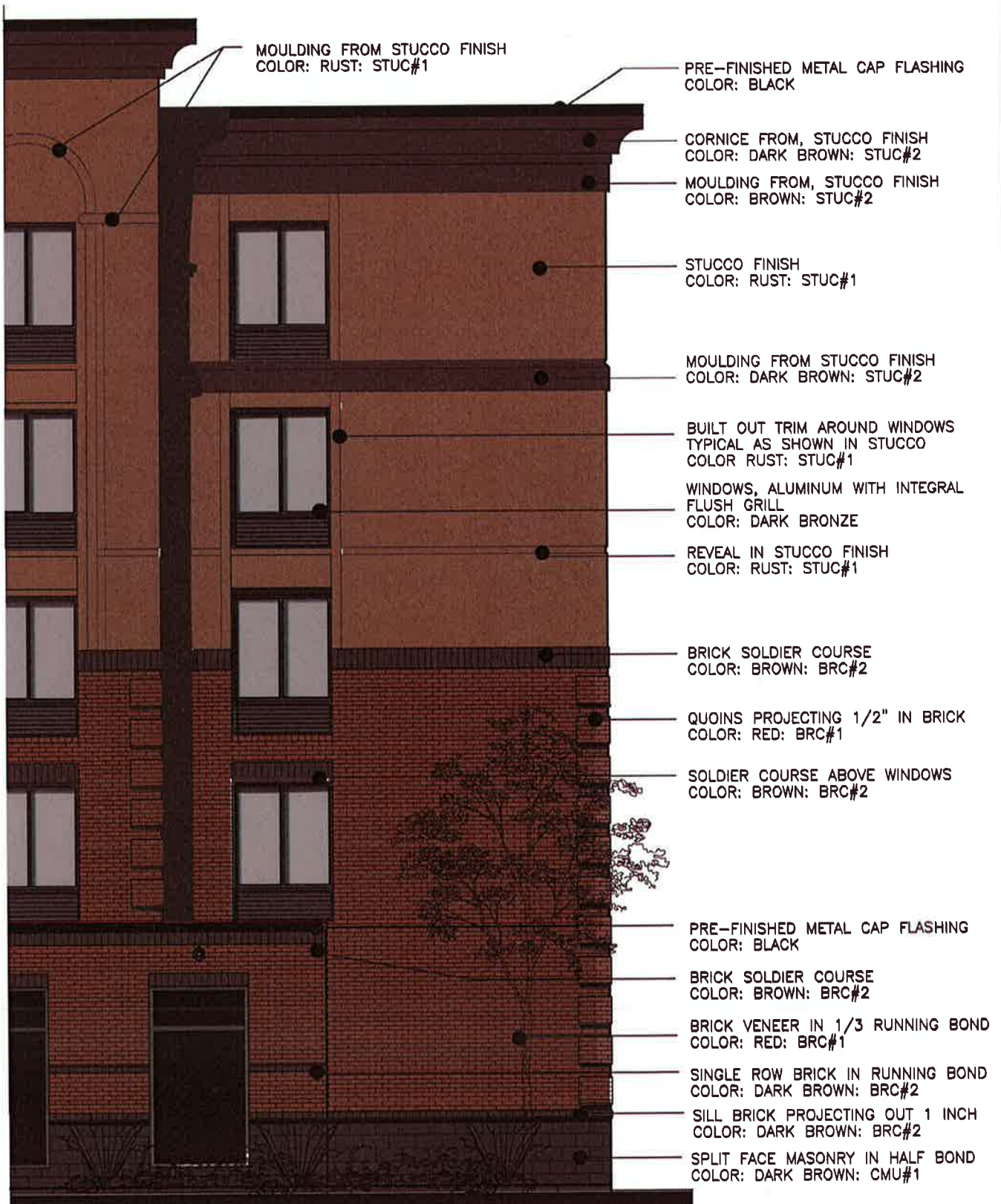
Hilton Garden Inn

Olympia, Wa



OLYMPIA HILTON GARDEN INN

PARTIAL WALL ELEVATION



CLADDING MATERIAL AND COLOR SCHEDULE

SEE SPECIFICATION SHEETS

| | |
|-----------------------------|---|
| CONTROL #: | STUC#1 |
| ITEM: | Stucco Field Color |
| MANUFACTURER: | Senergy |
| CONTACT INFORMATION: | Salmon Bay Sand & Gravel 5228 Shilshole Avenue NorthWest Seattle, WA 98107 P: 206.784.1234 F: 206.781.0984 |
| WEB ADDRESS: | http://www.senergy.basf.com |
| PRODUCT: | Synthetic Stucco |
| COLOR: | Terra Cotta: Sherwin Williams medium brown |
| SIZE: | N/A |
| Mortar: | N/A |

Product Image



| | |
|-----------------------------|---|
| CONTROL #: | STUC#2 |
| ITEM: | Stucco Cornice Color |
| MANUFACTURER: | Senergy |
| CONTACT INFORMATION: | Salmon Bay Sand & Gravel 5228 Shilshole Avenue NorthWest Seattle, WA 98107 P: 206.784.1234 F: 206.781.0984 |
| WEB ADDRESS: | http://www.senergy.basf.com |
| PRODUCT: | Synthetic Stucco |
| COLOR: | Hopsack: Sherwin Williams dark brown |
| SIZE: | N/A |
| Mortar: | N/A |

Product Image



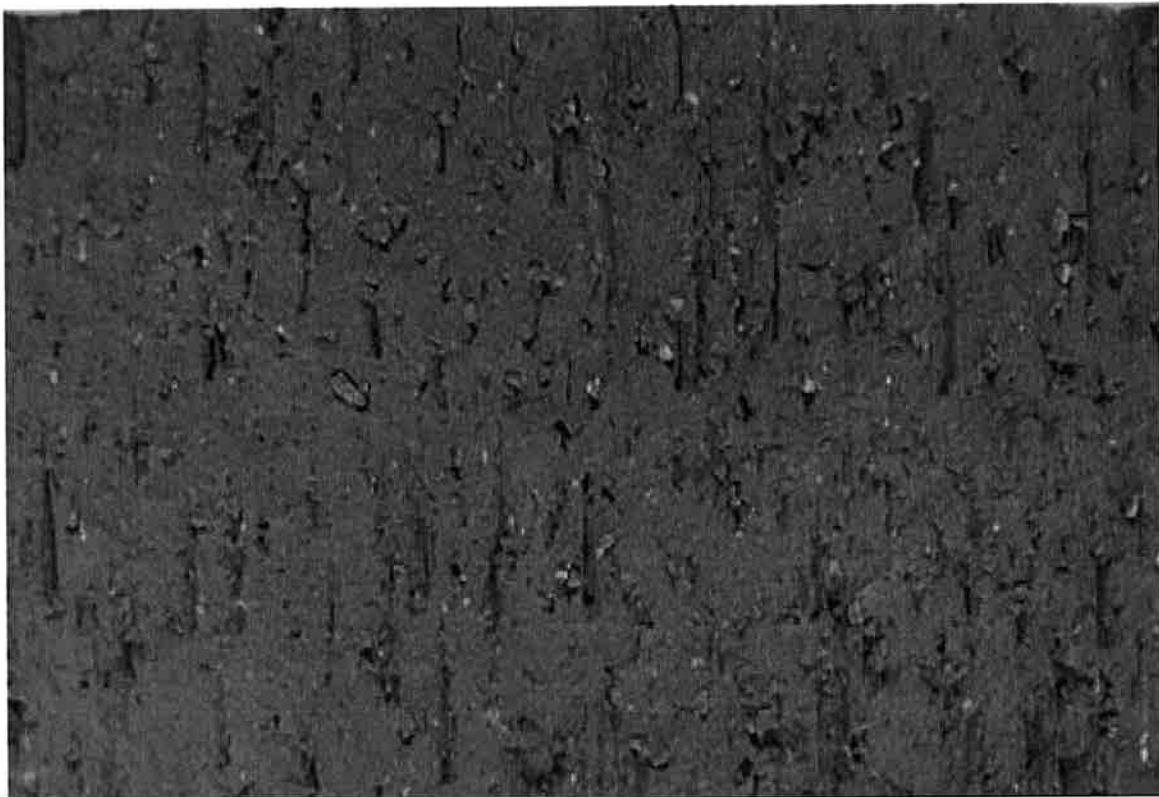
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|-----------------------------|---|
| CONTROL #: | BRC #1 |
| ITEM: | Field Brick |
| MANUFACTURER: | Interstate Brick |
| CONTACT INFORMATION: | 9780 South 5200 West West Jordan, UT 84081 Toll Free: (800) 233-8654 |
| WEB ADDRESS: | http://www.interstatebrick.com |
| PRODUCT: | Brick |
| COLOR: | Autumn Red |
| SIZE: | 2 1/4" Modular |
| Mortar: | Dark Brown |

Product Image



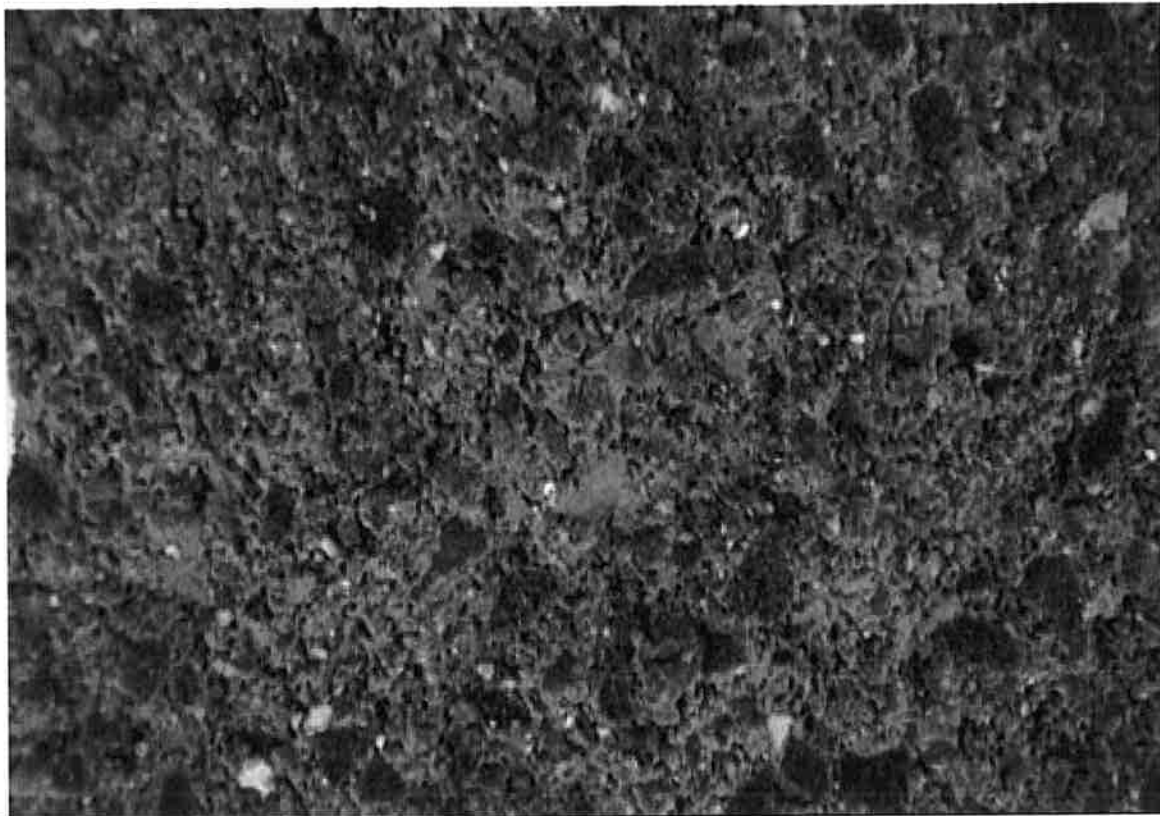
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|-----------------------------|---|
| CONTROL #: | BRC #2 |
| ITEM: | Accent Brick |
| MANUFACTURER: | Interstate Brick |
| CONTACT INFORMATION: | 9780 South 5200 West West Jordan, UT 84081 Toll Free: (800) 233-8654 |
| WEB ADDRESS: | http://www.interstatebrick.com |
| PRODUCT: | Brick |
| COLOR: | Walnut |
| SIZE: | 2 1/4" Modular |
| Mortar: | Dark Brown |

Product Image



| | |
|-----------------------------|--|
| CONTROL #: | Cmu#1 |
| ITEM: | Concrete Masonry Unit |
| MANUFACTURER: | Willamette Greystone |
| CONTACT INFORMATION: | 1690 Edgewater St. NW Salem, OR 97304 Phone: (503)585-1323 Fax: (503)585-4545 |
| WEB ADDRESS: | http://www.willamettegraystone.com |
| PRODUCT: | Split face |
| COLOR: | Pinot w/ black aggregate |
| SIZE: | 8"x8"x16" |
| Mortar: | Dark Brown |

Product Image





SOUTH EAST ELEVATION
1/8" = 1'-0"

18H
A5.01



NORTH WEST ELEVATION

1/8" = 1'-0"



NORTH EAST ELEVATION
1/8" = 1'-0"

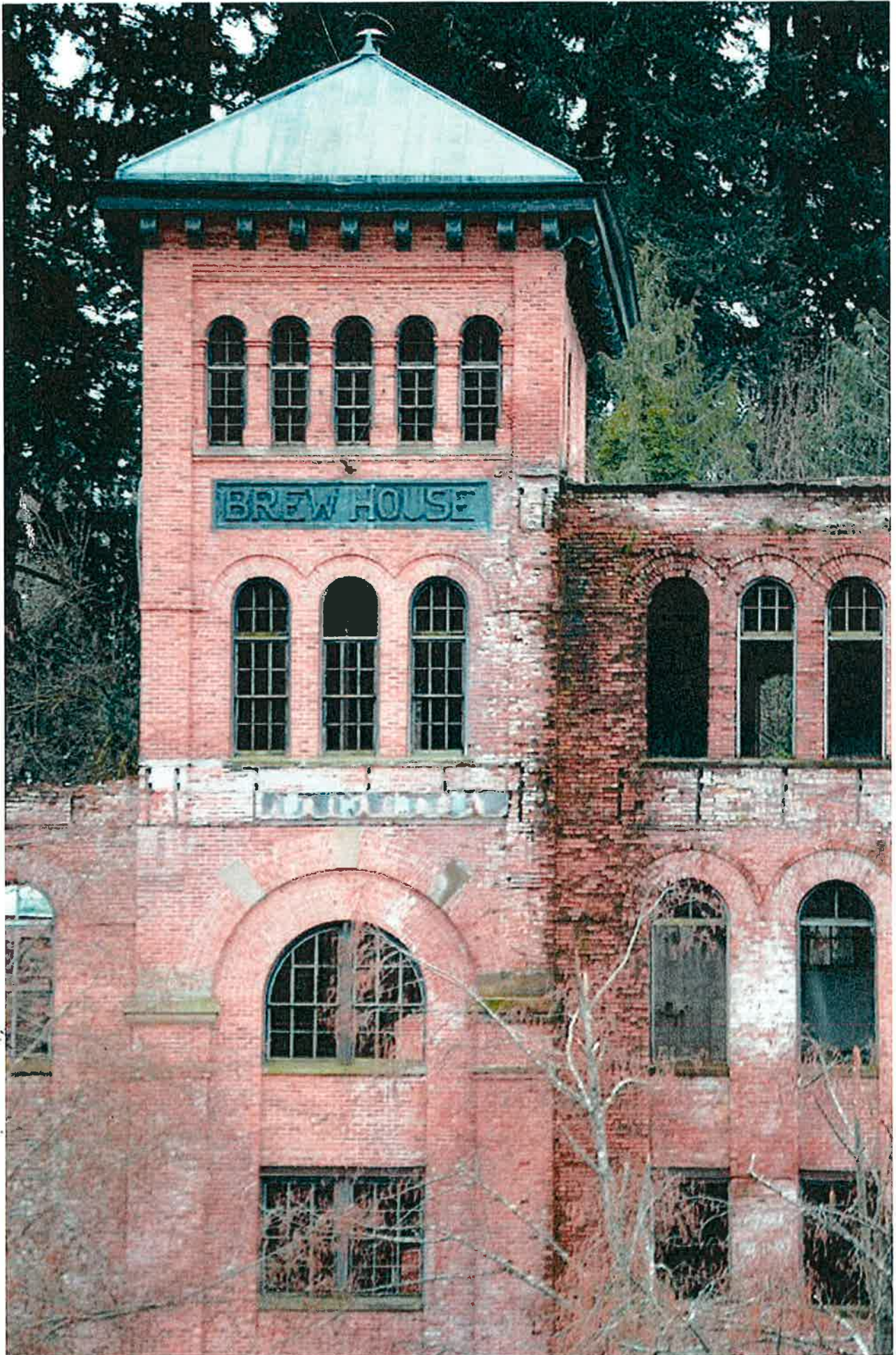
14A
A5.01



SOUTH WEST ELEVATION

1/8" = 1'-0"

14A
A5.02



Landscape Plan

Area Development Plan

Site Plan (civil)

Landscape Plan

Planting schedule

Hilton Garden Inn

Olympia, Wa





AREA DEVELOPMENT AND SITE PLAN

 $1'' = 20' - 0$

HILTON GARDEN INN

SITE PLAN

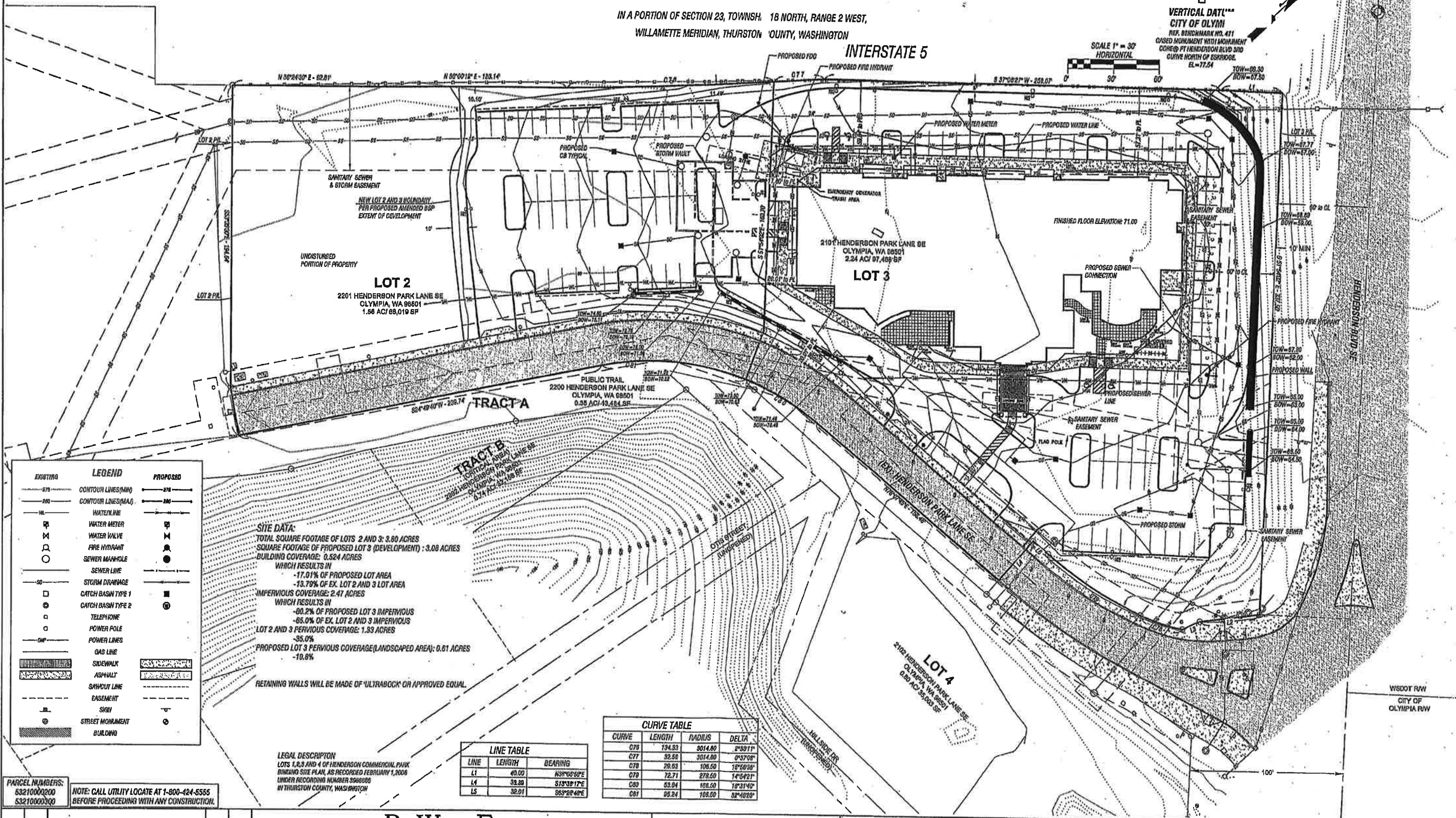
IN A PORTION OF SECTION 23, TOWNSHIP 18 NORTH, RANGE 2 WEST,
WILLAMETTE MERIDIAN, THURSTON COUNTY, WASHINGTON

INTERSTATE 5



VERTICAL DATUM
CITY OF OLYMPIA
REF. BENCHMARK NO. 471
CORED MONUMENT WITH MONUMENT
CORED @ FT HENDERSON BLVD AND
CURVE NORTH OF ESKRIDGE
ELEVATION 77.54

SCALE 1" = 30'
HORIZONTAL



| EXISTING | LEGEND | PROPOSED |
|---------------------|---------------------|---------------------|
| CONTOUR LINES (MAK) | CONTOUR LINES (MAK) | CONTOUR LINES (MAK) |
| WATERLINE | WATER METER | WATER METER |
| WATER VALVE | WATER VALVE | WATER VALVE |
| FIRE HYDRANT | FIRE HYDRANT | FIRE HYDRANT |
| SEWER MANHOLE | SEWER MANHOLE | SEWER MANHOLE |
| SEWER LINE | SEWER LINE | SEWER LINE |
| STORM DRAINAGE | STORM DRAINAGE | STORM DRAINAGE |
| CATCH BASIN TYPE 1 | CATCH BASIN TYPE 1 | CATCH BASIN TYPE 1 |
| CATCH BASIN TYPE 2 | CATCH BASIN TYPE 2 | CATCH BASIN TYPE 2 |
| TELEPHONE | TELEPHONE | TELEPHONE |
| POWER POLE | POWER POLE | POWER POLE |
| POWER LINES | POWER LINES | POWER LINES |
| GAS LINE | GAS LINE | GAS LINE |
| SIDEWALK | SIDEWALK | SIDEWALK |
| ASPHALT | ASPHALT | ASPHALT |
| SAW CUT LINE | SAW CUT LINE | SAW CUT LINE |
| EASEMENT | EASEMENT | EASEMENT |
| SHOW | SHOW | SHOW |
| STREET MONUMENT | STREET MONUMENT | STREET MONUMENT |
| BUILDING | BUILDING | BUILDING |

SITE DATA:
TOTAL SQUARE FOOTAGE OF LOTS 2 AND 3: 3.80 ACRES
SQUARE FOOTAGE OF PROPOSED LOT 3 (DEVELOPMENT): 3.08 ACRES
BUILDING COVERAGE: 0.524 ACRES
WHICH RESULTS IN:
-17.01% OF PROPOSED LOT AREA
-13.79% OF EX. LOT 2 AND 3 LOT AREA
IMPERVIOUS COVERAGE: 2.47 ACRES
WHICH RESULTS IN:
-60.2% OF PROPOSED LOT 3 IMPERVIOUS
-65.0% OF EX. LOT 2 AND 3 IMPERVIOUS
LOT 2 AND 3 PERVIOUS COVERAGE: 1.33 ACRES
-35.0%
PROPOSED LOT 3 PERVIOUS COVERAGE (LANDSCAPED AREA): 0.61 ACRES
-10.8%

RETAINING WALLS WILL BE MADE OF 'ULTRABLOCK' OR APPROVED EQUAL.


LEGAL DESCRIPTION
LOTS 1, 2, 3 AND 4 OF HENDERSON COMMERCIAL PARK
BINDING SITE PLAN, AS RECORDED FEBRUARY 1, 2008
UNDER RECORDING NUMBER 3986800
IN THURSTON COUNTY, WASHINGTON

| LINE | LENGTH | BEARING |
|------|--------|-------------|
| L1 | 40.00 | N35°05'50"E |
| L4 | 33.88 | S15°38'12"E |
| L5 | 32.01 | S65°28'48"E |

| CURVE | LENGTH | RADIUS | DELTA |
|-------|--------|---------|-----------|
| C76 | 134.93 | 3014.80 | 2°39'11" |
| C77 | 32.68 | 3014.80 | 0°37'08" |
| C78 | 28.63 | 106.50 | 10°56'38" |
| C79 | 72.71 | 278.50 | 14°54'21" |
| C80 | 53.94 | 168.50 | 10°31'40" |
| C81 | 66.24 | 168.50 | 3°44'29" |


PARCEL NUMBERS:
53210000200
53210000300
NOTE: CALL UTILITY LOCATE AT 1-800-424-5555
BEFORE PROCEEDING WITH ANY CONSTRUCTION.

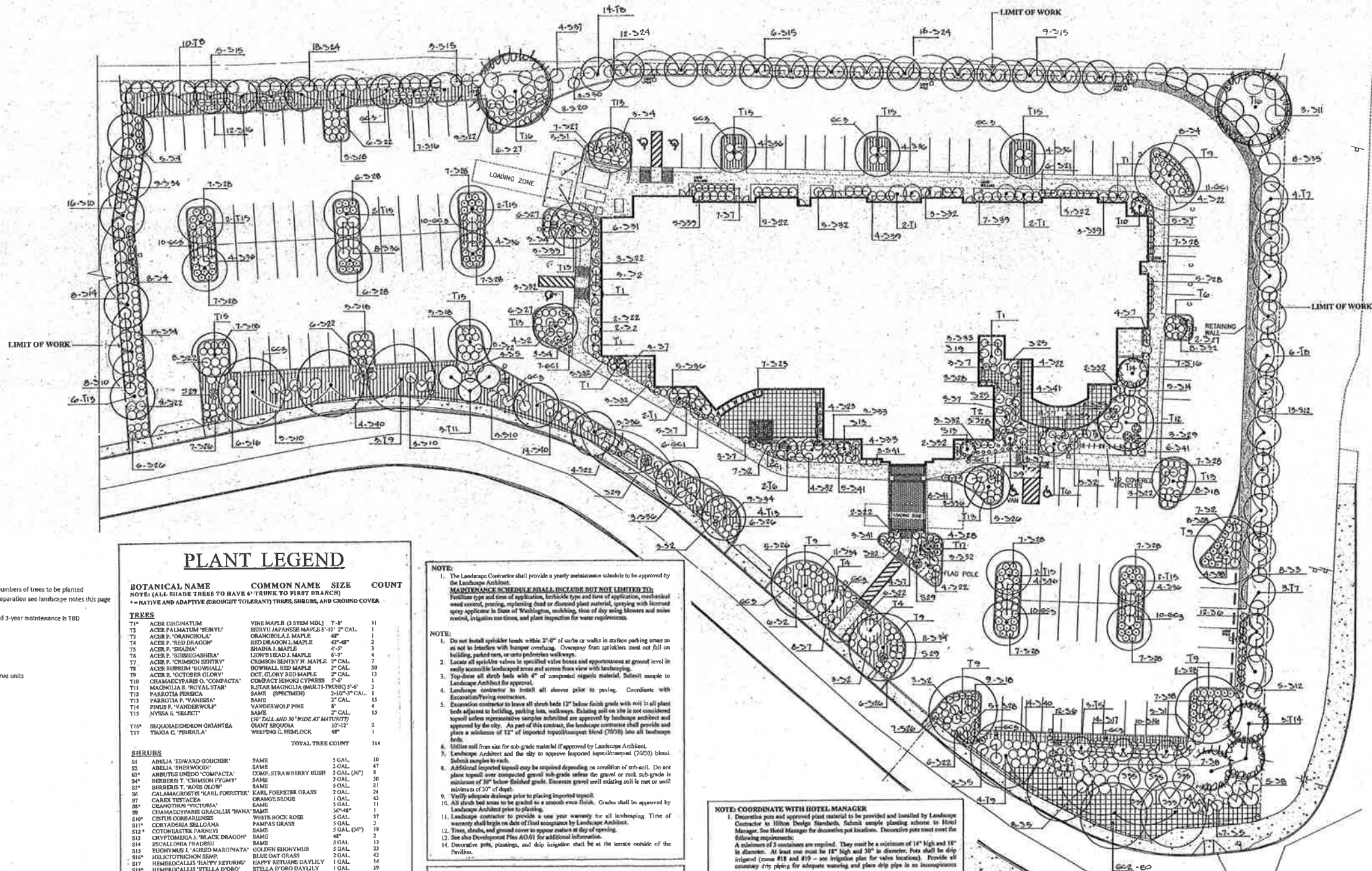
| NO. | DATE | CITY COMMENTS | REVISION | BY | APVD |
|-----|------|---------------|----------|-----|------|
| 1 | 2.14 | | | PJM | LLS |



PacWest Engineering, LLC
10209 BRIDGEPORT WAY SW, STE C-1
LAKEWOOD, WA 98499
Phone (253) 830-5960
Fax (253) 830-5999

HILTON GARDEN INN
OLYMPIA, WA
PREPARED FOR:
CAPITOL HOSPITALITY, LLC

| | | | | |
|----------|-------------|---|---------|----------------------|
| DESIGN | P. MARRINAN |  | SHEET | 1 OF 1 |
| DRAWN | P. MARRINAN | | DWG | 12-512 SITE PLAN.DWG |
| CHECKED | L. SMITH | | DATE | 3-25-2014 |
| APPROVED | L. SMITH | | PROJECT | 12-512 |

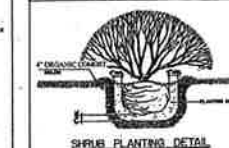
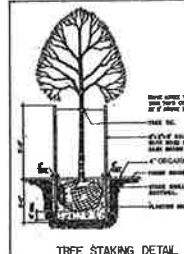


Tree Plan Information
Per Urban Forestry Manual Level IV
1. No existing trees will be retained on site
2. Planting plan
a. See Plant Legend below for size, species and numbers of trees to be planted
b. For narrative description and details of site preparation see landscape notes this page
c. Trees are projected to be planted fall of 2014
d. Cost estimate for purchase and installation and 3-year maintenance is TBD
e. Tree density calculation
1. Buildable area of the site 165,528 sf
2. Building coverage 28,156 sf
3. Impervious coverage 107,593 sf
4. Pervious coverage 57,935 sf
f. Tree units required (3,800sf x (30units)) = 134 tree units
g. Proposed number of tree units provided 134

| PLANT LEGEND | | | | |
|---|-----------------------------------|-------------------|-------|--|
| BOTANICAL NAME | COMMON NAME | SIZE | COUNT | |
| NOTE: (ALL SHADE TREES TO HAVE 6" TRUNK TO FIRST BRANCH) | | | | |
| * = NATIVE AND ADAPTIVE (PROUDT TOLERANT TREES, SHRUBS, AND GROUND COVER) | | | | |
| TREES | | | | |
| T1 ACER CIRCINATUM | VINE MAPLE (3 STEM MDL) | 7'-8" | 11 | |
| T2 ACER PALMATUM 'BERRYU' | SERVU JAPANESE MAPLE 5'-10" | 2" CAL. | 1 | |
| T3 ACER 'ORANGEADE' | ORANGEADE MAPLE | 4" | 2 | |
| T4 ACER 'RED DRAGON' | RED DRAGON MAPLE | 4"-5" | 2 | |
| T5 ACER 'P. SHIMADA' | SHIMADA MAPLE | 4"-5" | 3 | |
| T6 ACER 'S. SUBINOSABURA' | LOOPY LEAF MAPLE | 6'-7" | 4 | |
| T7 ACER 'CHIMSON SENTRY' | CHIMSON SENTRY MAPLE | 2" CAL. | 7 | |
| T8 ACER 'BIRCHIN' 'BIRCHIN' | PORWALL RED MAPLE | 2" CAL. | 30 | |
| T9 ACER 'OCTOBER GLORY' | OCT. GLORY RED MAPLE | 2" CAL. | 13 | |
| T10 CHAMAECYRUS A. 'COMPACTA' | COMPACT BIRCH | 5'-6" | 1 | |
| T11 MAGNOLIA S. 'ROYAL STAR' | R. STAR MAGNOLIA (MULTI-TRUNK) | 5'-6" | 1 | |
| T12 PARROTIA RUSSICA | SAME (SPECIMEN) | 2 1/2" 3" CAL. | 1 | |
| T13 PARROTIA P. 'VANDERSA' | SAME | 2" CAL. | 15 | |
| T14 PINUS F. 'VANDERWOLF' | VANDERWOLF PINE | 8" | 4 | |
| T15 NYSSA S. 'SELECT' | (5' TALL AND 3" WIDE AT MATURITY) | 10'-12" | 2 | |
| T16 SEQUOIA DENDRON ORIENTEA | GIANT SEQUOIA | 10'-12" | 2 | |
| T17 THUJA C. 'TIDELOCK' | WINTERGREEN CEDAR | 4" | 1 | |
| TOTAL TREE COUNT | | | 114 | |
| SHRUBS | | | | |
| S1 ABELIA 'EDWARD GOUCHER' | SAME | 5 GAL. | 10 | |
| S2 ABELIA 'WINTERWOOD' | SAME | 2 GAL. | 47 | |
| S3 ARBUTUS UNEDO 'COMPACTA' | COMP. STRAWBERRY BUSH | 5 GAL. (40") | 8 | |
| S4 BERBERIS 'T. CHIMSON PYGMY' | SAME | 2 GAL. | 20 | |
| S5 BERBERIS 'T. WOODS GLOOM' | SAME | 5 GAL. | 21 | |
| S6 CALAMAGROSTIS 'KARL FORSTER' | KARL FORSTER GRASS | 2 GAL. | 24 | |
| S7 CALEX TESTACEA | WAXY BROOM | 1 GAL. | 43 | |
| S8 CRANETHRA 'VICTORIA' | SAME | 5 GAL. | 1 | |
| S9 CHAMAECYRUS GRACILIS 'NANA' | WHITE ROCK ROSE | 5 GAL. | 37 | |
| S10 CISTIS COCAINESSIS | PAMPAS GRASS | 5 GAL. | 2 | |
| S11 CORTADERIA SELLADANA | SAME | 5 GAL. (40") | 18 | |
| S12 COTONASTER PARKINSONII | SAME | 2 GAL. | 1 | |
| S13 CRATYGEOMORPHIS 'BLACK DRAGON' | SAME | 4" | 2 | |
| S14 ESCALLONIA FRAGRANS | SAME | 5 GAL. | 13 | |
| S15 EUNYMIUS 'AUREO MARONATA' | GOLDEN EUNYMIUS | 5 GAL. | 23 | |
| S16 HELICTOTRICHON SEM. | BLUE CAT GRASS | 2 GAL. | 14 | |
| S17 HEMEROCALLIS 'TAPPY RETURN' | TAPPY RETURN DAYLILY | 1 GAL. | 39 | |
| S18 HEMEROCALLIS 'STELLA D'ORO' | STELLA D'ORO DAYLILY | 1 GAL. | 39 | |
| S19 HOSTA 'PATRIOT' | SAME | 2 GAL. | 1 | |
| S20 HYDRANGEA Q. 'SNOW QUEEN' | SAME | 2 GAL. | 3 | |
| S21 ILEX C. 'ICE FENNEL' | ICE FENNEL HOLLY | 2 GAL. | 79 | |
| S22 NERANDRA B. 'TULSTREAM' | SAME | 2 GAL. | 11 | |
| S23 NERANDRA D. 'WOODWAY' | SAME | 2 GAL. | 11 | |
| S24 OSAMANTHUS BURLEIGHII | SAME | 2 GAL. | 46 | |
| S25 OSAMANTHUS GOSCHKEI | SAME | 2 GAL. | 3 | |
| S26 PENNISTEM A. 'BURLEIGHII' DUNNII | SAME | 2 GAL. | 42 | |
| S27 PENNISTEM A. 'HAMBELI' | SAME | 2 GAL. | 22 | |
| S28 PENNISTEM A. 'LITTLE BUNNY' | SAME | 2 GAL. | 131 | |
| S29 PHORUM T. 'PLATT'S BLACK' | PLATT'S BLACK NZ. FLAX | 2 GAL. | 7 | |
| S30 PHYSOCARPUS 'SUMMER WHITE' | SAME | 2 GAL. | 3 | |
| S31 PIERIS J. 'DOROTHY WYVON' | SAME | 2 GAL. | 19 | |
| S32 PIERIS FRIEDLIEBI | SAME | 2 GAL. | 17 | |
| S33 POLYSTICHUM MUNITUM | SWAMP FERN | 1 GAL. | 19 | |
| S34 PRINCE L. 'MTC. VESPER' | SAME (24" O.C.) | 1 GAL. | 35 | |
| S35 PRINCE L. 'LANTANA' | PORTUGUESE LAUREL | 4"-5" | 13 | |
| S36 RANUNCULUS L. 'MORRIS' | SAME | 2 GAL. | 50 | |
| S37 RHODODENDRON 'NANA KUSCHKE' | SAME | 30"-36" | 4 | |
| S38 ROKA KNOCKOUT | KNOCKOUT ROSE | 2 GAL. | 11 | |
| S39 SAROCOCYCA CONFUSA | SAME | 2 GAL. | 19 | |
| S40 SPIREA J. 'WAGG CARPET' | SAME | 2 GAL. | 22 | |
| S41 TEUCRIUM CHAMAEDRYS | WALL GERANIUM | 2 GAL. | 29 | |
| TOTAL SHRUB COUNT | | | 1,529 | |
| GROUND COVER | | | | |
| G1 ALPISIA 'CHOCOLATE CHIP' | SAME | 1 GAL. (24" O.C.) | 33 | |
| G2 COTONEASTER 'VORLAW BEAUTY' | SAME | 1 GAL. (24" O.C.) | 105 | |
| G3 FLACADIA CHLOEIDES | SAME | 1 GAL. (24" O.C.) | 781 | |
| TOTAL GROUND COVER COUNT | | | 992 | |

NOTE: 1. The Landscape Contractor shall provide a yearly maintenance schedule to be approved by the Landscape Architect.
2. Maintenance schedule shall include but not be limited to:
a. Fertilizer type and time of application, herbicide type and time of application, mechanical weed control, pruning, mulching (dead or diseased plant material, spraying with insecticide spray application in June of Washington, mulching, time of day using blowers and noise control, irrigation run times, and plant inspection for water requirements.
3. The Landscape Contractor shall provide a yearly maintenance schedule to be approved by the Landscape Architect.
4. Landscape contractor to install all shrubs prior to paving. Coordinate with Excavation/Paving contractor.
5. Excavation contractor to leave all shrubs 12" below finish grade with soil in all plant beds adjacent to building, parking lots, walkways. Existing soil on site is not considered topsoil unless representative samples submitted are approved by landscape architect and approved by the city. As part of this contract, the landscape contractor shall provide and place a minimum of 12" of imported topsoil/loam soil (70/30) into all landscape beds.
6. Mulch soil from site for sub-grade material if approved by Landscape Architect.
7. Landscape Architect and the city to approve imported topsoil/loam soil (70/30) blend. Submit samples to test.
8. Additional imported topsoil may be required depending on condition of sub-soil. Do not place topsoil over compacted gravel sub-grade unless the gravel or rock sub-grade is minimum of 30" below finished grade. Excavate gravel until existing soil is met or until minimum of 30" of depth.
9. Verify adequate drainage prior to placing imported topsoil.
10. All shrub beds areas to be graded to a smooth even finish. Grading shall be approved by Landscape Architect prior to planting.
11. Landscape contractor to provide a one year warranty for all landscaping. Time of warranty shall begin on date of final acceptance by Landscape Architect.
12. Trees, shrubs, and ground cover to be replaced within 30 days of planting.
13. See also Development Plan A001 for additional information.
14. Decorative potted plantings, and drip irrigation shall be at the terrace outside of the Pavilion.

LANDSCAPE NOTES
1. PLANT SPECIES SHOWN ARE THE CONTRACTOR'S RESPONSIBILITY.
2. OTHER PLANTS SHALL BE PROVIDED BY THE LANDSCAPE CONTRACTOR. (CONCRETE, BRICK, BUILDING MATERIALS, OR ANY OTHER ITEMS, MATERIALS, AND POWER GRASS AT LANDSCAPE AREA).
3. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF LANDSCAPE CONTRACTOR WITH APPROVAL FROM THE CITY.
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NOTE: LANDSCAPE CONTRACTOR TO CONFORM TO THE FINISH GRADES OF CIVIL ENGINEERING GRADING PLAN.

Charles Mangum & Associates
Landscape Architecture
5144 36th Av. S.E. Salem, Oregon 97317 (503) 364-1240

LANDSCAPE PLAN
SCALE: 1"=20'-0"



DATE: 6/21/13
JOB NO: 12006
JOB NAME: OLYMPIA
DRAWN: [Signature]

ARCHITECTURE
COMMERCIAL - HOSPITALITY - RESIDENTIAL - INTERIORS
OLYMPIA HILTON
GARDEN INN
2301 HENDERSON PARK LANE SE
SALMON, WA 98581
TEL: 509.425.8800 FAX: 509.425.8802
WWW.CHARLES-MANGUM.COM


DATE: 6/21/13
JOB NO: 12006
JOB NAME: OLYMPIA
DRAWN: [Signature]

PROJECT: OLYMPIA HGI

TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)

| | | | | | |
|--|--|--|---|--|---|
| NAME DECIDUOUS TREE Acer circinatum (3 stem min.) Vine Maple *native and adaptive |  | NAME DECIDUOUS TREE Acer palmatum 'Seiryu' Seiryu Japanese Maple |  | NAME DECIDUOUS TREE Acer palmatum 'Shishigashira' Lion's head Japanese Maple |  |
| DECIDUOUS TREE Acer platanoides 'Crimson Sentry' Crimson Sentry Norway Maple |  | DECIDUOUS TREE Acer palmatum 'Orangeola' Orangeola Japanese Maple |  | DECIDUOUS TREE Acer palmatum 'Red Dragon' Red Dragon Japanese Maple |  |
| DECIDUOUS TREE Acer palmatum 'Shaina' Shaina Japanese Maple |  | DECIDUOUS TREE Acer rubrum 'Bowhall' Bowhall Red Maple |  | DECIDUOUS TREE Acer rubrum 'October glory' October Glory Red Maple |  |











PROJECT: OLYMPIA HGI
TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)

| NAME | IMAGE | NAME | IMAGE | NAME | IMAGE |
|---|---|--|---|--|--|
| EVERGREEN TREE Chamaecyparis obtusa 'compacta' Compact Hinoki Cypress |  | DECIDUOUS TREE Magnolia stellata Star Magnolia |  | DECIDUOUS TREE Parrotia persica Persian Ironwood |  |
| DECIDUOUS TREE Parrotia persica 'vanessa' Vanessa Persian Ironwood |  | EVERGREEN TREE Pinus flexilis 'Vanderwolf' Vanderwolf Pine |  | DECIDUOUS TREE Nyssa sylvatica 'Select' Tupelo/ Black gum 'select' |  |
| EVERGREEN TREE Sequoiadendron giganteum Giant Sequoia |  | EVERGREEN TREE Tsuga c. 'pendula' Weeping Canadian Hemlock |  | | |

PROJECT: **OLYMPIA HGI**
TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)

| NAME | IMAGE | NAME | IMAGE | NAME | IMAGE |
|--|--|--|---|--|---|
| SEMI- EVERGREEN SHRUB Abelia 'Edward Goucher' Abelia 'Edward Goucher' |  | SEMI-EVERGREEN SHRUB Abelia x. 'sherwoodi' Abelia Sherwoodi |  | DECIDUOUS SHRUB Berberis t. 'crimson pygmy' Crimson Pygmy Barberry *native and adaptive |  |
| DECIDUOUS SHRUB Berberis t. 'rose glow' Rose Glow Barberry *native and adaptive |  | DECIDUOUS GRASS Calamagrostis 'Karl Foerster' Karl Foerster Grass |  | DECIDUOUS GRASS Carex testacea Orange Sedge |  |
| EVERGREEN SHRUB Ceanothus 'Victoria' Ceanothus Victoria *native and adaptive |  | EVERGREEN SHRUB Chamaecyparis gracillis 'nana' Chamaecyparis g. 'nana' |  | EVERGREEN SHRUB Cistus corbariensis White Rock Rose *native and adaptive |  |
| DECIDUOUS SHRUB/GRASS Cortaderia selloana Pampass grass *native and adaptive |  | EVERGREEN SHRUB Cotoneaster parneyi Cotoneaster parneyi *native and adaptive |  | DECIDUOUS SHRUB Cryptomeria j. 'Black Dragon' Cryptomeria j. 'Black Dragon' |  |

PROJECT: OLYMPIA HGI
TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)







| NAME | IMAGE | NAME | IMAGE | NAME | IMAGE |
|--|---|---|---|--|---|
| EVERGREEN SHRUB Escallonia fradesii Escallonia fradesii |  | EVERGREEN SHRUB Euonymus j. 'areo-marginata' Golden Euonymus |  | EVERGREEN GRASS Helictotrichon sempervirens Blue Oat Grass *native and adaptive |  |
| DECIDUOUS SHRUB Hemerocallis 'stella d'oro' Stella daylily |  | DECIDUOUS SHRUB Hosta 'Patriot' Hosta Patriot |  | DECIDUOUS SHRUB Hydrangea q. 'Snow Queen' Hydrangea q. 'Snow Queen' |  |
| EVERGREEN SHRUB Ilex crenata 'Sky Pencil' Sky Pencil Holly |  | EVERGREEN SHRUB Nandina domestica 'Gulfstream' Gulfstream Nandina *native and adaptive |  | EVERGREEN SHRUB Nandina d. 'Moon Bay' Moon Bay Nandina *native and adaptive |  |
| EVERGREEN SHRUB Osmanthus h. 'burkwoodi' Osmanthus burkwoodi *native and adaptive |  | EVERGREEN SHRUB Osmanthus h. 'Goshiki' Osmanthus h. 'Goshiki' |  | EVERGREEN SHRUB Phormium t. 'Platt's Black' Platt's Black New Zealand Flax |  |

PROJECT: OLYMPIA HGI
TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)

| NAME | IMAGE | NAME | IMAGE | NAME | IMAGE |
|---|--|---|---|---|---|
| DECIDUOUS GRASS Pennisetum alopecuriodes 'Burgundy Bunny' Burgundy Bunny grass *native and adaptive |  | DECIDUOUS GRASS Pennisetum alopecuriodes 'hameln' Dwarf fountain grass *native and adaptive |  | DECIDUOUS GRASS Pennisetum alopecuriodes 'little bunny' Little bunny dwarf fountain grass *native and adaptive |  |
| DECIDUOUS SHRUB Physocarpus 'Summer Wine' Physocarpus 'Summer Wine' *native and adaptive |  | EVERGREEN SHRUB Pieris japonica 'Dorothy Wykoff' Pieris Dorothy Wykoff |  | EVERGREEN SHRUB Pieris japonica 'prelude' Pieris prelude |  |
| EVERGREEN SHRUB Polystichum munitum Sword Fern *native and adaptive |  | EVERGREEN SHRUB Prunus lusitanica Portugese Laurel *native and adaptive |  | EVERGREEN SHRUB Raphiolepis u. 'minor' Dwarf Yeddo Hawthorn *native and adaptive |  |
| EVERGREEN SHRUB Rhododendron 'Anah Kruschke' Anah Kruschke Rhododendron |  | DECIDUOUS GRASS Rosa 'Knockout' Knockout Rose |  | EVERGREEN SHRUB Sarcococca confuse Sweet Box |  |

PROJECT: OLYMPIA HGI

TREES, SHRUBS AND GROUND COVER: (Pictures of Genus, species, and common names)

| NAME | IMAGE | NAME | IMAGE | NAME | IMAGE |
|---|--|---|--|---|--|
| <div>DECIDUOUS SHRUB</div> <div>Spirea japonica 'magic carpet'</div> <div>Magic Carpet Spirea</div> <div>*native and adaptive</div> |  | <div>DECIDUOUS SHRUB</div> <div>Teucrium chamaedrys</div> <div>Wall germander</div> <div>*native and adaptive</div> |  | | |
| <div>EVERGREEN GROUND COVER</div> <div>Ajuga 'chocolate chip'</div> <div>'Chocolate chip' Bugleweed</div> |  | <div>EVERGREEN GROUND COVER</div> <div>Cotoneaster dammeri 'Coral beauty'</div> <div>*native and adaptive</div> |  | <div>EVERGREEN GROUND COVER</div> <div>Fragaria chiloensis</div> <div>Wild strawberry</div> <div>*native and adaptive</div> |  |
| <div>EVERGREEN GROUND COVER</div> <div>Prunus l. 'Mt. Vernon'</div> <div>Mt. Vernon Laurel</div> <div>*native and adaptive</div> |  | | | | |

Exterior Lighting

Foot candle calculations

Light fixture cut sheets

Hilton Garden Inn

Olympia, Wa



- b. 24/7 driver assistance including alternate charging station locations.
- c. Access control to eliminate energy theft and improve safety.
- d. Notifications to driver of charge status including completion or interruption of charge.
- e. Cord management system including long reach and storage.
- 6. Enclosure must be corrosion and weather resistant and comply with NEMA 3R.
- 7. Stations must be SAE J1772 compliant and meet all UL and NEC requirements.
- 8. Signage must be provided designating parking space(s) for the electric vehicle charging stations.
- 9. Stations must meet Hilton Worldwide and any applicable local or federal accessibility requirements.

2501.07 Flag Poles

- A. One 30'-0" / 9.15 m flag pole is required for the national flag. Optionally, one 35'-0" / 10.67 m pole for the national flag and two 25'-0" / 7.62 m poles, one for the state and one for the Brand flag, are permitted. When multiple poles are used, they must be spaced so that each flag cannot wrap itself around another pole. Flag pole finish must coordinate with exterior materials and color schemes.
- B. Flag poles must be illuminated. Lighting must be in ground mounted up lighting aimed on the flags. Pole mounted fixtures 8'-0" / 2.4 m above the finished floor are allowed in climates susceptible to snow.

USE THIS OPTION

2501.08 Exterior Lighting/Electrical

- A. Not applicable to this Brand

- ✓ B. Exterior lighting used to illuminate building surfaces (including elevations, canopies, roofs and grounds) must be controlled so that only the defined building surfaces are illuminated. Light must not shine beyond the building surfaces to adjacent areas or the sky.
- ✓ C. All secondary guest entrances must be well lit and readily identifiable.
- ✓ D. All exterior light fixtures must be suitable for outdoor installation and must have coordinated color temperature and characteristics.
- E. Not applicable to this Brand
- F. Fixtures for building uplighting must not be mounted to the building. Parking lot light fixtures must not be used for building uplighting.
- ✓ G. Low level decorative lighting is required at the Pavilion terrace. A minimum of five fixtures are required.
- ✓ H. Exterior lighting must be controlled by a photocell with a manual override switch, by time clock or by building automation system - located in the back of house area. The control system must switch all lights on and off simultaneously.
- I. Refer to Section 2514.08 for minimum light level requirements.
- ✓ J. Parking Lighting

EXTERIOR LIGHTING CONT.

- ✓ 1. The parking area must be illuminated.
- ✓ 2. Parking lot and driveway lighting must be pole-mounted, high energy efficient and long life based upon fluorescent, metal halide, or SON (high pressure sodium) lamps. Other technology will be considered.
- ✓ 20' pole. 3. Maximum pole height is 30'-0" / 9.0 m. Cut off shields or similar devices must be used to prevent glare and annoyance.
- ✓ 4. Provide protective barriers for light fixtures that are subject to vehicular damage.
- K. Not applicable to this Brand
- L. Provide exterior outlets around the building perimeter at 200'-0" / 61 m intervals. Outlets must be waterproof and GFI/RCD protected.
- M. Provide all lighting and power circuits with GFCI/ELCB ground fault protection.

2502.00 Lobby Area

Refer to Sections 2514.00, Technical Criteria, and 2515.00, Furnishings, Fixtures, and Equipment, for requirements applicable to this Section.

2502.01 Vestibule

- A. A minimum 12'-0" / 3.66 m deep vestibule is required at the entrance to the lobby. Doors must be automatic sliding with a breakaway feature and provide approximately a 6'-0" / 1.8 m opening.
- B. Revolving doors are allowed. They must be a minimum 10'-0" / 3 m diameter. Doors must be able to be locked.
- C. Not applicable to this Brand
- D. When automatic revolving doors are provided, a single 42" / 1.07 m door must be provided directly adjacent to the revolving door.
- E. Any deadbolts on the doors must be disengaged.
- F. When a fixed post is not provided at the primary entrance of hotels, provide magnetic locks, intercom with buzzer and card key access that will lock entrance doors during off hours. Provide remote release at front desk. Primary entrance must be within line of sight of front desk or else a security camera must be provided.
- G. Not applicable to this Brand
- H. Not applicable to this Brand
- I. Finish Options
 - 1. Floor
 - a. Porcelain tile
 - 1. The pavilion tile shape and style must comply with the Brand Style Guide.
 - b. Natural stone
 - c. Not applicable to this Brand

2500 Design & Construction

| Area | Foot Candles | Lux |
|-------------------------------|--------------|-----|
| Surface Parking Areas | | |
| Drive Entrances/Porte Cochere | 10 | 100 |
| Drive Lanes | 2 | 20 |
| Stalls | 2 | 20 |

HILTON DESIGN STANDARD

| Area | Foot Candles | Lux |
|---------------------------|--------------|-----|
| Parking Structures | | |
| Entrances | 10 | 100 |
| Drive Lanes | 5 | 50 |
| Parking Stalls | 10 | 100 |

| Area | Foot Candles | Lux |
|---|--------------|-----|
| Guest Areas | | |
| Primary Entrance | 20 | 200 |
| Lobby | 20 | 200 |
| Service Desks (Registration, etc) | 30 | 300 |
| Guest Circulation | 10 | 100 |
| Guestroom Corridor at Guestroom Entrances | 15 | 150 |
| Restrooms | 20 | 200 |
| Restrooms (countertop) | 30 | 300 |
| Exit Stairs | 20 | 200 |

| Area | Foot Candles | Lux |
|----------------------------------|--------------|-----|
| Food and Beverage Outlets | | |
| Dining Area | 20 | 200 |
| Serving Counter | 50 | 500 |

| Area | Foot Candles | Lux |
|-------------------------------------|--------------|-----|
| Commercial Facilities | | |
| Sundries/Gift Shop (36"/900 mm AFF) | 30 | 300 |
| Business Center (Countertop) | 50 | 500 |
| Guest Laundry | 30 | 300 |
| Vending Room | 30 | 300 |

REVIEW OF DOCUMENTS

HILTON
GARDEN INN
OLYMPIA, WA.

PLAN
SITE LIGHTING

DocId: 34261756

REVISIONS:

DATE: 01-24-2014
NOT FOR CONSTRUCTION
PROJECT No. 213-115

LEGEND

- AL1 - 20' POLE LIGHT.
- AL2 - 20' POLE LIGHT
- AL3 - BALLPOLE LIGHT
- AL4 - WALL WASHER

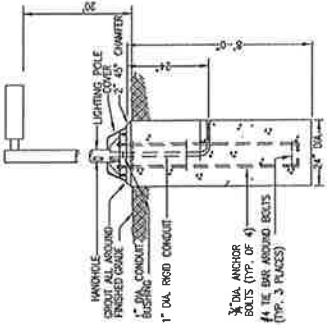
CONSTRUCTION NOTES

① COORDINATE HOME-RUN DESTINATION WITH HOTEL ELECTRICAL DESIGN.

1 ELECTRICAL SITE PLAN
SCALE 1"=30'-0"

| SYMBOL | DESCRIPTION | ELECTRICAL LEGEND |
|--------|--|-----------------------------|
| | | LIGHTING |
| | SINGLE POLE PARKING LOT SINGLE HEAD LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS) | |
| | WALKWAY BOLLARD LIGHT FIXTURE | |
| | | EQUIPMENT AND WIRING |
| | GROUNDING CONDUIT, HOUSTUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS | |
| | RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB | |
| | MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE | |
| | GROUNDING CONDUCTOR | |
| | | WIRECELLAROUND |
| | CONSTRUCTION NOTE | |

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|---|----------------------|-------|----------|----------|---|
| SYMBOL | FIXTURE DESCRIPTION | MANUFACTURER/MODEL # | LAMPS | V - VOLT | W - WATT | INCLUDING 1 REMAINS |
| A1 | SINGLE HEAD POLE TOP AREA LIGHT FIXTURE WITH TYPE 1 DISTRIBUTION | 100-800-4-000-0000 | LED | 120V | 140 W | 100-800-4-000-0000 140 W COMPACT FLUORESCENT WITH ADJUSTABLE ARM TO ADJUSTING |
| A2 | SINGLE HEAD POLE TOP AREA LIGHT FIXTURE WITH TYPE 2 DISTRIBUTION | 100-800-4-000-0000 | LED | 120V | 140 W | 100-800-4-000-0000 140 W COMPACT FLUORESCENT WITH ADJUSTABLE ARM TO ADJUSTING |
| A3 | LED BEACON WITH INTERNAL DOWNLIGHT | 100-800-4-000-0000 | LED | 120V | 140 W | 100-800-4-000-0000 140 W COMPACT FLUORESCENT WITH ADJUSTABLE ARM TO ADJUSTING |



② POLE/BASE DETAIL
NOT TO SCALE

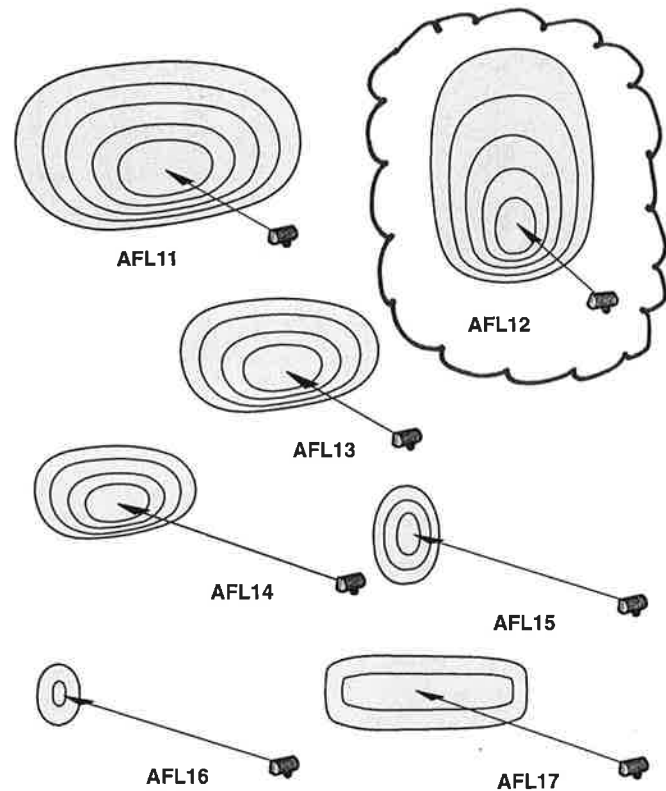
AFL10

IN GROUND - BUILDING FLOOD LIGHT
'KIM AFL 12'

Important Features

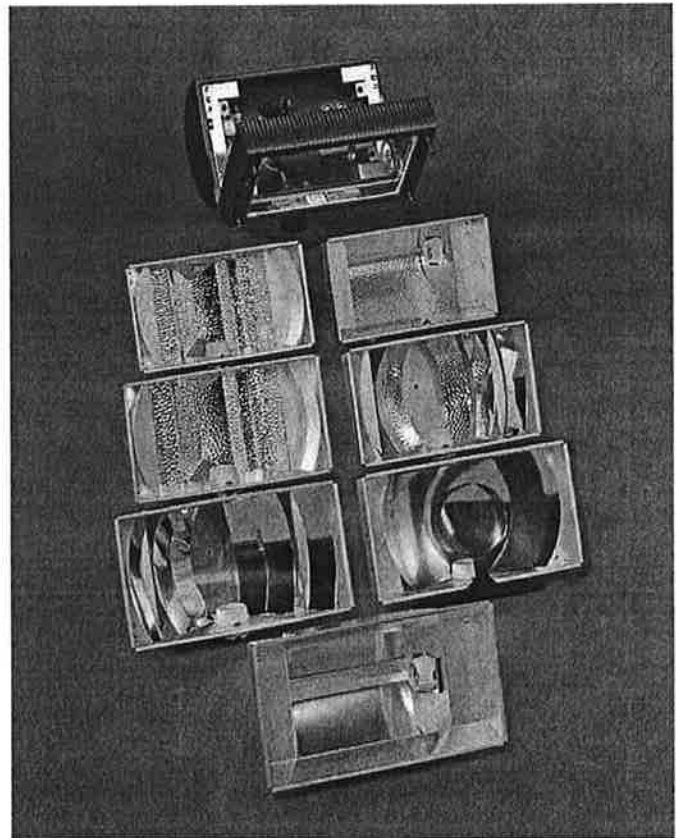
Seven Beam Patterns

The nature of floodlighting mandates versatility. The tremendous variety of surfaces and objects to be illuminated is further complicated by variables like fixture location and distance. The **AFL10** Series satisfies this need for flexibility: Seven available beam patterns can be used individually or in combinations to illuminate any object from distances of 3' to 100' - from the **AFL11** Wide Flood to the laser-like accuracy of the **AFL16** Narrow Spot reflector. The **AFL12** Vertical Flood has a unique optical design that is ideal for lighting both vertical and horizontal surfaces with very low brightness above the main beam. All seven beam patterns are the result of precision Kim reflector systems that generate high efficiencies and outstanding uniformity of illumination. See pages 38-39 for beam properties and application guidelines.



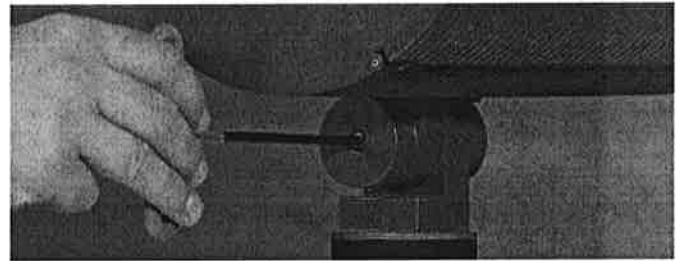
Die-Cast Housing with Interchangeable Optics

The **AFL10** Series housing and door frame are precision die-castings with integral cooling ribs that dissipate heat allowing the electrical components to operate well below their allowable limits. A single housing will accept any of the seven optical systems which are easily interchangeable on the job. Because floodlighting is as much art as it is science - final adjustments to the lighting effect may occasionally require changes of the beam pattern. To accomplish this, the door frame is opened and removed with slip hinges allowing easy access to the reflector module. Each reflector module is a one-piece assembly held in place by four pressure fit retainers and easily removed without tools for access to the ballast compartment. Changing beam patterns is a simple task, and provides the **AFL10** Series with flexibility for fine-tuning projects on the jobsite.



Standard Swivel with 1/2" NPSM Mount

The **AFL10** standard swivel is a complement to the housing design. The swivel is precision die-cast with concealed internal locking teeth. Locking adjustments are at 5° intervals. Adjustments are made by loosening the recessed allen head screw on the swivel. For added strength at the 1/2" NPSM mount, the aluminum swivel transitions to a heavy stainless steel nipple.

**Optional Heavy Duty Swivel**

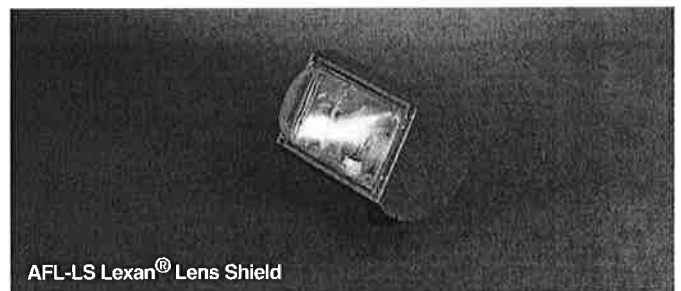
Specifically designed for installations where the fixture is mounted close to the ground or susceptible to vandalism. The Heavy Duty Swivel is constructed of heavy cast low copper aluminum with locking teeth providing adjustability in 5° increments and a full 360° horizontal rotation. The swivel mounts directly to a 2" pipe-size tenon, with heavy duty 3/8" stainless steel set screws provided to firmly lock the fixture in place. See page 46 for details.

**Vandal Protection**

An optional Lexan® vandal resistant lens shield is available for applications where vandalism is anticipated.

NOTE: The lens shield is made from an advanced polymer, Lexan® Resin from GE Advanced Materials. Lexan® dramatically reduces lens yellowing and becomes stable within the first 100 hours of operation. Lexan® offers significantly greater retained impact and vandal resistance during the life of the lens.

CAUTION: Use only when vandalism is anticipated.



AFL-LS Lexan® Lens Shield

Optical Control

The **AFL10** Series has a variety of optical accessories to control glare and increase the visual effectiveness of the lighting scheme. Shielding devices are carefully engineered to prevent shadows and preserve beam efficiency while reducing undesirable transient brightness. **Barn Doors** are a familiar accessory that allow for field-adjustable glare shielding. The **Fixed Hood** is a moderate shielding device and the **Full Shield** is a complete shielding device. Both are ideally suited for applications close to walkways, driveways, or roadways. The **Grid Louver** is engineered to maximize beam efficiency while minimizing glare and shadows from the internal vanes. The **GL4** louver is available for use with the **AFL15** and **AFL16**. The **Lexan® Lens Shield** is available for applications where vandalism is anticipated. The **Color Filter Assembly** is designed to be used alone or in conjunction with the **Barn Doors**, **Fixed Hood**, or **Full Shield**. Dynamic floodlighting effects are possible by utilizing any of the color filters specifically engineered for use in high temperature floodlighting applications. See page 47 for details.



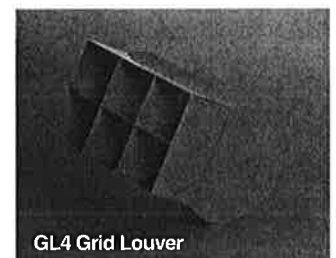
BD Barn Doors



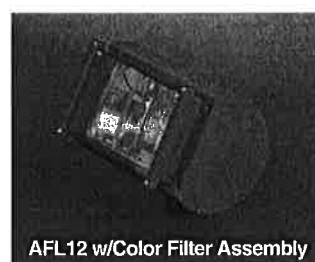
FH Fixed Hood



FS Full Shield



GL4 Grid Louver



AFL12 w/Color Filter Assembly

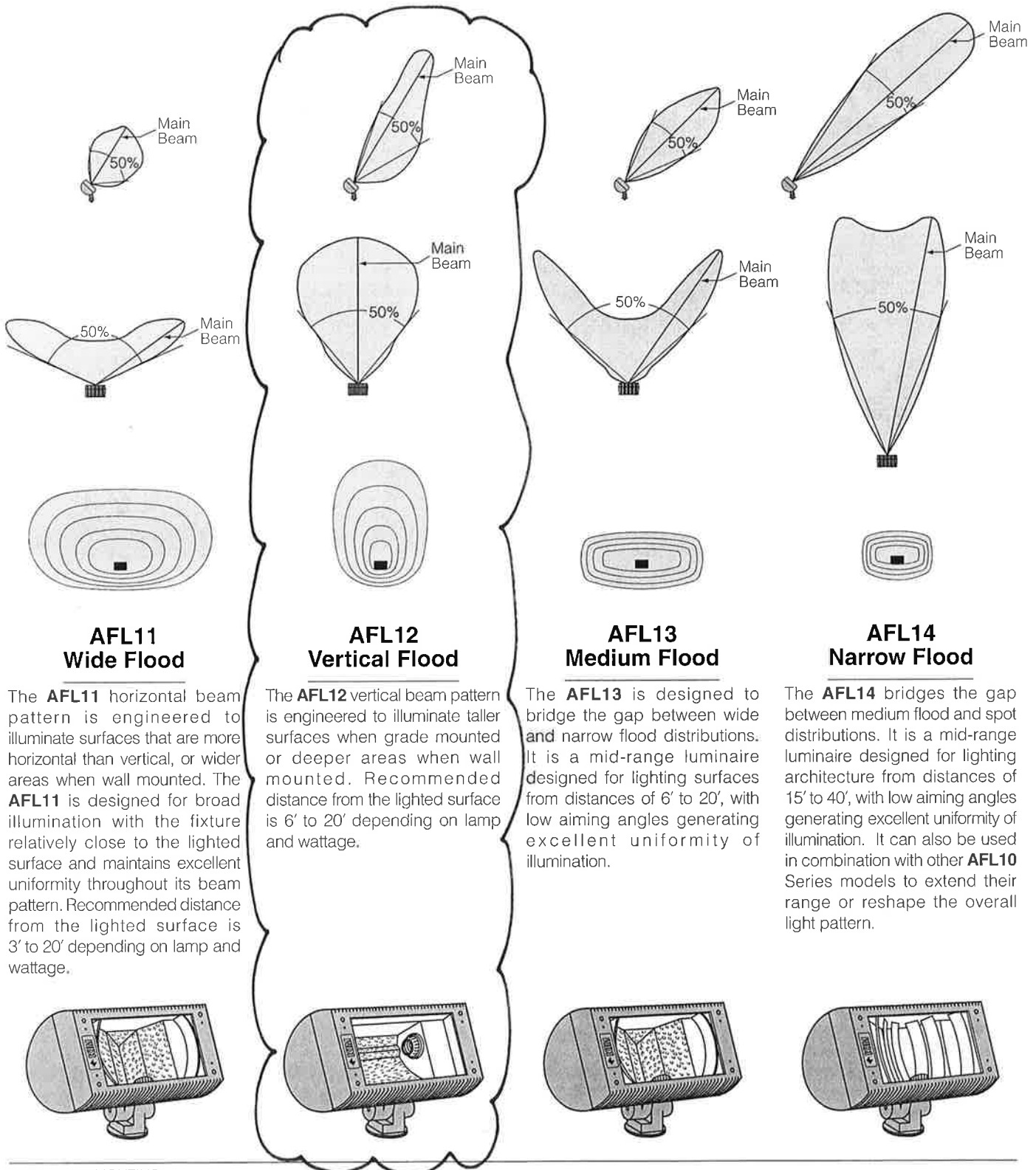


Color Filters

AFL10

Beam Properties

These illustrations are representations of the beam spreads produced by each optical system. They are intended to help you visualize the performance differences between each model without having to analyze photometric charts. **AFL11** through **AFL15**, and the **AFL17** beam patterns are shown in identical scale. The **AFL16** beam pattern is shown at ½ scale due to page constrictions.



AFL11
Wide Flood

The **AFL11** horizontal beam pattern is engineered to illuminate surfaces that are more horizontal than vertical, or wider areas when wall mounted. The **AFL11** is designed for broad illumination with the fixture relatively close to the lighted surface and maintains excellent uniformity throughout its beam pattern. Recommended distance from the lighted surface is 3' to 20' depending on lamp and wattage.

AFL12
Vertical Flood

The **AFL12** vertical beam pattern is engineered to illuminate taller surfaces when grade mounted or deeper areas when wall mounted. Recommended distance from the lighted surface is 6' to 20' depending on lamp and wattage.

AFL13
Medium Flood

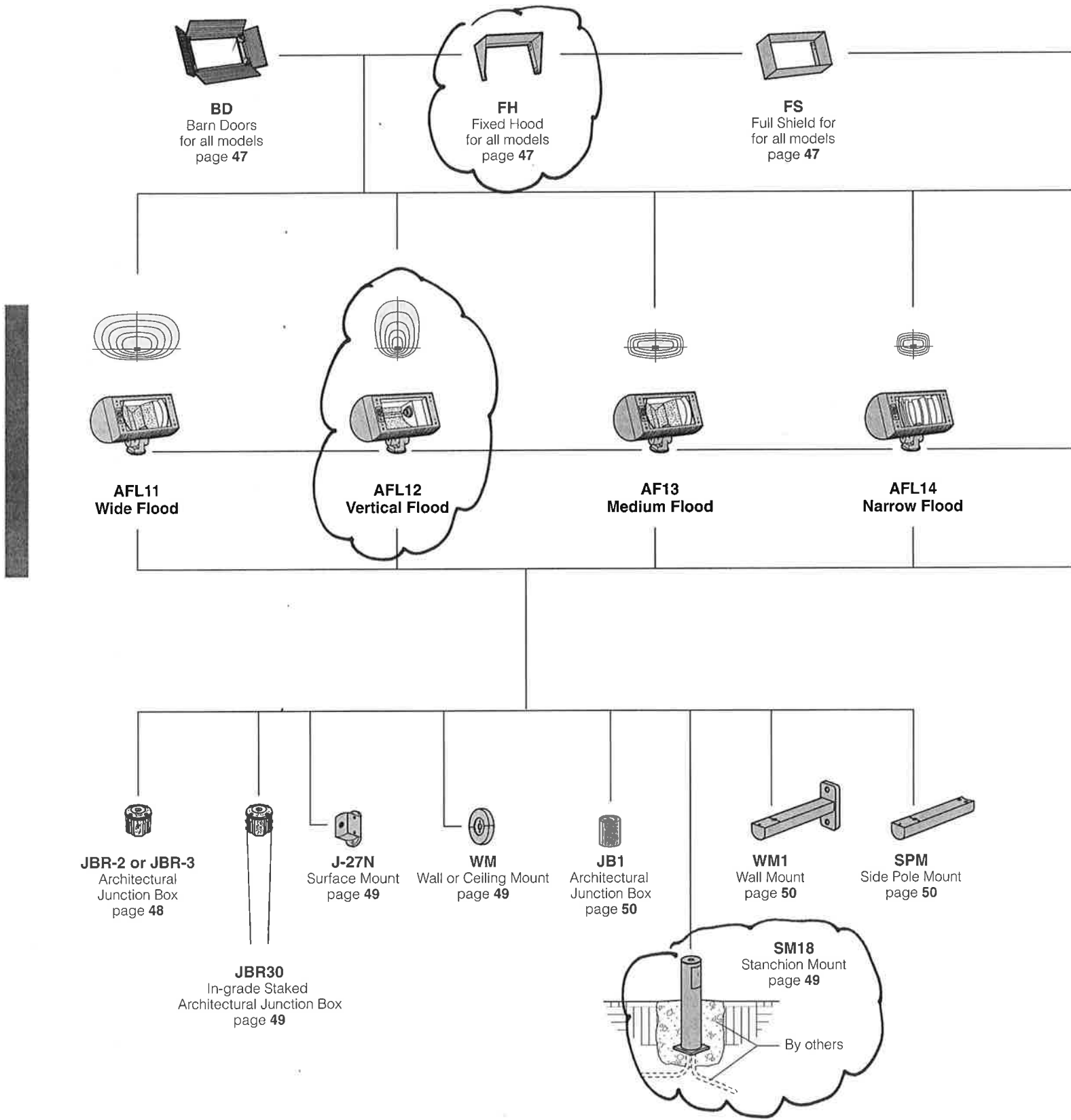
The **AFL13** is designed to bridge the gap between wide and narrow flood distributions. It is a mid-range luminaire designed for lighting surfaces from distances of 6' to 20', with low aiming angles generating excellent uniformity of illumination.

AFL14
Narrow Flood

The **AFL14** bridges the gap between medium flood and spot distributions. It is a mid-range luminaire designed for lighting architecture from distances of 15' to 40', with low aiming angles generating excellent uniformity of illumination. It can also be used in combination with other **AFL10** Series models to extend their range or reshape the overall light pattern.

AFL10

Product Structure



AFL10

Ordering Information

Medium Base
70 to 175 Watt

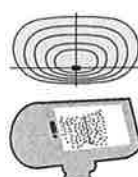
Ordering Example:

| Fixture | Electrical Module | Finish | Optional Heavy Duty Swivel | Optional Photocell | Fixture Options | Mounting Options |
|---|-------------------|-------------|----------------------------|--------------------|---|------------------|
| AFL11 | /150HPS277 | / WH | / HPS | / A-30 | BD/WH | SM18/WH |
| 1 | 2 | 3 | 4 | 5 | 6-11 | 12-28 |
| Standard Fixture and Options Ordered Assembled with Fixture | | | | | Options Ordered Separately from Fixture | |

1 Fixture:

Cat. No. designates **AFL10** fixture and beam pattern.

Single fixture EPA with standard swivel:

0.7 (45° tilt)
1.0 (Face on)Beam Pattern:
Cat. No.:Wide Flood
AFL11Vertical Flood
AFL12Medium Flood
AFL13Narrow Flood
AFL14Spot
AFL15Narrow Spot
AFL16Horizontal Spot
AFL17Beam Pattern:
Cat. No.:

2 Electrical Module:

HPS = High Pressure Sodium**PMH** = Pulse Start
Metal Halide

See lamp and electrical data on pages 96-98 for ballast types and characteristics.

| Lamp Watts | Lamp Type | Line Volts |
|------------|-----------|------------|
| 150 | HPS | 277 |

| | | | | | |
|----------|-----------|-----------|----------|-----------|-----------|
| 70PMH120 | 100PMH120 | 150PMH120 | 70HPS120 | 100HPS120 | 150HPS120 |
| 70PMH208 | 100PMH208 | 150PMH208 | 70HPS208 | 100HPS208 | 150HPS208 |
| 70PMH240 | 100PMH240 | 150PMH240 | 70HPS240 | 100HPS240 | 150HPS240 |
| 70PMH277 | 100PMH277 | 150PMH277 | 70HPS277 | 100HPS277 | 150HPS277 |
| 70PMH347 | 100PMH347 | 150PMH347 | 70HPS347 | 100HPS347 | 150HPS347 |
| 70PMH480 | 100PMH480 | 150PMH480 | 70HPS480 | 100HPS480 | 150HPS480 |

NOTE: G-12 socket available for T-6 bi-pin 70 and 150 watt Pulse Start Metal Halide lamps. Consult factory.**NOTE:** Due to the Energy Independence and Security Act (EISA) of 2007, Kim Lighting can no longer supply probe start metal halide ballasts with its luminaires, effective January 1, 2009. Contact Kim Lighting for availability of replacement ballasts for warranty service claims.(Visit www.aboutlightingcontrols.org or the Library of Congress website for more details).**KimNOW! Available Configurations:****KN-AFL11/150PMH/HD/DB*,**
KN-AFL12/150PMH/HD/DB*,
KN-AFL15/150PMH/HD/DB***Accessories:****KN-BD/DB, KN-FH/DB, KN-AFL-LS, KN-JBI/DB,**
KN-SM2/DB, KN-SMT/DB

*Multi-tap ballast (120, 208, 240, or 277 volts)

3 Finish:

Super TGIC powder coat paint over Titanated Zirconium conversion coating.

| | | | | | | |
|-----------|-------|-------------|------------|-----------------|-------|---------------|
| Color: | Black | Dark Bronze | Light Gray | Platinum Silver | White | Custom Colors |
| Cat. No.: | BL | DB | LG | PS | WH | CC |

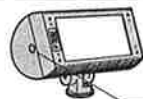
Consult representative for custom colors.

4 Optional Heavy Duty Swivel:

Single fixture EPA with heavy duty swivel:
0.8 (45° tilt)
1.1 (Face on)Cat. No.: **HDS**
Finished to match fixture.
Heavy Duty Swivel

Recommended for vandal resistant requirements. Heavy cast low copper (<0.6% Cu) aluminum with locking teeth, aiming range of 200° vertical in 5° increments and 360° horizontal rotation. The swivel mounts directly to a 2" pipe-size tenon, with heavy duty 3/8" stainless steel set point screws provided to firmly lock the fixture in place.

5 Optional Photocell:



| | | | | | | |
|-------------|------|------|------|------|------|------|
| Line Volts: | 120V | 208V | 240V | 277V | 480V | 347V |
| Cat. No.: | A-30 | A-31 | A-32 | A-33 | A-34 | A-35 |

CAUTION: Use only in locations where adjacent lighting will not affect operation of photocell.

6 Optional Barn Doors:

Cat. No.: **BD**
Specify finish:
Example: **BD/BL**

Extruded aluminum doors with anti-reflection baffles. Each door is hinged to a cast low copper (<0.6% Cu) aluminum frame, and locks by set screws. Doors are individually removable. Barn Door assembly mounts to predrilled door frame holes.

CAUTION: Not recommended for ground mounted fixtures in vandal prone areas.

7 Optional Fixed Hood:

Cat. No.: **FH**
Specify finish:
Example: **FH/BL**

Formed 1/8" thick aluminum. Mounts to predrilled door frame holes. Can be mounted along the top or bottom of the fixture to shield the lamp and lens from view.

AFL10

Luminaire Specifications

Dimensions

AFL10 Models

70 to 150 watt H.I.D.

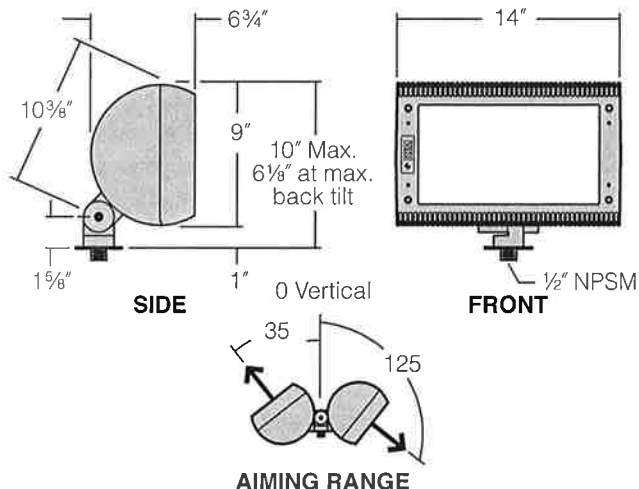
Medium Base Lamps

with STANDARD SWIVEL

EPA: 0.7 (45 tilt)

1.0 (Face on)

Maximum weight: 24 lb



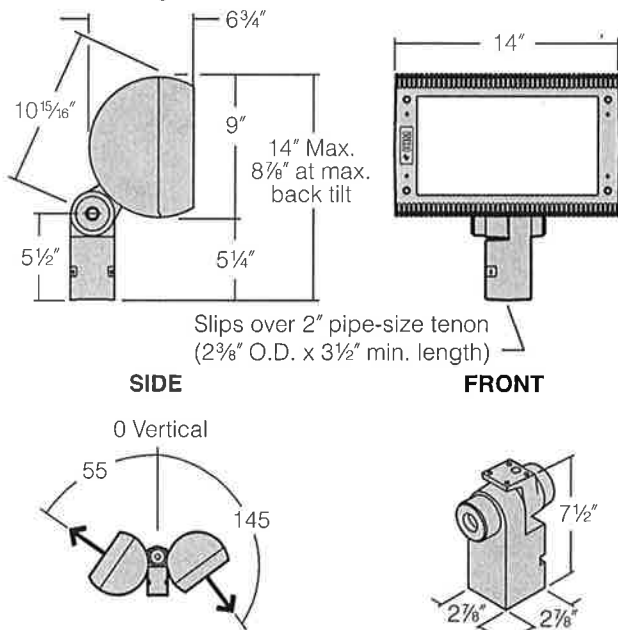
May be limited by selected mounting option as shown on pages 48-51

with OPTIONAL HEAVY DUTY SWIVEL

EPA: 0.8 (45 tilt)

1.1 (Face on)

Maximum weight: 25 lb



Slips over 2" pipe-size tenon
(2 3/8" O.D. x 3 1/2" min. length)

May be limited by selected mounting option as shown on pages 51-52

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum in a cylindrical shape with integral cooling fins over the entire length, and 1/8" minimum wall thickness. One-piece silicone gasket between housing and door frame concealed when fixture is closed. Concealed integral cast slip hinges with stainless steel pins.

Door Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum with integral cooling fins, 1/8" minimum wall thickness, mates with housing to create a continuous cylindrical shape. Concealed integral cast slip hinges allow removal without tools. Stop-arm provided to limit door frame opening. 3/16" thick clear tempered glass lens is sealed to the lens frame by a one-piece silicone gasket. Door frame secures to housing by four stainless steel recessed captive allen-head screws. Four tapped and plugged holes provided for attachment of options.

Standard Swivel: Die-cast aluminum with integral locking teeth providing 5° adjustment intervals. Stainless steel allen-head locking screw and 1/2" NPSM. Clear anodized prior to chromate conversion coating for added corrosion resistance.

Reflector Assemblies: Interchangeable in all seven AFL10 models. Specular Alzak® aluminum optical components mounted to aluminum frame. Reflector assembly snaps into fixture housing with spring clips. Sockets are 4KV porcelain medium base. (G-12 socket available for T-6 bi-pin 70 and 150 watt Metal Halide lamps. Consult factory.)

Electrical Components: All electrical components are UL and CSA recognized with leads extending out of the swivel. High power factor ballast rated -40°F starting for HPS and -20°F for MH lamp modes. Optional photocell mounted with sensor on side of housing. See lamp and electrical data on pages 96-98 for ballast types and characteristics.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a Titanated Zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

Listings and Ratings

| | |
|-------------|----|
| UL cUL 1598 | — |
| IP67 Rated | CE |

Optional Heavy Duty Swivel (HDS): Ordered assembled with fixture.

Cast low copper (<0.6% Cu) aluminum with locking teeth providing 5° adjustment intervals. 3/8" stainless steel locking bolt. Two 3/8" stainless steel set point screws secure swivel to any 2" pipe-size tenon (2 3/8" O.D. x 3 1/2" min. length). Clear anodized prior to chromate conversion coating for added corrosion resistance.

CAUTION: Recommended for vandal resistant requirements.

Optional Photocell (A30 - A35): Ordered assembled with fixture. Factory installed with flush sensor on side of housing. Select photocell with same line volts as fixture.

CAUTION: Use only in locations where adjacent lighting will not affect operation of photocell.

Ordered separately from fixture.
See pages 42-45 for complete ordering information.

Fixture Option Specifications

Barn Doors (BD): Extruded aluminum doors with anti-reflection baffles. Each door is hinged to a cast low copper (<0.6% Cu) aluminum frame, and locks by set screws. Doors are individually removable. Barn Door assembly mounts to predrilled door frame holes.

CAUTION: Not recommended for ground mounted fixtures in vandal prone areas.

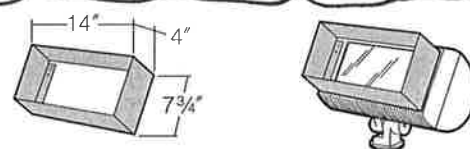


Fixed Hood (FH): Formed 1/16" thick aluminum. Mounts to predrilled door frame holes. Can be mounted along the top or bottom of the fixture to shield the lamp and lens from view.



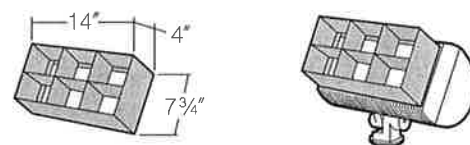
Full Shield (FS): Formed 1/16" thick aluminum. Mounts to predrilled door frame holes.

CAUTION: Do not use full shield in locations where leaves and trash can collect inside shield.



Grid Louver for AFL15 and AFL16 (GL4): Formed 1/16" thick aluminum. Mounts to predrilled door frame holes. Provides glare control for AFL15 and AFL16 Spots while maintaining beam efficiency and uniformity.

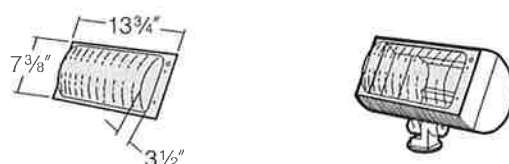
NOTE: For use with AFL15 and AFL16 only.



Lexan® Lens Shield (AFL-LS): 3/16" thick, clear convex, vacuum formed, advanced polymer (Lexan® from GE Advanced Materials) lens shield with gasket. Mounts over lens to predrilled door frame holes and may be used with BD Barn Door, FH Fixed Hood, or FS Full Shield option.

CAUTION: Use only when vandalism is anticipated.






NOTE: Not for use with GL4 Louver or CFA1 color filter options.



Color Filter Assembly (CFA1-XX): Heavy wall aluminum extrusion with anti-reflection baffles and vertical channels that hold the color filter 2" away from the fixture lens. Quick change-out of the color filter is possible by the removal of two channel screws. Support mounts to predrilled holes in fixture door frame. May be used with BD Barn Door, FH Fixed Hood, or FS Full Shield option.

Color Filter Assembly includes color filter.



| Sample | Color ¹ | XX Filter # ² | Description |
|---|--------------------|--------------------------|--|
|  | Deep Straw | 15 | Warms metal halide color. Deepens high pressure sodium color to yellow/orange. |
|  | Rose Tint | 05 | Warms metal halide color. Deepens high pressure sodium color to pink/orange. |
|  | Medium Red | 27 | Deep color accent. Best used with high pressure sodium lamps. NOTE: Very low output with metal halide lamps. |
|  | Brilliant Blue | 69 | Deep color accent. Best used with metal halide lamps. NOTE: Not recommended for high pressure sodium lamps. |
|  | Primary Green | 91 | Deep color accent. Blue shift with metal halide lamps. Yellow shift with high pressure sodium lamps. |

NOTE: Color samples shown for reference only and will not represent actual illumination color rendered by H.I.D. lamps.

¹Exact color output is highly dependent on lamp used, (i.e. HPS vs. MH, specific lamp color temperature and other factors).

²XX Color filter number corresponds with Roscolux color filter numbers.

Ordered separately from fixture.
See pages **42-45** for complete ordering information.

Mounting Option Specifications

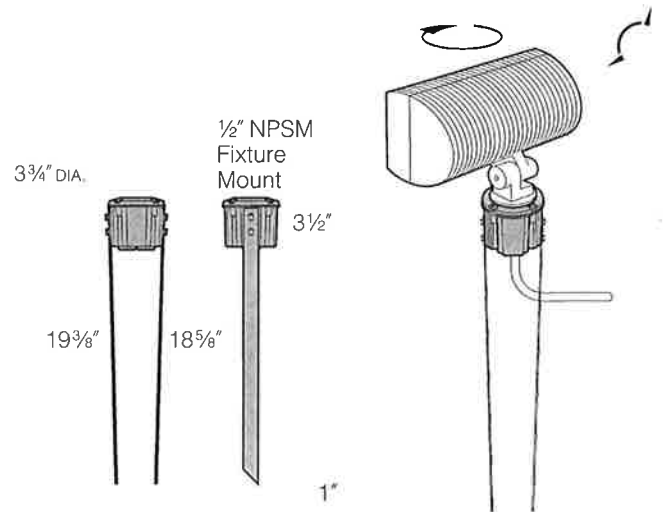
Brass In-grade Staked Architectural Junction Box (JBR30): Die-cast brass with ½" NPSM fixture mount and die-cast cover. Internal set screw provided for locking position. 21 cu in. internal volume.

Standard Swivel Mount

Application Notes

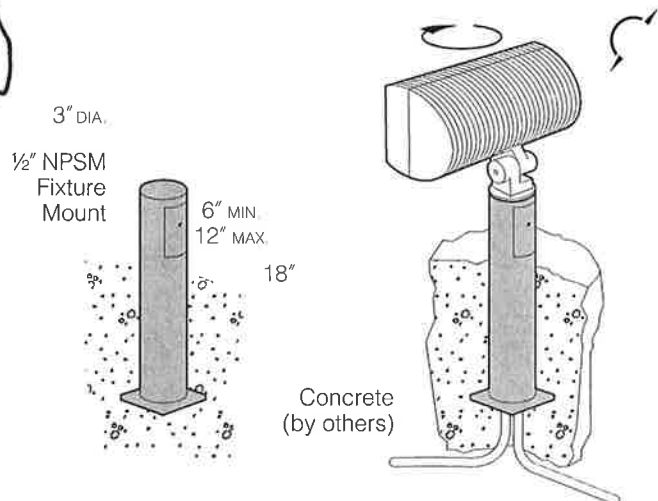
- Creates a flush-mounted appearance.
- May be cast in concrete for increased stability.

CAUTION: Fixture stem and swivel must not contact soil or standing water. Provide drainage away from Junction Box.



Stanchion Mount (SM18): 3" O.D. by .188" wall cast low copper (<0.6% Cu) aluminum with ½" NPSM fixture mount and hand hole with flush cover. Internal set screw fixture lock accessible through hand hole. Internal ground lug supplied with installed lead.

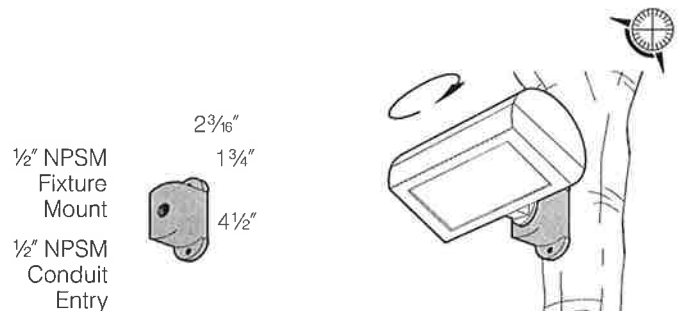
Standard Swivel Mount



Surface Mount (J-27N): Cast low copper (<0.6% Cu) aluminum with mounting ears for wood screw attachment to tree or wood structure. 5.5 cu in. splice compartment with gasketed cover. ½" NPSM fixture mount and ½" NPSM conduit or cord seal entry.

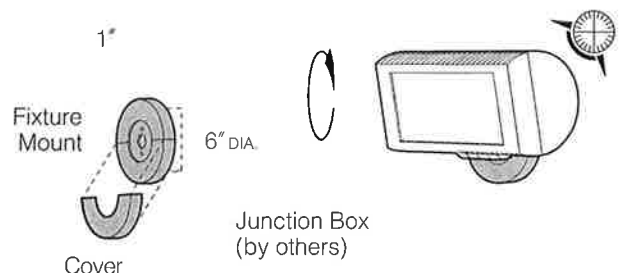
Standard Swivel Mount

NOTE: Surface mount can be connected to conduit or outdoor cord with a waterproof cord seal (by others).



Wall or Ceiling Mount (WM): Electro zinc steel mounting plate adapts to standard 4" square or octagonal Junction Boxes. Fixture mounts to cast aluminum upper cover which attaches to mounting plate. Lower cover half provides splice access. Dielectric sealing compound provided for wall interface.

Standard Swivel Mount



AFL11 Wide Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ¹ | I.E.S. Type | Maximum Candlepower | Field Angle (10% of max.) | Beam Angle ² (50% of max.) | Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|--------------------------|---------------------------|---------------------------------------|----------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 70HPS ED-17 clear medium base | 70 | 6,300 | 7H x 7V | 1,620 (47.5°H x -15.0°V) | 160°H x 138.5°V | 139.5°H x 94.5°V | KL00548 | 119 |
| 100HPS ED-17 clear medium base | 100 | 9,500 | 7H x 7V | 2,443 (47.5°H x -5.0°V) | 160°H x 138.5°V | 139.5°H x 94.5°V | KL00509 | 119 |
| 150HPS ED-17 clear medium base | 150 | 16,000 | 7H x 6V | 4,444 (47.5°H x -13.0°V) | 148.8°H x 126°V | 135.3°H x 80.3°V | KL00544 | 119 |
| PULSE START METAL HALIDE | | | | | | | | |
| 70PMH ED-17 clear medium base | 70 | 6,200 | 7H x 6V | 1,887 (47.5°H x -15.0°V) | 147.9°H x 125.5°V | 131.5°H x 73.0°V | KL00546 | 119 |
| 100PMH ED-17 clear medium base | 100 | 9,300 | 7H x 6V | 2,830 (47.5°H x -15.0°V) | 147.9°H x 125.5°V | 131.5°H x 73.0°V | KL00543 | 119 |
| 150PMH ED-17 clear medium base | 150 | 14,000 | 7H x 6V | 4,285 (47.5°H x -13.0°V) | 148.5°H x 127.0°V | 133.5°H x 79.6°V | KL00545 | 119 |

¹All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

²Beam Angle: Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

AFL12 Vertical Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ¹ | I.E.S. Type | Maximum Candlepower | Field Angle ⁴ (10% of max.) | Beam Angle ⁵ (50% of max.) | Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|------------------------|--|---------------------------------------|----------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 70HPS ED-17 clear medium base | 70 | 6,300 | 6H x 5V | 3,182 (3.0°H x 11.0°V) | 121.9°H x 96.2°V | 77.3°H x 39.1°V | KL00491 | 125 |
| 100HPS ED-17 clear medium base | 100 | 9,500 | 6H x 5V | 4,799 (3.0°H x 11.0°V) | 121.9°H x 96.2°V | 77.3°H x 39.0°V | KL00403 | 125 |
| 150HPS ED-17 clear medium base | 150 | 16,000 | 6H x 5V | 7,586 (3.0°H x 13.0°V) | 123.3°H x 98.9°V | 79.2°H x 59.4°V | KL00515 | 125 |
| PULSE START METAL HALIDE | | | | | | | | |
| * 70PMH ED-17 clear medium base | 70 | 5,900 | 6H x 5V | 3,041 (1.0°H x 11.0°V) | 125.0°H x 99.2°V | 82.9°H x 70.3°V | KL00489 | 125 |
| 100PMH ED-17 clear medium base | 100 | 8,800 | 6H x 5V | 4,536 (1.0°H x 11.0°V) | 125.0°H x 99.2°V | 82.9°H x 70.3°V | KL00391 | 125 |
| 150PMH ED-17 clear medium base | 150 | 12,600 | 6H x 6V | 5,415 (3.0°H x 7.0°V) | 124.9°H x 100.8°V | 84.7°H x 76.0°V | KL00400 | 125 |

¹All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

⁴Field Angle: Horizontal and vertical field spreads interpolated due to no valid I.E.S. standard.

⁵Beam Angle: Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

AFL13 Medium Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ⁶ | I.E.S. Type | Maximum Candlepower | Field Angle (10% of max.) | Beam Angle ⁷ (50% of max.) | Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|--------------------------|---------------------------|---------------------------------------|----------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 70HPS ED-17 clear medium base | 70 | 6,300 | 7H x 6V | 1,854 (47.5°H x 13.0°V) | 148.4°H x 125.2°V | 133.9°H x 77.1°V | KL00554 | 131 |
| 100HPS ED-17 clear medium base | 100 | 9,500 | 7H x 6V | 2,795 (47.5°H x 13.0°V) | 148.3°H x 125.2°V | 133.9°H x 77.1°V | KL00508 | 131 |
| 150HPS ED-17 clear medium base | 150 | 16,000 | 7H x 6V | 7,384 (42.5°H x 0.0°V) | 145.3°H x 116.9°V | 111.7°H x 48.5°V | KL00369 | 131 |
| PULSE START METAL HALIDE | | | | | | | | |
| 70PMH ED-17 clear medium base | 70 | 6,200 | 7H x 6V | 1,941 (47.5°H x -15.0°V) | 148.1°H x 126.2°V | 132.2°H x 74.4°V | KL00552 | 131 |
| 100PMH ED-17 clear medium base | 100 | 9,300 | 7H x 6V | 2,911 (47.5°H x -15.0°V) | 148.1°H x 126.1°V | 132.2°H x 74.4°V | KL00417 | 131 |
| 150PMH ED-17 clear medium base | 150 | 14,000 | 7H x 6V | 3,965 (47.5°H x -11.0°V) | 148.2°H x 127.1°V | 131.5°H x 79.5°V | KL00551 | 131 |

⁶All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

⁷Beam Angle: Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

WARNING: All fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury. Lamps by others.

PARKING LOT POLE LIGHT

Attachment 5

| | | | | |
|-----------------------------------|---------------|-------|-----------|-----------------------|
| CIMARRON LED <div>NEW</div> | Cat.# | | Approvals | SPAULDING LIGHTING |
| | Job | Type | | |
| | OLYMPIA - HGT | ALI 2 | | |

SPECIFICATIONS

Construction:

- Stylish vertically finned die-cast solid top housing for maximum heat dissipation; Stops collection of unsightly debris from gathering on top of the housing
- Rugged lower die-cast aluminum heat sink accelerates thermal management and optimizes PCB and optical performance
- Separate optical and electrical compartment for optimum component operation
- One piece die cut silicone gasket ensures weather proof seal around each individual LED for IP65 rating
- Backlight Control (BC) option available for 85% spill light reduction, doesn't change fixture appearance or EPA, recommended for Type III and Type IV distributions
- Stamped bezel provides mechanical compression to seal the optical assembly
- Complements the Hubbell Southwest series of outdoor fixtures
- Weight - 45.0 pounds, EPA - 1.3 ft²
- Features exclusive wiHUBB technology
 - Wireless system for On/Off and 0-10VDC full range dimming control
 - Programmable autonomous operation
- Drivers have greater than 90% power factor and less than 10% THD
- Optional continuous dimming to 10% or dual circuitry available
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- 1050 mA driver available with 90L configuration for increased lumen output
- LED electrical assembly, including PR devices, consumes no power in the 'off' state
- Surge protection of 10KA 8/20 µSec wave; clamping voltage of 320V & surge rating of 273J

Lumen maintenance:

- L90 at 60,000 hours (Projected per IESNA TM-21-11)

Installation:

- Two die-cast aluminum arm designs are available providing maximum design flexibility
- The decorative arm offers a sleek upswept look while the straight arm follows the housing's contoured lines for continuity of style
- Fixture ships with arm installed for ease of installation and mounts to #2 drill pattern
- Wall bracket, mast arm fitter and pole accessories are also available allowing easy mounting for virtually any application

Finish:

- TGIC thermoset polyester powder paint finish applied at nominal 2.5 mil thickness

Warranty:

Five year limited warranty (for more information visit: <http://www.hubbelloutdoor.com/resources/warranty/>)

Listings:

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations

- DLC listed • IDA approved • IP65

PRODUCT IMAGE(S)



90 LED 3/4 VIEW



30 LED

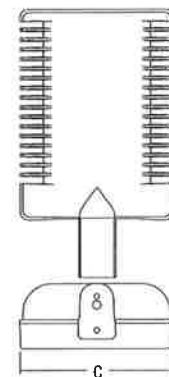
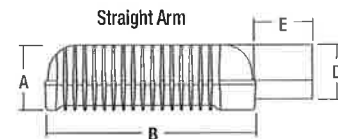
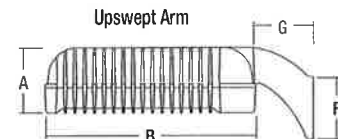


60 LED



90 LED

DIMENSIONS



| A | B | C | D | E | F | G |
|-----------------|------------------|--------------|-----------------|------------------|-----------------|-----------------|
| 6 3/4" 171mm | 21 3/4" 552mm | 16" 406mm | 6 5/8" 168mm | 6 5/16" 160mm | 5 5/8" 143mm | 6 1/8" 155mm |

CERTIFICATIONS/LISTINGS



ORDERING INFORMATION SEE NEXT PAGE

SPAULDING
LIGHTING

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CL1LED-SPEC 4/13

ORDERING INFORMATION ORDERING EXAMPLE: CL1-A-90LU-5K-3-DB-RPA3

| SERIES | NO. OF LEDS | VOLTAGE | CCT | DRIVE CURRENT | OPTIONS |
|---|---|--|--|---|---|
| CL1 Cimarron LED | 90L 90 High brightness LEDs ✓ 60L 60 High brightness LEDs 30L 30 High brightness LEDs | U ³ Universal 120V-277V, 50/60 Hz 1 ⁷ 120V 2 ⁷ 208V 3 ⁷ 240V 4 ⁷ 277V 5 480V, 60 Hz F 347V, 60 Hz E ⁴ 220V, 50 Hz | 3K 3000K ✓ 4K 4000K 5K 5000K AM Amber (590 nm available for "Turtle Friendly" applications (consult factory)) | Leave blank for 700mA (standard) 105 1050 mA (use with 90L only for higher lumen output) | ✓ BC ⁶ Backlight control BL ^{1,2,5} Bi-level control CD ² Continuous dimming WB Wall bracket RPA3 3" Round pole adapter RPA4 4" Round pole adapter RPA5 5" Round pole adapter RPA6 6" Round pole adapter F(X) ^{3,4} Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V, 5-480V, 6-347V) SSB Stainless steel LED bezel VG Vandal guard |
| MOUNTING ✓ A Arm mount construction (6" straight rigid arm included & acceptable for 90° configurations) AD Decorative arm mount const. (6" decorative upswept arm incl. & acceptable for 90° configurations) MAF Mast arm fitter for mounting to standard 2 3/8" mast arm bracket, includes 6" straight rigid arm | | | | | |
| DISTRIBUTION 2 Type II 3 Type III ✓ 4 Type IV 5M Type V Medium 5S Type V Short 5W Type V Wide | | | | | |
| COLOR DB Dark Bronze BL Black WH White GR Gray PS Platinum Silver RD Red (premium color) FG Forest Green (premium color) CC Custom Color | | | | | |
| CONTROL OPTIONS SCO Motion control, no light output, On/Off control SC30 Motion control, dimmed to 30% light output SC50 Motion control, dimmed to 50% light output SC70 Motion control, dimmed to 70% light output PR(X) ⁵ NEMA Photo cell receptacle (replace X with voltage: U=120-277, 5=480, 6=347) WIH ⁷ In-fixture wireless control module (120, 277, 347 & 480V) | | | | | |

Notes: 1 - For BL option 90L and 60L; N/A 347V & 480V • 2 - BL & CD cannot be combined • 3 - Fuse option not available with universal voltage
 4 - Select F3 fusing option for 220V • 5 - Photocell receptacle not available with BL option • 6 - Recommended for Type III and IV distributions only • 7 - Select only when using voltage specific option (F or WIH)

ENERGY SAVING DATA

| ENERGY DATA | |
|---------------------------|------|
| Power Factor | >.9 |
| Total Harmonic Distortion | <10% |

| LIGHT ENGINE | INPUT WATTS | | LUMENS DELIVERED | | | | | |
|--------------|-------------|-----------|------------------|--------|--------|---------|---------|---------|
| | 120V-277V | 347V-480V | TYPE 2 | TYPE 3 | TYPE 4 | TYPE 5M | TYPE 5S | TYPE 5W |
| 30L-5K | 70 | 87 | 6384 | 6164 | 6641 | 7108 | 6999 | 6619 |
| 60L-5K | 140 | 157 | 13300 | 12842 | 13125 | 13185 | 13675 | 12954 |
| 90L-5K | 210 | 227 | 19684 | 19006 | 19202 | 20592 | 19610 | 18973 |
| 90L-5K-105 | 336 | 363 | 26974 | 25351 | 26548 | 25793 | 27445 | 25195 |
| 30L-4K | 70 | 87 | 6089 | 6109 | 6104 | 6417 | 6439 | 6046 |
| 60L-4K | 140 | 157 | 11583 | 11468 | 12036 | 12036 | 12581 | 11807 |
| 90L-4K | 210 | 227 | 17143 | 16973 | 17648 | 18521 | 20220 | 17394 |
| 90L-4K-105 | 336 | 363 | 23896 | 23912 | 24199 | 24583 | 25357 | 23128 |
| 30L-3K | 70 | 87 | 4606 | 4668 | 4686 | 4858 | 4902 | 4601 |
| 60L-3K | 140 | 157 | 9013 | 9175 | 9216 | 9409 | 9461 | 8844 |
| 90L-3K | 210 | 227 | 13360 | 13601 | 13575 | 13923 | 14004 | 13902 |
| 90L-3K-105 | 336 | 363 | 17645 | 17612 | 17469 | 17950 | 18271 | 17330 |

ACCESSORIES SEE NEXT PAGE

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CL1LED-SPEC 4/13

ACCESSORIES

| Catalog Number | Description |
|--------------------------|--|
| CR-RPA3-XX ¹ | Round pole adapter for straight arm (3¼ - 3¾") * |
| CR-RPA4-XX ¹ | Round pole adapter for straight arm (3⅝ - 4½") |
| CR-RPA5-XX ¹ | Round pole adapter for straight arm (5") |
| CR-RPA6-XX ¹ | Round pole adapter for straight arm (6") |
| CRD-RPA2-XX ¹ | Round pole adapter for upswept arm (2¾ - 3⅝") |
| CRD-RPA3-XX ¹ | Round pole adapter for upswept arm (3¼ - 3¾") |
| CRD-RPA4-XX ¹ | Round pole adapter for upswept arm (3⅝ - 4½") |
| CRD-RPA5-XX ¹ | Round pole adapter for upswept arm (5") |
| CRD-RPA6-XX ¹ | Round pole adapter for upswept arm (6") |
| WB-CR-XX ¹ | Wall bracket |
| TPLB-XX ¹ | Twin parallel luminaire bracket |
| MAF-CL-XX ³ | Horizontal mast arm fitter for 2 3/8" OD arm. Mounts to standard 6" arm (ordered with fixture) |

1 Replace XX with color choice, eg.: DB for Dark Bronze

2 When ordering poles, specify Pole Drill Pattern #2

3 Fixture must include standard 6" arm

TENON TOP POLE BRACKET ACCESSORIES

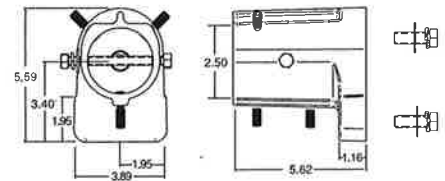
(2 3/8" OD tenon) (RSS version requires 4" round pole adapter)

| Catalog Number | Description |
|----------------------|---|
| SETA-XX ¹ | Square pole tenon adapter (4 at 90 degrees) |
| RETA-XX ¹ | Round pole tenon adapter (4 at 90 degrees) |
| TETA-XX ¹ | Hexagonal pole tenon adapter (3 at 120 degrees) |

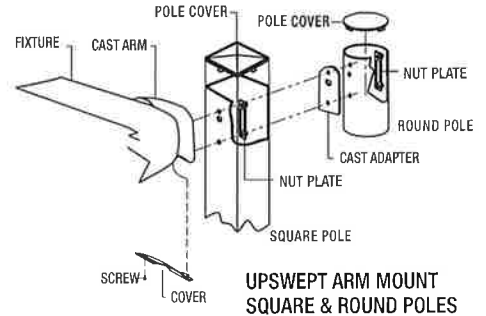
1 Replace XX with color choice, eg.: DB for Dark Bronze

PHOTOCONTROL EQUIPMENT

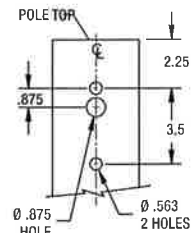
| Catalog Number | Description |
|----------------|---|
| PTL-1 | Photocontrol - twist-lock cell (120V) |
| PTL-8 | Photocontrol - twist-lock cell (120-277V) |
| PTL-5 | Photocontrol - twist-lock cell (480V) |
| PTL-6 | Photocontrol - twist-lock cell (347V) |
| PSC | Shorting cap - twist-lock |



MAF - HORIZONTAL MAST ARM FITTER



**UPSWEPT ARM MOUNT
SQUARE & ROUND POLES**



#2 DRILL PATTERN FOR POLES

LIGHTING FACTS

[illegible]

LED Lighting Facts

lighting facts®

a PowerLite USA, LLC

| | |
|---|-------------|
| Light Output (Lumens) | 6992 |
| Watts | 69.7 |
| Lumens per Watt (Efficacy) | 98 |
| Color Accuracy <small>(Color rendering index (CRI))</small> | 98 |

Light Color
Controlled Color Temperature (CCT)

5008 (Daylight)

↓

| | | |
|------------|--------------|----------|
| Warm White | Bright White | Daylight |
| 2700K | 5000K | 5000K |

| | |
|-------------------|------------|
| Warranty** | Yes |
|-------------------|------------|

All products tested LED Energy Efficiency, and awarded an ENERGY STAR® for the year 2014. Approved by the U.S. Environmental Protection Agency. *Energy Star® is a U.S. government-backed program that encourages energy efficiency and environmental friendliness.

**** See www.lightingfacts.com/products for details.**

Manufacturer: PowerLite, Model: 5008 (LED) and 5008 (Incandescent)
Model Number: 5008 (LED) and 5008 (Incandescent)
PowerLite.com/energyefficiency

lighting facts®
A.P.R. by S.A.S. S.r.l.

| | |
|--|-------|
| Light Output (Lumens) | 15056 |
| Watts | 208.8 |
| Lumens per Watt (Efficacy) | 72 |
| Color Accuracy (Color Rendering Index, CRI) | 76 |

Light Color
Warm White Color Temperature: 4200K

5433 (Daylight)

380nm 400nm 450nm 500nm 550nm 600nm 650nm 700nm 750nm 800nm

As results are according to ENIECEN LM-79-2008; Approved Method for the Electrical and Photometric Testing of Solid State Lighting (ESSL) Equipment of up to 400 W per LED product test source and more.

Visit www.lightingfacts.com for the Label Reference Guide.

Ingegneria Huber - Acilio - Milano & Piacenza
Via del Lavoro, 11 - I-41012 Prato Po (MO)
Tel.: 0536/56511 Fax: 0536/56512
E-mail: info@huber.it

LED  **lighting facts**
America's #1 LED Light

| | |
|---|--------------|
| Light Output (Lumens) | 22898 |
| Watts | 339.5 |
| Lumens per Watt (Efficacy) | 67 |
| Color Accuracy <small>(Color Rendering Index (CRI))</small> | 75 |

Light Color
(General Color Temperature (CCT))

4102 (Bright White)



↓

4102 (Bright White)

Warm White Bright White Daylight

2700K 3000K 4500K 6500K

Warranty** **Yes**

*All results except LED color rendering are according to ENERGY STAR's 2015-2016 Energy Guidebook for small LEDs and non-dimmable LED lighting. LED Color Rendering is the U.S. Department of Energy (DOE) minimum goal for all LEDs and LEDs.

**** See www.lightingfacts.com/products for details.**

Registration Number: A914346 LED Facts by LEDco Inc.
 Made in Taiwan. ©, Liability to Manufacturer.
 Trust in Science, Innovation, Technology.

PEDESTRIAN BOLLARD LIGHT

Attachment 5

TEMPE
SERIES

NEW

| | | |
|---------------|-----------|--|
| Cat. # | Approvals | |
| Job | Type | |
| OLYMPIA - HGI | AL 3 | |

SPAULDING
LIGHTING

INTENDED USE:

- Tempe series bollards are designed to illuminate walkways and courtyards

CONSTRUCTION:

- Extruded aluminum square or round housing, with tamper resistant hardware; Single screw access for top relamping Decorative Southwest series cast top with single access screw for maintenance
- Sealed one-piece, clear acrylic lens; Specular, anodized aluminum optical systems; dual reflector, tube optics, or internal louvers (HID or CFL)
- Concealed, galvanized steel anchor base; Four 1/2" x 10" anchor bolts
- Durable Lektrocote® TGIC thermoset polyester powder coat paint finish assures long life and maintenance-free service

ELECTRICAL:

HID

- HPF ballast, starting rated at -20°F (-40°F for HPS); Pulse Start Metal Halide is CWA or Super CWA type HPS is CWA, HR, or Reactor type
- Medium porcelain socket, pulse rated, with spring-loaded, nickel-plated center contact and reinforced lamp grip screw shell

FLUORESCENT

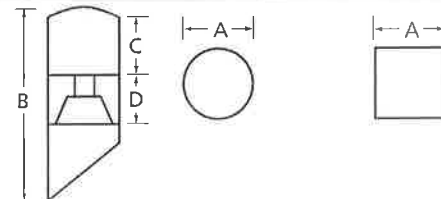
- Programmed Start electronic ballast with end of life protection and universal voltage: 26/32/42w
 - One Lamp - CFTR/GX24Q - Triple Tube 4-Pin
- ## LED
- Universal voltage (120-277V) drivers with +/- 10% tolerance, starting temperature rated at -20°F
 - Optional continuous dimming to 10% (0-10V)
 - Rotatable LED assembly adjustment for ideal placement and aiming of asymmetric light pattern
 - 24 high brightness LEDs at 500 mA deliver symmetric distribution at 46w
 - 12 high brightness LEDs at 700 mA deliver asymmetric distribution at 31w
 - Available in two color correlated temperatures (3500K and 5100K)
 - Long life 50,000 hour L70 rated at 25°C

LISTINGS:

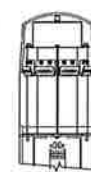
- Listed to UL1598 for use in wet locations

WARRANTY:

- 5 year limited system warranty



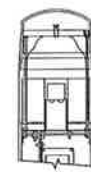
| | A | B | C | D | Weight |
|------------|-----------|---------|--------|--------|---------|
| TMR | 7" dia. | 41.5" | 5.5" | 4.0" | 41 lbs |
| | 178 mm | 1054 mm | 140 mm | 102 mm | 18.6 kg |
| TMS | 6.75" dia | 41.5" | 5.5" | 4.0" | 41 lbs |
| | 171 mm | 1054 mm | 140 mm | 102 mm | 18.6 kg |



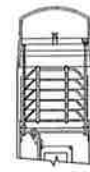
LED - 24LU optics



DO - Dual reflector with cone (standard)



TO - Tube optics



IL - Internal louver



- Features exclusive wiHUBB technology
- Wireless system for On/Off and 0-10VDC full range dimming control
- Programmable autonomous operation

ORDERING INFORMATION

ORDERING EXAMPLES: TMR-P50-DO-Q-DB-L, TMS-12LU-5K-U-DB

| TMS | | 12LU-5K | | IL | | U | | DB | | HS | |
|--------|--------------|--------------------------|--|---------------------|-------------------------------------|------------------|--------------------------------|-------|--------------------------------|----------------------|---|
| SERIES | | SOURCE/WATTAGE/LED | | OPTICS ¹ | | VOLTAGE | | COLOR | | OPTIONS | |
| TMR | Tempe Round | PULSE START METAL HALIDE | | DO | Dual reflector with cone (standard) | Q ¹ | Quad-Tap® 120/208/240/277V | DB | Dark Bronze | F(X) | Fusing (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V) |
| ✓ TMS | Tempe Square | P50 | 50w (ED-17) | | | T ^{1.4} | Tri-Tap® 120/277/347V (CSA) | BL | Black | | |
| | | P70 | 70w (ED-17) | TO ³ | Tube optics | | | WH | White | F5 ^{6,8} | Fusing 480V |
| | | P10 | 100w (ED-17) | ✓ IL | Internal horizontal louvers | ✓ U ⁵ | Universal 120 - 277V, 50/60 Hz | GR | Gray | F6 ^{6,8} | Fusing 347V |
| | | HIGH PRESSURE SODIUM | | | | 1 | 120V | PS | Platinum Silver | P(X) | Photo button (replace X with voltage: 1-120V, 2-208V, 3-240V, 4-277V) |
| | | S35 ² | 35w (ED-17) | | | 5 ^{6,8} | 480V | RD | Red (premium color) | | |
| | | S50 | 50w (ED-17) | | | | | FG | Forest Green (premium color) | | |
| | | S70 | 70w (ED-17) | | | | | CC | Custom Color (consult factory) | P6 ^{6,8} | Photo button - 347V |
| | | S10 | 100w (ED-17) | | | | | | | DM ⁸ | Dome top (round only) |
| | | FLUORESCENT | | | | | | | | 24 | 24" luminaire height |
| | | F26 | 26w CFL (G24q Base) | | | | | | | 30 | 30" luminaire height |
| | | F32 | 32w CFL (G24q Base) | | | | | | | 36 | 36" luminaire height |
| | | F42 | 42w CFL (G24q Base) | | | | | | | HS90 ⁸ | Internal shield - 90° (FN1 Only) |
| | | LED | | | | | | | | ✓ HS160 ⁸ | Internal shield - 160° |
| | | 12LU-3K | 12 LEDs, 31w, asymmetric distribution, 3500K, 120-277V, 50/60 Hz | | | | | | | ✓ HS180 ⁸ | Internal shield - 180° (FN2 only) |
| | | ✓ 12LU-5K | 12 LEDs, 31w, asymmetric distribution, 5000K, 120-277V, 50/60 Hz | | | | | | | L ⁸ | Lamp |
| | | 24LU-3K | 24 LEDs, 62w, symmetric distribution, 3500K, 120-277V, 50/60 Hz | | | | | | | CD ⁹ | Continuous dimming |
| | | 24LU-5K | 24 LEDs, 62w, symmetric distribution, 5000K, 120-277V, 50/60 Hz | | | | | | | WIH ⁹ | In fixture wireless control module, pg. 381 |

- Factory wired for highest voltage unless specified, HID only
- 120V only
- Upper reflector with no lower cone
- 70 or 100w system only
- CFL or LED only
- Not available with CFL
- Not available with WIH option
- Not available with LED units
- Dimming function available in LED only

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

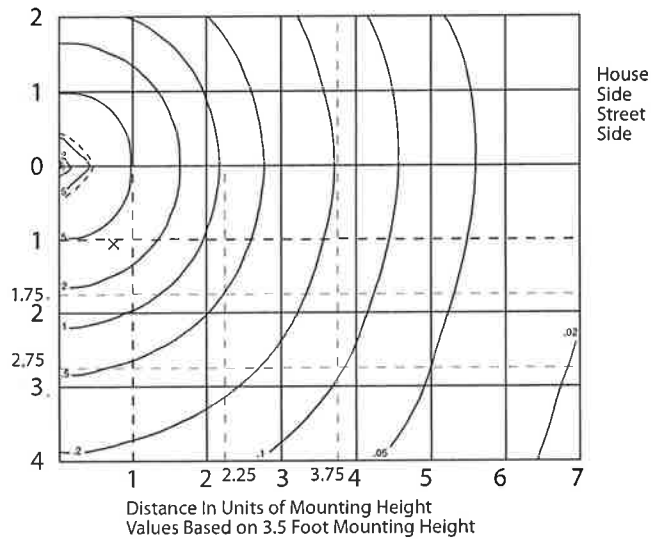
SPAULDING
LIGHTING

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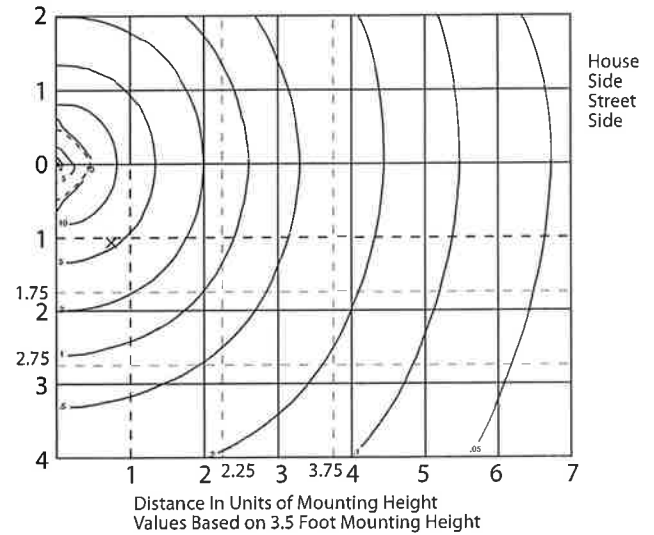
For more information visit our web site: www.spauldinglighting.com Copyright © 2013 SPAULDING LIGHTING All Rights Reserved TEMPE-SPEC6/13 Printed in USA

PHOTOMETRIC DATA

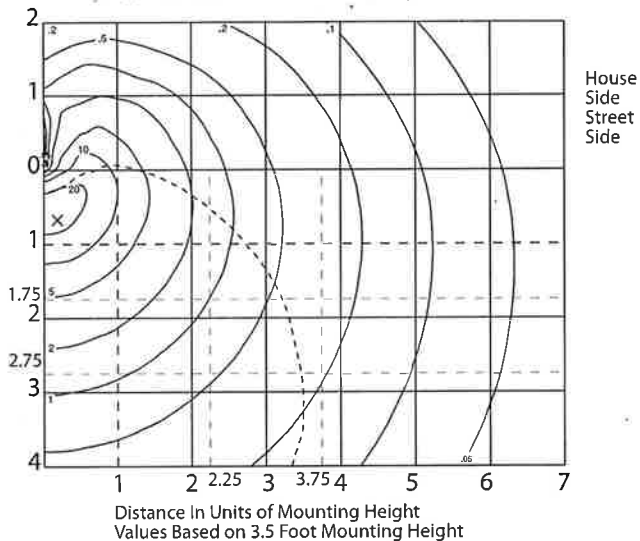
TMS-12LU-3K: 12LEDS
ASYMMETRIC DISTRIBUTION, 3000K



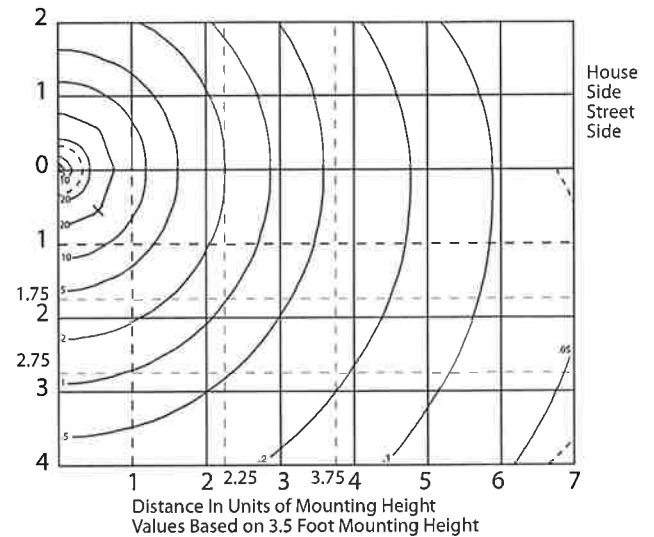
TMS-24LU-3K: 24LEDS
SYMMETRIC DISTRIBUTION, 3000K



TMR-12LU-5K: 12LEDS
ASYMMETRIC DISTRIBUTION, 5000K



TMR-24LU-5K: 24LEDS
SYMMETRIC DISTRIBUTION, 5000K



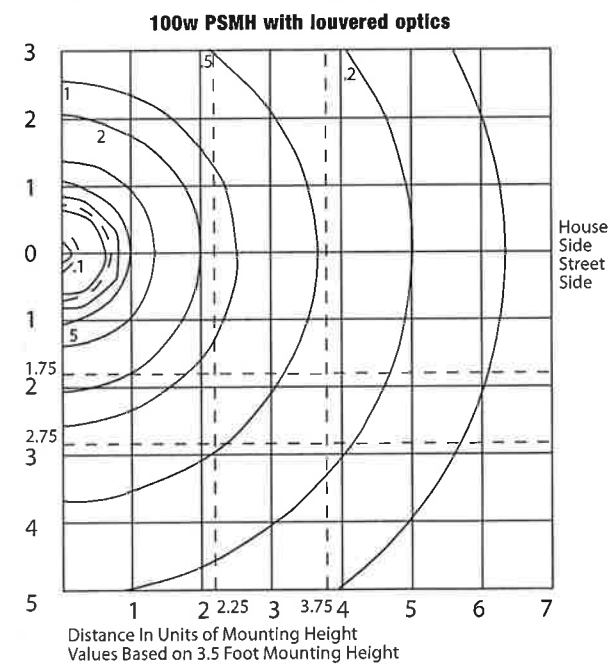
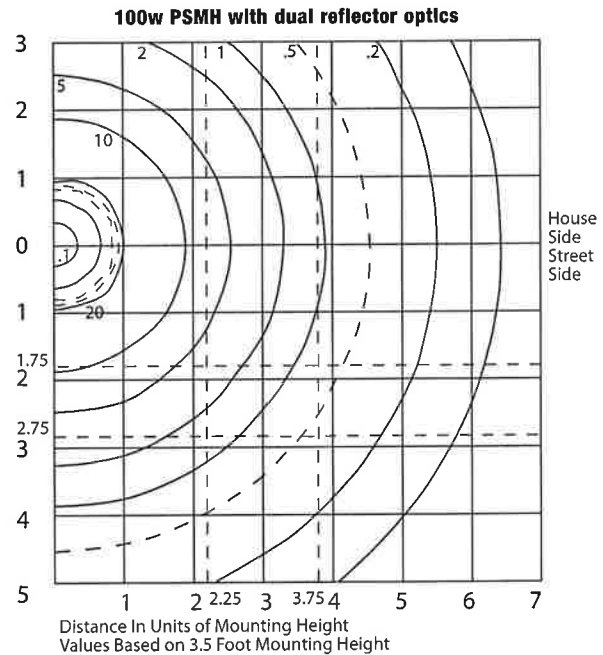
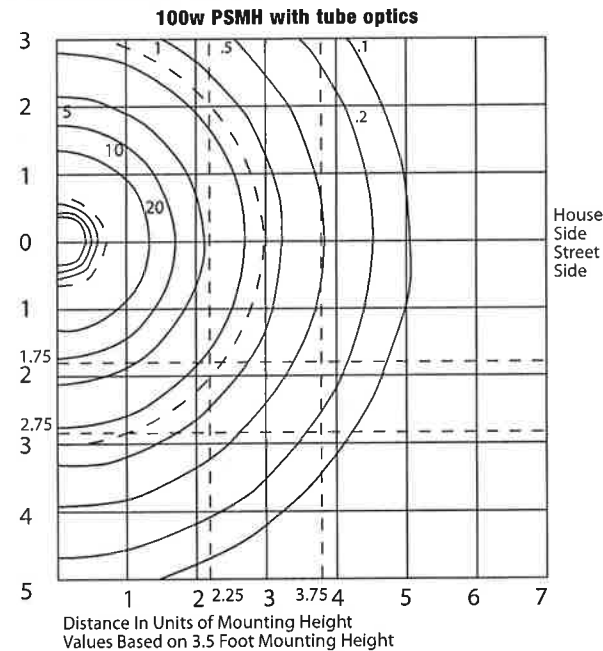
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LIGHTING

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 For more information visit our web site: www.spauldinglighting.com

TECHNICAL DATA

| TEMPE BOLLARD ELECTRICAL DATA | | Input Current (amps) | | | | | |
|--------------------------------------|----------------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|
| Lamp/Watts | Input Wattage | 120V | 208V | 240V | 277V | 347V | 480V |
| P50 | 69 | 1.20 | 0.68 | 0.59 | 0.51 | NA | NA |
| P70 | 94 | 1.90 | 1.00 | 0.90 | 0.80 | 0.70 | NA |
| P10 | 129 | 2.30 | 1.40 | 1.20 | 1.00 | 1.00 | 0.60 |
| S35 | 46 | 1.40 | NA | NA | NA | NA | NA |
| S50 | 62 | 1.00 | 0.57 | 0.50 | 0.45 | NA | NA |
| S70 | 86 | 1.40 | 0.90 | 0.80 | 0.70 | 0.60 | NA |
| S10 | 115 | 2.20 | 1.30 | 1.10 | 0.90 | 0.70 | 0.60 |
| F42 | 46 | .38 | .22 | .13 | .11 | NA | NA |

PHOTOMETRIC DATA

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

**SPAULDING
LIGHTING**

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For more information visit our web site: www.spauldinglighting.com

ALLSCAPE

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 Littlestown, PA 17340
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 allscape@philips.com
 www.allscape.net

SL-23

X
 FLAG POLE IN-GROUND
 LIGHT

Landscape Areas

Wall Wash

Flagpole Lighting

Building Accent

Driveway Marker

Sign Lighting



Specifications



Certifications ETL and CETL listed for wet location, direct burial, and concrete pour. Certified to IP65 and IP67 to ensure protection against the harshest environments. IEC compliant versions available, consult factory.

Lamp/Ballast Housing Compression molded Rhinolite™ composite material, structurally reinforced with glass fibers. Superior resistance to ultraviolet degradation and corrosion resistant in harsh environments. Trim Ring (TR) and Debris Cover (DC) supplied standard.

Splice Compartment Supplied with two 3/4" NPT conduit entrances. Connection to ballast compartment by way of anti-wicking device. Sealed with gasketed die cast aluminum cover plate. Suitable for through wiring.

Lens Standard 3/8" clear tempered flat borosilicate glass (F) or ADA anti slip and walkover clear tempered flat borosilicate glass (ADA). Flat lenses will withstand loads up to 200 PSI. Sealed to housing with high temperature injection molded silicone gasket. Optional linear spread lens also available.

Lens Frame Heavy duty die cast bronze lens frame is supplied as standard. Fastened to housing with six captive 10-24 stainless steel Allen cap screws.

Reflectors Spun aluminum highly specular Alzak™ finish for either NEMA type 1 or 2 spot (SPT) or NEMA type 3 or 4 flood (FLD) distributions. Field adjustable up to 25° tilt and 360° horizontal rotation. NOTE: Tilt adjustment varies by lamp type. A segmented fluorescent reflector is available for up to 42W lamps.

Lamp Holder Porcelain 4kv pulse rated medium base for HID and Incandescent lamp sources.

Options Cast aluminum Convex Rock Guard (CR), Directional Shield (DS), and Driveway Marker (DM). Internal Glare Shield (IGS), Internal Hex Cell Louver (HL), Glass Color Filter (GF), Grout Mask (GM), Die cast bronze Port Hole (PH).

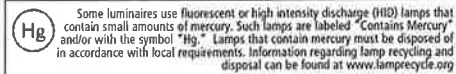
Finish Housing Black (BK). Options can be painted in standard or custom colors. Powder Coat Standard.

Safety Caution: Care should be taken when specifying fixtures for use in pedestrian walkways to avoid problems that may be caused by high lens temperatures. Consult factory for more information.

Warning Caution: Care should be taken not to install in-ground fixtures in areas where water can stand for prolonged periods of time. Sufficient drainage must be provided to avoid problems. Consult factory for more information.

SL-23

| |
|--------------|
| PROJECT |
| FIXTURE TYPE |
| CATALOG# |



Product Order Guide

| Series | Max Watts | Lamp Type | Voltage ⁶ | Optics | Lens | Finish ⁶ | Options |
|--------|---|-----------------------|----------------------|-------------------|--------------------------------|--|---|
| SL-23 | Fluorescent | | | | | | |
| | 26CFT | CFT ¹ | 120 | SPT ¹ | Spot | F ¹ Clear Flat | BK ⁶ Black DM ¹ Driveway Marker ^{2,5,7} |
| | 32CFT | CFT ¹ | 208 | | | ADA ^{1,3} ADA Walkover | BZ ⁶ Bronze CR ¹ Convex Rockguard ^{5,7} |
| | 42CFT | CFT ¹ | 240 | WW ¹ | Wallwash | LS ¹ Linear Spread | WH ⁶ White DS ¹ Directional Shield ^{5,7} |
| | | | 277 | FL ¹ | Fluorescent | GR ⁶ Green PH ⁴ Porthole | NA ⁶ Natural Alum IGS ¹ Glare Shield |
| | High Pressure Sodium | | | | | | |
| | 50HPS | E17 ¹ | | NFLD ¹ | Narrow Flood | GY ⁶ Gray HL Hex Cell Louver | 70HPS |
| | 70HPS | E17 ¹ | | MFLD ¹ | Medium Flood | CC ⁶ Custom Color GF Glass Color Filter | |
| | Metal Halide | | | | | | |
| | 50MH | E17 ¹ | | | | | GM Grout Mask |
| | 70MH | Par30 ^{1,8} | | | | | AHOT AIM-HOT™ |
| | 39MH | Par20 ⁸ | | | | | LFSS ¹ Stainless Steel Lens Frame |
| | 70MH | E17 ¹ | | | | | STA ¹ Square Top Adaptor ^{5,7} |
| | 70MH | T6 or T4 ¹ | | | | | |
| | 35MH | R111 ^{1,8} | | | | | |
| | 20MH | BT5 ¹ | 120 | | | | |
| | 20MH | T4 ¹ | 120/277 | | | | |
| | 39MH | T6 or T4 ¹ | | | | | |
| | Incandescent/Halogen/Low Voltage | | | | | | |
| | 75INC | Par30 ^{1,8} | 120 | | | | |
| | 100INC | T4mini ¹ | 120 | | | | |
| | 50INC | Par20 ⁸ | 120 | | | | |
| | 75INC | MR16 ⁹ | 120/277/12 | | | | |
| | 50INC | AR111 ^{1,8} | 120/277/12 | | | | |
| | LED | | | | | | |
| | 1X5 5WLED | CUS ^{1,9} | 120-277 | 10,35,45 | White (3050°K/ 4700°K) | | |
| | Titan 25WW | CUS3 ^{1,9} | 120-277 | 25,45 | Warm White (3050°K) | | |
| | Titan 25CW | CUS3 ^{1,9} | 120-277 | 25,45 | Cool (Daylight) White (4700°K) | | |

¹ Not available with the PH Porthole option, use Par20 or MR16 only.

CFT = triple biax

² The DM Driveway Marker can be used with any lamp option.

Note: E17 Lamps 150W and below are medium base

³ Use HPBB version if greater than 39W.

⁴ The PH Porthole option is supplied as standard in die cast bronze.

⁵ These options are supplied in heavy wall cast aluminum with baked enamel painted finish.

⁶ Consult factory for other voltages and finishes. Powder Coat Standard.

⁷ Consult factory for cast bronze options.

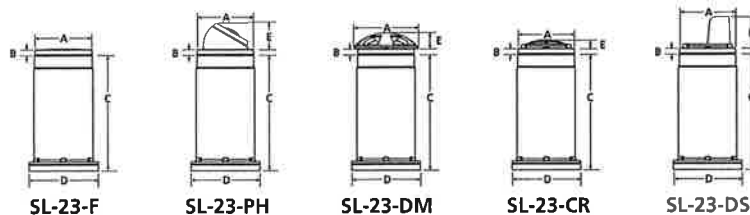
⁸ Does not require internal optics.

⁹ The CUS version uses a 5W Atlas from Lamina. The CUS3 uses a 25W Titan from Lamina with no tilt.

Example: SL-23-70MH-T6-277-SPT-F-BK-DS

Luminaire Dimensions

| Luminaire | A | | B | | C | | D | | E | | Weight | |
|-----------|------|-----|------|----|-------|-----|------|-----|------|-----|--------|-----|
| | Inch | mm | Inch | mm | Inch | mm | Inch | mm | Inch | mm | lbs. | kg |
| SL-23-F | 6.95 | 177 | 0.75 | 19 | 14.10 | 358 | 8.50 | 216 | n/a | n/a | 19.0 | 8.6 |
| SL-23-PH | 6.95 | 177 | 0.75 | 19 | 14.10 | 358 | 8.50 | 216 | 3.35 | 85 | 21.0 | 9.5 |
| SL-23-DM | 8.00 | 203 | 0.75 | 19 | 14.10 | 358 | 8.50 | 216 | 2.00 | 51 | 21.0 | 9.5 |
| SL-23-CR | 6.95 | 177 | 0.75 | 19 | 14.10 | 358 | 8.50 | 216 | 1.00 | 25 | 19.5 | 8.8 |
| SL-23-DS | 6.95 | 177 | 0.75 | 19 | 14.10 | 358 | 8.50 | 216 | 3.85 | 98 | 20.0 | 9.1 |



* WALL LIGHTS AT EXIT DOORS

DESCRIPTION

The patent pending Lumark Crosstour™ LED Wall Pack Series of luminaries provides an architectural style with super bright, energy efficient LEDs. The low-profile, rugged die-cast aluminum construction, universal back box, stainless steel hardware along with a sealed and gasketed optical compartment make the Crosstour impervious to contaminants. The Crosstour wall luminaire is ideal for wall/surface, inverted mount for façade/canopy illumination, post/bollard, site lighting, floodlight and low level pathway illumination including stairs. Typical applications include building entrances, multi-use facilities, apartment buildings, institutions, schools, stairways and loading docks.

SPECIFICATION FEATURES

Construction

Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 10W and 20W. The large housing is available in the 30W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

Optical

Silicone sealed optical LED chamber incorporates a custom engineered mirrored anodized reflector providing high-efficiency illumination. Optical assembly includes impact-resistant tempered glass and meets IESNA requirements for full cutoff compliance. Solid state LED Crosstour luminaires are thermally optimized with five (5) lumen packages in cool 5000K or neutral warm 3500K LED color temperature (CCT).

Electrical

LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 10W models operate in -40°C to 40°C [-40°F to 104°F]. 20W and 30W models operate in -30°C to 40°C [-22°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 70% of initial

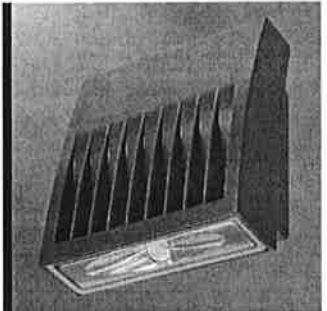
light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

Finish

Crosstour is protected with a Super durable TGIC carbon bronze or summit white polyester powder coat paint. Super durable TGIC powder coat paint finishes withstand extreme climate conditions while providing optimal color and gloss retention of the installed life.

Warranty

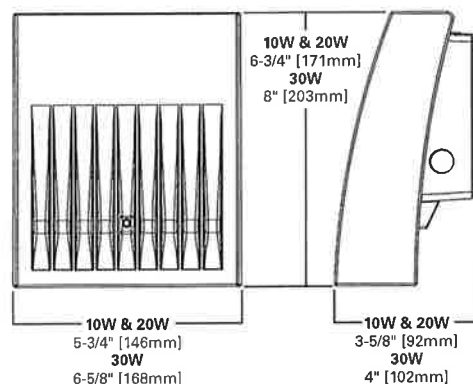
Five-year limited warranty.



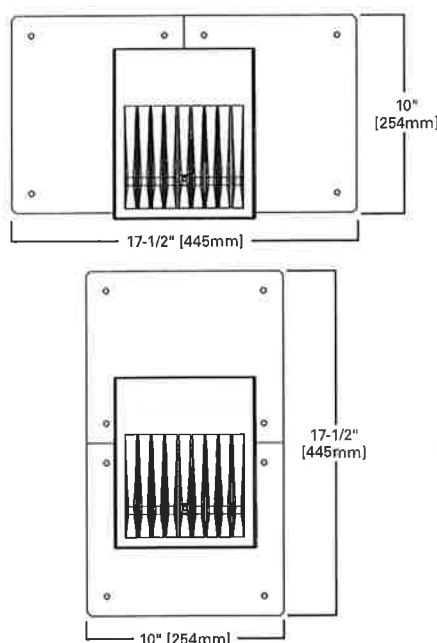
XTOR CROSSTOUR LED

APPLICATIONS:
WALL / SURFACE
POST / BOLLARD
LOW LEVEL
FLOODLIGHT
INVERTED
SITE LIGHTING

DIMENSIONS



ESCUTCHEON PLATES



CERTIFICATION DATA

UL/cUL Wet Location Listed
LM79 / LM80 Compliant
ROHS Compliant
ARRA Compliant
ADA Compliant
NOM Compliant Models
IP66 Ingressed Protection Rated
Lighting Facts® Registered
DesignLights Consortium® Qualified*
Title 24 Compliant

TECHNICAL DATA

40°C Maximum Ambient Temperature
External Supply Wiring 90°C Minimum

EPA

Effective Projected Area:
(Sq. Ft.)
XTOR1A/XTOR2A=0.34
XTOR3A = 0.45

SHIPPING DATA:

Approximate Net Weight:
3.7 – 5.25 lbs. [1.7 – 2.4 kgs.]

LUMEN MAINTENANCE

| Ambient Temperature | TM-21 Lumen Maintenance (72,000 Hours) | Theoretical L70 (Hours) |
|---------------------|--|-------------------------|
| 10W Model | | |
| 25°C | > 91% | > 350,000 |
| 40°C | > 91% | > 340,000 |
| 50°C | > 91% | > 330,000 |
| 20W Model | | |
| 25°C | > 91% | > 340,000 |
| 40°C | > 90% | > 320,000 |
| 50°C | > 90% | > 300,000 |
| 30W Model | | |
| 25°C | > 91% | > 340,000 |
| 40°C | > 91% | > 320,000 |
| 50°C | > 90% | > 300,000 |

LUMENS - CRI/CCT TABLE

| LED Information | XTOR1A | XTOR2A | XTOR2A-N | XTOR3A | XTOR3A-N |
|---|----------|----------|----------|----------|----------|
| Delivered Lumens (Wall Mount) | 734 | 1432 | 1323 | 2649 | 2273 |
| Delivered Lumens (With Flood Accessory Kit) | 713 | 1424 | 1315 | 2614 | 2243 |
| B.U.G. Rating* | B1-U0-G0 | B1-U0-G0 | B1-U0-G0 | B1-U0-G0 | B1-U0-G0 |
| CCT (Kelvin) | 5000 | 5000 | 3500 | 5000 | 3500 |
| CRI (Color Rendering Index) | 67 | 65 | 68 | 65 | 68 |
| Power Consumption (Watts) | 8W | 21W | 21W | 30W | 30W |

* B.U.G. Rating does not apply to floodlighting.

CURRENT DRAW

| Voltage | Model Series | | |
|---------|--------------|-------|-------|
| | 10W | 20W | 30W |
| 120V | 0.06A | 0.21A | 0.29A |
| 208V | 0.04A | 0.13A | 0.18A |
| 240V | 0.04A | 0.12A | 0.16A |
| 277V | 0.03A | 0.10A | 0.14A |
| 347V | 0.03A | 0.08A | 0.11A |

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

| Series ¹ | LED Kelvin Color ² | Housing Color | Options (Add as Suffix) | Accessories (Order Separately) |
|--|--|---|---|---|
| XTOR1A=Small Door, 10W XTOR2A=Small Door, 20W XTOR3A=Small Door, 30W | [Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K | [Blank]=Carbon Bronze (Standard) WT=Summit White | 347V=347V ³ PC1=Photocontrol 120V ³ PC2=Photocontrol 208-277V ^{3,4} HA=50°C High Ambient ⁵ | WG/XTOR=Wire Guard ⁶ XTORFLD-KNC=Knuckle Floodlight Kit ⁷ XTORFLD-TRN=Trunnion Floodlight Kit ⁷ XTORFLD-KNC-WT=Knuckle Floodlight Kit, White ⁷ XTORFLD-TRN-WT=Trunnion Floodlight Kit, White ⁷ EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White |

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with HA option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN)

STOCK ORDERING INFORMATION

| 10W Series | 20W Series | 30W Series |
|---|--|--|
| XTOR1A=10W, 5000K, Carbon Bronze | XTOR2A=20W, 5000K, Carbon Bronze | XTOR3A=30W, 5000K, Carbon Bronze |
| XTOR1A-WT=10W, 5000K, Summit White | XTOR2A-N=20W, 3500K, Carbon Bronze | XTOR3A-N=30W, 3500K, Carbon Bronze |
| XTOR1A-PC1=10W, 5000K, 120V PC, Carbon Bronze | XTOR2A-WT=20W, Summit White | XTOR3A-WT=30W, Summit White |
| | XTOR2A-PC1=20W, 120V PC, Carbon Bronze | XTOR3A-PC1=30W, 120V PC, Carbon Bronze |



Days Quick-Ship

5-DAY QUICK SHIP ORDERING INFORMATION

| 10W Series | 20W Series | 30W Series |
|---|---|---|
| XTOR1A-WT-PC1=10W, 5000K, Summit White, 120V PC | XTOR2A-PC2=20W, 5000K, 208-277V PC, Carbon Bronze | XTOR3A-PC2=30W, 5000K, 208-277V PC, Carbon Bronze |
| | XTOR2A-WT-PC1=20W, 5000K, Summit White, 120V PC | XTOR3A-WT-PC1=30W, 5000K, Summit White, 120V PC |
| | XTOR2A-WT-PC2=20W, 5000K, Summit White, 208-277V PC | XTOR3A-WT-PC2=30W, 5000K, Summit White, 208-277V PC |
| | XTOR2A-N-WT=20W, 3500K, Summit White | XTOR3A-N-WT=30W, 3500K, Summit White |
| | XTOR2A-N-PC1=20W, 3500K, 120V PC, Carbon Bronze | XTOR3A-N-PC1=30W, 3500K, 120V PC, Carbon Bronze |
| | XTOR2A-N-PC2=20W, 3500K, 208-277V PC, Carbon Bronze | XTOR3A-N-PC2=30W, 3500K, 208-277V PC, Carbon Bronze |
| | XTOR2A-N-WHT-PC1=20W, 3500K, Summit White, 120V PC | XTOR3A-N-WHT-PC1=30W, 3500K, Summit White, 120V PC |
| | XTOR2A-N-WT-PC2=20W, 3500K, Summit White, 208-277V PC | XTOR3A-N-WT-PC2=30W, 3500K, Summit White, 208-277V PC |

Floodlighting Application

KIM AL20 SERIES BUILDING ILLUMINATION USE KIM ALF22

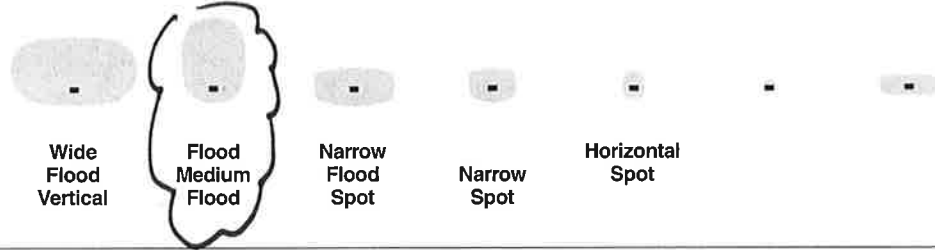
System Approach

Kim Architectural Floodlighting Systems are engineered to produce the specific distributions required to illuminate horizontal and vertical surfaces from minimal set-back distances, or mounting heights. This differs greatly from sports fields, where long distances (tall mounting heights) and considerable distribution overlaps are utilized. In General Floodlighting, cut-off, control of glare and special effects are not considered important design criteria. Neither of these systems produce efficient illumination for the Architectural Environment.

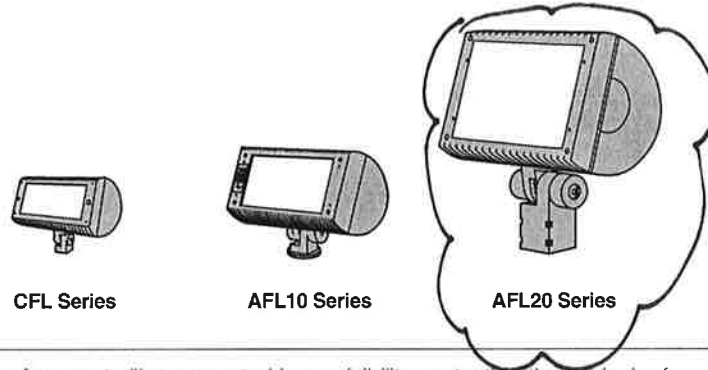
Architectural Floodlighting demands close luminaire-to-surface distances and minimal distribution overlap to reduce the number of fixtures required. Architectural features often dictate luminaire locations that are less than ideal, requiring special optical features.

To satisfy these requirements, **Architectural Floodlighting** demands a wide range of beam distributions. Further, the need to control unwanted lamp visibility, or to produce special architectural effects, such as streaking, and surface grazing, require specialized optical systems and accessories.

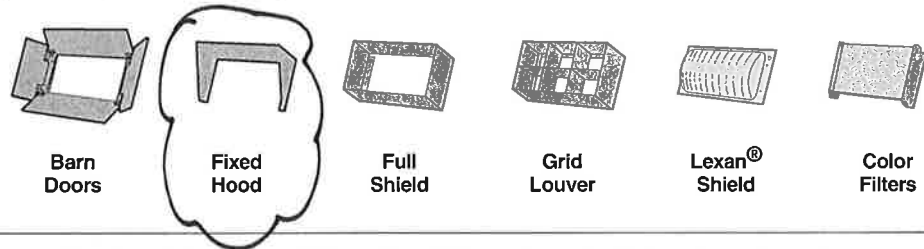
Seven Distinct Optical Distributions produce the required range to illuminate virtually any surface from very close to long distances.



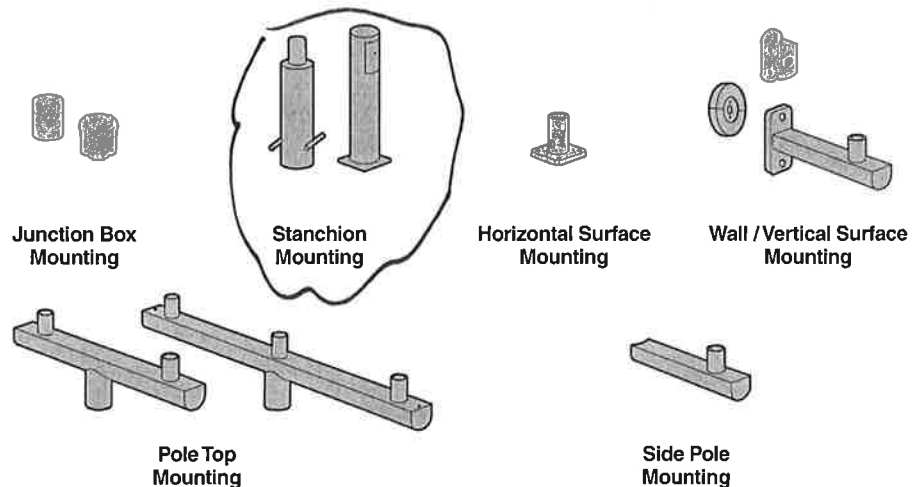
Four Luminaire Sizes provide a range of the most compact fixture scale for the requisite lamp. Fixture sizes range from the smallest (CFL) in Incandescent, Halogen, Compact Fluorescent and H.I.D. lampings to 70 watt, to the largest (AFL20) in H.I.D. lampings up to 400 watt.



Accessories, controlling unwanted lamp visibility, protecting the luminaire from vandalism, or reducing spill light in tight spotlighting distributions, make fine-tuning luminaires to special applications requirements possible. See pages 3-5 for additional details.



Kim provides the widest range of **Mounting Options** to assure that each luminaire can be mounted rigidly, to preserve aiming and provide years of trouble-free service.



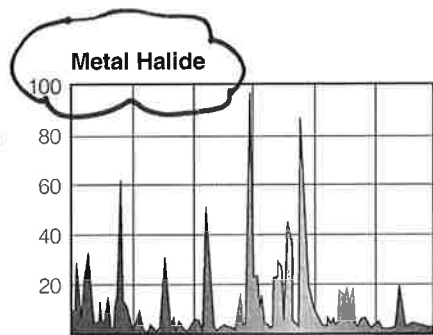
NOTE: Refer to individual series information for specific option and accessory availability.

Color Effects and Lamp Selection

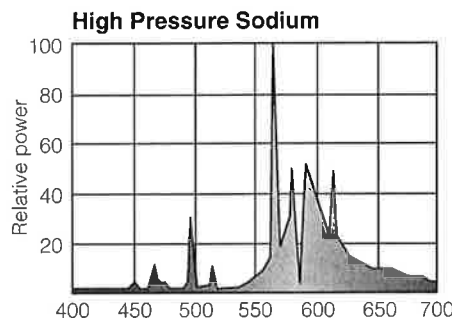
Lamp Selection

Lamp selection should be based on the coloration of the target surfaces being lighted. Where the target is predominantly warm in color, such as brick, stone, or earth-tone paint, High Pressure Sodium is appropriate. For whites, cool paint colors, exposed metals such as stainless steel, and for the greens in landscape, Metal Halide may be a more appropriate choice.

Wavelength in nanometers — 400 450 500 550 600 650 700



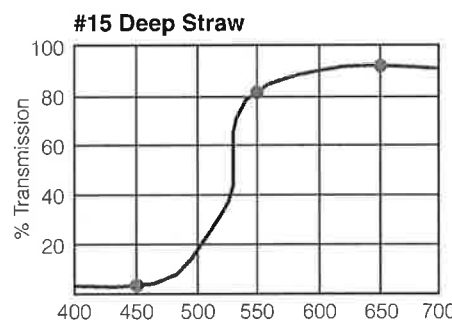
The spectral distribution chart at left shows where Metal Halide lamp output is greatest. Note that its output in the red zone, above 600nm, is very weak. This means that this lamp will not render red color well, and will tend to tint whites to appear blue and blue-green, as this is where the lamps greatest energy is produced.



The spectral distribution chart at left shows where High Pressure Sodium lamp output is greatest. Note that its output below 550nm is very weak. The strong output in the 560nm to 625nm range is what gives this lamp its characteristic yellow-orange color appearance. These lamps will not render blue surface colors well, and will tend to tint whites to a yellow-orange color appearance.

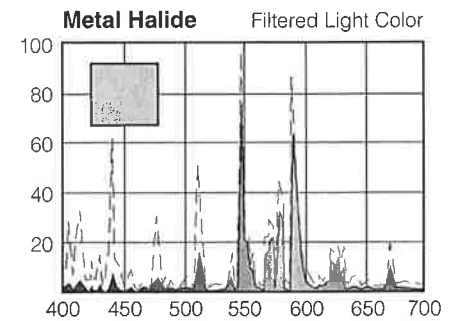
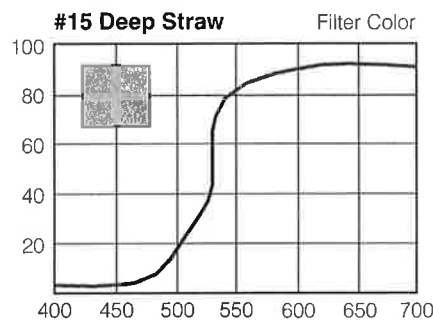
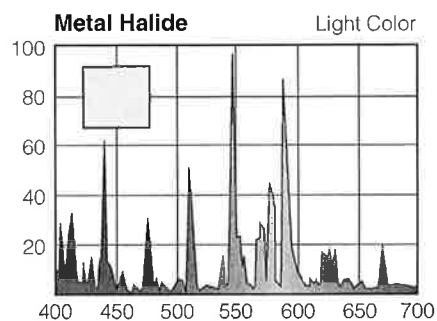
Color Filters

Color filters can be used to modify lamp coloration, or to add a dramatic color effect to a project. Color filters work simply by blocking some wavelengths of light, and transmitting others. Color filters cannot add color to the light passing through them. Therefore, when using color filters with H.I.D. sources, it is important to select an appropriate source, as it will have a dramatic impact on the appearance of the resulting light output.



The color distribution shown for each filter is a representation of the amount of light transmitted at each wavelength. In this example; the filter will transmit approximately (●) 2% of the light passing through it at 450nm, 80% at 550nm, and 90% at 650nm.

Lamp spectral energy distribution will have a dramatic effect on the color transmitted by the color filter.



Raw Lamp Output

Filter Characteristics

Resulting Light Output

Floodlighting Effects

Setback Distance

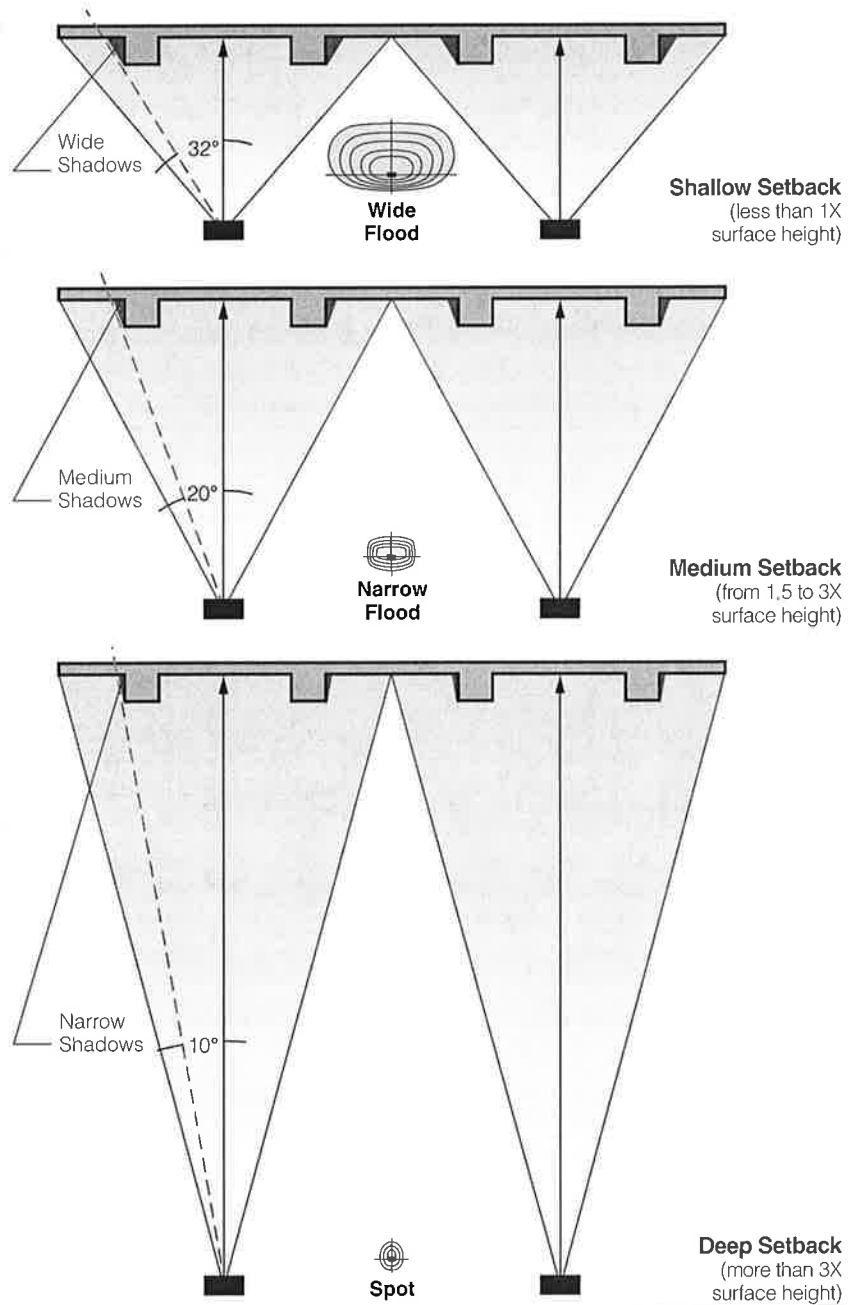
The largest impact of setback distance is on how the surface details of the target will be modeled. The availability of a wide range of complementary optical systems means that the appropriate setback distance can be used to achieve desired shadowing and surface appearance.

Shadow Width and Setback Distance

Shadowing from surface relief is inversely proportional to setback distance. Shallow setback distances render deeper shadows. As setback distances increase, the depth of shadows is reduced.

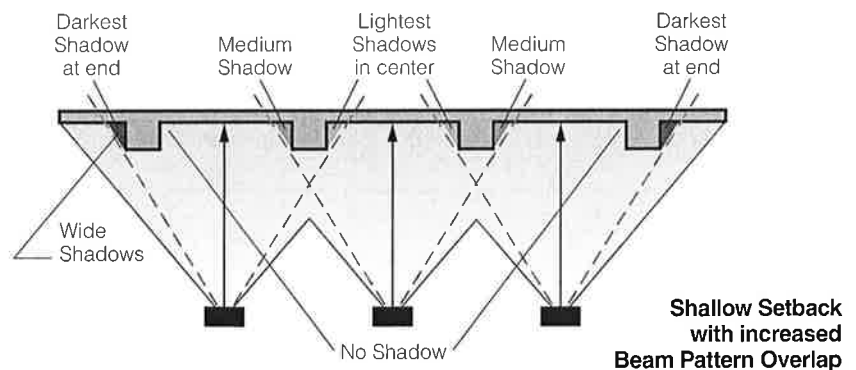
Shadows Define Shape and Depth

Shadowing defines the shape, surface texture and rendered depth of target surfaces. Elimination of all shadowing will produce a surface that appears flat. Conversely deeper, high contrast shadowing produces dramatic effects. Controlling setback distances, and the overlap of beam patterns is the key to producing a desired result.



Pattern Overlap

Increasing the overlap between adjacent beam patterns will reduce the contrast between illuminated areas and shadowing. However, shadow width will not be reduced, as this is a function of setback distance.

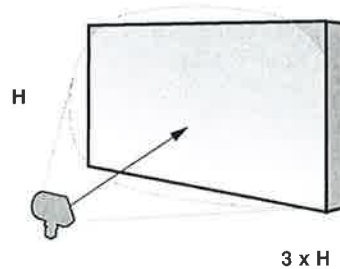


Floodlighting Effects

Flat Lighting

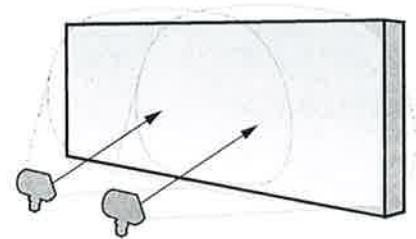
Flat lighting produces a surface that is uniformly illuminated and renders minimal surface texture and shadowing from surface relief. To achieve the best results, maximize setback distances and keep aiming angles to a minimum. For large surfaces, increase pattern overlap to reduce shadowing effects and maintain a Uniformity Ratio of between 3:1 to 4:1. *Watch out for window locations, as this effect can produce offensive glare to building occupants. Additionally, reflected glare from luminaires may be visible in windows located at the same elevation as the observer.*

Single Fixtures



Maximize Setback Distances and minimize aiming angles.

Multiple Fixtures

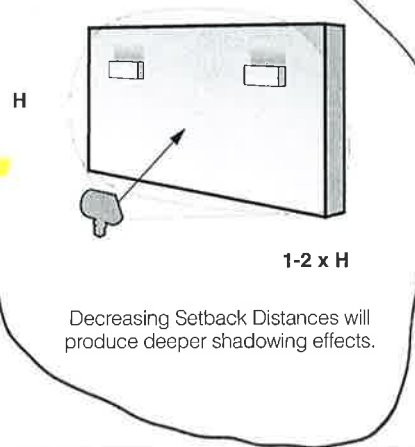


Maximize Pattern Overlap to attain a **3:1 Uniformity Ratio**.

Surface Modeling

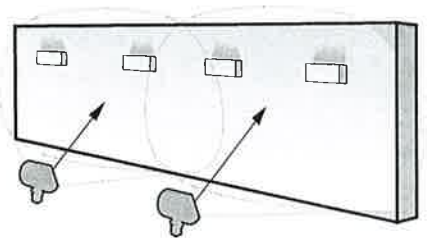
Surface modeling produces subtle to dramatic modeling of surface detail and texture. For surfaces with deep relief, increase setback distances. Use moderate lateral fixture spacings to control cross-lighting. For large surfaces, use moderate spacings between fixtures to attain a uniformity ratio of between 5:1 and 7:1. *Watch out for window locations, as this effect can produce offensive glare to building occupants.*

Single Fixtures



Decreasing Setback Distances will produce deeper shadowing effects.

Multiple Fixtures

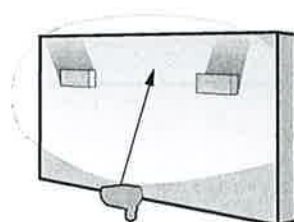


Utilize moderate fixture spacing to control cross-lighting and attain a minimum **6:1 Uniformity Ratio**.

Surface Texturing

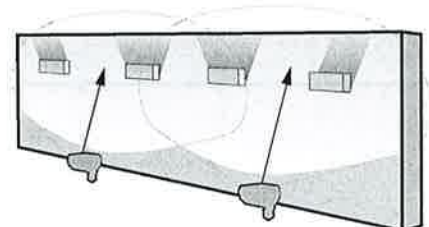
Grazing is used when the desired effect is to dramatically accentuate surface texture and detail. Grazing is accomplished by placing fixtures very close to the surface to be lighted and utilizing very high aiming angles. Kim Horizontal Spot reflectors are specifically designed for this application. To soften the effect, increase setback distances slightly. For large areas, use moderate spacings between fixtures to attain a uniformity ratio of between 5:1 and 7:1. *Watch out for deep reliefs and surface detailing, which can create undesirable shadows on the building surface. Consider using fixed hoods to reduce visibility of the fixture lens(es).*

Single Fixtures



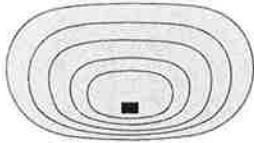
Minimize Setback Distances and maximize aiming angles. The closer the fixtures are to the surface, the greater the surface texture will be accentuated

Multiple Fixtures



Utilize moderate fixture spacing to control cross-lighting and attain a minimum **6:1 Uniformity Ratio**.

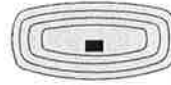
Application Guide



Wide Flood
CFL1
AFL11
AFL21



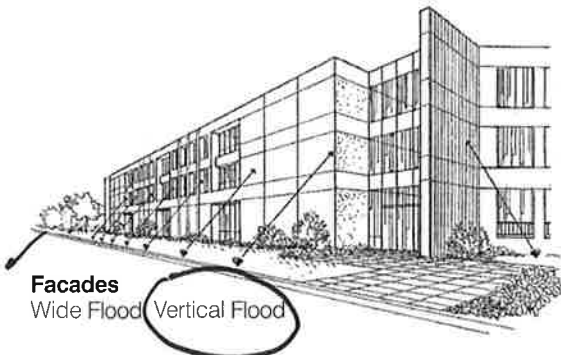
Vertical Flood
AFL12
AFL22



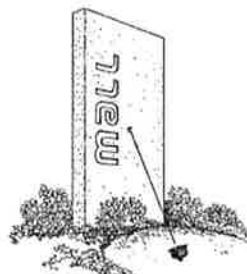
Medium Flood
AFL13
AFL23



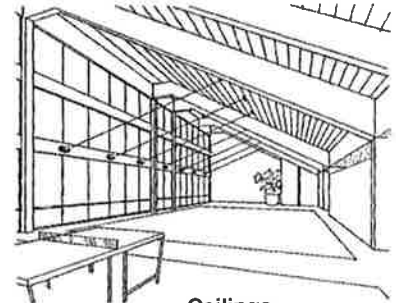
Narrow Flood
AFL14
AFL24



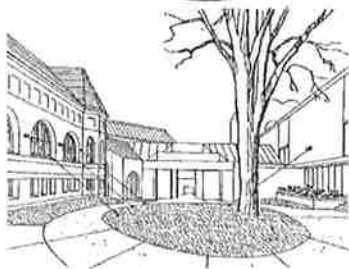
Facades
Wide Flood, Vertical Flood



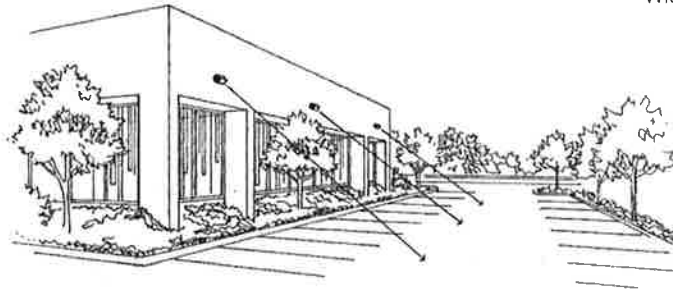
Signs
Vertical Flood



Ceilings
Wide Flood



Courtyards
Wide Flood, Vertical Flood



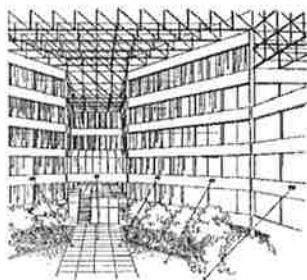
Parking Lots
Wide Flood, Vertical Flood



Walls
Wide Flood, Medium Flood



Driveways
Medium Flood, Narrow Flood



Atriums
Medium Flood



General Areas
Wide Flood, Medium Flood

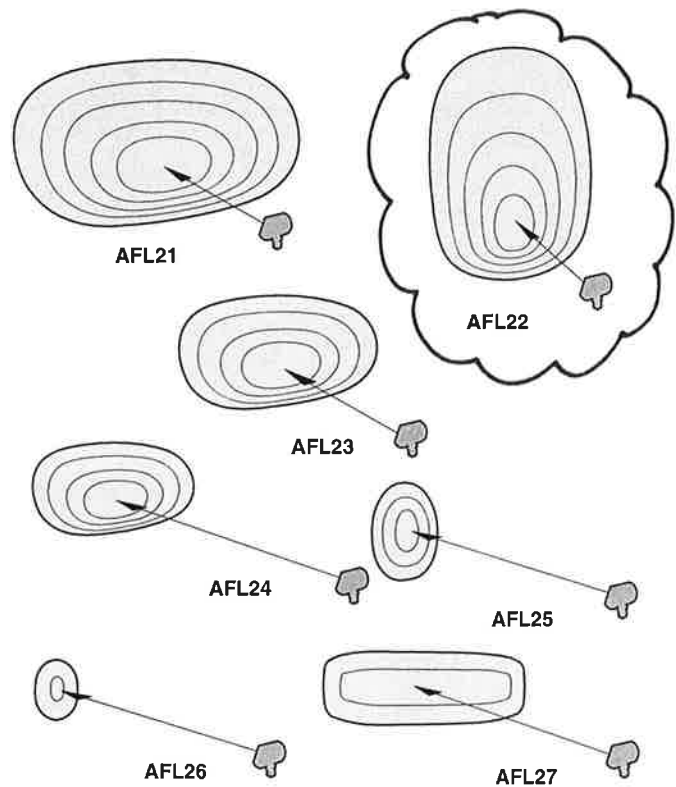
AFL20

WALL WASHER LIGHTS

Important Features

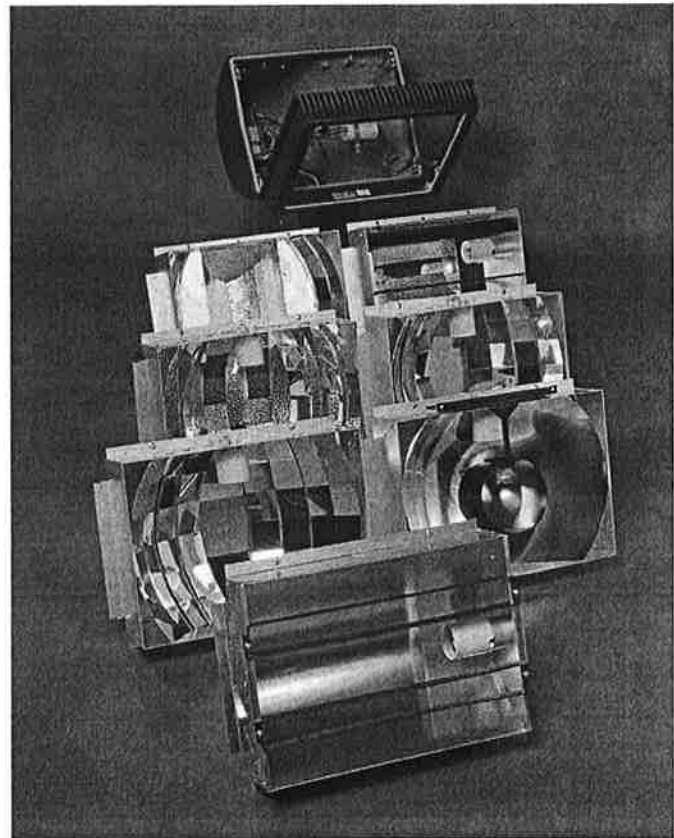
Seven Beam Patterns

The nature of floodlighting mandates versatility. The tremendous variety of surfaces and objects to be illuminated is further complicated by variables like fixture location and distance. The **AFL20** Series satisfies this need for flexibility: Seven available beam patterns can be used individually or in combinations to illuminate any object from distances of 10' to 150' - from the **AFL21** Wide Flood to the laser-like accuracy of the **AFL26** Narrow Spot reflector. The **AFL22** Vertical Flood has a unique optical design that is ideal for lighting both vertical and horizontal surfaces with very low brightness above the main beam. All seven beam patterns are the result of precision Kim reflector systems that generate high efficiencies and outstanding uniformity of illumination. See pages 60-61 for beam properties and application guidelines.



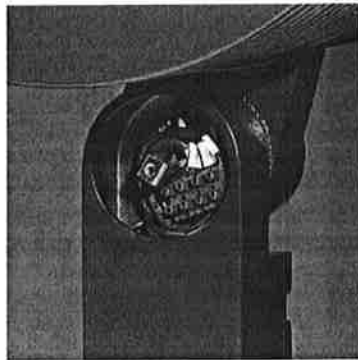
Die-Cast Housing with Interchangeable Optics

The **AFL20** Series housing and door frame are precision die-castings with integral cooling ribs that dissipate heat allowing the electrical components to operate well below their allowable limits. A single housing will accept any of the seven optical systems which are easily interchangeable on the job. Because floodlighting is as much art as it is science - final adjustments to the lighting effect may occasionally require changes of the beam pattern. To accomplish this, the door frame is opened and removed with slip hinges allowing easy access to the reflector module. Each reflector module is a one-piece assembly retained by four captive screws around a perimeter flange. Changing beam patterns is a simple task, and provides the **AFL20** Series with flexibility for fine-tuning projects on the jobsite.

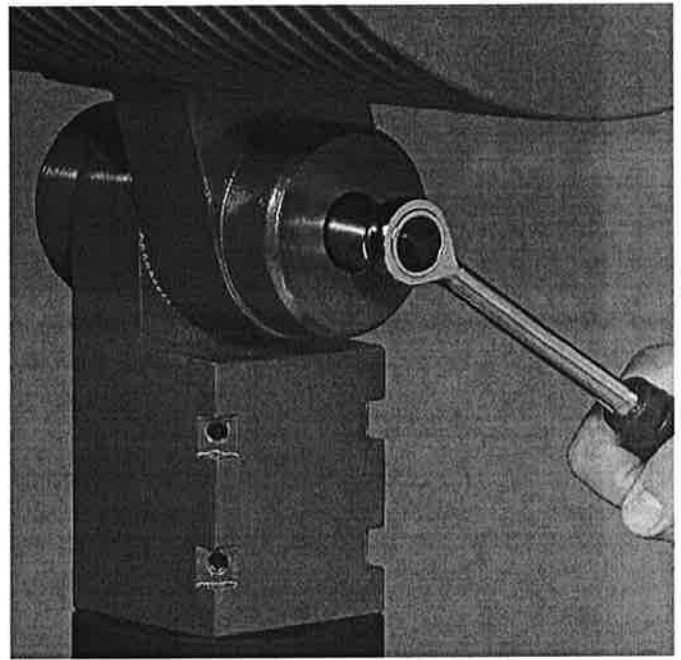


Multi-Function Swivel

The **AFL20** swivel is constructed of heavy cast aluminum with locking teeth, and accomplishes three tasks: First it allows fixture aiming in the vertical plane by loosening a single recessed stainless steel bolt and setting locking teeth with 5° intervals. Second, it provides a field-splice compartment accessible through the opposite knob from the aiming adjustment. Third, the swivel slipfits a standard 2" tenon (see page 68), and is secured with four heavy duty stainless steel socket head set screws.



Field-splice compartment integrated into swivel design.

**Vandal Protection**

An optional Lexan® vandal resistant lens shield is available for applications where vandalism is anticipated.

NOTE: The lens shield is made from an advanced polymer, Lexan® Resin from GE Advanced Materials. Lexan® dramatically reduces lens yellowing and becomes stable within the first 100 hours of operation. Lexan® offers significantly greater retained impact and vandal resistance during the life of the lens.

CAUTION: Use only when vandalism is anticipated.



AFL-LS2 Lexan® Lens Shield

Optical Control

The AFL20 Series has a variety of optical accessories to control glare and increase the visual effectiveness of the lighting scheme. Shielding devices are carefully engineered to prevent shadows and preserve beam efficiency while reducing undesirable transient brightness. **Barn Doors** are a familiar accessory that allow for field-adjustable glare shielding. The **Fixed Hood** is a moderate shielding device and the **Full Shield** is a complete shielding device. Both are ideally suited for applications close to walkways, driveways, or roadways. **Grid Louvers** are engineered to maximize beam efficiency while minimizing glare and shadows from the internal vanes. Two types of louvers are available, one for use with the **AFL24**, and the other for use with the **AFL25** and **AFL26**. The **Lexan® Lens Shield** is available for applications where vandalism is anticipated. The **Color Filter Assembly** is designed to be used alone or in conjunction with the **Barn Doors**, **Fixed Hood**, or **Full Shield**. Dynamic floodlighting effects are possible by utilizing any of the color filters specifically engineered for use in high temperature floodlighting applications. See page 69 for details.



BD2 Barn Doors



FH2 Fixed Hood



GL8 Grid Louver



GL9 Grid Louver



FS2 Full Shield



AFL24 w/Color Filter Assembly

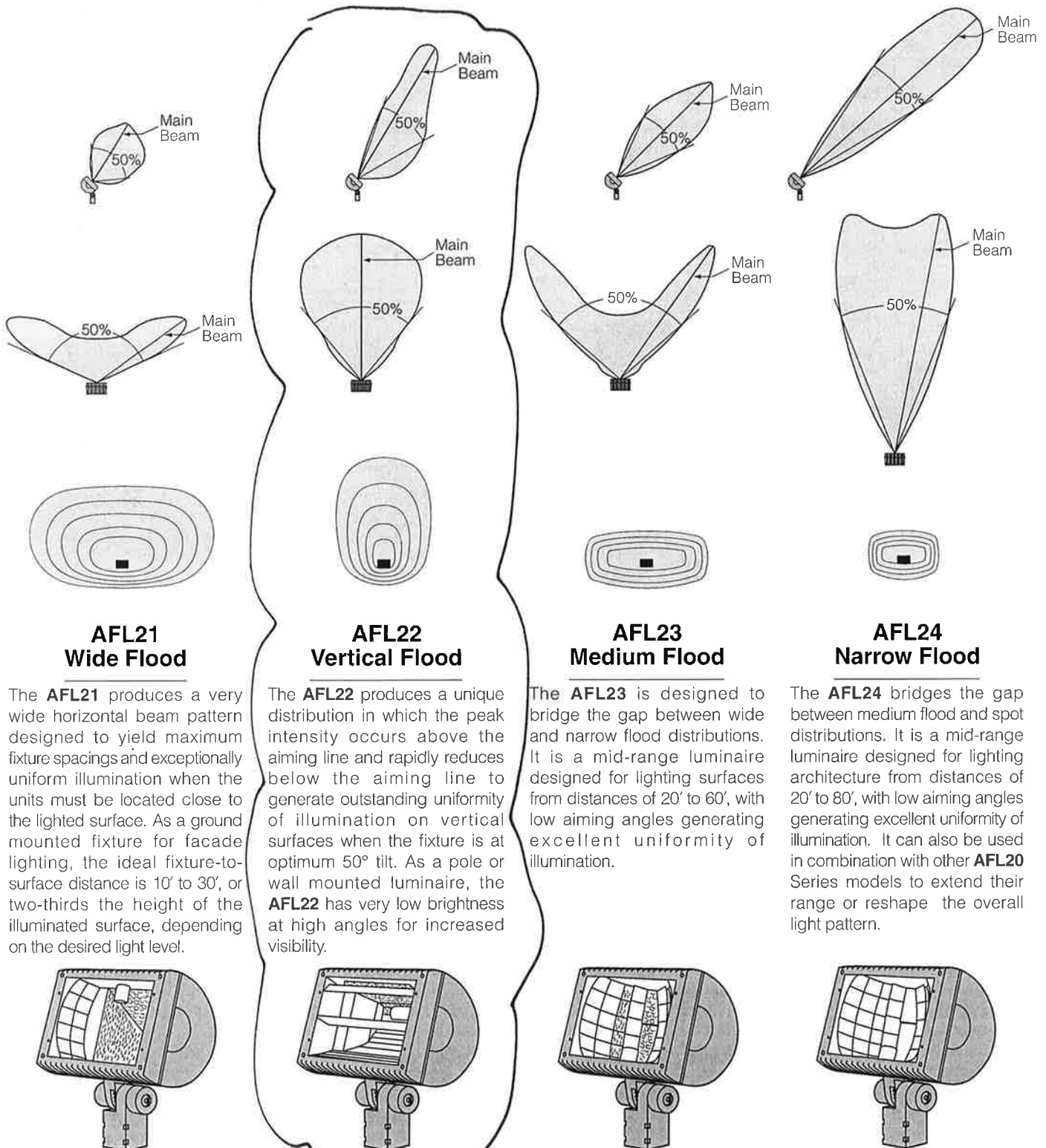


Color Filters

AFL20

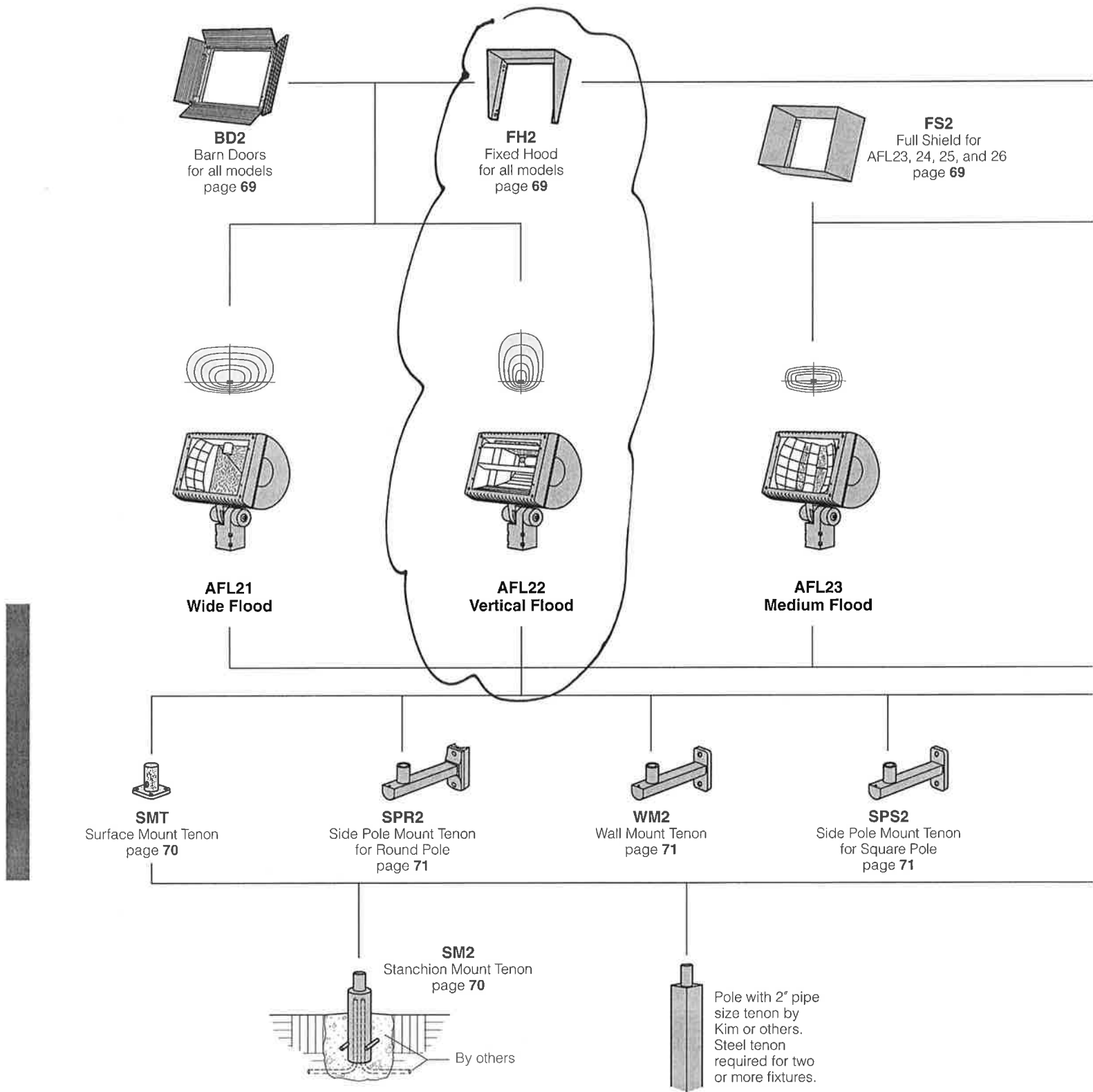
Beam Properties

These illustrations are representations of the beam spreads produced by each optical system. They are intended to help you visualize the performance differences between each model without having to analyze photometric charts. **AFL21** through **AFL25**, and the **AFL27** beam patterns are shown in identical scale. The **AFL26** beam pattern is shown at ½ scale due to page constrictions.



AFL20

Product Structure



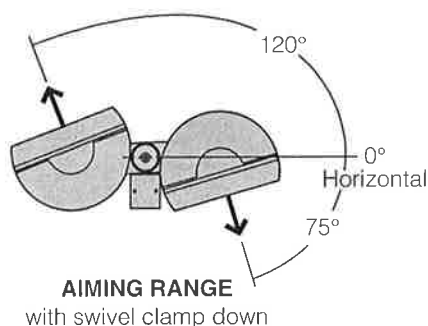
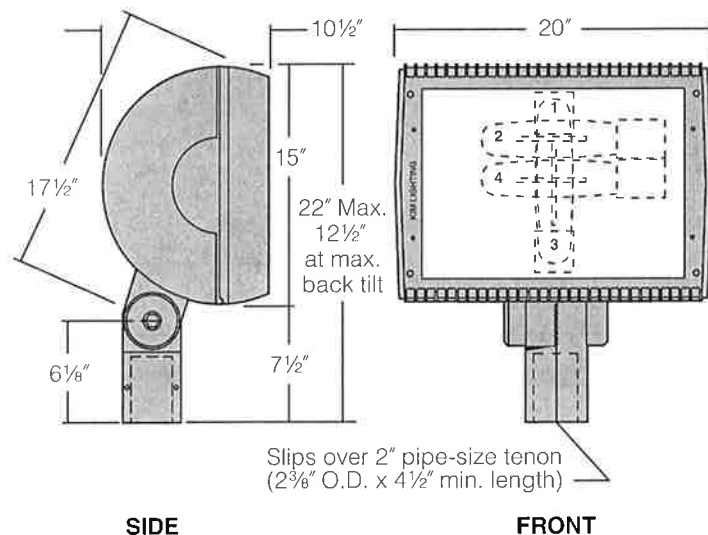
AFL20

Luminaire Specifications

Dimensions

AFL20 Models
250 to 400 watt H.I.D.
Mogul Base Lamps

EPA: 1.3 (45° tilt)
2.3 (Face on)
Maximum weight: 49 lb



Aiming line is always perpendicular to front face of fixture

- 1 AFL21 lamp position (base up)
- 2 AFL22 lamp position
- 3 AFL23, 24, 25, 26 lamp position (base down)
- 4 AFL27 lamp position

Housing: One-piece die-cast, low copper (<0.6% Cu) aluminum in a cylindrical shape with integral cooling fins over the entire length, and 1/8" minimum wall thickness. One-piece extruded and vulcanized silicone gasket between housing and door frame concealed when fixture is closed. Concealed integral cast slip hinges with stainless steel pins.

Door Frame: One-piece die-cast, low copper (<0.6% Cu) aluminum with integral cooling fins, 1/8" minimum wall thickness, mates with housing to create a continuous cylindrical shape. Concealed integral cast slip hinges allow removal without tools. Removable stop-arm provided to limit door frame opening. 3/16" thick clear tempered glass lens is sealed to the lens frame by a one-piece molded silicone gasket. Door frame secures to housing by four stainless steel recessed captive allen-head screws. Four tapped and plugged holes provided for attachment of options.

Swivel: Heavy cast aluminum twin knob configuration with integral field-splice compartment, and mounts to a 2" pipe size tenon (2 3/8" O.D. x 4 1/2" min. length). One stainless steel bolt, recessed in knob, locks swivel teeth at 5° increments. Opposite knob is removable for access to the field-splice compartment. Swivel is fully gasketed. Clear anodized prior to chromate conversion coating for added corrosion resistance.

Reflector Assemblies: Interchangeable in all seven AFL20 models. Specular Alzak® aluminum optical components rigidly mounted in a clear anodized aluminum frame which attaches to housing as a one-piece assembly. Sockets are 4KV porcelain mogul base.

Electrical Components: All electrical components are UL and CSA recognized with leads extending out of the swivel splice compartment. High power factor ballast rated -40°F starting for HPS and -20°F for MH lamp modes. See lamp and electrical data on pages 96-98 for ballast types and characteristics.

Finish: Super TGIC thermoset polyester powder coat paint, 2.5 mil nominal thickness, applied over a Titanated Zirconium conversion coating; 2500 hour salt spray test endurance rating. Standard colors are Black, Dark Bronze, Light Gray, Platinum Silver or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

CAUTION: Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury.

| Listings and Ratings | |
|----------------------|----|
| UL cUL 1598 | — |
| IP66 Rated | CE |

Optional Photocell (A30 - A35): Ordered assembled with fixture. Factory installed with flush sensor on side of housing. Select photocell with same line volts as fixture.

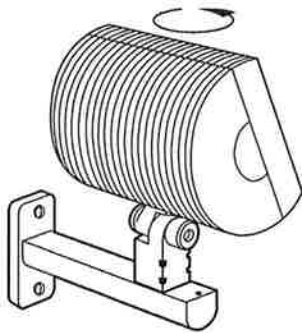
CAUTION: Use only in locations where adjacent lighting will not affect operation of photocell.

AFL20

Aiming Ranges



Reference symbol for fixture aiming range when mounted on the option as shown. This range is in the vertical plane and does not necessarily apply to all conditions. See page 68 for full aiming range without mounting options.

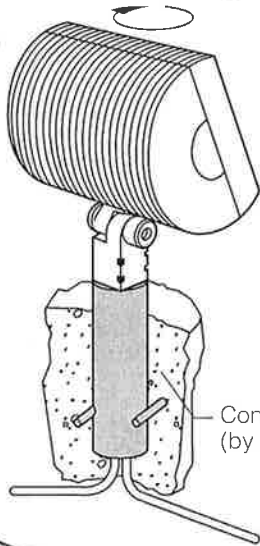


Swivel

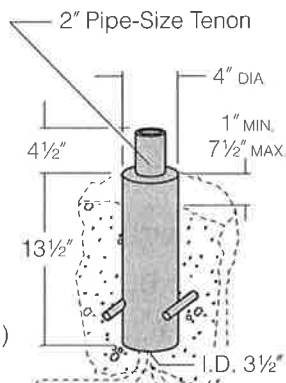
The standard heavy duty swivel mounted on either the **SM2**, **SMT**, **WM2**, **SPS2**, **SPR2-X**, **MTM-2B**, **MTM-3E**, or **pole top tenon**, provides aiming between **-120° to 75°** off horizontal.

Mounting Option Specifications

Ordered separately from fixture.
See pages 64-67 for complete ordering information.

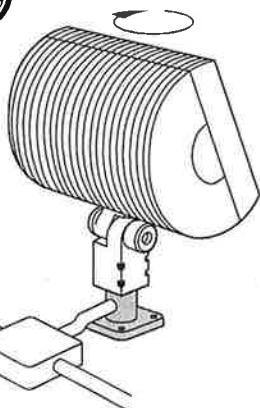


Concrete
(by others)



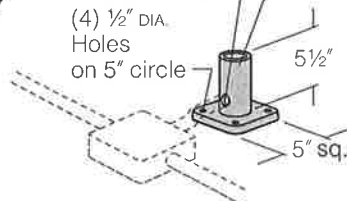
Stanchion Mount Tenon (SM2): 4" O.D. cast low copper (<0.6% Cu) aluminum stanchion with 2" pipe-size tenon (2 3/8" O.D., 1 3/8" I.D.) for mounting a single fixture or multiple top-mounts.

CAUTION: Multiple top-mounts must not be used in locations where people can climb on fixtures and mounting arms. To assure a rigid installation, Stanchion must be set in concrete (by others).



2" Pipe-Size Tenon

1/2" NPT
Conduit Entry
(4) 1/2" DIA.
Holes
on 5" circle



Surface Mount Tenon (SMT): 2" pipe-size tenon (2 3/8" O.D., 2" I.D.) welded to a cast aluminum plate. Plate has four 1/2" mounting holes, and tenon has one 1/2" NPT for side conduit entry.

NOTE: Not for use with **MTM-2B** or **MTM-3E** options. May be wall mounted if horizontal fixture adjustment is not required. For wall mounting with horizontal fixture adjustment, use **WM2** (see page 66).

AFL21 Wide Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ¹ | I.E.S. Type | Maximum Candlepower | Field Angle (10% of max.) | Beam Angle ² (50% of max.) | I.T.L. Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|--------------------------|---------------------------|---------------------------------------|-----------------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 250HPS E-18 clear mogul base | 250 | 30,000 | 7H x 6V | 11,580 (55.0°H x 15.0°V) | 146.8°H x 124.0°V | 132.0°H x 93.0°V | 34659 | 161 |
| 400HPS E-18 clear mogul base | 400 | 50,000 | 7H x 6V | 17,596 (56.3°H x 12.8°V) | 147.8°H x 128.0°V | 136.0°H x 100.0°V | 34660 | 161 |
| PULSE START METAL HALIDE | | | | | | | | |
| 250PMH ED-28 clear mogul base | 250 | 20,500 | 7H x 6V | 8,074 (55.0°H x 15.0°V) | 146.6°H x 126.0°V | 126.0°H x 87.0°V | 34661 | 161 |
| 400PMH ED-28 clear mogul base | 400 | 36,000 | 7H x 6V | 14,021 (55.0°H x 15.0°V) | 147.1°H x 126.0°V | 136.0°H x 101.0°V | 34662 | 161 |

¹All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

²Beam Angle: Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

AFL22 Vertical Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ¹ | I.E.S. Type | Maximum Candlepower | Field Angle (10% of max.) | Beam Angle ⁴ (50% of max.) | I.T.L. Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|--------------------------|---------------------------|---------------------------------------|-----------------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 250HPS E-18 clear mogul base | 250 | 30,000 | 6H x 4V | 20,000 (14.7°H x 15.8°V) | 118.0°H x 71.0°V | 80.0°H x 16.0°V | 34535 | 167 |
| 400HPS E-18 clear mogul base | 400 | 50,000 | 6H x 5V | 32,192 (11.6°H x 16.1°V) | 116.0°H x 71.0°V | 80.0°H x 28.0°V | 34541 | 167 |
| PULSE START METAL HALIDE | | | | | | | | |
| 250PMH ED-28 clear mogul base | 250 | 19,500 | 6H x 5V | 12,567 (18.0°H x 14.5°V) | 128.0°H x 80.8°V | 76.0°H x 33.0°V | 34543 | 167 |
| * 400PMH ED-28 clear mogul base | 400 | 36,000 | 6H x 5V | 19,896 (21.8°H x 14.7°V) | 128.0°H x 80.0°V | 86.0°H x 42.0°V | 34697 | 167 |

¹All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

⁴Beam Angle: Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

AFL23 Medium Flood Beam Spread Chart

| Lamp | Lamp Watts | Initial Lumens ¹ | I.E.S. Type | Maximum Candlepower | Field Angle (10% of max.) | Beam Angle (50% of max.) | I.T.L. Test No. | Iso Pg. |
|---------------------------------|------------|-----------------------------|-------------|--------------------------|---------------------------|--------------------------|-----------------|---------|
| HIGH PRESSURE SODIUM | | | | | | | | |
| 250HPS E-18 clear mogul base | 250 | 30,000 | 7H x 5V | 22,808 (41.6°H x -9.0°V) | 135.4°H x 99.9°V | 98.0°H x 43.0°V | 46389 | 173 |
| 400HPS E-18 clear mogul base | 400 | 51,000 | 7H x 6V | 35,215 (38.9°H x -8.9°V) | 137.1°H x 107.0°V | 100.0°H x 48.0°V | 46390 | 173 |
| PULSE START METAL HALIDE | | | | | | | | |
| 250PMH ED-28 clear mogul base | 250 | 21,000 | 7H x 5V | 18,251 (39.2°H x 0.3°V) | 132.3°H x 87.8°V | 96.0°H x 40.0°V | 46387 | 173 |
| 400PMH ED-28 clear mogul base | 400 | 36,000 | 7H x 5V | 30,468 (39.3°H x -1.6°V) | 134.1°H x 98.6°V | 96.0°H x 38.0°V | 46388 | 173 |

¹All Initial Lumen values shown are approximate and may vary from one manufacturer to another. Consult lamp manufacturer's data for exact lumen and life data.

NOTE: For lamp/ballast information outside of the U.S.A. and Canada, please consult your local Kim representative.

WARNING: All fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury. Lamps by others.



Architectural Floodlights Photometrics

50 - 400 Watt



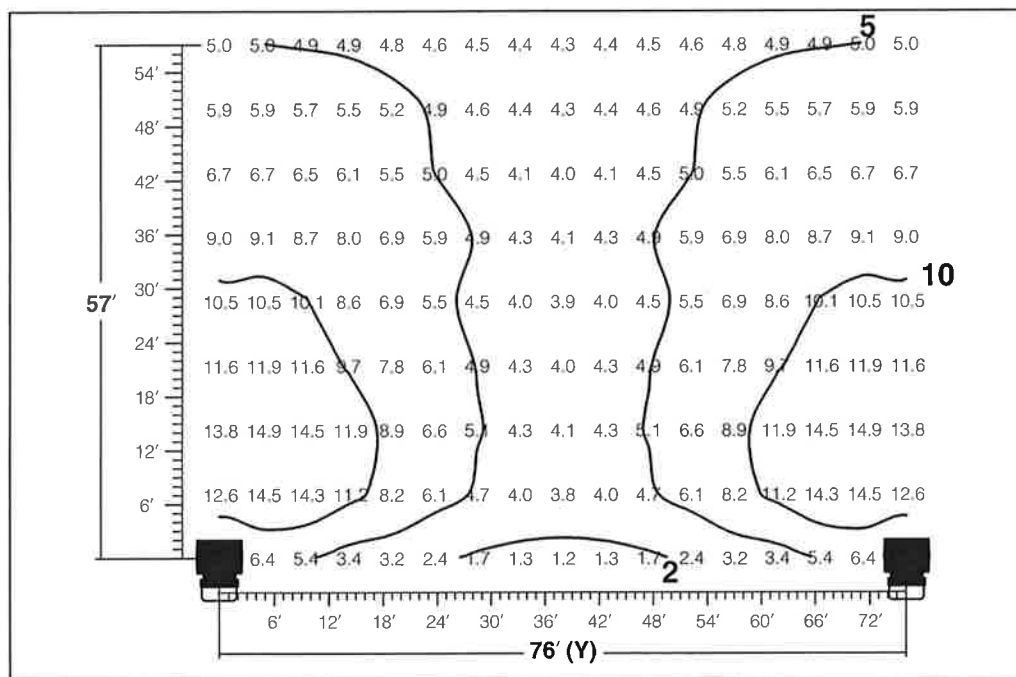
CFL



AFL10



AFL20



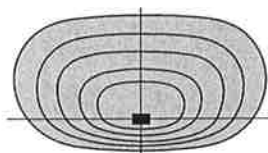
KIM LIGHTING

AFL Beam Properties at a Glance

System Approach

Wide Flood

CFL1 **pages 101-109**
 AFL11 **pages 119-123**
 AFL21 **pages 161-165**



Beam Shape

At 1 Fc, ratio of **W** to **H** at the indicated aiming angles

@ 10° Aiming Angle

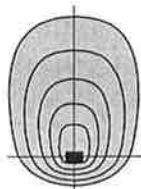
Ratio
1W : .68H

Applications

For illumination of walls and building facades that are wider than they are tall. Well suited for wall lighting from medium setback distances. Also, excellent for area lighting from perimeter pole or wall mount locations.

Vertical Flood

AFL12 **pages 125-129**
 AFL22 **pages 167-171**



Beam Shape

@ 40° Aiming Angle

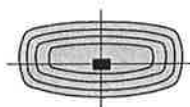
Ratio
1W : 1.63H

Applications

For illumination of walls and building facades that are taller than they are wide. Well suited for wall lighting from medium setback distances. Also, excellent for area lighting from perimeter pole or wall mount locations.

Medium Flood

AFL13 **pages 131-135**
 AFL23 **pages 173-177**



Beam Shape

@ 10° Aiming Angle

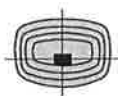
Ratio
1W : .72H

Applications

For illumination of walls and building facades that are short in height and wide laterally. Well suited for wall and sign lighting from medium setback distances.

Narrow Flood

AFL14 **pages 137-141**
 AFL24 **pages 179-183**



Beam Shape

@ 10° Aiming Angle

Ratio
1W : .85H

Applications

For illumination of surfaces from deeper setback distances. Well suited for highlighting signage and illumination of atriums from high ceiling locations, as well as large areas from high building mounted installation.

Spot

AFL15 **pages 143-147**
 AFL25 **pages 185-189**



Beam Shape

@ 5° Aiming Angle

Ratio
1W : 1.1H

Applications

For accent and highlighting of architectural features. Also, used for illumination of facades from great distances or extreme setback distances.

Narrow Spot

CFL6 **pages 110-116**
 AFL16 **pages 149-153**
 AFL26 **pages 191-195**



Beam Shape

@ 0° Aiming Angle

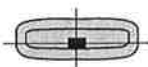
Ratio
1W : 1.2H

Applications

For highlighting and key spotlighting of selected architectural and landscape features. Well suited for illuminating very tall structures, grazing columns, and highlighting small objects from great distances.

Horizontal Spot

AFL17 **pages 155-159**
 AFL27 **pages 197-201**



Beam Shape

@ 0° Aiming Angle

Ratio
1W : .33H

Applications

Wide lateral and very narrow vertical pattern is specifically designed for grazing wall surfaces, as well as highlighting linear architectural detail.

CFL

Photometric System Design

Illuminance level required

Charts below show I.E.S. recommended illuminance in Average Maintained Footcandles. These values correspond to the values on each Isofootcandle diagram on the following "Isofootcandle Diagram" pages. Refer to the beam spread charts on page 26.

| Floodlighting | | | Parking Lot Lighting | | |
|--|-----------------------------|------|----------------------|-----------------------------|---------------------|
| Surface Material Examples See page 244 for average surface reflectance values. | Surrounding Light Level | | Level of Activity | Vehicular Traffic | Pedestrian Security |
| | Bright | Dark | | Avg. Maintained Footcandles | |
| | Avg. Maintained Footcandles | | | | |
| Light marble, white or cream terra cotta, white plaster | 15 | 5 | Low | 0.5 | 0.8 |
| Concrete, tinted stucco, light gray and buff limestone, buff face brick | 20 | 10 | Medium | 1 | 2 |
| Common tan brick, sandstone, medium gray limestone | 30 | 15 | High | 2 | 4 |
| Common red brick, stained wood, dark gray brick | 50 | 20 | | | |

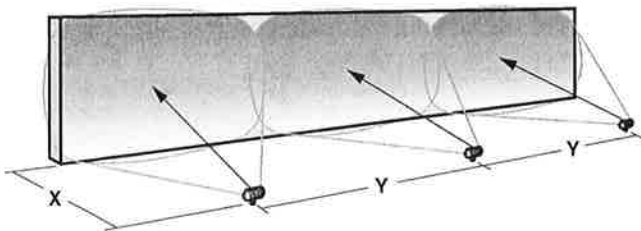
Uniformity of Illumination

Dimension **X** is obtained directly from the isofootcandle diagram. Listed **X** dimensions represent the optimum range for that lamp and wattage. Dimension **Y** (fixture spacing) is simply a multiple of **X** obtained by figuring the longitudinal distance to the next fixture. The next fixture is located where its light pattern intersects the previous fixture as illustrated above.

Refer to individual lateral spacing information for specific fixtures for details on determining spacing **Y** for various mounting distances **X**.

NOTE: All areas of uniformity are based on a lighting system, not individual fixtures. Therefore areas of uniformity are calculated assuming contributions from adjacent fixtures.

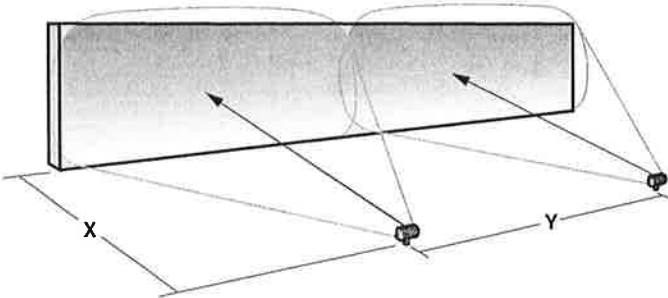
Facade, Wall, or Sign



For facade, wall, or sign lighting, optimum visual uniformity is achieved when the maximum-to-minimum illumination is no greater than **3:1**.

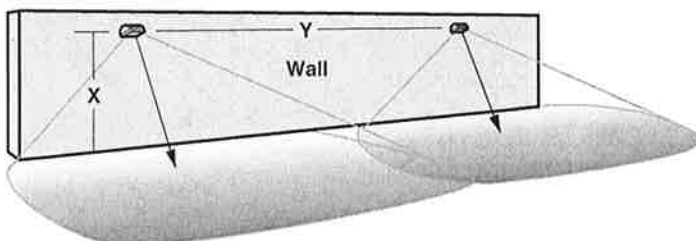
Example:
If **X** = 10', **Y** would = 30'

Facade, Wall, or Sign



For facade, wall, or sign lighting where a slight noticeable drop in illumination between fixtures is acceptable, use **6:1** uniformity.

Example:
If **X** = 10', **Y** would = 60'



For parking lot or area lighting, a **12:1** maximum-to-minimum uniformity will provide excellent results.

Example:
If **X** = 10', **Y** would = 120'

¹ All Initial Lumen values shown are approximate and may vary from one manufacturer to another.

Consult lamp manufacturer's data for exact lumen and life data.

² **Beam Angle:** Horizontal and vertical beam spreads interpolated due to no valid I.E.S. standard.

Isocandela Diagrams

Vertical Flood

250 watt High Pressure Sodium

E-18 clear mogul base

I.T.L. Test No. 34535

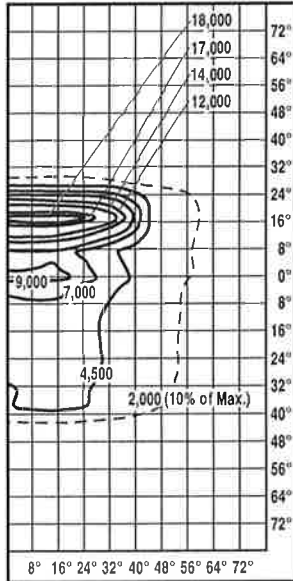
30,000 initial lumens¹

ANSI Code S-50

I.E.S. Type: 6H x 4V

Field Angle: 118.0° H x 71.0° V
(10% max.)

Beam Angle²: 80.0° H x 16.0° V
(50% max.)



400 watt High Pressure Sodium

E-18 clear mogul base

I.T.L. Test No. 34541

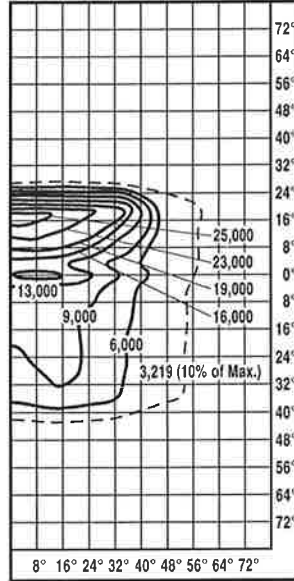
50,000 initial lumens¹

ANSI Code S-51

I.E.S. Type: 6H x 5V

Field Angle: 116.0° H x 71.0° V
(10% max.)

Beam Angle²: 80.0° H x 28.0° V
(50% max.)



250 watt Metal Halide

BT-28 clear mogul base

I.T.L. Test No. 34543

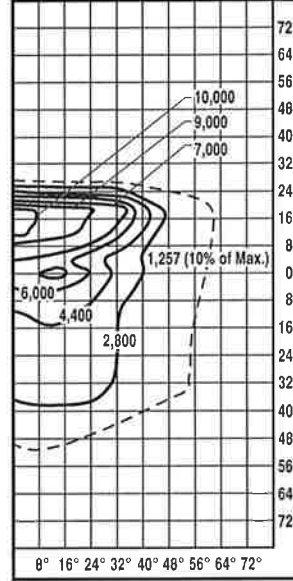
19,500 initial lumens¹

ANSI Code M-58

I.E.S. Type: 6H x 5V

Field Angle: 128.0° H x 80.8° V
(10% max.)

Beam Angle²: 76.0° H x 33.0° V
(50% max.)



400 watt Metal Halide

ED-28 clear mogul base "reduced outer jacket"

I.T.L. Test No. 34697

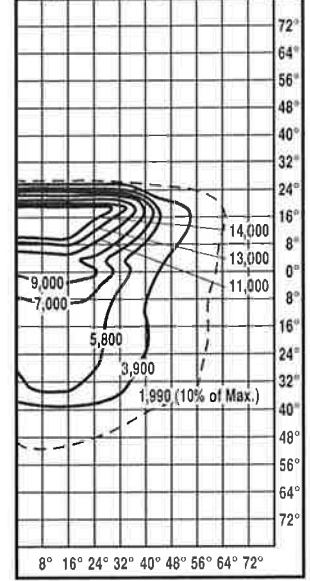
36,000 initial lumens¹

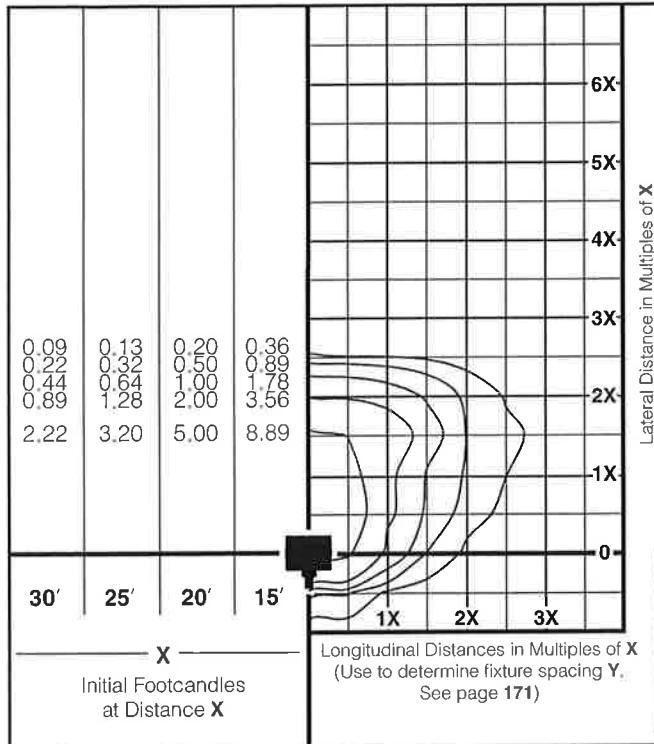
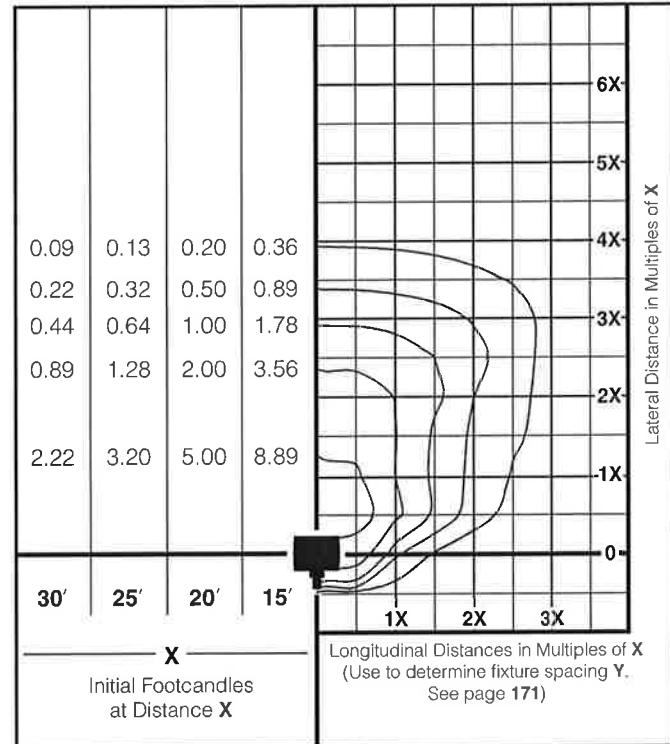
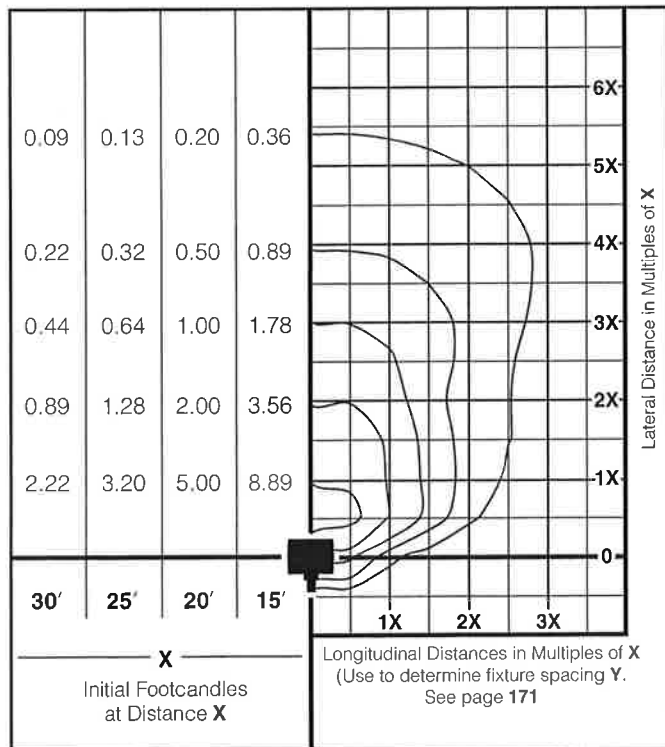
ANSI Code M-59

I.E.S. Type: 6H x 5V

Field Angle: 128.0° H x 80.0° V
(10% max.)

Beam Angle²: 86.0° H x 42.0° V
(50% max.)

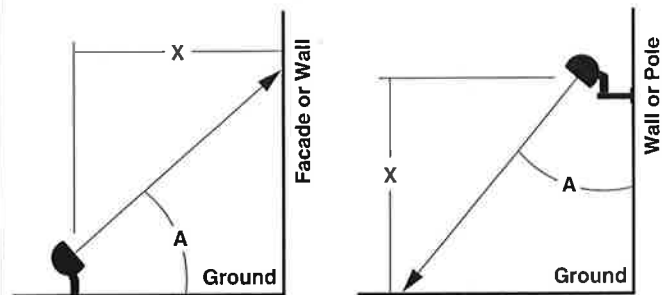


AFL22**Vertical Flood****400MH Isofootcandle Diagrams****400 watt Metal Halide @ 40° Aiming Angle****400 watt Metal Halide @ 50° Aiming Angle****400 watt Metal Halide @ 60° Aiming Angle****PRORATING CHART**

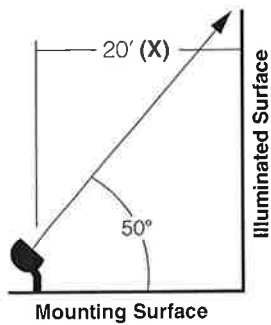
Isofootcandle diagrams shown with 400 watt Metal Halide lamp use the following prorating multipliers for other wattages:

| Lamp | Initial Lumens | Factor |
|-------|----------------|--------|
| 400MH | 36,000 | 1.000 |
| 250MH | 19,500 | 0.542 |

Aiming Angle (A) see individual diagrams



400MH Lateral Spacing

Vertical Flood**AFL22/400MH**

ED-17 clear medium base

I.T.L. Test No. 34547

36,000 initial lumens

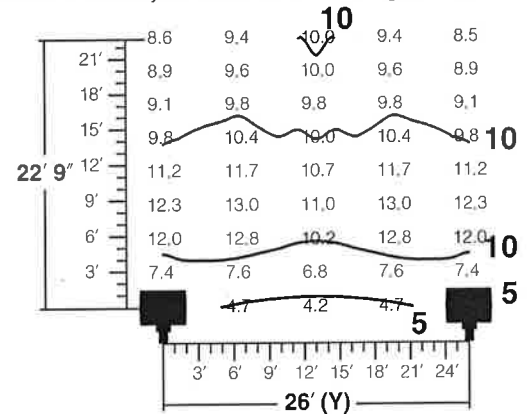
ANSI Code M-59

To calculate spacing (Y) for Setback Distances other than 20' shown, multiply actual Setback Distance (X) by the following:

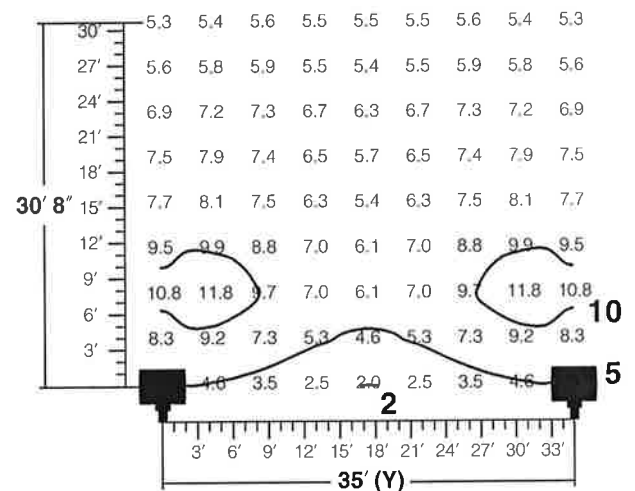
| Uniformity Ratio | Factor |
|------------------|--------|
| 3:1 | 1.30 |
| 6:1 | 1.75 |
| 12:1 | 2.20 |

Example: 21' Setback, **6:1** desired uniformity, $Y = 21' \times 1.75$ or **36.75' (36' 9")**

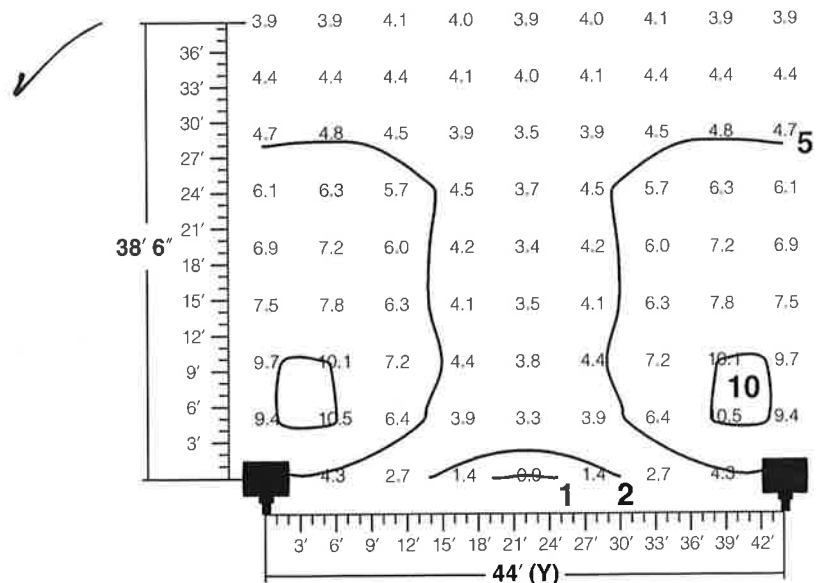
Use for optimum visual uniformity on facades, walls or signs

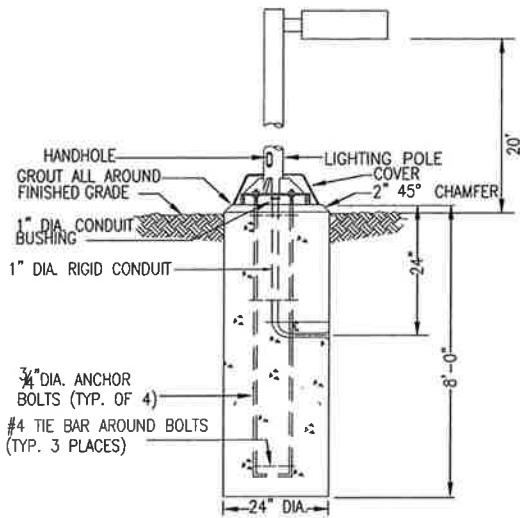
3:1

Use where a slightly noticeable drop in uniformity is acceptable

6:1

Use for area lighting where maximum spacing is desired

12:1



② POLE/BASE DETAIL
NOT TO SCALE

① ELECTRICAL SITE PLAN
SCALE: 1"=30'-0"

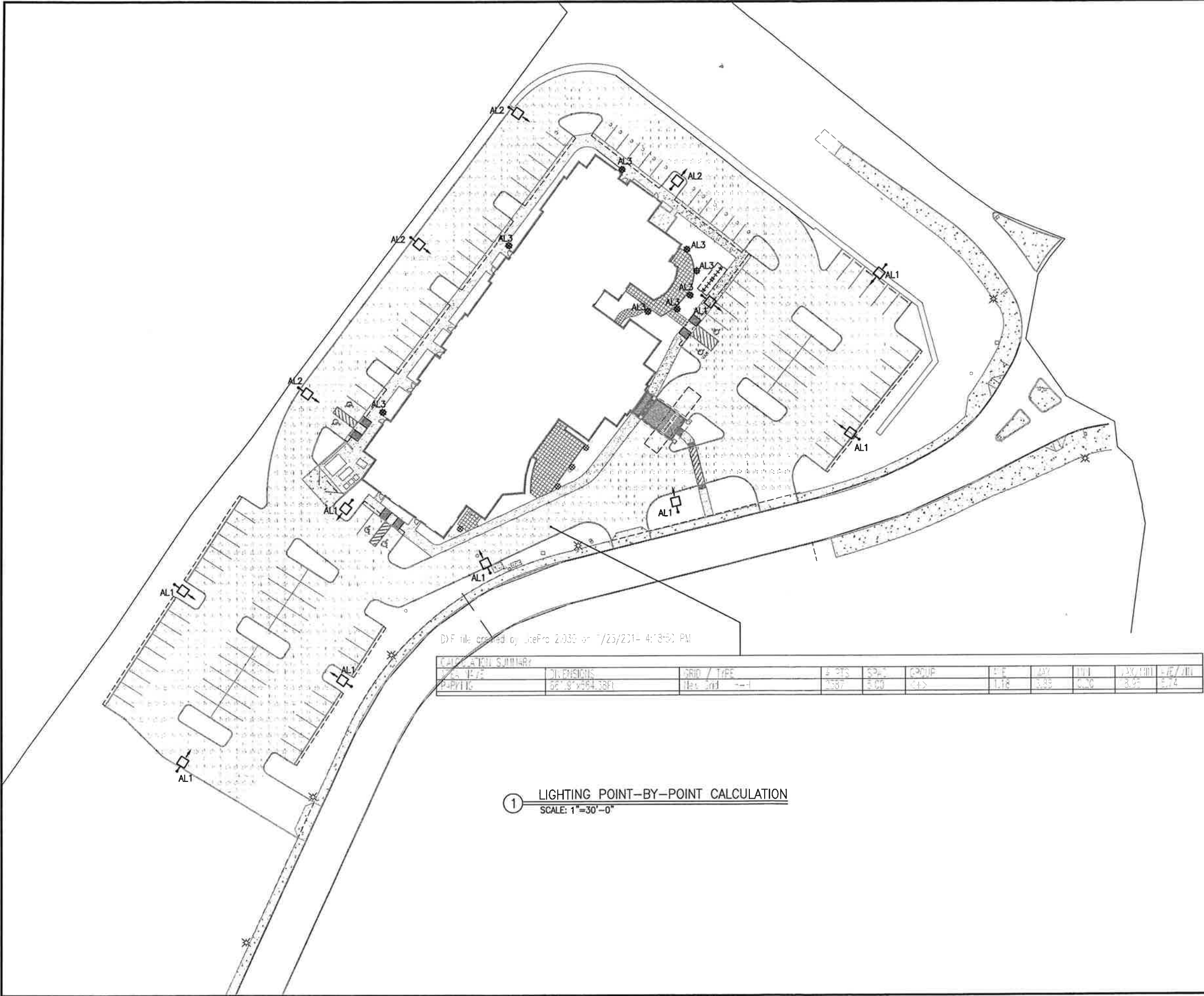
| ELECTRICAL LEGEND | |
|----------------------|--|
| SYMBOL | DESCRIPTION |
| LIGHTING | |
| | SINGLE POLE PARKING LOT SINGLE HEAD LIGHT FIXTURE (ARROW INDICATES DIRECTION OF AIMING FOR OPTICS) |
| | WALKWAY BOLLARD LIGHT FIXTURE |
| EQUIPMENT AND WIRING | |
| | DEDICATED CONDUIT HOMERUN TO PANEL & CIRCUIT NUMBERS AS INDICATED ON PLANS |
| | RACEWAY CONCEALED UNDERGROUND OR UNDER FLOOR SLAB |
| | MARKS INDICATE NUMBER OF #12 AWG UNLESS NOTED OTHERWISE |
| | GROUNDING CONDUCTOR |
| MISCELLANEOUS | |
| ① | CONSTRUCTION NOTE |

CONSTRUCTION NOTES

- ① COORDINATE HOME-RUN DESTINATION WITH HOTEL ELECTRICAL DESIGN.
- ② COORDINATE FIXTURE LOCATION WITH UNDERGROUND VAULT.

GENERAL NOTES FOR LIGHTING FIXTURE SCHEDULE

| LIGHTING FIXTURE SCHEDULE | | | | | | |
|---------------------------|--|--|-------|------|-----|--|
| SYMBOL | FIXTURE DESCRIPTION | MANUFACTURER/MODEL # | LAMPS | V | W | MOUNTING & REMARKS |
| AL1 | SINGLE HEAD POLE TOP AREA LIGHT FIXTURE WITH TYPE 4 DISTRIBUTION | SPAULDING LIGHTING# CL1-A-60L-U-4K-4-XX-BC | LED | 120V | 140 | MOUNT FIXTURE AT 20'. POLE: SSS-20-40-1-AX-XX. COORDINATE POLE AND FIXTURE COLOR WITH ARCHITECT PRIOR TO ORDERING. |
| AL2 | SINGLE HEAD POLE TOP AREA LIGHT FIXTURE W/ TYPE 3 DISTRIBUTION AND BACKLIGHT CONTROL | SPAULDING LIGHTING# CL1-A-60L-U-4K-3-XX-BC | LED | 120V | 140 | MOUNT FIXTURE AT 20'. POLE: SSS-20-40-1-AX-XX. COORDINATE POLE AND FIXTURE COLOR WITH ARCHITECT PRIOR TO ORDERING. |
| AL3 | 3' LED BOLLARD WITH INTERNAL LOUVER | SPAULDING LIGHTING# TMS-12LU-5K-IL-U-XX-36 | LED | 120V | 31 | COORDINATE FIXTURE COLOR WITH ARCHITECT PRIOR TO ORDERING. |



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HILTON
GARDEN INN
OLYMPIA, WA.

SITE LIGHTING
PLAN

DRAWN BY: SW

CHECKED BY: BH

REVISIONS:

DRAWING No.

E102

DATE: 01-29-2014
CONSTRUCTION SET
PROJECT No. 213-115

Reduced (11x17 plans)

Hilton Garden Inn

Olympia, Wa





The stucco we propose is a hybrid system. This is not EIFS. The assembly consists of a layer of cement board over the sheathing. Mesh and cement are then troweled over the cement board. The final coat of cement is a synthetic elastomeric cement product that has integral color and has elastomeric properties that resist cracking. We will choose a color that is dark and complementary with the brick color. Using this system provides the opportunity to add additional depth around the windows by installing foam trim. The trim can be built out to a depth and form as shown on the renderings. The trim will be covered with the same elastomeric stucco and will be integral with the overall finish. The cladding system we are proposing is a pre-engineered system that we have used on past projects. It will be installed per the product manufacturers specifications and comes with a full warranty from the manufacturer.

Comments were made by the Design Review Board that we could make the design better if we gave more architectural interest to the tower element at the stair. We researched buildings that are visible from the I-5 corridor near our site and discovered an old brewery building is visible nearby. As a call back to the heritage of Olympia and Tumwater we have taken some architectural cues from this important building. We are not attempting to copy this building, but rather incorporate a couple of elements that will capture the flavor of the area. Since our building will be visible from the freeway, we have elected to keep the pitched roof on the tower. The flat roof of the main building is also an element of the old brewery building that we will maintain on our building. Also to add architectural interest, we have designed the tower with recessed niches that represent windows.

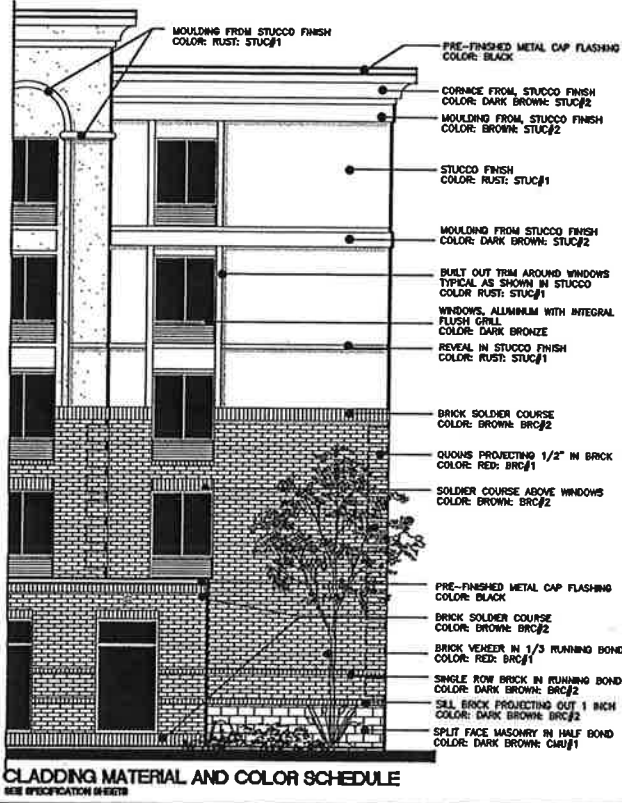
Revised roof lines. Future context of the site will likely be more commercial buildings, hotels, restaurants etc. We propose a flat roof since this is more likely to be the type of roof typical in a commercial zone. This has the benefit of reducing the overall height of the building. Removal of the pitched roof and gables will result in an overall lower building height. The flat roof allows us to add a cornice around the building and we can vary the height of the cornice to provide more architectural interest

See enlarged elevation for
specification of cladding.
Materials and colors

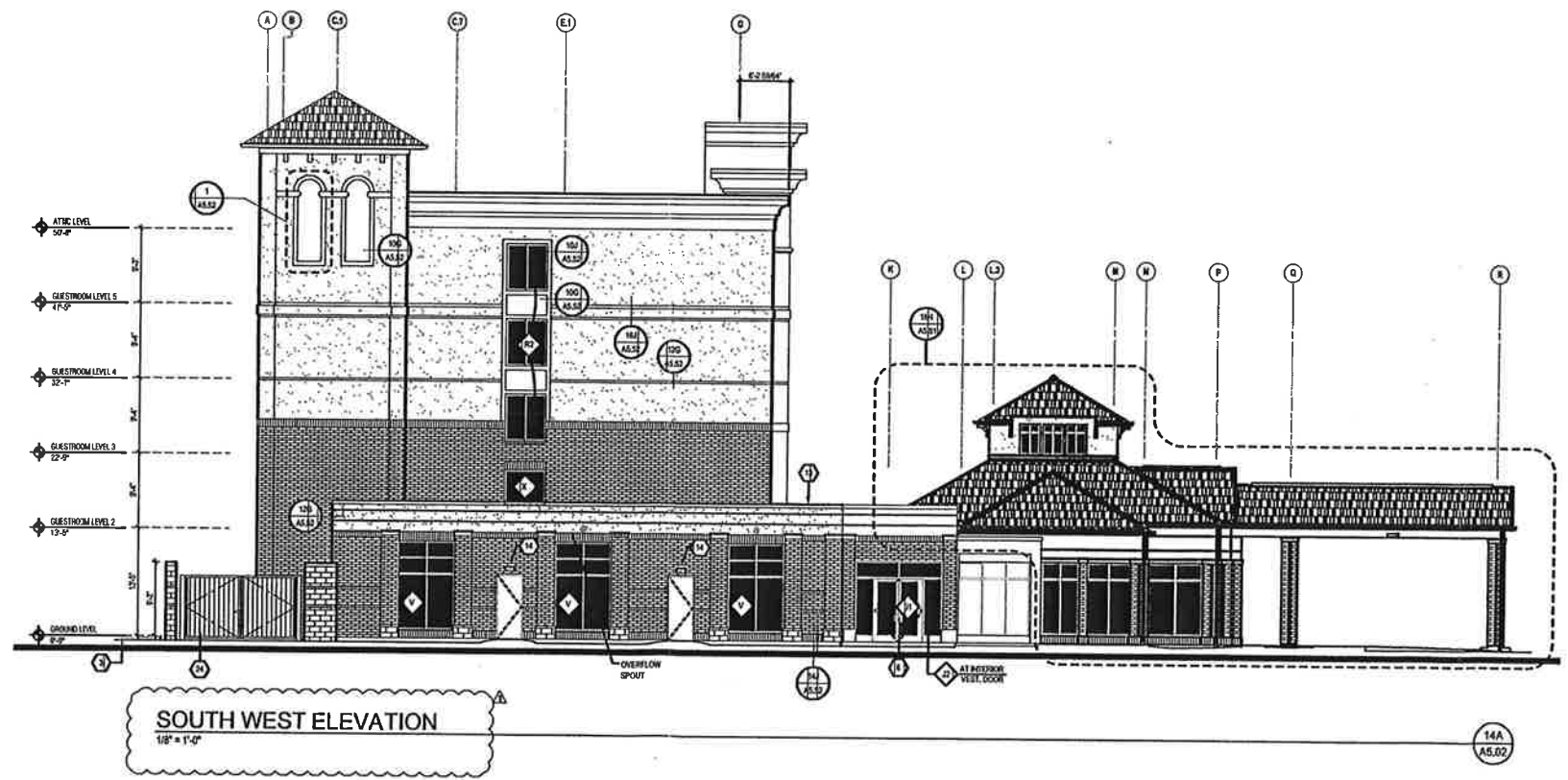
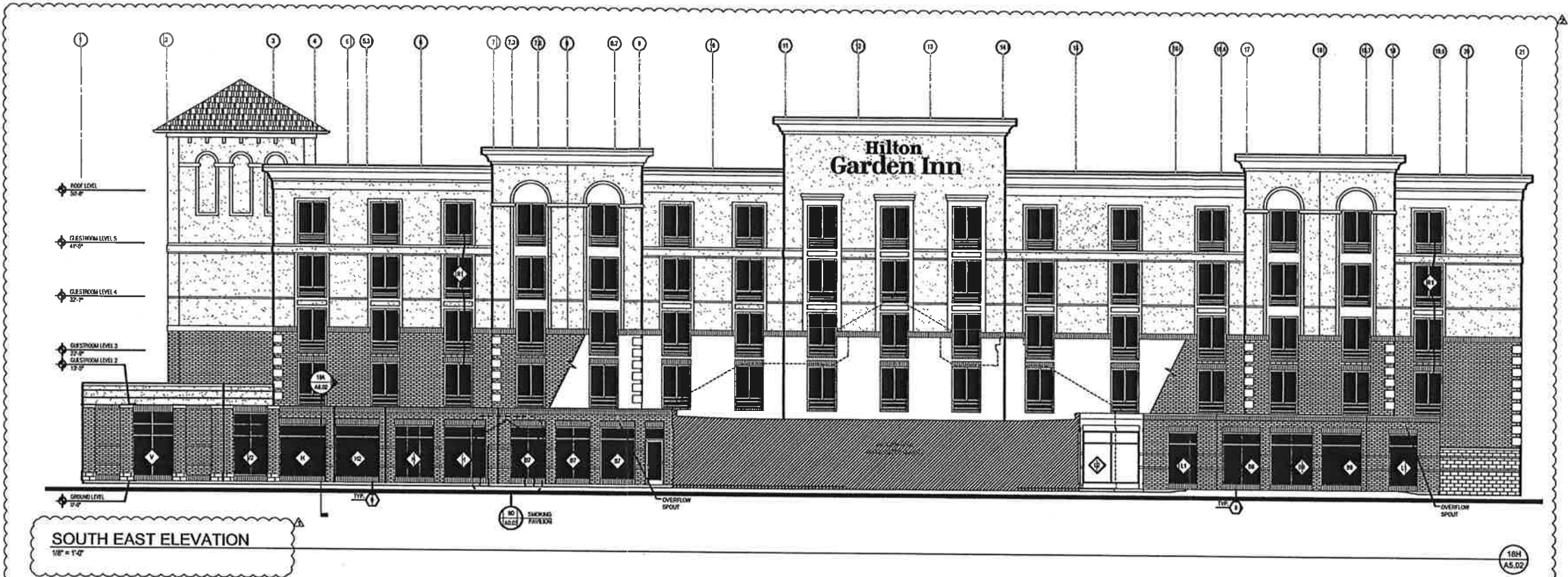
We propose to use brick veneer on the base of the building. The brick will extend to a height of $2\frac{1}{2}$ stories. Above the brick we propose to use stucco finishes. By using stucco, we have the opportunity to add architectural trim around the windows. Building out around the windows allows us to add elements that are similar to the windows in the old brewery building. Stucco gives us more opportunity to add arches and other elements that are difficult to do with wood siding.

To give more interest to the the building at the pedestrian level, we propose to use different colors of brick. The base coursing will be a larger concrete block with heavy texture. There is a soldier course of brick above the cmu that is dark grey. The body of brick will be dark red. The soldier courses above the windows will be dark grey. Also we will have quoins at the corners of the building. The quoins will protrude from the body of the brick and add shadows and additional texture.

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COMMUNITY PLANNING &
DEVELOPMENT DEPT



EXTERIOR ELEVATIONS



- KEY NOTES:**
- 1. COLORED ASPHALT SHINGLE ROOF SYSTEM
 - 2. EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)
 - 3. FINISH FLOOR
 - 4. ALUMINUM CLADDING SYSTEM - LAMINATE FINISH PROVIDED
 - 5. ALUMINUM FINISH GLASS WINDOW UNIT WITH 1/2\"
- GENERAL NOTES:**
- 1. ALL ELEVATIONS MAY VARY DUE TO CONSTRUCTION SYSTEM AND FINISH TYPES USED.
 - 2. EIFS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
 - 3. FINISHES SHALL BE IN ACCORDANCE WITH THE COLOR OF THE SYSTEM AND USED.
 - 4. REFER TO THE GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING MATERIALS, FINISHES, AND CONSTRUCTION DETAILS.
 - 5. REFER TO THE GENERAL NOTES FOR ADDITIONAL INFORMATION REGARDING MATERIALS, FINISHES, AND CONSTRUCTION DETAILS.

| REVISION | |
|----------|------------------|
| NO. | DATE/DESCRIPTION |
| 1 | AS.01 09-17-13 |
| 2 | AS.02 09-17-13 |
| 3 | AS.03 09-17-13 |
| 4 | AS.04 09-17-13 |
| 5 | AS.05 09-17-13 |
| 6 | AS.06 09-17-13 |
| 7 | AS.07 09-17-13 |
| 8 | AS.08 09-17-13 |
| 9 | AS.09 09-17-13 |
| 10 | AS.10 09-17-13 |
| 11 | AS.11 09-17-13 |
| 12 | AS.12 09-17-13 |
| 13 | AS.13 09-17-13 |
| 14 | AS.14 09-17-13 |
| 15 | AS.15 09-17-13 |
| 16 | AS.16 09-17-13 |
| 17 | AS.17 09-17-13 |
| 18 | AS.18 09-17-13 |
| 19 | AS.19 09-17-13 |
| 20 | AS.20 09-17-13 |
| 21 | AS.21 09-17-13 |
| 22 | AS.22 09-17-13 |
| 23 | AS.23 09-17-13 |
| 24 | AS.24 09-17-13 |
| 25 | AS.25 09-17-13 |

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A5.02



ENLARGED EXTERIOR S.W. ELEVATION
1/4" = 1'-0"



ENLARGED EXTERIOR S.E. ELEVATION
1/4" = 1'-0"

ENLARGED BUILDING ELEVATIONS

DJ

A R C H I T E C T U R E

COMMERCIAL • HOSPITALITY • RESIDENTIAL • INTERIORS

DJ Architecture P.C.
2414 Brighton Way SE
Atlanta, GA 30322

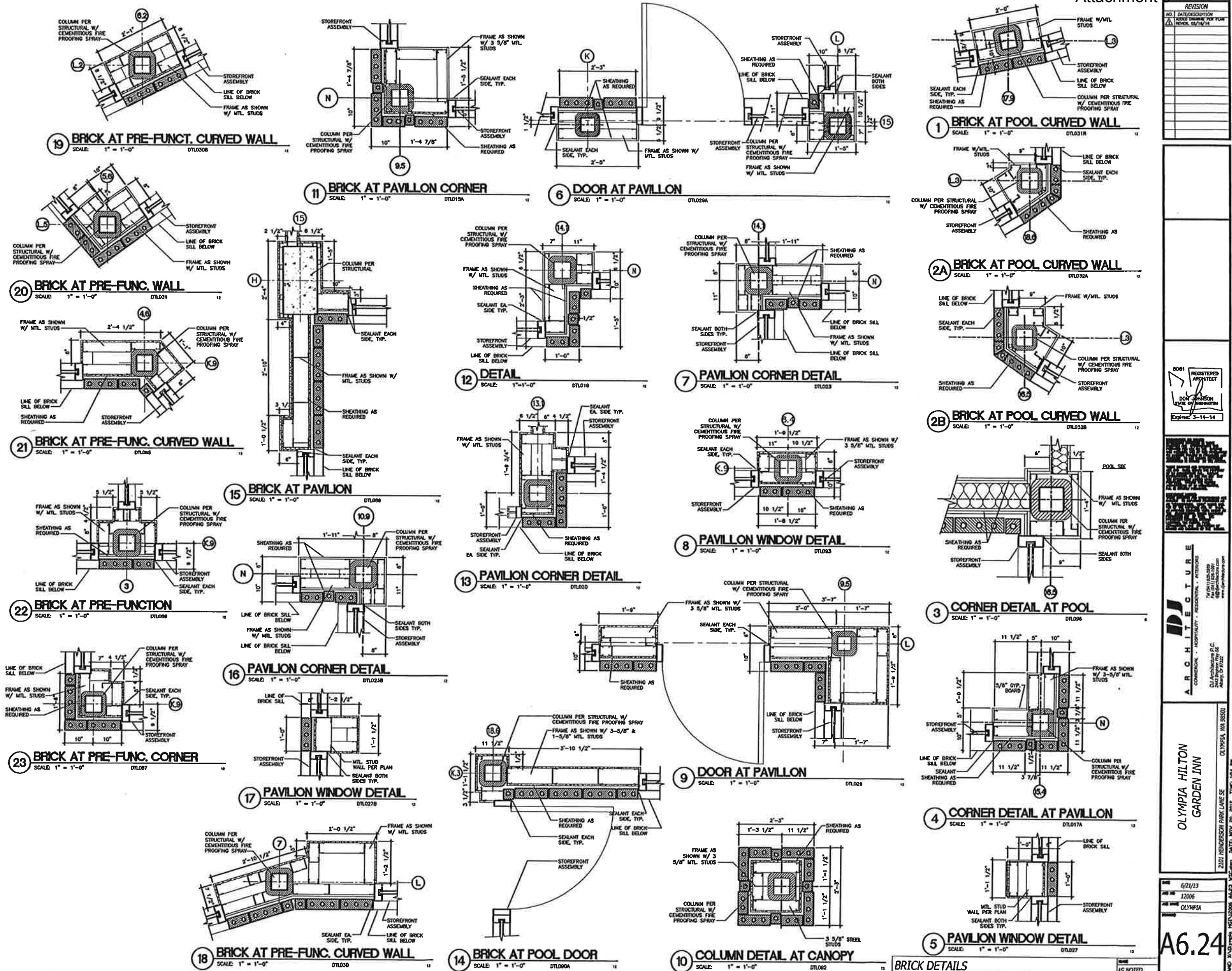
Tel (404) 628-3539
Fax (404) 628-1061
info@djarchitecture.com
www.djarchitecture.com

OLYMPIA HILTON
GARDEN INN

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| 6/21/13 |
| 12006 |
| OLYMPIA |

A5.51

AS NOTED

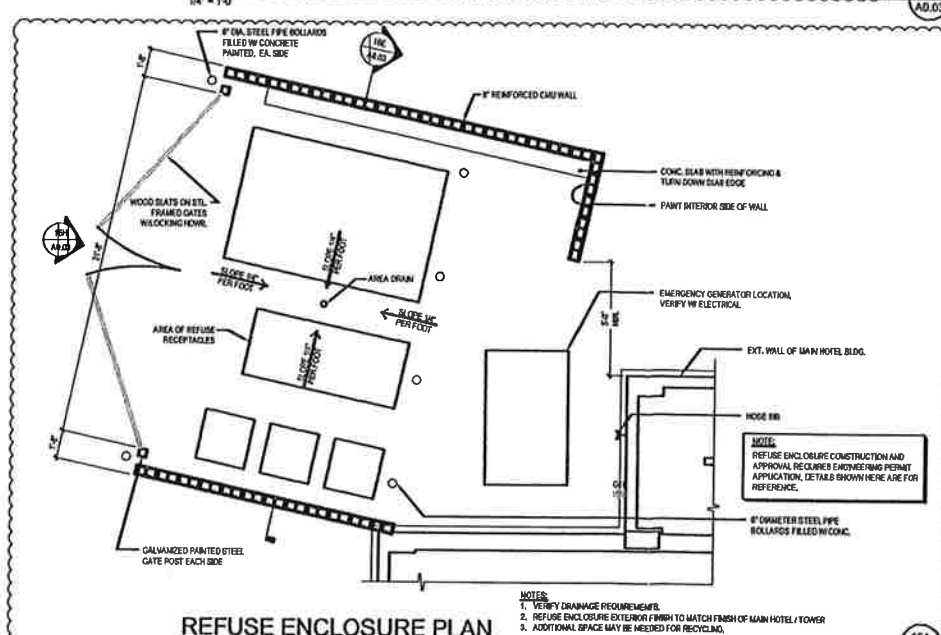
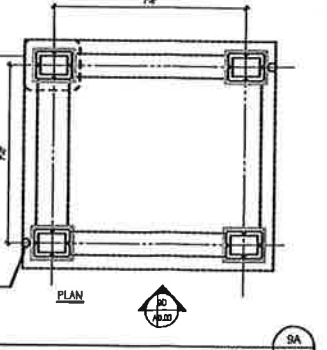
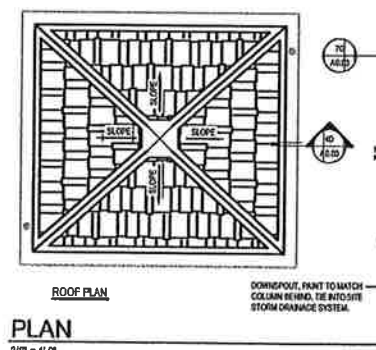
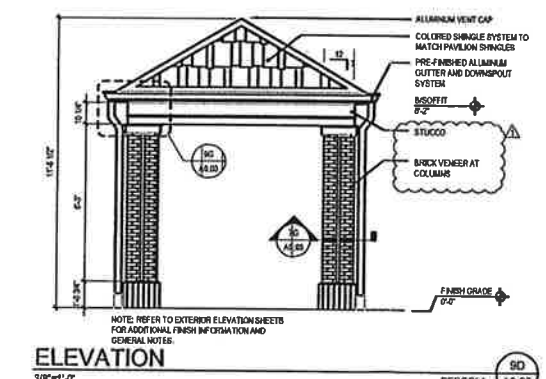
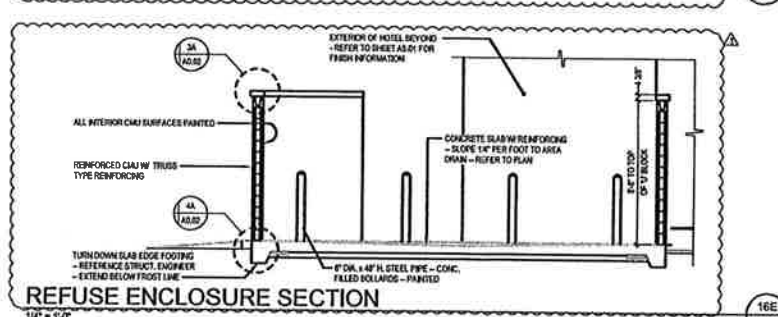
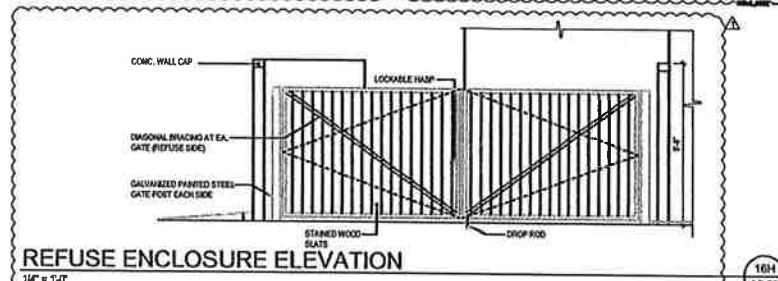
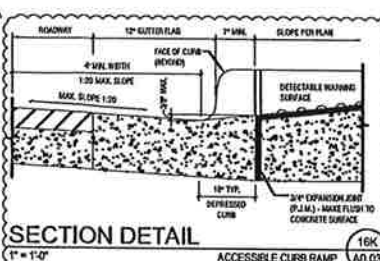
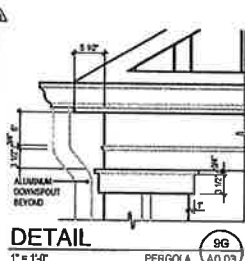
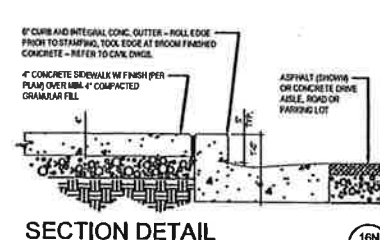


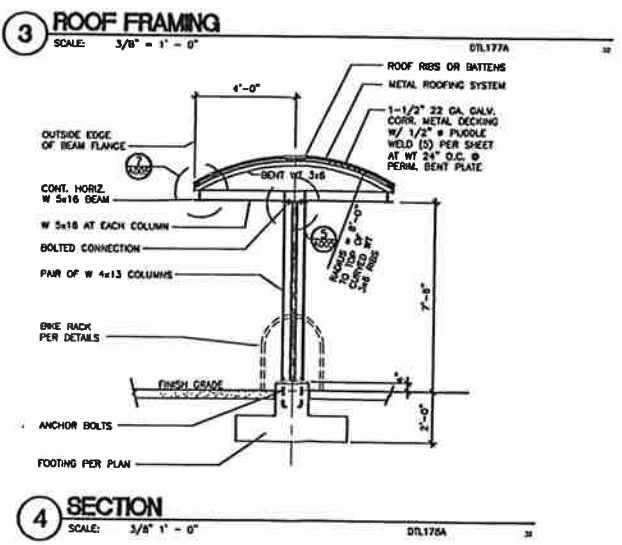
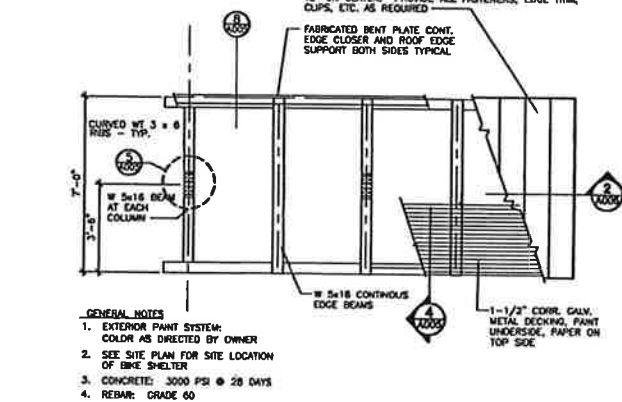
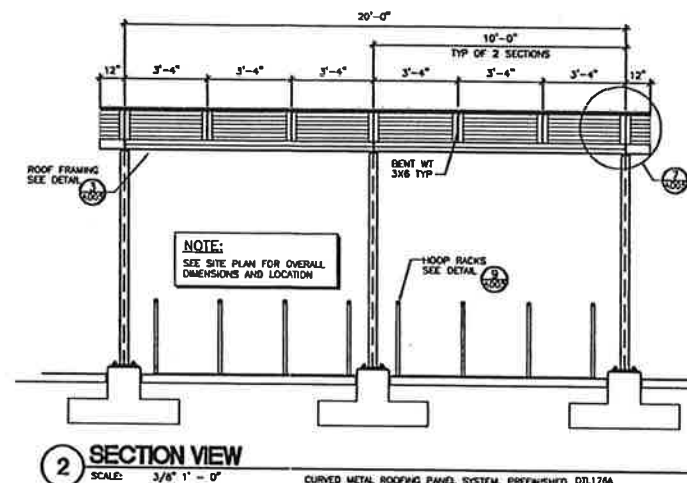
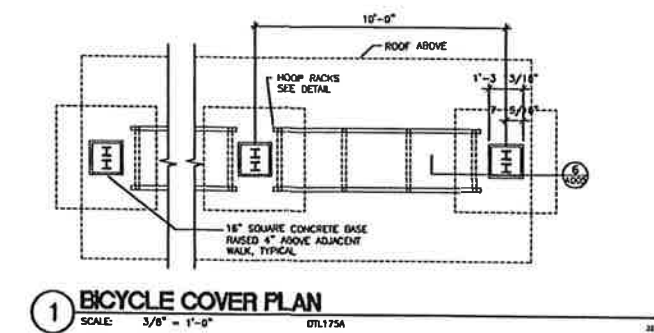
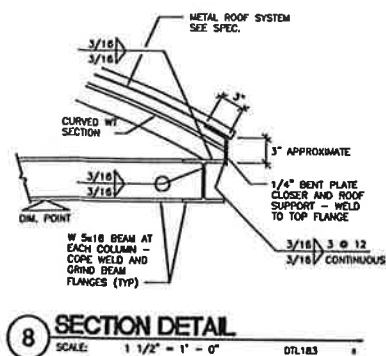
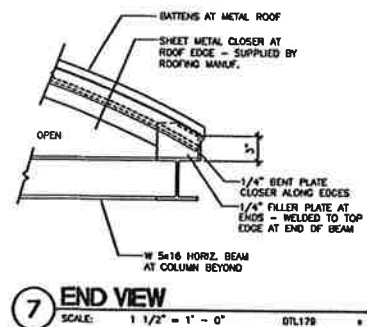
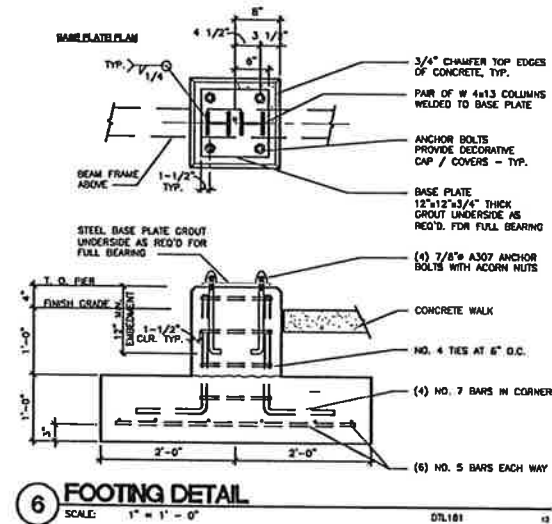
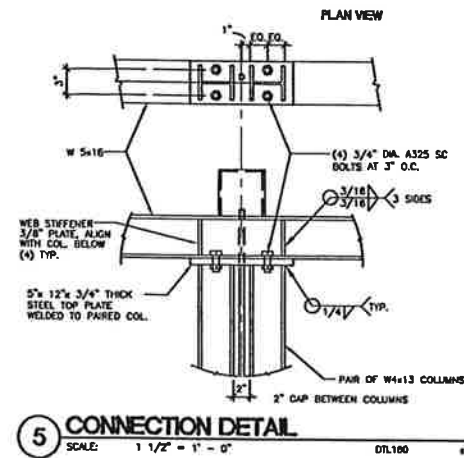
REGISTERED ARCHITECT
DON J. HANSON
STATE OF MISSISSIPPI
EXPIRES 5-14-14

ARCHITECTURE
COMMERCIAL • RESIDENTIAL • INTERIORS
7400 E. 11TH AVE.
DENVER, CO 80231
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OLYMPIA HILTON
GARDEN INN

2017 HENDERSON PARK LANE SE
OLYMPIA, WA 98512
DATE: NOV 20, 2012 TIME: 10:44 PM
6/21/13
12006
OLYMPIA
A6.24

[illegible]



Signage

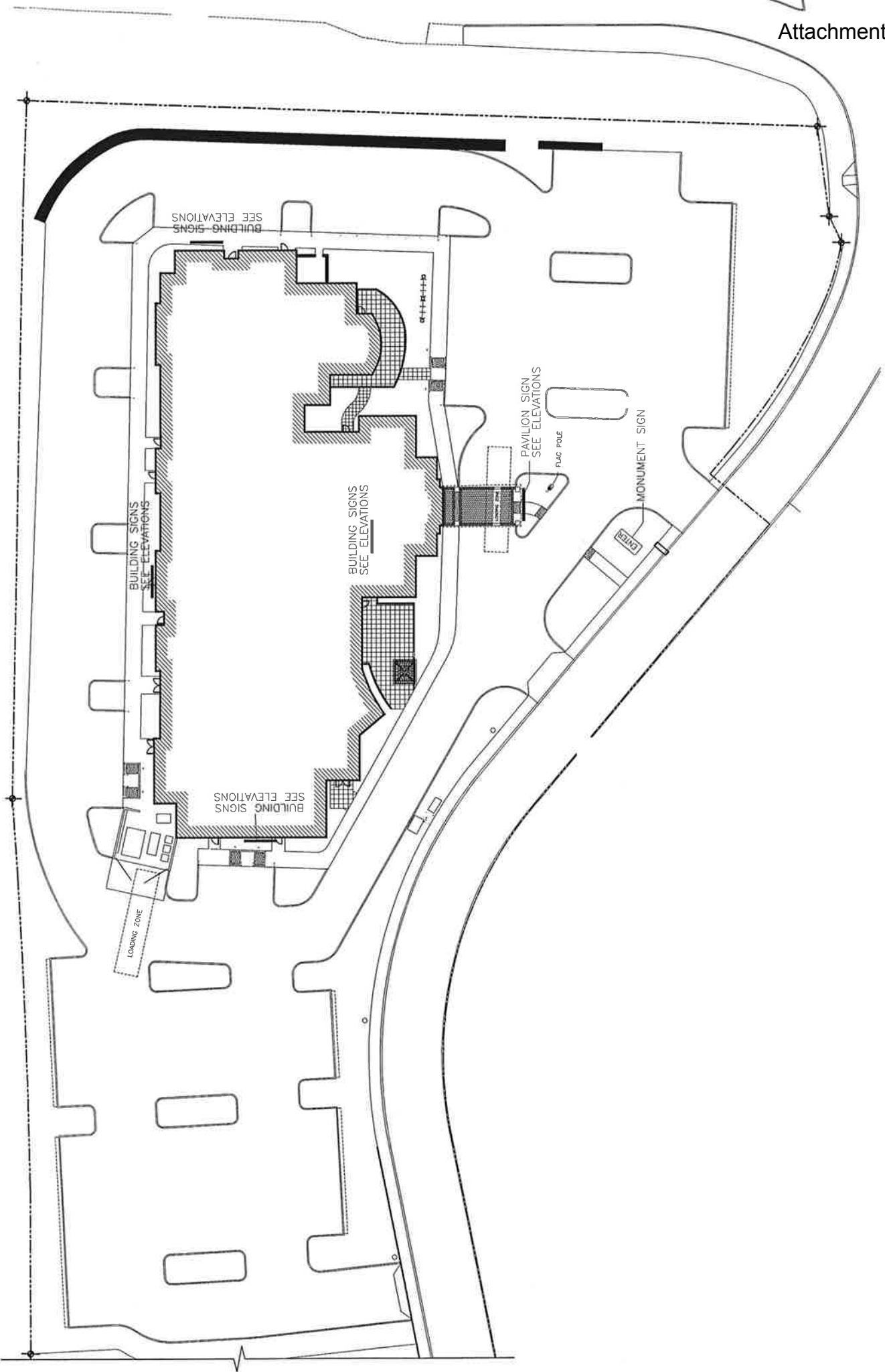
Sign location plan

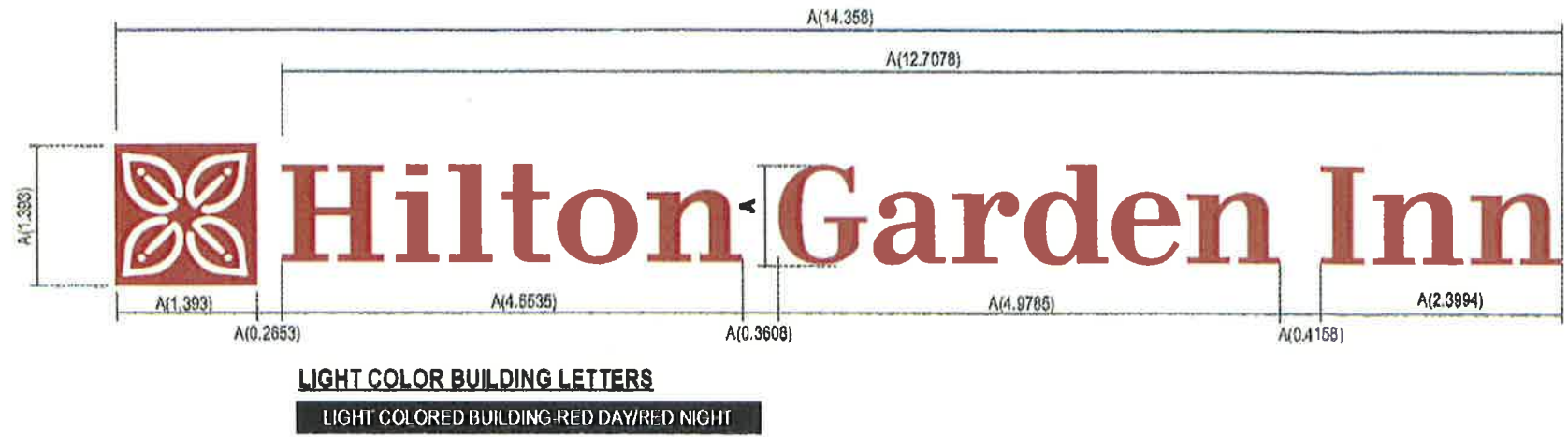
Signage details

Hilton Garden Inn

Olympia, Wa



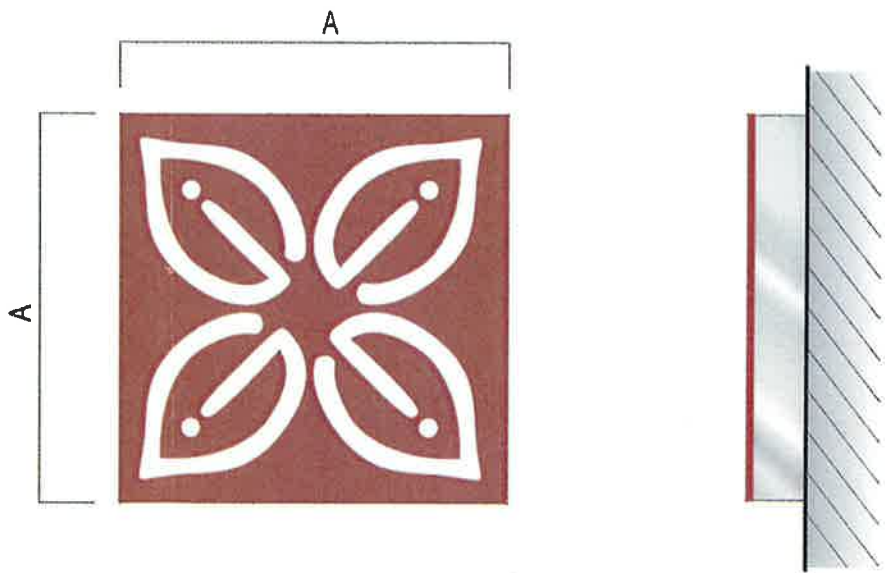




BUILDING SIGN One on Front Elevation and one on Rear Elevation.
See Building Elevations.



MONUMENT SIGN One at Entry. See Site Plan.



ILLUMINATED LOGO
5" (127mm) DEEP CHANNEL LOGO

PAVILION SIGN Located on Front Gable of Pavillion.
See Building Elevations.