

UDC District 7 - LOI

URBAN DESIGN COMMISSION MEMBERS, This letter provides specific sections of the Urban Design District No.7 text as it applies to the proposed Madison College – South Campus. Specific portions of the zoning text Sec. 33.24(14) are copied below. Design comments are provided following each section in italic text.

(14) Urban Design District No. 7.

- a. Statement of Purpose. The purpose of these design requirements and guidelines is to provide clear direction for how property owners can make improvements to their properties to collectively improve the visual character and safety of Park Street. When applied, they will ensure against fragmented or incompatible development and will help prevent the negative visual and functional impacts of uncoordinated design decisions.

(14) (a) The Madison College - South Campus project will serve as a new anchor facility located at the southern end of Park Street at the entrance to the South Beltline Highway.

- b. Property Included in the District. The District shall include all properties having any frontage on South Park Street between the West Beltline Highway on the south and Regent Street on the north.

(b) The property for redevelopment is currently occupied by the State ETF Building. Located at the southern end of UDC District 7. The new facility will result in a building being built closer to the corner of Badger Road and the South Beltline access from Park Street. Parking will be located on the back side, southerly, side of the new facility.

- d. Basis for Design Review. In reviewing plans for development in the District, the Urban Design Commission shall consider the following requirements and guidelines as may be appropriate. The development shall meet the requirements and conform as much as possible to the guidelines. Both the requirements and guidelines apply to new construction, renovations, additions, and exterior alterations unless stated otherwise for a specific item.

(d) The proposed project is a new facility replacing the existing ETF Building. The project intent is to meet the spirit of UDC District 7 requirements while also meeting the needs of a commuter campus educational facility.

1. Building Setbacks and Orientation.

a. Requirements

- i. New buildings shall have a setback between one (1) to ten (10) feet from the front property line. Where new buildings are designed for existing block faces the building setback shall be consistent with adjoining buildings but shall not exceed ten (10) feet.

209 south water street milwaukee, wisconsin 53204 414 359 3060
2310 crossroads drive suite 2000 madison, wisconsin 53718 608 240 9900
205 north orange avenue suite 202 sarasota, florida 34236 941 444 8845

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(d) 1. a. i. The proposed building is moved much closer to the corner of Badger Road and the Park Street access to the South Beltline in comparison to the existing ETF building. This 'at the end' of Park Street project does not meet the setback requirements of the more urban areas along the central Park Street area; but, the building is sited closer to the street while allowing for both expansion and emergency/fire safety access. Outdoor seating and gathering is also provided between the building and the front property line to bring life and interest to the street edge.

- ii. In special cases, such as gas stations, setbacks can exceed ten (10) feet with provisions for walkways and landscaping that make these uses more attractive and inviting.

(d) 1. a. ii. While not a gas station, the proposed facility does serve a commuter/car orientated client community and the need to provide multi-sided access to a facility.

b. Guidelines

- i. The front yard setback should be designed to provide for amenities that will enhance the visual and pedestrian character of the street.

(d) 1. b. i. The façade facing the South Beltline access road from Park Street serves as a highly visible portion of the façade. The remaining three sides of the building are well developed as entries, screened service areas, bike parking and vehicle circulation lanes.

- iii. Walkways should be provided to connect the building entrance to the public sidewalk.

(d) 1. b. iii. New direct pedestrian and bike connections will be developed from the corner of Badger Road and Park Street. This new connection is proposed to both serve this new facility and the Badger Road area.

- iv. The front facade of the building and the primary entrance should face the primary street.

(d) 1. b. iii. New direct pedestrian and bike connections will be development from the corner of Badger Road and Park Street. This new connection is proposed to both serve this new facility and the Badger Road area.

2. Building Massing and Articulation.

a. Requirements

- i. All visible sides of the building shall be designed with details that complement the front facade. Side facades that are visible from the primary street shall receive complementary design attention.

(d) 2. a. i. All sides of the building are developed to the same design level. The palette of materials utilized at the Madison College – Truax Campus is emulated for this new facility; incorporating limestone, glass, metal panel, and brick.

- ii. Blank building walls with little detail or variety along primary facades shall be avoided. Improvements to these buildings shall include details at the street level to create a more comfortable pedestrian scale and character.

(d) 2. a. ii. No 'blank' façade walls are proposed. The use of limestone, glass and metal framing are the main elements used throughout. Canopies are implemented to create a more comfortable pedestrian scale.

- iii. Architectural details at the ground floor shall be provided to enhance the pedestrian character of the street. Details shall include window and door trim, recessed entries, awnings, and/or other features.

(d) 2. a. iii. The use of limestone, glass and metal framing are the main elements used at the pedestrian level. Major entry points are located under canopies, or are recessed into the building form.

- iv. Mechanical equipment shall be screened from view by using screen designs that are architecturally integrated with the building design.

(d) 2. a. iv. All mechanical equipment is screened.

b. Guidelines

- i. "Green" building design that promotes energy efficiency is encouraged.

(d) 2. b. i. Photovoltaic panels are being studied for the roof as a major 'green' element for this building.

- ii. For large buildings, variation to the building face design should be provided through the use of materials and color, and/or by dividing the building into bays to break up large facades to create pedestrian interest at the street level. This is particularly important for existing large industrial and commercial buildings on Park Street.
(d) 2. b. ii The use of the Madison College 'standard' building palette combine with articulating major sections of the building serve to break up any large section of façade.

- iv. Flat roofs are preferred for new mixed-use and commercial buildings.
(d) 2. b. iv. The majority of the roof is a 'flat' roof with a section of the roof facing Badger Road and Park Street angled up to better frame a main entry and indicate prominence.

- v. A positive visual termination at the top of the building should be provided.
- viii. Buildings should be designed as creations of their own time. Copying historic appearance and details is discouraged.
(d) 2. b. v. The majority of the roof is a 'flat' roof with a section of the roof facing Badger Road and Park Street angled up to better frame a main entry and indicate prominence.

- vii. Buildings should be designed as creations of their own time. Copying historic appearance and details is discouraged.
(d) 2. b. vii. A current palette of materials is used and no copying of a historical style is intended.

- xi. Creative architectural designs and details are encouraged so long as designs do not conflict or draw attention away from other buildings in the block.
(d) 2. b. xi. This building does not draw attention to, or away, from other buildings as it will always stand separate from other structures in this design district.

3. Building Height.

a. Requirements.

- i. New buildings shall be at least two (2) stories in height, except as provided in Par. 10, 11, 12 or 13 or in the guidelines below.
(d) 3. a. i. The proposed building is a 'tall' two stories in height to a three level building at walk-out locations.

4. Windows and Entrances.

a. Requirements.

- ii. Office buildings and other non-retail buildings should have at least forty (40) percent of the street wall devoted to windows.

(d) 4. a. ii. Exterior glazing will meet this requirement.

- iii. Windows on the ground floor shall be transparent, and not be darkly tinted, colored or have a mirrored finish.

(d) 4. a. ii. Windows will not be darkly tinted.

b. Guidelines.

- i. Building entrances should be designed as the focal point of the front facade.

(d) 4. b. i. Building entrances are designed as focal points to the facades with direct sidewalk access.

- ii. Entrances to new buildings or additions located close to the sidewalk should include recessed entries to allow for pedestrian movement.

(d) 4. b. ii. Entries are either recessed or under covered entry points.

5. Materials and Colors.

a. Requirements.

- i. Exterior materials shall be durable, high-quality materials and appropriate for external use.

(d) 5. a. i. Only durable, high-quality materials appropriate for an educational facility are being proposed.

b. Guidelines

- i. Brick, stone and terra cotta are preferred primary materials for new buildings or additions.

(d) 5. b. i. Only durable materials are proposed.

- iii. Color choice should complement the style and materials of the building's facade and provide a pleasing relationship with adjoining buildings.

(d) 5. b. iii. The proposed building stands separate from all other building in this district both in form and in function.

6. Signage.

a. Guidelines.

- i. Preferred sign types include building mounted signs, window signs, projecting signs, and awning signs.

(d) 6. a. i. Signage will be wall mounted.

- vii. Internally illuminated signs displaying illuminated copy should be designed so that when illuminated, the sign appears to have light-colored copy on a dark or non-illuminated background.

(d) 6. a. vii. Signage will be internally illuminated.

- viii. Individually mounted backlit letters are an encouraged form of signage.

(d) 6. a. viii. Signage will consist of individual letters.

7. Parking and Service Areas.

a. Requirements.

- i. Off-street parking facilities for new buildings shall be located behind or on the sides of the building and be at least ten (10) feet from the front property line.

(d) 7. a. i. Parking setback from the property line will vary per location in order to meet the need for 250 car stalls.

- ii. At least one (1) tree island, planted with a tree and sized and landscaped pursuant to the Zoning Ordinance, shall be provided per twelve (12) parking spaces provided. This requirement is in addition to any other landscaping requirements of the Zoning Ordinance.

(d) 7. a. ii. Up to 12 car stalls will be designed between tree islands.

- iii. All trash areas shall be screened from public view.

(d) 7. a. iii. At this time trash holding areas are planned to be within the building.

b. Guidelines.

- ii. All parking areas should be well landscaped and appropriately lighted.

(d) 7. b. ii A full landscape plan as prepared by a licensed Landscape Architect will be developed. A full lighting plan as prepared by a lighting engineer will be prepared.

iii. All parking areas should include walkways to allow safe pedestrian access to the building entrance.

(d) 7. b. iii. All walkways from public transit, cars, bikes or pedestrian access is served by paved walkways.

v. Driveways along Park Street should be minimized to improve traffic flow and reduce pedestrian conflicts.

(d) 7. b. v. No driveways are proposed to Park Street

c. Pedestrian areas and customer parking areas should be separated from loading, service, and drive through areas.

i. If possible, trash areas should be located inside buildings.

(d) 7. c. i. Pedestrian walkways are separated from a screened two vehicle service dock. Trash is proposed to be held for removal from inside the building.

8. Landscaping and Open Space.

a. Guidelines.

iv. The use of rain gardens and bio-retention basins to collect runoff and filter pollutants is encouraged, where practical.

(d) 8. a. iv. Bio-retention areas and complete development open spaces is a part of the scope of this project.

v. Landscape islands, open spaces and porous pavements should be provided, where practical, for additional storm water infiltration.

(d) 8. a. v. The use of landscape islands and developed open spaces for students are within the scope of the project.

9. Site Lighting and Furnishings.

a. Requirements.

i. Full cut-off light fixtures shall be used to illuminate the site.

(d) 9. a. i. Full cut-off light fixtures shall be specified.

b. Guidelines.

- i. Pedestrian use areas should be adequately, but not excessively lit. Low-level building and landscape accent lighting is encouraged, where appropriate.

(d) 9. b. i. Low level accent lighting leading to main entry points will be developed.

- ii. Lighting and site furnishings (benches, trash receptacles, bicycle racks, etc.) should be designed to complement the character of the building and provide a pleasing relationship with adjoining properties and the public sidewalk.

(d) 9. b. ii. The site will be fully developed with complementing furniture for all the uses listed.

- iii. Bicycle storage facilities should be located near the building entrance.

(d) 9. b. iii. Bike racks will be designed per City of Madison requirements for quantity, styles and physical spacing.

- iv. Decorative, colored paving is encouraged for walkways and outdoor use areas.

(d) 9. b. iv. The use of decorative, colored paving has not been determined as a proper design element for this project.

Legal Description:

Lot Two (2), Certified Survey Map No. 4778 recorded in the Office of the Register of Deeds for Dane County, Wisconsin on October 10, 1985, in Volume 21 of Certified Survey Maps, Page 120, as Document No. 1903990, located in the City of Madison, Dane County, Wisconsin.

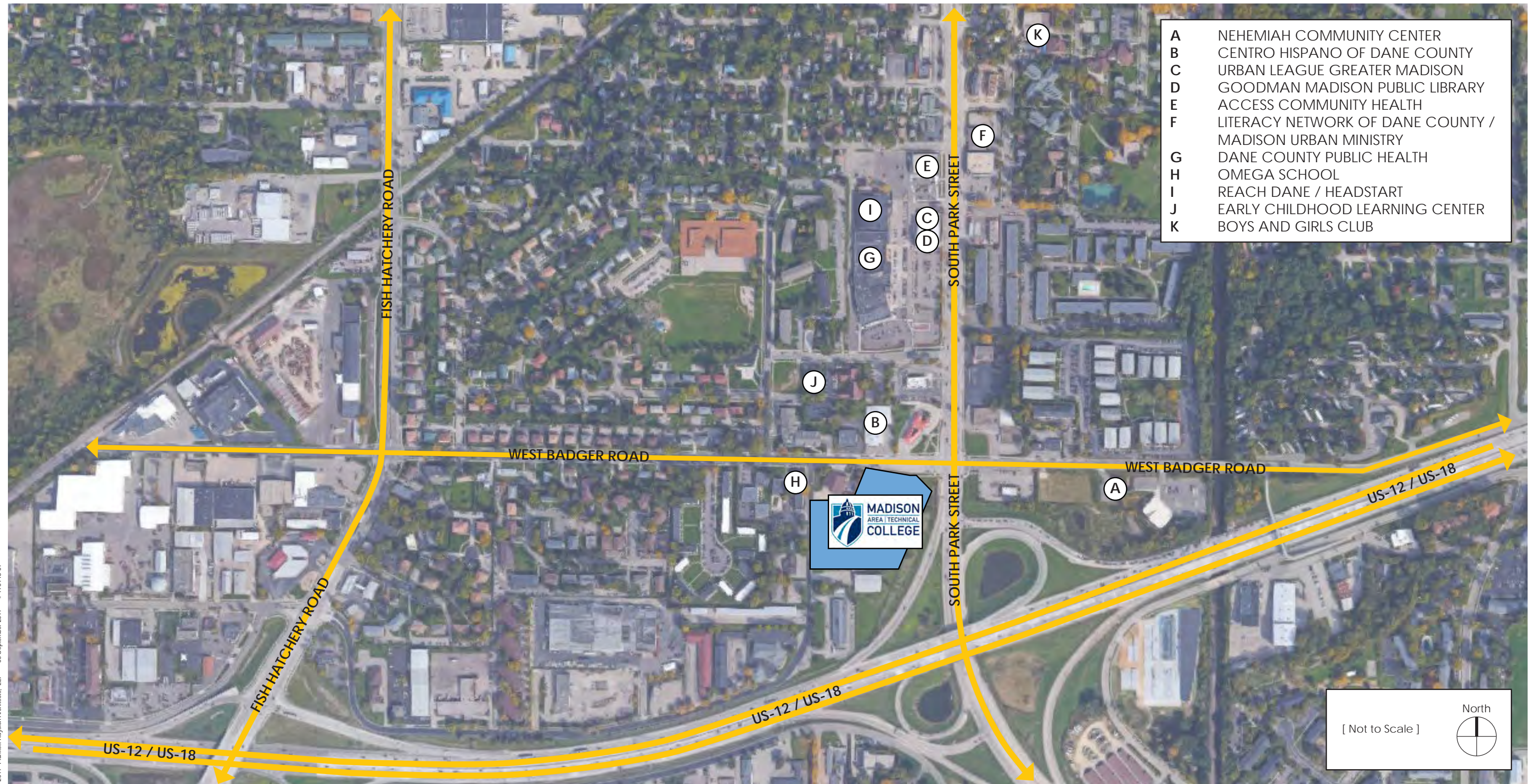
Excepting therefrom the land contained in Warranty Deed, recorded April 13, 2010 as Document No. 4647761.



Madison College - Goodman South Campus Plan Commission Submittal

December 13, 2017

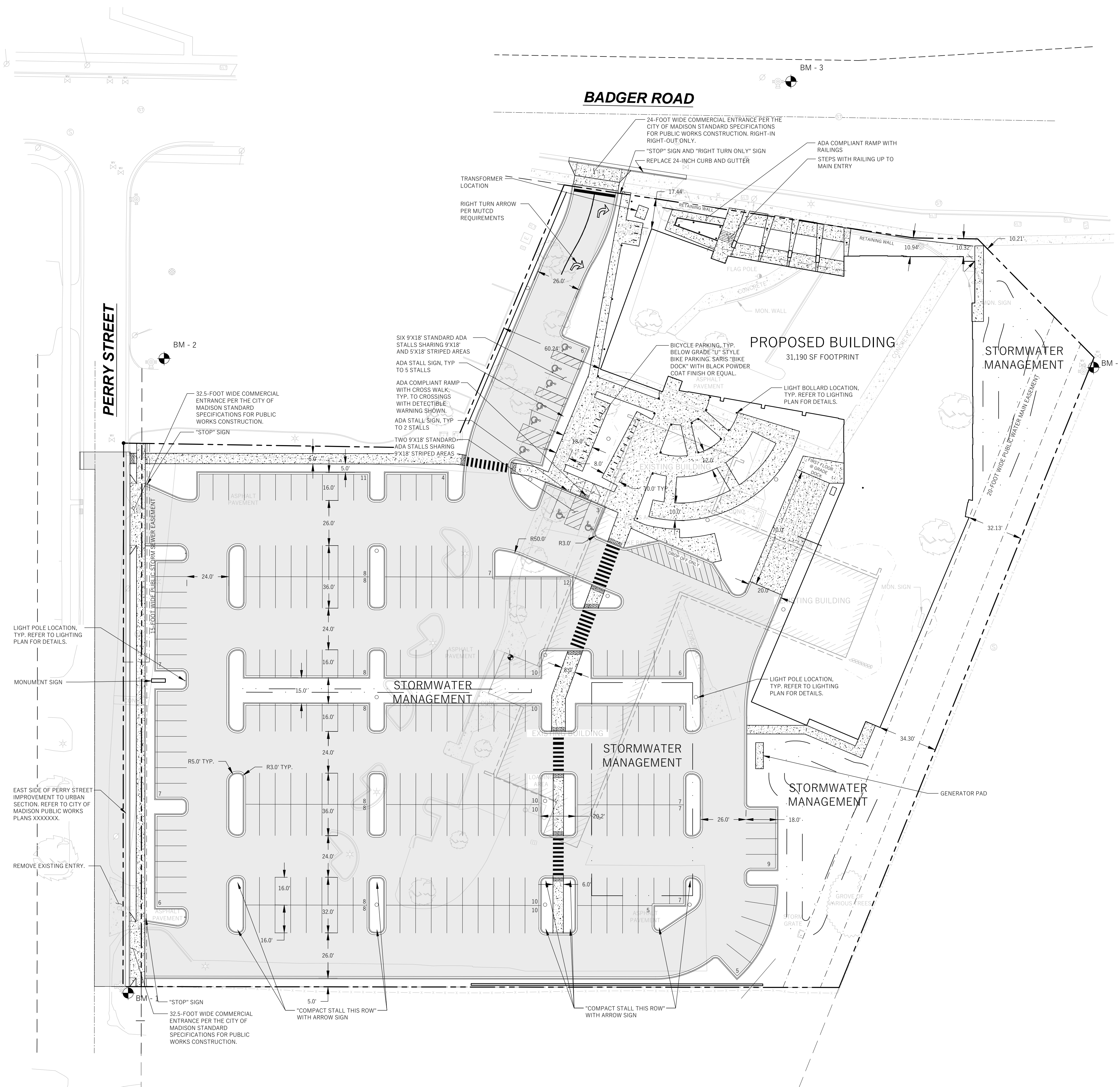









801 W. BADGER ROAD
MADISON, WI 53713

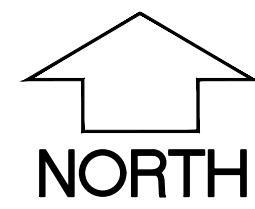
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LEGEND (PROPOSED)

- | | |
|---|-------------------------------|
|  | PROPOSED PROPERTY BOUNDARY |
|  | EASEMENT |
| | BUILDING FOOTPRINT |
|  | 18" CURB AND GUTTER (PRIVATE) |
|  | ASPHALT PAVEMENT |
| | CONCRETE PAVEMENT |
|  | STORMWATER TREATMENT FACILITY |



GENERAL NOTES

1. UNDERLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE VALIDATED BY LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS UNTIL CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

SITE INFORMATION BLOCK:

SITE ADDRESS: 801 WEST BADGER ROAD
SITE ACREAGE: 194,683 SF (4.47 AC)
USE OF PROPERTY: COMMERCIAL
ZONING: COMMERCIAL CENTER (CC - MGO 28.068) AND URBAN DESIGN DISTRICT #7

SETBACKS:

FRONT YARD: 70% OF STREET FACING BUILDING WALL SHALL BE SETBACK NO MORE THAN 85 FEET
REAR YARD: 20- FEET
SIDE YARD: 6- FEET

PARKING REQUIREMENTS: (MGO 28.141(4)(g))
 MINIMUM: 1 PER CLASSROOM + 1 PER 5 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR - AS ESTABLISHED IN A CAMPUS MASTER PLAN = 246
 MAXIMUM: 1 PER CLASSROOM + 1 PER 3 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR - AS ESTABLISHED IN A CAMPUS MASTER PLAN = 383

BICYCLE REQUIREMENTS: (MGO 28.141(4)(g))
1 PER 5 STUDENTS BASED ON THE MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ANY ONE TIME - OR
- AS ESTABLISHED IN A CAMPUS MASTER PLAN = 205

NUMBER OF CLASSROOMS: 41
MAXIMUM # OF STUDENTS ATTENDING CLASSES AT ONE TIME: 1,025

TOTAL NUMBER OF PARKING STALLS: 235
SMALL STALLS (PERCENT OF TOTAL): 48 (20.4%)
NUMBER OF STALLS DESIGNATED ACCESSIBLE: 8

TOTAL NUMBER OF BIKE STALLS: 46

EXISTING IMPERVIOUS SURFACE AREA: 100,915 SQ.FT. (51.8%)
 ROOFTOP: 19,010 SQ.FT.
 PAVED: 81,905 SQ.FT.

NEW IMPERVIOUS SURFACE AREA: 139,500 SQ.FT. (71.6%)
 ROOFTOP: 31,190 SQ.FT.
 PAVED: 108,310 SQ.FT.

DISTURBANCE LIMITS: 190,000 SQ. FT.



MADISON
AREA TECHNICAL
COLLEGE

801 WEST BADGER ROAD
MADISON, WI 53713


MADISON COLLEGE
GOODMAN SOUTH CAMPUS
CITY OF MADISON, DANE COUNTY, WI

Sheet Title:
SITE PLAN

Revisions:

[illegible]

Graphic Scale

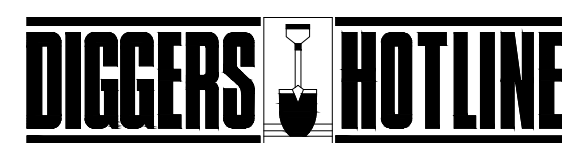
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| Wyser Number | 17-0407 |
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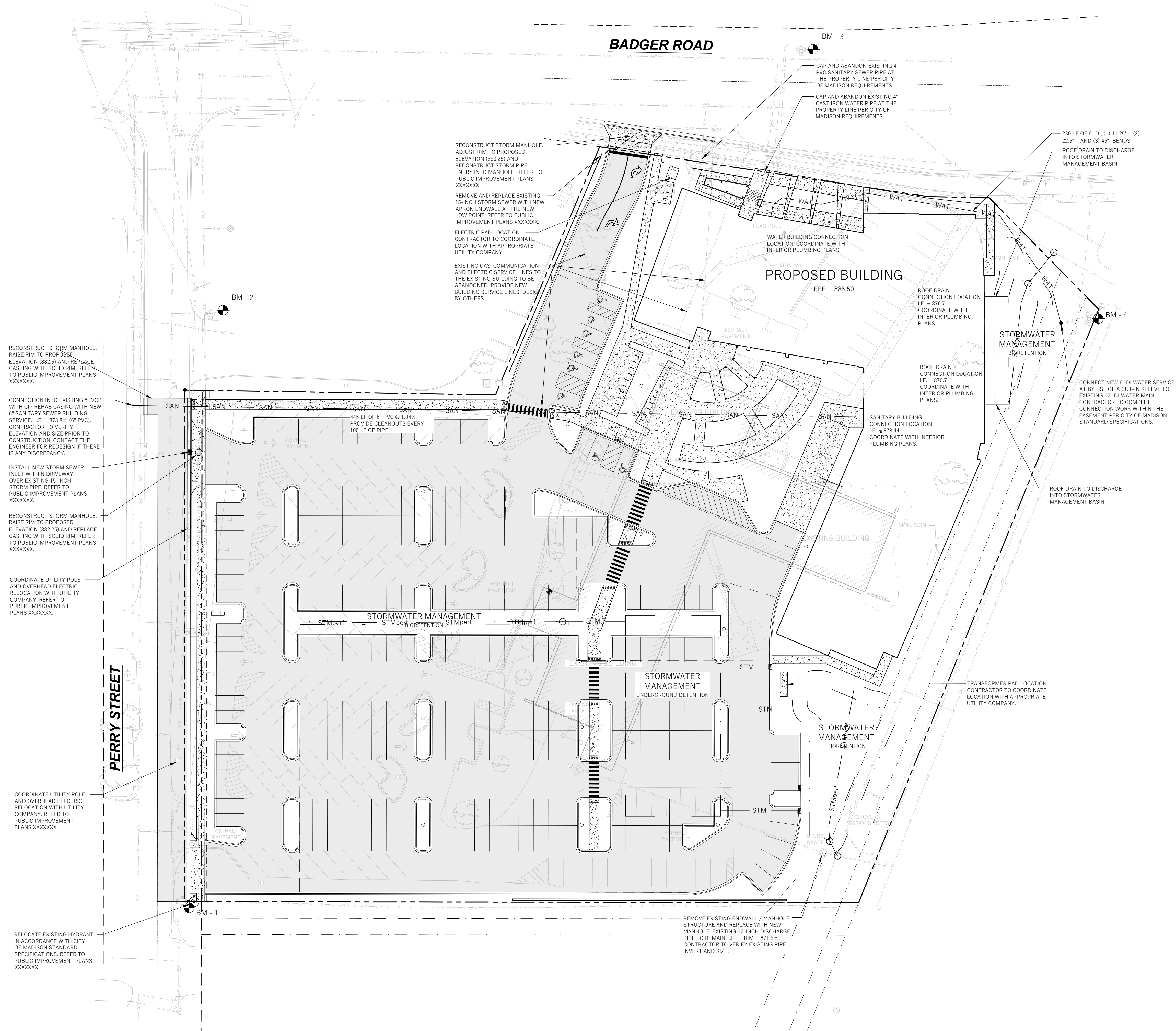
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LEGEND (PROPOSED)

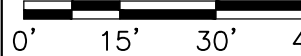
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- PROPOSED PROPERTY BOUNDARY
 EASEMENT
 BUILDING FOOTPRINT
 18" CURB AND GUTTER
 ASPHALT PAVEMENT
 CONCRETE PAVEMENT
 PROPOSED WATER MAIN
 PROPOSED SANITARY SEWER
 PROPOSED STORM SEWER
 PROPOSED GAS SERVICE (DESIGN BY OTHERS)
 PROPOSED ELECTRIC SERVICE (DESIGN BY OTHERS)
 STORMWATER TREATMENT FACILITY
 DRAINAGE GRADE BREAK
 DRAINAGE ARROW

GENERAL NOTES

1. UNDERSLYING SITE CONTOURS AND INFORMATION BASED ON TOPOGRAPHIC & UTILITY DATA AS SURVEYED BY WYSER ENGINEERING ON SEPTEMBER 8, 2017. WYSER ENGINEERING SHALL NOT BE HELD RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY ARISE AS A RESULT OF ERRONEOUS OR INCOMPLETE INFORMATION PROVIDED BY OTHERS. CONTRACTOR TO CONFIRM ALL ELEVATIONS, GENERAL DRAINAGE AND EARTHWORK REQUIREMENTS PRIOR TO CONSTRUCTION.
2. THE BENCHMARK LOCATIONS ARE SHOWN FOR REFERENCE ONLY ON THIS PLAN. THE BENCHMARKS SHALL BE UNVALIDATED BY A LICENSED LAND SURVEYOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RISK ASSOCIATED WITH BENCHMARK ELEVATIONS NOT CONFIRMED.
3. CONTRACTOR TO OBTAIN APPROPRIATE PERMITS FOR STREET OPENINGS & TO WORK WITHIN THE CITY'S LAND IF REQUIRED.
4. WYSER ENGINEERING SHALL BE HELD HARMLESS AND DOES NOT WARRANT ANY DEVIATIONS BY THE OWNER OR CONTRACTOR FROM THE APPROVED CONSTRUCTION PLANS THAT MAY RESULT IN DISCIPLINARY ACTIONS BY REGULATORY AGENCIES.
5. IF ANY ERRORS, DISCREPANCIES, OR OMISSIONS WITHIN THE PLAN BECOME APPARENT, IT SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION SO THAT CLARIFICATION OR REDESIGN MAY OCCUR.
6. ALL MUNICIPAL UTILITY CONNECTIONS, WORK IN ROW, PUBLIC OUTLOTS AND PUBLIC EASEMENTS SHALL BE IN ACCORDANCE WITH CITY OF MADISON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.

UTILITY NOTES

- DIMENSIONS TAKE PRECEDENCE OVER SCALE. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD.
- LENGTHS OF ALL UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS SHALL BE VERIFIED IN THE FIELD DURING CONSTRUCTION.
- CONTRACTOR SHALL VERIFY ALL ELEVATIONS, LOCATIONS, AND SIZES OF SANITARY, WATER AND STORM LATERALS AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS.
- THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH ENGINEERING PLANS DESIGNED TO MEET ORDINANCES AND REQUIREMENTS OF THE MUNICIPALITY AND WISDOT, WSDSPS, AND WDNRI.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR:
- EXAMINING ALL SITES CONDITIONS RELATIVE TO THE CONDITIONS INDICATED ON THE ENGINEERING DRAWINGS. ANY DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER AND RESOLVED PRIOR TO THE START OF CONSTRUCTION.
 - OBTAINING ALL PERMITS INCLUDING PERMIT COSTS, TAP FEES, METER DEPOSITS, BONDS, AND ALL OTHER FEES REQUIRED FOR PROPOSED WORK TO OBTAIN OCCUPANCY.
 - VERIFYING UTILITY ELEVATIONS AND NOTIFYING ENGINEER OF ANY DISCREPANCY. NO WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS RESOLVED.
 - NOTIFYING ALL UTILITIES PRIOR TO THE INSTALLATION OF ANY UNDERGROUND IMPROVEMENTS.
 - NOTIFYING THE DESIGN ENGINEER AND MUNICIPALITY 48 HOURS PRIOR TO THE START OF CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION OBSERVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE DESIGNATED IMPROVEMENTS IN ORDER THAT THE APPROPRIATE DRAWINGS CAN BE PREPARED, IF REQUIRED. ANY CHANGES TO THE DRAWINGS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.
- ANY SANITARY SEWER, SANITARY SEWER SERVICES, WATER MAIN, WATER SERVICES, STORM SEWER, OR OTHER UTILITIES, WHICH ARE DAMAGED BY THE CONTRACTORS, SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE CONTRACTOR'S EXPENSE. NO BLASTING IS ALLOWED WITHIN 30 FEET OF EXISTING UTILITIES.
- ALL PRIVATE INTERCEPTOR WATER MAIN AND WATER SERVICES SHALL BE INSTALLED WITH A 6" MINIMUM BURST. PROVIDE INSULATION ABOVE PIPES WITH LESS THAN 5' OF GRAVEL COVER.
- GRANULAR BACKFILL MATERIALS ARE REQUIRED IN ALL UTILITY TRENCHES UNDER SIDEWALKS AND PROPOSED PAVED AREAS (UNLESS OTHERWISE SPECIFIED BY A GEOTECHNICAL ENGINEER). ALL UTILITY TRENCH BACKFILL SHALL BE COMPACTED PER SPECIFICATIONS. ALL PAVEMENT PATCHING SHALL COMPLY WITH THE CITY OF MADISON STANDARD SPECIFICATIONS. ADDITIONAL PAVEMENT MILLING AND OVERLAY MAY BE REQUIRED BY PERMIT.
- CONTRACTOR SHALL NOTIFY THE MUNICIPAL PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES.
- ALL NON-METALLIC BUILDING SEWER AND WATER SERVICES MUST BE ACCOMPANIED BY MEANS OF LOCATING UNDERGROUND PIPE. TRACER WIRE VALVE BOXES SHALL BE INSTALLED ON ALL LATERALS AND AS INDICATED ON THESE PLANS.
- ALL, EXTERIOR CLEANOUTS SHALL BE PROVIDED WITH A FIRST SLEEVE IN ACCORDANCE WITH SPS 382.34(5)(a)b AND SPS 384.302(c).
- ALL PRIVATE SANITARY BUILDING SEWER PIPE AND TUBING SHALL CONFORM TO SPS 384.30-3.
- ALL PRIVATE STORM BUILDING PIPE AND TUBING SHALL CONFORM TO SPS 384.30-6.
- ALL PRIVATE PIPE AND TUBING FOR WATER SERVICE SHALL CONFORM TO SPS 384.30-7.
- ALL PRIVATE PIPE SHALL BE INSTALLED PER SPS 384.40 INCLUDING AT LEAST 8' OF HORIZONTAL DISTANCE BETWEEN WATER PIPING AND SANITARY SEWER FROM CENTER OF PIPE TO CENTER OF PIPE AND 6' OF SEPARATION BETWEEN STORM SEWER AND WATER PIPING.
- THE CONTRACTOR SHALL ALLOW 10 WORKING DAYS FOR THE CONSTRUCTION OF GAS MAINS WHEN SCHEDULING THE WORK AND SHALL NOT RESTRICT ACCESS TO THE GAS MAINS CONTRACTOR OR OTHER UTILITY COMPANIES.
- INLET CASTINGS SHALL BE SET TO GRADE PRIOR TO AND SEPARATE FROM THE POURING OF THE CONCRETE CURB AND GUTTER. IS IS REQUIRED THAT THREE FEET OF CONCRETE CURB AND GUTTER ON EACH SIDE OF THE INLET SHALL BE POURED BY HAND, NOT THROUGH THE USE OF A CURB MACHINE. THE INLET CASTING SHALL BE SET TO GRADE ON A BED OF MORTAR WHICH SHALL BE A MINIMUM OF TWO INCHES THICK. THE INLET SHALL BE PLACED ON THE MORTAR BED AND SHALL BE ADJUSTED TO GRADE BY APPLYING DIRECT PRESSURE TO THE CASTING. ONCE THE CASTING ADJUSTMENT IS COMPLETE, THREE FEET OF CURB AND GUTTER ON EACH SIDE OF THE CASTING SHALL BE HRI-1 AND GREASE FILTER OR APPROVED EQUIVALENT INSTALLED WITHIN THEM.
- THE CURB INLET SHALL HAVE A CATCH-ALL HORI OIL AND GREASE FILTER OR APPROVED EQUIVALENT INSTALLED WITHIN THEM.
- NO BLASTING SHALL OCCUR WITHIN 30 FEET OF ANY EXISTING UTILITIES
- CONTRACTOR SHALL VERIFY AND COORDINATE ALL UTILITY CONNECTIONS WITH THE BUILDING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO BE IN CONFORMANCE WITH THE CITY OF MADISON EROSION CONTROL AND STORMWATER ORDINANCE, AND DNR ADMINISTRATIVE RULE NR 216 AT ALL TIMES.

| Revisions: | | |
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| No. | Date: | Description: |
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| Graphic Scale |  | |
| Wyser Number | 17-0407 | |
| Set Type | UDC | |
| Date Issued | 12/12/2017 | |
| Sheet Number | C300 | |



TRUE NORTH
PLAN NORTH
FIRST FLOOR PLAN
1/16" = 1'-0"
SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

Madison College
Goodman South Campus
801 W Badger Road, Madison, Wisconsin 53713



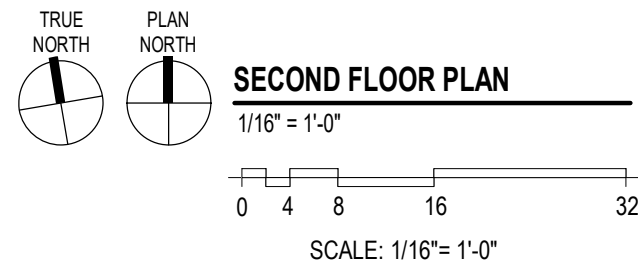
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| Date: | 12/13/17 |
| Job No: | 170143-01 |
| Sheet No.: | |

FIRST FLOOR PLAN



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| Job No: | 170143-01 |
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2nd
SECOND FLOOR PLAN

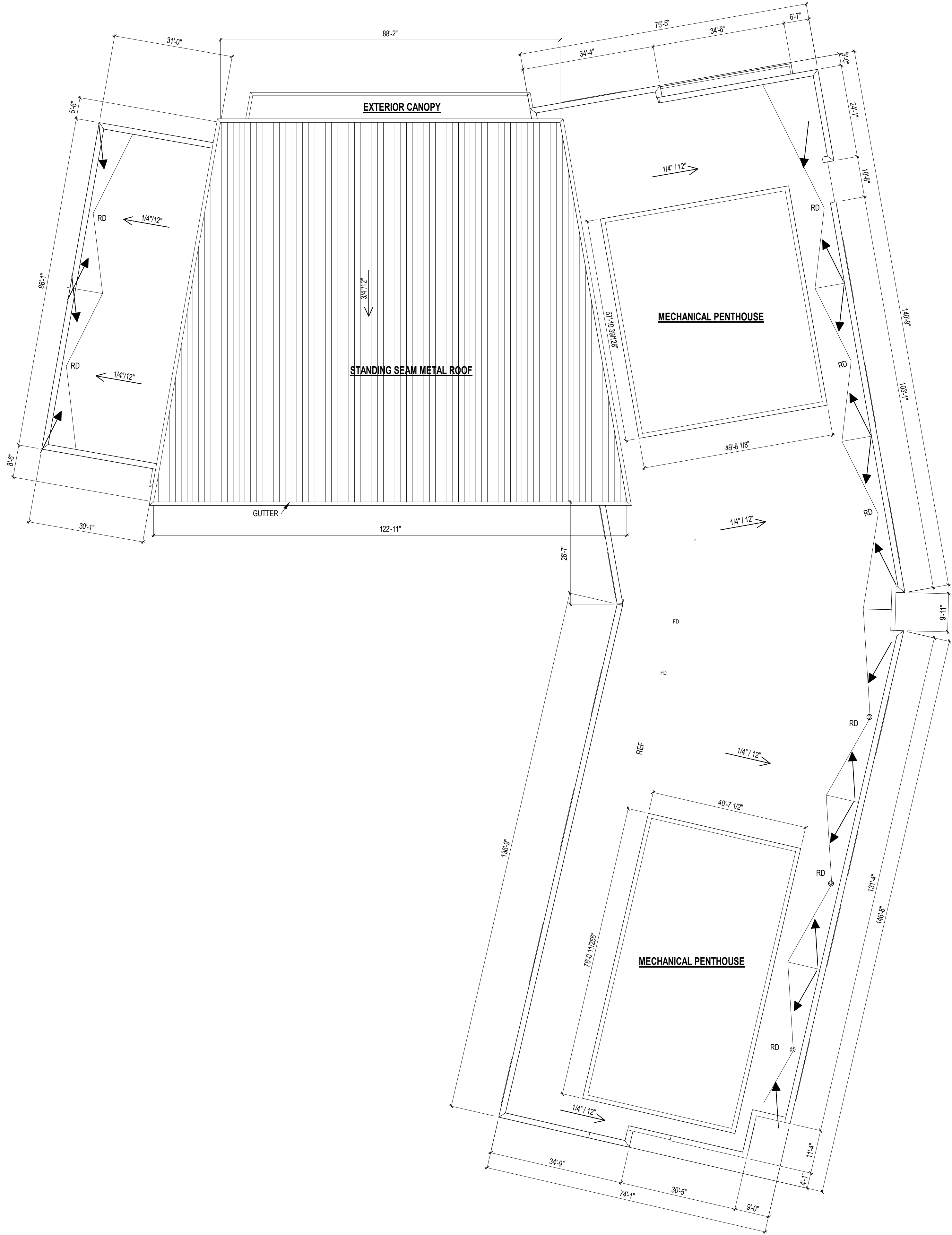
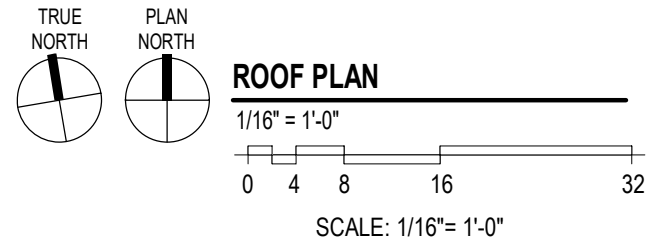
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ROOF PLAN

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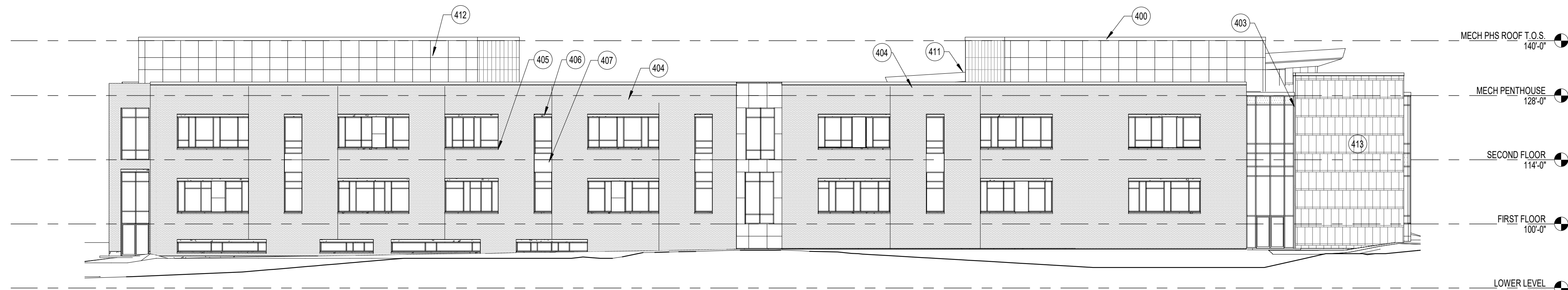
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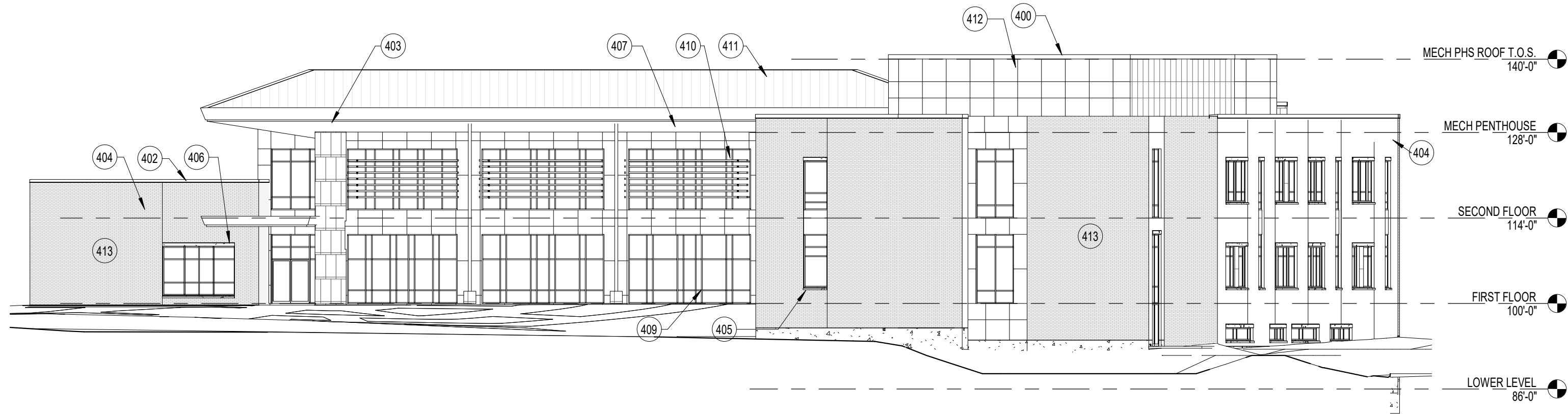


OVERALL EAST ELEVATION
0 3 5 11 21
SCALE: 3/32"= 1'-0"

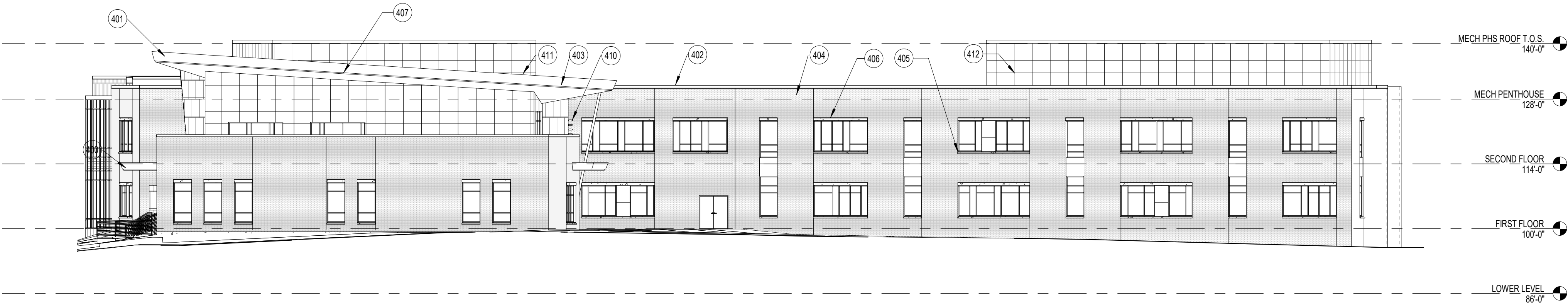
| EXTERIOR ELEVATION NOTES | |
|--------------------------|--|
| EXTERIOR ELEVATION NOTE | |
| NOTE # | |
| 400 | METAL FASCIA |
| 401 | METAL SOFFIT |
| 402 | METAL COPING |
| 403 | STONE VENEER |
| 404 | BRICK VENEER |
| 405 | PRECAST STONE SILL |
| 406 | PRECAST STONE LINTEL |
| 407 | METAL WALL PANEL, COLOR 1 |
| 408 | METAL WALL PANEL, COLOR 2 |
| 409 | ALUMINUM CURTAIN WALL |
| 410 | SUN SHADE |
| 411 | STANDING SEAM METAL ROOF |
| 412 | MECHANICAL PENTHOUSE |
| 413 | AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE. |
| 414 | GRAVEL STOP |



OVERALL NORTH ELEVATION
0 3 5 11 21
SCALE: 3/32"= 1'-0"



OVERALL SOUTH ELEVATION
0 3 5 11 21
SCALE: 3/32"= 1'-0"



OVERALL WEST ELEVATION
0 3 5 11 21
SCALE: 3/32"= 1'-0"

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B/W

OVERALL ELEVATIONS

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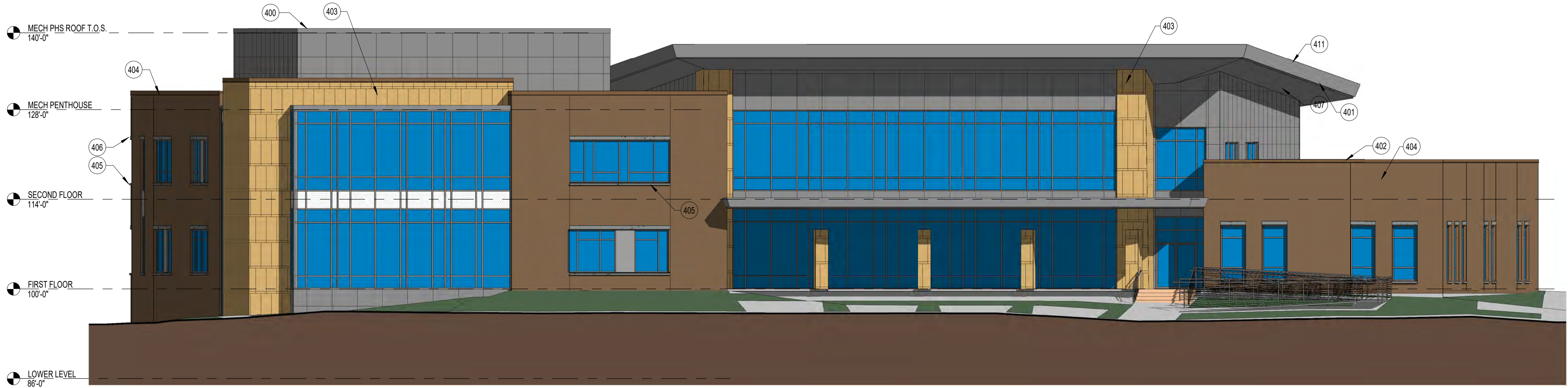
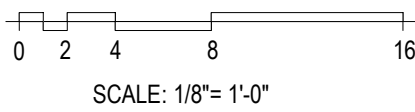
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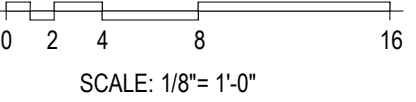
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OVERALL EAST ELEVATION



OVERALL NORTH ELEVATION



| EXTERIOR ELEVATION NOTES | |
|--------------------------|--|
| NOTE # | EXTERIOR ELEVATION NOTE |
| 400 | METAL FASCIA |
| 401 | METAL SOFFIT |
| 402 | METAL COPING |
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| 413 | AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE. |
| 414 | GRAVEL STOP |

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Job No: 170143-01
Sheet No.:
OVERALL ELEVATIONS - COLOR

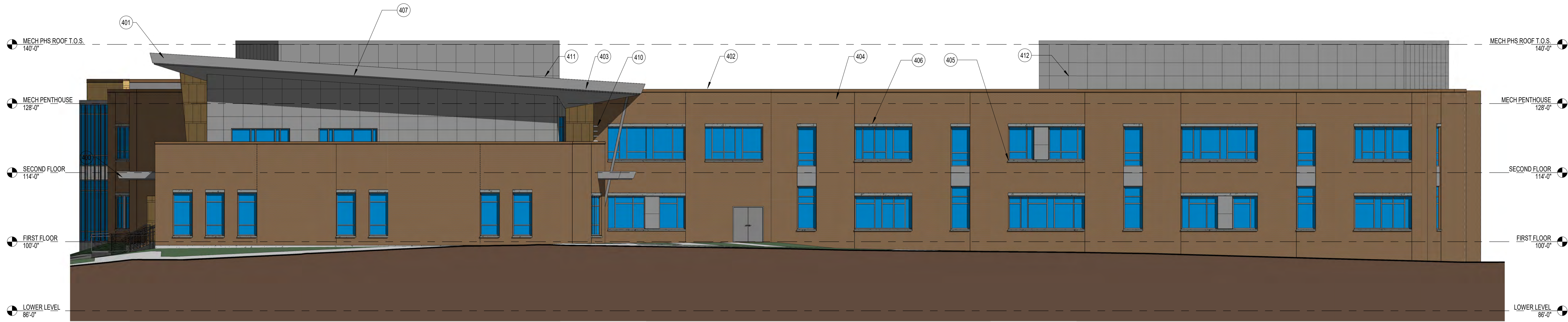
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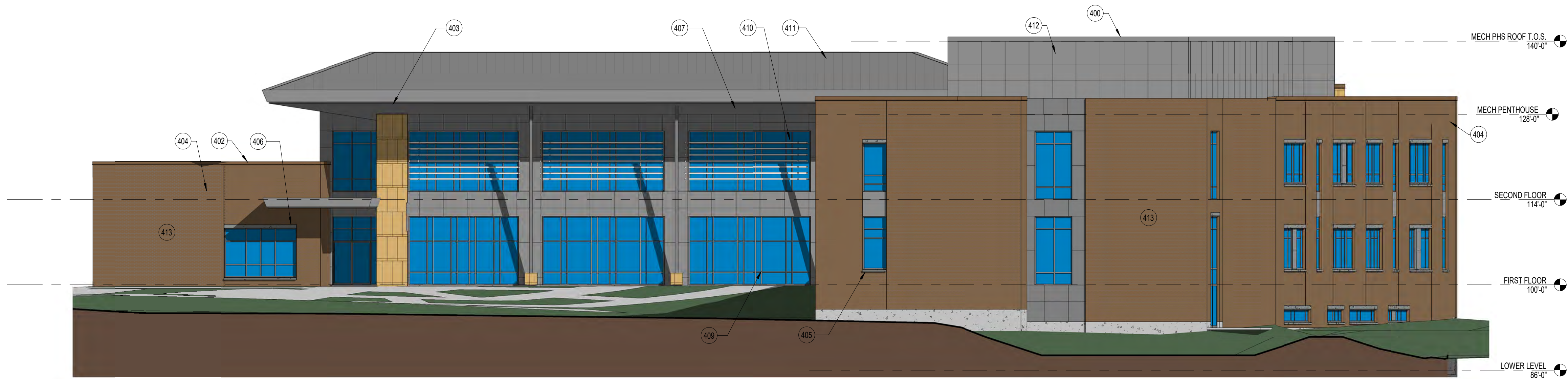
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OVERALL WEST ELEVATION

0 2 4 8 16

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



OVERALL SOUTH ELEVATION

0 2 4 8 16

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

| EXTERIOR ELEVATION NOTES | |
|--------------------------|--|
| NOTE # | EXTERIOR ELEVATION NOTE |
| 400 | METAL FASCIA |
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| 413 | AREA DEDICATED FOR BUILDING SIGNAGE, TO BE DETERMINED AT A LATER DATE. |
| 414 | GRAVEL STOP |

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W & S

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| Date: | 12/13/17 |
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| Sheet No.: | |

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View from Intersection of Badger Road and Park Street





North

SCALE
0 15 30

SCALE: 1" = 30'

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| Revisions: | |
| Plan Commission | |
| Date: | 17_1213 |
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| Sheet No.: | |

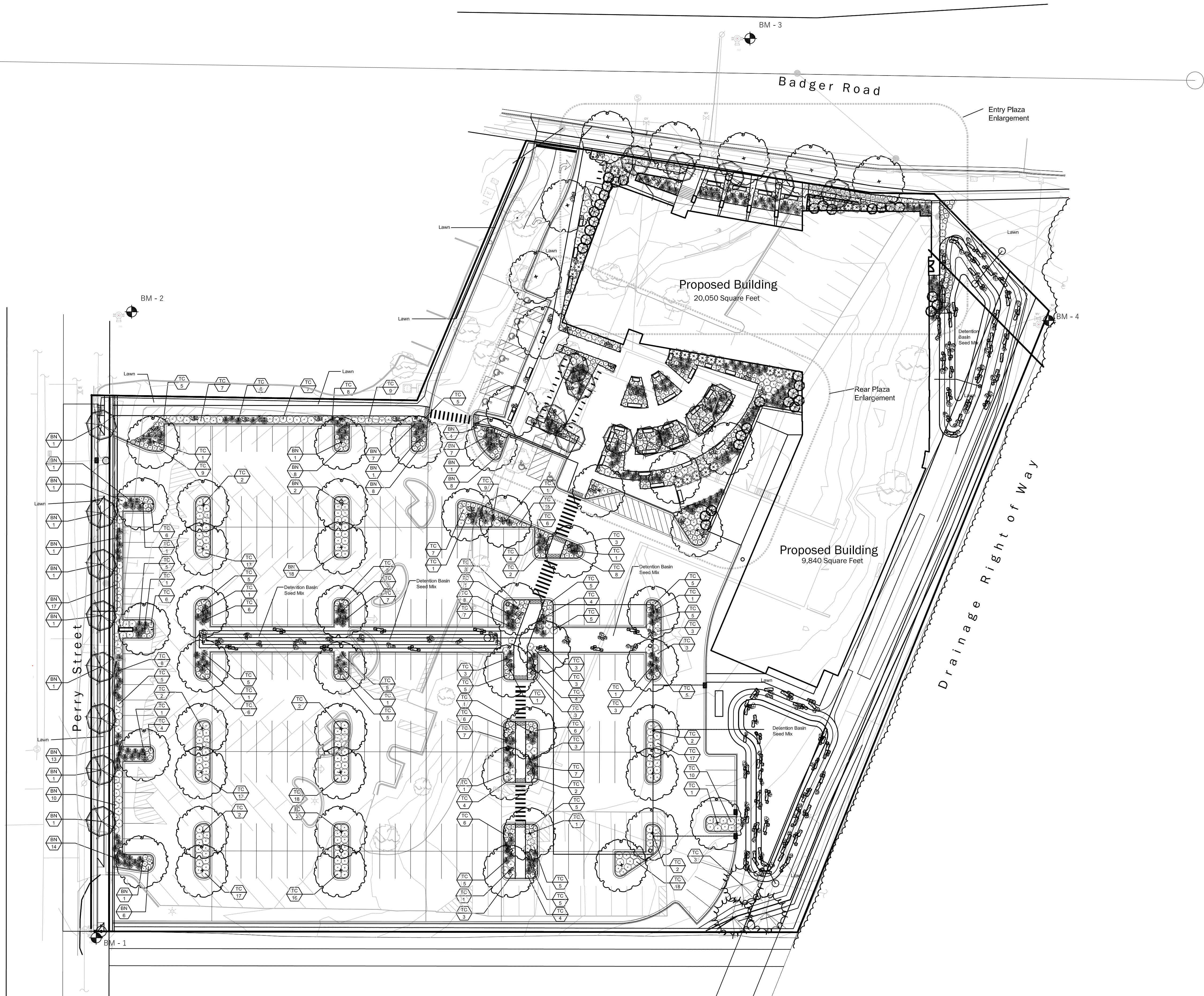
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North

SCALE
0 15 30

SCALE: 1" = 30'

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| Revisions: | |
| Plan Commission | |
| Date: | 17_1213 |
| Job No: | 17_PRA_01 |
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MADISON
AREA | TECHNICAL
COLLEGE

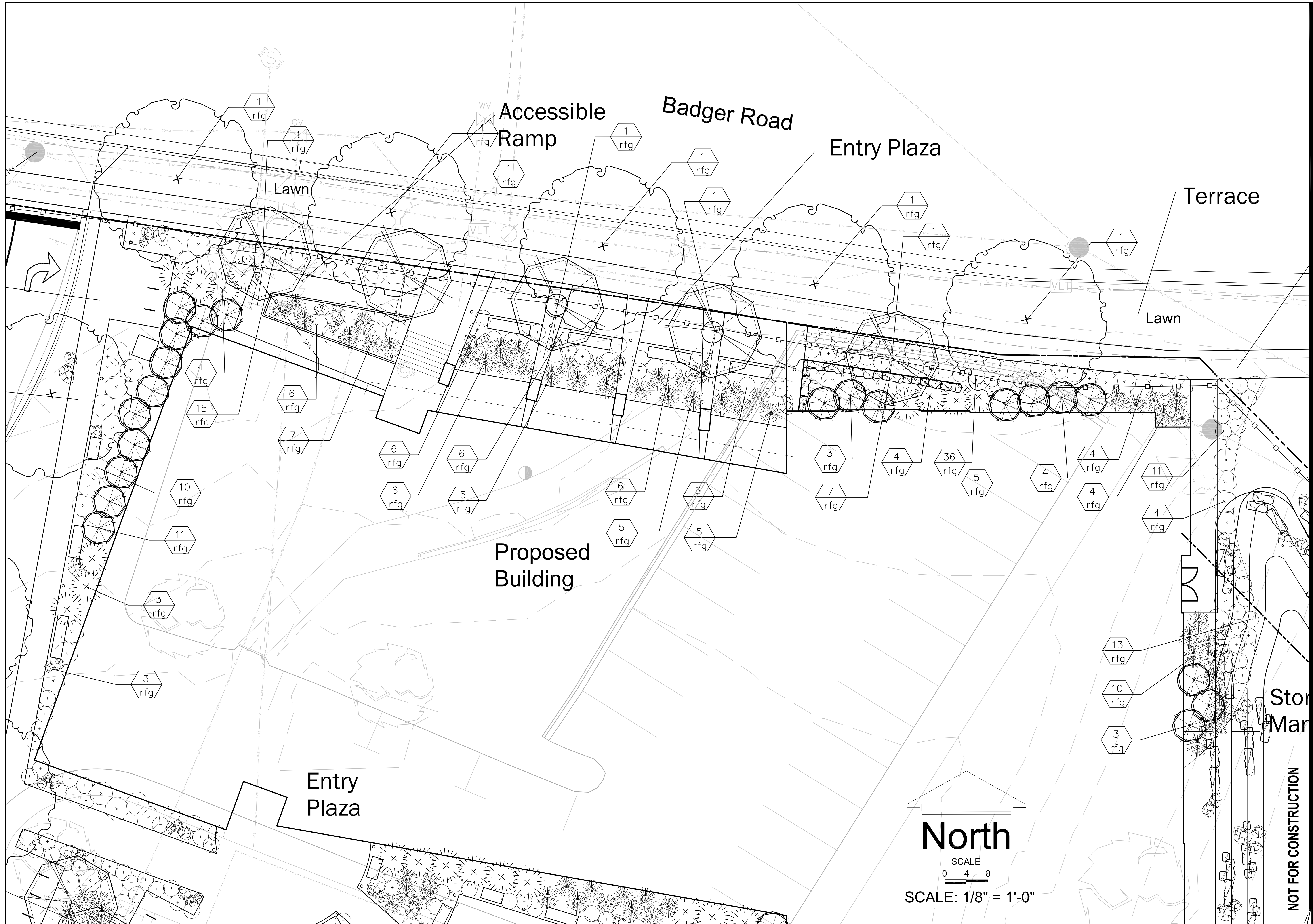
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MADISON
AREA | TECHNICAL
COLLEGE

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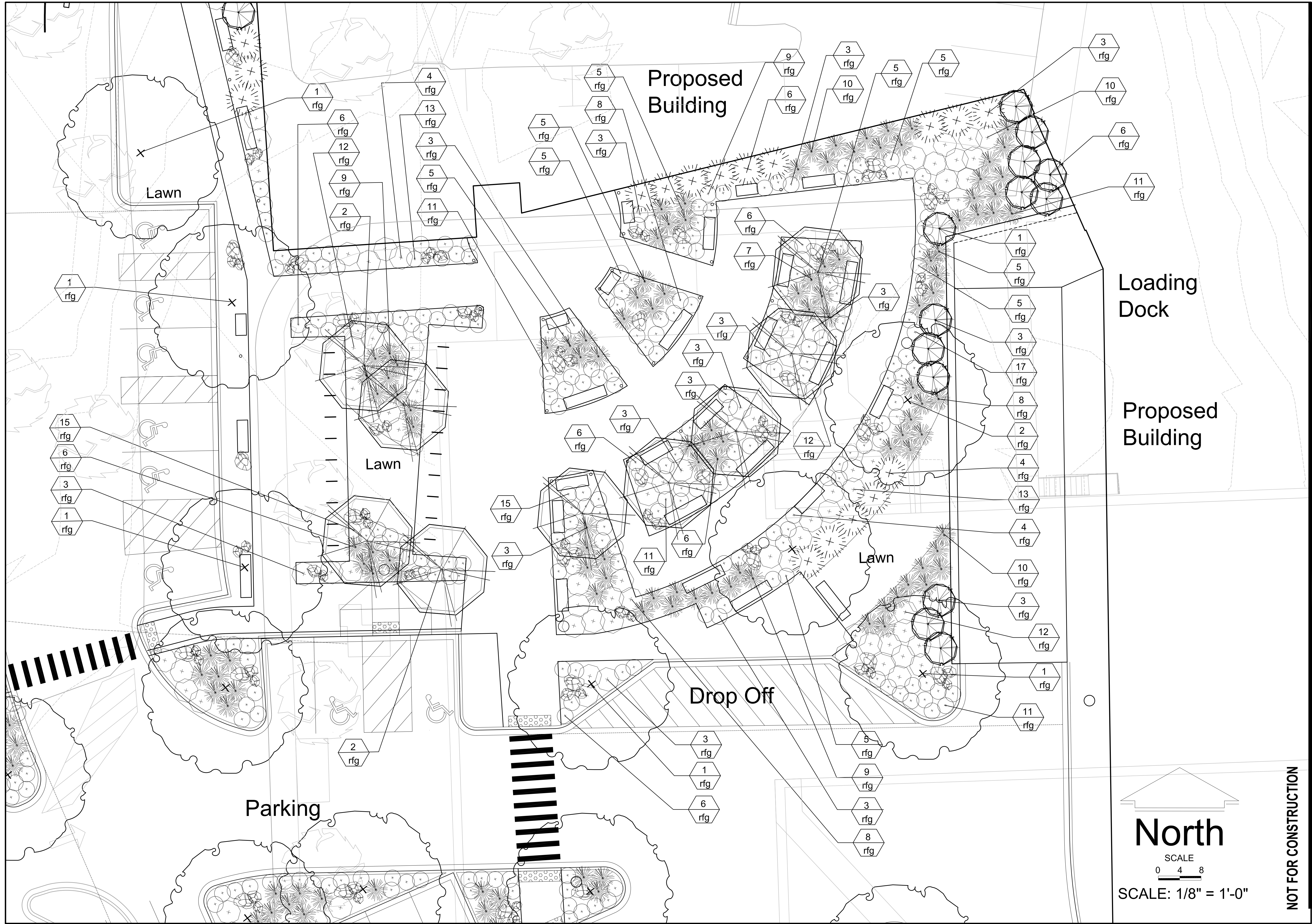
Revisions:
Plan Commission

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| Job No: | 17_PRA_01 |
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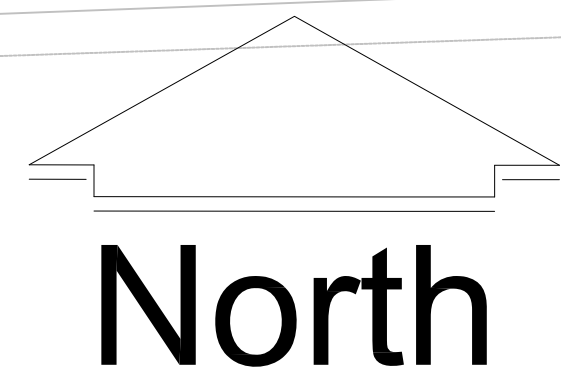
Entry Enlargement
Landscape Plan

L102

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SCALE
0 4 8

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

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Job No: 17_PRA_01
Sheet No:

Rear Entry
Enlargement
Landscape Plan

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L103

LANDSCAPE PLANT LEGEND

| Symbol | Botanical name | Common Name | Size | Root | Quantity | Remarks |
|------------------|---|-------------------------------------|-------------|-----------|----------|--|
| SHADE TREES | | | | | | |
| CE | Celtis occidentalis | Common Hackberry | 3" Cal. | B&B | | |
| CO | Carya ovata | Shagbark Hickory | 3" Cal. | B&B | | |
| FG | Fagus grandifolia | American Beech | 3" Cal. | B&B | | Multi-stem Tree 3 Trunks- Min 1 1/2" Cal. |
| GB | Ginko biloba | Ginko Tree | 3" Cal. | B&B | | |
| GD | Gymnocladus dioicus | Kentucky Coffeetree | 3" Cal. | B&B | | |
| PA | Platanus x acerfolia | American Sycamore | 3" Cal. | B&B | | |
| QB | Quercus bicolor | Swamp White Oak | 3" Cal. | B&B | | |
| QM | Quercus macrocarpa | Bur Oak | 3" Cal. | B&B | | |
| QR | Quercus rubra | Red Oak | 3" Cal. | B&B | | |
| TT | Tilia tomentosa | Silver Linden | 3" Cal. | B&B | | |
| UP | Ulmus x 'Pioneer' | Pioneer Elm | 3" Cal. | B&B | | |
| EVERGREEN TREES | | | | | | |
| PG | Picea glauca | White Spruce | 6" - 8' HT. | B&B | | |
| PM | Pseudotsuga menziensii | Douglas Fir | 6" - 8' HT. | B&B | | |
| PN | Pinus nigra | Austrian Pine | 6" -8' HT. | B&B | | |
| PS | Pinus strobus | Eastern White Pine | 6" -8' HT. | B&B | | |
| TC | Tsuga canadensis | Canadian Hemlock | 4' -8' HT. | B&B | | |
| ORNAMENTAL TREES | | | | | | |
| AC | Amelanchier canadensis | Shadblow Serviceberry | 5-6' HT. | B&B | | |
| CC | Carpinus caroliniana | American Hornbeam (Musclewood) | 2"-3"Cal. | B&B | | |
| CA | Cornus alternifolia | Pagoda Dogwood | 5-6' HT. | B&B | | |
| CK | Cornus kousa | Kousa Dogwood | 5-6' HT. | B&B | | |
| CI | Crataegus crus-galli var inermis | Thornless Cockspur Hawthorn | 2" Cal. | B&B | | |
| OV | Ostrya virginiana | American Hophornbean | 2"-3" Cal. | B&B | | |
| PV | Prunus virginiana 'Schubert' | Canada Red Chokecherry | 2" Cal. | B&B | | |
| VL | Viburnum lentago | Nannyberry Viburnum | 2" Cal. | B&B | | |
| VP | Viburnum prunifolium | Blackhaw Viburnum | 6-8' HT. | B&B | | Multi-stem Tree, 3 Trunks- Min 1" Cal. |
| SHRUBS | | | | | | |
| Cc | Caryopteris x clandonensis Arthur Simmonds | Arthur Simmonds Caryopteris | 3 gal | Pot | | |
| Cf | Calamagrostis x acutiflora 'Karl Foerster' | Karl Foerster Feather Reed Grass | 2 Gal. | CG | | |
| Fs | Forsythia x 'Sunrise' | Sunrise Forsythia | 3 gal | Pot | | |
| Hk | Hypericum kalmianum | St. Johns Wort | 3 gal | Pot | | |
| Kj | Kerria Japonica | Japenese Kerria | 2 gal. | Pot | | |
| Pa | Pennisetum alopecuroides 'Hameln' | Dwarf Fountain Grass | 2 Gal. | CG | | |
| Pv | Panicum virgatum 'Shenandoah' | Shenandoah Swith Grass | 2 Gal. | CG | | |
| Ra | Rhus aromatica 'Grow Low' | 'Gro low' Sumac | 2 gal | Container | | |
| Rg | Rhus glabara | Smooth Sumac | 5 gal | Pot | | |
| Vj | Viburnum x juddi | Judd Viburnum | 5 gal | B&B | | |
| Vt | Viburnum trilobum | American Cranberrybush Viburnum | 5 gal | B&B | | |

| | | | | | | |
|---|---|-------------------------------|--------|-----------|--|---------|
| EVERGREEN SHRUBS | | | | | | |
| Iv | Illex veticillata | Winterberry | 5 Gal. | CG | | |
| Jr | Juniperus ramlosa | Ramlosa juniper | 5 Gal. | CG | | |
| Tm | Taxus tauntonii | Taunton yew | 5 Gal. | CG | | |
| PERENNIALS | | | | | | |
| abs | Amsonia 'Blue Starflower' | Blue Starflower | 1 Gal. | Container | | 30"O.C. |
| aaf | Astilbe x arendsii 'Fanal' | Fanal Astilbe | 1 Gal. | Container | | 15"O.C. |
| apd | Aster novae-angliae 'Purple Dome' | Purple Dome | 1 Gal. | Container | | 24"O.C. |
| asr | Aster novae-angliae 'September Ruby' | September Ruby Aster | 1 Gal. | Container | | 24"O.C. |
| bec | Bergenia cordifolia | Heartleaf Bergenia | 1 Gal. | Container | | 15"O.C. |
| cca | Catananche caerulea | Cupids Dart | 1 Gal. | Container | | 12"O.C. |
| cvz | Coreopsis verticillata 'Zagreb' | Zagreb Coreopsis | 1 Gal. | Container | | 18"O.C. |
| epm | Echinacea purpurea 'Magnus' | Magnus Purple Coneflower | 1 Gal. | Container | | 36"O.C. |
| ise | Iberis sempervirens | Candytoft | 1 Gal. | Container | | 15"O.C. |
| lpy | Liatrus pyncostachya | Prairie Blazingstar | 1 Gal. | Container | | 18"O.C. |
| lla | Limonium latifolium | Sea Lavender | 1 Gal. | Container | | 24"O.C |
| mpd | Monarda 'Petite Delight' | Petite Delight Beebalm | 1 Gal. | Container | | 24"O.C |
| rfg | Rudbeckia fulgida 'Goldstrum' | Goldstrum Black-eyed Susan | 1 Gal. | Container | | 18"O.C. |
| Detention Basin Seed Mix | | | | | | |
| The species in this mix designed by Prairie Nursery of Westfield,Wisconsin (or approved equal) grow naturally in medium-moist prairies, making them the perfect for temporarily flooded areas that also dry out in summer. Designed for planting in basins that are flooded for 24-48 hours, and then drain out. This mix is particularly well adapted to loamy and clay soils. For detention basins in sandy soils, we recommend planting our Tall Prairie for Dry Soils Seed Mix. | | | | | | |
| WILDFLOWERS: Nodding Pink Onion, Red Milkweed, New England Aster, White False Indigo, Pale Indian Plantain, Wild Senna, Joe Pye Weed, Boneset, Dogtooth Daisy, Ox Eye Sunflower, Wild Iris, Blue Flag Iris, Prairie Blazingstar, Dense Blazingstar, Great Blue Lobelia, Bergamot, Yellow Coneflower, Black Eyed Susan, Sweet Black Eyed Susan, Brown Eyed Susan, Rosinweed, Cupplant, Prairie Dock, Ohio Goldenrod, Stiff Goldenrod, Blue Vervain, Ironweed, Golden Alexanders | | | | | | |
| GRASSES: Big Bluestem, Bebb's Sedge, Bottlebrush Sedge, Porcupine Sedge, Awl Fruited Sedge, Fox Sedge, Canada Wild Rye, Virginia Wild Rye, Switchgrass, Dark Green Bulrush, Indiangrass, Prairie Cordgrass, Annual Rye Nurse Crop | | | | | | |
| Contains at least 20 wildflowers and 8 or more grasses, sedges & bulrushes, plus annual rye | | | | | | |



CITY OF MADISON
LANDSCAPE WORKSHEET

Section 28.142 Madison General Ordinance

Project Location / Address 801 Badger Road, Madison, WI 53713

Name of Project Madison College South Campus

Owner / Contact Mike Stark

Contact Phone _____ Contact Email MStark@madisoncollege.edu

**** Landscape plans for zoning lots greater than ten thousand (10,000) square feet in size MUST be prepared by a registered landscape architect. ****

Landscape Calculations and Distribution

Required landscaped areas shall be calculated based upon the total developed area of the property. Developed area is defined as all parts of the site that are not left in a natural state within a single contiguous boundary, including building footprints, parking and loading areas, driveways, internal sidewalks, patios, and outdoor activity areas. Developed area does not include other land within required setbacks and natural areas on the same property that are left undisturbed.

(a) One (1) landscape unit shall be provided for each three hundred (300) square feet of developed area, with the exception of the IL and the IG districts as specified in (b) below.

Total square footage of developed area 194,683

Developed area divided by three hundred (300) square feet = 649 Landscape Units

(b) Within the Industrial – Limited (IL) and Industrial – General (IG) districts, one (1) landscape unit shall be provided for every six hundred (600) square feet of developed area.

Total square footage of developed area _____

Developed area divided by six hundred (600) square feet = _____ Landscape Units

(c) One landscape unit consists of five (5) landscape points. Landscape points are calculated as shown in the following table.

Landscape units multiplied by five (5) landscape points = 3245 Total Points Required

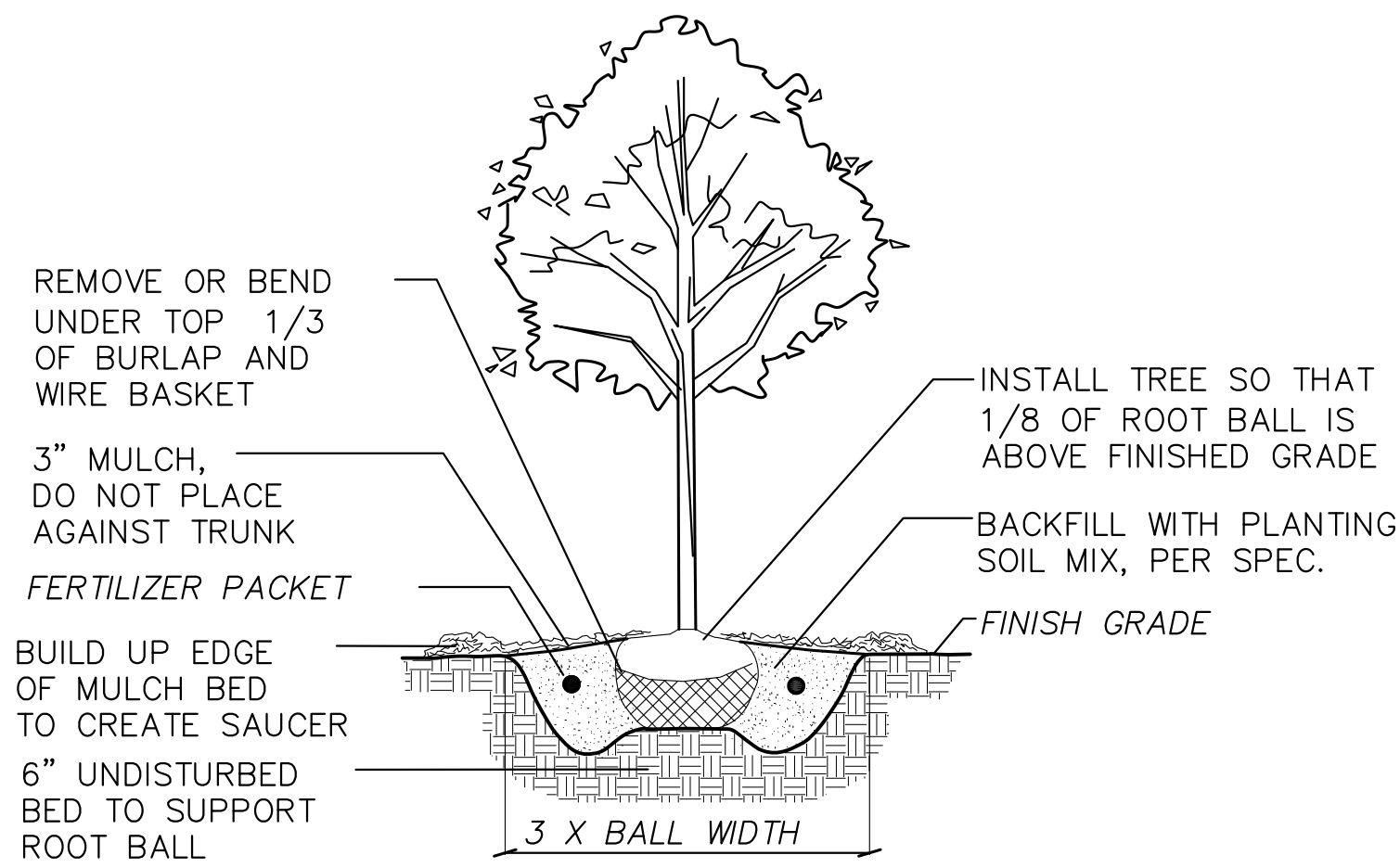
Tabulation of Points and Credits

Use the table to indicate the quantity and points for all existing and proposed landscape elements. **Calculations yielding a fraction up to one-half (1/2 or 0.5) shall be rounded down to the nearest whole number; fractions of more than one half (1/2) shall be rounded up.**

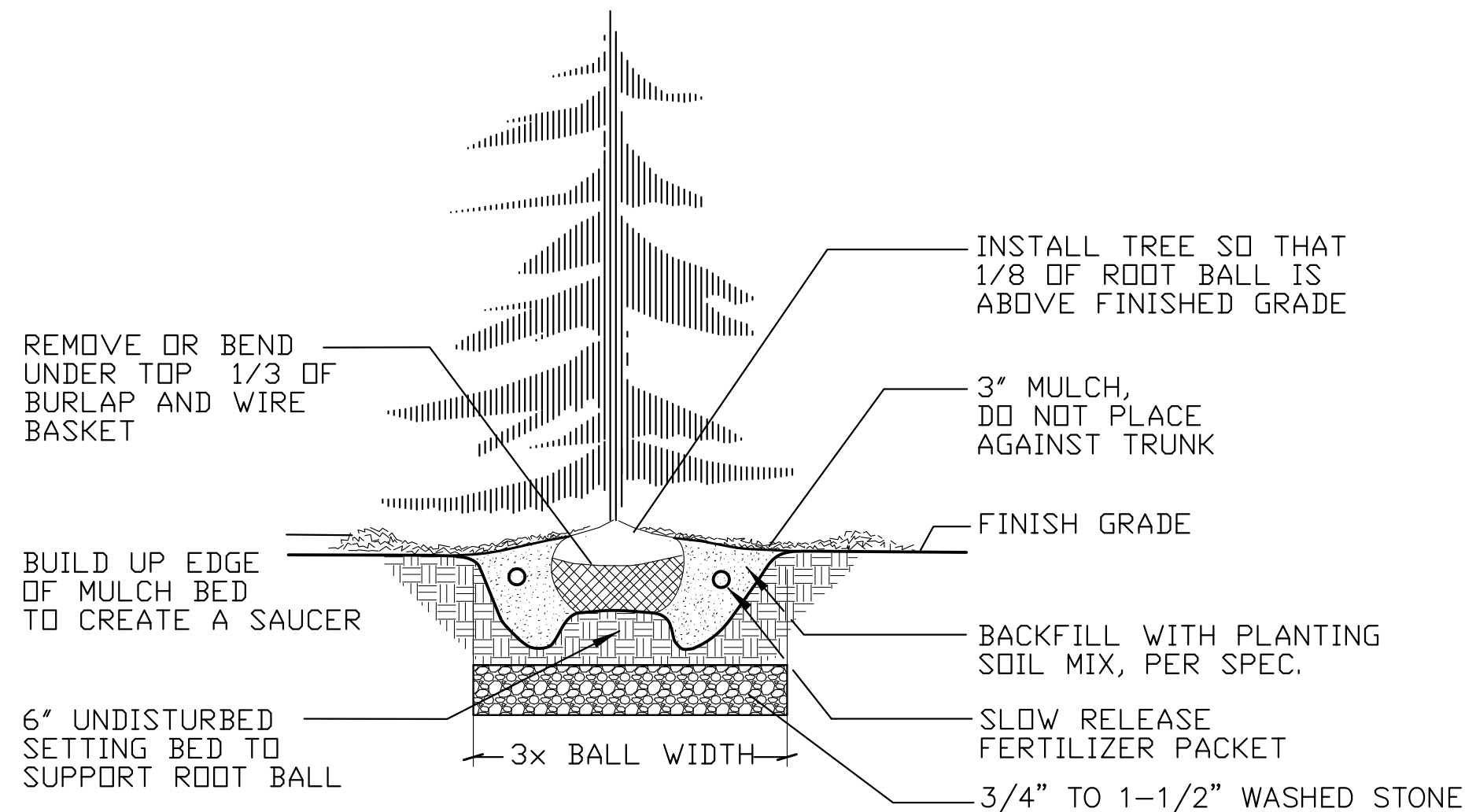
| Plant Type/ Element | Minimum Size at Installation | Points | Credits/ Existing Landscaping | | New/ Proposed Landscaping | |
|--|--------------------------------|---------------------|-------------------------------|-----------------|---------------------------|-----------------|
| | | | Quantity | Points Achieved | Quantity | Points Achieved |
| Overstory deciduous tree | 2½ inch caliper | 35 | | | 51 | 1785 |
| Ornamental tree | 1 1/2 inch caliper | 15 | | | 22 | 330 |
| Evergreen tree | 3 feet tall | 15 | | | 3 | 45 |
| Shrub, deciduous | 18" or 3 gallon container size | 2 | | | 356 | 1068 |
| Shrub, evergreen | 18" or 3 gallon container size | 3 | | | 18 | 54 |
| Ornamental grasses | 18" or 3 gallon container size | 2 | | | 277 | 554 |
| Ornamental/ decorative fencing or wall | n/a | 4 per 10 lineal ft. | | | | |
| Sub Totals | | | | | | 3836 |

Total Number of Points Provided 3836

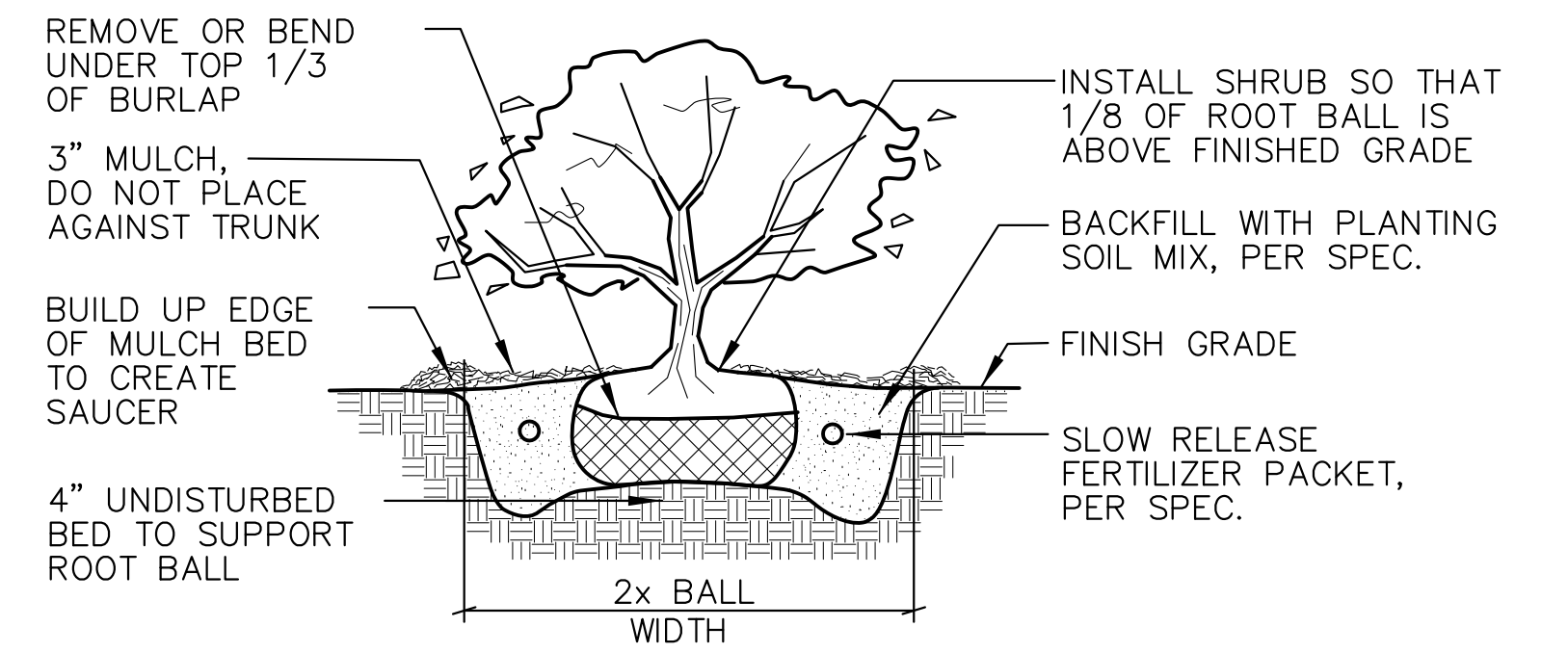
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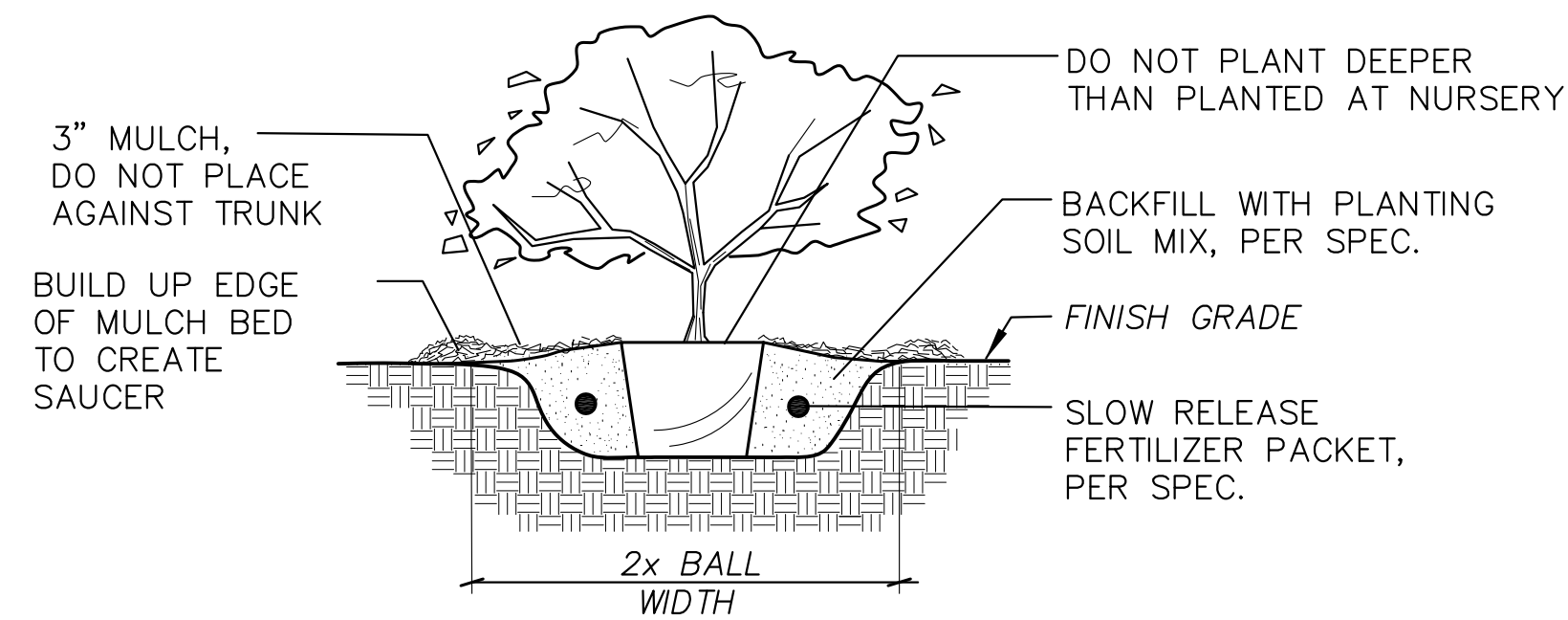
1 B&B TREE PLANTING DETAIL
L105 NTS



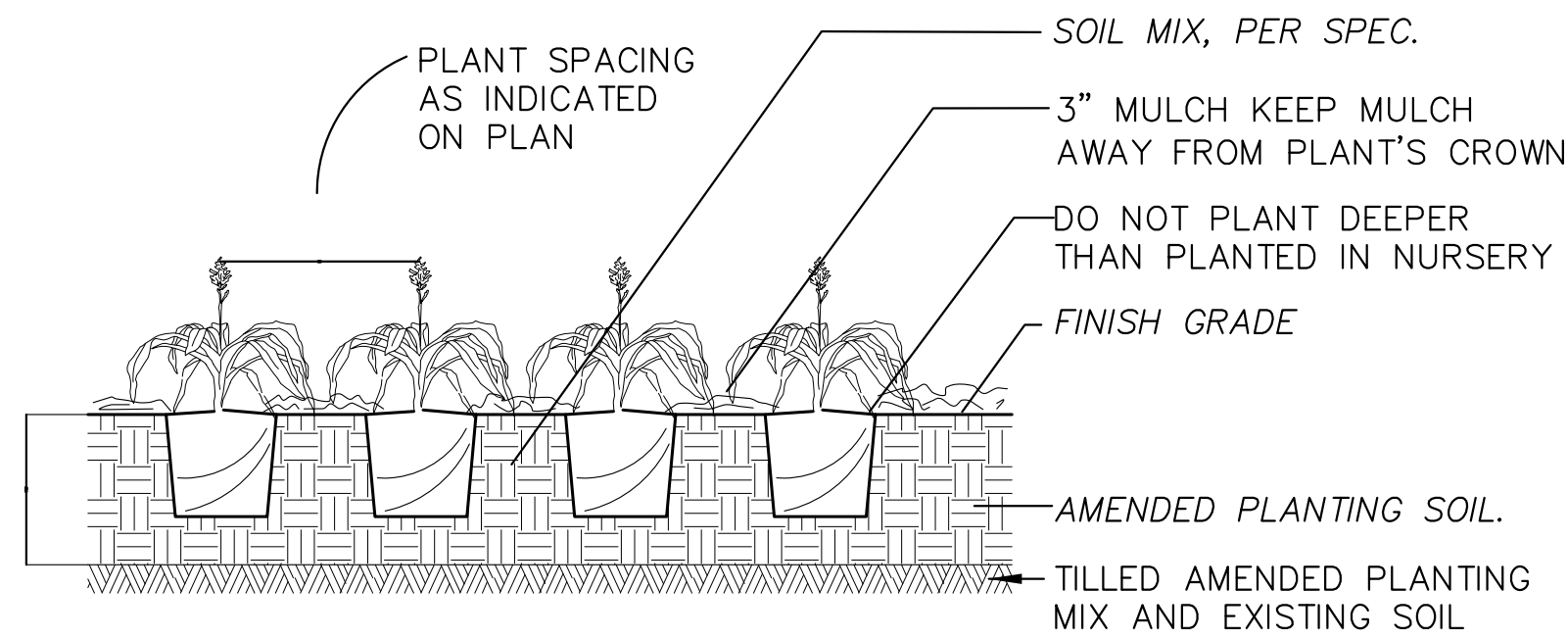
2 B&B EVERGREEN TREE PLANTING DETAIL
L105 NTS



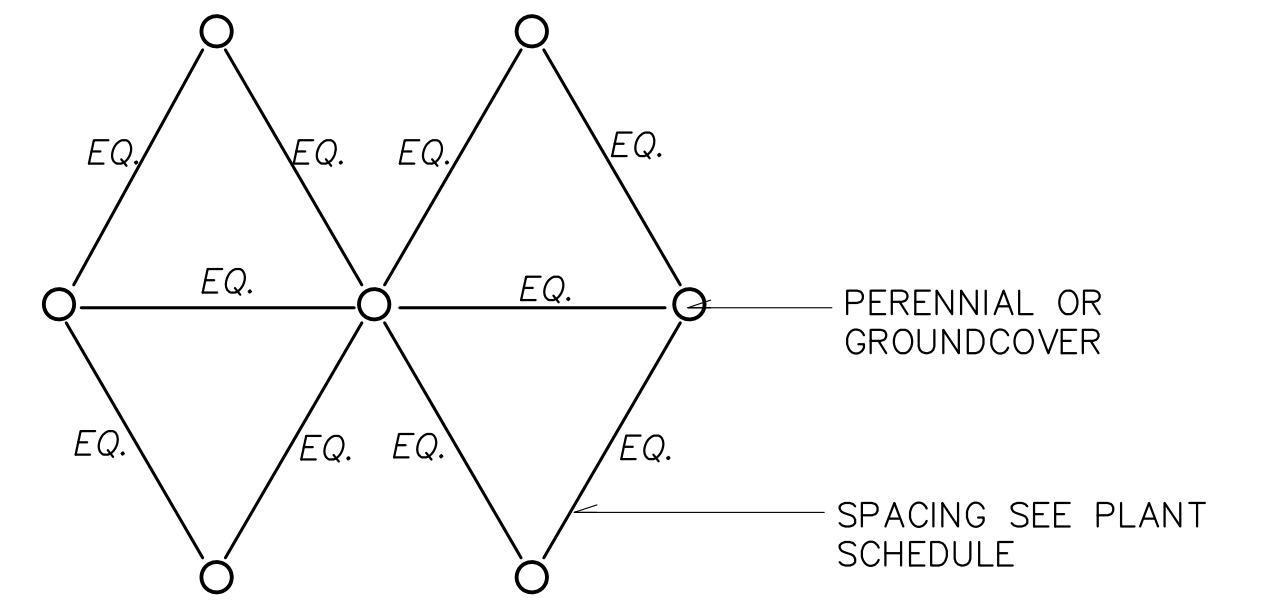
3 B&B SHRUB PLANTING DETAIL
L105 NTS



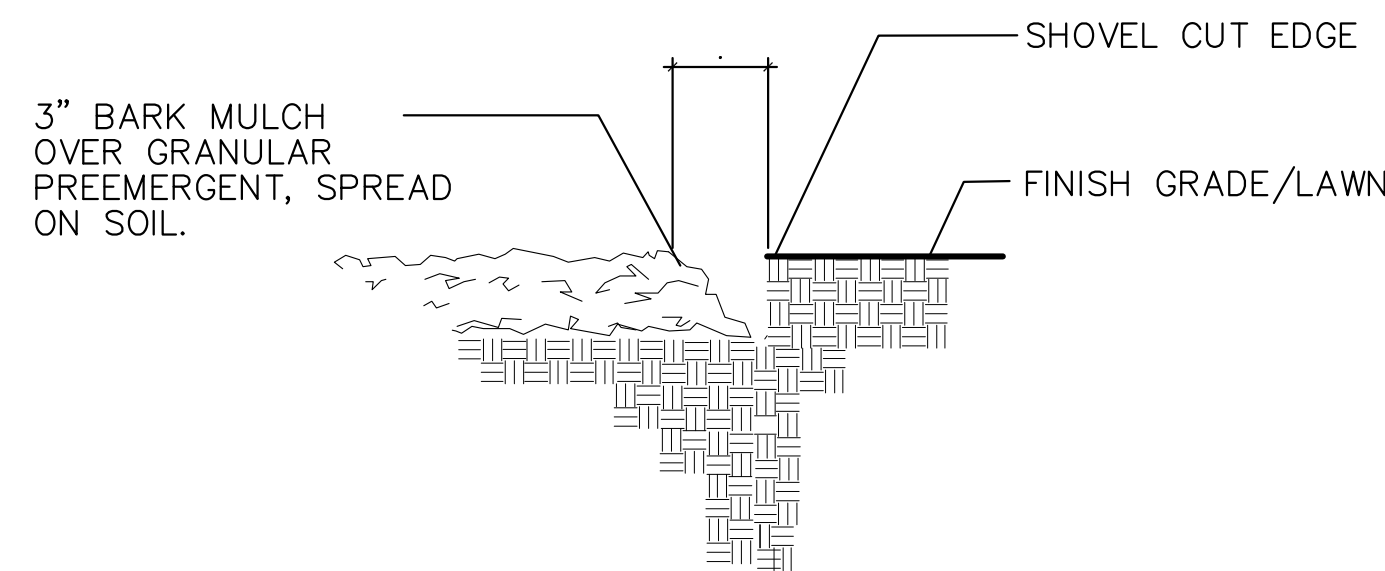
4 CONTAINER PLANTING DETAIL
L105 NTS



5 GROUNDCOVER / PERENNIAL PLANTING DETAIL
L105 NTS



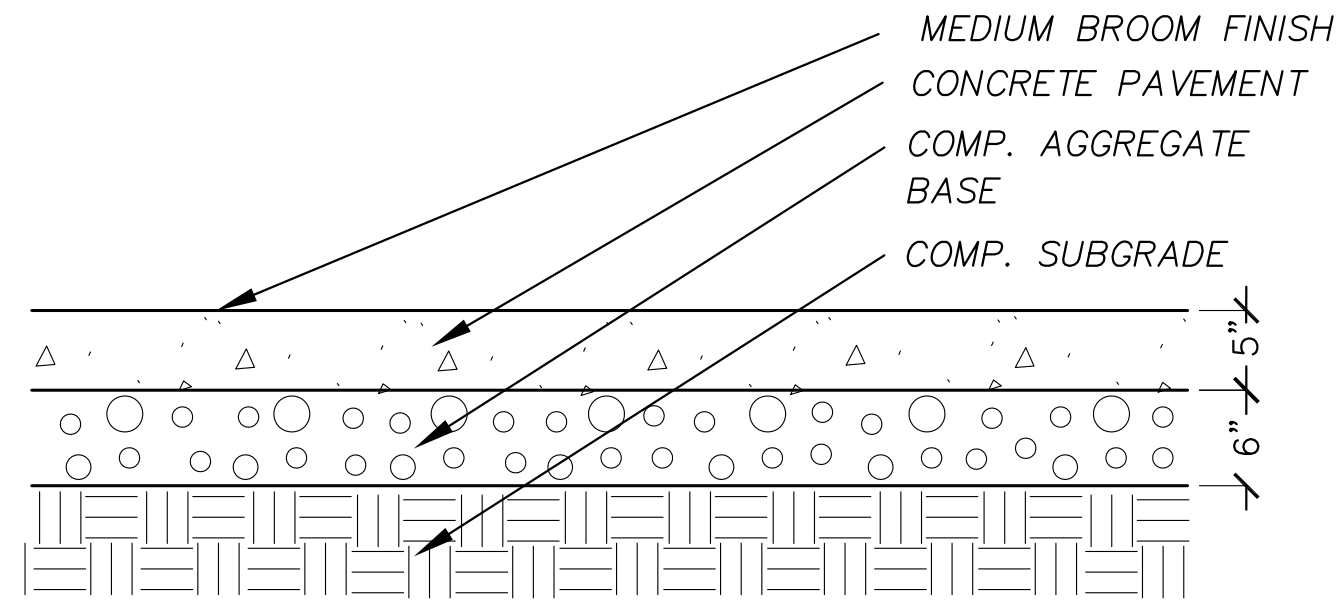
6 PERENNIAL/GROUNDCOVER SPACING DETAIL
L105 NTS



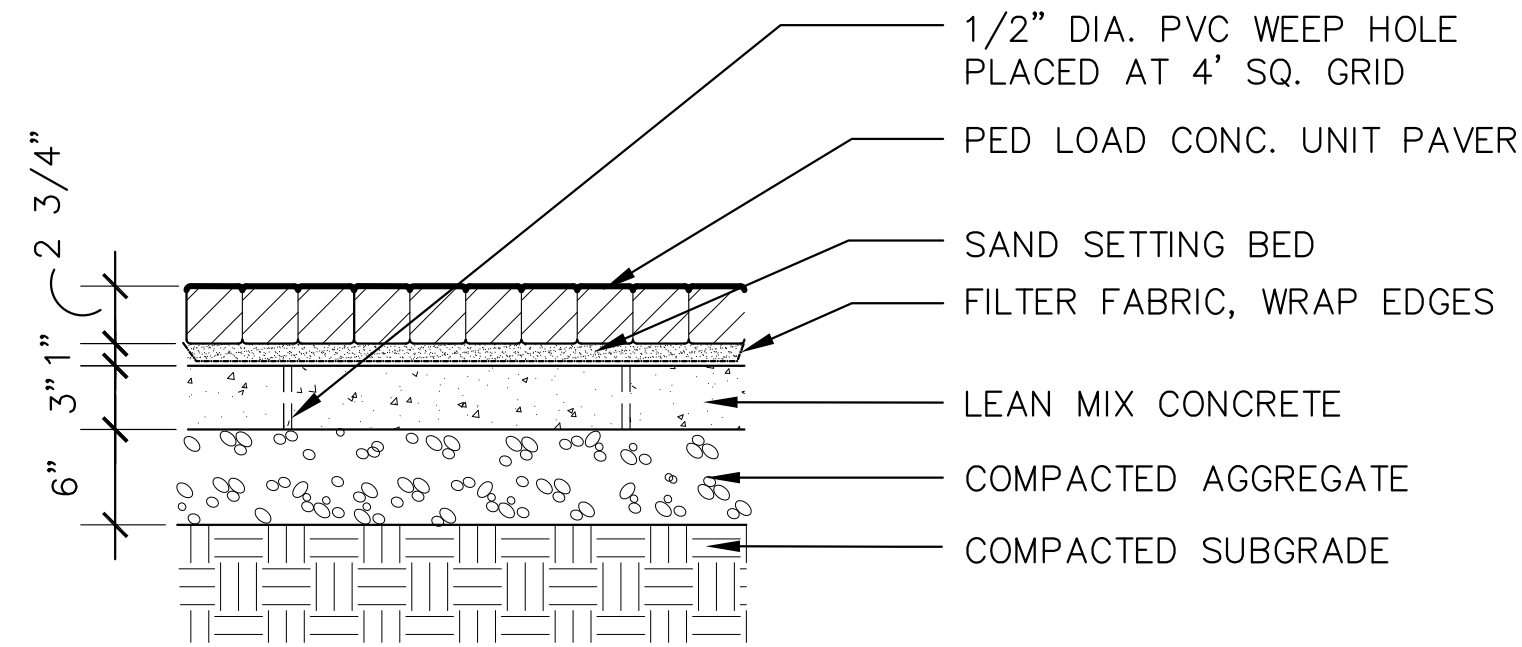
7 BARK MULCH/SHOVEL CUT EDGE DETAIL
L105 NTS

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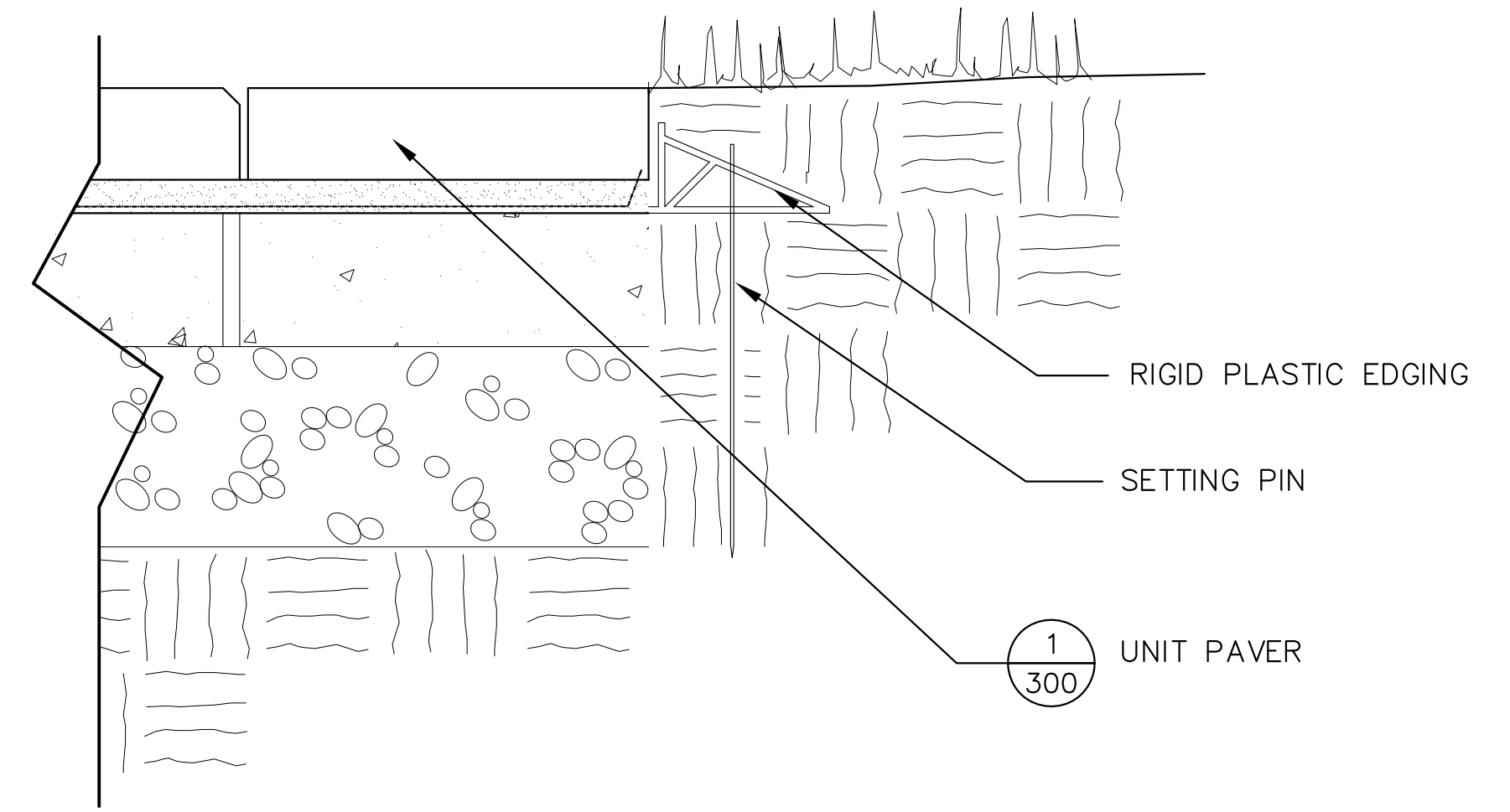
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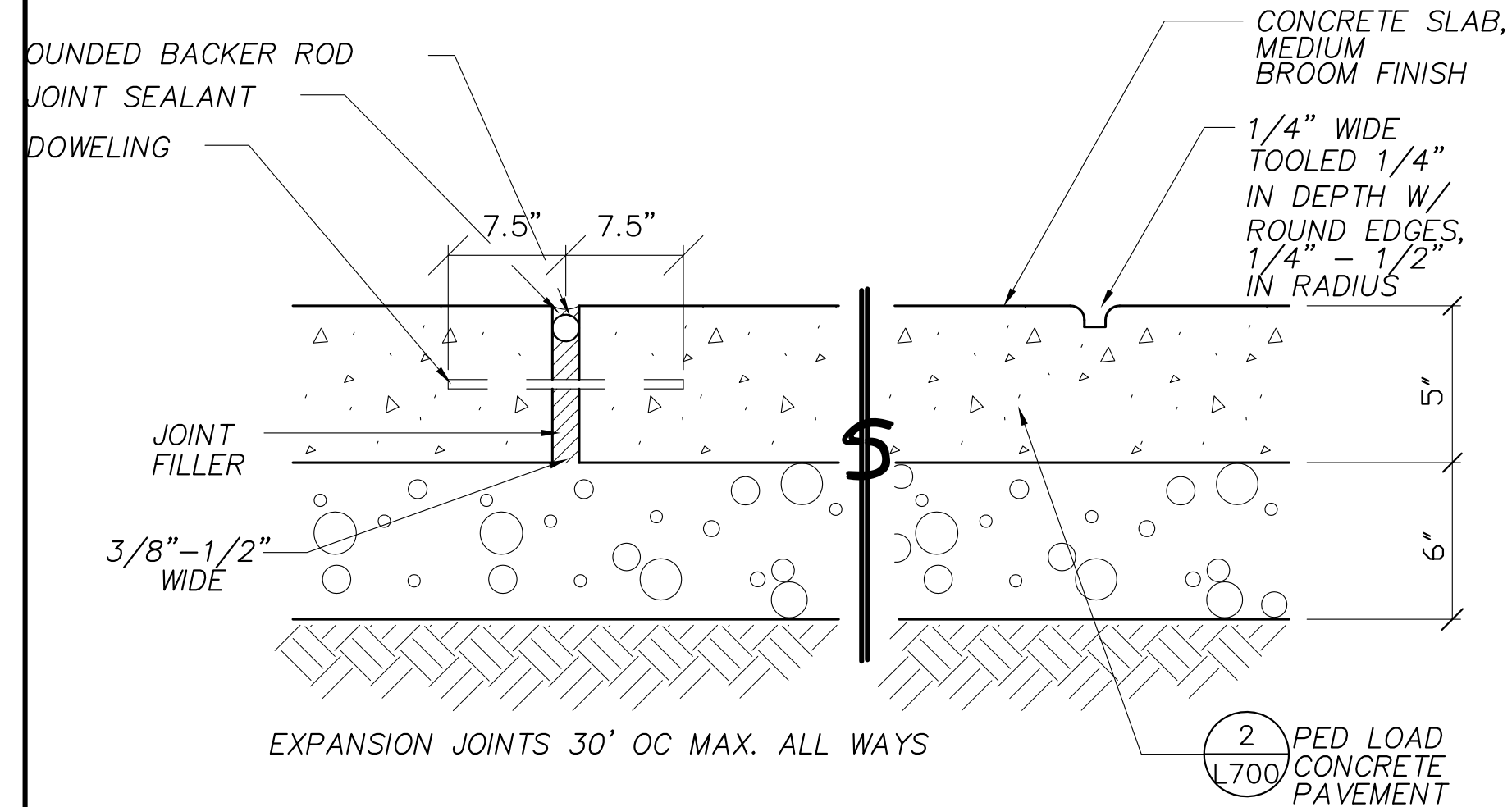
1 PED LOAD CONCRETE PAVEMENT—SECTION
L106 NTS



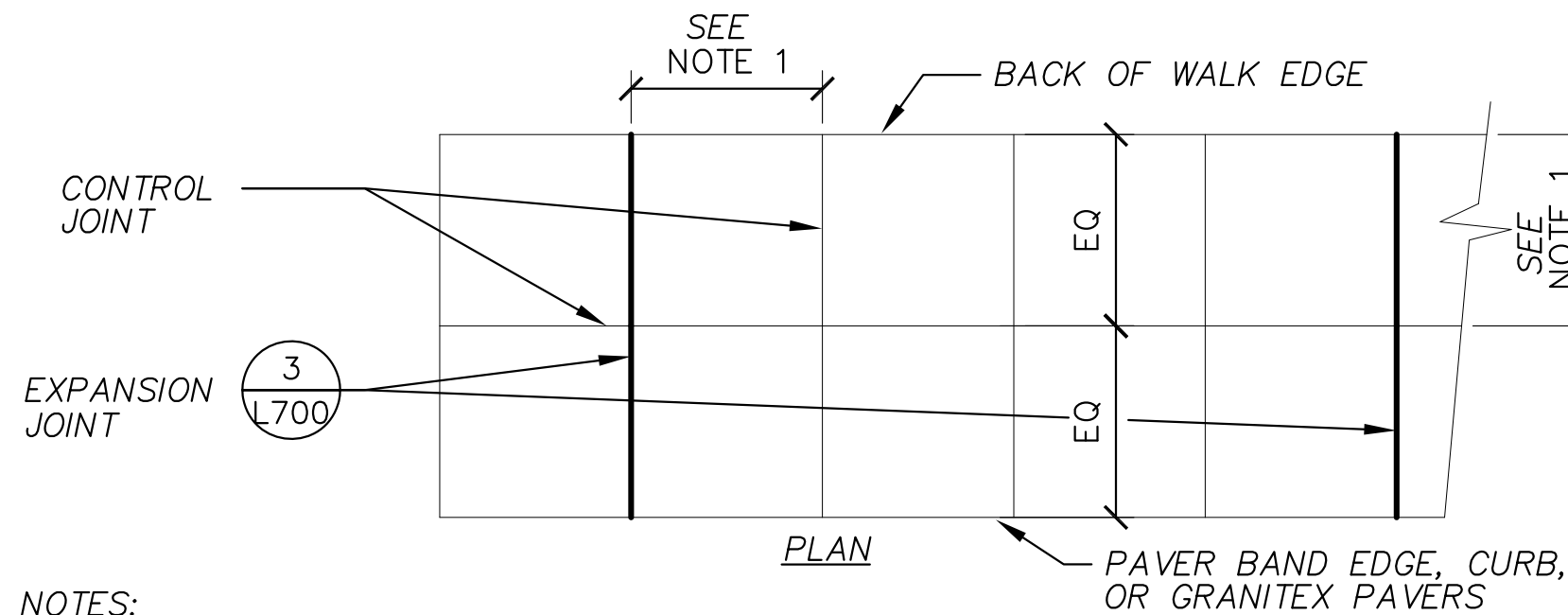
2 PED LOAD UNIT PAVER BAND — SECTION
L106 NTS



3 UNIT PAVER RESTRAINING EDGE
L106 SECTION SCALE 1/2"=1'-0" NTS

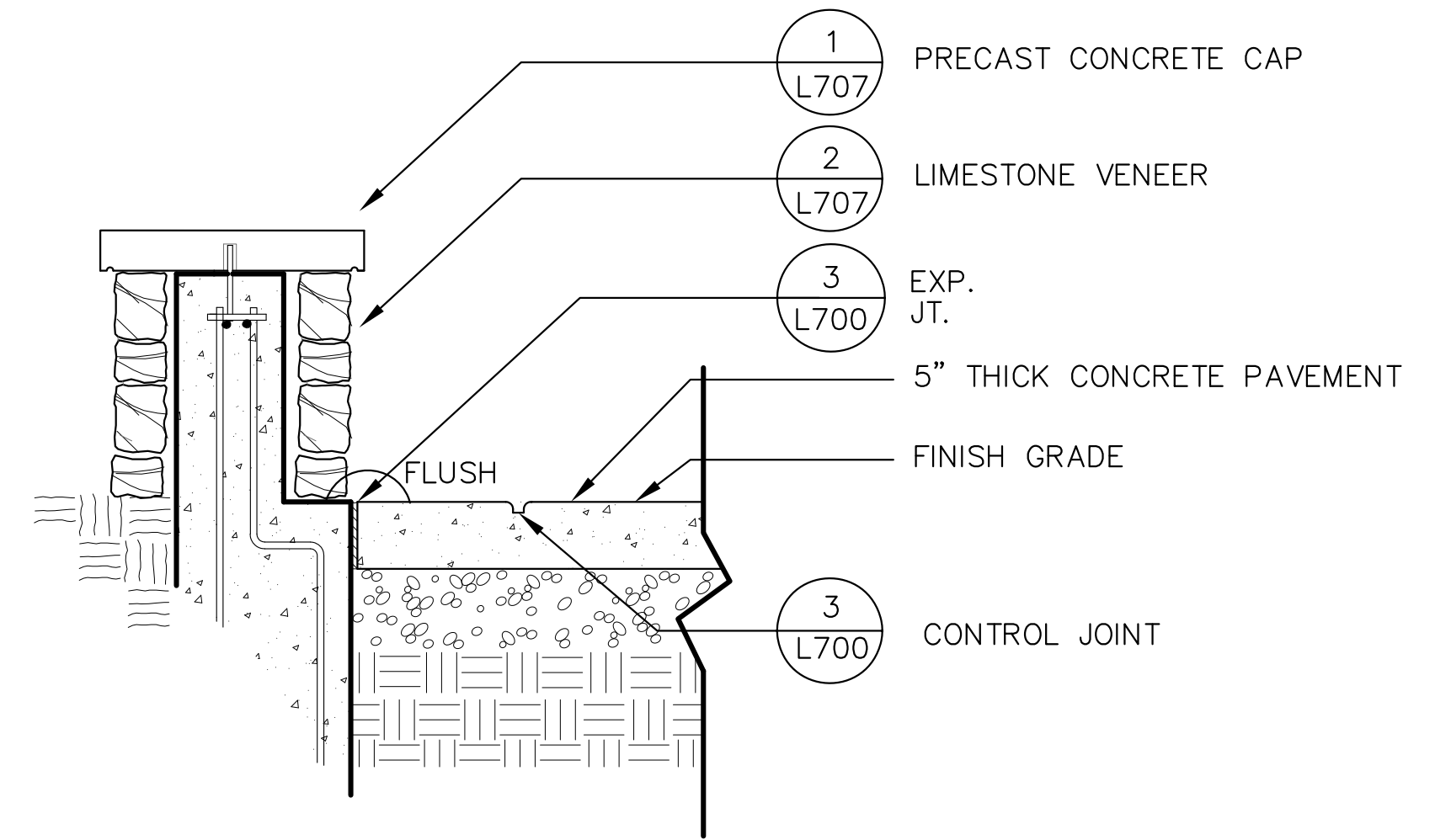


4 EXPANSION/CONTROL JOINT—SECTION
L106 NTS

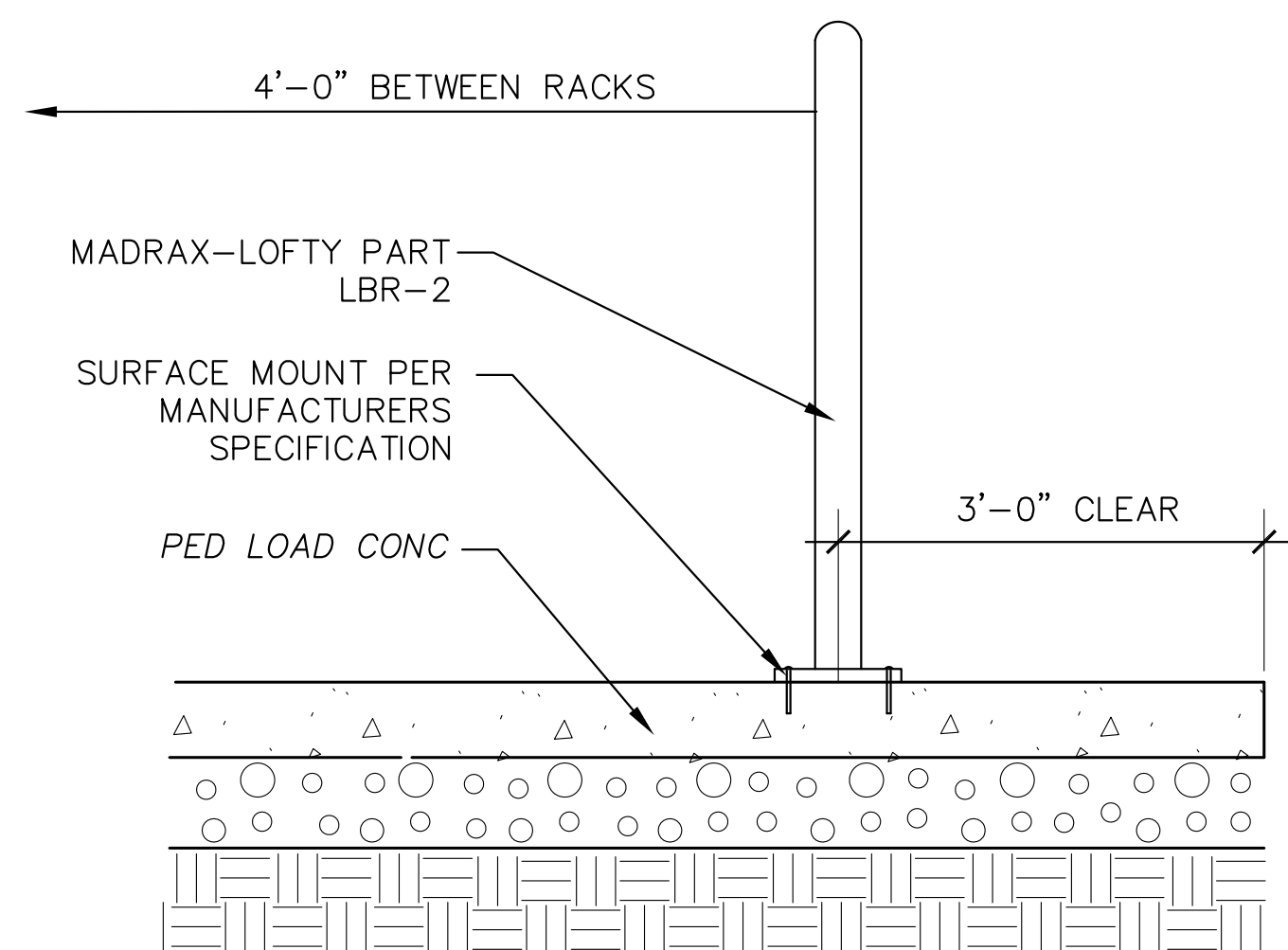


NOTES:
1. FOR 12' WIDE PATH CONTRACTION JOINTS @ 6'-0" O.C., FOR 10' WIDE PATH CONTRACTION JOINTS @ 5'-0" O.C., FOR 8' WIDE PATH CONTRACTION JOINTS @ 4'-0".
2. EXPANSION JOINTS FOR ALL WIDTHS TO BE AT 30' O.C. MAX. ALWAYS. (SEE LAYOUT PLANS FOR ADDITIONAL SCORING PATTERN DETAILS)
3. EXPANSION JOINTS SHALL BE CONSTRUCTED OF PREFORMED JOINT FILLER OR AS SPECIFIED. COLOR TO MATCH PAVEMENT COLOR.

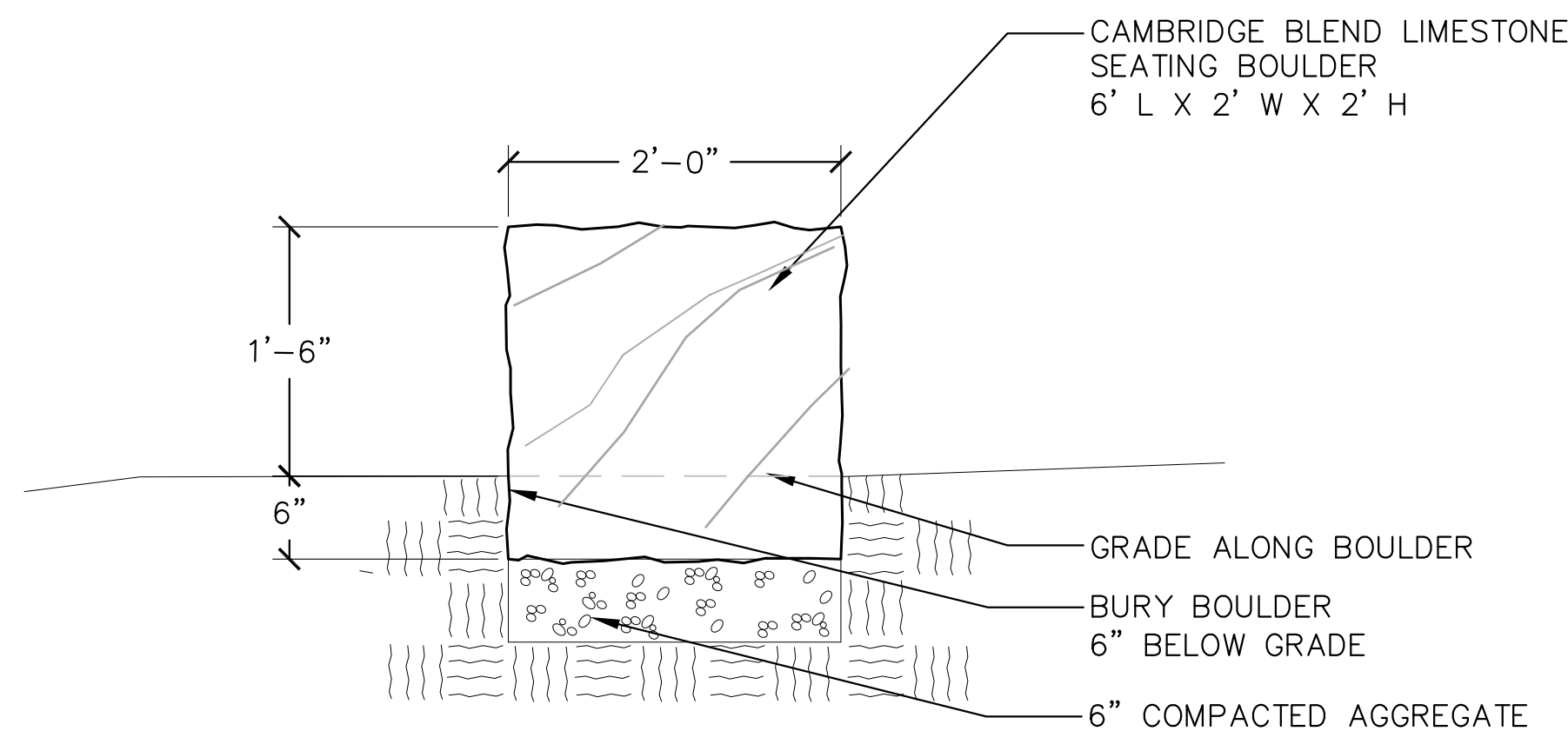
5 CONCRETE PAVEMENT SCORE PATTERN—PLAN
L106 NTS



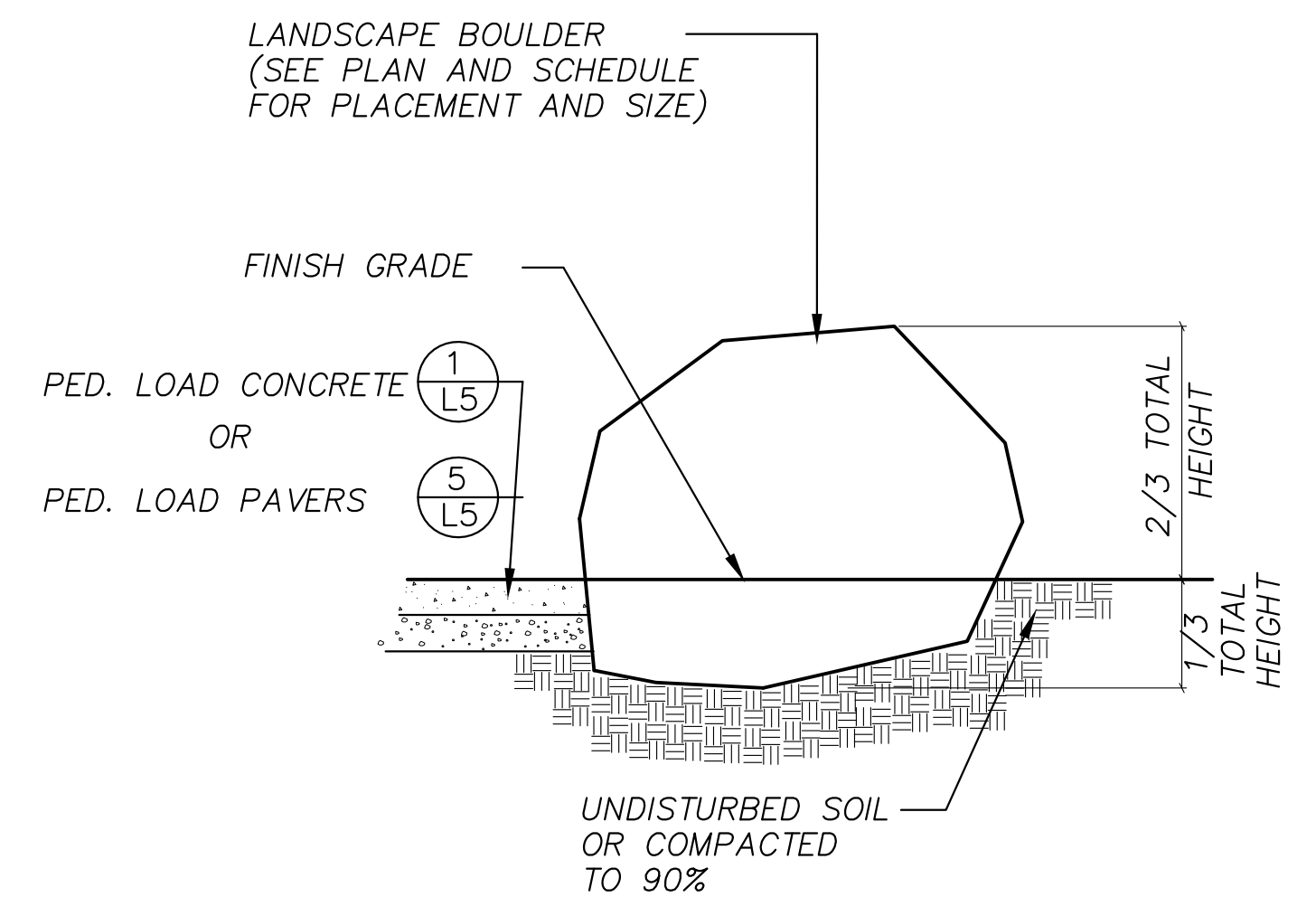
6 FREE STANDING LIMESTONE VENEER BENCH
L106 NTS



7 BIKE RACK ON CONCRETE PAD
L106 SCALE N.T.S.



8 LIMESTONE BLOCK DETENTION BASIN ACCENT
L106 TYPICAL SCALE: NTS



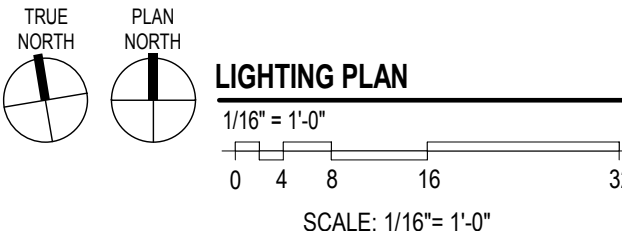
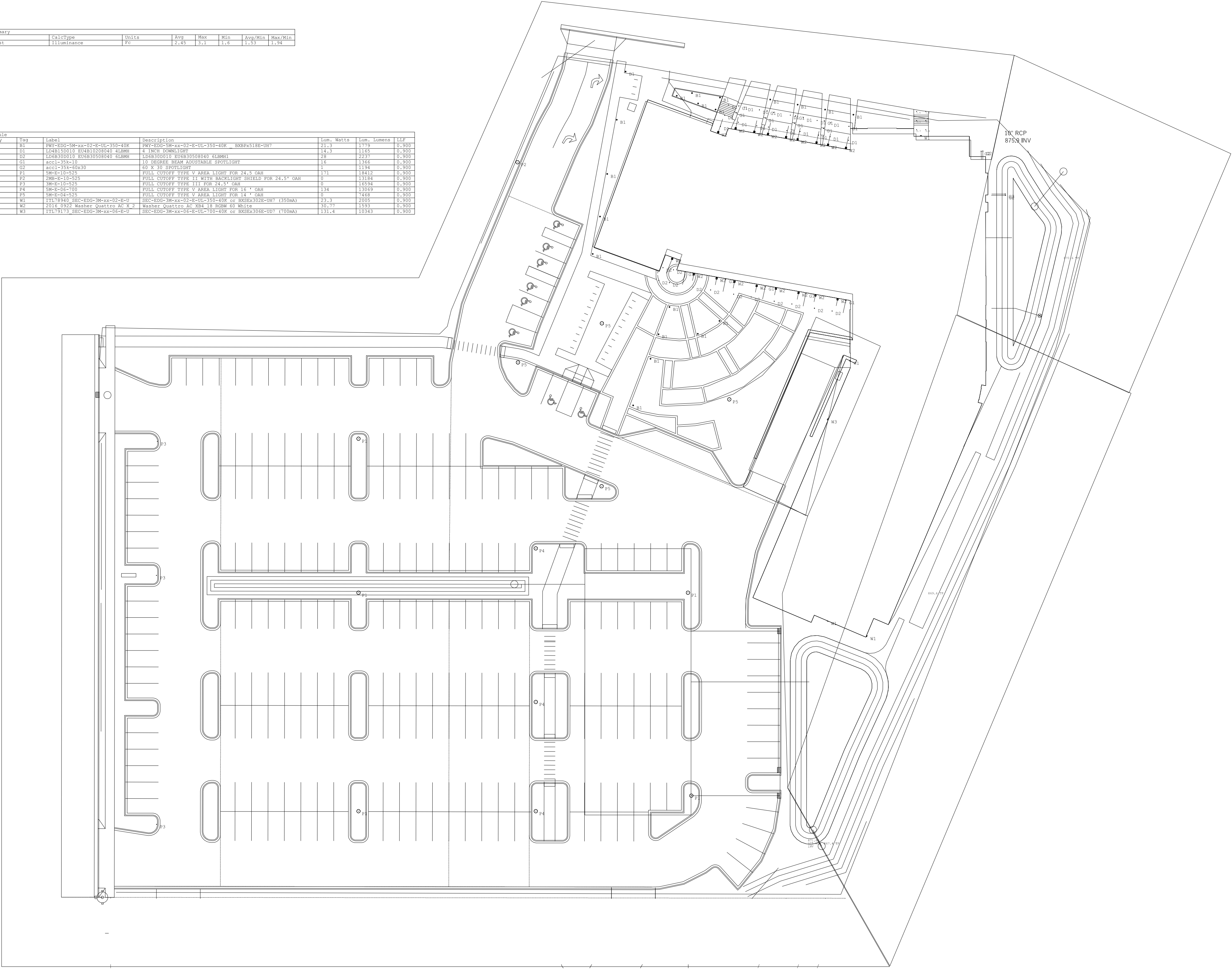
9 LANDSCAPE BOULDER DETAIL— SECTION
L106 SCALE: NTS

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| Calculation Summary | | | | | | | |
|---------------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Street North East | Illuminance | fc | 2.45 | 3.2 | 1.6 | 1.53 | 1.94 |

| Luminaire Schedule | Qty | Label | Description | Qty | Watts | Qty | Lumen | LF |
|--------------------|-----|-------|-------------|-----|-------|-----|-------|-----|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| 3 | 1 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 4 | 1 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| 5 | 1 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| 6 | 1 | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| 7 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| 8 | 1 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 9 | 1 | 9 | 9 | 9 | 9 | 9 | 9 | 9 |
| 10 | 1 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| 11 | 1 | 11 | 11 | 11 | 11 | 11 | 11 | 11 |
| 12 | 1 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| 13 | 1 | 13 | 13 | 13 | 13 | 13 | 13 | 13 |
| 14 | 1 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| 15 | 1 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| 16 | 1 | 16 | 16 | 16 | 16 | 16 | 16 | 16 |
| 17 | 1 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| 18 | 1 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| 19 | 1 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 20 | 1 | 20 | 20 | 20 | 20 | 20 | 20 | 20 |
| 21 | 1 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| 22 | 1 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 23 | 1 | 23 | 23 | 23 | 23 | 23 | 23 | 23 |
| 24 | 1 | 24 | 24 | 24 | 24 | 24 | 24 | 24 |
| 25 | 1 | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| 26 | 1 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 27 | 1 | 27 | 27 | 27 | 27 | 27 | 27 | 27 |
| 28 | 1 | 28 | 28 | 28 | 28 | 28 | 28 | 28 |
| 29 | 1 | 29 | 29 | 29 | 29 | 29 | 29 | 29 |
| 30 | 1 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 31 | 1 | 31 | 31 | 31 | 31 | 31 | 31 | 31 |
| 32 | 1 | 32 | 32 | 32 | 32 | 32 | 32 | 32 |
| 33 | 1 | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| 34 | 1 | 34 | 34 | 34 | 34 | 34 | 34 | 34 |
| 35 | 1 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 36 | 1 | 36 | 36 | 36 | 36 | 36 | 36 | 36 |
| 37 | 1 | 37 | 37 | 37 | 37 | 37 | 37 | 37 |
| 38 | 1 | 38 | 38 | 38 | 38 | 38 | 38 | 38 |
| 39 | 1 | 39 | 39 | 39 | 39 | 39 | 39 | 39 |
| 40 | 1 | 40 | 40 | 40 | 40 | 40 | 40 | 40 |
| 41 | 1 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| 42 | 1 | 42 | 42 | 42 | 42 | 42 | 42 | 42 |
| 43 | 1 | 43 | 43 | 43 | 43 | 43 | 43 | 43 |
| 44 | 1 | 44 | 44 | 44 | 44 | 44 | 44 | 44 |
| 45 | 1 | 45 | 45 | 45 | 45 | 45 | 45 | 45 |
| 46 | 1 | 46 | 46 | 46 | 46 | 46 | 46 | 46 |
| 47 | 1 | 47 | 47 | 47 | 47 | 47 | 47 | 47 |
| 48 | 1 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 49 | 1 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| 50 | 1 | 50 | 50 | 50 | 50 | 50 | 50 | 50 |
| 51 | 1 | 51 | 51 | 51 | 51 | 51 | 51 | 51 |
| 52 | 1 | 52 | 52 | 52 | 52 | 52 | 52 | 52 |
| 53 | 1 | 53 | 53 | 53 | 53 | 53 | 53 | 53 |
| 54 | 1 | 54 | 54 | 54 | 54 | 54 | 54 | 54 |
| 55 | 1 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| 56 | 1 | 56 | 56 | 56 | 56 | 56 | 56 | 56 |
| 57 | 1 | 57 | 57 | 57 | 57 | 57 | 57 | 57 |
| 58 | 1 | 58 | 58 | 58 | 58 | 58 | 58 | 58 |
| 59 | 1 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
| 60 | 1 | 60 | 60 | 60 | 60 | 60 | 60 | 60 |
| 61 | 1 | 61 | 61 | 61 | 61 | 61 | 61 | 61 |
| 62 | 1 | 62 | 62 | 62 | 62 | 62 | 62 | 62 |
| 63 | 1 | 63 | 63 | 63 | 63 | 63 | 63 | 63 |
| 64 | 1 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| 65 | 1 | 65 | 65 | 65 | 65 | 65 | 65 | 65 |
| 66 | 1 | 66 | 66 | 66 | 66 | 66 | 66 | 66 |
| 67 | 1 | 67 | 67 | 67 | 67 | 67 | 67 | 67 |
| 68 | 1 | 68 | 68 | 68 | 68 | 68 | 68 | 68 |
| 69 | 1 | 69 | 69 | 69 | 69 | 69 | 69 | 69 |
| 70 | 1 | 70 | 70 | 70 | 70 | 70 | 70 | 70 |
| 71 | 1 | 71 | 71 | 71 | 71 | 71 | 71 | 71 |
| 72 | 1 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| 73 | 1 | 73 | 73 | 73 | 73 | 73 | 73 | 73 |
| 74 | 1 | 74 | 74 | 74 | 74 | 74 | 74 | 74 |
| 75 | 1 | 75 | 75 | 75 | 75 | 75 | 75 | 75 |
| 76 | 1 | 76 | 76 | 76 | 76 | 76 | 76 | 76 |
| 77 | 1 | 77 | 77 | 77 | 77 | 77 | 77 | 77 |
| 78 | 1 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| 79 | 1 | 79 | 79 | 79 | 79 | 79 | 79 | 79 |
| 80 | 1 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 81 | 1 | 81 | 81 | 81 | 81 | 81 | 81 | 81 |
| 82 | 1 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| 83 | 1 | 83 | 83 | 83 | 83 | 83 | 83 | 83 |
| 84 | 1 | 84 | 84 | 84 | 84 | 84 | 84 | 84 |
| 85 | 1 | 85 | 85 | 85 | 85 | 85 | 85 | 85 |
| 86 | 1 | 86 | 86 | 86 | 86 | 86 | 86 | 86 |
| 87 | 1 | 87 | 87 | 87 | 87 | 87 | 87 | 87 |
| 88 | 1 | 88 | 88 | 88 | 88 | 88 | 88 | 88 |
| 89 | 1 | 89 | 89 | 89 | 89 | 89 | 89 | 89 |
| 90 | 1 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| 91 | 1 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| 92 | 1 | 92 | 92 | 92 | 92 | 92 | 92 | 92 |
| 93 | 1 | 93 | 93 | 93 | 93 | 93 | 93 | 93 |
| 94 | 1 | 94 | 94 | 94 | 94 | 94 | 94 | 94 |
| 95 | 1 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |
| 96 | 1 | 96 | 96 | 96 | 96 | 96 | 96 | 96 |
| 97 | 1 | 97 | 97 | 97 | 97 | 97 | 97 | 97 |
| 98 | 1 | 98 | 98 | 98 | 98 | 98 | 98 | 98 |
| 99 | 1 | 99 | 99 | 99 | 99 | 99 | 99 | 99 |
| 100 | 1 | 100 | 100 | 100 | 100 | 100 | 100 | 100 |

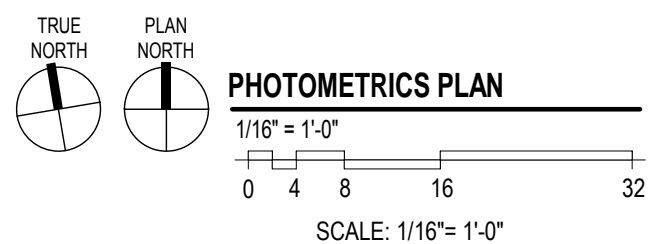
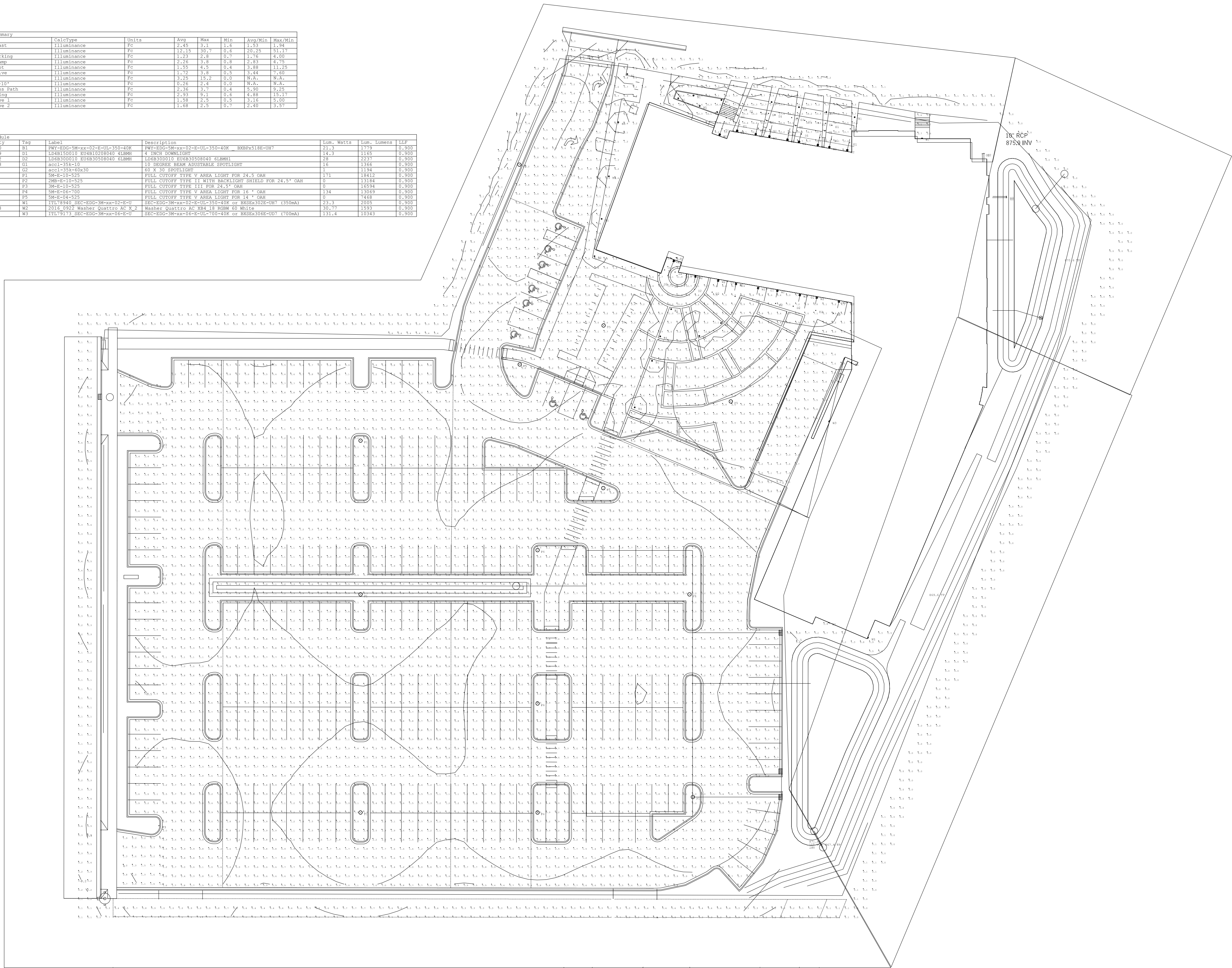


NOT FOR CONSTRUCTION

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| Calculation Summary | | | | | |
|---------------------|---------------|-------|-------|------|-------|
| Label | Category | Units | Min | Max | Avg |
| Express North Exit | Lane/turnance | FC | 2.49 | 3.11 | 1.85 |
| Entrance | Lane/turnance | FC | 12.15 | 20.7 | 20.25 |
| Unsignalized Ramp | Lane/turnance | FC | 2.28 | 3.08 | 2.75 |
| Loading Dock Ramp | Lane/turnance | FC | 2.28 | 3.15 | 2.83 |
| Main Parking | Lane/turnance | FC | 2.28 | 3.08 | 2.75 |
| North Entry Drive | Lane/turnance | FC | 2.72 | 3.15 | 3.44 |
| Plaza | Lane/turnance | FC | 2.28 | 3.08 | 2.75 |
| Property Line 1st | Lane/turnance | FC | 0.26 | 0.35 | N/A |
| Property Line 2nd | Lane/turnance | FC | 0.26 | 0.35 | N/A |
| West Blue Parking | Lane/turnance | FC | 2.93 | 3.1 | 4.88 |
| West Blue Entry 1 | Lane/turnance | FC | 2.28 | 3.08 | 2.75 |
| West Blue Entry 2 | Lane/turnance | FC | 1.86 | 2.25 | 2.40 |

| Laminarise Schedule | | | | | | |
|---------------------|-----|--------------------------|-----------------------------|---------------|------------|------|
| Lyons | Yrs | Label | Description | Start, Matrix | End, Lyons | LF |
| 1 | 84 | PW-1250-18-03-04-304-040 | PW-1250-18-03-02-04-305-404 | 88883184-001 | 21-3 | 1799 |
| 2 | 85 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 3 | 86 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 6 | 89 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 7 | 90 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 8 | 91 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 9 | 92 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 10 | 93 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 11 | 94 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 12 | 95 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 14 | 97 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 19 | 02 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 20 | 03 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 21 | 04 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 23 | 06 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 87 | 70 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
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| 91 | 74 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 92 | 75 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 93 | 76 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 94 | 77 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 95 | 78 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 96 | 79 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 97 | 80 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 98 | 81 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 99 | 82 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 100 | 83 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 101 | 84 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 102 | 85 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 103 | 86 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 104 | 87 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 105 | 88 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 106 | 89 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 107 | 90 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 108 | 91 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 109 | 92 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 110 | 93 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 111 | 94 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 112 | 95 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 113 | 96 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 114 | 97 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |
| 115 | 98 | 1248-0301-18-03-04-040 | 1248-0301-18-03-04-040 | 88883184-001 | 21-3 | 1799 |



NOT FOR CONSTRUCTION

| | | |
|------------|--|--|
| | <div style="text-align: center;"> <h1>Madison College</h1> <h2>South Campus Project</h2> <p>801 W Badger Road, Madison, Wisconsin 53713</p> </div> | |
| Revisions: | | |
| Date: | 11/15/17 | |
| Job No: | 170143-01 | |
| Sheet No.: | | |



MADISON
AREA | TECHNICAL
COLLEGE

prod PLUNKETT RAYSICH
ARCHITECTS, LLP

209 south water street milwaukee, wisconsin 53204
2310 crossroads drive suite 2000 madison, wisconsin 53718
205 north orange avenue suite 202 sarasota, florida 34236

| MADISON COLLEGE SOUTH CAMPUS EXTERIOR LUMINAIRE SCHEDULE | | | | | | | | |
|--|------|--|-------|--------------------------------|--------------------|--------------------------------------|--|---|
| QTY | TYPE | DESCRIPTION | CCT | NOMINAL DELIVERED LUMENS | NOMINAL WATTAGE | MFTR | MODEL # | NOTES |
| | B1 | 42" BOLLARD. SYMMETRICAL DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 1,780 | 22 | CREE INTRIGUE AMERLUX | PATHWAY PWY-EDG-5M-P42-02-E-UL-XX-350-40K | |
| | D1 | 4 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT. | 4000K | 1,500 | 16 | HALO | LD4B-15-D010/EU4B-1020-80-40/4LBM-1H | |
| | D2 | 6 INCH APERTURE DOWNLIGHT WITH SELF-TRIMMING MATTE CLEAR OR HAZE REFLECTOR. LENSED FOR COVERED EXTERIOR SOFFIT. | 4000K | 2,240 | 28 | HALO | LD6B-30-D010/EU6B-3050-8040/6LBM1H | |
| | G1 | KNUCKLE MOUNTED 10 DEGREE EXTERIOR SPOTLIGHT WITH JUNCTION BOX MOUNT, JUNCTION BOX AND GLARE SHIELD. FINISH TO BE DETERMINED. | 3500K | 1,300 | 17 | AMERLUX | ACCION LARGE ACCL35-10-K-XXX-JCOV-JBOX-HGL | MOUNTED AT TOP OF COLUMNS AT NORTH ENTRANCE. MOUNTED AT BOTTOM OF COLUMNS AT SOUTH ENTRANCE. |
| | G2 | KNUCKLE MOUNTED 30 X 60 DEGREE EXTERIOR SPOTLIGHT WITH HEAVY-DUTY POYCARBONATE STEAK AND GLARE SHIELD. FINISH TO BE DETERMINED. | 3500K | 1,200 | 17 | AMERLUX | ACCION LARGE ACCL35-V6030-K-XXX-GSO17-HGL | SIGN LIGHTING TO BE CONFIRMED WITH FINAL PLACEMENT AND SIZING OF SIGNS. |
| | P1 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 18,400 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-10-E-UL-XX-525-40K | |
| | P2 | FULL CUTOFF AREA LIGHT, TYPE II DISTRIBUTION WITH HOUSE SIDE SHIELD. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 13,200 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-2BLS-R3-10-E-UL-XX-525-40K | |
| | P3 | FULL CUTOFF AREA LIGHT, TYPE III DISTRIBUTION. PROVIDE WITH 22' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON 30" RAISED CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 16,600 | 171 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-3M-R3-10-E-UL-XX-525-40K | |
| | P4 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 16' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 13,100 | 134 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-06-E-UL-XX-700-40K | |
| | P5 | FULL CUTOFF AREA LIGHT, TYPE V DISTRIBUTION. PROVIDE WITH 14' ROUND STRAIGHT STEEL POLE. TO BE MOUNTED ON FLUSH CONCRETE BASE. FINISH TO BE DETERMINED. | 4000K | 7,500 | 70 | CREE CYCLONE USA ARCHITECTURAL | EDGE ROUND ARE-EDR-5M-R3-04-E-UL-XX-525-40K | |
| | W1 | FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 2,000 | 25 | CREE | EDGE SECURITY SEC-EDG-3M-WM-02-E-UL-XX-350-40K | MOUNTED AT APPROXIMATELY 9' AFG. |
| | W2 | COLOR CHANGING (RGBW) EXTERIOR FLOODLIGHT FOR UPLIGHTING UNDERSIDE OF BUILDING CANOPY. DMX CONTROL REQUIRED. | N/A | MAX 3200 WHEN ALL ON | 85 | TRAXXON | QUATTRO WASH RGBW | MOUNTED AT APPROXIMATELY 26' AFG TO INDIRECTLY LIGHT CANOPY AT NORTH SIDE OF BUILDING. MOUNTED AT APPROXIMATELY XX' TO INDIRECTLY LIGHT CANOPY AT SOUTH SIDE OF BUILDING. |
| | W1 | FULL CUTOFF EXTERIOR WALL LUMINAIRE. TYPE 3 DISTRIBUTION. FINISH TO BE DETERMINED. | 4000K | 10,300 | 132 | CREE | EDGE SECURITY SEC-EDG-3M-WM-06-E-UL-XX-700-40K | MOUNTED AT APPROXIMATELY 18' AFG. |

Cree Edge™ Series

LED Pathway Luminaire

Product Description

Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance. Pole mounts to rugged die cast aluminum internal flange secured by three 3/8" - 16x6" anchor bolts with 1-1/4" hook (provided). **Note:** T45 Torx 3/8" socket required for head installation. Top mounted LEDs for superior optical performance and light control.

Applications: Landscape, walk-ways and general site lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

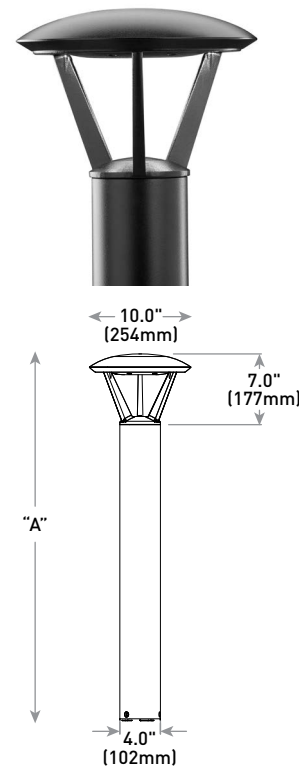
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed |
|--|
| Upgrade Kit - Used for replacement of existing bollards with a bolt hole circle of 5.75" (146mm) XA-XBP8RSV XA-XBP8RWH XA-XBP8RBK XA-XBP8RBZ |



| Model | Dim. "A" | Weight* |
|-----------------|--------------|-------------------|
| Landscape [P0] | 13" (330mm) | 12.7 lbs. (5.8kg) |
| Landscape [P1] | 18" (457mm) | 13.3 lbs. (6.0kg) |
| Pathway [P3] | 36" (914mm) | 17.9 lbs. (8.1kg) |
| Pathway [P4] | 42" (1068mm) | 18.6 lbs. (8.4kg) |
| Pedestrian [P8] | 96" (2438mm) | 28.4 lbs (12.9kg) |

* Add 4.5 lbs. (2.0kg) for 347-480V

Ordering Information

Example: PWY-EDG-2M-P0-02-E-UL-SV-350

| PWY-EDG | | | 02 | E | | | | |
|---------|--|--|----------------|--------|--|--|---|--|
| Product | Optic | Mounting | LED Count (x9) | Series | Voltage | Color Options | Drive Current | Options |
| PWY-EDG | 2M Type II Medium 3M Type III Medium 5M Type V Medium 5S Type V Short | P0 13" (330mm) landscape P1 18" (457mm) landscape P3 36" (914mm) pathway P4 42" (1067mm) pathway P8 96" (2438mm) pedestrian | 02 | E | UL Universal 120-277V UH* Universal 347-480V - Available with P3, P4, and P8 mounts only 12 120V 27 277V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA - Available with P1, P3, P4, and P8 mounts only | F Fuse - When code dictates fusing, use time delay fuse - Refer to ML spec sheet for availability with ML options HL Hi/Low (Dual Circuit Input) - Available with UL voltage and 525mA driver current only - Refer to HL spec sheet for details - Sensor not included TL Two-Level (175/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details TL2 Two-Level (0/350 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details TL3 Two-Level (0/525 w/integrated sensor control) - Available with 12 or 27 voltages only - Refer to TL spec sheet for details WB Welded Base Plate - Standard on P8 mount option, available with P3 and P4 mount - Includes welded base cover 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |

* 347-480V utilizes magnetic step-down transformer. For input power for 347-480V, refer to the Electrical Data table



Rev. Date: V5 08/11/2016



Product Specifications

CONSTRUCTION & MATERIALS

- Durable die-cast aluminum luminaire housing mounts directly to 4" (102mm) diameter pole (included) without visible mounting hardware for clean appearance
- Pole mounts to rugged die cast aluminum internal flange secured by three 3/8"-16x6" anchor bolts with 1-1/4" hook(provided).
Note: T45 Torx 3/8" socket required for head installation
- Top mounted LEDs for superior optical performance and light control
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimension and Weight Chart on pages 1 and 4

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load at 120V
- **Total Harmonic Distortion:** < 20% at full load at 120V
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA
- RoHS compliant. Consult factory for additional details

| Electrical Data* [A] | | | | | | | | |
|----------------------|--------------------------|--------------------------|---------------|------|------|------|------|------|
| LED Count [x9] | System Watts 120-277V | System Watts 347-480V | Total Current | | | | | |
| | | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | | |
| 02 | 22 | 28 | 0.18 | 0.12 | 0.10 | 0.10 | 0.09 | 0.13 |
| 525mA | | | | | | | | |
| 02 | 34 | 40 | 0.29 | 0.19 | 0.17 | 0.15 | 0.12 | 0.13 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

| Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|-------------|-----------------------------------|-----------------------------------|------------------------------------|-------------------------------------|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 0.99 | 0.97 | 0.95 | 0.93 |
| 10°C (50°F) | 1.03 | 0.98 | 0.96 | 0.94 | 0.92 |
| 15°C (59°F) | 1.02 | 0.97 | 0.95 | 0.93 | 0.91 |
| 20°C (68°F) | 1.01 | 0.96 | 0.94 | 0.92 | 0.90 |
| 25°C (77°F) | 1.00 | 0.95 | 0.93 | 0.91 | 0.89 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

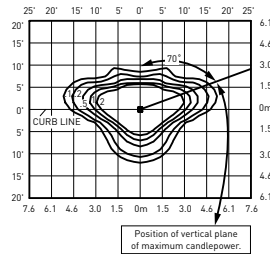
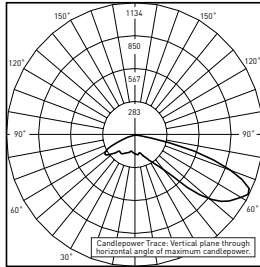
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)



Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

2M



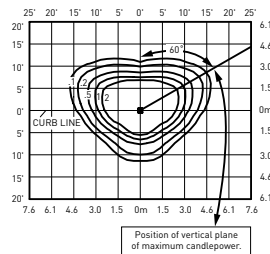
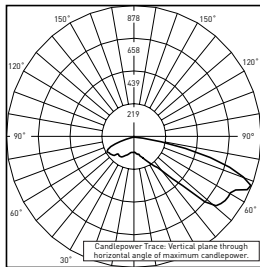
Type II Medium Distribution

| LED Count (x9) | 4000K | 5700K | | |
|----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,565 | B1 U0 G1 | 1,625 | B1 U0 G1 |
| 525mA | | | | |
| 02 | 2,191 | B1 U0 G1 | 2,276 | B1 U0 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

3M



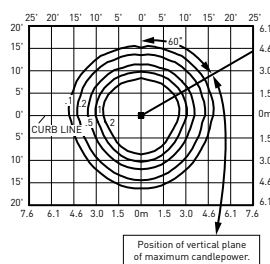
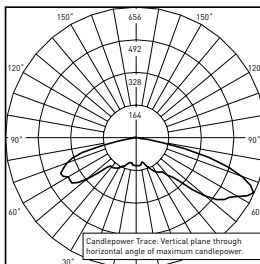
Type III Medium Distribution

| LED Count (x9) | 4000K | 5700K | | |
|----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,389 | B1 U0 G1 | 1,442 | B1 U0 G1 |
| 525mA | | | | |
| 02 | 1,944 | B1 U0 G1 | 2,019 | B1 U0 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

5M



Type V Medium Distribution

| LED Count (x9) | 4000K | 5700K | | |
|----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,666 | B1 U2 G1 | 1,730 | B1 U2 G1 |
| 525mA | | | | |
| 02 | 2,333 | B2 U2 G2 | 2,422 | B2 U2 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

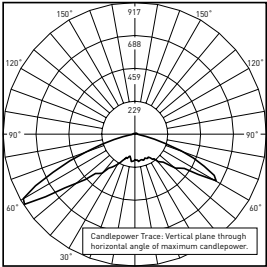
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



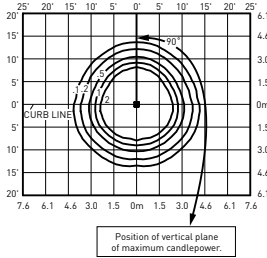
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/bollards-and-pathway/cree-edge-pathway>

55



RESTL Test Report #: PL5759-001
PWY-EDG-5S-**-02-E-UL-350-40K
Initial Delivered Lumens: 1,897

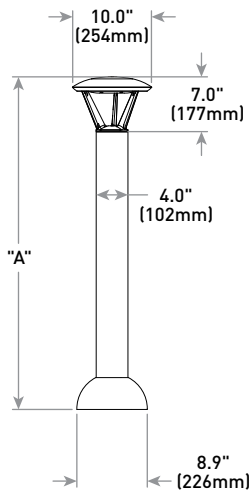


PWY-EDG-5S-**-02-E-UL-350-40K
Mounting Height: 3' (0.9m) A.F.G.
Initial Delivered Lumens: 1,868
Initial FC at grade

| Type V Short Distribution | | | | |
|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x9) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,868 | B1 U2 G1 | 1,940 | B1 U2 G1 |
| 525mA | | | | |
| 02 | 2,615 | B1 U2 G1 | 2,716 | B1 U2 G1 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

with Welded Base



| Model | Dim. "A" | Weight* |
|-----------------|--------------|-------------------|
| Pathway (P3) | 36" (914mm) | 17.9 lbs. (8.1kg) |
| Pathway (P4) | 42" (1068mm) | 18.6 lbs. (8.4kg) |
| Pedestrian (P8) | 96" (2438mm) | 28.4 lbs (12.9kg) |

* Add 4.5 lbs. (2.0kg) for 347-480V

DESCRIPTION

4 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 4000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface. Plaster lathing ring accessory offered for flush reflector transition.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1%. Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

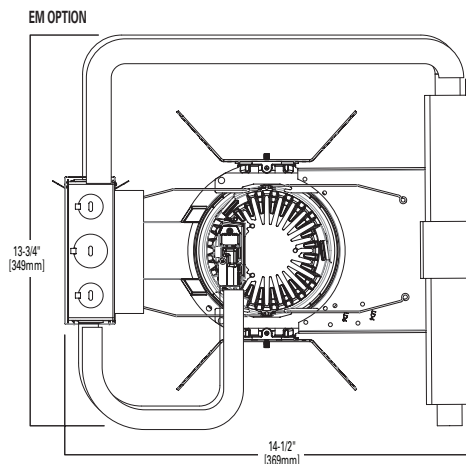
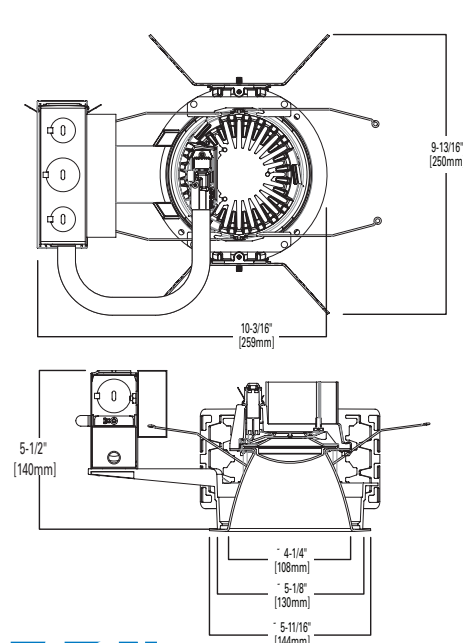
LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CCEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. 2000 lumen and above are Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

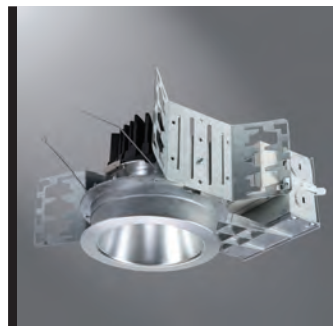
5-year warranty



| | 1000-2000 LUMENS |
|---------------|------------------|
| NARROW/MEDIUM | 5-1/2" [140mm] |
| WIDE | 5-1/2" [140mm] |
| SHALLOW /TRIM | 5-1/2" [140mm] |

D1 Portfolio

| Catalog # | Type |
|-------------|------|
| Project | |
| Comments | Date |
| Prepared by | |



LD4B EU4B 4LBW 4LBM 4LBN

1000, 1500, 2000, 3000, 4000

Lumens LED

Narrow, Medium, or Wide Beam
New Construction

D2W™



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

SAMPLE NUMBER: LD4B15D010IEMBOD

| Housing | Lumens ¹ | Voltage | Driver | Options |
|--|--|------------------------|--|---|
| LD4B =LED Downlight 4" Nominal Aperture LD4BCP =LED Downlight 4" Nominal Aperture, Chicago Plenum | 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens | Blank =120-277V | 1000 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V DMX =DMX Dimming, 0% to 100%, 120V-277V ¹³ DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DL3 =Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V | EMBOD =Bodine® Emergency Module with Remote Test Switch ³ EM7 =7W Emergency Module with Remote Test Switch ^{3,4} EM14 =14W Emergency Module with Remote Test Switch ^{3,4} IEMBOD =Bodine® Emergency Module with Integral Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ^{3,4} IEM14 =14W Emergency Module with Integral Test Switch ^{3,4} |

SAMPLE NUMBER: EU4B10208035

| Power Module | Lumen Levels ¹ | CRI | Color | | |
|--------------------------------------|---|---|---|---|---|
| EU4B =4" Universal LED Module | 1020 =1000, 1500, 2000 lumens 3040 =3000-4000 lumens 1015IC =1000, 1500 lumen IC rated | 80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum | 80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 97 CRI 27 =2700K 30 =3000K |
| | Dim 2 Warm 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm | | | | |

SAMPLE NUMBER: 4LBM1LIE

| Trim | Distribution ⁵ | Flange | Finish | Options |
|--------------------|--|---|---|--|
| 4LB =4" LED | N =Narrow (30° Beam), Spun Aluminum M =Medium (50° Beam), Spun Aluminum W =Wide (75° Beam), Spun Aluminum S =Shallow (75° Beam), Spun Aluminum PS =Plastic Shallow (75° Beam), Injection Molded white ¹¹ CS =Cast Shallow (75° Beam), Die Cast Aluminum BA =Baffle, Spun Aluminum ⁷ | 0 =White Polymer Trim Ring 1 =Self-flanged ¹² 2 =White Painted Self-flanged | LI =Specular Clear ¹⁰ H =Semi-Specular Clear ¹⁰ WMH =Warm Haze ¹⁰ WH =Wheat ¹⁰ GPH =Graphite Haze ¹⁰ B =Specular Black ¹⁰ MW =Matte White MB =Matte Black ⁹ MMS =Matte Metallic Silver ⁸ | E =Integral Emergency Test Switch Hole ⁶ |

Accessories

HSA4=Slope Adapter for 4" Aperture Housings, Specify Slope in 5° increments
TRM4=Metal Trim Ring, Specify Color²
TRR4=Rimless Trim Ring²
LGSKT4IP66=IP66 Gasket Kit
PRR4=Rimless Plaster Ring for Flush Mount²
Bar Hangers
HB26=C-channel Bar Hanger, 26" Long, Pair
HB50=C-channel Bar Hanger, 50" Long, Pair
RMB22=Wood Joist Bar Hanger, 22" Long, Pair
Transformers
H347=347 to 120V Step Down Transformer, 75VA
H347200=347 to 120V Step Down Transformer, 200VA
Connected Lighting Systems
PORLWTPD1=LumaWatt Pro wireless sensor kit (0-10V only)
TMSWPD1=WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount)

Notes:

- 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
- 2 Order spun trim with polymer trim ring or die cast with rimless flange (Consult specification sheet for color ordering information and options).
- 3 Not available with Chicago Plenum.
- 4 ULus approved only.
- 5 Beam angles are nominal with LI finish trims.
- 6 Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings.
- 7 Only available with Matte White and Matte Black Finishes.
- 8 Only available on CS distribution.
- 9 Available only on BA and CS distributions.
- 10 Not available on PS, CS or BA distributions.
- 11 Matte white and self flanged only
- 12 Flange is same finish as the reflector.
- 13 DMX fixtures default to full on upon loss of DMX signal.

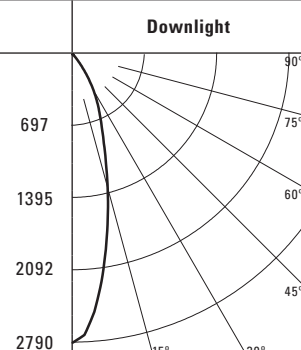
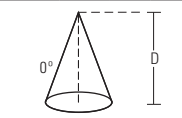
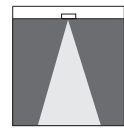
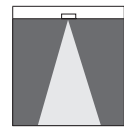
ENERGY

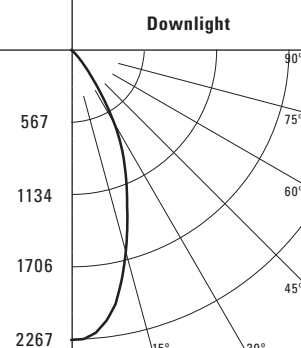
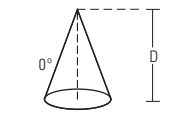

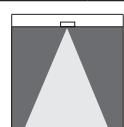
| ENERGY DATA |
|--|
| Sound Rating: Class A standards |
| (Values at non-dimming line voltage) |
| Minimum Starting Temperature: -30°C (-22°F) |
| EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Input Voltage: UNV (120V - 277V) |
| Power Factor: >0.90 (at nominal input 120-277 VAC & 100% of Rated Output Power) |
| Input Frequency: 50/60Hz |

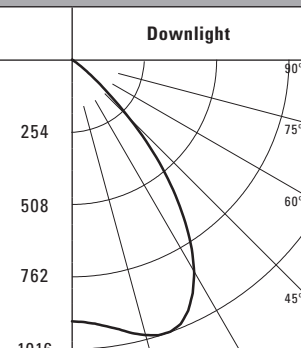
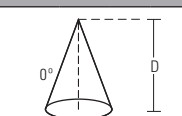

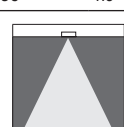
| 1000 Lumen D010 | | 1500 Lumen D010 | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Power: 11W | THD: <14% | Input Power: 15.5W | THD: <13% |
| 120V Input Current: 0.09A | 277V Input Current: 0.04A | 120V Input Current: 0.13A | 277V Input Current: 0.06A |
| 2000 Lumen D010 | | 3000 Lumen D010 | |
| Input Power: 21.2W | THD: <9% | Input Power: 27.6W | THD: <10% |
| 120V Input Current: 0.18A | 277V Input Current: 0.08A | 120V Input Current: 0.23A | 277V Input Current: 0.10A |
| 4000 Lumen D010 | | | |
| Input Power: 41.6W | | THD: <13% | |
| 120V Input Current: 0.35A | | 277V Input Current: 0.15A | |

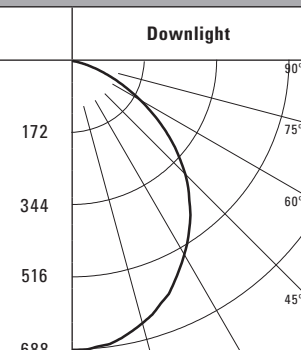
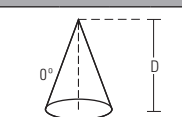
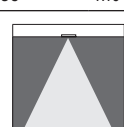
| Lumens | 120V | | 277V | |
|-----------------|------------|---------------|------------|---------------|
| | Inrush (A) | Duration (ms) | Inrush (A) | Duration (ms) |
| 1000 Lumen D010 | 1.02 | 0.041 | 2.18 | 0.021 |
| 1500 Lumen D010 | 1.02 | 0.042 | 2.24 | 0.064 |
| 2000 Lumen D010 | 1.02 | 0.077 | 2.43 | 0.027 |
| 3000 Lumen D010 | 1.15 | 0.067 | 3.26 | 0.027 |
| 4000 Lumen D010 | 1.2 | 0.088 | 3.9 | 0.03 |

PHOTOMETRY

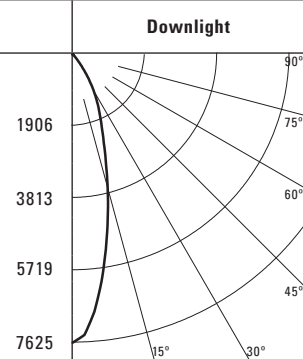
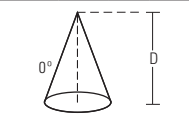
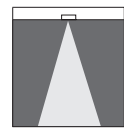
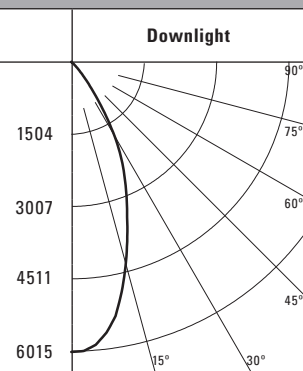
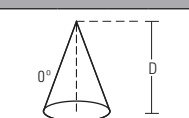
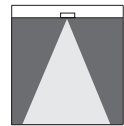
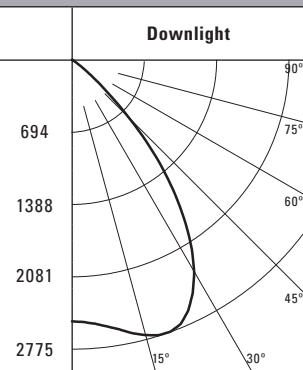
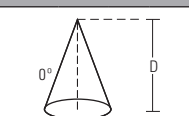
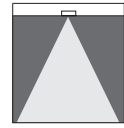
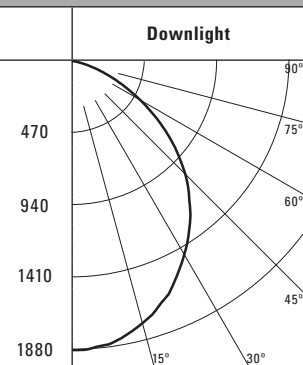
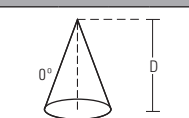
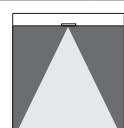
| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | |
|---|--------------|---|--|---|--|----|-----|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|
| Test Number | P201208 |  | |  | | | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | |
| Housing | LD4B15D010 | | | | | | | 0 | 2790 | 0-30 | 926 | 82.1 | 45 | 489 | | |
| Module | EU4B10208035 | | | | | | | 5 | 2550 | 0-40 | 1094 | 97 | 55 | 55 | | |
| Trim | 4LBN1LI | | | | | | | 15 | 1421 | 0-60 | 1127 | 99.9 | 65 | 26 | | |
| Lumens | 1128 | | | | | | | 25 | 667 | 0-90 | 1128 | 100 | 75 | 0 | | |
| Efficacy | 78.9 Lm/W |  | | | | 35 | 266 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 0.5 | | | | | 45 | 32 | 0-180 | 1128 | 100 | | | | | | |
|  | | | | | | 55 | 3 | | | | | | | | | |
| | | | | | | 65 | 1 | | | | | | | | | |
| | | | | | | 75 | 0 | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |

| MEDIUM (50° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|--|
| Test Number | P201206 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | | |
| Housing | LD4B15D010 | | | | | 0 | 2267 | 0-30 | 1144 | 77.3 | 45 | 1072 | | | | | |
| Module | EU4B10208035 | | | | | 5 | 2227 | 0-40 | 1406 | 95 | 55 | 151 | | | | | |
| Trim | 4LBM1LI | | | | | 15 | 1690 | 0-60 | 1477 | 99.7 | 65 | 77 | | | | | |
| Lumens | 1481 | | | | | 25 | 1027 | 0-90 | 1481 | 100 | 75 | 42 | | | | | |
| Efficacy | 103.6 Lm/W |  | | | | 35 | 409 | 90-180 | 0 | 0 | 85 | 0 | | | | | |
| SC | 0.71 | | | | | 45 | 70 | 0-180 | 1481 | 100 | | | | | | | |
|  | | | | | | 55 | 8 | | | | | | | | | | |
| | | | | | | 65 | 3 | | | | | | | | | | |
| | | | | | | 75 | 1 | | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | | |

| WIDE (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|--|
| Test Number | P201204 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | | |
| Housing | LD4B15D010 | | | | | 0 | 914 | 0-30 | 816 | 53.8 | 45 | 4372 | | | | | |
| Module | EU4B10208035 | | | | | 5 | 925 | 0-40 | 1252 | 82.5 | 55 | 574 | | | | | |
| Trim | 4LBW1LI | | | | | 15 | 998 | 0-60 | 1513 | 99.7 | 65 | 100 | | | | | |
| Lumens | 1518 | | | | | 25 | 977 | 0-90 | 1518 | 100 | 75 | 42 | | | | | |
| Efficacy | 106.2 Lm/W |  | | | | 35 | 707 | 90-180 | 0 | 0 | 85 | 0 | | | | | |
| SC | 1.3 | | | | | 45 | 286 | 0-180 | 1518 | 100 | | | | | | | |
|  | | | | | | 55 | 30 | | | | | | | | | | |
| | | | | | | 65 | 4 | | | | | | | | | | |
| | | | | | | 75 | 1 | | | | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | | |

| SHALLOW (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | | |
|--------------------|--------------|---|-----|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|--|
| Test Number | P201210 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | | |
| Housing | LD4B15D010 | | | | | 0 | 688 | 0-30 | 512 | 34.2 | 45 | 5827 | | | | | |
| Module | EU4B10208035 | | | | | 5 | 682 | 0-40 | 816 | 54.5 | | | | | | | |
| Trim | 4LBCS1MMS | | | | | 15 | 645 | 0-60 | 1333 | 89 | | | | | | | |
| Lumens | 1497 | | | | | 25 | 577 | 0-90 | 1497 | 100 | | | | | | | |
| Efficacy | 104.7 Lm/W | 35 | 486 | | | 90-180 | 0 | 0 | | | | | | | | | |
| SC | 1.16 |  | | | | 45 | 380 | 0-180 | 1497 | 100 | 85 | 124 | | | | | |
| | | | | | | 55 | 253 | | | | | | | | | | |
| | | | | | | 65 | 126 | | | | | | | | | | |
| | | | | | | 75 | 32 | | | | | | | | | | |
| | | | | | | 85 | 1 | | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | | |

PHOTOMETRY

| NARROW (25° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | |
|-------------------|--------------|---|--|---|--|---|---------|---------------------|---------|-----------|-------------------------|----------------------|-------------------------|----------------------|
| Test Number | PP201209 |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | |
| Housing | LD4B40D010 | | | | | 0 | 7625 | 0-30 | 2531 | 82.1 | 45 | 1337 | | |
| Module | EU4B30408035 | | | | | 5 | 6969 | 0-40 | 2989 | 97 | 55 | 149 | | |
| Trim | 4LBN1LI | | | | | 15 | 3883 | 0-60 | 3080 | 99.9 | 65 | 67 | | |
| Lumens | 3083 | | | | | 25 | 1822 | 0-90 | 3083 | 100 | 75 | 0 | | |
| Efficacy | 73.8 Lm/W | | | | | 35 | 727 | 90-180 | 0 | 0 | 85 | 0 | | |
| SC | 0.5 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 6015 | 0-30 | 3036 | 77.3 | 45 | 2844 |
| Module | EU4B30408035 | | | | | | | 5 | 5909 | 0-40 | 3731 | 95 | 55 | 400 |
| Trim | 4LBM1LI | | | | | | | 15 | 4484 | 0-60 | 3918 | 99.7 | 65 | 205 |
| Lumens | 3929 | | | | | | | 25 | 2725 | 0-90 | 3929 | 100 | 75 | 113 |
| Efficacy | 94 Lm/W | | | | | | | 35 | 1085 | 90-180 | 0 | 0 | 85 | 0 |
| SC | 0.71 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 2499 | 0-30 | 2230 | 53.8 | 45 | 11948 |
| Module | EU4B30408035 | | | | | | | 5 | 2528 | 0-40 | 3421 | 82.5 | 55 | 1569 |
| Trim | 4LBW1LI | | | | | | | 15 | 2727 | 0-60 | 4134 | 99.7 | 65 | 274 |
| Lumens | 4148 | | | | | | | 25 | 2670 | 0-90 | 4148 | 100 | 75 | 113 |
| Efficacy | 99.2 Lm/W | | | | | | | 35 | 1933 | 90-180 | 0 | 0 | 85 | 0 |
| SC | 1.3 |  | |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 |  | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
| Module | EU4B30508035 | | | | | | | 5 | 1864 | 0-40 | 2230 | 54.5 | 55 | 13046 |
| Trim | 4LBCS1MMS | | | | | | | 15 | 1763 | 0-60 | 3645 | 89 | 65 | 8819 |
| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
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| Lumens | 4093 | | | | | | | 25 | 1578 | 0-90 | 4093 | 100 | 75 | 3657 |
| Efficacy | 97.9 Lm/W | | | | | | | 35 | 1329 | 90-180 | 0 | 0 | 85 | 323 |
| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
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| SC | 1.16 | | | | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance |
| Housing | LD4B40D010 | | | | | | | 0 | 1880 | 0-30 | 1400 | 34.2 | 45 | 15933 |
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DESCRIPTION

6 inch LED recessed narrow, medium, or wide beam downlight designed for glare free even illumination. Featuring a two-stage diffused reflector system producing smooth distribution with excellent light control and low aperture brightness. Lumen packages range from 1000 to 7000 with color temperatures of 2400K, 2700K, 3000K, 3500K, 4000K, and 5000K. Available with dim-to-warm technology – similar to halogen at full power, the 3000K LED warms smoothly as dimmed to 1850K creating a rich warm glow within the space.

SPECIFICATION FEATURES

Lower Shielding Reflector

Painted die cast aluminum or spun aluminum lower reflector with a lensed upper optical chamber providing superior lumen output with minimal source brightness. Spun reflectors are offered in all Portfolio Alzak® finishes. Available with non-conductive polymer trim. Reflector is retained with two torsion springs holding the flange tight to the finished ceiling surface.

Plaster Frame / Collar

Die cast aluminum 1-1/2" deep collar accommodates ceiling materials up to 2". Universal mounting bracket accepts 1/2" EMT, C channel and bar hangers and adjusts 5" vertically from above and below the ceiling.

Junction Box

Listed for (8) #12 AWG (four in, four out) 90°C conductors and feed thru branch wiring. (4) 1/2" and (2) 3/4" trade size pry outs positioned to allow straight conduit runs. Lever connectors for simple push in wiring.

Thermal

Aluminum heat sink conducts heat away from the LED module for optimal performance and long life.

LED

Chip on board with a multitude of highly efficient white LED's, combined with a high reflectance upper reflector and convex transitional lens produce even distribution with no pixilation. Rated for 50,000 hours at 70% lumen maintenance. Auto resetting, thermally protected, LED's are turned off when safe operating temperatures are exceeded. Color variation within 3-step MacAdam ellipses. Quick disconnect allows for tool-less replacement of LED engine from below ceiling. Available in 80, 90 or 97 CRI. D2W™ – dim-to-warm shifts CCT from 3000K to 1850K as fixture dims mimicking halogen sources.

Driver

Standard 120-277V 0-10V dimming driver provides flicker free dimming from 100% to 1% (offered up to 4000 lumens). Optional 120V leading edge, <1% 0-10V, Fifth Light, DMX or Lutron® Ecosystem. Driver can be serviced from above or through the aperture.

Connected Lighting Systems

WaveLinx tilemount daylight sensor includes control module, sensor and cable allowing use with the comprehensive lighting system.

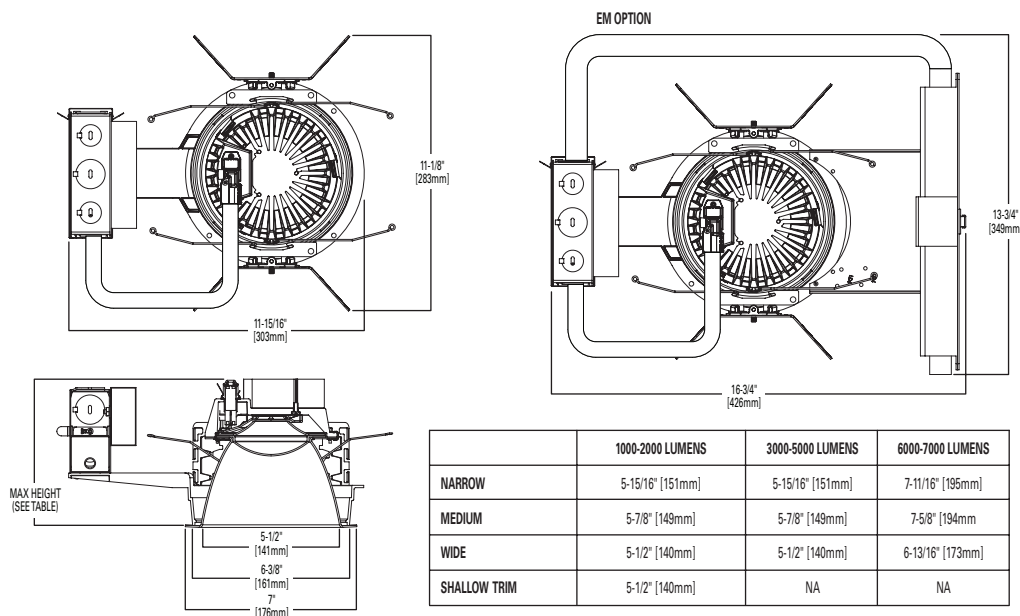
LumaWatt Pro (powered by Enlighted) wireless tile mount sensor and relay accessory enables wireless control using a tile mount sensor accessory.

Code Compliance

Thermally protected and cULus listed for wet locations with covered ceiling. IP66 rated when used with IP66 gasket kit accessory. Optional City of Chicago environmental air (CEEA) marking for plenum applications. EMI/RFI emissions per FCC 47CFR Part 18 Class B consumer limits. Non-IC rated - Insulation must be kept 3" from top and sides of housing. IC rated up to 1500 lumens. 5000 lumen and above are marked spacing and must follow spacing requirements. RoHS Compliant. Photometric testing completed in accordance with IES LM 79 and TM-30 standards. LED life testing completed in accordance with LM 80 standards.

Warranty

5-year warranty



| Catalog # | | Type |
|-------------|--|------|
| Project | | |
| Comments | | Date |
| Prepared by | | |



**LD6B EU6B
6LBW 6LBM
6LBN**

1000 - 7000 lumens LED

Narrow, Medium, or Wide Beam
New Construction

D2W™



Refer to ENERGY STAR® Qualified Products List. Can be used to comply with California Title 24 High Efficacy requirements.

ORDERING INFORMATION

| SAMPLE NUMBER: LD6B15D010EMBOD | | | | |
|--|--|------------------------|---|---|
| Housing | Lumens ¹ | Voltage | Driver | Options |
| LD6B =LED Downlight 6" Nominal Aperture LD6BCP =LED Downlight 6" Nominal Aperture, Chicago Plenum | 10 =1000 lumens 15 =1500 lumens 20 =2000 lumens 30 =3000 lumens 40 =4000 lumens 50 =5000 lumens ¹⁰ 60 =6000 lumens ¹⁰ 70 =7000 lumens ¹⁰ | Blank =120-277V | 1000 - 4000 Lumen D010 =0-10V Dimming, 1% to 100%, 120V-277V D010TR =0-10V or Line Voltage Dimming, 5% to 100%, 120V-277V DE010 =0-10V Dimming, 0% to 100%, 120V-277V D5LT =Fifth Light® (DALI) Dimming, 0% to 100%, 120V-277V DMX =DMX Dimming, 0% to 100%, 120V-277V ¹⁴ DL2 =Lutron® Hi-Lume Forward Phase Dimming, 1% to 100%, 120V Only DL3 =Lutron® Hi-Lume 3 Wire Dimming, 1% to 100%, 120V-277V DLE =Lutron Ecosystem dimming 1% to 100%, 120V-277V 5000, 6000, and 7000 Lumen D010TE =0-10V 1% or Trailing Edge, 10% to 100%, 120V-277V (120V Only for Trailing Edge Dimming) | EMBOD =Bodine® Emergency Module with Remote Test Switch ³ EM7 =7W Emergency Module with Remote Test Switch ^{3, 4} EM14 =14W Emergency Module with Remote Test Switch ^{3, 4} IEMBOD =Bodine® Emergency Module with Integral Test Switch ³ IEM7 =7W Emergency Module with Integral Test Switch ^{3, 4} IEM14 =14W Emergency Module with Integral Test Switch ^{3, 4} |

SAMPLE NUMBER: EU6B10208035

| Power Module | Lumen Levels ¹ | CRI | Color | | |
|--------------------------------------|---|---|---|---|---|
| EU6B =6" Universal LED Module | 1020 =1000, 1500, 2000 lumens 3050 =3000, 4000, 5000 lumens 6070 =6000, 7000 lumens 1015IC =1000, 1500 lumen IC rated | 80 =80 CRI Minimum 90 =90 CRI Minimum 97 =97 CRI Minimum | 80 CRI 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 90 CRI 24 =2400K 27 =2700K 30 =3000K 35 =3500K 40 =4000K 50 =5000K | 97 CRI 27 =2700K 30 =3000K |
| | <u>Dim 2 Warm</u> 109030D2W =1000 lumen, 90 CRI, Dim 2 Warm 159030D2W =1500 lumen, 90 CRI, Dim 2 Warm 209030D2W =2000 lumen, 90 CRI, Dim 2 Warm | | | | |

SAMPLE NUMBER: 6LBM1LIE

| Trim | Distribution ⁵ | Flange | Finish | Options |
|--------------------|---|---|---|--|
| 6LB =6" LED | N =Narrow (30° Beam), Spun Aluminum M =Medium (50° Beam), Spun Aluminum W =Wide (75° Beam), Spun Aluminum S =Shallow (75° Beam), Spun Aluminum ¹² PS =Plastic Shallow (75° Beam), Injection Molded white ^{11, 12} CS =Cast Shallow (75° Beam), Die Cast Aluminum ¹² BA =Baffle (50° Beam), Spun Aluminum ⁷ | 0 =White Polymer Trim Ring 1 =Self-flanged ¹³ 2 =White Painted Self-flanged | LI =Specular Clear ⁹ H =Semi-Specular Clear ⁹ WMH =Warm Haze ⁹ WH =Wheat ⁹ GPH =Graphite Haze ⁹ B =Specular Black ⁹ MW =Matte White MB =Matte Black ⁸ MMS =Matte Metallic Silver ⁸ | E =Integral Emergency Test Switch Hole ⁶ |

| Accessories |
|---|
| HSA6 =Slope Adapter for 6" Aperture Housings, Specify Slope TRM6 =Metal Trim Ring, Specify Color ² PRR6 =Rimless Trim Ring for Flush Mount ² LGSKT6IP66 =IP66 Gasket Kit DT6 =Deco Trim ² Bar Hangers HB26 =C-channel Bar Hanger, 26" Long, Pair HB50 =C-channel Bar Hanger, 50" Long, Pair RMB22 =Wood Joist Bar Hanger, 22" Long, Pair Transformers H347 =347 to 120V Step Down Transformer, 75VA H347200 =347 to 120V Step Down Transformer, 200VA Connected Lighting Systems PORLWTPD1 =LumaWatt Pro wireless sensor kit (0-10V only) TMSWPD1 =WaveLinx tilemount daylight sensor (includes control module, sensor, cable and tile mount) |

- Notes:**
- 1 Nominal Lumens will vary depending on selected color, driver and reflector finish.
 - 2 Order trim with polymer trim ring (Consult specification sheet for color ordering information and options).
 - 3 Not available with Chicago Plenum.
 - 4 ULus listed only
 - 5 Beam angles are nominal with LI finish trims.
 - 6 Only available with Narrow and Medium Spun Aluminum trims. Required for use with all IEMBOD, IEM7, and IEM14 housings. Requires above ceiling access with wide beam trim.
 - 7 Only available with Matte White and Matte Black Finishes.
 - 8 Available only on CS distributions.
 - 9 Not available on PS, CS or BA distributions.
 - 10 Product is marked spacing and must be installed with the following minimum spacing.
 - Center to center of adjacent luminaires: 36"
 - Center of luminaire to side of building member: 18"
 - Minimum overhead: 1/2"
 - Not available with CS or PS trims
 - 11 PS available in self-flanged MW finish only.
 - 12 Offered up to 2000 lumens
 - 13 Flange is the same finish as the reflector
 - 14 DMX fixtures default to full on upon loss of DMX signal.

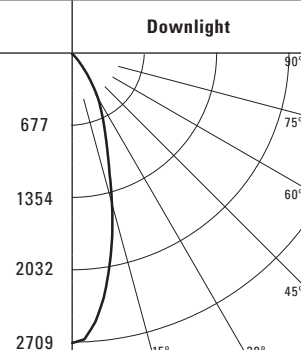
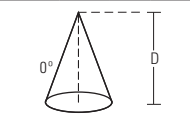
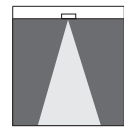
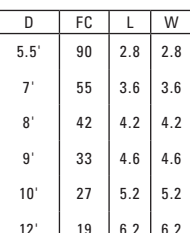
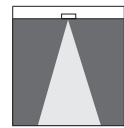
ENERGY

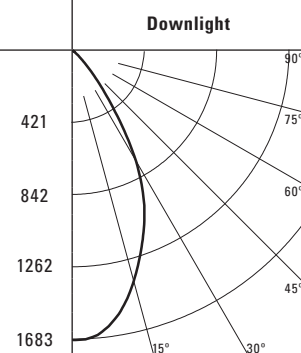
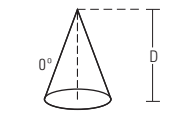
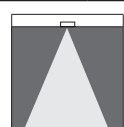
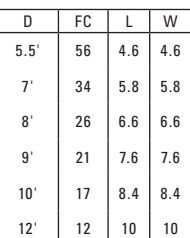
| ENERGY DATA |
|---|
| Sound Rating: Class A standards |
| (Values at non-dimming line voltage) |
| Minimum Starting Temperature: -30°C (-22°F) |
| EMI/RFI: FCC Title 47 CFR, Part 15, Class B (Consumer) |
| Input Voltage: UNV (120V - 277V) |
| Power Factor: >0.9 (at nominal input 120-277 VAC & 100% of Rated Output Power) |
| Input Frequency: 50/60Hz |

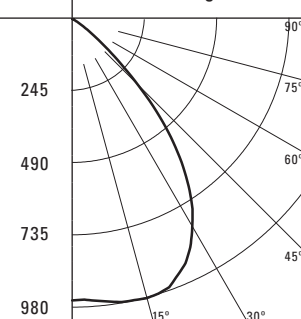
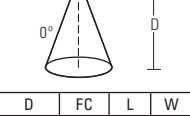
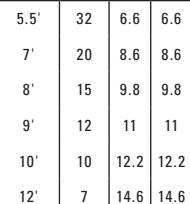
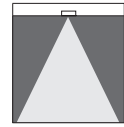
| 1000 Lumen D010 | | 1500 Lumen D010 | |
|---------------------------|---------------------------|---------------------------|---------------------------|
| Input Power: 11W | THD: <14% | Input Power: 15.5W | THD: <13% |
| 120V Input Current: 0.09A | 277V Input Current: 0.04A | 120V Input Current: 0.13A | 277V Input Current: 0.06A |
| 2000 Lumen D010 | | 3000 Lumen D010 | |
| Input Power: 21.2W | THD: <9% | Input Power: 27.6W | THD: <10% |
| 120V Input Current: 0.18A | 277V Input Current: 0.08A | 120V Input Current: 0.23A | 277V Input Current: 0.10A |
| 4000 Lumen D010 | | 5000 Lumen D010TE | |
| Input Power: 41.6W | THD: <13% | Input Power: 57.9W | THD: <14% |
| 120V Input Current: 0.35A | 277V Input Current: 0.15A | 120V Input Current: 0.49A | 277V Input Current: 0.22A |
| 6000 Lumen D010TE | | 7000 Lumen D010TE | |
| Input Power: 59.7W | THD: <14% | Input Power: 75.8W | THD: <13% |
| 120V Input Current: 0.50A | 277V Input Current: 0.22A | 120V Input Current: 0.64A | 277V Input Current: 0.29A |

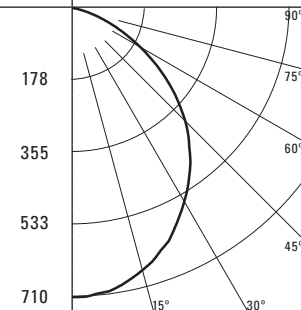
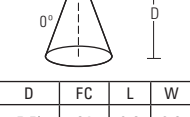
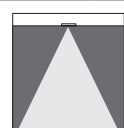
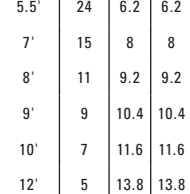
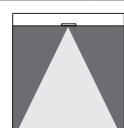
| Lumens | 120V | | 277V | |
|-------------------|------------|---------------|------------|---------------|
| | Inrush (A) | Duration (ms) | Inrush (A) | Duration (ms) |
| 1000 Lumen D010 | 1.02 | 0.041 | 2.18 | 0.021 |
| 1500 Lumen D010 | 1.02 | 0.042 | 2.24 | 0.064 |
| 2000 Lumen D010 | 1.02 | 0.077 | 2.43 | 0.027 |
| 3000 Lumen D010 | 1.15 | 0.067 | 3.26 | 0.027 |
| 4000 Lumen D010 | 1.2 | 0.088 | 3.9 | 0.03 |
| 5000 Lumen D010TE | 5.1 | 0.132 | 10.2 | 0.153 |
| 6000 Lumen D010TE | 5.4 | 0.123 | 10.8 | 0.154 |
| 7000 Lumen D010TE | 4.9 | 0.13 | 9.8 | 0.156 |

PHOTOMETRY

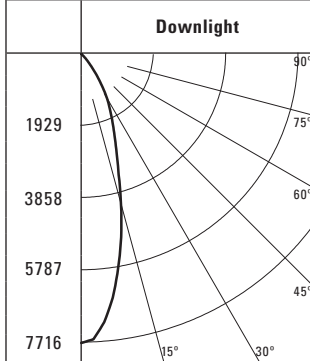
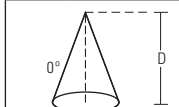
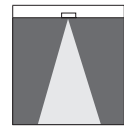
| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | |
|---|--------------|---|--|---|--|--|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|
| Test Number | P201217 |  | |  | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B15D010 | | | | | | | 0 | 2709 | 0-30 | 960 | 80.4 | 45 | 677 | | | | |
| Module | EU6B10208035 | | | | | | | 5 | 2526 | 0-40 | 1149 | 96.2 | 55 | 76 | | | | |
| Trim | 6LBN1LI | | | | | | | 15 | 1468 | 0-60 | 1193 | 99.9 | 65 | 26 | | | | |
| Lumens | 1195 | | | | | | | 25 | 708 | 0-90 | 1195 | 100 | 75 | 0 | | | | |
| Efficacy | 83.6 Lm/W |  | |  | | | | 75 | 0 | 90-180 | 0 | 0 | 75 | 0 | | | | |
| SC | 0.53 | | | | | | | 85 | 0 | 0-180 | 1195 | 100 | 85 | 0 | | | | |
|  | | | | | | | | 90 | 0 | | | | | | | | | |
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| MEDIUM (50° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | |
|---|--------------|---|--|---|--|----|---|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|
| Test Number | P201215 |  | |  | | | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | |
| Housing | LD6B15D010 | | | | | | | 0 | 1683 | 0-30 | 990 | 73.6 | 45 | 1159 | |
| Module | EU6B10208035 | | | | | | | 5 | 1661 | 0-40 | 1265 | 94 | 55 | 130 | |
| Trim | 6LBM1LI | | | | | | | 15 | 1386 | 0-60 | 1341 | 99.7 | 65 | 87 | |
| Lumens | 1345 | | | | | | | 25 | 993 | 0-90 | 1345 | 100 | 75 | 71 | |
| Efficacy | 94.1 Lm/W |  | |  | | 65 | 3 | 90-180 | 0 | 0 | 85 | 0 | | | |
| SC | 0.85 | | | | | 75 | 2 | 0-180 | 1345 | 100 | | | | | |
| | | | | | | 85 | 0 | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | |
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| WIDE (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|
| Test Number | P201213 |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B15D010 | | | | | 0 | 963 | 0-30 | 785 | 51.7 | 45 | 4835 | | | | |
| Module | EU6B10208035 | | | | | 5 | 963 | 0-40 | 1207 | 79.5 | 55 | 1055 | | | | |
| Trim | 6LBW1LI | | | | | 15 | 976 | 0-60 | 1510 | 99.4 | 65 | 151 | | | | |
| Lumens | 1519 | | | | | 25 | 913 | 0-90 | 1519 | 100 | 75 | 84 | | | | |
| Efficacy | 106.2 Lm/W | | |  | | 65 | 6 | 90-180 | 0 | 0 | 85 | 0 | | | | |
| SC | 1.23 | | | | | 75 | 2 | 0-180 | 1519 | 100 | | | | | | |
|  | | | | | | 85 | 0 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |
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| SHALLOW (75° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | | | |
|---|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|--|--|
| Test Number | P201212 |  | |  | | Degrees Vertical | Canдела | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | | | |
| Housing | LD6B15D010 | | | | | 0 | 710 | 0-30 | 529 | 34.2 | 45 | 36260 | | | | |
| Module | EU6B10208035 | | | | | 5 | 704 | 0-40 | 843 | 54.5 | | | | | | |
| Trim | 6LBCS1MMS | | | | | 15 | 666 | 0-60 | 1377 | 89 | 65 | 20068 | | | | |
| Lumens | 1546 | | | | | 25 | 596 | 0-90 | 1546 | 100 | | | | | | |
| Efficacy | 110.4 Lm/W |  | |  | | 65 | 130 | 90-180 | 0 | 0 | 75 | 8318 | | | | |
| SC | 1.16 | | | | | 75 | 33 | 0-180 | 1546 | 100 | | | | | | |
|  | | | | | | 85 | 1 | | | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | | | |
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PHOTOMETRY

| NARROW (30° BEAM) | | CANDLEPOWER DISTRIBUTION | | CONE OF LIGHT | | CANDELA TABLE | | ZONAL LUMEN SUMMARY | | | LUMINANCE | | | |
|--|--------------|---|--|---|--|------------------|---------|---------------------|--------|-----------|-------------------------|----------------------|--|--|
| Test Number | P201218 |  | |  | | Degrees Vertical | Candela | Zone | Lumens | % Fixture | Average Candela Degrees | Average 0° Luminance | | |
| Housing | LD6B40D010 | | | | | 0 | 7716 | 0-30 | 2735 | 80.4 | 45 | 1928 | | |
| Module | EU6B30508035 | | | | | 5 | 7196 | 0-40 | 3274 | 96.2 | 55 | 215 | | |
| Trim | 6LBN1LI | | | | | 15 | 4183 | 0-60 | 3399 | 99.9 | 65 | 74 | | |
| Lumens | 3404 | | | | | 25 | 2017 | 0-90 | 3404 | 100 | 75 | 0 | | |
| Efficacy | 81.4 Lm/W | | | | | 35 | 126 | 90-180 | 0 | 0 | 85 | 0 | | |
| SC | 0.53 | | | | | 55 | 11 | 0-180 | 3404 | 100 | | | | |
|  | | | | | | 65 | 3 | | | | | | | |
| | | | | | | 75 | 0 | | | | | | | |
| | | | | | | 85 | 0 | | | | | | | |
| | | | | | | 90 | 0 | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | D | FC | L | W | | | | | |
| | | | | | | 5.5' | 255 | 2.8 | 2.8 | | | | | |
| | | | | | | 7' | 158 | 3.6 | 3.6 | | | | | |
| | | | | | | 8' | 121 | 4.2 | 4.2 | | | | | |
| | | | | | | 9' | 95 | 4.6 | 4.6 | | | | | |
| | | | | | | 10' | 77 | 5.2 | 5.2 | | | | | |
| | | | | | | 12' | 54 | 6.2 | 6.2 | | | | | |
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Acion

Large LED Accent

ACCL / BLK



Features

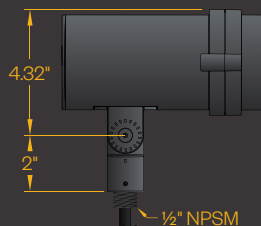
The Amerlux Acion accent luminaire employs solid state technology and precision engineering to provide small scale LED solutions in landscape and architecture layouts. All components are encapsulated inside a single attractive enclosure designed for superior performance in weather resistant applications. Offered in a choice of beam spreads, finishes, and color temperatures, two mounting options and glare shield are also available.

Product Overview

| | |
|---------------|--------------------------|
| Wattage: | 17W |
| Lumen Output: | 1,360 lm |
| Color Temp: | 2,700K / 3,000K / 3,500K |
| Dimming: | ELV at 120v only |

PROJECT:

TYPE:



Construction:

- Die-cast aluminum
- IP67 sealed optical chamber and integral driver chamber
- Easy "two-screw" integral driver access, does not disturb optical chamber seal
- Flush lens prevents puddles/water deposits in upward facing applications
- Knuckle mount
- Vertical aiming lock, with tamper-resistant tooled locking after final aiming

Optics:

- Lumen maintenance: 70% @ 50,000 hours
- 10°, 15°, 30°, 40°, 60°, 60x10, 60x30, 90x60 beam spreads are available with secondary shaping lens

Electrical:

- Integral driver
- Input voltage 120v-277v auto-sensing
- 1/2" NPSM wire entry
- Drive current 700mA
- Power consumption 17W
- ELV dimmable at 120v only

ETL listed, suitable for wet locations.

Accessories:

- Ground Stake (**GSP17**)
- Ground Spike (**GSP2**)
- Junction Box (**JBOX**)
- Junction Mount (**JCOV**)

Optical Accessories:

- Hexell Louver (**HCL**)
- Half Glare Shield (**HGL**)

Finish:

Premium quality thermoset polyester powdercoat for a durable finish.

BLK -Satin Black
CLB -Classic Bronze

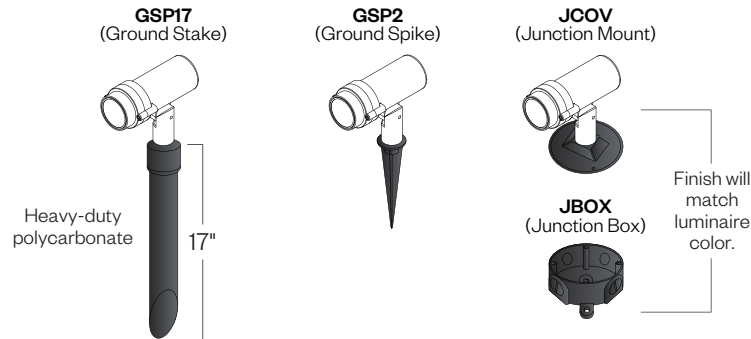
GRN -Green
CSTM -Custom



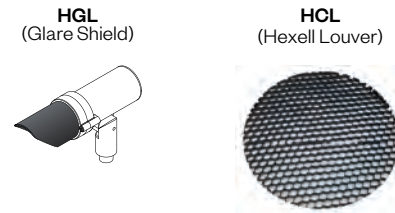
PROJECT:

TYPE:

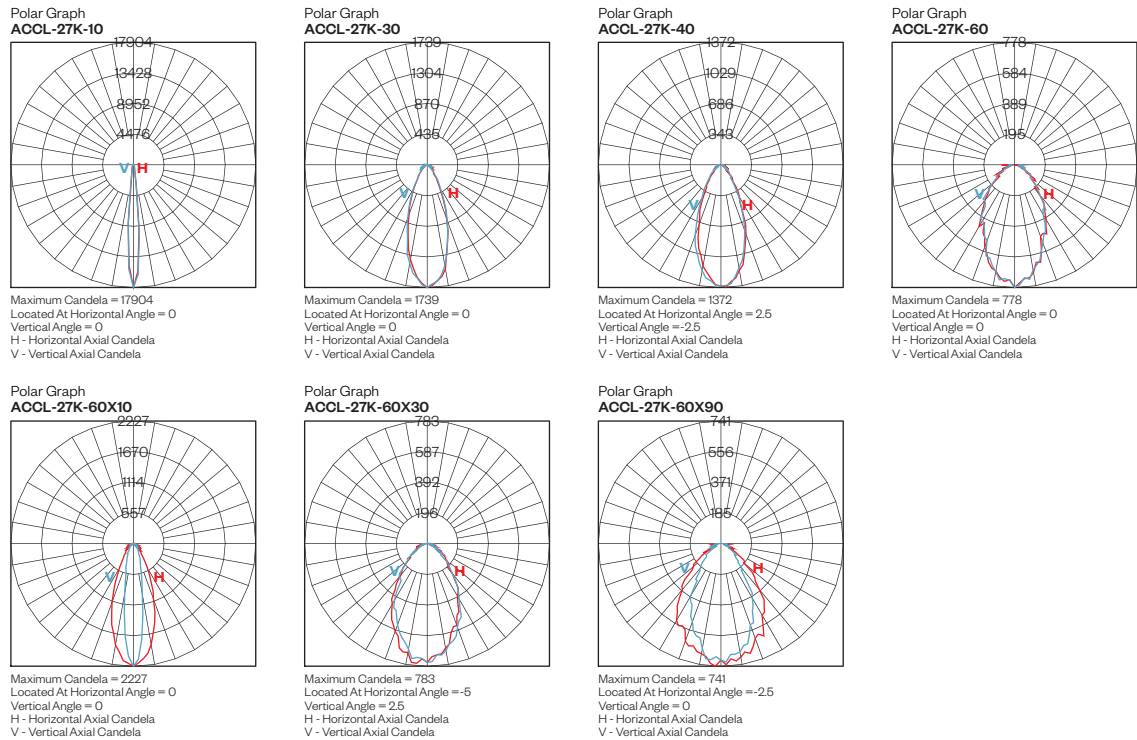
Accessories:



Optical Accessories:



Optical Performance:



Data represents the use of light shaping filters
Complete photometric data (ies format) available upon request

Ordering Information

| Model | CCT | Beam Spread | Approx. Lumens | Total Efficacy | Mounting | Finish | Accessories | Optical Accessories | |
|-------|---|--------------------|----------------|----------------|------------|-------------|---------------------------|-------------------------------|------------|
| ACCL | 27 (2,700K) 30 (3,000K) 35 (3,500K) | Symmetric Pattern | 10 (10°) | 1240-1360 | 72-80 lm/W | K (Knuckle) | BLK CLB GRN CSTM | GSP17 GSP2 JBOX JCOV | HCL HGL |
| | | | 15 (15°) | 1190-1305 | 70-76 lm/W | | | | |
| | | | 30 (30°) | 1140-1250 | 67-73 lm/W | | | | |
| | | | 40 (40°) | 1130-1250 | 66-73 lm/W | | | | |
| | | | 60 (60°) | 1110-1190 | 65-70 lm/W | | | | |
| | | Horizontal Pattern | H6010 (60x10) | 980-1180 | 57-69 lm/W | | | | |
| | | | H6030 (60x30) | 1070-1190 | 62-70 lm/W | | | | |
| | | | H9060 (90x60) | 1050-1170 | 61-68 lm/W | | | | |
| | | Vertical Pattern | V6010 (60x10) | 1180-980 | 69-57 lm/W | | | | |
| | | | V6030 (60x30) | 1190-1070 | 70-62 lm/W | | | | |
| | | | V9060 (90x60) | 1170-1050 | 68-61 lm/W | | | | |

Ordering options shown as **BOLD**. Example: **ACCL/27/40/K/BLK**

Cree Edge™ Series

LED Area Luminaire – Round

P1, P2, P3, P4, P5

Product Description

The Cree Edge™ Series has a slim, low profile design. Its rugged cast aluminum housing minimizes wind load requirements and features an integral, weathertight LED driver compartment, spun vented cover, high performance aluminum heat sinks and leaf/debris guard.

Applications: Auto Dealerships, parking lots, campuses, facade lighting and general site lighting applications

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

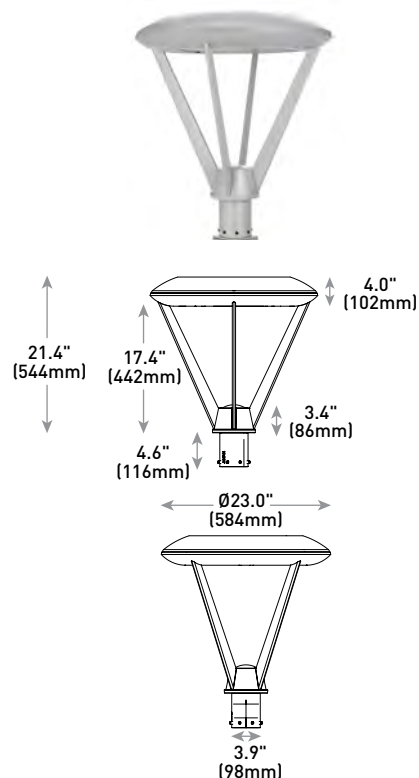
Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed | |
|---------------------------------|--|
| Bird Spikes XA-BRDSPK | Backlight Control Shields XA-20BLS-4 - Four-pack - Unpainted stainless steel |

R3 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 33.8 lbs. (15.3kg) |
| 06 | 35.2 lbs. (15.9kg) |
| 08 | 37.0 lbs. (16.8kg) |
| 10 | 40.7 lbs. (18.5kg) |
| 12 | 42.4 lbs. (19.3kg) |

R4/R5 Mount - see page 14 for weight & dimensions

Ordering Information

Example: ARE-EDR-2M-R3-12-E-UL-SV-350

| ARE-EDR | | | | E | | | | |
|---------|--|---|---|---|--|--|--|--|
| Product | Optic | Mounting* | LED Count (x10) | Series | Voltage | Color Options | Drive Current | Options |
| ARE-EDR | 2M Type II Medium 2MB Type II Medium w/BLS 2MP Type II Medium w/Partial BLS 3M Type III Medium 3MB Type III Medium w/BLS | 3MP Type III Medium w/Partial BLS 4M Type IV Medium 4MB Type IV Medium w/BLS 4MP Type IV Medium w/Partial BLS 5M Type V Medium 5S Type V Short | R3 Spider, Center Tenon, 2-3/8" to 3" OD R4 Spider, Center Direct, 4" Square R5 Spider, Center Direct, 5" Round | 04** 06** 08** 10 12 | E UL Universal 120-277V UH Universal 347-480V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA 700 700mA - Available with 40-60 LEDs | DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - When code dictates fusing, use time delay fuse - Available with UL voltage only - Available for U.S. applications only HL Hi/Low (Dual Circuit Input) - Refer to HL spec sheet for details - Sensor not included P Photocell - Available with UL voltage only 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |

* Reference EPA and pole configuration suitability data beginning on page 14

** Consists of multiple 20 LED light bars. 40, 60, and 80 LED units use blanks as needed in place of populated light bars

NOTE: Price adder may apply depending on configuration



US: lighting.cree.com/lighting

T (800) 236-6800 F (262) 504-5415

Rev. Date: V4 09/20/2016

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile, minimizing wind load requirements
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment, spun vented cover, and high performance aluminum heat sinks
- R3 spider mount hub slip-fits over a 2.375" (60mm) to 3" (76mm) O.D. steel or aluminum tenon or pole and secures with eight set screws
- R4 spider mount fits directly inside 4" (102mm) square pole and secures to pole with four set screws
- R5 spider mount fits directly inside of a 5" (127mm) round pole to provide a clean hardware-less outer appearance
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver, and white are available
- **Weight:** See Dimensions and Weight charts on pages 1 and 14

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- **10V Source Current:** 40-80 LEDs: 0.15mA; 100-120 LEDs: 0.30mA
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P option
- Certified to ANSI C136.31-2001, 1.5G normal vibration standards when ordered with R3, R4 and R5 mounts
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified. Exceptions apply when ordered with full backlight control or 3MP optic. Please refer to www.designlights.org/QPL for most current information
- Meets Buy American requirements within ARRA

| Electrical Data* | | | | | | | |
|--------------------|-----------------------------|-------------------|------|------|------|------|------|
| LED Count (x10) | System Watts 120-480V | Total Current (A) | | | | | |
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 12 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 525mA | | | | | | | |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 10 | 171 | 1.43 | 0.83 | 0.74 | 0.66 | 0.50 | 0.38 |
| 12 | 202 | 1.69 | 0.98 | 0.86 | 0.77 | 0.59 | 0.44 |
| 700mA | | | | | | | |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

| Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|----------------|---|---|--|---|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| 10°C (50°F) | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| 15°C (59°F) | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| 20°C (68°F) | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| 25°C (77°F) | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip

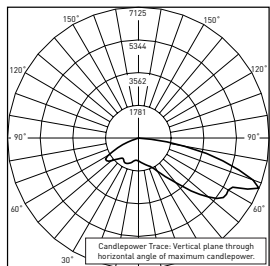
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing (IDUT) i.e. the packaged LED chip



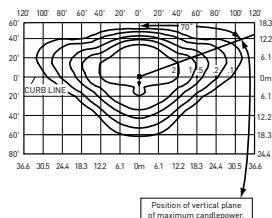
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

2M



CSA Test Report #: 6371
ARE-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,985



ARE-EDR-2M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

Type II Medium Distribution

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,003 | B1 U0 G1 | 5,102 | B1 U0 G1 |
| 06 | 7,418 | B2 U0 G2 | 7,565 | B2 U0 G2 |
| 08 | 9,891 | B2 U0 G2 | 10,087 | B2 U0 G2 |
| 10 | 12,334 | B2 U0 G2 | 12,578 | B2 U0 G2 |
| 12 | 14,801 | B3 U0 G3 | 15,094 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 7,099 | B2 U0 G2 | 7,248 | B2 U0 G2 |
| 06 | 10,527 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 08 | 14,037 | B3 U0 G3 | 14,331 | B3 U0 G3 |
| 10 | 17,504 | B3 U0 G3 | 17,870 | B3 U0 G3 |
| 12 | 21,004 | B3 U0 G3 | 21,444 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 8,379 | B2 U0 G2 | 8,549 | B2 U0 G2 |
| 06 | 12,425 | B2 U0 G2 | 12,678 | B2 U0 G2 |

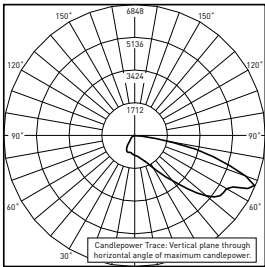
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

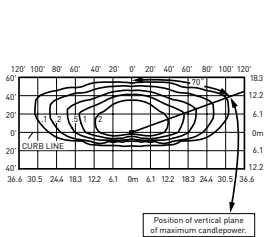
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

2MB



CSA Test Report #: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
Initial Delivered Lumens: 7,953



ARE-EDR-2MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

| Type II Medium Distribution w/BLS | | | | |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 3,768 | B1 U0 G1 | 3,843 | B1 U0 G1 |
| 06 | 5,588 | B1 U0 G1 | 5,698 | B1 U0 G1 |
| 08 | 7,450 | B1 U0 G2 | 7,598 | B1 U0 G2 |
| 10 | 9,291 | B1 U0 G2 | 9,475 | B1 U0 G2 |
| 12 | 11,149 | B1 U0 G2 | 11,370 | B1 U0 G2 |
| 525mA | | | | |
| 04 | 5,348 | B1 U0 G1 | 5,460 | B1 U0 G1 |
| 06 | 7,930 | B1 U0 G2 | 8,096 | B1 U0 G2 |
| 08 | 10,573 | B1 U0 G2 | 10,794 | B1 U0 G2 |
| 10 | 13,185 | B1 U0 G2 | 13,461 | B1 U0 G2 |
| 12 | 15,821 | B2 U0 G2 | 16,153 | B2 U0 G3 |
| 700mA | | | | |
| 04 | 6,311 | B1 U0 G1 | 6,440 | B1 U0 G1 |
| 06 | 9,359 | B1 U0 G2 | 9,549 | B1 U0 G2 |

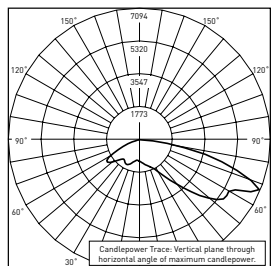
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

Cree Edge™ LED Area Luminaire – Round

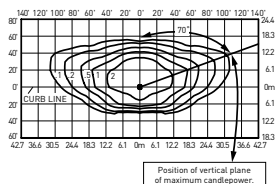
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

2MP



CSA Test Report #: 6361
ARE-EDG-2MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,912



ARE-EDR-2MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

Type II Medium Distribution w/Partial BLS

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,418 | B1 U0 G1 | 4,505 | B1 U0 G1 |
| 06 | 6,551 | B2 U0 G1 | 6,681 | B2 U0 G1 |
| 08 | 8,735 | B2 U0 G2 | 8,908 | B2 U0 G2 |
| 10 | 10,892 | B2 U0 G2 | 11,108 | B2 U0 G2 |
| 12 | 13,071 | B2 U0 G2 | 13,330 | B2 U0 G2 |
| 525mA | | | | |
| 04 | 6,270 | B1 U0 G1 | 6,401 | B2 U0 G1 |
| 06 | 9,297 | B2 U0 G2 | 9,492 | B2 U0 G2 |
| 08 | 12,396 | B2 U0 G2 | 12,656 | B2 U0 G2 |
| 10 | 15,458 | B2 U0 G3 | 15,782 | B2 U0 G3 |
| 12 | 18,549 | B3 U0 G3 | 18,938 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,400 | B2 U0 G2 | 7,550 | B2 U0 G2 |
| 06 | 10,973 | B2 U0 G2 | 11,196 | B2 U0 G2 |

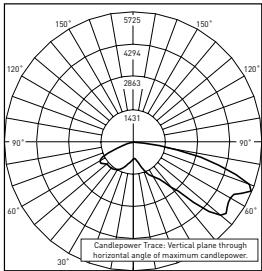
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

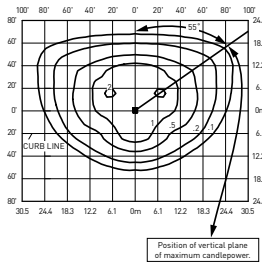
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

3M



RESTL Test Report #: PL09276-001A
ARE-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,333



ARE-EDR-3M-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 11,779
Initial FC at grade

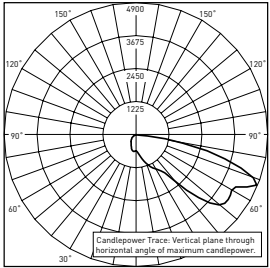
| Type III Medium Distribution | | | | |
|------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,743 | B1 U0 G1 | 4,837 | B1 U0 G1 |
| 06 | 7,033 | B2 U0 G2 | 7,172 | B2 U0 G2 |
| 08 | 9,377 | B2 U0 G2 | 9,563 | B2 U0 G2 |
| 10 | 11,693 | B3 U0 G3 | 11,925 | B3 U0 G3 |
| 12 | 14,032 | B3 U0 G3 | 14,310 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 6,731 | B2 U0 G2 | 6,872 | B2 U0 G2 |
| 06 | 9,981 | B3 U0 G3 | 10,190 | B3 U0 G3 |
| 08 | 13,307 | B3 U0 G3 | 13,586 | B3 U0 G3 |
| 10 | 16,594 | B3 U0 G3 | 16,942 | B3 U0 G3 |
| 12 | 19,913 | B3 U0 G3 | 20,330 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,944 | B2 U0 G2 | 8,105 | B2 U0 G2 |
| 06 | 11,779 | B3 U0 G3 | 12,019 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

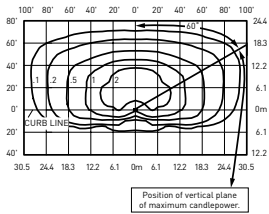
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

3MB



CSA Test Report #: 6648
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



ARE-EDR-3MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 12,275
Initial FC at grade

| Type III Medium Distribution w/BLS | | | | |
|------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 3,508 | B1 U0 G1 | 3,578 | B1 U0 G1 |
| 06 | 5,202 | B1 U0 G2 | 5,305 | B1 U0 G2 |
| 08 | 6,936 | B1 U0 G2 | 7,074 | B1 U0 G2 |
| 10 | 8,650 | B1 U0 G2 | 8,821 | B1 U0 G2 |
| 12 | 10,380 | B1 U0 G3 | 10,585 | B1 U0 G3 |
| 525mA | | | | |
| 04 | 4,979 | B1 U0 G2 | 5,083 | B1 U0 G2 |
| 06 | 7,383 | B1 U0 G2 | 7,538 | B1 U0 G2 |
| 08 | 9,844 | B1 U0 G2 | 10,050 | B1 U0 G3 |
| 10 | 12,275 | B1 U0 G3 | 12,532 | B1 U0 G3 |
| 12 | 14,730 | B2 U0 G3 | 15,039 | B2 U0 G3 |
| 700mA | | | | |
| 04 | 5,876 | B1 U0 G2 | 5,996 | B1 U0 G2 |
| 06 | 8,714 | B1 U0 G2 | 8,891 | B1 U0 G2 |

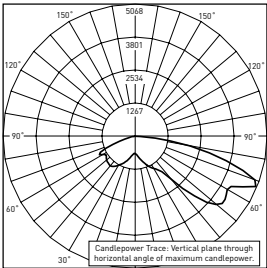
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



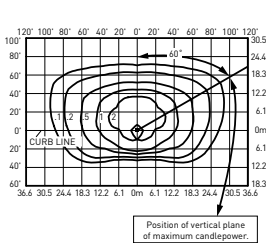
Photometry

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3MP



CSA Test Report #: 6385
ARE-EDG-3MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,619



ARE-EDR-3MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,548
Initial FC at grade

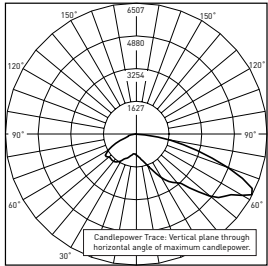
| Type III Medium Distribution w/Partial BLS | | | | |
|--|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,158 | B1 U0 G1 | 4,240 | B1 U0 G1 |
| 06 | 6,166 | B1 U0 G2 | 6,288 | B1 U0 G2 |
| 08 | 8,221 | B2 U0 G2 | 8,384 | B2 U0 G2 |
| 10 | 10,252 | B2 U0 G2 | 10,455 | B2 U0 G3 |
| 12 | 12,302 | B2 U0 G3 | 12,546 | B2 U0 G3 |
| 525mA | | | | |
| 04 | 5,901 | B1 U0 G2 | 6,024 | B1 U0 G2 |
| 06 | 8,750 | B2 U0 G2 | 8,933 | B2 U0 G2 |
| 08 | 11,667 | B2 U0 G3 | 11,911 | B2 U0 G3 |
| 10 | 14,548 | B3 U0 G3 | 14,853 | B3 U0 G3 |
| 12 | 17,458 | B3 U0 G3 | 17,824 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 6,964 | B2 U0 G2 | 7,106 | B2 U0 G2 |
| 06 | 10,327 | B2 U0 G2 | 10,537 | B2 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

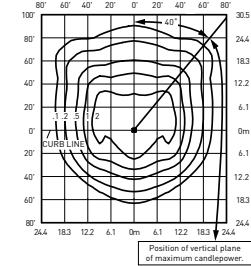
Photometry

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4M



CSA Test Report #: 6438
ARE-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,367



ARE-EDR-4M-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 17,504
Initial FC at grade

| Type IV Medium Distribution | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,003 | B2 U0 G1 | 5,102 | B2 U0 G1 |
| 06 | 7,418 | B2 U0 G2 | 7,565 | B2 U0 G2 |
| 08 | 9,891 | B2 U0 G2 | 10,087 | B2 U0 G2 |
| 10 | 12,334 | B3 U0 G3 | 12,578 | B3 U0 G3 |
| 12 | 14,801 | B3 U0 G3 | 15,094 | B3 U0 G3 |
| 525mA | | | | |
| 04 | 7,099 | B2 U0 G2 | 7,248 | B2 U0 G2 |
| 06 | 10,527 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 08 | 14,037 | B3 U0 G3 | 14,331 | B3 U0 G3 |
| 10 | 17,504 | B3 U0 G3 | 17,870 | B3 U0 G3 |
| 12 | 21,004 | B3 U0 G3 | 21,444 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 8,379 | B2 U0 G2 | 8,549 | B2 U0 G2 |
| 06 | 12,425 | B3 U0 G3 | 12,678 | B3 U0 G3 |

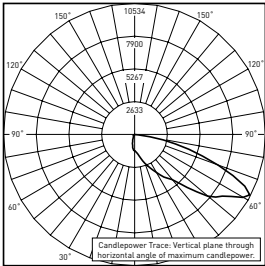
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf



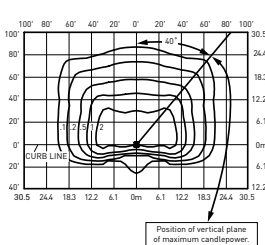
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



ARE-EDR-4MB-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,185
Initial FC at grade

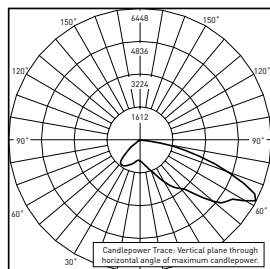
| Type IV Medium Distribution w/BLS | | | | |
|-----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 3,768 | B1 U0 G1 | 3,843 | B1 U0 G1 |
| 06 | 5,588 | B1 U0 G1 | 5,698 | B1 U0 G2 |
| 08 | 7,450 | B1 U0 G2 | 7,598 | B1 U0 G2 |
| 10 | 9,291 | B1 U0 G2 | 9,475 | B1 U0 G2 |
| 12 | 11,149 | B1 U0 G2 | 11,370 | B1 U0 G2 |
| 525mA | | | | |
| 04 | 5,348 | B1 U0 G1 | 5,460 | B1 U0 G1 |
| 06 | 7,930 | B1 U0 G2 | 8,096 | B1 U0 G2 |
| 08 | 10,573 | B1 U0 G2 | 10,794 | B1 U0 G2 |
| 10 | 13,185 | B1 U0 G2 | 13,461 | B1 U0 G2 |
| 12 | 15,821 | B2 U0 G3 | 16,153 | B2 U0 G3 |
| 700mA | | | | |
| 04 | 6,311 | B1 U0 G2 | 6,440 | B1 U0 G2 |
| 06 | 9,359 | B1 U0 G2 | 9,549 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf

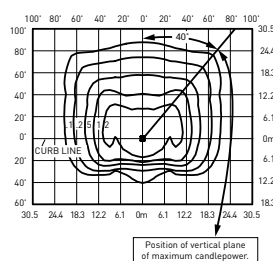
Photometry

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4MP



CSA Test Report #: 6417
ARE-EDG-4MP-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,989



ARE-EDR-4MP-**-10-E-UL-525-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,458
Initial FC at grade

Type IV Medium Distribution w/Partial BLS

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 4,418 | B1 U0 G1 | 4,505 | B1 U0 G1 |
| 06 | 6,551 | B2 U0 G1 | 6,681 | B2 U0 G1 |
| 08 | 8,735 | B2 U0 G2 | 8,908 | B2 U0 G2 |
| 10 | 10,892 | B2 U0 G2 | 11,108 | B2 U0 G2 |
| 12 | 13,071 | B2 U0 G2 | 13,330 | B2 U0 G2 |
| 525mA | | | | |
| 04 | 6,270 | B2 U0 G1 | 6,401 | B2 U0 G1 |
| 06 | 9,297 | B2 U0 G2 | 9,492 | B2 U0 G2 |
| 08 | 12,396 | B2 U0 G2 | 12,656 | B2 U0 G2 |
| 10 | 15,458 | B3 U0 G2 | 15,782 | B3 U0 G2 |
| 12 | 18,549 | B3 U0 G2 | 18,938 | B3 U0 G3 |
| 700mA | | | | |
| 04 | 7,400 | B2 U0 G2 | 7,550 | B2 U0 G2 |
| 06 | 10,973 | B2 U0 G2 | 11,196 | B2 U0 G2 |

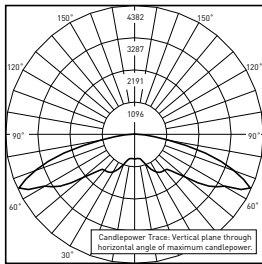
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

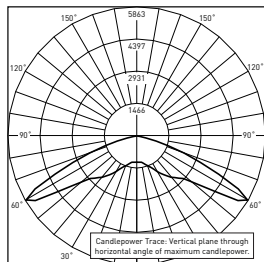
5M



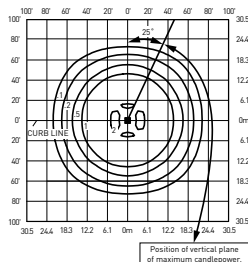
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/area/cree-edge-series-1>

55



Restl Test Report #: PL09286-001A
ARE-EDG-5S-**-06-E-UL-700-40K
Initial Delivered Lumens: 14,123



ARE-EDR-5S-**-06-E-UL-700-40K
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,523
Initial FC at grade

Type V Short Distribution

| LED Count (x10) | 4000K | | 5700K | |
|-----------------|---------------------------|----------------------------|---------------------------|----------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 04 | 5,847 | B3 U0 G1 | 5,963 | B3 U0 G1 |
| 06 | 8,671 | B3 U0 G1 | 8,842 | B3 U0 G1 |
| 08 | 11,561 | B3 U0 G2 | 11,790 | B3 U0 G2 |
| 10 | 14,416 | B4 U0 G2 | 14,702 | B4 U0 G2 |
| 12 | 17,300 | B4 U0 G2 | 17,642 | B4 U0 G2 |
| 525mA | | | | |
| 04 | 8,298 | B3 U0 G1 | 8,472 | B3 U0 G1 |
| 06 | 12,305 | B3 U0 G2 | 12,563 | B3 U0 G2 |
| 08 | 16,406 | B4 U0 G2 | 16,750 | B4 U0 G2 |
| 10 | 20,459 | B4 U0 G2 | 20,887 | B4 U0 G2 |
| 12 | 24,551 | B4 U0 G2 | 25,065 | B4 U0 G2 |
| 700mA | | | | |
| 04 | 9,793 | B3 U0 G1 | 9,993 | B3 U0 G2 |
| 06 | 14,523 | B4 U0 G2 | 14,818 | B4 U0 G2 |

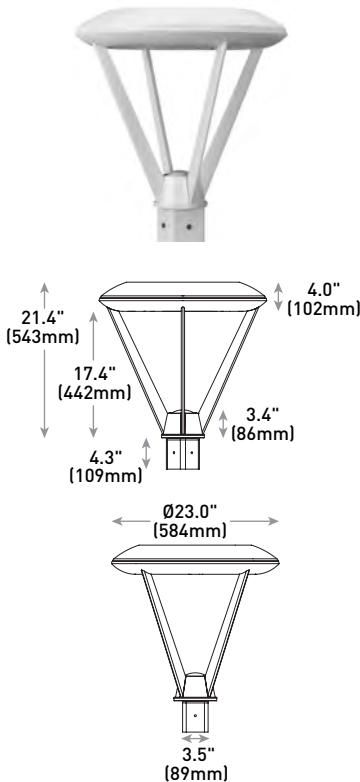
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.ies.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Luminaire EPA

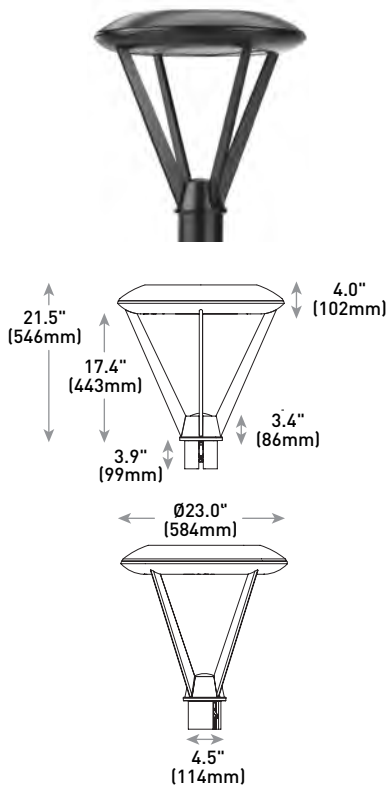
| Post Top Mount – ARE-EDR-R3/R4/R5 | | |
|-----------------------------------|-----------|--------------|
| LED Count (x10) | Single R3 | Single R4/R5 |
| 04 | 1.81 | 1.67 |
| 06 | 1.81 | 1.67 |
| 08 | 1.81 | 1.67 |
| 10 | 1.81 | 1.67 |
| 12 | 1.81 | 1.67 |

R4 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 36.2 lbs. (16.4kg) |
| 06 | 37.6 lbs. (17.0kg) |
| 08 | 39.3 lbs. (17.8kg) |
| 10 | 43.0 lbs. (19.5kg) |
| 12 | 44.8 lbs. (20.3kg) |

R5 Mount



| LED Count (x10) | Weight |
|-----------------|--------------------|
| 04 | 33.3 lbs. (15.1kg) |
| 06 | 34.6 lbs. (15.7kg) |
| 08 | 36.4 lbs. (16.5kg) |
| 10 | 40.1 lbs. (18.2kg) |
| 12 | 41.9 lbs. (19.0kg) |

Cree Edge™ Series

LED Security Wall Pack Luminaire

W1

Product Description

The Cree Edge™ wall mount luminaire has a slim, low profile design. The luminaire end caps are made from rugged die cast aluminum with integral, weathertight LED driver compartments and high performance aluminum heat sinks specifically designed for LED applications. Housing is rugged aluminum. Includes a lightweight mounting box for installation over standard and mud ring single gang J-Boxes. Secures to wall with four 3/16" (5mm) screws (by others). Conduit entry from top, bottom, sides and rear. Allows mounting for uplight or downlight. Designed and approved for easy through-wiring. Includes leaf/debris guard.

Applications: General area and security lighting

Performance Summary

Patented NanoOptic® Product Technology

Made in the U.S.A. of U.S. and imported parts

CRI: Minimum 70 CRI

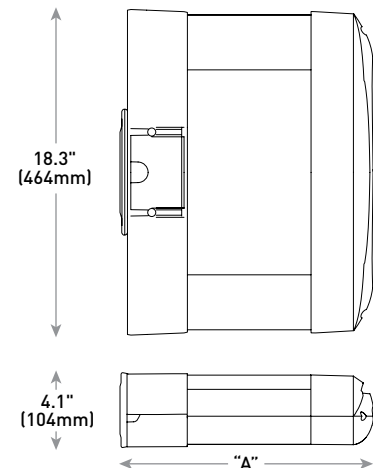
CCT: 4000K (+/- 300K), 5700K (+/- 500K) standard

Limited Warranty*: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

* See <http://lighting.cree.com/warranty> for warranty terms

Accessories

| Field-Installed | |
|---------------------------------|--|
| Bird Spikes XA-BRDSBK | Hand-Held Remote XA-SENSREM - For successful implementation of the programmable multi-level option, a minimum of one hand-held remote is required |



| LED Count (x10) | Dim. "A" | Weight |
|-----------------|---------------|------------------|
| 02 | 9.9" (251mm) | 20 lbs. (9.1kg) |
| 04 | 11.9" (303mm) | 22 lbs. (10.0kg) |
| 06 | 13.9" (353mm) | 25 lbs. (11.3kg) |
| 08 | 15.9" (404mm) | 27 lbs. (12.2kg) |
| 10 | 17.9" (455mm) | 31 lbs. (14.1kg) |
| 12 | 19.9" (505mm) | 32 lbs. (14.5kg) |

Ordering Information

Example: SEC-EDG-2M-WM-06-E-UL-SV-700

| SEC-EDG | | WM | | E | | | | |
|---------|-------------------------------------|-------------------------|-----------------|----------|------------------------------------|--|--|--|
| Product | Optic | Mounting | LED Count (x10) | Series | Voltage | Color Options | Drive Current | Options |
| SEC-EDG | 2M Type II Medium | WM Wall Mount | 02 | E | UL Universal 120-277V | BK Black BZ Bronze SV Silver WH White | 350 350mA 525 525mA 700 700mA -Available with 20-80 LEDs 700 700mA -Available with 20-60 LEDs | DIM 0-10V Dimming - Control by others - Refer to Dimming spec sheet for details - Can't exceed specified drive current F Fuse - Refer to ML spec sheet for availability with ML options - Available with UL voltage only - Available for U.S. applications only - When code dictates fusing, use time delay fuse ML Multi-Level - Refer to ML spec sheet for details - Intended for downlight applications with 0° tilt P Photocell - Refer to ML spec sheet for availability with ML options - Must specify UL or 34 voltage PML Programmable Multi-Level - Refer to PML spec sheet for details - Intended for downlight applications with 0° tilt 40K 4000K Color Temperature - Minimum 70 CRI - Color temperature per luminaire |
| | 2MB Type II Medium w/BLS | | 04 | | | | | |
| | 2S Type II Short | | 06 | | | | | |
| | 2SB Type II Short w/BLS | | 08 | | | | | |
| | 3M Type III Medium | | 10 | | | | | |
| | 3MB Type III Medium w/BLS | | 12 | | | | | |
| | 4M Type IV Medium | | | | | | | |
| | 4MB Type IV Medium w/BLS | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |



US: lighting.cree.com

T (800) 236-6800 F (262) 504-5415

Rev. Date: V3 09/06/2017

Canada: www.cree.com/canada



T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design
- Luminaire sides are rugged die cast aluminum with integral, weathertight LED driver compartment and high performance aluminum heat sinks specifically designed for LED applications
- Housing is rugged aluminum
- Furnished with low copper, light weight mounting box designed for installation over standard and mud ring single gang J-Boxes
- Luminaire can also be direct mounted to a wall and surface wired
- Secures to wall with four 3/16" (5mm) screws (by others)
- Conduit entry from top, bottom, sides, and rear
- Allows mounting for uplight or downlight
- Designed and approved for easy through-wiring
- Includes leaf/debris guard
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultradurable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Black, bronze, silver and white are available
- **Weight:** See Dimensions and Weight Chart on page 1

ELECTRICAL SYSTEM

- **Input Voltage:** 120–277V or 347–480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral weathertight J-Box with leads (wire nuts) for easy power hook up
- Integral 10kV surge suppression protection standard
- When code dictates fusing, a slow blow fuse or type C/D breaker should be used to address inrush current
- **Maximum 10V Source Current:** 20 LED (350mA): 10mA; 20LED (525 & 700 mA) and 40-120 LED: 0.15mA

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Meets FCC Part 15, Subpart B, Class A standards for conducted and radiated emissions
- Enclosure rated IP66 per IEC 60529 when ordered without P, PML or ML options
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- DLC qualified with select SKUs. Refer to <https://www.designlights.org/search/> for most current information
- Meets Buy American requirements within ARRA

| Electrical Data* | | | | | | | |
|--------------------|-----------------------------|-------------------|------|------|------|------|------|
| LED Count (x10) | System Watts 120-480V | Total Current (A) | | | | | |
| | | 120V | 208V | 240V | 277V | 347V | 480V |
| 350mA | | | | | | | |
| 02 | 25 | 0.21 | 0.13 | 0.11 | 0.10 | 0.08 | 0.07 |
| 04 | 46 | 0.36 | 0.23 | 0.21 | 0.20 | 0.15 | 0.12 |
| 06 | 66 | 0.52 | 0.31 | 0.28 | 0.26 | 0.20 | 0.15 |
| 08 | 90 | 0.75 | 0.44 | 0.38 | 0.34 | 0.26 | 0.20 |
| 10 | 110 | 0.92 | 0.53 | 0.47 | 0.41 | 0.32 | 0.24 |
| 12 | 130 | 1.10 | 0.63 | 0.55 | 0.48 | 0.38 | 0.28 |
| 525mA | | | | | | | |
| 02 | 37 | 0.30 | 0.19 | 0.17 | 0.16 | 0.12 | 0.10 |
| 04 | 70 | 0.58 | 0.34 | 0.31 | 0.28 | 0.21 | 0.16 |
| 06 | 101 | 0.84 | 0.49 | 0.43 | 0.38 | 0.30 | 0.22 |
| 08 | 133 | 1.13 | 0.66 | 0.58 | 0.51 | 0.39 | 0.28 |
| 700mA | | | | | | | |
| 02 | 50 | 0.41 | 0.25 | 0.22 | 0.20 | 0.15 | 0.12 |
| 04 | 93 | 0.78 | 0.46 | 0.40 | 0.36 | 0.27 | 0.20 |
| 06 | 134 | 1.14 | 0.65 | 0.57 | 0.50 | 0.39 | 0.29 |

* Electrical data at 25°C (77°F). Actual wattage may differ by +/- 10% when operating between 120-480V +/- 10%

| Recommended Cree Edge™ Series Lumen Maintenance Factors (LMF) ¹ | | | | | |
|--|----------------|---|---|--|---|
| Ambient | Initial LMF | 25K hr Projected ² LMF | 50K hr Projected ² LMF | 75K hr Calculated ³ LMF | 100K hr Calculated ³ LMF |
| 5°C (41°F) | 1.04 | 1.01 | 0.99 | 0.98 | 0.96 |
| 10°C (50°F) | 1.03 | 1.00 | 0.98 | 0.97 | 0.95 |
| 15°C (59°F) | 1.02 | 0.99 | 0.97 | 0.96 | 0.94 |
| 20°C (68°F) | 1.01 | 0.98 | 0.96 | 0.95 | 0.93 |
| 25°C (77°F) | 1.00 | 0.97 | 0.95 | 0.94 | 0.92 |

¹ Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing

² In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times

(6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

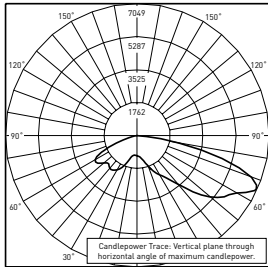
³ In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)



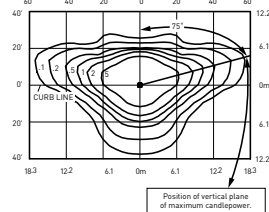
Photometry

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2M

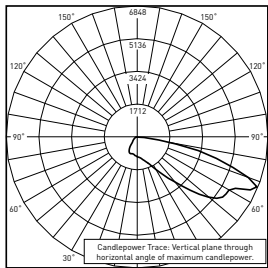


ITL Test Report #: 79174
SEC-EDG-2M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,128

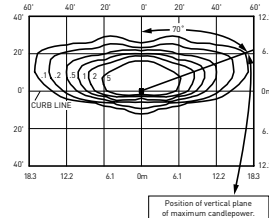


SEC-EDG-2M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

2MB



CSA Test Report #: 6447
ARE-EDG-2MB-**-06-E-UL-700-40K
Initial Delivered Lumens: 7,953



SEC-EDG-2MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

Type II Medium Distribution

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G2 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B3 U0 G3 | 10,947 | B3 U0 G3 |
| 12 | 12,650 | B3 U0 G3 | 13,137 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G2 | 6,216 | B2 U0 G2 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B3 U0 G3 | 12,290 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B3 U0 G3 | 11,259 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

Type II Medium Distribution w/BLS

| LED Count (x10) | 4000K | | 5700K | |
|--------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B0 U0 G1 | 3,345 | B0 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G1 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G1 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

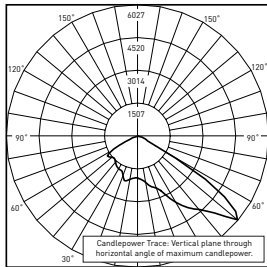
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



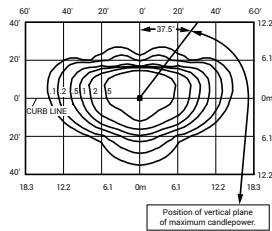
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

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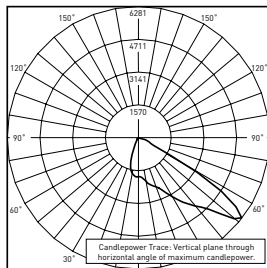


ITL Test Report #: 79175
SEC-EDG-25-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,704

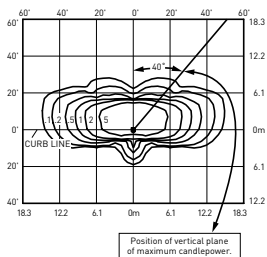


SEC-EDG-25-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 12,604
Initial FC at grade

25B



CSA Test Report #: 6454
ARE-EDG-25B-**-06-E-UL-700-40K
Initial Delivered Lumens: 9,202



SEC-EDG-25B-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 9,683
Initial FC at grade

| Type II Short Distribution | | | | |
|----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,277 | B1 U0 G1 | 2,364 | B1 U0 G1 |
| 04 | 4,553 | B1 U0 G1 | 4,728 | B1 U0 G1 |
| 06 | 6,752 | B2 U0 G2 | 7,012 | B2 U0 G2 |
| 08 | 9,003 | B2 U0 G2 | 9,349 | B2 U0 G2 |
| 10 | 11,226 | B3 U0 G3 | 11,658 | B3 U0 G3 |
| 12 | 13,472 | B3 U0 G3 | 13,990 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 3,187 | B1 U0 G1 | 3,310 | B1 U0 G1 |
| 04 | 6,375 | B2 U0 G2 | 6,620 | B2 U0 G2 |
| 06 | 9,453 | B2 U0 G2 | 9,816 | B3 U0 G3 |
| 08 | 12,604 | B3 U0 G3 | 13,088 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,893 | B1 U0 G1 | 4,043 | B1 U0 G1 |
| 04 | 7,786 | B2 U0 G2 | 8,086 | B2 U0 G2 |
| 06 | 11,546 | B3 U0 G3 | 11,990 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

| Type II Short Distribution w/BLS | | | | |
|----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,749 | B0 U0 G1 | 1,816 | B0 U0 G1 |
| 04 | 3,498 | B1 U0 G1 | 3,633 | B1 U0 G1 |
| 06 | 5,188 | B1 U0 G1 | 5,387 | B1 U0 G1 |
| 08 | 6,917 | B1 U0 G1 | 7,183 | B1 U0 G1 |
| 10 | 8,625 | B2 U0 G1 | 8,957 | B2 U0 G1 |
| 12 | 10,350 | B2 U0 G2 | 10,748 | B2 U0 G2 |
| 525mA | | | | |
| 02 | 2,449 | B1 U0 G1 | 2,543 | B1 U0 G1 |
| 04 | 4,898 | B1 U0 G1 | 5,086 | B1 U0 G1 |
| 06 | 7,263 | B1 U0 G1 | 7,542 | B1 U0 G1 |
| 08 | 9,683 | B2 U0 G2 | 10,056 | B2 U0 G2 |
| 700mA | | | | |
| 02 | 2,991 | B1 U0 G1 | 3,106 | B1 U0 G1 |
| 04 | 5,982 | B1 U0 G1 | 6,212 | B1 U0 G1 |
| 06 | 8,871 | B2 U0 G1 | 9,212 | B2 U0 G2 |

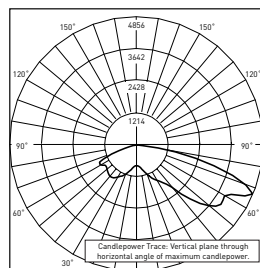
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: <https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

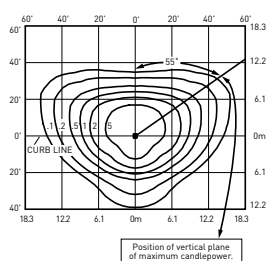
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

3M

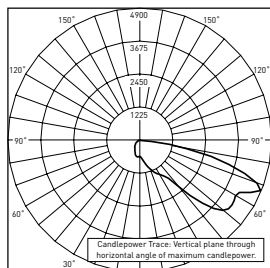


ITL Test Report #: 79173
SEC-EDG-3M-**-06-E-UL-700-40K
Initial Delivered Lumens: 10,343

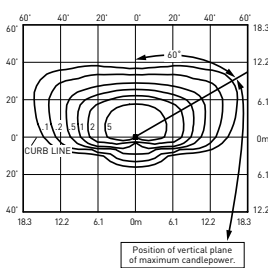


SEC-EDG-3M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,220
Initial FC at grade

3MB



CSA Test Report #: 6448
ARE-EDG-3MB-**-06-E-UL-700
Initial Delivered Lumens: 7,740



SEC-EDG-3MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,300
Initial FC at grade

| Type III Medium Distribution | | | | |
|------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,027 | B1 U0 G1 | 2,105 | B1 U0 G1 |
| 04 | 4,054 | B1 U0 G1 | 4,209 | B1 U0 G1 |
| 06 | 6,011 | B2 U0 G2 | 6,242 | B2 U0 G2 |
| 08 | 8,015 | B2 U0 G2 | 8,323 | B2 U0 G2 |
| 10 | 9,994 | B3 U0 G3 | 10,379 | B3 U0 G3 |
| 12 | 11,993 | B3 U0 G3 | 12,454 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,837 | B1 U0 G1 | 2,947 | B1 U0 G1 |
| 04 | 5,675 | B2 U0 G2 | 5,893 | B2 U0 G2 |
| 06 | 8,415 | B2 U0 G2 | 8,739 | B2 U0 G2 |
| 08 | 11,220 | B3 U0 G3 | 11,652 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,466 | B1 U0 G1 | 3,599 | B1 U0 G1 |
| 04 | 6,932 | B2 U0 G2 | 7,198 | B2 U0 G2 |
| 06 | 10,279 | B3 U0 G3 | 10,674 | B3 U0 G3 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

| Type III Medium Distribution w/BLS | | | | |
|------------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,499 | B1 U0 G1 | 1,557 | B1 U0 G1 |
| 04 | 2,999 | B1 U0 G1 | 3,114 | B1 U0 G1 |
| 06 | 4,446 | B1 U0 G1 | 4,617 | B1 U0 G1 |
| 08 | 5,929 | B1 U0 G2 | 6,157 | B1 U0 G2 |
| 10 | 7,393 | B1 U0 G2 | 7,677 | B1 U0 G2 |
| 12 | 8,872 | B1 U0 G2 | 9,213 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,099 | B1 U0 G1 | 2,180 | B1 U0 G1 |
| 04 | 4,198 | B1 U0 G1 | 4,359 | B1 U0 G1 |
| 06 | 6,225 | B1 U0 G2 | 6,464 | B1 U0 G2 |
| 08 | 8,300 | B1 U0 G2 | 8,619 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,564 | B1 U0 G1 | 2,662 | B1 U0 G1 |
| 04 | 5,127 | B1 U0 G2 | 5,325 | B1 U0 G2 |
| 06 | 7,603 | B1 U0 G2 | 7,896 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

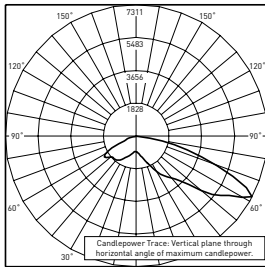
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



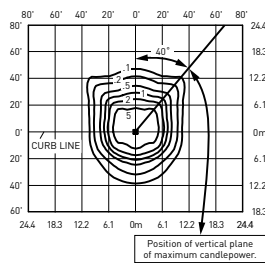
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP accredited laboratory. To obtain an IES file specific to your project consult: <http://lighting.cree.com/products/outdoor/wall-mount/cree-edge-series-5>

4M



ITL Test Report #: 78793
SEC-EDG-4M-**-06-E-UL-700-40K
Initial Delivered Lumens: 11,607



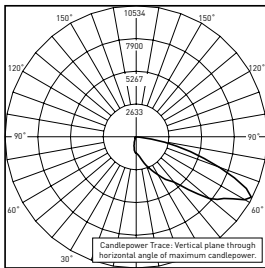
SEC-EDG-4M-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 11,835
Initial FC at grade

| Type IV Medium Distribution | | | | |
|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 2,138 | B1 U0 G1 | 2,220 | B1 U0 G1 |
| 04 | 4,276 | B1 U0 G1 | 4,440 | B1 U0 G1 |
| 06 | 6,340 | B2 U0 G2 | 6,584 | B2 U0 G2 |
| 08 | 8,454 | B2 U0 G2 | 8,779 | B2 U0 G2 |
| 10 | 10,542 | B2 U0 G2 | 10,947 | B3 U0 G3 |
| 12 | 12,650 | B3 U0 G3 | 13,137 | B3 U0 G3 |
| 525mA | | | | |
| 02 | 2,993 | B1 U0 G1 | 3,108 | B1 U0 G1 |
| 04 | 5,986 | B2 U0 G2 | 6,216 | B2 U0 G2 |
| 06 | 8,876 | B2 U0 G2 | 9,218 | B2 U0 G2 |
| 08 | 11,835 | B3 U0 G3 | 12,290 | B3 U0 G3 |
| 700mA | | | | |
| 02 | 3,656 | B1 U0 G1 | 3,796 | B1 U0 G1 |
| 04 | 7,311 | B2 U0 G2 | 7,593 | B2 U0 G2 |
| 06 | 10,842 | B3 U0 G3 | 11,259 | B3 U0 G3 |

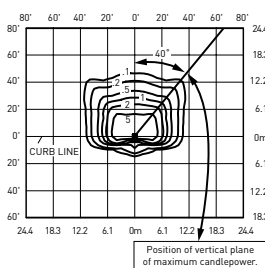
* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>

4MB



CSA Test Report #: 6449
ARE-EDG-4MB-**-12-E-UL-525-40K
Initial Delivered Lumens: 13,155



SEC-EDG-4MB-**-08-E-UL-525-40K
Mounting Height: 10' (3.0m) A.F.G.
Initial Delivered Lumens: 8,915
Initial FC at grade

| Type IV Medium Distribution w/BLS | | | | |
|-----------------------------------|---------------------------|----------------------------|---------------------------|----------------------------|
| LED Count (x10) | 4000K | | 5700K | |
| | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 | Initial Delivered Lumens* | BUG Ratings** Per TM-15-11 |
| 350mA | | | | |
| 02 | 1,610 | B0 U0 G1 | 1,672 | B0 U0 G1 |
| 04 | 3,221 | B1 U0 G1 | 3,345 | B1 U0 G1 |
| 06 | 4,776 | B1 U0 G1 | 4,959 | B1 U0 G1 |
| 08 | 6,368 | B1 U0 G2 | 6,613 | B1 U0 G2 |
| 10 | 7,941 | B1 U0 G2 | 8,246 | B1 U0 G2 |
| 12 | 9,529 | B1 U0 G2 | 9,895 | B1 U0 G2 |
| 525mA | | | | |
| 02 | 2,254 | B0 U0 G1 | 2,341 | B0 U0 G1 |
| 04 | 4,509 | B1 U0 G1 | 4,682 | B1 U0 G1 |
| 06 | 6,686 | B1 U0 G2 | 6,943 | B1 U0 G2 |
| 08 | 8,915 | B1 U0 G2 | 9,258 | B1 U0 G2 |
| 700mA | | | | |
| 02 | 2,754 | B0 U0 G1 | 2,860 | B0 U0 G1 |
| 04 | 5,507 | B1 U0 G1 | 5,719 | B1 U0 G2 |
| 06 | 8,167 | B1 U0 G2 | 8,481 | B1 U0 G2 |

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -10 and +10% of initial delivered lumens

** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit:
<https://www.ies.org/wp-content/uploads/2017/03/TM-15-11BUGRatingsAddendum.pdf>



Washer Quattro AC XB RGBW

The Washer Quattro AC XB RGBW is an AC line powered, high brightness luminaire. The luminaire is controllable via DMX512 with auto-addressing for easy configuration. The system is connected using a daisy chain topology, allowing easy installation to form long run lengths. Remote Device Management (RDM) circuits are built into each luminaire that enables extensive control and monitoring of the entire lighting installation.



Product Specifications

| | |
|---|--|
| Light Source | 4-in-1 LED cluster × 18 |
| Color Range | RGBW (White CCT 4000K) |
| Beam Angle | 13°, 30°, 40°, 60° |
| Luminous Flux | 3212 lm (13°) |
| Efficacy | 44 lm/W |
| Lumen Maintenance | L70 @25°C - 80,000hrs |
| Cover Lens | Tempered glass cover |
| Housing | Aluminium |
| Adjustment Options | 360° horizontal, 220° vertical |
| Size (W × H × D) | 291mm × 291mm × 218mm 11.5" × 11.5" × 8.6" |
| Weight | 8.3kg / 18.3lbs |
| Regulatory Listing & Safety Approval | CE, cETLus |
| Operating Temperature | –30°C to +50°C / –22°F to +122°F (–20°C / –4°F starting) |
| Storage Temperature | –40°C to +70°C / –40°F to +158°F |
| Environment | Outdoor (IP66) |
| Humidity | 85%, non-condensing |

Electrical Specifications

| | |
|----------------------------|---------------------|
| Input Voltage ¹ | 100-277V AC 50/60Hz |
| Power Consumption | 85W |
| Power Factor | ≥ 0.9 |

System Specifications

| | |
|--------------|---|
| Power | AC line |
| Control | DMX512 with auto-addressing, Remote Device Management (RDM) |
| Power Supply | Built-in |

1. Auto-switching. Single phase (line, neutral, and ground).

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time – a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

Lumen measurement complies with LM-79-08 standard.
Lumen maintenance is calculated based on LM-80 compliant measurement.

www.traxontechnologies.com

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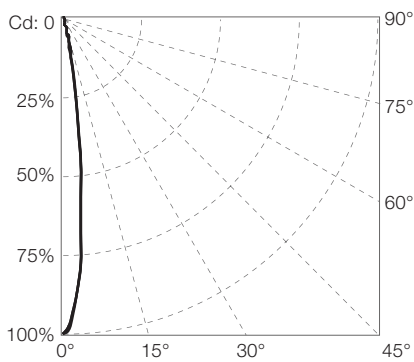
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 13° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 3212.32 | 35479.21 | 43.50 |
| White (RGB off) | 1791.46 | 20068.63 | 58.22 |
| RGB | 1502.16 | 16221.28 | 30.59 |
| Red | 369.01 | 3871.815 | 29.47 |
| Green | 1066.45 | 11719.53 | 37.33 |
| Blue | 92.98 | 989.538 | 5.25 |

Illuminance at a Distance

| | Center Beam LUX | Beam Width | |
|-----|-----------------|------------|------|
| | | V | H |
| 2m | 8869.80 | 0.5m | 0.5m |
| 4m | 2217.45 | 0.9m | 0.9m |
| 6m | 985.53 | 1.4m | 1.4m |
| 8m | 554.36 | 1.9m | 1.9m |
| 10m | 354.79 | 2.4m | 2.3m |
| 12m | 246.38 | 2.8m | 2.8m |

● Vert.Spread: 13.5°
● Horiz.Spread: 13.3°
For fc divide by 10.7

For feet multiply by 3.28

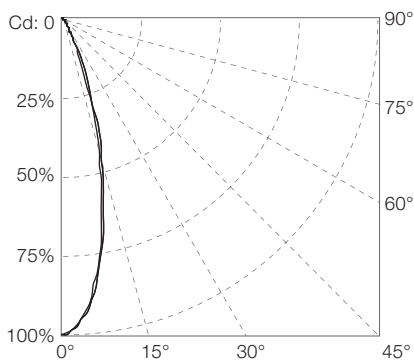
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 30° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2931.38 | 8112.26 | 39.7 |
| White (RGB off) | 1633.76 | 4543.98 | 53.1 |
| RGB | 1354.69 | 3723.67 | 27.58 |
| Red | 346.23 | 947.72 | 27.65 |
| Green | 970.62 | 2662.60 | 33.97 |
| Blue | 84.59 | 222.96 | 4.78 |

Illuminance at a Distance

| | Center Beam LUX | Beam Width V H |
|-----|-----------------|-------------------|
| 2m | 2028.07 | 1.1m 1.0m |
| 4m | 507.02 | 2.2m 2.1m |
| 6m | 225.34 | 3.3m 3.1m |
| 8m | 126.75 | 4.4m 4.2m |
| 10m | 81.12 | 5.5m 5.2m |
| 12m | 56.34 | 6.6m 6.2m |

● Vert.Spread: 30.6°
● Horiz.Spread: 29.2°
For fc divide by 10.7

For feet multiply by 3.28

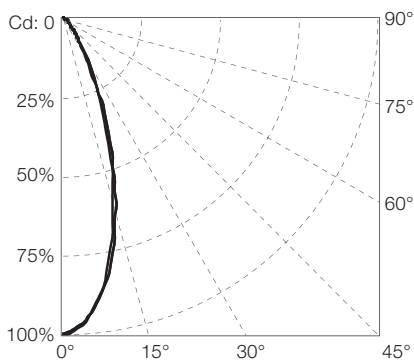
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 40° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2895.92 | 5488.632 | 39.22 |
| White (RGB off) | 1610.9 | 3217.009 | 52.35 |
| RGB | 1351.95 | 2660.115 | 27.53 |
| Red | 337.75 | 670.243 | 26.98 |
| Green | 960.79 | 1885.462 | 33.63 |
| Blue | 83.49 | 156.96 | 4.71 |

Illuminance at a Distance

| | Center Beam LUX | Beam Width | |
|-----|-----------------|------------|------|
| | | V | H |
| 2m | 1372.16 | 1.4m | 1.3m |
| 4m | 343.04 | 2.7m | 2.6m |
| 6m | 152.46 | 4.1m | 3.9m |
| 8m | 85.76 | 5.5m | 5.2m |
| 10m | 54.89 | 6.9m | 6.6m |
| 12m | 38.12 | 8.2m | 7.9m |

Vert.Spread: 37.9°

Horiz.Spread: 36.3°

For feet multiply by 3.28

For fc divide by 10.7

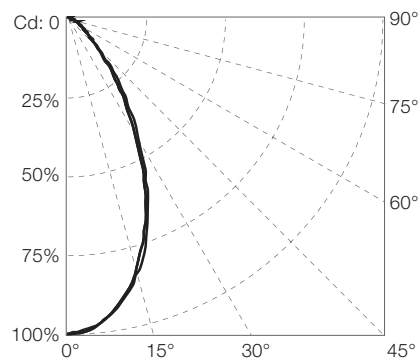
Washer Quattro AC XB RGBW

Photometrics

Source Specifications

| | |
|------------|---------------------|
| LED Source | 4-in-1 LED clusters |
| Beam Angle | 60° |

Candela Distribution



Light Output

| Color | Luminous Flux (lm) | Candela Distribution @100% | Efficacy (lm/W) |
|-----------------|--------------------|----------------------------|-----------------|
| White (full on) | 2845.25 | 2788.23 | 38.53 |
| White (RGB off) | 1592.87 | 1582.855 | 51.77 |
| RGB | 1332.38 | 1310.367 | 27.13 |
| Red | 332.48 | 330.717 | 26.56 |
| Green | 947.08 | 929.712 | 33.15 |
| Blue | 82.51 | 78.437 | 4.66 |

Illuminance at a Distance

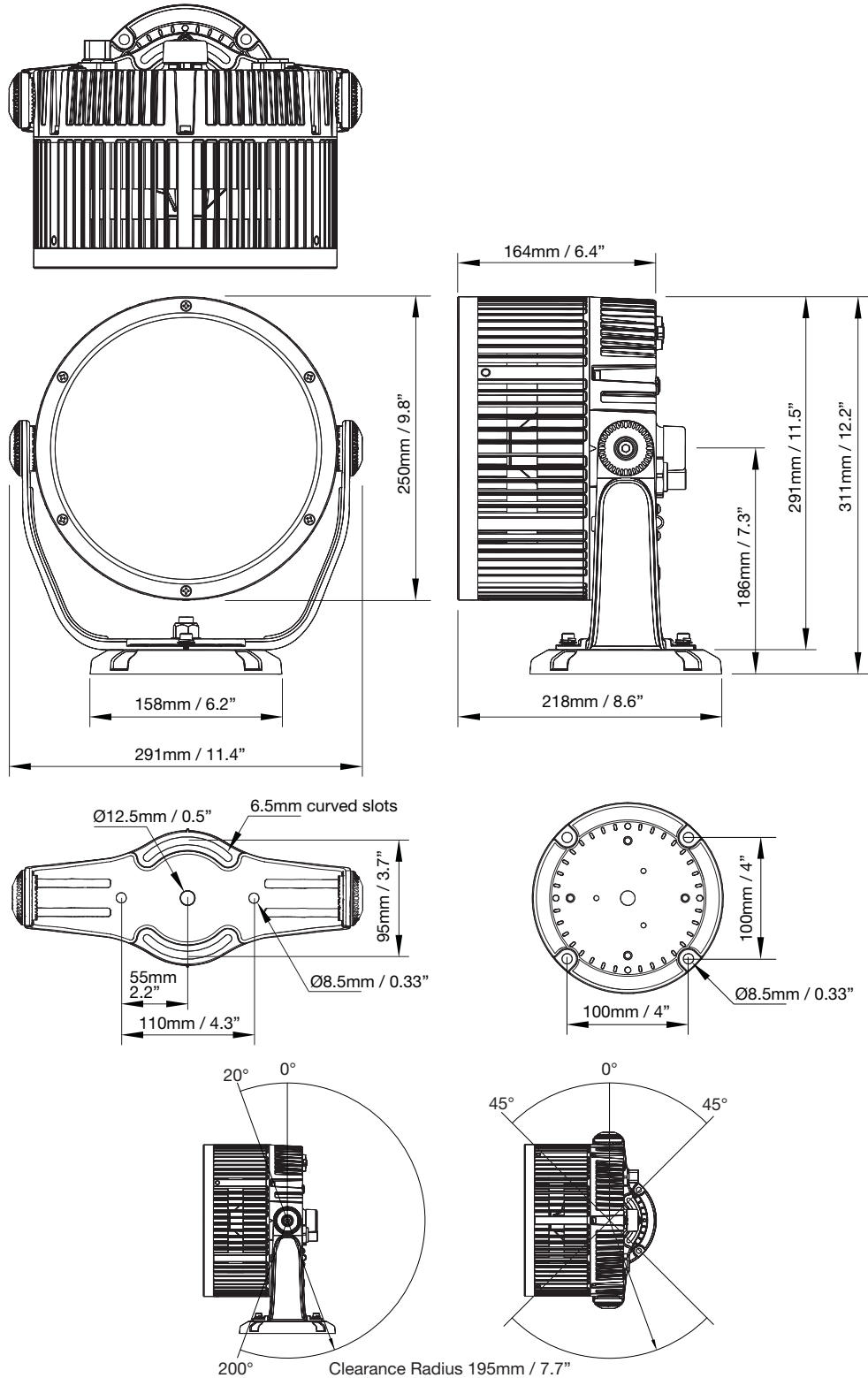
| | Center Beam LUX | Beam Width | V | H |
|-----|-----------------|------------|-------|---|
| 2m | 696.18 | 2.2m | 2.1m | |
| 4m | 174.05 | 4.4m | 4.2m | |
| 6m | 77.35 | 6.5m | 6.3m | |
| 8m | 43.51 | 8.7m | 8.4m | |
| 10m | 27.85 | 10.9m | 10.5m | |
| 12m | 19.34 | 13.1m | 12.6m | |

Vert.Spread: 57.2°

Horiz.Spread: 55.4°

For feet multiply by 3.28

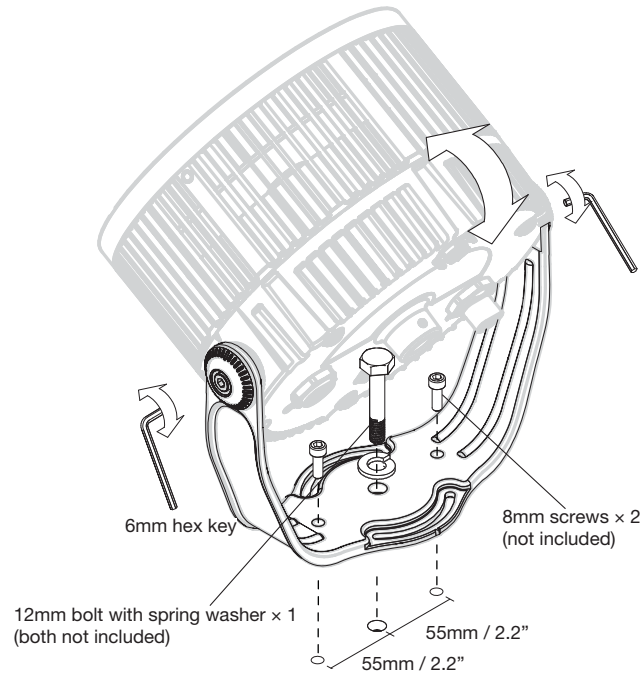
For fc divide by 10.7



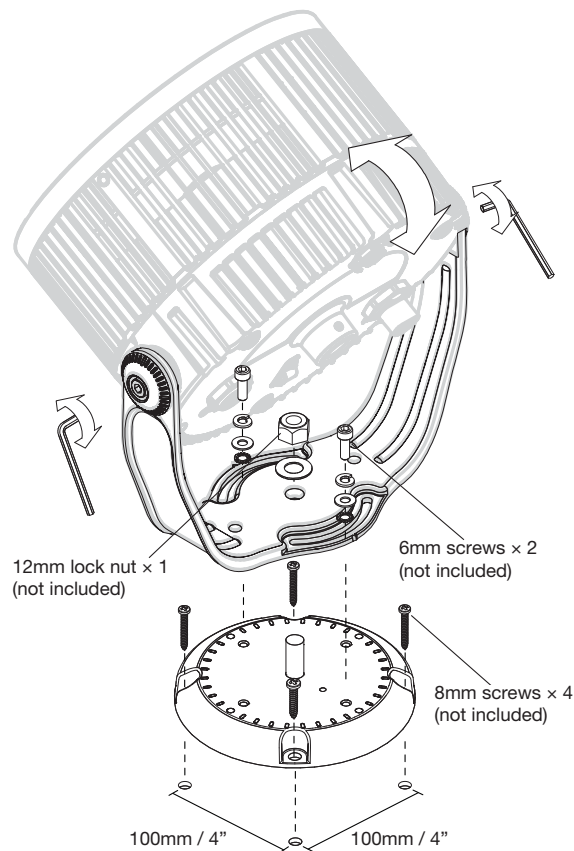
Washer Quattro AC XB RGBW

Mounting

Mounting without base



Mounting with base



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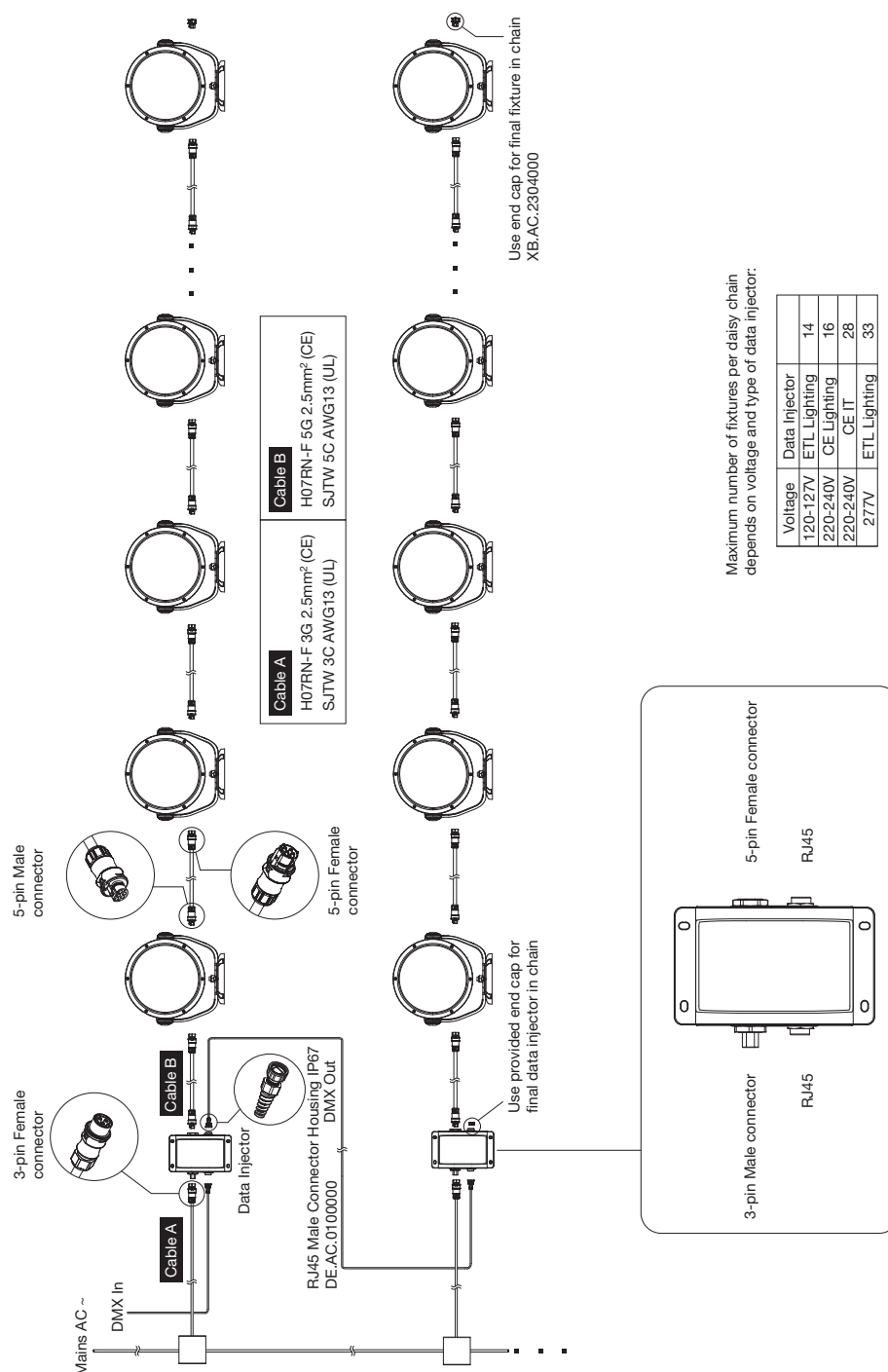
Product Specification

11/16 V1.0

7 of 9

Washer Quattro AC XB RGBW

System Diagram



Maximum number of fixtures per daisy chain depends on voltage and type of data injector:

| Voltage | Data Injector | |
|----------|---------------|----|
| 120-127V | ETL Lighting | 14 |
| 220-240V | CE Lighting | 16 |
| 220-240V | CE IT | 28 |
| 277V | ETL Lighting | 33 |



Washer Quattro AC XB RGBW

[Ordering](#)

Model Number

| | | | | | | | | | | |
|-----------|----------|-----------|----------|--------------------|----------|----------|------------|------------|----------|----------|
| XB | . | W5 | . | 9 | 3 | 1 | N | 1 | 0 | 0 |
| | | | | Ingress Protection | | Color | Beam Angle | Cover Lens | | |
| | | | | 3: IP66 | | 1: RGBW | 1: 13° | 1: Clear | | |
| | | | | | | | 3: 30° | | | |
| | | | | | | | 6: 40° | | | |
| | | | | | | | 8: 60° | | | |

Fixtures

| Model No. | Description | Item Code |
|---------------|-----------------------------------|-------------|
| XB.W5.9311100 | Washer Quattro AC XB4.18 RGBW 13° | AB486980055 |
| XB.W5.9313100 | Washer Quattro AC XB4.18 RGBW 30° | AB487130055 |
| XB.W5.9316100 | Washer Quattro AC XB4.18 RGBW 40° | AB487100055 |
| XB.W5.9318100 | Washer Quattro AC XB4.18 RGBW 60° | AB487080055 |

Accessories

| Model No. | Description | Item Code |
|---------------|--|-------------|
| XB.AC.4000000 | Quattro AC XB Data Injector (ETL Lighting / CE IT) | AB389160055 |
| XB.AC.4000100 | Quattro AC XB Data Injector (CE Lighting) | AB444880055 |
| XB.AC.2302000 | 5-pin Field Installable AC Male Connector IP66 | AA438580235 |
| XB.AC.2303000 | 5-pin Field Installable AC Female Connector IP66 | AA438570235 |
| XB.AC.4006000 | 3-pin Field Installable AC Female Connector IP66 | AB389040035 |
| XE.ID.0204000 | AC XB Interconnection Cable, 5-wire, CE (2m) | AB389130055 |
| XE.ID.0204001 | AC XB Interconnection Cable, 5-wire, UL (6.5ft) | AB389120055 |
| XE.ID.0074000 | AC XB Interconnection Cable, 5-wire, CE (0.7m) | AB389100055 |
| XE.ID.0074001 | AC XB Interconnection Cable, 5-wire, UL (2.33ft) | AB389070055 |
| XE.IF.0104000 | AC XB Power Cable, 3-wire, CE (1m) | AB389060055 |
| XE.IF.0104001 | AC XB Power Cable, 3-wire, UL (3.25ft) | AB389050055 |
| DE.AC.0100000 | RJ45 Male Connector Housing IP67 | AA556100155 |
| XB.AC.2304000 | 5-pin Connector Socket End Cap IP66 | AA508870335 |



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TRUE NORTH PLAN NORTH
1/16" = 1'-0"
0 4 8 16 32
SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

Date: 12/18/17
Job No: 170143-01
Sheet No:

Madison College
Goodman South Campus
801 W Badger Road, Madison, Wisconsin 53713



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LL

LOWER LEVEL PLAN



TRUE NORTH PLAN NORTH
1/16" = 1'-0"
SCALE: 1/16" = 1'-0"

NOT FOR CONSTRUCTION

Date: 12/18/17
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