



URBAN DESIGN COMMISSION APPLICATION CITY OF MADISON

This form may also be completed online at:
<http://www.cityofmadison.com/planning/documents/UDCapplication.pdf>

215 Martin Luther King Jr. Blvd; Room LL-100
PO Box 2985; Madison, Wisconsin 53701-2985
Phone: 608.266.4635 | Facsimile: 608.267.8739

Please complete all sections of the application, including the desired meeting date and the type of action requested.

Date Submitted: <u>October 7, 2015</u>	<input type="checkbox"/> Informational Presentation
UDC Meeting Date: <u>October 21, 2015</u>	<input type="checkbox"/> Initial Approval
Combined Schedule Plan Commission Date (if applicable): _____	<input checked="" type="checkbox"/> Final Approval

1. Project Address: 3528 and 3524 East Washington Blvd, Madison, WI 53704
Project Title (if any): PDQ Food Stores

2. This is an application for (Check all that apply to this UDC application):

New Development Alteration to an Existing or Previously-Approved Development

A. Project Type:

- Project in an Urban Design District* (public hearing-\$300 fee)
- Project in the Downtown Core District (DC) or Urban Mixed-Use District (UMX) (\$150 fee, Minor Exterior Alterations)
- Suburban Employment Center (SEC) or Campus Institutional District (CI) or Employment Campus District (EC)
- Planned Development (PD)
 - General Development Plan (GDP)
 - Specific Implementation Plan (SIP)
- Planned Multi-Use Site or Planned Residential Complex

B. Signage:

- Comprehensive Design Review* (public hearing-\$300 fee) Street Graphics Variance* (public hearing-\$300 fee)
- Signage Exception(s) in an Urban Design District (public hearing-\$300 fee)

C. Other:

Please specify: _____

3. Applicant, Agent & Property Owner Information:

Applicant Name: <u>Tate Walker</u>	Company: <u>OPN Architects</u>
Street Address: <u>301 North Broom St, Suite 100</u>	City/State: <u>Madison, WI</u> Zip: <u>53703</u>
Telephone: <u>(608)819-0844</u> Fax: <u>(608)819-0261</u>	Email: <u>twalker@opnarchitects.com</u>

Project Contact Person: <u>same as applicant above</u>	Company: _____
Street Address: _____	City/State: _____ Zip: _____
Telephone: (____) _____ Fax: (____) _____	Email: _____

Project Owner (if not applicant): <u>PDQ Food Stores, Mike Arnold</u>	City/State: <u>Middleton, WI</u> Zip: <u>53562</u>
Street Address: <u>PO Box 620997</u>	Email: <u>marnold@pdqstores.com</u>
Telephone: <u>(608)828-2102</u> Fax: (____) _____	

4. Applicant Declarations:

A. Prior to submitting this application, the applicant is required to discuss the proposed project with Urban Design Commission staff. This application was discussed with Heather Stouder on April 23, 2015.

(name of staff person) (date of meeting)

B. The applicant attests that all required materials are included in this submittal and understands that if any required information is not provided by the application deadline, the application will not be placed on an Urban Design Commission agenda for consideration.

Name of Applicant <u>Tate Walker</u>	Relationship to Property <u>Architect</u>
Authorized Signature <u>Tate Walker</u>	Date <u>October 7, 2015</u>

PDQ FOOD STORES

3520 EAST WASHINGTON AVE
MADISON, WI 53704

PROJECT NARRATIVE / LETTER OF INTENT

PDQ Food Stores is proposing a new auto service station, detached car wash, and convenience store at 3520 and 3546 East Washington Blvd in Madison, Wisconsin. The parcel's zoning is a Commercial Corridor - Transitional District (CC-T), and borders a Traditional Residential - Varied District 1 (TR-V1). The proposed parcel would remain a CC-T, but will be divided to include a new lot at the northwest end of the property measuring 80' deep and 256' wide and zoned for residential development under TR-C3. The project will consist of demolishing the existing structure on site, and constructing a new auto service station with a 4,000 square foot pump canopy and 1,355 square foot pedestrian canopy, a 2,200 square foot detached car wash, and a 6,005 square foot convenience store. The project is estimated to be substantially complete by January 2016. The hours of operation are 24 hours per day, 7 days per week. See site plan for proposed parking, bike parking and open space calculations. The land is currently valued at \$1.1M. The estimated project cost is \$2.5M. This project is estimated to create 10 full time jobs. There are no public subsidies requested by this project.

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PROJECT TEAM

OWNER
PDQ Food Stores
Contact: Mike Arnold
marnold@pdqstores.com
7601 Discovery Dr
PO Box 620997
Middleton, WI 53562

CONTRACTOR
Supreme Structures
Contact: Dan Bertler
dan@supremestructures.com
2906 Marketplace Drive, Suite A
Madison, WI 53719

ARCHITECT
OPN Architects
Contact: Tate Walker
twalker@opnarchitects.com
301 N Broom St, Suite 100
Madison, WI 53703

CIVIL CONTRACTOR
Homburg Contractors
Contact: Scott Burmeister
SBurmeister@HomburgInc.com
6106 Milwaukee Street
Madison, WI 53718

ELECTRICAL ENGINEER
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Contact: Kevin R. Konkell
kevin@lyons-electric.com
75 Enterprise Road
Delafield, WI 53018

SURVEYOR
Isthmus Surveying LLC
Contact: Paul Spetz
isthmussurveying@sbcglobal.net
450 North Baldwin Street
Madison, WI 53703

LANDSCAPE ARCHITECT
McKay Nursery Co.
Contact: Sandy DeVault, L.A.
sd@mckaynursery.com
750 South Monroe Street
Waterloo, WI 53594

SITE SIGNAGE
LaCrosse Sign Co
Contact: Bill Rupp
Bill.RUpp@LaCrosseSign.com
2242 Mustang Way
Madison, WI 53718



PROJECT LOCATION
NOT TO SCALE



PROPOSED SITE STUDY
NOT TO SCALE



CEDAR RAPIDS • DES MOINES • MADISON

OPN ARCHITECTS, INC.
301 N. BROOM ST., SUITE 100
MADISON, WI 53703
608/819-0260 PHONE
www.opnarchitects.com
opn@opnarchitects.com



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Client
PDQ FOOD STORES
7601 Discovery Drive
Middleton, WI 53562

Architect of Record
OPN ARCHITECTS
301 N. Broom Street, Suite 100
Madison, WI 53703

Contractor
SUPREME STRUCTURES
2906 Marketplace Drive, Suite A
Madison, WI 53719

Project
PDQ FOOD STORES
3528 E WASHINGTON AVE
3524 E WASHINGTON AVE
MADISON, WI 53704



Issue & Revision Dates

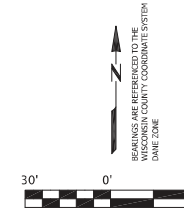
CITY OF MADISON STAFF REVIEW	04.06.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
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UDC MEETING #1	07.15.2015
UDC RESUBMITTAL	08.26.2015
NEIGHBORHOOD REVIEW #3	09.10.2015
UDC MEETING #2	09.16.2015
PLAN COMMISSION	09.21.2015
UDC RESUBMITTAL	10.07.2015
UDC MEETING #3	10.21.2015

Drawing

OPN Project No. 15603000

ALTA/ACSM Land Title Survey: Prime Quarter Madison

LOCATED IN:
Lots Five (5), through Twenty-two (22), Block One (1), Clyde
A. Gallagher Subdivision, in the City of Madison, Dane County, Wisconsin



LEGEND
 ● SOLID IRON ROD FOUND (0.75" Dia, unless noted)
 ○ IRON PIPE FOUND (1" Dia, unless noted)
 ○ 3/4"x18" SOLID IRON ROD SET
 1.50Lbs./LINEAL FOOT.
 () INDICATES RECORDED AS
 DISTANCES ARE MEASURED TO THE
 NEAREST HUNDREDTH OF A FOOT.

Electric Transformer
 Light Pole
 Utility Pole
 Valve: Gas or Water

 Underground AT&T Communications
 Underground Electric
 Sanitary Sewer
 Gas
 Overhead Wires
 Water (Shown as Approximate in places)
 Storm Water Pipe

This Survey Contains
80,389 S.F.
1.84 Acres

PARCEL A:

Lots Five (5), Six (6), Seven (7), Eight (8), Nine (9), Ten (10), Fifteen (15), Sixteen (16), Seventeen (17), Eighteen (18), Nineteen (19), Twenty (20), Twenty-one (21) and Twenty-two (22), Block One (1), Clyde A. Gallagher Subdivision, in the City of Madison, Dane County, Wisconsin, EXCEPT The South 16 1/2 feet thereof.

PARCEL B:

Lots Eleven (11), Twelve (12), Thirteen (13) and Fourteen (14), Block One (1), Clyde A. Gallagher's Subdivision, in the City of Madison, Dane County, Wisconsin, EXCEPT The South 16 1/2 feet therefrom of Lots Eleven (11), Twelve (12) and Thirteen (13).

Schedule B-Exceptions (as detailed in First American Title Insurance Commitment No. NCS-705057-MAD, dated December 5, 2014, at 7:30 a.m.)

11. Resolution recorded February 12, 1969, in Volume 86 of Records, Page 238, as Document No. 1234039, APPLIES AND AFFECTS, SHOWN HEREON.

The Following Exceptions Affect Parcel A:

12. Easement to the Town Sanitary District No. 4 recorded in Volume 257 of Misc., Page 209, as Document No. 852792 granting an easement across the North 10 feet of Lot 10, Block 1, APPLIES AND AFFECTS, SHOWN HEREON.

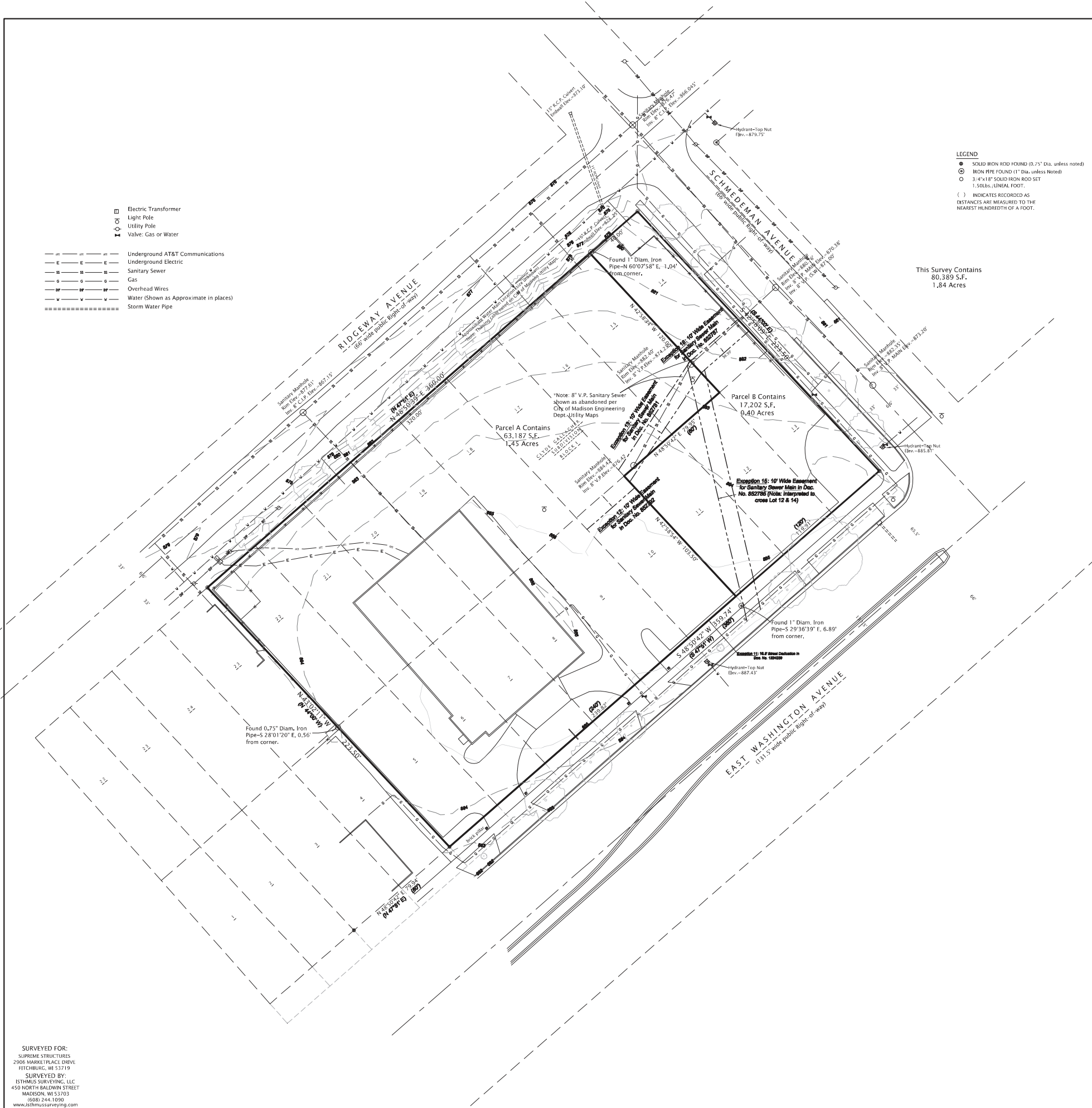
13. Easement to the Town Sanitary District No. 4 recorded in Volume 257 of Misc., Page 198, as Document No. 852781, APPLIES AND AFFECTS, SHOWN HEREON.

14. Mortgage dated October 6, 1995 and recorded October 6, 1995, in Volume 31023 of Records, Page 36 as 2709838, made by Madison Celebration Station, Inc., to M&I Madison Bank, to secure an indebtedness in the amount of \$165,000.00, and the terms and conditions thereof, APPLIES AND AFFECTS, NOT A MAPPING OR SURVEYING MATTER.

The Following Exceptions Affect Parcel B:

15. Easement to the Town Sanitary District No. 4 recorded April 30, 1953, in Volume 257 of Misc., Page 202, as Document No. 852785, APPLIES AND AFFECTS, SHOWN HEREON.

16. Easement to the Town Sanitary District No. 4 recorded April 30, 1953, in Volume 257 of Misc., Page 204, as Document No. 852787, APPLIES AND AFFECTS, SHOWN HEREON.

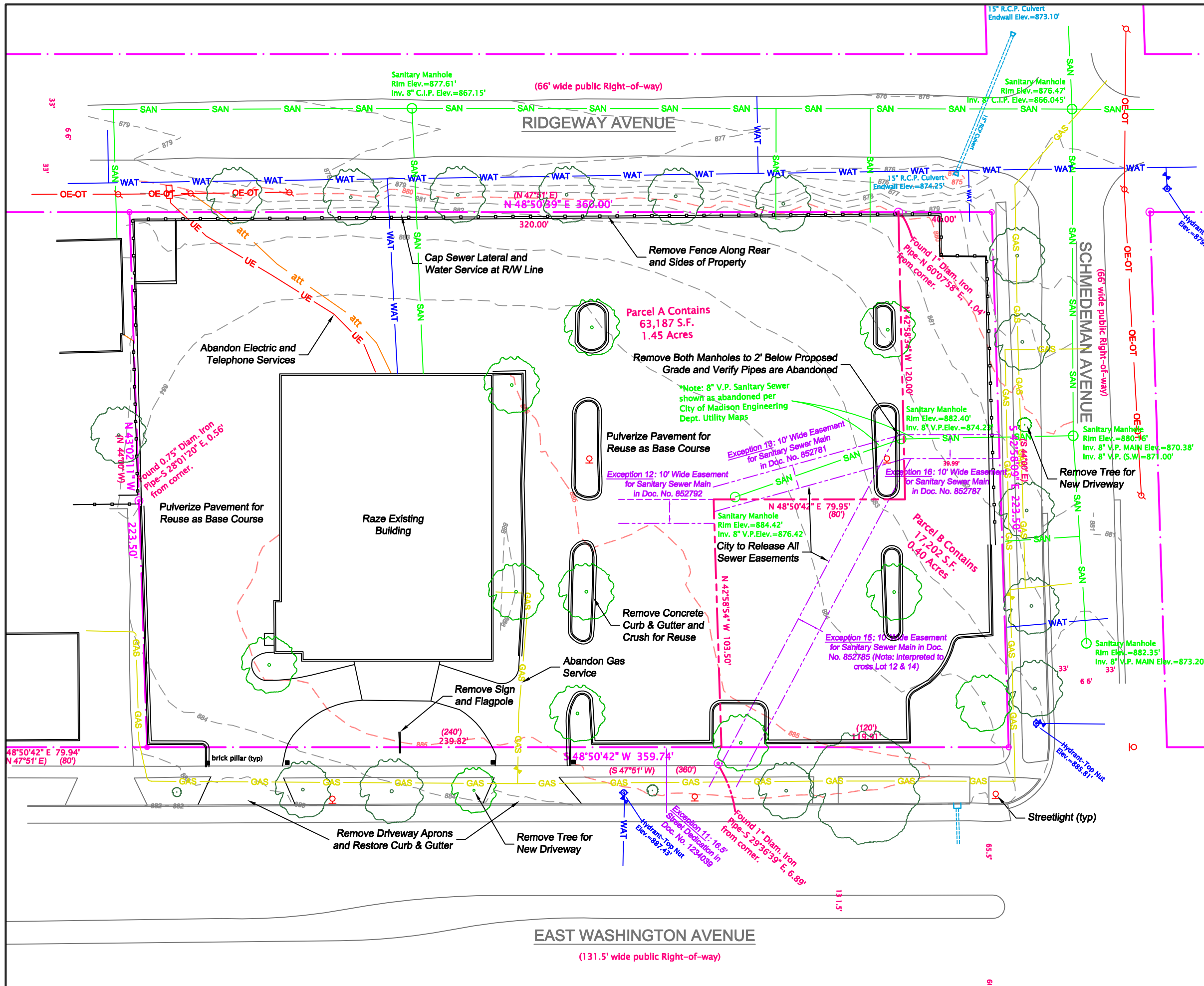


SURVEYED FOR:
 SUPREME STRUCTURES
 2006 MARKETPLACE DRIVE
 FITCHBURG, WI 53719
SURVEYED BY:
 ISTHMUS SURVEYING, LLC
 450 NORTH BALDWIN STREET
 MADISON, WI 53703
 (608) 244-1090
 www.isthmusurveying.com



Issue & Revision Dates

CITY OF MADISON STAFF REVIEW	04.06.2015
CITY OF MADISON DAT PRESENTATION	04.23.2015
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LEGEND

- GAS
- att
- UE
- MAJOR CONTOUR
- MINOR CONTOUR
- EASEMENT
- CMP
- SAN
- WAT
- BOUNDARY
- PARKING LOT STRIPING
- EDGE OF PAVEMENT / CURB
- LIGHT
- POLE
- INLET
- CONIFEROUS TREE
- DECIDUOUS TREE

PROJECT:
PDO
FOOD STORES
 3528 EAST WASHINGTON
 CITY OF MADISON

GENERAL CONTRACTOR:
SUPREME STRUCTURES
 INCORPORATED
 2806 Marketplace Drive
 Madison, WI 53719
 (608) 224-0777
 supremestructures.com

ARCHITECT:
OPN
ARCHITECTS
 301 N Broom Street Ste 100
 Madison, WI 53703
 (608) 819-0260
 opnarchitects.com

STRUCTURAL ENGINEER:
McCOY
ENGINEERING, LLC
 1925 Tarragon Drive, Madison, WI, 53716-2332
 608-467-7438 & email: mccoymengineering@charter.net
 Architectural & Structural • Planning & Design
 Commercial • Industrial • Institutional • Residential

SITE ENGINEER:
HOMBURG
CONTRACTORS, INC.
 5590 Monona Drive
 Monona, WI 53716
 (608) 222-6997
 (608) 244-9113 Fax
 homburginc.com

GREEN TIER
 A DNR program for superior
 environmental performance

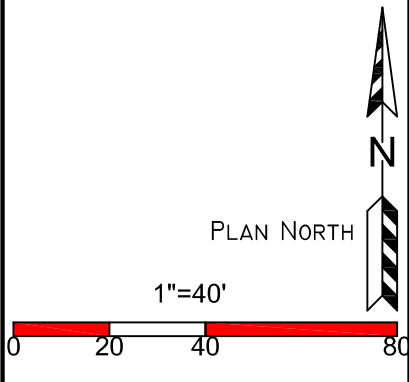
ISSUED
 8/25/15 PLAN COMMISSION RESUBMITTAL
 10/6/15 URBAN DESIGN COMM RESUBMITTAL

REVISED

Drawn By: SS, MK, AD
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EXISTING
 CONDITIONS AND
 DEMOLITION PLAN

C 0.0



PROJECT:



3528 EAST WASHINGTON
CITY OF MADISON

GENERAL CONTRACTOR:



2908 Marketplace Drive
Madison, WI 53719
(608) 224-0772
supremestructures.com

ARCHITECT:



301 N Broom Street Ste 100
Madison, WI 53703
(608) 819-0260
opnarchitects.com

STRUCTURAL ENGINEER:



SITE ENGINEER:



ISSUED
8/25/15 PLAN COMMISSION RESUBMITTAL
10/6/15 URBAN DESIGN COMM RESUBMITTAL

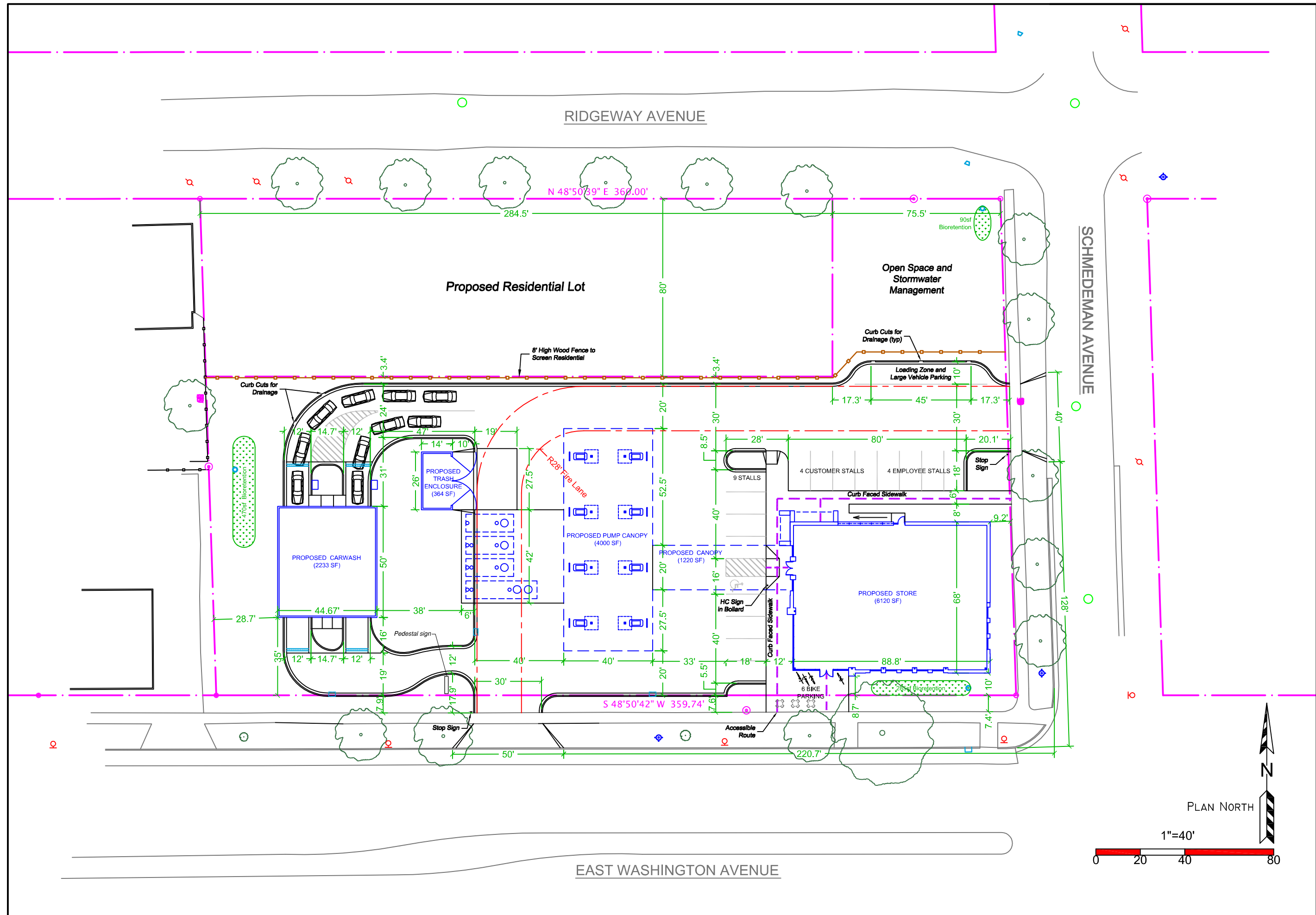
REVISED

DRAWN BY: SS, MK, AD

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SITE PLAN

C 1.0

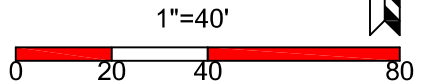


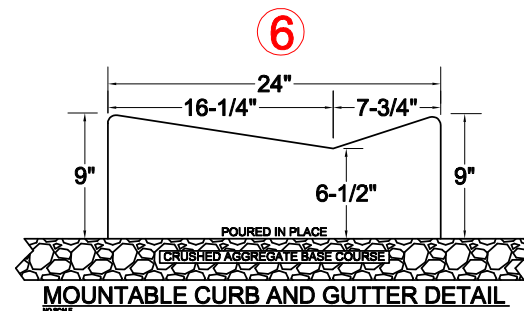
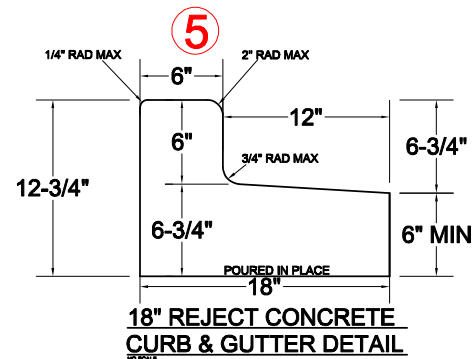
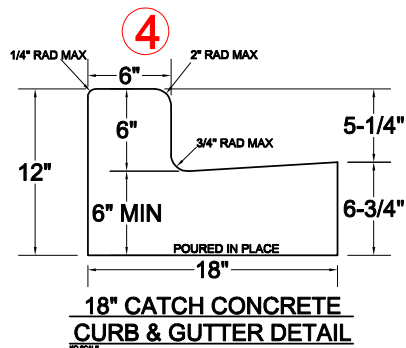
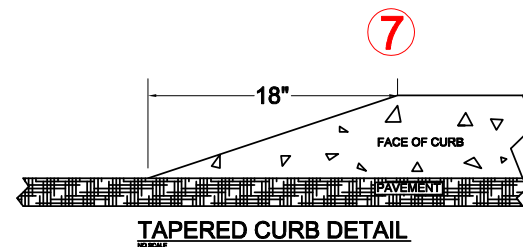
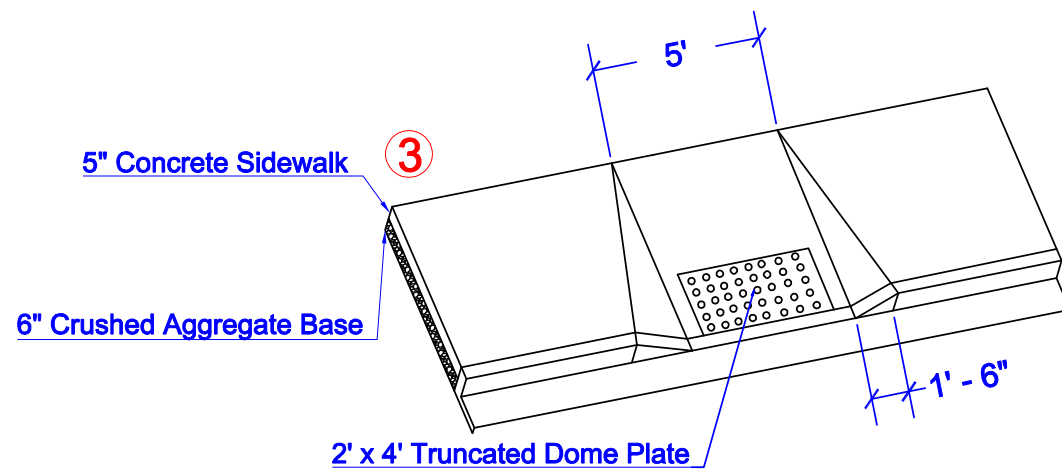
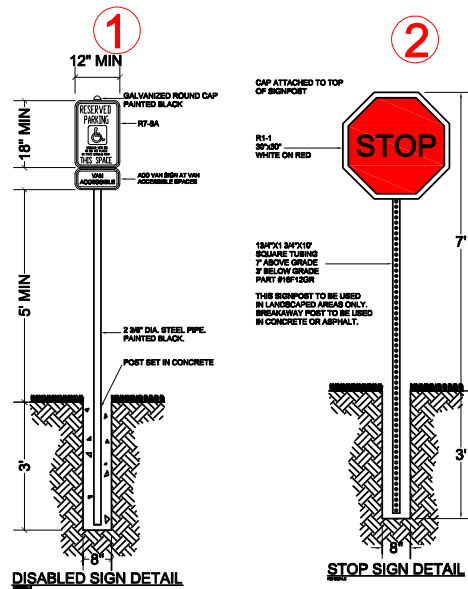
SCHMEDEMAN AVENUE

RIDGEWAY AVENUE

EAST WASHINGTON AVENUE

PLAN NORTH





Parking Lot Plan Site Information Block

Site address: 3520 East Washington Avenue

Site acreage (total): 1.85

Number of building stories (above ground): 1

Building height: _____

DILHR type of construction (new structures or additions): _____

Total square footage of building: 8353

Use of property: Convenience store, car wash, and gas station

Gross square feet of office: 0

Gross square feet of retail: 6120

Number of employees in warehouse: 0

Number of employees in production area: 0

Capacity of restaurant or place of assembly: 0

Number of bicycle stalls shown: 6

Number of parking stalls:

Small car: 0

Large car: 16

Accessible: 1

Total: 17

Number of trees shown: 14

PROJECT:



3520 EAST WASHINGTON
CITY OF MADISON

GENERAL CONTRACTOR:



2908 Marketplace Drive
Madison, WI 53719
(608) 284-0777
supremastructures.com

ARCHITECT:



301 N Brown Street Ste 100
Madison, WI 53708
(608) 818-0280
opnarchitects.com

STRUCTURAL ENGINEER:



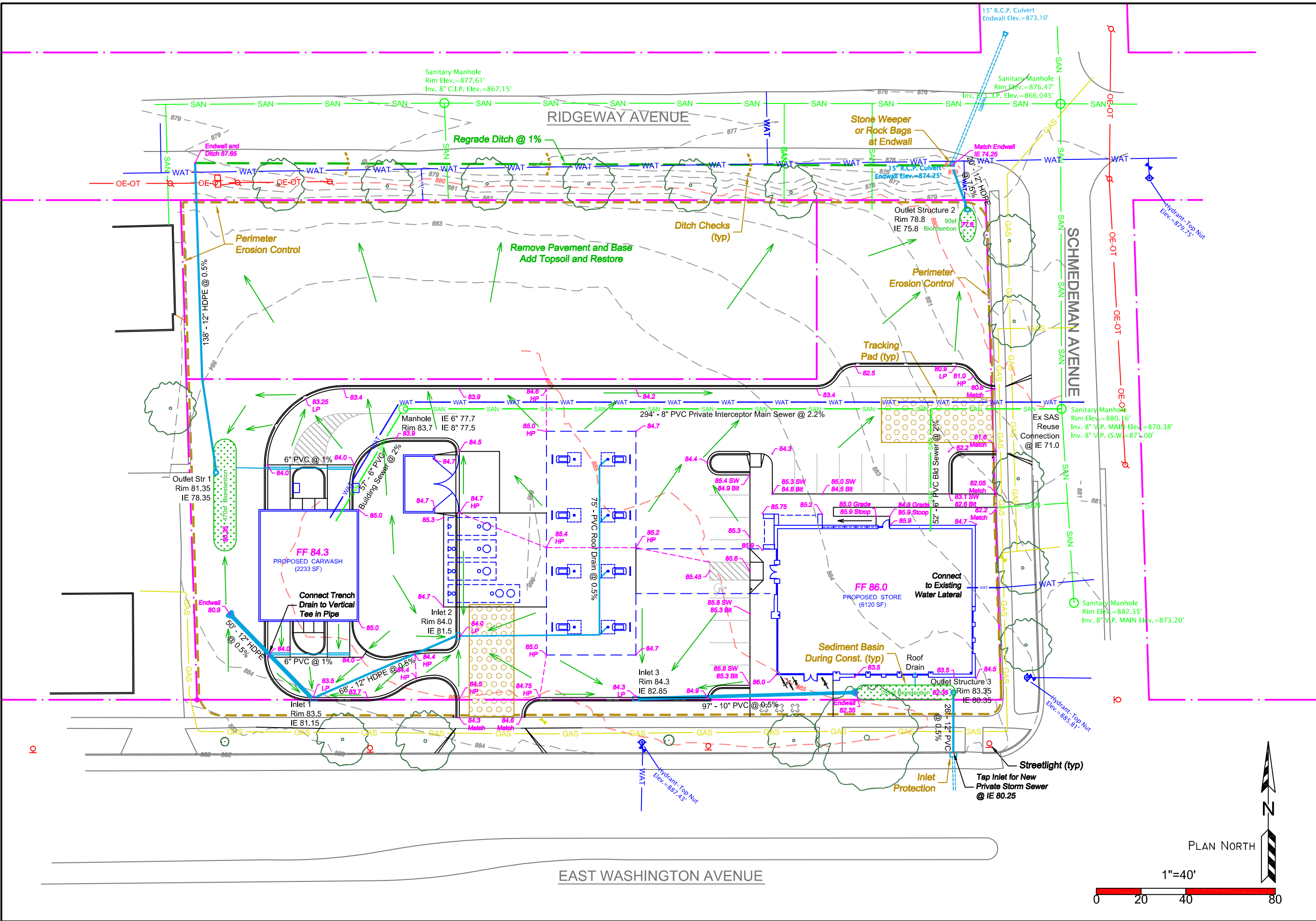
ISSUED:
8/25/15 PLAN COMMISSION RESUBMITTAL

REVISED

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SITE PLAN
DETAILS

C 1.1



PROJECT:
PDO FOOD STORES
 3528 EAST WASHINGTON
 CITY OF MADISON

GENERAL CONTRACTOR:
SUPREME STRUCTURES INCORPORATED
 2906 Marketplace Drive
 Madison, WI 53719
 (608) 224-0777
 supremestructures.com

ARCHITECT:
OPN ARCHITECTS
 301 N Broom Street Ste 100
 Madison, WI 53703
 (608) 819-0260
 opnarchitects.com

STRUCTURAL ENGINEER:
McCOY ENGINEERING, LLC
 1425 Terrace Drive, Madison, WI, 53716-2332
 608-427-1425
 mccoymadison.com
 Architectural & Structural • Planning & Design
 Commercial • Industrial • Institutional • Residential

SITE ENGINEER:
HOMBURG CONTRACTORS, INC.
 5690 Monona Drive
 Monona, WI 53716
 (608) 222-6587
 (608) 244-9113 Fax
 homburginc.com

GREEN TIER
 A DNR program for superior environmental performance

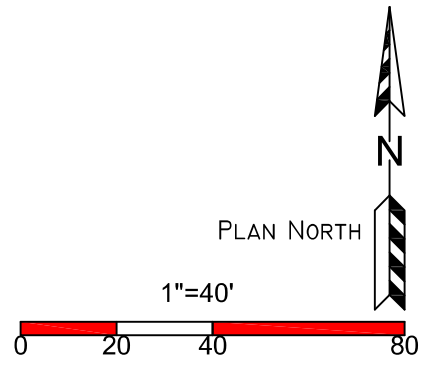
ISSUED:
 8/25/15 PLAN COMMISSION RESUBMITTAL
 10/6/15 URBAN DESIGN COMM RESUBMITTAL

REVISED:

Drawn By: SB, MK, AD
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GRADING, EC AND UTILITY PLAN

C 2.0



Erosion Control Notes/Specifications:

1. Erosion control devices and/or structures shall be installed prior to clearing and grubbing operations. These shall be properly maintained for maximum effectiveness until vegetation is re-established.

2. Erosion control is the responsibility of the contractor until acceptance of this project. Erosion control measures as shown shall be the minimum precautions that will be allowed. The contractor shall be responsible for recognizing and correcting all erosion control problems that are the result of construction activities. Additional erosion control measures, as requested in writing by the state or local inspectors, or the developer's engineer, shall be installed within 24 hours.

3. All erosion control measures and structures serving the site must be inspected at least weekly or within 24 hours of the time 0.5 inches of rain is produced. All maintenance will follow an inspection within 24 hours.

4. Install Type D inlet filters in any street inlet receiving runoff from this site. Refer to WDOT Product Acceptability List at: <http://www.dot.wisconsin.gov/business/engserv/pal.html>

5. Erosion control devices shall adhere to the technical standards found at: <http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm> and comply with all City of Madison ordinances.

6. All debris tracked onto public streets shall be swept or scraped clean by the end of each workday.

7. All disturbed areas shall be seeded immediately after grading activities have been completed.

8. All disturbed areas, except paved areas, shall receive a minimum of four (4) inches of topsoil, fertilizer, seed, and mulch. Seed mixture 40 shall be used on all areas. Mixtures shall be in accordance with section 630 of Wisconsin D.O.T. specifications. Seed mixtures and fertilizer shall be applied at the rate of seven (7) pounds per 1,000 square feet. Mulch shall be applied at the rate of 2 tons per acre and shall be anchored into the soil by discing. Seeding and sodding may only be used from May 1st to September 15th of any year. Temporary seed shall be used after September 15. If temporary seeding is used, a permanent cover shall also be required as part of the final site stabilization.

9. For the first six (6) weeks after the initial stabilization of a disturbed area, watering shall be performed whenever more than seven (7) days of dry weather elapse.

10. Following rough grading, deep tilling will be performed on all graded areas outside of building and street footprints. The operation shall be accomplished using twin straight steel shanks drawn by tracked machinery. Each shank shall be 24 to 36 inches long, positioned over each track.

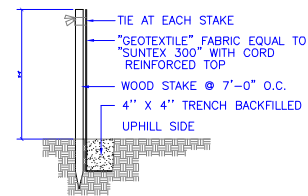
11. All access point to the project site must have a Stone Construction Entrance

12. If rill erosion becomes problematic, the contractor shall apply soil stabilization polymers on all slopes greater than 10% or in problem areas.

Emergency Contact
Mike Hackel
Homburg Contractors, Inc.
5590 Monona Drive
Monona, WI 53716
(608) 241-1178

SILT FENCE INSTALLATION DETAIL

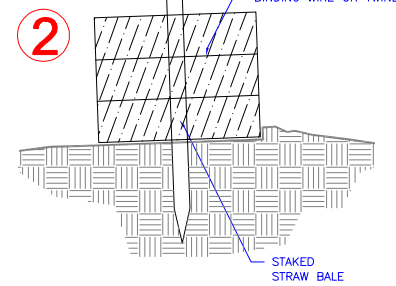
1



INSTALLATION PROCEDURE

- STEP 1: EXCAVATE A 4"x4" TRENCH ALONG PATH OF SILT FENCE.
- STEP 2: STAKE THE SILT FENCE ON DOWNSLOPE SIDE OF TRENCH AND EXTEND 8" OF FABRIC INTO THE TRENCH.
- STEP 3: WHEN JOINTS ARE NECESSARY, OVERLAP ENDS FOR THE DISTANCE BETWEEN THE STAKES.
- STEP 4: BACKFILL AND COMPACT THE EXCAVATED SOIL.

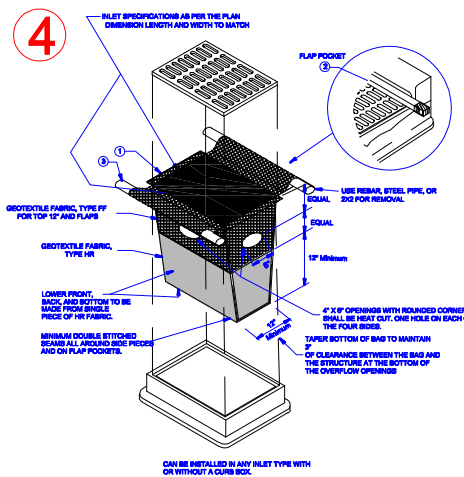
STAKED BALE



INSTALLATION PROCEDURE

- STEP 1: PLACE AND STACK STRAW BALES LENGTHWISE TO FORM WALL.
 - STEP 2: WEDGE LOOSE STRAW BETWEEN BALES.
- NOTE: ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED AS NEEDED.

INLET PROTECTION (TYPE HC)

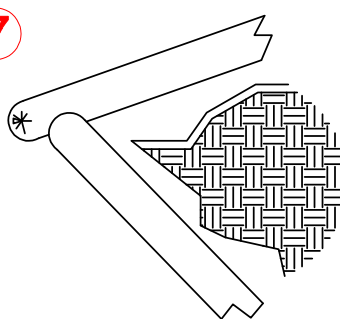


GENERAL NOTES

- 1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY. THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3".
- 2. SIDE FLAPS SHALL BE A MAXIMUM OF 2' LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
- 3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X2. THE 2X2 SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.
- 4. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.

Silt Sock Detail

7

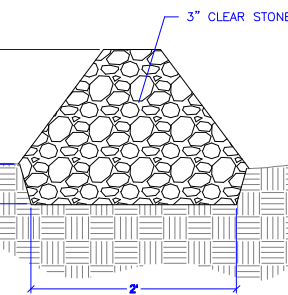


INSTALLATION PROCEDURE

Lay full socks in a single row with a 4" end to end overlap.

CLEAR STONE WEEPER

5

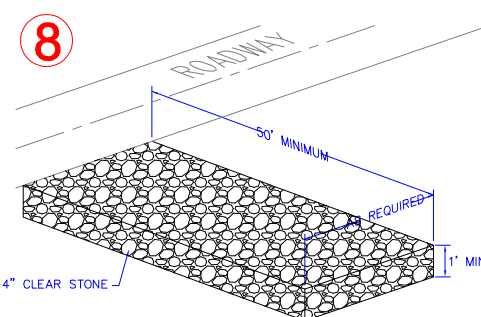


INSTALLATION PROCEDURE

- STEP 1: EXCAVATE A 2' WIDE TRENCH.
- STEP 2: PLACE 3" CLEAR STONE TAPERING FROM A 2' WIDE BOTTOM TO A 6" WIDE TOP.
- STEP 3: TO PROTECT INLETS, REPEAT IN A CIRCLE AROUND THE ENTIRE INLET.
- STEP 4: TO PROTECT DITCHES AND SWALES RUN THE WEEPER PERPENDICULAR TO THE FLOW LINE AND EXTEND TO THE TOP OF THE SIDE SLOPE.

NOTE: ADDITIONAL EROSION CONTROL MEASURES WILL BE INSTALLED AS NEEDED.

CONSTRUCTION ENTRANCE DETAIL

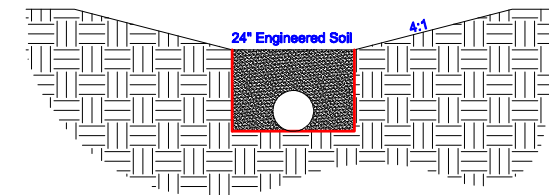


NOTES:

- 1. CLEAN UP ANY MATERIAL TRACKED OFF SITE DAILY.
- 2. REPLACE STONE ENTRANCE WHEN IT BECOMES TOO CLOGGED TO PROVIDE ANY CLEANING BENEFIT.

Bioretention with Liner

3



INSTALLATION PROCEDURE

Engineered Soil Composition:
70 - 85 % Coarse sand

15 - 30 % compost meeting the following requirements:
Sand: USDA coarse sand 0.02 - 0.04 inch diameter prewashed.
Compost: Shall meet the requirements of DNR S100

Soil mixture shall be free of rocks, roots, and debris over 1"

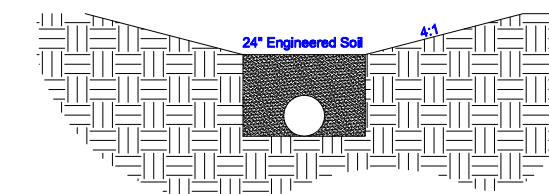
Shall be placed to minimize compaction of mixture and subgrade

Finished basin shall be matted with coconut fabric and planted with native

prairie plugs spaced 12" on center

Bioretention

6



INSTALLATION PROCEDURE

Engineered Soil Composition:
70 - 85 % Coarse sand

15 - 30 % compost meeting the following requirements:
Sand: USDA coarse sand 0.02 - 0.04 inch diameter prewashed.
Compost: Shall meet the requirements of DNR S100

Soil mixture shall be free of rocks, roots, and debris over 1"

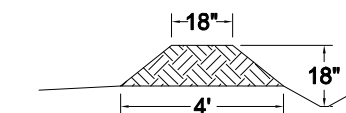
Shall be placed to minimize compaction of mixture and subgrade

Finished basin shall be matted with coconut fabric and planted with native

prairie plugs spaced 12" on center

9

Erosion Berm



INSTALLATION NOTE

Install stone weepers at low points.

PROJECT:



3520 EAST WASHINGTON
CITY OF MADISON

GENERAL CONTRACTOR:



2808 Marketplace Drive
Madison, WI 53718
(608) 284-0777
supremestructures.com

ARCHITECT:



301 N Bacon Street Ste 100
Madison, WI 53703
(608) 619-0280
opnarchitects.com

STRUCTURAL ENGINEER:



1925 Terrace Drive, Madison, WI 53746-2332
608-467-7400 E-mail: mccoymccoyengineering.com

SITE ENGINEER:



5890 Monona Drive
Monona, WI 53716
(608) 252-8897
(608) 244-9113 Fax
homburginc.com



ISSUED

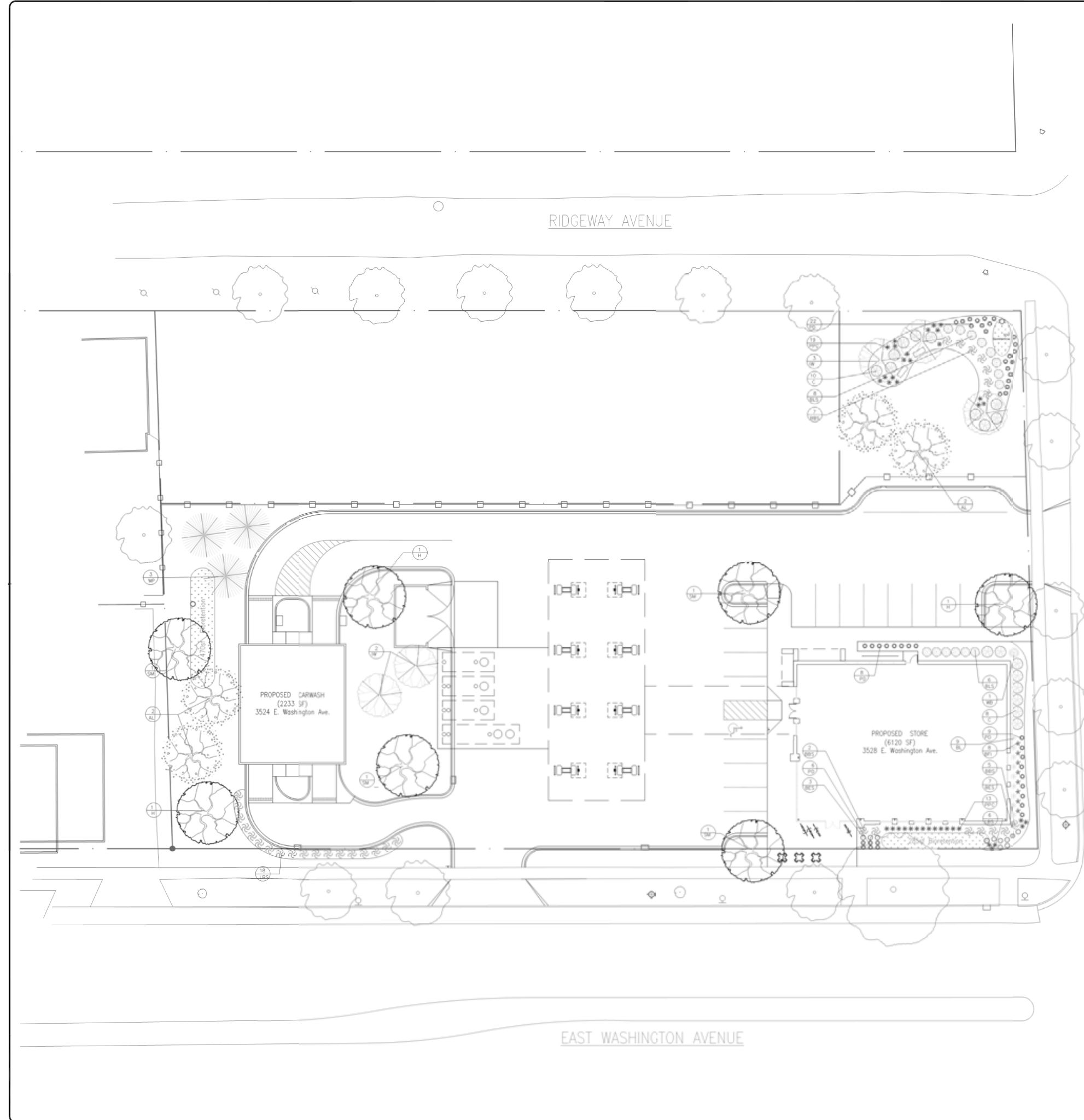
8/25/15 PLAN COMMISSION RESUBMITTAL

REVISED

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**GRADING & EC
DETAILS**

C 2.1



PLANTING SCHEDULE

Symbol	Plant Name	Root	Quantity	Points	Total	
Shade and Ornamental Trees						
SM	Sugar Maple	2.5" DB	4	35	140	
AM	American Linden	2.5" DB	4	35	140	
HT	Honeylocust	2.5" DB	5	35	175	
Deciduous Shrubs						
SL	Shrub Leaf Spruce	#1 CO	14	3	42	
WB	Winterberry	12" DB	1	2	2	
C	Chokeberry	#1 CO	18	3	54	
Evergreens						
WP	White Pine	5" DB	3	35	105	
Perennials						
FR	French Daylily	#1 CO	23	2	46	
US	Ulm	#1 CO	24	1	24	
ES	Evening Primrose	#1 CO	10	2	20	
DR	Dark Red Lychnis	#1 CO	11	1	11	
MR	Marigold	#1 CO	9	2	18	
BT	Butterfly Bush	#1 CO	8	2	16	
2 Benches					2	12
DEVELOPED AREA: 55,952 SQFT						
NEW LANDSCAPING POINTS NEEDED: 684					POINTS ACHIEVED: 804	

PLAN NOTES:

- ALL TOPSOIL TO BE IN PLACE TO WITHIN 1" OF FINAL GRADE BEFORE DECORATIVE LANDSCAPING STARTS.
- BED BORDERS TO BE INSTALLED WITH DIMEX PRO EDGING EXCEPT WITHIN CONCRETE BORDERS.
- 3" BARK MULCH / PINEEN IN ALL BEDS NEAR BUILDING AND P LOT.
- ALL SINGLE OUTER TREES TO RECEIVE 3-4 FT DIAM. SHREDED BARK MULCH RING.
- ALL SINGLE OUTER EVERGREEN TREES TO RECEIVE 3-4 FT DIAM. SHREDED BARK RING.
- GRASS AREAS SHALL BE FINE GRADED, SEEDED (W/ APPROVED SEED) AT A RATE OF 4#/1000SQFT, FERTILIZED WITH 10-10-10 AND MULCHED WITH CHIPPED STRAW.
- PLANT MATERIAL PROVIDED BY QUALIFIED NURSERY AND INSTALLED BY QUALIFIED AND EXPERIENCED INSTALLER.
- PLANTS TO BE WATERED DAILY BY INSTALLER UNTIL COMPLETION.
- WATERING IS THE OWNER'S RESPONSIBILITY.
- DECORATIVE BOLDERS AS SHOWN.
- MAINTENANCE/CARE PACKET TO BE PROVIDED BY CONTRACTOR FOR OWNER UPON COMPLETION.
- NURSERY STOCK GUARANTEED FOR 1 YEAR. ALL SUBJECT TO AVAILABILITY.
- 2 PARK BENCHES BY OTHERS.
- BIORETENTION AREAS SHALL BE IN PLACE BEFORE DECORATIVE LANDSCAPING STARTS.
- PLUGS TO BE PLANTED 1 FT O.C. BEDS TO BE MULCHED WITH 2" SHREDS AGED 1/2" MOIST SHREDED BARK MULCH.
- PLANTING TO COMMENCE IN THE SPRING WHEN PLUGS ARE AVAILABLE.

PLANT LIST:

PLANT LIST:	MATURE HT	
AQUILEGIA CANADENSIS	COLUMBINE	1'-3FT
ARCEUTHABAX TIBETANA	BUTTERFLY-BUSH	1'-3FT
ASTER AZULIS	ASTER	1'-2'
CHLOEAE OLIGARIA	SUNFLOWER	1'-2'
COENOCHEILA PURPUREA	PURPLE CONEFLOWER	2'-3FT
CLYPTORHIZON	JOE PEE WEED	2'-2'
IRIS MORGANAE	BLUIS FLAG IRIS	1'-3FT
LINUM SPICATUM	SLIMING STAR	1'-3FT
PHLOX POLIOSTACHYA	PEARLE PHLOX	1'-3FT
RHIBISCOPUS SYRIACA	BLACK EYED SUSAN	2'-3FT

16000 FT² PER BED- 160 PLANTS PER BED (13 BEDS)
 BIORETENTION CARE BY BODDER: PULL NEEDS IN JUNE, ONCE IN JULY, ONCE IN AUGUST
 OWNER TO WATER 2X/1/90
 CUT ALL PLANTS BACK IN OCTOBER

EXHIBIT B

Maintenance Provision:

Owner shall install a Rain Garden/Bio-Retention System in accordance with plans approved by City Engineer. Bio-Retention for infiltration shall also be installed in accordance with WQA's Construction Practice Standard #1004. Owner shall maintain records of installation, inspections, cleaning and any other maintenance all in accordance with Chapter 37 of the Madison General Ordinances. Visual inspection of the Rain Garden/Bio-Retention System shall be performed, at a minimum, annually. Maintenance shall be required when system shows standing water beyond 72 hours of rain event. Cleaning shall consist of removal of sediment, two (2) feet and/or, unsorted replacement with material consisting of 30% compost and 70% sand and retention in-kind. Removal of plant material shall be by digging, not weeding above. Any alterations to approved Rain Garden/Bio-Retention System shall be approved by City Engineer. Owner shall maintain records of inspections, cleaning and replacement of the Rain Garden all in accordance with Chapter 37 of the Madison General Ordinances.

MCKAY NURSERY COMPANY
 An independent representative for Mckay Nursery Company
 PO Box 185
 750 S. Monroe Street
 Waterloo, WI 53594
 www.mckaynursery.com
 (T) 800.478.2121
 (T) 800.236.4242
 (F) 520.478.3615

S DEVAULT
 An independent representative for Mckay Nursery Company
 (T) 800.478.2121
 (F) 520.478.3615
 SDEV@MCKAYNURSERY.COM

PDQ EAST WASHINGTON AVE
 MADISON, WI DANE CO.

Drawing Title
Landscape Plan

This drawing remains the property of the undersigned, and no use of it shall be made without their consent. The undersigned and McKay Nursery Company assume no responsibility for accuracy, zoning compliance, structural integrity and all details and dimensions.

To obtain location of particular underground facilities before you dig, CALL YOUR LOCAL UTILITY.

Drawn by
S DEVAULT
 Project Number
 79-15
 Date
 5/21/15
 Client
 SUPSTROPLAN, 20 sq 24x36
 Sheet
 1 of 1
 Sheet Number
L1



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Client
PDQ FOOD STORES
7601 Discovery Drive
Madison, WI 53562

Architect of Record
OPN ARCHITECTS
301 N. Broom Street, Suite 100
Madison, WI 53703

Contractor
SUPREME STRUCTURES
2506 Marketplace Drive, Suite A
Madison, WI 53719

Project
PDQ FOOD STORES
3524 E WASHINGTON AVE
3524 E WASHINGTON AVE
MADISON, WI 53704

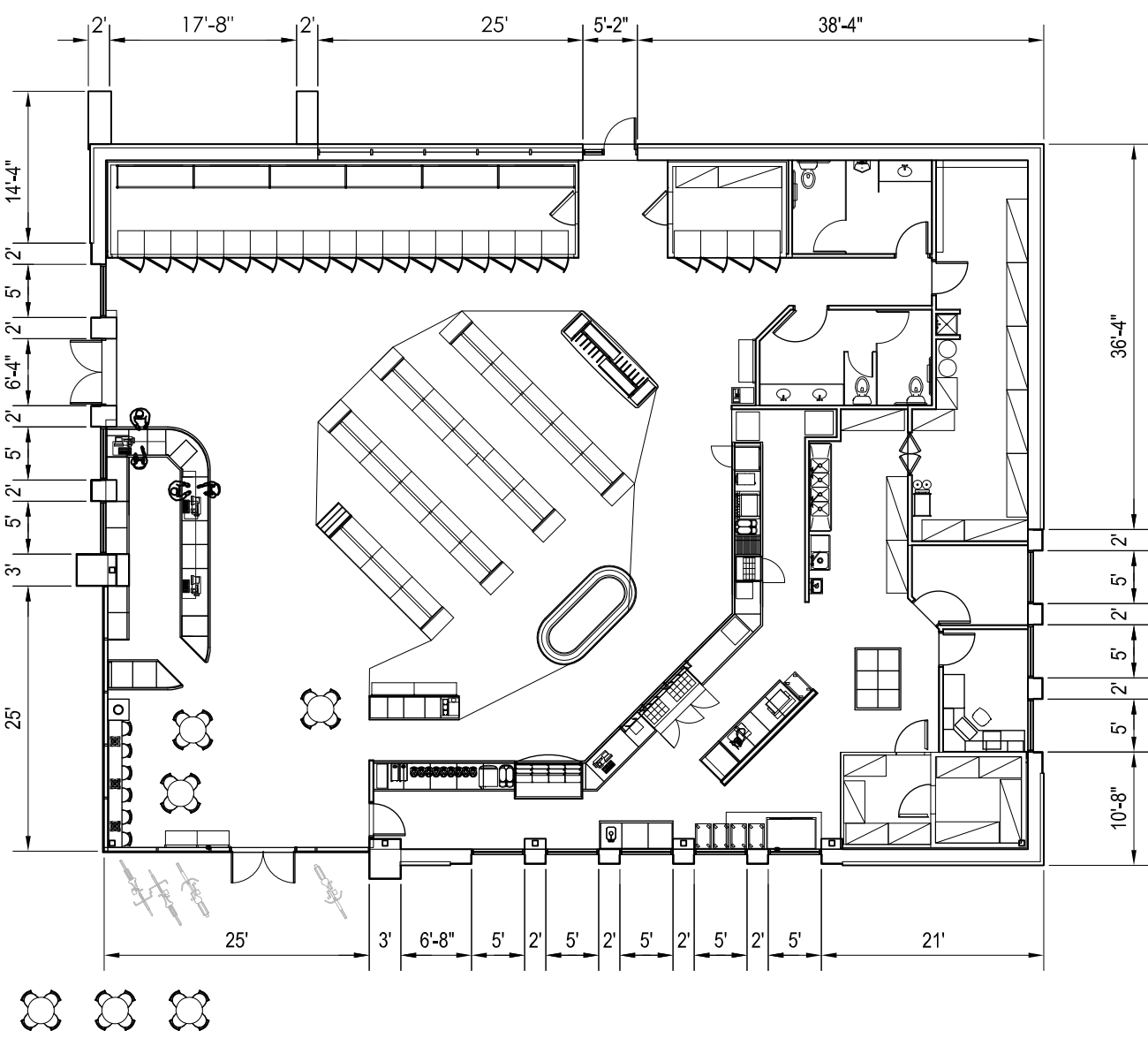


Issue & Revision Dates

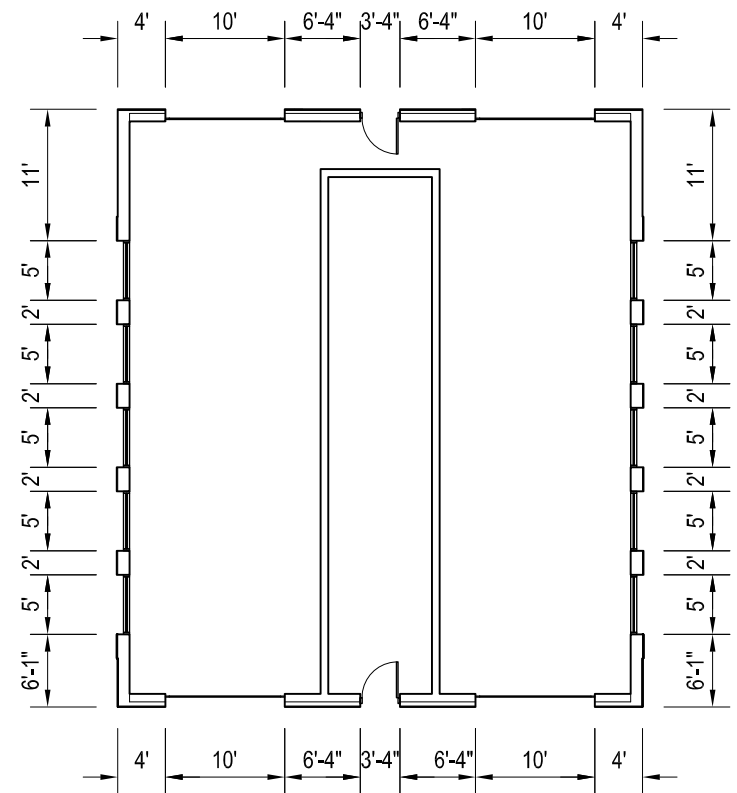
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CITY OF MADISON DAT PRESENTATION	04.23.2015
NEIGHBORHOOD REVIEW	05.18.2015
UDC INFORMATIONAL PRESENTATION	05.20.2015
UDC SUBMITTAL NEIGHBORHOOD REVIEW #1	05.27.2015
UDC SUBMITTAL NEIGHBORHOOD REVIEW #2	06.24.2015
UDC MEETING #1	07.15.2015
UDC RESUBMITTAL NEIGHBORHOOD REVIEW #3	08.26.2015
UDC MEETING #2	09.16.2015
PLAN COMMISSION	09.21.2015
UDC RESUBMITTAL	10.07.2015
UDC MEETING #3	10.21.2015

Drawing
FIRST FLOOR PLAN

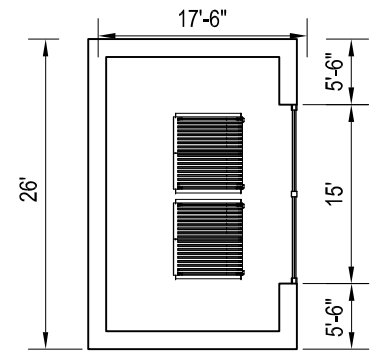
OPN Project No. 15603000



1 CONVENIENCE STORE FLOOR PLAN
1/8" = 1'-0"

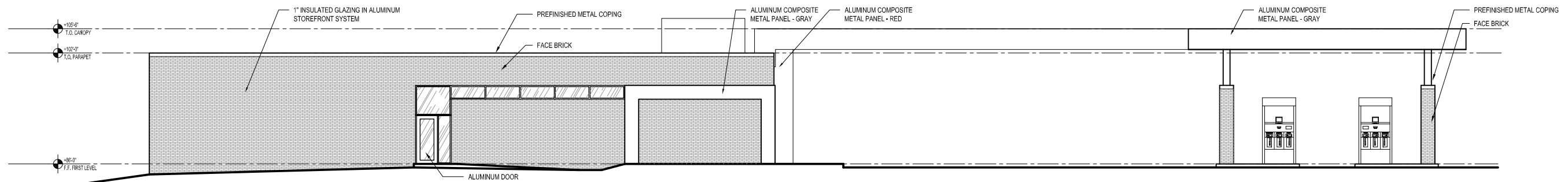


2 CAR WASH FLOOR PLAN
1/8" = 1'-0"

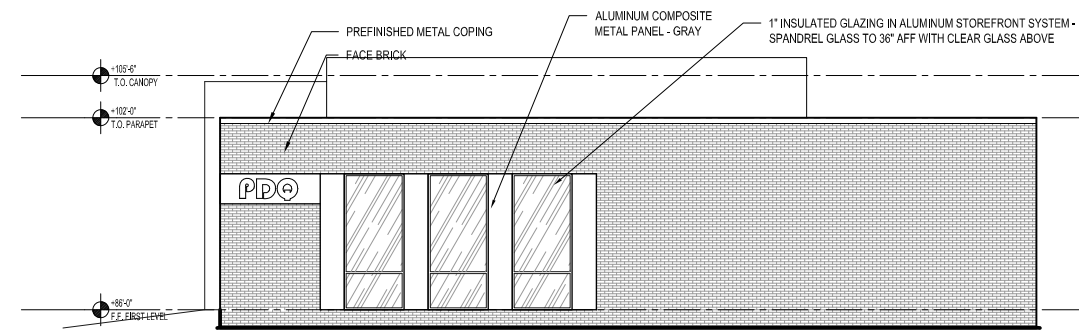


Issue & Revision Dates

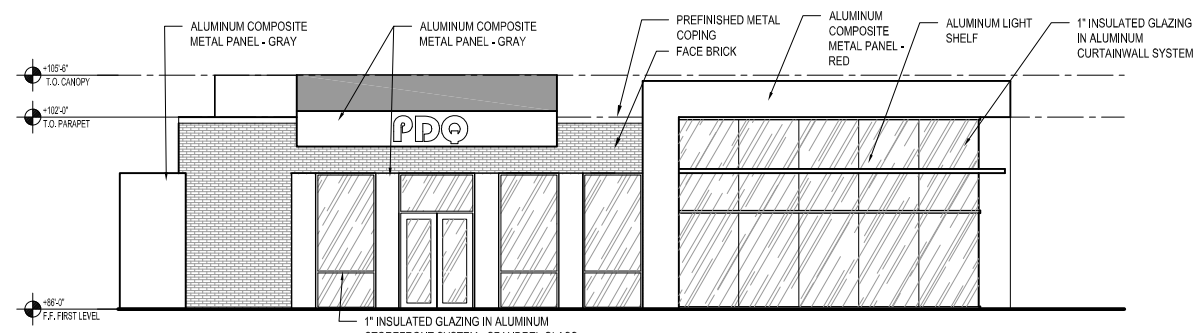
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UDC MEETING #2	08.26.2015
UDC RESUBMITTAL NEIGHBORHOOD REVIEW #4	09.16.2015
UDC MEETING #3	09.21.2015
UDC RESUBMITTAL	09.21.2015
UDC MEETING #4	10.07.2015
UDC RESUBMITTAL	10.21.2015



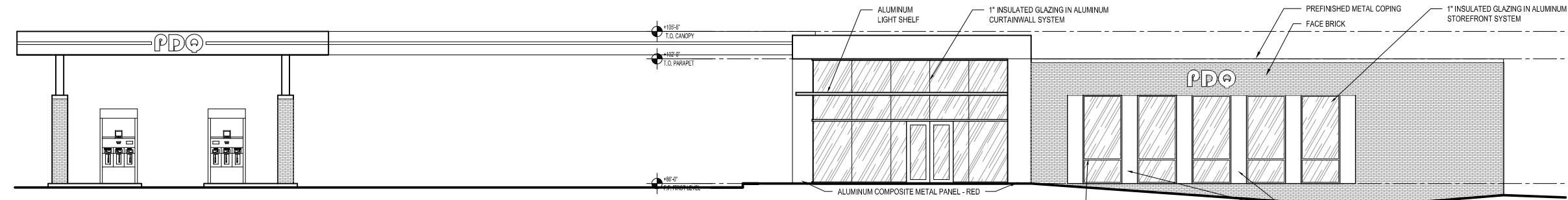
1 NORTH ELEVATION - RIDGEWAY AVE
1/8" = 1'-0"



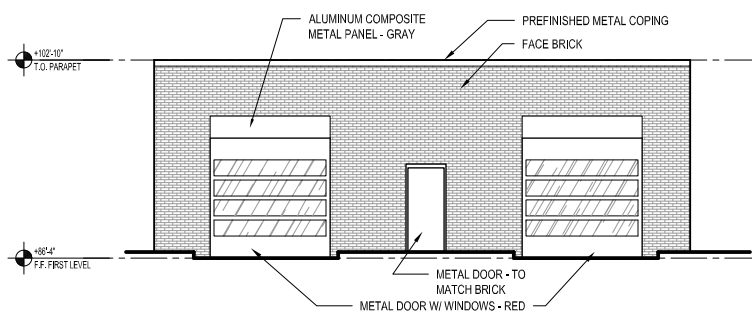
2 EAST ELEVATION - SCHMEDEMAN AVE
1/8" = 1'-0"



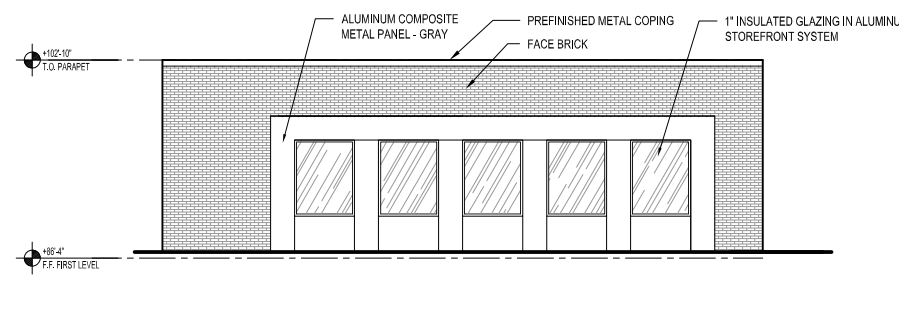
3 WEST ELEVATION
1/8" = 1'-0"



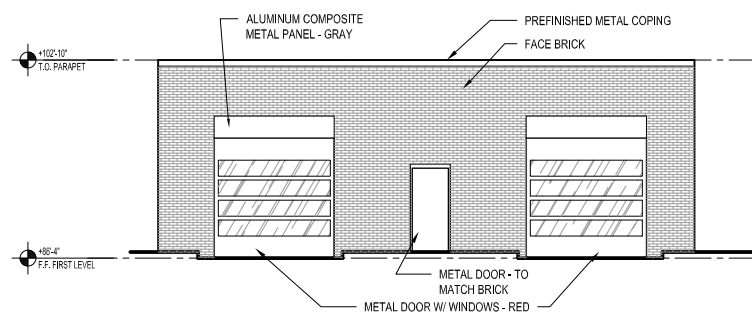
4 SOUTH ELEVATION - EAST WASHINGTON AVE
1/8" = 1'-0"



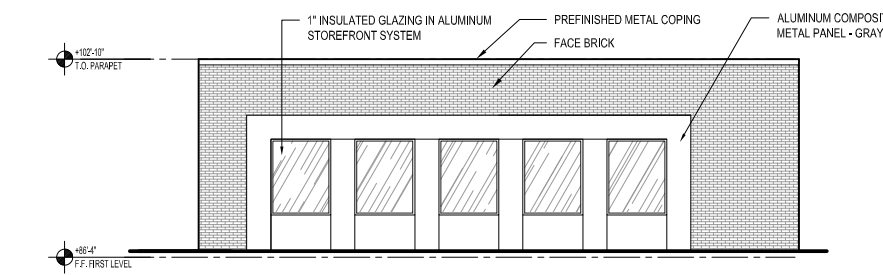
5 CAR WASH - NORTH ELEVATION
1/8" = 1'-0"



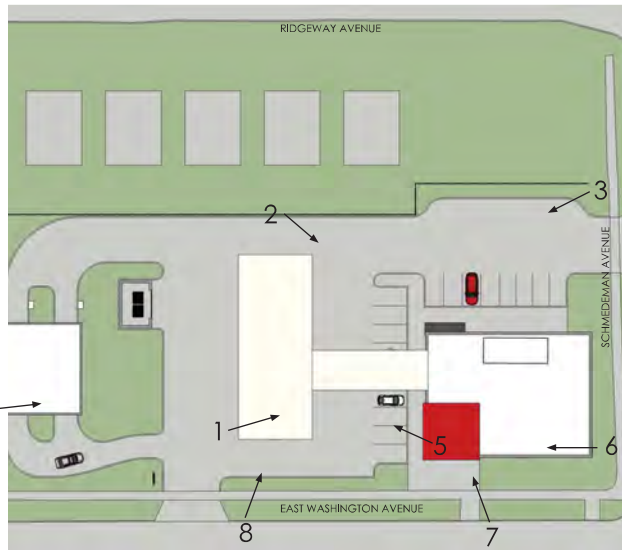
6 CAR WASH - EAST ELEVATION
1/8" = 1'-0"



7 CAR WASH - SOUTH ELEVATION
1/8" = 1'-0"



8 CAR WASH - WEST ELEVATION
1/8" = 1'-0"

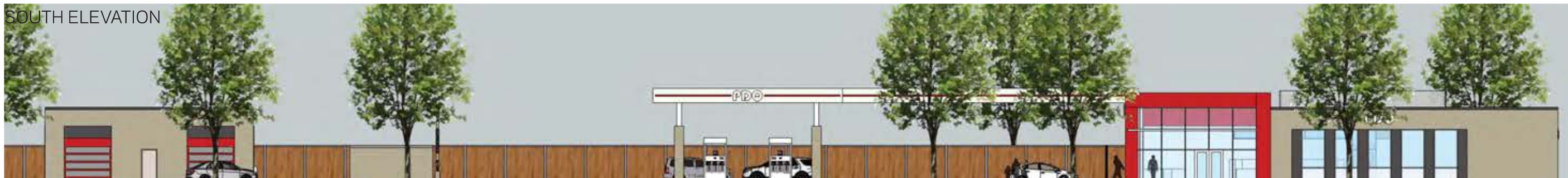


Issue & Revision Dates

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PLAN COMMISSION	09.21.2015
UDC RESUBMITTAL	10.07.2015
UDC MEETING #3	10.21.2015

Drawing

SOUTH ELEVATION



EAST ELEVATION



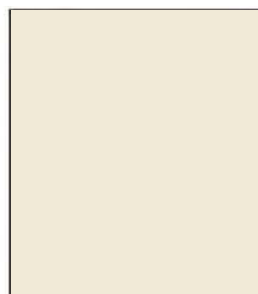
NORTH ELEVATION



WEST ELEVATION



MATERIAL: BR-1
COLOR: GRAYSTONE VELOUR
MANUFACTURER: GENERAL SHALE BRICK



MATERIAL: MT-1
COLOR: BEIGE
MANUFACTURER: ALPOLIC



MATERIAL: MT-2
COLOR: BBR RED (3MM4BBRB)
MANUFACTURER: ALPOLIC



MATERIAL: MT-3
COLOR: CNC CHARCOAL
(3MM4CNC8)
MANUFACTURER: ALPOLIC



MATERIAL: PT-1
TYPE: DTM ACRYLIC PRIMER/
FINISH
COLOR: WHITE (B66W1)
MANUFACTURER: SHERWIN-
WILLIAMS



MATERIAL: WD-1
COLOR: CEDAR NATURALTONE
(ON CEDAR)
MANUFACTURER: OLYMPIC



MATERIAL: GL-1
TYPE: 1/4" (12.7MM) SLB60 AN ST,
1/2" AIR SPACE, 1/4" CLEAR
MANUFACTURER: OLDCASTLE
BUILDING ENVELOPE (OR EQUAL)

Client

PDQ FOOD STORES
7601 Discovery Drive
Madison, WI 53702

Architect of Record

OPN ARCHITECTS
301 N. Broom Street, Suite 100
Madison, WI 53703

Contractor

SUPREME STRUCTURES
2506 Markelose Drive, Suite A
Madison, WI 53719

Project

PDQ FOOD STORES
3528 E WASHINGTON AVE
3524 E WASHINGTON AVE
MADISON, WI 53704



Issue & Revision Dates

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UDC MEETING #3	09.21.2015
UDC RESUBMITTAL	10.07.2015
UDC MEETING #4	10.21.2015

Drawing

SUBMITTAL
DRAWING
10-05-15



SMALL BUSINESS, THE ONLY COMPANY OF ITS KIND IN THE AREA. WE ARE A FULLY LICENSED AND INSURED ELECTRICAL CONTRACTOR. WE ARE A MEMBER OF THE NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) AND THE INTERNATIONAL BROTHERHOOD OF ELECTRICAL CONTRACTORS (IBEW). WE ARE A MEMBER OF THE NATIONAL ASSOCIATION OF ELECTRICAL CONTRACTORS (NAEC).

Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:
Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:
Mark Bealhen
Main: (262)-646-6828
Fax: (262)-646-6829

PROJECT NAME:
**PDQ - SITE
PHOTOMETRICS**
3520 East Washington Avenue
Madison, WI

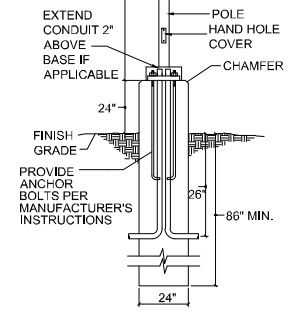
SHEET TITLE:
**Photometric Study
Site Plan**
DRAWN BY: KRK
DATE DRAWN: 10-5-2015
APPROVED BY: KRK
Sheet Of
1 12

SHEET:
ES100

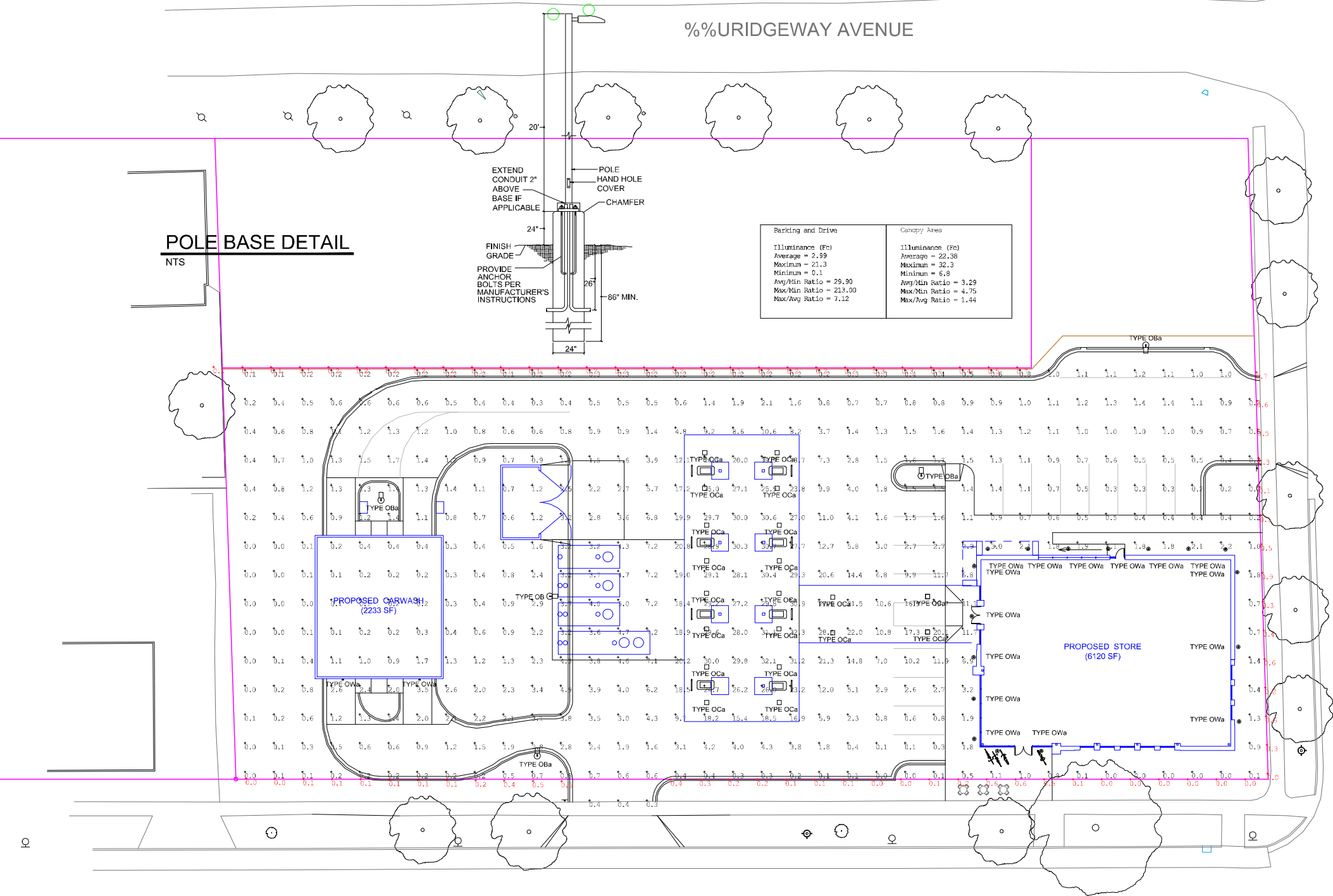
%%URIDGEWAY AVENUE

%%USCHMEDEMAN AVENUE

POLE BASE DETAIL
NTS



Parking and Drive	Canopy Area
Illuminance (Fc)	Illuminance (Fc)
Average = 2.99	Average = 22.38
Maximum = 32.3	Maximum = 32.3
Minimum = 0.1	Minimum = 6.8
Avg/Min Ratio = 29.90	Avg/Min Ratio = 3.29
Max/Min Ratio = 213.00	Max/Min Ratio = 4.75
Max/Avg Ratio = 7.12	Max/Avg Ratio = 1.44



SITE PHOTOMETRIC STUDY
NTS



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SUBMITTAL
DRAWING
8-25-15

LYONS ELECTRIC
Since 1979

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HALO LED ICAT HOUSING for NEW CONSTRUCTION

The H750ICAT is a dedicated LED new construction housing to be used with designated HALO LED modules. The H750ICAT is designed for insulated ceilings and can be in direct contact with ceiling insulation*. This AIR-TITE housing design prevents airflow between conditioned and unconditioned spaces and saves on both heating and air conditioning costs. The LED connector system provides high efficacy code compliance when used with designated HALO LED modules and trims.

Category #	H750ICAT	Type
Project	PDQ Washington Avenue	OA
Comments	ML706830 & 492PS06	Date
Prepared by	KRK	8-25-15

DESIGN FEATURES

Housings

Aluminum construction for greater heat dissipation. H750 ICAT housing is gasketed to prevent airflow from heated or air conditioned spaces.

Plaster Frame

Galvanized steel frame. Housing adjusts in plaster frame to accommodate up to 1" ceiling thickness. Regressed locking screw for securing hanger bars. Cutouts included for easily crimping hanger bars in position.

Slide-N-Side™ Junction Box

- Positioned to accommodate straight conduit runs.
- Seven 1/2" trade size conduit knockouts with true pry-out slots.
- Slide-N-Side wire traps allow non metallic sheathed cable to be installed without tools and without removing knockouts.
- Allows wiring connections to be made outside the box.
- Simply insert the cable directly into the trap after connections are made.
- Accommodates the following standard non-metallic sheathed cable type:
 - U.S. #14/2, #14/3, #12/2, #12/3
 - Canada: #14/2, #14/3, #12/2

GOT NAIL! Pass-N-Thru™ Bar Hangers

Bar Hanger features include:

- Pre-installed nail easily installs in regular lumber, engineered lumber and laminated beams.
- Safety and Guidance system prevents snagging, ensures smooth, straight nail penetration and allows bar hangers to be easily removed if necessary.
- Automatic leveling flange aligns the housing and allows holding the housing in place with one hand while driving nails.
- Score lines allow tool-free shortening for 12" joists and bar hangers do not need to be removed for shortening.
- Bar hangers may be repositioned 90° on plaster frame.
- Integral T-bar clip snaps onto T-bars - no additional clips are required.

LED Module Connection

Halo LED modules simply install with a plug-in 120V-277V rated line voltage wiring connector (UL and CSA Listed Luminaire Disconnect). This non-screw-base connection preserves the high efficacy rating and prevents use of low efficacy incandescent sources (see LED Module specifications).

Caution

Connection is rated for 120V and 277V input. Installer must verify LED module voltage is compatible with the applicable voltage input. If uncertain, consult a qualified electrician.

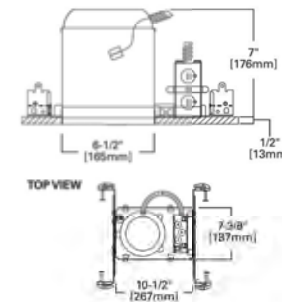
Labels

- UL/cUL Listed 1598 Luminaire
- CE Marking - "Conformité Européenne" conformity with the Council of European Communities Directives, meeting internationally recognized compliance when used with ML56 Series LED modules
- UL/cUL Listed for Feed Through
- UL/cUL Listed for Damp Location
- UL/cUL Listed for Wet Location with select trims
- UL/cUL Listed for direct contact with insulation and combustible material*
- Rated for 20W maximum

Qualification

May be used with qualified Halo LED modules and designated trims for High Efficacy Luminaire Compliance:

- State of California Title 24
- International Energy Conservation Code (IECC)
- Washington State Energy Code
- New York State Energy Conservation Construction Code - AIR-TITE™ Compliant
- Certified under ASTM-E283 standard for air-tight construction



Cooper Lighting
by E.T.N.

* Not to be used in direct contact with spray foam insulation.

HALO™



H750ICAT

6" New Construction IC AIR-TITE™ Housing For Halo LED Modules and Trims
- ML56 Series
- RA56 Series

High Efficacy LED Housing

FOR USE IN INSULATED CEILINGS
FOR DIRECT CONTACT WITH INSULATION*



Qualified and compliant with select trims. Refer to ENERGY STAR® Qualified Products List and CEC (T24) Appliance Database for listings.

ADV141509
6/17/2014

Description

The Halo LED ML7068xx modules are designed for retrofit applications with an Edison screw base adapter (included with the module) for use in existing housings OR may also be used in new construction with the LED dedicated housing Series H750xx. Halo LED 600 Series offers selection of four color temperatures: 2700K, 3000K, 3500K, 4000K. Halo LED offers a superior optical design that yields productive beam lumens, good cutoff and low glare.

Specification Features

Exceeds the light output and distribution of a 65W BR30 incandescent lamp or an 18W compact fluorescent luminaire (lamp and reflector trim), while consuming less than 14 watts.

Dimming

The ML7068xx series is designed for dimming capability to 15% in normal operation with standard 120V LED-Rated, electronic low voltage, and many incandescent dimmers. The LED module may also dim to 5% using dimmers with low end trim adjustment. (Consult dimmer manufacturer for application/compatibility. Note, some dimmers require a neutral in the wallbox).

Quality of Light

Halo 600 Series provides excellent color rendering (80 CRI), and a selection of four color temperatures (2700K, 3000K, 3500K and 4000K). CRI and color temperature performance conform to parameters established by ENERGY STAR® SSL standards (refer to ANSI-C78.377 - 2008 for CCT specifications). LED's have virtually no ultraviolet and minimal infrared wavelengths, and they do not emit heat like conventional lamps.

Optical Design

Optical design yields productive beam lumens, 50° cutoff, and low glare.

Life

Rated for 50,000 hours at 70% lumen maintenance.

Compatibility

The Halo ML7068xx LED modules are designed for use in the dedicated H750xx series housings OR for retrofit applications in existing Halo or ALL-PRO™ H7/ET7/E17 housings. The Halo LED module is designed for use in either IC (insulated ceiling) or non-IC construction.

Compatible HALO and ALL-PRO housings include model numbers:

- Dedicated LED Housing: H750xx Series
- Halo Housings: H7x Series
- ALL-PRO Housings: ET7x and E17x Series

Screw Base Adapter

Edison screw-base adapter supplied with module allows simple wiring connection to existing housing.

Module Construction

Durable die-cast and extruded aluminum construction conducts heat away from the LED keeping the junction temperatures below specified maximums even when installed in insulated ceiling environments.

Air-Tite™ Rating

The Halo LED module has passed restricted air flow testing, and now qualifies any housing to meet airtight building codes. Certified under ASTM-E283 standards.

LED Driver

The LED module is controlled by a high efficiency driver with a power factor of >.90 at an input power of 120V, 50/60Hz. Driver has integral thermal protection in the event of over temperature or internal failure.

Warranty

Cooper Lighting provides a three year limited warranty on the Halo LED Luminaire which includes the LED Module, LED Recessed Housing and LED trims.

Category #	ML706830	Type
Project	PDA Washington Avenue	OA
Comments	H750ICAT & 492PS06	Date
Prepared by	KRK	8-25-15

HALO™



ML7068xx

6" LED module and trim
For new construction OR retrofit applications

600 Series LED dimmable module

2700°K, 3000°K, 3500°K, 4000°K correlated color temperature

494WB06 Halo LED series trim

For use in non-insulated ceilings

*IC housings not in spray foam insulation.



600 Series Energy Data:	
(Values at non-dimming line voltage)	
Minimum Starting Temp: -30°C (-22°F)	
EMC/RFI: FCC Title 47 CFR, Part 18, Class B (Consumer)	
Sound Rating: Class A standards	
Input Voltage:	120V
Power Factor:	>0.90
Input Frequency:	50/60Hz
THD:	<20%
Input Power:	13.8W
Input Current:	126mA
Maximum IC (Insulated Ceiling) Ambient Continuous Operating Temperature: 25°C (77°F)	
Maximum Max-IC Ambient Continuous Operating Temperature: 40°C (104°F)	

TD518014EN
June 22, 2015

E.T.N.
Powering Business Worldwide



Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:
Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:
Mark Bealhen
Main: (262)-646-6828
Fax: (262)-646-6829

PROJECT NAME:
PDQ - SITE PHOTOMETRICS
3520 East Washington Avenue
Madison, WI

SHEET TITLE:	
Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
2	12

SHEET:
ES101

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DRAWING
8-25-15

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Revisions		
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PROJECT NAME:

PDQ - SITE
PHOTOMETRICS

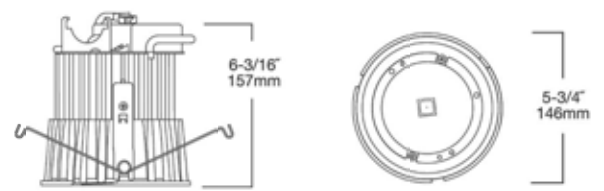
3520 East Washington Avenue
Madison, WI

SHEET TITLE:	
Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
3	12
SHEET:	
ES102	

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ML7068xx

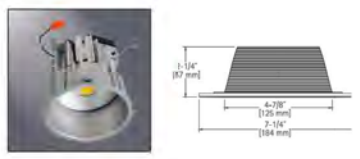
Dimensions



494WB06 White baffle with white trim ring

- Halo matte white finish die-cast trim ring
- Halo Matte White die-cast baffle
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for Air-Tite™ seal

Accessory:
494OPTIC - over optic lens



494WB06 White Baffle with White Trim Ring

494OPTIC Lens Over-Optic for Open LED Trims

Optional accessory - diffusing lens drops into top of open 494 Series LED trims. Precision formed lens media provides diffusion of LED source brightness.

Compatible with: 494WB06



494OPTIC Lens Over-Optic for Open LED Trims

ML7RAB Retrofit Adapter Band for Housings without Torsion Spring Receivers

In many retrofit installations the existing (6" nominal aperture) housings have Torsion Spring Receivers that are used to install trims. Many of these housings will allow direct installation of the LED Module. In some existing installations housings do not have torsion spring receivers. The ML7RAB was designed for installation into those housings. The ML7RAB kit can retrofit four non-torsion spring housings; the kit includes:

- 4 - Retrofit Adapter Bands (1 per retrofit housing)
- 16 - Locking Screws (4 per adapter)
- 8 - Retrofit Locking Wire Nuts (2 per adapter)



ML7RAB Retrofit Adapter Band (Four Adapters per Box)

Oversize Rings

For use when ceiling opening is irregular or cut too large. The oversize ring is installed behind the Halo LED trim ring to mask irregularities or cut errors of the ceiling opening.

- OT400P = Oversize White Metal Trim Ring 6" ID x 9-1/4" OD
- OT403P = Oversize White Plastic Trim Ring 6" ID x 8" OD

Oversize LED Trim Ring

For use when ceiling opening is irregular or cut too large.

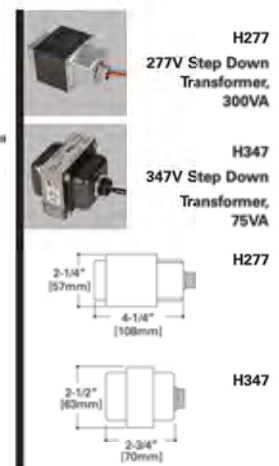
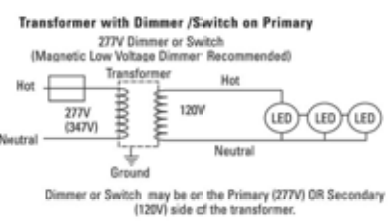
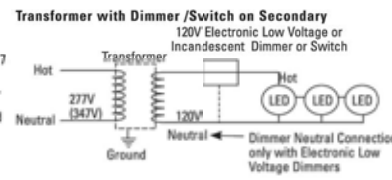
- OT490WH = LED Oversize White Die-Cast Aluminum Trim Ring 5-1/8" ID x 9-1/4" OD - attaches to LED module, substitute for standard LED trim ring.



OT400, OT403, OT490WH Oversize Trim Rings

Application Note - H277 and H347 step-down transformers are qualified to drive multiple Halo LED modules on a single circuit in Non-IC construction. Installation of these transformers on individual fixtures on circuits with multiple LED loads is not recommended. H277 is 300VA and qualified to drive up to 15 Halo LED ML706xx modules. H347 is 75VA and qualified to drive up to 3 Halo LED ML706xx modules. Installation of individual H277 or H347 transformers on each LED downlight fixture in a multiple LED loaded circuit is not recommended due to resulting multiple inductive currents pulled by each transformer; in this situation the majority of the power would then be reactive (VARS) and not real (WATTS). If H277 or H347 transformers should be used individually on each LED fixture in a single circuit, then that circuit should be sized for lowered power factor as well as increased apparent power on the circuit. H277 and H347 are UL/cUL listed for use with Halo housings: H750T, H750TCP, H7T, H7TNB, H7RT, H750TD010, H750RTD010, H750TCPD010 housings.

Step Down Transformers
H277-Steps 277 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 300VA rated (15 modules max.). H277 is a BL recognized Component listed under the luminaire UL/cUL listing for Non-IC housings and LED Module.
H347-Steps 347 line voltage down to 120 volts. Attaches to knockout on first fixture's junction box in a circuit and is 75VA rated (3 modules max.). H347 is a CSA/UL Listed Component for use under the luminaire UL/cUL listing with Non-IC housings and a LED Module.



Transformer Load - H277 (300VA)

1. H277 transformer at full loading consumes a maximum of 16W of power
2. When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 6.5W and in "ON" mode at 16W maximum with full loading.
3. When a dimmer or switch is on the primary (277V) side of the transformer, power is consumed only in "ON" mode to a maximum of 16W under full loading.

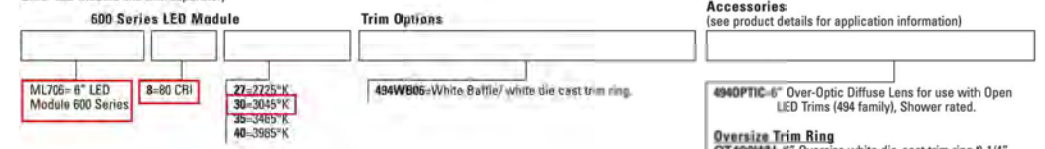
Transformer Load - H347 (75VA)

1. H347 transformer at full loading consumes a maximum of 15W of power
2. When dimmer or switch is on the secondary (120V) side of the transformer, power is consumed by the transformer when the dimmer or switch is in "OFF" mode at 2.5W and in "ON" mode at 15W maximum with full loading.
3. When a dimmer or switch is on the primary (347V) side of the transformer, power is consumed only in "ON" mode to a maximum of 15W under full loading.

Protected / Non-insulated Soffits, Porches, and Canopies
 Halo LED modules when used with Non-IC recessed housings in Non-insulated protected soffits, porches or canopies offers a solution for outdoor accent lighting. Halo LED is rated for operation from -30°C to 40°C when used with H7T, H7TNB, H7RT, ET700, ET700R, H750T, H750TCP, H750TD010, H750RTD010, H750TCPD010 Series non-IC housings.

Ordering Information

Sample number: ML706827 494WB06
 Order LED Module and trim separately



Accessories (see product details for application information)

- 494OPTIC-6" Over-Optic Diffuse Lens for use with Open LED Trims (494 family), Shower rated.
- Oversize Trim Ring**
 OT490WH-6" Oversize white die-cast trim ring 9-1/4" O.D. Attaches to LED module, substitute for standard trim ring shipped with trims.
 OT400P-Oversize White Metal Trim Ring 6" ID x 9-1/4" OD
 OT403P-Oversize White Plastic Trim Ring 6" ID x 8" OD
- Transformer**
 H277-300VA Transformer - Steps 277 line voltage down to 120V (see App. Note)
 H347-75VA Transformer - Steps 347 line voltage down to 120V (see App. Note)
- Retrofit**
 ML7RAB-Retrofit Adapter Band for Housings without Torsion Spring Receivers. The ML7RAB kit supplies parts to retrofit four housings; the kit includes: 4 - Retrofit Adapter Bands with screws and locking wire nuts.

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 June 22, 2015

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DESCRIPTION: LED Trims

Multiple reflector and baffle options allow the Halo LED recessed luminaire to be used anywhere in the home. Choose the best reflector finish and trim for the interior space. Aesthetically pleasing recessed shower trim is available for applications requiring wet location listings.

HALO®

494P06 White Reflector with White Trim Ring

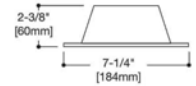
- Halo matte white finish
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



494P06
White Reflector
with White Trim Ring

494SC06 Specular Reflector with White Trim Ring

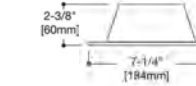
- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



494SC06
Specular Reflector
with White Trim Ring

494H06 Haze Reflector with White Trim Ring

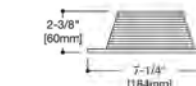
- Halo matte white finish trim ring
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



494H06
Haze Reflector
with White Trim Ring

494WB06 White Baffle with White Trim Ring

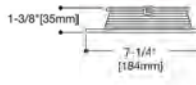
- Halo matte white finish
- Die-cast trim ring and aluminum reflector
- Trim ring height of .160" at OD and .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



494WB06
White Baffle
with White Trim Ring

492PS06 White Lensed Shower Trim with White Trim Ring

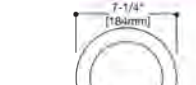
- White trim ring and baffle, regressed lens
- Wet location listed for use in showers and protected canopy applications
- Suggested for use:
 - over tubs and showers
 - eaves and soffits
- Aluminum baffle and die-cast trim ring
- Frosted glass regressed lens
- Trim Height of .160" at OD & .180" at ID
- Provides clearance for remodeler flange and gasket for AIR-TITE™ seal



492PS06
Lensed White Shower Trim
White Trim Ring

TRM490WH Thin Profile Trim Ring (Optional Accessory)

- Die-cast trim ring
- Thin trim ring provides a more subtle ceiling appearance.
- Purchase as accessory and discard ring supplied with trim
- Trim ring height of .120" at OD and .180" at ID



TRM490WH
Optional Accessory
Thin Profile Trim Ring

COOPER LIGHTING

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Streetworks

Catalog #	GAN-AE-03-LED-U-T3-BZ	Type	OB
Project	PDQ Washington Avenue	Date	8-25-15
Comments	157 Watt Single Head Pole	Prepared by	KRK

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the -IA (High Ambient) option. Light Squares are IP66 rated. 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 536mA and 700mA drive currents.

Optics
Patented, high-efficiency injection-molded AccuLED Opticstechnology. Optics are precisely designed to shape the distribution maximizing efficiency and application spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting

two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder-coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

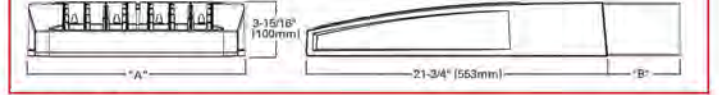
Warranty
Five-year warranty.



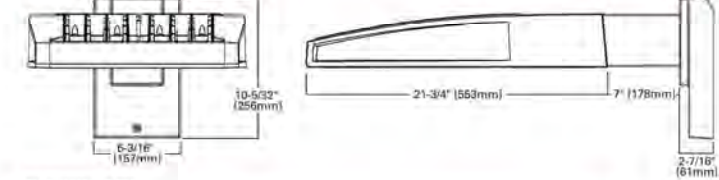
GAN GALLEON LED
1-10 Light Squares
Solid State LED
AREA / ROADWAY LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length 1	Weight with Arm (lbs.)	EPA with Arm 1 (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.98
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	18" (457mm)	54 (24.5 kgs.)	1.07
9-10	33-3/4" (857mm)	7" (178mm)	18" (457mm)	63 (28.0 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.



*www.designlight.com



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



TD500019EN
2015-06-04 13:59:45

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:

Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:

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Fax: (262)-646-6829

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Photometric Site Plan
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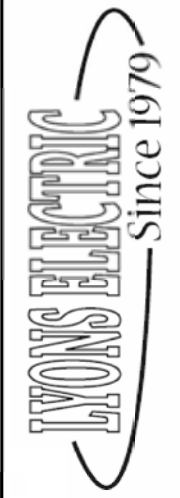
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Sheet 4 Of 12

SHEET: ES103

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8-25-15



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GAN GALLEON LED

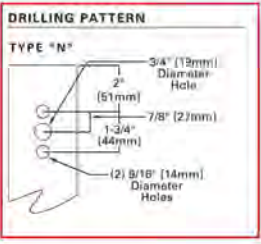
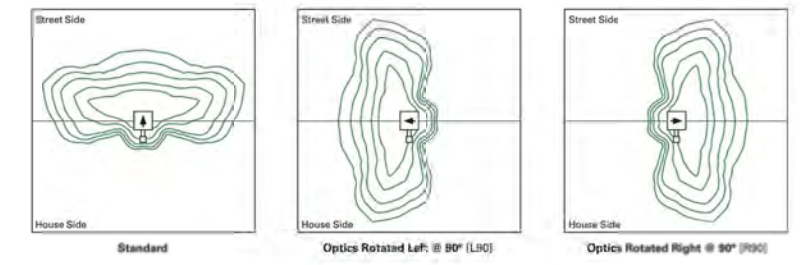
NOMINAL POWER AND LUMENS (1A)											
Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528	
Input Current @ 120V (A)	0.47	0.90	1.3*	1.79	2.21	2.64	3.09	3.51	3.96	4.41	
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50	
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20	
Input Current @ 277V (A)	0.23	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00	
Optics											
T2	Lumens	5,272	10,303	15,373	20,313	25,188	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,221	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,699	20,704	25,852	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,493	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,790	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,506	20,555	25,466	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,697	20,701	25,849	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,896	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SNQ	Lumens	5,542	10,830	16,130	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
SMQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
SWQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SL/SLR	Lumens	4,722	9,227	13,737	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

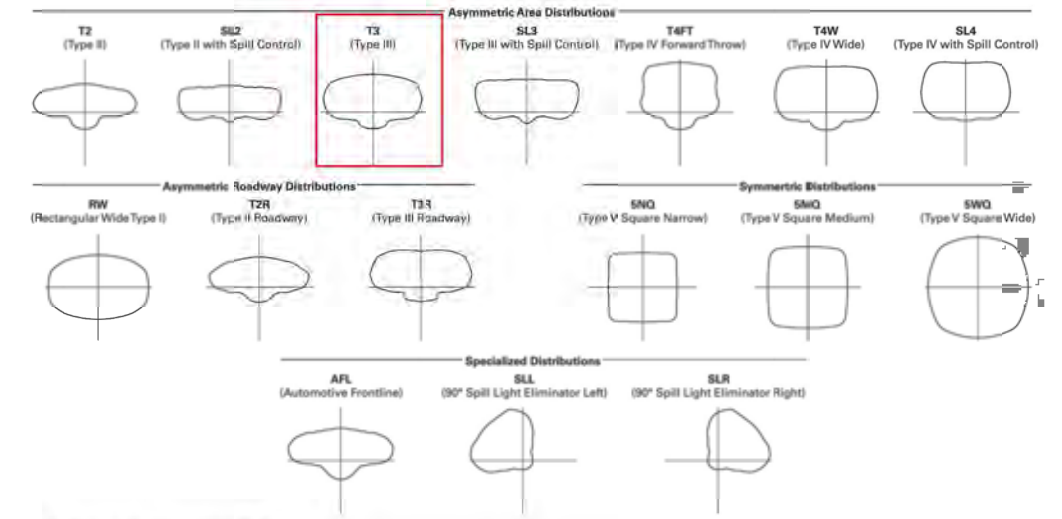
LUMEN MULTIPLIER	
Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

LUMEN MAINTENANCE		
Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

OPTIC ORIENTATION

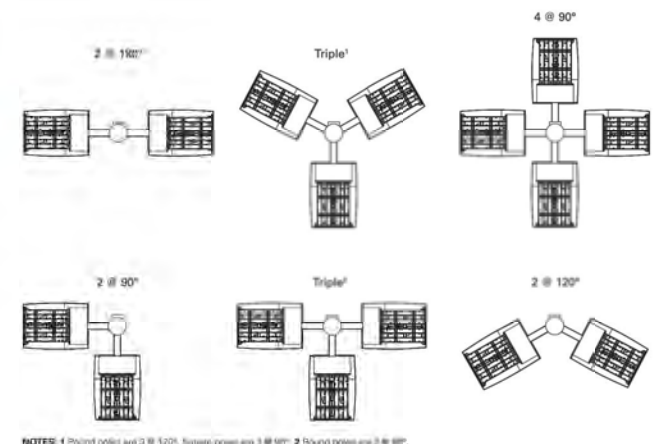


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GAN-AE-01	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-02	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-03	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-04	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GAN-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GAN-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GAN-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GAN-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)



EATON
Powering Business Worldwide
Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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8-25-15



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ORDERING INFORMATION

Sample Number: GAN-AE-04-LED-U-T3R-BZ

Product Family	Light Engine	Number of Light Squares	Lamp Type	Voltage	Distribution	Color	Mounting
GAN-Galleon	AE-1A Drive Current	01=1 02=2 03=3 04=4 06=6 07=7 08=8 09=9 10=10	LED-Solid State Light Emitting Diodes	U=Universal (120-277V) A=480V S=347V	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide SNG=Type V Narrow SMQ=Type V Square Medium SWQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLR=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Gray BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]-Arm for Round or Square Pole CA=Extend Arm MA=Mount Adapter WM=Wall Mount
Options (Add as Suffix)				Accessories (Order Separately)			
2L=Two Circuits 7030=70 CRI 3000K 7060=70 CRI 6000K 530=Drive Current Factory Set to 530mA 700=Drive Current Factory Set to 700mA 3=Three-Position Terminal Block P=Button Type Photocontrol (120, 268, 240 or 277V) 4=NEMA Twistlock Photocontrol Receptacle 4N7=NEMA 7-Pin Twistlock Photocontrol Receptacle HA=50°C High Ambient MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height MS/DIM-L20=Motion Sensor for Dimming Operation, 9'-20' Mounting Height MS/DIM-L40=Motion Sensor for Dimming Operation, 21'-40' Mounting Height MS/X-L08=BI-Level Motion Sensor, Maximum 8' Mounting Height MS/X-L20=BI-Level Motion Sensor, 9'-20' Mounting Height MS/X-L40=BI-Level Motion Sensor, 21'-40' Mounting Height DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8'-16' Mounting Height DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16'-40' Mounting Height L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield				OA/RA1016=NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027=NEMA Photocontrol - 480V OA/RA1201=NEMA Photocontrol - 347V OA/RA1013=Photocontrol Shorting Cap OA/RA1014=120V Photocontrol SA1252=10kV Surge Module Replacement SA1006-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon SA1007-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon SA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1198-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1199-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1008-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon SA1009-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon SA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon SA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSR-100=Wireless Configuration Tool for Occupancy Sensor GAN-MT1=Field Installed Mesh Top for 1-4 Light Squares GAN-MT2=Field Installed Mesh Top for 5-6 Light Squares GAN-MT3=Field Installed Mesh Top for 7-8 Light Squares GA-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield			

- NOTES:**
- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 - Standard 4000K CCT and minimum 70 CRI
 - Requires the use of a step down transformer when combined with MS/DIM, MS/X or 3MRF
 - Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 - May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
 - Factory installed.
 - 2L is not available with MS/X or MS/DIM at 347V or 480V. 2L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
 - Not available with LumaWatt wireless sensors.
 - Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
 - 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Navion luminaire product page on the website.
 - Consult factory for more information.
 - Replace "U" with specific voltage.
 - The FSR-100 accessory is required to adjust parameters.
 - Not available with HA option.
 - LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
 - Sensor mounted externally. Available in 2, 3, 4 or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two Light Squares in low output mode. Not available with dimming driver. No terminal block with bi-level operation.
 - Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 - This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 - One required for each Light Square.

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1121 Highway 74 South
Peachtree City, GA 30269
770-456-4500
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SSS SQUARE STRAIGHT STEEL

ORDERING INFORMATION

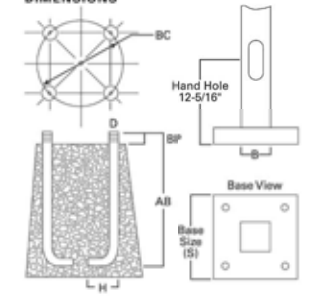
SAMPLE NUMBER: SSS5A20SFM1XG

Product Family	Sheet Size (Inches)	Wall Thickness (Inches)	Maximum Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Arm Length (Feet)	Options (Add as Suffix)
SSS-Square Straight Steel	4-4" 5-5" 6-6"	A=0.120" M=0.188" X=0.250"	10-10' 15-15' 20-20' 25-25' 30-30' 35-35' 39-39'	S-Square Steel Base	F=Dark Bronze G=Galvanized Steel J=Summit White K=Carbon Bronze L=Dark Platinum P=Primer Powder Coat R=Hartford Green S=Silver T=Graphite Metallic V=Grey W=White X=Custom Color Y=Black	2=2-3/8" O.D. Tenon (4" Long) 3=3-1/2" O.D. Tenon (5" Long) 4=4" O.D. Tenon (6" Long) 5=5" O.D. Tenon (6" Long) 6=2-3/8" O.D. Tenon (6" Long) 7=4" O.D. Tenon (10" Long)	1=Single 2=2 at 180° 3=Triple 4=4 at 90° 5=2 at 90° X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet E=GFCI Convenience Outlet G=Ground Lug H=Additional Hand Hole L=Drilled for Bumper Glitter Damper

N=Type N Drilling

NOTES: 1. All sheet sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

DIMENSIONS



WARNING: The use of unapproved accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated uses, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product. Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit www.cooper-lighting.com for available options, accessories and ordering information.

Cooper Lighting
by **EATON**

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COOPER LIGHTING

Catalog #	SSS4A20SFM1XG	Type	OB
Project	PDQ Washington Avenue	Date	8-25-15
Comments	Single Head Pole		
Prepared by	KRK		

- FEATURES**
- ASTM Grade steel base plate with ASTM A366 base cover
 - Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
 - 10'-39' mounting heights
 - Drilled or tenon (specify)

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:
Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:
Mark Bealhen
Main:(262)-646-6828
Fax: (262)-646-6829

PROJECT NAME:
PDQ - SITE PHOTOMETRICS
3520 East Washington Avenue
Madison, WI

SHEET TITLE:
Photometric Site Plan Cut Sheets

DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
6	12

SHEET:
ES105

LYONS ELECTRIC IS NOT LIABLE OR HELD RESPONSIBLE FOR THE INSTALLATION ASSOCIATED WITH THIS DRAWING SET. THE INSTALLING ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR A FULLY CODE COMPLIANT ELECTRICAL SYSTEM REGARDLESS OF THE INFORMATION FOUND IN THIS DRAWING SET.

SUBMITTAL
DRAWING
8-25-15



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SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SS5A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	30.0	22.0	17.0	13.0	100
15	SS5A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	100
20	SS5A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	150
25	SS5A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	5.4	3.8	2.4	1.6	200
25	SS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SS5A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	294	9.9	6.1	3.5	1.2	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	—	—	200
30	SS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	—	—	200
30	SS5M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	10.7	6.7	3.6	200
35	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	—	—	200
35	SS5M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SS5X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	10.0	6.8	3.5	200
39	SS5M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	—	—	300
39	SS5X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H						
10	SS5A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	100
15	SS5A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	100
20	SS5A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.5	5.2	3.4	2.1	150
25	SS5A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	—	200
25	SS5A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SS5A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	294	9.1	5.6	3.0	1.2	200
30	SS5A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	—	—	—	200
30	SS5M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	9.6	5.9	1.9	0.2	200
30	SS5A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	—	—	200
30	SS5M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	10.5	6.4	3.4	200
35	SS5M35S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.5	2.4	—	—	200
35	SS5M35S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SS5X35S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
39	SS5M39S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.0	2.4	—	—	300
39	SS5X39S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

NOTES:
1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained from Eaton's Cooper Lighting business.
2. Tension size or machining for rectangular arms must be specified. Hand hole position relative to drill location.
3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
4. EPAs based on shaft properties with wind normal to flat. EPAs calculated using basic wind velocity as indicated plus 30% gust factor.

Cooper Lighting
by E.T.N.

Eaton
1000 Eaton Boulevard
Cleveland, OH 44122
United States
Eaton.com

Eaton's Cooper Lighting Business
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

Specifications and dimensions subject to change without notice.

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Streetworks

DESCRIPTION

The Galleon™ LED luminaire delivers exceptional performance in a highly scalable, low-profile design. Patented, high-efficiency AccuLED Optics™ system provides uniform and energy conscious illumination to walkways, parking lots, roadways, building areas and security lighting applications. IP66 rated and UL/cUL Listed for wet locations.

Catalog #	GAN-AE-01-LED-U-T3-BZ	Type	
Project	PDQ Washington Avenue	OBa	
Comments	56 Watt Single Head Pole	Date	8-25-15
Prepared by	KRK		

SPECIFICATION FEATURES

Construction
Extruded aluminum driver enclosure thermally isolated from Light Squares for optimal thermal performance. Heavy-wall, die-cast aluminum end caps enclose housing and die-cast aluminum heat sinks. A unique, patent pending interlocking housing and heat sink provides scalability with superior structural rigidity. 3G vibration tested. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Electrical
LED drivers are mounted to removable tray assembly for ease of maintenance. 120-277V 50/60Hz, 347V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Standard with 0-10V dimming. Shipped standard with Eaton proprietary circuit module designed to withstand 18kV of transient line surge. The Galleon LED luminaire is suitable for operation in -40°C to 40°C ambient environments. For applications with ambient temperatures exceeding 40°C, specify the HA (High Ambient) option. Light Squares are IP66 rated, 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 53CmA and 700mA drive currents.

two or more luminaires at 90° and 120° apart, the EA extended arm may be required. Refer to the arm mounting requirement table on page 3. Round pole adapter included. For wall mounting, specify wall mount bracket option. 3G vibration rated.

Finish
Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Heat sink is powder coated black. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Optics
Patented, high-efficiency injection-molded AccuLED Optics technology. Optics are precisely designed to shape the distribution maximizing efficiency and application on spacing. AccuLED Optics create consistent distributions with the scalability to meet customized application requirements. Offered standard in 4000K (+/- 275K) CCT 70 CRI. Optional 6000K CCT and 3000K CCT.

Mounting
Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during assembly. Designed for pole or wall mounting. When mounting

Warranty
Five-year warranty.



GAN
GALLEON LED

1-10 Light Squares
Solid State LED

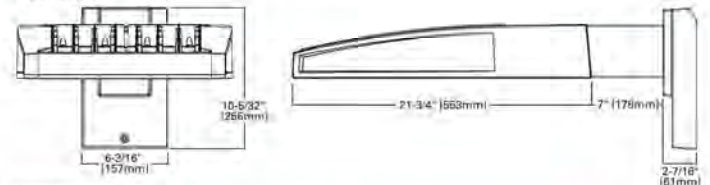
AREA / ROADWAY LUMINAIRE

DIMENSIONS

POLE MOUNT



WALL MOUNT



DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length	Weight with Arm (lbs.)	EPA with Arm (Sq. Ft.)
1-4	15-1/2" (394mm)	7" (178mm)	10" (254mm)	33 (15.0 kgs.)	0.96
5-6	21-5/8" (549mm)	7" (178mm)	10" (254mm)	44 (20.0 kgs.)	1.00
7-8	27-5/8" (702mm)	7" (178mm)	15" (381mm)	54 (24.5 kgs.)	1.0*
9-10	33-3/4" (857mm)	7" (178mm)	16" (406mm)	63 (28.6 kgs.)	1.12

NOTES: 1. Optional arm length to be used when mounting two luminaires at 90° on a single pole. 2. EPA calculated with optional arm length.



www.oesignlights.com



CERTIFICATION DATA
UL/cUL Wet Location Listed
ISO 9001
LM79 / LM80 Compliant
3G Vibration Rated
IP66 Rated
DesignLights Consortium® Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120V-277V 50/60Hz
347V & 480V 60Hz
-40°C Min. Temperature
40°C Max. Temperature
50°C Max. Temperature (HA Option)



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Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:

Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:

Mark Bealhen
Main: (262)-646-6828
Fax: (262)-646-6829

PROJECT NAME:

PDQ - SITE
PHOTOMETRICS
3520 East Washington Avenue
Madison, WI

SHEET TITLE:

Photometric Site Plan
Cut Sheets

DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
7	12

SHEET:
ES106

LYONS ELECTRIC IS NOT LIABLE OR HELD RESPONSIBLE FOR THE INSTALLATION ASSOCIATED WITH THIS DRAWING SET. THE INSTALLING ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR A FULLY CODE COMPLIANT ELECTRICAL SYSTEM REGARDLESS OF THE INFORMATION FOUND IN THIS DRAWING SET.

SUBMITTAL
DRAWING
8-25-15



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Revisions

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8 12

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GAN GALLEON LED

NOMINAL POWER AND LUMENS (1A)

Number of Light Squares	1	2	3	4	5	6	7	8	9	10	
Drive Current	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A	
Nominal Power (Watts)	56	107	157	213	264	315	370	421	475	528	
Input Current @ 120V (A)	0.47	0.90	1.3*	1.79	2.21	2.64	3.09	3.51	3.96	4.41	
Input Current @ 208V (A)	0.28	0.51	0.74	1.02	1.25	1.48	1.76	1.99	2.22	2.50	
Input Current @ 240V (A)	0.25	0.45	0.65	0.90	1.10	1.30	1.55	1.75	1.95	2.20	
Input Current @ 277V (A)	0.25	0.41	0.59	0.82	1.00	1.18	1.41	1.59	1.77	2.00	
Optics											
T2	Lumens	3,272	10,303	15,373	20,313	25,168	30,118	35,618	40,357	45,018	49,842
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T2R	Lumens	5,597	10,938	16,221	21,565	26,719	31,974	37,813	42,844	47,792	52,914
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G4	B4-U0-G5
T3	Lumens	5,374	10,501	15,699	20,704	25,652	30,697	36,303	41,134	45,884	50,802
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3R	Lumens	5,893	10,735	16,017	21,164	26,222	31,379	37,110	42,048	46,904	51,930
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	Lumens	5,405	10,562	15,790	20,824	25,801	30,875	36,514	41,372	46,150	51,096
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	Lumens	5,335	10,426	15,506	20,555	25,486	30,476	36,042	40,838	45,554	50,436
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL2	Lumens	5,263	10,285	15,347	20,278	25,124	30,066	35,556	40,288	44,940	49,756
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL3	Lumens	5,373	10,500	15,697	20,701	25,649	30,693	36,298	41,128	45,878	50,794
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	Lumens	5,105	9,976	14,896	19,669	24,370	29,163	34,488	39,078	43,591	48,262
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SNQ	Lumens	5,542	10,830	16,130	21,352	26,455	31,658	37,439	42,421	47,320	52,392
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
SMQ	Lumens	5,644	11,029	16,457	21,745	26,942	32,241	38,128	43,202	48,191	53,356
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5
SWQ	Lumens	5,659	11,059	16,501	21,803	27,014	32,327	38,230	43,317	48,320	53,498
	BUG Rating	B3-U0-G1	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
SL/SLR	Lumens	4,722	9,227	13,737	18,191	22,539	26,971	31,897	36,141	40,315	44,635
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	Lumens	5,492	10,732	16,014	21,159	26,216	31,372	37,101	42,038	46,893	51,918
	BUG Rating	B2-U0-G1	B3-U0-G1	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4
AFL	Lumens	5,512	10,771	16,072	21,236	26,311	31,486	37,236	42,191	47,063	52,107
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4

* Nominal data for 4000K CCT.

LUMEN MULTIPLIER

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
20°C	1.00
40°C	0.99
50°C	0.97

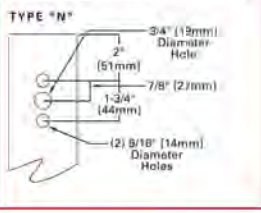
LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Theoretical L70 (Hours)
25°C	> 94%	> 350,000
40°C	> 93%	> 250,000
50°C*	> 90%	> 170,000

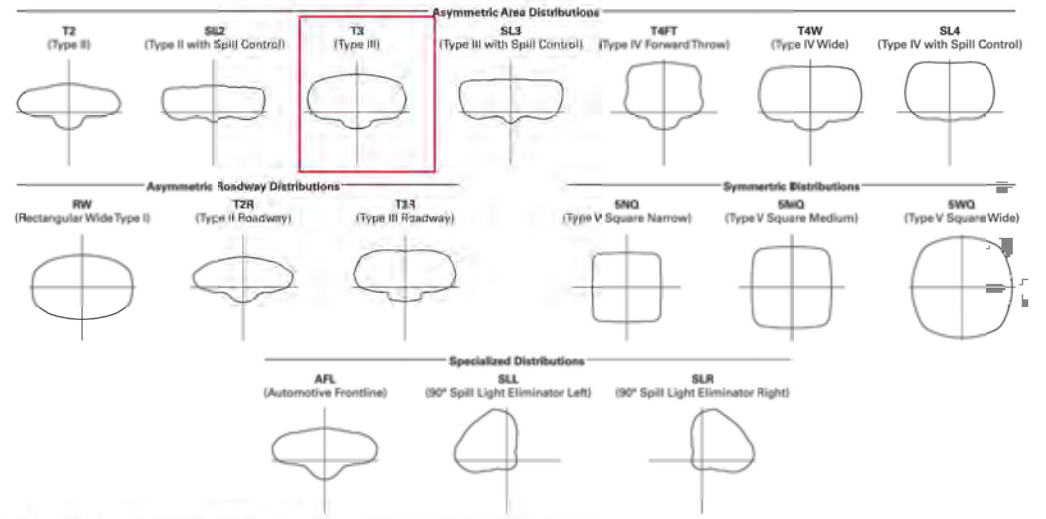
OPTIC ORIENTATION



DRILLING PATTERN

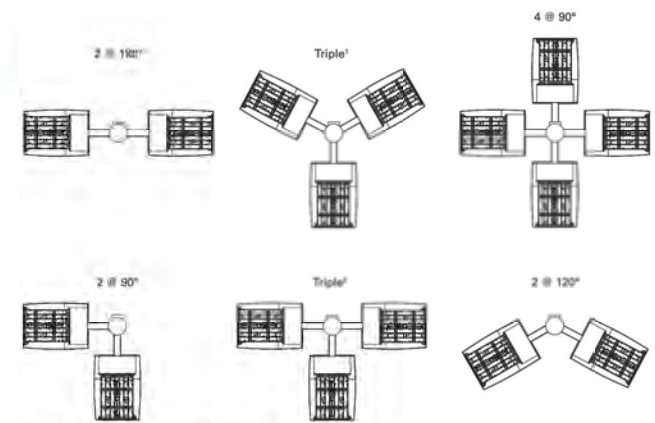


OPTICAL DISTRIBUTIONS



ARM MOUNTING REQUIREMENTS

Configuration	90° Apart	120° Apart
GAN-AE-01	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-02	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-03	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-04	7" Arm (Standard)	7" Arm (Standard)
GAN-AE-05	10" Extended Arm (Required)	7" Arm (Standard)
GAN-AE-06	10" Extended Arm (Required)	7" Arm (Standard)
GAN-AE-07	13" Extended Arm (Required)	13" Extended Arm (Required)
GAN-AE-08	13" Extended Arm (Required)	13" Extended Arm (Required)
GAN-AE-09	16" Extended Arm (Required)	16" Extended Arm (Required)



NOTE: 1 Pointed optic are 2 @ 120°, Square optic are 2 @ 90°. 2 Round optic are 2 @ 90°.

Eaton
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

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GAN GALLEON LED

ORDERING INFORMATION

Sample Number: GAN-AE-04-LED-U-T3R-BZ

Product Family	Light Engine	Number of Light Squares	Lamp Type	Voltage	Distribution	Color	Mounting
GAN-Galleon	AE-1A Drive Current	01-1 02-2 03-3 04-4 06-6 07-7 08-8 09-9 10-10	LED-Solid State Light Emitting Diodes	U-Universal (120-277V) E-480V S-347V	T2-Type II T2B-Type II Roadway T2C-Type III T3C-Type III Roadway T4FT-Type IV Forward Throw T4W-Type IV Wide SND-Type V Narrow SMD-Type V Square Medium SWQ-Type V Square Wide SL2-Type II w/Spill Control SL3-Type III w/Spill Control SL4-Type IV w/Spill Control SL-90° Spill Light Eliminator Left SLR-90° Spill Light Eliminator Right RW-Rectangular Wide Type I AFL-Automotive Frontline	AP=Gray BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]-Arm for Round or Square Pole EA-Extended Arm MA-Mast Arm Adapter WM-Wall Mount

Options (Add as Suffix)	Accessories (Order Separately)
2L=Two Circuits 7090-70 CRI 3000K 7060-70 CRI 6000K 530-Drive Current Factory Set to 530mA 700-Drive Current Factory Set to 700mA 3=Three-Position Terminal Block P=Button Type Photocontrol (120, 268, 240 or 277V) 4=NEMA Twistlock Photocontrol Receptacle 4N7-NEMA 7-Pin Twistlock Photocontrol Receptacle HA=50°C High Ambient MS/DIM-L08-Motion Sensor for Dimming Operation, Maximum 8' Mounting Height MS/DIM-L20-Motion Sensor for Dimming Operation, 9'-20' Mounting Height MS/X-L08-Bi-Level Motion Sensor, Maximum 8' Mounting Height MS/X-L20-Bi-Level Motion Sensor, 9'-20' Mounting Height MS/X-L40-Bi-Level Motion Sensor, 21'-40' Mounting Height DIMRF-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height DIMRF-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height L90-Optics Rotated 90° Left R90-Optics Rotated 90° Right MT-Factory Installed Mesh Top TH=Tool-less Door Hardware LCF=Light Square Trim Plate Painted to Match Housing HSS=Factory Installed House Side Shield	OA/RA1016-NEMA Photocontrol Multi-Tap - 105-285V OA/RA1027-NEMA Photocontrol - 480V OA/RA1029-NEMA Photocontrol - 347V OA/RA1033-Photocontrol Shorting Cap OA/RA1014-120V Photocontrol SA1252-10kV Surge Module Replacement SA1006-XX-Single Tenon Adapter for 2-3/8" O.D. Tenon SA1937-XX-2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon SA1197-XX-3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1188-XX-4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1189-XX-2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1190-XX-3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon SA1191-XX-2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon SA1193-XX-Single Tenon Adapter for 3-1/2" O.D. Tenon SA1192-XX-2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon SA1192-XX-3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon SA1193-XX-4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1194-XX-2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon SA1195-XX-3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100-Wireless Configuration Tool for Occupancy Sensor GAN-MT1-Field Installed Mesh Top for 1-4 Light Squares GAN-MT2-Field Installed Mesh Top for 5-8 Light Squares GAN-MT3-Field Installed Mesh Top for 7-8 Light Squares GA-MT4-Field Installed Mesh Top for 9-10 Light Squares LS/HSS-Field Installed House Side Shield

NOTES:
 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
 2. Standard 4000K CCT and minimum 70 CRI
 3. Requires the use of a step down transformer when combined with MS/DIM, MS/X or DIMRF
 4. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
 5. May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table.
 6. Factory installed.
 7. L is not available with MS/X or MS/DIM at 347V or 480V. L in AE-02 through AE-04 requires a larger housing, normally used for AE-05 or AE-06.
 8. Not available with LumaWatt wireless sensors.
 9. Use dedicated IES files for 3000K and 6000K when performing layouts. These files are published on the Galleon luminaire product page on the website.
 10. 1 Amp standard. Use dedicated IES files for 530mA and 700mA when performing layouts. These files are published on the Navion luminaire product page on the website.
 11. Consult factory for more information.
 12. Replace "U" with specific voltage.
 13. The FSIR-100 accessory is required to adjust parameters.
 14. Not available with HA option.
 15. LumaWatt wireless sensors are factory installed only requiring network components RF-EM-1, RF-GW-1 and RF-ROUT-1 in appropriate quantities. See www.eaton.com/lighting for LumaWatt application information.
 16. Sensor mounted externally. Available in 2, 3, 4 or 6 Light Square configurations. Replace "X" with number of Light Squares in low output mode. For ON/OFF operation, replace "X" with "0". Maximum two Light Squares in low output mode. Not available with dimming driver. No terminal block with bi-level operation.
 17. Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
 18. This tool enables adjustment of parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Eaton for more information.
 19. One required for each Light Square.



Eaton
1121 Highway 74 South
Peachtree City, GA 30269
www.eaton.com/lighting
770-486-4800
Specifications and dimensions subject to change without notice.

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SSS SQUARE STRAIGHT STEEL

COOPER LIGHTING

Catalog #	SSS4A20SFN1XG	Type	OBa
Project	PDQ Washington Avenue	Date	8-25-15
Comments	Single Head Pole		
Prepared by	KRK		

- FEATURES
- ASTM Grade steel base plate with ASTM A366 base cover
 - Hand hole assembly 3" x 5" on 5" and 6" pole; and 2" x 4" on 4" pole
 - 10'-39" mounting heights
 - Drilled or tenon (specify)

ORDERING INFORMATION

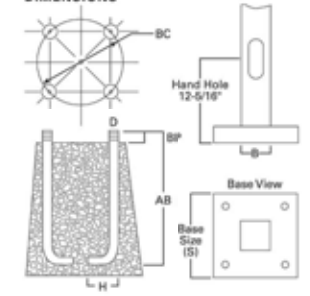
SAMPLE NUMBER: SSSA26SFM1XG

Product Family	Shaft Size (Inches)	Wall Thickness (Inches)	Mounting Height (Feet)	Issue Type	Finish	Mounting Type	Number and Location of Arms	Arm Length (Feet)	Options (Add as Suffix)
SSS-Square Straight Steel	4-4"	A=0.120"	10-10'	S-Square Steel Base	F-Dark Bronze	2-2-3/8" O.D. Tenon (4" Long) 3-3-1/2" O.D. Tenon (6" Long) 4-4" O.D. Tenon (8" Long) 5-3" O.D. Tenon (4" Long) 6-2-3/8" O.D. Tenon (6" Long) 7-4" O.D. Tenon (10" Long)	1-Single X=None	X=None	A=1/2" Tapped Hub (Specify location desired) B=3/4" Tapped Hub (Specify location desired) C=Convenience Outlet? E=GFCI Convenience Outlet? G=Ground Lug H=Additional Hand Hole L=Drilled for Bumper Glitter V=Vibration Dampener
	5-5"	W=0.188"	15-15'		J-Summit White				
	6-6"	X=0.250"	20-20'		K-Carbon Bronze L-Dark Platinum P-Primer Powder Coat R-Hartford Green S-Silver T-Graphite Metallic V-Grey W-White X-Custom Color Y-Black				
			20-20'				4-4 at 90° 5-2 at 90° X=None		
			25-25'						
			30-30'						
			35-35'						
			39-39'						

N=Type N Drilling

NOTES: 1. All shaft sizes nominal. 2. Square poles are 3 at 90°, round poles are 3 at 120°. 3. Outlet is located 4' above base and on same side of pole as hand hole, unless specified otherwise. Receptacle not included, provision only. 4. Additional hand hole is located 12" below pole top and 90° from standard hand hole location, unless otherwise specified.

DIMENSIONS



WARNING: The use of unauthorized accessories such as banners, signs, cameras or pennants for which the pole was not designed voids the pole warranty from Eaton's Cooper Lighting business and may result in pole failure causing serious injury or property damage. Upon request, Eaton's Cooper Lighting business will supply information regarding total loading capacity. The pole warranty from Eaton's Cooper Lighting business is void unless poles are used and installed as a complete pole/luminaire combination. This warranty specifically excludes failure as the result of a third party act or omission, misuse, unanticipated loads, fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.
 Specifications and dimensions subject to change without notice. Consult your Eaton's Cooper Lighting business representative or visit www.cooper-lighting.com for available options, accessories and ordering information.



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Revisions		
No.	Description	Date

FIRM NAME AND ADDRESS:
 Lyons Electric
 75 Enterprise Rd.
 Delafield, WI 53018

CONTACT INFORMATION:
 Mark Bealhen
 Main:(262)-646-6828
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PROJECT NAME:

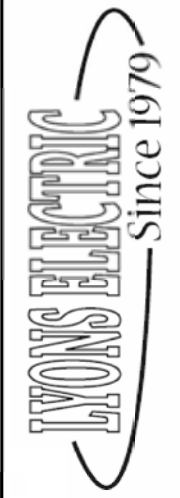
PDQ - SITE
 PHOTOMETRICS
 3520 East Washington Avenue
 Madison, WI

SHEET TITLE: Photometric Site Plan Cut Sheets	
DRAWN BY: KRK	APPROVED BY: KRK
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SHEET:
ES108

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SUBMITTAL
DRAWING
8-25-15



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SSS SQUARE STRAIGHT STEEL

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H		80 mph	90 mph	100 mph	110 mph	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	86	30.0	22.0	17.0	13.0	160
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	15.0	11.5	8.7	6.5	160
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	8.7	5.9	3.9	2.5	160
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	183	16.4	11.1	7.9	5.5	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.7	1.7	0.3	--	200
25	SSS4A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	9.3	6.0	3.5	1.6	200
25	SSS4A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.9	6.1	3.5	1.2	200
30	SSS4A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	4.7	2.1	--	--	200
30	SSS4M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	10.4	6.4	3.5	1.5	200
30	SSS4A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.3	1.4	--	--	200
30	SSS4M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	19.0	13.0	8.7	5.6	200
35	SSS4M36S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	453	5.8	2.8	--	--	200
35	SSS4M36S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	12.8	7.2	3.7	1.0	200
35	SSS4X36S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.5	11.0	6.8	3.5	200
35	SSS4M36S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	618	7.3	3.0	--	--	300
35	SSS4X36S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	13.0	7.0	3.7	0.8	300

Effective Projected Area (Two Feet Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Base Square (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Size (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet)				Max. Fixture Load - Includes Bracket (Pounds)
									80 mph	90 mph	100 mph	110 mph	
MH			S	BC	BP	B	D x AB x H		80 mph	90 mph	100 mph	110 mph	
10	SSS4A10S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	85	23.0	17.5	14.0	11.0	160
15	SSS4A15S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	118	13.4	10.0	7.5	5.7	160
20	SSS4A20S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	150	7.6	5.2	3.4	2.1	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	183	13.8	9.9	7.1	4.9	150
25	SSS4A25S	0.120	10-1/2	11	4-1/2	4	3/4 x 25 x 3	181	3.4	1.6	0.3	--	200
25	SSS4A25S	0.120	10-1/2	11	5	5	3/4 x 25 x 3	222	8.5	5.5	3.2	1.5	200
25	SSS4A25S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	284	9.1	5.6	3.0	1.2	200
30	SSS4A30S	0.120	10-1/2	11	4-1/2	5	3/4 x 25 x 3	260	1.8	--	--	--	200
30	SSS4M30S	0.188	10-1/2	11	4-1/2	5	3/4 x 25 x 3	392	8.6	5.9	1.9	0.2	200
30	SSS4A30S	0.120	12-1/2	12-1/2	5	6	1 x 36 x 4	330	4.1	1.3	--	--	200
30	SSS4M30S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	489	18.5	12.5	8.4	5.3	200
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35	SSS4M36S	0.188	12-1/2	12-1/2	5	6	1 x 36 x 4	564	11.8	7.0	3.5	1.0	200
35	SSS4X36S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	738	16.0	10.5	6.4	3.4	200
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35	SSS4X36S	0.250	12-1/2	12-1/2	5	6	1 x 36 x 4	816	12.0	6.7	3.0	0.5	300

NOTES:
 1. Catalog number includes pole with hardware kit. Anchor bolts not included. Before installing, make sure proper anchor bolts and templates are obtained from Eaton's Cooper Lighting business.
 2. Base size or machining for rectangular arms must be specified. Hand hole position relative to Ø90 location.
 3. Shaft size, base square, anchor bolts and projections may vary slightly. All dimensions nominal.
 4. EPIs based on shaft properties with wind normal to flat. EPIs calculated using base wind velocity as indicated plus 30% gust factor.

Cooper Lighting by **Eaton**
 Eaton's Cooper Lighting Business
 1000 Eaton Boulevard, Cleveland, OH 44122
 1121 Highway 76 South, Peachtree City, GA 30269
 Specifications and dimensions subject to change without notice.
 ADH130493
 2014-04-02 13:41:02

LED CANOPY LIGHT - LEGACY™ (CRUS)



AC distribution utilizes a reflector which alters the look from a standard S distribution

DOE LIGHTING FACTS
 Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

US & Int'l. patents pending.

HOUSING - Low profile, durable die-cast, aluminum construction, providing a reliable weather-tight seal.

LEDS - Features an array of select, mid-power, high brightness, high efficiency LED chips; 5000K color temperature, 70 CRI (nominal).

DRIVE CURRENT - Choice of Very Low Wattage (VLW), Low Wattage (LW) or Super Saver (SS).

OPTICS / DISTRIBUTION - Choice of Symmetrical or Asymmetrical, which directs light through a clear tempered glass lens, to provide a uniform distribution of light to vertical and horizontal surfaces.

OPTICAL UNIT - Features an ultra-slim 7/8" profile die-cast housing, with a flat glass lens. Unit is water-resistant, sealed to an IP67 rating. Integral designed heat sink does not trap dirt and grime, ensuring cool running performance over the life of the fixture.

PRESSURE STABILIZING VENT - Luminaire assembly incorporates a pressure stabilizing vent breather to prevent seal fatigue and failure.

HAZARDOUS LOCATION - Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 only when properly installed per LSI installation instructions (consult factory).

DRIVER - State-of-the-art driver technology superior energy efficiency and optimum light output. Driver components are fully encased in potting for moisture resistance. Complies with IEC and FCC standards. 0-10 V dimming supplied standard with all drive currents.

DRIVER HOUSING - Die-cast aluminum, wet location rated driver/electrical enclosure is elevated above canopy deck to prevent water entry, provide easy "knock-out" connection of primary wiring and contributes to attaining the lowest operating temperatures available. Seals to optical housing via one-piece molded silicone gasket.

OPERATING TEMPERATURE - -40°C to 50°C (-40°F to +122°F)

ELECTRICAL - Universal voltage power supply, 120-277 VAC, 50/60 HZ input. Drivers feature two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Scenario 1, Location Category C.

FINISH - Standard color is white and is finished with LSI's DuraGrip® polyester powder coat process. DuraGrip withstands extreme weather changes without cracking or peeling.

INSTALLATION - One person installation. No additional sealant required. Installs in a 12" or 16" deck pan. Deck penetration consists of a 4" hole, simplifying installation and water sealing. Unit is designed to quickly retrofit into existing Scottsdale (4") hole as well as openings for Encore and Encore Top Access and to reconnect wiring for the SC/ECTA without having to relocate the conduit. Retro panels are available for existing Encores (see back page) as well as kits for recessed and 2x2 installations (see separate spec sheets). Support brackets are provided standard, to prevent sagging of deck.

SHIPPING WEIGHT - 27 pounds (single pack), 48 pounds (double pack).

EXPECTED LIFE - Minimum 60,000 to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

WARRANTY - Limited 5-year warranty.

LISTING - UL and ETL listed to UL 1598, UL 8750 and other U.S. and International safety standards. Suitable for wet locations.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

Consult Factory
 Class 1, Division 2 - Standard on SS & LW.
 T5 Temperature Classification - The surface temperature of this product will not rise above 100°C, within a 40°C ambient.
 Gas Groups A, B, C, and D - Group A: Acetylene / Group B: Hydrogen / Group C: Propane and Ethylene / Group D: Benzene, Butane, Methane & Propane.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.



Project Name: PDQ Washington Avenue | Fixture Type: Oca | 01/12/15
 Catalog #: CRUS-SC-LED-SS-CW-UE-WHT | © 2014 LSI INDUSTRIES INC.

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:
 Lyons Electric
 75 Enterprise Rd.
 Delafield, WI 53018

CONTACT INFORMATION:
 Mark Bealhen
 Main: (262)-646-6828
 Fax: (262)-646-6829

PROJECT NAME:
 PDQ - SITE
 PHOTOMETRICS
 3520 East Washington Avenue
 Madison, WI

SHEET TITLE:
 Photometric Site Plan
 Cut Sheets

DRAWN BY: KRK	APPROVED BY: KRK
DATE DRAWN: 5-26-15	
Sheet	Of
10	12
SHEET: ES109	

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SUBMITTAL
DRAWING
8-25-15

LYONS ELECTRIC
Since 1979

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LED CANOPY LIGHT - LEGACY™ (CRUS)



LUMINAIRE ORDERING INFORMATION

TYPICAL ORDER EXAMPLE: **CRUS SC LED SS CW UE WHT**

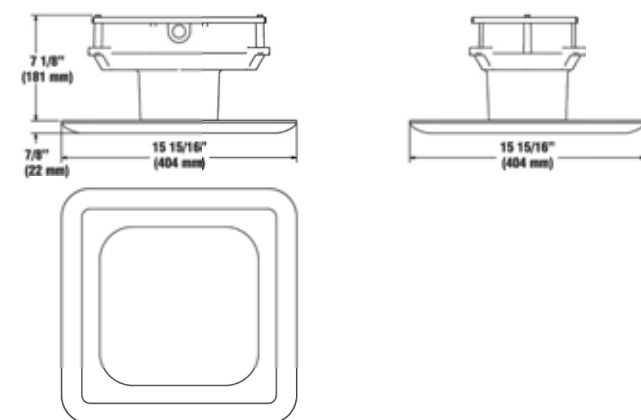
Prefix	Distribution ¹	Light Source	Drive Current	Color Temperature	Input Voltage	Finish	Options
CRUS	SC - Standard Symmetric AC - Asymmetric	LED	V LW - Very Low Watt LW - Low Watt SS - Super Saver	CW - Cool White	UE - Universal Voltage (120-277V) 347 - 480V	W-T - White BRZ - Bronze BLK - Black	None

FOOTNOTES:
1- AC distribution utilizes a reflector which alters the look from a standard S distribution.

ACCESSORY ORDERING INFORMATION (Accessories are field installed)

Description	Order Number	Description	Order Number
Retrofit Panels - EC / ECTA / SCF to CRU, for 16" Deck Panel	525946	Kit - Hole Plugs and Silicone (enough for 25 retrofits) ¹	1320540
Retrofit Panels - ECTA / SCF to CRU, for 12" Deck Panel	530281	1- Consists of (25) 7/8" hole plugs and (1) 10.3" cut of RTV	
Retrofit 2x2 Cover Panel Blank (no holes)	357282		
Retrofit RIC Cover Panel Blank (no holes)	354702		

DIMENSIONS



LIGHT OUTPUT - CRUS

		Lumens		Watts		LPW	
		SC	AC	SC	AC	SC	AC
Cool White	V LW - Very Low Watt	8,842	-	79	-	112	-
	LW - Low Watt	10,871	8746	88	83	124	105
	SS - Super Saver	13,554	11,518	114	111	119	104



Project Name: PDQ Washington Avenue Fixture Type: OCa 01/12/15
Catalog # CRUS-SC-LED-SS-CW-UE-WHT © 2014 LSI INDUSTRIES INC.

DESCRIPTION

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

SPECIFICATION FEATURES

Construction
Slim, low-profile LED design with rugged one-piece, die-cast aluminum hinged removable door and back box. Matching housing styles incorporate both a small and large design. The small housing is available in 7W and 18W. The large housing is available in the 26W model. Patent pending secure lock hinge feature allows for safe and easy tool-less electrical connections with the supplied push-in connectors. Back box includes three (3) half-inch, NPT threaded conduit entry points. The universal back box supports both the small and large forms and mounts to standard 3-1/2" to 4" round and octagonal, 4" square, single gang and masonry junction boxes. Key hole gasket allows for adaptation to junction box or wall. External fin design extracts heat from the fixture surface. One-piece silicone gasket seals door and back box. Minimum 5" wide pole for site lighting application. Not recommended for car wash applications.

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

Electrical
LED driver is mounted to the die-cast housing for optimal heat sinking. LED thermal management system incorporates both conduction and natural convection to transfer heat rapidly away from the LED source. 7W models operate in -40°C to 40°C [-40°F to 104°F]. 18W and 26W models operate in -40°C to 40°C [-40°F to 104°F]. High ambient 50°C models available. Crosstour luminaires maintain greater than 90% of initial

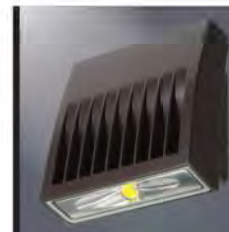
light output after 72,000 hours of operation. Three (3) half-inch NPT threaded conduit entry points allow for thru-branch wiring. Back box is an authorized electrical wiring compartment. Integral LED electronic driver incorporates surge protection. 120-277V 50/60Hz or 347V 60Hz models.

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

Warranty
Five-year warranty.

Lumark

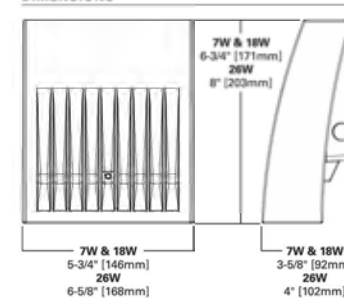
Catalog #	XTOR2A	Type	CWa
Project	PDQ Washington Avenue	Date	8-25-15
Comments	LED Wall Pack		
Prepared by	KRK		



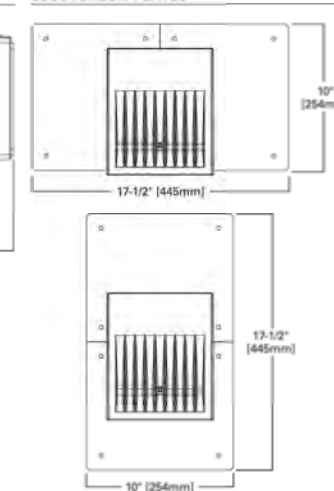
XTOR CROSSTOUR LED

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

DIMENSIONS



ESCUTCHEON PLATES



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

TECHNICAL DATA
40°C Maximum Ambient Temperature
External Supply Wiring 30°C Minimum

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

SHIPPING DATA
Approximate Net Weight:
3.7 - 5.25 lbs. (1.7 - 2.4 kgs.)

TD514013EN
2015-05-29 11:34:51



*www.designlights.org

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:

Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:

Mark Bealhen
Main: (262)-646-6828
Fax: (262)-646-6829

PROJECT NAME:

PDQ - SITE
PHOTOMETRICS

3520 East Washington Avenue
Madison, WI

SHEET TITLE:

Photometric Site Plan
Cut Sheets

DRAWN BY:
KRK
DATE DRAWN:
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APPROVED BY:
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Sheet Of

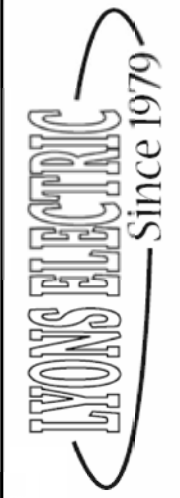
1112

SHEET:

ES110

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XTOR CROSSTOUR LED

LUMEN MAINTENANCE

Ambient Temperature	TM-21 Lumen Maintenance (72,000 Hours)	Theoretical L70 (Hours)
XTOR1A Model		
25°C	> 92%	> 290,000
40°C	> 92%	> 290,000
50°C	> 91%	> 270,000
XTOR2A Model		
25°C	> 91%	> 270,000
40°C	> 90%	> 260,000
50°C	> 88%	> 225,000
XTOR3A Model		
25°C	> 91%	> 280,000
40°C	> 91%	> 270,000
50°C	> 89%	> 240,000

LUMENS - CRI/CCT TABLE

LED Information	XTOR1A	XTOR2A	XTOR2A-N	XTOR3A	XTOR3A-N
Delivered Lumens (Wall Mount)	722	1,633	1,523	2,804	2,284
Delivered Lumens (With Flood Accessory Kit) 1	468	1,060	978	2,168	1,738
B.U.G. Rating 2	B0-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0	B1-U0-G0
CCT (Kelvin)	5,000	5,000	3,500	5,000	3,500
CRI (Color Rendering Index)	65	65	70	65	70
Power Consumption (Watts)	7W	18W	18W	26W	26W

NOTES: 1 Includes shield and visor. 2 B.U.G. Rating does not apply to floodlighting.

CURRENT DRAW

Voltage	Model Series		
	XTOR1A	XTOR2A	XTOR3A
120V	0.05A	0.15A	0.22A
208V	0.03A	0.08A	0.13A
240V	0.03A	0.07A	0.11A
277V	0.03A	0.08A	0.10A
347V	0.025A	0.058A	0.082A

ORDERING INFORMATION

Sample Number: XTOR2A-N-WT-PC1

Series 1	LED Kelvin Color	Housing Color	Options (Add as Suffix)	Accessories (Order Separately)
XTOR1A=Small Door, 7W XTOR2A=Small Door, 18W XTOR3A=Small Door, 26W	[Blank]=Bright White (Standard) 5000K N=Neutral Warm White, 3500K 2	[Blank]=Carbon Bronze (Standard) WT=Summit White	PC1=Photocontrol 120V 3 PC2=Photocontrol 208-277V 3,4 347V=347V 5 HA=50°C High Ambient 6	WG/XTOR=Wire Guard 4 XTORFLD-KNC=Knuckle Floodlight Kit 7 XTORFLD-TRN=Trunnion Floodlight Kit 7 XTORFLD-KNC-WT=Knuckle Floodlight Kit, Summit White 7 XTORFLD-TRN-WT=Trunnion Floodlight Kit, Summit White 7 EWP/XTOR=Escutcheon Wall Plate, Carbon Bronze EWP/XTOR-WT=Escutcheon Wall Plate, Summit White

NOTES: 1 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2 XTOR1A not available in 3500K. 3 Photocontrols are factory installed. 4 Order PC2 for 347V models. 5 Thru-branch wiring not available with 18A option or with 347V. 6 Wire guard for wall/surface mount. Not for use with floodlight kit accessory. 7 Floodlight kit accessory supplied with knuckle (KNC) or trunnion (TRN) base, small and large top visors and small and large impact shields.

STOCK ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A=7W, 5000K, Carbon Bronze	XTOR2A=18W, 5000K, Carbon Bronze	XTOR3A=26W, 5000K, Carbon Bronze
XTOR1A-WT=7W, 5000K, Summit White	XTOR2A-N=18W, 3500K, Carbon Bronze	XTOR3A-N=26W, 3500K, Carbon Bronze
XTOR1A-PC1=7W, 5000K, 120V PC, Carbon Bronze	XTOR2A-WT=18W, Summit White	XTOR3A-WT=26W, Summit White
	XTOR2A-PC1=18W, 120V PC, Carbon Bronze	XTOR3A-PC1=26W, 120V PC, Carbon Bronze

5-DAY QUICK SHIP ORDERING INFORMATION

7W Series	18W Series	26W Series
XTOR1A-WT-PC1=7W, 5000K, Summit White, 120V PC	XTOR2A-PC2=18W, 5000K, 208-277V PC, Carbon Bronze	XTOR3A-PC2=26W, 5000K, 208-277V PC, Carbon Bronze
	XTOR2A-WT-PC1=18W, 5000K, Summit White, 120V PC	XTOR3A-WT-PC1=26W, 5000K, Summit White, 120V PC
	XTOR2A-WT-PC2=18W, 5000K, Summit White, 208-277V PC	XTOR3A-WT-PC2=26W, 5000K, Summit White, 208-277V PC
	XTOR2A-N-WT=18W, 3500K, Summit White	XTOR3A-N-WT=26W, 3500K, Summit White
	XTOR2A-N-PC1=18W, 3500K, 120V PC, Carbon Bronze	XTOR3A-N-PC1=26W, 3500K, 120V PC, Carbon Bronze
	XTOR2A-N-PC2=18W, 3500K, 208-277V PC, Carbon Bronze	XTOR3A-N-PC2=26W, 3500K, 208-277V PC, Carbon Bronze
	XTOR2A-N-WHT-PC1=18W, 3500K, Summit White, 120V PC	XTOR3A-N-WHT-PC1=26W, 3500K, Summit White, 120V PC
	XTOR2A-N-WT-PC2=18W, 3500K, Summit White, 208-277V PC	XTOR3A-N-WT-PC2=26W, 3500K, Summit White, 208-277V PC



Eaton
1121 Highway 71 South
Peachtree City, GA 30269
P: 770-486-4800
www.eaton.com/lighting

Specifications and dimensions subject to change without notice.

TD514013EN
2015-05-29 11:34:51

Revisions

No.	Description	Date

FIRM NAME AND ADDRESS:

Lyons Electric
75 Enterprise Rd.
Delafield, WI 53018

CONTACT INFORMATION:

Mark Bealhen
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APPROVED BY:
KRK

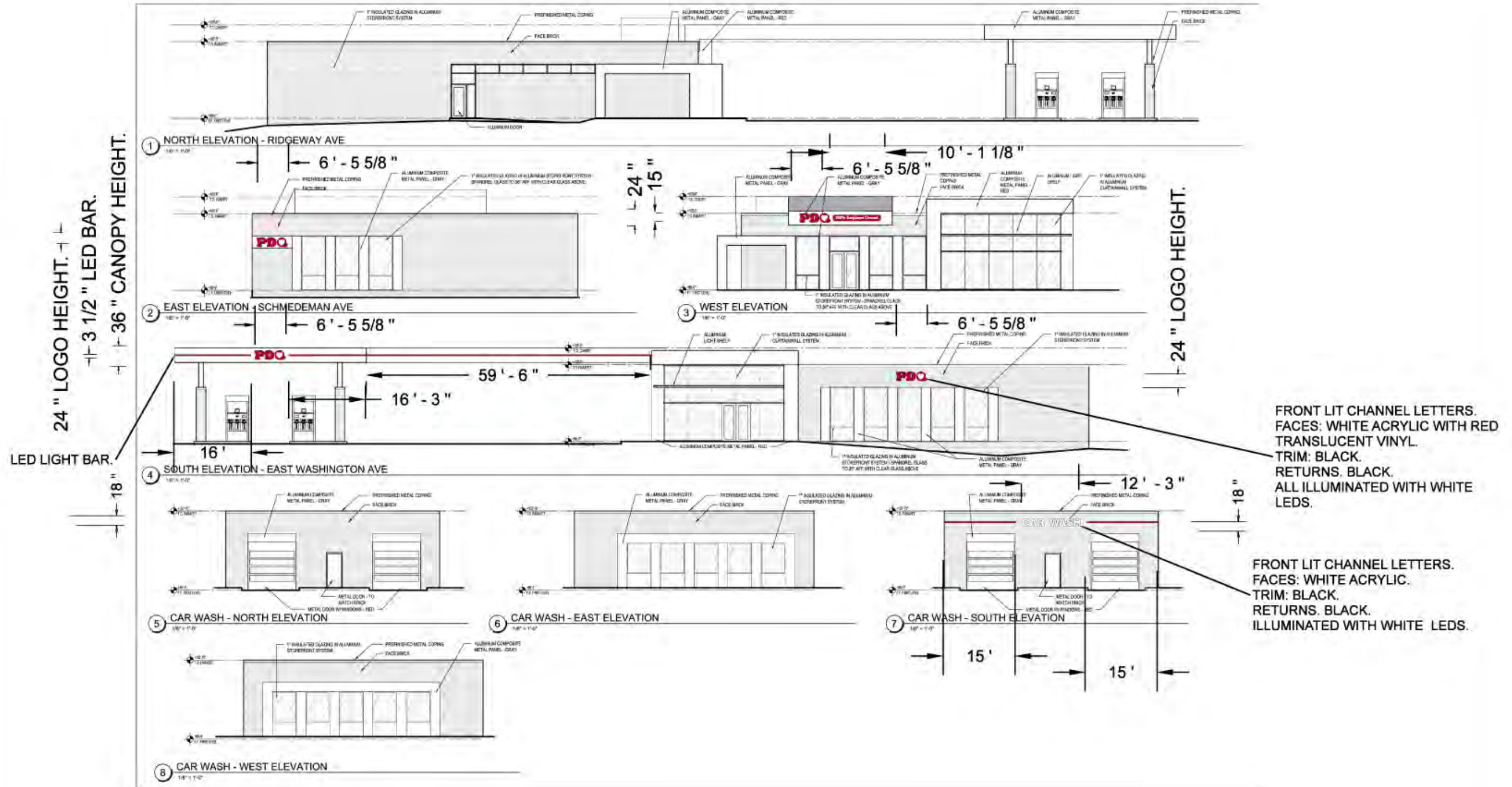
Sheet Of
1212

SHEET:

ES111

LYONS ELECTRIC IS NOT LIABLE OR HELD RESPONSIBLE FOR THE INSTALLATION ASSOCIATED WITH THIS DRAWING SET. THE INSTALLING ELECTRICAL CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR A FULLY CODE COMPLIANT ELECTRICAL SYSTEM REGARDLESS OF THE INFORMATION FOUND IN THIS DRAWING SET.

DESCRIPTIVE TITLE VARIOUS SIGNS.



FRONT LIT CHANNEL LETTERS.
 FACES: WHITE ACRYLIC WITH RED
 TRANSLUCENT VINYL.
 TRIM: BLACK.
 RETURNS: BLACK.
 ALL ILLUMINATED WITH WHITE
 LEDS.

FRONT LIT CHANNEL LETTERS.
 FACES: WHITE ACRYLIC.
 TRIM: BLACK.
 RETURNS: BLACK.
 ILLUMINATED WITH WHITE LEDS.

Approved by: _____ Date: _____ Landlord: _____ Date: _____

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 2242 Mustang Way • Madison, WI 53718 • 608-222-5353
 2502 Melby Street • Eau Claire, WI 54703 • 715-835-6189

DESIGN

Drawing by: **MICHAEL V JOLIN**
 Sign Type: **VARIOUS SIGNS.**
 Date Created: **10/6/2015**
 Last Modified: **10/6/2015**
 Scale:

SALES

Job Name: **PDQEasWasWall**
 Job **3520 EAST WASHINGTON**
 Address: **MADISON WI, 53718**
 Salesperson: **BILL RUPP**
 Job Number: **#5173**

FILE

Revision Number: **REVISION 8**
 Job File Location:

COLOR KEY

*COLORS ON SKETCH ARE ONLY A REPRESENTATION. ACTUAL COLOR OF FINISHED PRODUCT MAY DIFFER.



NIGHT VIEW.

SPECIFICATION NOTES

- A** DOUBLE FACED ILLUMINATED GROUND SIGN.
 - B** WHITE POLYCARB FACE WITH 1 COLOR RED TRANSLUCENT VINYL.
 - C** CABINET PAINTED BLACK.
 - D** REVELS PAINTED GREY.
 - E** RED LED BAR.
 - F** WHITE POLYCARB FACES WITH 2 COLORS RED AND GREEN TRANSLUCENT VINYL.
 - G** 21" X 81" RED MONOCHROME MESSAGE CENTER.
 - H** WHITE POLYCARB FACE WITH 2 COLORS RED AND BLACK TRANSLUCENT VINYL.
 - I** FORMED ALUMINUM CAP PAINTED GREY.
 - J** BRICK BLOCK BASE.
- SIGN IS ALL ILLUMINATED WITH WHITE LEDS.

Approved by: _____ Date: _____ Landlord: _____ Date: _____

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MAKE A STATEMENT!

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DESIGN

Drawing by: **MICHAEL V JOLIN**
 Sign Type: **GROUND SIGN.**
 Date Created: **5/22/2015**
 Last Modified: **5/22/2015**
 Scale:

SALES

Job Name: **PDQEasWasGro**
 Job Address: **3520 EAST WAHSHINGTON AVENUE MADISON WI, 53718**
 Salesperson: **BILL RUPP**
 Job Number: **#85173**

FILE

Revision Number: **REVISION #1.0**
 Job File Location:

COLOR KEY

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