

**CITY OF MASON AND VEVAY TOWNSHIP
JOINT PLANNING COMMISSION MEETING
780 Eden Road, Mason, MI 48854**

Tuesday, November 22, 2016

7:30 p.m.

Agenda

1. Call to Order
2. Roll Call
3. People from the Floor
4. Public Hearing
 - A. Special Use Permit – 652 Hull Road
Resolution: A Resolution Approving a Preliminary and Final Site Plan and Special Use Permit to Construct a New 16,680 Square Foot Commercial Building Located at 652 Hull Road
5. Adjournment

City of Mason

201 W. Ash St.
P.O. Box 370
Mason, MI 48854-0370
www.mason.mi.us



City Hall 517 676-9155
Police 517 676-2458
Fax 517 676-1330
TDD 1-800-649-3777

MEMORANDUM

TO: Mason and Vevay Township Joint Planning Commission

FROM: David E. Haywood, Zoning & Development Director 

SUBJECT: Site Plan Review & Special Use Permit – 652 Hull Road (Goodwill)

DATE: November 17, 2016

The applicant is requesting preliminary and final site plan approval and special use permit for a new 16,680 square foot commercial building for a Goodwill retail store at 652 Hull Road. The parcel is zoned M-2 General Manufacturing.

JOINT PLANNING COMMISSION:

The subject property is located within a geographical area that was conditionally transferred to the City of Mason from Vevay Township in 1989 under the authorization of Public Act 425. The Act allows for the conditional transfer of land between the cities and townships for the sharing of taxes and other revenues in exchange for certain services. Section 4.01 of the agreement requires that any application for a special use permit for property located within the 425 agreement area be reviewed by a Joint Planning Commission. The agreement requires that the commission be composed of four members of the Mason Planning Commission and three members of the Vevay Township Planning Commission. Section 94-142(d)(14) of the Mason Zoning Ordinance requires a special use permit for uses exceeding 15,000 square feet in area. Therefore, the application must be reviewed by the Joint Planning Commission.

LAND USE AND ZONING:

The surrounding land uses and zoning are as follows:

	Current Land Use	Zoning	Future Land Use
North	Commercial & Residential (vacant)	C-2 (General Commercial) AG (Single Family Agricultural)	Commercial
East	Industrial	M-2 (General Manufacturing)	Industrial
South	Public (Water Tower)	AG (Single Family Agricultural)	Public
West	Vevay Township & US 127 ROW	Vevay Township	Vevay Township

SITE PLAN REVIEW:

Plan Details:

The application indicates the hours of operation will be 9:30 a.m. to 8:00 p.m. Monday through Saturday, 11:00 a.m. to 6:00 p.m. Sunday.

The plans show what appears to be the Hull Road right-of-way. However, the right-of-way line is not labeled. Staff recommends approval with the condition that revised plans be provided that call out the Hull Road right-of-way.

Height, Bulk, Density, and Area Requirements:

The proposal meets the height, bulk, density and area requirements of the Mason Zoning Ordinance.

Off-Street Parking & Circulation:

The proposed site plan meets the parking lot, spacing and maneuvering aisle standards listed in Article IX of the Mason zoning ordinance.

The proposed lighting plan appears to meet the standards for light placement, pole height and intensity.

Retail establishments are required to provide one parking space for every 150 square feet of usable floor area. The site plan indicates that there is 9,776 square feet of usable floor area, which calculates to 66 required parking spaces. The site plan shows 109 total parking spaces. Section 94-241(i)(1)(f) gives the Planning Commission the authority to require that all parking areas in excess of 120% of the minimum of parking spaces required shall be constructed of pervious surfaces. Based on this standard the applicant would have to make all parking spaces in excess of 66 pervious. Staff recommends approval with the condition that a revised site plan be provided showing parking spaces in excess of 66 being pervious.

Section 94-176(f)(3) limits access drives to a single entrance for commercial properties. A second entrance may be authorized upon a finding that the applicant demonstrates that the projected trip generation necessitates additional access points and no feasible alternative exists. Approval is recommended with the condition that the applicant demonstrate the need for a second access entrance.

Landscaping:

Division 2 of Article VII and Table 100-4 of the Mason Zoning Ordinance requires a buffer zone A between the subject parcel and parcels zoned C-2 (General Commercial) and a buffer zone B between subject parcel and parcels zoned AG (Single Family Agricultural). Therefore, the northerly property should have a buffer zone A adjacent to the Meijer site, zone B adjacent to the vacant residential property to the north and City water tower to the south. Section 94-241(e)(6) gives the Planning Commission the authority to waive the landscaping requirements. Staff would suggest that given the location of the site, the joint planning commission waive the landscaping requirements adjacent to US127. Staff would also suggest that given the distance between the proposed development and the north property line adjacent to Meijer, that the

landscaping proposed be accepted. Similarly, the landscaping proposed for the south property line adjacent to the water tower also should be accepted. The only area that staff suggests any change is the location of the fence, that it be shifted east to deflect vehicle lights from shining at the residential property to the north in the event that the structure is occupied in the future. Staff recommends this as a condition of approval.

Section 94-241(c)(8) requires that one tree be planted for each 10,000 square feet of disturbed area of the site, or fraction thereof. At approximately 180,000 square feet of disturbed area, 18 trees are required to be planted in addition to the other normally required landscaping. Staff recommends approval with the condition that these additional trees be shown on the revised landscape plan.

Construction Schedule:

The applicant has not provided a construction schedule. Staff recommends approval with the condition that a construction schedule be provided with the revised site plan.

PUBLIC SERVICES AND FACILITIES:

Streets, Traffic, and Site Access:

Hull Road is a four-lane road in the vicinity of the site and is under the jurisdiction of the Ingham County Road Department (ICRD). The ICRD provided comment indicating that the following will need to be addressed prior to construction in the Hull Road right-of-way:

- Open cut installation of utilities will not be permitted
- Other improvements will need to meet ICRD standards for pavement and drive approach standards
- Sidewalk ramp across from Trillium drive should be removed
- The Type L driveway should be removed
- Curbing on Hull Road should be matched to existing
- The plans should include work zone traffic control

Staff recommends approval with the condition that a revised site plan be submitted that addresses the comments provided by the ICRD on November 10, 2016.

Water, Sanitary Sewer and Storm Water Management:

The Fire Chief has provided comment recommending that a fire hydrant be located on the west side of Hull Road near the property entrance. Approval is recommended with this condition.

The City Engineer has provided comments in his letter dated November 9, 2016. His comments include concurrence from the Public Works Director and are summarized as the following:

- Water main sizes and materials should be shown
- Work in the Hull Road right-of-way will require a permit from the ICRD
- A fire hydrant on the west side of Hull Road is recommended
- A single water main crossing Hull Road is recommended
- The “connection point” for sanitary sewer needs to be identified and meet City standards

- Storm water calculations need to be provided
- Storm water discharge into the Michigan Department of Transportation will require prior approval
- A storm water maintenance agreement will be required
- Water and sewer tap fees will be assessed
- A soil erosion permit from Ingham County will be required
- Driveway openings will be required to meet City Standards and require a ICRD permit
- The proposed pedestrian crossing will need ICRD approval

Approval is recommended that the applicant provide a revised site plan addressing the comments listed in the City Engineer's letter.

The utility plan shows sanitary sewer being extended to the site from the north and into the site as a public main. The section of main that turns west into the site is not acceptable to the City. Staff recommends that a revised site plan be provided that shows the sanitary sewer main location consistent with City policy. Coordination should be conducted between the applicant, the City Engineer, and the Public Works Director for the appropriate location of sanitary main and associated easement. Approval is recommended that the applicant coordinate with the City for the appropriate location of sanitary sewer main and public easement and a revised site plan be submitted to show the same.

Pursuant to City Council Resolution No. 2005-49, the City requires a written drainage facility maintenance agreement between the City and the property owner insuring that they will properly maintain their private storm water drainage system, bearing all expenses. This agreement is recommended as a condition of approval.

Additional Agency Comments:

The Fire Chief has provided comment that the overhang/drop-off canopy on the west side of the building restricts the bypass lane to 12 feet. NFPA 1 2006 18.2.3.4.1.1 requires that Fire Department access roads shall have an unobstructed width of not less than 20 feet. Approval is recommended with the condition that the access drive be widened to the satisfaction of the Mason Fire Chief.

Comments from the remaining agencies are attached. No additional concerns have been received regarding this site plan review at this time.

ANALYSIS:

It appears that the site and proposed use will comply with the site plan review standards listed in Sections 94-227 of the Code, provided the previously noted conditions are met.

In addition to these standards, Section 94-191(f) of the Mason Code provides the Basis of Determination for Special Use Permits. These standards must be met before a Special Use Permit can be approved. The standards and staff commentary regarding compliance follow:

- (1) *Be designed, constructed, operated, and maintained so as to be harmonious and appropriate in appearance with the existing or intended character of the general vicinity and that such a use will not change the essential character of adjacent property or the zoning district in which it is proposed.*

The location is currently zoned for commercial use. The use appears to be harmonious with the general surroundings and character of the immediate vicinity.

- (2) *Not be hazardous or disturbing to uses in the same general vicinity and will be a substantial improvement to property in the immediate vicinity and to the community as a whole.*

Provided the mitigating improvements listed in this staff report and accompanying resolution, staff is not aware of any additional conflicts of a hazardous or disturbing nature associated with the proposed use.

- (3) *Be served adequately by essential facilities and services, such as highways, streets, police and fire protection, drainage structures, refuse disposal, water and sewage facilities, and schools.*

The use is proposed in an area currently served by public water and planned for sanitary sewer extension.

- (4) *Not create additional requirements at public cost for public facilities and services.*

It does not appear that the proposed use will create additional public costs.

- (5) *Not involve uses, activities, processes, materials, and equipment or conditions of operation that will be detrimental to any person, property, or the general welfare by noise, fumes, glare, or odors.*

Staff is not aware of any conflicts of this nature.

- (6) *Not be located such that it will directly or indirectly have a substantial adverse impact on the natural resources of this city.*

Staff is not aware of any conflicts of this nature.

- (7) *Be in compliance with other applicable local, county, state, or federal rules and regulations.*

It appears that the proposed use is in compliance, provided the specified conditions of approval are met.

RECOMMENDATION:

The Mason and Vevay Township Joint Planning Commission approve the proposed resolution.

Attachments:

1. Resolution
2. Mason and Vevay Township 425 Agreement, Section 4.01 (excerpt)
3. Application, including lighting specifications
4. Agency Comments
 - a. City of Mason Chief of Police
 - b. City of Mason POTW Supervisor
 - c. City Engineer
 - d. Ingham County Road Department
 - e. City of Mason Fire Chief
5. Site Plan

Introduced:
Seconded:

**CITY OF MASON AND VEVAY TOWNSHIP
JOINT PLANNING COMMISSION RESOLUTION**

**A RESOLUTION APPROVING A PRELIMINARY AND FINAL SITE PLAN AND
SPECIAL USE PERMIT TO CONSTRUCT A NEW 16,680 SQUARE FOOT
COMMERCIAL BUILDING LOCATED AT 652 HULL ROAD**

November 22, 2016

WHEREAS, a request has been received from Goodwill Industries of Central Michigan's Heartland Inc. for preliminary and final site plan and special use permit approval to be allowed to construct a new commercial building at 652 Hull Road; and

WHEREAS, the subject property is further described as:

All that part of the southeast $\frac{1}{4}$ of the northeast $\frac{1}{4}$ of section 17, T2N, R1W, City of Mason, Ingham, County, Michigan. Lying east of Highway US-127 right-of-way, except the south 430 feet thereof and also except the north 150 feet of the east 240 feet of said southeast $\frac{1}{4}$ of the northeast $\frac{1}{4}$ of section 17, T2N, R1W, City of Mason, Ingham County, Michigan; and

WHEREAS, upon compliance with the conditions listed herein, the plans will comply with the site plan review standards listed in Section 94-227 of the Mason Code; and

WHEREAS, upon compliance with the conditions listed herein, the plans will comply with the special use permit basis of determination standards listed in Section 94-191(f) of the Mason Code; and

WHEREAS, approval is granted with the condition that the applicant shall submit a revised site plan with the following changes prior to final site plan approval:

- 1) The plan shall call out the limits of the Hull Road right-of-way, and
- 2) The plan shall show parking spaces in excess of 66 as pervious, and
- 3) The applicant demonstrate the projected trip generation necessitates the need for a second entrance on Hull Road, and
- 4) The landscape plan shall show the proposed fence extended eastward to block vehicular lights from being viewed by the adjacent residential property to the north, and
- 5) That the landscape plan shall show 18 additional trees; and
- 6) That a construction schedule be provided, and

- 7) That the site plan be revised to comply with the comments received from the Ingham County Road Department as expressed in their email of November 10, 2016; and
- 8) That the site plan be revised to include a fire hydrant as requested by the Fire Chief in his email of November 16, 2016; and
- 9) That the site plan be revised to comply with the comments by the City Engineer as expressed in his letter of November 9, 2016; and
- 10) The site plan shall be revised to show the sanitary sewer connection and be coordinated with the City Engineer and Public Works Director for appropriate location per City policy; and
- 11) The site plan shall show the access lane adjacent to the west side of the drop off overhang to have a minimum width of not less than 20 feet to the satisfaction of the Mason Fire Chief; and

WHEREAS, approval is granted with condition that the applicant provide an executed Drainage Facilities Maintenance Agreement prior to the issuance of an occupancy permit; and

NOW THEREFORE BE IT RESOLVED, that the City of Mason and Vevay Township Joint Planning Commission does hereby approve a Preliminary and Final Site Plan and Special Use Permit to construct a new 16,680 square foot commercial building located at 652 Hull Road based on the site plan dated October 10, 2016.

Yes ()

No ()

of this Agreement shall review the 425 Agreement every 5 (five) years and submit any recommendations for proposed modifications to the City Council and Township Board.

2.05 Covenant to Cooperate. The City and the Township hereby covenant and agree that they will cooperate with each other, and with any other agent or instrumentality of the City, the State or the Township performing or required to perform any action in connection with or pursuant to the terms of this Agreement, and will do all things necessary in a legally sufficient and expeditious manner to legally effectuate the transfer of the Property and cause the development of the Property in accordance with this Agreement.

ARTICLE III

PROPERTY DEVELOPMENT

4.01 Joint Planning. In considering and granting any required special use permit, the application shall be reviewed by a Joint Planning Commission composed of four (4) members of the Mason Planning Commission appointed by the Mayor and approved by the Mason City Council and the three (3) members of the Vevay Township Planning Commission appointed by the Township Supervisor and approved by the Township Board. An appeal from any decision of the Joint Planning Commission shall be decided by a joint meeting of the Mason City Council and the Vevay Township Board of Trustees, sitting "en banc". The Joint Planning Commission shall meet on call and will be staffed by the Building Official of the

City of Mason. Minutes of each meeting shall be taken by a Secretary appointed by Vevay Township, the cost of said service being equally split by the two jurisdictions.

4.02 Tax Increment Financing. ~~4.02~~ The City of Mason shall establish a local development finance authority (LDFA) pursuant to 1986 PA 281, and/or create or continue a Downtown Development Authority pursuant to 1975 PA 197 the initial boundaries of which shall include the territory conditionally transferred under PA 425. Of the 11 members appointed to the Board of the LDFA, one member will be appointed by the County Board of Commissioners, one member shall represent Lansing Community College, four members shall be appointed by the City of Mason, three members shall be appointed by the Township, and two members shall be appointed by the Mason Public School District. TIF revenues captured from eligible property shall be used for public facilities to serve eligible property within the TIF district and may include road facilities to and around the eligible property and other public facilities which are necessary to serve the eligible property whether or not located on that eligible property. The Development Plan and Tax Increment Financing Plan and any amendments thereto shall be approved by the Mason City Council and the Vevay Township Board of Trustees. Any tax revenues not required by the LDFA/DDA to finance public facilities to serve the eligible property within the District shall revert proportionally to the respective taxing jurisdictions, and reverted City of Mason tax revenues shall be

APPLICATION – SITE PLAN REVIEW/SPECIAL USE PERMIT

City of Mason

Planning Department • 201 W. Ash Street • Mason, MI 48854

Phone: 517/676-9155 • Fax: 517/676-1330

www.mason.mi.us



Applicant– Please check one of the following:

- Preliminary Site Plan Review
- Final Site Plan Review
- Special Use Permit*
- Administrative Review

* includes Preliminary Site Plan Review

PLANNING DEPARTMENT USE ONLY

Application Received: _____

Tax ID: _____

Fee: _____

Receipt #: _____

I. APPLICANT INFORMATION

Name Ken Bauer

Organization Goodwill Industries of Central Michigan's Heartland, Inc.

Address 4820 Wayne Road

Telephone Number 269-782-6500 Facsimile Number 888-452-5968

Interest in Property (owner, tenant, option, etc.) option

Note: If applicant is anyone other than owner, request must be accompanied by a signed letter of authorization from the owner.

II. PROPERTY INFORMATION

Owner Frederick Farm LLC, Allen S Telephone Number _____

Property Address 652 Hull Road, Mason, MI 48854

Legal Description: If in a Subdivision: Subdivision Name N/A Lot Number N/A

If Metes and Bounds (can be provided on separate sheet): on attached plans

APPLICANT CERTIFICATION

By execution of this application, the person signing represents that the information provided and the accompanying documentation is, to the best of his/her knowledge, true and accurate. In addition, the person signing represents that he or she is authorized and does hereby grant a right of entry to City officials for the purpose of inspecting the premises and uses thereon to verify compliance with the terms and conditions of any Special Use Permit and/or Site Plan approval issued as a result of this application.

Signature Mark Peters Date 10/10/16

III. **REQUEST DESCRIPTION**

A. **Written Description** – Please use this section to describe the use or uses proposed. Attach additional pages, if necessary.

The existing use of the property is vacant (and - The proposed use is retail and work force development.

B. **Available Services**

Public Water YES NO
Public Sanitary Sewer YES NO

Paved Road (Asphalt or Concrete) YES NO
Public Storm Sewer YES NO

C. **Estimate the Following**

Traffic Generated 50-60 vph, peak hour

Total Employees 26 Shifts 3

Population Increase 0

Employees in Peak Shift 12-15

Hours of Operation 9:30 AM to 8:00 PM
Monday through Saturday

Total Bldg. Area Proposed 16,680 sq

Parking Spaces Provided 109

D. **Project Phasing** 11:00am to 6:00pm
Sunday

This project will be completed in: One Phase Multiple Phases – Total No. of Phases: _____

Note: The phases of construction for multi-phase projects must be shown on the site plan

IV. **APPLICATION MATERIALS**

The following are checklists of items that generally must be submitted with applications for Preliminary Site Plan Review, Final Site Plan Review, and Special Use Permits. Applicants should review Articles VI and VII of Chapter 94 of the Mason Code for a complete listing of application requirements. All site plan drawings must comply with the requirements of Section 94-226(d) of the Zoning Ordinance. Incomplete applications will not be processed.

- Completed application form
- 20 copies of site plan drawings is larger than 11" x 17" (30 copies for Special Use Permits)
- 1 – 11" x 17" copy of the site plan
- Plans submitted on CD (Commercial only)
- Legal description
- Proof of ownership/owner authorization
- Construction schedule for proposed project
- Construction calculations for utilities
- Fee (see below)
- Any other information deemed necessary

Application Fee – all requests must be accompanied by a fee, as established by the City Council. The fee schedule for Preliminary Site Plan Reviews, Final Site Plan Reviews, and Special Use Permits is as follows (As of October 16, 2006):

<u>Administrative Reviews</u>	\$70.00
<u>Preliminary Site Plan Reviews</u>	\$200.00
<u>Final Site Plan Review</u>	\$100.00
<u>Special Use Permits</u> (includes preliminary site plan review)	\$275.00
<u>Engineering Review</u>	\$220.00*

*Two-hour minimum fee for projects increasing demand on public utilities. Actual fees incurred are billed to applicant upon completion of review.

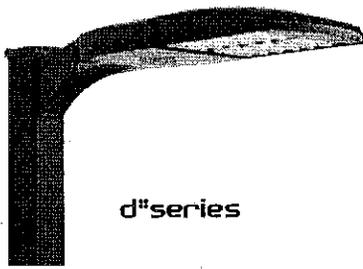
V. APPLICATION DEADLINES

Preliminary Site Plan/Special Use Permit Review – Applications for Preliminary Site Plan Review may be submitted at any time. Complete applications must be received a minimum four (4) weeks prior to a Planning Commission meeting to be placed on the agenda. Upon receipt of a complete application, a public hearing will be scheduled for the next regularly scheduled meeting (for Special Use Permits only). The Planning Commission has the final authority to approve, approve with conditions or deny an application for Preliminary Site Plan/Special Use Permit Review. The Planning Department staff will issue a letter to the applicant advising of any changes or revisions that may be necessary prior to making application for Final Site Plan Review.

Final Site Plan Review – Complete applications must be received a minimum of four (4) weeks prior to a Planning Commission meeting to be placed on an agenda. The Planning Commission has the final authority to approve, approve with conditions or deny an application for Final Site Plan Review. Planning Commission meetings are held on the second Tuesday after the first Monday of every month, unless the Tuesday is a Township recognized holiday, in which case the meeting is held on the following day (Wednesday).

VI. STAFF REPORT

The Planning Department Staff will prepare a report to the Planning Commission regarding an application for Preliminary Site Plan Review, Final Site Plan Review or Special Use Permit. The report will explain the request and review whether it complies with the zoning standards of the Mason Code. Staff will present the findings of that report during the Planning Commission meeting. An applicant who wishes to obtain one (1) copy of that report, at no cost, prior to the meeting must provide a written request to the Planning Department. The report is generally complete on the Friday before the meeting and can be mailed to the applicant or picked up by the applicant in the Planning Department.



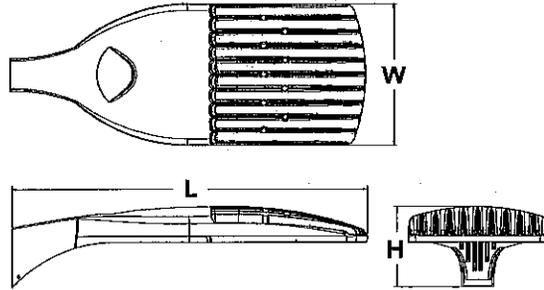
D-Series Size 1 LED Area Luminaire

d"series



Specifications

EPA:	1.01 ft ² (0.09 m ²)
Length:	33" (83.8 cm)
Width:	13" (33.0 cm)
Height:	7-1/2" (19.0 cm)
Weight (max):	27 lbs (12.2 kg)



Catalog Number

Notes

MASON GOODWILL STORE

Type

S3, S3HS, S5

File the following or contact your distributor to see all referenced elements.

Introduction

The modern styling of the D-Series is striking yet unobtrusive - making a bold, progressive statement even as it blends seamlessly with its environment.

The D-Series distills the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire. The outstanding photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. It is ideal for replacing up to 750W metal halide in pedestrian and area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information

EXAMPLE: DSX1 LED 60C 1000 40K T3M MVOLT SPA DDBXD

DSX1LED

Part	LEDs	Driver/Current	Color Temperature	Distribution	Voltage	Mounting		
DSX1 LED	Forward optics	530 530 mA	30K 3000 K	T1S Type I short	T5S Type V short	MVOLT ⁵	Shipped included	
	30C 30 LEDs (one engine)	700 700 mA	40K 4000 K	T2S Type II short	T5M Type V medium	120 ³		SPA Square pole mounting
	40C 40 LEDs (two engines)	1000 1000 mA (1A) ⁷	50K 5000 K	T2M Type II medium	T5W Type V wide	208 ⁵		RPA Round pole mounting
	60C 60 LEDs (two engines)		AMBPC Amber phosphor converted ³	T3S Type III short	BLC Backlight control ^{2,4}	240 ⁵		WBA Wall bracket
	Rotated optics¹			T3M Type III medium	LCCO Left corner cutoff ^{2,4}	277 ⁵		SPUMBA Square pole universal mounting adaptor ⁷
	60C 60 LEDs (two engines)			T4M Type IV medium	RCCO Right corner cutoff ^{2,4}	347 ⁶		RPUMBA Round pole universal mounting adaptor ⁷
			TFTM Forward throw medium		480 ⁶	Shipped separately		
			T5VS Type V very short			KMA8 DDBXD U Mast arm mounting bracket adaptor (specify finish) ⁸		

Control options

Shipped installed

PER	NEMA twist-lock receptacle only (no controls) ²
PER5	Five-wire receptacle only (no controls) ^{3,16}
PER7	Seven-wire receptacle only (no controls) ^{3,16}
DMG	0-10V dimming driver (no controls) ¹¹
DCR	Dimmable and controllable via ROAM [®] (no controls) ¹²
DS	Dual switching ^{13,14}
PIR	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 5ft ¹⁵
PIRH	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 5ft ¹⁵
PIR1FC3V	Bi-level, motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1ft ¹⁵

PIRH1FC3V	Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1ft ¹⁵
BL30	Bi-level switched dimming, 30% ^{16,16}
BL50	Bi-level switched dimming, 50% ^{16,16}
PNMTDD3	Part night, dim till dawn ¹⁷
PNMT5D3	Part night, dim 5 hrs ¹⁷
PNMT6D3	Part night, dim 6 hrs ¹⁷
PNMT7D3	Part night, dim 7 hrs ¹⁷
FAO	Field adjustable output ¹⁸

Other options

HS	House-side shield ¹⁹
WTB	Utility terminal block ²⁰
SF	Single fuse (120, 277, 347V) ²¹
DF	Double fuse (208, 240, 480V) ²¹
L90	Left rotated optics ²²
R90	Right rotated optics ²²
BS	Bird spikes ²³

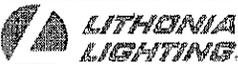
Shipped installed	DBBXD Dark bronze
	DBLXD Black
	DNAXD Natural aluminum
	DWHXD White
	DDBTXD Textured dark bronze
	DBLTXD Textured black
	DNATXD Textured natural aluminum
	DWHGXD Textured white

Controls & Shields

DL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ²⁴
DL1347F 1.5 CULJU	Photocell - SSL twist-lock (347V) ²⁴
DL1480F 1.5 CULJU	Photocell - SSL twist-lock (480V) ²⁴
DSH0RT SDX U	Shirting cap ²⁴
DSX1HS 30C U	House-side shield for 30 LED unit ¹⁹
DSX1HS 40C U	House-side shield for 40 LED unit ¹⁹
DSX1HS 60C U	House-side shield for 60 LED unit ¹⁹
PUMBA DDBXD U*	Square and round pole universal mounting bracket (specify finish) ²⁵
KMA8 DDBXD U	Mast arm mounting bracket adaptor (specify finish) ⁸
DSX1BS U	Bird spikes

NOTES

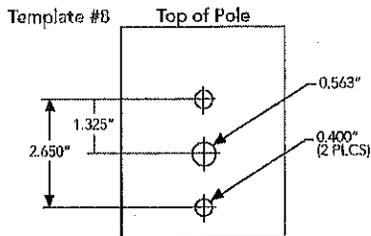
- Rotated optics available with 60C only.
- Not available AMBPC.
- Only available with 530mA or 700mA.
- Not available with HS.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120V, 208V, 240V or 277V options only when ordering with fusing (SF, DF options).
- Not available with single board, 530mA product (30C 530 or 60C 530 DS). Not available with BL30, BL50 or PNMT options.
- Existing drilled pole only. Available as a separate combination accessory; for retrofit use only: PUMBA (finish) U; 1.5 G vibration load rating per ANCI C136.31.
- Must order fixture with SPA option. Must be ordered as a separate accessory; see Accessories information. For use with 2-3/8" mast arm (not included).
- Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Not available with DS option.
- If ROAM[®] node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls. Not available with DCR. Node with integral dimming.
- DMG option for 347V or 480V requires 1000mA.
- Specifies a ROAM[®] enabled luminaire with 0-10V dimming capability; PER option required. Additional hardware and services required for ROAM[®] deployment; must be purchased separately. Call 1-800-442-6745 or email: sales@roamservices.net. N/A with PIR options, DS, PER5, PER7, BL30, BL50 or PNMT options. Node without integral dimming.
- Requires 40C or 60C. Provides 50/50 luminaire operation via two independent drivers on two separate circuits. N/A with PER, DCR, WTB, PIR or PIRH.
- Requires an additional switched circuit.
- PIR and PIR1FC3V specify the Sensor Switch 58GR-1-0-CLP control; PIRH and PIRH1FC3V specify the Sensor Switch 58GR-4-0DP control; see Outdoor Control Technical Guide for details. Dimming driver standard. Not available with PER5 or PER7. Ambient sensor disabled when ordered with DCR. Separate on/off required.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7 or PNMT options. Not available with PIR1FC3V or PIRH1FC3V.
- Dimming driver standard. MVOLT only. Not available with 347V, 480V, DCR, DS, PER5, PER7, BL30 or BL50. Not available with PIR1FC3V or PIRH1FC3V. Separate on/off required.
- Dimming driver standard. Not available with PER5, PER7, DMG, DCR, DS, BL30, BL50 or PNMT, PIR, PIRH, PIR1FC3V or PIRH1FC3V.
- Not available with BLC, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
- WTB not available with DS.
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Available with 60 LEDs (60C option) only.
- Also available as a separate accessory; see accessories information.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item from Acuity Brands Controls.
- For retrofit use only.



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Drilling



DSX1 shares a unique drilling pattern with the AERIS™ family. Specify this drilling pattern when specifying poles, per the table below.

DM19AS	Single unit	DM29AS	2 at 90°*
DM28AS	2 at 180°	DM39AS	3 at 90°*
DM49AS	4 at 90°*	DM32AS	3 at 120°**

Example: SSA 20 4C DM19AS DBBXD

Visit Lithonia Lighting's POLES CENTRAL to see our wide selection of poles, accessories and educational tools.

*Round pole top must be 3.25" O.D. minimum.

**For round pole mounting (RPA) only.

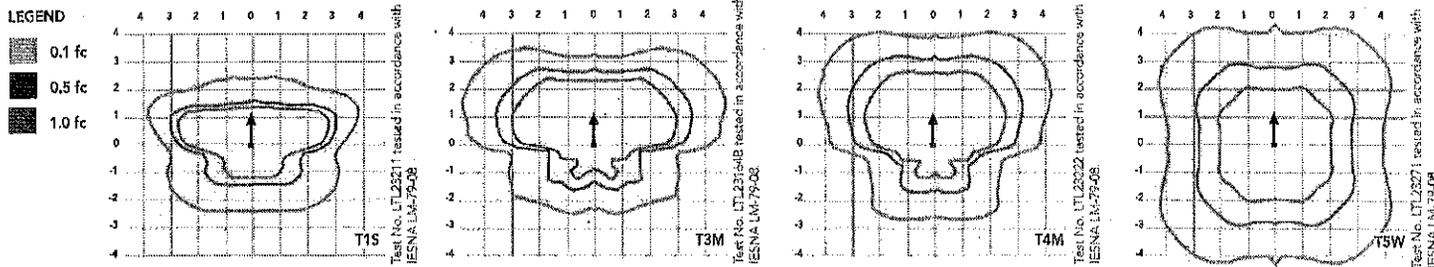
Tenon Mounting Slipfitter**

Height	Single Unit	2 at 90°	2 at 180°	3 at 90°	3 at 120°	4 at 90°
2-3/8"	AST20-190	AST20-280	AST20-290	AST20-320	AST20-390	AST20-490
2-7/8"	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Area Size 1 homepage.

Isofootcandle plots for the DSX1 LED 60C 1000 40K. Distances are in units of mounting height (20').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.02
10°C / 50°F	1.01
20°C / 68°F	1.00
25°C / 77°F	1.00
30°C / 86°F	1.00
40°C / 104°F	0.99

Electrical Load

WIRE GAUGE	WIRE TYPE	WIRE SIZE	AMPERAGE (A)					
			120	208	240	277	347	480
30	530	52	0.52	0.30	0.26	0.23	--	--
		68	0.68	0.39	0.34	0.30	0.24	0.17
		105	1.03	0.59	0.51	0.45	0.36	0.26
40	530	68	0.67	0.39	0.34	0.29	0.23	0.17
		89	0.89	0.51	0.44	0.38	0.31	0.22
		138	1.35	0.78	0.67	0.58	0.47	0.34
60	530	99	0.97	0.56	0.48	0.42	0.34	0.24
		131	1.29	0.74	0.65	0.56	0.45	0.32
		209	1.98	1.14	0.99	0.86	0.69	0.50

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-00-09 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

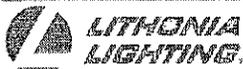
Operating Hours	Lumen Maintenance Factor
1000	0.95
2000	0.90
3000	0.85
4000	0.80
5000	0.75
6000	0.70
7000	0.65
8000	0.60
9000	0.55
10000	0.50

Performance Data

Lumen Output

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

Forward Optics																							
LEDs	BPC (lm/ft²)	System Watt	Dist. (ft)	30° (60°/40°/30°)					20° (40°/20°/15°)					10° (20°/10°/10°)					ASBP (15°/10°/10°)				
				LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	LM79	
30C (30 LEDs)	530 mA	52 W	T1S	5,948	1	0	1	114	6,387	1	0	1	123	6,427	1	0	1	124	3,640	1	0	1	70
			T2S	6,132	1	0	1	118	6,585	2	0	2	127	6,626	2	0	2	127	3,813	1	0	1	73
			T2M	5,992	1	0	2	115	6,434	1	0	2	124	6,475	1	0	2	125	3,689	1	0	1	71
			T3S	5,985	1	0	1	115	6,427	1	0	2	124	6,467	1	0	2	124	3,770	1	0	1	73
			T3M	6,039	1	0	2	116	6,485	1	0	2	125	6,525	1	0	2	125	3,752	1	0	1	72
			T4M	6,121	1	0	2	118	6,573	1	0	2	126	6,614	1	0	2	127	3,758	1	0	1	72
			TF1M	6,030	1	0	2	116	6,475	1	0	2	125	6,515	1	0	2	125	3,701	1	0	1	71
			TSVS	6,370	2	0	0	123	6,840	2	0	0	132	6,883	2	0	0	132	3,928	2	0	0	76
			TSS	6,417	2	0	0	123	6,890	2	0	0	133	6,933	2	0	0	133	3,881	2	0	0	75
			TSM	6,428	3	0	1	124	6,902	3	0	1	133	6,945	3	0	1	134	3,930	2	0	1	76
			TSW	6,334	3	0	1	122	6,801	3	0	1	131	6,844	3	0	1	132	3,820	3	0	1	73
			BLC	4,735	1	0	1	91	5,085	1	0	2	98	5,116	1	0	1	98					
			LCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
			RCCO	4,600	1	0	2	88	4,940	1	0	2	95	4,971	1	0	2	96					
			T1S	7,554	1	0	1	111	8,112	2	0	2	119	8,163	2	0	2	120	4,561	1	0	1	67
			T2S	7,789	2	0	2	115	8,364	2	0	2	123	8,416	2	0	2	124	4,777	1	0	1	70
			T2M	7,610	1	0	2	112	8,172	2	0	2	120	8,223	2	0	2	121	4,622	1	0	2	68
			T3S	7,601	1	0	2	112	8,162	2	0	2	120	8,213	2	0	2	121	4,724	1	0	1	69
	T3M	7,670	1	0	2	113	8,236	2	0	2	121	8,288	2	0	2	122	4,701	1	0	2	69		
	T4M	7,774	1	0	2	114	8,348	2	0	2	123	8,400	2	0	2	124	4,709	1	0	2	69		
	TF1M	7,658	1	0	2	113	8,223	1	0	2	121	8,275	1	0	2	122	4,638	1	0	2	68		
	TSVS	8,090	2	0	0	119	8,687	3	0	1	128	8,742	3	0	1	129	4,922	2	0	0	72		
	TSS	8,150	2	0	0	120	8,751	3	0	0	129	8,806	3	0	0	130	4,863	2	0	0	72		
	TSM	8,164	3	0	1	120	8,767	3	0	2	129	8,821	3	0	2	130	4,924	3	0	1	72		
	TSW	8,044	3	0	1	118	8,638	3	0	2	127	8,692	3	0	2	128	4,787	3	0	1	70		
	BLC	6,028	1	0	2	89	6,473	1	0	2	95	6,514	1	0	2	96							
	LCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93							
	RCCO	5,856	1	0	2	86	6,289	1	0	2	92	6,328	1	0	2	93							
	T1S	10,331	2	0	2	98	11,094	2	0	2	106	11,163	2	0	2	106							
	T2S	10,652	2	0	2	101	11,438	2	0	2	109	11,510	2	0	2	110							
	T2M	10,408	2	0	2	99	11,176	2	0	3	106	11,246	2	0	3	107							
	T3S	10,395	2	0	2	99	11,163	2	0	2	106	11,233	2	0	2	107							
	T3M	10,490	2	0	2	100	11,264	2	0	2	107	11,335	2	0	2	108							
	T4M	10,632	2	0	2	101	11,417	2	0	2	109	11,488	2	0	2	109							
	TF1M	10,473	2	0	2	100	11,247	2	0	3	107	11,317	2	0	3	108							
	TSVS	11,064	3	0	1	105	11,881	3	0	1	113	11,955	3	0	1	114							
TSS	11,145	3	0	1	106	11,968	3	0	1	114	12,043	3	0	1	115								
TSM	11,165	3	0	2	106	11,989	4	0	2	114	12,064	4	0	2	115								
TSW	11,001	3	0	2	105	11,813	4	0	2	113	11,887	4	0	2	113								
BLC	7,960	1	0	2	76	8,548	1	0	2	81	8,601	1	0	2	82								
LCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80								
RCCO	7,734	1	0	2	74	8,305	1	0	2	79	8,357	1	0	2	80								



Performance Data

Lumen Output

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

Forward Optics																							
Lens	Drive Current (mA)	System Watt	Dist. Type	30° (200° N, 70° CR)				60° (400° N, 70° CR)				90° (800° N, 70° CR)				Misc. Beam (as noted)							
				Beam	CR	CR	CR	Beam	CR	CR	CR	Beam	CR	CR	CR	Beam	CR	CR	CR				
40C (40 LEDs)	530 mA	68 W	T1S	7,861	1	0	1	116	8,441	2	0	2	124	8,494	2	0	2	125	4,794	1	0	1	71
			T2S	8,105	2	0	2	119	8,704	2	0	2	128	8,758	2	0	2	129	5,021	1	0	1	74
			T2M	7,920	2	0	2	116	8,504	2	0	2	125	8,557	2	0	2	126	4,858	1	0	2	71
			T3S	7,910	1	0	2	116	8,494	2	0	2	125	8,547	2	0	2	126	4,966	1	0	1	73
			T3M	7,982	2	0	2	117	8,571	2	0	2	126	8,625	2	0	2	127	4,941	1	0	2	73
			T4M	8,090	1	0	2	119	8,687	2	0	2	128	8,741	2	0	2	129	4,950	1	0	2	73
			TF1M	7,969	1	0	2	117	8,558	2	0	2	126	8,611	2	0	2	127	4,875	1	0	2	72
			TSVS	8,419	2	0	0	124	9,040	3	0	1	133	9,097	3	0	1	134	5,174	2	0	0	76
			T5S	8,481	2	0	0	125	9,107	3	0	1	134	9,164	3	0	1	135	5,111	2	0	0	75
			T5M	8,496	3	0	1	125	9,123	3	0	2	134	9,180	3	0	2	135	5,175	3	0	1	76
			T5W	8,371	3	0	2	123	8,989	3	0	2	132	9,045	3	0	2	133	5,031	3	0	1	74
			BLC	6,255	1	0	2	92	6,717	1	0	2	99	6,759	1	0	2	99					
			LCCO	6,077	1	0	2	89	6,526	1	0	2	96	6,566	1	0	2	97					
			RCCO	6,077	1	0	2	89	6,526	1	0	2	96	6,566	1	0	2	97					
			T1S	9,984	2	0	2	112	10,721	2	0	2	120	10,788	2	0	2	121	6,014	1	0	1	68
			T2S	10,294	2	0	2	116	11,054	2	0	2	124	11,123	2	0	2	125	6,299	2	0	2	71
			T2M	10,059	2	0	2	113	10,801	2	0	3	121	10,869	2	0	3	122	6,094	2	0	2	68
			T3S	10,046	2	0	2	113	10,788	2	0	2	121	10,855	2	0	2	122	6,229	1	0	2	70
	T3M	10,137	2	0	2	114	10,886	2	0	2	122	10,954	2	0	2	123	6,198	2	0	2	70		
	T4M	10,275	2	0	2	115	11,033	2	0	2	124	11,102	2	0	2	125	6,209	1	0	2	70		
	TF1M	10,122	2	0	2	114	10,869	2	0	2	122	10,937	2	0	2	123	6,115	1	0	2	69		
	TSVS	10,693	3	0	1	120	11,482	3	0	1	129	11,554	3	0	1	130	6,490	2	0	0	73		
	T5S	10,771	3	0	1	121	11,566	3	0	1	130	11,639	3	0	1	131	6,411	2	0	0	72		
	T5M	10,790	3	0	2	121	11,587	4	0	2	130	11,659	4	0	2	131	6,492	3	0	1	73		
	T5W	10,632	3	0	2	119	11,417	4	0	2	128	11,488	4	0	2	129	6,311	3	0	2	71		
	BLC	7,963	1	0	2	89	8,551	1	0	2	96	8,605	1	0	2	97							
	LCCO	7,736	1	0	2	87	8,308	1	0	2	93	8,359	1	0	2	94							
	RCCO	7,736	1	0	2	87	8,308	1	0	2	93	8,359	1	0	2	94							
	T1S	13,655	2	0	2	99	14,663	3	0	3	106	14,754	3	0	3	107							
	T2S	14,079	2	0	2	102	15,118	3	0	3	110	15,212	3	0	3	110							
	T2M	13,756	2	0	3	100	14,772	3	0	3	107	14,864	3	0	3	108							
	T3S	13,739	2	0	2	100	14,754	2	0	2	107	14,846	3	0	3	108							
	T3M	13,864	2	0	2	100	14,888	3	0	3	108	14,981	3	0	3	109							
	T4M	14,052	2	0	2	102	15,090	3	0	3	109	15,184	3	0	3	110							
	TF1M	13,842	2	0	3	100	14,864	2	0	3	108	14,957	2	0	3	108							
	TSVS	14,623	3	0	1	106	15,703	4	0	1	114	15,801	4	0	1	115							
T5S	14,731	3	0	1	107	15,818	3	0	1	115	15,917	3	0	1	115								
T5M	14,757	4	0	2	107	15,846	4	0	2	115	15,945	4	0	2	116								
T5W	14,540	4	0	2	105	15,614	4	0	2	113	15,711	4	0	2	114								
BLC	10,516	1	0	2	76	11,292	1	0	2	82	11,363	1	0	2	82								
LCCO	10,216	2	0	3	74	10,971	2	0	3	80	11,039	2	0	3	80								
RCCO	10,216	2	0	3	74	10,971	2	0	3	80	11,039	2	0	3	80								

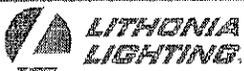


Performance Data

Lumen Output

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

Forward Optics																							
LEDs	Drive Current (mA)	System Watts	Dist. Type	60C (60 LEDs)				90C (90 LEDs)				120C (120 LEDs)				150C (150 LEDs)							
				Lumens				Lumens				Lumens				Lumens							
				B	U	CS	PR	B	U	CS	PR	B	U	CS	PR	B	U	CS	PR				
60C (60 LEDs)	530 mA	99 W	T1S	11,569	2	0	2	117	12,423	2	0	2	125	12,501	2	0	2	126	7,167	2	0	2	72
			T2S	11,928	2	0	2	120	12,809	3	0	3	129	12,889	3	0	3	130	7,507	2	0	2	76
			T2M	11,655	2	0	2	118	12,516	2	0	3	126	12,594	2	0	3	127	7,263	2	0	2	73
			T3S	11,641	2	0	2	118	12,500	2	0	2	126	12,579	2	0	2	127	7,424	2	0	2	75
			T3M	11,747	2	0	2	119	12,614	2	0	2	127	12,693	2	0	2	128	7,387	2	0	2	75
			T4M	11,906	2	0	2	120	12,785	2	0	2	129	12,865	2	0	2	130	7,400	2	0	2	75
			IFTM	11,728	2	0	2	118	12,594	2	0	3	127	12,673	2	0	3	128	7,288	1	0	2	74
			T5VS	12,390	3	0	1	125	13,305	3	0	1	134	13,388	3	0	1	135	7,734	3	0	1	78
			T5S	12,481	3	0	1	126	13,402	3	0	1	135	13,486	3	0	1	136	7,641	3	0	0	77
			T5M	12,503	3	0	2	126	13,426	4	0	2	136	13,510	4	0	2	136	7,737	3	0	2	78
			T5W	12,320	4	0	2	124	13,229	4	0	2	134	13,312	4	0	2	134	7,522	3	0	2	76
			BLC	9,212	1	0	2	93	9,892	1	0	2	100	9,954	1	0	2	101					
	LCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98							
	RCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98							
	700 mA	131 W	T1S	14,694	2	0	2	112	15,779	3	0	3	120	15,877	3	0	3	121	8,952	2	0	2	68
			T2S	15,150	3	0	3	116	16,269	3	0	3	124	16,370	3	0	3	125	9,377	2	0	2	72
			T2M	14,803	2	0	3	113	15,896	3	0	3	121	15,995	3	0	3	122	9,072	2	0	2	69
			T3S	14,785	2	0	2	113	15,877	3	0	3	121	15,976	3	0	3	122	9,273	2	0	2	71
			T3M	14,919	2	0	2	114	16,021	3	0	3	122	16,121	3	0	3	123	9,227	2	0	2	70
			T4M	15,122	2	0	2	115	16,238	3	0	3	124	16,340	3	0	3	125	9,243	2	0	2	71
			IFTM	14,896	2	0	3	114	15,996	2	0	3	122	16,096	2	0	3	123	9,103	2	0	2	69
			T5VS	15,736	3	0	1	120	16,898	4	0	1	129	17,004	4	0	1	130	9,661	3	0	1	74
			T5S	15,852	3	0	1	121	17,022	4	0	1	130	17,129	4	0	1	131	9,544	3	0	1	73
			T5M	15,880	4	0	2	121	17,052	4	0	2	130	17,159	4	0	2	131	9,665	3	0	2	74
			T5W	15,647	4	0	2	119	16,802	4	0	2	128	16,907	4	0	2	129	9,395	4	0	2	72
			BLC	11,728	1	0	2	90	12,594	1	0	2	96	12,672	3	0	3	97					
	LCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94							
	RCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94							
	1000 mA	209 W	T1S	20,095	3	0	3	96	21,579	3	0	3	103	21,714	3	0	3	104					
			T2S	20,720	3	0	3	99	22,249	3	0	3	106	22,388	3	0	3	107					
			T2M	20,245	3	0	3	97	21,740	3	0	3	104	21,876	3	0	3	105					
			T3S	20,220	3	0	3	97	21,713	3	0	3	104	21,849	3	0	3	105					
			T3M	20,404	3	0	3	98	21,910	3	0	4	105	22,047	3	0	4	105					
			T4M	20,681	3	0	3	99	22,207	3	0	4	106	22,346	3	0	4	107					
			IFTM	20,372	3	0	3	97	21,876	3	0	4	105	22,013	3	0	4	105					
			T5VS	21,521	4	0	1	103	23,110	4	0	1	111	23,254	4	0	1	111					
T5S			21,679	4	0	1	104	23,280	4	0	1	111	23,425	4	0	1	112						
T5M			21,717	4	0	2	104	23,321	5	0	3	112	23,466	5	0	3	112						
T5W			21,399	4	0	3	102	22,979	5	0	3	110	23,122	5	0	3	111						
BLC			15,487	2	0	2	74	16,630	2	0	2	80	16,734	2	0	3	80						
LCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								
RCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								



Performance Data

Lumen Output

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

190 and 190° Rotated Optics

LENS	D (in)	System Voltage (V)	DMS	3000 K (70 CRI)						4000 K (70 CRI)						5000 K (70 CRI)							
				LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08	LM79-08			
60C (60 LEDs)	530 mA	99 W	T1S	11,569	2	0	2	117	12,423	2	0	2	125	12,501	2	0	2	126	7,167	2	0	2	72
			T2S	11,928	2	0	2	120	12,809	3	0	3	129	12,889	3	0	3	130	7,507	2	0	2	76
			T2M	11,655	2	0	2	118	12,516	2	0	3	126	12,594	2	0	3	127	7,263	2	0	2	73
			T3S	11,641	2	0	2	118	12,500	2	0	2	126	12,579	2	0	2	127	7,424	2	0	2	75
			T3M	11,747	2	0	2	119	12,614	2	0	2	127	12,693	2	0	2	128	7,387	2	0	2	75
			T4M	11,906	2	0	2	120	12,785	2	0	2	129	12,865	2	0	2	130	7,400	2	0	2	75
			FTM	11,728	2	0	2	118	12,594	2	0	3	127	12,673	2	0	3	128	7,288	1	0	2	74
			T5VS	12,390	3	0	1	125	13,305	3	0	1	134	13,388	3	0	1	135	7,734	3	0	1	78
			T5S	12,481	3	0	1	126	13,402	3	0	1	135	13,486	3	0	1	136	7,641	3	0	0	77
			T5M	12,503	3	0	2	126	13,426	4	0	2	136	13,510	4	0	2	136	7,737	3	0	2	78
			T5W	12,320	4	0	2	124	13,229	4	0	2	134	13,312	4	0	2	134	7,522	3	0	2	76
			BLC	9,212	1	0	2	93	9,892	1	0	2	100	9,954	1	0	2	101					
			LCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98					
			RCCO	8,950	1	0	2	90	9,611	2	0	2	97	9,671	2	0	2	98					
			T1S	14,694	2	0	2	112	15,779	3	0	3	120	15,877	3	0	3	121	8,952	2	0	2	68
	T2S	15,150	3	0	3	116	16,269	3	0	3	124	16,370	3	0	3	125	9,377	2	0	2	72		
	T2M	14,803	2	0	3	113	15,896	3	0	3	121	15,995	3	0	3	122	9,072	2	0	2	69		
	T3S	14,785	2	0	2	113	15,877	3	0	3	121	15,976	3	0	3	122	9,273	2	0	2	71		
	T3M	14,919	2	0	2	114	16,021	3	0	3	122	16,121	3	0	3	123	9,227	2	0	2	70		
	T4M	15,122	2	0	2	115	16,238	3	0	3	124	16,340	3	0	3	125	9,243	2	0	2	71		
	FTM	14,896	2	0	3	114	15,996	2	0	3	122	16,096	2	0	3	123	9,103	2	0	2	69		
	T5VS	15,736	3	0	1	120	16,898	4	0	1	129	17,004	4	0	1	130	9,661	3	0	1	74		
	T5S	15,852	3	0	1	121	17,022	4	0	1	130	17,129	4	0	1	131	9,544	3	0	1	73		
	T5M	15,880	4	0	2	121	17,052	4	0	2	130	17,159	4	0	2	131	9,665	3	0	2	74		
	T5W	15,647	4	0	2	119	16,802	4	0	2	128	16,907	4	0	2	129	9,395	4	0	2	72		
	BLC	11,728	1	0	2	90	12,594	1	0	2	96	12,672	3	0	3	97							
	LCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94							
	RCCO	11,394	2	0	3	87	12,235	2	0	3	93	12,311	2	0	3	94							
	T1S	20,095	3	0	3	96	21,579	3	0	3	103	21,714	3	0	3	104							
	T2S	20,720	3	0	3	99	22,249	3	0	3	106	22,388	3	0	3	107							
T2M	20,245	3	0	3	97	21,740	3	0	3	104	21,876	3	0	3	105								
T3S	20,220	3	0	3	97	21,713	3	0	3	104	21,849	3	0	3	105								
T3M	20,404	3	0	3	98	21,910	3	0	4	105	22,047	3	0	4	105								
T4M	20,681	3	0	3	99	22,207	3	0	4	106	22,346	3	0	4	107								
FTM	20,372	3	0	3	97	21,876	3	0	4	105	22,013	3	0	4	105								
T5VS	21,521	4	0	1	103	23,110	4	0	1	111	23,254	4	0	1	111								
T5S	21,679	4	0	1	104	23,280	4	0	1	111	23,425	4	0	1	112								
T5M	21,717	4	0	2	104	23,321	5	0	3	112	23,466	5	0	3	112								
T5W	21,399	4	0	3	102	22,979	5	0	3	110	23,122	5	0	3	111								
BLC	15,487	2	0	2	74	16,630	2	0	2	80	16,734	2	0	3	80								
LCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								
RCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								
T1S	20,095	3	0	3	96	21,579	3	0	3	103	21,714	3	0	3	104								
T2S	20,720	3	0	3	99	22,249	3	0	3	106	22,388	3	0	3	107								
T2M	20,245	3	0	3	97	21,740	3	0	3	104	21,876	3	0	3	105								
T3S	20,220	3	0	3	97	21,713	3	0	3	104	21,849	3	0	3	105								
T3M	20,404	3	0	3	98	21,910	3	0	4	105	22,047	3	0	4	105								
T4M	20,681	3	0	3	99	22,207	3	0	4	106	22,346	3	0	4	107								
FTM	20,372	3	0	3	97	21,876	3	0	4	105	22,013	3	0	4	105								
T5VS	21,521	4	0	1	103	23,110	4	0	1	111	23,254	4	0	1	111								
T5S	21,679	4	0	1	104	23,280	4	0	1	111	23,425	4	0	1	112								
T5M	21,717	4	0	2	104	23,321	5	0	3	112	23,466	5	0	3	112								
T5W	21,399	4	0	3	102	22,979	5	0	3	110	23,122	5	0	3	111								
BLC	15,487	2	0	2	74	16,630	2	0	2	80	16,734	2	0	3	80								
LCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								
RCCO	15,046	2	0	3	72	16,157	2	0	3	77	16,258	2	0	3	78								

FEATURES & SPECIFICATIONS

INTENDED USE

The sleek design of the D-Series Size 1 reflects the embedded high performance LED technology. It is ideal for many commercial and municipal applications, such as parking lots, plazas, campuses, and streetscapes.

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65). Low EPA (1.01 ft²) for optimized pole wind loading.

FINISH

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

OPTICS

Precision-molded proprietary acrylic lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) or optional 3000 K (70 minimum CRI) or 5000 K (70 CRI) configurations. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of 30, 40 or 60 high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L99/100,000 hours at

25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV or 6kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Included mounting block and integral arm facilitate quick and easy installation. Stainless steel bolts fasten the mounting block securely to poles and walls, enabling the D-Series Size 1 to withstand up to a 3.0 G vibration load rating per ANSI C136.31. The D-Series Size 1 utilizes the AERIS™ series pole drilling pattern (template #8). Optional terminal block, tool-less entry, and NEMA photocontrol receptacle are also available.

LISTINGS

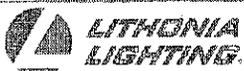
UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP65 rated. Rated for -40°C minimum ambient. U.S. Patent No. D672,492 S. International patent pending.

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

WARRANTY

5-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

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





D-Series Size 1 LED Wall Luminaire



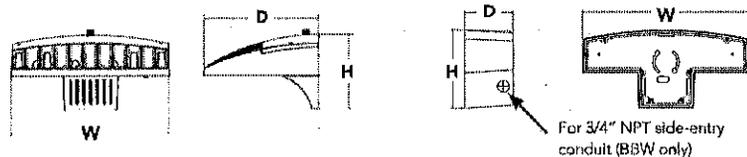
d"series

Specifications Luminaire

Width:	13-3/4" (34.9 cm)	Weight:	12 lbs (5.4 kg)
Depth:	10" (25.4 cm)		
Height:	6-3/8" (16.2 cm)		

Back Box (BBW, ELCW)

Width:	13-3/4" (34.9 cm)	BBW Weight:	5 lbs (2.3 kg)
Depth:	4" (10.2 cm)	ELCW Weight:	10 lbs (4.5 kg)
Height:	6-3/8" (16.2 cm)		



Catalog Number	
Notes	MASON GOODWILL STORE
Type	SA

Introduction

The D-Series Wall luminaire is a stylish, fully integrated LED solution for building-mount applications. It features a sleek, modern design and is carefully engineered to provide long-lasting, energy-efficient lighting with a variety of optical and control options for customized performance.

With an expected service life of over 20 years of nighttime use and up to 74% in energy savings over comparable 250W metal halide luminaires, the D-Series Wall is a reliable, low-maintenance lighting solution that produces sites that are exceptionally illuminated.

Ordering Information

EXAMPLE: DSKW1 LED 20C 1000 40K T3M MVOLT DBBTD

DSKW1 LED

Series	LEDs	Drive Current	Color Temperature	Distribution	Voltage	Mounting	Control Options
DSKW1 LED	10C 10 LEDs (one engine)	350 350 mA 530 530 mA 700 700 mA	30K 3000 K 40K 4000 K 50K 5000 K	T2S Type II Short T2M Type II Medium T3S Type III Short T3M Type III Medium T4M Type IV Medium	MVOLT ¹ 120 ¹ 208 ¹ 240 ¹ 277 ¹ 347 ² 480 ²	Shipped Included (blank) Surface mounting bracket BBW Surface-mounted back box (for conduit entry) ³	Shipped installed PE Photoelectric cell, button type ⁴ DMG 0-10V dimming driver (no controls) PIR 180° motion/ambient light sensor, <15' mtg ht ⁵ PIRH 180° motion/ambient light sensor, 15-30' mtg ht ⁵ PIR1FC3V Motion/ambient sensor, 8-15' mounting height, ambient sensor enabled at 1fc ⁶ PIRH1FC3V Motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc ⁶ ELCW Emergency battery backup (includes external component enclosure) ⁸
	20C 20 LEDs (two engines)	1000 1000 mA (1A)	AMBPC Amber phosphor converted	TTFM Forward Throw Medium ASYDF Asymmetric diffuse			

Other Options

Shipped installed		Shipped separately ⁸		Finish (optional)	
SF Single fuse (120, 277 or 347V) ⁷	BSW Bird-deterrent spikes	DBBXD Dark bronze	DSSXD Sandstone	DWHGXD Textured white	
DF Double fuse (208, 240 or 480V) ⁷	WG Wire guard	DBLXD Black	DBBTD Textured dark bronze	DSSTXD Textured sandstone	
HS House-side shield ⁸	VG Vandal guard	DNAXD Natural aluminum	DBLBD Textured black		
SPD Separate surge protection ⁹	DDL Diffused drop lens	DWHXD White	DNATXD Textured natural aluminum		

Accessories

Ordered and shipped separately.

DSKWHSU	House-side shield (one per light engine)
DSKWBSWU	Bird-deterrent spikes
DSKWVGU	Wire guard accessory
DSKWVGU	Vandal guard accessory

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options), or photocontrol (PE option).
- Only available with 20C, 700mA or 1000mA. Not available with PIR or PIRH.
- Back box ships installed on fixture. Cannot be field installed. Cannot be ordered as an accessory.
- Photocontrol (PE) requires 120, 208, 240, 277 or 347 voltage option. Not available with motion/ambient light sensors (PIR or PIRH).
- PIR and PIR1FC3V specifies the Sensor Switch SSGR-10-ODP control; PIRH specifies the Sensor Switch SSGR-6-ODP control; see Motion Sensor Guide for details. Includes ambient light sensor. Not available with "PE" option (button type photocell). Dimming driver standard. Not available with 20 LED/1000 mA configuration (DSKW1 LED 20C, 1000).
- Cold weather (-20C) rated. Not compatible with conduit entry applications. Not available with BBW mounting option. Not available with fusing. Not available with 347 or 480 voltage options. Emergency components located in back box housing. Emergency mode IES files located on product page at www.lithonia.com.
- Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option. Not available with ELCW.
- Also available as a separate accessory; see Accessories information.
- See the electrical section on page 3 for more details.



Performance Data

Lumen Output

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

LEDs	Dr. Area (sq. in.)	System Volt.	Type	10C					20C					30C					40C					
				U1	U2	U3	U4	U5	U1	U2	U3	U4	U5	U1	U2	U3	U4	U5	U1	U2	U3	U4	U5	
10C (10 LEDs)	350mA	14W	T2S	1,415	0	0	1	101	1,520	0	0	1	109	1,529	0	0	1	109	894	0	0	1	64	
			T2M	1,349	0	0	1	96	1,449	0	0	1	104	1,458	0	0	1	104	852	0	0	1	61	
			T3S	1,400	0	0	1	100	1,503	0	0	1	107	1,512	0	0	1	108	884	0	0	1	63	
			T3M	1,386	0	0	1	99	1,488	0	0	1	106	1,497	0	0	1	107	876	0	0	1	63	
			T4M	1,358	0	0	1	97	1,458	0	0	1	104	1,467	0	0	1	105	858	0	0	1	61	
			TFTM	1,411	0	0	1	101	1,515	0	0	1	108	1,525	0	0	1	109	892	0	0	1	64	
		ASYDF	1,262	0	0	1	90	1,355	1	0	1	97	1,363	1	0	1	97	797	0	0	1	57		
		T2S	2,054	1	0	1	103	2,205	1	0	1	110	2,219	1	0	1	111	1,264	0	0	1	63		
		T2M	1,957	1	0	1	98	2,102	1	0	1	105	2,115	1	0	1	106	1,205	0	0	1	60		
		T3S	2,031	0	0	1	102	2,181	0	0	1	109	2,195	0	0	1	110	1,250	0	0	1	63		
		T3M	2,010	1	0	1	101	2,159	1	0	1	108	2,172	1	0	1	109	1,237	0	0	1	62		
		T4M	1,970	1	0	1	99	2,115	1	0	1	106	2,128	0	0	1	106	1,212	0	0	1	61		
	TFTM	2,047	0	0	1	102	2,198	0	0	1	110	2,212	0	0	1	111	1,260	0	0	1	63			
	ASYDF	1,830	1	0	1	92	1,966	1	0	1	98	1,978	1	0	1	99	1,127	0	0	1	56			
	T2S	2,623	1	0	1	97	2,816	1	0	1	104	2,834	1	0	1	105	1,544	0	0	1	57			
	T2M	2,499	1	0	1	93	2,684	1	0	1	99	2,701	1	0	1	100	1,472	0	0	1	55			
	T3S	2,593	1	0	1	96	2,785	1	0	1	103	2,802	1	0	1	104	1,527	0	0	1	57			
	T3M	2,567	1	0	1	95	2,757	1	0	1	102	2,774	1	0	1	103	1,512	0	0	1	56			
	T4M	2,515	1	0	1	93	2,701	1	0	1	100	2,718	1	0	1	101	1,481	0	0	1	55			
	TFTM	2,614	1	0	1	97	2,807	1	0	1	104	2,825	1	0	1	105	1,539	0	0	1	57			
	ASYDF	2,337	1	0	1	87	2,510	1	0	1	93	2,526	1	0	1	94	1,376	0	0	1	51			
	T2S	3,685	1	0	1	92	3,957	1	0	1	99	3,982	1	0	1	100	2,235	1	0	1	58			
	T2M	3,512	1	0	1	88	3,771	1	0	1	94	3,795	1	0	1	95	2,130	1	0	2	55			
	T3S	3,644	1	0	1	91	3,913	1	0	1	98	3,938	1	0	1	98	2,210	1	0	2	57			
	T3M	3,607	1	0	1	90	3,874	1	0	1	97	3,898	1	0	1	97	2,187	1	0	2	56			
	T4M	3,534	1	0	1	88	3,795	1	0	1	95	3,819	1	0	1	95	2,143	1	0	2	55			
	TFTM	3,674	1	0	1	92	3,945	1	0	1	99	3,969	1	0	1	99	2,228	1	0	2	57			
	ASYDF	3,284	1	0	1	82	3,527	1	0	1	88	3,549	1	0	1	89	1,991	1	0	2	51			
	20C (20 LEDs)	350mA	24W	T2S	2,820	1	0	1	118	3,028	1	0	1	126	3,047	1	0	1	127	1,777	1	0	1	74
				T2M	2,688	1	0	1	112	2,886	1	0	1	120	2,904	1	0	1	121	1,693	1	0	1	71
				T3S	2,789	1	0	1	116	2,995	1	0	2	125	3,013	1	0	2	126	1,757	0	0	1	73
				T3M	2,761	1	0	1	115	2,964	1	0	2	124	2,983	1	0	2	124	1,739	1	0	1	72
				T4M	2,705	1	0	1	113	2,904	1	0	2	121	2,922	1	0	2	122	1,704	1	0	1	71
				TFTM	2,811	1	0	1	117	3,019	1	0	2	126	3,038	1	0	2	127	1,771	0	0	1	74
			ASYDF	2,513	1	0	1	105	2,699	1	0	2	112	2,716	1	0	2	113	1,584	1	0	1	66	
			T2S	4,079	1	0	1	113	4,380	1	0	1	122	4,408	1	0	1	122	2,504	1	0	1	70	
T2M			3,887	1	0	1	108	4,174	1	0	1	116	4,200	1	0	1	117	2,387	1	0	1	66		
T3S			4,034	1	0	1	112	4,332	1	0	1	120	4,359	1	0	1	121	2,477	1	0	1	69		
T3M			3,993	1	0	1	111	4,288	1	0	1	119	4,315	1	0	1	120	2,451	1	0	2	68		
T4M			3,912	1	0	2	109	4,201	1	0	2	117	4,227	1	0	1	117	2,402	1	0	1	67		
TFTM		4,066	1	0	1	113	4,367	1	0	1	121	4,394	1	0	1	122	2,496	1	0	1	69			
ASYDF		3,635	1	0	2	101	3,904	1	0	2	108	3,928	1	0	2	109	2,232	1	0	1	62			
T2S		5,188	1	0	1	110	5,571	1	0	1	119	5,606	1	0	1	119	3,065	1	0	1	65			
T2M		4,945	1	0	1	105	5,310	1	0	1	113	5,343	1	0	1	114	2,921	1	0	1	62			
T3S		5,131	1	0	1	109	5,510	1	0	2	117	5,544	1	0	2	118	3,031	1	0	1	64			
T3M		5,079	1	0	2	108	5,454	1	0	2	116	5,488	1	0	2	117	3,000	1	0	1	64			
T4M		4,976	1	0	2	106	5,343	1	0	2	114	5,377	1	0	2	114	2,939	1	0	1	63			
TFTM		5,172	1	0	2	110	5,554	1	0	2	118	5,589	1	0	2	119	3,055	1	0	1	65			
ASYDF		4,624	1	0	2	98	4,966	1	0	2	106	4,997	1	0	2	106	2,732	1	0	1	58			
700mA		47W	T2S	7,205	1	0	1	97	7,736	1	0	1	105	7,785	1	0	1	105	4,429	1	0	1	61	
			T2M	6,866	1	0	2	93	7,373	1	0	2	100	7,419	1	0	2	100	4,221	1	0	2	58	
			T3S	7,124	1	0	2	96	7,650	1	0	2	103	7,698	1	0	2	104	4,380	1	0	2	60	
			T3M	7,052	1	0	2	95	7,736	1	0	2	105	7,620	1	0	2	103	4,335	1	0	2	59	
			T4M	6,910	1	0	2	93	7,420	1	0	2	100	7,466	1	0	2	101	4,248	1	0	2	58	
			TFTM	7,182	1	0	2	97	7,712	1	0	2	104	7,760	1	0	2	105	4,415	1	0	2	60	
		ASYDF	6,421	1	0	2	87	6,895	2	0	2	93	6,938	2	0	2	94	3,947	1	0	2	54		



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Average Ambient Temperature (°C)	Average Ambient Temperature (°F)	Relative Lumen Output
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	1.00
40°C	104°F	0.98

Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the DSXW1 LED 20C 1000 platform in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	Lumen Maintenance Factor (LLF)
10,000	0.95
20,000	0.90
30,000	0.85
40,000	0.80
50,000	0.75
60,000	0.70
70,000	0.65
80,000	0.60
90,000	0.55
100,000	0.50

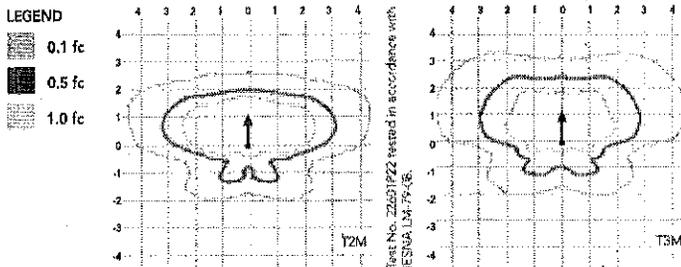
Electrical Load

Ambient Temperature (°C)	Power (W)	Voltage (V)	Current (A)					
			120V	208V	240V	277V	347V	480V
10C	350	14 W	0.13	0.07	0.06	0.06	-	-
	530	20 W	0.19	0.11	0.09	0.08	-	-
	700	27 W	0.25	0.14	0.13	0.11	-	-
	1000	40 W	0.37	0.21	0.19	0.16	-	-
20C	350	24 W	0.23	0.13	0.12	0.10	-	-
	530	36 W	0.33	0.19	0.17	0.14	-	-
	700	47 W	0.44	0.25	0.22	0.19	0.15	0.11
	1000	74 W	0.69	0.40	0.35	0.30	0.23	0.17

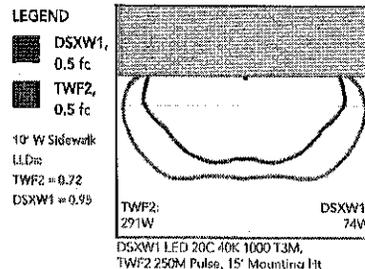
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's D-Series Wall Size 1 homepage.

Isofootcandle plots for the DSXW1 LED 20C 1000 40K. Distances are in units of mounting height (15').



Distribution overlay comparison to 250W metal halide.



Options and Accessories



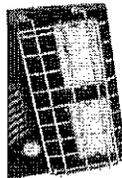
T3M (left), ASYDF (right) lenses



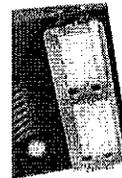
HS - House-side shields



BSW - Bird-deterrent spikes



WG - Wire guard



VG - Vandal guard



DDL - Diffused drop lens

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the D-Series Wall Size 1 make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Two-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance. The LED driver is mounted to the door to thermally isolate it from the light engines for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants (IP65).

FINISH

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

OPTICS

Precision-molded, proprietary acrylic lenses provide multiple photometric distributions tailored specifically to building mounted applications. Light engines are available in 3000 K (70 min. CRI), 4000 K (70 min. CRI) or 5000 K (70 min. CRI) configurations.

ELECTRICAL

Light engine(s) consist of 10 high-efficacy LEDs mounted to a metal-core circuit board to maximize heat dissipation and promote long life (L86/100,000 hrs at 25°C). Class 1 electronic drivers have a

power factor >90%, THD <20%, and a minimum 2.5KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C Low (per ANS/IEEE C62.41.2).

INSTALLATION

Included universal mounting bracket attaches securely to any 4" round or square outlet box for quick and easy installation. Luminaire has a slotted gasket wireway and attaches to the mounting bracket via corrosion-resistant screws.

LISTINGS

CSA certified to U.S. and Canadian standards. Rated for -40°C minimum ambient.

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

WARRANTY

Five-year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms-and-conditions.asp.

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



Lighting Facts Labels

OLWX1 LED 13W 40K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1271
Watts	14
Lumens per Watt (Efficacy)	90

Color Accuracy Color Rendering Index (CRI)	76
---	----

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 13W 40K XXX XX XXX
Type: Luminaire - Other

OLWX1 LED 13W 50K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1289
Watts	13.6
Lumens per Watt (Efficacy)	94

Color Accuracy Color Rendering Index (CRI)	83
---	----

Light Color
Correlated Color Temperature (CCT) **5000 (Daylight)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 13W 50K XXX XX XXX
Type: Luminaire - Other

OLWX1 LED 20W 40K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1854
Watts	21.77
Lumens per Watt (Efficacy)	85

Color Accuracy Color Rendering Index (CRI)	76
---	----

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 20W 40K XXX XX XXX
Type: Luminaire - Other

OLWX1 LED 20W 50K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	1861
Watts	22.15
Lumens per Watt (Efficacy)	84

Color Accuracy Color Rendering Index (CRI)	81
---	----

Light Color
Correlated Color Temperature (CCT) **5070 (Daylight)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 20W 50K XXX XX XXX
Type: Luminaire - Other

OLWX1 LED 40W 40K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	4027
Watts	39.81
Lumens per Watt (Efficacy)	101

Color Accuracy Color Rendering Index (CRI)	70
---	----

Light Color
Correlated Color Temperature (CCT) **4000 (Bright White)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 40W 40K XXX XX XXX
Type: Luminaire - Other

OLWX1 LED 40W 50K XXX XX XXX

LED lighting facts
A Program of the U.S. DOE

Light Output (Lumens)	4079
Watts	36.9
Lumens per Watt (Efficacy)	110

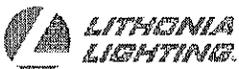
Color Accuracy Color Rendering Index (CRI)	72
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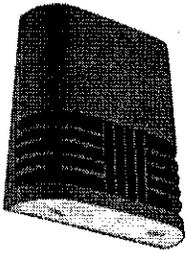
Light Color
Correlated Color Temperature (CCT) **5116 (Daylight)**

2700K 3000K 4000K 6500K

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

Registration Number: NEMA-UNY9 (02/10/2014)
Model Number: OLWX1 LED 40W 50K XXX XX XXX
Type: Luminaire - Other





OLWX1 LED LED Wall Luminaire

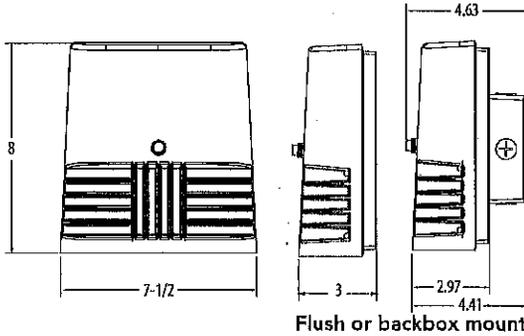


Catalog Number	
Notes	MASON GOODWILL STORE
Type	SB

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Specifications

Width:	7-1/2" (19 cm)
Height:	8" (20.3 cm)
Depth:	3" (7.62 cm)
Weight:	5 lbs (2.27 kg)



Introduction

As versatile as it is efficient, the OLWX1 is designed to replace up to 250W metal halide while saving over 87% in energy costs. It combines multiple mounting options with the latest generation of LEDs for a wall pack luminaire that converts to a whole lot more. Whether you are mounting it to a recessed junction box, conduit/through wiring, as an up light, as a down light, or as a flood light – the OLWX1 has you covered.

Ordering Information

EXAMPLE: OLWX1 LED 20W 50K

OLWX1 LED

Series	Performance Package	Color Temperature	Voltage	Controls	Finish
OLWX1 LED	13W 13 watts	40K 4000 K ¹	(blank) MVOLT ²	(blank) None	(blank) Dark bronze
	20W 20 watts	50K 5000 K	120 120V ³	PE 120V button photocell ^{1,3}	
	40W 40 watts		347 347V		

Accessories

Ordered and shipped separately.

OLWX1TS	Slipfitter – size 1
OLWX1YK	Yoke – size 1
OLWX1THK	Knuckle – size 1

NOTES

- 1 Not available with 347V option.
- 2 MVOLT driver operates on any line voltage from 120-277V (50/60Hz).
- 3 Specify 120V when ordering with photocell (PE option).

FEATURES & SPECIFICATIONS

INTENDED USE

The versatility of the OLWX1 LED combines a sleek, low-profile wall pack design and high-output LEDs to provide an energy efficient, low maintenance LED wall pack suitable for replacing up to 250W metal halide fixtures. Available flood light mounting accessories convert the OLWX1 LED into a highly efficient flood light.

OLWX1 LED is ideal for outdoor applications such as building perimeters, loading areas, driveways and sign and building flood lighting.

CONSTRUCTION

Rugged cast-aluminum housing with textured dark bronze polyester powder paint for lasting durability. Integral heat sinks optimize thermal management through conductive and convective cooling. LEDs are protected behind a glass lens. Housing is sealed against moisture and environmental contaminants (IP65).

OPTICS

High-performance LEDs behind clear glass for maximum light output. Light engines are available in 4000K and 5000K CCTs. See Lighting Facts label and photometry reports for specific fixture performance.

ELECTRICAL

Light engine consists of 1 high-efficiency Chip On Board (COB) LED with integrated circuit board mounted directly to the housing to maximize heat dissipation and promote long life (L73/100,000 hours at 25°C). Electronic drivers have a power factor >90% and THD <20% and a minimum 2.5kV surge rating. Flood light mounting accessories include an additional 6kV surge protection device.

INSTALLATION

Easily mounts to recessed junction boxes with the included wall mount bracket, or for surface mounting and conduit entry - with the included junction box with five 1/2" threaded conduit entry hubs. Flood light mounting accessories (sold separately) include knuckle, integral slipfitter and yoke mounting options. Each flood mount accessory comes with a top visor and vandal guard. Luminaire may be wall or ground mounted in downward or upward orientation.

LISTINGS

UL Listed to U.S. and Canadian safety standards for wet locations. Rated for -40° C minimum ambient. Tested in accordance with IESNA LM-79 and LM-80 standards. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five-year limited warranty. Full warranty terms located at www.acuitybrands.com/Customers/Resource/terms_and_conditions.asp.

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



Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts.

Fixture Model Number	CCT	System Watts	Lumens	lm/W	B	U	G	CRI
OLWX1 LED 13W 40K	4000 K	14 W	1,271	91	1	0	0	>70
OLWX1 LED 13W 50K	5000 K	14 W	1,289	92	1	0	0	>80
OLWX1 LED 20W 40K	4000 K	22 W	1,854	84	1	0	0	>70
OLWX1 LED 20W 50K	5000 K	22 W	1,860	84	1	0	0	>80
OLWX1 LED 40W 40K	4000 K	39 W	4,027	101	2	0	0	>70
OLWX1 LED 40W 50K	5000 K	37 W	4,079	110	2	0	0	>70

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

	0°C	10°C	20°C	25°C	30°C	40°C
13W	1.06	1.03	1.01	1.00	0.99	0.96
20W	1.06	1.04	1.01	1.00	0.99	0.96
40W	1.07	1.04	1.01	1.00	0.99	0.96

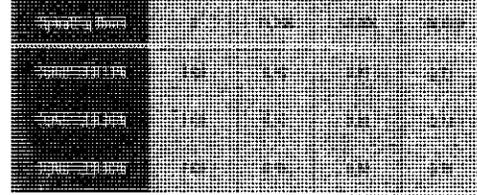
Electrical Load

Fixture Model Number	Rated Power (watts)	Input current at given input voltage (amps)				
		120V	208V	240V	277V	347V
OLWX1 LED 13W 40K	14 W	0.12	0.07	0.06	0.06	0.04
OLWX1 LED 13W 50K	14 W	0.12	0.07	0.06	0.06	0.04
OLWX1 LED 20W 40K	22 W	0.20	0.12	0.10	0.09	0.06
OLWX1 LED 20W 50K	22 W	0.20	0.12	0.10	0.09	0.06
OLWX1 LED 40W 40K	39 W	0.37	0.21	0.19	0.16	0.11
OLWX1 LED 40W 50K	37 W	0.37	0.21	0.19	0.16	0.11

Projected LED Lumen Maintenance

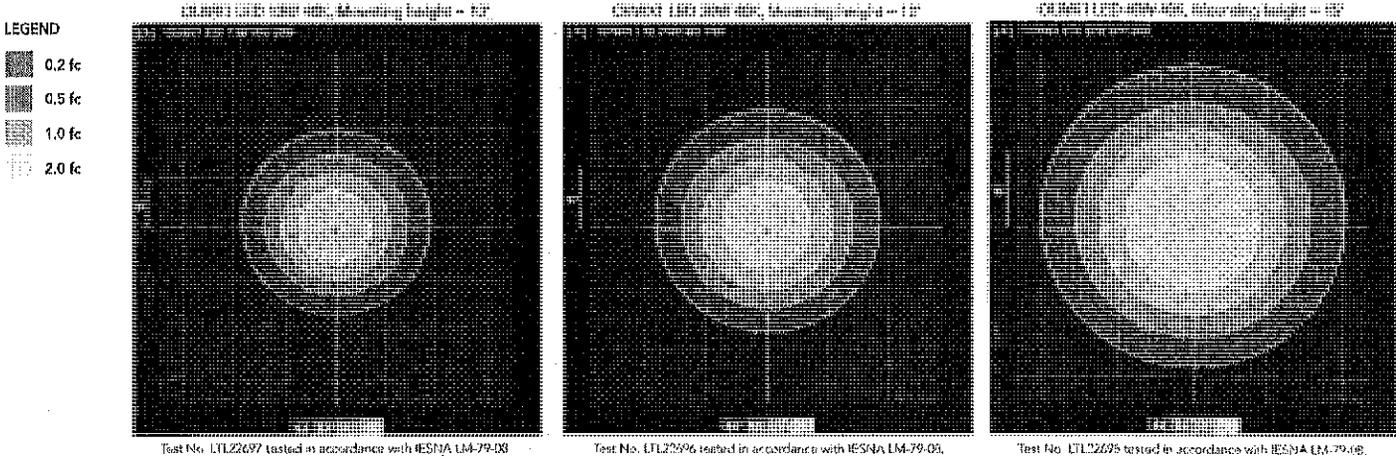
Data references the extrapolated performance projections in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

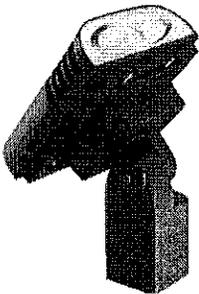


Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting OLWX1 LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards



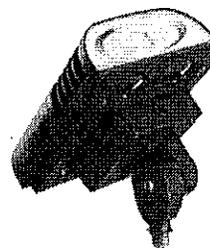
Accessories



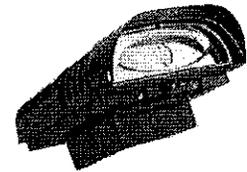
OLWX1TS
Slipfitter - size 1



OLWX1YK
Yoke - size 1

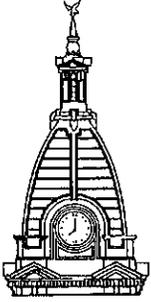


OLWX1THK
Knuckle - size 1



Top Visor and Vandal Guard
included with accessories





Mason Police Department

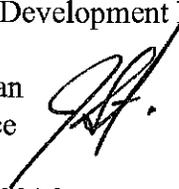
201 W. Ash St.
P.O. Box 370
Mason, MI 48854-0370

JOHN STRESSMAN
Chief of Police

Office: (517) 676-2458
Fax: (517) 244-9024
MASON_PD@ingham.org

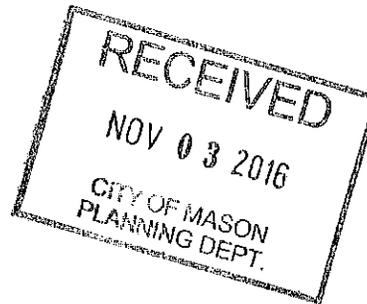
MEMORANDUM

To: David Haywood
Planning and Development Director

From: John Stressman
Chief of Police 

Date: November 2, 2016

Ref: Special Use Permit
652 Hull Road, Mason



I have reviewed the 652 Hull special use permit site plan and have no comments at this time.

If you have any questions, please contact me.

David Haywood

From: Sam Bibler
Sent: Thursday, November 03, 2016 7:22 AM
To: David Haywood
Subject: 652 Hull Rd Special Use Permit

David, I reviewed the site plan of the proposed building at 652 Hull Rd. I do not have any concerns with the sanitary sewer. It looks like a detention area is going to be used for some of the stormwater runoff. Will there be a maintenance agreement attached to this stormwater detention area?

Sam Bibler
City of Mason
POTW / MS4 Superintendent
517-676-1166 ext 202



Wolverine Engineers & Surveyors, Inc.

312 North Street • Mason, Michigan 48854 • 517.676.9200 • Fax 517.676.9396

November 9, 2016

Mr. David E. Haywood, AICP – Zoning & Development Director
City of Mason
201 W. Ash Street
Mason, MI 48854

RE: 652 Hull Road – Goodwill Industries of Central Michigan's Heartland

Dear Mr. Haywood:

At your request and in conjunction with Mr. Ken Baker, DPW Director, we have reviewed the site plan as provided for the proposed Goodwill Industries of Central Michigan's Heartland located at 652 Hull Road. The plans as provided to our office consisted of fourteen (14) plan sheets as prepared by Tower Pinkster and dated October 10, 2016.

In general, the plans propose the construction of an approximately 16,680 square foot retail space with associated parking on the west side of Hull Road near Trillium Drive.

Based upon our review we offer the following comments:

Water Main:

A 12-inch water main is located on the east side of Hull Road. An extension of a domestic and a fire protection water main from said water main is proposed. No sizes are provided for either of these water services. In addition, it appears that the installation methodology will be by an open cut trench across Hull Road. All work within this portion of Hull Road will require permits and approvals from the Ingham County Road Department (ICRD). It is recommended that this utility extension be revised to include pipe sizes and materials.

It is recommended that a fire hydrant be installed on the western side of Hull Road as a part of this project. The City of Mason Fire Chief should confirm if a single hydrant will be acceptable.

The designer should consider the extension of a single water main from the east side of Hull Road. Domestic water service to the building can be provided from the fire protection line.

Mr. Haywood
November 9, 2016
Page 2 of 3

Sanitary Sewer:

The Site Notes on Plan Sheet C 101 indicate that the location of the point of connection to the existing sanitary sewer is "TBD" (to be determined). This connection point will need to be determined and plans resubmitted for review. No additional comments regarding sanitary sewer can be offered at this time.

Storm Sewer:

The proposed construction appears to direct the storm water internally toward proposed catch basins with a detention area situated along the westerly property line. Further, it appears that the detention basin discharge is into Michigan Department of Transportation (MDOT) right-of-way. The detention pond discharge will require the concurrence of MDOT prior to a recommendation of site plan approval.

There were no storm water calculations provided.

Once the design has been finalized a storm water maintenance agreement will need to be provided to the City in accordance with the City Ordinances and standards.

Other Site Items:

Water and sanitary sewer tap fees will be determined at a later date.

A soil erosion permit will be required from the Office of the Ingham County Drain Commissioner.

Two (2) driveways are proposed to extend onto Hull Road. These drive openings will need to conform to the City's commercial driveway standards which includes ten (10) inches of concrete from the edge of the travelled way to the right-of-way line. In addition, all work within the Hull Road right-of-way will require the appropriate permits from the Ingham County Road Department.

Sidewalk is proposed across the frontage of the subject property with what appears to be an ADA ramp to cross Hull Road at Trillium Drive. This pedestrian crossing location will need to be reviewed and approved by the ICRD.

At this time we would recommend the plans be revised to address the missing utility and storm water components and resubmitted for review.

S:\PROJECTS\2016\16-0121\CORRESP\OUTGOING\D HAYWOOD REVIEW LTR 11916.DOCX

Mr. Haywood
November 9, 2016
Page 3 of 3

We appreciate the opportunity to provide our review comments to you. We received one (1) set of plans for review and have retained said set for our files.

As always, if you have any questions or additional comments, please do not hesitate to call.

Sincerely,

WOLVERINE ENGINEERS & SURVEYORS, INC.



Donald B. Heck, P.E.

DBH:ood

cc: Ken Baker, Director – City of Mason DPW
Tom Silsby, Superintendent – City of Mason DPW

David Haywood

From: Peterson, Robert [rpeterson@ingham.org]
Sent: Thursday, November 10, 2016 10:47 AM
To: David Haywood
Cc: Moyer, Brenda
Subject: 652 Hull Road - Goodwill Industries

David:

We received the preliminary plans for the 652 Hull Road - Goodwill Industries site development. The Ingham County Road Department has the following preliminary plan questions / comments:

1. The plans indicate that installation of the site utility services are to cross Hull Road utilizing open cut installation methods. We don't allow open cut methods unless there is a VERY good reason for said method. Most all services for this size building can be installed by directional bore or aerially.
2. The Hull Road pavement is in relatively good shape and is to remain that way. Therefore, concrete curb & gutter removal and replacement is to be performed without damaging the existing roadway pavement. We will require that notes be added to the plans to instruct the contractor to protect the existing roadway pavement. Said note would be similar to "SAWCUT AND REMOVE EXISTING CURB & GUTTER WITHOUT DAMAGING EXISTING ASPHALT ROADWAY PAVEMENT. PROVIDE MDOT "M" OPENING IN THE CONFIGURATION ILLUSTRATED ON THE DRAWINGS. NEW CURB & GUTTER TO BE REINFORCED AND DOWELLED INTO EXISTING UTILIZING 2 - #4 DEFORMED BARS, EMBEDDED 9-INCHES MIN. NEW CURB & GUTTER TO ALSO BE DOWELLED INTO EXISTING CONCRETE PAVEMENT UTILIZING #4 DEFORMED BARS, EMBEDDED 9-INCHES MIN, SPACED AT 18-INCHES ALONG THE LENGTH OF THE NEW CURB & GUTTER."
3. The plans show some type of sidewalk ramp approaching the Hull Road curb & gutter. Please delete said sidewalk ramp to nowhere.
4. There is an existing MDOT Type "L" driveway opening to the site, opposite of Trillium Drive. Remove and close curb & gutter opening in a similar manner as the other project curb & gutter removal and replacement.
5. The existing curb & gutter along Hull Road is MDOT Detail B2 curb & gutter. The proposed curb & gutter along Hull Road shall match the existing curb & gutter and can transition to MDOT Detail F4 curb & gutter within the site. The plans shall contain details for the proposed MDOT Detail B2 curb & gutter and MDOT Type "M" Driveway Openings, similar to the MDOT Detail F4 curb & gutter details.
6. The plans don't indicate that the construction requires work zone traffic control. That is highly unlikely, therefore please have them proposed a traffic control scheme on the plans. Traffic control shall comply with the applicable provisions within the Michigan Manual on Uniform Traffic Control Devices (MMUTCD).

Sincerely,

Robert H. Peterson, P.E.
Ingham County Road Department
Director of Engineering
County Highway Engineer
(517) 676-9722 ext 2336
rpeterson@ingham.org

David Haywood

From: Kerry Minshall
Sent: Wednesday, November 16, 2016 3:34 PM
To: David Haywood
Subject: Goodwill

Dave,
On the west side of the building where the overhang is located, the support columns for the overhang cut the access road from 25 feet wide to about 12 feet wide.
NFPA 1 2006 18.2.3.4.1.1 Fire Department access roads shall have an unobstructed width of not less than 20 feet.

I would like to see a fire hydrant located on the west side of hull road near the property entrance.
Kerry

Chief Kerry Minshall
City of Mason Fire Department
201 West Ash Street
Mason, MI 48854
ph 517-244-9025
fax 517-244-9028