

Memo

To: Members of Springboro Planning Commission, Elmer Dudas, Development Director, Chad Dixon, City Engineer, Ann Burns, Planning Commission Secretary

From: Dan Boron, Staff Liaison

Date: September 25, 2020

Re: Instructions for Wednesday, September 30, 2020 Planning Commission Work Session

The Wednesday, September 30, 2020 Planning Commission work session will be conducted remotely by teleconference using Zoom. The meeting will begin at 6:00 p.m., however the virtual meeting room will be available for you to join beginning at 5:45 p.m. Wednesday night.

Meeting materials are included in this packet following these instructions. You may read at your leisure and let me know if you have any questions or comments.

Here is how things will work on Wednesday night:

- 1) Beginning at 5:45 p.m. log on to www.zoom.us. You do this by going to www.zoom.us. (If you have Chrome as an internet browser choice, use that as it seems to work best.)
- 2) Once you are on the Zoom website, click "Join a Meeting" at the top right hand corner, which will bring you to the "Meeting ID" prompt. Enter Meeting ID and click button provided below.
- 3) At this point, it may prompt you to download the Zoom app (if you haven't used Zoom on that laptop / computer before). Download the app and click the .exe file in the bottom left hand corner once it is downloaded.
- 4) Then it may say "Open Zoom". Click "Open Zoom."
- 5) Then it should ask you for a meeting password. Enter meeting password and click Join Meeting.
- 6) Make sure at some point you click the "Join with Video" button. The meeting host will then accept you into the meeting. This may take a few seconds, so don't worry if you aren't joined right away.
- 7) Once you see other members who have joined, click the "Join Audio" on bottom left hand corner of screen and then click "Computer Audio".

8) You should be ready to go!

The City of Springboro is inviting you to a scheduled Zoom meeting.

Topic: Springboro Planning Commission Meeting

Time: Sep 30, 2020 05:45 PM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/88973951791?pwd=Q2JqWXNUcXlBK1RPRVlwS0tpWHI5Zz09>

Meeting ID: 889 7395 1791

Passcode: 566208

One tap mobile

+16465588656,,88973951791#,,,,,0#,,566208# US (New York)

+13017158592,,88973951791#,,,,,0#,,566208# US (Germantown)

Dial by your location

+1 646 558 8656 US (New York)

+1 301 715 8592 US (Germantown)

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+1 669 900 9128 US (San Jose)

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

Meeting ID: 889 7395 1791

Passcode: 566208

Find your local number: <https://us02web.zoom.us/u/ktwnmWZf7>

Meeting deliberations will begin at 6:00 p.m. If you are encountering technical difficulties, please let me know by texting me at 937-952-9035, however we will proceed with the meeting with the members present at the regular time. The meeting will be recorded for both sound and video.

If you have any questions regarding the meeting free to reach out to me at 937-748-6183 or danb@cityofspringboro.com. After 5:00 p.m. on meeting night the best way to reach me will be by text or phone at 937-952-9035.

Meeting Agenda
City of Springboro Planning Commission Meeting
Wednesday, September 30, 2020, 6:00 p.m.

PUBLIC NOTICE:

Per Ohio House Bill 197, passed in March 2020 in response to the COVID-19 state of emergency, Section 12(A), the Springboro Planning Commission will conduct its Wednesday, September 30, 2020 Meeting via video conference at 6:00 p.m. EDT. Visit the City of Springboro website at <https://www.cityofspringboro.com/CivicAlerts.aspx?CID=6,1> for a link to connect to the meeting.

- I. Call to Order

- II. Approval of Minutes
 - A. July 29, 2020 Planning Commission Meeting
 - B. August 12, 2020 Planning Commission Work Session Meeting

- III. Agenda Items
 - A. Site Plan Review, 625 West Central Avenue, Springboro Plaza Shopping Center, new Kroger
 - B. Record Plan, 625-725 West Central Avenue, Springboro Plaza Shopping Center, right-of-way dedication
 - C. Record Plan, Greenleaf Village, Section One-A

- IV. Guest Comments

- V. Planning Commission and Staff Comments

- VI. Adjournment

City of Springboro
320 West Central Avenue, Springboro, Ohio 45066
Planning Commission Meeting
Wednesday, July 29, 2020

I. Call to Order

Chairperson Becky Iverson called the Springboro Planning Commission Meeting to order at 6:00 p.m. by video conference.

Present: Mark Davis, Chris Pearson, Robert Dimmitt, Steve Harding, John Sillies, and Becky Iverson. Absent: Becky Hartle.

Staff: Dan Boron, City Planner; Chad Dixon, City Engineer; Ann Burns, Planning Commission Secretary. Also present were John Roll, Roll & Assoc., Dalton Witham, Cincinnati Commercial Contracting (CCC); John Westheimer, CCC; Justin Elam, CESO; and Jonathan Evans, Evans Engineering.

Mr. Harding motioned to excuse Ms. Hartle. Mr. Davis seconded the motion.

Vote: Iverson, yes; Pearson, yes; Sillies, yes; Davis, yes; Harding, yes; Dimmitt, yes (6-0)

II. Approval of Minutes

A. June 24, 2020 Planning Commission Minutes

Ms. Iverson asked for corrections or additions to the minutes.

There were none.

Mr. Sillies motioned to approve the June 24, 2020 Planning Commission minutes as submitted. Mr. Dimmitt seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes. Dimmitt, yes; Iverson, yes; Harding, yes. (6-0)

B. July 8, 2020 Planning Commission Work Session Minutes

Mr. Sillies motioned to approve the July 8, 2020 Work Session minutes as submitted. Mr. Harding seconded the motion.

Vote: Davis, yes; Sillies, yes. Dimmitt, yes; Iverson, yes; Harding, yes; Pearson, yes (6-0)

III. Agenda Items

A. Final Development Plan Review, Advance Drive PUD, Planned Unit Development, commercial building

Background Information & Staff Comments

This agenda item is an application for final development plan approval for a site located in the Stolz Industrial Park located on Advance Drive near the intersection of Advance Drive and Sharts Road. The proposed building site, located at the north end of the industrial park, immediately south of the Wood Group building (formerly Kelchner Construction) is part of a larger, 18.89-acre site owned by Cincinnati Commercial Contracting. The owner proposes to build a 10,000-square foot flexible space commercial building for a future user that will be subdivided from the larger parcel. The building/site can accommodate expansion for an additional 10,000 square feet of buildable space as shown in the submitted plans. No address has been assigned for the property at this point in time.

The subject property has frontage on Advanced Drive. Adjacent land includes other properties in the Stolz Industrial Park: CBT on the east side of Advance Drive, and Hanover Products immediately to the south, and the aforementioned Wood Group immediately to the north. To the west is undeveloped property located in Franklin Township.

The subject property is zoned PUD, Planned Unit Development, and is part of the Advanced Drive PUD. That zoning designation also includes the CBT, Hanover Products, and the remainder of the Cincinnati Commercial Contracting property to the south. The Advanced Drive PUD was created in 1997 to accommodate light industrial development of the area in collaboration with the Stolz estate. The Wood Group site is zoned ED, Employment Center District. The property to the west is zoned Franklin Township R-1, Rural Residence District.

This agenda item was reviewed on a preliminary basis at the July 8th work session at which time the Planning Commission authorized this item to be placed on the July 29th meeting agenda for formal adoption. No City Council action is required on this agenda item.

Staff Recommendation

City staff recommends APPROVAL of the site plan subject to the following conditions:

1. Regarding the proposed lighting plan, staff has the following comments:
 - a. Proposed wall pack lighting is not acceptable. Coordinate with City staff on an acceptable fixture.
 - b. Verify if lighting fixtures proposed comply with maximum 3500° Kelvin color-temperature standard.
2. Provide lot line information in vicinity of improvements.
3. Provide additional storm sewer details such as catch basin type.
4. Is curb being placed along parking lot/drive aisle? Please clarify on plans and make any storm sewer adjustments accordingly.
5. Water main to have 54" cover, and sanitary lateral to have minimum 2% slope. Adjust sheet notes on C-3.1 accordingly.
6. Revise Sheet C-3.1 to state water meter to be located inside of building.
7. Provide spot elevations throughout parking lot.
8. Revise sheet C-5 to include dandy bags on all storm sewer structures on site.
9. Detention calculations currently under review.
10. Final approved site plan shall be submitted and to include signature of the owner or duly authorized officer and revisions from staff comments and planning commission.

11. An "As Built" drawing showing as built location and elevations of all improvements shall be submitted prior to the issuance of an occupancy permit.
12. Clearcreek Fire District has no comments at this time.

Discussion:

Ms. Iverson asked for any questions or comments.

Dalton Witham, Cincinnati Commercial Contracting, property owner, noted that all of their questions or concerns were addressed earlier by staff.

Mr. Pearson asked if there has been any interest expressed from potential tenants.

Mr. Roll stated there was no potential tenants at this time.

Ms. Iverson asked for a motion to approve

Mr. Pearson motioned to approve. Ms. Harding seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes; Dimmitt, yes; Iverson, yes; Harding, yes. (6-0)

B. Site Plan Review, Southeast Corner Edwards Drive and Tahlequah Trail, warehouse building for Thaler Machine

Background Information & Staff Comments

This agenda item is a request for site plan review approval for the construction of a 14,000-square foot building for Thaler Machine Company on a site located at the southeast corner of Edwards Drive and Tahlequah Trail. The site is located immediately to the south of Thaler Machine's existing 69,472-square foot building located on the north side of Edwards Drive. The proposed site of the 14,000 square foot building is zoned HBD, Highway Business District.

As indicated in the submitted plans, the proposed warehouse would have double frontage on both Edwards Drive and Tahlequah Trail, with vehicular access from Edwards Drive to align with the loading docks on the existing Thaler Machining building to the north. Off-street parking for the building would be provided on the main Thaler Machining site to the north.

In addition to the existing Thaler Machine operation to the north, adjacent land uses in the vicinity include the Cascade Car Wash to the east, located at the corner of Edwards Drive and Hiawatha Trail, multi-tenant commercial buildings to the south and south west on the east and west sides of Tahlequah Trail, and Integrity Interiors general contractors to the northwest. Properties to the northwest and north are zoned ED, Employment Center District, while lands to the east, south and west are all zoned HBD District.

This agenda item was reviewed on a preliminary basis at the July 8th work session at which time the Planning Commission authorized this item to be placed on the July 29th meeting agenda for formal adoption. No City Council action is required on this agenda item.

Staff Recommendation

City staff recommends APPROVAL of the site plan subject to the following conditions:

1. Provide a photometric analysis of the lighting proposed for the site consistent with Chapter 1273 (Exterior Lighting) of the Planning & Zoning Code. Indicate if lighting complies with maximum 3500° Kelvin color-temperature standard.
2. Sanitary lateral to have minimum 2% slope.
3. Obtain private storm sewer easement from adjacent property owner for storm sewer connection prior to occupancy permit.
4. Water lateral to be minimum 1", with curb box behind curb.
5. Final approved site plan shall be submitted and to include signature of the owner or duly authorized officer and revisions from staff comments and planning commission.
6. An "As Built" drawing showing as built location and elevations of all improvements shall be submitted prior to the issuance of an occupancy permit.
7. The Clearcreek Fire District has no comments at this time.

Discussion:

Ms. Iverson asked for any questions or comments.

John Roll, owner's representative, noted that they spoke with the City Engineer and that discussion addressed any questions they had.

Mr. Boron stated that there has been good communication with this project and City staff looks forward to moving forward.

Ms. Iverson asked for a motion to approve

Mr. Harding motioned to approve. Mr. Dimmitt seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes. Dimmitt, yes; Iverson, yes; Harding; yes, (6-0)

- C. Preliminary Plan (Stage 2 Approval), 6329 Red Lion Five Points Road, proposed Clearcreek Reserves West residential subdivision

Background Information & Staff Comments

This agenda item is an application for preliminary plan approval through the City of Springboro's subdivision review and approval process included in Chapter 1242 of the Planning & Zoning Code. This application was filed on behalf of Headwaters Capital, LTD, Springboro, and proposes the development of an 11-unit, single-family residential subdivision on a 34.1-acre site located at 6329 Red Lion-Five Points Road. The working title of the subdivision is Clearcreek Reserve West. The property is also commonly known as the Conover property.

The subject property has frontage on Red Lion-Five Point Road and is located immediately adjacent to the Heatherwoode community north of the intersection of Red Lion-Five Points Road and Balcomie Way.

The subject property is situated between the Heatherwoode subdivision in Springboro to the west and the Clearcreek Reserve subdivision in Clearcreek Township to the west. A number of single-family residential homes are also located adjacent to the subdivision on the east side of Red Lion-Five Points Road. A vicinity map is included with the meeting materials.

The subject property is zoned R-1, Estate-Type Residential District, a zoning designation that permits single-family residential development at the rate of 2 dwelling units per acre on lots with a minimum size of 20,000 square feet. The R-1 District also allows public and semi-public uses such as churches and schools, accessory uses, and other land uses.

The property has been zoned R-1 District since 2015. At that time the City of Springboro rezoned this and roughly 20% of the City's land area from (T)R-1, Clearcreek Township Rural Residence District (and area of Franklin Township Rural Residence District), in order to bring land development regulations for the entire community under the City's codes. The property was zoned (T)R-1 District from the time it was annexed in 1991. The two districts have the same 2 dwelling unit per acre development density/20,000 square foot minimum lot size.

The density for the proposed subdivision is 0.35 dwelling units per acre. For comparison purposes the adjacent Heatherwoode subdivision was developed, excluding golf course property and other open space areas not on the golf course, at 2.1 dwelling units per acre. As proposed the subdivision includes 11 single-family residential lots ranging in size from 1.25 acres in proposed lot #1, to 8.03 acres in proposed lot #11. The average lot size is 3.01 acres. The subdivision proposes the dedication of 0.96 acres of right-of-way in the form of an un-named, proposed cul-de-sac that accessed lots 4 through 11. Lots 1 through 3 will be accessed directly from Red Lion-Five Points Road. No common space is proposed as part of the development. Lots will be served by City of Springboro water and on-site septic. A 10-foot multiuse side path is proposed for the Red Lion-Five Points frontage.

Adjacent land uses include a mix of farmland, low-density residential, and the Heatherwoode Golf Course. Heatherwoode Golf Course holes #5 and #6 are located to the west and northwest of the subject property, and residential home sites in Heatherwoode are located to the southwest on Nairn Court and Royal Highlands Court. To the north on the north side of Clear Creek is an active farm. To the east is the developing Clearcreek Reserves subdivision as well as single-family residential on the east side of Red Lion-Five Points Road, both in Clearcreek Township.

Clear Creek forms a portion of the northern boundary of the property. The northern portion of the property includes floodway and 100- and 500-year flood zones from the creek.

Adjacent zoning includes to the west PUD, Planned Unit Development (Ordinance O-90-13) associated with the Heatherwoode Golf Course and the adjoining residential subdivision, and PUD-R, Planned Unit Development-Residential (Ordinance O-07-13), associated with farmland located to the north of the subject property. Zoning for the sites to the east in Clearcreek Township are zoned SR-1, Suburban Residence Zone, and R-1, Rural Residence District.

Preliminary plan review is the second stage in the subdivision review process that includes (1) concept plan between the applicant and City staff, (2) preliminary plan, and (3) record plan. Preliminary plan review and approval follows concept plan review and approval which takes place between the applicant and City staff, focusing on compliance with the City's subdivision regulations that manage the manner in which private property is developed (the design of streets and lots, utilities, connections to other development, etc.) as well as compliance with Planning & Zoning

Code requirements (minimum lot sizes, setback, etc.). This conventional subdivision review with no rezoning requested is similar to the Sawgrass Pointe subdivision review initiated by Associate Construction in 2018.

The developer has indicated their intention, following approval of the preliminary plan, to develop lots 1-3 in the near term.

This item was reviewed on a preliminary basis at the June 10th work session at which time the Planning Commission authorized this to be place Approval of the preliminary plan by Planning Commission may take place at a regular business meeting following review at a work session. That may take place as soon as the July 29, 2020 Planning Commission meeting. No City Council review is required. Following preliminary plan review and approval a record plan may be submitted by the application for review and approval by the Planning Commission and City Council.

Staff Recommendation

City staff recommends APPROVAL of the preliminary plan for Clearcreek Reserve West subject to the following conditions:

1. Development to comply with R-1 District design and development standards including but not limited to setbacks, height, lot coverage, frontage, minimum lot size, etc.
2. Architectural plans to comply with Planning & Zoning Code Section 1264.06, Development Standards for Single-Family Detached Dwellings, provisions including exterior building materials, appearance conforming to neighborhood surround development, and garage placement/design.
3. Applicant to provide mechanism for the construction of the proposed 10-foot multiuse trail along Red Lion-Five Points Road.
4. The following landscaping will need to be provided as part of the proposed development in accordance with Chapter 1280, Landscaping, of the Planning & Zoning Code.
 - a. Landscape Buffer. Provide a 10-foot buffer between the proposed subdivision and adjoining residential property. Landscaping within the buffer to be provided at the rate of 1 tree per 40 linear feet of property line. The buffer to consist of trees, shrubs and earthen mounds, decorative fences and masonry walls in combination. The only development permitted within the buffer aside from landscaping are sidewalks and bicycle paths.
 - b. Roadway Landscaping. Landscaping shall be provided along West Factory Road at the rate of 1 shade or evergreen tree per 40 feet of right-of-way frontage, 1 ornamental tree per 100 feet of right-of-way frontage and 1 shrub per 5 feet of right-of-way frontage.
 - c. Natural Vegetation Preservation. Existing site vegetation greater than 4 inches diameter at breast height shall be noted pre-development. Such trees, if retained, shall be credited for landscaping required as part of Chapter 1280.
 - d. Site Landscaping. One tree shall be provided on the site at the rate of 1 tree per 3,000 square feet of site area.
 - e. Golf Course. Applicant to provide language for the protection of all existing vegetation in the proposed 20-foot conservation easement for the protection of the adjacent golf course.
5. Provide base flood elevations on construction drawings and record plan.
6. Coordinate with post office concerning location of CBU (mail box unit) and provide on construction drawings for review.
7. Construction drawings to include Phases one and two on one drawing.

8. Provide HOA documents for review and approval. Documents to be recorded prior to recording of the record plan.
9. Provide detention calculations.
10. Provide construction drawings "As-Built".
11. The Clearcreek Fire District has no comments at this time.

Discussion:

Ms. Iverson asked for any questions or comments from the applicant or members of Planning Commission.

Todd Kelchner, developer and property owner, stated that he had no additional comments, all his questions were answered by staff.

Ms. Iverson asked for a motion to approve

Mr. Sillies motioned to approve. Mr. Harding seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes; Dimmitt, yes; Iverson, yes; Harding, yes, (6-0)

**D. Planning & Zoning Text Amendment - Combined Meetings
Background Information & Staff Comments**

This agenda item is a request by City staff to amend parts of the Planning & Zoning Code that would result in the consolidation of the Planning Commission meeting into a single meeting each month. This item was discussed at the May 13th and July 8th work session.

To begin, in May staff recommended amending three sections of the Site Plan Review Code, Sections 1284.04 (Submission of a Site Plan), 1284.05 (Site Plan Contents), and 1284.08 (Site Plan Review Criteria Applicable to All Land Uses), to eliminate references to a work session of Planning Commission and replacing it with a reference to a preliminary review. These are the only instances where a work session is mentioned, again as discussed back in May, this is largely due to the fact that this chapter was the focus of a lot of attention during the 2015 Planning & Zoning Code Update. Site plan review represents a large portion of Planning Commission's caseload and that was the cause for the changes to Chapter 1284.

As borne out by the last three Planning Commission meeting cycles, there is more to the caseload than site plan reviews: Planning Commission also reviews policy plans (for example the Bicycle & Pedestrian Plan), subdivisions (as with the Clearcreek Reserve West project currently going through the review process), final development plans (Advance Drive project on this agenda) and other parts of the PUD review and approval process, and text and map amendments.

Rather than address all these processes specifically and individually throughout the Planning & Zoning Code, City staff is recommending one additional change to Section 1282.04, Organizations & Responsibilities, Planning Commission, to include the preliminary review being a prerequisite to formal approvals of cases.

The text includes "may" so that there is some discretion to allow cases to proceed directly to formal approval. This has happened with the approval of sections of subdivisions through the record plan process.

The recommended text amendments are provided below. Please note that entire sections are provided even in the event text amendments are limited to smaller section of the respective section.

This item was reviewed on a preliminary basis at the July 8th work session at which time the Planning Commission authorized this item to be placed on the July 29th meeting for formal approval. City Council set a public hearing on this item for its August 20th meeting.

Proposed Text Amendments to Accommodate Combined Meetings

Note: existing text to remain appears in plain format, text to be deleted appears in ~~strikeout~~, and proposed text in **bold and underline**.

Section 1284.04, Submission of a Site Plan

- (a) In order to avoid unnecessary expenditures of time and resources, and to ensure a clear understanding of the requirements of this Zoning Code, any developer, builder or owner who is contemplating the filing of a site plan, as required by this Zoning Code, shall confer with the Zoning Inspector, City Engineer, or the City Manager's designee (hereinafter "Planning Director") before developing and filing a site plan.
- (b) Every site plan shall be filed with the City as determined by the Planning Director, an electronic submission may be permitted. Each site plan shall be drawn to a size and scale acceptable to the Planning Director, and a larger scale for all or part of the area may be required by the Planning Director. Narrative attachments shall be included.
- (c) Those elements of a site plan which require special expertise in such fields as surveying, engineering or architecture shall be prepared and certified by an appropriate professional licensed to practice in the State of Ohio.
- (d) Every site plan shall be signed by the owner of the land to which the site plan applies or, if a corporation, by a duly authorized officer of the corporation.
- (e) All site plans must be reviewed **on a preliminary basis** at a ~~work session~~ meeting of the Planning Commission, unless the Planning Director waives the requirement ~~for a preliminary review for a work session~~. Each site plan shall be submitted **in compliance with the deadlines established by the Director of Planning at least 12 days** in advance of the Planning Commission ~~work session~~ meeting at which it will first be considered (see Figure 10 at the end of this chapter). (Ord. 00-16. Passed 2-17-00.)
- (f) **Planning Commission may authorize the site plan to be placed on a meeting agenda for formal approval.** Each site plan must be submitted **in compliance with the deadline established by 19 days prior to the regular Planning Commission meeting unless modified by the Director of Planning Director.**

Section 1284.05, Site Plan Contents

Every site plan shall show or provide by written attachments the information identified in the Site Plan Review Checklist of the City, which the City may revise from time to time. The City may require ~~fewer other~~ details for the site plan to be reviewed ~~at the Work Session~~ **in the course of its review.**

Section 1284.08, Site Plan Review Criteria Applicable to All Land Uses

The Planning Commission shall review the site plan and the reports of City staff at a ~~Work Session~~ meeting on a preliminary basis subject to submission of an application consistent with the deadlines established by the Director of Planning not later than 12 days after the site plan submission deadline (see Table 10 at the end of this chapter). At the ~~Work Session~~ preliminary review, the Planning Commission shall ~~schedule~~ determine if formal review of the site plan is appropriate at its next regular meeting ~~to take place at least 16 days after the Work Session~~ if all of the following requirements are met and/or recommend modifications thereof to the applicant or landowner if any of the following requirements are not met:

- (a) The application shall be fully and accurately completed;
- (b) The substance of the plan shall conform to the provisions of this chapter and any other Municipal ordinance or state or federal law, or provide an explanation of why any nonconformity should be allowed;
- (c) The plan shall provide adequate parking, loading and vehicle stacking facilities, open space, and lighting systems. Permitted parking shall be separated by buildings or properly designed walkways, trees, greenspace or by other comparable techniques;
- (d) The plan shall provide for adequate pedestrian and vehicular circulation within the development and adjacent public right-of-way;
- (e) The plan shall access the public roadway via curb cuts shared with adjacent uses to the maximum extent feasible, consistent with sound traffic engineering standards;
- (f) The plan shall provide adequate utility, waste disposal or sanitary services;
- (g) The plan shall create a satisfactory and harmonious relationship between the development of the site and the existing and prospective development of contiguous land and adjacent neighborhoods;
- (h) The plan shall include all dedications of easements and rights-of-way, and all public improvements, to conform to and implement municipal plans for utilities, streets and open space preservation and development.
- (i) The plan shall include landscaping and screening in conformance with municipal ordinances, administrative standards or other reasonable criteria;
- (j) The plan shall eliminate any existing conditions hazardous to health or safety, shall not create such conditions, and shall not create a nuisance; and
- (k) The plan shall include all design elements and expressly state all operational limitations recommended by the Commission which are reasonably related to the public health, safety and general welfare and which are desirable to serve the premises or minimize the adverse effects of the plan on the neighborhood or community. (Ord. 00-16. Passed 2-17-00.)
- (l) Walkway/bikeways fronting on public roads shall be designed and integrated with the screening and landscaping in a manner conforming to the relevant renderings provided in the City's Bicycle Pedestrian Plan.

- (m) Walkway/bikeway design, landscaping and plant material selection, and screening techniques shall not only relate to the development of the subject site but also coordinate with the existing and prospective development of adjacent sites and public facilities.

Following this preliminary discussion, Table 10 at the conclusion of Chapter 1284 will need to be updated and revised.

Section 1282.04, Organization & Responsibilities, Planning Commission

The Planning Commission shall have such powers and duties as are conferred upon it by the laws of Ohio, this Zoning Code, those powers enacted by resolution or ordinance of City Council, and Section 9.06(b) of the Municipal Charter of the City of Springboro.

In the course of completing the review and approval processes described in this Planning and Zoning Code, the Planning Commission may require the preliminary review of applications prior to formal approval.

Staff Recommendation

City staff recommends APPROVAL of this Planning & Zoning Code text amendment as submitted. Staff looks forward to working with Planning Commission on the process of implementing this single meeting per month. That includes scheduling and deadlines, the meeting agenda format, and more.

Discussion:

Mr. Boron noted that this is the third review of this topic by Planning Commission. The benefits of the change will be one meeting per month which will be blended for both preliminary review and formal approvals on agenda items. He referred to a sample agenda which shows a draft of the possible format of the combined agenda.

Mr. Boron explained that the Public Hearing will take place prior to the Council Meeting on August 20, where the first reading will also take place. Staff may also request that the second and third readings be waived so that this change can be implemented.

Ms. Iverson asked if this means the first possible combined meeting could take place in September.

Mr. Boron explained that staff has been reviewing the deadlines and schedules for the meetings, but have not yet determined if the September meeting will be combined or not. At the latest the change will occur in October.

Mr. Boron asked the Planning Commission if they were happy with the current schedule when they receive the meeting packets on the Friday before the meeting, and possibly even Thursday.

The Commission agreed this schedule was fine.

Ms. Iverson asked for a motion to approve.

Mr. Harding motioned to approve. Ms. Davis seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes. Dimmitt, yes; Iverson, yes; Harding; yes. (6-0)

IV. Guest Comments

There were no guest comments.

V. Planning Commission and Staff Comments

There were no additional comments.

Adjournment

Mr. Harding motioned to adjourn the July 29, 2020 Planning Commission Regular Meeting at 6:21 p.m. Mr. Pearson seconded the motion.

Vote: Pearson, yes; Davis, yes; Sillies, yes. Dimmitt, yes; Iverson, yes; Harding; yes. (6-0)

Becky Iverson, Planning Commission Chairperson

Dan Boron, Planning Consultant

Ann Burns, Planning Commission Secretary

City of Springboro
320 West Central Avenue, Springboro, Ohio 45066
Planning Commission Work Session
Wednesday, August 12, 2020, 6:00 p.m.

I. Call to Order

Chairperson Becky Iverson called the Springboro Planning Commission Work Session to order at 6:00 p.m. by video conference.

Present: Chris Pearson, Robert Dimmitt, John Sillies, Steven Harding, Becky Iverson, and Mark Davis. Absent: Becky Hartle.

Staff: Dan Boron, City Planner; Elmer Dudas, Development Director; and Ann Burns, Planning Commission Secretary. Also present representing Kroger was Anne McBride, McBride-Dale-Clarion, Bob Trenkamp, Thomas Graham Associates, Inc., and Lisa Ammons, Lynn Horwitz, and Kristen Campbell, all of Kroger.

II. Agenda Items

A. Site Plan Review

625 West Central Avenue (SR 73), Springboro Plaza Shopping Center, new Kroger

Background Information

This agenda item is an application for site plan review approval for the reuse of the former Kmart retail store as a new Kroger grocery store and the construction of a Kroger fueling station on the northwest corner of the site in the Springboro Plaza Shopping Center. Kroger, which purchased the shopping center in 2019, proposes to reuse the former 90,298-square foot Kmart space as a new grocery store. The store will include a Kroger pharmacy and a Starbucks. The Kmart garden center on the east/South Pioneer Boulevard frontage would be removed and replaced with a drive-through window for the pharmacy and queuing for Kroger PickUp (formerly Clicklist). Circulation in this area would be one-way northbound. The front elevation of the proposed Kroger will be modified under the proposal with the installation of a vestibule. Details of the internal use of the new Kroger space are not available at this time.

Plans for the remaining retail spaces in the shopping center, including the existing 56,065-square foot grocery store, are incomplete at this time. Kroger has indicated that construction on the new grocery store would begin in early 2021 with the new store opening projected for November 2021.

A 14-pump Kroger fueling center is proposed for the northwest corner of the site. To access the fueling center the westernmost driveway, a right-in, right-out accessing West Central Avenue, will be modified, currently access is only permitted at the front of the store and to the service area at the rear of the shopping center. The five other existing access points are proposed to remain under the proposed plan.

The subject property has frontage and vehicle access on West Central Avenue and South Pioneer Boulevard. A truck delivery drive also accesses Pleasant Valley Drive to the south. Adjacent uses include LaComedia dinner theater to the west. To the north, from west to east,

Tire Discounters, O'Reilly Auto Parts, the Appleton Square shopping center (Subway, Pizza Hut), the TrueNorth convenience store, car wash, and Shell gas station, and Skyline Chili. To the east, on the east side of South Pioneer Boulevard, Speedway, a vacant building that formerly housed a drive through, Big Al's muffler shop, and the Springboro post office. Within the Springboro Plaza shopping center is Burger King. To the southeast is VST, and to the southwest is multi-tenant business center. Both uses to the south have frontage and access from Pleasant Valley Drive.

The subject property is zoned HBD, Highway Business District, a zoning category that permits the proposed uses. Adjacent lands to the west, north, and east are also zoned HBD. Lands to the south are zoned ED, Employment Center District

Staff Comments

City staff identified the following comments for this agenda item at this time:

1. For proposed building elevations, CMU is not a permitted material. Also City staff advises the applicant that a single accent color is permitted under the Planning & Zoning Code.
2. Following the Planning Commission review at the August 12th work session, applicant to submit an exterior lighting plan consistent with Chapter 1273 of the Planning & Zoning Code. The plan will need to include a photometric analysis include those for proposed architectural lighting, fully cutoff fixtures, color-temperatures not exceeding 3500° Kelvin, and other details. City staff will be available to work with the applicants on this task.
3. Following Planning Commission review at the August 12th work session, applicant to submit a landscaping plan for the site consistent with Chapter 1280 of the Planning & Zoning Code. The plan will need to account for existing trees 4 inches dbh and larger, address screening of the fueling center, ground-mounted mechanical and other equipment, and the parking field. Regarding the parking, City staff recommends replacing all parking aisle ends with landscaped areas. City staff will be available to work with the applicants on this task
4. Applicant to coordinate with City staff on the preparation of an exterior signage plan for the site consistent with Chapter 1281 of the Planning & Zoning Code.
5. Provide existing utilities and easements and how they are affected. Any structures built within and existing easement requires City approval.
6. Provide storm sewer drainage design and topography.
7. Provide dimensions throughout the site.
8. Provide the activity/construction proposed on the southeast side of the new Kroger building and how it relates to the existing sanitary sewer easement.
9. Site plan will need to be modified to distinguish the difference between existing and proposed elements of the plan.
10. What is the purpose of dashed lines in the front of the Kroger building throughout the front side of the parking aisles?
11. Provide a record plan dedicating the right of way along West Central Avenue along with a 10 foot utility easement.
12. A traffic study is currently being completed. Make adjustments to site plan according to recommendations of traffic study and staff comments.
13. Will fueling tanker block access drive at gas station?

Discussion:

Mr. Boron reviewed the staff comments and provided an overview of the submittal from Kroger. Kroger has purchased the full space formerly owned by K-Mart and is proposing a new Kroger grocery store and the construction of a Kroger fueling station on the northwest corner of the site in the Springboro Plaza Shopping Center. Mr. Boron noted that they intent to keep the current Kroger operating thru 2020 until the new space opens.

Ms. McBride stated that Kroger has been working on this plan for a long time and they are glad to finally be moving forward. She expressed appreciation to the City staff for getting the comments out early, and close to addressing all the comments and issues. They plan on scheduling a meeting with City staff within the next week to work out more details. Ms. McBride explained they are still working through issue with CMUs, lighting and landscaping, which can be reviewed at the meeting.

Mr. Harding asked if there was any plans for landscaping islands in the parking lot.

Ms. McBride explained that the lot is small, but they hope to incorporate plans to "green up" the space.

Mr. Harding asked if the other tenants in the plaza would continue to lease space.

Ms. McBride explained that the current tenants will not be moving, and Kroger is very vested in finding tenants for the other available space.

There was further discussion on the plans for the parking lot, color schemes, and the traffic study that will be necessary for the fueling station and other site improvements.

Ms. Iverson asked if there have been any ideas presented for the old Kroger space after they move.

Ms. McBride explained that Kroger will be working with brokers as part of the re-development, but also welcome input from the city.

Ms. Iverson asked what the timeline was for the next steps.

Mr. Boron explained that the final review will be presented at the September 30th meeting.

II. Guest Comments

There were no guest comments. No comments were received by the deadline for incorporating guest comments.

IV. Planning Commission and Staff Comments

Mr. Harding thanked the Kroger representative for all their work on proposed site plan.

V. Adjournment

Ms. Iverson adjourned the Wednesday, August 12, 2020 Planning Commission Work Session at 6:17 p.m.

Becky Iverson, Planning Commission Chairperson

Dan Boron, Planning Consultant

Ann Burns, Planning Commission Secretary

Background Information & Staff Recommendations
City of Springboro Planning Commission Meeting—Conducted by Conference Call (Zoom)
Wednesday, September 30, 2020, 6:00 p.m.

PUBLIC NOTICE:

Per Ohio House Bill 197, passed in March 2020 in response to the COVID-19 state of emergency, Section 12(A), the Springboro Planning Commission will conduct its Wednesday, September 30, 2020 work session via video conference at 6:00 p.m. EDT. Visit the City of Springboro website at <https://www.cityofspringboro.com/CivicAlerts.aspx?CID=6,1> for a link to connect to the meeting.

III. Agenda Items

A. Site Plan Review

625 West Central Avenue (SR 73), Springboro Plaza Shopping Center

Background Information

This agenda item is an application for site plan review approval for the reuse of the former Kmart retail store, located at 625 West Central Avenue, as a new Kroger grocery store and the construction of a Kroger fueling station on the northwest corner of the site in the Springboro Plaza Shopping Center. Kroger, which purchased the shopping center in 2019, proposes to reuse the former 90,298-square foot Kmart space as a new grocery store. The store will include a Kroger pharmacy and a Starbucks. The Kmart garden center on the east/South Pioneer Boulevard frontage would be removed and replaced with a drive-through window for the pharmacy and queuing for Kroger PickUp (formerly Clicklist). Circulation in this area would be one-way northbound. The front elevation of the proposed Kroger will be modified under the proposal with the installation of a vestibule. Details of the internal use of the new Kroger space are not available at this time.

Plans for the remaining retail spaces in the shopping center, including the existing 56,065-square foot grocery store located at 725 West Central Avenue, are incomplete at this time. Kroger has indicated that construction on the new grocery store would begin in early 2021 with the new store opening projected for November 2021.

A 14-pump Kroger fueling center is proposed for the northwest corner of the site. To access the fueling center the westernmost driveway, a right-in, right-out accessing West Central Avenue, will be modified, currently access is only permitted at the front of the store and to the service area at the rear/south side of the shopping center. The five other existing access points are proposed to remain under the proposed plan.

The subject property has frontage and vehicle access on West Central Avenue and South Pioneer Boulevard. A truck delivery drive also accesses Pleasant Valley Drive to the south. Adjacent uses include LaComedia dinner theater to the west. To the north, from west to east, Tire Discounters, O'Reilly Auto Parts, the Appleton Square shopping center (Subway, Spring/T-Mobile, Pizza Hut), the TrueNorth convenience store, car wash, and Shell gas station, and Skyline Chili. To the east, on the east side of South Pioneer Boulevard, are located a Speedway gas station/convenience store, a vacant building that formerly housed a drive through, Big Al's muffler shop, and the Springboro post office. Within the Springboro Plaza shopping center is Burger King. To the

southeast is VST, and to the southwest is multi-tenant business center. Both uses to the south have frontage and access from Pleasant Valley Drive.

The subject property is zoned HBD, Highway Business District, a zoning category that permits the proposed uses. Adjacent lands to the west, north, and east are also zoned HBD. Lands to the south are zoned ED, Employment Center District.

This agenda item was reviewed on a preliminary basis at the August 14th work session at which time the Planning Commission authorized this item to be placed on the September 30th meeting agenda for formal adoption. No City Council action is required on this agenda item.

Staff Recommendation

City staff recommends APPROVAL of the site plan for the proposed Kroger at 625 West Central Avenue subject to the following conditions:

1. Verify no new CMU is proposed on elevations for proposed Kroger.
2. Provide information on proposed storage containers and cabinets for sales accessory to the proposed fueling area.
3. Revise landscaping plan to address the following comments for compliance with Chapter 1280 of Planning & Zoning Code:
 - a. Relocate landscaping proposed for water main on West Central Avenue frontage. Relocation to right-of-way is acceptable.
 - b. All landscaping to not interfere with sight distance requirements at driveway entrances.
 - c. For proposed parking lot landscaping, indicate where proposed 9,803 square foot landscaped areas indicated on sheet L-2 (and associated landscape material take-offs) are proposed. Chapter 1280 requires 4,650 square feet for the east side of the parking lot, but only 1,290 square feet is provided by City staff calculation. To remedy the deficiency provide landscaped areas at parking aisle endings.
4. Revise lighting plan to comply with Exterior Lighting Code, Chapter 1273 of Planning & Zoning Code as follows:
 - a. Verify that all proposed fixtures are 3500° Kelvin color-temperature or less. Canopy lighting indicates non-availability for less than 4000° Kelvin color-temperature.
 - b. Proposed floodlighting is not permitted; all lighting needs to be horizontally mounted (85° or less) per code.
 - c. Proposed wall-mounted lighting not permitted as up lighting. Please verify installation plans.
 - d. Indicate if photometric analysis includes architectural lighting, and if it does indicate compliance with Chapter 1273.
 - e. Lighting levels exceed foot-candle levels under canopy (10 foot-candles maximum) and in immediate vicinity (6 foot-candles). Revise plan to comply with code.
5. Sanitary sewer lateral to be SDR 35 with clean-outs at bends and every 100 feet. Water lateral to be "K" copper. Also provide water lateral size (minimum of 1") and curb stop within 5 feet of tap to water main. Remote reader to be located within building.
6. Clearly delineate the new pavement areas and provide typical section. Provide typical for new drive aprons, with minimum of 8" concrete. Also provide concrete thickness at truck ramp.
7. Provide proposed curb type with design details and radius.
8. Replace existing drive apron and sidewalk in both west and central driveway curb cuts due to widening of the drive.
9. Provide proposed pavement marking in rear of building, along widened access drive, if any.

10. Show the pavement island removal at west side access drive as well as trees to be removed due to new curb cut into parking lot.
11. Remove proposed landscaping from water main easement area.
12. Provide limits of pavement resurfacing in parking lot area.
13. Recording of the SR 73 Right of Way dedication to occur prior to final occupancy permit.
14. Final approved site plan shall be submitted and to include signature of the owner or duly authorized officer and revisions from staff comments and planning commission.
15. An "As Built" drawing showing as built location and elevations of all improvements shall be submitted prior to the issuance of an occupancy permit.
16. Clearcreek Fire District has no comments at this time.

B. Record Plan

625-725 West Central Avenue (SR 73), Springboro Plaza Shopping Center

Background Information

City staff requested the dedication of right-of-way along the West Central Avenue (SR 73) frontage of the Springboro Plaza Shopping Center concurrent to the redevelopment of the former Kmart store's located at 625 West Central Avenue reuse as a Kroger store. This agenda item would result in the dedication of approximately 1.167 acres of land to the City as right-of-way for West Central Avenue/SR 73. Following action by the Planning Commission, approval by City Council would be required.

Staff Recommendation

City staff recommends APPROVAL of the record plan for the right-of-way dedication for Springboro Plaza Shopping Center located at 625-725 West Central Avenue subject to the following conditions:

1. Recording of the SR 73 Right of Way dedication to occur prior to final occupancy permit
2. Submit to Warren County for review and make any necessary changes.
3. Add West Central Avenue in the title block.

C. Record Plan

Greenleaf Village Section One-A

Background Information

This agenda item is an application for record plan approval for the replat of lots # 31, 32, and 33 in the Greenleaf subdivision, Section One. The lots are located on Irish Hills, and the proposal is to split lot 32 into equal parts and combine each half into the adjacent lot, being lots 31 and 33. Lot 32 is a buildable lot that currently does not have an existing home. No right-of-way is being dedicated on the record plan. The record plan will proceed to Council for final approval.

Staff Recommendation

Staff recommends APPROVAL of the record plan, contingent on meeting the following comments:

1. Revise title block to read Record Plan, Greenleaf Village Section One-A.
2. Add all appropriate language for title block, Dedication statement, and Notes as provided by the City.
3. Submit to Warren County for review and make any necessary changes.

The information contained in this report is based on material provided to the City of Springboro as of Thursday, September 24, 2020 at 5:00 p.m.

CITY OF SPRINGBORO PLANNING COMMISSION

Application
Case # _____

RECEIVED

JUL 29 2020

Springboro
Planning Department

☒ SITE PLAN ☐ REVISION TO APPROVED SITE PLAN ☐ CONCEPT PLAN ☐ PRELIMINARY SUBDIVISION ☐ RECORD PLAN

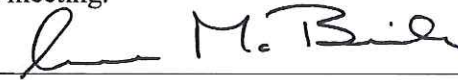
The undersigned requests site plan approval for the use specified below. Should this application be approved, it is understood that it shall only authorize that particular use described in this application, subject to any conditions or safeguards required by the Planning Commission. If the construction of the building or site improvements or activities are not started within 6 months after date of approval by the Planning Commission, the approval of this site plan shall become null and void.

☐ Owner **APPLICANT'S NAME:** Anne McBride - McBride Dale Clarion
☒ Agent 5721 Dragon Way, Suite 300
☐ Lessee Cincinnati, OH 45227
☐ Signed Purchase Telephone No. (513) 561-6232
Contract Fax No. (513) 561-1615
Email Address amcbride@mcbridedale.com

PROPERTY OWNER'S NAME: Kroger Co.
Address: 1014 Vine Street, 7th floor
Cincinnati, OH 45202
Telephone No. ()

Address of Property: 625 W. Central Avenue Lot Number: N/A
Existing Use: Kroger store, vacant K-Mart, restaurant Zoning District: HBD
Proposed Use:
Kroger store and fuel sales, retail space, restaurant

NOTE: Applicant will furnish 5 paper copies of plans and one electronic copy with attached requirements. **Please note that paper copies plans submitted with this proposal must be pre-folded.** The applicant or a representative who is authorized to speak on behalf of the request must also be present at the meeting.

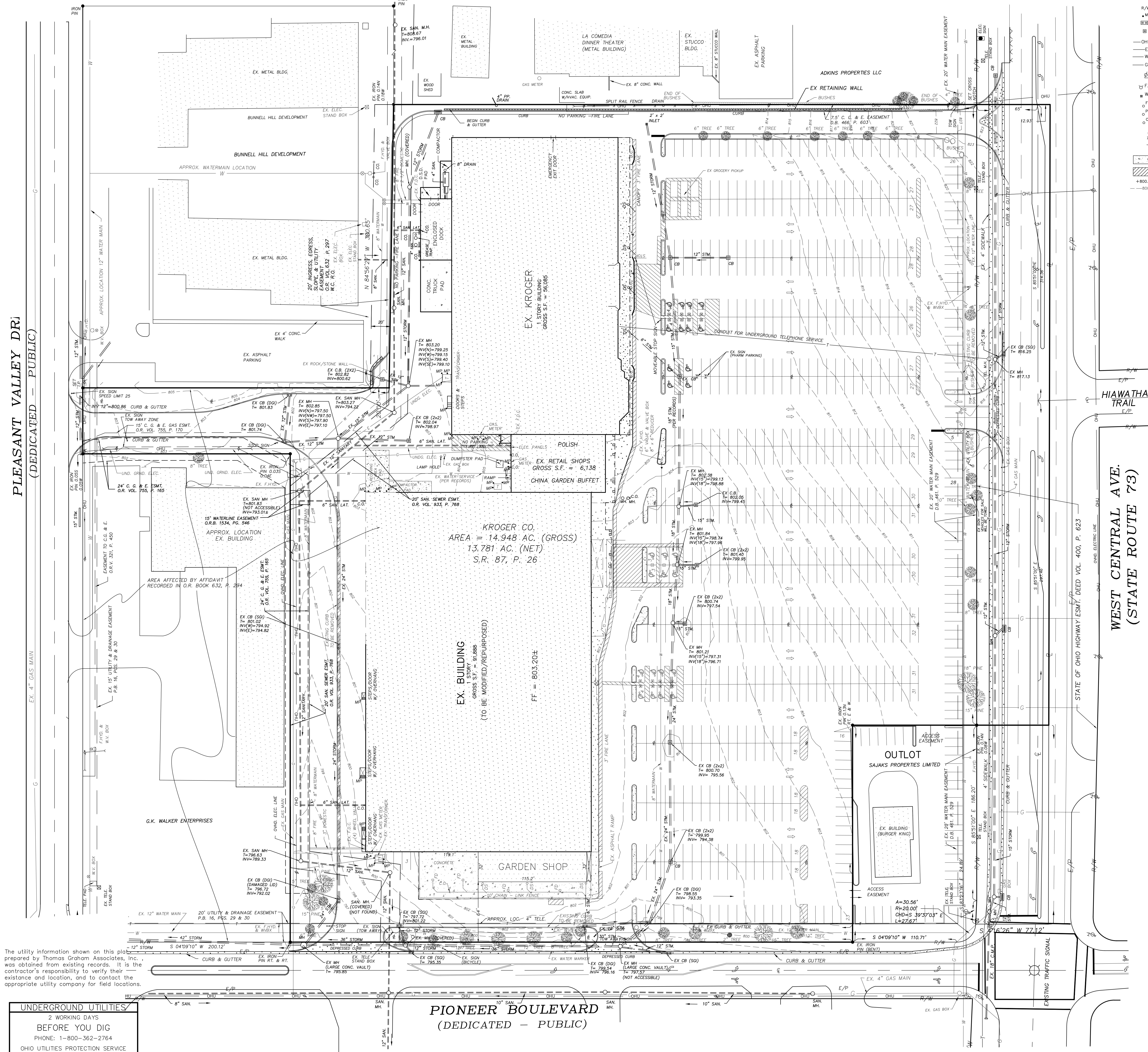
 07/28/2020
(Signature of Applicant and/or Agent) (Date)

FOR OFFICIAL USE ONLY

Date Filed: _____, 20____ ¹ Landscape Plan ¹ Lighting Plan
Date Paid: _____, 20____ CK# _____ Receipt# _____
Date of Meeting: _____, 20____ ¹ Granted ¹ Denied

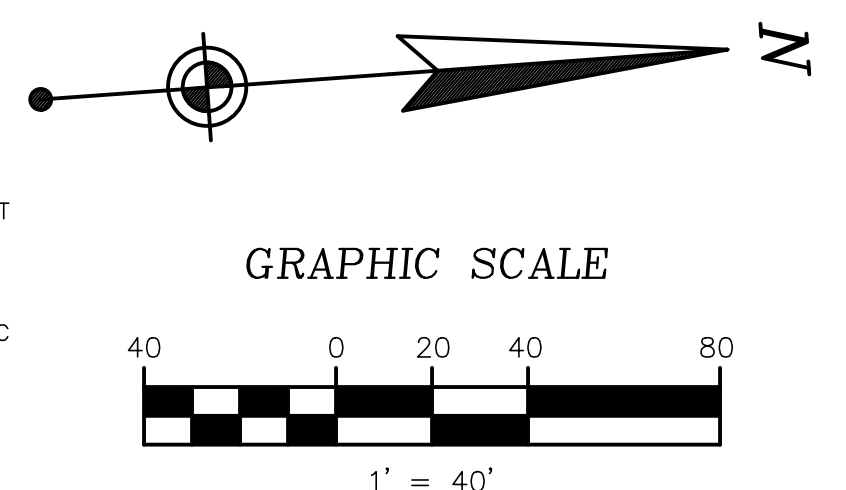
Conditions:

PLEASANT VALLEY DR.
(DEDICATED - PUBLIC)



LEGEND

- R/W INDICATES RIGHT OF WAY
- MP INDICATES METAL POST
- 2x2 INDICATES EX. SINGLE GRATE INLET
- OHU INDICATES OVERHEAD UTILITIES
- E INDICATES UNDERGROUND ELECTRIC
- W INDICATES UNDERGROUND WATER
- G INDICATES UNDERGROUND GAS
- INDICATES LIGHT POLE
- FHYD INDICATES FIRE HYDRANT
- WVBX INDICATES WATER VALVE BOX
- FDC INDICATES FIRE DEPARTMENT CONNECTION
- PV INDICATES POST INDICATOR VALVE
- CO INDICATES CLEAN OUT
- INDICATES UTILITY POLE
- INDICATES GUY WIRE
- INDICATES EX. CONCRETE PAVEMENT
- INDICATES EX. PAVEMENT STRIPING
- INDICATES EX. SPOT GRADE
- INDICATES EX. CONTOUR



tga
THOMAS
GRAHAM
ASSOCIATES, INC.
• Engineers
• Surveyors
803 Compton Road
Cincinnati, Ohio 45231
513-521-4760
Fax # 521-2439

Date:	SEPT. 10, 2020
Scale:	1" = 40'
Job No:	6079
Revisions	
No.	Date

EXISTING CONDITIONS PLAN

SPRINGBORO PLAZA SHOPPING CENTER
SEC. 20, T. 2E, R. 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO



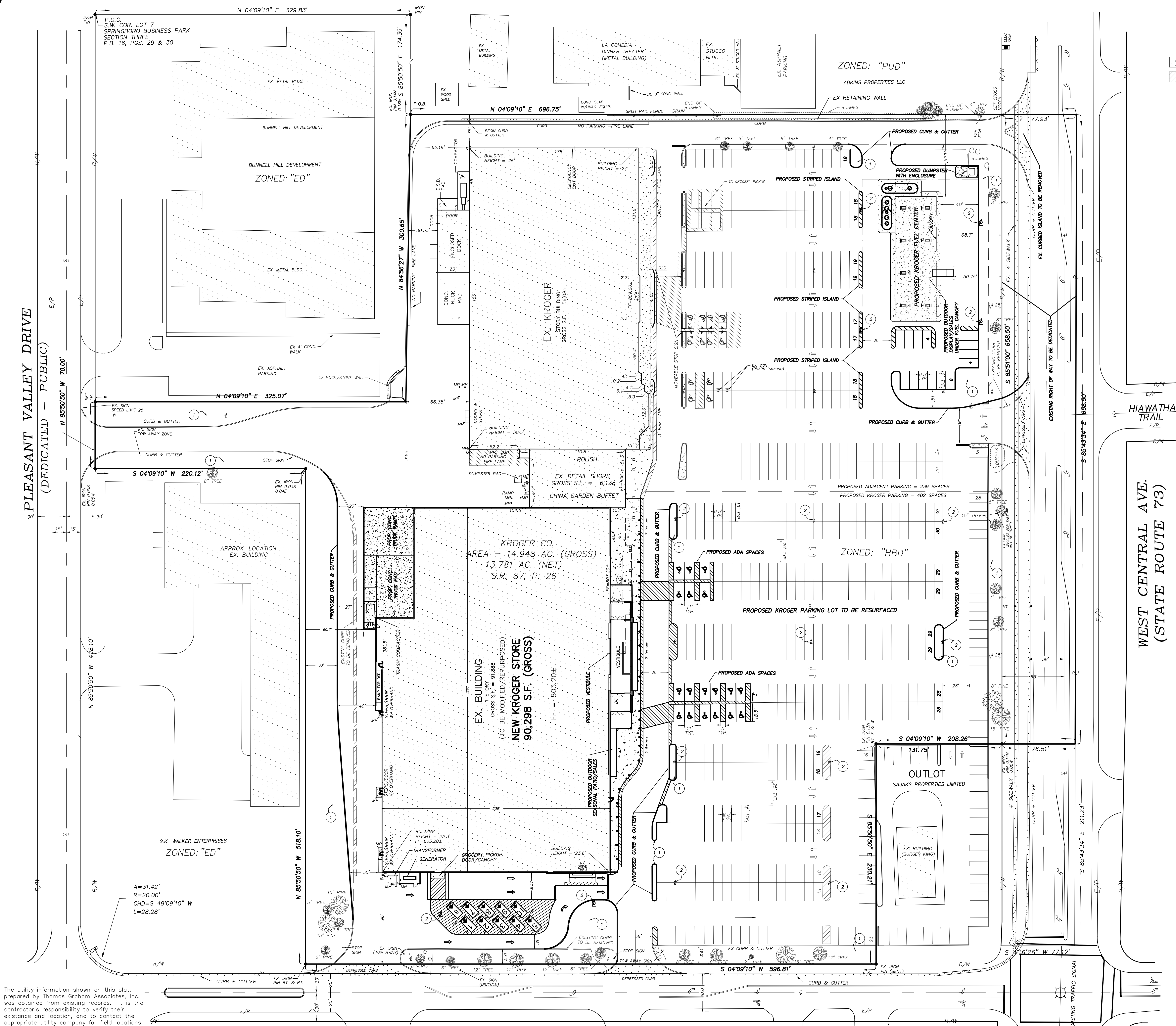
The utility information shown on this plan was prepared by Thomas Graham Associates, Inc., and is obtained from existing records. It is the contractor's responsibility to verify the existence and location, and to contact the appropriate utility company for field locations.

UNDERGROUND UTILITIES
2 WORKING DAYS
BEFORE YOU DIG
PHONE: 1-800-362-2764
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS MUST BE CALLED DIRECTLY

PIONEER BOULEVARD
(DEDICATED - PUBLIC)

KROGER
STORE # **925-A**
Drawn By: **R.J. TRENKAMP**
Sheet
CO.0
Job No: 6079-19

PLEASANT VALLEY DRIVE
(DEDICATED - PUBLIC)



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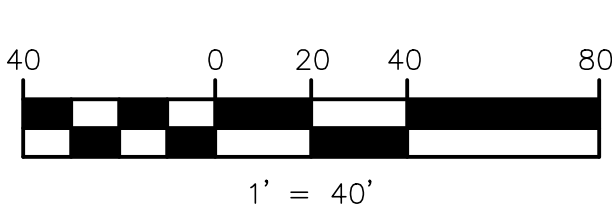
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PIONEER BOULEVARD
(DEDICATED - PUBLIC)

LEGEND

- R/W
- INDICATES RIGHT OF WAY
- INDICATES CONCRETE PAVEMENT
- INDICATES PAVEMENT STRIPING
- INDICATES METAL POST
- INDICATES EXISTING LIGHT POLE
- INDICATES PROPOSED LIGHT POLE

GRAPHIC SCALE



BASIS OF BEARINGS

RIGHT OF WAY PLANS
ELEVATIONS BASED ON GPS OBSERVATIONS
NAVD-88, GEOID 12B

ZONING INFORMATION

THE PROPERTY IS ZONED "HBD" - HIGHWAY BUSINESS DISTRICT
SITE AREA = 14.948 ACRES (GROSS) / 13.781 ACRES (NET)
(EXISTING W. CENTRAL AVE RIGHT OF WAY TO BE DEDICATED)
PARKING ANALYSIS FOR NEW KROGER STORE (90,298 S.F.)
REQUIRED = 226 SPACES (1 SPACE/400 SF)
PROVIDED = 402 SPACES

KEYNOTES

- SEE SEPARATE LANDSCAPE PLAN BY OTHERS FOR DETAILS OF LANDSCAPED AREAS.
- SEE SEPARATE LIGHTING PLAN BY OTHERS FOR LIGHT POLE DETAILS AND SITE PHOTOMETRICS.

WEST CENTRAL AVE.
(STATE ROUTE 73)



VICINITY MAP
N.T.S.



THOMAS
GRAHAM
ASSOCIATES, INC.

- Engineers
- Surveyors

803 Compton Road
Cincinnati, Ohio 45231
513-521-4760
Fax # 521-2439

Date: **SEPT. 10, 2020**

Scale: **1" = 40'**

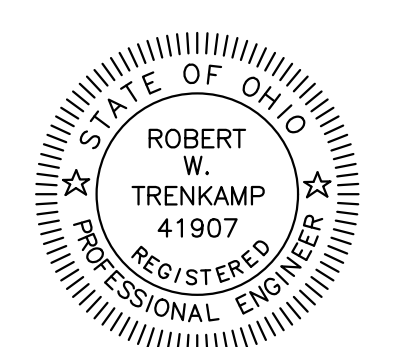
Job No: **6079**

Revisions

No. Date

SITE LAYOUT PLAN

SPRINGBORO PLAZA SHOPPING CENTER
SEC. 20, T. 2E, R. 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO



KROGER
STORE # **925-A**
Drawn By: **R.J. TRENKAMP**

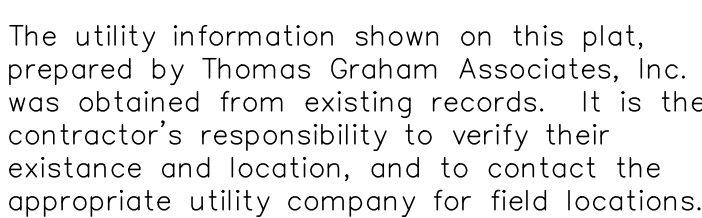
Sheet

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Job No: **6079-19**

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LEGEND

LEGEND



LEGEND



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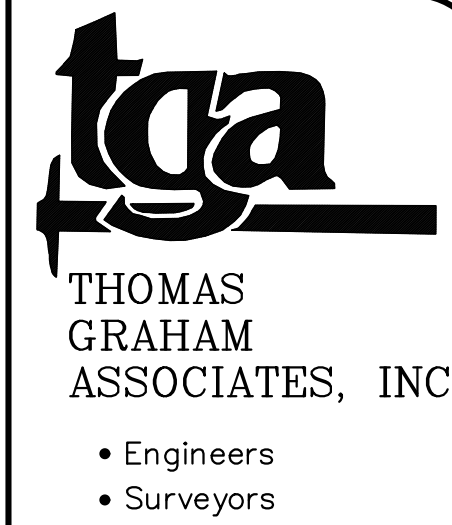
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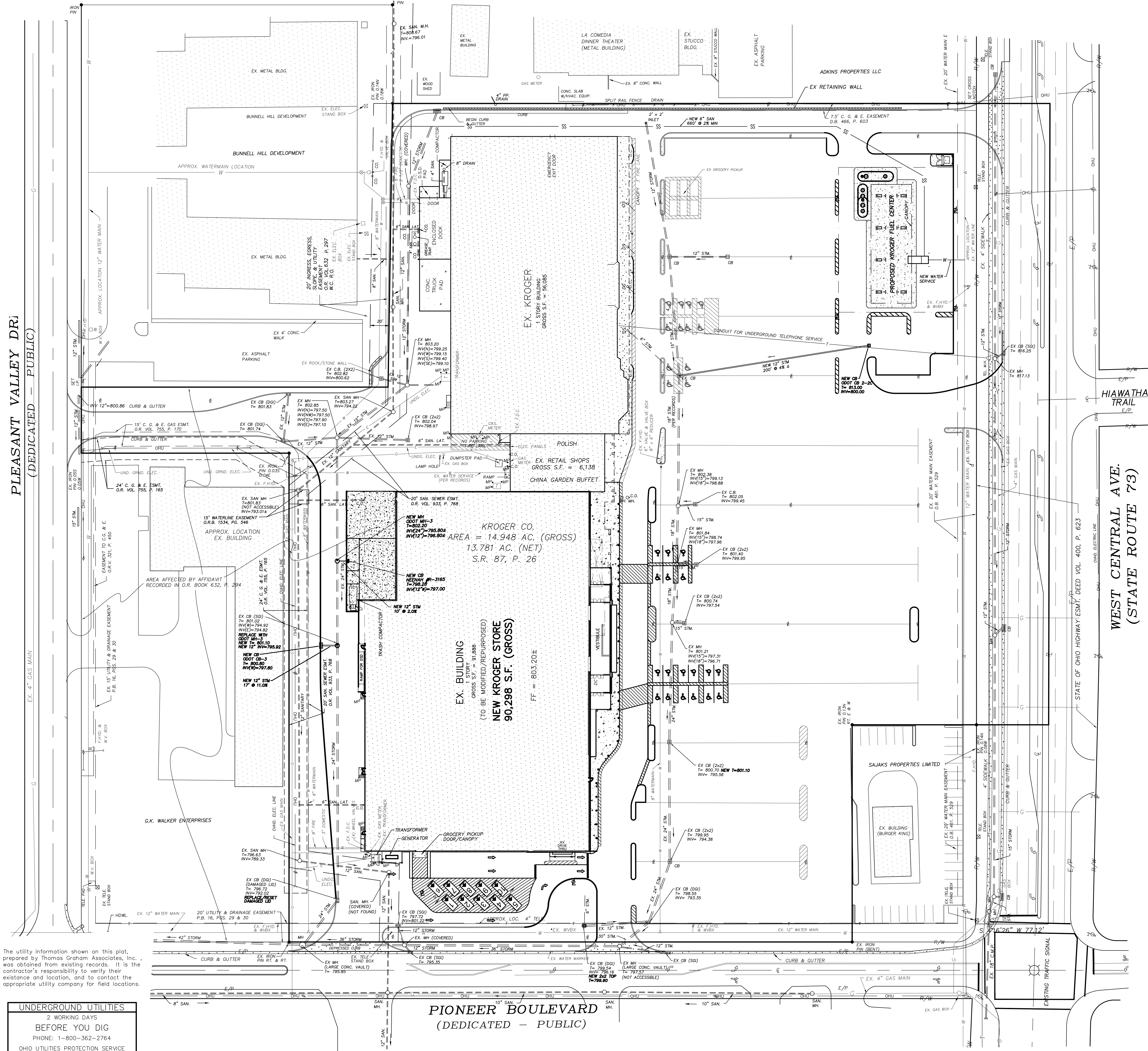
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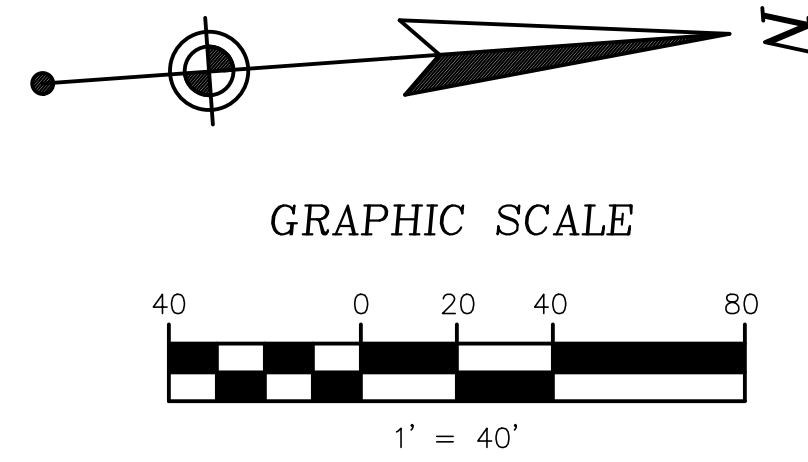
PLEASANT VALLEY DR
(DEDICATED - PUBLIC)



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PIONEER BOULEVARD
(DEDICATED - PUBLIC)



LEGEND

- R/W INDICATES RIGHT OF WAY
- MP INDICATES METAL POST
- DGR INDICATES EX. SINGLE GRATE INLET
- 2x2 INDICATES EX. INLET (2'X2')
- OHU INDICATES OVERHEAD UTILITIES
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- LP INDICATES LIGHT POLE
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- P.I.V INDICATES POST INDICATOR VALVE
- C.O INDICATES CLEAN OUT
- U INDICATES UTILITY POLE
- GUY INDICATES GUY WIRE

SITE UTILITY PLAN

SPRINGBORO PLAZA SHOPPING CENTER
SEC. 20, T. 2E, R. 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO

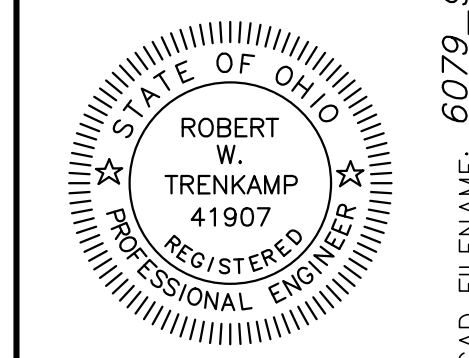
Date: SEPT. 10, 2020
Scale: 1" = 40'
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Revisions	
No.	Date

KROGER
STORE # **925-A**
Drawn By: R.J. TRENKAMP

Sheet
C3.0
Job No: 6079-19

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ACAD FILENAME: 6079_925-BASE.DWG



	LIMITS OF DISTURBANCE
	EXISTING CONTOUR ELEVATION
	PROPOSED CONTOUR ELEVATION
	DIRECTION OF OVERLAP
	TEMPORARY PARKING AREA (MINIMUM 40,000 S.F.) (CONTRACTOR TO IDENTIFY)
	TEMPORARY SOIL STOCKPILE (CONTRACTOR TO IDENTIFY) INSTALL TEMPORARY STOCKPILE COMPLETELY AROUND

— SF —	SF	TEMPORARY SILT FENCE (CONTRACTOR TO STATION ON PLAN AFTER INSTALLATION)
	IP1	INLET SEDIMENT CONTROL DEVICE (DANDY SACK)
	IP2	INLET SEDIMENT CONTROL DEVICE (DANDY CURB SACK)
	TT	TEMPORARY TOILETS (CONTRACTOR TO IDENTIFY LOCATION)
	FT	MOBILE FUEL TANKS (CONTRACTOR TO IDENTIFY LOCATION)
	CW	CONCRETE WASHOUT (CONTRACTOR TO IDENTIFY LOCATION)
	OF	STORM OUTFALL POINTS (CONTRACTOR TO MONITOR THROUGHOUT CONSTRUCTION)

STAGE I - INSTALL STAGE 1 PERMETER SILT FENCE AND INLET SEDIMENT CONTROL DEVICES (P1 & P2) AS SHOWN.
DO NOT BEGIN STAGE II UNTIL STAGE I MEASURES ARE IN PLACE.

STAGE II - STRIP TOPSOIL, STOCKPILE OR HAUL OFF.
TOPSOIL (CONTRACTOR SHOULD KEEP AS MUCH STOCKPILE TOPSOIL ON SITE IN ORDER TO SATISFY THE KROGER LANDSCAPE SPECIFICATIONS) SPECIFICATIONS. STOCKPILE WITH SILT FENCES AROUND THE TOP OF SLOPES. SEED TOPSOIL STOCKPILE AND BEGIN CUT AND FILL OPERATIONS IN BUILDING AND PARKING AREAS.

STAGE III - AS SOON AS STAGE II IS COMPLETE AND BUILDING PAD AND PARKING AREAS HAVE BEEN SURFACED WITH COMPLET, ALL OTHER GRADING AND DRAINAGE STRUCTURES ALSO COMPLETED AT THIS TIME. DO NOT BEGIN STAGE IV UNTIL STAGE III MEASURES ARE COMPLETE.

STAGE IV - AS SOON AS STRUCTURAL LIFTS ARE COMPLETED, SPREAD TOPSOIL ON FACE OF SLOPES AND ON PROPOSED GRASSED AREAS. IMMEDIATELY SEED AND/OR SOO (WHERE SO INDICATED ON SITE PLANTING PLAN) FERTILIZE, AND WATER ALL TOPSOIL CONTAINING AREAS IN ACCORDANCE WITH STEVE SPECIFICATIONS.

The utility information shown on this plat, prepared by Thomas Graham Associates, Inc., was obtained from existing records. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.

- a. THIS PROJECT INCLUDES THE REDEVELOPMENT OF AN EXISTING SHOPPING CENTER. KROGER IS MOVING TO THE VACANT BUILDING PREVIOUSLY OCCUPIED BY K-MART, AND A NEW KROGER FUEL CENTER IS BEING CONSTRUCTED.
- b. TOTAL SITE AREA = 14.95 ACRES (GROSS) / 13.781 ACRES (NET)
TOTAL AREA EXPECTED TO BE DISTURBED = 3.0 ACRES ± (SEE LIMITS OF DISTURBANCE ON SHEET EC1.0)
- c. RUNOFF COEFFICIENTS "C"
PRE DEVELOPMENT = .80
POST DEVELOPMENT = .30
- d. IMPERVIOUS AREAS
PRE DEVELOPMENT = 12.5 ACRES ±
POST DEVELOPMENT = 12.5 ACRES ±
- e. EXISTING SOILS ON SITE INCLUDE: Br, Brookston silt clay loam, fine-silty, 0-2% slopes.
DdG, Dong silt loam, 2-5% slopes
Rv2, Russell-Miamon silt loams, 2-6% slopes, moderately eroded.
- f. THE EXISTING SITE IS COMPRISED OF AN EXISTING KROGER STORE AND VACANT BUILDING PREVIOUSLY OCCUPIED BY KROGER.
- g. THE SITE DRAINS TO AN UNNAMED TRIBUTARY OF CLEAR CREEK, WHICH IS A TRIBUTARY OF THE GREAT MIAMI RIVER.

Shoulders, side ditches, slopes (maximum 3:1)

Date	Type	Planting Rate	
Nov 15–Nov 01	Tall Fescue	120 lbs./acre	
Nov 01–Mar 01	Tall Fescue	120 lbs./acre	
	& Abuzzi Rye	25 lbs./acre	
Mar 01–Apr 15	Tall Fescue	120 lbs./acre	
Apr 15–Jul 30	Hulled Common	Bermuda Grass	12 lbs./acre
Jul 15–Aug 15	Tall Fescue and	60 lbs./acre	
	Browntop millet	35 lbs./acre	
	Or sorghum–sudan hybrids	30 lbs./acre	

- 1) Chisel compacted areas and spread topsoil 3 inches deep over adverse soil conditions.
- 2) Rip the entire area to 6 inches depth.
- 3) Remove all loose rock, roots, and other obstructions leaving surface reasonably smooth and uniform.
- 4) Apply agricultural lime, fertilizer, and superphosphate uniformly and mix with soil (see below).
- 5) Continue tillage until a well-pulverized, firm, reasonably uniform seedbed is prepared 4 to 6 inches deep.
- 6) Seed on a freshly prepared seedbed and cover seed lightly with seeding equipment or cultipack after seeding.
- 7) Mulch immediately after seeding and anchor mulch.
- 8) Inspect all seeded areas and make necessary repairs of reseedings within the planting season, if possible if stand should be over 60% damaged, reestablish following original lime, fertilizer and seeding rates.
- 9) Consult conservation inspector on maintenance treatment and fertilization after permanent cover is established.

Apply: Agricultural Limestone - 2 ton/acre	Temporary seeding mixture (if required):
Fertilizer - 1000 lbs./acre - 10-10-10	500 lbs./acre
Superphosphate - 500 lbs./acre - 20%	3000 tall fescue
Mulch - 2 tons/acre - Gramston	30% sericea lespedeza
Anchor - Asphalt Emulsion - 300 gals./acre	20% rye grain

803 Compton Road
Cincinnati, Ohio 45231
513-521-4760
Fax # 521-2439

Date: SEPT. 10, 2020

Scale: $1'' = 40'$

Job No: 6079

Revisions

No.	Date
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- A. THE STORMWATER POLLUTION PREVENTION PLAN IS COMPOSED OF THIS STATEMENT OF WORK, THE STORMWATER POLLUTION PREVENTION PLAN, PLUS THE PERMIT AND ALL SUBSEQUENT REVISIONS AND RELATED DOCUMENTS.
- B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORMWATER POLLUTION PREVENTION SHALL BE REQUIRED TO FOLLOW THE STORMWATER POLLUTION PREVENTION PLAN AND THE STA OF THE STORMWATER POLLUTION PREVENTION PLAN. THE STORMWATER POLLUTION PREVENTION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
- C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE NPDES PERMIT. BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED WITHOUT THE NEED FOR ANY ADDITIONAL COST TO OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- D. BEST MANAGEMENT PRACTICES (BMP'S) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICES, AS APPLICABLE. CONTRACTOR SHALL MAINTAIN ALL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
- E. PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPOSING STATE WATERS OR WATERS OF THE UNITED STATES MUST BE OBTAINED BY THE CONTRACTOR.
- F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICABLE OR AS REQUIRED BY THE PERMIT.
- G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AREA FOR CONSTRUCTION EQUIPMENT AND MATERIALS. THE TEMPORARY PARKING AREA SHALL BE MAINTAINED AND USED FOR THE EXCLUSIVE PURPOSES OF MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR STORAGE OF MATERIALS AND EQUIPMENT.
- H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC) SHALL BE OBTAINED, PROPERLY TREATED AND/OR DISPOSED. CONTRACTOR SHALL PROVIDE A DRAINAGE SYSTEM TO COLLECT AND CONVEY FOR THE WASH RUNOFF IN A PLACE AWAY FROM THE STORM SEWER. CONTRACTOR SHALL PROVIDE THE DRAINAGE SYSTEM TO THE STORM SEWER. CONTRACTOR SHALL BE RESPONSIBLE TO DRAIN TO STORM SEWER SYSTEM. THIS AREA TO BE DELINEATED ON THE STORMWATER POLLUTION PREVENTION PLAN.

SEC. 20, T. 2E, R. 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO

KROGER 925-4

STORE # _____
S. B. C. TRENKAMP

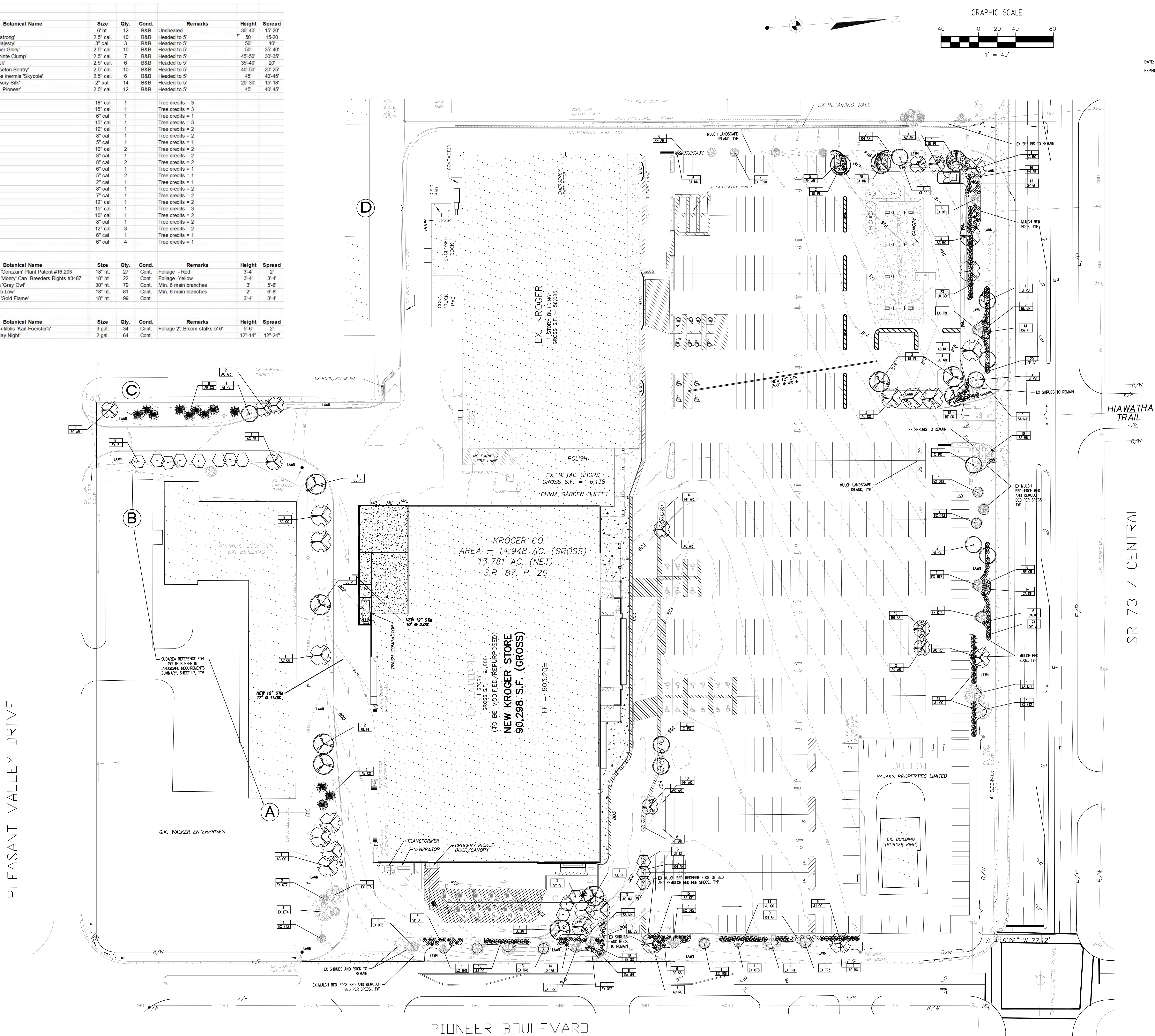
Sheet

EC1 0

Job No: 6079 20

ACAD_FILE_NAME: 6079 925 BASE.DWG

Plant Schedule											
Trees											
Code	Common Name	Botanical Name	Size	Qty.	Cond.	Remarks	Height	Spread			
AB CO	White Fir	Abies concolor	6' ht.	12	B&B	Unsheared	30'-40'	15'-20'			
AC AR	Armstrong Maple	Acer freemanii 'Armstrong'	2.5' cal.	10	B&B	Headed to 5'	50	15-20			
AC MJ	Majesty Sugar Maple	Acer saccharum 'Majesty'	3' cal.	3	B&B	Headed to 5'	50'	10'			
AC OG	October Glory Maple	Acer rubrum 'October Glory'	2.5' cal.	10	B&B	Headed to 5'	50'	38'-40'			
AC RC	Redpointe Red Maple Clump	Acer rubrum 'Redpointe Clump'	2.5' cal.	7	B&B	Headed to 5'	45'-50'	30'-35'			
AC RK	Karick Red Maple	Acer rubrum 'Karick'	2.5' cal.	6	B&B	Headed to 5'	35'-40'	20'			
GI PS	Princeton Sentry Ginkgo	Ginkgo biloba 'Princeton Sentry'	2.5' cal.	10	B&B	Headed to 5'	40'-50'	20'-25'			
SL SK	Skyline Honeylocust	Gleditsia triacanthos inermis 'Skycole'	2.5' cal.	3	B&B	Headed to 5'	45'	40'-45'			
SY IS	Ivory Silk Tree Lilac	Syringa reticulata 'Ivory Silk'	2" cal.	14	B&B	Headed to 5'	20'-30'	15'-18'			
UL PL	Pioneer Elm	Ulmus x hollandica 'Pioneer'	2.5' cal.	12	B&B	Headed to 5'	45'	40'-45'			
EX ET1	Ex Evergreen Tree		18" cal	1		Tree credits = 3					
EX ET2	Ex Evergreen Tree		15" cal	1		Tree credits = 3					
EX ET3	Ex Evergreen Tree		6" cal	1		Tree credits = 1					
EX ET4	Ex Evergreen Tree		15" cal	1		Tree credits = 3					
EX ET5	Ex Evergreen Tree		10" cal	1		Tree credits = 2					
EX OT1	Ex Ornamental Tree		8" cal	1		Tree credits = 2					
EX OT2	Ex Ornamental Tree		5" cal	1		Tree credits = 1					
EX OT3	Ex Ornamental Tree		10" cal	2		Tree credits = 2					
EX OT4	Ex Ornamental Tree		8" cal	1		Tree credits = 2					
EX OT5	Ex Ornamental Tree		8" cal	2		Tree credits = 2					
EX OT6	Ex Ornamental Tree		6" cal	1		Tree credits = 1					
EX OT7	Ex Ornamental Tree		5" cal	2		Tree credits = 1					
EX OT8	Ex Ornamental Tree		2" cal	1		Tree credits = 1					
EX TR1	Ex Shade Tree		8" cal	1		Tree credits = 2					
EX TR2	Ex Shade Tree		7" cal	1		Tree credits = 2					
EX TR3	Ex Shade Tree		12" cal	1		Tree credits = 2					
EX TR4	Ex Shade Tree		15" cal	1		Tree credits = 3					
EX TR6	Ex Shade Tree		10" cal	1		Tree credits = 2					
EX TR7	Ex Shade Tree		8" cal	1		Tree credits = 2					
EX TR8	Ex Shade Tree		12" cal	1		Tree credits = 2					
EX TR9	Ex Shade Tree		8" cal	1		Tree credits = 1					
EX TR10	Ex Shade Tree		6" cal	4		Tree credits = 1					
Shrubs											
Code	Common Name	Botanical Name	Size	Qty.	Cond.	Remarks	Height	Spread			
BE GR	Golden Ruby Barbary	Berberis thunbergii 'Gonzam' Plant Patent #16,203	18" ht.	27	Cont.	Foliage - Red	2'	3'-4'			
BE SS	Sunation® Japanese Barbary	Berberis thunbergii 'Monyi' Can. Breeders Rights #3487	18" ht.	22	Cont.	Foliage - Yellow	3'-4'	3'-4'			
JU GO	Grey Owl Juniper	Juniperus virginiana 'Grey Owl'	30" ht.	79	Cont.	Min. 6 main branches	3'	5'-6'			
RH AR	Gro-Low Sumac	Rhus aromatica 'Gro-Low'	18" ht.	81	Cont.	Min. 6 main branches	2'	6'-8'			
SP GF	Gold Flame Spiraea	Spiraea x bumalda 'Gold Flame'	18" ht.	99	Cont.		3'-4'	3'-4'			
Perennials, Groundcovers, and Grasses											
Code	Common Name	Botanical Name	Size	Qty.	Cond.	Remarks	Height	Spread			
CA KF	Karl Foerster's Feather Reed Grass	Calamagrostis x acutiflora 'Karl Foerster's'	3 gal.	34	Cont.	Foliage 2'; Bloom stalks 5'-6'	5'-6'	2'			
SA MN	May Night Meadow Sage	Salvia nemorosa 'May Night'	2 gal.	64	Cont.		12"-14"	12"-24"			



DATE: SEPT 10, 2020
EXPIRES: DECEMBER 31, 2020

Jacobs
2 CROWNE POINT COURT
CINCINNATI, OHIO 45241
PH 513-595-7915
FAX 513-595-7939
WWW.JACOBS.COM

Date: SEPT 10, 2020

Scale: 1" = 40'

Job No: F7X99000-WBS 031

Revisions

No.	Date
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LANDSCAPE PLAN

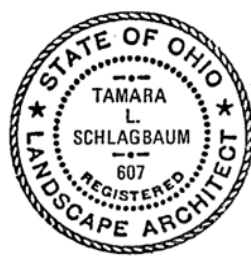
SPRINGBORO PLAZA SHOPPING CENTER
SECTION 209, TOWN 2E, RANGE 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO

KROGER 025 A

STORE # DEPT. 11
DEPT. Bldg. T. SCHULAC

Sheet 1 of 1

Job No: 57X99000-1 (PS 03PR)



DATE: SEPT 10, 2020
EXPIRES: DECEMBER 31, 2020

Jacobs
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CINCINNATI, OHIO 45241
PH 513-595-7915
FAX 513-595-7939
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Date: SEPT 10, 2020
Scale: AS SHOWN
Job No: F7X99000-WBS 03DD

Revisions
No. Date

LANDSCAPE PLAN
SPRINGBORO PLAZA SHOPPING CENTER
SECTION 209, TOWN 2E, RANGE 3N
CLERMONT TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO

LANDSCAPING ADJACENT TO ROADS* & PARKING LOT SCREENING** - 1280.04 (c, d, e[1]):

State Route 73 596.50 feet (658.50 – 25' Drive – 37' Drive)

Plant Material	Required	To Be Provided	Comment
Width**	30 feet	14.5 feet	Existing condition
Shade or Evergreen Tree* (1 Tree per 40' frontage)	15	23	12 Tree Credits o 6 credits (3 - Existing 6.01"-14" tree) o 6 credits (2 - Existing 14.01"-20" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree
Ornamental Tree* (1 Tree per 100' frontage)	6	7	7 Tree Credits o 1 credit (1 - Existing 4"-6" tree) o 6 credits (3 - Existing 6.01"-14" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree
Shrubs* (1 Shrubs per 5' frontage); and Shrubs** 3' high evergreen landscape	120	147	A mix of evergreen and deciduous shrubs are proposed • 136 New • 23 Existing

Pioneer Boulevard 497.81 feet (596.81 – 62' Drive – 37' Drive)

Plant Material	Required	To Be Provided	Comment
Width	No Requirement	Varies 15' to 20'	
Shade or Evergreen Tree* (1 Tree per 40' frontage)	13	16	15 Tree Credits o 2 credits (2 - Existing 4"-6" tree) o 10 credits (5 - Existing 6.01"-14" tree) o 3 credits (1 - Existing 14.01"-20" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree
Ornamental Tree* (1 Tree per 100' frontage)	5	7	7 Tree Credits o 1 credits (1 - Existing 4"-6" tree) o 6 credits (3 - Existing 6.01"-14" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree
Buffer Tree** (1 Tree per 20' frontage w/ min of 50% Evergreen)	25	24	50% of the trees (12 trees) are required to be Evergreen • 1 Evergreen tree credit is provided (4% provided)
Shrubs* (1 Shrubs per 5' frontage); and Shrubs*** 3' high evergreen landscape	100	104	A mix of evergreen and deciduous shrubs are proposed • 100 New • 4 Existing

PARKING AREA LANDSCAPE:

Parking Spaces 643 Parking Spaces

Plant Material	Required	Provided	Comment
Area (10sf per parking space w/ min area 150sf per island)	6,430 sf	9,803 sf	
Trees (1 Tree per 300 sf of interior landscape area parking spaces)	22 (22x1 tree/300sf for 6430 sf provided landscape area)	37	Request City's credits for maintaining ex trees in bufferyards and setbacks. 8 Tree Credits o 8 credits (4 - Existing 6.01"-14" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree
Shrub/Groundcover (50% of landscape area covered)	3210 sf covered	8,716 sf covered	

BUFFER REQUIREMENTS

North-Commercial (HBD) to State Route (SR 73) 596.50 feet (658.50 – 25' Drive – 37' Drive)

Plant Material	Required	Provided	Comment
Buffer Tree** (1 Tree per 20' frontage w/ min of 50% Evergreen)	30	30	50% of the trees (15 trees) are required to be Evergreen • 6 Evergreen tree credits are provided (20% provided) Provided in Shade or Evergreen Tree* and Ornamental Tree* Requirements directly above in chart for LANDSCAPING ADJACENT TO ROADS* & PARKING LOT SCREENING**

East-Commercial (HBD) to Existing Right-of-way (Pioneer Blvd) 497.81 feet (596.81 – 62' Drive – 37' Drive)

Plant Material	Required	Provided	Comment
No Buffer Requirements			

South-Commercial (HBD) to ED 1365.94 feet (Subareas: A=518.10, B=222.12, C=325.07, D=300.65)

Plant Material	Required	Provided	Comment
Width	20 feet	0 feet-49.47 feet	
Tree (1 tree per 25 feet, w/ min 40% evergreen)	55 • A= 21 • B= 9 • C= 13 • D= 12	43 • A= 21 o 7 credits o 14 new • B= 9 • C= 13 • D= 0 – No landscape area	7 Tree Credits o 2 credit (2 - Existing 4"-6" tree) o 2 credits (1 - Existing 6.01"-14" tree) o 3 credits (1 - Existing 14.01"-20" tree) Credits for maintaining the existing trees: • 1 tree credit per Existing 4"-6" tree • 2 tree credits per Existing 6.01"-14" tree • 3 tree credits per Existing 14.01"-20" tree 58% Evergreen Provided (includes tree credits)

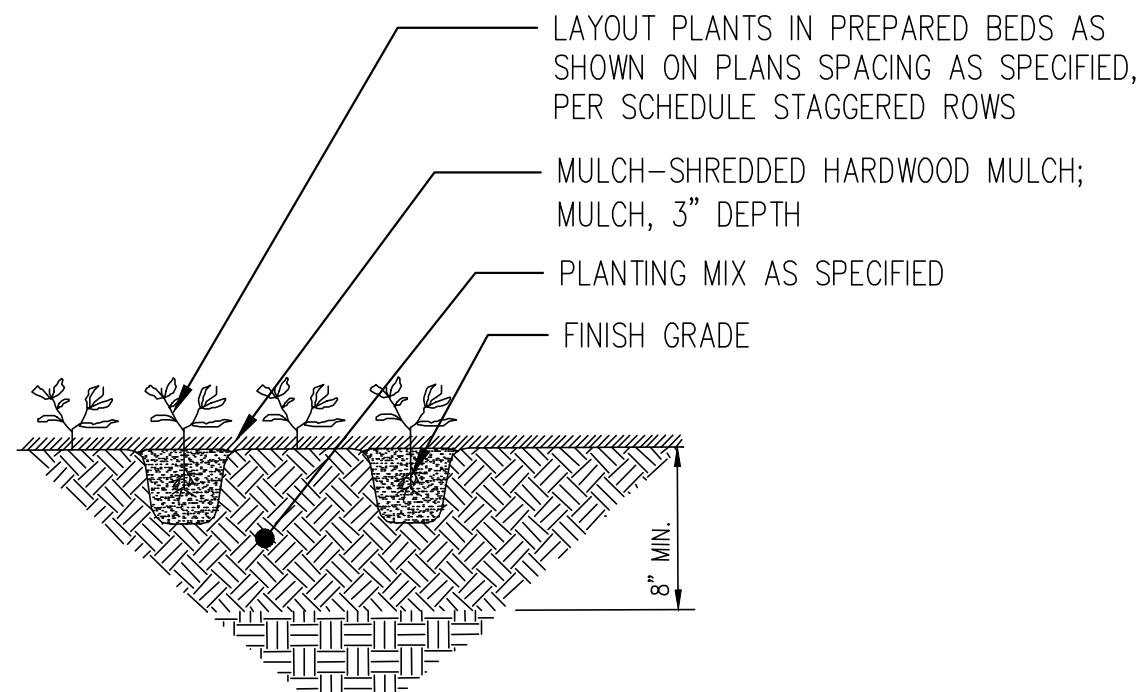
West-Commercial (HBD) to PUD (Underlying HBD) 696.75 feet

Plant Material	Required	Provided	Comment
No Buffer Requirements		280 lf shrub hedge	Existing condition

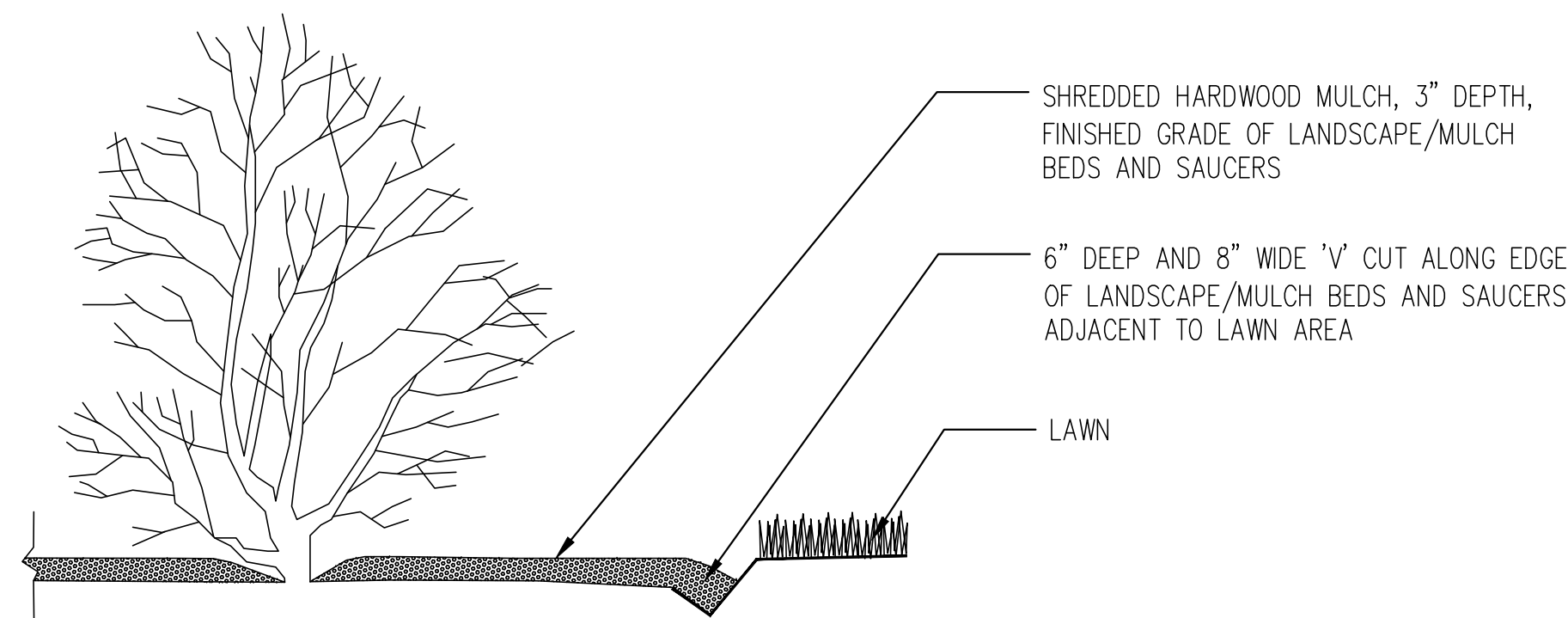
SITE LANDSCAPE

Site Area: 604,220 sq. ft. (14,948 ac gross / 13,871 ac net)

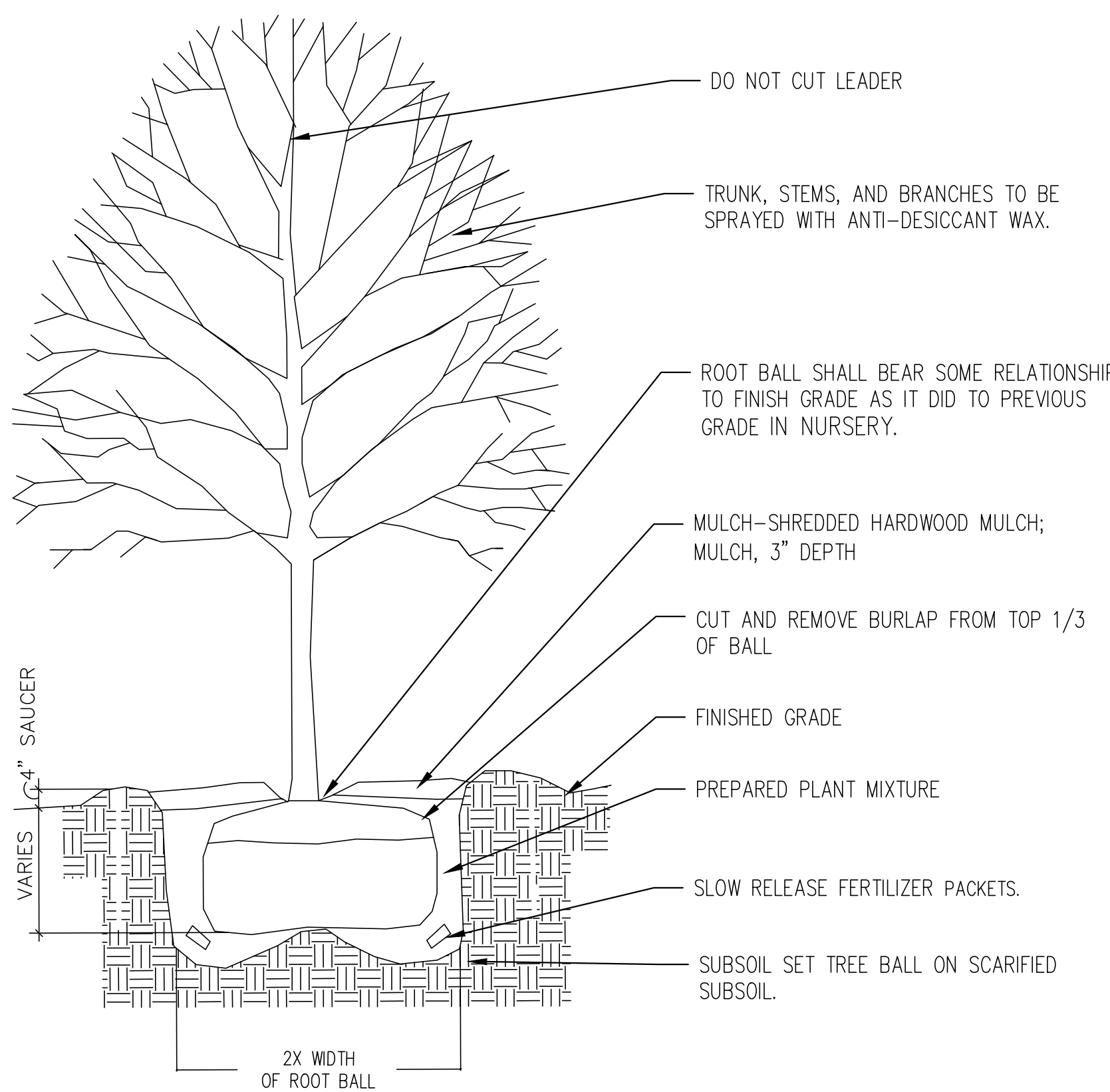
Plant Material	Required	Provided	Comment
Tree (1 tree per 3000 sq ft of lot area)	202	20	Site area trees are trees included in other landscape requirements that exceed the 'Required' quantity



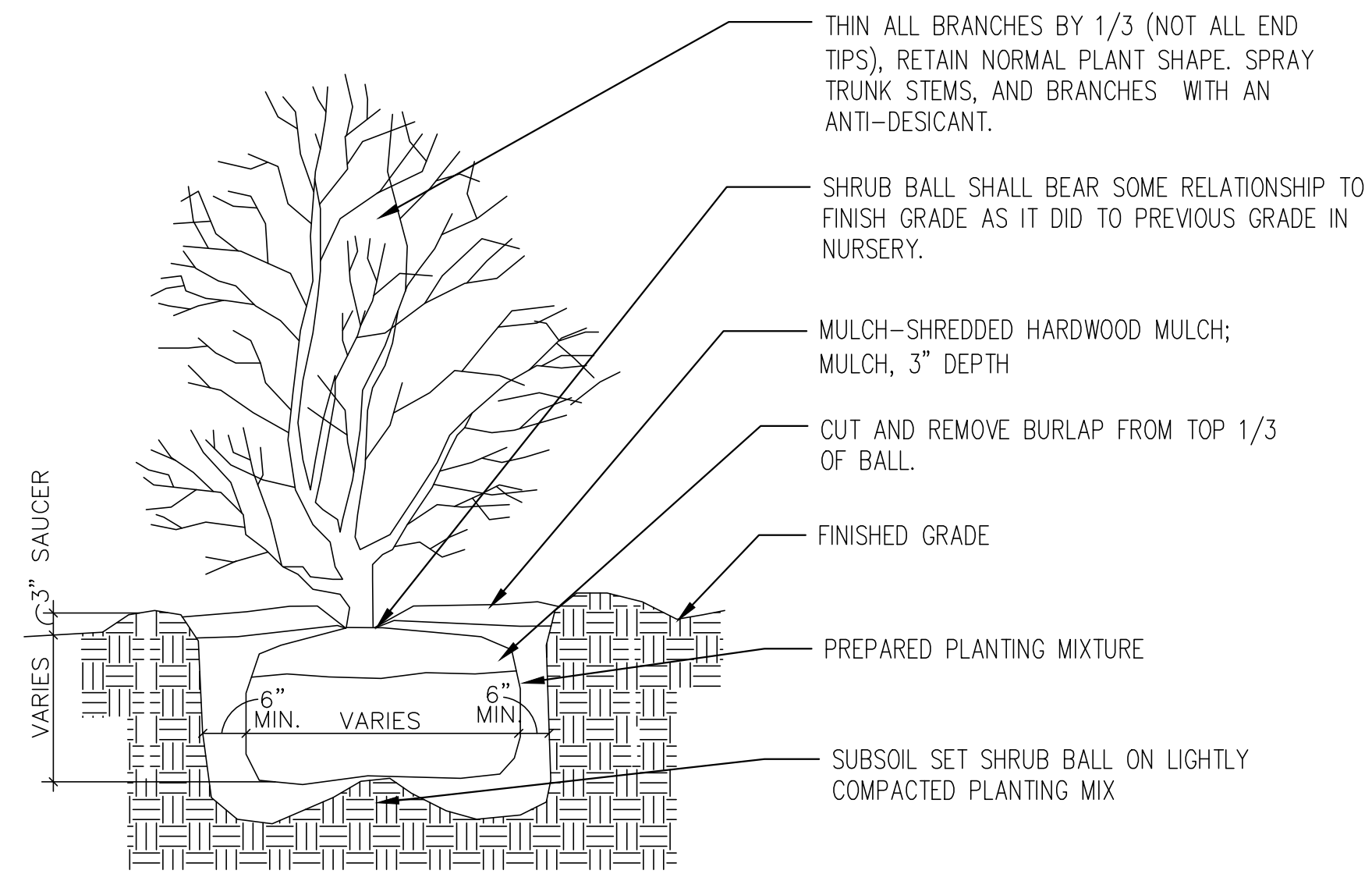
PERENNIAL & GROUND COVER
PLANTING DETAIL



MULCH BED EDGE DETAIL



TREE PLANTING DETAIL



SHRUB PLANTING DETAIL

A
L2.0

LANDSCAPE REQUIREMENT SUMMARY

B
L2.0

PLANTING DETAILS

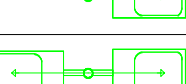
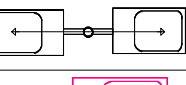
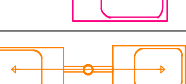
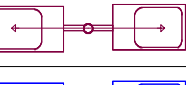
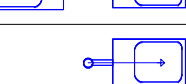
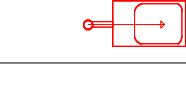
SCALE: NO SCALE

KROGER
STORE # 925-A
Drawn By: T. SCHLAG

Sheet L2
of

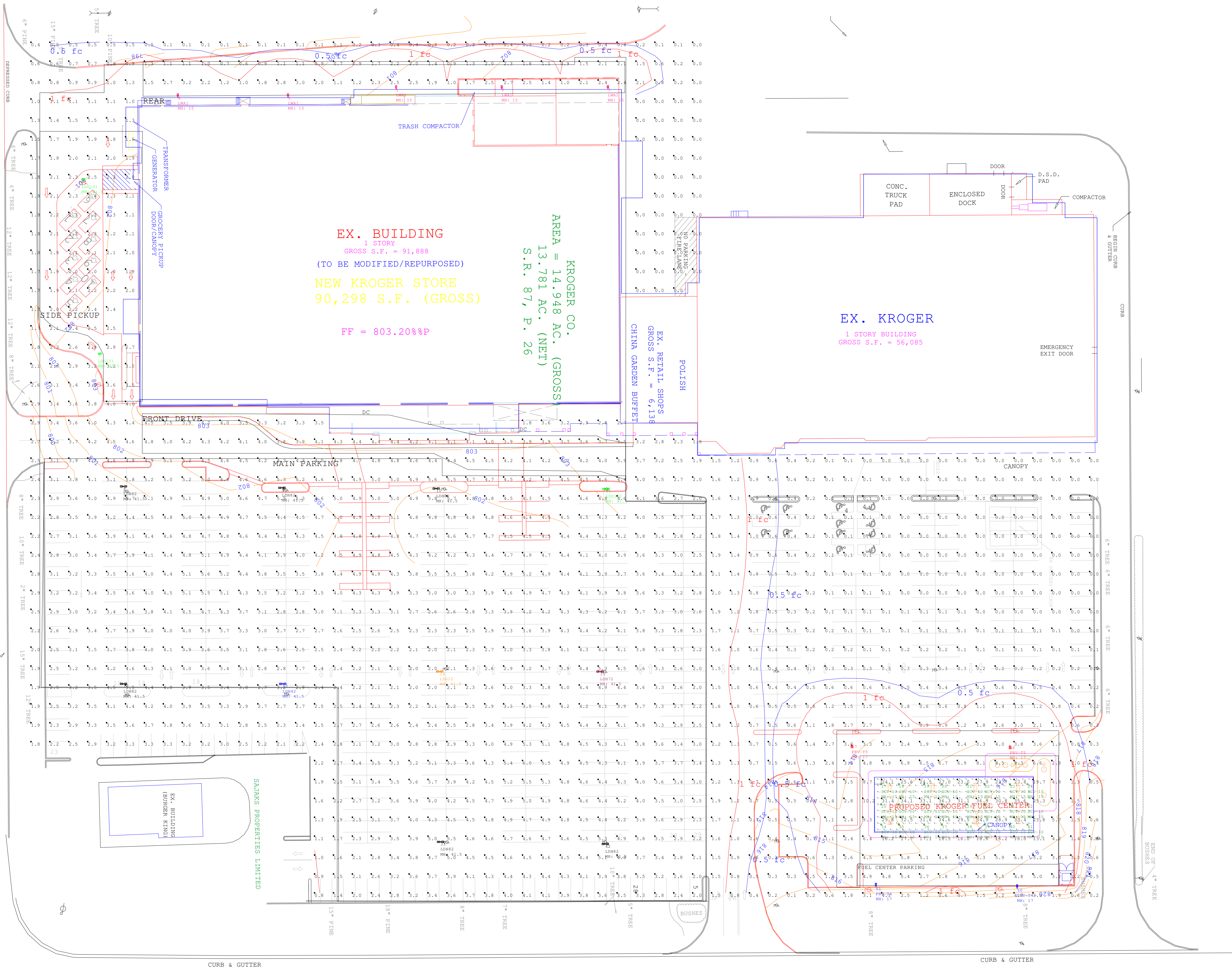
Job No: F7X99000-WBS 03DD

Luminaire Location Summary						
LumNo	Label	X	Y	Z	Orient	Tilt
1	LWA1	-177.922	266.2	15	90	0
2	LWA1	-94.1	266.281	15	90	0
3	LWA1	-9.906	266.281	15	90	0
4	LWA1	-351.081	259.704	15	90	0
5	LWA1	-263.703	259.704	15	90	0
6	LDG101	-427.36	193.43	41.5	0	0
7	LDG101	-414.431	55.084	41.5	0	0
8	LDH82	-394.205	-50.203	41.5	0	0
9	LDH82	-268.513	-51.311	41.5	0	0
10	LDH82	-146.144	-51.864	41.5	0	0
11	LDG102	-11.496	-52.197	41.5	0	0
12	LDH82	-394.231	-206.884	41.5	0	0
13	LDH42	-267.932	-206.884	41.5	0	0
14	LDG32	-143.262	-197.165	41.5	0	0
15	LDH72	-16.13	-197.165	41.5	0	0
17	SCV-10	207.008	-286.501	15	0	0
18	SCV-10	220.985	-286.501	15	0	0
19	SCV-10	241.041	-286.501	15	0	0
20	SCV-10	255.018	-286.501	15	0	0
21	SCV-10	275.003	-286.501	15	0	0
22	SCV-10	288.98	-286.501	15	0	0
23	SCV-10	309.059	-286.501	15	0	0
24	SCV-10	323.036	-286.501	15	0	0
25	SCV-10	207.008	-302.492	15	0	0
26	SCV-10	220.985	-302.492	15	0	0
27	SCV-10	241.041	-302.492	15	0	0
28	SCV-10	255.018	-302.492	15	0	0
29	SCV-10	275.003	-302.492	15	0	0
30	SCV-10	288.98	-302.492	15	0	0
31	SCV-10	309.059	-302.492	15	0	0
32	SCV-10	323.036	-302.492	15	0	0
33	LDH82	-142.75	-332.275	41.5	0	0
34	SCV-10	207.008	-318.542	15	0	0
35	SCV-10	220.985	-318.542	15	0	0
36	SCV-10	241.041	-318.542	15	0	0
37	SCV-10	255.018	-318.542	15	0	0
38	SCV-10	275.003	-318.542	15	0	0
39	SCV-10	288.98	-318.542	15	0	0
40	SCV-10	309.059	-318.542	15	0	0
41	SCV-10	323.036	-318.542	15	0	0
42	LDH82	-11.932	-333.976	41.5	0	0
46	PRV-T5	309.036	-255.762	17	270	0
47	PRV-T5	183.595	-255.003	17	270	0
50	PRV-T4	314.859	-368.928	17	90	0
51	PRV-T4	202.773	-367.728	17	90	0

Luminaire Schedule							
Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	Lum. Lumens	LLF
	24	SCV-10	SINGLE	66.1	1586.4	10306	1.000
	2	LDG101	SINGLE	558	1116	63482	0.912
	1	LDG102	BACK-BACK	558	1116	63482	0.912
	6	LDH82	BACK-BACK	445	5340	51264	0.912
	5	LWA1	SINGLE	59	295	6505	0.912
	1	LDG32	BACK-BACK	166	332	19580	0.912
	1	LDH72	BACK-BACK	391	782	45243	0.912
	1	LDH42	BACK-BACK	225	450	25803	0.912
	2	PRV-T4	SINGLE	131	262	17087	0.912
	2	PRV-T5	SINGLE	131	262	18284	0.912

Total Watts = 11541.39

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL POINTS	Illuminance	Fc	3.07	36.9	0.0	N.A.	N.A.
UNDER CANOPY	Illuminance	Fc	30.62	38.0	20.7	1.48	1.84
FRONT DRIVE	Illuminance	Fc	4.05	5.0	3.2	1.27	1.56
FUEL CENTER PARKING	Illuminance	Fc	3.28	5.5	1.8	1.82	3.06
KROGER RELEVANT AREA	Illuminance	Fc	3.61	6.0	1.0	3.61	6.00
MAIN PARKING	Illuminance	Fc	3.81	6.0	2.0	1.91	3.00
REAR	Illuminance	Fc	2.02	3.2	1.0	2.02	3.20
SIDE PICKUP	Illuminance	Fc	2.28	4.0	1.6	1.43	2.50



Project manager to specify
fixture voltage for each fixture type

COOPER
Lighting Solutions
Applications Engineering
1121 Highway 74 South
Peachtree City, GA 30269
Tel no: 770-486-3966
Fax no: 770-486-4599
e-mail: mkt-lightingapplications@cooperlighting.com

COOPER
Lighting Solutions

We make no representation as to its completeness, currency or accuracy because of reasons inherent to CAD and the additional digital data used to produce a lighting application. The user of this data takes full responsibility for the accuracy and completeness of all measurements, areas, volumes or other data derived from this, either manually or with the use of a computer. This light level analysis is an estimate only, and is based on estimated reflectance values for interior applications or estimated pole heights. Actual lighting conditions may vary from actual measurements in certain situations due to variances, such as but not limited to, lamp output, input voltage, ballast variances, manufacturing tolerances and application variances. The presence of objects or obstructions that decrease light levels and may cause some shadowing. Lighting application drawings are not to be used for legal purposes.

Project Name:
A925
SPRINGBORO, OH

Client:
WENDY NORMAN
COOPER LIGHTING

Drawn By:
JC
Date:
9/10/2020

Scale:
1" = 40'

Project No:
2001035R3.AGI

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

PRV / PRV-XL Prevail LED

Area / Site Luminaire

Typical Applications

Outdoor • Parking Lots • Walkways • Roadways • Building Areas

Interactive Menu

- Ordering Information [page 2](#)
- Mounting Details [page 3](#)
- Optical Configurations [page 3](#)
- Product Specifications [page 3](#)
- Energy and Performance Data [page 4](#)
- Control Options [page 5](#)

Product Certifications



Product Features

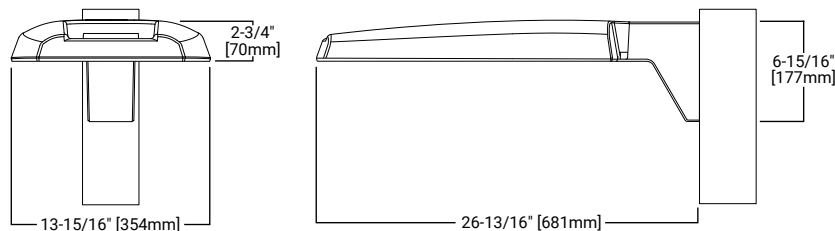


Quick Facts

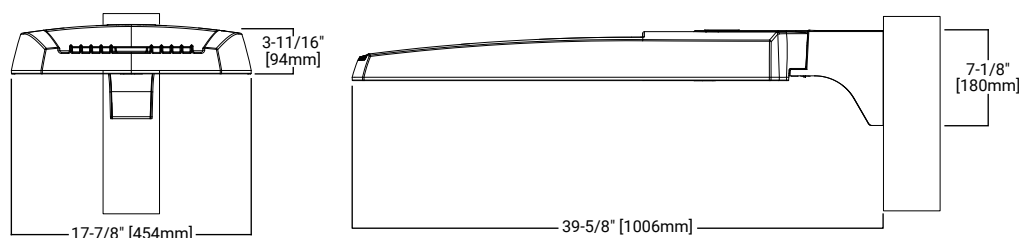
- Lumen packages range from 7,100 - 48,600 lumens (50W - 350W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 148 lumens per watt
- Energy and maintenance savings up to 85% versus HID solutions
- Standard universal quick mount arm with universal drill pattern

Dimensional Details

Prevail



Prevail XL



Ordering Information

SAMPLE NUMBER: **PRV-XL-C75-D-UNV-T4-SA-BZ**

Product Family ^{1,2}	Light Engine ³	Driver	Voltage	Distribution	Mounting (Included)	Color
PRV =Prevail	C15 =(1 LED) 7,100 Nominal Lumens C25 =(2 LEDs) 13,100 Nominal Lumens C40 =(2 LEDs) 17,100 Nominal Lumens C60 =(2 LEDs) 20,000 Nominal Lumens	D =Dimming (0-10V)	UNV =Universal (120-277V) 347 =347V 480 =480V ⁴	T2 =Type II T3 =Type III T4 =Type IV T5 =Type V	SA =Standard Versatile Arm MA =Mast Arm WM =Wall Mount Arm	AP =Grey BZ =Bronze BK =Black DP =Dark Platinum GM =Graphite Metallic WH =White
PRV-XL =Prevail XL	C75 =(4 LED) 26,100 Nominal Lumens C100 =(4 LED) 31,000 Nominal Lumens C125 =(4 LED) 36,000 Nominal Lumens C150 =(6 LED) 41,100 Nominal Lumens C175 =(6 LED) 48,600 Nominal Lumens					
Options (Add as Suffix)			Accessories (Order Separately) ¹⁷			
7030 =70 CRI / 3000K CCT ⁵ 7050 =70 CRI / 5000K CCT ⁵ HSS =House Side Shield ⁶ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right 10K =10kV/10kA UL 1449 Fused Surge Protective Device HA =50°C High Ambient Temperature ⁷ PER =NEMA 3-PIN Twistlock Photocontrol Receptacle PER7 =NEMA 7-PIN Twistlock Photocontrol Receptacle MSP/DIM-L12 =Integrated Sensor for Dimming Operation, 8' - 12' Mounting Height ^{8,9} MSP/DIM-L30 =Integrated Sensor for Dimming Operation, 12' - 30' Mounting Height ^{8,9} MSP-L12 =Integrated Sensor ON/OFF Operation, 8' - 12' Mounting Height ^{8,9} MSP-L30 =Integrated Sensor ON/OFF Dimming Operation, 12' - 30' Mounting Height ^{8,9} MS/DIM-L20 =Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ^{9,10} MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ^{9,10} MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ^{9,10} MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ^{9,10} ZW =Wavelinx-enabled 4-PIN Twistlock Receptacle ^{9,11,12} ZW-SWPD4XX =Wavelinx Wireless Sensor, 7' - 15' Mounting Height ^{9,11,12,13} ZW-SWPD5XX =Wavelinx Wireless Sensor, 15' - 40' Mounting Height ^{9,11,12,13} LWR-LW =LumaWatt Pro Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{9,14} LWR-LN =LumaWatt Pro Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{9,14} (See Table Below) =LumenSafe Integrated Network Security Camera ^{15,16}			PRVWM-XX =Wall Mount Kit ⁸ PRVMA-XX =Mast Arm Mounting Kit ⁸ PRVSA-XX =Standard Arm Mounting Kit ⁸ PRVXLSA-XX =Standard Arm Mounting Kit (for Prevail XL) ¹⁵ PRVXLWM-XX =Wall Mount Kit (for Prevail XL) ¹⁵ PRVXLMA-XL =Mast Arm Mounting Kit (for Prevail XL) ¹⁵ MA1010-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1011-XX =2@180° Tenon Adapter for 3-1/2" O.D. Tenon MA1017-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1018-XX =2@180° Tenon Adapter for 2-3/8" O.D. Tenon HS/VERD =House Side Shield ^{6,18} VGS-F/B =Vertical Glare Shield, Front/Back ¹⁸ VGS-SIDE =Vertical Glare Shield, Side ¹⁸ OA/RA1013 =Photocontrol Shorting Cap OA/RA1014 =NEMA Photocontrol - 120V OA/RA1016 =NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201 =NEMA Photocontrol - 347V OA/RA1027 =NEMA Photocontrol - 480V ISHH-01 =Integrated Sensor Programming Remote ¹⁹ FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁰ SWPD4-XX =WaveLinx Wireless Sensor, 7' - 15' Mounting Height ^{12,13,21} SWPD5-XX =WaveLinx Wireless Sensor, 15' - 40' Mounting Height ^{12,13,21} WOLC-7P-10A =WaveLinx Outdoor Control Module (7-PIN) ²²			
NOTES: 1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information. 3. Standard 4000K CCT and 70CRI. 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. Use dedicated IES files on product website for non-standard CCTs. 6. Option will come factory-installed. House Side Shield not suitable with T5 distribution or C60 lumen package. 7. Not available with C60 lumen package. 8. Only available in PRV configurations C15, C25, C40 or C60. 9. Controls system is not available with photocontrol receptacle (PER or PER7) or other controls systems (MS, MSP, ZW or LWR). 10. Utilizes the Wattstopper sensor FSP-211. 11. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F). 12. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information. 13. Replace XX with sensor color (WH, BZ, or BK). 14. LumaWatt Pro wireless sensors are factory installed and require network components LWP-EM-1, LWP-GW-1, and LWP-PoE8 in appropriate quantities. See website for LumaWatt Pro application information. 15. Only available in PRV-XL configurations C75, C100, C125, C150, or C175. 16. Not available with 347V, 480V, or HA options. Consult LumenSafe system product pages for additional details and compatibility information. 17. Replace XX with paint color. 18. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 4, or 6). 19. This tool enables adjustment to Integrated Sensor (MSP) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 20. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 21. Requires Wavelinx-enabled 4-PIN twistlock receptacle (ZW) option. 22. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS, MSP, ZW or LWR).						

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

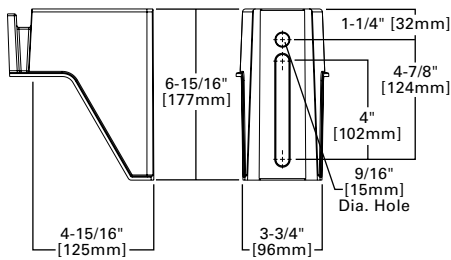
Product Family	Camera Type	Data Backhaul
L =LumenSafe Technology 	D =Dome Camera	C =Cellular, Customer Installed SIM Card A =Cellular, Factory Installed AT&T SIM Card V =Cellular, Factory Installed Verizon SIM Card S =Cellular, Factory Installed Sprint SIM Card E =Ethernet Networking

Stock Ordering Information

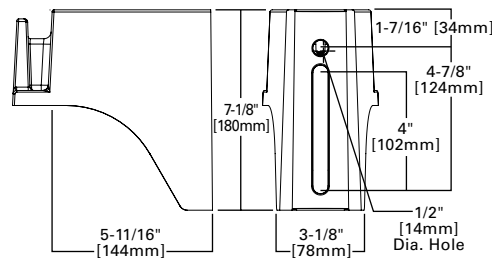
Product Family ¹	Light Engine	Voltage	Distribution	Options (Add as Suffix)
PRVS =Prevail	C15 =(1 LED) 7,100 Nominal Lumens C25 =(2 LEDs) 13,100 Nominal Lumens C40 =(2 LEDs) 17,100 Nominal Lumens C60 =(2 LEDs) 20,000 Nominal Lumens	UNV =Universal (120-277V) 347 =347V ²	T3 =Type III T4 =Type IV	MSP/DIM-L30 =Integrated Sensor for Dimming Operation, Maximum 30' Mounting Height ²
PRVS-XL =Prevail XL	C75 =(4 LED) 26,100 Nominal Lumens C100 =(4 LED) 31,000 Nominal Lumens C125 =(4 LED) 36,000 Nominal Lumens C150 =(6 LED) 41,100 Nominal Lumens C175 =(6 LED) 48,600 Nominal Lumens			
NOTES: 1. All stock configurations are standard 4000K/70CRI, bronze finish, and include the standard versatile mounting arm. 2. Only available in PRVS configurations C15, C25, C40 or C60.				

Mounting Details

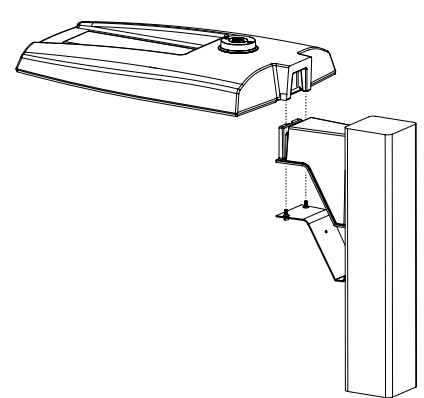
Pole Mount Arm (PRV)



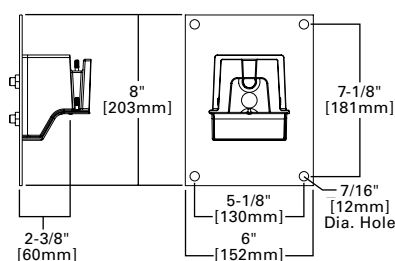
Pole Mount Arm (PRV-XL)



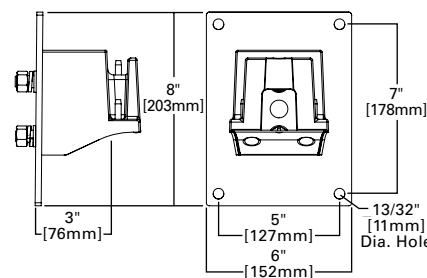
Versatile Mount System



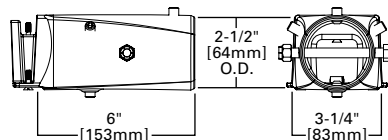
Wall Mount (PRV)



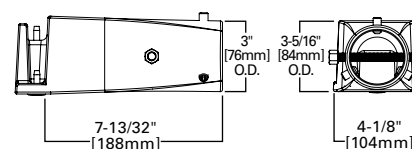
Wall Mount (PRV-XL)



Mast Arm Mount (PRV)



Mast Arm Mount (PRV-XL)



Mounting Configurations and EPAs

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications.

Wall Mount

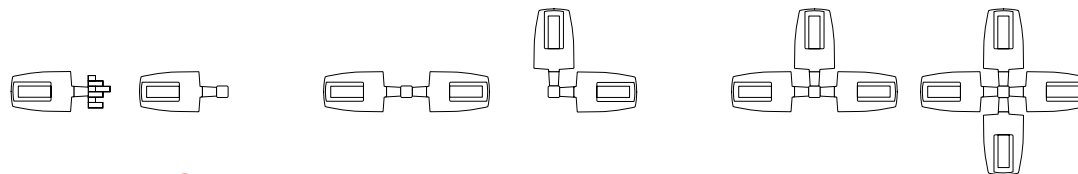
Arm Mount Single
EPA 0.92 (PRV)
EPA 1.12 (PRV-XL)

Arm Mount 2 @ 180°
EPA 1.35 (PRV)
EPA 2.25 (PRV-XL)

Arm Mount 2 @ 90°
EPA 1.42 (PRV)
EPA 2.13 (PRV-XL)

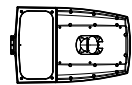
Arm Mount 3 @ 90°
EPA 1.63 (PRV)
EPA 2.52 (PRV-XL)

Arm Mount 4 @ 90°
EPA 1.63 (PRV)
EPA 2.52 (PRV-XL)

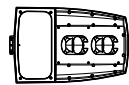


Optical Configurations

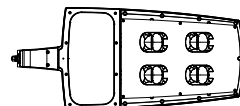
PRV-C15
(7,100 Nominal Lumens)



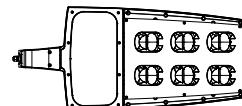
PRV-C25/C40/C60
(13,100/17,100/20,000
Nominal Lumens)



PRV-XL-C75/C100/C125
(26,100/31,000/36,300 Nominal Lumens)



PRV-XL-C150/C175
(41,100/48,600 Nominal Lumens)



Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- 40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion

- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture

Mounting

- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8"
- A knock-out on the standard mounting arm enables round pole mounting
- Prevail: 3G vibration rated
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated

Finish

- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)

Energy and Performance Data

Power and Lumens (PRV)

[View PRV IES files](#)

Light Engine		C15	C25	C40	C60
Power (Watts)		52	96	131	153
Input Current @ 120V (A)		0.43	0.80	1.09	1.32
Input Current @ 277V (A)		0.19	0.35	0.48	0.57
Input Current @ 347V (A)		0.17	0.30	0.41	0.48
Input Current @ 480V (A)		0.12	0.22	0.30	0.35
Distribution					
Type II	4000K Lumens	7,123	13,205	17,172	20,083
	BUG Rating	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3
	3000K Lumens	6,994	12,965	16,860	19,718
Type III	4000K Lumens	7,111	13,183	17,144	20,050
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4
	3000K Lumens	6,982	12,944	16,832	19,686
Type IV	4000K Lumens	7,088	13,140	17,087	19,984
	BUG Rating	B1-U0-G3	B2-U0-G4	B2-U0-G4	B3-U0-G5
	3000K Lumens	6,959	12,901	16,777	19,621
Type V	4000K Lumens	7,576	14,045	18,264	21,360
	BUG Rating	B3-U0-G3	B4-U0-G3	B4-U0-G4	B5-U0-G4
	3000K Lumens	7,438	13,790	17,932	20,972

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Up to PRV-C60 at 25°C	91.30%	194,000
Up to PRV-C60 at 40°C	87.59%	134,000
Up to PRV-XL-C175 at 25°C	91.40%	204,000
Up to PRV-XL-C175 at 40°C	89.41%	158,000

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
10°C	1.02
15°C	1.01
25°C	1.00
40°C	0.99

Power and Lumens (PRV-XL)

[View PRV-XL IES files](#)

Light Engine		C75	C100	C125	C150	C175
Power (Watts)		176	217	264	285	346
Input Current @ 120V (A)		1.50	1.84	2.21	2.38	2.92
Input Current @ 277V (A)		0.66	0.82	0.97	1.04	1.25
Input Current @ 347V (A)		0.54	0.66	0.79	0.84	1.02
Input Current @ 480V (A)		0.40	0.48	0.57	0.62	0.74
Distribution						
Type II	4000K Lumens	26,263	31,231	36,503	41,349	48,876
	BUG Rating	B3-U0-G3	B3-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G5
	3000K Lumens	25,786	30,664	35,840	40,598	47,989
Type III	4000K Lumens	26,120	31,061	36,304	41,124	48,610
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
	3000K Lumens	25,646	30,497	35,645	40,377	47,727
Type IV	4000K Lumens	26,098	31,035	36,274	41,089	48,569
	BUG Rating	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5
	3000K Lumens	25,624	30,471	35,615	40,343	47,687
Type V	4000K Lumens	28,129	33,450	39,097	44,287	52,349
	BUG Rating	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	3000K Lumens	27,618	32,843	38,387	43,483	51,398

Control Options

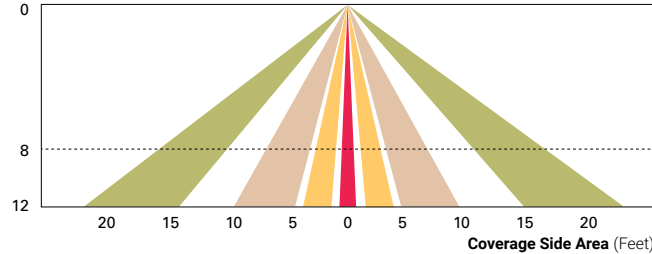
0-10V (D) The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (PER and PER7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

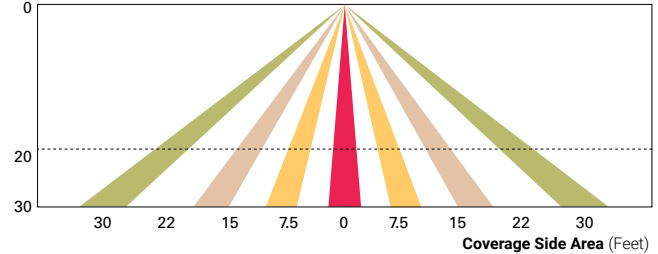
Dimming Occupancy Sensor (MSP and MS) These sensors are factory installed in the luminaire housing. When a sensor for dimming operation (/DIM) option is selected, the luminaire will dim down to approximately 50 percent power after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation is selected, the luminaire will turn off after five minutes of no activity.

These occupancy sensors include an integral photocell that can be activated or inactivated with the programming remote / configuration tool for "dusk-to-dawn" control or "daylight harvesting". **Note:** For MSP sensors, the factory preset is ON (Enabled), and for MS sensors, the factory preset is OFF (Disabled). The programming remote / tool is a wireless tool that can be utilized to change the dimming level, time delay, sensitivity and other parameters. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 8'-40'.

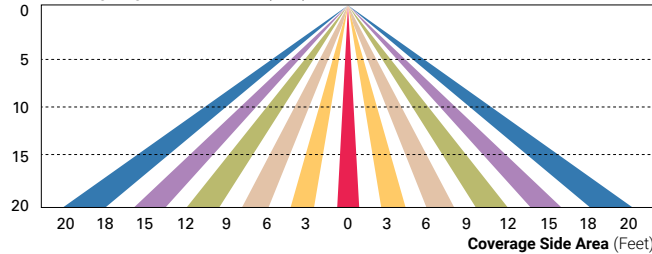
For mounting heights from 8' to 12' (-L12)



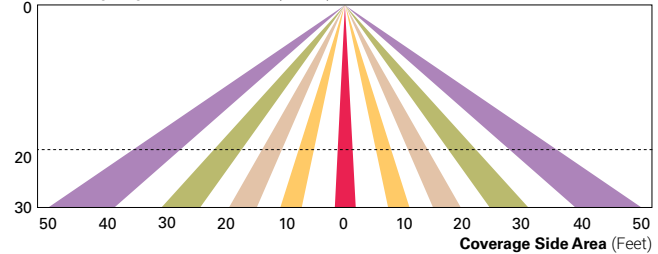
For mounting heights from 12' to 30' (-L30)



For mounting heights from 9' to 20' (-L20)



For mounting heights from 21' to 40' (-L40W)

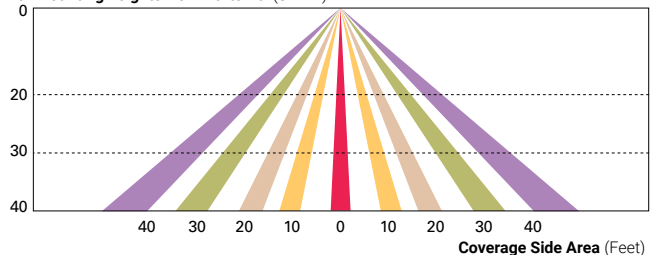


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

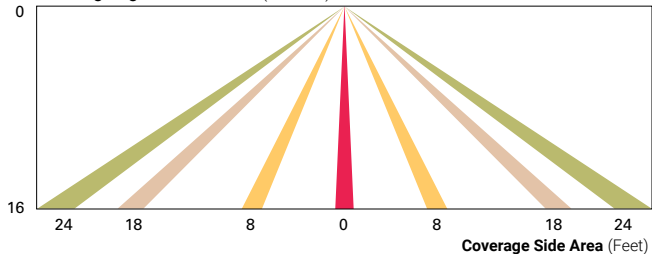
WaveLinx Wireless Sensor (SWPD4 and SWPD5) These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors can be factory installed or field-installed via simple, tool-less integration into luminaires equipped with the Zhaga Book 18 compliant 4-PIN receptacle (ZW). These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (SWPD)

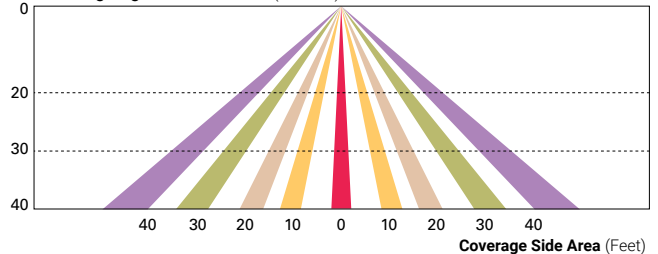


LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN) The Cooper Lighting Solutions's LumaWatt Pro powered by Enlighted is a connected lighting solution that combines LED luminaires with an integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of other resources beyond lighting.

For mounting heights from 8' to 16' (LWR-LW)



For mounting heights from 16' to 40' (LWR-LN)



LumenSafe (LD) The LumenSafe integrated network camera is a streamlined, outdoor-ready camera that provides high definition video surveillance. This IP camera solution is optimally designed to integrate into virtually any video management system or security software platform of choice. No additional wiring is needed beyond providing line power to the luminaire. LumenSafe features factory-installed power and networking gear in a variety of networking options allowing security integrators to design the optimal solution for active surveillance.

DESCRIPTION

The Galleon™ LED Flood luminaire combines the low-profile design of the Galleon with the mounting angle flexibility of a pole or wall-mounted floodlight. With a maximum tilt angle of 60° from horizontal, and patented, high-efficiency AccuLED Optics™ technology, it provides uniform and energy conscious illumination for parking lots, container / rail yards and highway projects. Mounts direct to pole or to a, bullhorn or pole-top tenon. IP66 rated and UL/cUL Listed for wet locations.

Catalog #		Type
Project		
Comments		Date
Prepared by		

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 and IP66 rated up to 60° from horizontal. Optional tool-less hardware available for ease of entry into electrical chamber.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. 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, 5000K CCT and 3000K CCT.

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 our proprietary circuit module designed to withstand 10kV of transient line surge. The Galleon LED Flood 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. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

Cast aluminum knuckle arm mounts directly to fixture housing, and is available with either commercial pole mount or slipfitter for bullhorn, pipe or tenon mount. Can be tilted up to 60° from horizontal without compromising vibration or IP rating. Slipfitter compatible with 2-3/8" – 3" pipe or tenon mounting.

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 housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



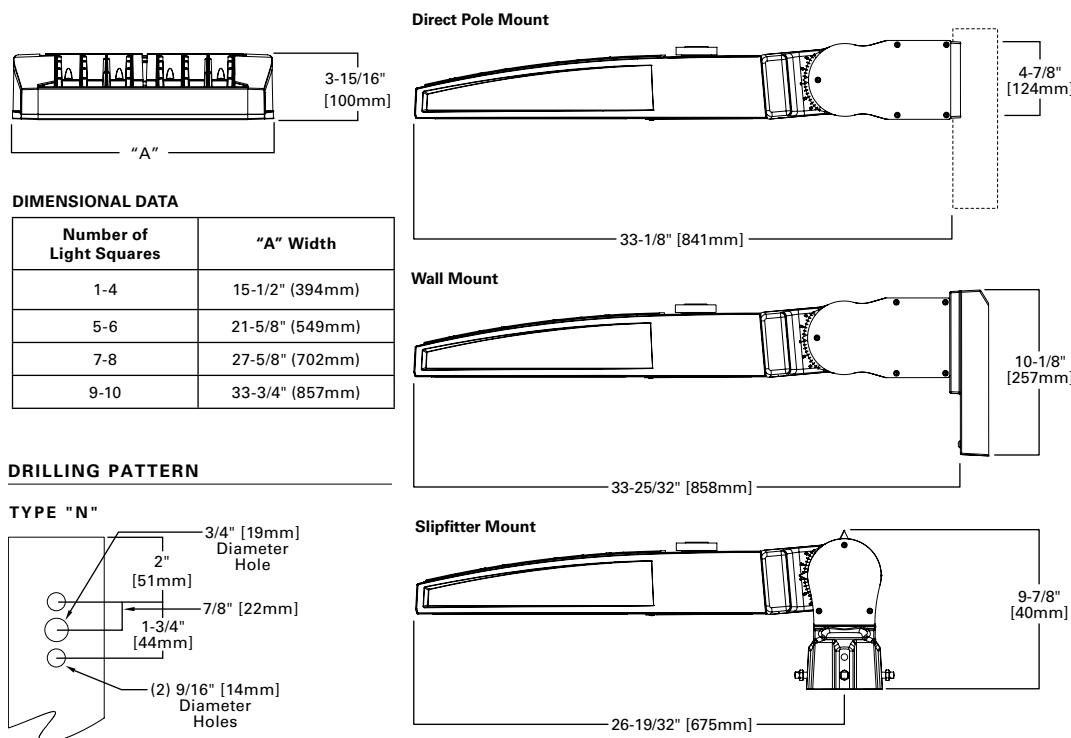
GLEON GALLEON LED FLOOD

1-10 Light Squares
Solid State LED

FLOODLIGHT LUMINAIRE

WaveLinx

DIMENSIONS

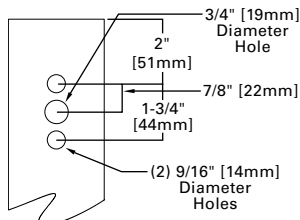


DIMENSIONAL DATA

Number of Light Squares	"A" Width
1-4	15-1/2" (394mm)
5-6	21-5/8" (549mm)
7-8	27-5/8" (702mm)
9-10	33-3/4" (857mm)

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

UL/cUL Wet Location Listed
 ISO 9001
 LM79 / LM80 Compliant
 3G Vibration Rated up to 60° from Horizontal
 IP66 Rated up to 60° from Horizontal
 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)

EPA CHART

Tilt Angle (Degrees)	Number of Light Squares	Weight	1 @ 90°	2 @ 180°	2 @ 90°	2 @ 120°	3 @ 90°	3 @ 120°	4 @ 90°
0°	1-4	34 lbs. (15.45 kgs.)	1.21	2.42	1.94	2.19	2.92	2.83	3.87
	5-6	45 lbs. (20.45 kgs.)	1.21	2.42	2.12	2.28	3.12	3.12	4.23
	7-8	55 lbs. (25.00 kgs.)	1.21	2.42	--	2.39	--	3.42	--
	9-10	63 lbs. (28.63 kgs.)	1.21	2.42	--	2.51	--	3.73	--
15°	1-4	34 lbs. (15.45 kgs.)	1.21	2.42	2.14	2.39	3.14	3.16	4.23
	5-6	45 lbs. (20.45 kgs.)	1.21	2.42	2.46	2.46	3.43	3.60	4.91
	7-8	55 lbs. (25.00 kgs.)	1.30	2.59	--	2.65	--	4.06	--
	9-10	63 lbs. (28.63 kgs.)	1.58	3.17	--	3.02	--	4.54	--
30°	1-4	34 lbs. (15.45 kgs.)	1.41	2.82	2.94	2.78	4.05	4.25	5.88
	5-6	45 lbs. (20.45 kgs.)	1.96	3.92	3.66	3.55	5.13	5.18	7.31
	7-8	55 lbs. (25.00 kgs.)	2.51	5.01	--	4.33	--	6.16	--
	9-10	63 lbs. (28.63 kgs.)	3.06	6.12	--	5.14	--	7.23	--
45°	1-4	34 lbs. (15.45 kgs.)	1.99	2.99	3.70	3.60	5.19	5.23	7.40
	5-6	45 lbs. (20.45 kgs.)	2.77	5.55	4.76	4.72	6.76	6.67	9.81
	7-8	55 lbs. (25.00 kgs.)	3.54	7.09	--	5.85	--	8.16	--
	9-10	63 lbs. (28.63 kgs.)	4.33	8.66	--	7.01	--	9.70	--
60°	1-4	34 lbs. (15.45 kgs.)	2.44	4.88	4.30	4.24	6.09	6.04	8.60
	5-6	45 lbs. (20.45 kgs.)	3.40	6.79	--	5.64	--	7.88	--
	7-8	55 lbs. (25.00 kgs.)	4.34	8.68	--	7.03	--	9.72	--
	9-10	63 lbs. (28.63 kgs.)	5.30	10.60	--	--	--	--	--

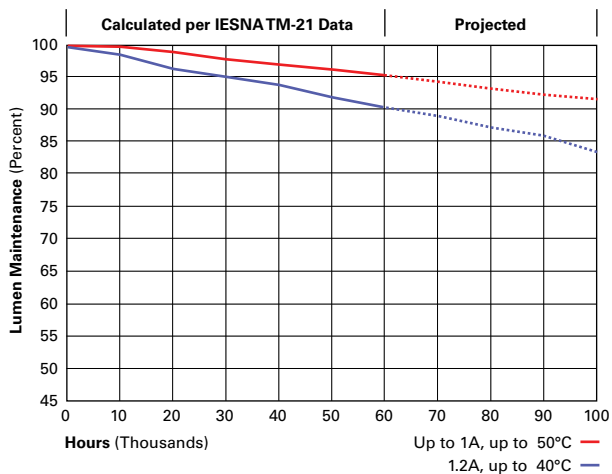
Note: Mounting not valid where left blank due to clearance.

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

LUMEN MULTIPLIER

Ambient Temperature	Ambient Temperature
0°	1.02
10°	1.01
25°	1.00
40°	0.99
50°	0.97



NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.80	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,863	13,412	20,011	26,441	32,761	39,205	46,364	52,534	58,601	64,880
	3000K Lumens	6,489	12,681	18,919	25,000	30,974	37,066	43,836	49,668	55,405	61,341
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	7,285	14,238	21,246	28,072	34,780	41,621	49,221	55,770	62,212	68,878
	3000K Lumens	6,888	13,462	20,087	26,541	32,884	39,351	46,537	52,729	58,819	65,122
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,995	13,670	20,397	26,951	33,391	39,959	47,256	53,544	59,728	66,130
	3000K Lumens	6,613	12,924	19,284	25,480	31,570	37,780	44,679	50,624	56,471	62,524
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	7,150	13,973	20,850	27,549	34,134	40,846	48,307	54,734	61,056	67,598
	3000K Lumens	6,761	13,212	19,713	26,046	32,272	38,619	45,673	51,750	57,726	63,911
	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	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	7,036	13,748	20,515	27,107	33,586	40,191	47,530	53,854	60,074	66,512
	3000K Lumens	6,652	12,999	19,397	25,629	31,754	37,999	44,938	50,917	56,797	62,885
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,945	13,571	20,249	26,756	33,152	39,671	46,917	53,160	59,298	65,653
	3000K Lumens	6,566	12,831	19,146	25,297	31,344	37,508	44,358	50,260	56,064	62,072
	BUG Rating	B1-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	B4-U0-G5
SL2	4000K/5000K Lumens	6,851	13,388	19,977	26,396	32,704	39,137	46,283	52,444	58,498	64,768
	3000K Lumens	6,477	12,658	18,888	24,957	30,920	37,003	43,759	49,584	55,308	61,235
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,994	13,668	20,394	26,947	33,388	39,953	47,249	53,537	59,720	66,119
	3000K Lumens	6,612	12,922	19,281	25,477	31,567	37,774	44,673	50,618	56,463	62,514
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,645	12,986	19,378	25,603	31,723	37,962	44,893	50,868	56,743	62,824
	3000K Lumens	6,282	12,279	18,321	24,207	29,993	35,892	42,445	48,094	53,648	59,398
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,214	14,097	21,036	27,795	34,437	41,210	48,734	55,220	61,597	68,199
	3000K Lumens	6,820	13,329	19,888	26,279	32,558	38,962	46,077	52,208	58,237	64,479
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	7,347	14,356	21,423	28,306	35,071	41,969	49,632	56,237	62,730	69,454
	3000K Lumens	6,947	13,573	20,254	26,762	33,158	39,680	46,925	53,170	59,309	65,667
	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
5WQ	4000K/5000K Lumens	7,366	14,396	21,480	28,381	35,164	42,080	49,765	56,386	62,898	69,639
	3000K Lumens	6,964	13,610	20,308	26,833	33,247	39,786	47,050	53,311	59,468	65,842
	BUG Rating	B3-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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,147	12,010	17,921	23,679	29,339	35,109	41,521	47,046	52,478	58,102
	3000K Lumens	5,811	11,355	16,944	22,388	27,739	33,194	39,256	44,479	49,617	54,933
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	7,149	13,970	20,846	27,543	34,126	40,837	48,295	54,722	61,042	67,582
	3000K Lumens	6,760	13,208	19,709	26,041	32,264	38,610	45,661	51,738	57,713	63,897
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	7,175	14,021	20,921	27,643	34,249	40,986	48,470	54,920	61,262	67,828
	3000K Lumens	6,784	13,256	19,780	26,136	32,381	38,750	45,827	51,925	57,922	64,129
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	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
T3	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	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	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-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	B4-U0-G5
SL2	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-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	B5-U0-G4
5MQ	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	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
5WQ	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	5,054	9,878	14,739	19,475	24,129	28,875	34,148	38,691	43,159	47,785
	3000K Lumens	4,779	9,338	13,935	18,412	22,813	27,301	32,286	36,581	40,805	45,179
	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-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25,616	30,654	36,252	41,076	45,819	50,730
	3000K Lumens	5,074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47,964
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,153	10,068	15,022	19,849	24,593	29,430	34,805	39,436	43,990	48,705
	3000K Lumens	4,872	9,519	14,203	18,766	23,251	27,825	32,907	37,285	41,591	46,048
	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
T3R	4000K/5000K Lumens	5,266	10,292	15,356	20,290	25,140	30,084	35,578	40,312	44,968	49,786
	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
	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
T4W	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
	3000K Lumens	4,771	9,322	13,911	18,381	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,313	10,383	15,493	20,470	25,363	30,351	35,893	40,669	45,367	50,229
	3000K Lumens	5,024	9,817	14,647	19,354	23,980	28,696	33,936	38,452	42,893	47,490
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,411	10,574	15,778	20,848	25,830	30,911	36,554	41,418	46,202	51,154
	3000K Lumens	5,117	9,997	14,917	19,710	24,421	29,225	34,561	39,160	43,682	48,364
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,426	10,603	15,820	20,903	25,899	30,992	36,652	41,529	46,325	51,290
	3000K Lumens	5,130	10,025	14,958	19,763	24,486	29,302	34,654	39,263	43,799	48,493
	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-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,528	8,846	13,199	17,440	21,609	25,858	30,580	34,649	38,651	42,792
	3000K Lumens	4,281	8,364	12,480	16,489	20,430	24,448	28,912	32,759	36,543	40,459
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,265	10,289	15,353	20,285	25,134	30,077	35,569	40,303	44,958	49,775
	3000K Lumens	4,978	9,727	14,516	19,179	23,763	28,437	33,629	38,105	42,506	47,060
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,285	10,327	15,409	20,360	25,225	30,186	35,699	40,450	45,120	49,956
	3000K Lumens	4,996	9,763	14,569	19,249	23,849	28,540	33,752	38,244	42,659	47,232
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K/5000K Lumens	4,121	8,055	12,019	15,881	19,676	23,547	27,847	31,552	35,196	38,967
	3000K Lumens	3,896	7,615	11,363	15,015	18,604	22,263	26,328	29,831	33,276	36,842
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	4000K/5000K Lumens	4,376	8,552	12,760	16,860	20,890	24,998	29,563	33,497	37,365	41,369
	3000K Lumens	4,138	8,085	12,064	15,941	19,751	23,635	27,951	31,670	35,328	39,113
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,201	8,210	12,251	16,187	20,055	23,999	28,383	32,159	35,873	39,718
	3000K Lumens	3,973	7,763	11,583	15,304	18,961	22,691	26,835	30,406	33,916	37,552
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	4000K/5000K Lumens	4,294	8,393	12,523	16,546	20,501	24,532	29,014	32,875	36,671	40,600
	3000K Lumens	4,060	7,936	11,840	15,644	19,383	23,195	27,432	31,082	34,671	38,386
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,226	8,257	12,321	16,280	20,172	24,139	28,547	32,346	36,082	39,948
	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,171	8,151	12,162	16,071	19,912	23,827	28,178	31,928	35,615	39,432
	3000K Lumens	3,943	7,706	11,498	15,194	18,825	22,527	26,642	30,187	33,673	37,281
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	4000K/5000K Lumens	4,114	8,041	11,998	15,854	19,643	23,506	27,799	31,498	35,135	38,901
	3000K Lumens	3,890	7,603	11,344	14,989	18,572	22,224	26,282	29,780	33,219	36,779
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	4000K/5000K Lumens	4,200	8,209	12,249	16,184	20,053	23,996	28,379	32,154	35,869	39,712
	3000K Lumens	3,972	7,762	11,580	15,302	18,960	22,688	26,831	30,400	33,913	37,546
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,992	7,799	11,638	15,378	19,053	22,801	26,964	30,552	34,081	37,733
	3000K Lumens	3,774	7,374	11,003	14,539	18,015	21,557	25,493	28,886	32,222	35,674
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,333	8,467	12,634	16,694	20,683	24,751	29,271	33,166	36,996	40,961
	3000K Lumens	4,097	8,005	11,945	15,784	19,555	23,401	27,674	31,357	34,978	38,727
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,413	8,622	12,867	17,000	21,064	25,207	29,810	33,777	37,677	41,715
	3000K Lumens	4,173	8,152	12,165	16,073	19,915	23,832	28,185	31,934	35,623	39,440
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	4,424	8,646	12,900	17,046	21,120	25,274	29,890	33,866	37,778	41,826
	3000K Lumens	4,182	8,175	12,197	16,117	19,968	23,896	28,260	32,018	35,717	39,545
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,692	7,214	10,763	14,222	17,621	21,086	24,937	28,256	31,519	34,897
	3000K Lumens	3,491	6,820	10,176	13,447	16,660	19,937	23,577	26,715	29,800	32,994
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,293	8,390	12,520	16,542	20,496	24,527	29,007	32,866	36,662	40,591
	3000K Lumens	4,059	7,932	11,837	15,640	19,378	23,189	27,425	31,074	34,662	38,377
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,310	8,421	12,566	16,602	20,571	24,616	29,112	32,986	36,795	40,738
	3000K Lumens	4,074	7,962	11,881	15,697	19,448	23,273	27,525	31,187	34,788	38,516
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

CONTROL OPTIONS**0-10V (DIM)**

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

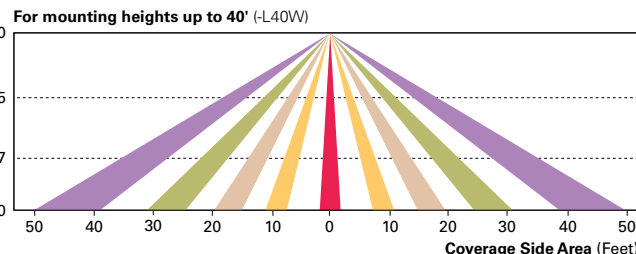
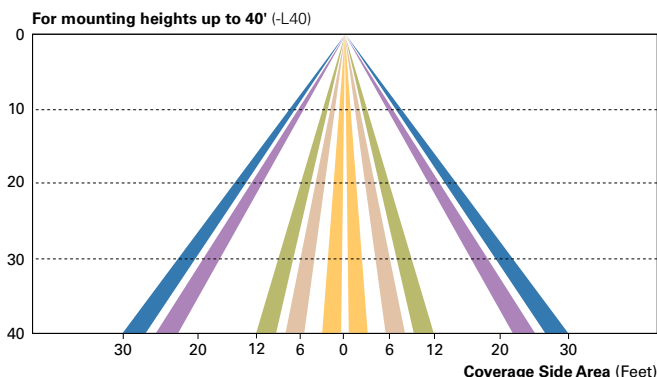
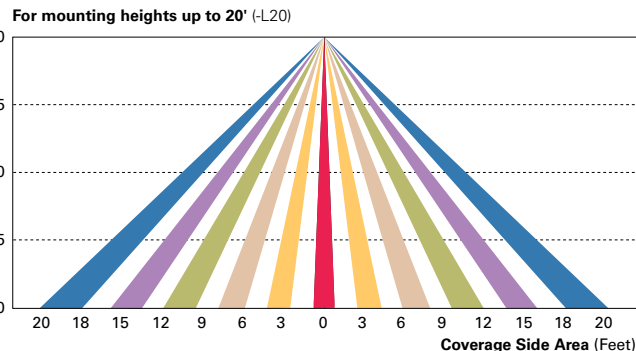
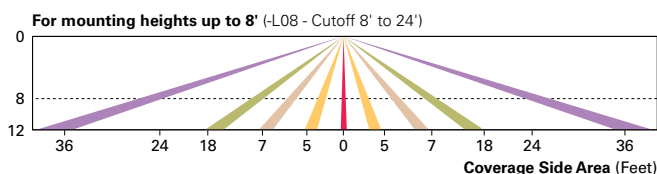
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

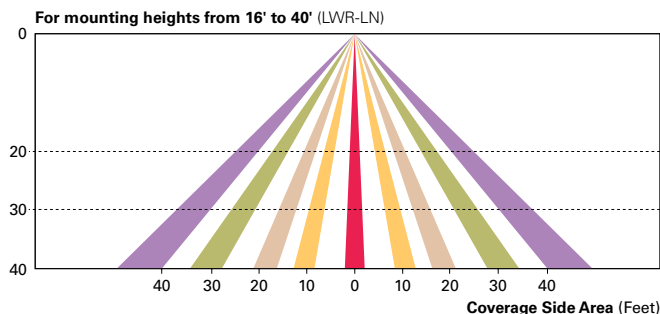
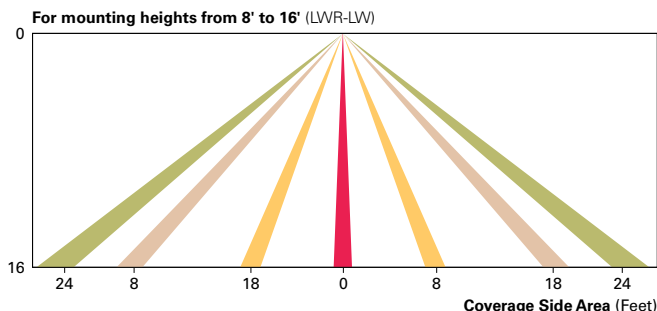
Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.

**LumaWatt Pro Wireless Control and Monitoring System (LWR-LW and LWR-LN)**

The Cooper Lighting Solutions' LumaWatt Pro powered by Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.

**WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)**

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T4FT-GM-ADJS-800

Product Family ^{1,2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 06=6 07=7 08=8 09=9 10=10	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁴ 480=480V ^{4,5}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	ADJA=Adjustable Arm - Direct Pole Mount ⁶ ADJS=Adjustable Arm - Slipfitter ⁶ ADJA-WM=Adjustable Arm - Wall Mount ⁶
Options (Add as Suffix)					Accessories (Order Separately)		
7027=70 CRI 2700K⁷ 7030=70 CRI 3000K⁷ 8030=80 CRI 3000K⁸ 7050=70 CRI 5000K⁷ 7060=70 CRI 6000K⁷ 600=Drive Current Factory Set to Nominal 600mA⁹ 800=Drive Current Factory Set to Nominal 800mA⁹ 1200=Drive Current Factory Set to Nominal 1200mA¹⁰ F=Single Fuse (120, 277 or 347V. Must Specify Voltage) FF=Double Fuse (208, 240 or 480V. Must Specify Voltage) 2L=Two Circuits^{11,12} DIM=External 0-10V Dimming Leads P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle R=NEMA Twistlock Photocontrol Receptacle AHD145=After Hours Dim, 5 Hours¹³ AHD245=After Hours Dim, 6 Hours¹³ AHD255=After Hours Dim, 7 Hours¹³ AHD355=After Hours Dim, 8 Hours¹³ HA=50°C High Ambient¹⁴ MS/DIM-L08=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height^{15,16} MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height^{15,17} MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height^{15,18} MS/DIM-L40W=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height (Wide Range)^{15,19} MS/X-L08=Bi-Level Motion Sensor, Maximum 8' Mounting Height^{15,16,20} MS/X-L20=Bi-Level Motion Sensor, 9' - 20' Mounting Height^{15,17,20} MS/X-L40=Bi-Level Motion Sensor, 21' - 40' Mounting Height^{15,18,20} MS/X-L40W=Bi-Level Motion Sensor, 21' - 40' Mounting Height (Wide Range)^{15,19,20} MS-L08=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height^{15,16} MS-L20=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height^{15,17} MS-L40=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height^{15,18} MS-L40W=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height (Wide Range)^{15,19} LWR-LW=LumaWatt Wireless Sensor, Wide Lens for 8' - 16' Mounting Height²¹ LWR-LN=LumaWatt Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height²¹ 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 Housing²² HSS=Factory Installed House Side Shield²³ ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle^{25,26} ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White^{25,26} ZW-SWPD4BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze^{25,26} ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White^{25,26} ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze^{25,26}					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 MA1252=10kV Surge Module Replacement MA1036-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX=2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX=3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX=4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX=2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX=3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX=2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX=2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX=3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX=4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX=2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX=3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100=Wireless Configuration Tool for Occupancy Sensor¹⁵ GLEON-MT1=Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2=Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3=Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4=Field Installed Mesh Top for 9-10 Light Squares LS/HSS=Field Installed House Side Shield^{23,24} WOLC-7P-10A=Wavelinx Outdoor Control Module (7-pin)^{25,28} SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White^{25,26,27} SWPD4-BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze^{25,26,27} SWPD5-WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White^{25,26,27} SWPD5-BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze^{25,26,27}		

NOTES:

- DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information.
- Standard 4000K CCT and minimum 70 CRI.
- Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A.
- 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).
- Vibration and IP ratings maintained up to 60° from horizontal.
- Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon LED Flood product page on the website.
- Extended lead times apply. Use dedicated IES files for 3000K, 5000K and 6000K when performing layouts. These files are published on the Galleon LED Flood product page on the website.
- 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. These files are published on the Galleon LED Flood product page on the website.
- Not available with HA option.
- 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table.
- Not available with LumaWatt wireless sensors.
- Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Approximately 22' detection diameter at 8' mounting height.
- Approximately 40' detection diameter at 20' mounting height.
- Approximately 60' detection diameter at 40' mounting height.
- Approximately 100' detection diameter at 40' mounting height.
- Replace X with number of Light Squares operating in low output mode.
- 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.cooperlighting.com for LumaWatt application information.
- Not available with house side shield (HSS).
- Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected.
- One required for each Light Square.
- Cannot be used in conjunction with photocontrol or other controls systems (P, R, MS, LWR).
- WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
- Requires ZW.
- Requires PER7.

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.

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 and rated. Optional tool-less hardware available for ease of entry into electrical chamber. Housing is IP66 rated.

Optics

Patented, high-efficiency injection-molded AccuLED Optics technology. 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 3000K, 5000K and 6000K CCT.

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 Cooper Lighting Solutions 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 HA (High Ambient) option. Light Squares are IP66 rated. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 600mA, 800mA and 1200mA drive currents (nominal).

Mounting

STANDARD ARM MOUNT: Extruded aluminum arm includes internal bolt guides allowing for easy positioning of fixture during 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. Round pole adapter included. For wall mounting, specify wall mount bracket option. **QUICK MOUNT ARM:** Adapter is bolted directly to the pole. Quick mount arm slide into place on the adapter and is secured via two screws, facilitating quick and easy installation. The versatile, patent pending, quick mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8". Removal of the door on the quick mount arm enables wiring of the fixture without having to access the driver compartment. A knock-out enables round pole mounting.

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 housing colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available.

Warranty

Five-year warranty.



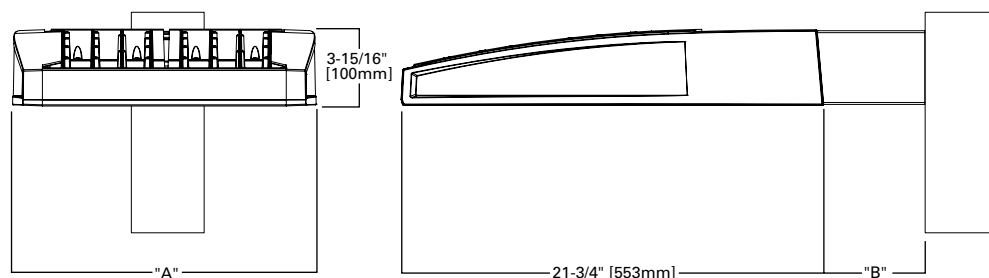
GLEON GALLEON LED

1-10 Light Squares

Solid State LED

AREA/SITE LUMINAIRE

DIMENSIONS



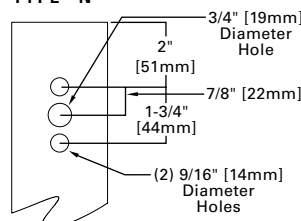
DIMENSION DATA

Number of Light Squares	"A" Width	"B" Standard Arm Length	"B" Optional Arm Length ¹	Weight with Arm (lbs.)	EPA with Arm ² (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)	13" (330mm)	54 (24.5 kgs.)	1.07
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 fixtures at 90° on a single pole. 2. EPA calculated with optional arm length.

DRILLING PATTERN

TYPE "N"



CERTIFICATION DATA

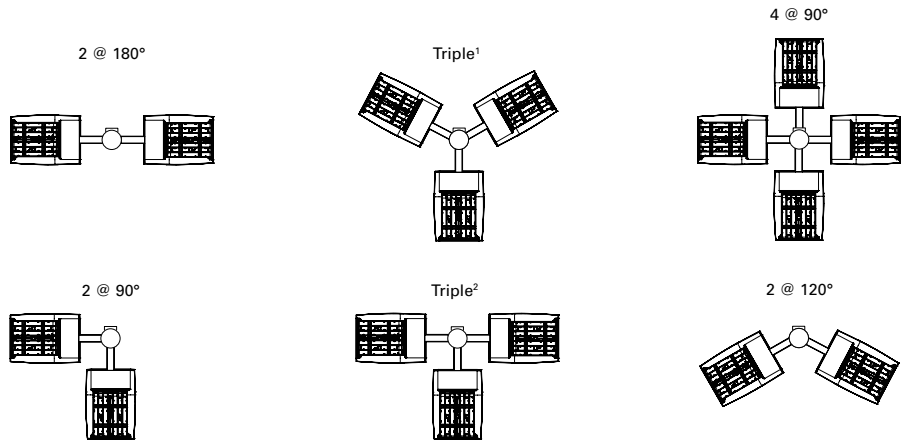
3G Vibration Rated
DesignLights Consortium® Qualified*
Dark Sky Approved (3000K CCT and warmer only)
IP66 Rated
ISO 9001
LM79 / LM80 Compliant
UL/cUL Wet Location Listed

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)

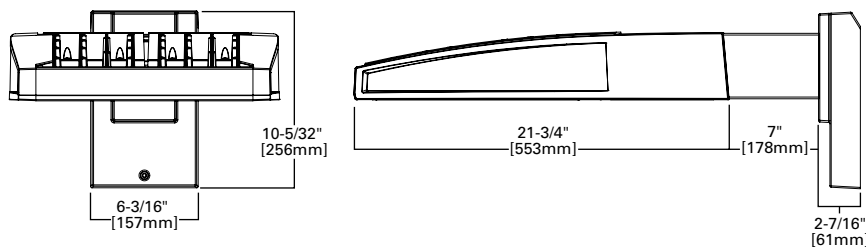
ARM MOUNTING REQUIREMENTS

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

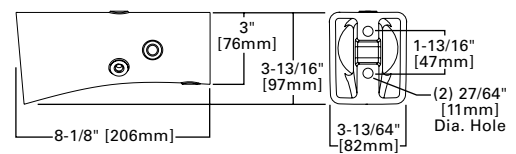


NOTES: 1 Round poles are 3 @ 120°. Square poles are 3 @ 90°. 2 Round poles are 3 @ 90°.

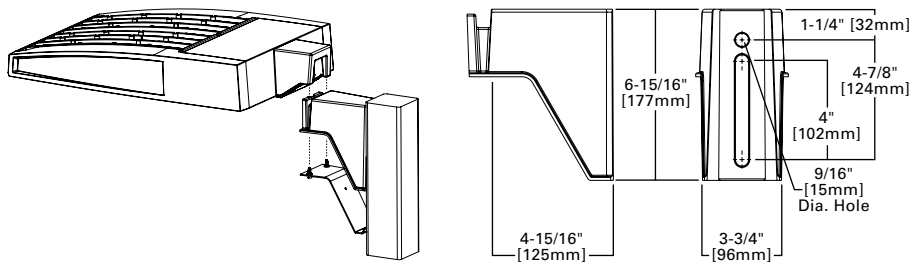
STANDARD WALL MOUNT



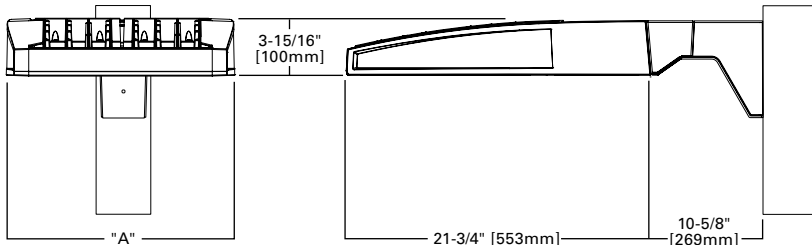
MAST ARM MOUNT



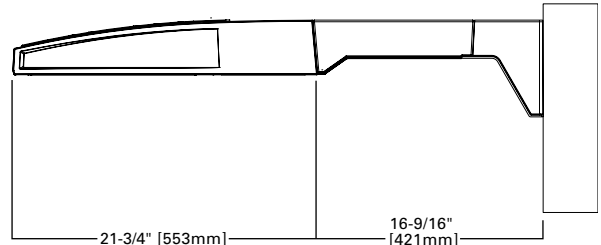
QUICK MOUNT ARM (INCLUDES FIXTURE ADAPTER)



QM Quick Mount Arm (Standard)



QMEA Quick Mount Arm (Extended)

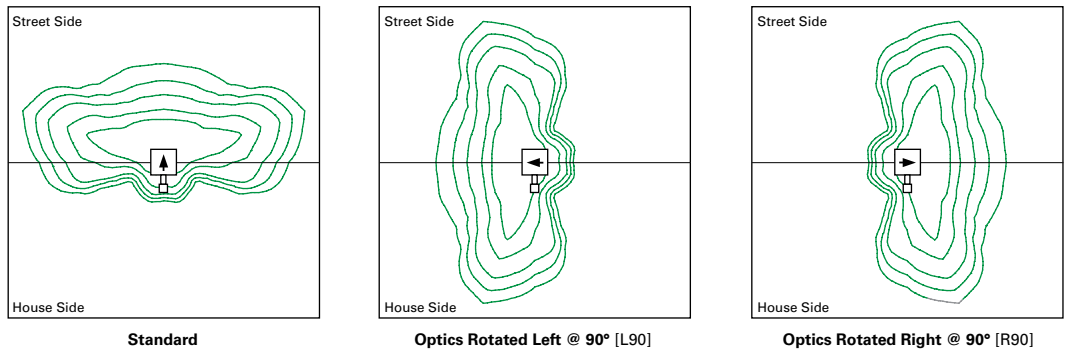


QUICK MOUNT ARM DATA

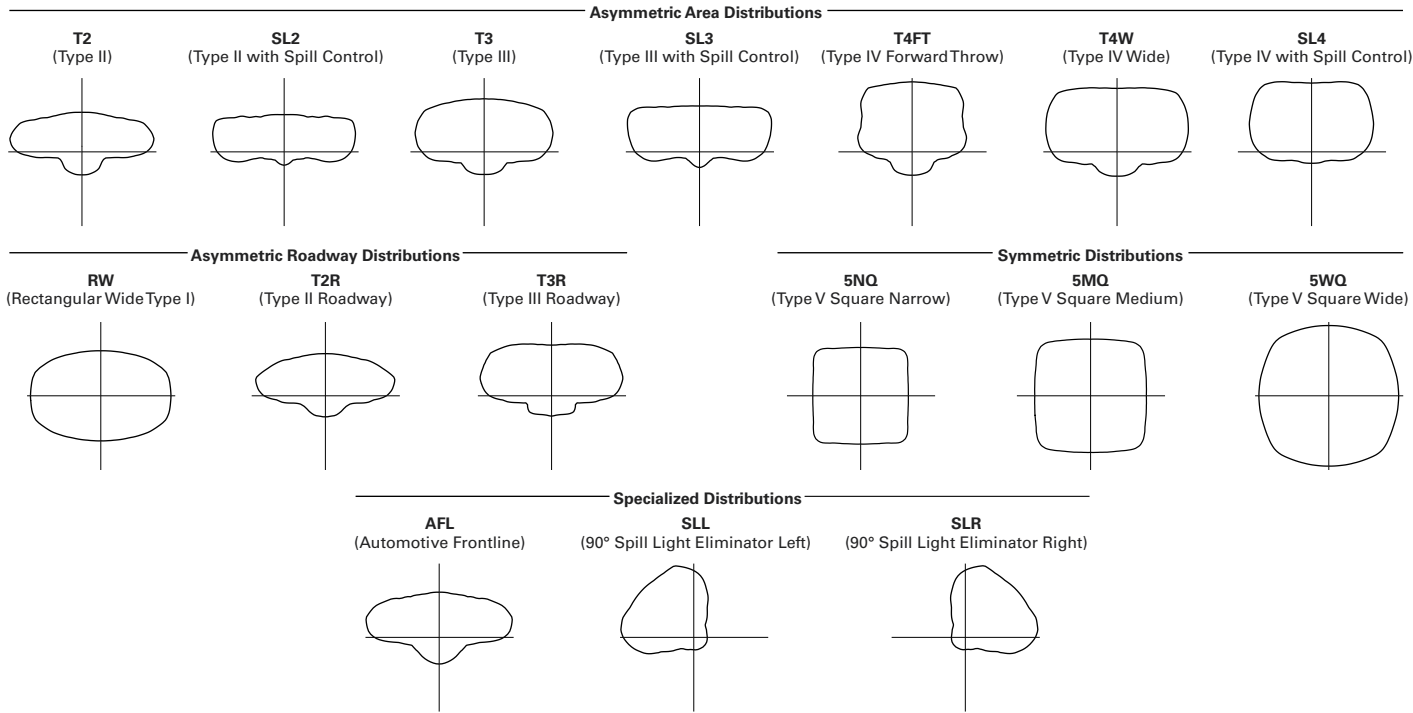
Number of Light Squares ^{1,2}	"A" Width	Weight with QM Arm (lbs.)	Weight with QMEA Arm (lbs.)	EPA (Sq. Ft.)
1-4	15-1/2" (394mm)	35 (15.91 kgs.)	38 (17.27 kgs.)	1.11
5-6 ³	21-5/8" (549mm)	46 (20.91 kgs.)	49 (22.27 kgs.)	
7-8	27-5/8" (702mm)	56 (25.45 kgs.)	N/A	

NOTES: 1 QM option available with 1-8 light square configurations. 2 QMEA option available with 1-6 light square configurations. 3 QMEA arm to be used when mounting two fixtures at 90° on a single pole.

OPTIC ORIENTATION



OPTICAL DISTRIBUTIONS

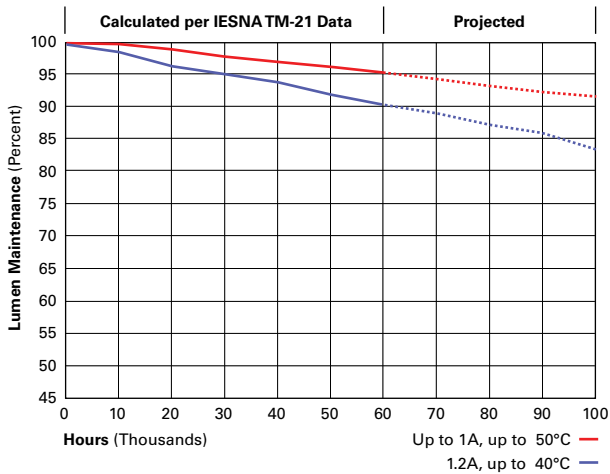


LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	416,000
1.2A	Up to 40°C	> 90%	205,000

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



NOMINAL POWER LUMENS (1.2A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		67	129	191	258	320	382	448	511	575	640
Input Current @ 120V (A)		0.58	1.16	1.78	2.31	2.94	3.56	4.09	4.71	5.34	5.87
Input Current @ 208V (A)		0.33	0.63	0.93	1.27	1.57	1.87	2.22	2.52	2.8	3.14
Input Current @ 240V (A)		0.29	0.55	0.80	1.10	1.35	1.61	1.93	2.18	2.41	2.71
Input Current @ 277V (A)		0.25	0.48	0.70	0.96	1.18	1.39	1.69	1.90	2.09	2.36
Input Current @ 347V (A)		0.20	0.39	0.57	0.78	0.96	1.15	1.36	1.54	1.72	1.92
Input Current @ 480V (A)		0.15	0.30	0.43	0.60	0.73	0.85	1.03	1.16	1.28	1.45
Optics											
T2	4000K/5000K Lumens	6,863	13,412	20,011	26,441	32,761	39,205	46,364	52,534	58,601	64,880
	3000K Lumens	6,489	12,681	18,919	25,000	30,974	37,066	43,836	49,668	55,405	61,341
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	7,285	14,238	21,246	28,072	34,780	41,621	49,221	55,770	62,212	68,878
	3000K Lumens	6,888	13,462	20,087	26,541	32,884	39,351	46,537	52,729	58,819	65,122
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5
T3	4000K/5000K Lumens	6,995	13,670	20,397	26,951	33,391	39,959	47,256	53,544	59,728	66,130
	3000K Lumens	6,613	12,924	19,284	25,480	31,570	37,780	44,679	50,624	56,471	62,524
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	7,150	13,973	20,850	27,549	34,134	40,846	48,307	54,734	61,056	67,598
	3000K Lumens	6,761	13,212	19,713	26,046	32,272	38,619	45,673	51,750	57,726	63,911
	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	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	7,036	13,748	20,515	27,107	33,586	40,191	47,530	53,854	60,074	66,512
	3000K Lumens	6,652	12,999	19,397	25,629	31,754	37,999	44,938	50,917	56,797	62,885
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,945	13,571	20,249	26,756	33,152	39,671	46,917	53,160	59,298	65,653
	3000K Lumens	6,566	12,831	19,146	25,297	31,344	37,508	44,358	50,260	56,064	62,072
	BUG Rating	B1-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	B4-U0-G5
SL2	4000K/5000K Lumens	6,851	13,388	19,977	26,396	32,704	39,137	46,283	52,444	58,498	64,768
	3000K Lumens	6,477	12,658	18,888	24,957	30,920	37,003	43,759	49,584	55,308	61,235
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,994	13,668	20,394	26,947	33,388	39,953	47,249	53,537	59,720	66,119
	3000K Lumens	6,612	12,922	19,281	25,477	31,567	37,774	44,673	50,618	56,463	62,514
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,645	12,986	19,378	25,603	31,723	37,962	44,893	50,868	56,743	62,824
	3000K Lumens	6,282	12,279	18,321	24,207	29,993	35,892	42,445	48,094	53,648	59,398
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	7,214	14,097	21,036	27,795	34,437	41,210	48,734	55,220	61,597	68,199
	3000K Lumens	6,820	13,329	19,888	26,279	32,558	38,962	46,077	52,208	58,237	64,479
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5MQ	4000K/5000K Lumens	7,347	14,356	21,423	28,306	35,071	41,969	49,632	56,237	62,730	69,454
	3000K Lumens	6,947	13,573	20,254	26,762	33,158	39,680	46,925	53,170	59,309	65,667
	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
5WQ	4000K/5000K Lumens	7,366	14,396	21,480	28,381	35,164	42,080	49,765	56,386	62,898	69,639
	3000K Lumens	6,964	13,610	20,308	26,833	33,247	39,786	47,050	53,311	59,468	65,842
	BUG Rating	B3-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	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	6,147	12,010	17,921	23,679	29,339	35,109	41,521	47,046	52,478	58,102
	3000K Lumens	5,811	11,355	16,944	22,388	27,739	33,194	39,256	44,479	49,617	54,933
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	7,149	13,970	20,846	27,543	34,126	40,837	48,295	54,722	61,042	67,582
	3000K Lumens	6,760	13,208	19,709	26,041	32,264	38,610	45,661	51,738	57,713	63,897
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	7,175	14,021	20,921	27,643	34,249	40,986	48,470	54,920	61,262	67,828
	3000K Lumens	6,784	13,256	19,780	26,136	32,381	38,750	45,827	51,925	57,922	64,129
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (1A)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		59	113	166	225	279	333	391	445	501	558
Input Current @ 120V (A)		0.51	1.02	1.53	2.03	2.55	3.06	3.56	4.08	4.60	5.07
Input Current @ 208V (A)		0.29	0.56	0.82	1.11	1.37	1.64	1.93	2.19	2.46	2.75
Input Current @ 240V (A)		0.26	0.48	0.71	0.96	1.19	0.41	1.67	1.89	2.12	2.39
Input Current @ 277V (A)		0.23	0.42	0.61	0.83	1.03	1.23	1.45	1.65	1.84	2.09
Input Current @ 347V (A)		0.17	0.32	0.50	0.64	0.82	1.00	1.14	1.32	1.50	1.68
Input Current @ 480V (A)		0.14	0.24	0.37	0.48	0.61	0.75	0.91	0.99	1.12	1.28
Optics											
T2	4000K/5000K Lumens	6,256	12,225	18,242	24,104	29,865	35,739	42,265	47,888	53,420	59,144
	3000K Lumens	5,915	11,559	17,248	22,789	28,236	33,790	39,960	45,277	50,506	55,919
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T2R	4000K/5000K Lumens	6,642	12,979	19,366	25,589	31,705	37,941	44,870	50,840	56,711	62,789
	3000K Lumens	6,280	12,271	18,311	24,193	29,976	35,872	42,423	48,068	53,619	59,365
	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
T3	4000K/5000K Lumens	6,377	12,461	18,593	24,568	30,439	36,426	43,077	48,810	54,447	60,282
	3000K Lumens	6,029	11,781	17,580	23,229	28,781	34,441	40,731	46,150	51,480	56,997
	BUG Rating	B1-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
T3R	4000K/5000K Lumens	6,518	12,739	19,006	25,113	31,116	37,235	44,036	49,895	55,658	61,622
	3000K Lumens	6,029	11,781	17,579	23,229	28,779	34,440	40,729	46,148	51,478	56,995
	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	B4-U0-G5	B4-U0-G5
T4FT	4000K/5000K Lumens	6,414	12,533	18,702	24,710	30,616	36,637	43,328	49,093	54,763	60,631
	3000K Lumens	6,064	11,849	17,681	23,363	28,946	34,638	40,966	46,417	51,776	57,325
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
T4W	4000K/5000K Lumens	6,331	12,372	18,459	24,391	30,221	36,163	42,769	48,459	54,056	59,849
	3000K Lumens	5,986	11,697	17,452	23,061	28,572	34,192	40,436	45,817	51,108	56,585
	BUG Rating	B1-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	B4-U0-G5
SL2	4000K/5000K Lumens	6,245	12,205	18,212	24,062	29,813	35,677	42,192	47,807	53,326	59,042
	3000K Lumens	5,904	11,539	17,218	22,750	28,187	33,732	39,891	45,199	50,418	55,822
	BUG Rating	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	6,376	12,460	18,591	24,564	30,436	36,421	43,072	48,803	54,439	60,273
	3000K Lumens	6,028	11,780	17,578	23,224	28,776	34,435	40,723	46,141	51,471	56,986
	BUG Rating	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL4	4000K/5000K Lumens	6,058	11,838	17,664	23,340	28,918	34,605	40,924	46,370	51,727	57,269
	3000K Lumens	5,727	11,193	16,701	22,067	27,341	32,718	38,692	43,841	48,906	54,146
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	6,577	12,851	19,176	25,336	31,392	37,566	44,426	50,337	56,151	62,170
	3000K Lumens	6,218	12,151	18,131	23,955	29,680	35,517	42,003	47,592	53,089	58,779
	BUG Rating	B2-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	B5-U0-G4
5MQ	4000K/5000K Lumens	6,697	13,088	19,528	25,803	31,970	38,258	45,243	51,264	57,185	63,313
	3000K Lumens	6,332	12,374	18,463	24,395	30,227	36,171	42,776	48,468	54,066	59,861
	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
5WQ	4000K/5000K Lumens	6,715	13,122	19,580	25,871	32,055	38,360	45,365	51,401	57,337	63,482
	3000K Lumens	6,348	12,406	18,513	24,461	30,307	36,268	42,891	48,599	54,210	60,021
	BUG Rating	B3-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	5,604	10,949	16,337	21,586	26,745	32,004	37,850	42,886	47,838	52,965
	3000K Lumens	5,298	10,351	15,446	20,409	25,287	30,258	35,786	40,547	45,229	50,077
	BUG Rating	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	6,517	12,735	19,002	25,107	31,109	37,227	44,025	49,883	55,644	61,607
	3000K Lumens	6,162	12,040	17,965	23,738	29,413	35,197	41,623	47,163	52,609	58,247
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
AFL	4000K/5000K Lumens	6,541	12,781	19,072	25,199	31,221	37,362	44,185	50,065	55,846	61,831
	3000K Lumens	6,184	12,084	18,032	23,825	29,519	35,325	41,775	47,334	52,801	58,459
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (800MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		44	85	124	171	210	249	295	334	374	419
Input Current @ 120V (A)		0.39	0.77	1.13	1.54	1.90	2.26	2.67	3.03	3.39	3.80
Input Current @ 208V (A)		0.22	0.44	0.62	0.88	1.06	1.24	1.50	1.68	1.87	2.12
Input Current @ 240V (A)		0.19	0.38	0.54	0.76	0.92	1.08	1.30	1.46	1.62	1.84
Input Current @ 277V (A)		0.17	0.36	0.47	0.72	0.83	0.95	1.19	1.31	1.42	1.67
Input Current @ 347V (A)		0.15	0.24	0.38	0.49	0.63	0.77	0.87	1.01	1.15	1.52
Input Current @ 480V (A)		0.11	0.18	0.29	0.37	0.48	0.59	0.66	0.77	0.88	0.96
Optics											
T2	4000K/5000K Lumens	5,054	9,878	14,739	19,475	24,129	28,875	34,148	38,691	43,159	47,785
	3000K Lumens	4,779	9,338	13,935	18,412	22,813	27,301	32,286	36,581	40,805	45,179
	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-G5	B4-U0-G5
T2R	4000K/5000K Lumens	5,366	10,486	15,647	20,675	25,616	30,654	36,252	41,076	45,819	50,730
	3000K Lumens	5,074	9,914	14,794	19,548	24,218	28,982	34,276	38,835	43,320	47,964
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3	4000K/5000K Lumens	5,153	10,068	15,022	19,849	24,593	29,430	34,805	39,436	43,990	48,705
	3000K Lumens	4,872	9,519	14,203	18,766	23,251	27,825	32,907	37,285	41,591	46,048
	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
T3R	4000K/5000K Lumens	5,266	10,292	15,356	20,290	25,140	30,084	35,578	40,312	44,968	49,786
	3000K Lumens	4,979	9,731	14,518	19,184	23,769	28,443	33,638	38,114	42,516	47,071
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	5,182	10,126	15,109	19,964	24,736	29,600	35,006	39,664	44,245	48,987
	3000K Lumens	4,899	9,574	14,285	18,876	23,387	27,986	33,097	37,501	41,832	46,315
	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
T4W	4000K/5000K Lumens	5,115	9,995	14,914	19,706	24,417	29,218	34,554	39,152	43,674	48,354
	3000K Lumens	4,836	9,450	14,100	18,631	23,085	27,624	32,670	37,017	41,292	45,717
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5
SL2	4000K/5000K Lumens	5,046	9,860	14,713	19,441	24,087	28,825	34,089	38,625	43,085	47,702
	3000K Lumens	4,771	9,322	13,911	18,381	22,774	27,253	32,229	36,518	40,735	45,101
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5
SL3	4000K/5000K Lumens	5,152	10,067	15,020	19,846	24,591	29,426	34,800	39,431	43,984	48,698
	3000K Lumens	4,871	9,518	14,200	18,764	23,249	27,822	32,902	37,280	41,585	46,042
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	4,894	9,565	14,271	18,857	23,364	27,959	33,065	37,465	41,792	46,270
	3000K Lumens	4,627	9,043	13,492	17,829	22,090	26,434	31,261	35,422	39,513	43,746
	BUG Rating	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	5,313	10,383	15,493	20,470	25,363	30,351	35,893	40,669	45,367	50,229
	3000K Lumens	5,024	9,817	14,647	19,354	23,980	28,696	33,936	38,452	42,893	47,490
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	5,411	10,574	15,778	20,848	25,830	30,911	36,554	41,418	46,202	51,154
	3000K Lumens	5,117	9,997	14,917	19,710	24,421	29,225	34,561	39,160	43,682	48,364
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	5,426	10,603	15,820	20,903	25,899	30,992	36,652	41,529	46,325	51,290
	3000K Lumens	5,130	10,025	14,958	19,763	24,486	29,302	34,654	39,263	43,799	48,493
	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-G5	B5-U0-G5
SLL/SLR	4000K/5000K Lumens	4,528	8,846	13,199	17,440	21,609	25,858	30,580	34,649	38,651	42,792
	3000K Lumens	4,281	8,364	12,480	16,489	20,430	24,448	28,912	32,759	36,543	40,459
	BUG Rating	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	5,265	10,289	15,353	20,285	25,134	30,077	35,569	40,303	44,958	49,775
	3000K Lumens	4,978	9,727	14,516	19,179	23,763	28,437	33,629	38,105	42,506	47,060
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3	B5-U0-G4
AFL	4000K/5000K Lumens	5,285	10,327	15,409	20,360	25,225	30,186	35,699	40,450	45,120	49,956
	3000K Lumens	4,996	9,763	14,569	19,249	23,849	28,540	33,752	38,244	42,659	47,232
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

NOMINAL POWER LUMENS (600MA)

Number of Light Squares		1	2	3	4	5	6	7	8	9	10
Nominal Power (Watts)		34	66	96	129	162	193	226	257	290	323
Input Current @ 120V (A)		0.30	0.58	0.86	1.16	1.44	1.73	2.03	2.33	2.59	2.89
Input Current @ 208V (A)		0.17	0.34	0.49	0.65	0.84	0.99	1.14	1.30	1.48	1.63
Input Current @ 240V (A)		0.15	0.30	0.43	0.56	0.74	0.87	1.00	1.13	1.30	1.43
Input Current @ 277V (A)		0.14	0.28	0.41	0.52	0.69	0.81	0.93	1.04	1.22	1.33
Input Current @ 347V (A)		0.11	0.19	0.30	0.39	0.49	0.60	0.69	0.77	0.90	0.99
Input Current @ 480V (A)		0.08	0.15	0.24	0.30	0.38	0.48	0.53	0.59	0.71	0.77
Optics											
T2	4000K/5000K Lumens	4,121	8,055	12,019	15,881	19,676	23,547	27,847	31,552	35,196	38,967
	3000K Lumens	3,896	7,615	11,363	15,015	18,604	22,263	26,328	29,831	33,276	36,842
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4
T2R	4000K/5000K Lumens	4,376	8,552	12,760	16,860	20,890	24,998	29,563	33,497	37,365	41,369
	3000K Lumens	4,138	8,085	12,064	15,941	19,751	23,635	27,951	31,670	35,328	39,113
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4
T3	4000K/5000K Lumens	4,201	8,210	12,251	16,187	20,055	23,999	28,383	32,159	35,873	39,718
	3000K Lumens	3,973	7,763	11,583	15,304	18,961	22,691	26,835	30,406	33,916	37,552
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
T3R	4000K/5000K Lumens	4,294	8,393	12,523	16,546	20,501	24,532	29,014	32,875	36,671	40,600
	3000K Lumens	4,060	7,936	11,840	15,644	19,383	23,195	27,432	31,082	34,671	38,386
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
T4FT	4000K/5000K Lumens	4,226	8,257	12,321	16,280	20,172	24,139	28,547	32,346	36,082	39,948
	3000K Lumens	3,996	7,807	11,649	15,392	19,071	22,822	26,990	30,582	34,114	37,770
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
T4W	4000K/5000K Lumens	4,171	8,151	12,162	16,071	19,912	23,827	28,178	31,928	35,615	39,432
	3000K Lumens	3,943	7,706	11,498	15,194	18,825	22,527	26,642	30,187	33,673	37,281
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B3-U0-G5
SL2	4000K/5000K Lumens	4,114	8,041	11,998	15,854	19,643	23,506	27,799	31,498	35,135	38,901
	3000K Lumens	3,890	7,603	11,344	14,989	18,572	22,224	26,282	29,780	33,219	36,779
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5
SL3	4000K/5000K Lumens	4,200	8,209	12,249	16,184	20,053	23,996	28,379	32,154	35,869	39,712
	3000K Lumens	3,972	7,762	11,580	15,302	18,960	22,688	26,831	30,400	33,913	37,546
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
SL4	4000K/5000K Lumens	3,992	7,799	11,638	15,378	19,053	22,801	26,964	30,552	34,081	37,733
	3000K Lumens	3,774	7,374	11,003	14,539	18,015	21,557	25,493	28,886	32,222	35,674
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5
5NQ	4000K/5000K Lumens	4,333	8,467	12,634	16,694	20,683	24,751	29,271	33,166	36,996	40,961
	3000K Lumens	4,097	8,005	11,945	15,784	19,555	23,401	27,674	31,357	34,978	38,727
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G2	B5-U0-G3	B5-U0-G3
5MQ	4000K/5000K Lumens	4,413	8,622	12,867	17,000	21,064	25,207	29,810	33,777	37,677	41,715
	3000K Lumens	4,173	8,152	12,165	16,073	19,915	23,832	28,185	31,934	35,623	39,440
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4
5WQ	4000K/5000K Lumens	4,424	8,646	12,900	17,046	21,120	25,274	29,890	33,866	37,778	41,826
	3000K Lumens	4,182	8,175	12,197	16,117	19,968	23,896	28,260	32,018	35,717	39,545
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G4	B5-U0-G4	B5-U0-G4
SLL/SLR	4000K/5000K Lumens	3,692	7,214	10,763	14,222	17,621	21,086	24,937	28,256	31,519	34,897
	3000K Lumens	3,491	6,820	10,176	13,447	16,660	19,937	23,577	26,715	29,800	32,994
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G3	B2-U0-G3	B2-U0-G3	B2-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
RW	4000K/5000K Lumens	4,293	8,390	12,520	16,542	20,496	24,527	29,007	32,866	36,662	40,591
	3000K Lumens	4,059	7,932	11,837	15,640	19,378	23,189	27,425	31,074	34,662	38,377
	BUG Rating	B2-U0-G1	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2	B5-U0-G3	B5-U0-G3	B5-U0-G3
AFL	4000K/5000K Lumens	4,310	8,421	12,566	16,602	20,571	24,616	29,112	32,986	36,795	40,738
	3000K Lumens	4,074	7,962	11,881	15,697	19,448	23,273	27,525	31,187	34,788	38,516
	BUG Rating	B1-U0-G1	B1-U0-G1	B2-U0-G2	B2-U0-G2	B2-U0-G2	B3-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G3

* Nominal data for 70 CRI.

CONTROL OPTIONS

0-10V (DIM)

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable “dusk-to-dawn” lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

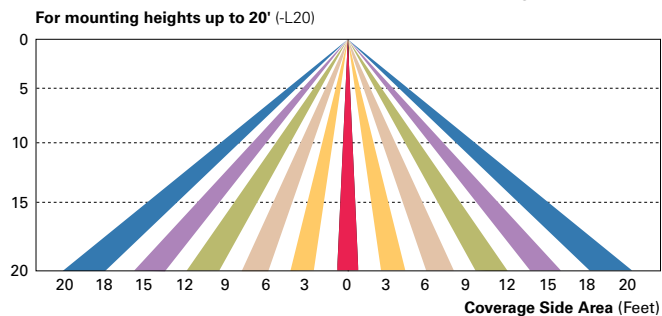
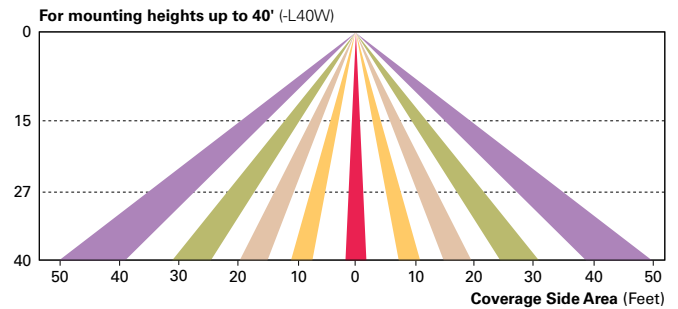
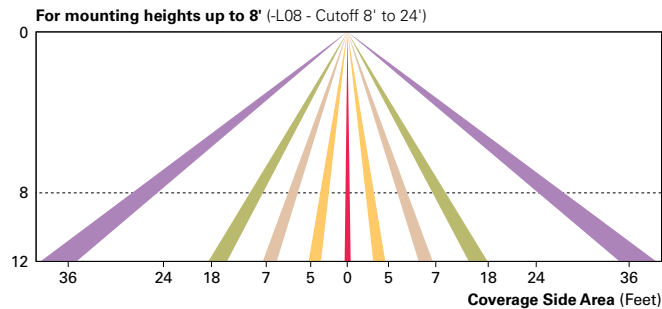
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a “dusk-to-dawn” period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX, MS/X-LXX and MS-LXX)

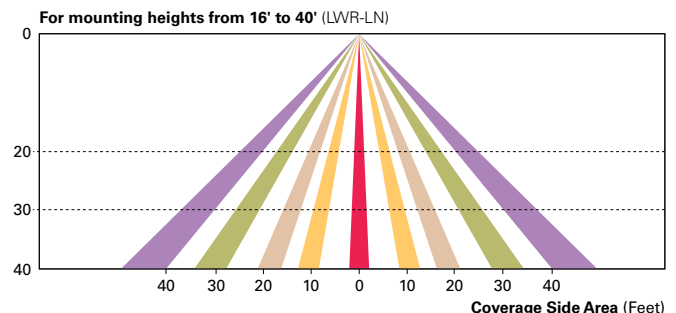
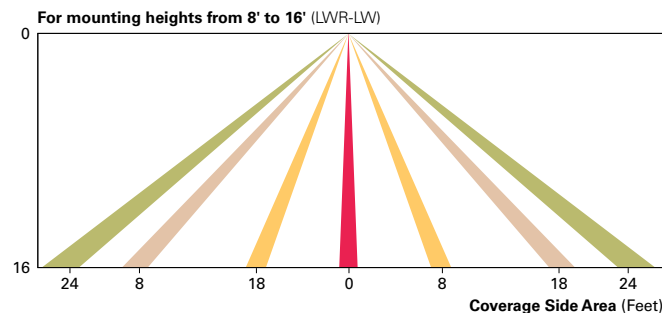
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for “dusk-to-dawn” control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage. pattern for mounting heights from 8'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinx Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinx to control outdoor area, site and flood lighting. WaveLinx controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomical or time schedules based on a 7 day week.

LumenSafe Integrated Network Security Camera (LD)

Cooper Lighting Solutions brings ease of camera deployment to a whole new level. No additional wiring is needed beyond providing line power to the luminaire. A variety of networking options allows security integrators to design the optimal solution for active surveillance. As the ideal solution to meet the needs for active surveillance, the LumenSafe integrated network camera is a streamlined, outdoor-ready fixed dome that provides HDTV 1080p video. This IP camera is optimally designed for deployment in the video management system or security software platform of choice.

Synapse (DIM10)

SimplySNAP integrated wireless controls system by Synapse. Includes factory installed DIM10 Synapse control module and MS/DC motion sensor; requires additional Synapse system components for operation. Contact Synapse at www.synapsewireless.com for product support, warranty and terms and conditions.

ORDERING INFORMATION

Sample Number: GLEON-AF-04-LED-E1-T3-GM-QM

Product Family ^{1, 2}	Light Engine	Number of Light Squares ³	Lamp Type	Voltage	Distribution	Color	Mounting	
GLEON=Galleon	AF=1A Drive Current	01=1 02=2 03=3 04=4 05=5 ⁴ 06=6 07=7 ⁵ 08=8 ⁵ 09=9 ⁶ 10=10 ⁶	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁷ 480=480V ^{7, 8}	T2=Type II T2R=Type II Roadway T3=Type III T3R=Type III Roadway T4FT=Type IV Forward Throw T4W=Type IV Wide 5NQ=Type V Narrow 5MQ=Type V Square Medium 5WO=Type V Square Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I AFL=Automotive Frontline	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White	[Blank]=Arm for Round or Square Pole EA=Extended Arm ⁹ MA=Mast Arm Adapter ¹⁰ WM=Wall Mount QM=Quick Mount Arm (Standard Length) ¹¹ QMEA=Quick Mount Arm (Extended Length) ¹²	
Options (Add as Suffix)						Accessories (Order Separately)		
7027 =70 CRI 2700K ¹³ 7030 =70 CRI 3000K ¹³ 8030 =80 CRI 3000K ¹³ 7050 =70 CRI 5000K ¹³ 7060 =70 CRI 6000K ¹³ AMB =Amber, 590nm ^{16, 35} 600 =Drive Current Set to Nominal 600mA ¹⁵ 800 =Drive Current Set to Nominal 800mA ¹⁵ 1200 =Drive Current Set to Nominal 1200mA ^{15, 16} F =Single Fuse (120, 277 or 347V. Specify Voltage) FF =Double Fuse (208, 240 or 480V. Specify Voltage) 2L =Two Circuits ^{17, 18} DIM =External 0-10V Dimming Leads ^{19, 20} DIM10 =Synapse Integrated Control Module ^{14, 19} AHD145 =After Hours Dim, 5 Hours ²² AHD245 =After Hours Dim, 6 Hours ²² AHD255 =After Hours Dim, 7 Hours ²² AHD355 =After Hours Dim, 8 Hours ²² HA =50°C High Ambient ²³ L90 =Optics Rotated 90° Left R90 =Optics Rotated 90° Right MT =Installed Mesh Top TH =Tool-less Door Hardware HSS =Installed House Side Shield ²⁸ CE =CE Marking ²⁹ LCF =Light Square Trim Painted to Match Housing ²⁷ P =Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) ²¹ PER7 =NEMA 7-PIN Photocontrol Receptacle ²¹ R =NEMA Photocontrol Receptacle ²¹			MS-L08 =Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height ²⁴ MS-L20 =Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height ²⁴ MS-L40W =Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height ²⁴ MS/DIM-L08 = Motion Sensor for Dimming Operation, Maximum 8' Mounting Height ²⁴ MS/DIM-L20 = Motion Sensor for Dimming Operation, 9' - 20' Mounting Height ²⁴ MS/DIM-L40W =Motion Sensor for Dimming Operation, 21' - 40' Mounting Height ²⁴ MS/X-L08 =Bi-Level Motion Sensor, Maximum 8' Mounting Height ^{24, 25} MS/X-L20 =Bi-Level Motion Sensor, 9' - 20' Mounting Height ^{24, 25} MS/X-L40W =Bi-Level Motion Sensor, 21' - 40' Mounting Height ^{24, 25} LWR-LW =Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ²⁸ LWR-LN =Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ²⁸ ZW =WaveLinx-enabled 4-PIN Twistlock Receptacle ^{19, 33} ZW-SWPD4XX =Wavelinx Wireless Sensor, 7' - 15' Mounting Height ^{19, 33, 34} ZW-SWPD5XX =Wavelinx Wireless Sensor, 15' - 40' Mounting Height ^{19, 33, 34}			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 MA1252 =10kV Surge Module Replacement MA1036-XX =Single Tenon Adapter for 2-3/8" O.D. Tenon MA1037-XX =2 @ 180° Tenon Adapter for 2-3/8" O.D. Tenon MA1197-XX =3 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1188-XX =4 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1189-XX =2 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1190-XX =3 @ 90° Tenon Adapter for 2-3/8" O.D. Tenon MA1191-XX =2 @ 120° Tenon Adapter for 2-3/8" O.D. Tenon MA1038-XX =Single Tenon Adapter for 3-1/2" O.D. Tenon MA1039-XX =2 @ 180° Tenon Adapter for 3-1/2" O.D. Tenon MA1192-XX =3 @ 120° Tenon Adapter for 3-1/2" O.D. Tenon MA1193-XX =4 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1194-XX =2 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon MA1195-XX =3 @ 90° Tenon Adapter for 3-1/2" O.D. Tenon FSIR-100 =Wireless Configuration Tool for Occupancy Sensor ²⁴ GLEON-MT1 =Field Installed Mesh Top for 1-4 Light Squares GLEON-MT2 =Field Installed Mesh Top for 5-6 Light Squares GLEON-MT3 =Field Installed Mesh Top for 7-8 Light Squares GLEON-MT4 =Field Installed Mesh Top for 9-10 Light Squares GLEON-QM =Quick Mount Arm Kit ¹¹ GLEON-QMEA =Quick Mount Extended Arm Kit ¹² LS/HSS =Field Installed House Side Shield ^{28, 30} WOLC-7P-10A =WaveLinx Outdoor Control Module ^{19, 31} SWPD4-XX =Wavelinx Wireless Sensor, 7' - 15' Mounting Height ^{19, 32, 33, 34} SWPD5-XX =Wavelinx Wireless Sensor, 15' - 40' Mounting Height ^{19, 32, 33, 34}		

NOTES:

1 Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional support information. 2 DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details. 3 Standard 4000K CCT and minimum 70 CRI. 4 Not compatible with MS/4-LXX or MS/1-LXX sensors. 5 Not compatible with extended quick mount arm (QMEA). 6 Not compatible with standard quick mount arm (QM) or extended quick mount arm (QMEA). 7 Requires the use of an internal step down transformer when combined with sensor options. Not available with sensor at 1200mA. Not available in combination with the HA high ambient and sensor options at 1A. 8 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). 9 May be required when two or more luminaires are oriented on a 90° or 120° drilling pattern. Refer to arm mounting requirement table. 10 Factory installed. 11 Maximum 8 light squares. 12 Maximum 6 light squares. 13 Extended lead times apply. Use dedicated IES files for 2700K, 3000K, 5000K and 6000K when performing layouts. 14 Available in 800mA only. 15 1 Amp standard. Use dedicated IES files for 600mA, 800mA and 1200mA when performing layouts. 16 Not available with HA option. 17 2L is not available with MS, MS/X or MS/DIM at 347V or 480V. 2L in AF-02 through AF-04 requires a larger housing, normally used for AF-05 or AF-06. Extended arm option may be required when mounting two or more fixtures per pole at 90° or 120°. Refer to arm mounting requirement table. 18 Not available with Enlighted wireless sensors. 19 Cannot be used with other control options. 20 Low voltage control lead brought out 18" outside fixture. 21 Not available if any "MS" sensor is selected. Motion sensor has an integral photocell. 22 Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information. 23 50°C lumen maintenance data applies to 600mA, 800mA and 1A drive currents. 24 The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information. 25 Replace X with number of Light Squares operating in low output mode. 26 Enlighted wireless sensors are factory installed only requiring network components LWP-EM-1, LWP-GW-1 and LWP-PoE8 in appropriate quantities. See www.cooperlighting.com/lighting for Enlighted application information. 27 Not available with house side shield (HSS). 28 Only for use with SL2, SL3, SL4 and AFL distributions. The Light Square trim plate is painted black when the HSS option is selected. 29 CE is not available with the LWR, MS, MS/X, MS/DIM, P, R or PER7 options. Available in 120-277V only. 30 One required for each Light Square. 31 Requires PER7. 32 Requires ZW. 33 WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed. 34 Replace XX with sensor color (WH, BZ, or BK). 35 Narrow-band 590nm +/-5nm for wildlife and observatory use. Supplied at 500mA drive current only. Available with 5WQ, 5MQ, SL2, SL3 and SL4 distributions. Can be used with HSS option.

LumenSafe Integrated Network Security Camera Technology Options (Add as Suffix)

Product Family	Camera Type	Data Backhaul
L=LumenSafe Technology* 	D=Dome Camera, Standard H=Dome Camera, Hi-Res Z=Dome Camera, Remote PTZ	C=Cellular, Customer Installed SIM Card A=Cellular, Factory Installed AT&T SIM Card V=Cellular, Factory Installed Verizon SIM Card S=Cellular, Factory Installed Sprint SIM Card W=Wi-Fi Networking w/ Omni-Directional Antenna E=Ethernet Networking

*Consult LumenSafe system pages for additional details and compatibility.

DESCRIPTION

The Galleon™ Wall LED luminaire's appearance is complementary with the Galleon area and site luminaire bringing a modern architectural style to lighting applications. Flexible mounting options accommodate wall surfaces in both an upward and downward configuration. The Galleon family of LED products deliver exceptional performance with patented, high-efficiency AccuLED Optics™, providing uniform and energy conscious lighting for parking lots, building and security lighting applications.

SPECIFICATION FEATURES

Construction

Driver enclosure thermally isolated from optics for optimal thermal performance. Heavy wall aluminum housing die-cast with integral external heat sinks to provide superior structural rigidity and an IP66 rated housing. Overall construction passes a 1.5G vibration test to ensure mechanical integrity. UPLIGHTING: Specify with the UPL option for inverted mount upright housing with additional protections to maintain IP rating.

Optics

Choice of thirteen patented, high-efficiency AccuLED Optics. The 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 and minimum 70 CRI. Optional 3000K, 5000K

and 6000K CCT. Greater than 90% lumen maintenance expected at 60,000 hours. Available in standard 1A drive current and optional 1200mA, 800mA, and 600mA drive currents.

Electrical

LED drivers are mounted for ease of maintenance. 120-277V 50/60Hz, 347V or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Drivers are provided standard with 0-10V dimming. An optional Cooper Lighting Solutions proprietary surge protection module is available and designed to withstand 10kV of transient line surge. The Galleon Wall 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. Emergency egress options for -20°C ambient environments and occupancy sensor available.

Mounting

Gasketed and zinc plated rigid steel mounting attachment fits directly to 4" j-box or wall with the Galleon Wall "Hook-N-Lock" mechanism for quick installation. Secured with two captive corrosion resistant black oxide coated allen head set screws which are concealed but accessible from bottom of fixture.

Finish

Housing finished in super durable TGIC polyester powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Standard colors include black, bronze, grey, white, dark platinum and graphite metallic. RAL and custom color matches available. Consult the McGraw-Edison Architectural Colors brochure for the complete selection.

Warranty

Five-year warranty.



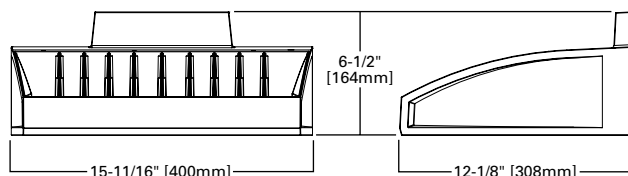
GWC GALLEON WALL

1-2 Light Squares
Solid State LED

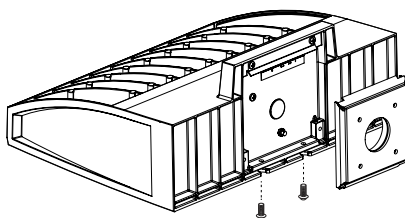
WALL MOUNT LUMINAIRE

WaveLinX

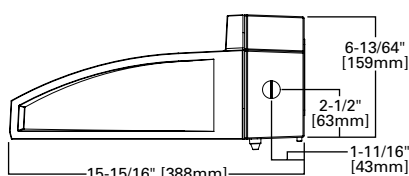
DIMENSIONS



HOOK-N-LOCK MOUNTING



BATTERY BACKUP AND THRU-BRANCH BACK BOX



CERTIFICATION DATA

UL/cUL Listed
LM79 / LM80 Compliant
IP66 Housing
ISO 9001
DesignLights Consortium® Qualified*

ENERGY DATA

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

SHIPPING DATA

Approximate Net Weight:
27 lbs. (12.2 kgs.)

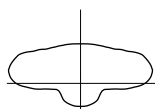
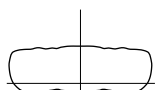
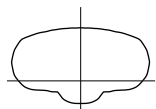
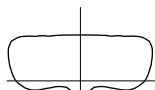
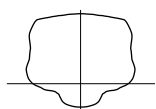
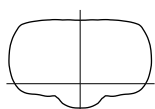
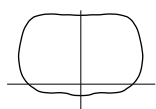
POWER AND LUMENS

Number of Light Squares		1				2			
Drive Current		600mA	800mA	1.0A	1.2A	600mA	800mA	1.0A	1.2A
Nominal Power (Watts)		34	44	59	67	66	86	113	129
Input Current @ 120V (A)		0.30	0.39	0.51	0.58	0.58	0.77	1.02	1.16
Input Current @ 208V (A)		0.17	0.22	0.29	0.33	0.34	0.44	0.56	0.63
Input Current @ 240V (A)		0.15	0.19	0.26	0.29	0.30	0.38	0.48	0.55
Input Current @ 277V (A)		0.14	0.17	0.23	0.25	0.28	0.36	0.42	0.48
Input Current @ 347V (mA)		0.11	0.15	0.17	0.20	0.19	0.24	0.32	0.39
Input Current @ 480V (mA)		0.08	0.11	0.14	0.15	0.15	0.18	0.24	0.30
Optics									
T2	4000K/5000K Lumens	4,204	5,156	6,381	7,000	8,215	10,075	12,470	13,680
	3000K Lumens	3,975	4,874	6,033	6,618	7,767	9,525	11,790	12,934
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T3	4000K/5000K Lumens	4,285	5,256	6,505	7,135	8,375	10,269	12,710	13,943
	3000K Lumens	4,051	4,969	6,150	6,746	7,918	9,710	12,017	13,182
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G2
T4FT	4000K/5000K Lumens	4,311	5,286	6,542	7,177	8,422	10,329	12,784	14,024
	3000K Lumens	4,075	4,998	6,185	6,786	7,963	9,766	12,086	13,259
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3
T4W	4000K/5000K Lumens	4,254	5,217	6,458	7,084	8,313	10,195	12,619	13,843
	3000K Lumens	4,023	4,933	6,105	6,698	7,860	9,639	11,931	13,088
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
SL2	4000K/5000K Lumens	4,196	5,147	6,370	6,988	8,202	10,058	12,449	13,656
	3000K Lumens	3,967	4,866	6,022	6,607	7,755	9,509	11,771	12,911
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3
SL3	4000K/5000K Lumens	4,284	5,255	6,504	7,134	8,374	10,268	12,709	13,941
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
SL4	4000K/5000K Lumens	4,071	4,992	6,179	6,778	7,954	9,756	12,074	13,246
	3000K Lumens	3,849	4,720	5,842	6,408	7,520	9,224	11,415	12,523
	BUG Rating	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G3
5NQ	4000K/5000K Lumens	4,420	5,420	6,709	7,358	8,637	10,591	13,108	14,380
	3000K Lumens	4,179	5,124	6,343	6,957	8,166	10,013	12,393	13,595
	BUG Rating	B2-U0-G1	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2
5MQ	4000K/5000K Lumens	4,501	5,520	6,831	7,494	8,795	10,786	13,350	14,644
	3000K Lumens	4,256	5,219	6,458	7,085	8,316	10,198	12,622	13,845
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2
5WQ	4000K/5000K Lumens	4,513	5,534	6,849	7,514	8,819	10,815	13,385	14,683
	3000K Lumens	4,268	5,232	6,475	7,104	8,338	10,224	12,656	13,882
	BUG Rating	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2	B3-U0-G2	B4-U0-G2	B4-U0-G2	B4-U0-G2
SLL/SLR	4000K/5000K Lumens	3,765	4,619	5,716	6,270	7,358	9,023	11,167	12,251
	3000K Lumens	3,560	4,367	5,404	5,927	6,957	8,531	10,559	11,583
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G3
RW	4000K/5000K Lumens	4,379	5,370	6,647	7,293	8,558	10,494	12,989	14,250
	3000K Lumens	4,141	5,077	6,285	6,895	8,092	9,922	12,281	13,473
	BUG Rating	B2-U0-G1	B2-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G1	B3-U0-G2	B3-U0-G2

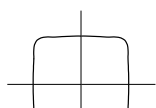
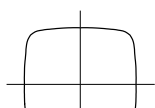
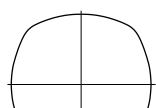
* Nominal lumen data for 70 CRI. BUG rating for 4000K/5000K. Refer to IES files for 3000K BUG ratings.

OPTICAL DISTRIBUTIONS

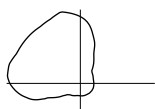
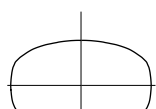
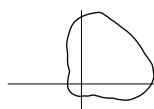
Asymmetric Area Distributions

T2
(Type II)SL2
(Type II with Spill Control)T3
(Type III)SL3
(Type III with Spill Control)T4FT
(Type IV Forward Throw)T4W
(Type IV Wide)SL4
(Type IV with Spill Control)

Symmetric Distributions

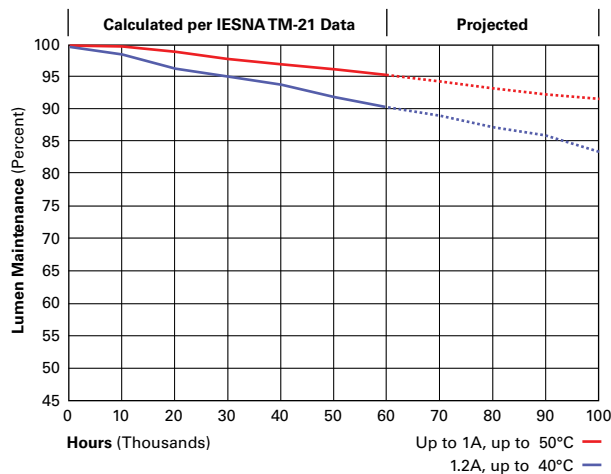
5NQ
(Type V Square Narrow)5MQ
(Type V Square Medium)5WQ
(Type V Square Wide)

Specialized Distributions

RW
(Rectangular Wide Type I) (90° Spill Light Eliminator Left)SLR
(90° Spill Light Eliminator Right)

LUMEN MAINTENANCE

Drive Current	Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Projected L70 (Hours)
Up to 1A	Up to 50°C	> 95%	> 416,000
1.2A	Up to 40°C	> 90%	> 205,000



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

CONTROL OPTIONS

0-10V

This fixture is offered standard with 0-10V dimming driver(s). The DIM option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

Photocontrol (P, R and PER7)

Optional button-type photocontrol (P) and photocontrol receptacles (R and PER7) provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

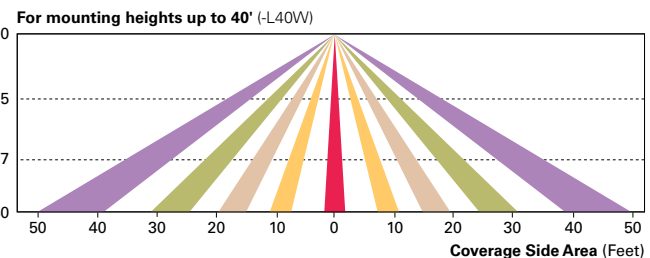
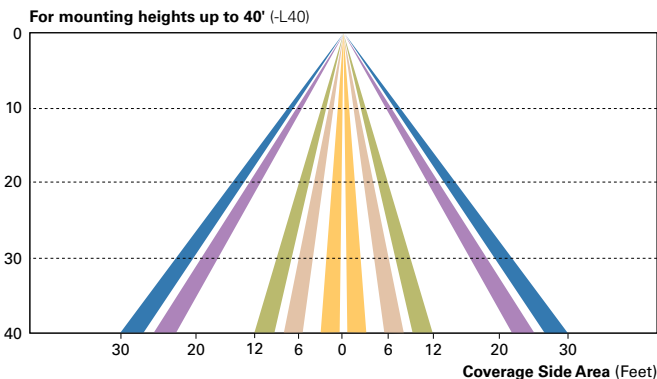
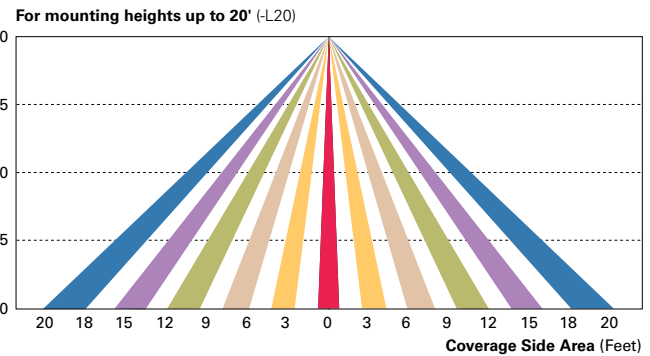
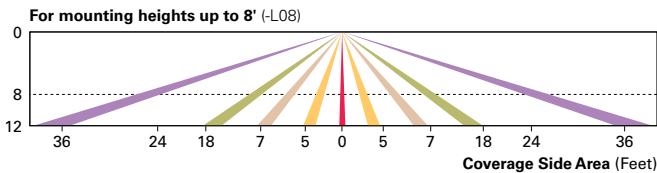
After Hours Dim (AHD)

This feature allows photocontrol-enabled luminaires to achieve additional energy savings by dimming during scheduled portions of the night. The dimming profile will automatically take effect after a "dusk-to-dawn" period has been calculated from the photocontrol input. Specify the desired dimming profile for a simple, factory-shipped dimming solution requiring no external control wiring. Reference the After Hours Dim supplemental guide for additional information.

Dimming Occupancy Sensor (MS/DIM-LXX and MS-LXX)

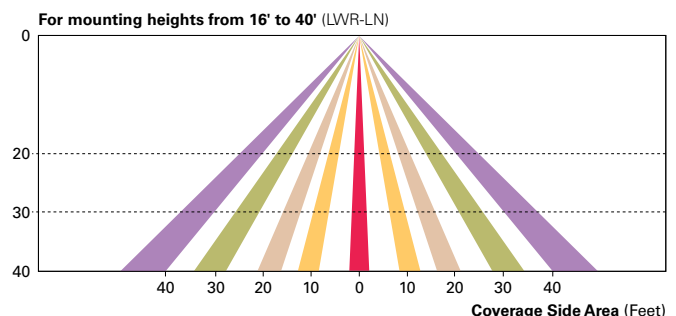
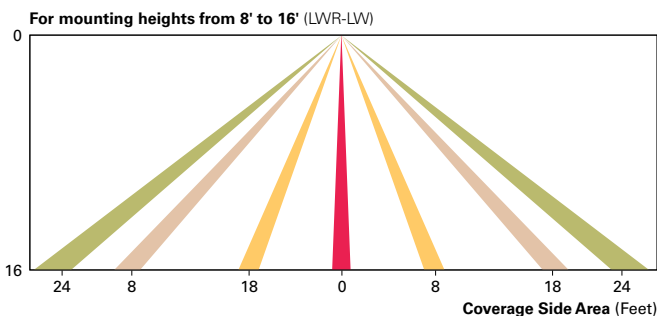
These sensors are factory installed in the luminaire housing. When the MS/DIM-LXX sensor option is selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. The MS/X-LXX is also preset for five minutes and only controls the specified number of light engines to maintain steady output from the remaining light engines.

These occupancy sensors includes an integral photocell that can be activated with the FSIR-100 accessory for "dusk-to-dawn" control or daylight harvesting - the factory preset is OFF. The FSIR-100 is a wireless tool utilized for changing the dimming level, time delay, sensitivity and other parameters. A variety of sensor lens are available to optimize the coverage pattern for mounting heights from 8'-40'.



Enlighted Wireless Control and Monitoring System (LWR-LW and LWR-LN)

Enlighted is a connected lighting solution that combines a broad selection of energy-efficient LED luminaires with a powerful integrated wireless sensor system. The sensor controls the lighting system in compliance with the latest energy codes and collects valuable data about building performance and use. Software applications turn the granular data into information through energy dashboards and specialized apps that make it simple and help optimize the use of building resources, beyond lighting.



WaveLinX Wireless Outdoor Lighting Control Module (WOLC-7P-10A)

The 7-pin wireless outdoor lighting control module enables WaveLinX to control outdoor area, site and flood lighting. WaveLinX controls outdoor lighting using schedules to provide ON, OFF and dimming controls based on astronomic or time schedules based on a 7 day week.

ORDERING INFORMATION

Sample Number: GWC-AF-02-LED-E1-T3-GM

Product Family ¹	Light Engine	Number of Light Squares ²	Lamp Type	Voltage	Distribution	Color	Mounting Options
GWC=Galleon Wall	AF=1A Drive Current	01=1 02=2 ³	LED=Solid State Light Emitting Diodes	E1=120-277V 347=347V ⁴ 480=480V ^{4,5}	T2=Type II T3=Type III T4FT=Type IV Forward Throw T4W=Type IV Wide SL2=Type II w/Spill Control SL3=Type III w/Spill Control SL4=Type IV w/Spill Control SLL=90° Spill Light Eliminator Left SLR=90° Spill Light Eliminator Right RW=Rectangular Wide Type I 5NQ=Type V Square Narrow 5MQ=Type V Square Medium 5WQ=Type V Square Wide	AP=Grey BZ=Bronze BK=Black DP=Dark Platinum GM=Graphite Metallic WH=White CC=Custom Color ⁶	[BLANK]=Surface Mount
Options (Add as Suffix)					Accessories (Order Separately)		
7027=70 CRI / 2700K ⁷ 7030=70 CRI / 3000K ⁷ 8030=80 CRI / 3000K ⁷ 7050=70 CRI / 5000K ⁷ 7060=70 CRI / 6000K ⁷ 600=Drive Current Factory Set to 600mA 800=Drive Current Factory Set to 800mA 1200=Drive Current Factory Set to 1200mA ⁸ F=Single Fused (120, 277 or 347V. Must Specify Voltage) FF=Double Fused (208, 240 or 480V. Must Specify Voltage) 10K=10kV Surge Module DIM=0-10V Dimming Leads ^{9,10} DALI=DALI Driver ¹¹ HA=50°C High Ambient ¹² UPL=Uplight Housing ¹³ CBP=Battery Pack with Back Box, Cold Weather Rated ^{3,8,14,27} CBP-CEC=Battery Pack with Back Box, Cold Weather Rated, CEC compliant ^{3,8,14,27} P=Button Type Photocontrol (120, 208, 240 or 277V. Must Specify Voltage) R=NEMA Twistlock Photocontrol Receptacle PER7=NEMA 7-PIN Twistlock Photocontrol Receptacle ¹⁵ AHD145=After Hours Dim, 5 Hours ¹⁶ AHD245=After Hours Dim, 6 Hours ¹⁶ AHD255=After Hours Dim, 7 Hours ¹⁶ AHD355=After Hours Dim, 8 Hours ¹⁶ MS-LXX=Motion Sensor for On/Off Operation ^{17,18,19} MS/DIM-LXX=Motion Sensor for Dimming Operation ^{17,18,19} LWR-LW=Enlighted Wireless Sensor, Wide Lens for 8' - 16' Mounting Height ^{19,20,21} LWR-LN=Enlighted Wireless Sensor, Narrow Lens for 16' - 40' Mounting Height ^{19,20,21} L90=Optics Rotated 90° Left R90=Optics Rotated 90° Right MT=Factory Installed Mesh Top LCF=Light Square Trim Plate Painted to Match Housing ²² HSS=Factory Installed House Side Shield ²³ CE=CE Marking and Small Terminal Block ²⁴ ZW=Wavelinx-enabled 4-PIN Twistlock Receptacle ^{29,30} ZW-SWPD4WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{29,30} ZW-SWPD4BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{29,30} ZW-SWPD5WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{29,30} ZW-SWPD5BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{29,30}					OA/RA1013=Photocontrol Shorting Cap OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V OA/RA1201=NEMA Photocontrol - 347V OA/RA1027=NEMA Photocontrol - 480V MA1252=10kV Circuit Module Replacement MA1059XX=Thru-branch Back Box (Must Specify Color) FSIR-100=Wireless Configuration Tool for Occupancy Sensor ¹⁷ LS/HSS=Field Installed House Side Shield ^{23,25} WOLC-7P-10A=Wavelinx Outdoor Control Module (7-pin) ^{26,29} SWPD4-WH=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, White ^{29,30,31} SWPD4-BZ=Wavelinx Wireless Sensor, 7' - 15' Mounting Height, Bronze ^{29,30,31} SWPD5-WH=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, White ^{29,30,31} SWPD5-BZ=Wavelinx Wireless Sensor, 15' - 40' Mounting Height, Bronze ^{29,30,31}		

NOTES:

- DesignLight Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
- Standard 4000K CCT and minimum 70 CRI.
- Two light squares with CBP options limited to 25°C, 120-277V only. Not available in combination with sensor options at 1200mA.
- Requires the use of a step down transformer. Not available in combination with sensor options at 1200mA.
- 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).
- Custom colors are available. Setup charges apply. Paint chip samples required. Extended Lead times apply.
- Extended lead times apply. Use dedicated IES files when performing layouts.
- Not available with HA option.
- Cannot be used with other control options.
- Low voltage control lead brought out 18" outside fixture.
- Only available with BBB or CWB in single light square. HA option available for single light square only. Limited to 1A and below.
- Not available with 1200, UPL, BBB and CWB options. Available for single light square only.
- Not available with SL2, SL3, SL4, HA, BBB, CWB, R, or PER7 options.
- Operates a single light square only. Operates at -20°C to +40°C. Backbox is non-IP rated.
- Compatible with standard 3-PIN photocontrols, 5-PIN or 7-PIN ANSI controls.
- Requires the use of P photocontrol or the PER7 or R photocontrol receptacle with photocontrol accessory. See After Hours Dim supplemental guide for additional information.
- The FSIR-100 configuration tool is required to adjust parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative at Cooper Lighting Solutions for more information.
- Replace LXX with the available mounting height options: L08, L20, L40 or L40W are the only choices.
- Includes integral photosensor.
- Enlighted wireless sensors are factory installed requiring network components in appropriate quantities. See www.cooperlighting.com for Enlighted application information.
- Bronze sensor is shipped with Bronze fixtures. White sensor shipped on all other housing color options.
- Not available with HSS option.
- Only for use with SL2, SL3 and SL4 distributions. The light square trim plate is painted black when the HSS option is selected.
- CE is not available with the 1200, DALI, LWR, MS, MS/DIM, P, R or PER7 options. Available in 120-277V only.
- One required for each light square.
- Requires PER7.
- Control option limited to P=Button Type Photocontrol (must specify voltage).
- Reserved.
- Cannot be used in conjunction with photocontrol or other controls systems (P, R, MS, LWR).
- WAC Gateway required to enable field-configurability: Order WAC-PoE and WPOE-120 (10V to PoE injector) power supply if needed.
- Requires ZW.

Catalog # :

Project :

Prepared By :

Date :



Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire



The Scottsdale® Vertex™ is the most feature-rich canopy fixture in the marketplace. Innovations such as combined optical distributions, multiple lumen packages, field serviceability and simple installation make this fixture the ideal canopy solution. Its exceptional design and performance are backed by LSI's best-in-class customer service.

SCOTTSDALE

Features & Specifications

Optical System

- Proprietary silicone refractor optics provide exceptional coverage and uniformity in Symmetrical or Combination Forward Throw distributions.
- State-of-the-art silicone optics deliver industry leading optical control with an integrated gasket to provide an IP65 rated sealed optical chamber in one component.
- Silicone optical material does not yellow or crack with age and provides a minimum light transmittance of 93%.
- Available in 5000K and 4000K (+/- 275K) color temperatures.
- Minimum CRI of 70.

Electrical

- High-performance driver features over-voltage, under-voltage, short-circuit and over temperature protection.
- 0-10V dimming (10% - 100%) standard.
- Standard Universal Voltage (120-277 Vac) Input 50/60 Hz or optional High Voltage (347-480 Vac).
- L80 Calculated Life: >100k Hours (See Lumen Maintenance on Page 2)
- Total harmonic distortion: <20%
- Operating temperature: -40°C to +50°C (-40°F to +122°F) when mounted to Steel/Aluminum surfaces for 10L, 13L, & 15L Lumen Packages, +45°C for 20L Lumen Package, and +40°C for 23L Lumen Package. If mounted to a non-metallic surface, reduce ambient by 5°C.
- Power factor: >0.90
- Input power stays constant over life.



Dimmable



WIRELESS CONTROLS

IP65

ARRA
Funding Compliant

UL LISTED



TITLE 24 COMPLIANT



DLC LISTED PREMIUM

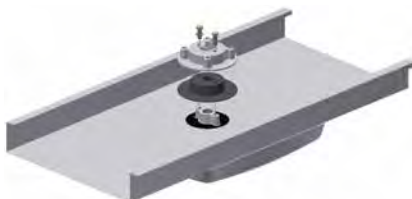
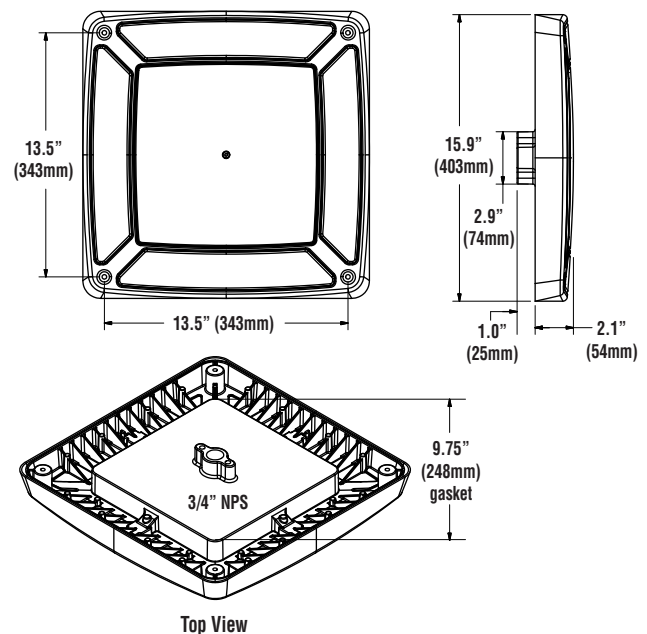


DLC LISTED



MADE IN USA

Dimensions



Locking Collar

Aluminum locking collar and gasket are included and required for complete seal and support of canopy deck.



Conduit Stem Kit

Threaded 5" x 3/4" Conduit Stem and hardware are included to make retrofitting even easier by allowing the use of existing driver boxes and wiring connections on top of canopy.

★ Assembled in USA by an American workforce of American and foreign parts using state-of-the-art equipment at our award-winning manufacturing facility in Ohio. Meets Buy American requirements within the ARRA.



Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire

Features & Specifications (Cont.)

Electrical (continued)

- Field replaceable surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).
- High-efficacy LEDs are mounted to (4) circuit boards to maximize heat dissipation
- Components are fully encased in potting material for moisture resistance. Driver complies with FCC standards.
- A single fastener secures access door to driver and key components and provides quick & easy access to the electrical compartment for servicing.

Construction

- Rugged low-profile die-cast aluminum housing, optical unit, and driver cover.
- Ultra-slim 2" luminaire height and lightweight design effectively target a broad range of applications and allow for easy installations.
- Below canopy access to optical chamber and driver housing for serviceability.
- IP65 rated optical unit protects integral components from low pressure water jets from any direction.
- Luminaire is proudly manufactured in the U.S. of U.S. and imported parts.
- Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling. Other standard LSI finishes available. Consult factory.
- Shipping weight: 15 lbs in carton.

Hazardous Location

- Designed for lighter than air fuel applications. Product is suitable for Class 1 Division 2 with all lumen packages and distributions only when properly installed per LSI installation instructions.

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.

Controls

- Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels (see page 5 for details).
- LSI's AirLink™ wireless control system options reduce energy and maintenance costs while optimizing light quality 24/7 (see page 6 for details).

Installation

- Installs in a 12" or 16" deck pan.
- Four fasteners are provided with the fixture for using sing deck, metallic canopy substrates only when classified as suitable for use by installing professional otherwise suitable fasteners should be provided by others.
- Unit is designed to quickly retrofit into existing Scottsdale (4") hole.
- Aluminum locking collar and gasket are included and required for complete seal and support of canopy deck.
- Retrofit panels are available for existing Encores, Richmond, 2x2 Universal, and more (see accessories on page 3).

Warranty

- LSI LED Fixtures carry a 5-year warranty or 10-year warranty with registration for petroleum applications only (contact your LSI representative for details).

Listings

- Listed to UL 1598 and UL 8750.
- RoHS Compliant.
- State of California Title 24 Compliant with IMS or ALSC/ALSCS option.
- American Recovery and Reinvestment Act Funding Compliant.
- Lighting Facts Approved.
- IP65 Rated Optical Unit.
- 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/QPL to confirm which versions are qualified.

Performance

DELIVERED LUMENS*					
Lumens	4000K		5000K		Wattage
	Delivered Lumens	Efficacy	Delivered Lumens	Efficacy	
10L	10,218	156	10,306	156	66
13L	12,793	153	12,933	153	84
15L	15,209	150	15,411	150	103
20L	20,083	153	20,141	155	130
23L (SC)	22,652	149	23,150	152	153
23L (SCFT)	N/A	N/A	24,361	127	192

*LED Chips are frequently updated therefore values are nominal.

ELECTRICAL DATA - Current Draw (Amps)*						
Lumens	120V	208V	240V	277V	347V	480V
10L	0.55	0.32	0.28	0.24	0.19	0.14
13L	0.70	0.41	0.35	0.30	0.24	0.18
15L	0.86	0.50	0.43	0.37	0.30	0.21
20L	1.09	0.63	0.54	0.47	0.38	0.27
23L (SC)	1.27	0.73	0.64	0.55	0.44	0.32
23L (SCFT)	1.60	0.92	0.80	0.69	0.55	0.40

*Electrical data at 25°C (77°F). Actual wattage may differ by +/-10%.

SC DISTRIBUTION RECOMMENDED LUMEN MAINTENANCE ¹					
Ambient Temperature C	Lumen Multiplier				
	0 hrs. ²	25K hrs. ²	50K hrs. ²	75K hrs. ³	100K hrs. ³
25	1.00	0.96	0.92	0.88	0.84
30	1.00	0.96	0.91	0.87	0.83
35	1.00	0.96	0.91	0.87	0.83
40	1.00	0.96	0.91	0.87	0.83
45	1.00	0.96	0.91	0.87	0.82

- 1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
- 2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).
- 3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).

SCFT DISTRIBUTION RECOMMENDED LUMEN MAINTENANCE ¹					
Ambient Temperature C	Lumen Multiplier				
	0 hrs. ²	25K hrs. ²	50K hrs. ²	75K hrs. ³	100K hrs. ³
25	1.00	1.00	1.00	0.99	0.99
30	1.00	1.00	0.99	0.99	0.99
35	1.00	1.00	0.99	0.99	0.99
40	1.00	1.00	0.99	0.99	0.99

- 1 - Lumen maintenance values at 25°C are calculated per TM-21 based on LM-80 data and in-situ luminaire testing.
- 2 - In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).
- 3 - In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times NA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip).



Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire

Luminaire Ordering Guide

TYPICAL ORDER EXAMPLE: **SCV LED 13L SC UNV DIM 50 WHT IMS**

Family / Size	LED Gen	Lumen Package*	Distribution	Voltage	Driver	Color Temperature	Finish	Controls
SCV - Petroleum Canopy Luminaire	LED	10L - 10000 Lumens 13L - 13000 Lumens 15L - 15000 Lumens 20L - 20000 Lumens 23L - 23000 Lumens	SC - Standard Symmetric	UNV - 120-277V HV - 347-480V	DIM - Dims to 10% (0 to 10V dimming)	40 - 4000K ² 50 - 5000K	WHT - White BLK - Black BRZ - Bronze	Blank - NONE
							Consult factory for additional paint finishes	IMS ^{4,5} - Integral Motion & Daylight Sensor
		23L - 23000 Lumens	SCFT ¹ - Combination Standard Symmetric and Forward Throw					ALSC ³ - AirLink Synapse Wireless Control System ALSCS ³ - AirLink Synapse Wireless Control System with Sensor

Accessory Ordering Information

Description	Order Number
Retrofit Panel Kit - EC / ECTA / SCF to SCV, for 16" Deck Panel with larger openings ⁶	673425
Retrofit Panel Kit - EC / ECTA / SCF to SCV, for 12" Deck Panel ⁷	676011
Retrofit Panel Kit - RECU Richmond to SCV	673426
Retrofit Panel Kit - UNV Universal 2x2 to SCV	673427
Retrofit 2x2 Cover Panel Blank (no holes)	357282
Retrofit RIC Cover Panel Blank (no holes)	354702
26" X 26" Beauty Plate Kit (with 4" Center hole)	557193WHT

Description	Order Number
26" X 32" Beauty Plate Kit (with 4" Center hole)	564160WHT
Junction Box	687461
Kit - Hole Plugs and Sealant (enough for 25 retrofits)	1320540
Rectangular Top Plate Kit (includes top plate and sealant)	678291WHT
Surface Mount Box (Available Soon)	673433
IMS/PC Remote Configurator Tool	584929

FOOTNOTES:

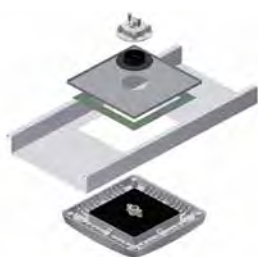
- 1 - Only available in 23L lumen package at 5000K color temperature. Listed under the DLC "Specialty" category.
- 2 - Consult factory on lead times for 4000K CCT.
- 3 - Consult factory for HV with AirLink Synapse Wireless Control System.
- 4 - IMS is a dual sensor (Daylight & Motion) which is field adjustable via IMS hand held remote configurator tool, which must be ordered separately.
- 5 - Not compatible with external dimming.
- 6 - Ideal for 9" to 12" openings.
- 7 - Ideal for 9" openings.



Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire

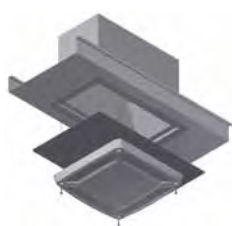
Retrofit Ordering Information

To Retrofit Product	New Construction	Installation Method(s) to identify necessary accessories (Follow all installation instructions)	Part Number
New Construction	New Construction	Use LSI supplied conduit stem with new LSI Junction Box.	687461
LSI Scottsdale	4" Hole	Remove existing fixture and use LSI included conduit stem with existing Scottsdale ballast box.	
		Remove existing Scottsdale and use LSI included conduit stem with new LSI Junction Box.	687461
LSI CRU/CRUS	4" Hole (possibly with EC plates)	Remove existing fixture and use LSI included conduit stem with new LSI Junction Box.	687461
LSI Encore Top Access (ECTA) LSI SCF	16" deck pan with 9" round hole	Remove existing fixture and use LSI included conduit stem with existing ECTA/SCF ballast box and Encore 16" Kit.	673425
		Remove existing fixture and use LSI included conduit stem with LSI Junction Box and new Encore 16" Kit.	673425
	12" deck pan with 9" round hole	Remove existing fixture and use LSI included conduit stem with existing ECTA/SCF ballast box and Encore 12" Kit.	676011
		Remove existing fixture and use LSI included conduit stem with new LSI Junction Box and new Encore 12" Kit.	687461 676011
LSI Encore (bottom access) Cree 304	16" deck pan with 12" square hole	Remove existing fixture and use LSI included conduit stem with new LSI Junction Box and new Encore 16" Kit.	687461 673425
Cree CAN-228 30 LED	16" deck pan with 7.375" x 11.375" rectangular hole	Remove existing fixture and use LSI included conduit stem with new LSI Junction Box and new Encore 16" Kit.	687461 673425
	12" deck pan with 7.375" x 11.375" rectangular hole	Remove existing fixture and use LSI included conduit stem with new LSI Junction Box and new Encore 12" Kit.	687461 676011
LSI CRO2 LSI CRO3 LSI CRS	5-hole pattern with 7" or 4" diameter (could be EC/ECTA retrofit of 9" or 12" hole)	Remove existing fixture and use LSI included conduit stem with existing CRO2/CRO3/CRS junction box.	
RECU Richmond Retrofit	Rectangular Richmond housing	Use new LSI RECU Accessory Kit.	673426
Total Replacement of: LSI Richmond Cree CAN-228 60LED Cree CAN-228 90LED	Rectangular hole 9.5" x 19.125" 7.375" x 16.125" 7.375" x 20.9375"	Remove existing fixture and use LSI included conduit stem with new LSI Rectangular Hole Kit (#TBD) and new LSI Junction Box.	678291WHT 687461
UNV (Universal 2x2) LSI Masters LSI Dakota Other similar 2x2 products	Surface mount 2x2 housing	Use new LSI UNV Accessory Kit.	673427
Remove Surface Mount Box	Conduit hole and possible discoloration of decking	Remove existing fixture and use LSI included conduit stem with new LSI Junction Box. [Possible need for beauty plates: 26" Beauty Plate (no holes) or 26" Beauty Plate with 4" center hole].	687461 357282 557193WHT
To install new Surface Mount Box	N/A	SURFACE MOUNT BOX KIT (AVAILABLE SOON)	673433



Encore 16" Accessory Kit
(673425)
Includes: top panel with sealant

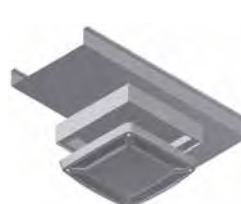
Encore 12" Accessory Kit
(676011)
Includes: top panel with sealant



RECU Accessory Kit
(673426)
Includes cover panel, guide panel, tether clip and hardware



UNV Accessory Kit
(673427)
Includes mounting panel with auxiliary latch, 4 inner flange brackets and hardware to attach panel to fixture



Surface Mount Box Kit
(673433)
Includes 2" deep housing with tether kit, tether bolt and mounting bolts.



Rectangular Hole Kit
(678291WHT)
Includes cover panel, top plate, hardware and sealant



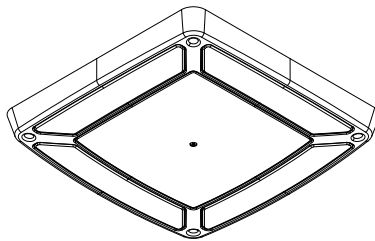
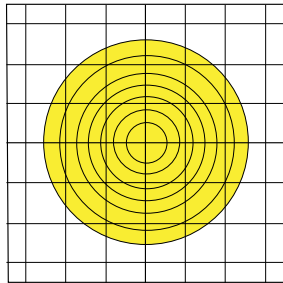
Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire

Photometry

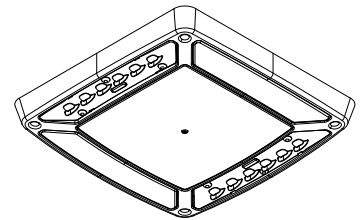
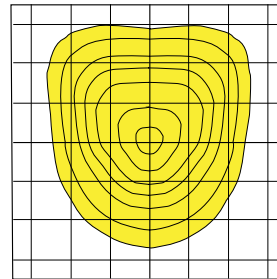
Luminaire photometry has been conducted by an NVLAP accredited testing laboratory in accordance with IESNA LM-79-08. As specified by IESNA LM-79-08 the entire luminaire is tested as the source resulting in a luminaire efficiency of 100%.

See <http://www.lsi-industries.com/products/led-lighting-solutions.aspx> for detailed photometric data.

SC



SCFT

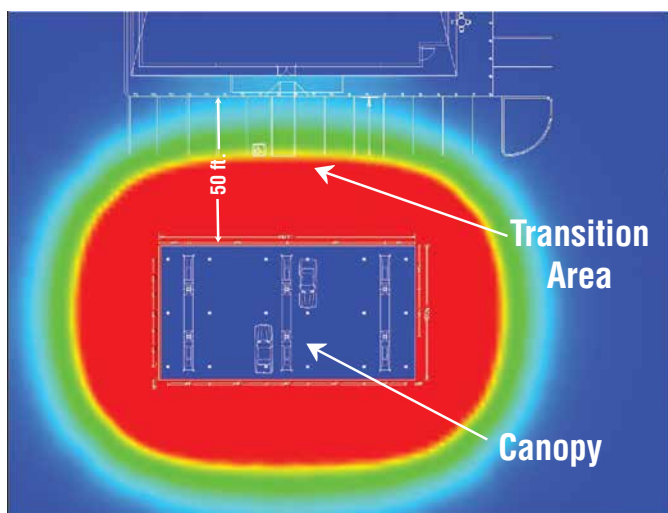


CANOPY COMPARISON

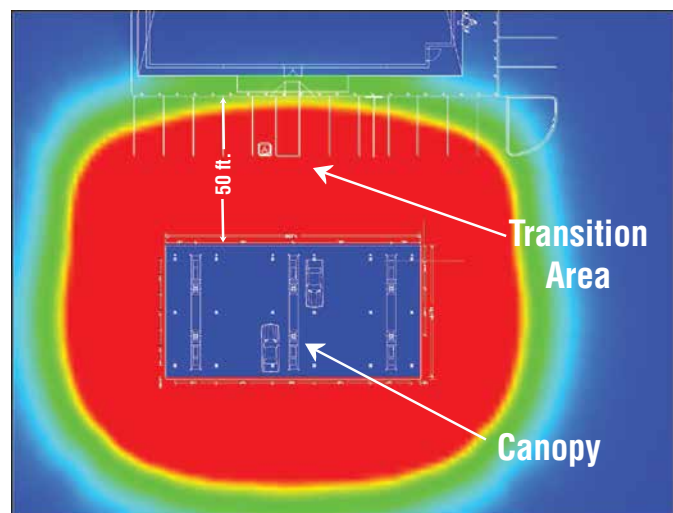
Canopy Layout	Fixture	QTY	Fixture Lumens	Fixture Watts	Lumens/Watts	Canopy/Watts	Canopy Watts/Sq. Ft.	*Canopy/Avg.	*Transition Area Avg.
1	SCV-LED-13L-SC-50	18	12,933	84.3	153	1,717	0.39	35.41	3.43
2	SCV-LED-10L-SC-50	12	10,306	66.1	156	1,942	0.50	34.34	9.58
	SCV-LED-23L-SCFT-50	6	24,361	191.5	127				
3	SCV-LED-13L-SC-50	12	12,933	84.3	153	2,161	0.56	39.43	9.70
	SCV-LED-23L-SCFT-50	6	24,361	191.5	127				
4	SCV-LED-15L-SC-50	12	15,410	103.0	150	2,385	0.62	44.23	9.80
	SCV-LED-23L-SCFT-50	6	24,361	191.5	127				
5	SCV-LED-20L-SC-50	12	20,141	130.3	155	2,713	0.70	53.38	10.03
	SCV-LED-23L-SCFT-50	6	24,361	191.5	127				
6	SCV-LED-23L-SC-50	12	23,150	152.5	152	2,979	0.77	59.22	10.16
	SCV-LED-23L-SCFT-50	6	24,361	191.5	127				

*Initial foot-candle values at grade.

(18) 13L Symmetrical Fixtures



(12) Symmetrical AND (6) Combo FT Fixtures





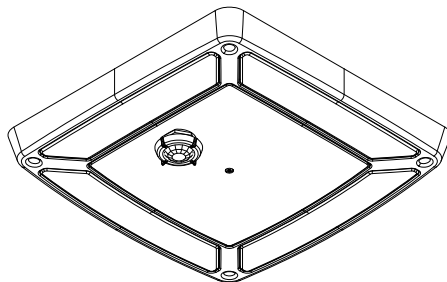
Scottsdale® Vertex™ - SCV Petroleum Canopy LED Luminaire

Controls

Occupancy Sensor / Daylight Sensor (IMS)

Optional integral passive infrared motion and daylight sensor activates switching of luminaire light levels. Standard Factory settings: High level light is activated and increased to full bright upon detection of motion. Low light level (30% maximum drive current) is activated when target zone is absent of motion activity for ~5 minutes. See coverage diagram for detection cone. Optional configurator tool allows for easy and safe programming of each luminaire from the ground level.

IMS/PC Remote Configurator Tool



AirLink™
enabled by Synapse®

Wireless Lighting Controller (ALSC/ALSCS)

The AirLink integrated controller is a California Title 24 compliant lighting controller that provides real-time light monitoring and control with utility-grade power monitoring. It includes a 24V sensor input and power supply to connect up to two (2) sensors into the outdoor AirLink wireless lighting system.

Features

- 2% Utility Grade Power Monitoring
- Up to 80% Savings through smart dimming
- True On/Off functionality via switched relay
- Seamlessly integrates into the outdoor AirLink wireless lighting control solution & Self-healing Mesh Networking
- Relay closes on power loss
- Supports a wide range of LED drivers and fixtures
- Class 1 / Class 2 0-10V Dimming Control
- Direct Connect up to two (2) to 24V Occupancy Sensors and Photocells (consult sales for compatible list)
- Secure, over-the-air upgrades to support future enhancements
- Excellent RF Range — 1,000ft LoS between controllers
- Lights default to on for safety

Specifications

Regulatory Approvals

- FCC, IC, CE certified
- cULus Listed
- California Title 24 compliant

Power and Performance

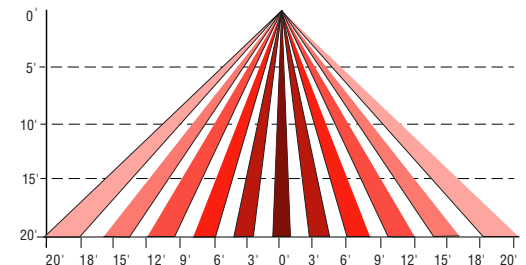
- Operating environmental: -40°F to 131°F (-40°C to 55°C)
- Input power: 100–277 VAC +/- 10% (Max 305V) 47/64 Hz
- Switched output: Default ON; Zero Cross Switching
- Load rating: 5A @ 100V to 277V (+/- 10%)
- Dimming: 0–10V control; Output: Class 1/2 - 20mA Source Max / 50mA Sink Max
- Power monitoring: Utility grade - 2% accuracy
- Sensors inputs: 0–10V (photocell sensors), 0–24V (all other sensors); Sensor power supply: 24VDC @ 50mA

Other

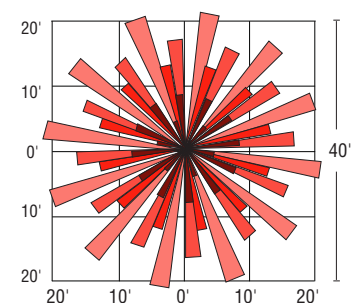
- Radio: SNAP 2.4 GHz; 802.15.4; +20 dBm Transmit Power; -105 dBm Receive Sensitivity
- Warranty: 5 years

IMS Coverage Diagram

SIDE VIEW



TOP VIEW



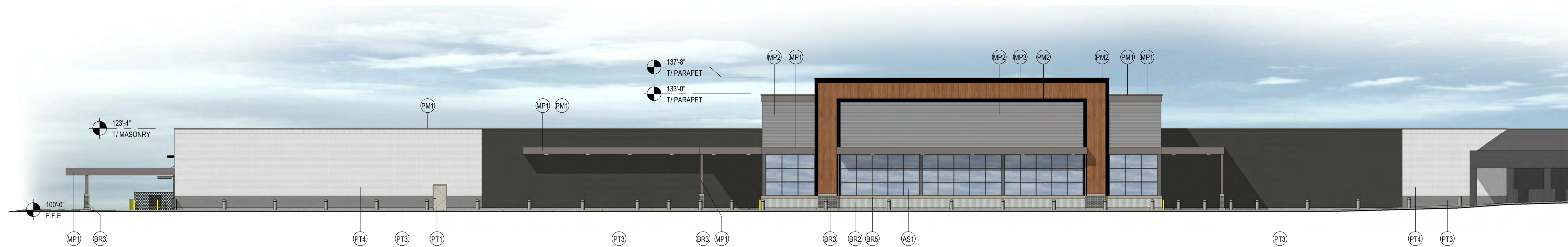
Sales
controls.sales@lsi-industries.com



Support
controls.support@lsi-industries.com
1 (800) 436-7800 (support, option 8)



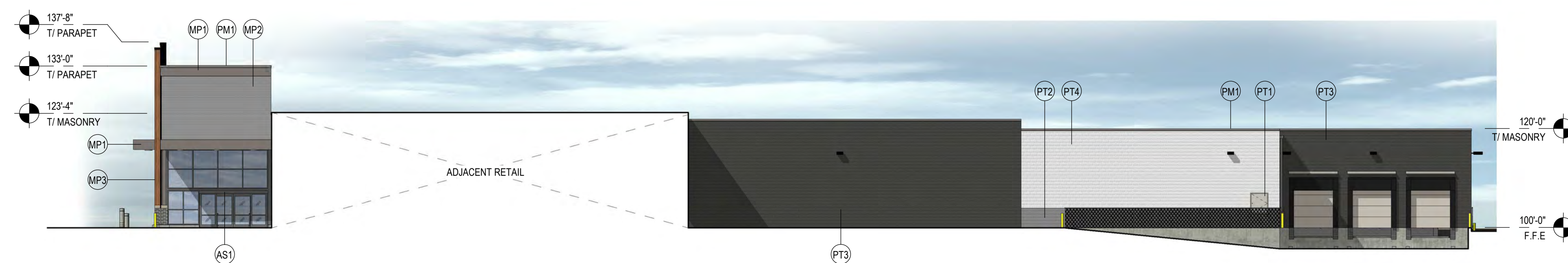
More information
For more information on AirLink, visit our website at www.lsi-airlink.com/airlink



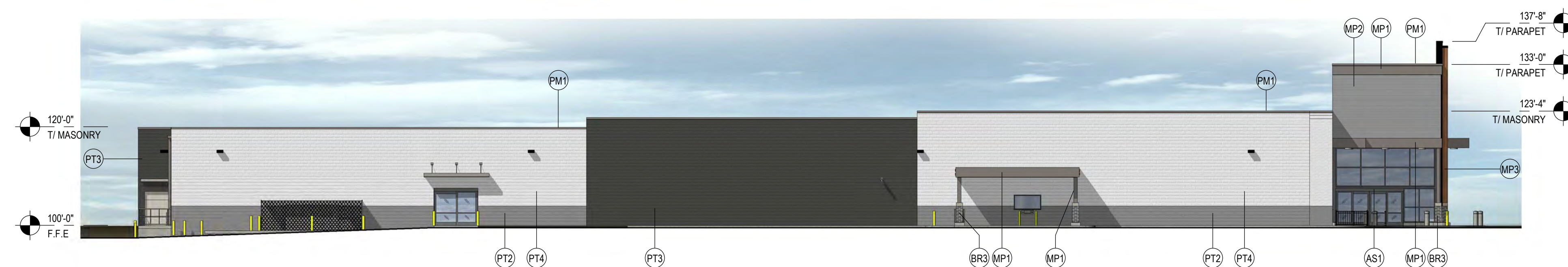
NORTH ELEVATION



SOUTH ELEVATION



WEST ELEVATION



EAST ELEVATION

EXTERIOR MATERIAL LEGEND

- (BL) Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Aspen Cream
- (BR2) Face Brick - Smooth face
Color: Belden Brick - Mayo Clear
- (BR3) Face Brick - Smooth face
Color: Belden Brick - Carbon Black Smooth
- (BL4) Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Timber
- (BR6) Face Brick - Velour face
Color: Belden Brick - Landmark Velour
- (MP1) Metal Panel - Smooth
Color: Slate Gray
- (MP2) Metal Panel - Corrugated
Color: Silversmith
- (MP3) Aluminum Metal Panel - Wood Finish
Color: Light Cherry
- (PM1) Prefinished Metal
Color: Slate Gray
- (PM2) Prefinished Metal
Color: Matte Black
- (AS1) Prefinished Aluminum Storefront
Color: Clear Anodized
- (PT1) Painted Metal
Color: SW7016 "Mindful Gray"
- (PT2) Painted Masonry
Color: Match BL2
- (PT3) Painted Masonry
Color: Match BL3
- (PT4) Painted Masonry
Color: Match BL1



EXTERIOR ELEVATIONS

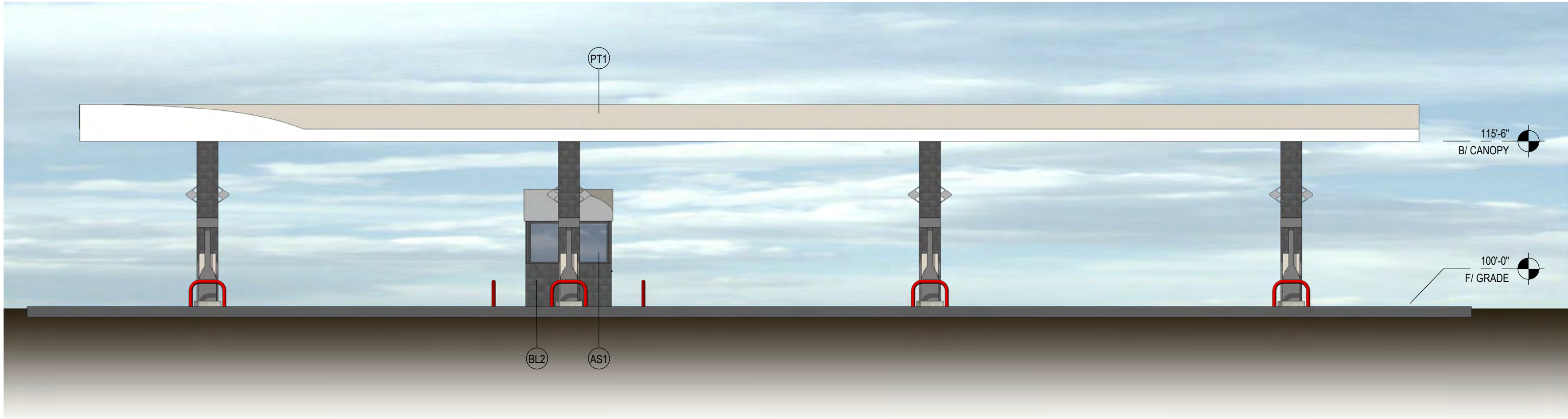
August 18, 2020

KROGER STORE A925

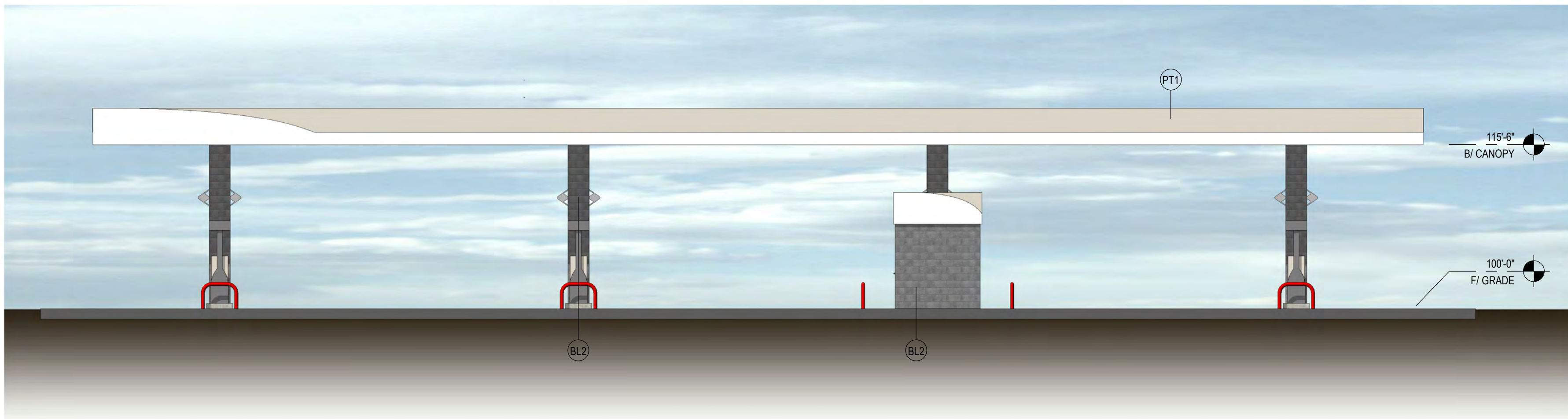
Springboro, OH



520316



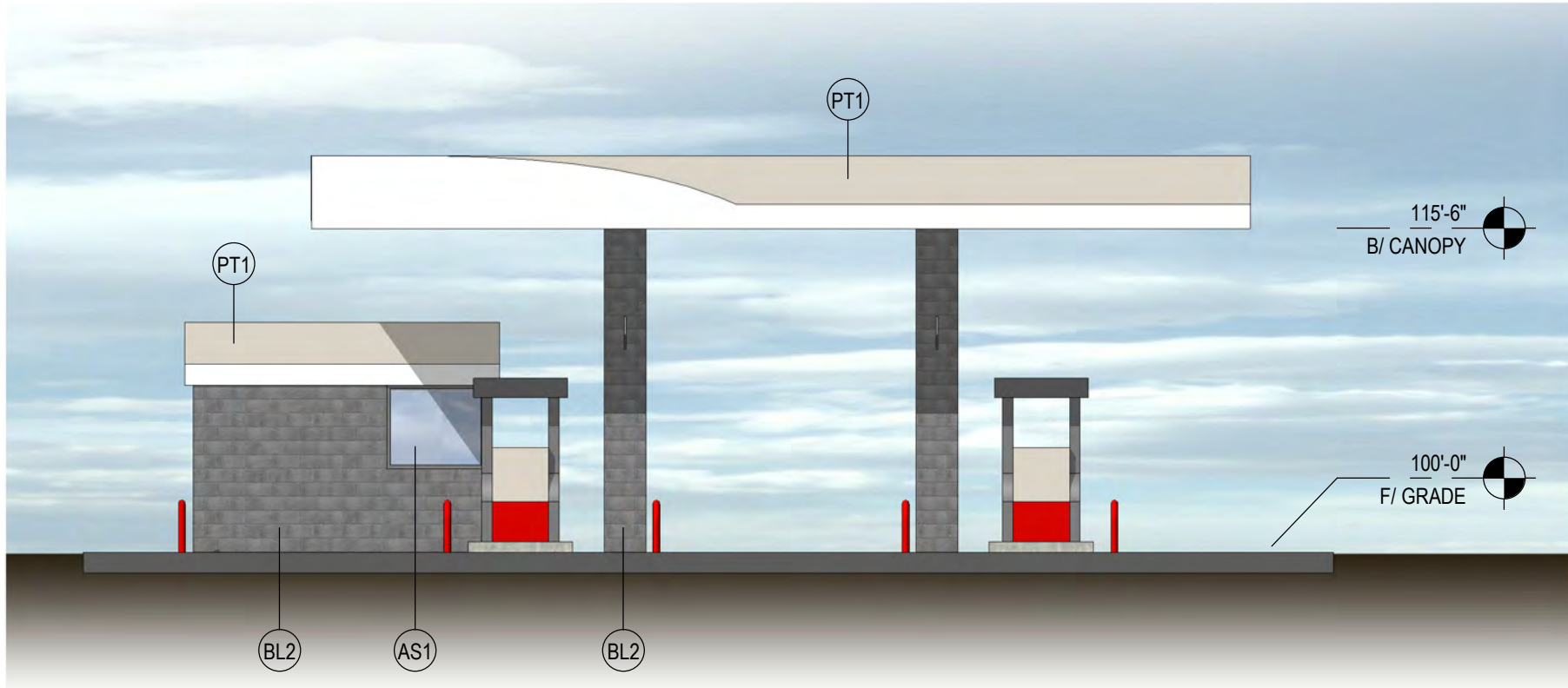
SOUTH ELEVATION



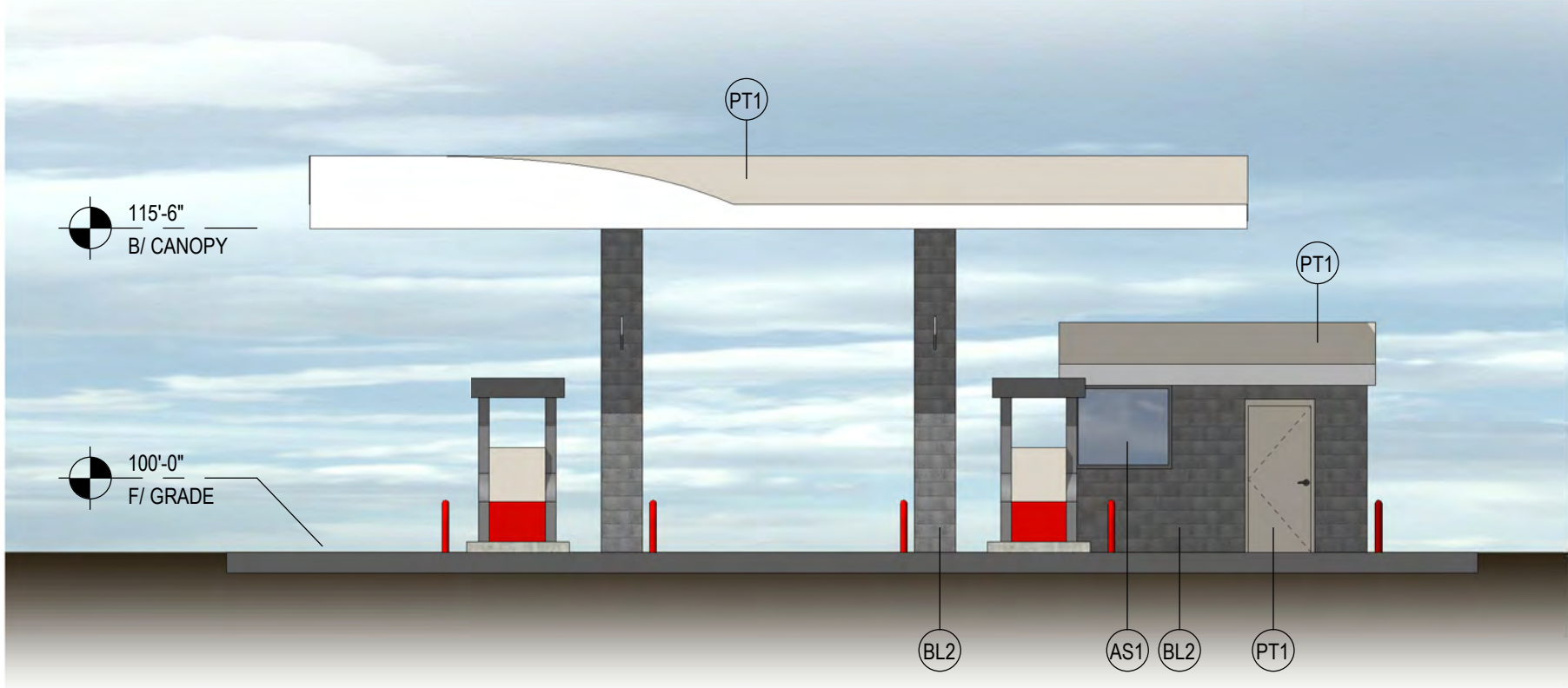
NORTH ELEVATION

EXTERIOR MATERIAL LEGEND

- BL1 Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Aspen Cream
- BL2 Decorative, Integrally Colored CMU - Split face
Color: Lee Brick & Block - Boston Gray
- BL3 Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Breckenridge
- BL4 Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Timber
- BL5 Decorative, Integrally Colored CMU - Smooth face
Color: Lee Brick & Block - Ivory
- MP1 Metal Panel - Smooth
Color: Slate Gray
- MP2 Metal Panel - Corrugated
Color: Silversmith
- MP3 Aluminum Metal Panel - Wood Finish
Color: Light Cherry
- PM1 Prefinished Metal
Color: Slate Gray
- PM2 Prefinished Metal
Color: Matte Black
- AS1 Prefinished Aluminum Storefront
Color: Clear Anodized
- PT1 Painted Metal
Color: SW7016 "Mindful Gray"
- PT2 Painted Masonry
Color: Match BL2
- PT3 Painted Masonry
Color: Match BL3
- PT4 Painted Masonry
Color: Match BL1



WEST ELEVATION



EAST ELEVATION



FUEL CENTER ELEVATIONS

July 24, 2020

KROGER STORE A925

Springboro, OH



Legal Description

Situated in the Township of Clearcreek, City of Springboro, County of Warren and State of Ohio:

And known as being in Section 20, Town 2 East, Range 5 North, Clearcreek Township, City of Springboro, Warren County, Ohio, and including part of Lot Numbered Seven (7) as shown on the Plat of Springboro Business Park, Section Three, recorded in Plat Book 16, Pages 29 and 30, and being more particularly described as follows:

Commencing at the Southwest corner of said Lot #7; thence along the Westerly line of said Lot #7, North 4 deg. 09' 10" East, 329.83 feet; thence along the Northerly line of Lot #7, South 85 deg. 50' 50" East, 174.39 feet to the point of beginning of the parcel herein described; thence departing the Northerly line of Lot #7, North 4 deg. 09' 10" East, 696.75 feet to a point in the old centerline of State Route 73; thence along the said old centerline of State Route 73, South 85 deg. 43' 34" East, 658.50 feet; thence departing the said old centerline of State Route 73, South 04 deg. 09' 10" West, 208.26 feet; thence South 85 deg. 50' 50" East, 230.21 feet to a point in the Westerly line of Pioneer Boulevard; thence along the said Westerly line of Pioneer Boulevard, South 04 deg. 09' 10" West, 596.81 feet; thence departing the said Westerly line of Pioneer Boulevard, North 85 deg. 50' 50" West, 518.10 feet; thence South 4 deg. 09' 10" West, 220.12 feet to the North line of Pleasant Valley Drive; thence along the said North line of Pleasant Valley Drive, North 85 deg. 50' 50" West, 70.00 feet; thence departing the said North line of Pleasant Valley Drive, North 4 deg. 09' 10" East, 325.07 feet to the said North line of Lot #7; thence along the said North line of Lot #7, North 84 deg. 56' 27" West, 300.65 feet to the point of beginning.

Containing 14.948 total acres, of which 1.708 acres is part of Lot 7 of Springboro Business Park, Section Three.

The above described tract contains 14.948 gross acres (13.781 net acres), and is subject to all easements and restrictions of record.



MEMORANDUM Kroger Redevelopment -- Springboro

DATE: September 9, 2020

TO: City of Springboro
Dan Boron, AICP

FROM: Scott Knebel, CMT

CC: Lisa Ammons, Kroger
Anne McBride, McBride Dale Clarion
Bob Trentkamp, TGA

SUBJECT: Traffic Operations Review
Kroger Redevelopment
625 W. Central Avenue

This memorandum serves to summarize a traffic operations review prepared for the proposed Kroger redevelopment in Springboro, Ohio. The existing Kroger is in the southwest quadrant of the Pioneer Boulevard and State Route 73 (W. Central Avenue) intersection. The development plan will relocate Kroger to an adjacent building (former Kmart store) on the same site. The traffic operations review compares two conditions to assess the need for a formal traffic impact study:

1. Number of trips generated of the original development prior to the closing of a 91,888 sqft Kmart store (2006) as shown in **Table A**. The total daily trips (entering and exiting the site) of the original development is equal to 9,848 daily trips – 4,925 entering and 4,23 trips exiting the site.

TABLE A: Original 2006

Land Use	Square Feet or Units	Time Period	ITE Code	ITE Formula	Total Trips	Trips Entering	Trips Exiting
Free-Standing Discount Superstore	91,888 SF	ADT	813	Average Rate = 50.70	4,659	2330	2329
		AM Peak	813	Average Rate = 1.85	170	95	75
		PM Peak	813	Average Rate = 4.33	398	195	203
Supermarket	56,085 SF	ADT	850	T = 70.89(X) + 1212.64	5,189	2595	2594
		AM Peak	850	Average Rate = 3.82	214	128	86
		PM Peak	850	Average Rate = 9.24	518	264	254
Total for 2006 Original Development		ADT	9,848			4925	4923
		AM Peak	384			223	161
		PM Peak	916			459	457

2. The proposed redevelopment for an Opening Day (2021) condition is shown in **Table B**. The trip generation for the proposed redevelopment (2021) shows the total trips for the relocated Kroger store and a 14-position gas station on the existing site. The total daily trips are equal to 10,135 daily trips – 5,068 trips entering and 5,067 trips exiting the site.

TABLE B: Opening Day 2021

Land Use	Square Feet or Units	Time Period	ITE Code	ITE Formula	Total Trips	Trips Entering	Trips Exiting
Free-Standing	0	ADT	813	Average Rate = 50.70	0	0	0
Discount Superstore	SF	AM Peak	813	Average Rate = 1.85	0	0	0
		PM Peak	813	Average Rate = 4.33	0	0	0
Supermarket	90,298	ADT	850	$T = 70.89(X) + 1212.64$	7,614	3807	3807
	SF	AM Peak	850	Average Rate = 3.82	345	207	138
		PM Peak	850	Average Rate = 9.24	834	425	409
Gasoline/Service Station	14	ADT	944	Average Rate = 172.01	2,408	1204	1204
fueling positions		AM Peak	944	Average Rate = 10.28	144	72	72
		PM Peak	944	Average Rate = 14.03	196	98	98
Total for 2021 Opening Day		ADT			10,022	5011	5011
		AM Peak			489	279	210
		PM Peak			1,030	523	507

The total daily trips of the original site (9,848 daily trips) is comparable to the total trips of the redeveloped site (10,022 daily trips). A differential of only 50 trips (507-457) leaving the site can be expected with the proposed redevelopment when comparing trips in the PM peak period.

Adjustment factors of pass-by trips and of captured trips were not applied to the trip comparisons as these factors do not affect the total trips entering or leaving the site.

No operational issues were documented of the original development. **RECOMMENDATION #1: Since the trips of both scenarios are comparable without applying pass-by or captured trip reductions, the need for a formal traffic study is deferred until the time when a tenant is identified to reuse the vacated Kroger building (56,085 sqft).** This methodology is proposed for 2 reasons:

- Capacity issues requiring mitigation have not been identified for the original development (2006) or for the Opening Day (2021) condition.
- The land use of the vacated Kroger store is not known at this time

A site plan review was completed of the existing site to mitigate operational issues of the proposed redevelopment. The recommendations below already have been incorporated into the latest site plan which is shown on Figures 1 and 2.

Site Plan Review

A site plan is shown of the redeveloped Kroger site of the Opening Day (2021) condition. Two primary changes are proposed to the two access points along the SR73 frontage. These changes are to mitigate existing and future operational issues associated with the redevelopment:

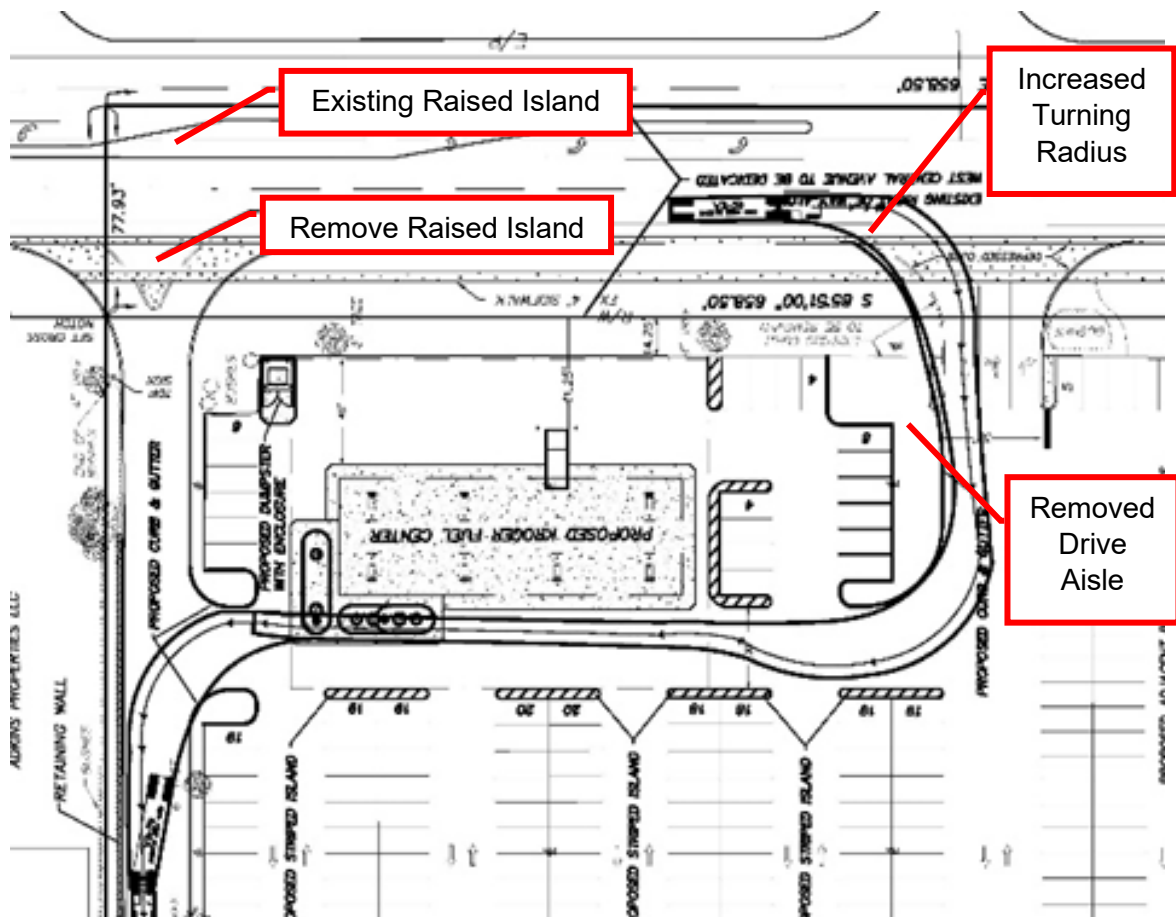
1. The western driveway to SR73 is a right-in, right-out (RIRO) access that serves the existing Kroger parking lot and truck deliveries to the south side of the development. The RIRO operation is achieved with a raised concrete island of the drive apron and by a raised concrete island in the center of SR73.

The future operation of the driveway is expected to be similar with the relocated Kroger store. **Photo 1** shows rutting behind both curbs despite



having a typical radius of 50 feet. The narrow driveway width caused by the raised island on the driveway apron makes navigating the access point challenging especially by large trucks.

RECOMMENDATION #2. removal of the raised island on the driveway apron is proposed to improve the turning radii of trucks entering the site. Eliminating the obstruction of the raised island on the driveway apron will enable vehicles to enter the site with less delay. The RIRO operation of the western Kroger access is retained by the presence of the raised island in the center of SR73. See **Figure 1** below.



2. The existing radius of the site SR73 access opposite Hiawatha Trail is 35 feet which does not accommodate a fuel delivery truck. The routing of the fuel truck is required to access the underground tanks on site from the passenger side of the truck. **RECOMMENDATION #3: reconstruct the radius for entering trucks and for trucks turning towards the new fuel center.** This improvement requires the removal of 7-8 parking spaces near the unsignalized access at the Hiawatha Trail intersection and removes the drive aisle closest to SR73.

The complete site plan including the 2 revisions above are shown on **Figure 2**. Note that the plan shows the proposed changes to the driveway.



Conclusions

The following conclusions result from the trip generation comparison and operations review of the site plan:

1. The trips generated by the original development from 2006 (Kroger + Kmart store) are comparable to the Opening Day (2021) of the proposed redevelopment (Kroger + fuel center). This comparison is made of trips using the driveways to access the site. No changes are proposed to other land uses on site (China Garden, nail salon, and the Burger King outlot) thus will not be factored into the trip comparison. Traffic volumes for these existing land uses are neutral when comparing differences between the original development and the near term, future condition.

Therefore, the trip comparison of **Tables A and B** are conservative indicating that the total number of primary trips (i.e., new trips generated by the redevelopment) are equal to or less than the original development (2006) especially if captured trips were applied to the comparison. Pass-by and captured trip factors were not applied to the trip comparison as these factors reduce the total number of trips on the ***adjacent roadway network***.

Future analysis of the vacated Kroger store will be performed when a tenant is identified to further evaluate primary/ pass-by/ captured trips and traffic operations of the adjacent roadway network.

2. The changes to driveways accessing State Route 73 improve operations of the Hiawatha Trail intersection and of the existing RIRO driveway.
3. Pedestrian crosswalks are marked in the drive aisle between the store front and the handicap parking spaces.
4. Pavement widening is proposed at the south side of the new Kroger store to maintain circulation around the buildings and accommodate a truck dock. The pavement widening does not impact operations of the access points to Pleasant Valley Drive or to Pioneer Boulevard.

Please contact me at 937.776.1040 or via email at sknebel@cmtengr.com if you have any questions regarding the operations of the proposed redevelopment.

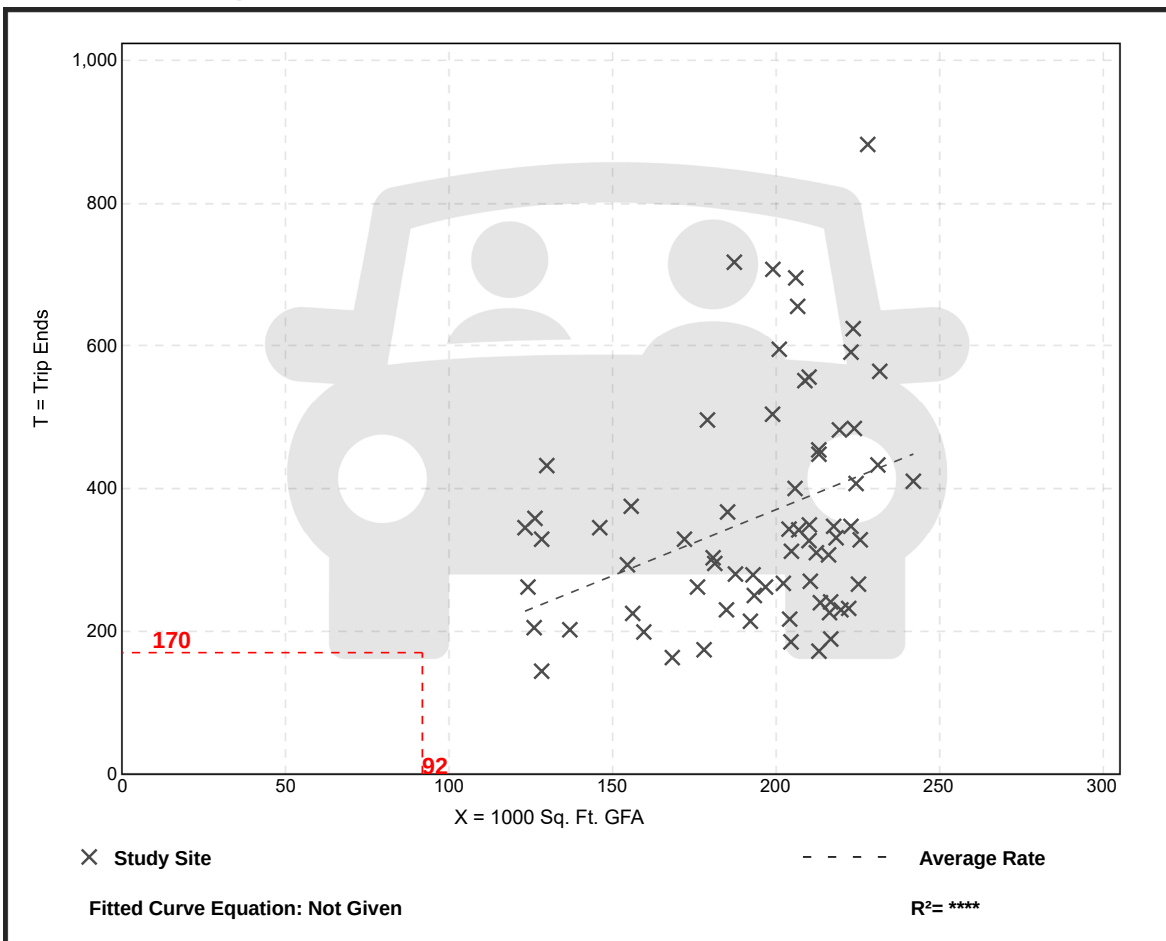
Free-Standing Discount Superstore (813)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 7 and 9 a.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 70
 Avg. 1000 Sq. Ft. GFA: 194
 Directional Distribution: 56% entering, 44% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
1.85	0.81 - 3.86	0.76

Data Plot and Equation



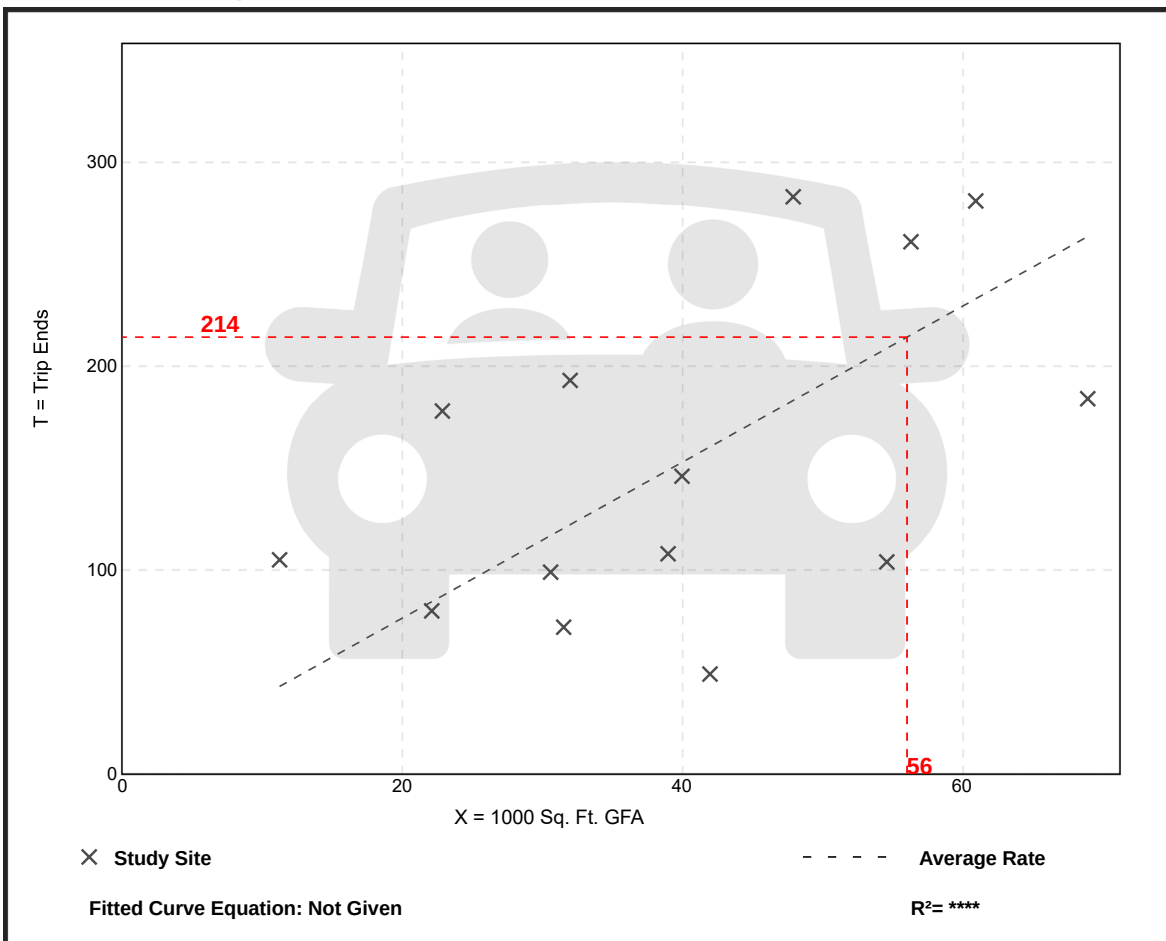
Supermarket (850)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 7 and 9 a.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 14
 Avg. 1000 Sq. Ft. GFA: 40
 Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.82	1.17 - 9.35	1.89

Data Plot and Equation



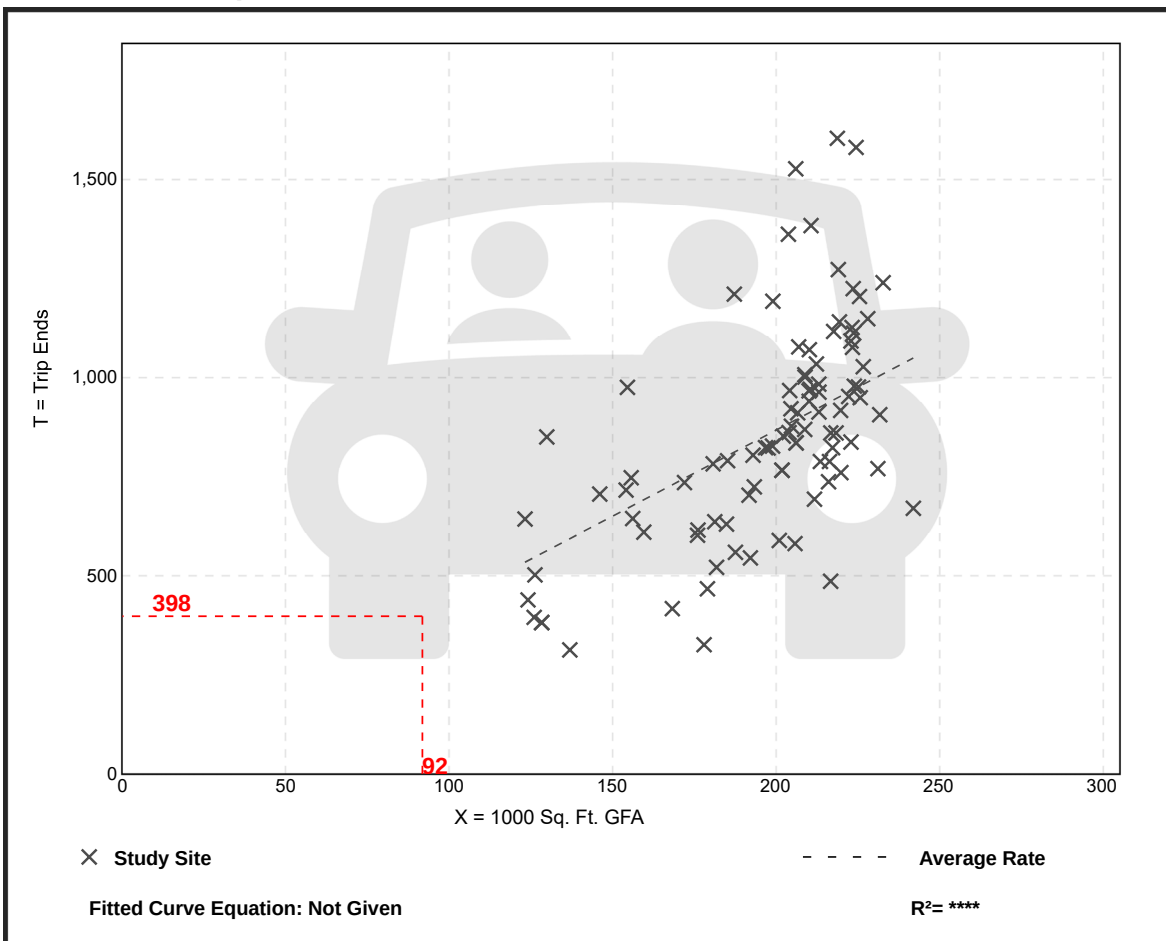
Free-Standing Discount Superstore (813)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 94
 Avg. 1000 Sq. Ft. GFA: 198
 Directional Distribution: 49% entering, 51% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
4.33	1.83 - 7.40	1.10

Data Plot and Equation



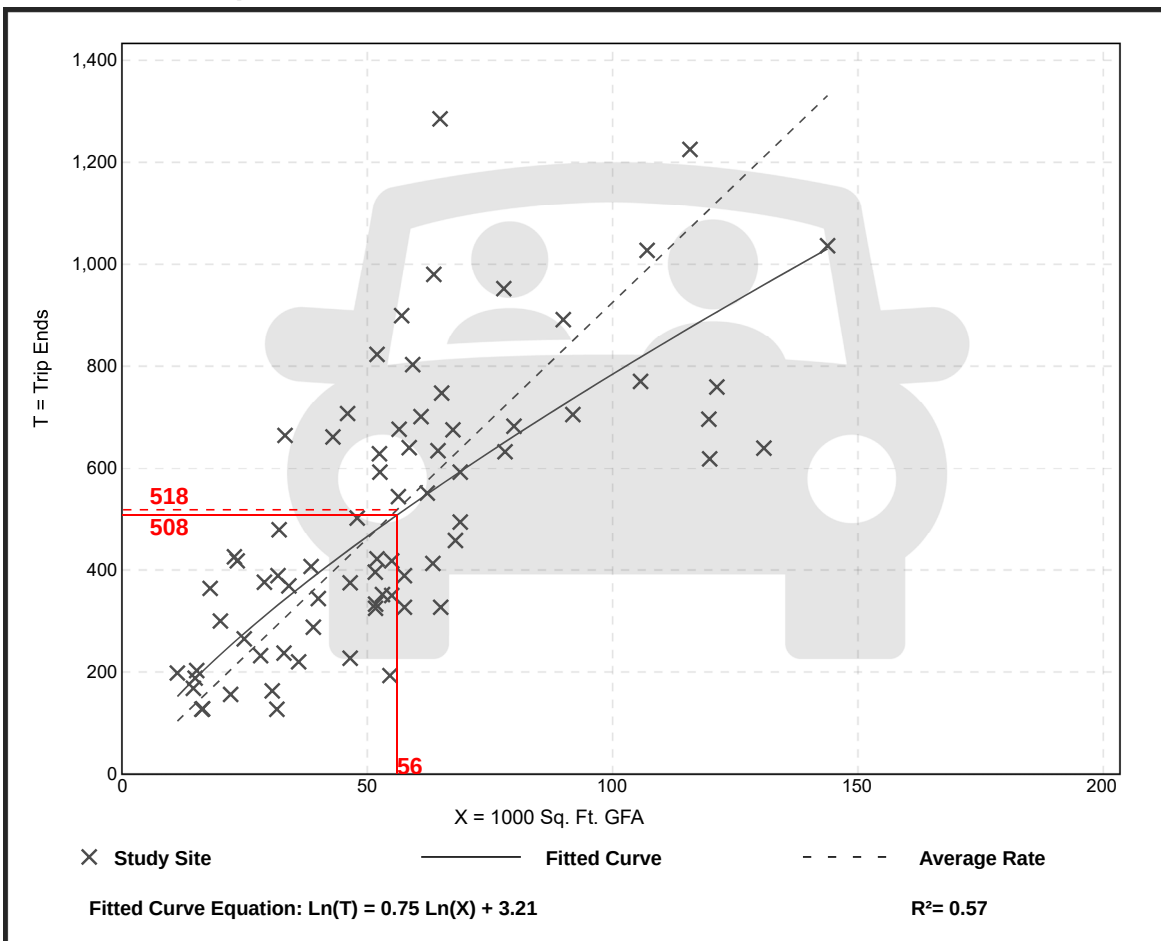
Supermarket (850)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 73
 Avg. 1000 Sq. Ft. GFA: 55
 Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.24	3.53 - 20.30	3.69

Data Plot and Equation



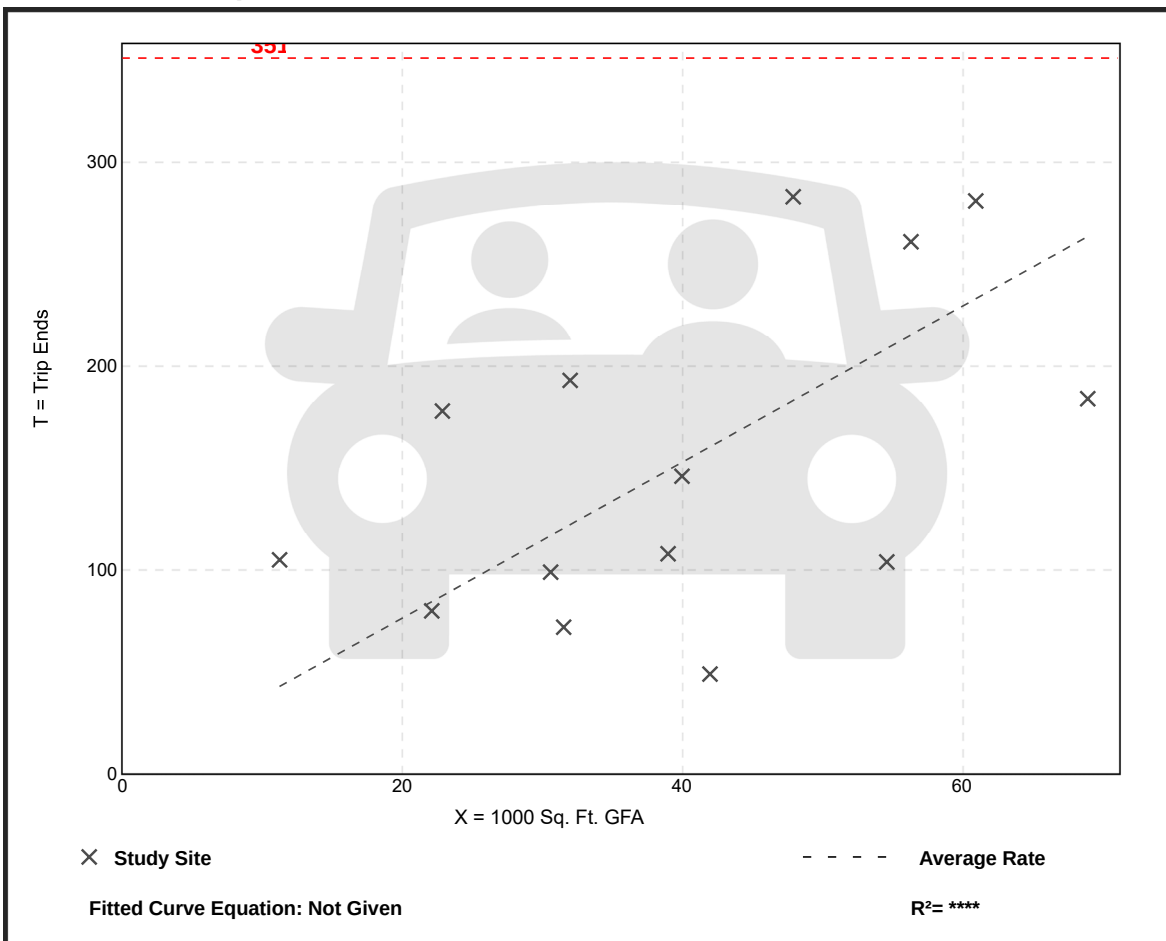
Supermarket (850)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 7 and 9 a.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 14
 Avg. 1000 Sq. Ft. GFA: 40
 Directional Distribution: 60% entering, 40% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
3.82	1.17 - 9.35	1.89

Data Plot and Equation



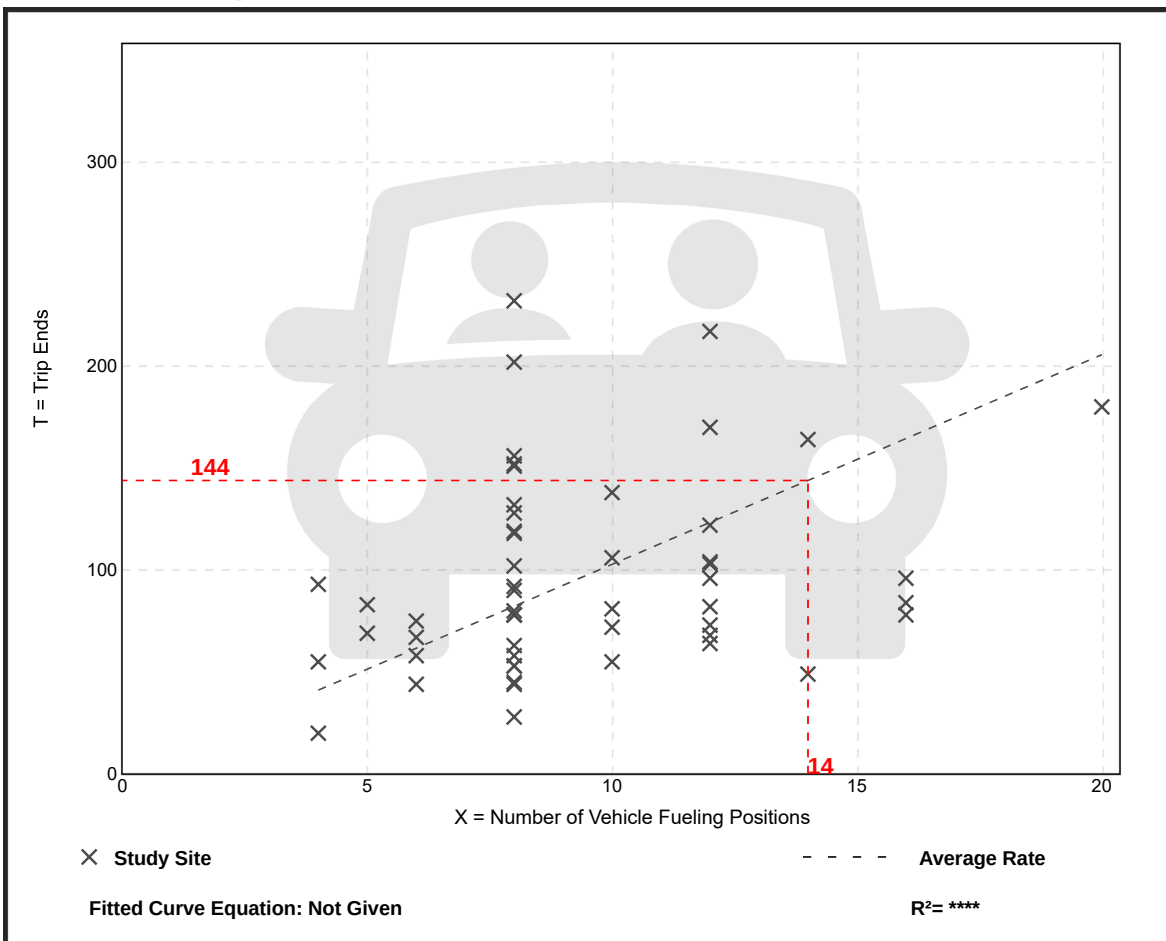
Gasoline/Service Station (944)

Vehicle Trip Ends vs: Vehicle Fueling Positions
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 7 and 9 a.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 53
 Avg. Num. of Vehicle Fueling Positions: 9
 Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Vehicle Fueling Position

Average Rate	Range of Rates	Standard Deviation
10.28	3.50 - 29.00	5.36

Data Plot and Equation



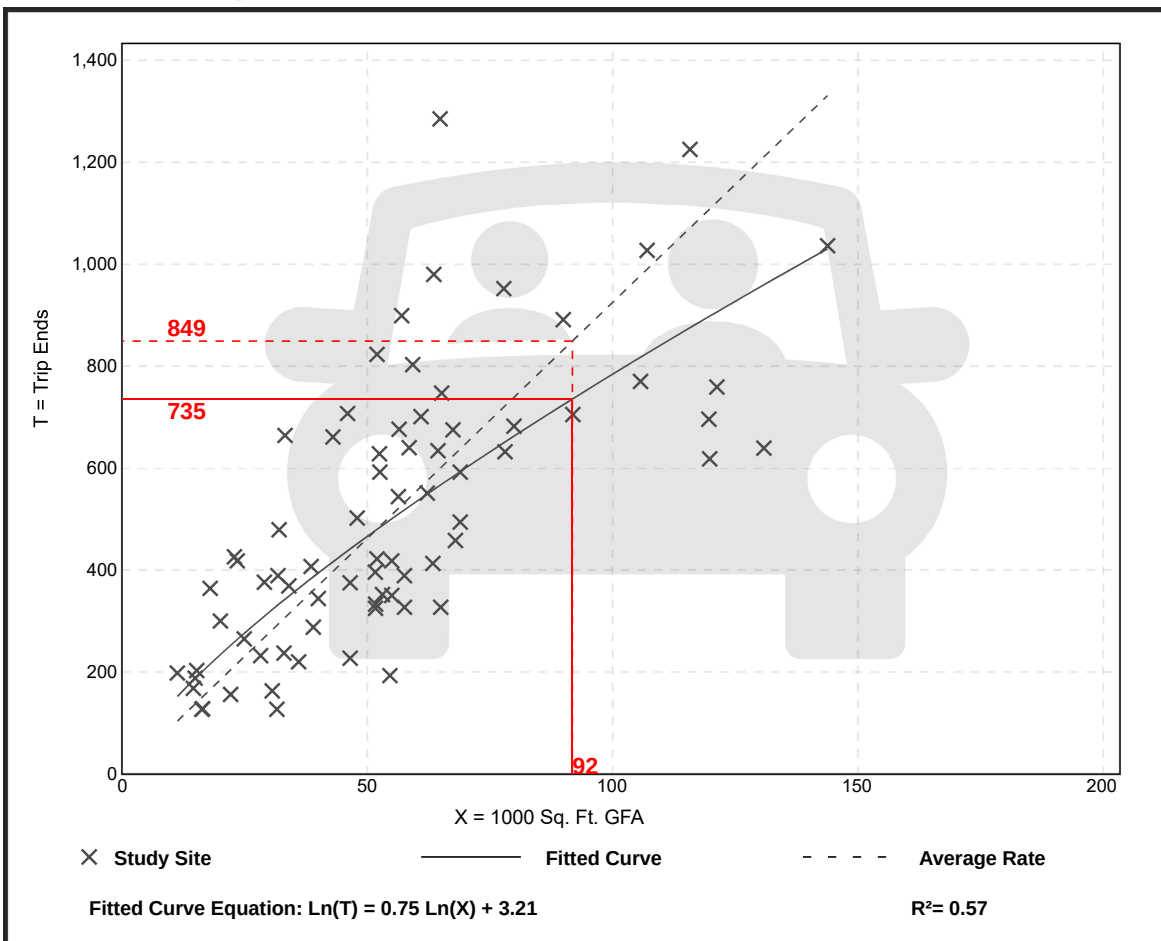
Supermarket (850)

Vehicle Trip Ends vs: 1000 Sq. Ft. GFA
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 73
 Avg. 1000 Sq. Ft. GFA: 55
 Directional Distribution: 51% entering, 49% exiting

Vehicle Trip Generation per 1000 Sq. Ft. GFA

Average Rate	Range of Rates	Standard Deviation
9.24	3.53 - 20.30	3.69

Data Plot and Equation



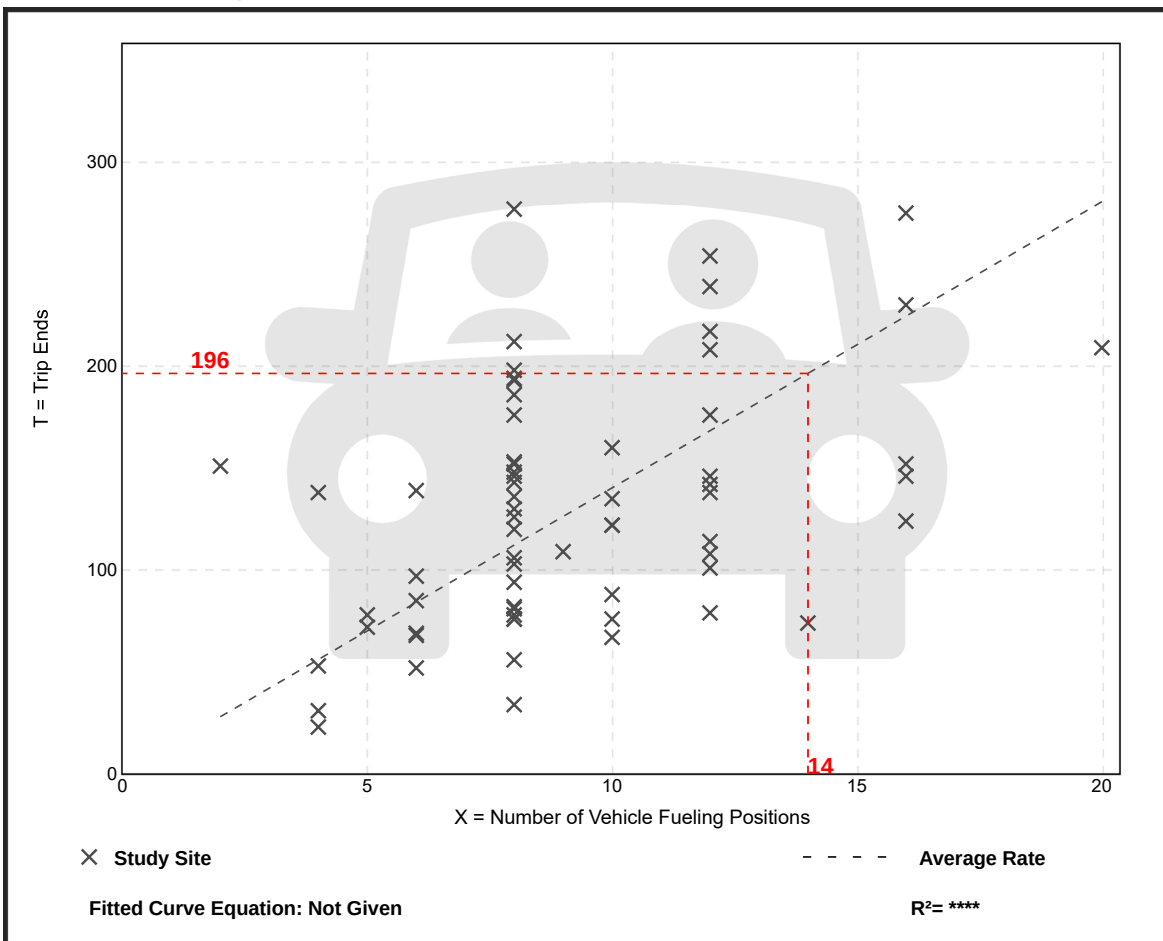
Gasoline/Service Station (944)

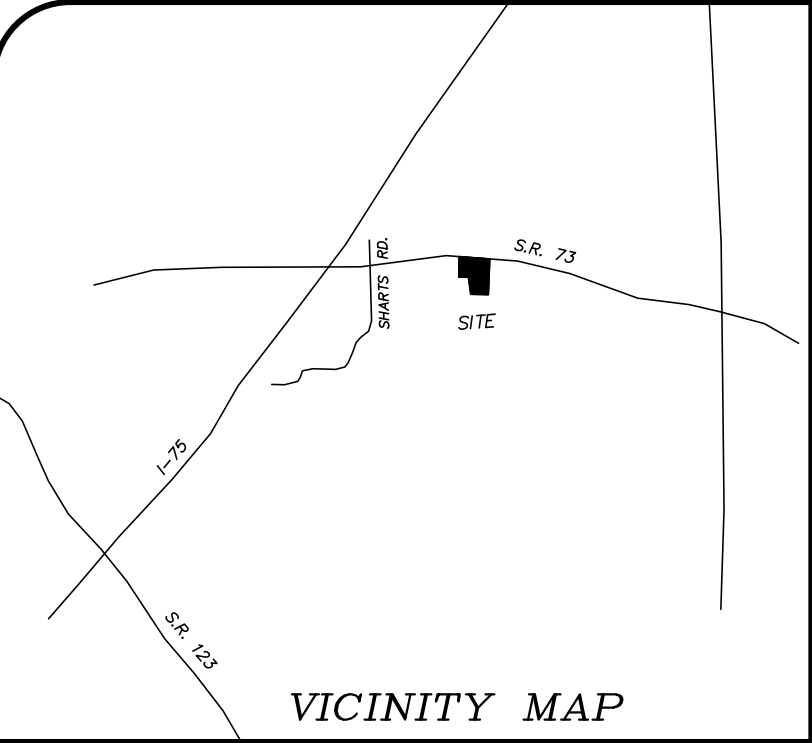
Vehicle Trip Ends vs: Vehicle Fueling Positions
 On a: Weekday,
 Peak Hour of Adjacent Street Traffic,
 One Hour Between 4 and 6 p.m.
 Setting/Location: General Urban/Suburban
 Number of Studies: 66
 Avg. Num. of Vehicle Fueling Positions: 9
 Directional Distribution: 50% entering, 50% exiting

Vehicle Trip Generation per Vehicle Fueling Position

Average Rate	Range of Rates	Standard Deviation
14.03	4.25 - 75.50	6.96

Data Plot and Equation





REFERENCE SURVEYS & DATA:

- SURVEY BY THOMAS GRAHAM ASSOCIATES, INC.
DATED 7/21/93 VOL. 87, PLAT NO. 26
- SURVEY BY THOMAS GRAHAM ASSOCIATES, INC.
DATED 6/1/93 S.R. 86, P. 84
- SURVEY BY THOMAS GRAHAM ASSOCIATES, INC.
DATED 5/14/91 S.R. 79, P. 79
- SPRINGBORO BUSINESS PARK SECTION THREE
P.B. 16, PAGES 29 & 30
- SURVEYS BY CDS ASSOCIATES, INC.:
1. DATED 11/24/86 S.R. 63, P. 32
 2. DATED 10/20/86 S.R. 63, P. 10
 3. DATED 9/18/86 S.R. 62, P. 91
 4. DATED 8/25/82 S.R. 52, P. 3

- SURVEYS BY DUANE, DALEY AND ASSOCIATES, INC.:
1. DATED 10/3/89 S.R. 75, P. 51
 2. DATED 5/10/88 S.R. 77, P. 67
 3. DATED 2/4/86 S.R. 63, P. 55

- SURVEY BY TRI-CITY ENGINEERING CO.
DATED 8/24/90 S.R. 77, P. 24

- O.D.O.T. HIGHWAY PLANS
WAR-73-(4.26-5.84)

RIGHT OF WAY DEDICATION PLAT

CENTRAL AVE./ STATE ROUTE 73

THE KROGER CO.

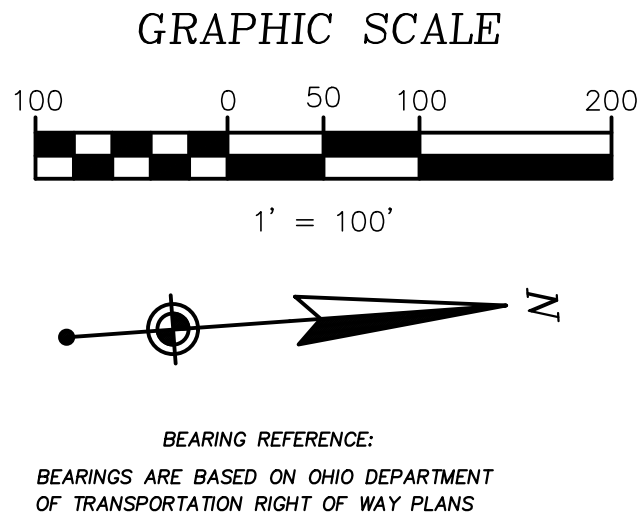
SECTION 20, TOWN 2, RANGE 5 BTM

CITY OF SPRINGBORO, CLEARCREEK TOWNSHIP

WARREN COUNTY, OHIO

LEGEND

- R/W
- INDICATES RIGHT OF WAY
- INDICATES RIGHT OF WAY
AREA TO BE DEDICATED
TOTAL AREA = 1.167 ACRES



tga

THOMAS
GRAHAM
ASSOCIATES, INC.

- Engineers
- Surveyors

803 Compton Road
Cincinnati, Ohio 45231
513-521-4760
Fax # 521-2439

Date: SEPT. 10, 2020

Scale: 1" = 100'

Job No: 6079

Revisions

No. Date

DEED REFERENCES:

SITUATED IN SECTION 20, TOWN 2, RANGE 5, CITY OF SPRINGBORO, CLEARCREEK TOWNSHIP, WARREN COUNTY, OHIO, CONTAINING 1.167 ACRES AND BEING PART OF A 14.948 ACRE TRACT AS CONVEYED TO THE KROGER CO. AND DESCRIBED IN D.N. 2019-027579 AND PART OF AN EASEMENT FOR HIGHWAY PURPOSES DESCRIBED IN D.B. 400, PAGE 622 OF THE WARREN COUNTY RECORDER'S OFFICE.

DEDICATION:

WE THE UNDERSIGNED, BEING THE OWNER OF THE LAND HEREON PLATTED, DO HEREBY ADOPT AND CONFIRM THIS DEDICATION PLAT AND DEDICATE THE STREETS AND EASEMENTS SHOWN HEREON TO THE PUBLIC USE FOREVER.

OWNER: THE KROGER CO.

BY: _____
NAME: _____
TITLE: _____

STATE OF _____ S.S.

COUNTY OF _____

BEFORE ME A NOTARY PUBLIC IN AND FOR SAID COUNTY, PERSONALLY APPEARED _____ OF THE KROGER CO., AN OHIO CORPORATION, WHO REPRESENT THAT THEY ARE DULY AUTHORIZED IN THE PREMISES AND ACKNOWLEDGE THAT THEY DID SIGN THE FOREGOING INSTRUMENT AND THAT THE SAME IS THEIR VOLUNTARY ACT AND DEED. IN TESTIMONY WHEREOF, I HAVE HEREUNTO SET MY HAND AND OFFICIAL SEAL THIS ____ DAY OF _____, 2020

NOTARY PUBLIC

MY COMMISSION EXPIRES _____

APPROVALS

CITY OF SPRINGBORO

APPROVED BY THE COUNCIL OF THE MUNICIPALITY OF SPRINGBORO
THIS ____ DAY OF _____, 2020.

ATTESTED:

CLERK OF COUNCIL

MAYOR

CITY ENGINEER

COUNTY AUDITOR

TRANSFER NOT NECESSARY
REVIEWED ON THIS ____ DAY OF _____, 2020

DEPUTY

WARREN COUNTY AUDITOR

COUNTY RECORDER

FILE NO. _____
RECEIVED ON THIS ____ DAY OF _____, 2020, AT _____
RECORDED ON THIS ____ DAY OF _____, 2020, AT _____
RECORDED IN PLAT BOOK NO. _____ ON PAGE NO. _____
FEE: _____

DEPUTY

WARREN COUNTY RECORDER

SURVEYORS CERTIFICATION

I HEREBY CERTIFY THAT THIS MAP IS A TRUE AND COMPLETE SURVEY MADE UNDER MY SUPERVISION, AND THAT ALL MONUMENTS ARE SET AS SHOWN.

ROBERT W. TRENKAMP
REGISTERED SURVEYOR #6452 IN OHIO

DATE

RIGHT OF WAY DEDICATION PLAT

SEC. 20, T. 2E, R. 5N
CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO
WARREN COUNTY, OHIO



Sheet

1 of 1

Job No: 6079-20

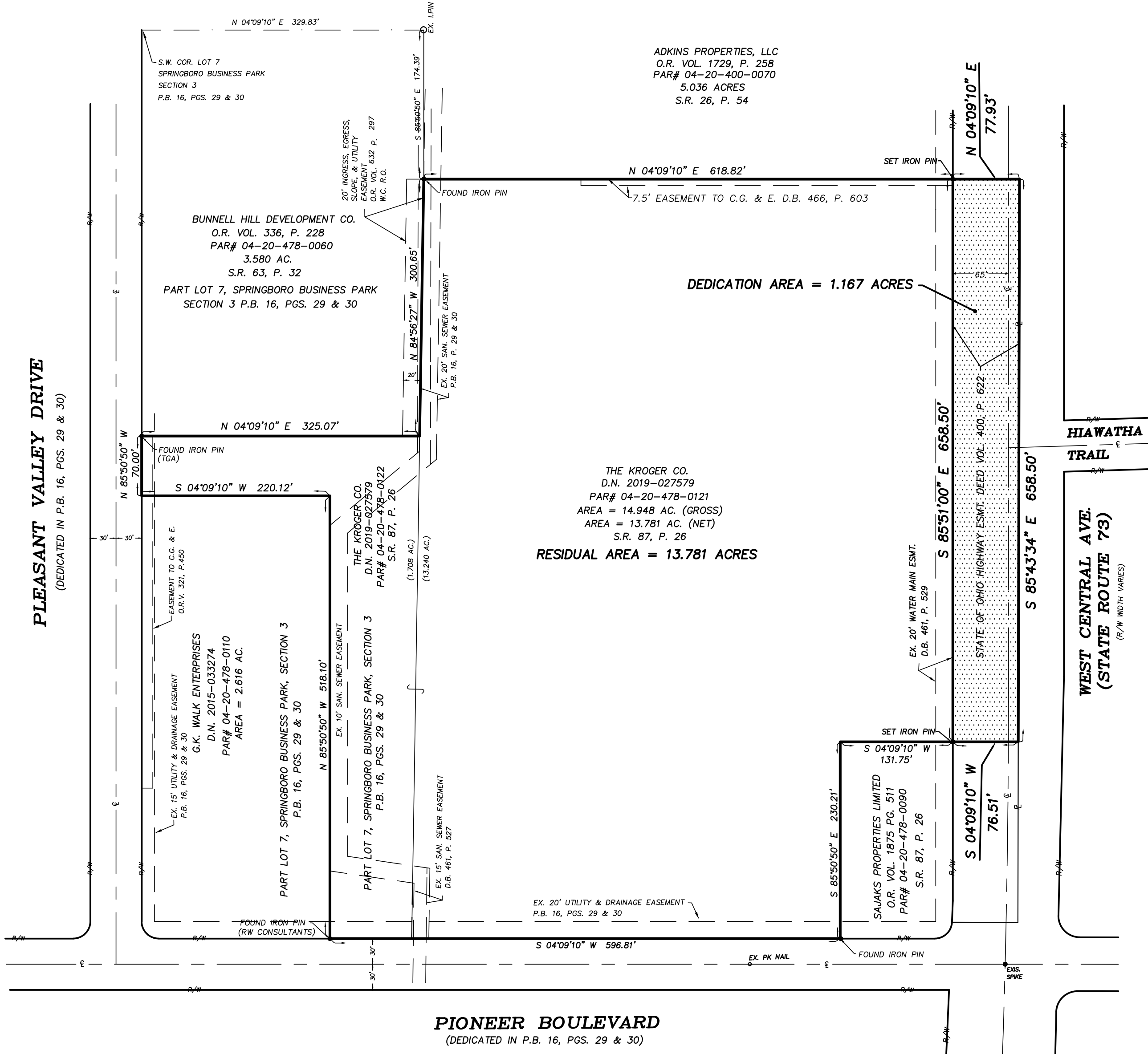
ACAD FILENAME: 6079_DEDICATION.DWG

CLOSURE

Course	Bearing	Distance	PT#	Northing	Easting
1-2	N 04°09'10" E	77.93	2	4982.30	4117.36
2-3	S 85°43'34" E	658.50	3	5010.95	4779.67
3-4	S 04°09'10" W	76.51	4	4934.64	4774.13
4-5	N 85°51'00" W	658.50	5	4982.30	4117.36
Closure error distance > 0.004 Error Bearing > S 25°02'23" W					
Closure Precision > 1 in 356788.6 Total Distance Traversed > 1471.44					
50850.5 Sq. Feet					
1.167 Acres					

NOTES

1. PRIOR DEED REFERENCE: O.R. BOOK 5312 PAGE 62
O.R. BOOK 5130 PAGE 194
WARREN COUNTY, OHIO RECORDS
2. MONUMENTATION SET AS SHOWN
3. ALL MONUMENTATION IS IN GOOD CONDITION UNLESS OTHERWISE SHOWN.
NOTE: ALL SET IRON PINS ARE 5/8" DIA. IRON RE-BAR SET FLUSH TO THE GROUND WITH A "TGA" CAP
4. LINES OF OCCUPATION, WHEREVER THEY EXIST, GENERALLY AGREE WITH BOUNDARY LINES EXCEPT AS SHOWN.
5. ALL DOCUMENTS USED AS SHOWN.
6. THE ORIGINAL CENTERLINE OF WEST CENTRAL AVE. DIFFERS FROM THE CURRENT CENTERLINE AS ESTABLISHED BY WAR-73-(4.26-5.84) AND THE RECORDED DOCUMENTS NOTED HEREON.



Kroger Fuel Center

2019 Catalog
Merchandising Program
by AMD Industries

For:

Kroger – Atlanta

Kroger – Central

Kroger – Cincinnati

Kroger – Columbus

Kroger – Delta

Food 4 Less – Midwest

Kroger – Michigan

Kroger – Mid Atlantic

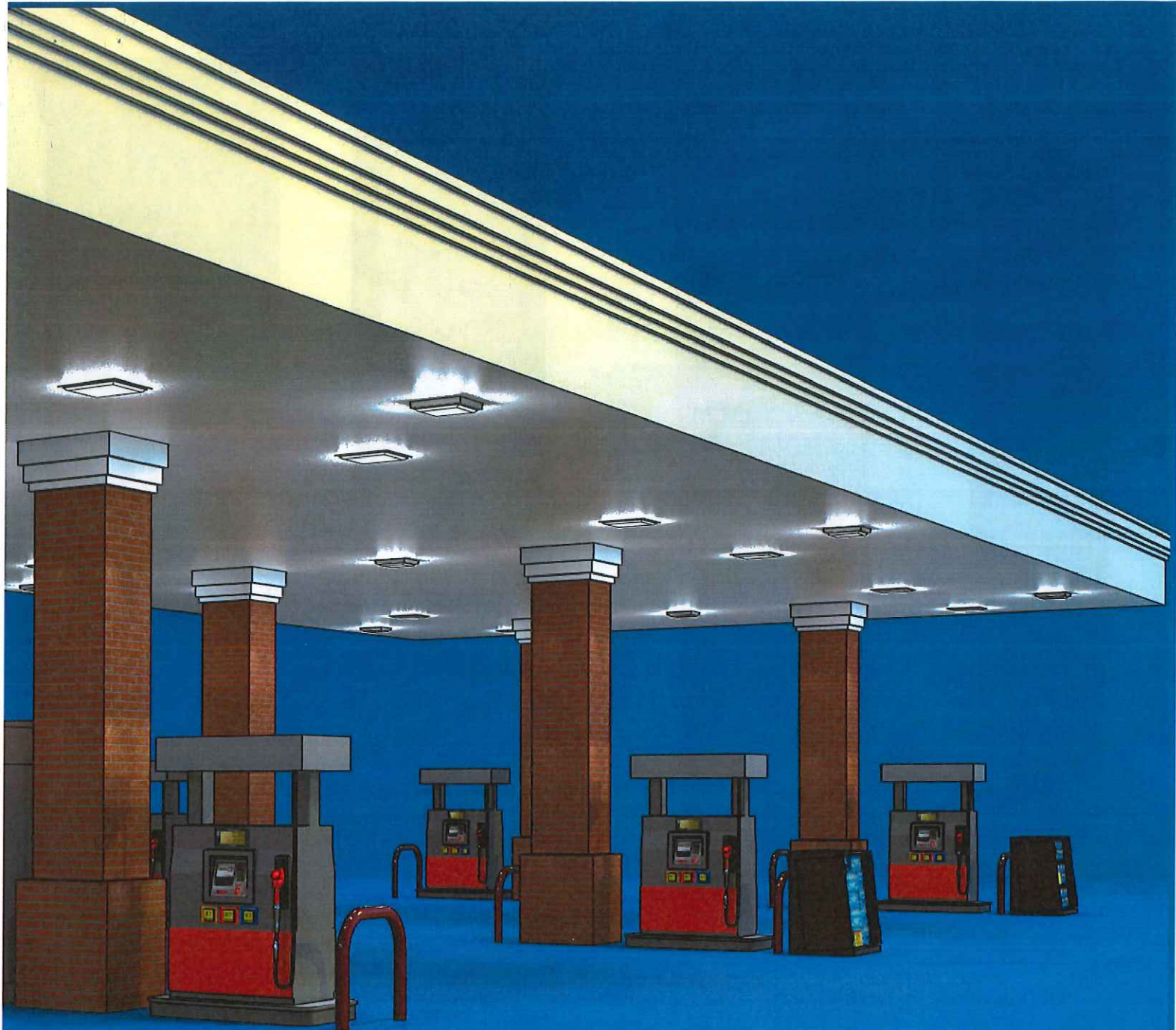
Kroger – Mid South (Louisville)

Kroger – Nashville

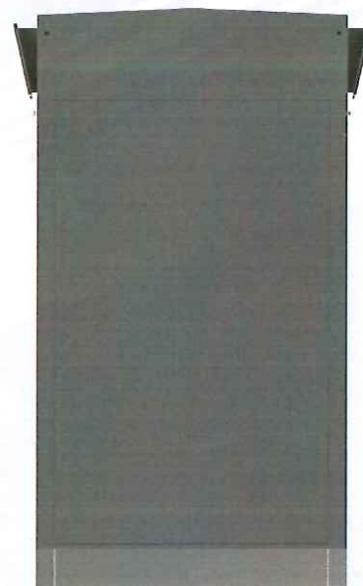
Roundy's







REACH-IN MERCHANDISER.....	2
SECURITY SHROUD for TRUE GDM 33.....	3
SECURITY SHROUD FOR HABCO COOLER.....	4
SPILL CABINET.....	5
SHELF CABINETS.....	6
FIREWOOD CAGE.....	7



REACH-IN MERCHANDISER

97"H x 43"W x 51"D

- Accessible from both sides
- Grey outdoor powdercoat finish
- Rust preventive undercoating
- Stainless steel kick panel, hardware, bottom tray and levelers
- Roll-down security door
- Commercial quality glass doors
- Built in pallet truck adapter for easy installation
- Inside grid is 73"H x 39"W
- Shelves are 40"W x 16.5"D
- Comes with shelves, hooks and shelf liners

E PRO NUMBERS	DESCRIPTION	COST
K-0062775	Single RIM with (12) Hooks, (12) Shelves and (6) shelf liners	
K-0067153	Set of Two RIM Units, Each with (12) Hooks, (12) Shelves and (6) shelf liners	
K-0067154	Set of Three RIM Units, Each with (12) Hooks, (12) Shelves and (6) shelf liners	
K-0067156	Set of (12) Hooks Only	
K-0067155	Set of (2) Wire Basket Shelves with Liners	





SECURITY SHROUD FOR TRUE GDM 33

98" H x 50" W x 41" D

- Grey outdoor powdercoat finish
- Rust preventive undercoating
- Stainless steel kick panel and front grill
- Stainless steel hardware and levelers
- Rolldown security door
- Front grill removable for servicing

E PRO NUMBERS

DESCRIPTION

COST

K-0067158

Large Cooler Shroud - True

K-0067159

Optional Side Header





SECURITY SHROUD FOR HABCO COOLER

98"H x 58"W x 40"D

- Grey outdoor powdercoat finish
- Rust preventive undercoating
- Stainless steel kick panel and front grill
- Stainless steel hardware and levelers
- Roll-down security door
- Front grill removable for servicing

E PRO NUMBERS

DESCRIPTION

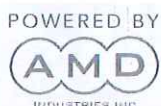
COST

K-0067157

Large Cooler Shroud

K-0067159

Optional side header

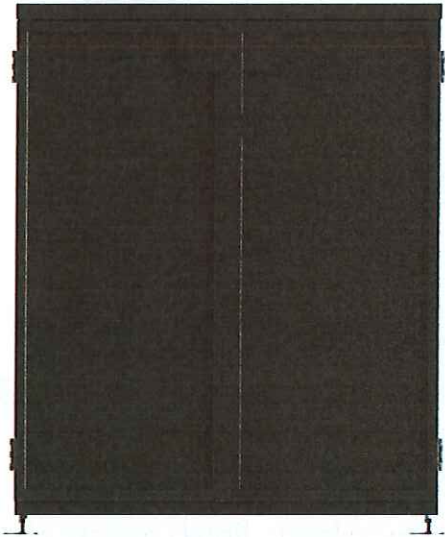




SPILL CABINET

69"H x 55"W x 41"D

- Heavy duty steel construction
- Black outdoor powder coating finish
- Thermoplastic finish resists chipping, denting and scraping
- Rust preventive undercoating
- Assembled with all stainless steel hinges and hardware
- Stainless steel levelers



E PRO NUMBERS

K-0067152

DESCRIPTION

Spill Cabinet

COST





SHELF CABINETS

45"H x 42"W x 28"D

- Heavy duty steel construction
- Black outdoor powder coating finish
- Rust preventive undercoating
- Stainless steel base
- Thermoplastic finish resists chipping, denting and scraping
- Assembled with all stainless steel hinges and hardware

E PRO NUMBERS

DESCRIPTION

COST

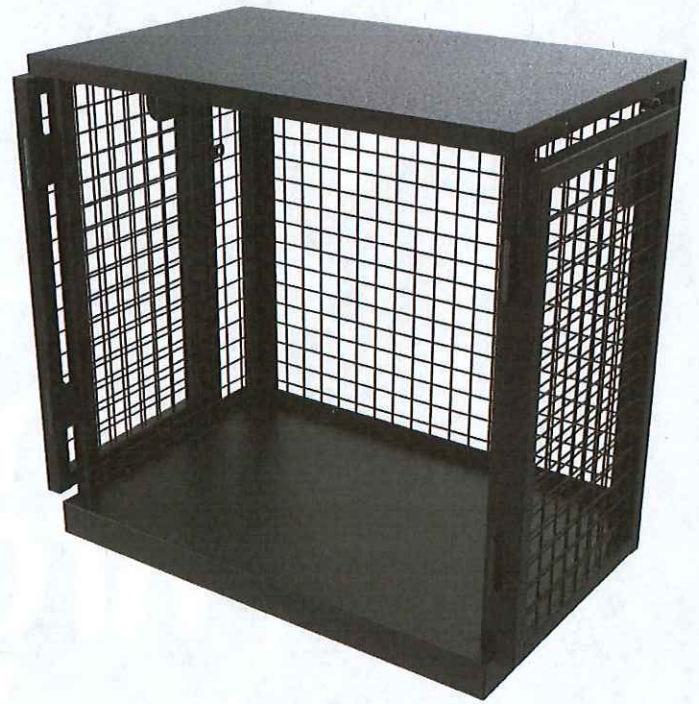
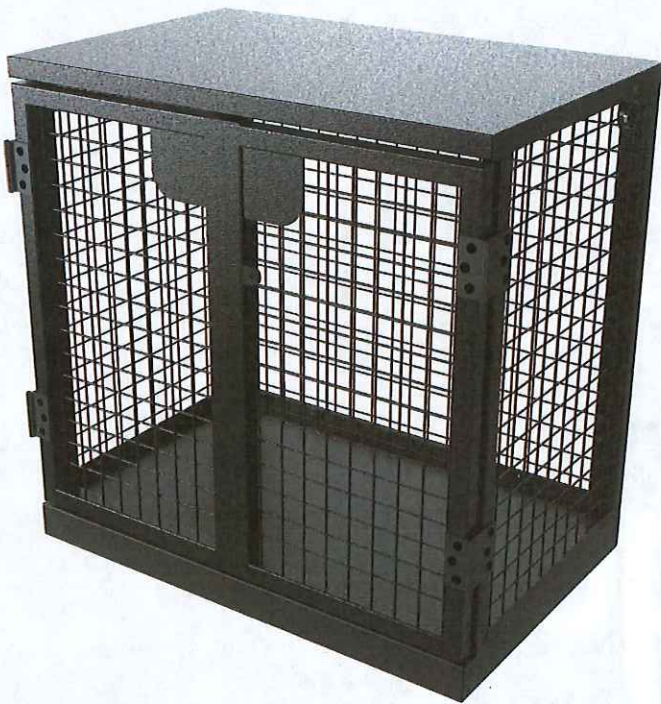
K-0067150

Shelf Cabinet with no shelves

K-0067149

Shelf Cabinet with two shelves





FIREWOOD CAGE

41"H x 42"W x 27"D

- Heavy duty steel construction
- Black outdoor powder coating finish
- Thermoplastic finish resists chipping, denting and scraping
- Rust preventive undercoating
- Stainless steel base
- Assembled with all stainless steel hinges and hardware

E PRO NUMBERS

K-0067160

DESCRIPTION

Firewood Cage

COST





POWERED BY



INDUSTRIES INC.

4620 W. 19th St.
Cicero, IL 60804
708-863.8900

Sales Rep: Gregg Pospisil | pospisilg@amdpop.com
Customer Service: Melitta Billeck | billeckm@amdpop.com
847-533-8823

Case

08/26/2020
(Date)

LOTS #31, 32 AND 33
OF
GREENLEAF VILLAGE
SECTION ONE
PLAT BOOK 20, PAGE 75 WCRO

SECTION 8, TOWN 2, RANGE 5 M.R.S.
CITY OF SPRINGBORO
WARREN COUNTY, OHIO

UNLESS OTHERWISE DESIGNATED ON THIS PLAT, A FIFTEEN (15 FOOT) WIDE DRAINAGE EASEMENT SHALL EXIST ALONG ALL COMMON REAR LOT LINES AND A TEN (10 FOOT) WIDE DRAINAGE EASEMENT SHALL EXIST ALONG ALL COMMON SIDE LOT LINES, WITH THE COMMON LINE BEING THE CENTERLINE OF SAID EASEMENT.

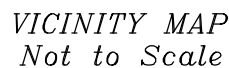
THE EASEMENT AREAS SHALL BE MAINTAINED CONTINUOUSLY BY THE LOT OWNER(S). WITHIN THE EASEMENTS, NO STRUCTURE, PLANTING, FENCING, CULVERT, OR OTHER MATERIAL SHALL BE PLACED OR PERMITTED TO REMAIN WHICH MAY OBSTRUCT, RETARD, OR DIVERGE THROUGH THE WATERCOURSE.

THE ARDEN COUNTY COMMISSIONERS, THE BOARD OF TOWNSHIP TRUSTEES ASSUME NO LEGAL OBLIGATION TO MAINTAIN OR REPAIR ANY OPEN DRAIN, DITCHES OR WATERCOURSE WITHIN THE EASEMENT AREA UNLESS NOTED OTHERWISE ON THIS PLAT.

HOWEVER, WHEN THE PLATTED RIGHT-OF-WAY AREA HAS BEEN PREVIOUSLY ACCEPTED FOR PUBLIC MAINTENANCE BY RESOLUTION OF THE BOARD OF TOWNSHIP TRUSTEES, THE BOARD OF TRUSTEES OR THEIR REPRESENTATIVES MAY ENTER UPON AND INSPECT THE EASEMENT AREAS AND IN ACCORDANCE WITH SECTION 5589.06 OF THE OHIO REVISED CODE, MAY REMOVE OR CAUSE THE REMOVAL OF AN OBSTRUCTION ADVERSELY IMPACTING AN AREA WITHIN THE PUBLIC RIGHT-OF-WAY.

THE PUBLICLY-MAINTAINED PORTION OF THE STORM SEWER SYSTEM WILL INCLUDE STORM DRAINS, CULVERTS, AND/OR DITCHES LOCATED WITHIN EITHER THE PUBLIC RIGHT-OF-WAY OR THE PUBLIC UTILITY EASEMENT AREA ADJACENT TO THE ROAD RIGHT-OF-WAY. THE EASEMENT AREAS ARE NOT TO BE USED FOR PRIVATE DRIVEWAYS, DITCHES, OR OPEN DITCHES.

THE DEVELOPER, BUILDER OR LOT OWNER INSTALLS A STORM DRAIN ON PRIVATE PROPERTY. THE STORM DRAIN SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER TO ENSURE THAT NEITHER THIS PROPERTY OR ADJACENT PROPERTIES ARE NEGATIVELY IMPACTED, AND THE LOT OWNER(S) MUST NOTE THAT THEY ARE RESPONSIBLE FOR MAINTAINING THE STORM DRAIN UNLESS NOTED OTHERWISE ON THE PLAT.



WE, THE UNDERSIGNED, BEING ALL F THE OWNERS OF THE LAND HEREIN PLATTED, DO VOLUNTARILY CONSENT TO THE EXECUTION OF SAID PLAT AND DEDICATION OF THE STREET RIGHT-OF-WAY AS SHOWN HEREON TO PUBLIC USE FOREVER, ANY "PUBLIC UTILITY EASEMENTS" AS SHOWN ON THIS PLAT ARE FOR THE PLACEMENT OF PUBLIC UTILITIES, SIDEWALKS, AND TRAILS AND FOR THE MAINTENANCE AND REPAIR OF SAID UTILITIES, SIDEWALKS, AND TRAILS. THIS EASEMENT AND ALL OTHER EASEMENTS SHOWN ON THIS PLAT UNLESS DESIGNATED FOR A SPECIFIC PURPOSE, SUCH AS CONSTRUCTION OF A MAINTENANCE TRAIL, REPAIR CEMENT DRIVEWAYS, REPAIR CEMENT DRIVEWAYS, GAS, ELECTRIC, TELEPHONE, CABLE TELEVISION OR OTHER UTILITIES/INES OR SERVICES, SIDEWALKS, TRAILS, STORMWATER DISPOSAL AND FOR THE EXPRESS PRIVILEGE OF CUTTING, TRIMMING OR REMOVING ANY AND ALL TREES OR OTHER OBSTRUCTIONS WITHIN SAID EASEMENTS, OR IMMEDIATELY ADJACENT THERETO, TO THE FREE USE OF SAID EASEMENTS OR ADJACENT STREETS AND FOR PROVIDING INGRESS AND EGRESS TO THE PROPERTY FOR SAID PURPOSES AND ARE TO BE MAINTAINED AS SUCH FOREVER, NO BUILDING OR OTHER STRUCTURES MAY BE PLACED WITHIN ANY OF THE EASEMENTS. NO WAY THIS EASEMENT AREA BE PHYSICALLY ALTERED SO AS TO REDUCE CLEARANCES, OF EITHER OVERHEAD OR UNDERGROUND FACILITIES; (2) IMPAIR THE LAND SURFACE OF SAID FACILITIES; (3) IMPAIR ABILITY TO MAINTAIN THE FACILITIES OR (4) CREATE A HAZARD.

A circular seal for a Professional Surveyor in the State of Ohio. The outer ring contains the text "STATE OF OHIO" at the top and "PROFESSIONAL SURVEYOR" at the bottom, separated by two stars. The inner circle contains the name "JAY S. OLBERDING" and the registration number "S-7188" below it. The word "REGISTERED" is written in a smaller arc below the name.

[illegible]

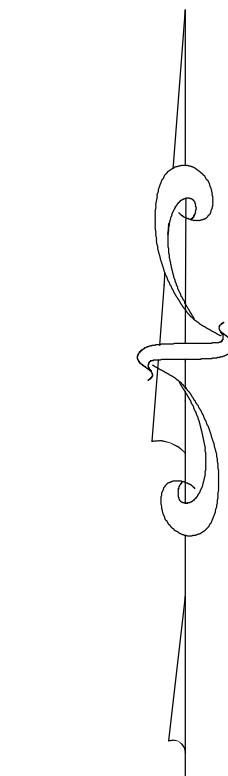
RE-PLAT
OF
LOTS#31, 32 AND 33
OF
GREENLEAF VILLAGE
SECTION ONE

	LANDALE SURVEYING, INC 1008 MAIN STREET - (ST. RT. 28) MILFORD OHIO. 45150 PHONE (513) 831-9970	
	DATE: <i>AUG. 2020</i>	DRAWN BY: <i>JSD</i>
DRAWING NUMBER 20-108		SCALE: <i>1"=20'</i> SHEET <i>1</i> OF <i>2</i>

NOTE: BASIS OF BEARINGS IS THE RECORD PLAT FOR GREENLEAF VILLAGE, SECTION ONE.

GEIDNER-KELLY SUBDIVISION
THE RE-PLAT
OF
LOTS #31, 32 AND 33
OF
GREENLEAF VILLAGE
SECTION ONE
PLAT BOOK 20, PAGE 75 WCRO

SECTION 8, TOWN 2, RANGE 5 M.R.S.
CITY OF SPRINGBORO
WARREN COUNTY, OHIO



ROBERT J. & PAMELA HERMAN
O.R. VOL. 2027, PAGE 862
PARCEL I.D.#04-08-276-038
0.1771 ACRES

W. FAYE GEIDNER
O.R. VOL. 2027, PAGE 868
PARCEL I.D.#04-08-276-040
0.1288 ACRES

DAVID & KAREN HALL
O.R. VOL. 2027, PAGE 886
PARCEL I.D.#04-08-276-046
0.0309 ACRES

LOT #30
DR. DAVID C. & KAREN S. HALL
O.R. VOL. 562, PAGE 597
PARCEL I.D.#04-08-276-018

LOT #29
JAMES R. & MARGARET R. BROOKS
O.R. VOL. 2164, PAGE 272
PARCEL I.D.#04-08-276-017

CLEARCREEK TOWNSHIP
CITY OF SPRINGBORO

LOT #28
HARRY S. & KATHERINE S. ALEXANDER
O.R. VOL. 2830, PAGE 731
PARCEL I.D. #04-08-276-016

LOT #27
CAROL L. BRENNAN
O.R. VOL. 1318, PAGE 896
PARCEL I.D.#04-08-276-015

N. 576,337.965
E.1,485,398.169

LOT #31
CHARLES F. & WANDA FAYE GEIDNER
O.R. VOL. 4865, PAGE 912
PARCEL I.D.#04-08-276-019

LOT #1
0.2726 ACRES
11876.6 SQ.FT.

LOT #36
PAMELA HERMAN
D.N.2020-006035
PARCEL I.D.#04-08-276-025

REFERENCE DOCUMENTS USED:
RECORD PLAT FOR GREENLEAF VILLAGE
SECTION ONE, PLAT BOOK 20, PAGE 75.
SURVEY BY REINKE AND ASSOCIATES, INC.
WARREN COUNTY RECORD OF LAND SURVEYS
VOLUME 111, PLAT No. 63.

NOTE: NO LINES OF OCCUPATION FOUND.
NOTE: ALL MONUMENTS IN GOOD CONDITION.
NOTE: GREENLEAF VILLAGE, SECTION ONE, WAS
THE PERTINENT DOCUMENT USED AS A
BASIS FOR THIS PLAT.

LOT #32
CHARLES F. GEIDNER
O.R. VOL. 1350, PAGE 428
PARCEL I.D.#04-08-276-020

LOT #35
PAMELA HERMAN
O.R. VOL. 1350, PAGE 426
PARCEL I.D.#04-08-276-024

LOT #34
ANGELA L. & ADRIAN B. DAVIS
D.N.2020-027404
PARCEL I.D.#04-08-276-023

LOT #33
LANA J. LAVIELLE KELLY
O.R. VOL. 5727, PAGE 348
PARCEL I.D.#04-08-276-021

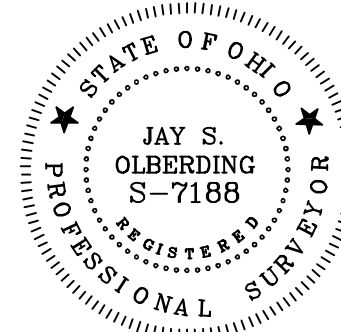
LOT #2
0.2904 ACRES
12651.4 SQ.FT.

LOT #1
GREENLEAF VILLAGE HOMES ASSOCIATION
RESERVE "C"
PARCEL I.D.#04-08-276-022
O.R. VOL. 1656, PAGE 856
0.260 ACRES

COUNTRY CLUB LANE
(50' R/W)

IRISH HILLS
(40' R/W)

SECTION 2, TOWN 2, R-5 MRS
SECTION 8, TOWN 2, R-5 MRS



SURVEYOR'S CERTIFICATION
I hereby certify that this plat represents a true and
complete survey made under my supervision and all
monuments have been set or found as shown.

JAY S. OLBERDING P.S.
OHIO REGISTERED SURVEYOR #S-7188

DATE:	BY:	REASON:

RE-PLAT
OF
LOTS #31, 32 AND 33
OF
GREENLEAF VILLAGE
SECTION ONE

LANSDALE SURVEYING, INC.
1008 MAIN STREET - (ST. RT. 28)
MILFORD, OHIO 45150 PHONE (513) 831-9970

DATE: AUG. 2020
DRAWN BY: JSO

DRAWING NUMBER
20-108

SCALE: 1"=20'
SHEET 2 OF 2