Petition PC 25 - 003
Date: 12/23/2024
Application Fee: $ 3480.00
Sign Fee: $ 25.00

Town of Munster Plan Commission Petition Application

OWNER INFORMATION:

Community Foundation of NWI, Inc. — Name of Owner
(219)689-7310 — Phone Number
905 Ridge Road, Munster, IN 46321 — Street address, City, ST, ZIP Code
dotte@powershealth.org — Email address

APPLICANT OR PETITIONER INFORMATION (if different than above):

Dave Otte (CFNI, Inc.) — Name of Applicant/Petitioner
(219)689-7310 — Phone Number
905 Ridge Road, Munster, IN 46321 — Street address, City, ST, ZIP Code
dotte@powershealth.org — Email address

PROPERTY INFORMATION:

Business or Development Name (if applicable)
45-07-30-102-004.000-027, 45-07-30-103-001.000-027 & 45-07-30-151-001.000-027 — Address of Property or Legal Description
800 MacArthur Blvd, 9101 Calumet Ave & 901 Franklin Pkwy
Current Zoning

APPLICATION INFORMATION:

Please select what this Application is for:

☐ **Subdivision** If yes, select one of the following: ☐ **Preliminary Plat** ☐ **Final Plat**

☒ **Development Plan Review**

☐ **Rezoning (including Planned Unit Development) – Proposed Zoning District**

Brief Description of Project:

New 4-story MOB Building, 800 MacArthur Boulevard, Munster IN

Torrenga Engineering, Inc — Name of Registered Engineer, Architect or Land Surveyor
(219)836-8918 — Phone Number
907 Ridge Road, Munster, IN 46321 — Street address, City, ST, ZIP Code
donald.torrenga@torrenga.com — Email address

Petition PC 25 - 003

Town of Munster Plan Commission Application Signature Page

I hereby authorize Torrenga Engineering to act on my behalf as my agent in this petition and to furnish, upon request, supplemental information in support of this petition application.

X David J Otte
Signature of Owner

12/21/2024
Date

X David J Otte
Signature of Applicant

12/21/2024
Date

TOWN OF MUNSTER – POWERS HEALTH_800 MacArthur – MOB Project Fees:

1. Commercial Subdivision- Preliminary Plat 1-5 Lots: **$2530.00**

Contact: Stuart Allen /Torrenga

Hearings required:

- Preliminary Hearing
- Public Hearing: Notice of Public Sign: **$25.00** *
- Town Council Approval

2. Commercial Subdivision- Final Plat: **$775.00**

Contact: Stuart Allen /Torrenga

(Administrative only)

3. Change of Zoning- PUD Amendment- **$805.00**

Contact: Brian Sluiter /Powers Health

Hearings required:

- Preliminary Hearing
- Public Hearing: Notice of Public Sign: **$25.00** *
- Town Council Approval

4. Development Plan Review (MOB)- Complex : **$3480.00**

Don Torrenga /Torrenga

- Public Hearing: Notice of Public Sign: **$25.00** *

$7665.00

Note: This Development Plan is dependent upon and will not be moved forward until the Subdivision and Rezoning/PUD Amendment processes are underway.

0 *
2,530 +
25 +
775 +
805 +
25 +
3,480 +
25 +
7,665 * +

Lake County Surveyor's Office

Parcel Identification Number :	45-07-30-102-004.000-027
Owner :	Community Foundation, Inc.
Site Address :	800 MACARTHUR BLVD MUNSTER IN 46321
Mailing Address :	907 Ridge Rd Munster IN 46321
Tax Code :	027
Tax Description :	Munster
Property Class :	Medical clinic or offices
Acreage :	5.824221
TIF District :	027 Ridge Road/Calumet Avenue
Sec Twp Rng :	30 36N 09W
Deductions :	
SPA :	
Legal Description :	FAIRMEADOW 24TH ADD BL. 1 LOT 1 COMMUNITY MEDICAL & PROFESSIONAL CENTER UNIT 3

Lake County Surveyor's Office Web Map

12/17/2024, 2:22:55 PM

W

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable

Lake County Surveyor's Office

Parcel Identification Number :	45-07-30-151-001.000-027
Owner :	Community Foundation of Northwest Indiana Inc
Site Address :	901 FRAN LIN PKWY MUNSTER IN 46321
Mailing Address :	10010 Donald Powers Dr Ste 201 Munster IN 46321
Tax Code :	027
Tax Description :	Munster
Property Class :	Exempt other property
Acreage :	5.716934
TIF District :	027 Ridge Road/Calumet Avenue
Sec Twp Rng :	30 36N 09W
Deductions :	Charitable
SPA :	
Legal Description :	PT NW1/4 S.30 T.36 R.9 LY'G NW'LY OF COLUMBIA AVE & E'LY OF CALUMET AVE & N'LY OF FRAN-LIN PKWY EX N.140.5FT 5.732AC

Lake County Surveyor's Office Web Map

12/17/2024, 2:23:09 PM

W

Lake County Surveyor's Office

Parcel Identification Number :	45-07-30-103-001.000-027
Owner :	Munster, Medical Research Foundtn
Site Address :	9101 CALUMET AVE MUNSTER IN 46321
Mailing Address :	901 Mac Arthur BLVD Munster IN 46321
Tax Code :	027
Tax Description :	Munster
Property Class :	Exempt Charity
Acreage :	2.17143
TIF District :	027 Ridge Road/Calumet Avenue
Sec Twp Rng :	30 36N 09W
Deductions :	Hospital
SPA :	
Legal Description :	S.140.5FT OF N.1244.41FT OF E.675FT OF W.715FT OF NW1/4 S.30 T.36 R.9 2.177AC

Lake County Surveyor's Office Web Map

12/17/2024, 2:23:03 PM

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This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable

POWERS HEALTH

NEW MEDICAL OFFICE BUILING

800 MACARTHUR

MUNSTER, IN 46321

PROJECT DESCRIPTION / PRELIMINARY CODE REVIEW / 09.20.2024

The building proposed for construction adjacent to the current 800 MacArthur Boulevard building will be a new 4-story Medical Office Building with a total gross area of 85,800 square feet (21,450 square feet per floor) housing clinical practices that will bill under the Powers Health Community Hospital Munster CMS provider number. A drop-off canopy is planned for the west side of the building.

As such, the current intent is to design the building in accordance with both the 2014 Indiana Building Code and the 2012 Life Safety Code. The building will be Construction Type I-A, Business Group B Occupancy serving only outpatients. Given the possibility for 4 or more outpatients incapable of taking action for self-preservation to be on a floor at any one time, it may be necessary to design the applicable floor or floors to comply with Section 422 of the IBC as an Ambulatory Care Facility, which is a subcategory of Business Group B Occupancy. With the anticipated proximity to the existing 800 MacArthur Blvd. building and parking garage, the limitations of Table 602 of the Indiana Building Code for Fire-Resistance Rating Requirements for Exterior Walls Based on Fire Separation Distance will be met as part of the project, unless the conditions surrounding the project are eligible for a variance from the State Division of Fire and Building Services.

The building is being designed with the flexibility to add a fifth and sixth floor. However, the building height will be kept below the code maximum 75' from lowest level of fire fighter vehicle access to the sixth-floor level in order to avoid the design provisions necessary for a high-rise building. Consideration is also being given to a connector from the adjacent parking garage to the new Medical Office Building. This connector would be designed as a pedestrian walkway in accordance with the Indiana Building Code. Given the timeline for project design, and the impending adoption of a new building code, it may be necessary to submit the project in accordance with the design requirements of the 2024 Indiana Building Code.

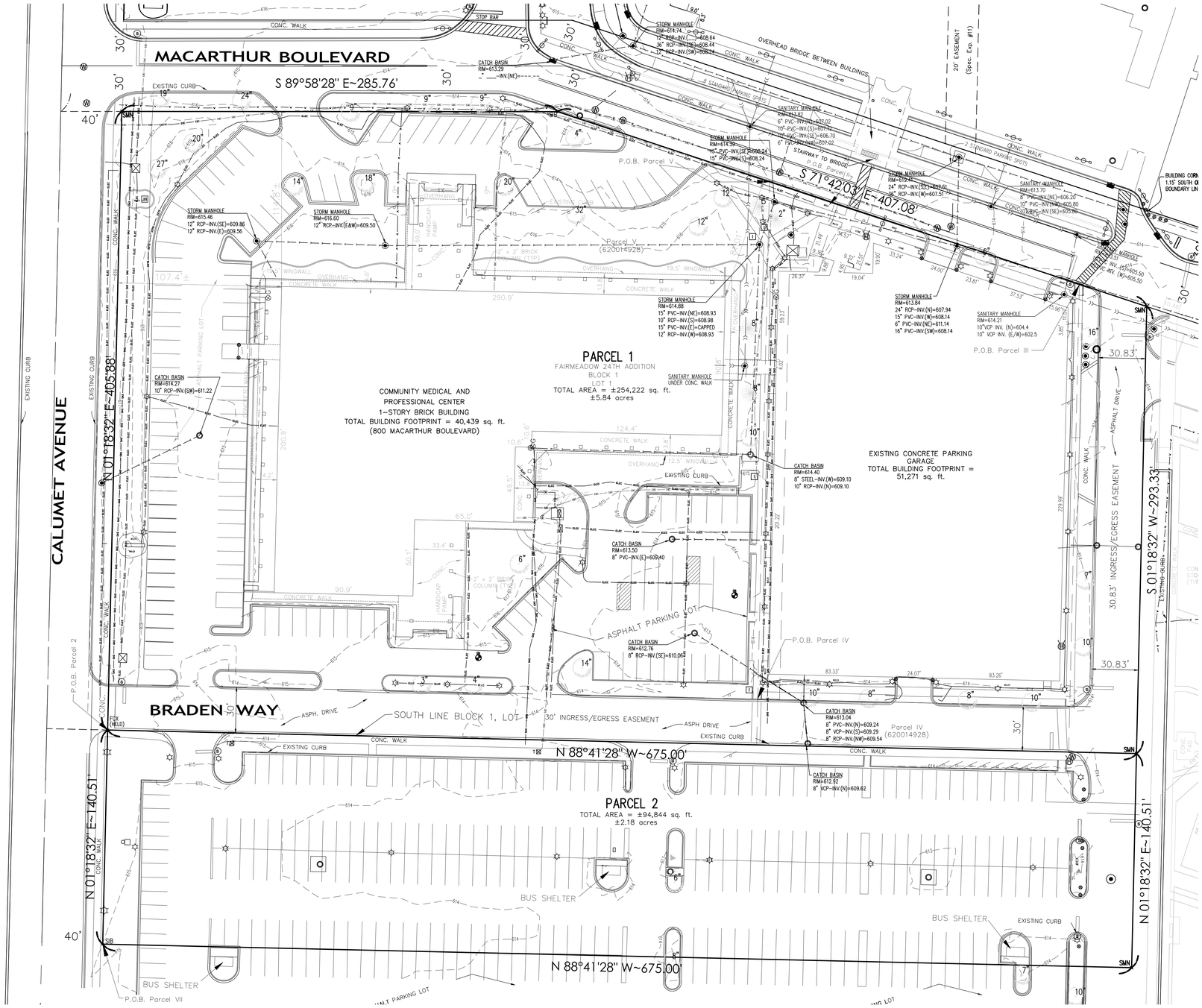
JMA Architects / RTM Consultants, Inc.

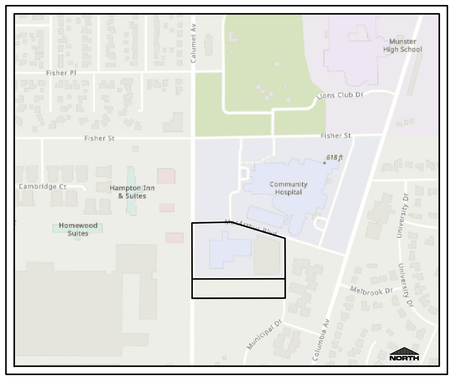
EXISTING TOPOGRAPHY & UTILITIES

SUBJECT PARCEL DESCRIPTIONS

PARCEL 1:
Lot 1, Fairmeadow 24th Addition, Block 1, to the Town of Munster, Lake County, Indiana, as per plat thereof, recorded in Plat Book 43, page 95, in the Office of the Recorder of Lake County, Indiana.

PARCEL 2:
DESCRIPTION: Part of the Northwest Quarter of Section 30, Township 36 North, Range 9 West of the Second Principal Meridian and being more particularly described as follows:
Commencing at the Northwest corner of said Section 30; thence South 01 degrees 18 minutes 32 seconds West, along the West line of said Section 30 (centerline of the 60 foot wide Calumet Avenue right-of-way), a distance of 1103.91 feet (said point also being the Southwest corner of Fairmeadow 24th Addition, Block 1, to the Town of Munster, as shown in Plat Book 43, page 95 in the Office of the Recorder of Lake County, Indiana; thence South 88 degrees 41 minutes 28 seconds East, along the Southerly line of aforesaid Addition, a distance of 40.00 feet to the point of beginning (said point lying on the Easterly right-of-way of aforesaid Calumet Avenue); thence continuing South 88 degrees 41 minutes 28 seconds East, along the Southerly line of aforesaid Addition a distance of 675.00 feet to the Southeast corner of aforesaid Addition; thence South 01 degrees 18 minutes 32 seconds West, along the Westerly line of Lot 1, Fairmeadow 24th Addition, Block 2, to the Town of Munster, as shown in Book 54, page 58 in the Office of the Recorder of Lake County, Indiana, a distance of 140.5 feet; thence North 88 degrees 41 minutes 28 seconds West, a distance of 675.00 feet to the Easterly right-of-way line of Calumet Avenue; thence North 01 degrees 18 minutes 32 seconds East along said Easterly right-of-way line, a distance of 140.5 feet to the point of beginning.





VICINITY MAP
NTS

LEGEND:

- LIGHTING MANHOLE
- MANHOLE
- LIGHT PEDESTAL
- LIGHT POLE
- CATCH BASIN/INLET
- CURB DRAIN
- WATER VALVE
- FIRE HYDRANT
- GAS VALVE
- BEEHIVE CATCH BASIN
- FLAG POLE
- DRAIN
- POWER POLE / ANCHOR
- POWER POLE
- STEEL BOLLARD
- TRAFFIC MANHOLE
- STOP SIGN
- SANITARY SEWER
- STORM SEWER
- WATER LINE
- UNDERGROUND ELECTRIC LINE
- GAS LINE
- SBC LINE
- VENT PIPE
- TELEPHONE PEDESTAL
- FLAG POLE
- ELECTRIC TRANSFORMER
- HANDICAP PARKING SIGN
- SIGN or BILLBOARD
- CLEAN OUT
- END SECTION
- SECURITY CAMERA
- ELECTRIC MANHOLE
- MONITORING WELL
- HIGH TENSION TOWER
- IRRIGATION VALVE
- SIB — SET 5/8" IRON REBAR W/ "ALLEN 29900011" I.D. CAP
- SMN — SET MAG NAIL W/ "ALLEN 29900011" I.D. TAG
- FCX — FOUND CHISELED X

NOTE:
1. THE EXISTING TOPOGRAPHY AS TAKEN FROM THE TOPOGRAPHICAL/ENGINEERING SURVEY BY TORRENGA SURVEYING JOB NO.: 2024-0398, DATED SEPTEMBER 17, 2024.

2. ALL VERTICAL DATUM IS BASED ON NAVD 88.

NORTH
GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
EXISTING CONDITION

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

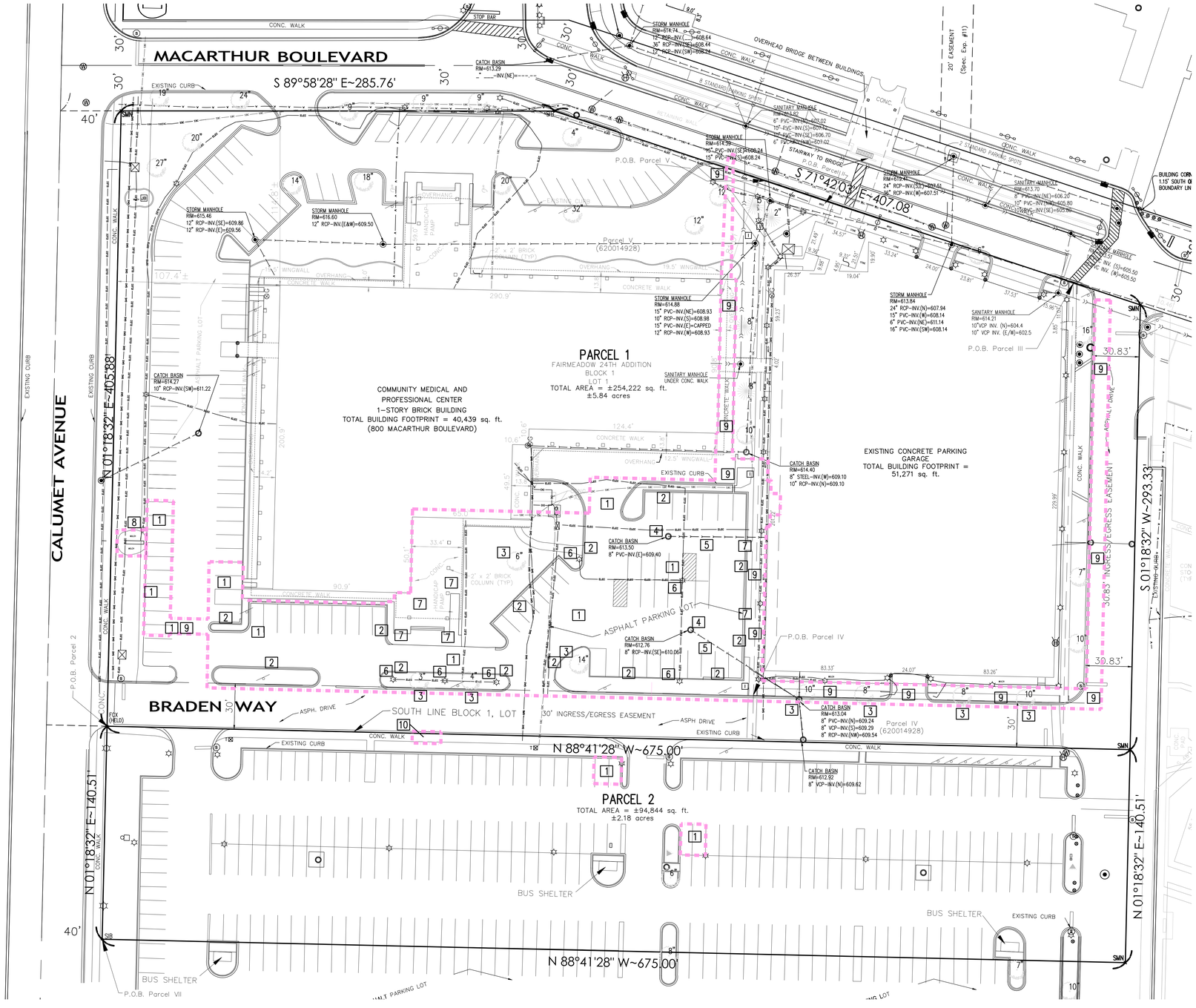
JOB NO: 2024-5042

SCALE: 1" = 30'

SHEET
C-1.0

FILE NO: Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 800 MacArthur.dwg 12/23/2024 10:51:24 AM CST

DEMOLITION PLAN



NOTES:

1. THE CONTRACTOR IS RESPONSIBLE TO VERIFY ALL EXISTING SITE CONDITIONS AND SHALL NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE EXISTING CONDITIONS AND ALL PROPOSED IMPROVEMENTS IN THE CONSTRUCTION DRAWINGS.

DEMOLITION NOTES

1. REMOVE ASPHALT PAVEMENT
2. REMOVE CURB / CURB & GUTTER
3. REMOVE TREE
4. REMOVE STORM MH/CB RE-USE CASTING & STRUCTURE IF POSSIBLE
5. REMOVE STORM SEWER LINE
6. REMOVE LIGHT POLE
7. REMOVE CONCRETE/PAD/WALK/STAIRS
8. REMOVE SIGNAGE
9. OPEN CUT PAVEMENT/CURB/WALK FOR INSTALLATION OF WATER/STORM/SANITARY SEWER. REPAIR OR REPLACE PAVEMENT/CURB/WALK IN KIND.
10. REMOVE SIDEWALK & CURB FOR INSTALLATION OF HANDICAP RAMP ACCESS

DEMOLITION AREA

LEGEND:

- LIGHTING MANHOLE
- MANHOLE
- LIGHT PEDESTAL
- LIGHT POLE
- CATCH BASIN/INLET
- CURB DRAIN
- WATER VALVE
- FIRE HYDRANT
- GAS VALVE
- BEEHIVE CATCH BASIN
- FLAG POLE
- DRAIN
- POWER POLE / ANCHOR
- POWER POLE
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- WATER LINE
- UNDERGROUND ELECTRIC LINE
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- VENT PIPE
- TELEPHONE PEDESTAL
- FLAG POLE
- ELECTRIC TRANSFORMER
- HANDICAP PARKING SIGN
- SIGN or BILLBOARD
- CLEAN OUT
- END SECTION
- SECURITY CAMERA
- ELECTRIC MANHOLE
- MONITORING WELL
- HIGH TENSION TOWER
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- SIB — SET 5/8" IRON REBAR W/ "ALLEN 29900011" I.D. CAP
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- FCX — FOUND CHISELED X

DONALD C. TORRENGA
REGISTERED
No. 19868
STATE OF INDIANA
PROFESSIONAL ENGINEER

NORTH

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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907 RIDGE ROAD, MUNSTER, INDIANA 46321
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POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
DEMOLITION PLAN

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

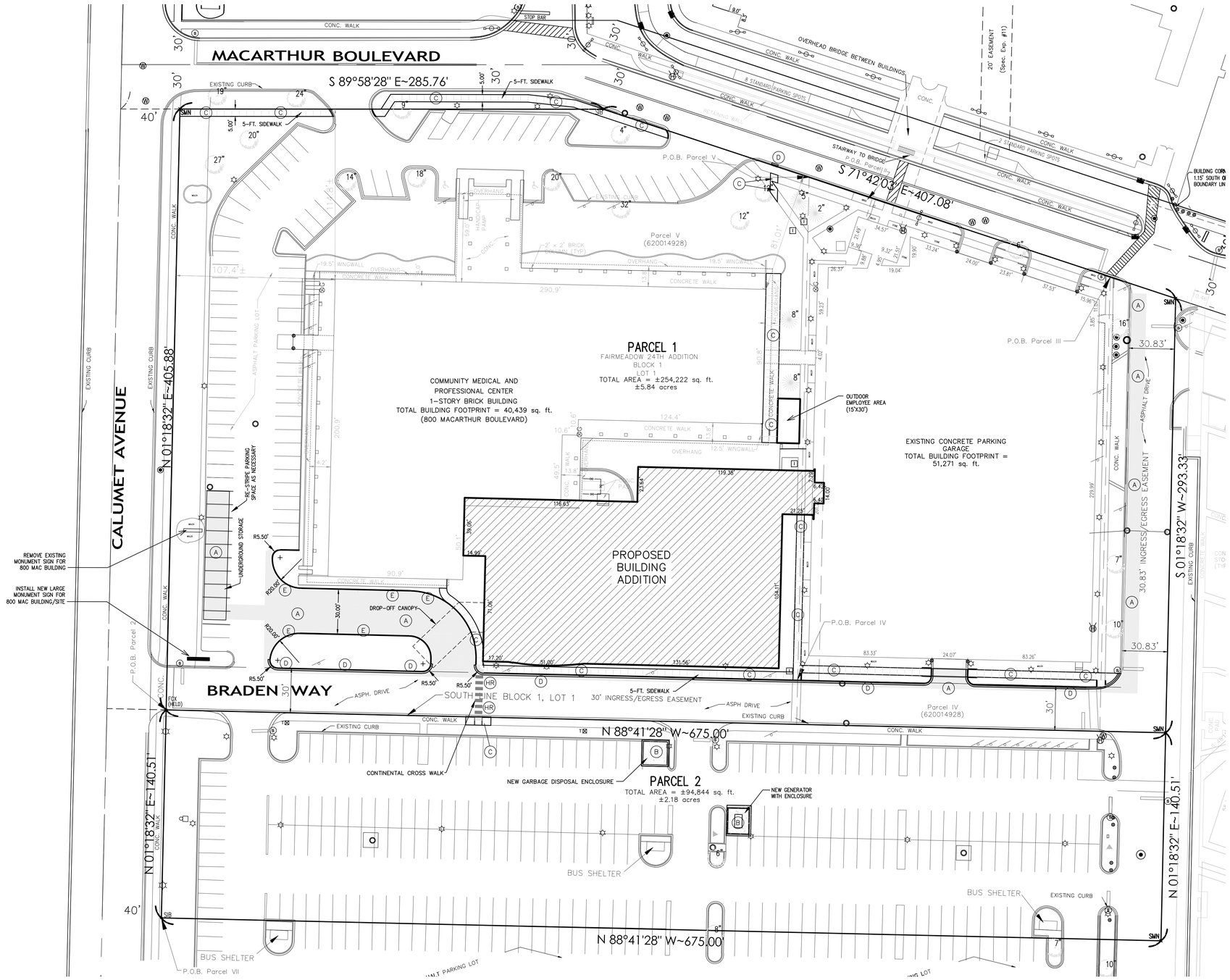
JOB NO: 2024-5042

SCALE: 1" = 30'

SHEET
C-1.1

FILE NO: Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 800 MacArthur.dwg 12/23/2024 10:51:24 AM CST

SITE PLAN



LEGEND:

PROPOSED

- (A) ASPHALT PAVEMENT SECTION
- (B) CONCRETE PAVEMENT/PAD
- (C) CONCRETE SIDEWALK
- (D) 24" CURB & GUTTER
- (E) 6" BARRIER CURB
- (HR)

NORTH

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

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POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
SITE PLAN

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

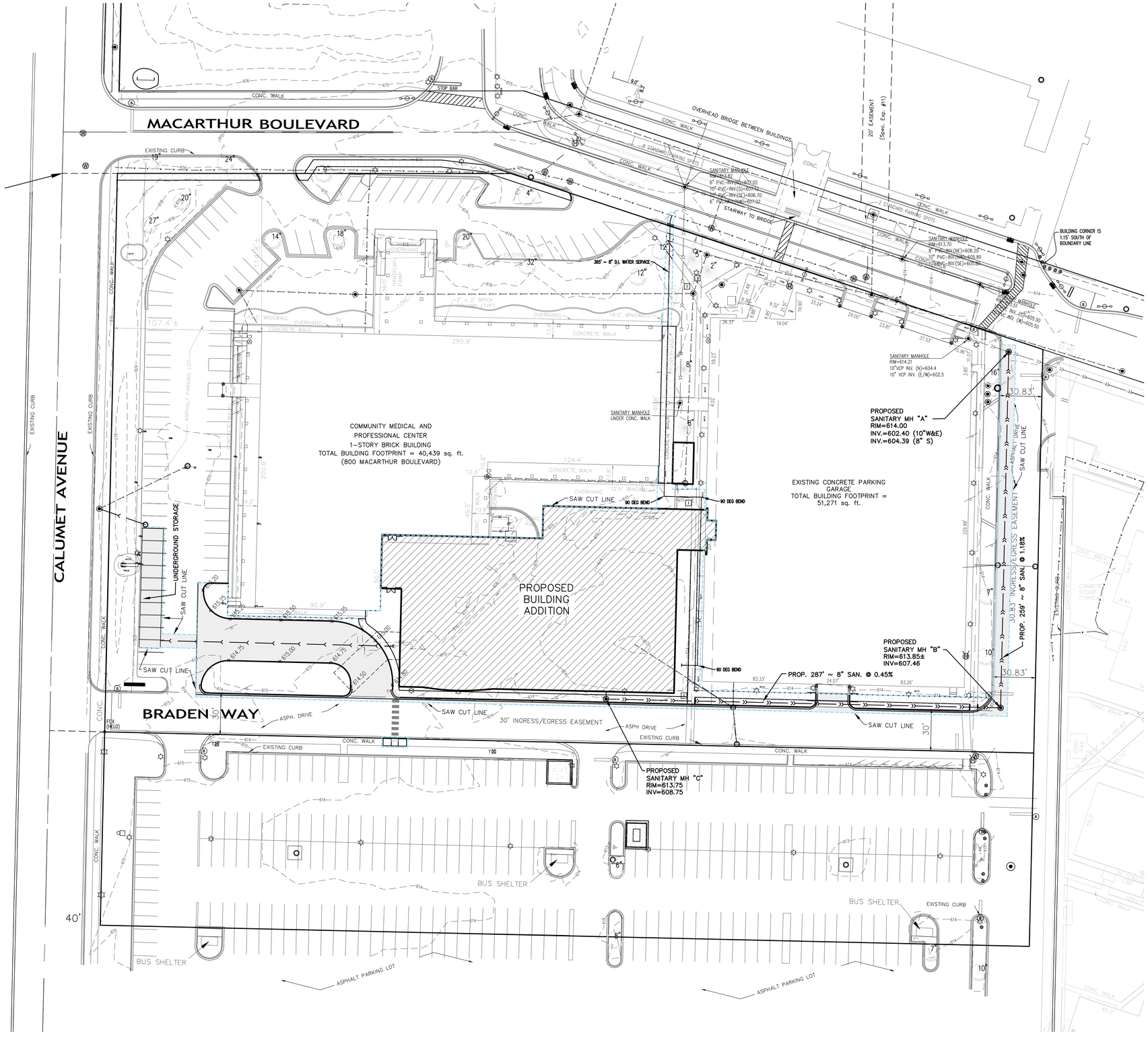
JOB NO: 2024-5042

SCALE: 1" = 30'

SHEET
C-2.0

FILE NO: Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 800 MacArthur.dwg 12/23/2024 10:51:24 AM CST

GRADING & UTILITY PLAN



LEGEND:

PROPOSED

- SANITARY SEWER
- STORM SEWER
- WATER LINE
- GRADE

NORTH

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

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907 RIDGE ROAD, MUNSTER, INDIANA 46321
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POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
GRADING & UTILITY PLAN

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

JOB NO: 2024-5042

SCALE: 1" = 30'

SHEET
C-3.0

FILE NO:Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 800 MacArthur.dwg 12/23/2024 10:51:24 AM CST

GENERAL SPECIFICATIONS FOR SANITARY SEWER

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, and the State of Indiana.

2. All sanitary sewer pipe, branches and fittings shall conform to one of the following: (a) Extra strength vitrified clay pipe (ASTM C-700) with push on rubber gasket joints (ASTM C-425). (b) Poly-vinyl chloride (PVC), SDR 26 (ASTM D-3034), with push-on rubber gasket joints (ASTM C-3212). Six inch service pipes shall be in accordance with the infrastructure improvement codes of the Town of Munster.

3. All sanitary sewer manholes shall be standard 48" diameter precast concrete units (ASTM C-478) conforming with the Standard Detail sheet of these plans.

4. The sanitary manhole base shall be precast with a minimum of 2 foot section, trough, etc..

5. Sanitary manholes shall be provided with a watertight gasketed cover

6. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade.

7. The competed sanitary sewer system shall be air tested for infiltration and shall have a maximum infiltration of 100 GPD/inch/diameter/mile of sewer pipe. The completed sanitary sewer system shall be air pressure tested for infiltration/exfiltration with 4 lbs. of pressure for 4 minutes. The testing shall conform to the procedure described in ASTM C-838-86 for clay pipe, ASTM C 924 for concrete pipe, ASTM F-1417 for poly-vinyl chloride pipe, and for other materials test procedures approved by the regulatory agency. The Contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

8. Deflection tests shall be performed on all flexible pipe materials placed. The contractor shall be responsible for supplying testing materials and appurtenances. The tests shall be conducted after the final backfill has been in place at least 30 days. No pipe shall exceed a deflection of 5 %. If the deflection test is to be run using a rigid ball or mandrel, it shall have a diameter equal to 95 % of the inside diameter of the pipe. The test shall be performed without mechanical pulling devices. The Town of Munster shall be notified when the system (or portion thereof) is ready for testing.

9. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The contractor shall provide special backfill material across driveways and sidewalks in the event that a sewer or main is installed underneath.

11. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

12. The Contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Plans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance.

13. Air pressure test shall be performed on all completed Sanitary Manholes in accordance with ASTM C 1244-93, Standard Test Method for Concrete Sewer Manholes by Negative Air Pressure (Vacuum) Test. The tests shall be conducted prior to backfill to demonstrate the integrity of the installed materials. The manhole shall pass if the test time meets or exceeds the required minimum test times as specified in ASTM C 1244-93 for the vacuum reading to drop from 10 inches of mercury to 9 inches of mercury. If the manhole fails the initial test, necessary repairs shall be made, and the test shall be repeated. The contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the manholes (or portion thereof) are ready for testing.

14. No sanitary sewer manhole shall be within eight (8) feet of a water main as measured from the outside edge of the sanitary sewer manhole to the outside edge of the water main.

GENERAL SPECIFICATIONS FOR WATER MAINS

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, and the State of Indiana.

2. All water main pipe shall be (A) Ductile Iron Pipe (ANSI A 21.51/AWWA C 151, Class 52) with bell and spigot push-on rubber gasket joints (AWWA CIII). All water main shall be wrapped with Polyethylene Bags. All water main pipe shall be installed with a minimum cover of 5.0 feet from the top of the curb to the top of the pipe. All fire hydrants, tees, bends, fittings, and necessary restrained joints lengths shall be suitable harnessed with Meg-a-Lug field lock gaskets, or equal. All bolts and nuts on water main structures shall be stainless steel. Pressure test at 150 psi for 2 hours. Other materials may be used only with the express written permission of the Town of Munster.

3. All water mains shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed sewer. The distance shall be measured from outside of pipe to outside of pipe. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

4. Care should be taken in parkway areas to assure compaction acceptable for the future stability of driveways and sidewalks. While special backfill material is not required, it shall be the responsibility of the Contractor to protect against substantial future settlement of backfilled areas. The Contractor shall provide special backfill material across driveways and sidewalks in the event that a water main is installed underneath.

5. The Buffalo Boxes shall be arch pattern box style and shall be located in parkways, if possible. No Buffalo Boxes shall be located in concrete areas, and they shall have AWWA approved shut offs and corporation valves.

6. All water main pipe shall be disinfected by the use of liquid chlorine. The Contractor shall notify the town of Munster when the water main system (or portion thereof) is ready for testing.

7. The Contractor is responsible for water quality tests done by a State Certified Laboratory. The Town of Munster Water Department staff shall be notified and be present while tests are being performed. The approved water system shall be turned on by the Water Department Staff, only after the water quality reports have been approved.

8. The newly installed water main (or portions thereof) shall be subjected to a pressure and leakage test, using hydrostatic testing. Test pressure shall not be less than 1.5 times the working pressure or exceed pipe design pressure. Pressure shall not vary by more than ± 5 PSI for a minimum of a 2 hour duration test. The exposed pipe and joints shall be examined carefully during the test and any damaged or defective pipe or joints shall be replaced, and the test shall be repeated. The allowable leakage shall not exceed 11.65 gpd/mi/in of nominal pipe diameter at a pressure of 150 PSI.
All visible leaks are to be repaired regardless of the amount of leakage. The contractor shall be responsible for supplying all testing materials and appurtenances. The Town of Munster shall be notified when the water main (or portion thereof) is ready for testing.

9. The contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" Plans and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of the final acceptance .

10. All watermain shall be polywrapped.

11. Fire protection service lines and domestic use service lines shall be tapped separately from the water main to allow for shutdown of the domestic service only for non-payment.

GENERAL SPECIFICATIONS FOR STORM SEWERS

1. All work shall be performed in accordance with the Codes, Ordinances and Standards of the Town of Munster, Lake County, Indiana.

2. All storm sewer pipe, branches and fittings shall conform to either of the following: (A) Poly-vinyl chloride SDR 35 or SDR 26 (ASTM D-3034) with push on rubber gasket joints (ASTM C-3212) for pipe 15" in diameter or under or: (B) High Density Polyethylene corrugated pipe with an integrally formed smooth interior (ASTM D-1248) for pipe 18" or over or: (C) Reinforced concrete pipe (ASTM C-76) with bell and spigot or tongue and groove push-on mastic joints. Class V reinforced concrete pipe shall be used for lines 15" diameter or under and Class III shall be used for lines 18" and over.

3. Gasketed joints shall be used on all storm sewers.

4. Storm sewers 18" to 27" with less than 3' cover shall be Class IV pipe.

5. All storm sewer manholes shall be standard precast concrete units (ASTM C-478) conforming with the standard details sheet of these plans.

6. All improvements installed across paved or future paved areas shall be backfilled with sand or graded stone aggregate to the subgrade line.

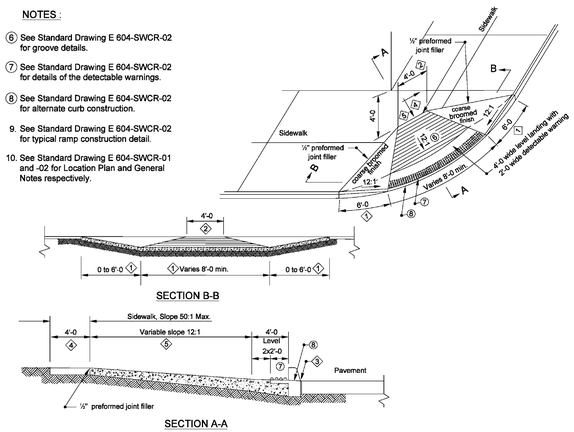
7. All sewers shall be laid at least 10 feet (3.0m) horizontally from any existing or proposed water main. The distance shall be measured edge to edge. All sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches (46 cm) between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to prevent damage to the water main. When it is impossible to obtain proper horizontal and vertical separation as stipulated above, the sewer shall be designed and constructed equal to water pipe.

8. The Contractor is responsible for the preparation of "As Built" construction drawings showing actual sizes and lengths of pipe installed (i.e. from manhole to manhole or tee to valve, etc.), location of service taps and any structures added or omitted in comparison with these engineering plans. The Contractor shall supply the Developer (through the Project Engineer) with one set of reproducible original "As-Built" and shall supply the Town of Munster with 2 copies thereof prior to and as a condition of final acceptance.

9. No storm sewer manhole, catch basin and inlet shall be within eight (8) feet of a water main as measured from the outside edge of the storm sewer manhole, catch basin and inlet to the outside edge of the water main.

NOTES :

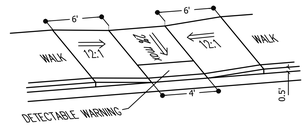
6. See Standard Drawing E 604-SWCR-02 for groove details.
7. See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
8. See Standard Drawing E 604-SWCR-02 for alternate curb construction.
9. See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
10. See Standard Drawing E 604-SWCR-01 and -02 for Location Plan and General Notes respectively.



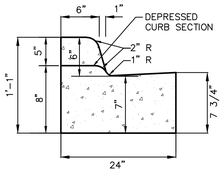
SECTION B-B

SECTION A-A

CURB RAMP TYPE B
NOT TO SCALE



HANDICAP FLARED SIDES RAMP
NOT TO SCALE



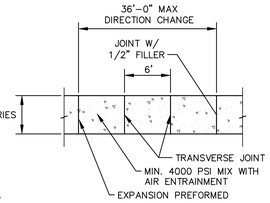
CONCRETE HIGH BACK CURB AND GUTTER
NOT TO SCALE

Figure 43a

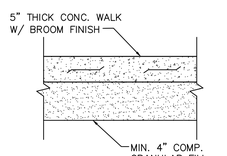
INTERNATIONAL SYMBOL OF ACCESSIBILITY PROPORTIONS
NOT TO SCALE

Figure 4b

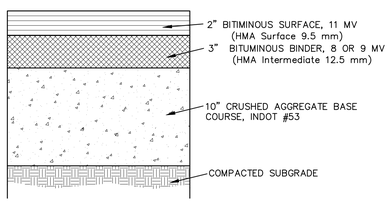
INTERNATIONAL SYMBOL OF ACCESSIBILITY DISPLAY CONDITIONS
NOT TO SCALE



SIDEWALK PLAN

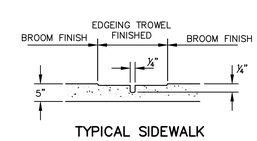


SIDEWALK SECTION

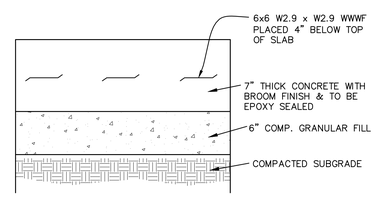


NOTES:
1. WHERE FILL IS REQUIRED, SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D698 METHOD OF TESTING.

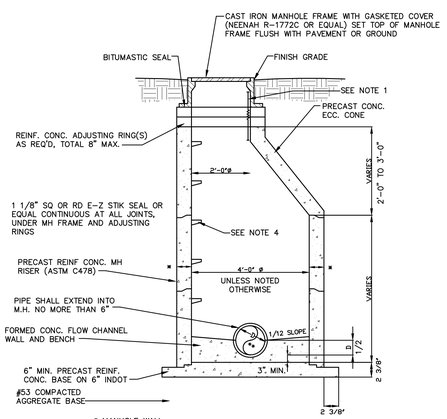
TYPICAL PAVEMENT SECTION
NOT TO SCALE



TYPICAL SIDEWALK DETAIL
NOT TO SCALE



CONCRETE PAD
SECTION VIEW

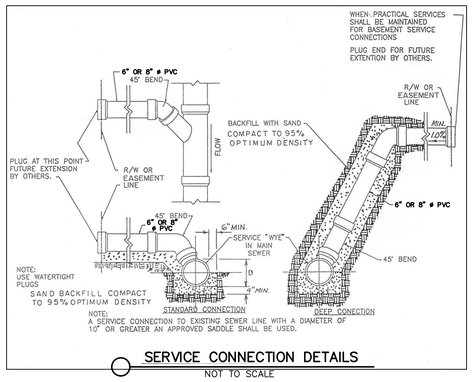


* MANHOLE WALL THICKNESS TABLE

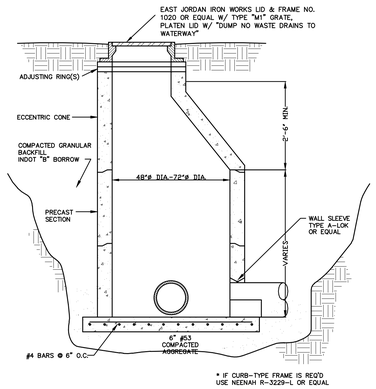
MH I.D.	WALL THICKNESS
48"	5"
60"	6"
72"	7"

NOTES:
1. USE CANUSA WRAP ON ALL MANHOLES.
2. WHERE DEPTH FROM TOP OF CASTING TO INVERT IS LESS THAN 5'-0", USE FLAT TOP MANHOLE TYPE "C" IN LIEU OF ECCENTRIC CONE
3. WATERTIGHT SEAL IS REQ'D BETWEEN PRECAST RISER AND SEWER PIPE, TYPE A-LOK OR EQUAL.
4. COPOLYMER/STEEL MH STEPS AS MANUFACTURED BY M.A. INDUSTRIES, INC., OR EQUAL, AT 16" O.C.
** FOR PIPE SIZES RANGING FROM 8" TO 30" IN DIAMETER.

SANITARY TYPE "A" MANHOLE
NOT TO SCALE

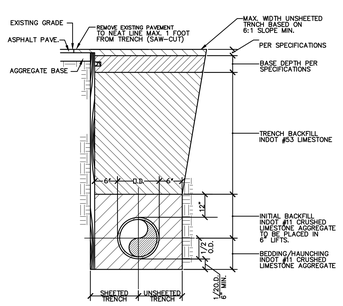


SERVICE CONNECTION DETAILS
NOT TO SCALE

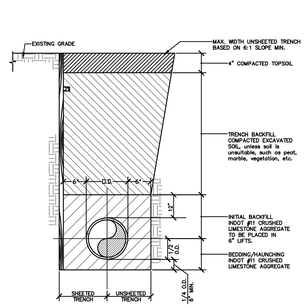


* IF CURB-TYPE FRAME IS REQ'D USE NEENAH R-3229-L OR EQUAL

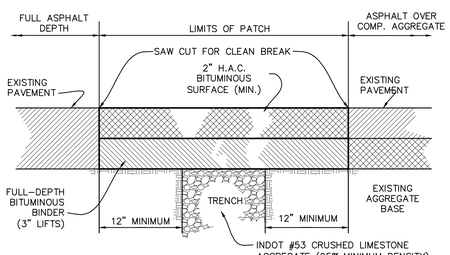
STORM TYPE MANHOLE
NOT TO SCALE



PIPE BEDDING DETAIL FOR TRENCH IN PAVED AREAS
NOT TO SCALE



PIPE BEDDING DETAIL FOR TRENCH IN GRASS AREAS
NOT TO SCALE



CUT PATCHING DETAIL
NOT TO SCALE

TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
Tel. No.: (219) 836-8918
website: www.torrenga.com

POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
DETAILS & SPECIFICATIONS

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

JOB NO: 2024-5042
SCALE: 1" = 30'

SHEET
C-4.0

DONALD C. TORRENGA REGISTERED PROFESSIONAL ENGINEER No. 19868 STATE OF INDIANA

FILE NO: Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 Details.dwg 12/23/2024 10:51:08 AM CST

Date:	December 20, 2024

Project Information:
New Medical Office Building 800 MacArthur Munster Indiana USA

Project Number:	2024-5024

Calculations Performed By:
Don Torrenga Torrenga Engineering, Inc. 907 Ridge Road Munster Indiana 46321 USA (219)836-8918 (219)836-1139

RECHARGER 280HD

Recharger 280HD Chamber Specifications		
Height	**26.5**	inches
Width	**47.0**	inches
Length	**8.00**	feet
Installed Length	**7.00**	feet
Bare Chamber Volume	**42.55**	cu. feet
Installed Chamber Volume	**70.72**	cu. feet

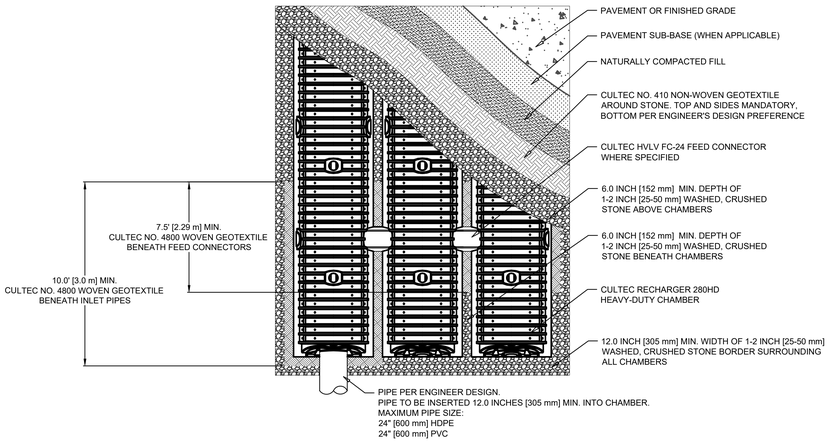
Breakdown of Storage Provided by Recharger 280HD Stormwater System		
Within Chambers	**1,550.15**	cu. feet
Within Feed Connectors	**2.74**	cu. feet
Within Stone	**1,214.18**	cu. feet
Total Storage Provided	**2,767.1**	**cu. feet**
Total Storage Required	2614.00	cu. feet

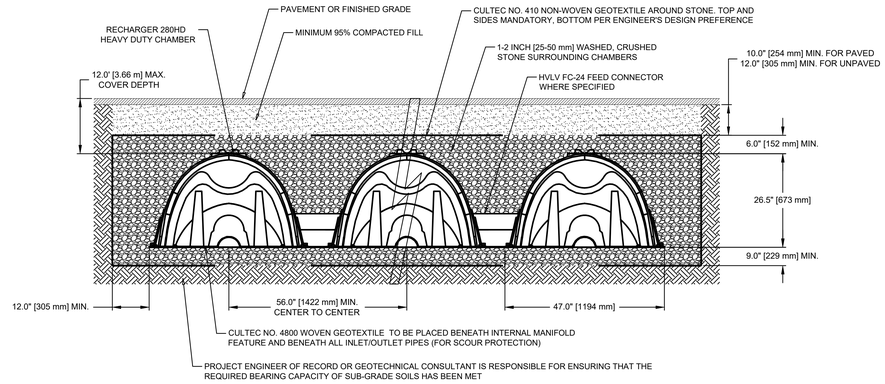
Materials List

Recharger 280HD		
Total Number of Chambers Required	**36**	**pieces**
Starter Chambers	**3**	pieces
Intermediate Chambers	**30**	pieces
End Chambers	**3**	pieces
HVLV FC-24 Feed Connectors	**4**	pieces
CULTEC No. 410 Non-Woven Geotextile	**467**	sq. yards
CULTEC No. 4800 Woven Geotextile	**31**	feet
Stone	**112**	cu. yards

Based on 2 Internal Manifolds

REQUIRED DETENTION = 0.06 AC-FT = 2,614 CU FT
PROPOSED DETENTION = 0.064 AC-FT = 2,767 CU-FT





DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

TORRENGA ENGINEERING, INC.
CONSULTING ENGINEERS & LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
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POWER HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACARTHUR BLVD., MUNSTER, IN 46321
DETAILS & SPECIFICATIONS

REVISIONS:
DATE: 12-23-2024

CLIENT:
JMA Architects
16125 LaSalle Street
South Holland, IL 60473

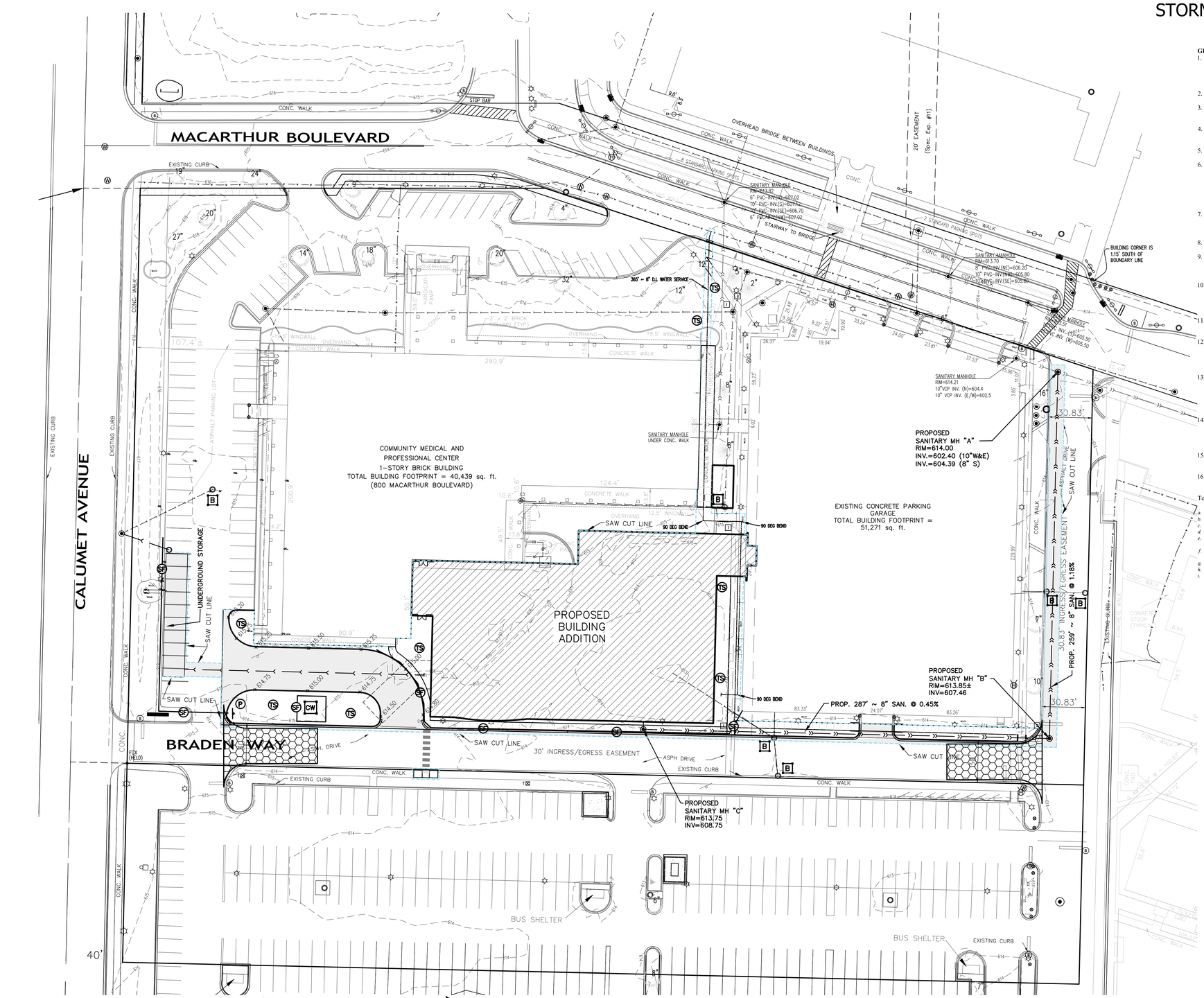
JOB NO: 2024-5042

SCALE: 1" = 30'

SHEET
C-4.1

FILE NO: Z:\2024-5042 800 MacArthur Munster (JMA)\dwg\2024-5042 Details.dwg 12/23/2024 10:51:08 AM CST

STORM WATER POLLUTION PREVENTION PLAN



GENERAL NOTES:

1. THIS PROPERTY IS LOCATED IN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN AS PER FLOOD INSURANCE RATE MAP (FIRM) FOR THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA, MAP NUMBER 18089C0117E, EFFECTIVE DATE JAN. 18, 2012. NO FLOODWAYS OR FLOODPLAINS FRINGES EXIST ON THIS PROPERTY.
2. HYDROLOGIC UNIT CODES: 071200030304 PLUM CREEK-HART DITCH.
3. STATE OR FEDERAL WATER QUALITY PERMITS ARE REQUIRED FOR THE PROJECT, A CONSTRUCTION STORMWATER GENERAL PERMIT (CSGP) IS REQUIRED DUE TO THE DISTURBED AREA BEING ABOVE 1 ACRE.
4. THE SITE CONSISTS OF AN EXISTING HOSPITAL BUILDING WITH A SURROUNDING PARKING LOT THAT CONTAINS MULTIPLE GRASS ISLANDS.
5. THERE IS PRESENCE OF HYDRIC SOILS ON THIS PROPERTY MAUMEE LAOMY FINE SAND (Mm).
6. THERE ARE NO EXISTING WETLAND AREAS ON THIS PROPERTY, AND ITS SURROUNDING AREAS AS CLASSIFIED BY THE U.S. FISH AND WILDLIFE SERVICE, NATIONAL WETLANDS INVENTORY, AND THE UNITED STATES DEPARTMENT OF THE INTERIOR. THERE ARE NO LAKES, PONDS OR WATER COURSES ON THE PROJECT SITE OR ON ADJACENT PROPERTY. NORTH CREEK IS THE WATER COURSE WHICH THE STORMWATER FROM THE PROPOSED SITE WILL ULTIMATELY DISCHARGE INTO, ITS LOCATED APPROXIMATELY 4,600 FEET WEST OF THE PROJECT SITE, AND IS CLASSIFIED AS A WATER OF THE U.S.
7. POTENTIAL SOURCE OF STORM WATER DISCHARGE ENTERING THE GROUNDWATER FROM THIS DEVELOPMENT WILL BE THROUGH NATURAL GROUND ABSORPTION ONLY. THERE ARE NO ABANDONED WELLS OR SINKHOLES ON THE PROPERTY.
8. THERE ARE NO SENSITIVE AREAS ASSOCIATED WITH THIS PROPERTY, AND ITS SURROUNDING AREAS.
9. THERE ARE NO REGULATED DRAINS WITHIN THIS PROPERTY, OR ON ADJACENT PROPERTIES. THERE IS NO RECORD OR KNOWLEDGE OF EXISTING FARM DRAINS OR FIELD TILE, INLETS AND OUTFALLS LOCATED WITHIN THE EXISTING PROPERTY LIMITS.
10. SOIL STOCKPILES, BORROW AND DISPOSAL AREAS ARE LOCATED WITHIN THE PROJECT SITE. SOIL STOCKPILES SHALL BE SURROUNDED WITH SILT FENCING AT ALL TIMES TO PREVENT EXCESSIVE EROSION, AND IF LEFT UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, IT SHALL BE TEMPORARY SEEDED WITHIN 14 DAYS.
11. AREA WHERE THE PROPOSED BUILDING, SIDEWALK, AND CURBS ARE LOCATED WILL BE DISTURBED DURING CONSTRUCTION. IN ALL OTHER AREAS, EXISTING VEGETATIVE COVER WILL BE PRESERVED.
12. FUEL STORAGE AREA IF REQUIRED SHALL BE WITHIN THE CONSTRUCTION STAGING AREA, FUEL SHALL BE STORED IN APPROVED MOBILE REFUELING TANK LOCATED AWAY FROM DRAINAGE STRUCTURES AND CHANNELS. FIRE EXTINGUISHERS SHALL BE LOCATED NEAR FUEL STORAGE AREA AND BE OF SUITABLE TYPE, POSTED, AND BE MAINTAINED IN GOOD CONDITION.
13. TEMPORARY SEED ALL AREAS OF BARE SOIL (WITH THE ADDITION OF A BLANKET WHERE SLOPES ARE GRATER THAN 4:1) THAT WILL REMAIN UNDISTURBED FOR A PERIOD OF MORE THAN 7 DAYS, WITHIN 14 DAYS. SEEDING: OPTIMUM SEEDING DATES ARE MARCH 1 - MAY 10 AND AUGUST 10 - SEPTEMBER 30. SEEDING DATES BETWEEN MAY 10 AND AUGUST 10, MAY NEED TO BE IRRIGATED. FOR SEEDING RECOMMENDATIONS SEE PRACTICE 3.12, INDIANA STORM WATER QUALITY MANUAL.
14. ALL SOIL STOCKPILES, AREAS THAT ARE DISTURBED DURING CONSTRUCTION, AND DRAINAGE SWALES WHICH ARE SCHEDULED OR LIKELY TO BE LEFT INACTIVE FOR SEVEN (7) CALENDAR DAYS OR MORE MUST BE TEMPORARILY OR PERMANENTLY SEEDED WITH MEASURES APPROPRIATE FOR THE SEASON WITHIN FOURTEEN (14) DAYS.
15. LOCATION OF ON-SITE POSTING, OF THE PLANS AND LOCAL STORMWATER PERMIT, SHALL BE AVAILABLE AT THE ENTRANCE TO THE SITE AND VISIBLE TO THE PUBLIC.
16. SITE ELEVATIONS ARE BASED ON NAVD 88, AND HORIZONTAL DATUM IS BASED ON INDIANA STATE PLANE COORDINATES NAD 83.

Temporary stabilization plans and sequence of implementation.

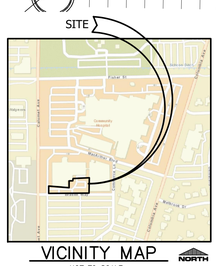
a. *On site posting of the complete local stormwater permit. Location of the posting and plans shall be made available by the owner contractor.*
b. *Installation of all erosion/sedimentation controls including stabilized construction entrance, silt fences, etc... per the engineering plans.*
c. *Clearing and grubbing.*
d. *Topsoil stockpile surrounded with silt fencing.*
e. *Rough cut and fill of all proposed sidewalk, building pad, and other major grading per the engineering plans shall be done to rough grades at start of construction to prevent excessive soil erosion due to construction.*
f. *Implementation of storm sewer inlet protection at each open-grate structure (fabric drop inlet protection, basket inlet protection, etc., as per engineering plans).*
g. *Regrade and construct sidewalks and building pad.*
h. *Finish grading of all disturbed areas with permanent seeded, mulched, and landscaping, when no additional disturbance is anticipated.*
i. *Complete permanent erosion control and restoration of site vegetation. Erosion control measures are to be removed upon permanent vegetative cover being established.*

SWPPP LEGEND:

(FOR SPECIFICATIONS & DETAILS SEE SHEETS C-6.0 – C-6.1)

- TEMPORARY ENTRANCE/EXIT (GRAVEL OR MAT)
- SOIL STOCK PILE
- B – BASKET INLET/CATCH BASIN PROTECTION
- F – FABRIC DROP INLET PROTECTION
- GL – GRADE LIMITS
- SF – SILT FENCE (SEDIMENT FENCE)
- CW – CONCRETE WASH OUT AREA
- TS – TEMPORARY SEEDING
- P – POSTING (RULE 5 NOI & NOS LETTER AND LOCAL SWPPP PERMIT)
- 000.00 – GRADES (PROPOSED)
- xxx – CONTOUR (PROPOSED)

WETLAND MAP
NOT TO SCALE
Source: National Wetlands Inventory



VICINITY MAP
NOT TO SCALE

SOIL MAP
NOT TO SCALE

MAP UNIT SYMBOL	MAP UNIT NAME
Mm	MAUMEE LOAMY FINE SAND, 0 TO 1 PERCENT SLOPES

NORTH

GRAPHIC SCALE

30 0 15 30 60 120

(IN FEET)
1 inch = 30 ft.

DONALD C. TORRENGA REGISTERED No. 19868 STATE OF INDIANA PROFESSIONAL ENGINEER

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POWER HEALTH
NEW MEDICAL OFFICE BUILDING
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STORM WATER POLLUTION PREVENTION PLAN

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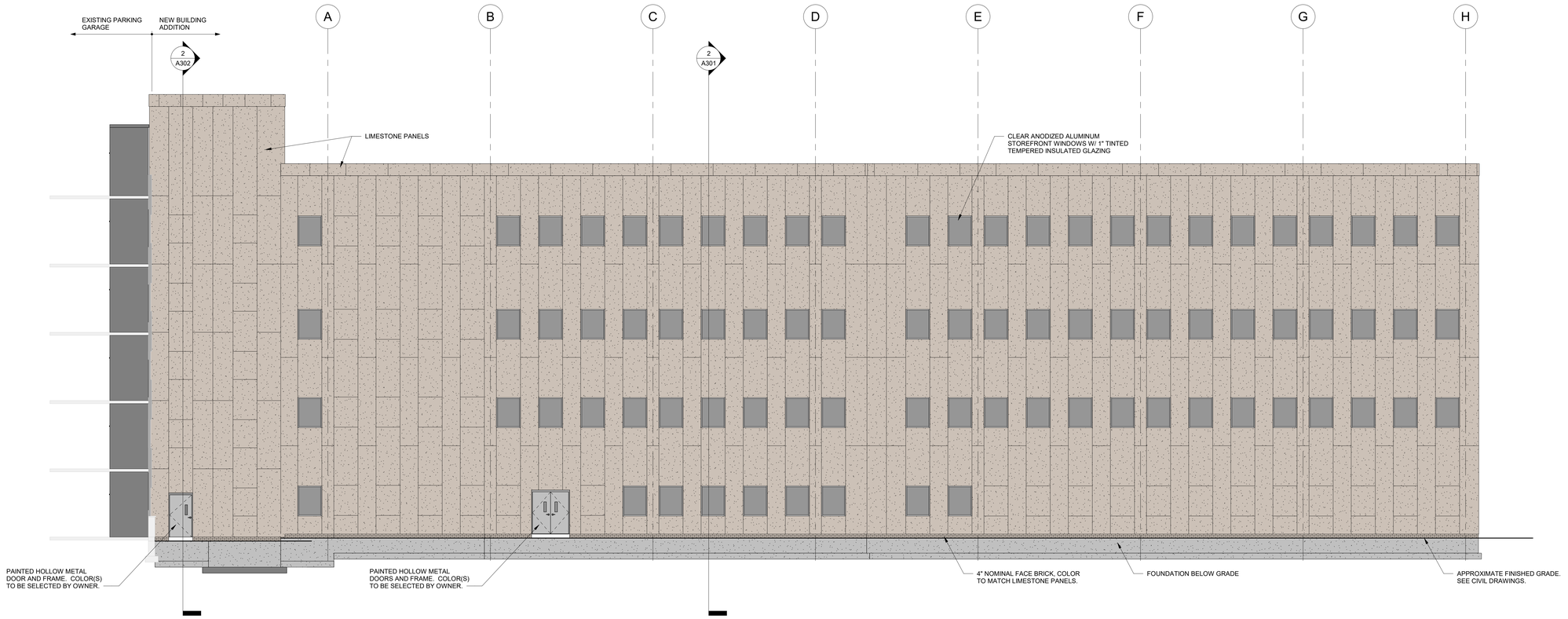
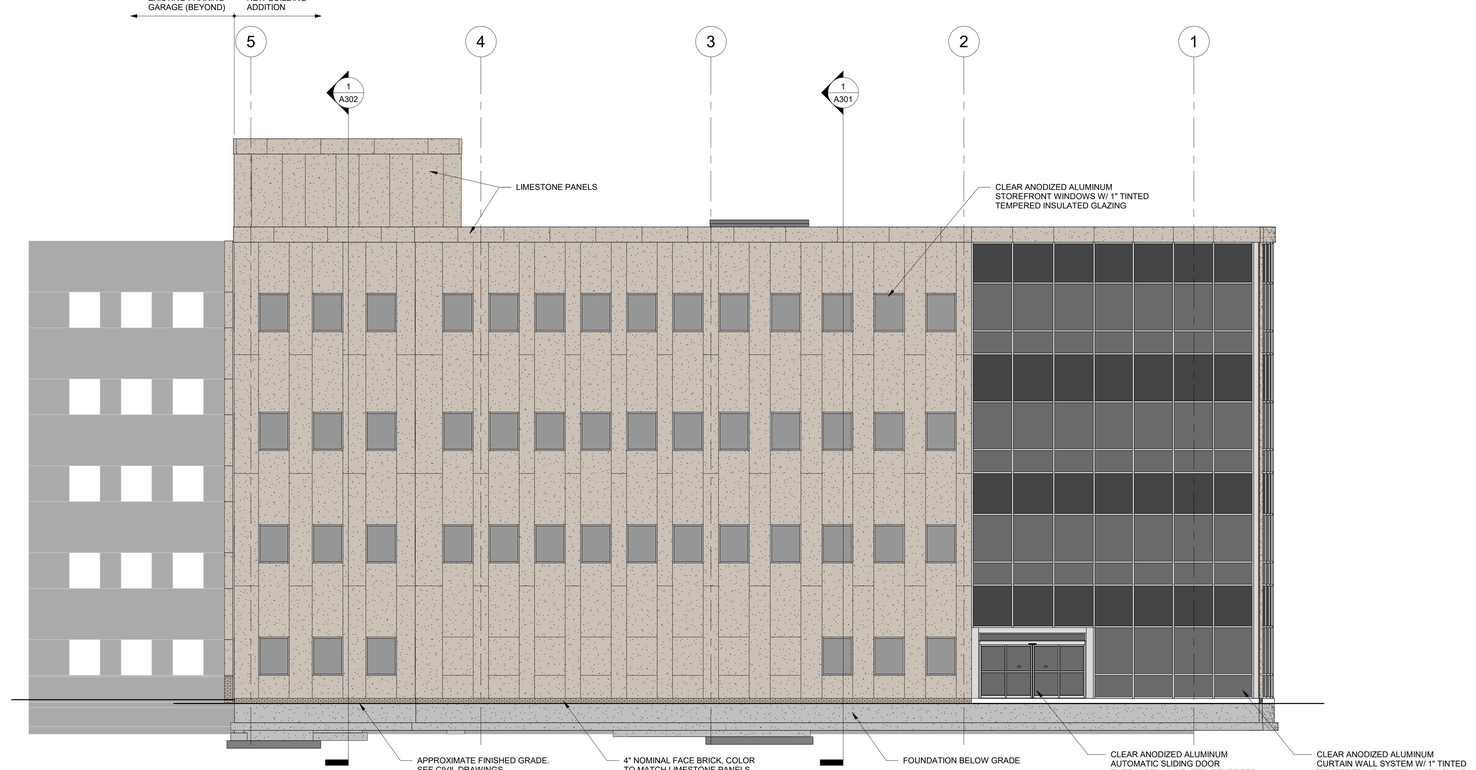
FILE NO: Z:\2024-5042 800 Macarthur Munster (JMA)\dwg\2024-5042 800 Macarthur.dwg 12/23/2024 10:51:24 AM CST



1 NORTH ELEVATION - NEW BUILDING
SCALE: 1/8" = 1'-0"



2 WEST ELEVATION - NEW BUILDING
SCALE: 1/8" = 1'-0"

TOWN OF MUNSTER
SITE PLAN REVIEW
12/05/2024

EXTERIOR ELEVATIONS

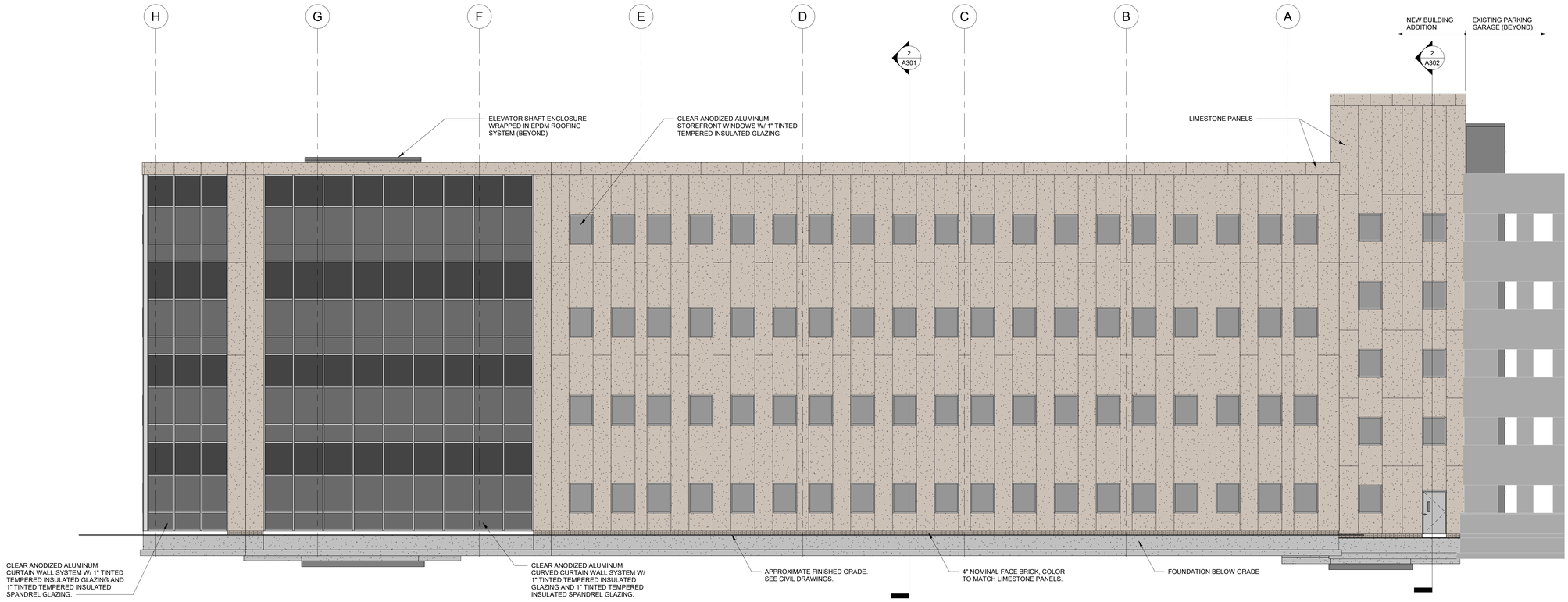
POWERS HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACRTHUR BOULEVARD
MUNSTER, IN 46321

JMA Architects
16125 LaSalle Street
708-339-3900 FAX: 708-339-0949
South Holland, Illinois 60473
www.jmaarchitects.com

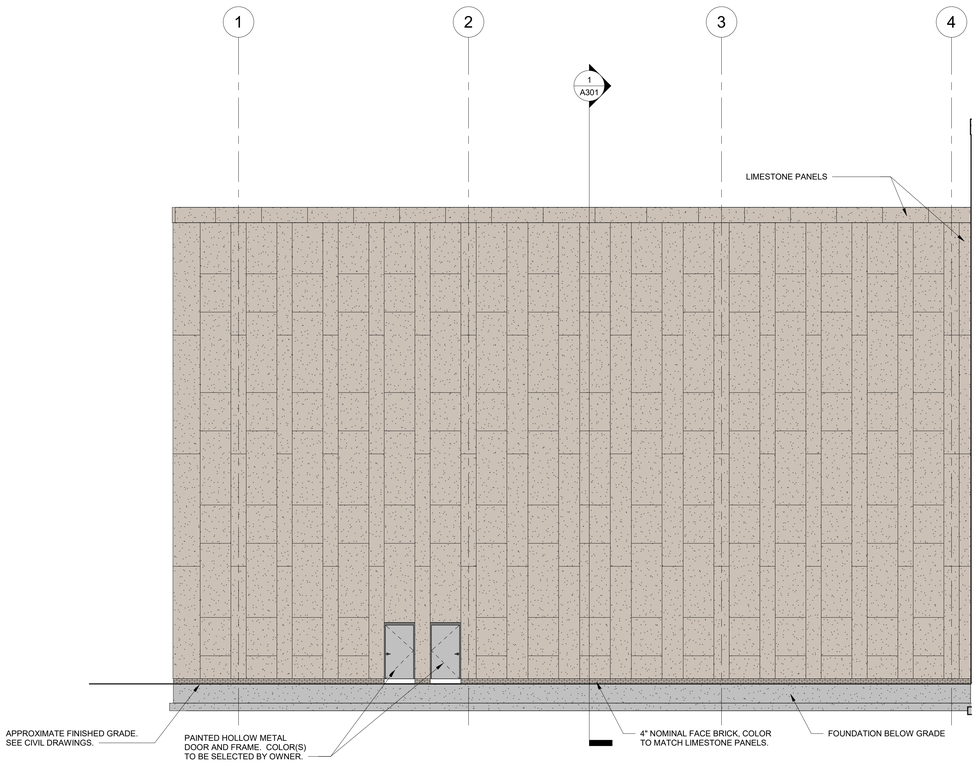
NO.	REVISIONS	DATE	BY

PROJECT NO. 2418
DRAWN MAY CHK'D.
DATE 12/05/2024 ISSUED In-Progress Review Set

A201
SHEETS



1 SOUTH ELEVATION - NEW BUILDING
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION - NEW BUILDING
SCALE: 1/8" = 1'-0"

TOWN OF MUNSTER
SITE PLAN REVIEW
12/05/2024

EXTERIOR ELEVATIONS

POWERS HEALTH
NEW MEDICAL OFFICE BUILDING
800 MACRTHUR BOULEVARD
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16125 LaSalle Street
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South Holland, Illinois 60473
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DATE ISSUED
12/05/2024 In-Progress Review Set

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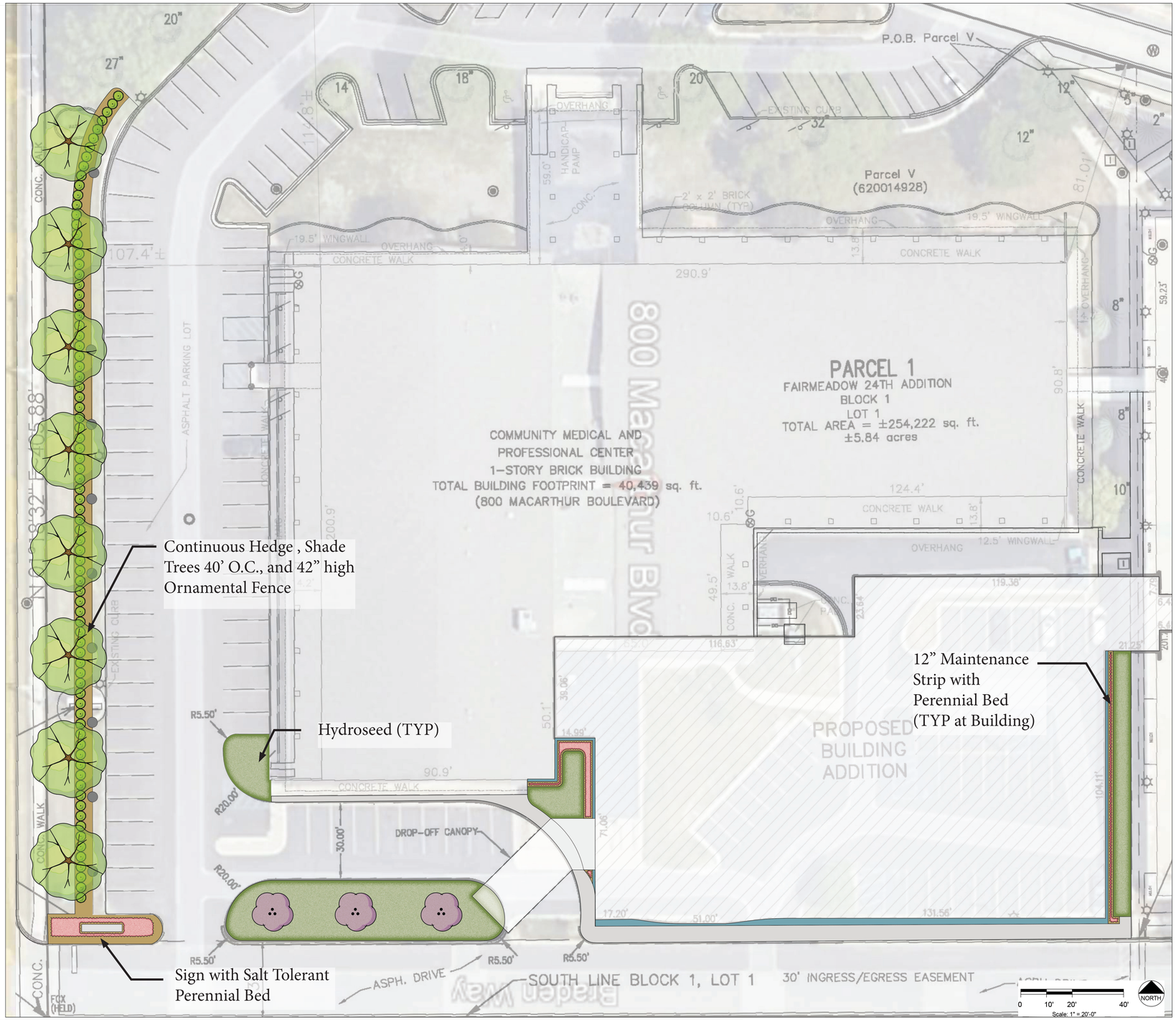
Power Health, New MOB Landscape Enlargements, 800 McArthur Blvd, Munster, IN 46321

Landscape Plan



Plant Schedule

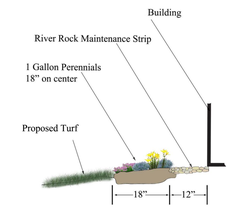
SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	QTY
TREES						
		PARKING LOT SCREENING TREES				8
	GLE	Gleditsia triacanthos	Honey Locust	2" Cal.	B&B	
	GYM	Gymnocladus dioica 'Espresso'	Kentucky Coffeetree	2" Cal.	B&B	
	NYS	Nyssa sylvatica	Black Gum	2" Cal.	B&B	
	QBC	Quercus bicolor	Swamp White Oak	2" Cal.	B&B	
	TDS	Taxodium distichum	Bald Cypress	2" Cal.	B&B	
	TIL	Tilia americana	American Linden	2" Cal.	B&B	
		ORNAMENTAL TREES				3
	AAM	Amelanchier x grandiflora `Autumn Brilliance`	Autumn Brilliance Apple Serviceberry	1.5" Cal.	B&B	
SHRUBS						
		CONTINUOUS HEDGE SHRUBS				81
	CLE	Clethra alnifolia	Summersweet	3 gal.	Pot	
	IJD	Ilex verticillata 'Jim Dandy'	Jim Dandy Winterberry	3 gal.	Pot	
	ILR	Ilex verticillata 'Red Sprite'	Red Sprite Winterberry	3 gal.	Pot	
	MYP	Myrica pensylvanica	Northern Bayberry	3 gal.	Pot	
	SYR	Syringa patula 'Miss Kim'	Miss Kim Korean Lilac	3 gal.	Pot	

SYMBOL	CODE	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER	SPACING	QTY
GROUND COVERS							
		SHADE TOLERANT PERENNIALS					461 sf
	ALM	Allium x `Millenium`	Millenium Ornamental Onion	1 gal.	Pot	18" o.c.	
	BAP	Baptisia australis	Blue Wild Indigo	1 gal.	Pot	36" o.c.	
	EMD	Echinacea purpurea 'Pixie Meadowbrite'	Pixie Meadowbrite Coneflower	1 gal.	Pot	18" o.c.	
	GER	Geranium macrorrhizum `Beven`s Variety`	Beven`s Variety Geranium	1 gal.	Pot	24" o.c.	
	HGC	Hosta x 'Guacamole'	Guacamole Hosta	1 gal.	Pot	24" o.c.	
	NWL	Nepeta racemosa `Walker`s Low`	Catmint	1 gal.	Pot	24" o.c.	

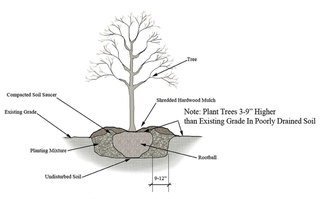
Note: Plant Material is subject to nursery availability. Appropriate substition to be used when plant material is unavailable.

Note:
1.) Mulch Beds to be spade edge.
2.) Hydroseed all disturbed areas.
3.) Irrigation to be provided, connect to existing system.

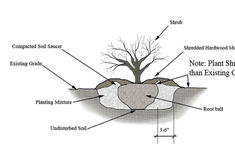
Planting Details



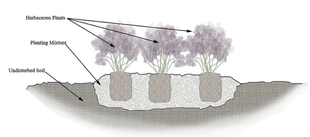
Flowering Perennial/River Rock Maintenance Strip Detail - (no scale)



Tree Planting Detail (no Scale)



Shrub Planting Detail (no Scale)



Herbaceous (Perennial and Ornamental Grass) Planting Detail (no Scale)

ROBERT P. SARGENT REGISTERED No. LA10012 STATE OF INDIANA LANDSCAPE ARCHITECT

L101

Lakeshore
Ideas · Energy · Service

TOWN OF MUNSTER SITE LIGHTING ORDINANCES ARTICLE 26, SECTION 26-6.405Q:

1. ILLUMINATION OF PARKING AREAS, PARKING LOTS, PARKING STRUCTURES, AND ALL PEDESTRIAN WAYS SHALL BE PROVIDED AT AN AVERAGE OF 1.0-2.5 FOOT-CANDLES AND A MINIMUM OF 0.4 FOOT-CANDLES.

GENERAL NOTES

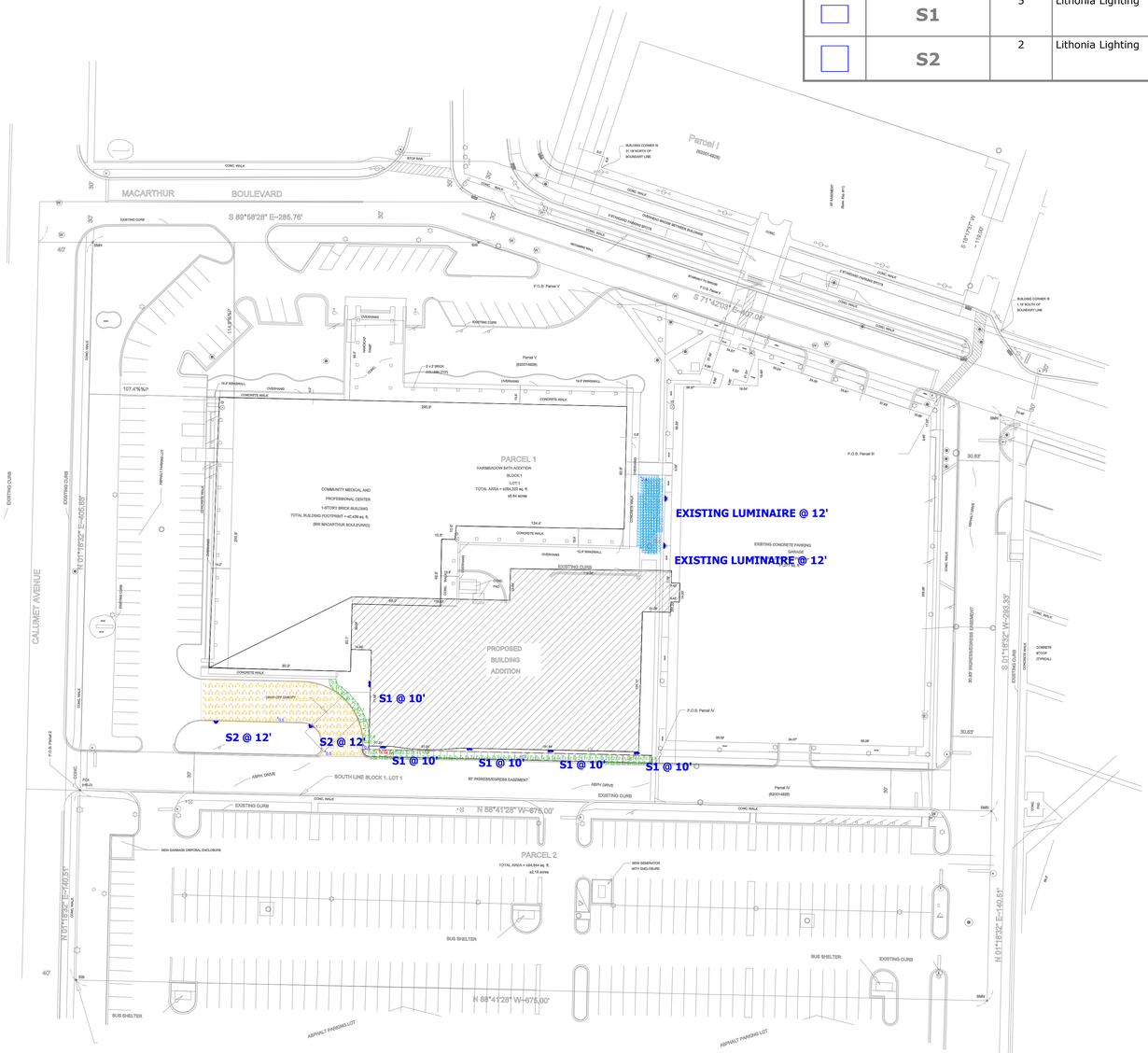
1. POLE HEIGHT OF ALL NEW POLE MOUNTED LUMINAIRES SHALL BE 12'-0" TO MATCH EXISTING POLE MOUNTED LUMINAIRE HEIGHTS.
2. COLOR TEMPERATURE OF NEW EXTERIOR MOUNTED POLE LUMINAIRES SHALL BE 5000K TO MATCH THE EXISTING POLE MOUNTED LUMINAIRES.

Schedule

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Number Lamps	Lumens Per Lamp	Light Loss Factor	Wattage
	S1	5	Lithonia Lighting	WDGE2 LED P4 50K 80CRI T3M	WDGE2 LED WITH P4 - PERFORMANCE PACKAGE, 5000K, 80CRI, TYPE 3 MEDIUM OPTIC	1	4217	0.81	46.6589
	S2	2	Lithonia Lighting	DSX1 LED P2 50K 80CRI T4M	D-Series Size 1 Area Luminaire P2 Performance Package 5000K CCT 80 CRI Type 4 Medium	1	9136	0.81	67.79

Statistics

Description	Symbol	Avg	Avg/Min	Max/Min	Max	Min
Drive	+	2.1 fc	4.2:1	10.2:1	5.1 fc	0.5 fc
Sidewalk	+	2.5 fc	4.2:1	8.0:1	4.8 fc	0.6 fc
Employee Area	+	4.4 fc	1.8:1	2.3:1	5.6 fc	2.4 fc



Plan View

TOWN OF MUNSTER
SITE PLAN REVIEW
12/05/2024

PRELIMINARY
NOT FOR
CONSTRUCTION

IMEG
www.imegcorp.com
203 SHUMAN BOULEVARD
SUITE 500
NAPERVILLE, IL 60563
P: 630.537.2320

Illinois Design Firm Registration #184008976-0014

0 1 2 3
REF. SCALE IN INCHES

PROJECT #24005012.00

SITE PLAN - ELECTRICAL PHOTOMETRICS

JMA Architects-South Holland
Powers Health / Community 800 MAC

JMA Architects
16125 LaSalle Street
708-339-3900 FAX: 708-339-0949
South Holland, Illinois 60473
www.jmaarchitects.com

NO.	REVISIONS	DATE	BY

PROJECT NO. 24005012.00
DRAWN JMF CHKD AJV
DATE 12/05/2024 ISSUED

E101
SHEETS

Powers Health 800 MAC

Site Luminaire Booklet

WDGE2 LED

Architectural Wall Sconce
Precision Refractive Optic

Catalog Number

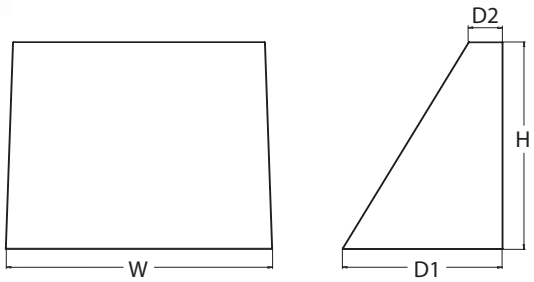
Notes

Type S1

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

Depth (D1):	7"
Depth (D2):	1.5"
Height:	9"
Width:	11.5"
Weight: (without options)	13.5 lbs



Introduction

The WDGE LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WDGE family provides additional energy savings and code compliance.

WDGE2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

WDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

EXAMPLE: WDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WDGE2 LED	P0[1]	27K 2700K	70CRI[4]	T1S Type I Short	MVOLT	**Shipped included**
	P1[2]	30K 3000K	80CRI	T2M Type II Medium	347[5]	SRM Surface mounting bracket
	P2[2]	40K 4000K	LW[3] Limited Wavelength	T3M Type III Medium	480[5]	ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only)[6]
	P3[2]	50K 5000K		T4M Type IV Medium		**Shipped separately**
	P4[2]	AMB[3] Amber		TFTM Forward Throw Medium		AWS 3/8inch Architectural wall spacer[7]
						PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available[7]

Options

E10WH	Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min)
E20WC	Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min)
PE	Photocell, Button Type[8]
DMG	0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)[9]
BCE	Bottom conduit entry for back box (PBBW). Total of 4 entry points.
CCE	Coastal Construction[7]

Standalone Sensors/Controls

PIR	Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching.
PIRH	Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching
PIR1FC3V	Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation.
PIRH1FC3V	Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation.

Networked Sensors/Controls

NLTAIR2 PIR	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights.
NLTAIR2 PIRH	Embedded wireless controls by nLight with Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights.
NLTAIREM2 PIR	Embedded wireless controls by nLight with UL924 listed emegency operation, Passive Infrared Occ sensor and on/off photocell for 8-15' mounting heights
NLTAIREM2 PIRH	Embedded wireless controls by nLight with UL924 listed emegency operation, Passive Infrared Occ sensor and on/off photocell for 15-30' mounting heights.

See page 4 for out of box functionality

Finish

DDBXD	Dark bronze
DBLXD	Black
DNAXD	Natural aluminum
DWHXD	White
DSSXD	Sandstone
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white
DSSTXD	Textured sandstone

Accessories

Ordered and shipped separately.

WDGEAWS DDBXD U	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2PBBW DDBXD U	WDGE2 surface-mounted back box (specify finish)

NOTES

1 P0 option not available with sensors/controls.
2 P1-P4 not available with AMB and LW.
3 AMB and LW always go together.
4 70CRI only available with T3M and T4M.
5 347V and 480V not available with E10WH or E20WC.
6 Not qualified for DLC. Not available with emergency battery backup or sensors/controls.
7 For PBBW and AWS with CCE option, require an RFA.
8 PE not available in 480V or with sensors/controls.
9 DMG option not available with sensors/controls.

Performance Data

Lumen Output

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

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)					Amber (Limited Wavelength)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T1S	636	92	0	0	0	666	97	0	0	0	699	101	0	0	1	691	100	0	0	1	712	47	0	0	1
		T2M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T3M	662	96	0	0	0	693	101	0	0	0	728	106	0	0	0	719	104	0	0	0	741	48	0	0	0
		T4M	648	94	0	0	0	679	98	0	0	0	712	103	0	0	0	704	102	0	0	0	726	47	0	0	0
		TFTM	652	95	0	0	0	683	99	0	0	0	717	104	0	0	0	708	103	0	0	0	730	48	0	0	1
P1	11W	T1S	1,105	99	0	0	1	1,157	104	0	0	1	1,215	109	0	0	1	1,200	107	0	0	1					
		T2M	1,150	103	0	0	1	1,204	108	0	0	1	1,264	113	0	0	1	1,249	112	0	0	1					
		T3M	1,150	103	0	0	1	1,205	108	0	0	1	1,265	113	0	0	1	1,250	112	0	0	1					
		T4M	1,126	101	0	0	1	1,179	106	0	0	1	1,238	111	0	0	1	1,223	110	0	0	1					
		TFTM	1,133	101	0	0	1	1,186	106	0	0	1	1,245	112	0	0	1	1,230	110	0	0	1					
P2	19W	T1S	1,801	95	1	0	1	1,886	99	1	0	1	1,981	104	1	0	1	1,957	103	1	0	1					
		T2M	1,875	99	1	0	1	1,963	103	1	0	1	2,061	109	1	0	1	2,037	107	1	0	1					
		T3M	1,876	99	1	0	1	1,964	103	1	0	1	2,062	109	1	0	1	2,038	107	1	0	1					
		T4M	1,836	97	1	0	1	1,922	101	1	0	1	2,018	106	1	0	1	1,994	105	1	0	1					
		TFTM	1,847	97	1	0	1	1,934	102	1	0	1	2,030	107	1	0	1	2,006	106	1	0	1					
P3	32W	T1S	2,809	87	1	0	1	2,942	92	1	0	1	3,089	96	1	0	1	3,052	95	1	0	1					
		T2M	2,924	91	1	0	1	3,062	95	1	0	1	3,215	100	1	0	1	3,176	99	1	0	1					
		T3M	2,925	91	1	0	1	3,063	95	1	0	1	3,216	100	1	0	1	3,177	99	1	0	1					
		T4M	2,862	89	1	0	1	2,997	93	1	0	1	3,147	98	1	0	1	3,110	97	1	0	1					
		TFTM	2,880	90	1	0	1	3,015	94	1	0	1	3,166	99	1	0	1	3,128	97	1	0	1					
P4	47W	T1S	3,729	80	1	0	1	3,904	84	1	0	1	4,099	88	1	0	1	4,051	87	1	0	1					
		T2M	3,881	83	1	0	1	4,063	87	1	0	1	4,267	91	1	0	1	4,216	90	1	0	1					
		T3M	3,882	83	1	0	1	4,065	87	1	0	1	4,268	91	1	0	1	4,217	90	1	0	1					
		T4M	3,799	81	1	0	1	3,978	85	1	0	1	4,177	90	1	0	1	4,127	88	1	0	1					
		TFTM	3,822	82	1	0	1	4,002	86	1	0	1	4,202	90	1	0	1	4,152	89	1	0	1					

Performance Package	System Watts	Dist. Type	27K (2700K, 70 CRI)					30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P0	7W	T3M	737	107	0	0	0	763	111	0	0	0	822	119	0	0	0	832	121	0	0	1
		T4M	721	105	0	0	0	746	108	0	0	0	804	117	0	0	1	814	118	0	0	1
P1	11W	T3M	1,280	115	0	0	1	1,325	119	0	0	1	1,427	128	1	0	1	1,445	129	1	0	1
		T4M	1,253	112	0	0	1	1,297	116	0	0	1	1,397	125	0	0	1	1,415	127	0	0	1
P2	19W	T3M	2,087	110	1	0	1	2,160	114	1	0	1	2,327	123	1	0	1	2,357	124	1	0	1
		T4M	2,042	108	1	0	1	2,114	111	1	0	1	2,278	120	1	0	1	2,306	121	1	0	1
P3	32W	T3M	3,254	101	1	0	1	3,369	105	1	0	1	3,629	113	1	0	1	3,675	114	1	0	1
		T4M	3,185	99	1	0	1	3,297	103	1	0	1	3,552	111	1	0	1	3,597	112	1	0	1
P4	47W	T3M	4,319	93	1	0	1	4,471	96	1	0	1	4,817	103	1	0	2	4,878	105	1	0	2
		T4M	4,227	91	1	0	1	4,376	94	1	0	2	4,714	101	1	0	2	4,774	102	1	0	2

Electrical Load

Performance Package	System Watts	Current (A)					
		120Vac	208Vac	240Vac	277Vac	347Vac	480Vac
P0	7.0	0.061	0.042	0.04	0.039	--	--
	9.0	--	--	--	--	0.031	0.021
P1	11.0	0.100	0.064	0.059	0.054	--	--
	14.1	--	--	--	--	0.046	0.031
P2	19.0	0.168	0.106	0.095	0.083	--	--
	22.8	--	--	--	--	0.067	0.050
P3	32.0	0.284	0.163	0.144	0.131	--	--
	37.1	--	--	--	--	0.107	0.079
P4	47.0	0.412	0.234	0.207	0.185	--	--
	53.5	--	--	--	--	0.153	0.112

Lumen Output in Emergency Mode (4000K, 80 CRI, T3M)

Option	Lumens
E10WH	1,358
E20WC	2,230

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.03
10°C	50°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.97

Projected LED Lumen Maintenance

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

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

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.93	>0.87

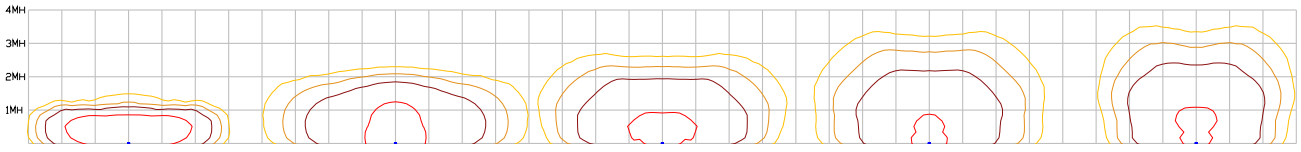
Photometric Diagrams

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

LEGEND

0.25 fc
0.5 fc
1.0 fc
3.0 fc

MH = 10ft
Grid = 10ft x 10ft



"P3 40K 80CRI T1S" "P3 40K 80CRI T2M" "P3 40K 80CRI T3M" "P3 40K 80CRI T4M" "P3 40K 80CRI TFTM"

Emergency Egress Options

Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

Control / Sensor Options

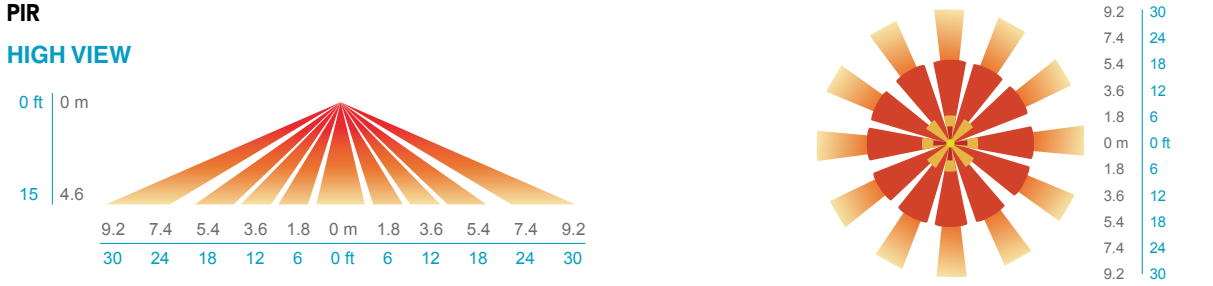
Motion/Ambient Sensor (PIR_, PIRH_)

Motion/Ambeint sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

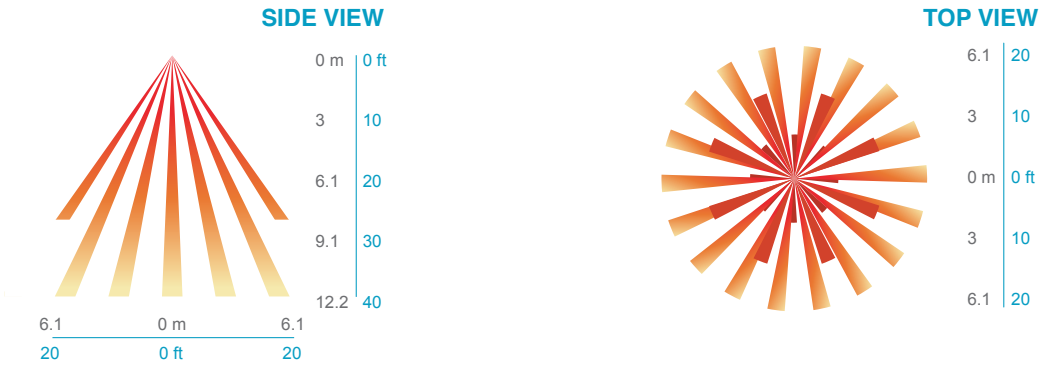
Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

PIR



PIRH



Option	Dim Level	High Level (when triggered	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH, NLTAIREM2 PIR, NLTAIREM2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec

UL 924 Response – nLight AIR Devices with EM Option

- NLTAIREM2 devices will remain at their high-end trim and ignore wireless lighting control commands, unless a normal-power-sensed (NPS) broadcast is received at least every 8 seconds.
- Using the CLAIRITY+ mobile app, NLTAIREM2 devices must be associated with a group that includes a normal power sensing device to receive NPS broadcasts.
- The non-emergency devices, NLTAIR2 PIR and NLTAIR2 PIRH, with version 3.4 or later firmware can be used for normal power sensing.

Mounting, Options & Accessories

Motion/Ambient Sensor

D = 7"
H = 9" (Standalone controls)
11" (nLight AIR controls, 2" antenna will be pointing down behind the sensor)
W = 11.5"

PBBW – Surface-Mounted Back Box
Use when there is no junction box available.

D = 1.75"
H = 9"
W = 11.5"

AWS – 3/8inch Architectural Wall Spacer

D = 0.38"
H = 4.4"
W = 7.5"

FEATURES & SPECIFICATIONS

INTENDED USE
Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

CONSTRUCTION
The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

FINISH
Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

OPTICS
Individually formed acrylic lenses are engineered for superior application efficiency which maximizes the light in the areas where it is most needed. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL
Light engine consists of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2). Fixture ships standard with 0-10v dimmable driver.

INSTALLATION
A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

LISTINGS
CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

GOVERNMENT PROCUREMENT
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:
www.acuitybrands.com/support/warranty/terms-and-conditions

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

D-Series Size 1
LED Area Luminaire

Catalog Number

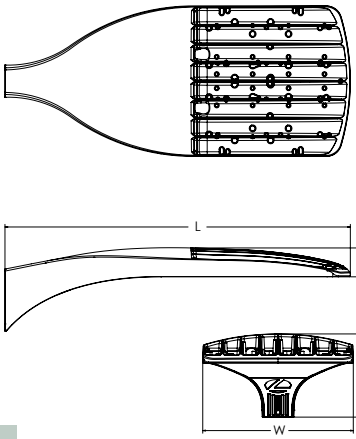
Notes

Type S2

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA:	0.69 ft² (0.06 m²)
Length:	32.71" (83.1 cm)
Width:	14.26" (36.2 cm)
Height H1:	7.88" (20.0 cm)
Height H2:	2.73" (6.9 cm)
Weight:	34 lbs (15.4 kg)



Design Select options indicated by this color background.

Introduction

The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

design select

Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect.
*See ordering tree for details

Ordering Information

EXAMPLE: DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAIR2 PIRHN DDBXD

DSX1 LED

Series	LEDs	Color temperature [2]	Color Rendering Index [2]	Distribution		Voltage	Mounting
DSX1 LED	**Forward optics**	(this section 70CRI only)		AFR Automotive front row	T5M Type V medium	MVOLT (120V-277V) [4]	**Shipped included**
	P1 P6	30K 3000K	70CRI	T1S Type I short	T5LG Type V low glare	HVOLT (347V-480V) [5,6]	SPA Square pole mounting (#8 drilling)
	P2 P7	40K 4000K	70CRI	T2M Type II medium	T5W Type V wide	XVOLT (277V - 480V) [7,8]	RPA Round pole mounting (#8 drilling)
	P3 P8	50K 5000K	70CRI	T3M Type III medium	BLC3 Type III backlight control [3]	120 [16, 26]	SPA5 Square pole mounting #5 drilling [9]
	P4 P9	(this section 80CRI only, extended lead times apply)		T3LG Type III low glare [3]	BLC4 Type IV backlight control [3]	208 [16, 26]	RPA5 Round pole mounting #5 drilling [9]
	P5	27K 2700K	80CRI	T4M Type IV medium	LCCO Left corner cutoff [3]	240 [16, 26]	SPA8N Square narrow pole mounting #8 drilling
	Rotated optics	30K 3000K	80CRI	T4LG Type IV low glare [3]	RCCO Right corner cutoff [3]	277 [16, 26]	WBA Wall bracket [10]
	P10 [1] P12 [1]	35K 3500K	80CRI	TFTM Forward throw medium		347 [16, 26]	MA Mast arm adapter (mounts on 2 3/8" OD horizontal tenon)
	P11 [1] P13 [1]	40K 4000K	80CRI			480 [16, 26]	
		50K 5000K	80CRI				

Control options

Shipped installed

NLTAIR2 PIRHN	nLight AIR gen 2 enabled with bi-level motion / ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc. [11, 12, 20, 21]
PIR	High/low, motion/ambient sensor, 8-40' mounting height, ambient sensor enabled at 2fc [13, 20, 21]
PER	NEMA twist-lock receptacle only (controls ordered separate) [14]
PER5	Five-pin receptacle only (controls ordered separate) [14, 21]
PER7	Seven-pin receptacle only (controls ordered separate) [14, 21]
FAO	Field adjustable output [15, 21]
BL30	Bi-level switched dimming, 30% [16, 21]
BL50	Bi-level switched dimming, 50% [16, 21]
DMG	0-10v dimming wires pulled outside fixture (for use with an external control, ordered separately) [17]
DS	Dual switching [18, 19, 21]

Other options

Shipped installed

SPD20KV	20KV surge protection
HS	Houseside shield (black finish standard) [22]
L90	Left rotated optics [1]
R90	Right rotated optics [1]
CCE	Coastal Construction [23]
HA	50°C ambient operation [24]
BAA	Buy America(n) Act and/or Build America Buy America Qualified
SF	Single fuse (120, 277, 347V) [26]
DF	Double fuse (208, 240, 480V) [26]

Shipped separately

EGSR	External Glare Shield (reversible, field install required, matches housing finish)
BSDB	Bird Spikes (field install required)

Finish *(required)*

DDBXD	Dark Bronze
DBLXD	Black
DNAXD	Natural Aluminum
DWHXD	White
DDBTXD	Textured dark bronze
DBLBXD	Textured black
DNATXD	Textured natural aluminum
DWHGXD	Textured white

Ordering Information

Accessories

Ordered and shipped separately.

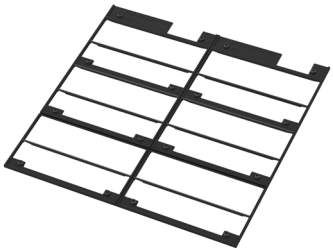
DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) [25]
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) [25]
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) [25]
DSHORT SBK	Shorting cap [25]
DSX1HS P#	House-side shield (enter package number 1-13 in place of #)
DSXRPA (FINISH)	Round pole adapter (#8 drilling, specify finish)
DSXSPA5 (FINISH)	Square pole adapter #5 drilling (specify finish)
DSXRPA5 (FINISH)	Round pole adapter #5 drilling (specify finish)
DSX1EGSR (FINISH)	External glare shield (specify finish)
DSX1BSDB (FINISH)	Bird spike deterrent bracket (specify finish)

NOTES

1 Rotated optics available with packages P10, P11, P12 and P13. Must be combined with option L90 or R90.
2 30K, 40K, and 50K available in 70CRI and 80CRI. 27K and 35K only available with 80CRI. Contact Technical Support for other possible combinations.
3 T3LG, T4LG, BLC3, BLC4, LCCO, RCCO not available with option HS.
4 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
5 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
6 HVOLT not available with package P1 and P10 when combined with option NLTAIR2 PIRHN or option PIR.
7 XVOLT operates with any voltage between 277V and 480V (50/60 Hz).
8 XVOLT not available in packages P1 or P10. XVOLT not available with fusing (SF or DF).
9 SPA5 and RPA5 for use with #5 drilling only (Not for use with #8 drilling).
10 WBA cannot be combined with Type 5 distributions plus photocell (PER).
11 NLTAIR2 and PIRHN must be ordered together. For more information on nLight AIR2 visit this link
12 NLTAIR2 PIRHN not available with other controls including PIR, PER, PER5, PER7, FAO, BL30, BL50, DMG and DS. NLTAIR2 PIRHN not available with P1 and P10 using HVOLT. NLTAIR2 PIRHN not available with P1 and P10 using XVOLT.
13 PIR not available with NLTAIR2 PIRHN, PER, PER5, PER7, FAO BL30, BL50, DMG and DS. PIR not available with P1 and P10 using HVOLT. PIR not available with P1 and P10 using XVOLT.
14 PER/PER5/PER7 not available with NLTAIR2 PIRHN, PIR, BL30, BL50, FAO, DMG and DS. Photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included.
15 FAO not available with other dimming control options NLTAIR2 PIRHN, PIR, PER5, PER7, BL30, BL50, DMG and DS.
16 BL30 and BL50 are not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, FAO, DMG and DS. BL30 or BL50 must specify 120, 277 or 347V. Consult tech support for 208, 240 or 480V.
17 DMG not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DS.
18 DS not available with NLTAIR2 PIRHN, PIR, PER, PER5, PER7, BL30, BL50, FAO and DMG.
19 DS requires (2) separately switched circuits. DS provides 50/50 fixture operation via (2) different sets of leads using (2) drivers. DS only available with packages P8, P9, P10, P11, P12 and P13.
20 Reference Motion Sensor Default Settings table on page 4 to see functionality.
21 Reference Controls Options table on page 4.
22 HS not available with T3LG, T4LG, BLC3, BLC4, LCCO and RCCO distribution. Also available as a separate accessory; see Accessories information.
23 CCE option not available with option BS and EGSR. Contact Technical Support for availability.
24 Option HA not available with performance packages P4, P5, P7, P8, P9 and P13.
25 Requires luminaire to be specified with PER, PER5 or PER7 option. See Controls Table on page 4.
26 Single fuse (SF) requires 120V, 277V, or 347V. Double fuse (DF) requires 208V, 240V or 480V. XVOLT not available with fusing (SF or DF).

Shield Accessories

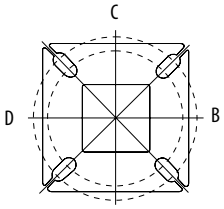
External Glare Shield (EGSR)

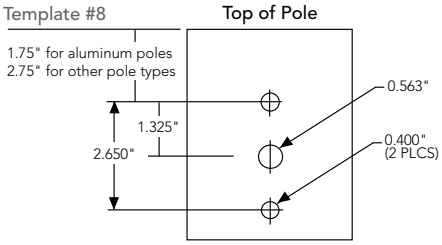


House Side Shield (HS)

Drilling

HANDHOLE ORIENTATION





Tenon Mounting Slipfitter

Tenon O.D.	Mounting	Single Unit	2 @ 180	2 @ 90	3 @ 90	3 @120	4 @ 90
2-3/8"	RPA	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 390	AS3-5 320	AS3-5 490
2-7/8"	RPA	AST25-190	AST25-280	AST25-290	AST25-390	AST25-320	AST25-490
4"	RPA	AST35-190	AST35-280	AST35-290	AST35-390	AST35-320	AST35-490

Mounting Option	Drilling Template	Single	2 @ 180	2 @ 90	3 @ 90	3 @ 120	4 @ 90
Head Location		Side B	Side B & D	Side B & C	Side B, C & D	Round Pole Only	Side A, B, C & D
Drill Nomenclature	#8	DM19AS	DM28AS	DM29AS	DM39AS	DM32AS	DM49AS
		Minimum Acceptable Outside Pole Dimension					
SPA	#8	3.5"	3.5"	3.5"	3.5"		3.5"
RPA	#8	3"	3"	3"	3"	3"	3"
SPA5	#5	3"	3"	3"	3"		3"
RPA5	#5	3"	3"	3"	3"	3"	3"
SPA8N	#8	3"	3"	3"	3"		3"

DSX1 Area Luminaire - EPA

*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single DM19	2 @ 180 DM28	2 @ 90 DM29	3 @ 90 DM39	3 @ 120 DM32	4 @ 90 DM49
Mounting Type						
DSX1 with SPA	0.69	1.38	1.23	1.54	---	1.58
DSX1 with SPA5, SPA8N	0.70	1.40	1.30	1.66	---	1.68
DSX1 with RPA, RPA5	0.70	1.40	1.30	1.66	1.60	1.68
DSX1 with MA	0.83	1.66	1.50	2.09	2.09	2.09

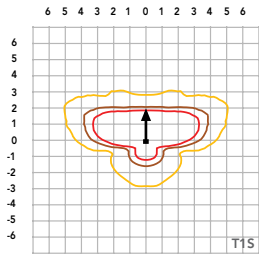
Photometric Diagrams

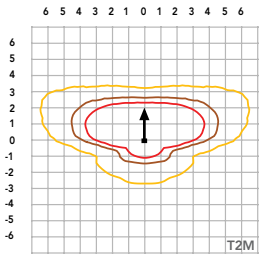
To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's homepage.

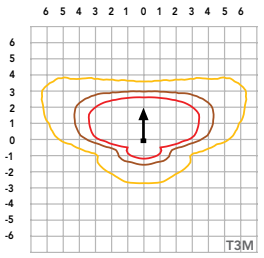
Isofootcandle plots for the DSX1 LED P9 40K 70CRI. Distances are in units of mounting height (25').

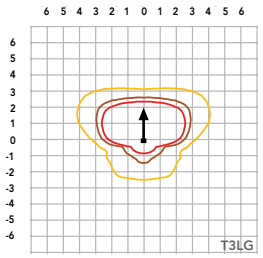
LEGEND

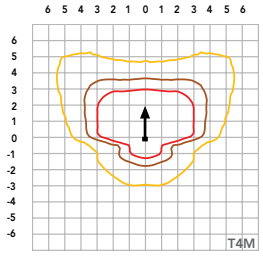
- 0.1 fc
- 0.5 fc
- 1.0 fc

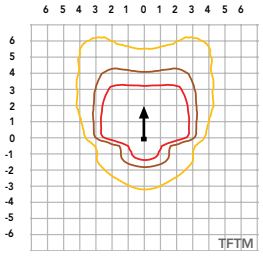


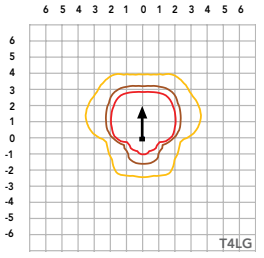


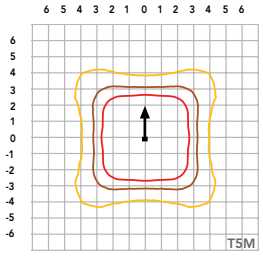


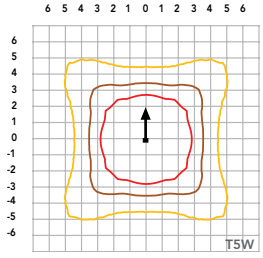


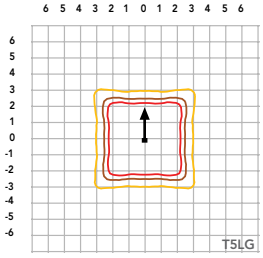


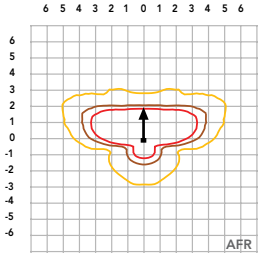


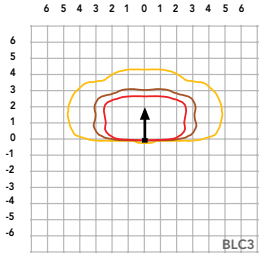


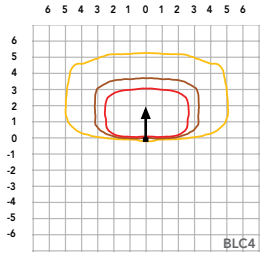


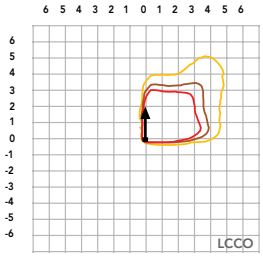


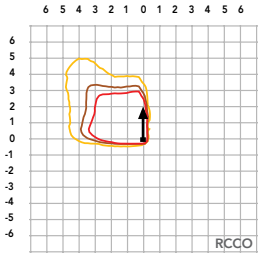












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Performance Data

Lumen Ambient Temperature (LAT) Multipliers

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

Ambient		Lumen Multiplier
0°C	32°F	1.04
5°C	41°F	1.04
10°C	50°F	1.03
15°C	50°F	1.02
20°C	68°F	1.01
25°C	**77°C**	**1.00**
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

Projected LED Lumen Maintenance

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

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

Operating Hours	Lumen Maintenance Factor
0	1.00
25,000	0.95
50,000	0.90
100,000	0.81

FAO Dimming Settings

FAO Position	% Wattage	% Lumen Output
8	100%	100%
7	93%	95%
6	80%	85%
5	66%	73%
4	54%	61%
3	41%	49%
2	29%	36%
1	15%	20%

*Note: Calculated values are based on original performance package data. When calculating new values for given FAO position, use maximum published values by package listed on specification sheet (input watts and lumens by optic type).

Electrical Load

	Performance Package	LED Count	Drive Current (mA)	Wattage	Current (A) 120V	208V	240V	277V	347V	480V
Forward Optics (Non-Rotated)	P1	30	530	51	0.42	0.24	0.21	0.18	0.15	0.11
	P2	30	700	68	0.56	0.33	0.28	0.24	0.20	0.14
	P3	30	1050	104	0.85	0.49	0.43	0.37	0.29	0.21
	P4	30	1250	125	1.03	0.60	0.52	0.45	0.36	0.26
	P5	30	1400	142	1.15	0.66	0.58	0.50	0.40	0.29
	P6	40	1250	167	1.38	0.79	0.69	0.60	0.48	0.34
	P7	40	1400	188	1.54	0.89	0.77	0.67	0.53	0.38
	P8	60	1100	216	1.80	1.04	0.90	0.78	0.62	0.45
	P9	60	1400	279	2.31	1.33	1.15	1.00	0.80	0.58
Rotated Optics (Requires L90 or R90)	P10	60	530	101	0.84	0.49	0.42	0.37	0.29	0.21
	P11	60	700	135	1.12	0.65	0.56	0.49	0.39	0.28
	P12	60	1050	206	1.72	0.99	0.86	0.74	0.59	0.43
	P13	60	1400	279	2.30	1.33	1.15	1.00	0.79	0.57

LED Color Temperature / Color Rendering Multipliers

	70 CRI		80CRI		90CRI	
	Lumen Multiplier	Availability	Lumen Multiplier	Availability	Lumen Multiplier	Availability
5000K	102%	Standard	92%	Extended lead-time	71%	(see note)
4000K	100%	Standard	92%	Extended lead-time	67%	(see note)
3500K	100%	(see note)	90%	Extended lead-time	63%	(see note)
3000K	96%	Standard	87%	Extended lead-time	61%	(see note)
2700K	94%	(see note)	85%	Extended lead-time	57%	(see note)

Note: Some LED types are available as per special request. Contact Technical Support for more information.

Motion Sensor Default Settings

Option	Unoccupied Dimmed Level	High Level (when occupied)	Phototcell Operation	Dwell Time	Ramp-up Time	Dimming Fade Rate
PIR	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min
NLTAIR2 PIRHN	30%	100%	Enabled @ 2FC	7.5 min	3 sec	5 min

Controls Options

Nomenclature	Description	Functionality	Primary control device	Notes
FAO	Field adjustable output device installed inside the luminaire; wired to the driver dimming leads.	Allows the luminaire to be manually dimmed, effectively trimming the light output.	FAO device	Cannot be used with other controls options that need the 0-10V leads
DS (not available on DSX0)	Drivers wired independently for 50/50 luminaire operation	The luminaire is wired to two separate circuits, allowing for 50/50 operation.	Independently wired drivers	Requires two separately switched circuits. Consider nLight AIR as a more cost effective alternative.
PER5 or PER7	Twist-lock photocell receptacle	Compatible with standard twist-lock photocells for dusk to dawn operation, or advanced control nodes that provide 0-10V dimming signals.	Twist-lock photocells such as DLL Elite or advanced control nodes such as ROAM.	Pins 4 & 5 to dimming leads on driver, Pins 6 & 7 are capped inside luminaire. Cannot be used with other controls options that need the 0-10V leads.
PIR	Motion sensor with integral photocell. Sensor suitable for 8' to 40' mounting height.	Luminaires dim when no occupancy is detected.	Acuity Controls rSBG	Cannot be used with other controls options that need the 0-10V leads.
NLTAIR2 PIRHN	nLight AIR enabled luminaire for motion sensing, photocell and wireless communication.	Motion and ambient light sensing with group response. Scheduled dimming with motion sensor over-ride when wirelessly connected to the nLight Eclypse.	nLight Air rSBG	nLight AIR sensors can be programmed and commissioned from the ground using the CIAIRity Pro app. Cannot be used with other controls options that need the 0-10V leads.
BL30 or BL50	Integrated bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output	BLC device provides input to 0-10V dimming leads on all drivers providing either 100% or dimmed (30% or 50%) control by a secondary circuit	BLC UVOLT1	BLC device is powered off the 0-10V dimming leads, thus can be used with any input voltage from 120 to 480V

Performance Data

Lumen Output

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

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	30	530	T1S	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
				T2M	7,203	1	0	3	142	7,507	2	0	3	147	7,653	2	0	3	150
				T3M	7,287	1	0	3	143	7,594	1	0	3	149	7,742	1	0	3	152
				T3LG	6,509	1	0	1	128	6,783	1	0	1	133	6,916	1	0	1	136
				T4M	7,395	1	0	3	145	7,707	1	0	3	151	7,857	1	0	3	154
				T4LG	6,726	1	0	1	132	7,010	1	0	1	138	7,146	1	0	1	140
				TFTM	7,446	1	0	3	146	7,760	1	0	3	152	7,912	1	0	3	155
				T5M	7,609	3	0	2	149	7,930	3	0	2	156	8,084	3	0	2	159
				T5W	7,732	3	0	2	152	8,058	4	0	2	158	8,215	4	0	2	161
				T5LG	7,631	3	0	1	150	7,953	3	0	1	156	8,108	3	0	1	159
				BLC3	5,300	0	0	2	104	5,524	0	0	2	109	5,631	0	0	2	111
				BLC4	5,474	0	0	3	108	5,705	0	0	3	112	5,816	0	0	3	114
				RCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				LCCO	5,348	0	0	2	105	5,573	0	0	2	109	5,682	0	0	2	112
				AFR	7,776	1	0	2	153	8,104	1	0	2	159	8,262	1	0	2	162
P2	68W	30	700	T1S	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
				T2M	9,260	2	0	3	137	9,651	2	0	3	142	9,839	2	0	3	145
				T3M	9,368	2	0	3	138	9,763	2	0	3	144	9,953	2	0	3	147
				T3LG	8,368	1	0	2	123	8,721	1	0	2	129	8,891	1	0	2	131
				T4M	9,507	2	0	3	140	9,909	2	0	3	146	10,102	2	0	3	149
				T4LG	8,647	1	0	2	128	9,012	1	0	2	133	9,187	1	0	2	136
				TFTM	9,573	2	0	3	141	9,977	2	0	3	147	10,172	2	0	3	150
				T5M	9,782	4	0	2	144	10,195	4	0	2	150	10,393	4	0	2	153
				T5W	9,940	4	0	2	147	10,360	4	0	2	153	10,562	4	0	2	156
				T5LG	9,810	3	0	1	145	10,224	3	0	1	151	10,423	3	0	1	154
				BLC3	6,814	0	0	2	101	7,101	0	0	2	105	7,240	0	0	2	107
				BLC4	7,038	0	0	3	104	7,334	0	0	3	108	7,477	0	0	3	110
				RCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				LCCO	6,875	1	0	2	101	7,165	1	0	2	106	7,305	1	0	2	108
				AFR	9,997	1	0	2	147	10,418	1	0	2	154	10,621	1	0	2	157
P3	102W	30	1050	T1S	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147
				T2M	13,055	2	0	3	128	13,605	2	0	3	133	13,871	2	0	3	136
				T3M	13,206	2	0	4	129	13,763	2	0	4	135	14,031	2	0	4	137
				T3LG	11,797	2	0	2	115	12,294	2	0	2	120	12,534	2	0	2	123
				T4M	13,403	2	0	4	131	13,968	2	0	4	137	14,241	2	0	4	139
				T4LG	12,190	2	0	2	119	12,704	2	0	2	124	12,952	2	0	2	127
				TFTM	13,496	2	0	4	132	14,065	2	0	4	138	14,339	2	0	4	140
				T5M	13,790	4	0	2	135	14,371	4	0	2	141	14,652	4	0	2	143
				T5W	14,013	4	0	3	137	14,605	4	0	3	143	14,889	4	0	3	146
				T5LG	13,830	3	0	2	135	14,413	3	0	2	141	14,694	3	0	2	144
				BLC3	9,606	0	0	2	94	10,011	0	0	2	98	10,206	0	0	2	100
				BLC4	9,921	0	0	3	97	10,340	0	0	3	101	10,541	0	0	3	103
				RCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				LCCO	9,692	1	0	2	95	10,101	1	0	2	99	10,298	1	0	2	101
				AFR	14,093	2	0	2	138	14,687	2	0	2	144	14,973	2	0	2	147

Performance Data

Lumen Output

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

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P4	124W	30	1250	T1S	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
				T2M	15,207	3	0	4	123	15,849	3	0	4	128	16,158	3	0	4	130
				T3M	15,383	2	0	4	124	16,032	2	0	4	129	16,345	2	0	4	132
				T3LG	13,742	2	0	2	111	14,321	2	0	2	116	14,600	2	0	2	118
				T4M	15,613	2	0	4	126	16,272	2	0	4	131	16,589	2	0	4	134
				T4LG	14,200	2	0	2	115	14,799	2	0	2	119	15,087	2	0	2	122
				TFTM	15,721	2	0	4	127	16,384	2	0	4	132	16,703	2	0	4	135
				T5M	16,063	4	0	2	130	16,741	4	0	2	135	17,067	4	0	2	138
				T5W	16,324	5	0	3	132	17,013	5	0	3	137	17,344	5	0	3	140
				T5LG	16,110	3	0	2	130	16,790	4	0	2	135	17,117	4	0	2	138
				BLC3	11,190	0	0	3	90	11,662	0	0	3	94	11,889	0	0	3	96
				BLC4	11,557	0	0	3	93	12,044	0	0	3	97	12,279	0	0	4	99
				RCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				LCCO	11,291	1	0	3	91	11,767	1	0	3	95	11,996	1	0	3	97
				AFR	16,416	2	0	3	132	17,109	2	0	3	138	17,442	2	0	3	141
P5	138W	30	1400	T1S	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
				T2M	16,723	3	0	4	121	17,428	3	0	4	126	17,768	3	0	4	129
				T3M	16,917	3	0	4	122	17,630	3	0	4	128	17,974	3	0	4	130
				T3LG	15,111	2	0	2	109	15,749	2	0	2	114	16,055	2	0	2	116
				T4M	17,169	3	0	5	124	17,893	3	0	5	130	18,242	3	0	5	132
				T4LG	15,615	2	0	2	113	16,274	2	0	2	118	16,591	2	0	2	120
				TFTM	17,288	2	0	4	125	18,017	2	0	5	130	18,368	3	0	5	133
				T5M	17,664	5	0	3	128	18,410	5	0	3	133	18,768	5	0	3	136
				T5W	17,951	5	0	3	130	18,708	5	0	3	135	19,073	5	0	3	138
				T5LG	17,716	4	0	2	128	18,463	4	0	2	134	18,823	4	0	2	136
				BLC3	12,305	0	0	3	89	12,824	0	0	3	93	13,074	0	0	3	95
				BLC4	12,709	0	0	4	92	13,245	0	0	4	96	13,503	0	0	4	98
				RCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				LCCO	12,416	1	0	3	90	12,940	1	0	3	94	13,192	1	0	3	95
				AFR	18,052	2	0	3	131	18,814	2	0	3	136	19,180	2	0	3	139
P6	165W	40	1250	T1S	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135
				T2M	19,482	3	0	4	118	20,303	3	0	4	123	20,699	3	0	4	125
				T3M	19,708	3	0	5	119	20,539	3	0	5	124	20,939	3	0	5	127
				T3LG	17,604	2	0	2	107	18,347	2	0	2	111	18,704	2	0	2	113
				T4M	20,001	3	0	5	121	20,845	3	0	5	126	21,251	3	0	5	129
				T4LG	18,191	2	0	2	110	18,959	2	0	2	115	19,328	2	0	2	117
				TFTM	20,140	3	0	5	122	20,989	3	0	5	127	21,398	3	0	5	129
				T5M	20,579	5	0	3	125	21,447	5	0	3	130	21,865	5	0	3	132
				T5W	20,912	5	0	3	127	21,795	5	0	3	132	22,219	5	0	3	134
				T5LG	20,638	4	0	2	125	21,509	4	0	2	130	21,928	4	0	2	133
				BLC3	14,335	0	0	3	87	14,940	0	0	3	90	15,231	0	0	3	92
				BLC4	14,805	0	0	4	90	15,430	0	0	4	93	15,731	0	0	4	95
				RCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				LCCO	14,464	1	0	3	88	15,074	1	0	3	91	15,368	1	0	3	93
				AFR	21,031	2	0	3	127	21,918	2	0	3	133	22,345	2	0	3	135

Performance Data

Lumen Output

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

Forward Optics

Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P7	184W	40	1400	T1S	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
				T2M	21,066	3	0	4	114	21,955	3	0	4	119	22,383	3	0	4	121
				T3M	21,311	3	0	5	116	22,210	3	0	5	120	22,642	3	0	5	123
				T3LG	19,036	2	0	2	103	19,839	2	0	3	108	20,226	2	0	3	110
				T4M	21,628	3	0	5	117	22,541	3	0	5	122	22,980	3	0	5	125
				T4LG	19,671	2	0	2	107	20,501	2	0	3	111	20,900	2	0	3	113
				TFTM	21,778	3	0	5	118	22,697	3	0	5	123	23,139	3	0	5	125
				T5M	22,252	5	0	3	121	23,191	5	0	3	126	23,643	5	0	3	128
				T5W	22,613	5	0	3	123	23,567	5	0	4	128	24,027	5	0	4	130
				T5LG	22,317	4	0	2	121	23,258	4	0	2	126	23,712	4	0	2	129
				BLC3	15,501	0	0	3	84	16,155	0	0	4	88	16,470	0	0	4	89
				BLC4	16,010	0	0	4	87	16,685	0	0	4	90	17,010	0	0	4	92
				RCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				LCCO	15,641	1	0	3	85	16,301	1	0	3	89	16,619	1	0	3	90
				AFR	22,741	2	0	3	123	23,700	2	0	3	129	24,162	3	0	3	131
P8	216W	60	1100	T1S	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
				T2M	26,587	3	0	5	123	27,709	3	0	5	128	28,249	3	0	5	131
				T3M	26,895	3	0	5	125	28,030	3	0	5	130	28,576	3	0	5	132
				T3LG	24,025	3	0	3	111	25,038	3	0	3	116	25,526	3	0	3	118
				T4M	27,296	3	0	5	127	28,448	3	0	5	132	29,002	3	0	5	134
				T4LG	24,826	3	0	3	115	25,873	3	0	3	120	26,378	3	0	3	122
				TFTM	27,485	3	0	5	127	28,645	3	0	5	133	29,203	3	0	5	135
				T5M	28,084	5	0	4	130	29,269	5	0	4	136	29,839	5	0	4	138
				T5W	28,539	5	0	4	132	29,743	5	0	4	138	30,323	5	0	4	141
				T5LG	28,165	4	0	2	131	29,354	4	0	2	136	29,926	4	0	2	139
				BLC3	19,563	0	0	4	91	20,388	0	0	4	94	20,786	0	0	4	96
				BLC4	20,205	0	0	5	94	21,057	0	0	5	98	21,468	0	0	5	99
				RCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				LCCO	19,740	1	0	4	91	20,572	1	0	4	95	20,973	1	0	4	97
				AFR	28,701	3	0	3	133	29,912	3	0	4	139	30,495	3	0	4	141
P9	277W	60	1400	T1S	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134
				T2M	32,255	3	0	5	116	33,616	3	0	5	121	34,271	3	0	5	124
				T3M	32,629	3	0	5	118	34,006	3	0	5	123	34,668	3	0	5	125
				T3LG	29,146	3	0	3	105	30,376	3	0	4	110	30,968	3	0	4	112
				T4M	33,116	3	0	5	120	34,513	3	0	5	125	35,185	3	0	5	127
				T4LG	30,119	3	0	3	109	31,389	3	0	4	113	32,001	3	0	4	116
				TFTM	33,345	3	0	5	120	34,751	3	0	5	125	35,429	3	0	5	128
				T5M	34,071	5	0	4	123	35,509	5	0	4	128	36,201	5	0	4	131
				T5W	34,624	5	0	4	125	36,084	5	0	4	130	36,788	5	0	4	133
				T5LG	34,170	5	0	3	123	35,612	5	0	3	129	36,306	5	0	3	131
				BLC3	23,734	0	0	4	86	24,735	0	0	4	89	25,217	0	0	4	91
				BLC4	24,513	0	0	5	88	25,547	0	0	5	92	26,045	0	0	5	94
				RCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				LCCO	23,948	1	0	4	86	24,958	1	0	4	90	25,445	1	0	4	92
				AFR	34,819	3	0	4	126	36,288	3	0	4	131	36,996	3	0	4	134

Performance Data

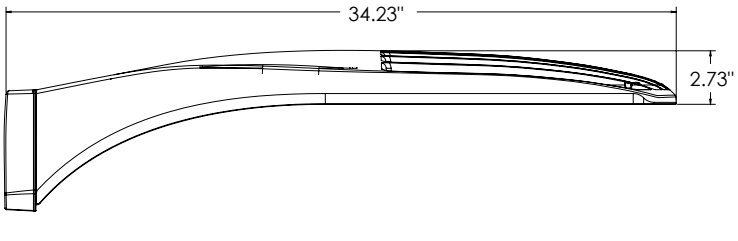
Lumen Output

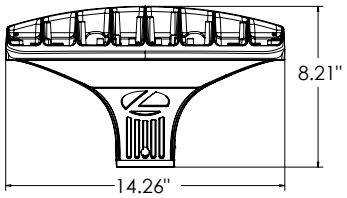
Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of configurations shown within the tolerances described within LM-79.
Contact factory for performance data on any configurations not shown here.

Rotated Optics

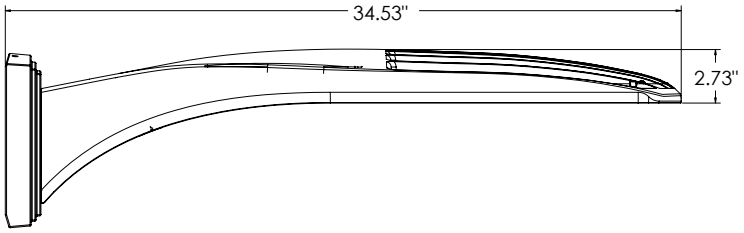
Performance Package	System Watts	LED Count	Drive Current (mA)	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
					Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P10	101W	60	530	T1S	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
				T2M	14,047	4	0	4	139	14,640	4	0	4	145	14,925	4	0	4	147
				T3M	14,208	4	0	4	140	14,807	4	0	4	146	15,096	4	0	4	149
				T3LG	12,693	3	0	3	125	13,229	3	0	3	131	13,487	3	0	3	133
				T4M	14,420	4	0	4	142	15,028	4	0	4	148	15,321	4	0	4	151
				T4LG	13,115	3	0	3	129	13,668	3	0	3	135	13,934	3	0	3	138
				TFTM	14,522	4	0	4	143	15,134	4	0	4	149	15,429	4	0	4	152
				T5M	14,836	4	0	2	146	15,462	4	0	2	153	15,763	4	0	2	156
				T5W	15,076	4	0	3	149	15,712	5	0	3	155	16,019	5	0	3	158
				T5LG	14,879	3	0	2	147	15,507	3	0	2	153	15,809	3	0	2	156
				BLC3	10,335	3	0	3	102	10,771	4	0	4	106	10,981	4	0	4	108
				BLC4	10,674	4	0	4	105	11,124	4	0	4	110	11,341	4	0	4	112
				RCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				LCCO	10,429	1	0	2	103	10,869	1	0	2	107	11,080	1	0	2	109
				AFR	15,164	3	0	3	150	15,803	3	0	3	156	16,112	3	0	3	159
P11	135W	60	700	T1S	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
				T2M	18,005	4	0	4	133	18,765	4	0	4	139	19,131	4	0	4	142
				T3M	18,211	4	0	4	135	18,980	4	0	4	141	19,350	4	0	4	143
				T3LG	16,270	3	0	3	121	16,957	3	0	3	126	17,287	4	0	4	128
				T4M	18,483	4	0	4	137	19,263	5	0	5	143	19,638	5	0	5	146
				T4LG	16,810	3	0	3	125	17,519	3	0	3	130	17,861	3	0	3	132
				TFTM	18,614	4	0	4	138	19,399	4	0	4	144	19,777	5	0	5	147
				T5M	19,017	5	0	3	141	19,819	5	0	3	147	20,205	5	0	3	150
				T5W	19,325	5	0	3	143	20,140	5	0	3	149	20,533	5	0	3	152
				T5LG	19,072	4	0	2	141	19,876	4	0	2	147	20,264	4	0	2	150
				BLC3	13,247	4	0	4	98	13,806	4	0	4	102	14,075	4	0	4	104
				BLC4	13,682	4	0	4	101	14,259	4	0	4	106	14,537	4	0	4	108
				RCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				LCCO	13,367	1	0	3	99	13,931	1	0	3	103	14,203	1	0	3	105
				AFR	19,437	4	0	4	144	20,257	4	0	4	150	20,651	4	0	4	153
P12	206W	60	1050	T1S	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
				T2M	25,436	5	0	5	124	26,509	5	0	5	129	27,025	5	0	5	131
				T3M	25,727	5	0	5	125	26,812	5	0	5	130	27,335	5	0	5	133
				T3LG	22,984	4	0	4	112	23,954	4	0	4	116	24,421	4	0	4	119
				T4M	26,110	5	0	5	127	27,212	5	0	5	132	27,742	5	0	5	135
				T4LG	23,747	4	0	4	115	24,749	4	0	4	120	25,231	4	0	4	123
				TFTM	26,295	5	0	5	128	27,404	5	0	5	133	27,938	5	0	5	136
				T5M	26,864	5	0	4	130	27,997	5	0	4	136	28,543	5	0	4	139
				T5W	27,299	5	0	4	133	28,451	5	0	4	138	29,006	5	0	4	141
				T5LG	26,942	4	0	2	131	28,078	4	0	2	136	28,626	4	0	2	139
				BLC3	18,714	4	0	4	91	19,504	4	0	4	95	19,884	4	0	4	97
				BLC4	19,327	5	0	5	94	20,143	5	0	5	98	20,535	5	0	5	100
				RCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				LCCO	18,883	1	0	4	92	19,680	1	0	4	96	20,064	1	0	4	97
				AFR	27,457	4	0	4	133	28,616	4	0	4	139	29,174	4	0	4	142
P13	276W	60	1400	T1S	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133
				T2M	31,900	5	0	5	116	33,246	5	0	5	121	33,894	5	0	5	123
				T3M	32,265	5	0	5	117	33,626	5	0	5	122	34,282	5	0	5	124
				T3LG	28,826	4	0	4	105	30,042	4	0	4	109	30,628	4	0	4	111
				T4M	32,746	5	0	5	119	34,128	5	0	5	124	34,793	5	0	5	126
				T4LG	29,782	4	0	4	108	31,039	4	0	4	113	31,644	5	0	4	115
				TFTM	32,978	5	0	5	120	34,369	5	0	5	125	35,039	5	0	5	127
				T5M	33,692	5	0	4	122	35,113	5	0	4	127	35,797	5	0	4	130
				T5W	34,238	5	0	4	124	35,682	5	0	4	129	36,378	5	0	4	132
				T5LG	33,789	5	0	3	122	35,215	5	0	3	128	35,901	5	0	3	130
				BLC3	23,471	5	0	5	85	24,461	5	0	5	89	24,937	5	0	5	90
				BLC4	24,240	5	0	5	88	25,262	5	0	5	92	25,755	5	0	5	93
				RCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				LCCO	23,683	1	0	4	86	24,682	1	0	4	89	25,163	1	0	4	91
				AFR	34,436	5	0	5	125	35,889	5	0	5	130	36,588	5	0	5	133

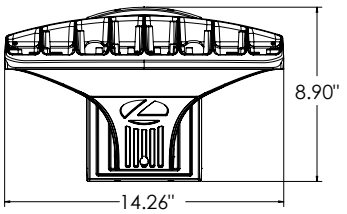
Dimensions



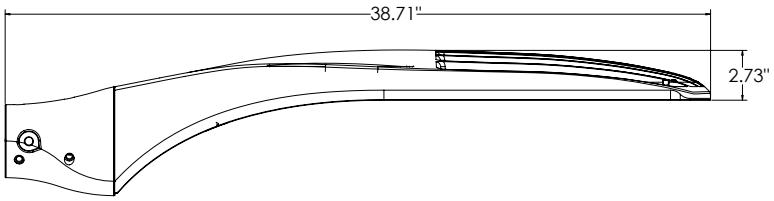


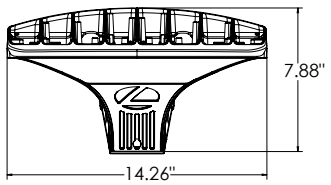
DSX1 with RPA, RPA5, SPA5, SPA8N mount
Weight: 36 lbs





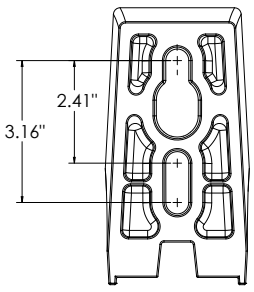
DSX1 with WBA mount
Weight: 38 lbs



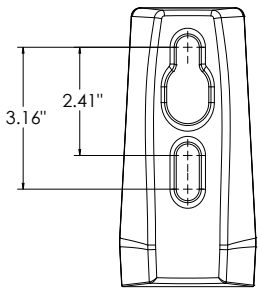


DSX1 with MA mount
Weight: 39 lbs

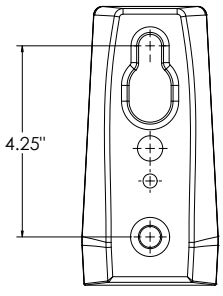
SPA (STANDARD ARM)



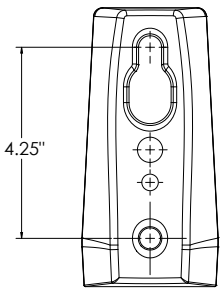
RPA



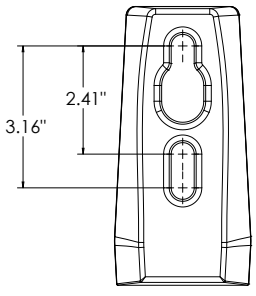
SPA5



RPA5



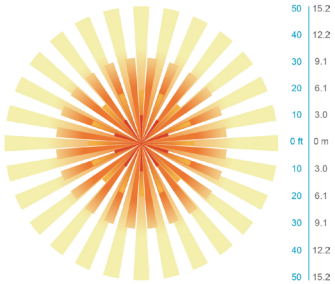
SPA8N



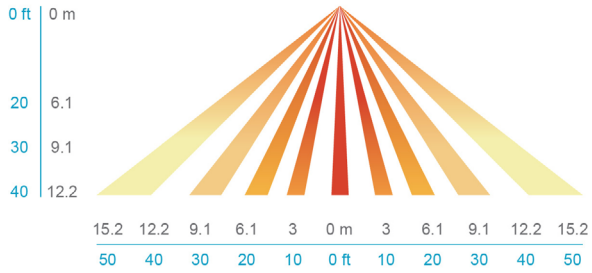
nLight Control - Sensor Coverage and Settings

nLight Sensor Coverage Pattern

NLTAIR2 PIRHN



Top



Side

FEATURES & SPECIFICATIONS

INTENDED USE

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

CONSTRUCTION

Single-piece die-cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convective cooling. Modular design allows for ease of maintenance and future light engine upgrades. The LED drivers are mounted in direct contact with the casting to promote low operating temperature and long life. Housing driver compartment is completely sealed against moisture and environmental contaminants (IP66). Vibration rated per ANSI C136.31 for 3G for SPA and MA. 1.5G for mountings RPA, RPA5, SPA5 and SPA8N. Low EPA (0.69 ft^2) for optimized pole wind loading.

FINISH

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

Coastal Construction (CCE)

Optional corrosion resistant construction is engineered with added corrosion protection in materials and/or pre-treatment of base material under super durable paint. Provides additional corrosion protection for applications near coastal areas. Finish is salt spray tested to over 5,000 hours per ASTM B117 with scribe rating of 10. Additional lead-times may apply.

OPTICS

Precision-molded proprietary silicone lenses are engineered for superior area lighting distribution, uniformity, and pole spacing. Light engines are available in standard 3000 K, 4000 K and 5000 K (70 CRI) configurations. 80CRI configurations are also available. The D-Series Size 1 has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

ELECTRICAL

Light engine configurations consist of high-efficacy LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L81/100,000 hours at 25°C). Class 1 electronic drivers are designed to have a power factor >90%, THD <20%, and an expected life of 100,000 hours with <1% failure rate. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

STANDARD CONTROLS

The DSX1 LED area luminaire has a number of control options. DSX Size 1, comes standard with 0-10V dimming drivers. Dusk to dawn controls can be utilized via optional NEMA twist-lock photocell receptacles. Integrated motion sensor with on-board photocells feature field-adjustable programing and are suitable for mounting heights up to 40 feet. Control option BL features a bi-level device that allows a second control circuit to switch all light engines to either 30% or 50% light output.

nLIGHT AIR CONTROLS

The DSX1 LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing and photocontrol functionality and is suitable for mounting heights up to 40 feet. Once commissioned using a smartphone and the easy-to-use CLAIRITY app, nLight AIR equipped luminaries can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclypse. Additional information about nLight Air can be found here.

INSTALLATION

Integral mounting arm allows for fast mounting using Lithonia standard #8 drilling and accommodates pole drilling's from 2.41 to 3.12" on center. The standard "SPA" option for square poles and the "RPA" option for round poles use the #8 drilling. For #5 pole drillings, use SPA5 or RPA5. Additional mountings are available including a wall bracket (WBA) and mast arm (MA) option that allows luminaire attachment to a 2 3/8" horizontal mast arm.

LISTINGS

UL listed to meet U.S. and Canadian standards. UL Listed for wet locations. Light engines are IP66 rated; luminaire is IP66 rated. Rated for -40ºC minimum ambient.

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

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

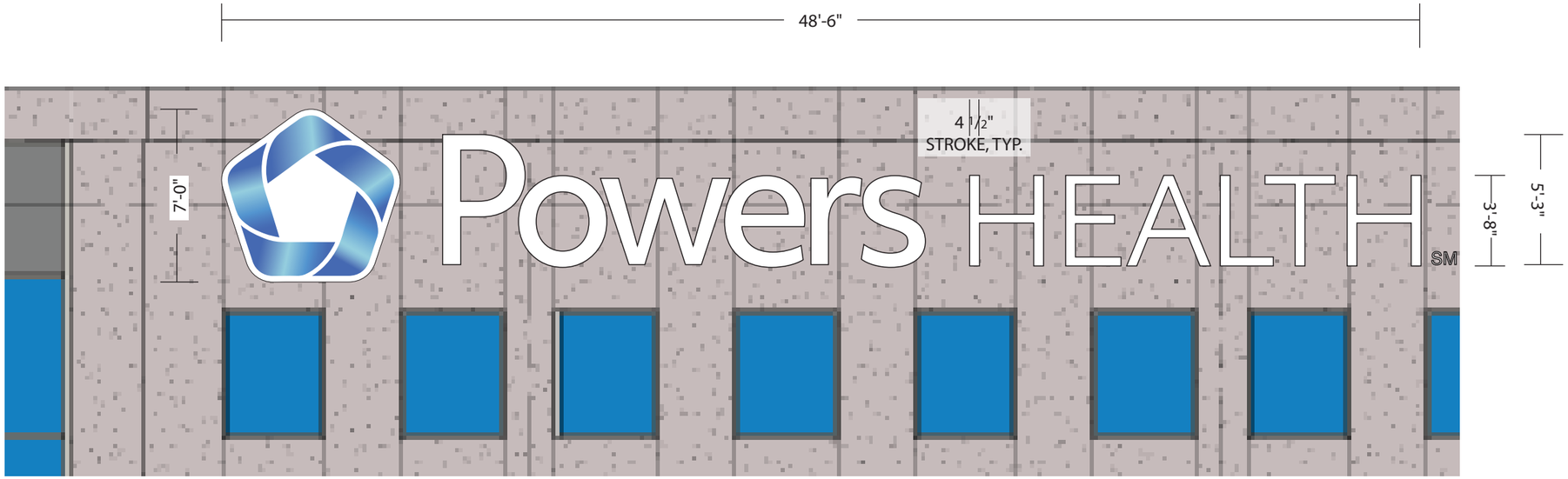
GOVERNMENT PROCUREMENT

BAA – Buy America(n) Act: Product with the BAA option qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product with the BAA option also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product with the BAA option also qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY

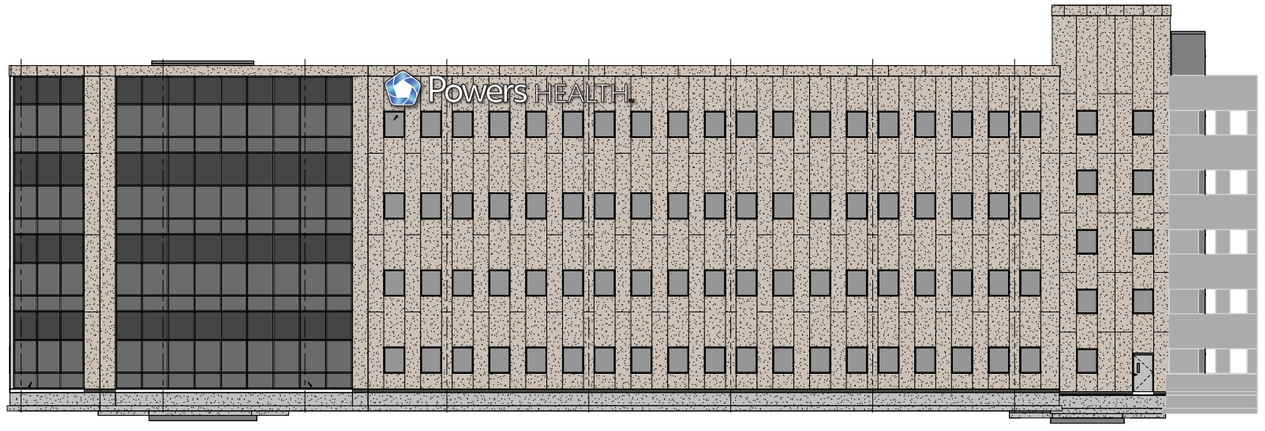
5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

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



ONE (1) NEW SET OF FACE LIT CHANNEL LETTERS / LED ILLUMINATED / REMOTE POWER SUPPLIES

SIGN / LOGO FACES= WHITE ACRYLIC
TRIMCAP = 2"WHITE WITH HURRICANE CLIPS
"SM" = 1/2" FCO PAINTED WHITE (NON ILLUMINATED)



1 SOUTH ELEVATION - NEW BUILDING

SCALE: 3/16" = 1'

LEGACY SIGN GROUP
7933 W Hwy 6, Westville, IN 46391

PROJECT: Powers Health
800 MacArthur Blvd
Munster, IN

REP: Shaun O'Brien 219-406-0218

DATE: 10-30-2024

DRAWING: SO-0573-1
REFERENCE:

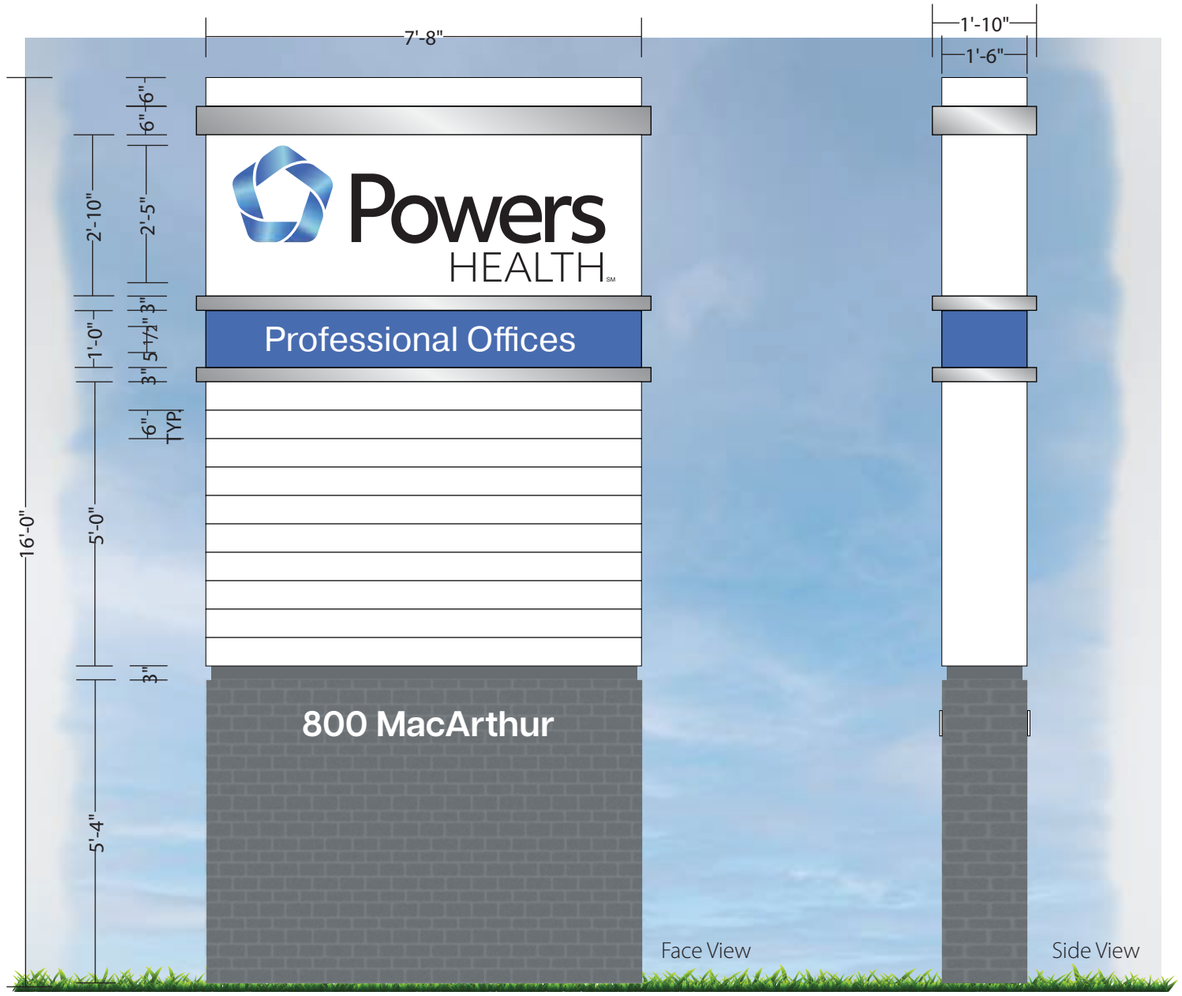
PROJECT #: 241107

REVISIONS:
1. Increase stroke of 'Health' copy from 3.5" to 4.5" 10-30-24 JB
2. revised elevation rendering 12-6-24 so

CLIENT APPROVAL: _____

By signing this print, I understand that I am accepting all aspects of this drawing. This includes artwork, specifications, dimensions, spelling and all other representations herein. I also understand that color representations on this print are approximate, and may not match actual colors produced.

UL CERTIFIED SAFETY-US E525640



Proposed

Proposed - night time view

REMOVE THREE FACES FROM EACH SIDE OF EXISTING D/F INTERNALLY LED ILLUMINATED SIGN, INSTALL TWO NEW ROUTED FACES AND ONE SET OF TEN (10) SLATS, AND REPAINT BRICK BASE, LOWER REVEAL AND FLAT CUT OUT ADDRESS COPY (IF PRESENT) IN FIELD

UPPER FACE = ROUTED, PAINTED SATIN MAP WHITE BACKED WITH PLEX WITH DIGITALLY PRINTED LOGO ELEMENT (SEE NOTED PMS COLORS) AND 3635-222 DAY/NIGHT VINYL (COPY)
MIDDLE FACE = ROUTED, PAINTED SATIN MAP TO MATCH PMS 7683C, BACKED WITH WHITE PLEX
LOWER FACE = REPAINT SATIN MAP WHITE AS REQUIRED AND INSTALL TEN (10) 6" SIGNCOMP SLATS
LOWER REVEAL, BASE = REPAINT SATIN MAP TO MATCH COOL GRAY 9C IN FIELD 9TO BE CONFIRMED). REPAINT ADDRESS COPY (IF PRESENT?) SATIN MAP WHITE

PANTONE® Pantone Cool Gray 9C
Base color (to be confirmed)

PANTONE® PMS 7683C
Darkest shade of logo gradient

PANTONE® PMS 629c
Lightest shade of logo gradient

! Survey Required !

Confirm face sizes (lower face in particular)

If lower face is less than 5' tall, increase can height to accomodate 10x 6" slats

SCALE: 3/8" = 1'

LEGACY SIGN GROUP
7933 W Hwy 6, Westville, IN 46391

PROJECT: Powers Health - MAC 800
800 MacArthur Blvd.
Munster, IN 46321

REP: Shaun O'Brien 219-406-0218

DATE: 10-30-2024

DRAWING: SO-0573-2

REFERENCE:

PROJECT #: 241107

REVISIONS:
1.

CLIENT APPROVAL: _____

UL CERTIFIED SAFETY-US E525640