



PLAN COMMISSION STAFF REPORT

To: Members of the Board of Zoning Appeals

From: Sergio Mendoza, Planning Director

Meeting Date: December 10, 2024

Agenda Item: PC 24-012

Application Type: Development Plan

Hearing: Public Hearing

Summary: Tony Gierczyk with E. Anthony Inc., for ONSI (Orthopedic Specialists of Northwest Indiana) is requesting a Development Plan approval for the exterior renovation of a 10,000 SF church building into a medical office facility, including site improvements to the parking lot, landscaping, and stormwater detention. (Applicants cites the proposed Development Plan is a "scale back" of the a previously approved Development Plan at 9900 Columbia Avenue. PC 23-029 - January 09, 2023).

Applicant: Tony Gierczyk with E. Anthony Inc., for OSNI (Orthopedic Specialist of Northwest Indiana)

Property Address: 9900 Columbia Avenue

Current Zoning: CD-4B General Urban-B Character District

Adjacent Zoning:
North: CD-4B General Urban-B Character District
South: SD-PUD Planned Unit Development Special District
East: CD-4B General Urban-B Character District
West: CD-4B General Urban-B Character District

Action Requested: Petitioner is seeking Approval of proposed Developmental Plan

Actions Required: Review of Development Plan compliance and Approved BZA Variances

- Attachments:**
- | | |
|---------------------------------|-----------------------------------|
| 1. Application - page 8 | 5. Lighting Plan - page 21-22 |
| 2. Alta Survey - page 15 | 6. Civil Plan - page 29 |
| 3. Architecture Plans - page 16 | 7. Signage Plan update - page 45 |
| 4. Landscape Plan – Page 20 | 8. Lighting Plan update - page 46 |

PROJECT SITE



Image 1 Subject Property.

1005 Ridge Road • Munster, IN 46321 • (219) 836-8810 • Police/Fire Emergencies 911
Police Non-Emergency (219) 836-6600 • Fire Non-Emergency (219) 836-6960
www.munster.org

PROJECT BRIEFING

Tony Gierczyk with E. Anthony Inc., for ONSI (Orthopedic Specialists of Northwest Indiana) is representing OSNI (Orthopedic Specialist of Northwest Indiana) Dyer & Associates, LLC (Sunil Dedhia, MD). OSNI has interest in the renovation of 9900 Colombia Avenue, the current home of The Gate Church (see Image 1).

The proposed renovation and expansion are planned for in two phases. In phase 1 OSNI is proposing to renovate the existing 9,844 SF religious use structure into a medical and office facility, expand the existing parking facility to accommodate 63 parking spaces, including four ADA parking spaces; from the required 46 parking spaces, including 3 ADA parking spaces (Medical = 5.7 per 1,000SF floor area). Other site improvements include a half-acre off-site detention area to manage 58% lot coverage runoff (2.69 acres/ 1.57 acre impervious).

OSNI plans to accomplish the proposed renovation and site improvements through compliance with the character based zoning code and granted Developmental Standards Variances approvals for building setback, parking locations, screening, entrance location, and sidewalk requirement.

PROPOSED SITE PLAN

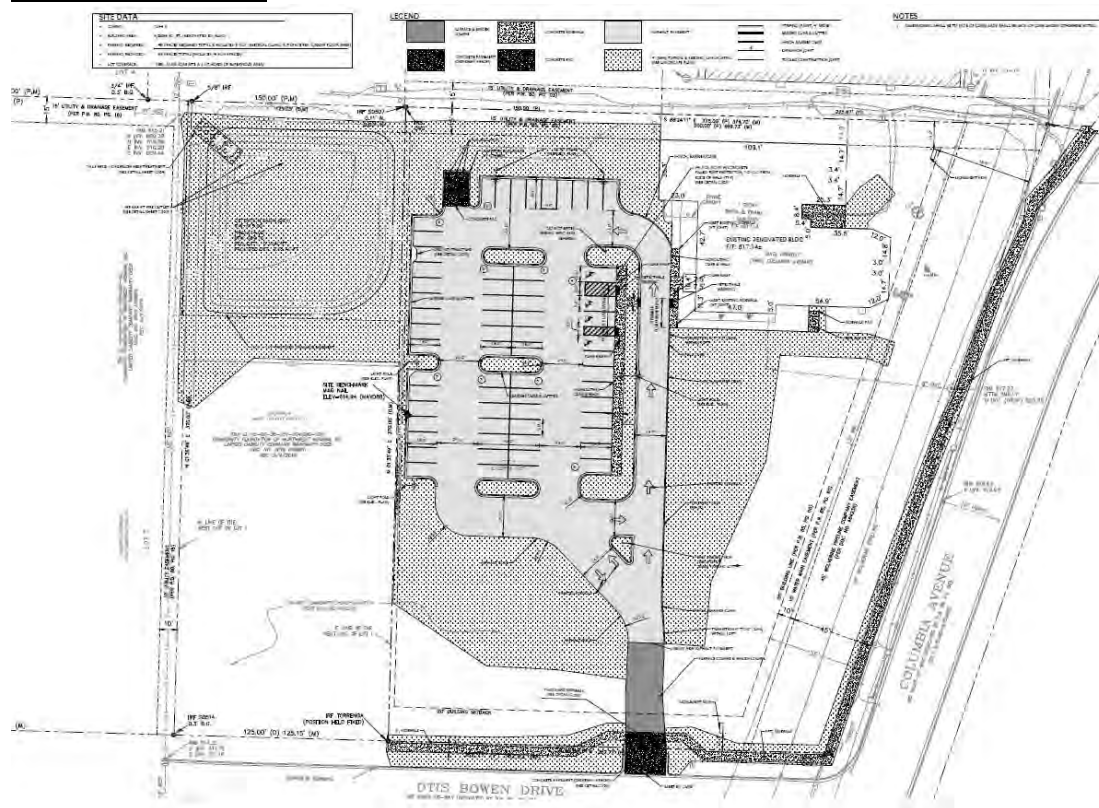


Image 2 Proposed Site Improvements.

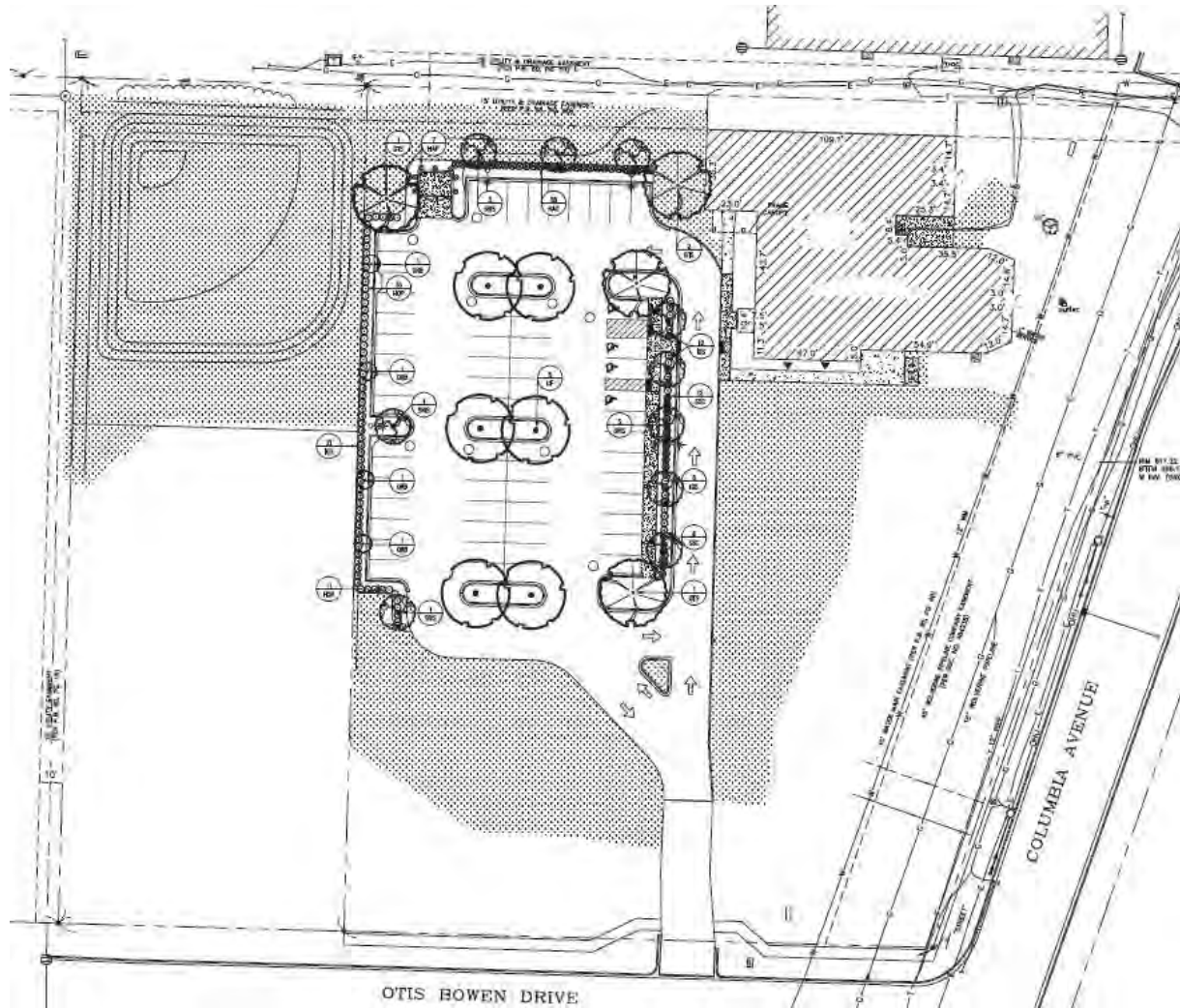


Image 2 Proposed Landscape.

The Munster Character Based Zoning codes from which the petition has received variances from are:

- 1.) 26-6.405. A-7 DISTRICT STANDARDS, Setbacks-Principal Building, Principal frontage and Secondary Frontage**
- 2.) 26.6.405. A-7 DISTRICT STANDARDS, Building Standards (continued) Entrances**
- 3.) 26-6.405. A-7 DISTRICT STANDARDS, Vehicular Parking Requirements, Off-street Parking Location**
- 4.) 26.6.405. A-7 DISTRICT STANDARDS, Screens, Types of Screens (Enhanced Hedge), Specific Standards (Where Screen is Required and Permitted Screen Type)**
- 5.) 26-6.405. S. 2. DISTRICT STANDARDS, Streetscape Repairs, Replacement & Improvements**

DEVELOPMENT PLAN STANDARDS REQUIREMENTS.**SECTION 26-6.804. G. 5. Applicability; Types of Site Plans. (MZC pg. 382)**

a. In all Zoning Districts other than Districts CD-3, CD-3.R1, CD-3.R2, and CD-3.R3, Site Plan approval from either the Plan Commission or the Zoning Administrator, as applicable under paragraph i or ii below, must be obtained:

i. from the Plan Commission prior to any of the following and for any plan or proposal pursuant to which any of the following is to be erected, Developed, re-Developed, Improved, Substantially Modified, or occur:

I. a Structure other than a Single-Family Detached Dwelling or Two-Family Detached Dwelling;

II. a Parking Area or Parking Lot;

V. any Use of vacant land;

VIII. a change in Use that will affect the characteristics or impact to the site or the Town with respect to traffic, access, drainage, utilities, or Town services, as determined by the Planning Director;

IX. Facade improvements for which a Building Permit is required and which affect greater than fifty percent (50%) of any street-facing Facade, excluding Ordinary Maintenance and Repair;

ii. from the Zoning Administrator prior to any of the following and for any plan or proposal pursuant to which any of the following is to be erected, Developed, re-Developed, Improved, modified, or occur:

I. any change of Use of any part of an existing Building other than a change of Use described in Section 26-6.804.G.5.a.i; or

II. any Alteration or modification to a parcel of land, such as changes to parking layout, Driveways, landscaped areas, Screening, Wall, or fences, or public walkways other than those described in Sections 26-6.804.G.5.a.i.; or

III. any modification to a Building or other Structure other than Ordinary Maintenance or Repair or a Substantial Modification.

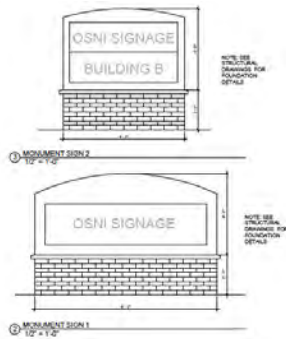
STAFF FINDINGS and RECOMMENDATION

In review of the Development Plan Application and supporting documents staff is requesting additional information regarding the lighting plan to include pole detail and head type. As well as proposed sign package. The applicant has submitted additional information regarding site lighting plan and monument signage.

Staff is unclear if the monument sign plan is current because the plans identify an expanded parking lot and future phase 2 of a building. The applicant should provide clarification on the monument plan submitted, one or two monument signs. The monument sign specs submitted appear to meet the zoning standards of 6' H max and 18 SF sign area. Sign material has not been identified and may require a Developmental Standards Variance upon review of a submitted sign permit application.

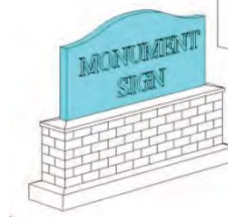
In addition, wall signage will need clarification regarding quantity, size, and material. Additional information may require a Developmental Standards Variance upon review of a submitted sign permit application. More particularly where internal lit logo over existing cross is referenced.

Proposed Monument Sign(s)



Monument Sign Code

Dimensions	
Quantity (max)	1 per Frontage
Area (max)	18 sf
Height (max)	6 ft, including the base
Letter Height	max 12 in.



Additional Standards

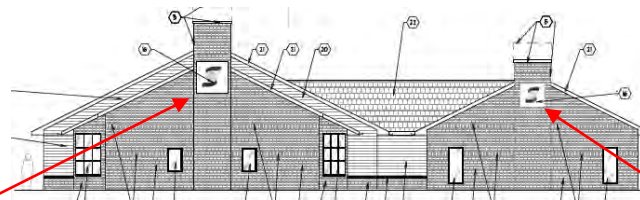
In addition to all other applicable standards, each Monument Sign allowed under this Article:

- shall be located within the 1st Lot Layer and shall be set back at least 10 feet from the public right-of-way;
- shall incorporate a supporting base that is at least 100% of the width of the Sign face at its widest point;
- shall have a supporting base constructed of authentic brick or stone of the same type, color, and scale or that used in the associated Building;
- shall have a Sign face made of authentic brick, stone, or solid metal or wood, with lettering, logo or branding made of solid metal or channel lettering;
- shall have a landscaped area composed of shrubs, flowers and planted groundcover that extends at least 3 feet beyond the supporting base of the Sign on all sides; and
- shall not be allowed if there is a Post Sign on the Lot.

	PERMITTED	PROVIDED
QUANTITY	1 PER/FRONTAGE 2 TOTAL	2 PROVIDED
HEIGHT	6 FT MAX	6 FT
AREA	18 SF	18 SF

Proposed Wall Signs

	PERMITTED	PROVIDED
QUANTITY	1 PER/FACADE 4 TOTAL	3 PROVIDED
AREA	1.5 SF / LINEAL FT FACADE NORTH FACADE: 164 SF WEST FACADE: 150 SF SOUTH FACADE: 169 SF EAST FACADE: 142 SF	- 32 SF 48 SF 37 SF



16 IN THIS AREA, ON EXISTING EXTERIOR TOWER TO REMAIN, EXISTING DECORATIVE MASONRY "CROSS" TO REMAIN. FURNISH AND INSTALL NEW ENCLOSURE AND BACK-LIT GRAPHIC TO COVER EXISTING CROSS.

Wall Sign Code



Dimensions	
Quantity (max)	1 per Facade or 1 per first floor business Frontage if multi-tenant Building
Area	1.5 sf per linear ft of Facade or business Frontage
Width	max 100% width of Facade
Depth / Projection	max 7 in
Clearance	min 7 ft

Facade: the exterior Wall of a Building that is set along a Frontage Line, excluding any Garage or other parking accommodations. See "Elevation", See **Illustration 26-6.901.F-1 (Facade)**.

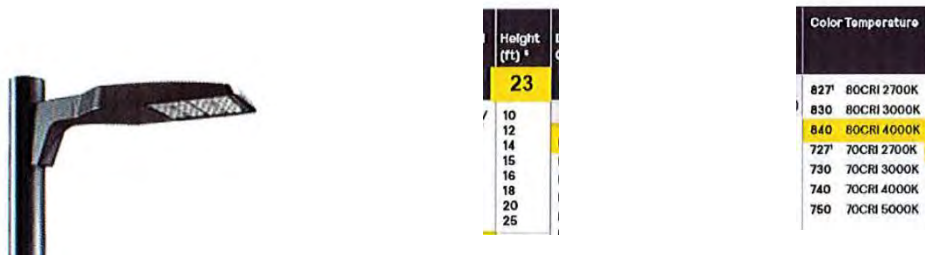
Frontage Line: the common line that separates the Private Frontage from the Public Frontage, typically at the Front Lot Line in cases where the entire Public Frontage is with the public right-of-way. See **Illustration 26-6.405.G-2 (Frontages and Lot Lines)**. On a Corner Lot, there are two Frontage Lines.

Front Lot Line: the boundary at the front of a Lot along the Thoroughfare right-of-way or Drive Aisle, as applicable. See **Illustration 26-6.901.F-5 (Front Lot Line)**.




In addition, staff has noted that the proposed light head type, color temperature and overall height do not comply with the zoning code standards. The proposed light heads are cobra style and not colonial, coach, or acorn style. The overall height is 23' and the required height is 20'. The color temperature is 4000K and code requires 3000K. The applicant will need to seek approvals through Developmental Standards Variances or comply with the town zoning code.

Staff recommends compliance with the Munster Character Based Zoning Code or see approval from the Board of Zoning Appeals to vary from the proposed lighting code.

Proposed Lighting



Lighting Code

LIGHTING TYPE
HEAD/LUMINAIRE TYPES
Colonial Head 
Coach Head 
Acorn Head 

2. **Lighting Standards or Poles.**
 - a. Lighting standards shall comply with **Table 26-6.405.Q-1 (Private Lighting Types)**.
 - b. A lighting standard shall be of a height and design consistent with the surrounding area Buildings but in no event higher than twenty feet (20').
 - c. Standards shall be located at distances of four times their height.
3. **Illumination.**
 - a. 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.
 - b. Illumination at all Lot Lines shall meet the standard of **Table 26-6.405.Q-2 (Private Lighting Standards)**.

TABLE 26-6.405.Q-2 (PRIVATE LIGHTING STANDARDS)

District	Min/Max Lighting Level at Property and Frontage Lines (in foot-candles)
CD-3, CD-3.R1, CD-3.R2, CD-3.R3	0 fc @ property line Adjacent to CD-3, CD-3.R1, CD-3.R2, CD-3.R3 Otherwise, 0-1.0 fc
CD-4.R4, CD-4.A & CD-4.B, CD-5 & SD-M	0 fc @ property line Adjacent to CD-3, CD-3.R1, CD-3.R2, CD-3.R3 Otherwise, 1.0-2.0 fc
SD-PUD	Per PUD Approved Standards

- c. Color temperature of lighting shall not exceed 3000K.

MOTION

The Plan Commission may consider the following motion:

Motion to APPROVE PC 24-012 Development Plan for 9900 Columbia Avenue with the condition that all lighting specs and signage comply with the character based zoning code, including all discussion and findings.



Petition PC 24 012

Date: _____

Application Fee: \$ _____

Sign Fee: \$ _____

Town of Munster Plan Commission Petition Application

OWNER INFORMATION:

Orthopaedic Specialists of Northwest Indiana LLC 219-924-3300
 Name of Owner Phone Number
730 45th St. Munster, IN - 46321 lwert@osni.org
 Street address, City, ST, ZIP Code Email address

APPLICANT OR PETITIONER INFORMATION (if different than above):

Edward A. Gierczyk 708-802-8230
 Name of Applicant/Petitioner Phone Number
E. ANTHONY INC.
19521 SPAIN-CREEK DR, UNIT F eag@eanthonyinc.com
 Street address, City, ST, ZIP Code Email address
TINLEY PARK, IL 60477

PROPERTY INFORMATION:

Business or Development Name (if applicable) CD4.B
Orthopaedic Specialists of Northwest Indiana
 Address of Property or Legal Description Current Zoning
9900 COLUMBIA AVE.

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:

Review of Revised Project Scope Previously Approved.
Scope of Development was reduced to current
requirements due to owner's revised needs for
the facility at this time. - Refer to attached
site & architectural plans for review.

Ridgeland Associates / Zenon Kurdziel 708-435-0300
 Name of Registered Engineer, Architect or Land Surveyor Phone Number
1 Riverside Dr., Riverside, IL. zenon@ridgelandassociates.com
 Street address, City, ST, ZIP Code Email address



Town of Munster Plan Commission Application Signature Page

I hereby authorize E. Anthony Inc. Edward Theriault to act on my behalf as my agent in this petition and to furnish, upon request, supplemental information in support of this petition application.

[Signature] _____ 8/30/24
Signature of Owner Date

[Signature] E. Anthony Inc. _____ 8/30/24
Signature of Applicant Date

REQUIRED ATTACHMENTS

Required Attachments for Plan Commission Applications

To ensure that adequate information is provided to the Plan Commission, please check off each of these items and provide documentation to the Community Development Department at the time of submittal of the application.

ALL APPLICATIONS	Included	N/A
Narrative statement describing project	/	
Property owner consent (Signature page)	/	
Proof of Ownership (e.g. copy of tax bill)		/
Current ALTA Survey		/
Vicinity Plan (A dimensioned drawing to scale of the planned building(s)/improvements in the context of the surrounding properties, including existing buildings and driveways at least one block in every direction)		/

The following pages list the additional attachments required for specific applications. Please refer to your type of petition request and provide the additional required attachments.

SUBDIVISION - PRELIMINARY PLAT	Included	N/A
Single-Family Residential Subdivision		/
Preliminary Plat		/
Engineering Plans		/
Storm Water Report		/
Commercial or Multi-Family Residential Subdivision		
Preliminary Plat		/
Engineering Plans		/
Storm Water Reports		/
Preliminary Development Plan containing:		/
Boundary identification		/
Fire hydrant locations		/
Accessory structures		/
Parking lot design		/
Utility location		/
Building footprints		/
Proposed curb cuts		/
Drainage/detention plans		/
Traffic circulation		/
Ingress/egress locations		/
Major topographic information		/
Infrastructure improvements		/

SUBDIVISION - FINAL PLAT	Included	N/A
Final Plat	/	
Engineering Plans	/	
Stormwater report	/	
Special Studies as required – see Site Plan Review Committee minutes		/

REZONING (including PLANNED UNIT DEVELOPMENT amendments)	Included	N/A
Preliminary Development Plan containing at a minimum:		/
Boundary Identification		/
Fire hydrant locations		/
Accessory structures		/
Parking lot design		/
Utility location		/
Building footprints		/
Proposed curb cuts		/
Drainage/detention plans		/
Traffic circulation		/
Ingress/egress locations		/
Major topographic information		/
Proposed Use table		/
Stormwater report		/
Special Studies as Required– see Site Plan Review Committee minutes		/

DEVELOPMENT PLAN	Included	N/A
Detailed Site plan including:	/	
Boundary identification	/	
Fire hydrant locations	/	
Accessory structures	/	
Parking lot design	/	
Utility location	/	
Building footprints	/	
Proposed curb cuts	<i>None Required</i>	/
Drainage/detention plans	/	
Traffic circulation	/	
Ingress/egress locations	/	
Major topographic information	/	
Infrastructure improvements	/	
Square footage of:	/	
Lot or parcel	/	
Existing impervious surface	/	
Proposed total impervious (existing plus current proposal)	/	
Existing building	/	
Proposed total building (existing plus current proposal)	/	

Existing parking and pavement	/	
Proposed total parking and pavement (existing plus current proposal)	/	
Relevant dimensions including:	/	
Buildings	/	
Parking stalls	/	
Driveway widths	/	
Setbacks to buildings and other improvements	/	
Parking lot aisles, turnarounds, turning radii, etc.	/	
Distance from driveway to street corner if less than 200'	/	
Sidewalk, walkway and handicap ramp widths and locations	/	
Widths of abutting R.O.W.'s, roadways, and terraces.	/	
Full color architectural renderings of all building elevations with materials identified	/	
Proposed lighting for site, including:	/	
Photometric Plan	/	
Location of all light fixtures	/	
Pole height	/	
Luminaire type and manufacturer's specifications for all exterior light fixtures	/	
Landscaping plan drawn to scale including:	/	
Common and Latin plant names	/	
Planting specifications	/	
Total number of trees provided	/	
Total square footage of landscaped area on site and internal to the parking lot	/	
Identification of area used to calculate internal parking lot landscaping	/	
Fence detail drawing		/
Dumpster enclosure detail drawing	/	
Sign detail drawing	/	
Special studies as required— see Site Plan Review Committee minutes		/

NOTE: If you checked any exhibits "N/A", please explain:

*All items N/A - Site work previously approved
Installation as per approved Civil Engineering*

Town of Munster
Legal Notice
PLAN COMMISSION PETITION NO. _____ - _____

N/A

A petition to _____ [rezone or subdivide] property in conformance with the Town of Munster Zoning Ordinance, has been filed by _____. [Name of Petitioner]

Notice is hereby given that the Town of Munster, Lake County, Indiana, will hold a public hearing in the Munster Town Hall, 1005 Ridge Road, at 7:30 p.m. on _____, 20____, to consider the petition filed.

The petitioner is requesting [a change in zoning from _____ [Current Zoning] to _____, (Proposed Zoning) in the area bounded by or to subvide property at]

Common Address and/or Description

Name of Subdivision

consisting of _____ acres, located and legally described as follows:

Anyone interested in the Petition may appear in person or by agent at the public hearing. Written objections filed with the Plan Commission Executive Secretary, Sergio Mendoza, by 4pm of the day the public hearing is to be heard. The public hearing may be continued from time to time as may be found necessary. All information concerning such petition (application) is on file in the Community Development Office, 1005 Ridge Road, Munster, Indiana, 46321, for public examination.

Sergio Mendoza, Executive Secretary



E. ANTHONY, INC.
Complete Construction Services

18521 Spring Creek Drive, Unit F
Tinley Park, IL 60477
708.802.8230
eanthonyinc.com

LETTER of TRANSMITTAL

Date: 09/03/2024	Project: Orthopedic Specialists of Northwest Indiana (OSNI) 9900 Columbia Avenue Munster, Indiana 46321
EAI #: 224-002	

To: Town of Munster
1005 Ridge Road
Munster, Indiana 46321

Attn: Denise Core
Re: Plan Commission Appearance Application – OSNI – Orthopedic Specialists of Northwest Indiana – 9900 Columbia Avenue

We Are Sending: Attached Via E-Mail: To E-Mail Address:
 Via Electronic Transfer Via Fax

The Following Items: Shop Drawings Submittals Prints / Plans As-Built Documents
 Samples Specifications Correspondence Guarantee
 Contract Change Order Invoice Other (see below)

Copies	Date	Rev./No.	Description
2	07/12/24		ALTA/NSPS LAND TITLE SURVEY
2	08/30/24		CIVIL ENGINEERING DRAWINGS
2	07/12/24		LANDSCAPE PLAN
2	08/13/24		FOR PERMIT ARCHITECTURAL DRAWINGS – A1.0, A2.0, A3.0, A4.0
2	08/05/24		SITE LIGHTING SITE PLAN ES101
2	08/05/24		PHOTOMETRIC SITE PLAN ES102
2	03/11/24		TRASH ENCLOSURE DETAILS

These are Transmitted (as checked below):


For your use As Requested For Approval For Review & Comment

For your Reviewed (no comments) Reviewed as Noted Revise & Resubmit

FOR BIDS DUE: _____ RETURN PRINTS AFTER BID Other Sign & Return

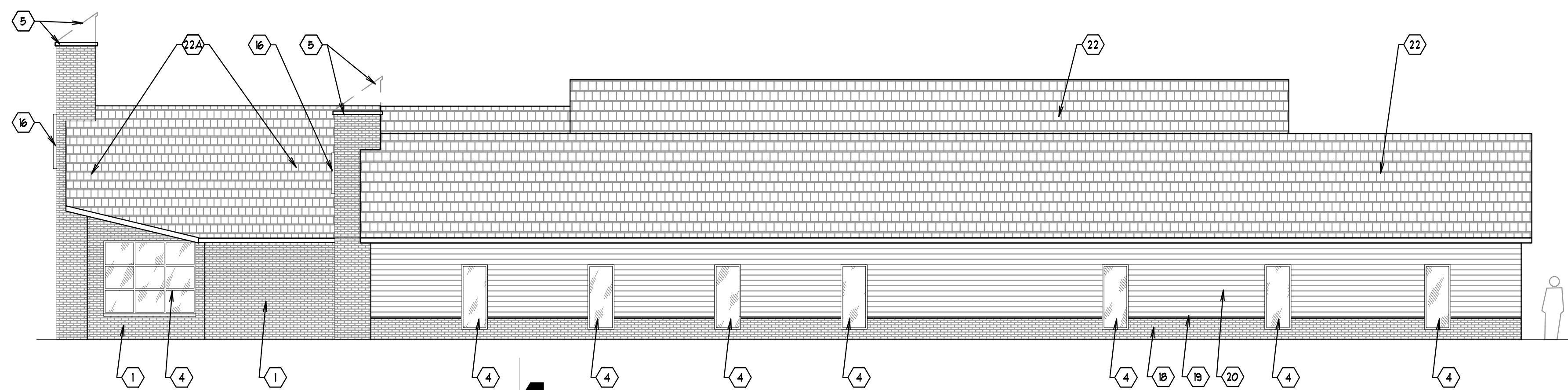
Remarks:

Copies To: File

Signed: 

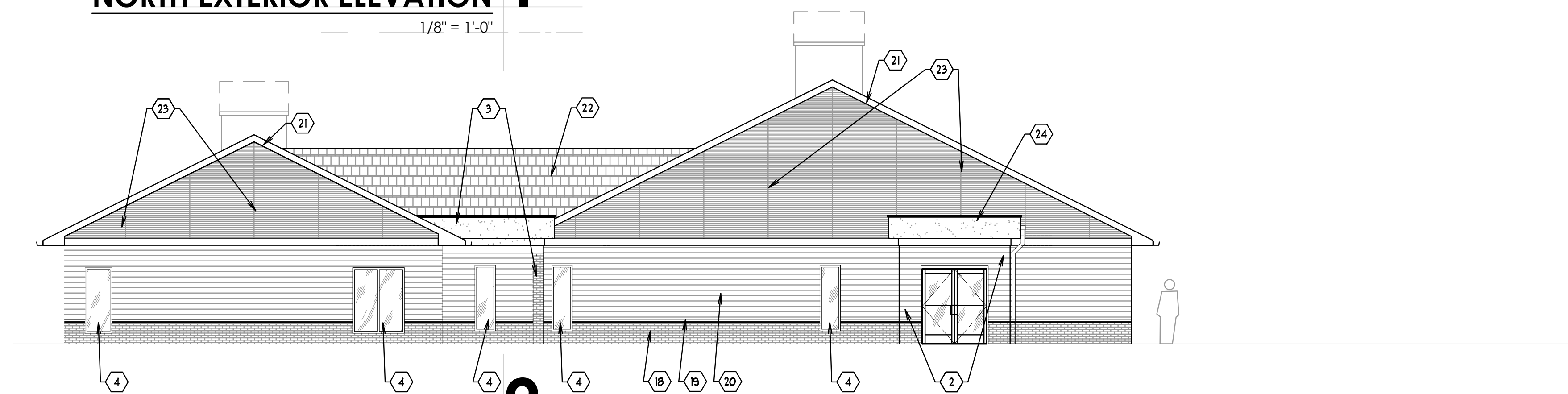
Marc W. Smith

If enclosures are not as noted, please notify us upon receipt.



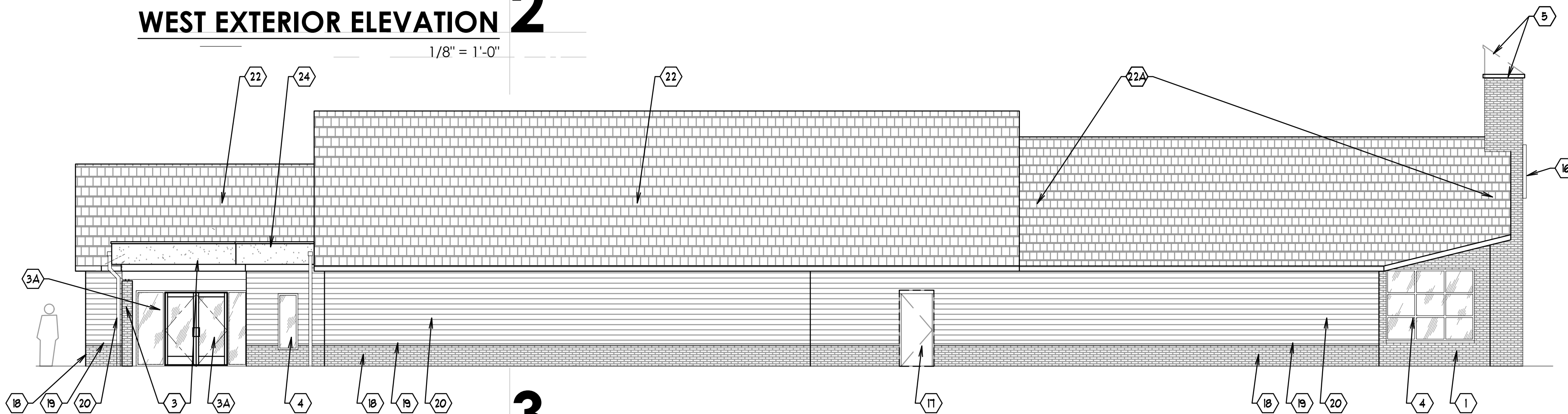
NORTH EXTERIOR ELEVATION 1

1/8" = 1'-0"



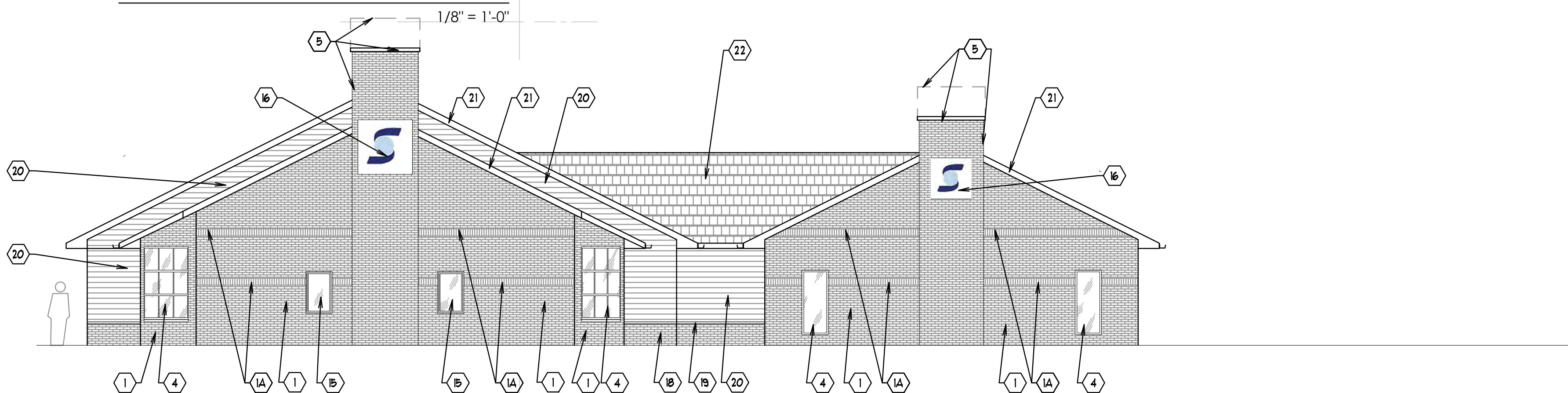
WEST EXTERIOR ELEVATION 2

1/8" = 1'-0"



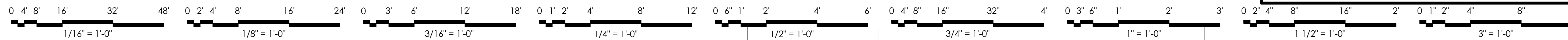
SOUTH EXTERIOR ELEVATION 3

1/8" = 1'-0"



EAST EXTERIOR ELEVATION 4

1/8" = 1'-0"



NOTES

- 1 EXISTING FACE BRICK TO REMAIN, TO BE CLEANED AND TUCKPOINTED.
- 1A EXISTING DECORATIVE MASONRY SOLDIER COURSE TO REMAIN.
- 2 EXISTING ENTRY VESTIBULE TO REMAIN TO BE MODIFIED. EXISTING COLUMNS, FLOOR, WALLS, WINDOWS, DOORS TO REMAIN. EXISTING SLOPED ROOF TO BE CAREFULLY REMOVED, TO BE REPLACED WITH NEW FLAT ROOF CONSTRUCTION. FURNISH AND INSTALL NEW FLAT ROOF CONSTRUCTION, TO HAVE VERTICAL ENCLOSURE WITH PANELS TO MATCH EXISTING. PROVIDE NEW FLAT CEILING WITH NEW LIGHTING. SEE MECHANICAL.
- 3 EXISTING EXTERIOR ENTRANCE CANOPY TO REMAIN TO BE MODIFIED. EXISTING COLUMNS TO REMAIN. EXISTING SLOPED ROOF STRUCTURE TO BE CAREFULLY REMOVED AND REPLACED WITH NEW FLAT ROOF STRUCTURE. FURNISH AND INSTALL NEW FLAT ROOF CONSTRUCTION, TO HAVE VERTICAL ENCLOSURE WITH PANELS TO MATCH EXISTING. FOR NEW FLAT ROOF, PROVIDE NEW DOWNSPOUT.
- 3A EXISTING GLAZED ENTRY DOORS AND SIDELIGHTS TO REMAIN.
- 4 EXISTING WINDOW TO REMAIN.
- 5 IN THIS AREA EXISTING EXTERIOR TOWER TO REMAIN TO BE MODIFIED. EXISTING SLOPED TOP TO BE REMOVED DOWN TO LOWER LEVEL OF SLOPE. FURNISH AND INSTALL NEW FLAT ROOF WITH METAL COPING TO MATCH EXISTING.
- 5B NEW WINDOW, WITH NEW LINTEL.
- 16 IN THIS AREA, ON EXISTING EXTERIOR TOWER TO REMAIN, EXISTING DECORATIVE MASONRY "CROSS" TO REMAIN. FURNISH AND INSTALL NEW ENCLOSURE AND BACK-LIT GRAPHIC TO COVER EXISTING CROSS.
- 17 NEW EXTERIOR DOOR, TO BE PAINTED TO MATCH ADJACENT.
- 18 NEW CULTURED STONE WANSCOT.
- 19 NEW PRECAST CAP.
- 20 NEW HORIZONTAL LONGBOARD SIDING.
- 21 ALUMINUM FASCIA.
- 22 EXISTING ASPHALT SHINGLES TO REMAIN.
- 22A NEW ASPHALT SHINGLES.
- 23 NEW LONGBOARD METAL PANELS.
- 24 ON EXISTING WEST ENTRY, EXISTING SLOPED GABLE ROOF STRUCTURE TO BE REMOVED. FURNISH AND INSTALL NEW FLAT ROOF CONSTRUCTION, TO HAVE VERTICAL ENCLOSURE WITH PANELS TO MATCH EXISTING. FOR NEW FLAT ROOF, PROVIDE NEW DOWNSPOUT.

EXTERIOR FINISH NOTES

- ASPHALT SHINGLES
OWENS CORNING, DURATION SHINGLES
ESTATE GRAY
- SIDING
LONGBOARD ARCHITECTURAL PRODUCTS TONGUE AND GROOVE PLANK CLADDING, 8"
DARK CHERRY
- METAL PANELS
LONGBOARD ARCHITECTURAL PRODUCTS, PANEL BOARD SYSTEM WITH U-REVEALS, SEE ELEVATIONS FOR REVEAL LOCATIONS.
- PAINTED BRICK
BENJAMIN MOORE
- WANSCOT
BRICK CULTURED STONE
TENLEY BRICK WILDON
- CANOPY
COLOR SELECTED FROM MANUFACTURER'S STANDARD.

RIDGELAND ASSOCIATES INC.
ARCHITECTS DESIGNERS PLANNERS
1 Riverside Rd. Riverside, Illinois 60546
708.435.0300 708.435.0305 fax
www.ridgelandassociates.com

ZENON KURDZIL
AR 19800045
REGISTERED ARCHITECT
EXPIRATION DATE: 12/31/2025

EAI
DESIGN/BUILD
E.ANTHONY, INC.
Complete Construction Services
708-602-6230

OSNI
BUILDING RENOVATION AND SITE WORK
9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

Revisions

FOR PERMIT
08-13-2024

Drawing Date: _____
Project Number: 24038

This document is an instrument of service and is the sole property of Ridgeland Associates, Inc. It may not be copied, reproduced, altered or used in whole or in part on any other project without expressed written consent from Ridgeland Associates, Inc.

Sheet Name: **PROPOSED EXTERIOR ELEVATIONS**
Sheet Number: **A3.0**
© 2024 Ridgeland Associates, Inc.

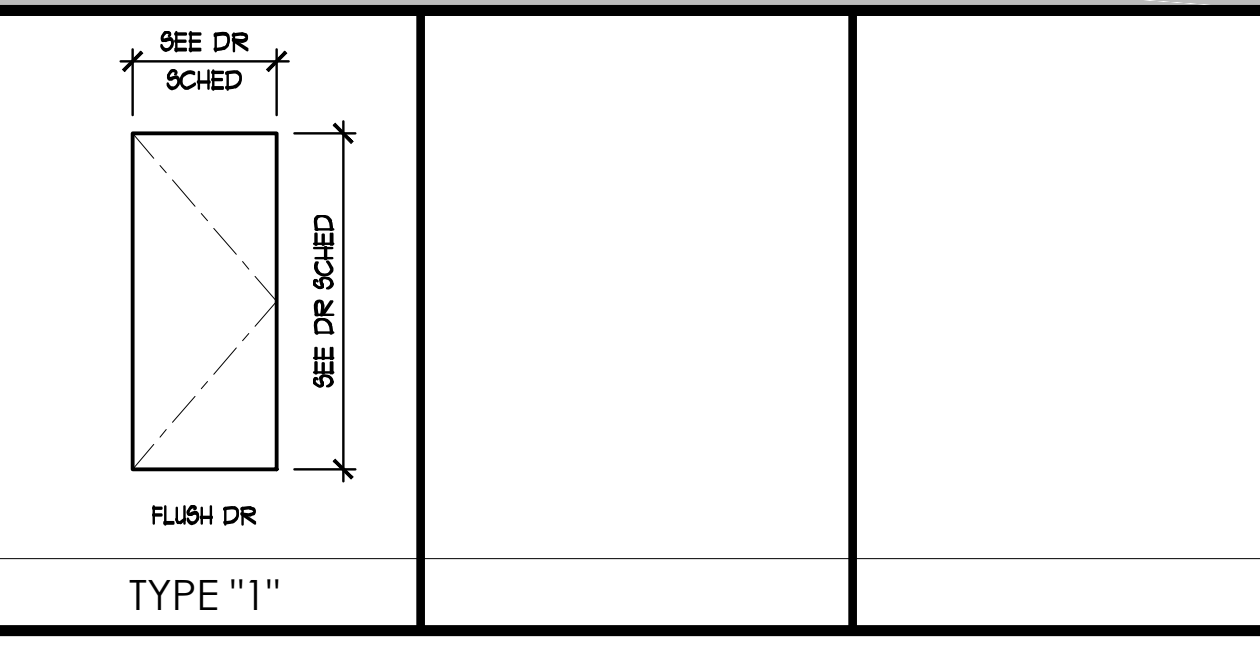
HARDWARE SCHEDULE

DOOR TYPES

DOOR SCHEDULE

GENERAL NOTES

Table with 4 columns: ITEM, QUANTITY / DESCRIPTION, LOCATION, and QUANTITY / DESCRIPTION. Includes hardware items like hinges, lockets, wall stops, panic devices, and door hardware for various door types (toilet room, exit, mechanical, exterior, closet).

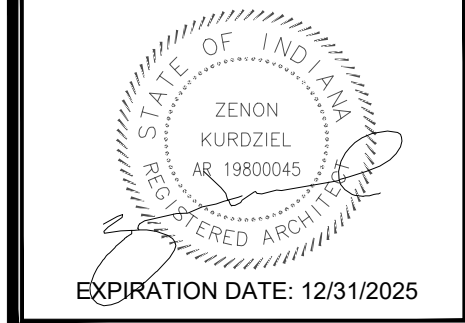


Large table listing door schedule items with columns for Door Number, Hardware Group, Function Group, Existing, New, Pair (PR), Dimension (Width, Height, Thick), Door Material, Door Finish, Frame Material, Frame Details (Head, Jamb), Frame Finish, Assembly Rating, and Remarks. Lists items like 100X, 100AX, 101, 102, 103, etc.

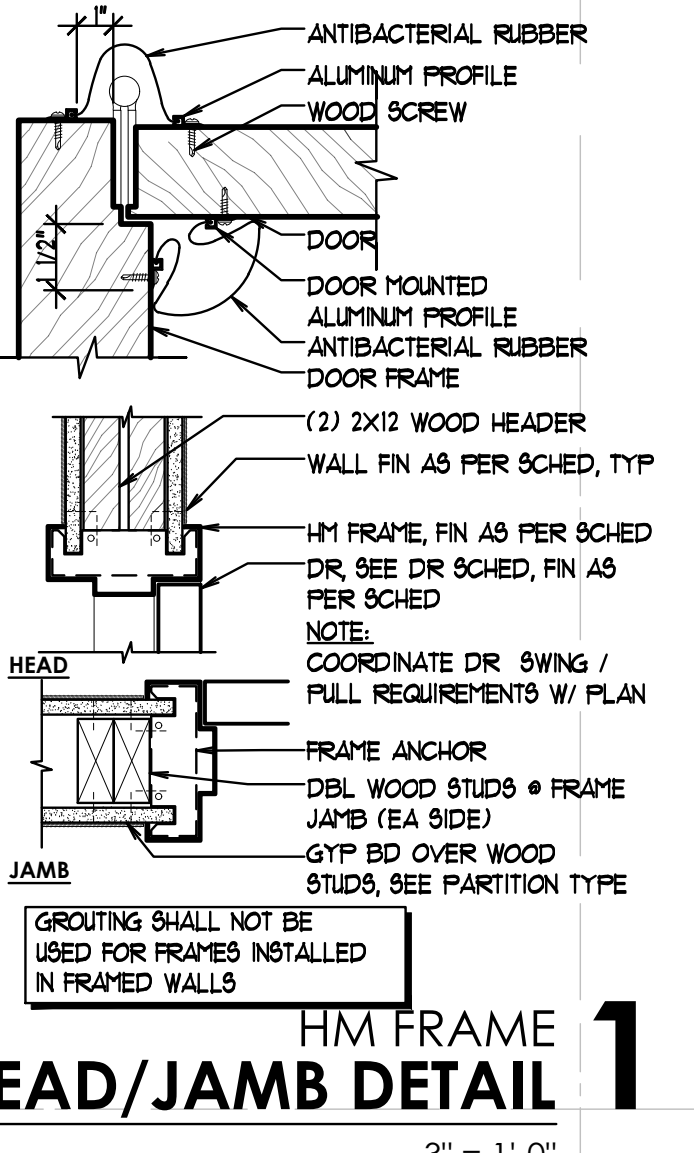
- A. ALL NEW DOOR HARDWARE TO MEET ADA ACCESSIBILITY GUIDELINES
B. GC TO VERIFY ALL DOOR QUANTITIES AND VERIFY DIMENSIONS IN FIELD PRIOR TO PURCHASING UNITS
C. CONTRACTOR TO SUBMIT CATALOG CUT SHEETS FOR ALL DOORS AND HARDWARE PRIOR TO INSTALLATION
D. ALL EXIT HOLLOW METAL DOORS TO BE INSULATED AND ARRIVE AT SITE W/ MFR APPLIED LABELS STATING SUCH
E. ALL DOORS USED AS MEANS OF EGRESS SHALL PROVIDE LOCKING HARDWARE NOT REQUIRING A KEY OR SPECIAL KNOWLEDGE OR EFFORT AT ALL TIMES FROM THE EGRESS SIDE OF THE DOOR AND IN COMPLIANCE W/ SECTION 1003.3.1.B
F. EGRESS DOOR HANDLES, PULLS, LATCHES, LOCKS AND OTHER DEVICES SHALL BE AT A MINIMUM HEIGHT OF 34 INCHES AND A MAXIMUM HEIGHT OF 48 INCHES ABOVE THE FINISHED FLOOR
G. DOOR HARDWARE MUST BE INSTALLED NO HIGHER THAN 48 INCHES THE OPERATING DEVICES SHALL BE CAPABLE OF OPERATION W/ ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, TIGHT FINCHING, OR TWISTING OF THE WRIST TO OPERATE. THUMB-TURN DEVICES ARE NOT PERMITTED
H. ALL RATED DOORS TO HAVE RATED HARDWARE
I. PAINT ALL HOLLOW METAL DOORS AND FRAMES TO MATCH ADJACENT WALL'S SURFACES, UNO
J. ALL EXTERIOR DOORS SHALL BE PROVIDED W/ NON-FERROUS NON-REMOVABLE HINGES, WEATHER STRIPPING AND INSULATION
K. DOOR AND HARDWARE SHALL BE COMMERCIAL GRADE 2 HARDWARE AS LISTED PER DR SCHEDULE BELOW
L. ALL HARDWARE TO HAVE SATIN CHROMIUM FINISH, UNO
M. NO KNOCK DOWN DOOR FRAMES ARE PERMITTED
N. ALL METAL FRAMES TO HAVE WELDED CORNERS 1/4 GA GALVANIZED STEEL TYP
O. PROVIDE DETECTABLE WARNINGS (KNURLED HARDWARE) AT ALL DOORS TO HAZARDOUS AREAS INCLUDING, BUT NOT LIMITED TO JANITORS CLOSET, MECHANICAL ROOMS, SPRINKLER ROOMS, IN ACCORDANCE WITH ANSI 4.21.3.
P. PROVIDE SIGNAGE INDICATING ACCESSIBILITY TO TOILET FACILITIES IN ACCORDANCE TO ANSI 4.28.5.
Q. PROVIDE SIGNAGE INDICATING INTERNATIONAL SYMBOL FOR ACCESSIBILITY AT ACCESSIBLE ENTRANCES IN ACCORDANCE WITH 4.28.5.
R. VERIFY ALL DOOR HARDWARE AND FINISHES WITH OWNER PRIOR TO CONSTRUCTION.
S. DOOR HARDWARE FOR X-RAY ROOM LEAD LINED DOORS TO BE VERIFIED AND COORDINATED WITH REQUIREMENTS AND WEIGHTS OF LEAD LINED DOORS. SEE X-RAY EQUIPMENT VENDOR DRAWINGS. COORDINATE WITH PHYSICIST REQUIREMENTS FOR LEAD SHIELDING.

ACCESSIBILITY NOTES

- 1. PROVIDE DR CLOSERS ON ALL ENTRANCE DRS, AND AS NOTED ON THE PLAN, IN ACCORDANCE W/ ADAAG 4.13.10-4.13.11 + ICC/ANSI A117.1-2003 CH 4, SEC 404.2.8
2. DR CLOSERS SHALL BE ADJUSTED SO THAT IT TAKES AT LEAST 5 SECONDS FOR A DOOR OPENED 90° TO MOVE TO A POSITION OF 12" FROM THE LATCH
3. DR SPRING HINGES SHALL BE ADJUSTED SO THAT IT TAKES AT LEAST 3 SECONDS FOR A DOOR OPENED 10° TO MOVE TO A POSITION 3 INCHES FROM THE LATCH
4. DR OPENING FORCE SHALL BE IN ACCORDANCE W/ THE FOLLOWING:
- INTERIOR HINGED DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 5.0 LBF
- SLIDING OR FOLDING DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 8.0 LBF
- EXTERIOR HINGED DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 8.5 LBF
5. PROVIDE THRESHOLDS AS REQUIRED, IN ACCORDANCE WITH ADA SECTION 4.13.8 (BEVELED SLOPE OF NO GREATER THAN 1:2 AND 1/2" MAXIMUM HEIGHT)
6. ALL EXIT DEVICES SHALL BE OF TOUCH BAR DESIGN WITH SMOOTH OPERATION AND BE OPERATIVE OVER 2/3 OF THE DRS CLR OPENING WIDTH
7. ALL EXIT DEVICES MUST BE LISTED UNDER "PANIC HARDWARE" IN THE ACCIDENT EQUIPMENT LIST OF UNDERWRITERS' LABORATORIES, INC. WHERE LABELED DRS ARE USED AS EXITS, THEY MUST BE EQUIPPED W/ LABELED FIRE EXIT HARDWARE AND UL10C, UL9C-1-2-1991 CODES
8. ALL SPRINGS SHALL BE OF STAINLESS STEEL THROUGHOUT
9. ALL EXIT DEVICES SHALL BE OF CHASSIS MOUNTED UNIT CONSTRUCTION
10. ALL EXIT DEVICES SHALL BE ANSI A86.3, GRADE 1

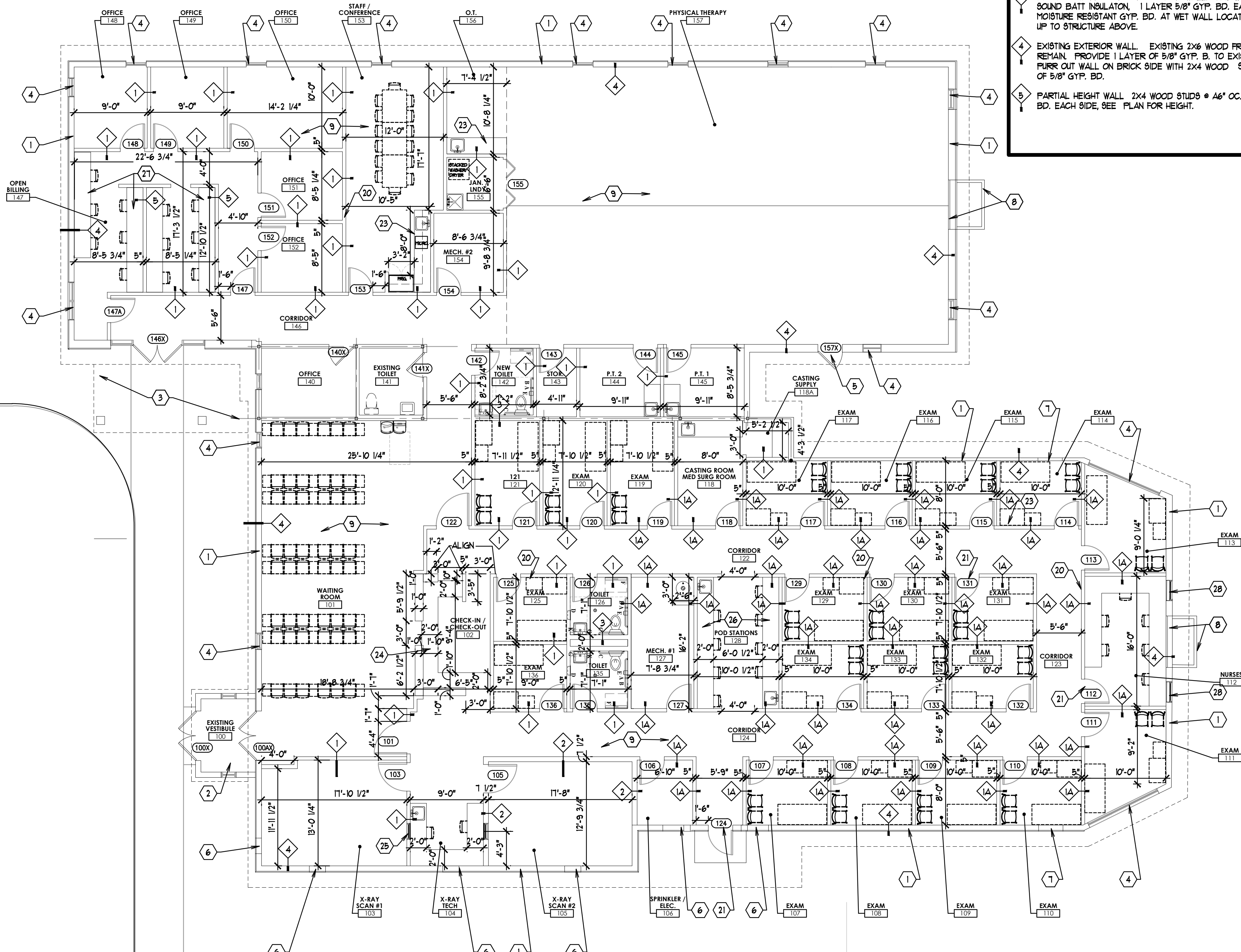


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Revisions table with columns for revision number and description. Includes project information: FOR PERMIT 08-13-2024, Drawing Date, Project Number 24038.

Sheet Name: DOOR SCHEDULE AND DETAILS
Sheet Number: A4.0
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PROPOSED FLOOR PLAN

1/8" = 1'-0" A1.0



PARTITION NOTES

- PARTITION TYPE NOTES**
- 1 TYPICAL 2X4 WOOD STUD WALL, 2X4 WOOD STUDS, @16" O.C., SOUND BATT INSULATION, 1 LAYER 5/8" GYP. BD. EACH SIDE. EXTEND WALL TO STRUCTURE ABOVE.
 - 2 SAME AS TYPE 1, BUT EXTEND WALL TO 12'-0" AFF.
 - 3 XRAY ROOM WALLS TYPICAL 2X6 WOOD STUD WALL, 2X6 WOOD STUDS, @16" O.C., SOUND BATT INSULATION, 1 LAYER 5/8" GYP. BD. EACH SIDE. EXTEND WALL TO STRUCTURE ABOVE. WITH ADDED LEAD LINING TO 1'-0" AFF. SEE XRAY MANUFACTURER REQUIREMENTS.
 - 4 PLUMBING WALL. TYPICAL 2X6 STUD WALL, 2X6 WOOD STUDS, @16" O.C., SOUND BATT INSULATION, 1 LAYER 5/8" GYP. BD. EACH SIDE. USE MOISTURE RESISTANT GYP. BD. AT WET WALL LOCATION. EXTEND WALL UP TO STRUCTURE ABOVE.
 - 5 EXISTING EXTERIOR WALL. EXISTING 2X6 WOOD FRAMING AND BRICK TO REMAIN. PROVIDE 1 LAYER OF 5/8" GYP. B. TO EXISTING FRAMING. FLURR OUT WALL ON BRICK SIDE WITH 2X4 WOOD STUDS AND 1 LAYER OF 5/8" GYP. BD.
 - 6 PARTIAL HEIGHT WALL 2X4 WOOD STUDS @ 16" O.C. 1 LAYER 5/8" GYP BD. EACH SIDE, SEE PLAN FOR HEIGHT.

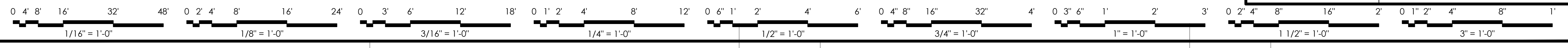
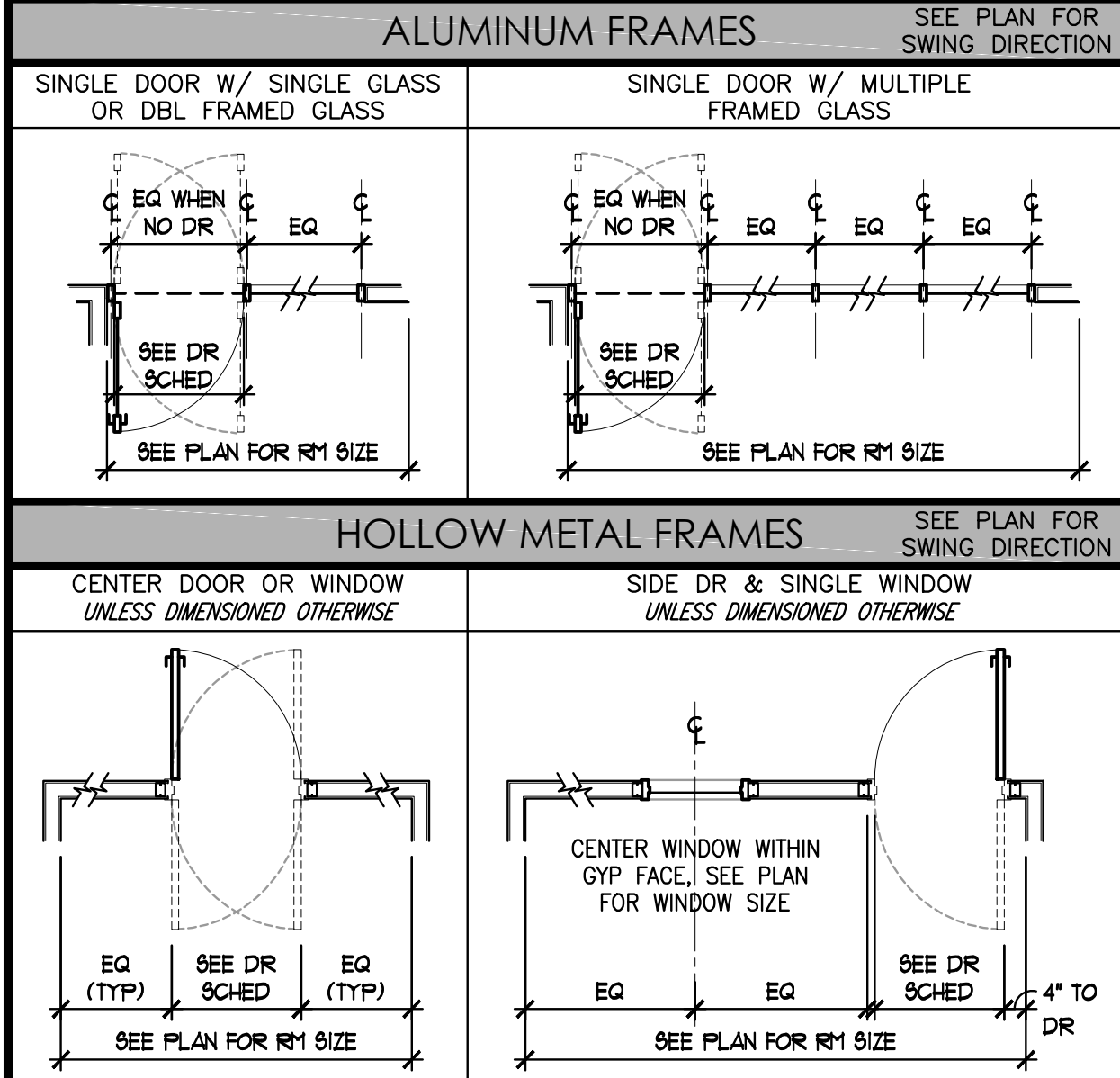
GENERAL NOTES

- A. CONTRACTOR/S SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES IN FIELD BEFORE PROCEEDING WITH ANY WORK.
- B. ALL DOOR HARDWARE TO MEET ADA ACCESSIBILITY GUIDELINES, SEE DR SCHEDULE.
- C. COORDINATE GYPSUM BOARD APPLICATION W/ PARTITION TYPE DRAWINGS AND REFLECTED CEILING PLAN.
- D. ALL GYPSUM BOARD PARTITION DIMENSIONS ARE FROM THE FINISHED FACE OF THE GYPSUM WALL BOARD, INC. DO NOT SCALE DRAWINGS, DIMENSIONS SHALL GOVERN. THE CONTRACTORS SHALL VERIFY ALL CONDITIONS AND DIMENSIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE OWNER/TENANT AND/OR ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES, WITH ALL DUE EXPEDIENCY, FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
- E. ALL WOOD BLOCKING SHALL BE FIRE RESISTANCE IN ACCORDANCE WITH ALL APPLICABLE CODES AND GOVERNING AUTHORITIES.
- F. THE CONTRACTOR SHALL SCHEDULE & COORDINATE THE LOCATION & INSTALLATION OF ALL WOOD BLOCKING & ELECTRICAL DEVICES PRIOR TO THE INSTALLATION OF THE GYPSUM WALL BOARDS & MILLWORK, AFTER CONSULTING THE OWNER FOR ELECTRICAL LOCATIONS.

KEY NOTES

- 1 EXISTING PERIMETER BEARING STUD WALLS TO REMAIN, TYPICAL.
- 2 EXISTING ENTRY VESTIBULE TO REMAIN, TO BE MODIFIED. EXISTING WALLS, WINDOW, DOORS AND FLOOR TO REMAIN. EXISTING SLOPED ROOF TO BE REMOVED AND REPLACED WITH NEW FLAT ROOF CONSTRUCTION. PROVIDE NEW FLAT CEILING AND NEW LIGHTING. SEE MECHANICAL.
- 3 EXISTING EXTERIOR ENTRANCE CANOPY TO BE MODIFIED. EXISTING COLUMNS TO REMAIN. EXISTING SLOPED ROOF TO BE REPLACED WITH NEW FLAT ROOF CONSTRUCTION. PROVIDE NEW EXTERIOR CEILING, ROOFING AND RECESSED LIGHTS.
- 4 EXISTING EXTERIOR WINDOW TO REMAIN.
- 5 EXISTING EXTERIOR DOOR TO REMAIN.
- 6 WHERE EXISTING EXTERIOR WINDOW WAS REMOVED, WALL TO BE FILLED FLUSH TO MATCH EXISTING ADJACENT, INCLUDING INTERIOR DRYWALL AND EXTERIOR CLADDING.
- 7 WHERE EXISTING EXTERIOR DOOR WAS REMOVED, WALL TO BE FILLED FLUSH TO MATCH EXISTING ADJACENT, INCLUDING INTERIOR DRYWALL AND EXTERIOR CLADDING.
- 8 EXISTING EXTERIOR TOWER TO REMAIN. EXISTING INTERIOR FIREPLACE AND CHIMNEY TO BE REMOVED. ON INTERIOR, FURNISH AND INSTALL NEW STUD/DRYWALL INFILL TO BE FLUSH WITH EXISTING ADJACENT.
- 9 EXISTING CONCRETE FLOOR SLAB TO REMAIN, TYPICAL.
- 20 NEW STUD WALL, TYPICAL.
- 21 NEW DOOR, SEE DOOR SCHEDULE, TYPICAL.
- 22 EXAM ROOMS - NEW COUNTER, BASE CABINETS, TO BE ADA ACCESSIBLE, TYPICAL.
- 23 STAFF ROOM - NEW COUNTER, BASE CABINETS, UPPER CABINETS, SINK, TO BE ADA ACCESSIBLE.
- 24 CHECK-IN / CHECK-OUT - NEW WORK COUNTER AND NEW UPPER COUNTER.
- 25 NEW X-RAY VISION WINDOW, SEE X-RAY VENDOR REQUIREMENTS.
- 26 #28 POD STATION TO HAVE NEW COUNTERS, TO BE ADA COMPLIANT.
- 27 #47 OPEN BILLING, TO HAVE 3'-6" TALL PARTIAL HEIGHT WALLS, WITH COUNTERS, TO BE ADA ACCESSIBLE.
- 28 NEW EXTERIOR WINDOW AND NEW LINTEL.

TYPICAL DOOR & WINDOW OPENINGS



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 ZENON KURDZIEL
 REGISTERED ARCHITECT
 EXPIRATION DATE: 12/31/2025

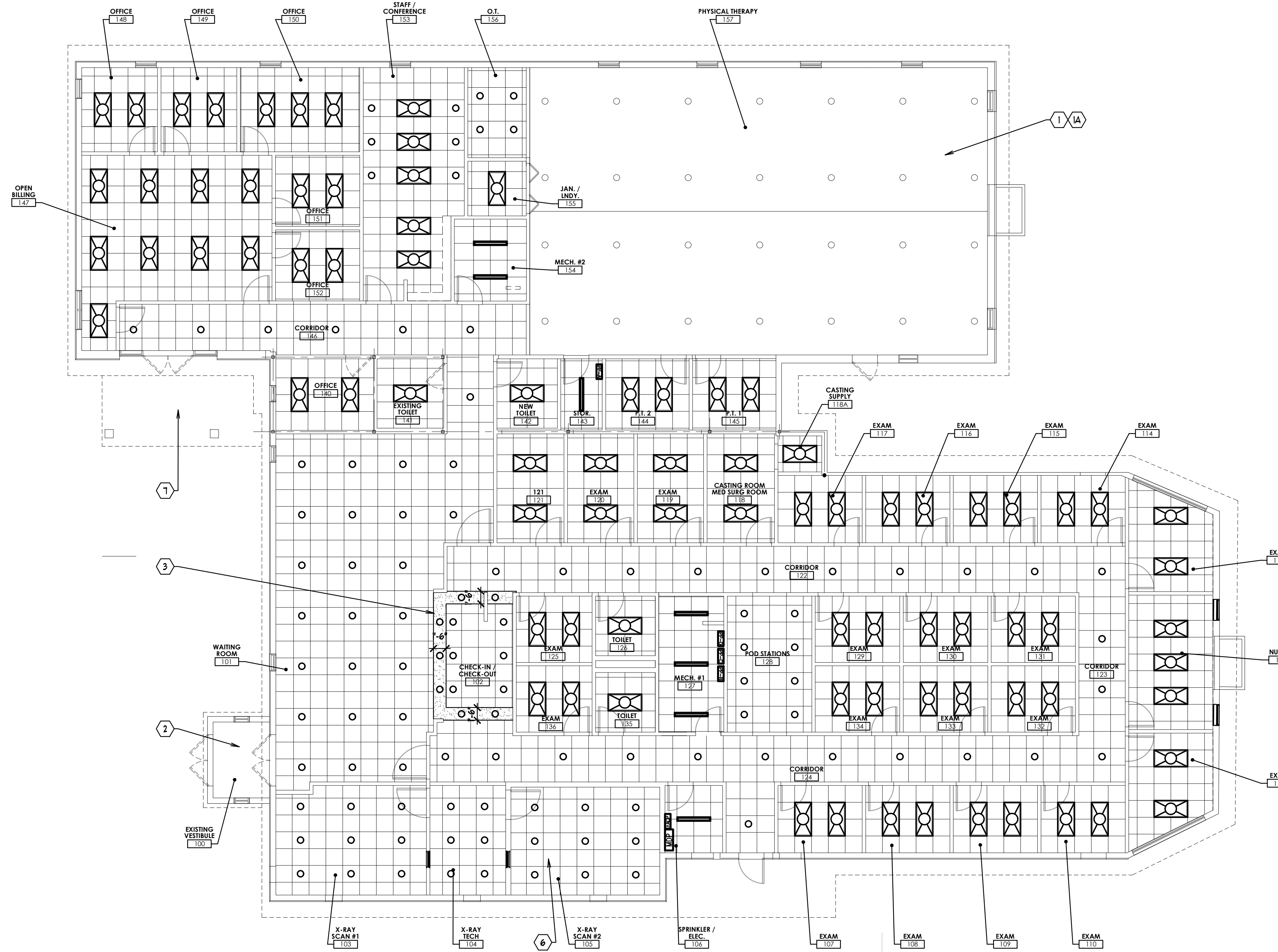
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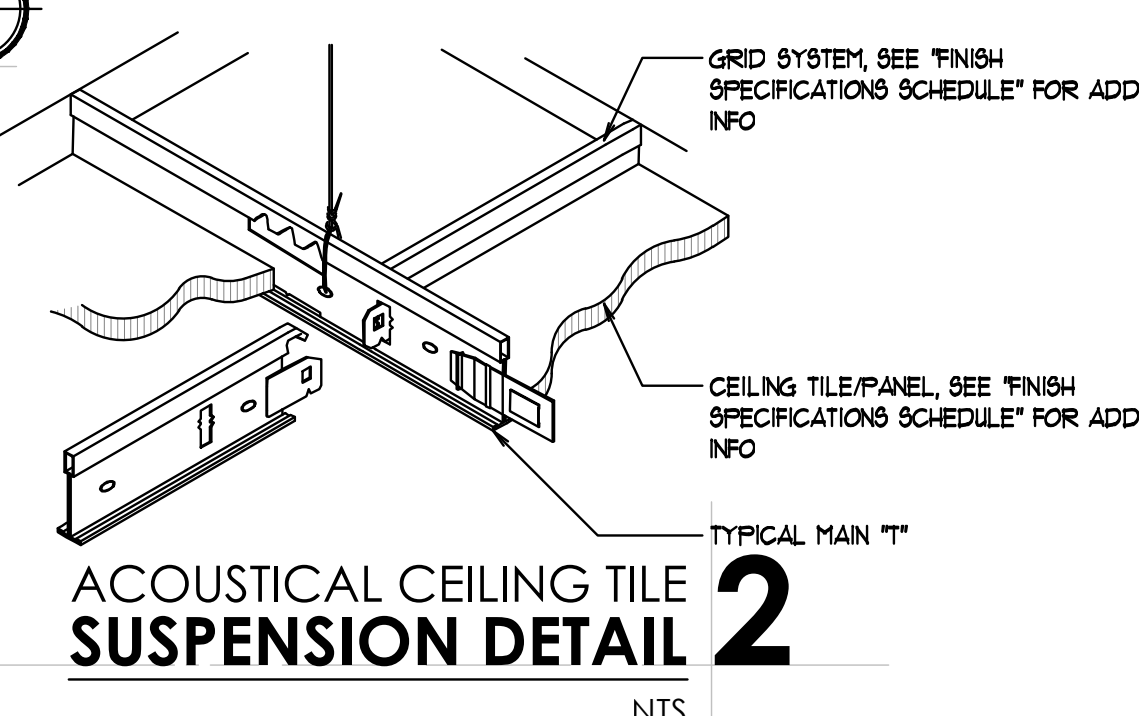
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 Project Number: 24038
 Sheet Name: **PROPOSED FLOOR PLAN**
 Sheet Number: **A1.0**
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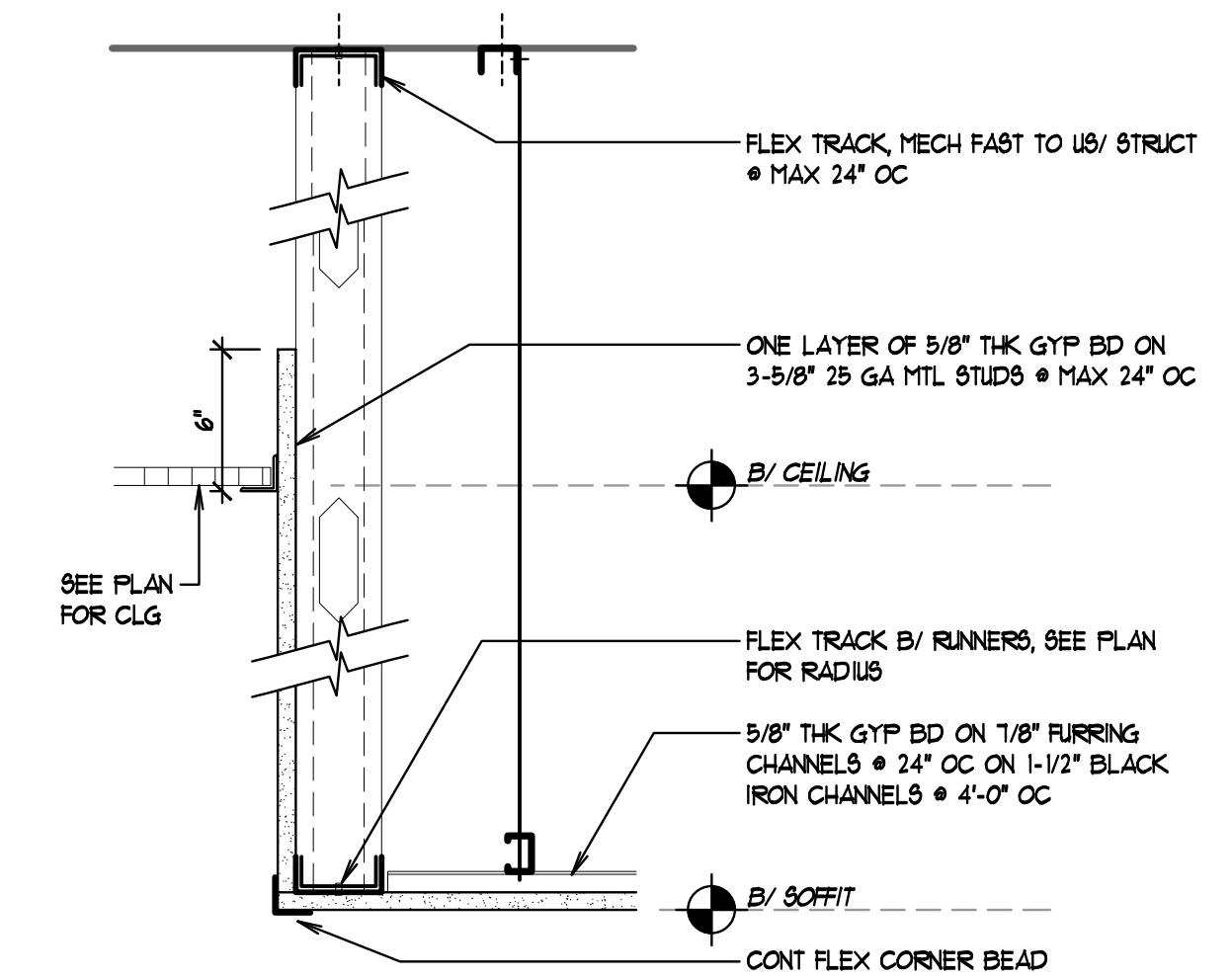


PROPOSED REFLECTED CEILING PLAN

1/8" = 1'-0" A2.0



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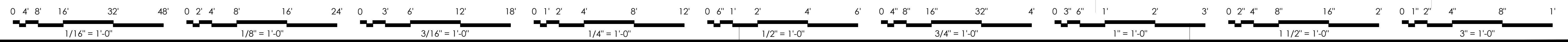


SOFFIT SECTION 1

1-1/2" = 1'-0"

- GENERAL NOTES**
- REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION REGARDING LIGHT FIXTURE SPECIFICATIONS
 - REFER TO MECHANICAL DRAWINGS FOR INFORMATION RELATED TO MECHANICAL WORK
 - ANY SUPPORT WIRES FOR ACOUSTICAL CEILING GRID MUST NOT BE CONNECTED TO ANY OF THE LANDLORD'S MECHANICAL, ELECTRICAL, PLUMBING, FIRE PROTECTION PIPING OR EQUIPMENT, DO NOT CONNECT SUPPORT WIRES TO HORIZ. MTL. BRIDGING MEMBERS, WHERE THEY MAY EXIST
 - CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION
 - PAINT EDGES OF CUT CEILING TILES REMAINING EXPOSED AFTER INSTALLATION. MATCH COLOR OF FACTORY FINISHED PANEL SURFACES USING COATING RECOMMENDED IN WRITING FOR THIS PURPOSE BY THE ACOUSTICAL PANEL MANUFACTURER.
 - LIGHT FIXTURES ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILING, SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION, NOTIFY ARCHITECT OF ANY DISCREPANCIES
 - ALL SINGLE LIGHT FIXTURES SHALL BE CENTERED IN THE CEILING WITHIN THEY OCCUR
 - CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPEAKERS, GENERAL ALARM SPEAKERS/STROBES + MISC. DEVICES IN CEILING TILES WHERE THEY ARE LOCATED
 - REFER TO ELECTRICAL DRAWINGS FOR EXIT SIGNS AND EMERGENCY LIGHTING LOCATIONS AND SPECIFICATIONS
 - ALL EXIT SIGNS ARE TO BE LOCATED IN THE CENTER OF A CEILING TILE (U.N.O.)
 - INSTALL ACCESS PANELS IN GWS CEILINGS AT DUCT DAMPER CONTROLS, DUCT MOUNTED SMOKE DETECTORS, MANUAL DUCT CONTROLS, ETC
 - ALL CEILING FINISHES FLAME SPREAD RATINGS SHALL COMPLY WITH LOCAL FIRE PROTECTION CODE AND/OR LOCAL BUILDING CODES

- KEY NOTES**
- IN #B1 PHYSICAL THERAPY SPACE, EXISTING SLOPED DRYWALL CEILING TO REMAIN. EXISTING RECESSED LIGHT FIXTURES TO REMAIN.
 - IN #B1 PHYSICAL THERAPY SPACE, FOR WORK RELATED TO EXISTING CEILING MOUNTED MECHANICAL REGISTERS, SEE MECHANICAL DRAWINGS.
 - #100 EXISTING VESTIBULE TO REMAIN TO BE MODIFIED. EXISTING FLOOR WALLS, DOORS, WINDOWS TO REMAIN. EXISTING SLOPED ROOF CONSTRUCTION TO BE REMOVED AND BE REPLACED WITH NEW FLAT ROOF CONSTRUCTION. PROVIDE NEW ROOFING, NEW FLAT GYP. BD. CEILING, NEW RECESSED LIGHTS. SEE MECHANICAL.
 - IN #102 CHECK-IN / CHECK-OUT, FURNISH AND INSTALL NEW DRYWALL SOFFIT ABOVE WORK COUNTERS. SOFFIT TO BE 8'-6" APF.
 - NEW 2' X 2' SUSPENDED CEILING SYSTEM USG - ASTRO WITH STANDARD GRID. SEE ELECTRICAL DRAWINGS FOR LIGHT FIXTURE INFORMATION.
 - ALL NEW SUSPENDED CEILINGS TO BE AT 9'-6". G.C. TO VERIFY AND COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS.
 - IN #105 X-RAY ROOM, COORDINATE CEILING HEIGHT WITH STEEL SUPPORTS FOR CEILING MOUNTED X-RAY AND X-RAY MANUFACTURER RECOMMENDATIONS.
 - EXISTING EXTERIOR ENTRY CANOPY TO TO BE MODIFIED. EXISTING COLUMNS TO REMAIN. EXISTING SLOPED ROOF CONSTRUCTION TO BE REMOVED AND BE REPLACED WITH NEW FLAT ROOF CONSTRUCTION. PROVIDE NEW ROOFING, NEW FLAT EXTERIOR GYP. BD. CEILING, NEW RECESSED LIGHTS.



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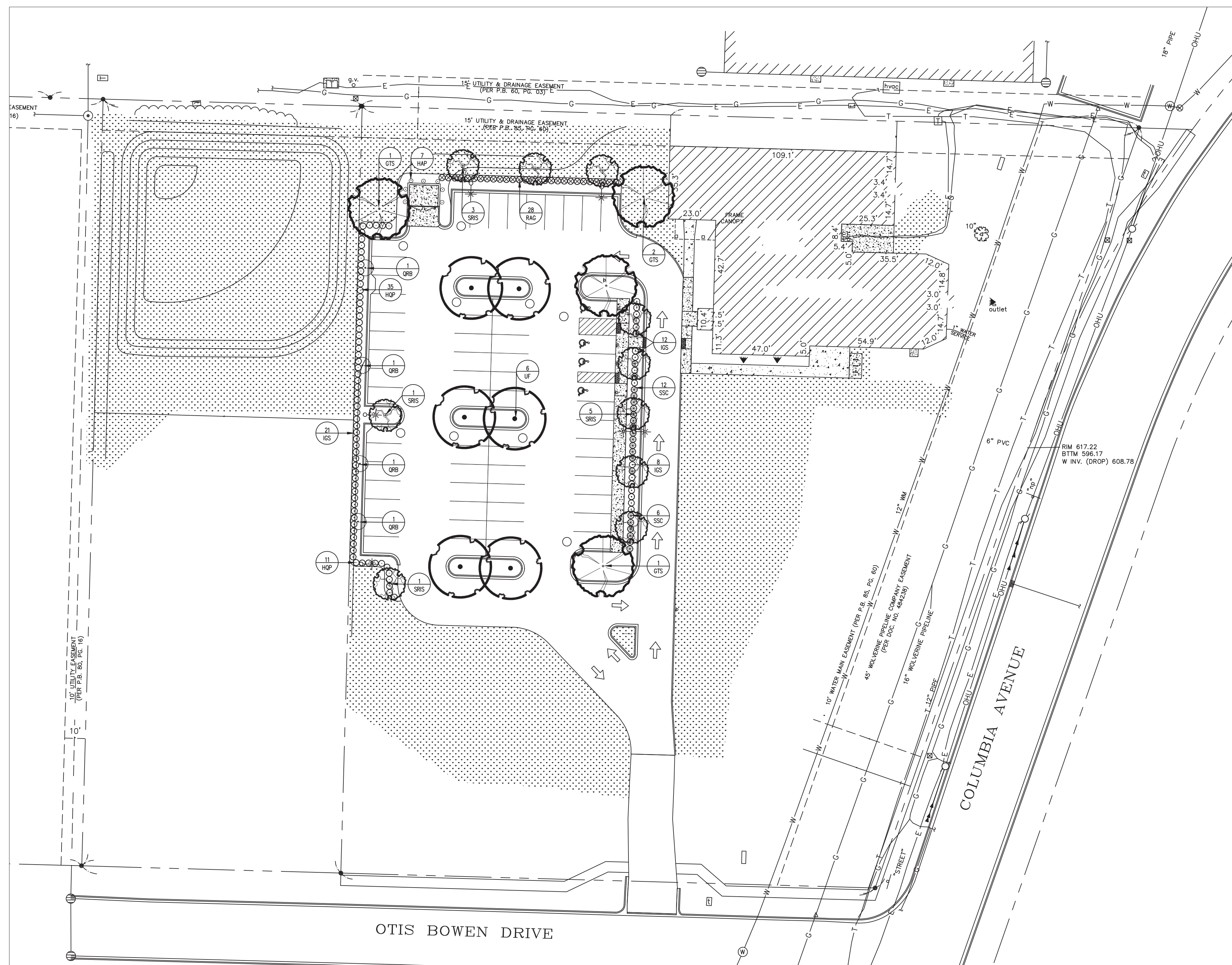
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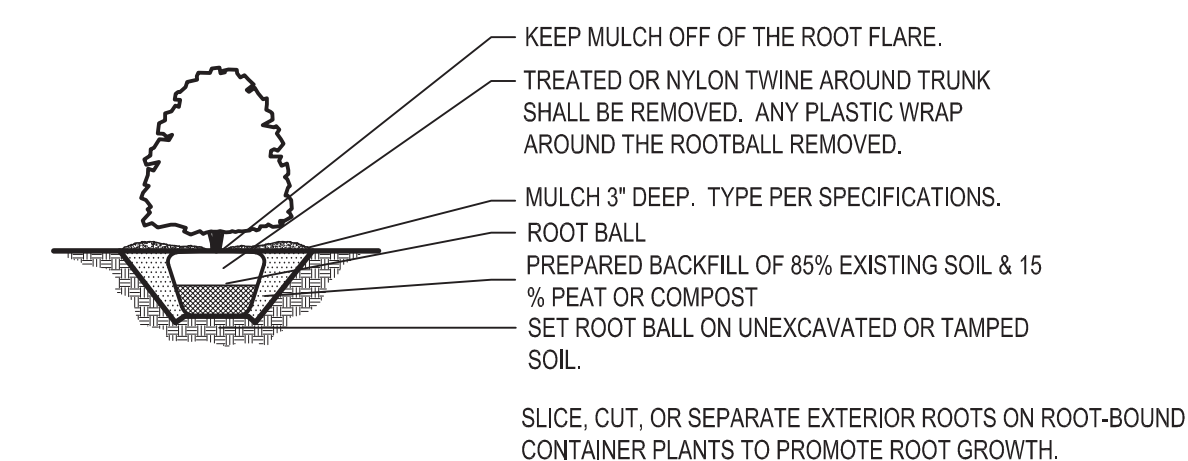
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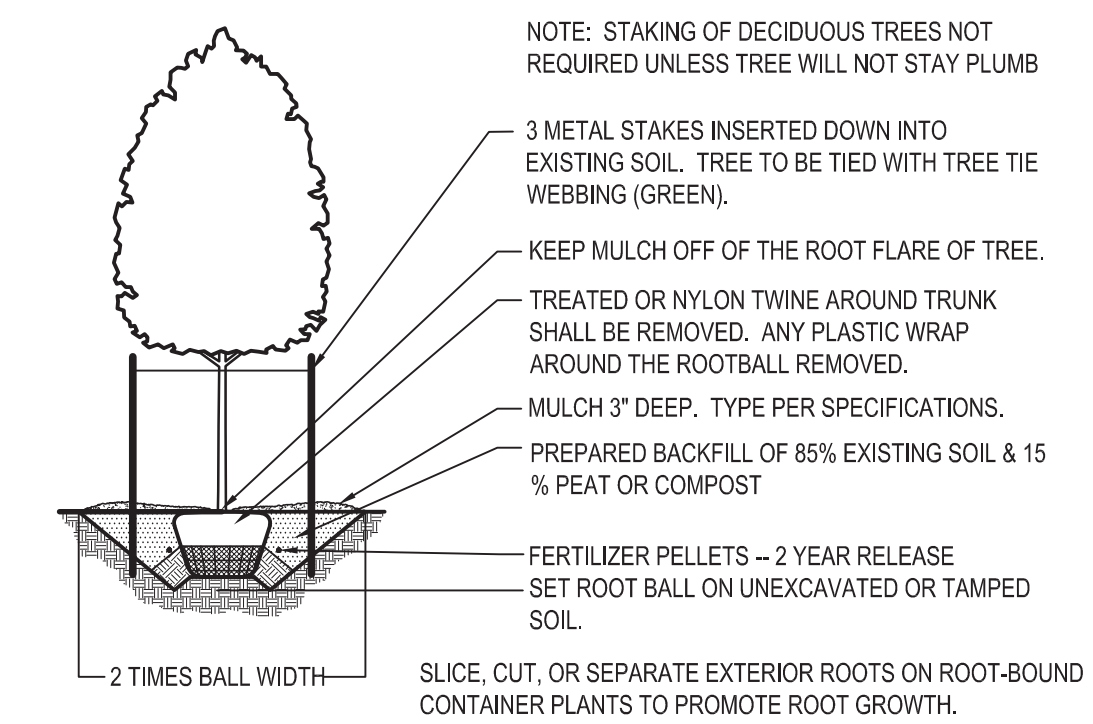


LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. SHRUB PIT WIDTH TO BE TWO TIMES THE WIDTH OF THE ROOT BALL. PRUNE OFF ALL DEAD, BROKEN OR SCARRED BRANCHES, AND SHAPE PRUNE AS DIRECTED BY THE LANDSCAPE ARCHITECT. LOCATE ROOT FLARE IN ROOT BALL AND SET SHRUB HEIGHT SO THAT ROOT FLARE IS FLUSH OR SLIGHTLY HIGHER THAN FINISH GRADE DEPENDING ON EXISTING SOIL CONDITIONS. WATER IN THE PLANTING MIX THOROUGHLY, WHILE KEEPING THE SHRUB PLUMB. STRAIGHTEN SHRUB IF SETTLING OCCURS. MULCH LIMITS FOR SHRUBS TO EXTEND TO ALL EDGES OF PLANTING BEDS. SEE PLANS FOR BED LAYOUTS.



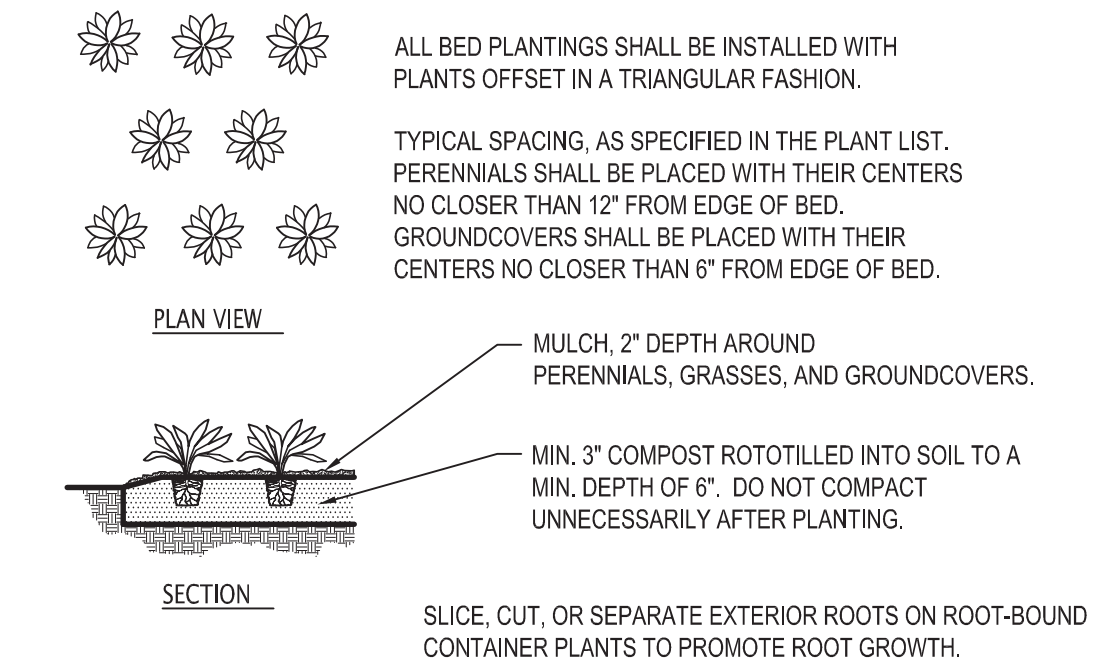
1 SHRUB PLANTING DETAIL
NOT TO SCALE

LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. TREE PIT WIDTH TO BE TWO TIMES THE WIDTH OF THE ROOT BALL. PRUNE OFF ALL DEAD, BROKEN OR SCARRED BRANCHES, AND SHAPE PRUNE AS DIRECTED BY THE LANDSCAPE ARCHITECT. LOCATE ROOT FLARE IN ROOT BALL AND SET TREE HEIGHT SO THAT ROOT FLARE IS FLUSH OR SLIGHTLY HIGHER THAN FINISH GRADE DEPENDING ON EXISTING SOIL CONDITIONS. WATER IN THE PLANTING MIX THOROUGHLY, WHILE KEEPING THE TREE PLUMB. STRAIGHTEN TREE IF SETTLING OCCURS.



2 DECIDUOUS & EVERGREEN TREE PLANTING DETAIL
NOT TO SCALE

LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. AMEND PLANTING BED SOIL WITH COMPOST PRIOR TO PLANT INSTALLATION. BED HEIGHT IS TO BE 2" ABOVE FINISH GRADE AND WELL DRAINED. MULCH LIMITS FOR PERENNIAL AND GROUNDCOVER BEDS TO EXTEND TO ALL EDGES OF THE BEDS. SEE PLANS FOR BED LAYOUTS.



3 PERENNIAL, GROUNDCOVER, AND ANNUAL PLANTING DETAIL
NOT TO SCALE

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Notes:

Stand alone trees and Landscape Areas to have Shredded Hardwood Bark Mulch 3" Deep w/ Pre-emergent herbicide and have spade dug edge.

All disturbed lawn areas to be restored w/ 4" of topsoil, Seed w/ HLC Sunny Mix or approved equal w/ DS-75 Erosion Control Blanket.

Starter fertilizer to be applied at installation and post fertilizer application 30-45 days later with a minimum of 1# of Nitrogen per 1000 SF and 50% being slow release.



SITE CHANGES	7-12-24
SITE CHANGES	3-1-24
Revisions:	Date

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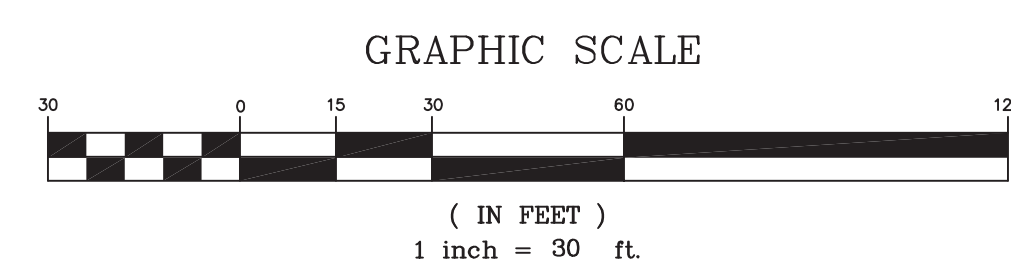
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Date: 10/11/23	
Scale: 1:30	

PLANT LIST			
Symbol	Botanical Name	Common Name	Size
Trees			
GTS	Gleditsia triacanthos var. inermis 'Skycole'	Skyline Locust	2.5"
QRB	Quercus 'Nadler'	Kindred Spirit Oak	2.5"
SRIS	Syringa reticulata 'Ivory Silk'	Ivory Silk Lilac	2.5"
UF	Ulmus 'Frontier'	Frontier Elm	2.5"
Shrubs			
HQP	Hydrangea quercifolia 'PeeWee'	PeeWee Hydrangea	#3
IGS	Illex glabra 'Strongbox'	Strongbox Inkberry	#3
RAG	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	#3
Vine			
HAP	Hydrangea anomala ssp. petiolaris	Climbing Hydrangea	#3
Perennials			
SSC	Schizachyrium scoparium 'Carousel'	Carousel Little Blue Stem Grass	#2

LANDSCAPE REQUIREMENTS						
Calculations	Total Linear Feet (LF) or Square Feet (SF)	Trees Required	Trees Provided	Shrubs Required	Shrubs Provided	
Parking Planting						
Continuous Screening Hedge 7' Wide Required	Provided					
1 Tree / 125 SF Internal Landscaping	2530 SF	20	20			
All Masonry Dumpster Walls to Have Climbing Vines	Provided					

The undersigned landscape architect, registered in the State of Indiana, acknowledges that the landscape planting plan and construction details shown on the attached landscape plan for the property at 9900 Columbia Ave., Town of Munster, Indiana has been designed in accordance with the requirements of the Town of Munster Municipal Code, the landscaping standards of the Town of Munster Zoning Ordinance, and the Guide to the Town of Munster Landscape Ordinances.

David R. Hubinger



HOLEY MOLEY SAYS "DIG SAFELY"



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CALL TOLL FREE
PER INDIANA STATE LAW (IS-1-28)
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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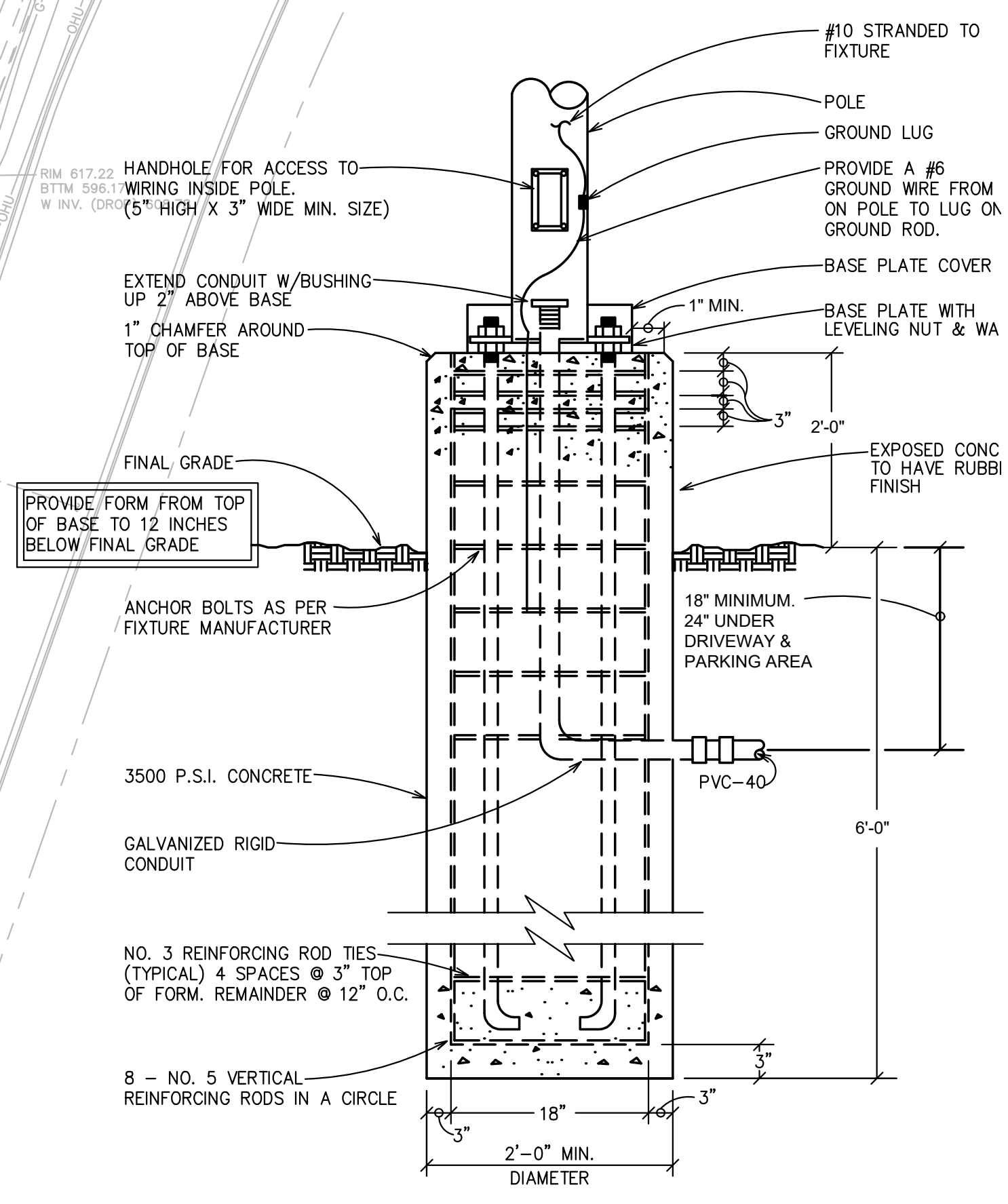
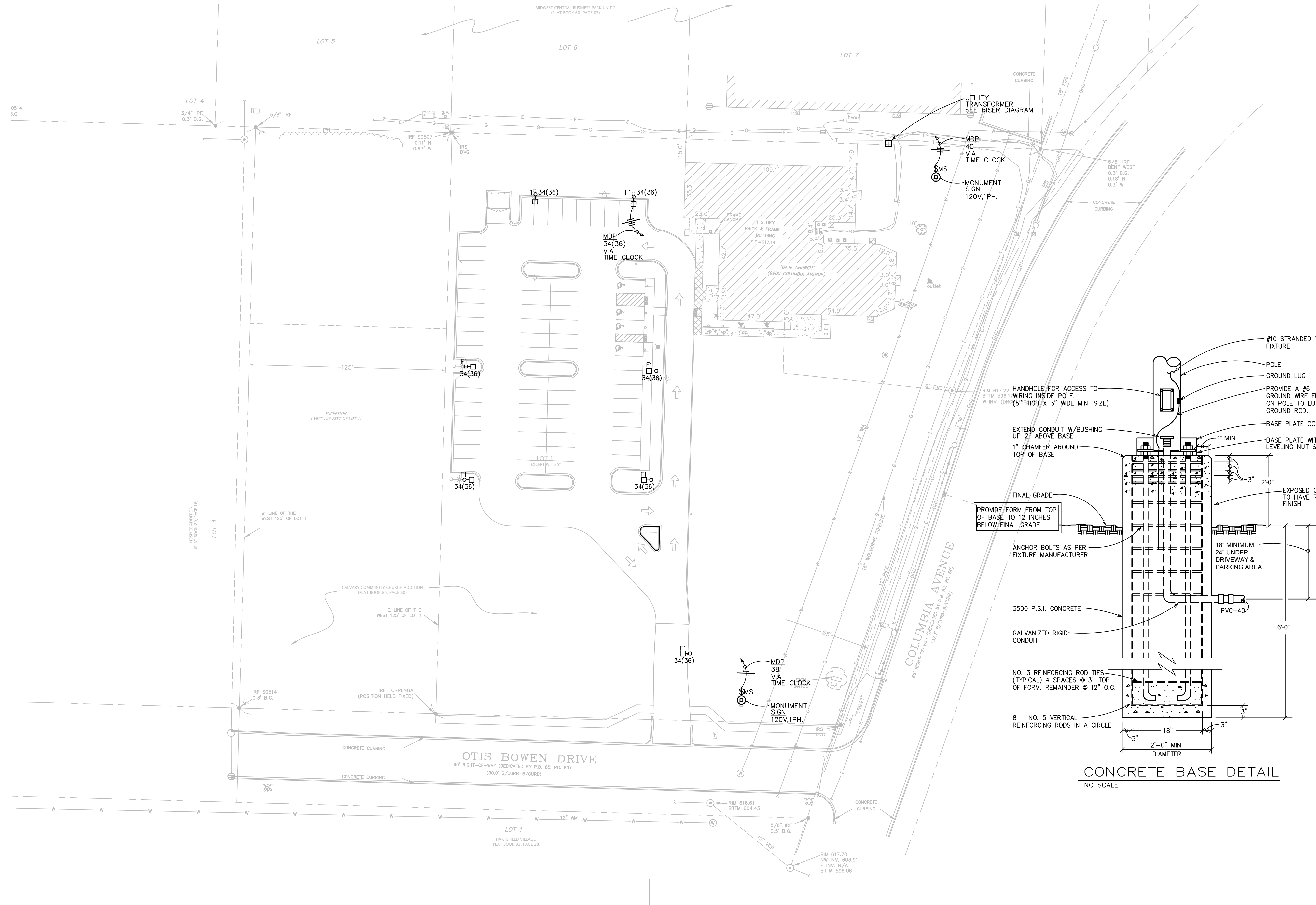
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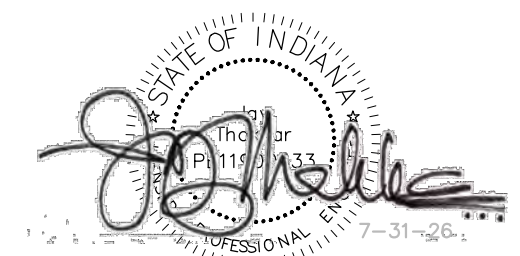
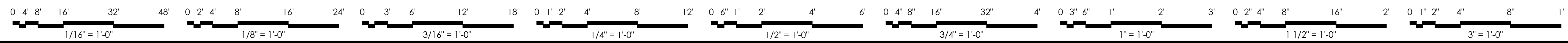
Drawing Date 8-5-2024
 Project Number 24038

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Sheet Name
SITE LIGHTING SITE PLAN
 Sheet Number
ES101
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LIGHTING SITE PLAN
 1" = 30'-0"
 NORTH



Legacy Designs, Inc.
 555 S. Perryville Road
 Rockford, IL 61108
 Phone: 815-484-4708
 815-484-4708
 Fax: 815-484-4710
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 e-mail: legacy@legacymdesigns.net
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RIDGELAND ASSOCIATES INC.
 ARCHITECTS DESIGNERS PLANNERS
 1 Riverside Rd., Riverside, Illinois 60546
 708-435-0300 708-435-0305 fax
 www.ridgelandassociates.com

STATE OF INDIANA
 ZENON KUROZIEL
 REGISTERED ARCHITECT
 EXPIRATION DATE: 12/31/2025

EAI
 DESIGN/BUILD
E.ANTHONY, INC.
 Complete Construction Services
 708-602-8280

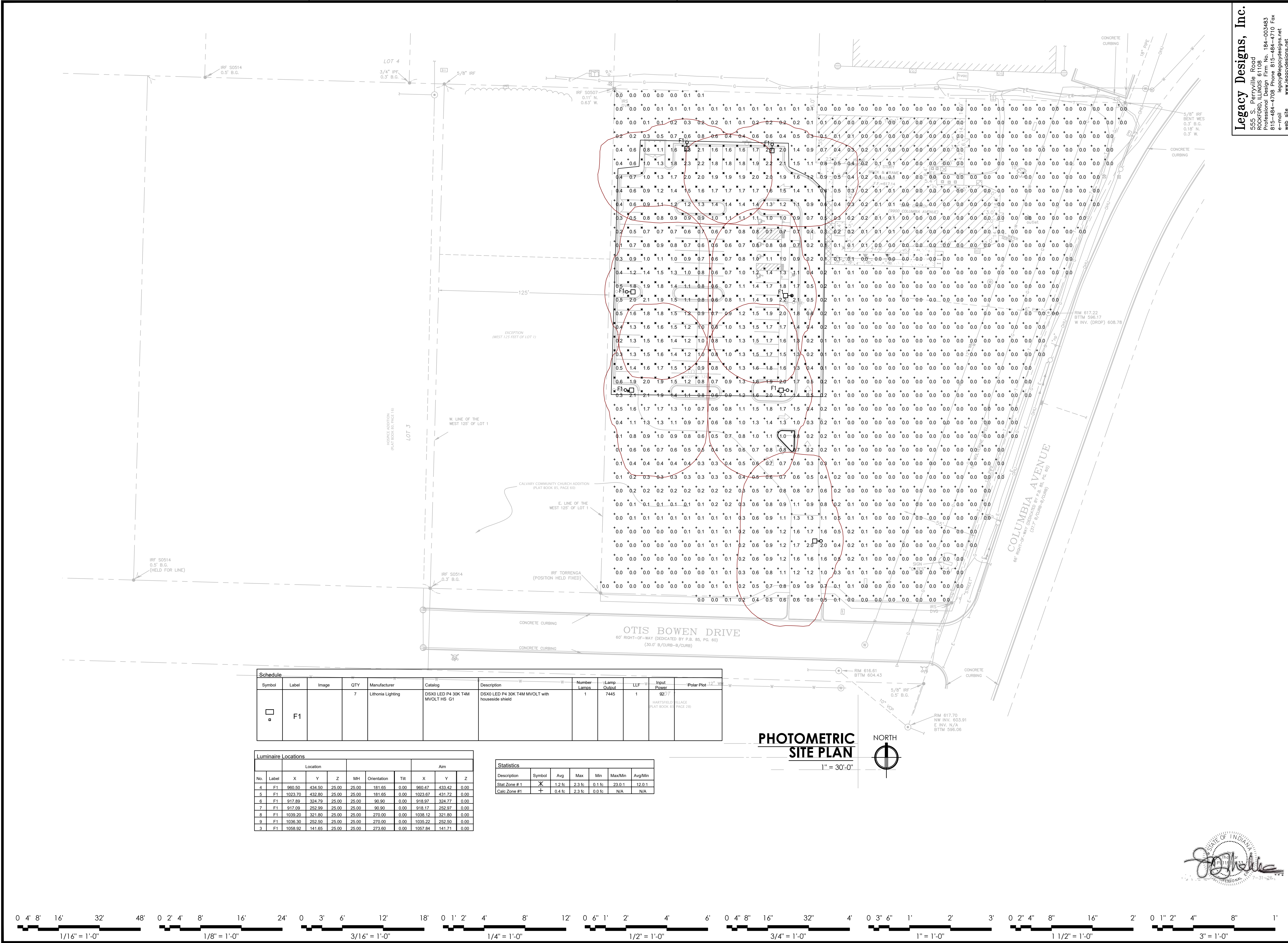
OSNI
 BUILDING RENOVATION AND SITE WORK
 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

Revisions

Drawing Date: 8-5-2024
 Project Number: 24038

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Sheet Name: PHOTOMETRIC SITE PLAN
 Sheet Number: **ES102**
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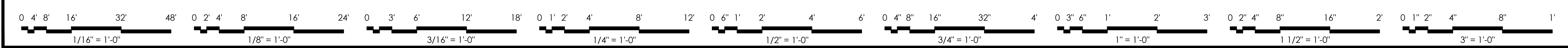


Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot 12"
	F1		7	Lithonia Lighting	DSXO LED P4 30K T4M MVOLT HS G1	DSXO LED P4 30K T4M MVOLT with houseshield	1	7445	1	92.71	MATCHED RELEASE PLAT BOOK 83 PAGE 281

No.	Label	Location				Aim				
		X	Y	Z	MH	Orientation	Tilt	X	Y	Z
4	F1	960.50	434.59	25.00	25.00	181.65	0.00	960.47	433.42	0.00
5	F1	1023.70	432.86	25.00	25.00	181.65	0.00	1023.67	431.72	0.00
6	F1	917.89	334.79	25.00	25.00	90.90	0.00	918.97	334.77	0.00
7	F1	917.09	252.99	25.00	25.00	90.90	0.00	918.17	252.97	0.00
8	F1	1039.20	321.80	25.00	25.00	270.00	0.00	1038.12	321.80	0.00
9	F1	1038.30	252.50	25.00	25.00	270.00	0.00	1035.22	252.50	0.00
3	F1	1058.92	141.65	25.00	25.00	273.60	0.00	1057.84	141.71	0.00

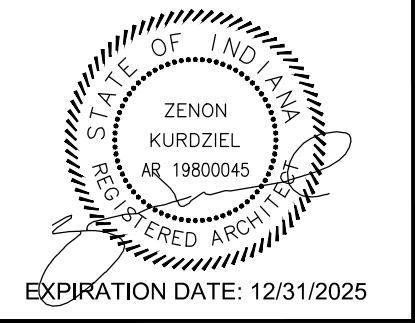
Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stat Zone #1	X	1.2 fc	2.3 fc	0.1 fc	23.0:1	12.0:1
Calc Zone #1	+	0.4 fc	2.3 fc	0.0 fc	N/A	N/A

PHOTOMETRIC SITE PLAN
 1" = 30'-0"
 NORTH



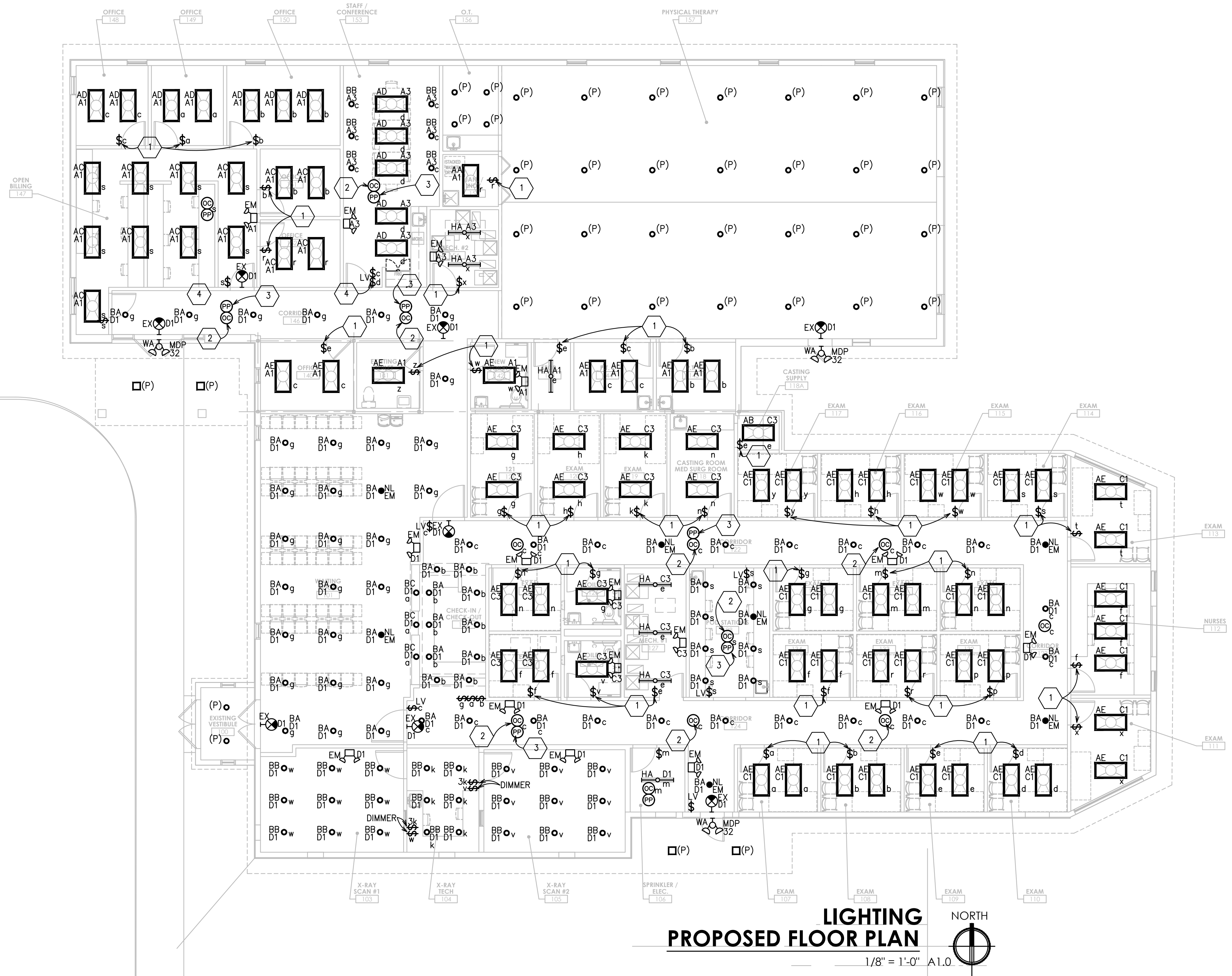
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 Phone: 815-484-4708 Fax: 815-484-4710
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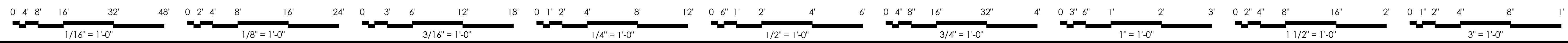
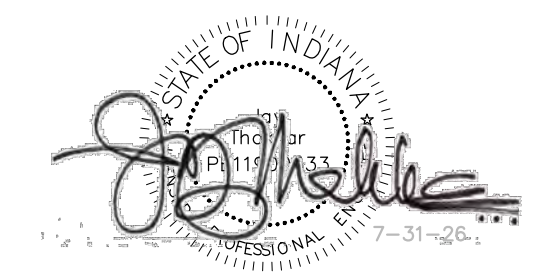


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- REFERENCE NOTES:**
- 1 PROVIDE DSW-301 DUAL TECH WALL SWITCH OCCUPANCY SENSOR - 120/277V - WHITE IN COLOR.
 - 2 PROVIDE LMDC-100 DIGITAL DUAL TECH CEILING MOUNTED MOTION SENSOR
 - 3 PROVIDE POWER PACK BZ-150 120-277V 50-60HZ 24V DC, 225 MA WITH AUTO-ON/MAN
 - 4 PROVIDE LVSW-101 LOW VOLTAGE SWITCH - 1 BUTTON WITH LED - WHITE IN COLOR.



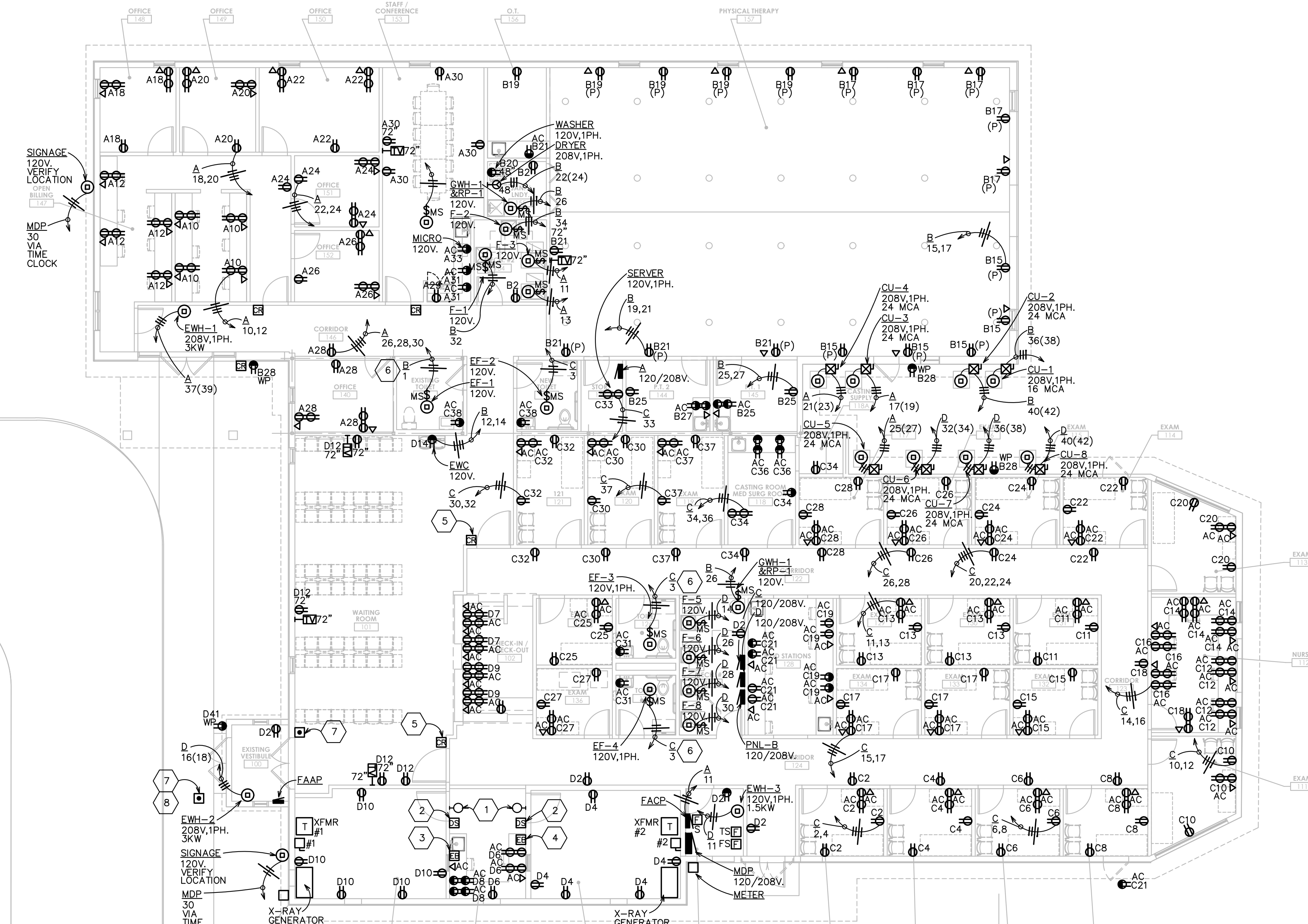
Revisions	

Drawing Date: 8-5-2024
 Project Number: 24038

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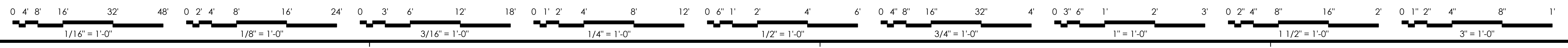
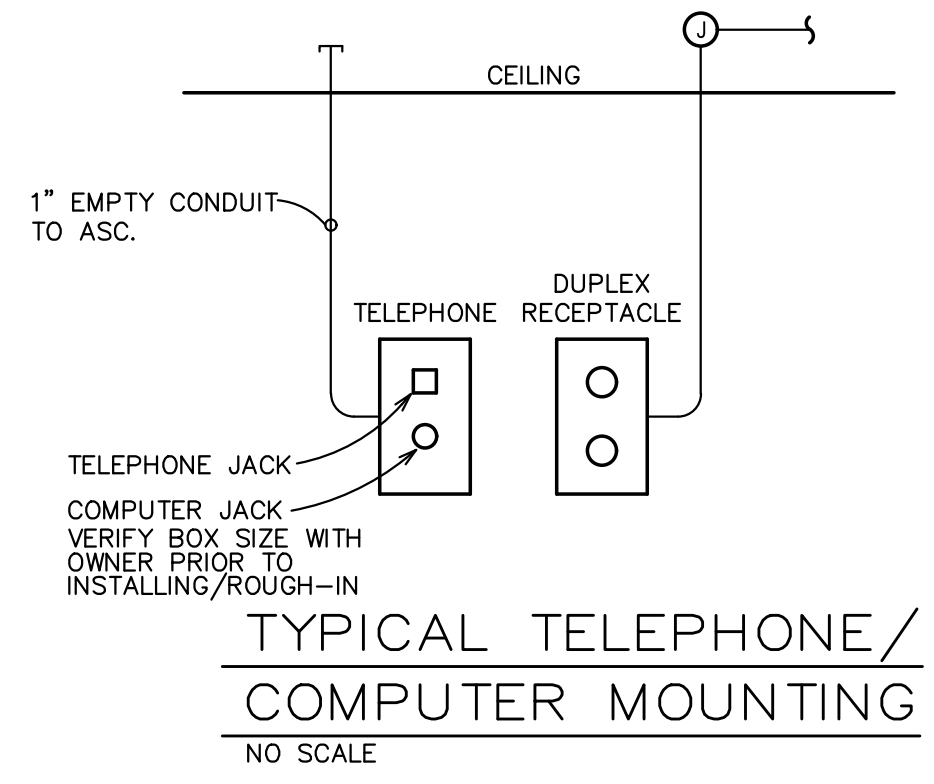
Sheet Name:
LIGHTING FLOOR PLAN

Sheet Number:
E101
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**POWER & SYSTEMS
 PROPOSED FLOOR PLAN**
 1/8" = 1'-0" A1.0

- REFERENCE NOTES:**
- 1 PROVIDE X-RAY IN USE LIGHT WARNING LIGHT TO BE CONTROLLED PER X-RAY EQUIPMENT REQUIREMENTS.
 - 2 PROVIDE AND INSTALL DOOR SWITCH. VERIFY EXACT LOCATION AND ALL REQUIREMENTS WITH X-RAY MANUFACTURER PRIOR TO ROUGH-IN.
 - 3 PROVIDE EMERGENCY STOP BUTTON FOR DISCONNECT SWITCH #1. VERIFY EXACT LOCATION AND ALL REQUIREMENTS WITH X-RAY MANUFACTURER.
 - 4 PROVIDE EMERGENCY STOP BUTTON FOR DISCONNECT SWITCH #2. VERIFY EXACT LOCATION AND ALL REQUIREMENTS WITH X-RAY MANUFACTURER.
 - 5 PROVIDE CARD READER. VERIFY ELECTRICAL REQUIREMENTS WITH MANUFACTURER. CONNECT TO DOOR SYSTEM CONTROL PANEL IN THE "IT/ MECH ROOM 127".
 - 6 EXHAUST FAN TO BE CONNECTED TO LIGHTING CIRCUIT AND CONTROLLED BY ROOM LIGHT SWITCH. VERIFY PRIOR TO INSTALLING WITH HVAC CONTRACTOR.
 - 7 DOOR OPERATED PUSH PAD CONTROL STATION.
 - 8 MOUNT TO POST - SEE ARCHITECTURAL DRAWINGS FOR ELEVATIONS AND REQUIREMENTS.



[Signature]
 ZENON KUROZIEL
 ARCHITECT
 LICENSED ARCHITECT
 AR 1980045

Revisions

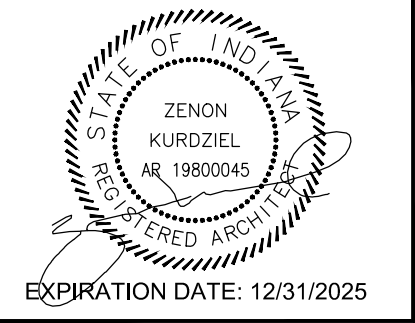
Drawing Date 8-5-2024
 Project Number 24038

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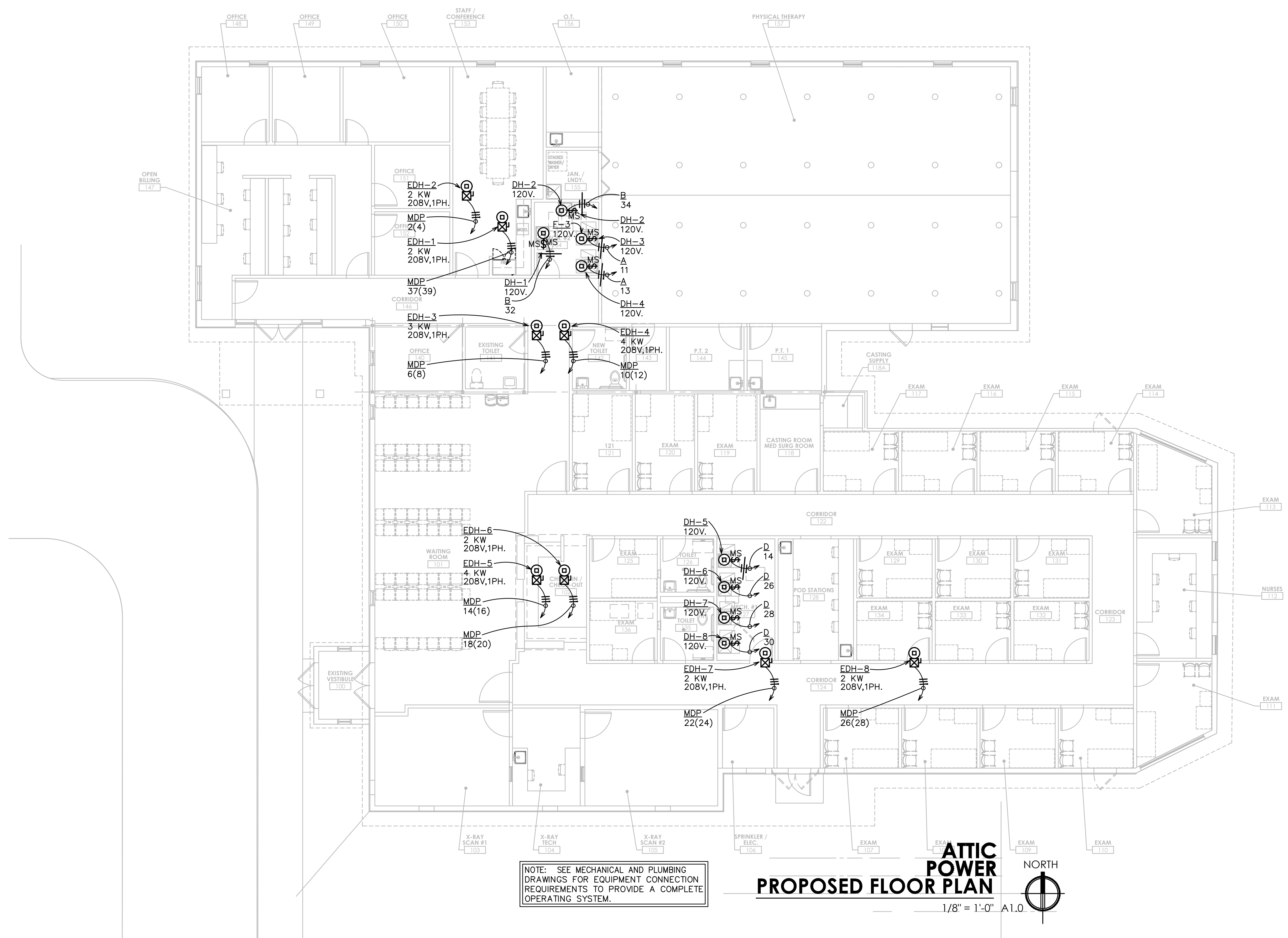
Sheet Name
ELECTRICAL POWER PLAN

Sheet Number
E102
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 web site: www.legacymdesigns.net

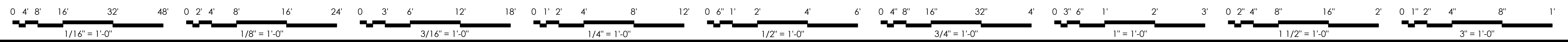
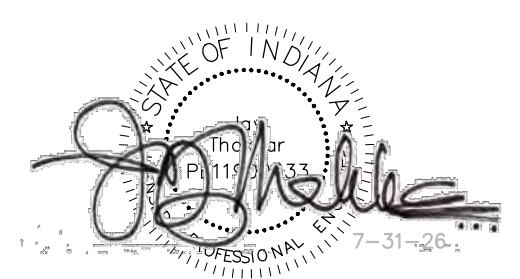


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NOTE: SEE MECHANICAL AND PLUMBING DRAWINGS FOR EQUIPMENT CONNECTION REQUIREMENTS TO PROVIDE A COMPLETE OPERATING SYSTEM.

ATTIC POWER PROPOSED FLOOR PLAN
 1/8" = 1'-0" A1.0



Revisions	

Drawing Date: 8-5-2024
 Project Number: 24038

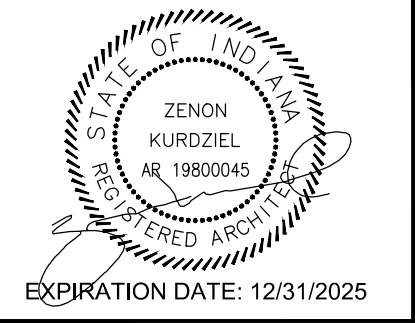
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Sheet Name: **POWER - HVAC FLOOR PLAN**

Sheet Number: **E103**
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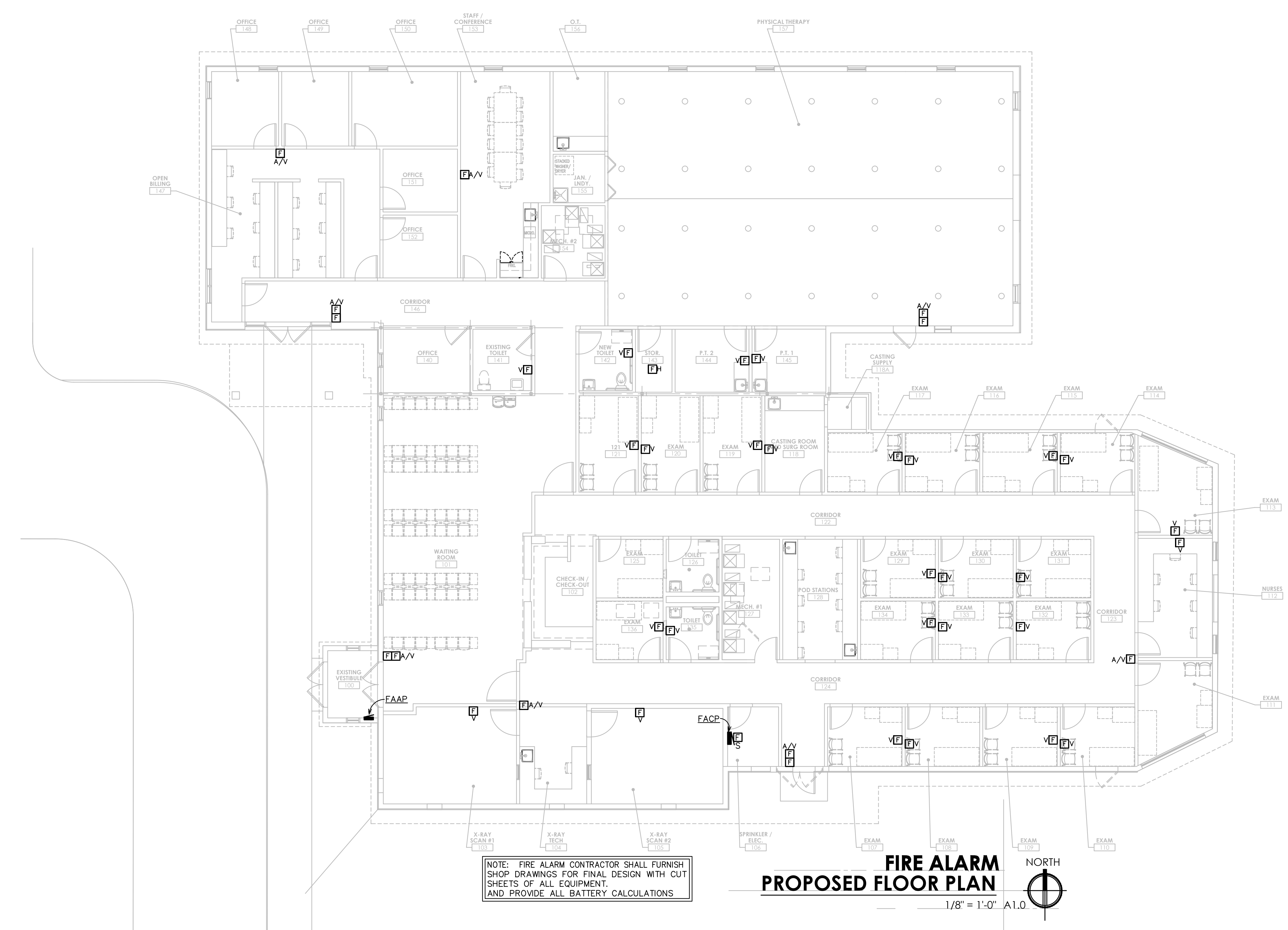
Revisions

Drawing Date: 8-5-2024
 Project Number: 24038

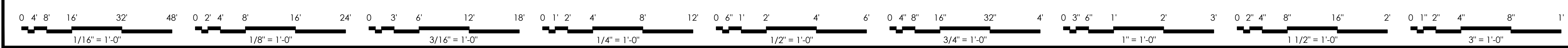
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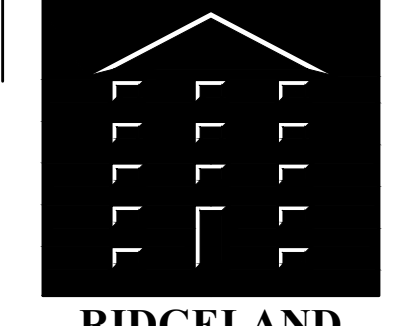
Sheet Name: FIRE ALARM FLOOR PLAN

Sheet Number: **E104**
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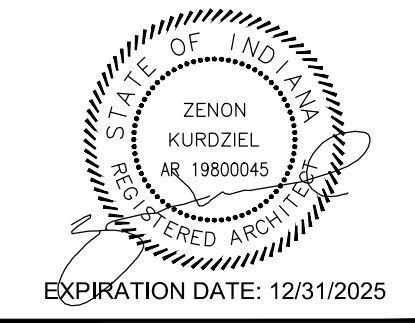


Professional Seal
 STATE OF INDIANA
 REGISTERED PROFESSIONAL ARCHITECT
 7-31-26



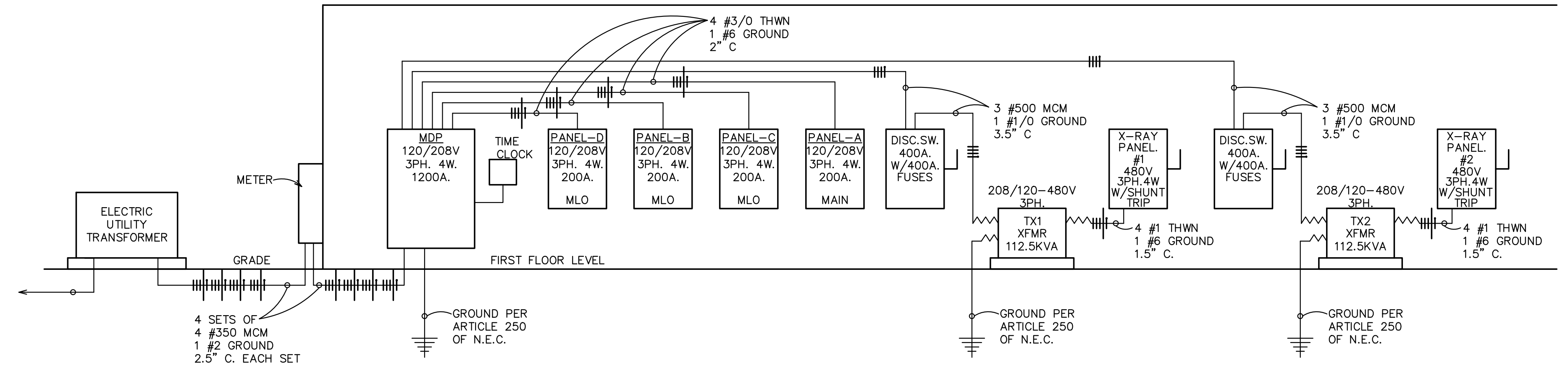


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 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321



ELECTRICAL RISER DIAGRAM
 NO SCALE PURELY DIAGRAMMATIC

PANEL DESIGNATION	WHP	PROJECT NO.
120 / 208V 3PH, 4W, 1200A.		
120 / 208 VOLT		
3 PHASE 1200 AMP MAIN BREAKER		
4 WIRE		
1 OCT 1 AMP /		
1.1A1 200 /		
1.1A2 200 /		
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PANEL DESIGNATION	WHP	PROJECT NO.
120 / 208V 3PH, 4W, 200A.		
120 / 208 VOLT		
3 PHASE 200 AMP BREAKER		
4 WIRE		
1 OCT 1 AMP /		
1.1A1 200 /		
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PANEL DESIGNATION	WHP	PROJECT NO.
120 / 208V 3PH, 4W, 200A.		
120 / 208 VOLT		
3 PHASE 200 AMP BREAKER		
4 WIRE		
1 OCT 1 AMP /		
1.1A1 200 /		
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1.1A96 200 /		
1.1A97 200 /		
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1.1A99 200 /		
1.1A100 200 /		

PANEL DESIGNATION	WHP	PROJECT NO.
120 / 208V 3PH, 4W, 200A.		
120 / 208 VOLT		
3 PHASE 200 AMP BREAKER		
4 WIRE		
1 OCT 1 AMP /		
1.1A1 200 /		
1.1A2 200 /		
1.1A3 200 /		
1.1A4 200 /		
1.1A5 200 /		
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1.1A12 200 /		
1.1A13 200 /		

ELECTRICAL SPECIFICATIONS:

- 1.01. WORK INCLUDES**
- A. Raceways.
 - B. Wires and cables.
 - C. Boxes.
 - D. Supporting devices.
- 1.02. REGULATORY REQUIREMENTS**
- A. Chicago Building Code
 1. Comply for construction and installation of basic materials.
 2. Wiring Methods: Spread of Fire or Products of Combustion.
 3. Building code for the City of Munster Underwriter's Laboratories, UL:
 - B. All basic materials listed and labeled by UL.
 - C. National Electric Code - NEC 2008
- 1.03. REFERENCED**
- A. American National Standards Institute, ANSI:
 1. C80.3: Specification for Electrical Metallic Tubing, Zinc Coated.
 - B. National Electrical Manufacturer's Association, NEMA:
 1. Enclosures: Publication 250.
 - a. Type 1: Indoor use, atmospheric conditions normal.
 - C. Underwriter's Laboratories, UL
- 1.04. PROJECT RECORD DOCUMENTS**
- A. Accurately record on mylar sepia copy of actual locations and wiring methods and "As-Built" record documents.
 - B. Submit for Architect's review.
- 1.05. DRAWINGS AND SPECIFICATIONS**
- A. With the exception of systems and equipment furnished by Owner, it is intended that work covered by Specifications and Drawings includes systems complete and operative, irrespective of whether or not every item is specifically shown on plans and/or specified. Any omission of direct reference herein to any essential item shall excuse contractor from complying with above intent.
 - B. In case of error or inconsistency, between Specifications and Drawings or within either document itself the item or arrangement of better quality, greater quantity or highest cost shall take precedence over drawings as directed by Owner. Figured dimensions supersede scaled dimensions. Contractor shall, at his expense, promptly call Owner's attention to any error, omission or inconsistency in Specifications and Drawings prior to submitting bid.
 - C. Material shall be new. Seconds and damaged materials will be rejected by Owner, who reserves the right to disapprove and reject any materials, proposed or installed which, in their opinion, fail to meet quality standards specified. Contractor shall, at his expense, remove any rejected materials and replace with approved materials.
- 2. PRODUCTS**
- 2.01. RACEWAYS**
- A. Conduit Materials, Components:
 1. Conduits:
 - a. Electrical Metallic Tubing: ANSI C80.3.
 2. Couplings:
 - a. EMT Conduit: Set screw.
- 2.02. WIRES AND CABLES**
- A. Building Wiring: 98% conductivity copper, 600 volt insulation, THWN or THHN.
 - B. Branch Circuit Wiring: Conductors smaller than #12 AWG not permitted.
 - C. Provide permanent plastic name tag indicating load fed.
- 2.03. WIRING SYSTEM IDENTIFICATION**
- A. Wire Insulation Color:
 1. 120/208 V_{LN}, 3 phase, 4 wire
 2. Phase A Black
 3. Phase B Red
 4. Phase C Blue
 5. Neutral White
 6. Ground Green
- 2.04. BOXES**
- A. Outlet Boxes: Hot dipped galvanized, 1.25 oz./sq. ft. or cadmium plated.
 1. Interior Boxes: Pressed sheet steel, with knockouts for conduit; attached lugs for locating.
 2. Ceiling Boxes: 4 inch octagon boxes for 1 fixture; including fixture studs and maximum 2 connecting conduits.
 3. Flush Mounted in Walls:
 - a. Boxes with matching plaster cover for single or two gang outlets.
 - b. Two gang box or larger for conductors, conductor joints, conduit terminations and wiring devices.
 - B. Pull Boxes and Junction Boxes: NEC metal construction; with screw- or hinged cover.
 1. Flush Mounted Pull Boxes: Overlapping covers with flush-head cover retaining screws; prime coated.
- 2.05. WRING DEVICES**
- A. Wiring Devices shall be Hubbell, Leviton, or Approved equal to those listed Underwriter's approved and N.E.C. rated. Furnish shop drawings. Refer to symbol list for scheduled wiring devices.
 - B. All receptacles must be grounded type with separate green ground wire from ground terminal on all grounded receptacle to backbox (and from backbox to ground bar in panelboard). Self-grounding, clip is not acceptable.
 - C. All duplex receptacles installed within 6 feet of a sink shall have ground fault circuit-interrupter protection.
 - D. Install wiring devices where indicated, in accordance with manufacturer's written instructions, applicable requirements of NEC and NECA's "Standard of Installation", and in accordance with recognized industry practices to ensure that products served in intended function.
 - E. All wiring devices in finished areas shall be flush mounted in recessed outlet boxes unless specifically noted otherwise. Wiring devices in unfinished spaces, mechanical, and utility areas may be either flush mounted or surface mounted as conditions dictate and as practical unless otherwise noted on plans; coordinate with Architect.
 - F. All duplex receptacle mounted in a vertical position shall be mounted with the ground opening down. Verify acceptance with Architect, Owner and local code authorities having jurisdiction before installing.
 - G. Install receptacles and switches only in electrical boxes which are clean; free from excess building materials, debris, etc.
 - H. Elevations indicated in Symbol Schedule and plans are nominal. Install to nearest block coursing, to clear equipment, or as noted.
 - I. Switches and operating devices shall not be installed higher than 48" - in compliance with handicap code requirement - where applicable. Receptacles, telephone outlets, and other power and communication output devices shall not be installed lower than 18" - in compliance with handicap code requirements - where applicable.
 - J. Coordinate with Mechanical Contractor and be responsible for assuring that wiring devices clear heating baseboard, wall, fin, cabinet units, ductwork, registers, and other HVAC equipment and appurtenances.
 - K. Coordination with Plumbing Contractor and be responsible for assuring that wiring devices clear sinks, cabinets, piping and other plumbing equipment and appurtenances.
 - L. Coordination with General and Cabinet Contractor and be responsible for assuring that wiring devices clear cabinet work, counters, shelving, etc.
 - M. Coordination with General and Cabinet Contractor and be responsible for assuring that wiring frame - latch side - with exceptions for adjacent glass light panels, etc. Contractor shall be responsible for achieving same.
- 2.06. SUPPORTING DEVICES**
- A. Conduit Supports:
 1. Single Runs: Galvanized conduit straps or ring bolt type hangers with specialty spring clips
 2. Vertical Runs: Channel support with conduit fittings.
 - B. Anchors:
 1. Hollow Masonry: Toggle bolts or spider type expansion anchors.
 2. Solid Masonry: Lead expansion anchors or preset inserts
 3. Metal Surfaces: Machine screws, bolts, or welded studs.
 4. Wood Surfaces: Wood screws.
 5. Concrete Surfaces: Self-drilling anchors or power-driven studs.
- 2.07. FIRE AND SMOKE PENETRATION SEALANT**
- A. NEC 300-21: UL rated flexible sealant.
- 2.08. CORROSION PREVENTION**
- A. Protect all metallic materials against corrosion.
 1. All equipment enclosures given rust-inhibiting treatment and standard finish by manufacturer.
 2. Ferrous Metal Parts: Hot dip galvanized, ASTM A123 or ASTM A153.
 - a. Includes anchors, bolts, braces, boxes, bodies, clamps, fittings, guards, nuts, pins, rods, shims, thimbles, washers and miscellaneous parts; other than stainless steel or non-ferrous steel or non-ferrous materials.
 - B. Isolation of Dissimilar Metals: Separate dissimilar metals with NEC approved material.

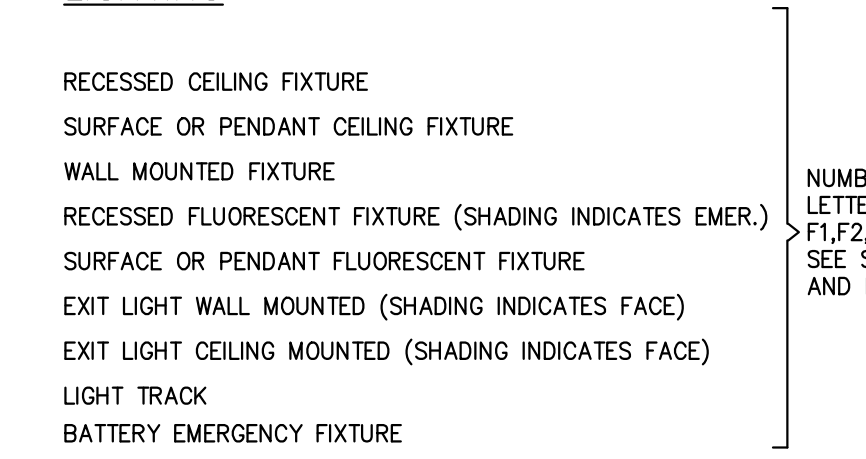
- 3. EXECUTION**
- 3.01. INSTALLATION**
- A. Drawings are diagrammatic and are intended to convey scope of work and indicate general arrangement of conduit, boxes, equipment, fixtures and other work included in contract.
- 3.02. RACEWAYS**
- A. Locations:
 1. Above-Grade Interior Locations: Electrical metallic tubing. Install liquid-tight flexible conduit where subjected to one or more of the following conditions:
 - a. Moist or humid atmosphere where condensate can be expected or accumulate.
 - b. Corrosive atmosphere.
 - c. Subjected to water spray.
 - d. Subjected to dripping oil, grease, or water.
 2. Size raceways in accordance with NEC for TW wire regardless of wire type used.
 - B. Installation of Conduit:
 1. Install conduit and tubing products indicated, in accordance with manufacturer's written instructions and requirements of NEC and NECA, Standard of Installation.
 2. Conceal conduit in all areas excluding mechanical, electrical and other unfinished rooms, connections to motors, and connections to surface cabinets.
 3. Attach conduit with clamps.
 4. Coordinate installation of conduit in partition work.
 5. Install conduit free from dents and bruises.
 6. Plug conduit ends to prevent entry of dirt or moisture.
 7. Clean out conduit before installation of conductor(s).
 8. After conduit routing to avoid structural obstructions, minimize cross-overs; and where possible, install raceways above water and steam piping.
 9. Allow minimum 6 inch clearance at flues, steam pipes, and heat sources.
 10. Route all exposed conduits parallel or perpendicular to building lines.
 11. Fire rated walls, partitions, floors, ceiling penetrations:
 - a. Flexible conduit sufficient length to avoid vibration transmission.
 - b. Building Expansion Joints: Install UL listed expansion fittings complete with grounding jumpers where conduits cross building expansion joints.
 - c. Provide bends or offsets in conduit adjacent to building expansion joints where conduit is installed above suspended ceiling.
- 3.03. RACEWAY SYSTEM IDENTIFICATION**
- A. Identify all exposed conduits and boxes as follows:
 1. Boxes, on face of coverplate.
 - a. Power - Show panel, voltage and circuit number, pointed circuit/switch leg/systems wiring, etc., unless noted otherwise on drawings.
 - b. Systems - Indicate system, such as sound, clock, telephone, etc. (black letters, yellow background).
 - B. Identify all conduit and boxes above accessible ceilings.
 1. Follow steps A.1. above.
- 3.04. WIRE AND CABLES**
- A. Installation:
 1. Make conductor length for parallel feeders identical.
 2. Lace or clip groups of feeder conductors at distribution center, pull boxes and wireways.
 3. Conductor size indicated on drawings indicates ampacity requirements using copper conductors.
- 3.05. BOXES**
- A. Installation:
 1. Provide knockout closures to cap unused knockout holes where blanks have been removed.
 2. Support all boxes independently of conduit.
 3. Outlet Boxes:
 - a. Flush mount outlet boxes in areas other than mechanical rooms, electrical rooms, and above removable ceilings.
 - b. Masonry Walls:
 - 1) Adjust position of outlets in finished masonry walls to suit masonry course lines.
 - 2) Coordinate cutting of masonry walls to achieve neat openings for boxes.
 - 3) Locate boxes in masonry walls so that only corner need be cut from masonry units.
 - c. Do not use sectional boxes unless approved by Architect/Engineer.
 - d. Adjust outlet mounting height to grade with specified location for equipment served.
 4. Pull Boxes and Junction Boxes: Locate pull boxes and junction boxes above removable ceilings or in electrical rooms, utility rooms, or storage areas.
- 3.06. SUPPORTING DEVICES**
- A. Installation:
 1. Maintain headroom, neat mechanical appearance, and support equipment loads specified.
- 3.07. PRESENT EQUIPMENT AND CONSTRUCTION**
- A. Examination
 1. Before submitting his bid, Contractor shall visit the present site, building, areas being relocated and adjacent areas not being relocated.
 2. Contractor shall contact the Owner to carefully verify all present external and internal exposed, concealed, buried points of connections as to location, size, type, depth, operating characteristics, etc., including, but not limited to the following:
 - a. Present building construction and conditions.
 - b. Present interior electrical distribution system.
 - c. Present electrical operating characteristics.
 - d. New connections to present equipment and/or services.
 - e. All areas/locations of demolition and adjoining spaces.
 - f. All areas/locations for relocated/reinstalled equipment.
 3. Verify that abandoned wiring, equipment, piping, boxes, etc. serve only abandoned facilities and remove.
 4. If contractor finds that any present point of points of connection to present facilities/equipment are incorrectly shown on plans or incorrectly specified, he shall notify the Owner, in writing, at least 10 (ten) working days before bids are due to be submitted.
 5. Owner will issue an addendum to all contractors, calling their attention to revised point or points of connection, as required.
 6. If electrical contractors fail to notify the Owner, in writing, as outlined above, it will be expected that their bid includes everything required to provide proper connections to all present points of connection as they actually exist or as they will be provided.
 7. All modifications, relocations, replacements, additional runs and extensions, etc. will be provided by electrical contractors without increase in contract price.
 - B. Following removed present equipment and materials which are in good condition (or are placed in good condition), suitable, meet requirements of these specifications, and are approved in writing by engineer, or called for, may be reused (PXN-PN).
 1. Lighting fixtures.
 - C. Removed conduit and wire must not be reused.
 - D. Any of above equipment which is not reused and following removed present equipment shall become property of contractor, and shall be removed from premises by him (PX).
 1. Equipment so designated on drawings.
 - E. Following present equipment shall be carefully removed, intact, match, marked, in-so-far as is practical, shall remain property of Owner, and shall be delivered to Owner outside of building where directed by the engineer (PX-D0).
 1. Equipment so designated on drawings.
 - F. Contractor shall:
 1. Provide new floors under removed present equipment and where called for.
 2. Repair floors under and walls adjacent to removed equipment, to match adjacent construction.

- 3. Fill in present chases which are no longer required and neatly patch to match adjacent construction.
 - 4. Cut openings required for:
 - a. His work.
 - b. Admission of new equipment.
 - c. Removal of present equipment.
 - d. New connection to present construction.
 - 5. Patch and repair unused present holes and openings, and those left by the removal of present equipment and admission of new equipment.
 - 6. Patch and repair present equipment, and building construction which has been cut, removed, disturbed or marred as required to restore it to original condition before being disturbed.
 - G. Unused openings in enclosures in conduits, boxes, cabinets, and panels shall be filled.
 - H. Present painted construction which is marred shall be repaired same as new construction.
 - I. Certain abbreviations or symbols, when applied to present (or existing) line, device or equipment, shall have the following meanings:
 - NC New connections to present piping, device, wiring, equipment, etc. Install, test, cover, joint, etc., same as new work.
 - P To remain unchanged. If change cannot be avoided, change "P" to "PX", at no increase in contract price. Verify location.
 - PX To be completely removed, including unneeded connections, piping, ducts, wiring, bases, etc., of every kind. Unused openings plugged or capped, tested, covered, painted same as new work. Other disturbed work of every kind restored, patched, tested, covered, painted, etc., to equal original condition. Removed materials must not be reused unless otherwise specified or directed by engineer.
 - PX-D0 Fixtures, equipment, devices, etc., removed intact, as far as practical, identified as required, and delivered to owner outside of building as directed by architect/engineer. Associated boxes, wiring, conduits, etc., to be "PX".
 - PXR Removed, cleaned and restored to good operating condition and reinstalled, same as new, in original position. If reconditioning is impractical, provide new device/equipment, as approved by engineer, at no increase to contract price. If adjacent walls, floors, ceiling, etc., are damaged, they shall be repaired by electrical contractor as directed by architect.
 - PXN Removed, cleaned and restored to good operating condition and reinstalled at point/location marked "PXN". Boxes, wiring conduit, etc., to be "PX".
 - PN Completely reinstall device, line, equipment, etc., removed, at new location, same as new work. Reconnect to present circuit/switch leg/systems wiring, etc., unless noted otherwise on drawings. Re-lamp light fixtures for (PN) fixtures as required.
 - J. Work of every division shall be coordinated with all other work and with present conditions, so that:
 1. Electrical services to be present buildings or portions of buildings will not be interrupted during periods when those services are needed.
 - K. New conduit services new and/or present electrical devices in finished rooms or spaces shall be concealed in finished rooms, where possible, or shall be run in adjoining unfinished rooms, shafts, chambers, cloak rooms, etc., where exposed conduit is permitted in finished present rooms by Architect in writing, it shall be wiremold, with matching boxes, run as inconspicuously as possible, in straight lines, parallel to walls and ceilings, with neat bends. Unneeded boxes, switches and wiring shall be completely removed and openings patched. In present rooms or locations where new lighting equipment is shown, present fixtures, boxes, wiring, switches, etc., shall be removed as per note "PX", unless another symbol is shown on drawings. Where specifically approved by Architect in writing, boxes may be permitted to remain and be provided with new flush covers, extending over entire wall opening.
 - L. Lighting fixtures which are reused shall have lens and reflectors cleaned. All fixtures shall be provided with new lamps.
 - M. Work shall be coordinated so that heating, plumbing, electrical and telephone services to the present building will not be interrupted, except as approved by the Architect.
- 3.09. CLEANING**
- A. Clean systems internally before placing in operation. Clean externally and restore damaged surfaces.
 - B. Lubricate equipment per manufacturer's instructions. Where - lubricating points are not easily accessible, provide extensions.
- 4. FIRE ALARM AND DETECTION SYSTEM**
- A. Electrical Contractor provide a zone, none-coded, continuous sounding, U.L. listed, electrically supervised system, fully installed and tested.
 - B. Requirements of regulatory agencies:
 1. National Fire Protection Association (NFPA):
 - a. NFPA-70 National Electrical Code (NEC)
 - b. NFPA-101 Life Safety Code
 - c. Local codes and ordinances
 - d. Underwriters Laboratories, Inc. (UL)
 2. National Fire Protection Association (NFPA):
 - a. NFPA-72A Local Protection Signaling Systems
 - b. NFPA-72B Auxiliary Signaling Systems
 - c. Remote Station System
 - d. NFPA-72D Proprietary Signaling System
 - e. NFPA-72E Automatic Fire Detectors
 3. National Electrical Manufacturer's Association (NEMA).
 - a. All equipment specified shall be U.L. listed and cross listed for use with the main fire alarm control panel and shall bear the same manufacturer's name on the main control panel as well as all the remote devices. Systems having equipment with various manufacturer's names will not be acceptable. The Fire Alarm System specified is manufactured by the Simplex Time Recorder Co. Catalog and model numbers are intended to establish the type and quality of equipment and system design as well as exact operating features required. The manufacturer's specification sheets of each item so listed shall be considered to be part of the specification and binding therein.
 4. Acceptable as equal:
 - a. Pyrotechnic
 - b. Gamewell
 - c. Edwards
 - d. Fire-Lite
 - C. System Operation
 - a. Actuation of any alarm initiating device shall cause all alarm devices to sound continuously. Alarm initiating device shall be grouped in zones. A zone in alarm conditions shall be indicated by a red LED on the proper zone module.
 - b. Actuation of any alarm initiating device shall automatically cause the following operations when furnished as a part of this system.
 - (1) Sound or audio-visual devices continuously (NOTE: A one (1) minute inhibit shall not allow the audible signals to be prematurely silenced until one (1) minute after the alarm has sounded.
 - (2) Indicate on the control panel the zone initiating the alarm and/or trouble condition.
 - (3) Indicate the zone of the reporting device on the remote annunciator.
 - (4) Be arranged to transmit a signal to the local fire department (via leased telephone lines).

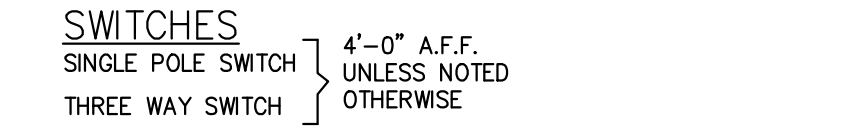
ELECTRICAL SYMBOLS

TYPICAL: ALL MOUNTING HEIGHTS ARE TO DEVICE CENTERLINE U.N.O.

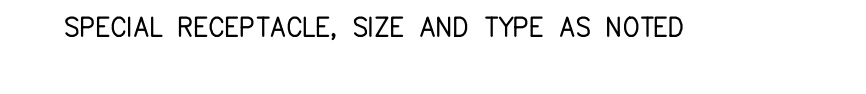
LIGHTING



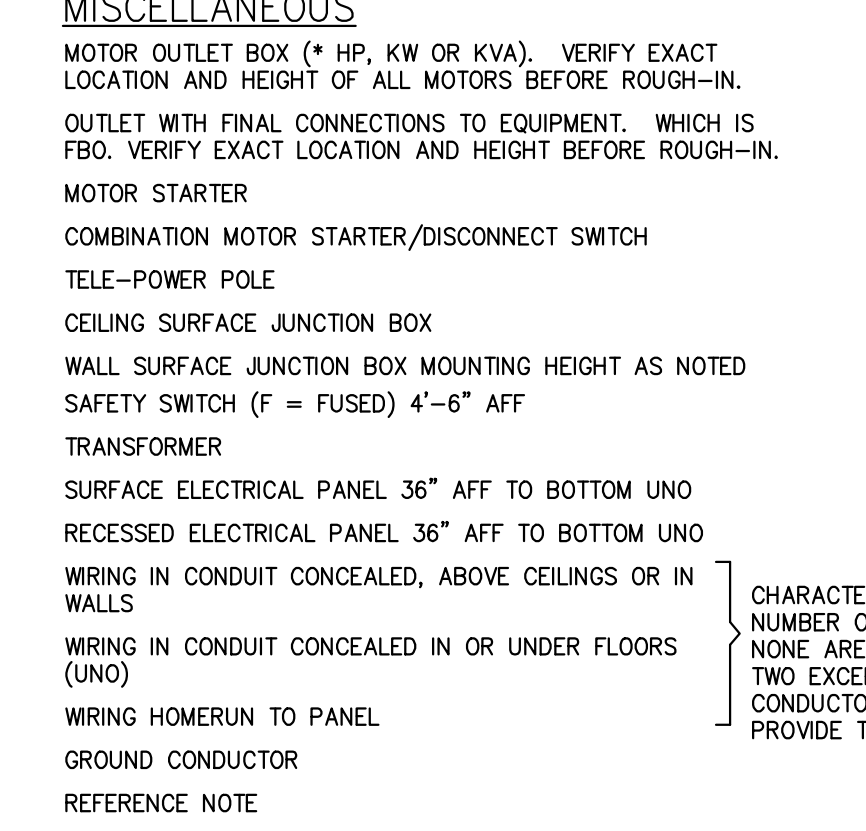
NUMBER=CIRCUIT LETTER = SWITCH FT,F2,F3 = FIXTURE SEE SPECIFICATIONS AND FIXTURE SCHEDULE



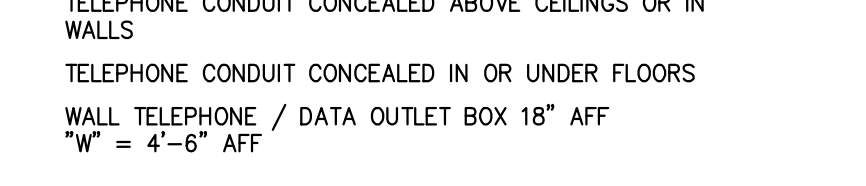
4"-0" A.F.F. UNLESS NOTED OTHERWISE
18" AFF UNLESS NOTED OTHERWISE



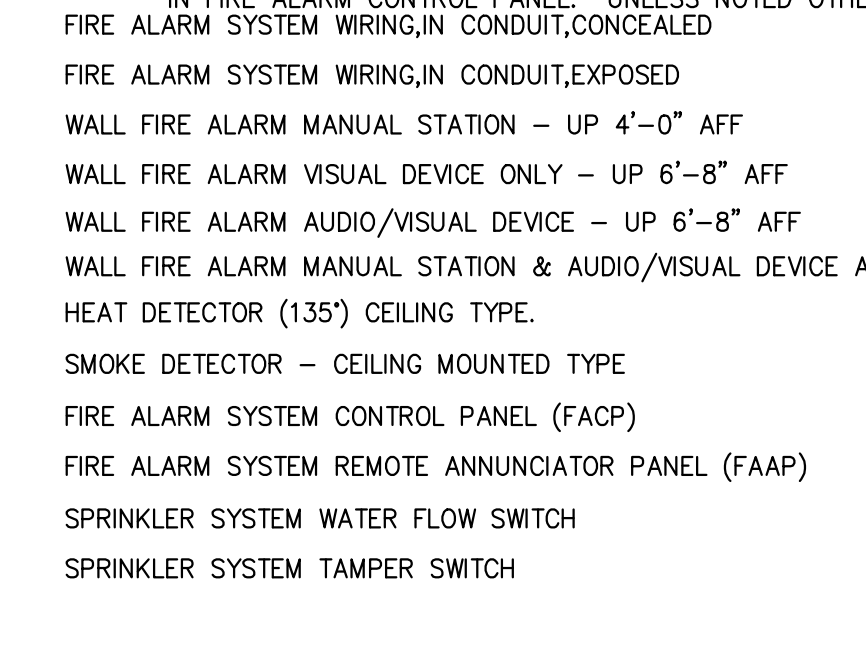
MISCELLANEOUS



TELEPHONE SYSTEM



FIRE ALARM SYSTEM



ELECTRICAL ABBREVIATIONS

AC	ABOVE COUNTER	NEC	NATIONAL ELECTRICAL CODE
AF	ABOVE FINISHED FLOOR	NIC	NOT IN CONTRACT
AM	AMMETER	NL	NIGHT LIGHT
AMP	AMPERES	PH	PHASE (#)
AMP	AMPLIFIER	PNL	PANEL
ASC	ABOVE SUSPENDED CEILING	SS	STAINLESS STEEL
CON	CONDUIT	SW	SWITCH
EC	ELECTRICAL CONTRACTOR	SWBD	SWITCHBOARD
EC	EMERGENCY	XMR	TRANSFORMER
EWC	ELECTRIC WATER COOLER	TFA	TO FLOOR ABOVE
EWH	ELECTRIC WATER HEATER	TFB	TO FLOOR BELOW
FBO	FURNISHED BY OTHER THAT ELECTRICAL CONTRACTOR, COMPLETELY WIRED, WITH FINAL CONNECTIONS TO EQUIPMENT AND DEVICES, BY ELECTRICAL CONTRACTOR.	TS	TIME SWITCH
FLA	FULL LOAD AMP	TRM	TERMINAL BOARD
FU	FURNISHED WITH UNIT	TTC	TELEPHONE TERMINAL CABINET UNLESS NOTED OTHERWISE
FUI	GROUND FAULT INTERRUPTER	UPS	UNINTERRUPTIBLE POWER SUPPLY
HP	HORSEPOWER	V	VOLT
HT	HEIGHT	VM	VOLTMETER
IBEC	INSTALLED BY EC	W	WIRE
IWS	IN WALL SPACE	WPEC	WIRED BY EC
JB	JUNCTION BOX	WP	WEATHERPROOF
KW	KILOWATTS		
KWHR	KILOWATT-HOUR		
LTS	LIGHTING		
LV	LOW VOLTAGE		
MAG	MAGNETIC		
MAX	MAXIMUM		
MDP	MAIN DISTRIBUTION PANEL		
MFR	MANUFACTURER		
MIN	MINIMUM		
MNT	MOUNTED		
MTG	MOUNTING		

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ROCKFORD, ILLINOIS 61108
Professional Design Firm No. 184-003483
815-484-4708 Phone 815-484-4710 Fax
e-mail legacy@legacymdesigns.net
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www.ridgelandassociates.com

STATE OF INDIANA
DENON KURDZIEL
AR 19800048
REGISTERED ARCHITECT
EXPIRATION DATE: 12/31/2025

EANTHONY, INC.
Complete Construction Services
708-802-8230

OSNI BUILDING RENOVATION AND SITE WORK
9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

Revisions	

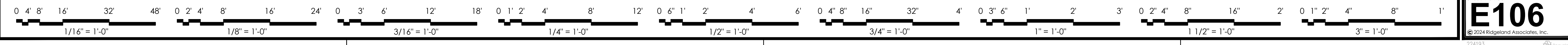
Drawing Date: 8-5-2024
Project Number: 24038

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STATE OF INDIANA
Professional Seal
DENON KURDZIEL
ARCHITECT
No. 19800048

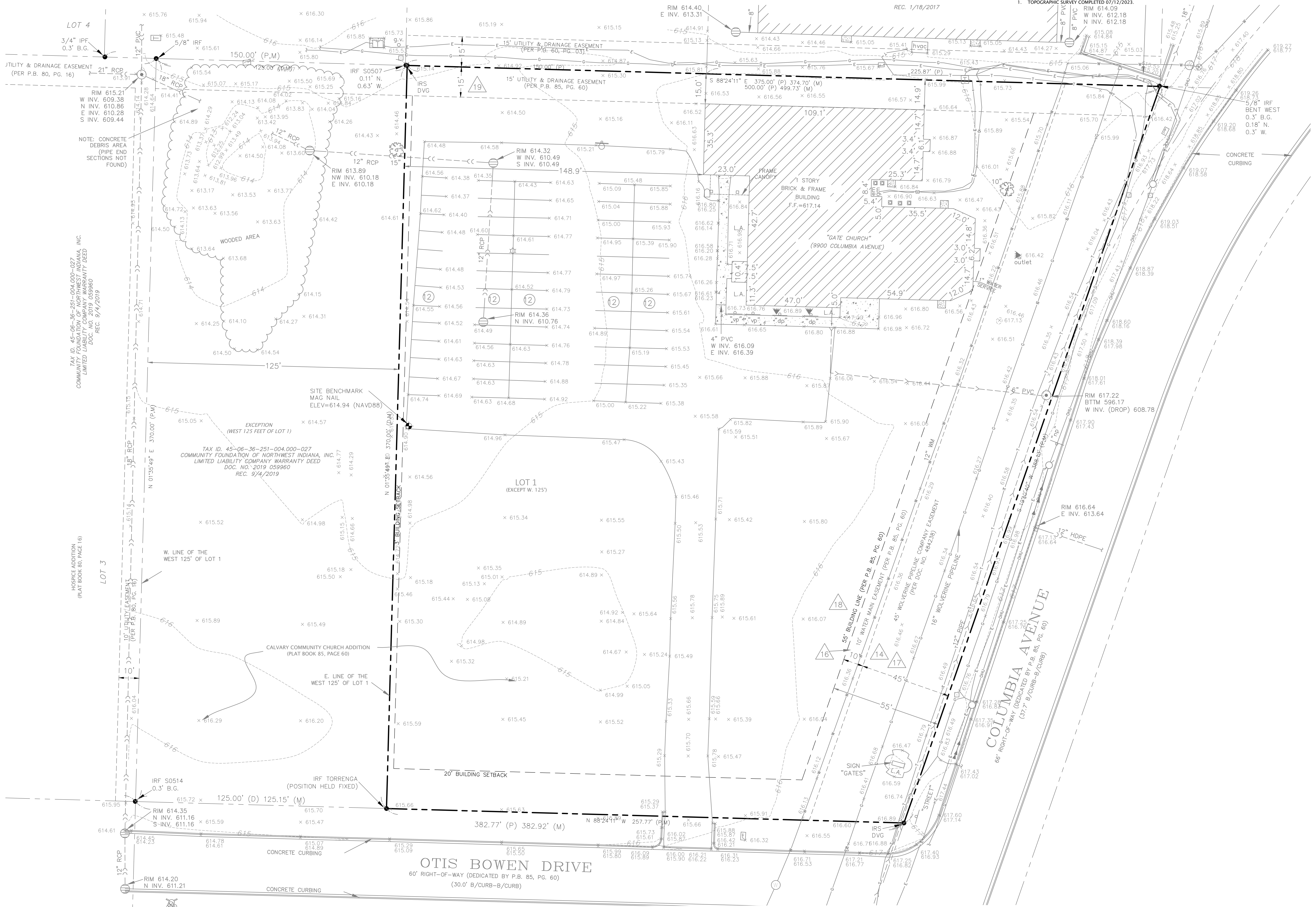
Sheet Name: ELECTRICAL SPECIFICATIONS AND SYMBOLS

Sheet Number: **E106**
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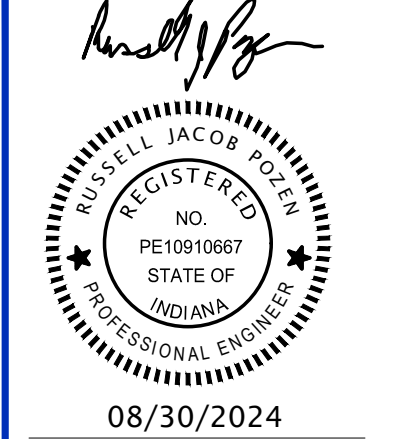


DATE OF SURVEY

1. TOPOGRAPHIC SURVEY COMPLETED 07/12/2023.



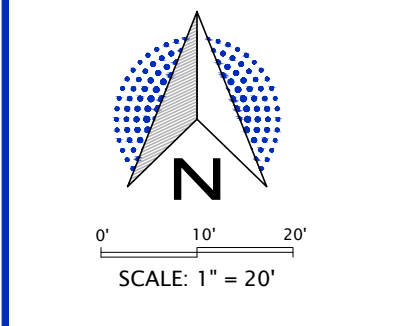
1155 Troutwine Road
 Crown Point, IN 46307
 P: (219) 662-7710
 F: (219) 662-2740
 www.dvgteam.com



OSNI
 730 45TH AVE
 MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG
 Existing Conditions



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DESIGN BY RJP	DATE 10/12/23
PROJECT NO. 23-0031	
C101	

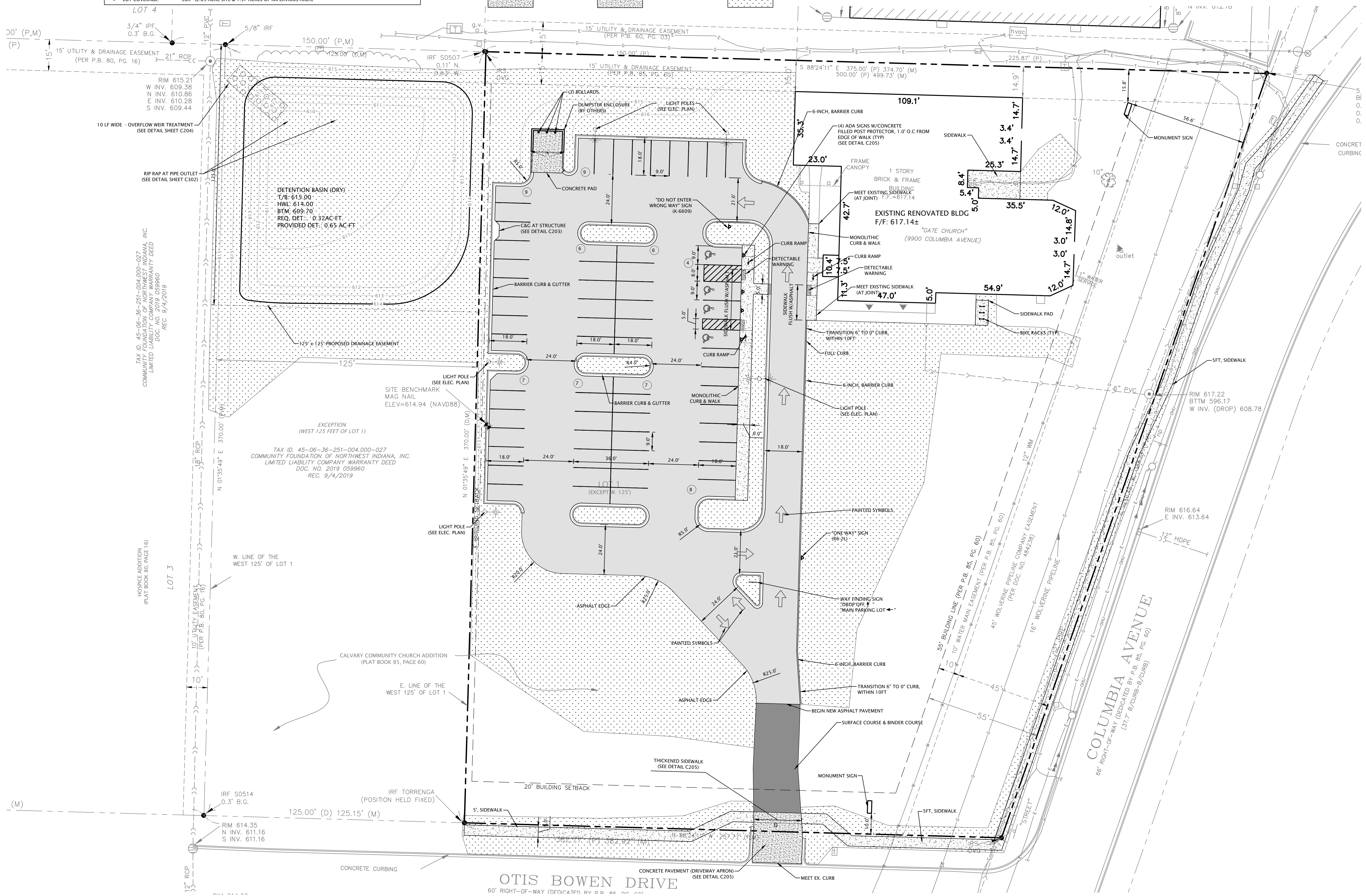
SITE DATA	
ZONING:	CD-4-B
BUILDING AREA:	8,000± SQ. FT. (RENOVATED EX. BLDG)
PARKING REQUIRED:	46 SPACES REQUIRED TOTAL & INCLUDES 3 ADA (MEDICAL CLINIC: 5.7 SPACE PER 1,000SF FLOOR AREA)
PARKING PROVIDED:	63 SPACES TOTAL (INCLUDES 4 ADA SPACES)
LOT COVERAGE:	58% (2.69 ACRE SITE & 1.57 ACRES OF IMPERVIOUS AREA)

LEGEND

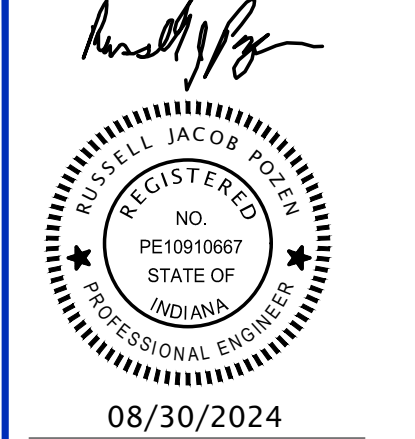
	SURFACE & BINDER COURSE		CONCRETE SIDEWALK		ASPHALT PAVEMENT		STRIPING (PAINT, 4" WIDE)
	CONCRETE PAVEMENT (DRIVEWAY APRON)		CONCRETE PAD		4" (MIN) TOPSOIL & SEEDING/LANDSCAPING (SEE LANDSCAPE PLAN)		BARRIER CURB & GUTTER
							EXPANSION JOINT
							TOOLED CONSTRUCTION JOINT

NOTES

1. DIMENSIONING SHALL BE TO FACE OF CURB; RADII SHALL BE BACK OF CURB UNLESS OTHERWISE NOTED.



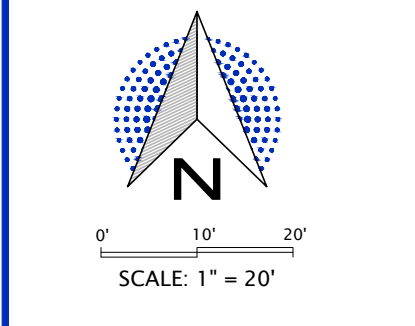
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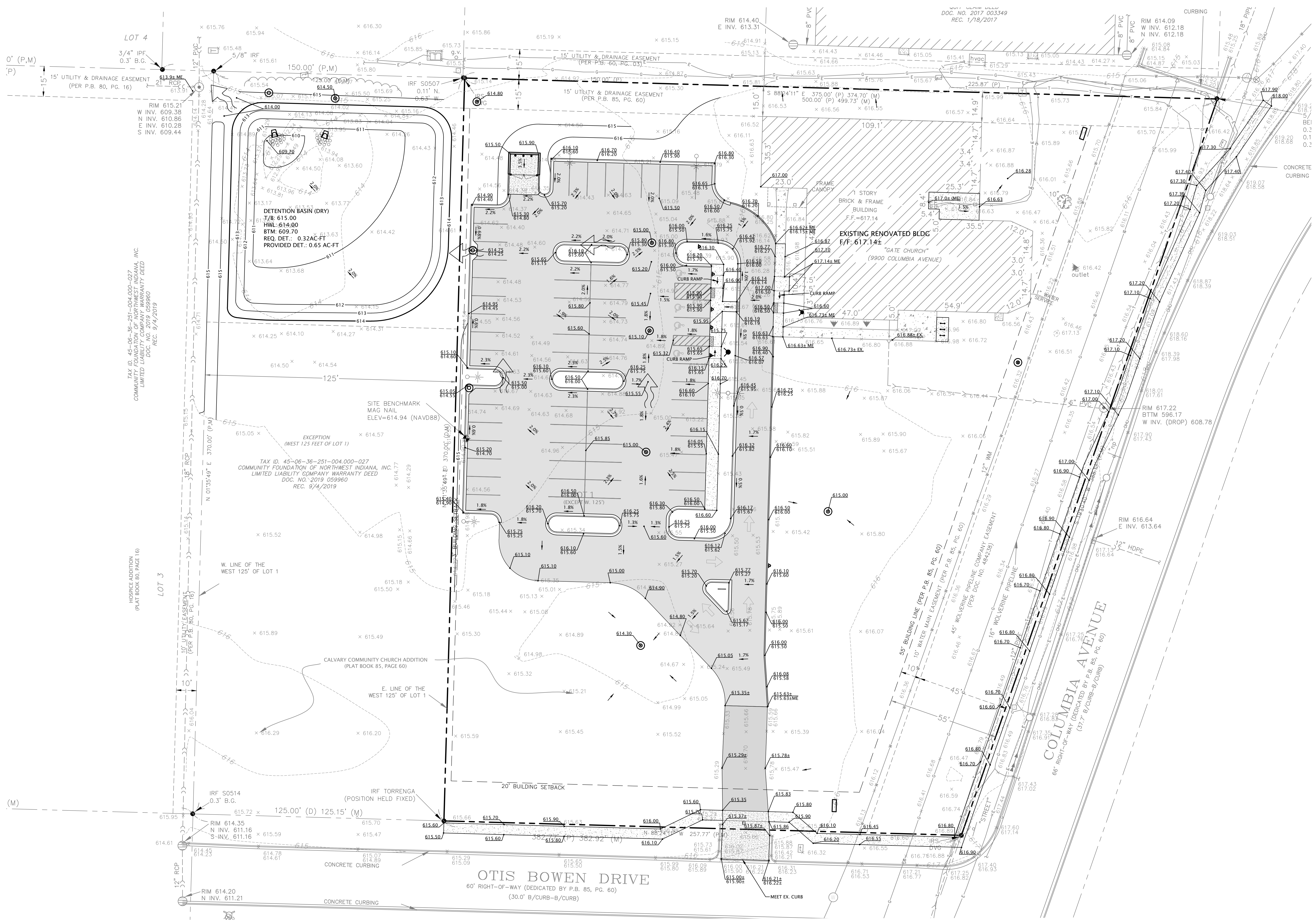
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DATE:	REVISIONS AND NOTES:

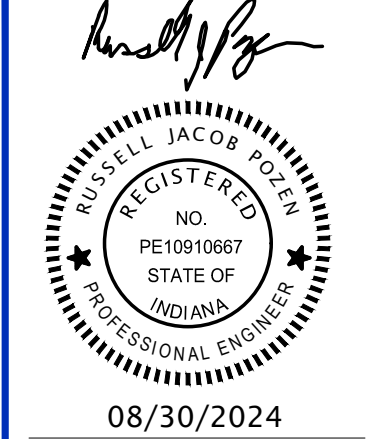
OSNI MEDICAL OFFICE BLDG
 Site Plan



DESIGN BY	RJP	DATE	10/12/23
PROJECT NO.	23-0031		
C103			



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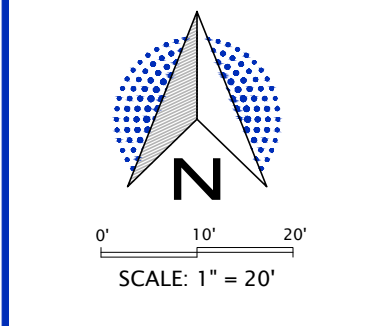


08/30/2024

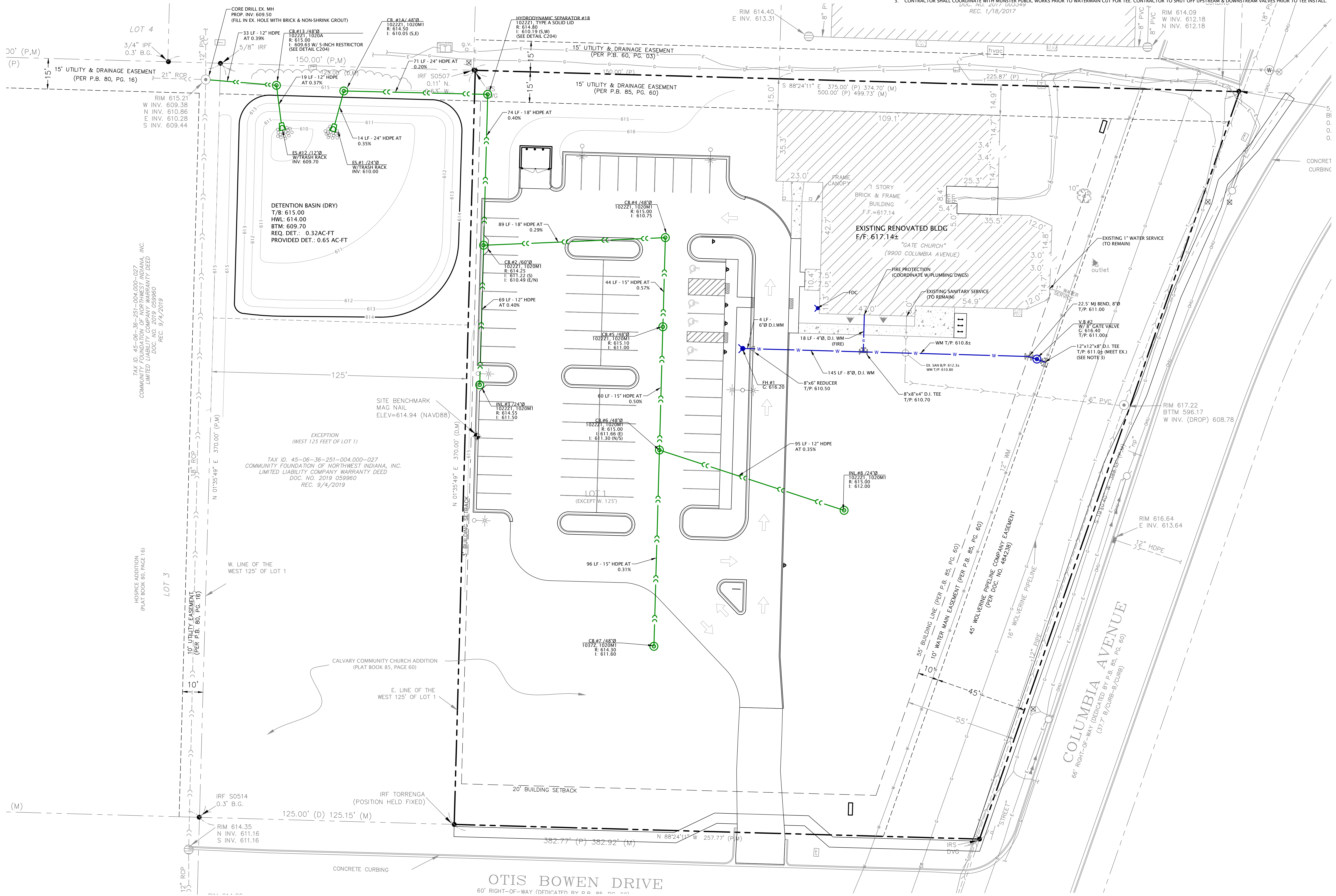
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 MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG
 Grading Plan



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 DESIGN BY: RJP
 DATE: 10/12/23
 PROJECT NO.: 23-0031
C104

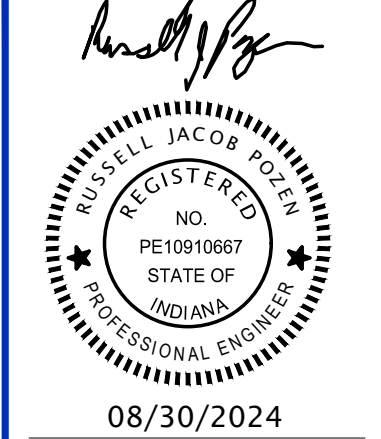


NOTES

1. ALL DRAIN TILES THAT ACTIVELY SERVICE OFF-SITE AREAS SHOULD BE TIED INTO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. ALL DRAIN TILES DEEMED TO BE NON-FUNCTIONING OR ONLY SERVICE THE SUBJECT PROPERTY SHOULD BE REMOVED IN THEIR ENTIRETY. NO DRAIN TILES SHALL BE ABANDONED IN-PLACE.
2. FINAL LOCATION OF WATER SERVICE AND SANITARY SEWER STUBS TO BE LOCATED BY OWNER.
3. CONTRACTOR SHALL COORDINATE WITH MUNSTER PUBLIC WORKS PRIOR TO WATERMAIN CUT FOR TEE. CONTRACTOR TO SHUT OFF UPSTREAM & DOWNSTREAM VALVES PRIOR TO TEE INSTALL.



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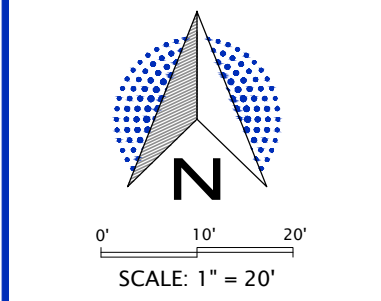


08/30/2024

OSNI
 730 45TH AVE
 MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG
 Utility Plan

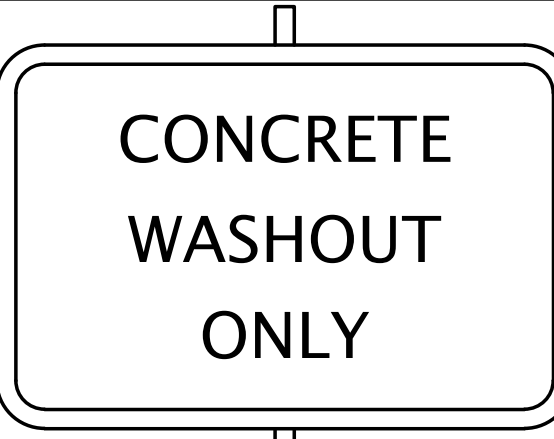


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 PROJECT NO.: 23-0031
C105

**TOTAL DISTURBANCE
AREA = 2.00 ac**

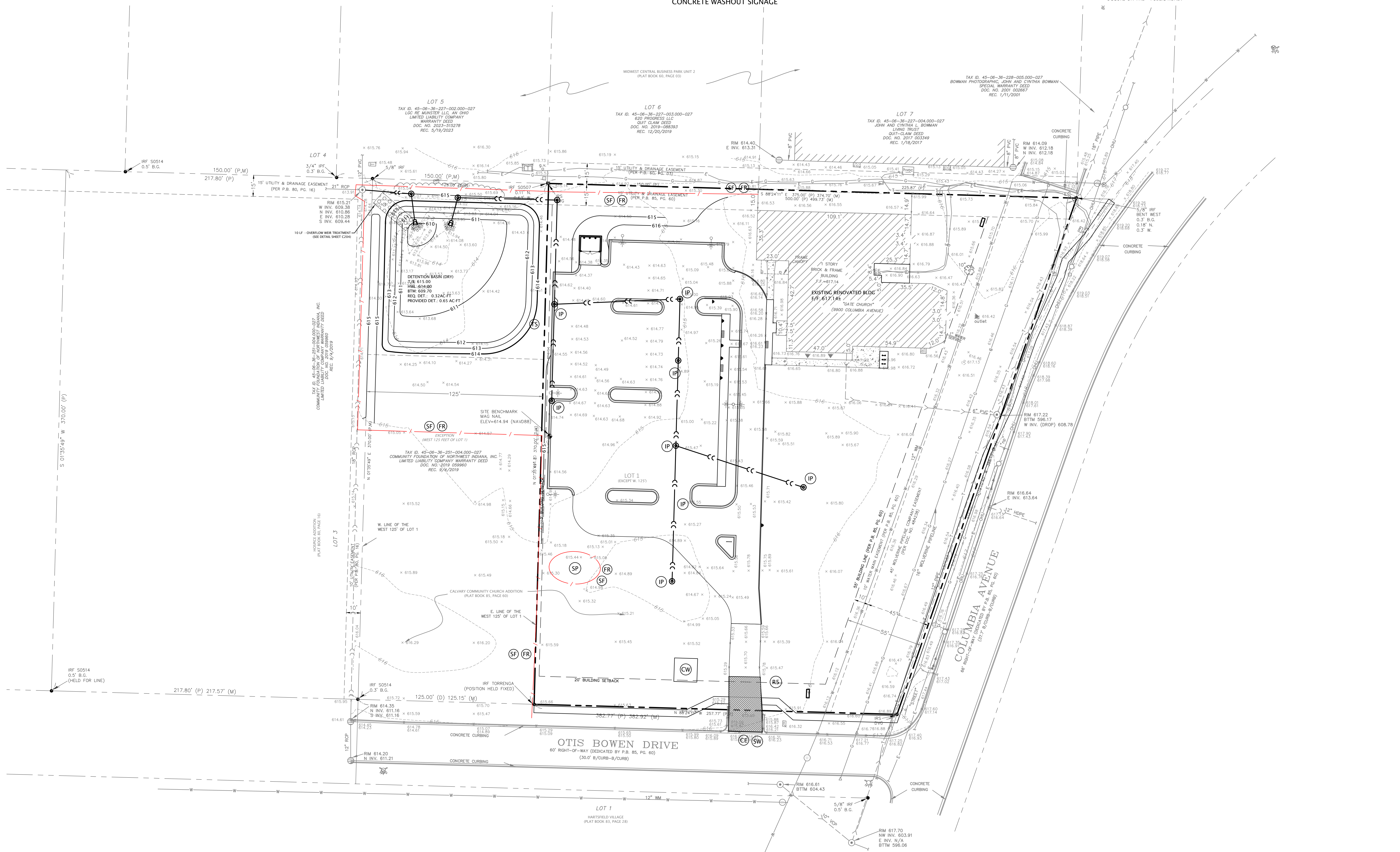
LEGEND

- CE TEMPORARY CONSTRUCTION ENTRANCE
- IP INLET BARRIER PROTECTION
- TS TEMPORARY/PERMANENT SEEDING
- SF FR SILT FENCE/FIBER ROLLS (MAY BE USED INTERCHANGABLY WHERE REQUIRED)
- SW STREET SWEEPING
- CW CONCRETE WASHOUT
- R5 BUILDING & STORMWATER PERMITS
- SP STOCKPILE

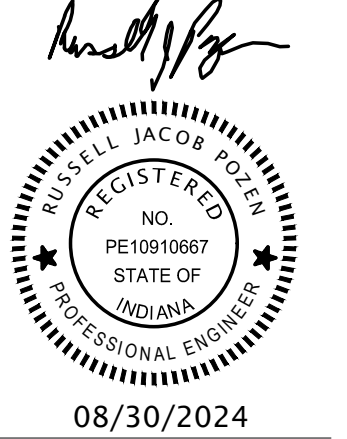


NOTES

1. THE SITE CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN DURING DEMOLITION AND CONSTRUCTION ACTIVITIES. MEASURES MUST BE IMPLEMENTED PRIOR TO BEGINNING CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE AND/OR CLEANING TO THE STRUCTURE OR FEATURE. CORRECTIVE WORK INCURRED BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE S.W.P.P.P. ANY FINES OR PUNITIVE MEASURES INCURRED BY THE PROJECT DUE TO FAILURE TO COMPLY WITH THE S.W.P.P.P. ARE THE RESPONSIBILITY OF THE CONTRACTOR. THESE COSTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL NOT BE CONSIDERED AN EXTRA.
4. DURING THE COURSE OF CONSTRUCTION, THE LOCAL ENFORCEMENT OF THE S.W.P.P.P. MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES TO BE INSTALLED TO ADDRESS SITE-SPECIFIC ITEMS NOT ANTICIPATED BY THIS PLAN. THESE ITEMS ARE CONSIDERED AN EXTRA TO THE CONTRACT, BUT ONLY TO THE EXTENT OF INITIAL INSTALLATION. CORRECTIVE WORK AND MAINTENANCE SHALL BE CONSIDERED INCIDENTAL AND SHALL NOT BE CONSIDERED AN EXTRA.
5. THE SITE CONTRACTOR SHALL INSTALL THE CONSTRUCTION ENTRANCE AND PLACE PERIMETER SILT FENCING/FIBER ROLLS PRIOR TO COMMENCING ANY SOIL DISTURBANCE. SEE SITE PLAN FOR LOCATIONS. THE CONSTRUCTION ENTRANCE SHALL SERVE AS SITE ACCESS FOR ALL CONSTRUCTION TRAFFIC INGRESS AND EGRESS TO THE PROJECT SITE.
6. THE SOIL STOCKPILE SHALL BE PROTECTED BY SILT FENCE/FIBER ROLLS SURROUNDING THE PILE AND THE PILE SHALL BE TEMPORARILY SEEDDED IF THE STOCKPILE REMAINS DORMANT FOR GREATER THAN 7 DAYS. THE PILE SHALL BE STABILIZED WITHIN 14 DAYS.
7. DURING SOIL-DISTURBING ACTIVITIES, THE CONTRACTOR SHALL CREATE DIVERSION SWALES AND INSTALL DITCH CHECKS SO THAT ALL SITE RUNOFF PASSES THROUGH AN EROSION CONTROL MEASURE PRIOR TO BEING DISCHARGED OFF-SITE.
8. UPON COMPLETION OF THE ROUGH GRADING, ALL AREAS AFFECTED BY CONSTRUCTION SHALL BE TEMPORARILY SEEDDED IF THEY WILL REMAIN DORMANT FOR GREATER THAN 7 DAYS. THESE AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF REMAINING DORMANT AND EROSION CONTROL BLANKETS SHALL BE INSTALLED ON SIDE SLOPES AS SHOWN ON THE PLANS.
9. CONTRACTOR SHALL PERFORM STREET SWEEPING WHENEVER TRACKING OF MUD, DIRT, AND CONSTRUCTION DEBRIS OCCURS ON THE PUBLIC ROAD.



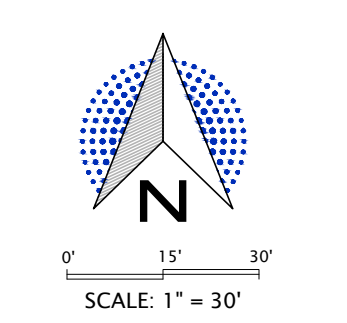
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DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG
Storm Water Pollution Prevention Plan



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DESIGN BY RJP	DATE 10/12/23
PROJECT NO. 23-0031	
C106	

GENERAL STORM WATER MANAGEMENT NOTES

Soil erosion and sedimentation control shall protect against loss of soil by the action of water, ice and wind.

Erosion control shall be in accordance with Munster Storm Water Ordinance & Storm Water Technical Manual & "The Indiana Storm Water Quality Manual".

There are two main elements for Storm Water Quality: Construction Site Stormwater Runoff Control and Post-Construction Stormwater Management. The contractor shall provide Construction Site Stormwater Runoff Control as required and construct the Post-Construction Stormwater Management features as shown on these plans.

The contractor shall be responsible for maintaining site conditions such that Stormwater Runoff Control is provided throughout construction. Surface water runoff management, ie: temporary ditches, swales, bypass pumping, and erosion control measures shall be constructed and maintained as required by construction activity and these items are considered incidental to the contract. These items shall be included in the base contract.

Upon the completion of the site work the contractor shall remove the Construction Site Stormwater Runoff Control measures and install the Post-Construction Stormwater Management measures.

Those Stormwater Runoff Control measures such as detention ponds that will also serve in the Post-Construction Stormwater Management Plan shall have construction sediment removed and full functionality restored upon the completion of the Site construction.

Each Construction Site Stormwater Runoff Control measure shall be installed immediately following the construction of the structure or feature in which the measure is intended to protect.

The contractor is responsible for any damage and/or cleaning to the structure or feature. Corrective work incurred by the contractor shall be considered incidental to the contract.

The contractor is responsible for compliance with the S.W.P.P.P. Any fines or punitive measures incurred by the project due to failure to comply with the S.W.P.P.P. are the responsibility of the contractor. These costs shall be considered incidental to the contract, and shall not be considered an extra.

During the course of construction the S.W.P.P.P. may require additional erosion control measures to be installed to address site specific items not anticipated by this plan due to construction schedule or sequencing. It is not the intent of this plan to direct the schedule or sequencing beyond the general construction sequence. Any stormwater runoff control measures required due to construction methodology, sequencing, etc. are incidental to the contract. Corrective work and maintenance shall also be considered incidental, and shall not be considered an extra.

All items shown on these detail sheets are standard details and describe standard installation practices. Not all of these Stormwater Runoff Control measures will be utilized. See the erosion control plan for location and types of erosion control measures utilized. The stormwater checklist document will serve to further outline the S.W.P.P.P. for this project and it is considered part of the plan documents. In the event that site conditions require additional or different erosion control measures, these details serve to describe some acceptable methods.

POTENTIAL CONSTRUCTION POLLUTANT SOURCES

Potential pollutants that could enter the stormwater during construction include exposed soils, fuel and oil from leaking heavy equipment and vehicles. Equipment has the potential to leak fuel throughout the disturbed areas, or wherever construction is occurring. The contractors will inspect equipment before initiating construction and routinely thereafter. If leaks are discovered, they will be repaired before the equipment is used or new equipment will be brought to the site.

Bulk Fuel storage on-site can leak and thereby be a pollutant. All Fuel storage tanks shall meet the minimum requirements of the Fuel Storage requirements.

Exposed soils also have potential for being eroded by water and wind and must be prevented from entering the stormwater system. The contractor will install silt fence, riprap, and ditch checks in areas designated on the site development plans.

MATERIAL HANDLING AND STORAGE

Concrete Washout:

- Concrete wastewater liquid shall be fully evaporated prior to the planned capacity of the washout structure capacity being exceeded. Liquid must be disposed of offsite as wastewater.
- Concrete wastewater liquid that has not solidified may be pumped out into a secondary lined container or into a tanker and taken to an approved disposal facility.
- Concrete wastewater shall not be allowed to leak onto the ground, run into storm drains, or into any body of water. Where washout wastewater leaks onto the ground, all contaminated soils shall be excavated and disposed of properly.
- Allow concrete wastes to set. Break up and properly dispose of hardened wastes. Upon removal of waste, inspect the structure.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose of in the trash.
- Do not dump excess concrete onsite, except in designated areas.
- When concrete washout areas are no longer required, close the concrete washout systems. Dispose of all hardened concrete and other materials used to construct the system. Backfill, grade, and stabilize any holes, depressions, and other land disturbances associated with the system.

SOLID WASTE MANAGEMENT

- Select designated waste collection areas onsite.
- Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project. Provide containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow. Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.
- Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. Collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.
- Construction debris and waste should be removed from the site biweekly or more frequently as needed.
- Construction material visible to the public should be stored or stacked in an orderly manner.
- Stormwater run-on should be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measure to elevate waste from site surfaces.
- Solid waste storage areas should be located at least 50 ft. from drainage facilities and watercourses and should not be located in area prone to flooding or ponding.
- Inspect construction waste area weekly.

CHEMICALS AND LIQUIDS STORAGE AND HANDLING

- Store materials in manufacturer's containers.
- Maintain Safety Data Sheets (SDS) on all products.
- Store materials in a weatherproof/vandal resistant locker or building. Keep materials away from flammable sources.
- Follow manufacturer's instructions for the proper use and storage of all materials.
- Do not perform washing of applicators or containers of solvent, paint, grout, stucco, or other materials near or into a waterway or stormwater inlet. Wash water is to be disposed offsite as wastewater.
- Tightly seal and store paint containers and curing compounds when not required for use.
- Do not discharge excess paint to a waterway or storm system. Properly dispose of excess paint according to the manufacturer's instructions and in accordance with all Federal, State, and local regulations.
- Provide secondary containment for aboveground storage tanks or storage areas containing hazardous materials that are located outside.
- Remove collected liquid in the secondary containment area within 72 hours of its discovery to maintain the capacity.

Fertilizers

- Apply fertilizers only in the minimum amounts recommended by the manufacturer, as indicated from a soil test, or per the Indiana Stormwater Quality Manual.
- Work fertilizers into the soil to limit exposure to stormwater.
- Do not apply immediately prior to precipitation events.
- Store fertilizers in a covered area and transfer partially used bags to a sealable container to avoid spills.

Equipment and Vehicle Washing

- As feasible, perform washing offsite in a covered facility with an impervious floor and drains connected to the sanitary sewer.
- Use a dedicated site for washing. Locate wash areas at least 50 feet from stormwater inlets or water bodies.
- Do not discharge wash water if using soaps, solvents, or detergents. Only non-contaminated wash water may be discharged to stormwater.
- Inspect equipment and vehicles for leaks or worn hoses prior to washing.
- Properly dispose of contaminated wash water.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL SUMMARY OF BASIC PRINCIPLES

- Keep disturbed area as small as possible.
- Stabilize and/or protect disturbed areas as soon as possible.
- Keep storm water runoff velocities low.
- Retain sediment within immediate construction area.

The purpose of this plan is to specify methods for construction site stormwater runoff control.

All soil erosion and sedimentation control devices shall be regularly maintained by the contractor through the duration of the project. Collected silt and sedimentation shall be removed as required to maintain the effectiveness of the silt traps or sedimentation control devices. The contractor shall replace filter materials which have become ineffective due to contamination or physical deterioration. The contractor shall inspect all stormwater runoff control devices weekly and after all storm events.

The contractor shall have a log of maintenance and inspections, to be available at the site upon request of Local and State Inspectors.

If possible no grubbing should take place within 30' of an active watercourse.

GENERAL CONSTRUCTION SEQUENCE

- Installation/implementation of storm water quality measures.
- Site Clearing/demolition activities.
- Topsoil removal and stockpiling.
- Mass grading.
- Installation of underground utilities.
- Construction of dry-bottom storm water pond.
- Installation of curb and sidewalk.
- Construction of asphalt.
- Final grading.
- Permanent seeding/sod.

STORMWATER QUALITY CONSTRUCTION SEQUENCE

The sequence of when each measure will be implemented is summarized below.

- Post signed CSDP NOI, NPDES Permit number, CSDP NOS (when available), contact information for the site, municipal stormwater permit, and location where construction plans may be obtained in a visible location at entrance to site.
- Construct gravel construction entrance from the street to the building pad prior to construction.
- Install silt fence/fiber rolls prior to construction at construction limits.
- Construct refueling area and concrete washout area prior to construction.
- Install inlet protection at all inlets on property.
- Perform topsoil removal and stockpiling. Soil stockpiles created on site to be protected from erosion with silt fence around the base.
- Perform mass grading of the site subgrade.
- Construct dry-bottom storm water pond to help provide the required storage needed to capture and treat storm water runoff.
- Establish permanent seeding on banks of pond to prevent the banks from degrading.
- Construct diversion swales where required/shown to divert large amounts of runoff area to the storm water pond until the storm sewer system is installed.
- Establish temporary seeding of diversion swales.
- Install pipe outlet/outfall from storm water pond to existing storm sewer connection.
- Establish connection between new storm sewer and existing storm sewer.
- Install underground utilities.
- Upon completion of the rough grading, all areas affected by construction shall be temporarily seeded if they will remain dormant for greater than 7 days. These areas shall be stabilized within 14 days of remaining dormant and erosion control blankets shall be installed on side slopes as shown on the plans.
- Re-seed any areas disturbed by construction and utilities installation with temporary seed mix within 3 days of completion of disturbance.
- Grade site to final elevations.
- Install curb and sidewalk.
- Construct asphalt.
- Install permanent seeding or sod.
- Maintain temporary erosion control features until construction is complete.
- Remove temporary erosion control measures once permanent vegetative cover has been established.
- Submit the the Notice of Termination for the Construction Stormwater General (CSDP) permit.

See attached details for acceptable erosion and sedimentation control installation methods.

TYPES OF CONTROL DEVICES

The Construction Site Stormwater Runoff Control Plan involves the use of four types of control devices to manage runoff thereby assuring that runoff meets the current requirements for stormwater quality.

- Erosion Control
 - Chemical Stabilization
 - Geotextiles
 - Scour Stop
 - Riprap
 - Mulching
 - Soil Roughening
 - Topsoil Utilization
 - Seeding
 - Sodding
- Runoff Control
 - Check Dams
 - Temporary Diversion Dikes
 - GeoRidge Ditch Berms
- Sediment Control
 - Polymer Systems (Floc Logs)
 - Fiber Rolls
 - Sediment Basins
 - Dewatering Bags
 - Silt Fence
 - Storm Drain Inlet Protection
 - Construction Entrances
 - Construction Entrance Mud Mats
- Material Management (housekeeping)
 - Concrete Washouts
 - Spill Prevention and Control Plan
 - Fuel Storage
 - Stockpiles
 - Temporary Facilities
 - Material Handling and Storage

SELF MONITORING PROGRAM

The contractor shall perform inspections weekly and after each storm event of 0.5" or more throughout the construction process for all Construction Site Stormwater Runoff Control measures.

See the Maintenance Section under each measure, or follow the manufacturers recommendations for routine maintenance.

The attached self monitoring form shall be used to monitor the Construction Site Stormwater Runoff Control measures. A binder of the weekly forms shall be kept and available upon request.

The contractors will inspect equipment before initiating construction and routinely thereafter to assure that mechanical equipment is not polluting the stormwater runoff.

SELF MONITORING FORM

Date: _____
 Project: _____
 Inspected by: _____
 Type of Inspection: Scheduled Weekly Rain Event

CONSTRUCTION SITE INSPECTION AND MAINTENANCE LOG (To be Completed by Property Owner or Agent)

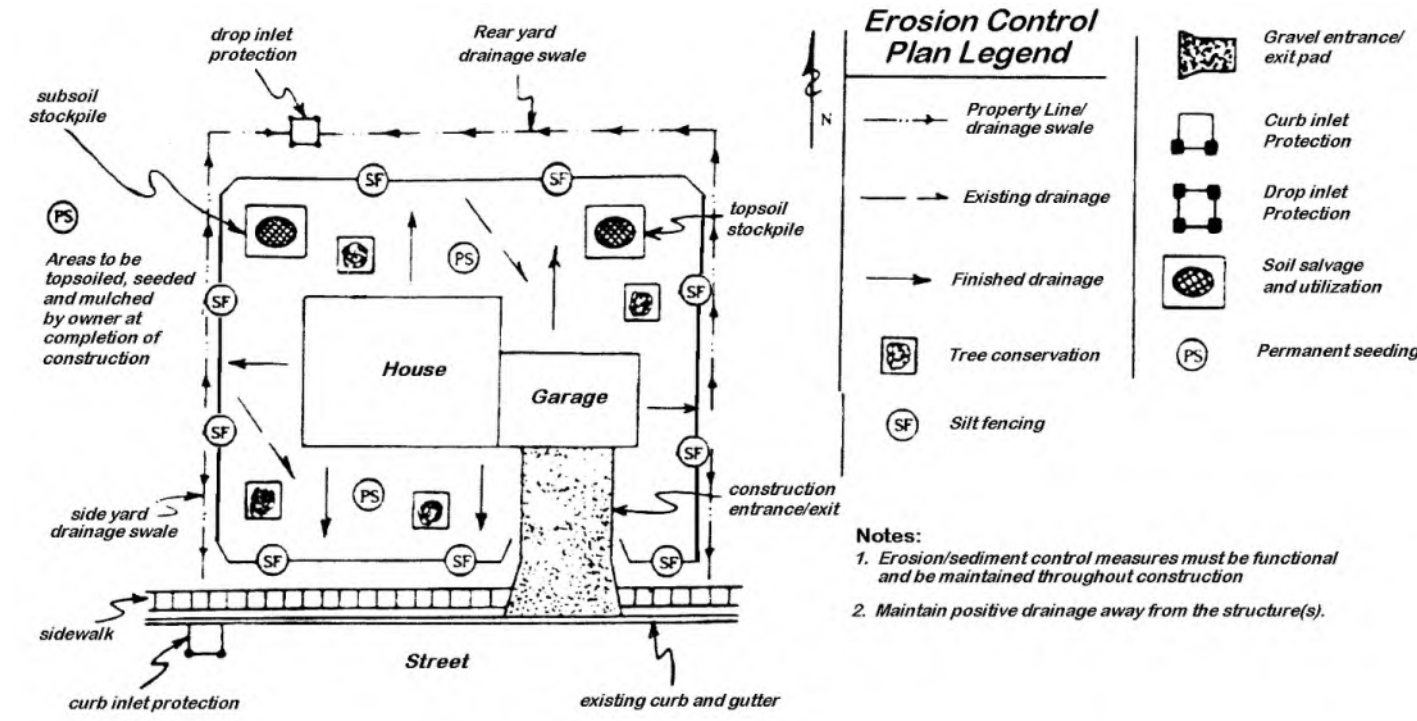
All stormwater pollution prevention BMPs shall be inspected and maintained as needed to ensure continued performance of their intended function during construction and shall continue until the entire site has been stabilized and a Notice of Termination has been issued. An inspection of the project site must be completed by the end of the next business day following each measurable storm event. If there are no measurable storm events within a given week, the site should be monitored at least once in that week. Maintenance and repair shall be conducted in accordance with the accepted site plans. This log shall be kept as a permanent record and must be made available to the Municipal Engineer, in an organized fashion, within forty-eight (48) hours upon request.

Yes	No	N/A	
			1. Are all sediment control barriers, inlet protection and silt fences in place and functioning properly?
			2. Are all erodible slopes protected from erosion through the implementation of acceptable soil stabilization practices?
			3. Are all dewatering structures functioning properly?
			4. Are all discharge points free of any noticeable pollutant discharges?
			5. Are all discharge points free of any noticeable erosion or sediment transport?
			6. Are designated equipment washout areas properly sited, clearly marked, and being utilized?
			7. Are construction staging and parking areas restricted to areas designated as such on the plans?
			8. Are temporary soil stockpiles in approved areas and properly protected?
			9. Are construction entrances properly installed and being used and maintained?
			10. Are "Do Not Disturb" areas designated on plan sheets clearly marked on-site and avoided?
			11. Are public roads at intersections with site access roads being kept clear of sediment, debris, and mud?
			12. Is spill response equipment on-site, logically located, and easily accessed in an emergency?
			13. Are emergency response procedures and contact information clearly posted?
			14. Is solid waste properly contained?
			15. Is a stable access provided to the solid waste storage and pick-up area?
			16. Are hazardous materials, waste or otherwise, being properly handled and stored?
			17. Have previously recommended corrective actions been implemented?

If you answered "no" to any of the above questions, describe any corrective action which must be taken to remedy the problem and when the corrective actions are to be completed.

SAMPLE EROSION/SEDIMENT CONTROL PRACTICE PLAN

FOR A TYPICAL ONE OR TWO FAMILY DWELLING UNDER CONSTRUCTION



POST-CONSTRUCTION STORMWATER MANAGEMENT PLAN

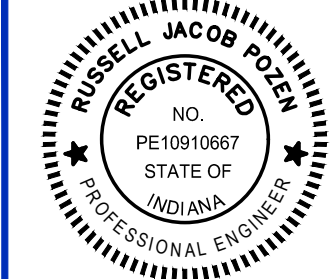
- After construction is completed, including buildings, parking lots constructed, and landscaping, the property owner will take possession of the property. When the property becomes occupied, it is no longer the responsibility of the developer to maintain the site. The responsibility for maintaining the permanent erosion and sediment control measures belongs to the current owner/s of the property. Pollutants associated with the proposed land use will most likely be very typical of commercial/retail developments. Most expected pollutants will be associated with automobiles: oil, grease, antifreeze, brake dust, rubber fragments, gasoline, diesel fuel, metals, and improper disposal of trash. It is the responsibility of the property owner/s or owners association to provide routine maintenance. Some maintenance items may include trimming vegetation, picking up litter, monitoring and cleaning catch basins, pond outlet structure and culverts. The sediment control basins protecting the stormwater quality of the site will require periodic cleaning of sediments that accumulate. After vegetation has been established, temporary erosion and sediment control measures such as silt fence and straw bales will be removed by the installing contractor.

- The plans make use of a detention pond system and green space to control the pollutants that occur after construction activities conclude.
- The post-construction stormwater quality measures will be installed as a part of the normal construction activities for the site. They shall be fully operational, and complete at the completion of construction.
- All storm water run-off shall be controlled by restrictors in the outfall pipes constructed as part of these engineering plans. The stormwater quality measures shall minimize the pollutants from stormwater run-off and therefore minimize adverse impacts to the receiving streams and riparian habitats.
- Green spaces - The green space areas of the site should receive routine fertilizing, watering, mowing and trimming to maintain a healthy landscape.
- Catch basins - Catch basins should be routinely inspected for build up of sediment. Mechanical cleaners or hand cleaning will be required to maintain the function of the catch basin.
- Storm drain flushing - In the event that the storm drains cease to function properly due to excessive sediment buildup, flushing of the storm drains may be required.
- Trees
- Native re-vegetation
- Pre-cast Storm Drain Covers
- Grass swales - Grass swales should receive routine fertilizing, watering, mowing and trimming to maintain a healthy landscape.



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[Handwritten Signature]



08/30/2024

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MUNSTER, IN 46321

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730 45TH AVE
MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:										
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OSNI MEDICAL OFFICE BLDG
 Stormwater Pollution
 Prevention Plan Details

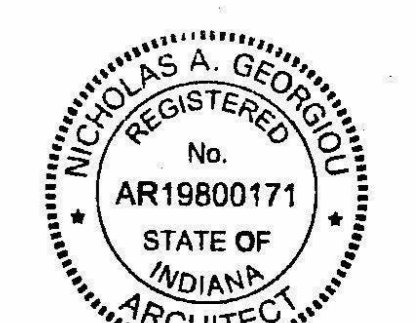
DESIGN BY	DATE
DVG	10/12/23
PROJECT NO.	23-0031

C301

NO SCALE

DVG Team Inc. has prepared this erosion and sedimentation control plan for the owner/developer in accordance with the known requirements and ordinances. It is the responsibility of the owner/developer for compliance with this erosion and sedimentation control plan and the related attachments by all subcontractors and consultants that perform work on the project site. The owner/developer is responsible for the routine inspection and maintenance of the erosion and sediment control measures. DVG Team Inc. is not responsible for the enforcement or compliance of the Erosion and Sediment Control Plan. Any additional erosion or sediment control measures beyond those specified in this plan, for unforeseen or unexpected situations, which may be required by the regulatory agencies shall be the responsibility of the owner/developer to implement.

SEAL



Nicholas A. Georgiou

PROJECT
OSNI BUILDING RENOVATION & SITE WORK
9900 COLUMBIA AVE
MUNSTER, INDIANA 46321

#	DATE	DESCRIPTION
0205/2024	0205/2024	ISSUE FOR 50% REVIEW
0311/2024	0311/2024	ISSUE FOR PERMIT/BID

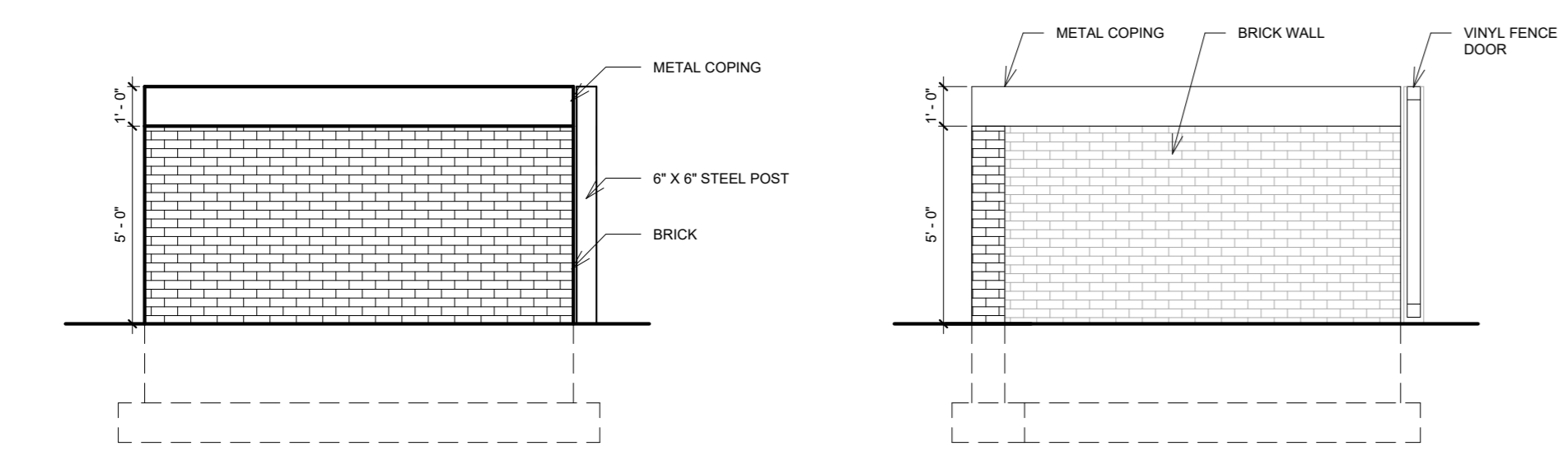
PROJECT NO:
CAD DWG FILE:
DRAWN BY:
SHEET TITLE:

ARCHITECTURAL SITE PLAN

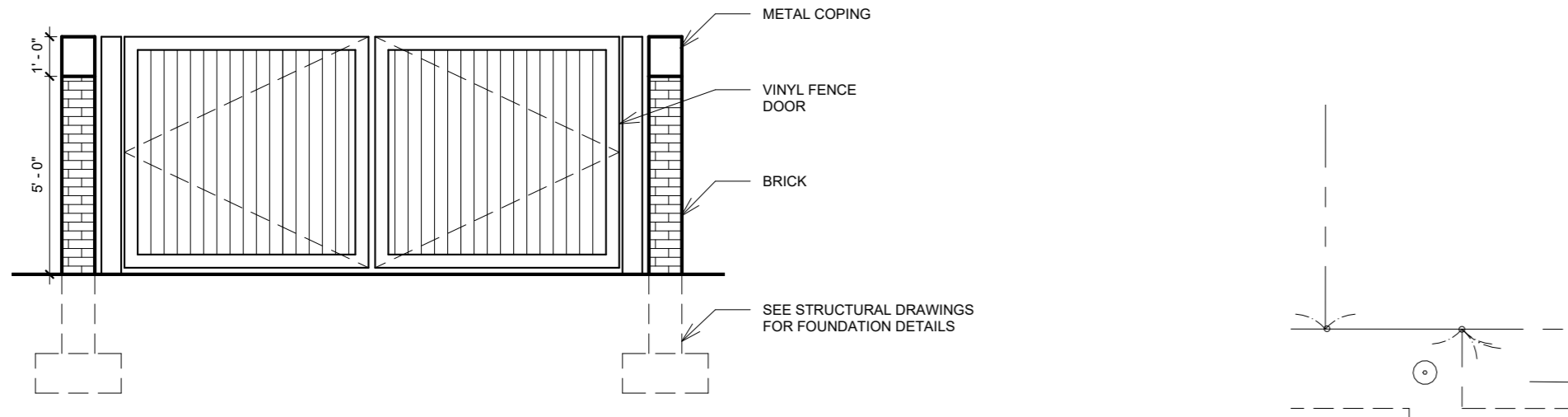
SIGNAGE SUMMARY:

MONUMENT SIGN	PERMITTED	PROVIDED
QUANTITY	1 PER FRONTAGE	2 PROVIDED
TOTAL	2 TOTAL	2 PROVIDED
HEIGHT	6 FT MAX	6 FT
AREA	18 SF	18 SF

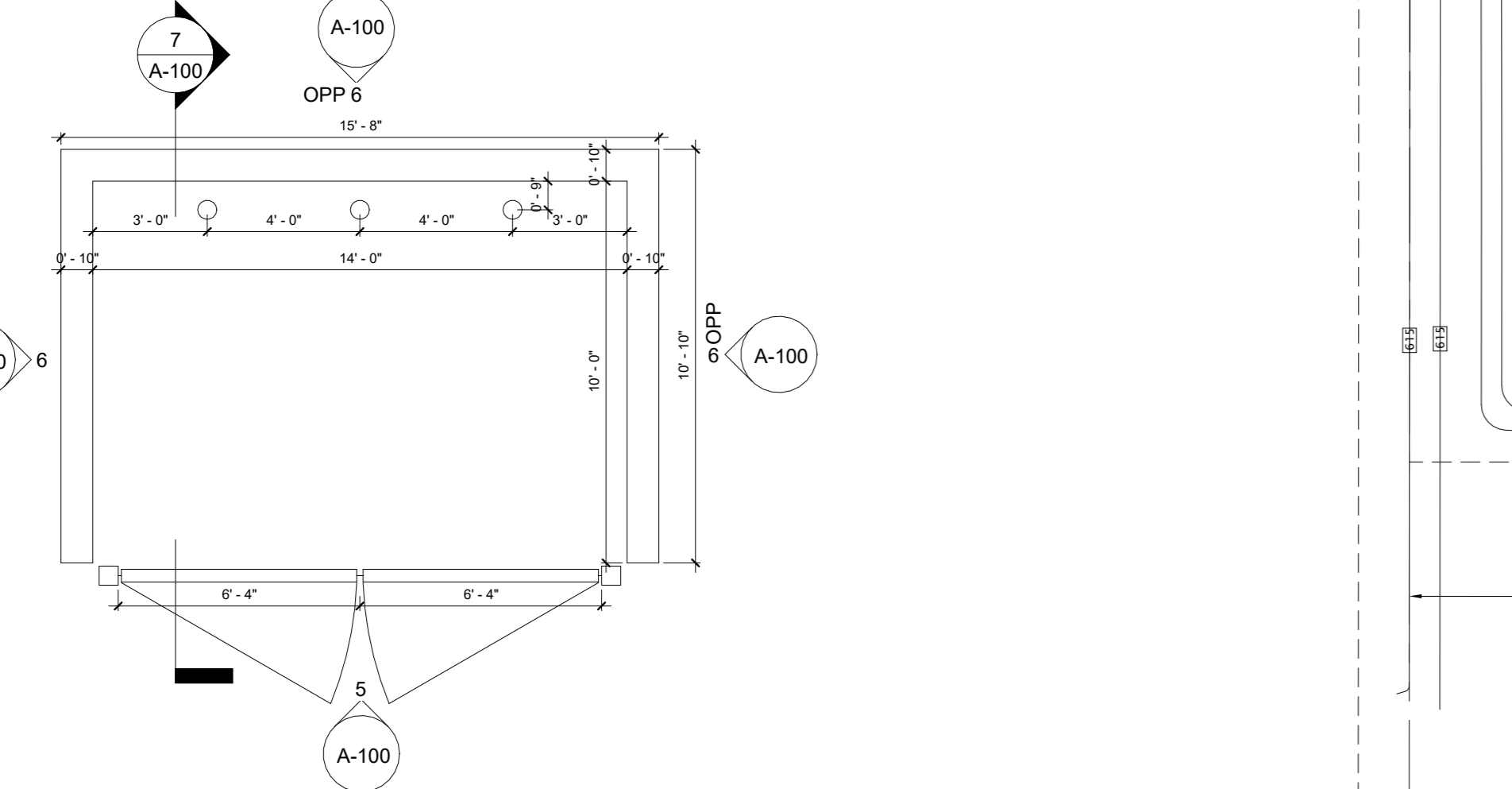
WALL SIGN	PERMITTED	PROVIDED
QUANTITY	1 PER FACADE	3 PROVIDED
TOTAL	4 TOTAL	3 PROVIDED
AREA	1.5 SF / LINEAL FT FACADE	
NORTH FACADE	164 SF	32 SF
WEST FACADE	150 SF	48 SF
SOUTH FACADE	169 SF	48 SF
EAST FACADE	142 SF	37 SF



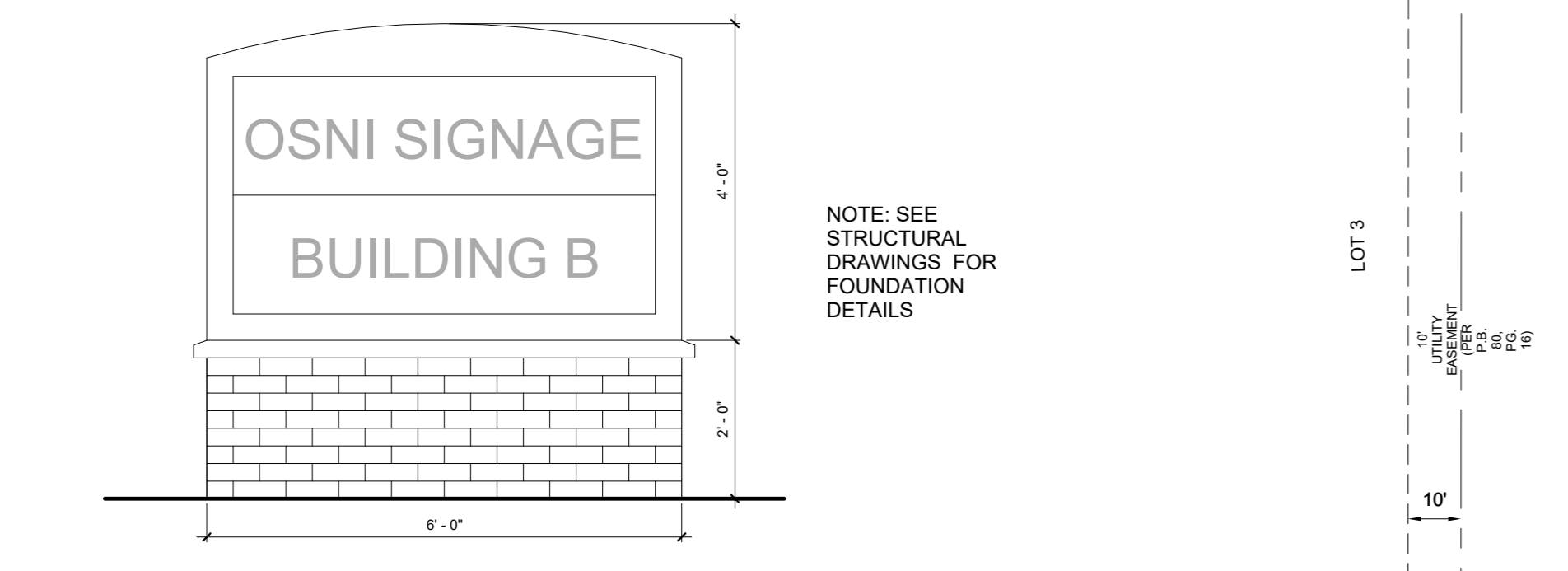
6 TRASH ENCLOSURE ELEVATION 1/4" = 1'-0"
7 TRASH ENCLOSURE SECTION 1/4" = 1'-0"



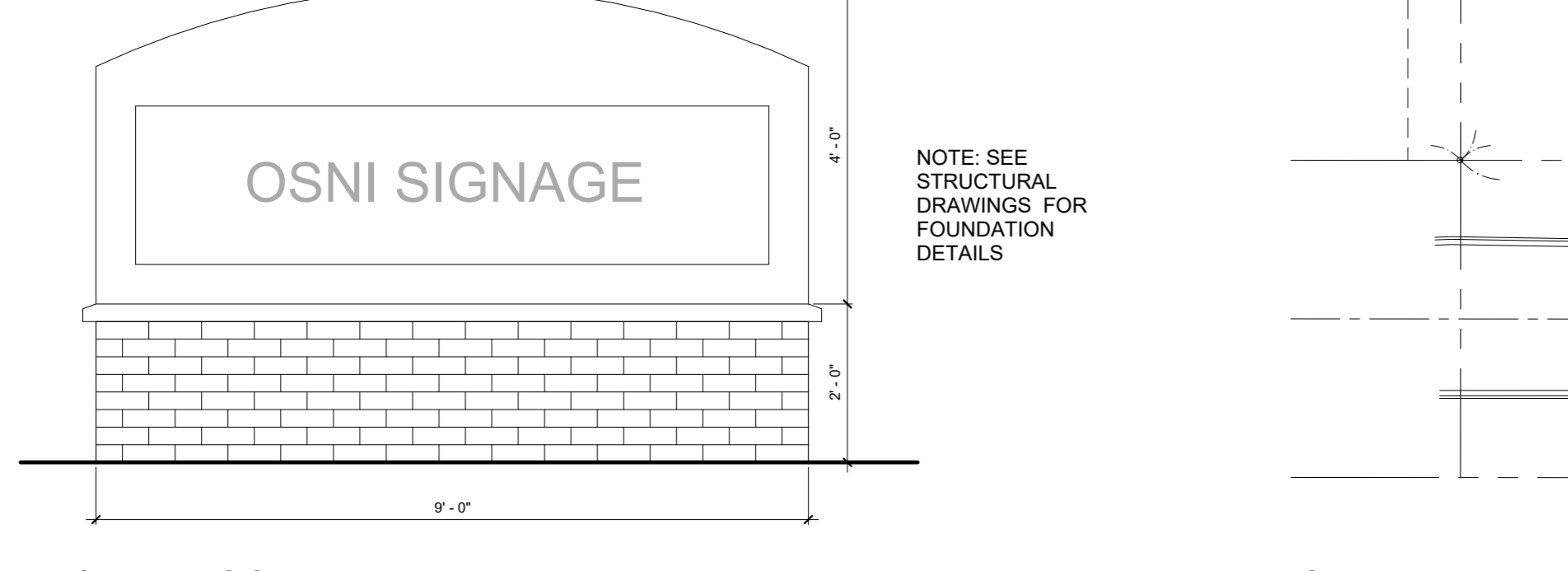
5 TRASH ENCLOSURE ELEVATION 1/4" = 1'-0"



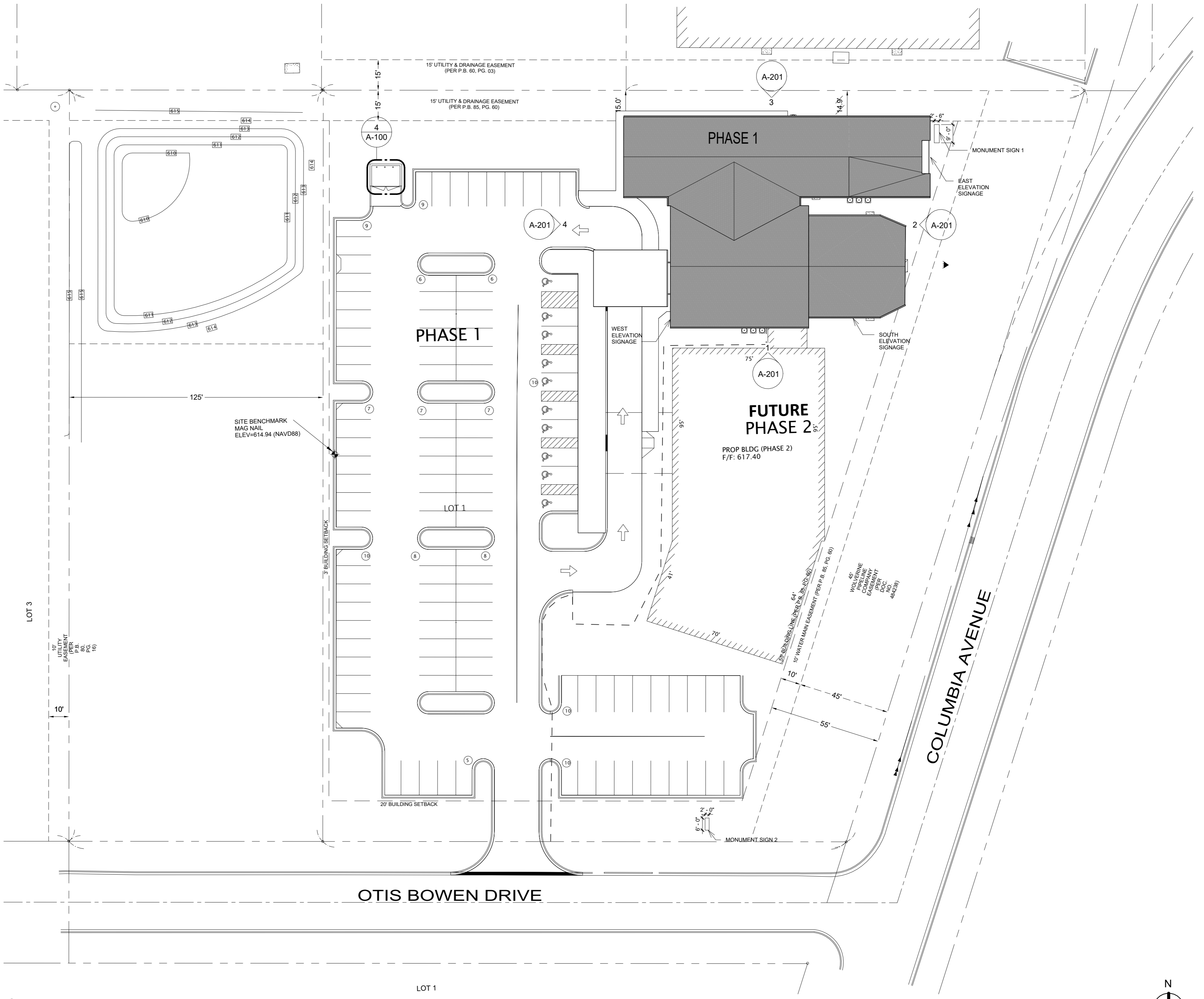
4 TRASH ENCLOSURE PLAN 1/4" = 1'-0"



3 MONUMENT SIGN 2 1/2" = 1'-0"



2 MONUMENT SIGN 1 1/2" = 1'-0"



1 SITE PLAN 1" = 30'-0"

Legacy Designs, Inc.
 555 S. Perryville Road
 POCORRADO, ILLINOIS 61108
 Phone: 815-484-4708 Fax: 815-484-4710
 e-mail: legacy@legacymdesigns.net
 www.legacymdesigns.net

RIDGELAND ASSOCIATES INC.
 ARCHITECTS DESIGNERS PLANNERS
 1 Riverside Rd., Riverside, Illinois 60546
 708.435.0300 708.435.0305 fax
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STATE OF INDIANA
 ZENON KUROZIEL
 AR 1980045
 REGISTERED ARCHITECT
 EXPIRATION DATE: 12/31/2025

EAI
 DESIGN/BUILD
E.ANTHONY, INC.
 Complete Construction Services
 708-602-6230

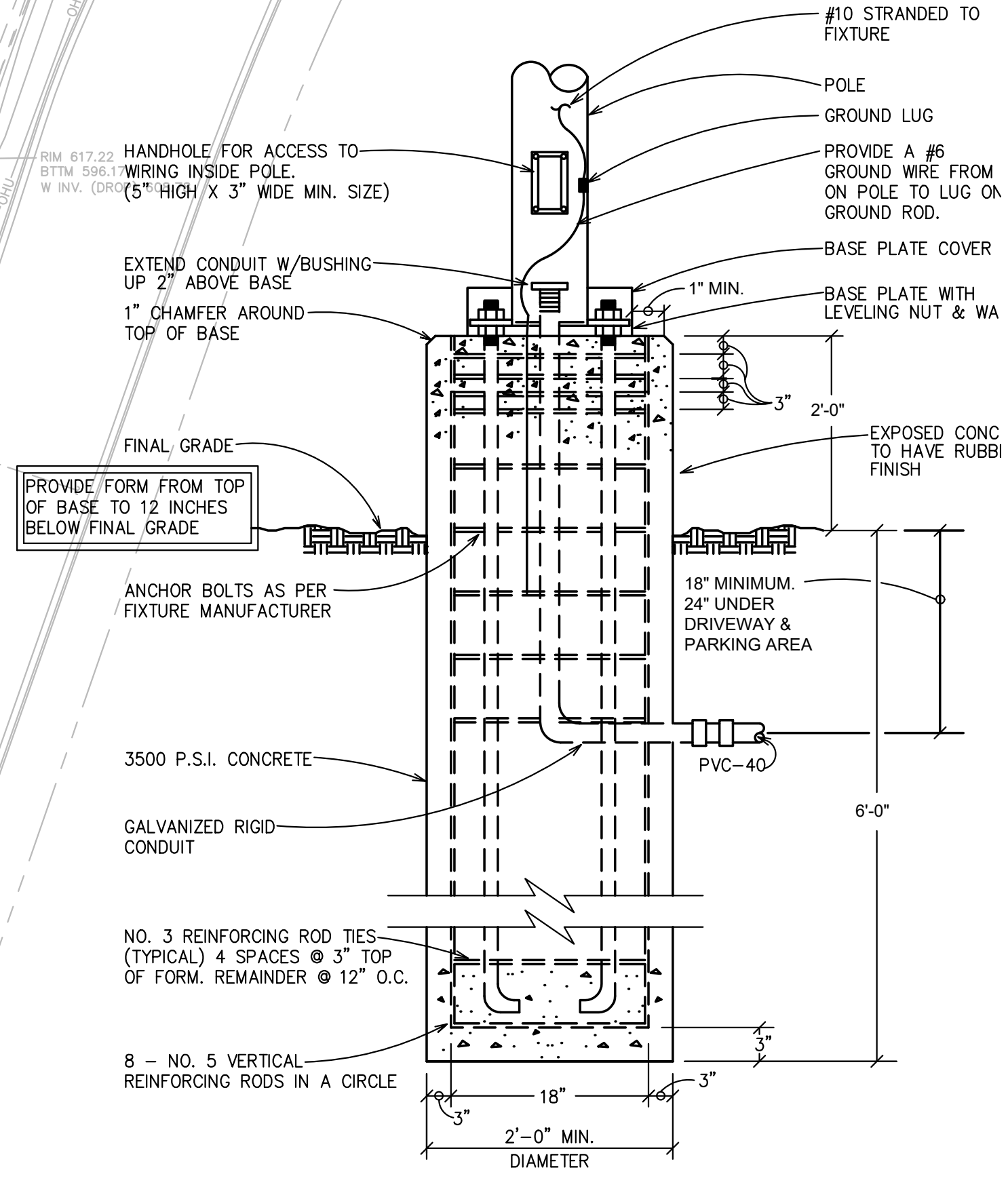
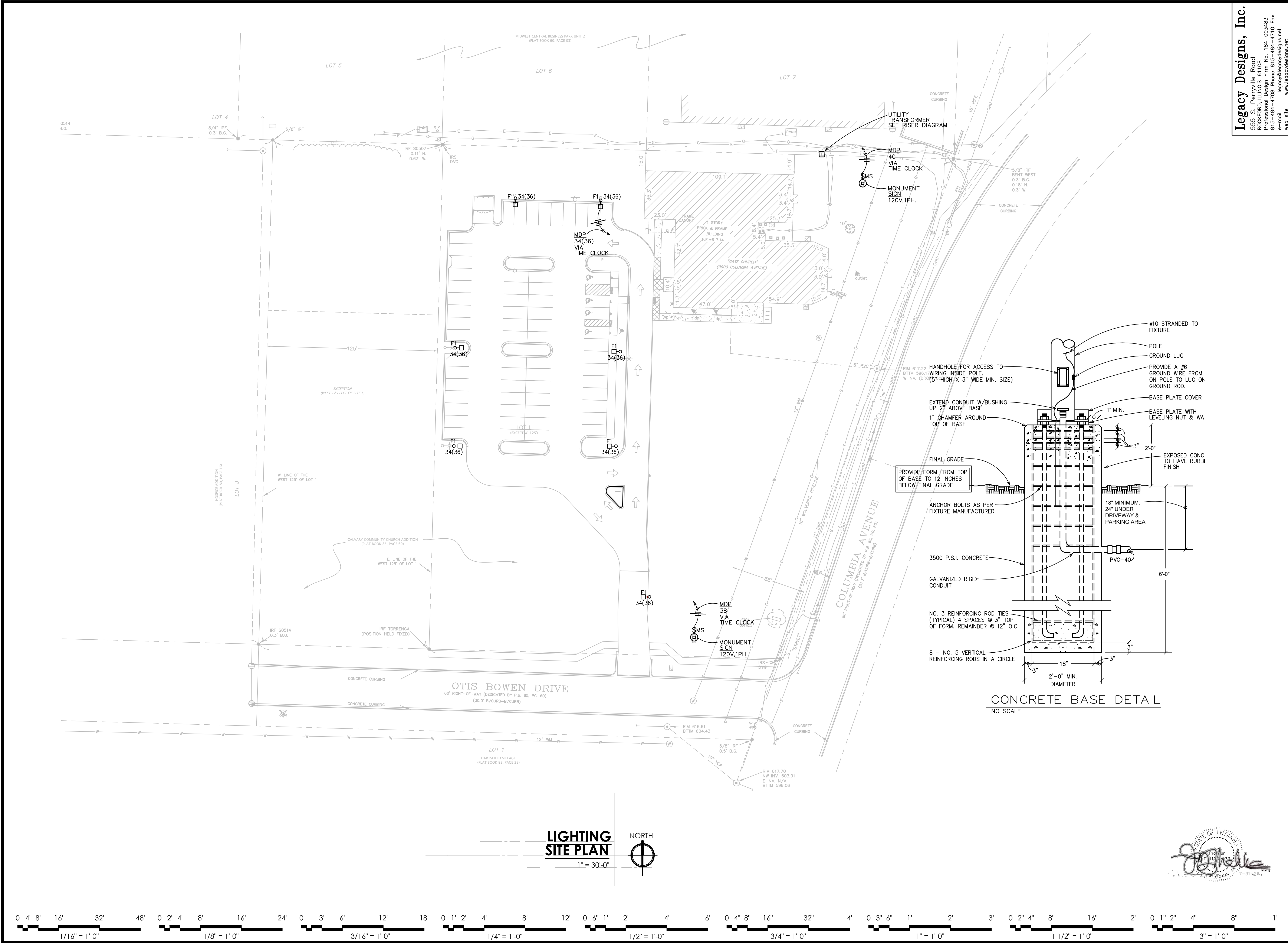
OSNI
BUILDING RENOVATION AND SITE WORK
 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

Revisions	

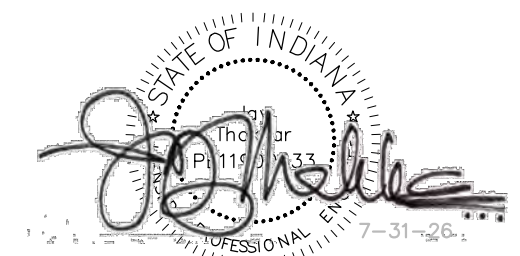
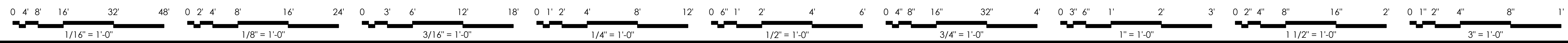
Drawing Date 8-5-2024
 Project Number 24038

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Sheet Name
SITE LIGHTING SITE PLAN
 Sheet Number
ES101
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LIGHTING SITE PLAN
 1" = 30'-0"
 NORTH



Legacy Designs, Inc.
 555 S. Perryville Road
 Rockford, IL 61108
 Phone: 815-484-4708
 Fax: 815-484-4710
 e-mail: legacy@legoedesigns.net
 www.legoedesigns.net

RIDGELAND ASSOCIATES INC.
 ARCHITECTS DESIGNERS PLANNERS
 1 Riverside Rd., Riverside, Illinois 60546
 708.435.0300 708.435.0305 fax
 www.ridgelandassociates.com

STATE OF INDIANA
 ZENON KUROZIEL
 REGISTERED ARCHITECT
 EXPIRATION DATE: 12/31/2025

EAI
 DESIGN/BUILD
E.ANTHONY, INC.
 Complete Construction Services
 708-602-8280

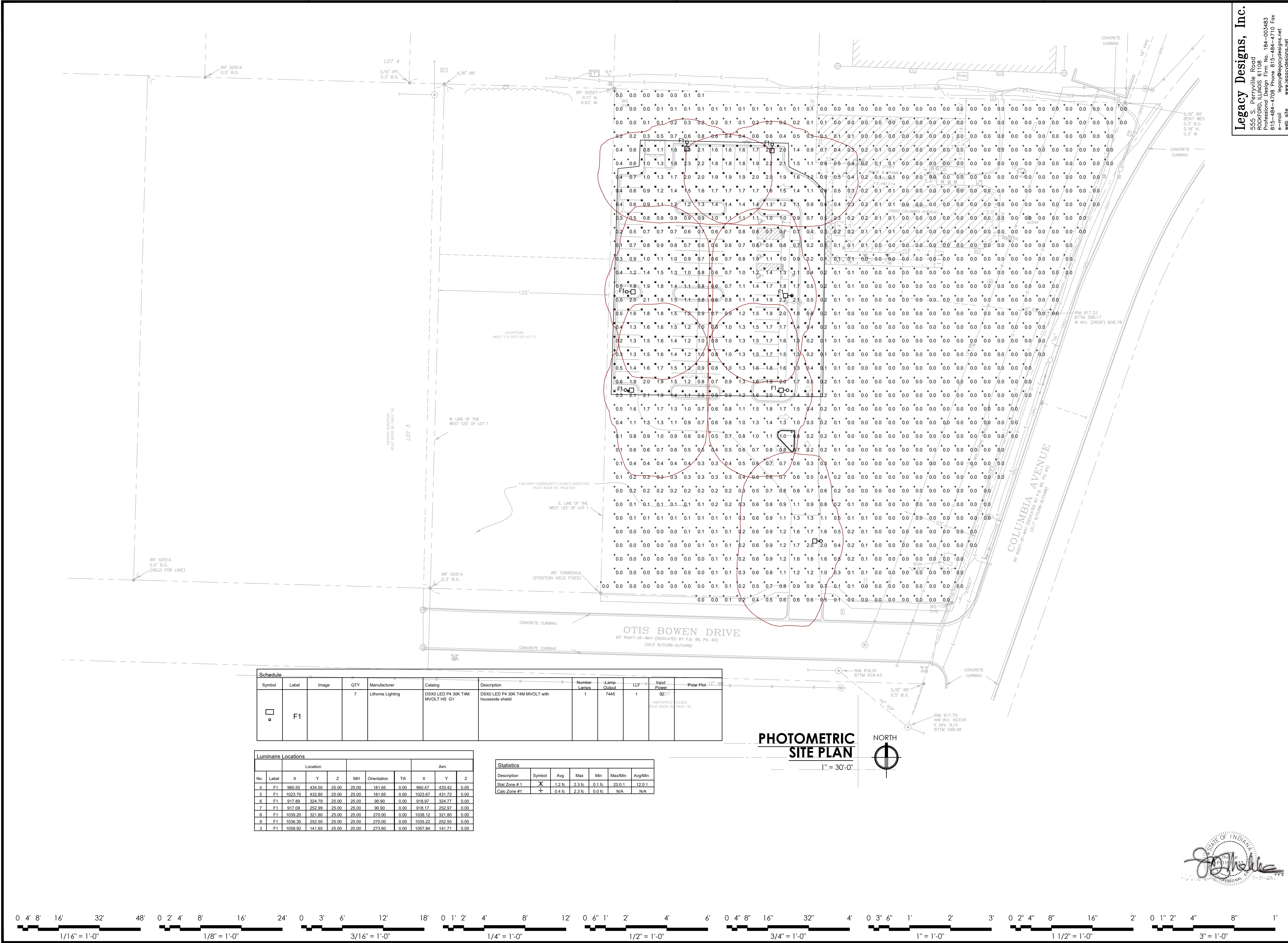
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Revisions

Drawing Date: 8-5-2024
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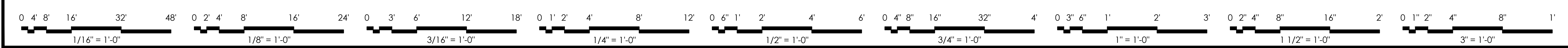
Sheet Name: PHOTOMETRIC SITE PLAN
 Sheet Number: **ES102**
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Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot 12"
	F1		7	Lithonia Lighting	DSXO LED P4 30K T4M MVOLT HS G1	DSXO LED P4 30K T4M MVOLT with houseshield	1	7445	1	92.71	MATCHED RELEASE PLAT BOOK 83 PAGE 281

No.	Label	Location				Aim				
		X	Y	Z	MH	Orientation	Tilt	X	Y	Z
4	F1	960.50	434.59	25.00	25.00	181.65	0.00	960.47	433.42	0.00
5	F1	1023.70	432.86	25.00	25.00	181.65	0.00	1023.67	431.72	0.00
6	F1	917.89	334.79	25.00	25.00	90.90	0.00	918.97	334.77	0.00
7	F1	917.09	252.99	25.00	25.00	90.90	0.00	918.17	252.97	0.00
8	F1	1039.20	321.80	25.00	25.00	270.00	0.00	1038.12	321.80	0.00
9	F1	1038.30	252.50	25.00	25.00	270.00	0.00	1035.22	252.50	0.00
3	F1	1058.92	141.65	25.00	25.00	273.60	0.00	1057.84	141.71	0.00

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Stat Zone #1	X	1.2 fc	2.3 fc	0.1 fc	23.0:1	12.0:1
Calc Zone #1	+	0.4 fc	2.3 fc	0.0 fc	N/A	N/A





Gardco OptiForm site and area luminaires are available in three sizes: small, medium and large. Featuring the latest in LED technology, OptiForm achieves up to 192 lumens per watt. Eleven optical distributions are available, suitable for a range of outdoor lighting applications. OptiForm features a unique mounting system with a two-piece housing for hassle-free installation. Mounting options include a standard arm, mast arm, and wall mount bracket. Service Tag is a standard feature with every OptiForm luminaire, providing maintenance or upgrade assistance throughout the life of the product.

Project: _____
 Location: _____
 Cat No: _____
 Type: _____
 Lamps: _____ Qty: _____
 Notes: _____

Ordering guide

example: OPF-S-A01-840-T4M-AR1-120-BL50-L3-BZ

Luminaire	Configuration (nom. lumens)		Color Temperature		Distribution			Mounting	Voltage	
OPF-S										
OPF-S OptiForm Small Area	Site and Area	Precision Plus[®] (T2M, T3M, T4M, T5M only)	827¹ 80CRI 2700K 830 80CRI 3000K 840 80CRI 4000K 727¹ 70CRI 2700K 730 70CRI 3000K 740 70CRI 4000K 750 70CRI 5000K		AFR Autofront row T2M Type 2 medium T3M Type 3 medium T4M Type 4 medium T4W Type 4 wide T5N Type 5 narrow T5M Type 5 medium T5W Type 5 wide	LCL LEED corner optic left LCR LEED corner optic right BLC Back light control 2RL Type 2 rotated left 90° 2RR Type 2 rotated right 270° 3RL Type 3 rotated left 90° 3RR Type 3 rotated right 270° 4RL¹ Type 4 rotated left 90° 4RR¹ Type 4 rotated right 270°	AR1¹⁷ Arm mount (standard) MAR³ Mast arm WAL Wall mount MOS⁴ Mounting ordered separately	120 120V 208 208V 240 240V 277 277V 347 347V 480 480V UNV 120-277V HVU¹⁶ 347-480V		
	A01 7,000 lumens A02 9,000 lumens A03 11,000 lumens A04 15,000 lumens A05 17,000 lumens A06 19,000 lumens A07 20,000 lumens	P01 2,500 lumens P02 4,000 lumens P03 6,500 lumens P04 9,000 lumens P05 11,500 lumens P06 14,000 lumens P07 16,500 lumens P08 19,000 lumens P09 22,000 lumens								

Dimming Controls	Sensing	Options (electrical, mechanical, etc)	Emergency	Finish
The following options include 0-10V Driver		None	EM ^{12,15} Emergency Battery Pack (0-40 °C)	Standard textured finish
none 0-10V dimming driver		SP2 Surge protector 20kV/10kA (option)	Available with precision plus optics P01-P03 only	BK Black WH White BZ Bronze DG Dark Gray MG Medium Gray
DLEA ^{5,6} Dimming leads externally accessible (controls by others)		FS1 ¹¹ Single fuse (120, 277, or 347VAC) FS2 ¹¹ Double fuse (208, 240, or 480V)		
FAWS ^{5,6,20} Field adjustable wattage selector		PCB ^{10,12} Photocontrol button connected to 0-10V driver		
BL50 ^{5,20} Bi-level with motion sensor	L2 PIR sensor, #2 lens (Required if BL50 is selected)	TR5 NEMA Twist-lock 5-pin receptacle connected to 0-10V driver		
The following options include SR/DALI Driver		TR7 ¹³ 7-pin twist lock receptacle connected to D4I compliant driver		Customer specified
SRDR ^{5,8,13} SR driver connected to Zhaga socket (D4I)		TLP ^{13,15} 7-pin twist lock receptacle connected to D4I compliant driver w/ 3-pin photocell		OC Special optional color or RAL, consult factory SC Special color (must supply color chip, requires factory quote)
OMSR ^{5,8,13} Outdoor multi-sensor		EHS Housing machined to accept external house side shield for field install. Must be combined with OPF-S-EHS-1 accessory.		
DynaDimmer: Automatic Profile Dimming				
CS50 ^{5,9} Security 50% dimming, 7 hours				
CM50 ^{5,9} Median 50% dimming, 8 hours				
CS30 ^{5,9} Security 30% dimming, 7 hours				
CM30 ^{5,9} Median 30% dimming, 8 hours				

- Extended leadtime applies. Consult factory for details.
- Mounts to a square pole with knockout for 4-5" OD round pole.
- Mounts to a horizontal 2-3/8" OD x 5" Long tenon.
- Must be ordered with mounting accessory. Photocell option (TR7) must be selected with mounting accessory. See Page 2 for options.
- Not available with other dimming control options (mutually exclusive).
- Not available with motion sensor (physical restriction).
- Must be specified with a motion sensor lens (L2).
- Not available with PCB, TR5.
- Must be specified with a motion sensor LW, LB.
- Not available with TR7, TLP.
- Must specify input voltage.
- Not available in HVU [347-480V].
- UNV [120-277V] only available for lumen packages P03-P09. HVU [347-480V] only available for lumen packages P06-P09 & A04-A07.
- UNV [120-277V] only available for lumen packages P04-P09.
- Not available with Dynadimmer, SRDR, FAWS, FS1, FS2, OMSR, DLEA, BL50 (physical restriction).
- Precision Plus Optics (P01-P09) available only with T2M, T3M, T4M, and T5M optical distributions and are non-rotatable.
- OPF-RMB accessory recommended for retrofit applications.





OPF-S OptiForm small

Site & area luminaire

Shielding Accessory Kits (order separately)

One shield kit per luminaire

- OPF-S-EHS-1*** External house side shield (field installed)
- OPF-S-HIS-1**** Internal house side shields. For Area optic types T2M, T3M, and T5N.
- OPF-S-HIS-T4-1**** Internal house side shield for Area optic types T4M and T4W, qty 1.
- OPF-S-HIS-5M/5W-1**** Internal house side shield for Area optic types T5M and T5W, qty 1

*Must select EHS option on luminaire options section

**Not available for Precision Plus (P01-P09)

Luminaire Accessories (order separately)

Pole Mount Fusing

- FP1** Pole mount single fuse (120V, 277V, or 347V)
- FP2** Pole mount double fuse (208V, 240V, or 480V)
- FP3** Pole mount double fuse canadian double pull (208V, 240V, or 480V)

Photocell Accessories

- P400S** Shorting cap

Mountings (boxed and shipped separately)

Must choose Mounting Ordered Separately (MOS) selection for mounting option of luminaire. Useful for attachment of arm to pole prior to luminaire installation

Standard Arm

- OPF-AR1-(F)^{2,7}** Standard arm mount
- OPF-AR1-TR7-(F)^{2,3,7}** Mast arm mount with 7-pin (TR7) receptacle

Wall Mount

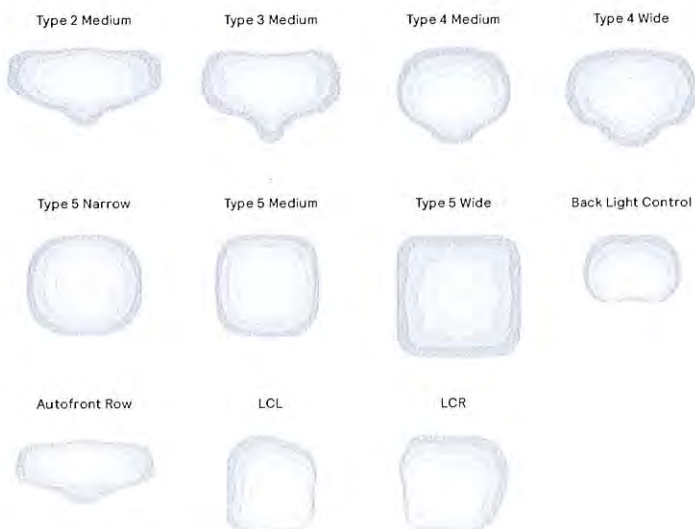
- OPF-WAL-(F)** Wall mount bracket
- OPF-WAL-TR7-(F)³** Wall mount with 7-pin (TR7) receptacle

Mast Arm

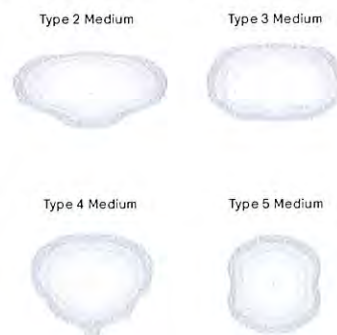
- OPF-MAR-(F)³** Mast arm mount
- OPF-MAR-TR7-(F)^{3,3}** Mast arm mount with 7-pin (TR7) receptacle

Optical Distributions

Site and Area Optics



Precision Plus Optics



Mounting Accessories

- OPF-RMB** Retrofit Mounting Bolster Plate for attaching OptiForm to existing poles. Recommended for retrofit applications.
- OPF-RPA** Round Pole Adapter. Fits to 3"- 3.9" O.D. pole. Painted black.

Pole Top Fitters

PTF2 - Pole top fitter fits 2 3/8 - 2 1/2" OD x 4" depth tenon

- PTF2-1-90-(F)** 1 luminaire at 90°
- PTF2-2-90-(F)** 2 luminaires at 90°
- PTF2-3-90-(F)** 3 luminaires at 90°
- PTF2-4-90-(F)** 4 luminaires at 90°
- PTF2-2-180-(F)** 2 luminaires at 180°
- PTF2-3-120-(F)** 3 luminaires at 120°

PTF3 - Pole top fitter fits 3-3 1/2" OD x 6" depth tenon

- PTF3-1-90-(F)** 1 luminaire at 90°
- PTF3-2-90-(F)** 2 luminaires at 90°
- PTF3-3-90-(F)** 3 luminaires at 90°
- PTF3-4-90-(F)** 4 luminaires at 90°
- PTF3-2-180-(F)** 2 luminaires at 180°
- PTF3-3-120-(F)** 3 luminaires at 120°



OPF-S OptiForm small

Site & area luminaire

OPF-S Area Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI			70 CRI			70 CRI		
			3000K			4000K			5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A01	42	T2M	6991	B2-U0-G2	167	7391	B2-U0-G2	176	7391	B2-U0-G2	176
		T3M	6935	B2-U0-G2	166	7332	B2-U0-G2	175	7332	B2-U0-G2	175
		T4M	7028	B1-U0-G2	168	7431	B1-U0-G2	177	7431	B1-U0-G2	177
		T5M	7244	B3-U0-G1	173	7659	B3-U0-G1	183	7659	B3-U0-G1	183
		AFR	7241	B2-U0-G2	173	7655	B2-U0-G2	183	7655	B2-U0-G2	183
		T4W	6692	B1-U0-G2	160	7075	B1-U0-G2	169	7075	B1-U0-G2	169
		T5N	7193	B3-U0-G1	172	7605	B3-U0-G1	182	7605	B3-U0-G1	182
		T5W	6926	B3-U0-G2	165	7322	B3-U0-G2	175	7322	B3-U0-G2	175
		LCL	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
		LCR	3804	B1-U0-G1	91	4021	B1-U0-G1	96	4021	B1-U0-G1	96
BLC	4874	B0-U0-G1	116	5153	B0-U0-G1	123	5153	B0-U0-G1	123		
A02	54	T2M	8941	B2-U0-G2	165	9452	B2-U0-G2	175	9452	B2-U0-G2	175
		T3M	8869	B2-U0-G2	164	9377	B2-U0-G2	173	9377	B2-U0-G2	173
		T4M	8989	B1-U0-G2	166	9503	B1-U0-G2	176	9503	B1-U0-G2	176
		T5M	9265	B3-U0-G2	171	9795	B3-U0-G2	181	9795	B3-U0-G2	181
		AFR	9260	B2-U0-G2	171	9790	B2-U0-G2	181	9790	B2-U0-G2	181
		T4W	8558	B2-U0-G2	158	9048	B2-U0-G2	167	9048	B2-U0-G2	167
		T5N	9200	B3-U0-G1	170	9726	B3-U0-G1	180	9726	B3-U0-G1	180
		T5W	8858	B3-U0-G2	164	9365	B3-U0-G2	173	9365	B3-U0-G2	173
		LCL	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
		LCR	4864	B1-U0-G1	90	5143	B1-U0-G1	95	5143	B1-U0-G1	95
BLC	6234	B0-U0-G2	115	6591	B0-U0-G2	122	6591	B0-U0-G2	122		
A03	54	T2M	10438	B2-U0-G2	164	11035	B2-U0-G2	174	11035	B3-U0-G3	174
		T3M	10354	B2-U0-G2	163	10947	B2-U0-G2	172	10947	B2-U0-G2	172
		T4M	10494	B2-U0-G2	165	11094	B1-U0-G2	174	11094	B2-U0-G2	174
		T5M	10816	B3-U0-G2	170	11435	B3-U0-G2	180	11435	B3-U0-G2	180
		AFR	10811	B3-U0-G3	170	11429	B2-U0-G2	180	11429	B3-U0-G3	180
		T4W	9991	B2-U0-G3	157	10563	B2-U0-G2	166	10563	B2-U0-G3	166
		T5N	10740	B3-U0-G2	169	11355	B3-U0-G1	179	11355	B3-U0-G2	179
		T5W	10341	B4-U0-G2	163	10933	B3-U0-G2	172	10933	B4-U0-G2	172
		LCL	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
		LCR	5679	B1-U0-G1	89	6004	B1-U0-G1	94	6004	B1-U0-G1	94
BLC	7278	B1-U0-G2	114	7694	B0-U0-G2	121	7694	B1-U0-G2	121		
A04	91	T2M	14465	B3-U0-G3	160	15293	B3-U0-G3	169	15293	B3-U0-G3	169
		T3M	14350	B3-U0-G3	158	15171	B3-U0-G3	167	15171	B3-U0-G3	167
		T4M	14543	B2-U0-G2	160	15375	B2-U0-G2	170	15375	B2-U0-G2	170
		T5M	14990	B4-U0-G2	165	15848	B4-U0-G2	175	15848	B4-U0-G2	175
		AFR	14982	B3-U0-G3	165	15840	B3-U0-G3	175	15840	B3-U0-G3	175
		T4W	13847	B2-U0-G3	153	14639	B2-U0-G3	161	14639	B2-U0-G3	161
		T5N	14884	B4-U0-G2	164	15736	B4-U0-G2	174	15736	B4-U0-G2	174
		T5W	14331	B4-U0-G3	158	15151	B4-U0-G3	167	15151	B4-U0-G3	167
		LCL	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
		LCR	7870	B1-U0-G2	87	8321	B1-U0-G2	92	8321	B1-U0-G2	92
BLC	10086	B1-U0-G2	111	10663	B1-U0-G2	118	10663	B1-U0-G2	118		



OPF-S OptiForm small

Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

Performance Package	System Watts	Distribution Type	70 CRI			70 CRI			70 CRI		
			3000K			4000K			5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
A05	104	T2M	16226	B3-U0-G3	156	17155	B3-U0-G3	164	17155	B3-U0-G3	164
		T3M	16096	B3-U0-G3	154	17018	B3-U0-G3	163	17018	B3-U0-G3	163
		T4M	16313	B2-U0-G3	156	17247	B2-U0-G3	165	17247	B2-U0-G3	165
		T5M	16814	B4-U0-G2	161	17777	B4-U0-G2	170	17777	B4-U0-G2	170
		AFR	16806	B3-U0-G3	161	17768	B3-U0-G3	170	17768	B3-U0-G3	170
		T4W	15532	B3-U0-G3	149	16421	B3-U0-G3	157	16421	B3-U0-G3	157
		T5N	16696	B4-U0-G2	160	17652	B4-U0-G2	169	17652	B4-U0-G2	169
		T5W	16075	B4-U0-G3	154	16995	B4-U0-G3	163	16995	B4-U0-G3	163
		LCL	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
		LCR	8828	B1-U0-G2	85	9333	B1-U0-G2	89	9333	B1-U0-G2	89
BLC	11314	B1-U0-G2	108	11961	B1-U0-G2	115	11961	B1-U0-G2	115		
A06	122	T2M	18441	B3-U0-G3	151	19496	B3-U0-G3	160	19496	B3-U0-G3	160
		T3M	18294	B3-U0-G3	150	19341	B3-U0-G3	158	19341	B3-U0-G3	158
		T4M	18540	B3-U0-G3	152	19601	B3-U0-G3	160	19601	B3-U0-G3	160
		T5M	19110	B4-U0-G2	156	20203	B4-U0-G2	165	20203	B4-U0-G2	165
		AFR	19100	B3-U0-G3	156	20193	B3-U0-G3	165	20193	B3-U0-G3	165
		T4W	17652	B3-U0-G3	144	18662	B3-U0-G3	153	18662	B3-U0-G3	153
		T5N	18975	B4-U0-G2	155	20061	B4-U0-G2	164	20061	B4-U0-G2	164
		T5W	18270	B5-U0-G3	150	19315	B5-U0-G3	158	19315	B5-U0-G3	158
		LCL	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
		LCR	10033	B2-U0-G2	82	10607	B2-U0-G2	87	10607	B2-U0-G2	87
BLC	12858	B1-U0-G2	105	13594	B1-U0-G2	111	13594	B1-U0-G2	111		

OPF-S Precision Plus Optic Lumen values

Performance Package	System Watts	Distribution Type	70 CRI			70 CRI			70 CRI		
			3000K			4000K			5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P01	15	T2M	2691	B1-U0-G1	182	2845	B1-U0-G1	192	2845	B1-U0-G1	192
		T3M	2718	B1-U0-G1	184	2874	B1-U0-G1	194	2874	B1-U0-G1	194
		T4M	2665	B1-U0-G1	180	2817	B1-U0-G1	190	2817	B1-U0-G1	190
		T5M	2610	B2-U0-G1	176	2759	B2-U0-G1	186	2759	B2-U0-G1	186
P02	23	T2M	4022	B1-U0-G1	178	4252	B1-U0-G1	189	4252	B1-U0-G1	189
		T3M	4062	B1-U0-G1	180	4295	B1-U0-G1	191	4295	B1-U0-G1	191
		T4M	3983	B1-U0-G1	177	4211	B1-U0-G1	187	4211	B1-U0-G1	187
		T5M	3900	B2-U0-G1	173	4124	B2-U0-G1	183	4124	B2-U0-G1	183
P03	38	T2M	6465	B2-U0-G2	169	6835	B2-U0-G2	179	6835	B2-U0-G2	179
		T3M	6530	B2-U0-G2	171	6904	B2-U0-G2	181	6904	B2-U0-G2	181
		T4M	6402	B1-U0-G2	168	6768	B1-U0-G2	177	6768	B1-U0-G2	177
		T5M	6269	B3-U0-G2	164	6629	B3-U0-G2	174	6629	B3-U0-G2	174
P04	53	T2M	8759	B2-U0-G2	165	9261	B2-U0-G2	174	9261	B2-U0-G2	174
		T3M	8848	B2-U0-G2	166	9355	B2-U0-G2	176	9355	B2-U0-G2	176
		T4M	8674	B2-U0-G2	163	9171	B2-U0-G2	172	9171	B2-U0-G2	172
		T5M	8495	B3-U0-G2	160	8982	B3-U0-G2	169	8982	B3-U0-G2	169



OPF-S OptiForm small

Site & area luminaire

OPF-S Area Optic Lumen values (cont'd)

Performance Package	System Watts	Distribution Type	70 CRI			70 CRI			70 CRI		
			3000K			4000K			5000K		
			Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)	Lumen Output	BUG Rating	Efficacy (LPW)
P05	66	T2M	11253	B2-U0-G2	172	11898	B2-U0-G2	182	11898	B2-U0-G2	182
		T3M	11366	B3-U0-G3	173	12018	B3-U0-G3	183	12018	B3-U0-G3	183
		T4M	11143	B2-U0-G3	170	11782	B2-U0-G3	180	11782	B2-U0-G3	180
		T5M	10913	B3-U0-G2	167	11539	B3-U0-G2	176	11539	B3-U0-G2	176
P06	76	T2M	13987	B3-U0-G3	183	14788	B3-U0-G3	194	14788	B3-U0-G3	194
		T3M	14128	B3-U0-G3	185	14937	B3-U0-G3	196	14937	B3-U0-G3	196
		T4M	13850	B2-U0-G3	182	14644	B2-U0-G3	192	14644	B2-U0-G3	192
		T5M	13564	B4-U0-G3	178	14342	B4-U0-G3	188	14342	B4-U0-G3	188
P07	94	T2M	15850	B3-U0-G3	168	16758	B3-U0-G3	178	16758	B3-U0-G3	178
		T3M	16010	B3-U0-G3	170	16927	B3-U0-G3	180	16927	B3-U0-G3	180
		T4M	15696	B3-U0-G3	167	16595	B3-U0-G3	176	16595	B3-U0-G3	176
		T5M	15372	B4-U0-G3	163	16253	B4-U0-G3	172	16253	B4-U0-G3	172
P08	113	T2M	19800	B3-U0-G3	176	20934	B3-U0-G3	186	20934	B3-U0-G3	186
		T3M	19999	B3-U0-G3	178	21145	B3-U0-G3	188	21145	B3-U0-G3	188
		T4M	19607	B3-U0-G3	174	20730	B3-U0-G3	184	20730	B3-U0-G3	184
		T5M	19202	B4-U0-G3	171	20302	B4-U0-G3	180	20302	B4-U0-G3	180
P09	133	T2M	21655	B3-U0-G3	163	22896	B3-U0-G3	172	22896	B3-U0-G3	172
		T3M	21874	B3-U0-G3	164	23127	B3-U0-G3	174	23127	B3-U0-G3	174
		T4M	21444	B3-U0-G4	161	22673	B3-U0-G4	171	22673	B3-U0-G4	171
		T5M	21002	B4-U0-G3	158	22205	B4-U0-G3	167	22205	B4-U0-G3	167

LED Wattage and Lumen Values (Emergency Mode)

Ordering Code	CCT	CRI	Avg. System Wattage (W)	Type 2M		Type 3M		Type 4M	
				Lumen Output	BUG Rating	Lumen Output	BUG Rating	Lumen Output	BUG Rating
OPF-S-PXX-740-X-EM	4000	70	6	1000	B0-U0-G0	1014	B0-U0-G1	838	B0-U0-G0
OPF-S-PXX-750-X-EM	5000	70	6	960	B0-U0-G0	973	B0-U0-G1	804	B0-U0-G0
OPF-S-PXX-830-X-EM	3000	80	6	856	B0-U0-G0	868	B0-U0-G1	717	B0-U0-G0
OPF-S-PXX-840-X-EM	4000	80	6	887	B0-U0-G0	899	B0-U0-G1	743	B0-U0-G0

Predicted Lumen Depreciation Data

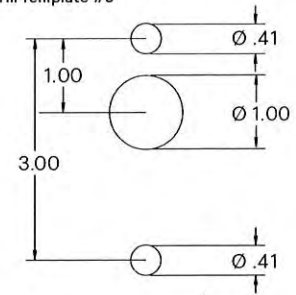
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA TM21-11. Published L70 hours limited to 6 times actual LED test hours

Ambient Temp °C	Lumen Package	Calculated L70 Hours	L70 per TM-21	Lumen Maintenance % at 60,000 hrs
25°C	A06-A07	>77,000 hours	>77,000 hours	90%
25°C	All others	>100,000 hours	>100,000 hours	96%

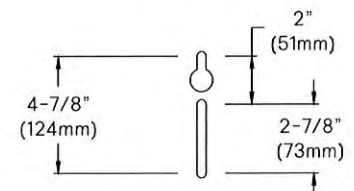
Dimensions

Standard Drill Pattern

Drill Template #5



Standard Arm Mounting Hole Pattern





OPF-S OptiForm small

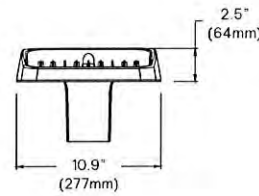
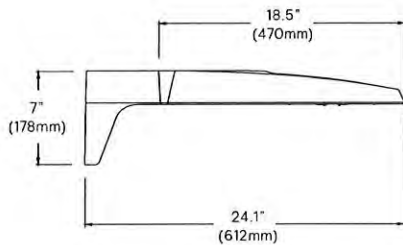
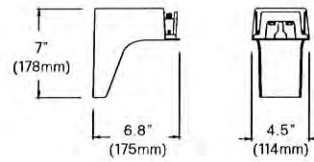
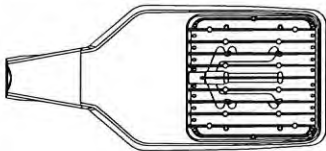
Site & area luminaire

Dimensions

OptiForm Standard Arm

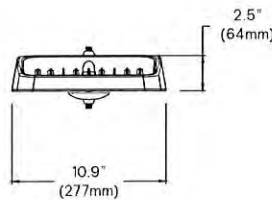
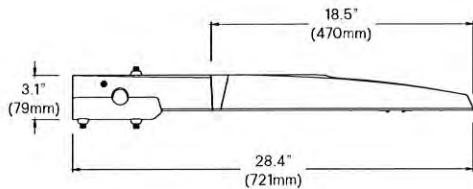
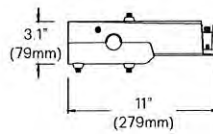
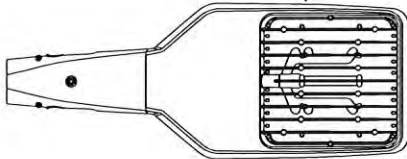
Weight: 11 lb (5.0 kg)

EPA: 0.2 ft² (0.018 m²)



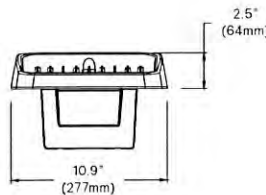
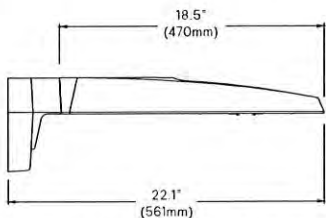
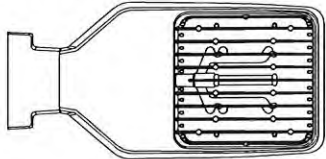
OptiForm Mast Arm

Weight: 12.6 lb (5.7 kg)



OptiForm Wall Mount

Weight: 11.8 lb (5.3 kg)





OPF-S OptiForm small

Site & area luminaire

Specifications

Housing

Housing and door constructed of low copper die cast Aluminum alloy (A360) with detachable arms for quick mounting. Heatsink is integral to the housing providing passive cooling of LEDs to maintain long LED life. Luminaire housing rated to IP65, LED Modules rated IP66 tested in accordance to Section 9 of IEC 60598-1.

Vibration resistance

OptiForm is tested and rated to standards set forth in ANSI C136.31-2018 Level 2 for Bridge and Overpass applications.

Light engine

Light engine comprises of a module of 40-LED aluminum metal clad board fully sealed with optics: Medium = 2 Modules with 80 LEDs, Large = 4 modules with 160 LEDs. Module is RoHS compliant. Color temperature as per ANSI/NEMA bin 2700 Kelvin nominal (2725 ±145K), 3000 Kelvin nominal (3045K +/- 175K) or 4000 Kelvin nominal (3985K +/- 275K), CRI 70 Min. 75 Typical. Other CCT/CRI also available, consult factory. LED light engine is rated IP66 in accordance to Section 9 of IEC 60598-1.

Energy saving benefits

System efficacy up to 182 lms/W with significant energy savings over Pulse Start Metal Halide luminaires. Optional control options provide added energy savings during unoccupied periods.

Optical systems

Site and Area optical distributions include Types 2 Medium, 3 Medium, 4 Medium, 4 Wide, 5 Narrow, 5 Medium, 5 Wide, and Auto Front Row. LEED Corner Left, LEED Corner Right, and Backlight Control distributions also available to provide excellent cutoff to meet the most stringent requirements at property lines. Optional internal shields mount to LED optics and are available with Type 2M, 3M, and 4M distributions. Types 2M and 3M can be rotated at 90° or 270° when specified, and are factory set only. Site and Area optics shall be performance tested per LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Precision Plus optical distributions include Types 2, 3, 4 and 5 and are designed to illuminate pedestrian scale applications by providing lower glare, while still achieving desired distribution, optimized spacing, and excellent uniformity. Optics are made of optical grade polymer refractor lenses and shall be performance tested per LM-63, LM-79 and TM-15 (IESNA) certifying their photometric performance. Luminaire designed with 0% uplight (U0 per IESNA TM-15).

Mounting

Standard luminaire arm mounts to square poles with knock-out on the arm to allow for mounting to 4" O.D. round poles. Standard arm casting can accommodate existing bolt spacing from 2" to 4-7/8". It is recommended to use the bolster plate kit OPF-RMB when it's not a new installation or if the mounting holes are larger than 0.41" (10mm).

OptiForm features a Mast Arm for Mounting to 2-3/8x4" tenon as well as wall mount casting for exterior building mount applications.

Control options

Dimming Leads Externally Accessible (DLEA): Access to 0-10V dimming leads supplied through back of luminaire (for secondary dimming controls by others). Cannot be used with other control options.

Sensor Ready Zhaga Socket Connector (SRDR): Product is D4i Certified and equipped with Sensor Ready drivers connected to 4-pin Zhaga Book 18 compliant receptacle designed for sensor and other control system applications. Receptacle is rated IP66 assembly in a compact design that provides a sealed electrical interface and rated UV resistance, mounted on underside of the luminaire, protective dust cap included. When a controller not provided by Signify is used with Sensor Ready Zhaga socket connector, the controller must be certified to work with the Xitanium SR LED drivers as part of the SR certified program. SRDR can be used with NEMA 7-pin twist lock receptacle, which is mounted on top of the luminaire.

Automatic Profile Dimming (CS/CM/CE/CA): Standard dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. Dimming profiles include two dimming settings including dim to 30% or 50% of the total lumen output. When used in combination with not programmed motion response it overrides the controller's schedule when motion is detected. After 5 minutes with no motion, it will return to the automatic dimming profile schedule. Automatic dimming profile scheduled with the following settings:

- **CS50/CS30:** Security for 7 hours night duration (Ex., 11 PM - 6 AM)
- **CM50/CM30:** Median for 8 hours night duration (Ex., 10 PM - 6 AM)

All above profiles are calculated from mid point of the night. Dimming is set for 6 hours after the mid point and 1 or 2 hours before depending of the duration of dimming. Cannot be used with other dimming control options

Field Adjustable Wattage Selector (FAWS): Luminaire equipped with the ability to manually adjust the wattage in the field to reduce total luminaire lumen output and light levels. Comes pre-set to the highest position lumen output selected. Use chart below to estimate reduction in lumen output desired. Cannot be used with other control options or motion response.

FAWS Position	Percent of Typical Lumen Output	FAWS Position	Percent of Typical Lumen Output
1	25%	6	80%
2	50%	7	85%
3	55%	8	90%
4	65%	9	95%
5	75%	10	100%

Note: Typical value accuracy +/- 5%

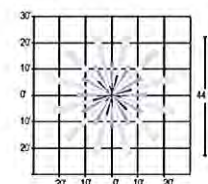
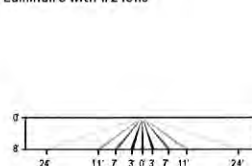
Motion response options

Bi-Level Infrared Motion Response (BL50): Motion Response module is mounted integral to luminaire factory pre-programmed to 50% dimming when not ordered with other control options. BL-IMRI is set/operates in the following fashion: The motion sensor is set to a constant 50%. When motion is detected by the PIR sensor, the luminaire returns to full power/light output. Dimming on low is factory set to 50% with 5 minutes default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 50%, to 50% of the normal constant wattage reducing the light level. Other dimming settings can be provided if different dimming levels are required (contact Technical Support for details).

Infrared Motion Response with Other Controls: When used in combination with other controls (Automatic Dimming Profile), motion response device will simply override controller's schedule with the added benefits of a combined dimming profile and sensor detection. In this configuration, the motion response device cannot be re-programmed with FSIR-100 Wireless Remote Programming Tool. The profile can only be re-programmed via the controller.

Infrared Motion Response Lenses (L2): Infrared Motion Response Integral module is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges. Lens #2 is designed for mounting heights 8' to 15'. Lens #3 is designed for higher mounting heights up to 20' with a 40' diameter coverage area. See charts for approximate detection patterns:

Luminaire with #2 lens



**Job Name:**ORTHOPEDIC SPECIALISTS OF
NWI OSNI
Electrical Contractor: PALOS
ELECTRIC-CRESTWOOD**Catalog Number:**

OPF-S-A05-840-T4M-AR1-UNV-BZ

Notes:**Type:****F1**

CLW24-28520

OPF-S OptiForm small

Site & area luminaire

Specifications (cont'd)

Electrical

Twist-Lock Receptacle (TR5/TR7): Twist Lock Receptacle with 5 pins enabling dimming or with 7 pins with additional functionality (by others) can be used with a twistlock photoelectric cell or a shorting cap. Dimming Receptacle Type B (5-pin) and Type D-24 (7-pin) in accordance to ANSI C136.41. Can be used with third-party control system. Receptacle located on top of luminaire housing. When specifying receptacle with twistlock photoelectric cell, voltage must be specified. When ordering 7-pin Twist-lock receptacle (TR7), all 7 pins are wired to respective pins with the Sensor Ready (SR) driver, and photocell or shorting cap is not included. When ordering a twist-lock receptacle with a photocell (TLP), the receptacle used is a 7-pin receptacle, with pins 6 and 7 connected to SR DALI driver. 0-10V dimming leads (pins 4 and 5) are connected if not ordered with any other dimming option.

Driver: Driver efficiency (>90% standard). 120-480V available (restrictions apply). Open/short circuit protection. All drivers are 0-10V dimming to 10% power standard, except when using Sensor Ready (SR) drivers, which uses DALI protocol (options CS50/CM50/CS30/CM30, SRDR, and TR7). Drivers are RoHS and FCC Title 47 CFR Part 15 compliant.

Button Photocontrol (PCB): Button style design for internal luminaires mounting applications. The photocontrol is constructed of a high impact UV stabilized polycarbonate housing. Rated voltage of 120V or 208-277V with a load rating of 1000 VA. The photocell will turn on with 1-4Fc of ambient light.

Surge protection (SP1/SP2): Surge protection device tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with DOE MSSLC Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High test level 10kV/10kA. 20kV / 10kA surge protection device that provides extra protection beyond the SP1 10kV/10kA level.

Buy American Act of 1933 (BAA):

This product is manufactured in one of our US factories and, as of the date of this document, this product was considered a commercially available off-the-shelf (COTS) item meeting the requirements of the BAA. This BAA designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies. Prior to ordering, please visit www.signify.com/baa to view a current list of BAA-compliant products to confirm this product's current compliance.

Listings

UL/cUL wet location listed to the UL 1598 standard, suitable for use in ambient temperatures from -40° to 40°C (-40° to 104°F). All Optiform configurations are qualified under Design Lights Consortium Premium classification. Consult DLC Qualified Products list to confirm your specific luminaire selection is approved. CCTs 3000K and warmer are Dark Sky Approved.

Finish

Each standard color luminaire receives a fade and abrasion resistant, electrostatically applied, thermally cured, triglycidal isocyanurate (TGIC) textured polyester powdercoat finish. Standard colors include bronze (BZ), black (BK), white (WH), dark gray (DGY), and medium gray (MGY). Consult Factory for specs on optional, custom colors, and marine grade paint.

Service Tag

Each individual luminaire is uniquely identifiable, thanks to the Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: signify.com

Warranty

OptiForm luminaires feature a 5-year limited warranty. See signify.com/warranties for complete details and exclusions.



Submitted by Leslie Nowalski



CHICAGO LIGHTWORKS

Job Name:
ORTHOPEDIC SPECIALISTS OF
NWI OSNI
Electrical Contractor: PALOS
ELECTRIC-CRESTWOOD

Catalog Number:

SSS-CB-4-7-23-D1-DT5-BZ, AB 3/
4X24X3-G DEC W/ 8.5 BC ABT

Notes:

Type:

F1

CLW24-28520



Poles & Brackets

Site and Area Poles

Straight Square Steel



Project: _____
Location: _____
Cat.No: _____
Type: _____
Notes: _____

The Gardco SSS Straight Square Steel pole consists of a one-piece high tensile carbon steel tube welded and secured to the carbon steel base plate providing excellent strength and integrity. The poles are finished with an electrostatically applied, thermally cured polyester powdercoat. All poles include base cover, hand hole, ground lug and top cap. Anchor bolts and templates are ordered as a separate accessory.

Ordering guide

example: SSS-CB-4-11-12-D1-DT1-BK-FES

Family	Base	Pole Shaft Size (In.)	Pole Gauge/Wall Thickness	Height (ft) ¹	Drilling/Tenon Configurations ¹	Drilling Template ²	Finish	Options ³			
	CB			23							
SSS	CB Carbon Steel Base w/ Base Cover	4	11 11 ga. / 0.120"	10	D1 1 Way D1@180 1 Way @ 180 D2 2 Way @ 180 D2@90 2 Way @ 90 D3 3 Way @ 90 D4 4 Way @ 90	DT1 Drill Template 1 DT2 Drill Template 2 DT3 Drill Template 3 DT4 Drill Template 4 DT5 Drill Template 5 DT6 Drill Template 6 (DTX-xxx) ^{6,7} Custom Template See drill template chart for details.	BK Black	FES ⁶ Festoon Outlet			
				12			BZ Bronze	VDA Vibration Dampener			
				14			WH White	AHH ⁶ Additional Hand Hole			
				15			DG Dark Grey	DR ^{6,*} Duplex Receptacle			
				16			MG Medium Grey	VPA Vandalproof Screws			
				18			GY3 [*] Light Grey, Smooth	GF1 ^{6,*} DR with GF1 (120V only)			
		20	7 7 ga. / 0.180"	20	T2D4L 2-3/8" OD x 4" length T2D6L [*] 2-3/8" OD x 6" length T3D4L 3" OD x 4" length T4D6L 4" OD x 6" length	N No Drilling Template (for Tenon and Plain Top Options)	SSDDGY [*] SolarForm Dark Grey (RAL 7011)	BAC [*] Buy American Compliant			
		25		FP/GV Finished Textured Paint over Galvanized (Specify, ex: MG/GV)			CL1/2 ⁶ Coupling 1/2"				
		30		OC Optional Color Paint (ex: RAL7024)			CL3/4 ⁶ Coupling 3/4"				
		L/SSS		6			7 7 ga. / 0.180"	30 35 40	No Drilling/No Tenon P Plain Top	SC ⁶ Special/ Custom Color (Specify, must supply color chip)	CL1 ⁶ Coupling 1"
											CL1-1/4 ⁶ Coupling 1-1/4"
											CL1-1/2 ⁶ Coupling 1-1/2"
NL1/2 ⁶ Nipple 1/2"											
NL3/4 ⁶ Nipple 3/4"											
NL1 ⁶ Nipple 1"											
NL1-1/4 ⁶ Nipple 1-1/4"											
NL1-1/2 ⁶ Nipple 1-1/2"											

- See Drilling Configurations on Page 3.
- See Luminaire Drilling Templates on Page 3.
- Not all options available with all configurations. Consult factory for more details.
- Options listed with gray text will be shipped with the Legacy SSS design. Use the L/SSS family code whenever those options are specified.
- Pole heights can be cut to length. Specify as a whole number in ft. (ex. 11, 13) or to the inch as a decimal (ex. 15.33 = 15' 4") or as "15FT 4IN" for Legacy designs.
- Option must be specified, including install location, by the customer before order release. FES, DR, GF1, AHH options typically must be placed 12-18" away from standard hand hole (20" or 12" above base).
- Custom drill templates (DTX) require factory quote.
- Option not available with Legacy SSS designs.
- Failure to properly select the "BAC" suffix could result in you receiving product that is not BAA compliant product with no recourse for an RMA or refund. This BAC designation hereunder does not address (i) the applicability of, or availability of a waiver under, the Trade Agreements Act, or (ii) the "Buy America" domestic content requirements imposed on states, localities, and other non-federal entities as a condition of receiving funds administered by the Department of Transportation or other federal agencies.
- Consult Signify to confirm whether specific accessories are BAA-compliant.

Accessories ¹⁰

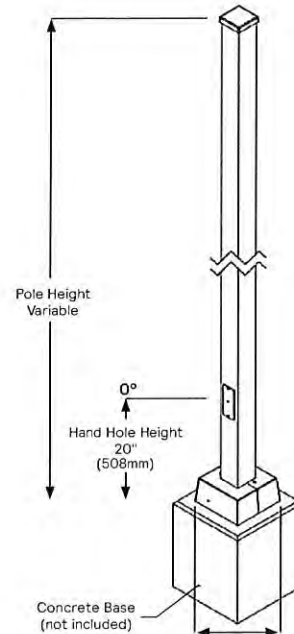
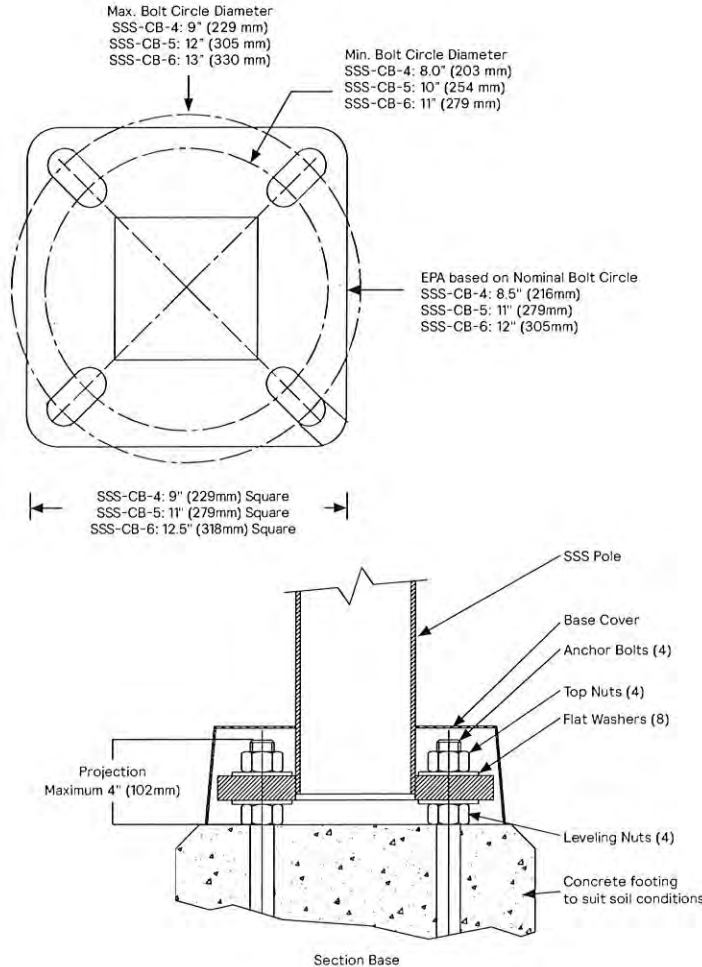
Service	Pole Size	12NC	Description (Diameter x Length x Hook)
Anchor Bolts + Templates			
For shipment with the pole (order 1 per pole)	4" Poles	912401597397	AB 3/4x24x3-G DEC w/ 8.5 BC ABT
	5" Poles	912401613107	AB 1x33x3-G DEC w/ 11 BC ABT
	6" Poles	912401597401	AB 1x33x3-G DEC w/ 12 BC ABT
For Pre-Ship service (order 1 per pole)	4" Poles	912401597405	AB 3/4x24x3-G DEC w/ 8.5 BC ABT-RS
	5" Poles	912401613106	AB 1x33x3-G DEC w/ 11 BC ABT-RS
	6" Poles	912401597408	AB 1x33x3-G DEC w/ 12 BC ABT-RS
Part No.	Description		
RLAR-1A-SQ4+ -(finish)	Cast aluminum mounting arm, 15" long with DT6 drill pattern (order 1 per luminaire). For use with Lumec Roadway and Gardco SolarForm luminaires (for SolarForm: use RLAR bracket to mount horizontally, use T2D6L tenon to mount vertically). Specify finish to match pole.		





Poles Straight Square Steel

Dimensions



Base Cover Dimensions (L x W x H)
SSS-CB-4: 9.80" x 9.80" x 4.58" (245mm x 245mm x 116mm)
SSS-CB-5: 11.80" x 11.80" x 4.58" (300mm x 300mm x 116mm)
SSS-CB-6: 13.30" x 13.30" x 4.58" (338mm x 338mm x 116mm)

SSS Legacy Design not shown.
Base Cover: Square
Hand Hole: 12" Above Base

- * Anchor Bolt Lock Washers are not normally required and are not included in standard anchor bolt sets. They are available upon request at additional cost.
- ** Grouting should include a drainage slot or tube (by others) to permit water to drain from the base of the pole. Failure to provide drainage may weaken the pole base structure over time and may result in pole base failure, for which Gardco is not responsible.

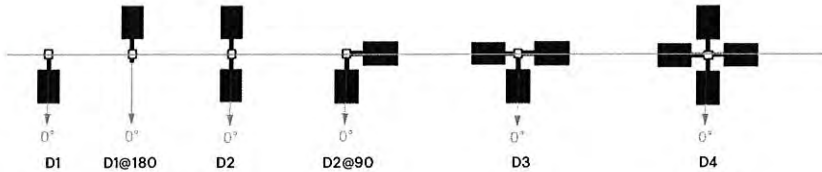
NOTE: Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.



Poles Straight Square Steel

Drilling Configuration

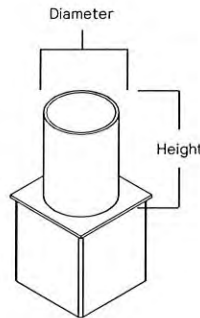
Code	Description
D1	Single luminaire
D1@180	Single luminaire @ 180
D2	Two luminaires @ 180
D2@90	Two luminaires @ 90
D3	Three luminaires @ 90
D4	Four luminaires @ 90



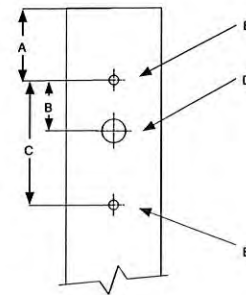
Ref. access door at 0° for all
 Legacy design places access door at 180°

Tenon Dimensions

Tenon	Diameter	Height
T2D4L	2.375" (60mm)	4" (102mm)
T2D6L	2.375" (60mm)	6" (152mm)
T3D4L	3" (76mm)	4" (102mm)
T4D6L	4" (102mm)	6" (152mm)



Pole Top Drilling



Luminaire Drill Pattern

Code	Description	Luminaires	Pole Drilling				
			A To Pole Top	B	C Full Extent	D Wireway Hole	E Bolt Hole
DT1	Drill Template 1	Gardco SlenderForm Round SFRA	2.25" (57mm)	1.5" (38.1mm)	3" (76mm)	0.875" (22.2mm)	0.40" (10.2mm)
DT2	Drill Template 2	Gardco SlenderForm Square - SFA Gardco Gullwing - GL13, GL18 Gardco Form Ten - EH14L, EH19L, CAL17, CAL22, MAL17, MAL22	2.25" (57mm)	2.17" (55mm)	3.84" (98mm)	0.875" (22.2mm)	0.39" (9.9mm)
DT3	Drill Template 3	Gardco PowerForm PFAS	2.25" (57mm)	1.75" (44mm)	3.84" (98mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT4	Drill Template 4	Gen1 Stonco/Keene AL150-G1, AL200-G1	2.5" (64mm)	1.7" (43mm)	3.5" (89mm)	0.875" (22.2mm)	0.41" (10.4mm)
DT5	Drill Template 5	Gardco EcoForm Gen2 - ECF-S, ECF-L Gardco PureForm Gen2 - P15, P20, P26, P34 OptiForm Small - OPF-S OptiForm Med - OPF-M OptiForm Large - OPF-L	3" (76mm)	1" (25mm)	3" (76mm)	1" (25mm)	0.41" (10.4mm)
DT6	Drill Template 6	Hole pattern drilled for the following: Gen2 Stonco/Keene AL70-G2 and AL150-G2, or to attach RLAR bracket accessory, suitable for use with: Lumec Capella CPLM, CPLS Lumec RoadStar GPLM, GPLS Lumec RoadFocus RFS, RFM, RFL Lumec RoadView RVM, RVS Lumec MiniView SVS Lumec StreetView SVM Gardco SolarForm BRP710	2.5" (64mm)	1" (25mm)	2" (50mm)	0.875" (22mm)	0.5" (12.7mm)



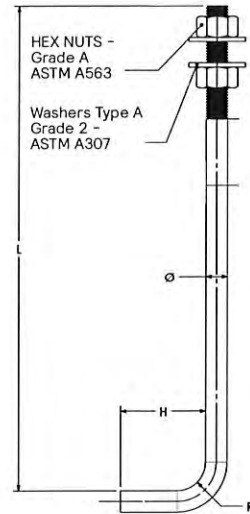
Poles Straight Square Steel

Pole Data

Product Catalog Number	Pole Specs				Anchor Bolt Data			
	Height (ft.)	Pole Diameter (in.)	Wall Thickness (in.)	Pole Weight (lbs)	Bolt Circle (in.)	Anchor Bolt Spec (in.)	Legacy Anchor Bolt Spec (in.)	Anchor Bolt Max Proj. (in.)
SSS-CB-4-11-10	10	4	0.12	63	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-12	12	4	0.12	76	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-14	14	4	0.12	88	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-15	15	4	0.12	94	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-16	16	4	0.12	101	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-18	18	4	0.12	113	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-20	20	4	0.12	126	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-11-25	25	4	0.12	157	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-20	20	4	0.18	185	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-4-7-25	25	4	0.18	232	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
● SSS-CB-4-7-30	30	4	0.18	278	8.5 (+/- 0.5)	3/4 x 24 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-20	20	5	0.12	158	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-11-25	25	5	0.12	197	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-11-30	30	5	0.12	237	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-20	20	5	0.18	234	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
SSS-CB-5-7-25	25	5	0.18	292	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-30	30	5	0.18	350	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-5-7-35	35	5	0.18	409	11 (+/- 1)	1 x 33 x 3	3/4 x 24 x 3	4
● SSS-CB-6-7-30	30	6	0.18	423	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-35	35	6	0.18	493	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4
● SSS-CB-6-7-40	40	6	0.18	564	12 (+/- 1)	1 x 33 x 3	1 x 33 x 3	4

● SSS Legacy Design

Standard Anchor Bolt




Pole Data (cont.)

Product Catalog Number	AASHTO 2001 - EPA ft ²								CSA - EPA ft ²							
	80 MPH	90 MPH	100 MPH	110 MPH	120 MPH	130 MPH	140 MPH	150 MPH	300 Pa 79 MPH	400 Pa 91 MPH	500 Pa 102 MPH	600 Pa 111 MPH	700 Pa 120 MPH	800 Pa 129 MPH	900 Pa 136 MPH	1000 Pa 144 MPH
SSS-CB-4-11-10	30.00	26.82	21.25	17.13	13.99	11.55	9.62	8.07	30.00	27.03	21.10	17.15	14.34	12.23	10.59	9.27
SSS-CB-4-11-12	28.31	21.72	17.04	13.55	10.88	8.83	7.19	5.88	30.00	21.74	16.76	13.44	11.08	9.30	7.92	6.82
SSS-CB-4-11-14	23.54	17.83	13.77	10.77	8.48	6.69	5.26	4.15	24.79	17.66	13.40	10.53	8.51	6.98	5.79	4.85
SSS-CB-4-11-15	21.53	16.22	12.41	9.57	7.43	5.76	4.44	3.36	22.58	15.92	11.94	9.30	7.40	5.96	4.87	3.97
SSS-CB-4-11-16	19.70	14.69	11.12	8.48	6.47	4.91	3.65	2.66	20.58	14.37	10.65	8.16	6.37	5.05	4.03	3.19
SSS-CB-4-11-18	16.19	11.82	8.72	6.43	4.67	3.30	2.21	1.33	17.07	11.59	8.31	6.12	4.56	3.38	2.47	1.74
SSS-CB-4-11-20	13.29	9.46	6.72	4.67	3.13	1.92	N/A	N/A	14.07	9.20	6.29	4.34	2.95	1.90	1.10	N/A
SSS-CB-4-11-25	7.78	4.86	2.78	1.22	N/A	N/A	N/A	N/A	7.95	4.26	2.06	N/A	N/A	N/A	N/A	N/A
SSS-CB-4-7-20	22.23	16.63	12.62	9.65	7.40	5.65	4.26	3.15	23.05	15.94	11.67	8.83	6.78	5.26	4.09	3.15
SSS-CB-4-7-25	14.87	10.59	7.54	5.28	3.56	2.23	1.16	N/A	14.83	9.42	6.17	4.01	2.46	1.31	N/A	N/A
● SSS-CB-4-7-30	9.63	6.25	3.82	2.01	N/A	N/A	N/A	N/A	8.36	4.20	1.72	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-11-20	22.64	16.51	12.13	8.89	6.43	4.51	2.99	1.76	24.95	17.04	12.29	9.10	6.84	5.14	3.82	2.76
SSS-CB-5-11-25	14.32	9.62	6.25	3.79	1.90	N/A	N/A	N/A	16.16	10.00	6.29	3.83	2.06	N/A	N/A	N/A
● SSS-CB-5-11-30	8.28	4.53	1.86	N/A	N/A	N/A	N/A	N/A	9.30	4.42	1.48	N/A	N/A	N/A	N/A	N/A
SSS-CB-5-7-20	30.00	27.78	21.37	16.63	13.01	10.21	7.97	6.17	30.00	28.15	21.16	16.51	13.19	10.71	8.77	7.21
SSS-CB-5-7-25	25.42	18.54	13.62	9.97	7.19	5.05	3.34	1.98	27.74	18.68	13.23	9.61	7.02	5.08	3.56	2.37
● SSS-CB-5-7-30	17.45	11.94	8.01	5.08	2.88	1.16	N/A	N/A	18.54	11.33	7.02	4.12	2.07	N/A	N/A	N/A
● SSS-CB-5-7-35	11.37	6.84	3.62	1.22	N/A	N/A	N/A	N/A	10.73	5.08	1.70	N/A	N/A	N/A	N/A	N/A
● SSS-CB-6-7-30	27.54	19.44	13.66	9.38	6.14	3.59	1.57	N/A	30.00	20.55	13.99	9.59	6.47	4.11	2.27	N/A
● SSS-CB-6-7-35	19.06	12.39	7.60	4.05	1.36	N/A	N/A	N/A	21.06	12.23	6.96	3.42	N/A	N/A	N/A	N/A
● SSS-CB-6-7-40	12.29	6.64	2.60	N/A	N/A	N/A	N/A	N/A	12.21	5.17	N/A	N/A	N/A	N/A	N/A	N/A

- Warning: Additional wind loading, in terms of EPA, from banners, cameras, floodlights and other accessories attached to the pole, must be added to the luminaire(s) EPA before selecting the pole with the appropriate wind load capability. Specifying BAA or BAC compliant poles may result in different EPA ratings.
- Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement resulting from failure to use factory supplied templates. Exact length of anchor bolts may vary.
- EPA ratings are based on the listed, optimal midpoint of the bolt circle. The bolt circle has limited variability but the EPA rating will change.

NOTE: Above EPA (Effective Projected Area) rating is in accordance with AASHTO 2001, with a 50 pound load (22.7 kg) placed at 1 foot (305mm) above its center.

Submitted by Leslie Nowalski 	Job Name: ORTHOPEDIC SPECIALISTS OF NWI OSNI Electrical Contractor: PALOS ELECTRIC-CRESTWOOD	Catalog Number: SSS-CB-4-7-23-D1-DT5-BZ, AB 3/ 4X24X3-G DEC W/ 8.5 BC ABT Notes:	Type: F1 CLW24-28520
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Poles Straight Square Steel

Specifications

Pole shaft

The pole shaft is fabricated from a single piece of 11 ga (0.1196") or 7 ga (0.180") high tensile carbon steel. The formed steel plate is longitudinally welded providing minimum yield strength of 50 ksi. Shaft includes factory installed copper ground lug, 10-7 copper wire, and ground lug screw.

Anchor Base

The pole anchor base is fabricated from 44W structural quality carbon steel with a minimum yield strength of 44 ksi. The base plate is circumferentially welded on both top and bottom.

Anchor Bolts

Anchor bolts are fabricated from a commercial quality hot rolled carbon steel bar that meets or exceeds a minimum guaranteed yield strength of 55 ksi. Bolts have an "L" bend on one end and threaded on the opposite end. Anchor bolts are galvanized in accordance with ASTM A-153.6 C1.C. Four (4) properly sized bolts, each furnished with two (2) regular hex nuts and two (2) flat washers, are provided per pole (priced and ordered separately), unless otherwise specified. Conforms to AASHTO M 314 90 and ASTM F1554.

Customer Specified Options

The options, DTX, FES, DR, GFI, AHH, CL*, and NL* require factory quotation. Poles with custom drilling templates (DTX) are provided as a service, however Signify holds no liability for improper installation and safety when using non-Signify luminaires or attachments on Gardco poles via drilling, tenon mounting, or coupling and nipple mounting. It is the responsibility of the customer to ensure the pole is loaded and installed in a safe manner to the limitations of the pole structure. See "Warning" paragraph for more details.

Base Cover

A two-piece painted square aluminum base cover that completely conceals the entire base plate and anchorage. Base cover is provided standard. Legacy design is provided with a composite base cover.

Hand hole

The hand hole has a nominal rectangular 2"x4.5" inside opening in the pole shaft. Included is an aluminum cover plate, EPDM gasket, and captive attachment screws. The hand hole is located 20" above the base and 0° clockwise with respect to the luminaire arm when viewed from the top of the pole for one arm. For two arms the hand hole is located directly under one arm. Legacy design includes an easy to install, self-contained Swing Latch hand hole cover assembly. U.S. Patent Swing Latch cover is fabricated from durable polycarbonate/ABS blend plastic. All pole assemblies are provided with a 2.50" x 5.00" rectangular hand hole.

Pole Top Cap

Each pole assembly is provided with a removable aluminum pole top cap painted to match the specified pole and attached with two pressure screws. Legacy design is provided with a removable plastic top push cap. Finish is Black.

Finish

Poles are available with Gardco's standard textured color finishes - Black, White, Bronze, Dark Grey, Medium Grey, and Lumec GY3 for a match with roadway luminaire finishes. Optional Galvanized finish and custom colors also available. Legacy design is provided with gloss paint on standard finishes.

Couplings and Nipples

Couplings (NPSC standard internal threads) and Nipples (NPT standard external threads) are available to mount 3rd party objects to the pole. For most applications Couplings and Nipples must be at least 4' from the base of the pole. Lengths are as follows:

- Couplings < 1" dia. = 1" length
- Couplings >= 1" dia. = 1.5" length
- Nipples < 1" dia. = 1.5" length
- Nipples >= 1" dia. = 2" length

Legacy pole designs may deviate from specifications listed here. See "Customer Specified Options" paragraph for more details.

Duplex Receptacle (DR and GFI)

DR and GFI options are placed at 2' below the pole top on the same side as the hand hole unless otherwise specified. DR or GFI options cannot be placed within 1' of the the hand hole. Options can typically be placed 32" above base for utility purposes. Maximum output of the receptacles are 15A.

General Pole Information

Design

EPA specs conform to AASHTO 2001 standard. The poles as charted are designed to withstand dead loads and predicted dynamic loads developed by variable wind pressure with an additional 2.5 gust factor under the following conditions: The charted weights include luminaire(s) and/or mounting bracket(s). Poles installed in areas of known abnormal conditions may require special consideration. For example: coastal areas, airports and areas of special winds. Poles are designed for ground mounted applications. Poles mounted on structures (such as buildings and bridges) may also necessitate special consideration requiring Gardco's recommendation. Height correction factors and drag coefficients are applied to the entire structure. An appropriate safety factor is maintained based on the minimum yield strength of the material incorporated in the pole.

Warning

This design information is intended as a general guideline only. The customer is solely responsible for proper selection of pole, luminaire, accessory and foundation under the given site conditions and intended usage. The addition of any items to the pole, in addition to the luminaire, will dramatically impact the EPA load on that pole. It is strongly recommended that a qualified professional be consulted to analyze the loads given the user's specific needs to ensure proper selection of the pole, luminaire, accessories, and foundation. Gardco assumes no responsibility for such proper analysis or product selections. Failure to ensure proper site analysis, pole selection, loads and installation can result in pole failure, leading to serious injury or property damage.

Warranty

Gardco Steel poles are covered by a 3-year structural and finish warranty. Legacy designs are covered by a 1-year warranty. For more information visit signify.com/warranties

