



# 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. 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).

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**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](http://www.munster.org)

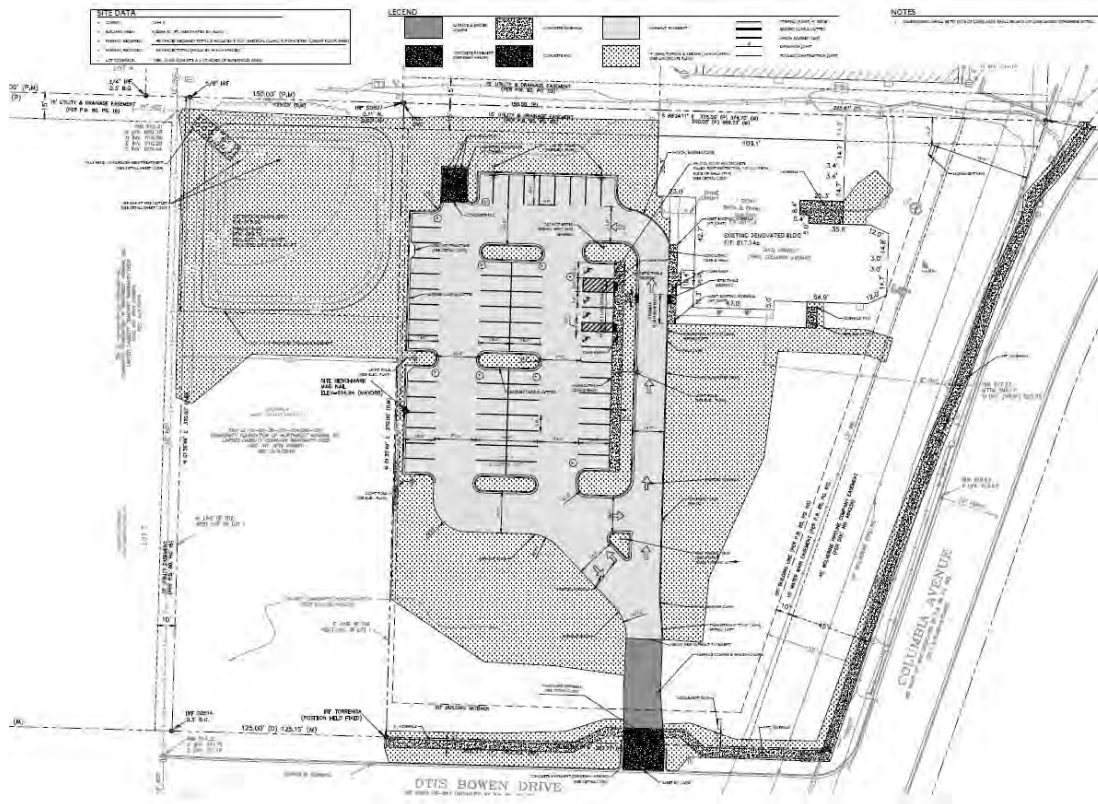
**PROJECT BRIEFING**

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).

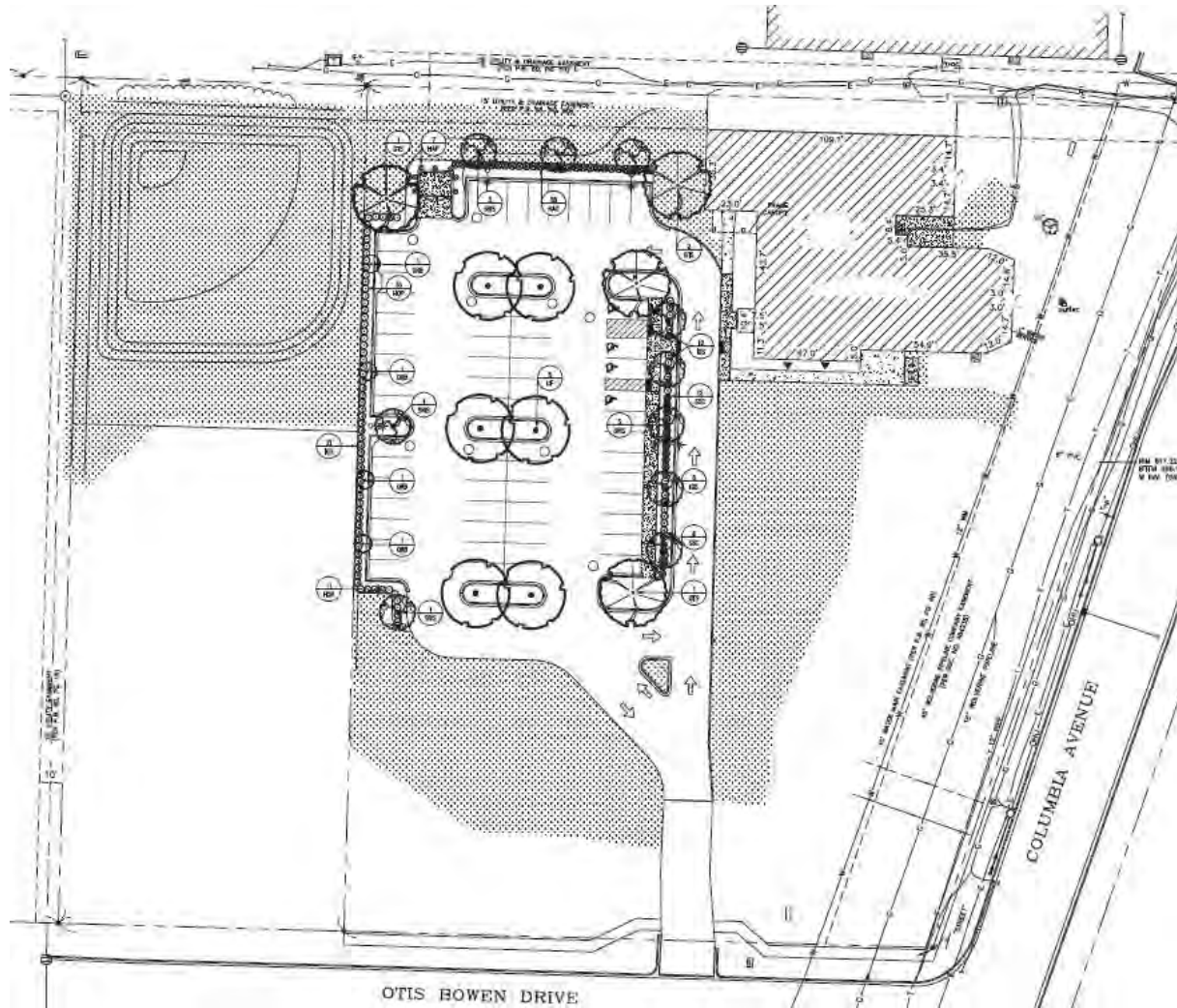
The proposed renovation and expansion are planned for in two phases. In phase 1 OSNI is proposing to renovate the existing 9,844 SF religious use structure into a medical and office facility, expand the existing parking facility to accommodate 63 parking spaces, including four ADA parking spaces; from 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.

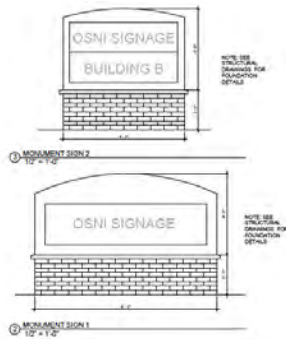
**STAFF FINDINGS and RECOMMENDATION**

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.

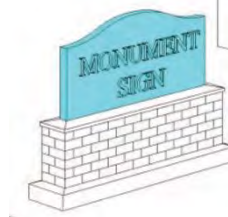
In addition, wall signage will need clarification regarding quantity, size, and material. Additional information may require a Developmental Standards Variance upon review of a submitted sign permit application. More particularly where internal lit logo over existing cross is referenced.

**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**

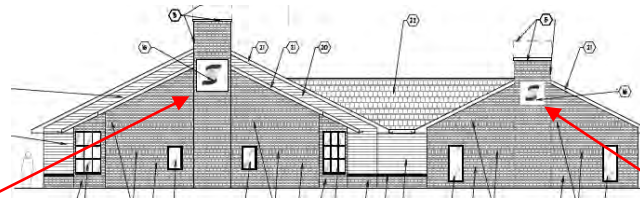
In addition to all other applicable standards, each Monument Sign allowed under this Article:

- 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 lwertth@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.

ROGELAND ASSOCIATES / ZENON KURDZIEL 708-435-0300  
 Name of Registered Engineer, Architect or Land Surveyor Phone Number  
1 RIVERSIDE DR., RIVERSIDE, IL. ZENON@Rogelandassociates.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]  
Signature of Owner 8/30/24  
Date

[Signature] E. Anthony Inc.  
Signature of Applicant 8/30/24  
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
<b>Single-Family Residential Subdivision</b>		/
Preliminary Plat		/
Engineering Plans		/
Storm Water Report		/
<b>Commercial or Multi-Family Residential Subdivision</b>		
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		/

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

<b>REZONING (including PLANNED UNIT DEVELOPMENT amendments)</b>	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		/

<b>DEVELOPMENT PLAN</b>	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 subdivide 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

<b>Date:</b> 09/03/2024	<b>Project:</b> Orthopedic Specialists of Northwest Indiana (OSNI) 9900 Columbia Avenue Munster, Indiana 46321
<b>EAI #:</b> 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.*

# ALTA/NSPS LAND TITLE SURVEY

PARCEL DESCRIPTION (PER EXHIBIT "A" IN TITLE COMMITMENT REFERENCED HEREON):

LOT 1, EXCEPT THE WEST 125 FEET THEREOF, IN CALVARY COMMUNITY CHURCH ADDITION TO THE TOWN OF MUNSTER, AS PER PLAT THEREOF, RECORDED IN PLAT BOOK 85 PAGE 60, IN THE OFFICE OF THE RECORDER OF LAKE COUNTY, INDIANA.

## SUBJECT PARCEL INFORMATION:

TAX ID. 45-06-36-276-003.000-027  
OWNER: THE GATE CHURCH, INC.  
QUIT CLAIM DEED  
DOCUMENT NO. 2014 003540  
REC. 1/17/2014

## PARCEL AREA:

117.062 SQ. FT.  
2.69 ACRES±

## ALTA/NSPS OPTIONAL TABLE "A" SURVEY RESPONSIBILITIES AND SPECIFICATIONS ITEM NOTES:

ITEM 1: MONUMENTS SET OR FOUND ARE SHOWN HEREON.

ITEM 2: ADDRESS SHOWN HEREON IS PER THE LAKE COUNTY AUDITOR'S RECORDS AND SHOWN ON THE RECORDED SUBDIVISION PLAT.

ITEM 3: FLOOD ZONE DESIGNATION: THE ACCURACY OF ANY FLOOD HAZARD DATA SHOWN ON THIS PLAT IS SUBJECT TO MAP SCALE UNCERTAINTY AND TO ANY OTHER UNCERTAINTY IN LOCATION OR ELEVATION ON THE FLOOD INSURANCE RATE MAP, (FIRM), THE SUBJECT PARCEL DESCRIBED IN THE PARCEL DESCRIPTION SHOWN HEREON APPEARS TO LIE WITHIN THAT FLOOD HAZARD ZONE "X" (SHADED) AREAS DETERMINED TO BE INSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN AS SAID SUBJECT PARCEL PLOTS BY SCALE ON FLOOD INSURANCE RATE MAP FOR THE TOWN OF MUNSTER, LAKE COUNTY, INDIANA, COMMUNITY NUMBER 180139, PANEL NO. 180890117E. MAP EFFECTIVE DATE: JANUARY 18, 2012.

ITEM 4: LAND AREA IS SHOWN HEREON.

ITEM 5: VERTICAL RELIEF - ELEVATIONS AND THE RESULTING CONTOURS (1-FOOT INTERVAL UNLESS OTHERWISE SPECIFIED) SHOWN HEREON WERE MEASURED ON THE GROUND THIS SURVEY AND ARE REFERENCED TO A STATEWIDE GNSS REFERENCE STATION NETWORK KNOWN AS INCORS WHICH IS MAINTAINED BY THE INDIANA DEPARTMENT OF TRANSPORTATION USING THE NORTH AMERICAN VERTICAL DATUM OF 1988.

ITEM 7(a): EXTERIOR DIMENSIONS OF ALL BUILDINGS AT GROUND LEVEL ARE SHOWN HEREON.

ITEM 8: SUBSTANTIAL VISIBLE FEATURES SUCH AS PARKING LOTS, BILLBOARDS, SIGNS, SWIMMING POOLS, LANDSCAPED AREAS, AND SUBSTANTIAL AREAS OF REFUSE (IF ANY) ARE SHOWN HEREON.

ITEM 9: STRIPING OF CLEARLY IDENTIFIABLE PARKING SPACES ON SURFACE PARKING AREAS AND LOTS, PARKING TYPES, AND THE NUMBER OF SPACES ARE SHOWN HEREON.  
60 REGULAR PARKING SPACES WERE OBSERVED.

ITEM 11(a): LOCATION OF UTILITIES EXISTING ON OR SERVING THE SURVEYED PROPERTY WAS DETERMINED BY OBSERVED EVIDENCE AND EVIDENCE FROM PLANS REQUESTED BY THE SURVEYOR AND OBTAINED FROM UTILITY COMPANIES OR PROVIDED BY CLIENT TO DEVELOP A VIEW OF UNDERGROUND UTILITIES. HOWEVER, LACKING EXCAVATION, THE EXACT LOCATION OF UNDERGROUND FEATURES CANNOT BE ACCURATELY, COMPLETELY, AND RELIABLY DEPICTED. LOCATIONS OF UNDERGROUND UTILITIES/STRUCTURES MAY VARY FROM VISIBLE LOCATIONS SHOWN HEREON. ADDITIONAL BURIED UTILITIES/STRUCTURES MAY BE ENCOUNTERED. NO EXCAVATIONS OR PROBINGS WERE MADE DURING THE PROGRESS OF THIS SURVEY TO LOCATE BURIED UTILITIES/STRUCTURES, DRAINAGE TILES, UNDERGROUND DITCHES, FEEDERS OR LATERALS. NO ATTEMPT HAS BEEN MADE AS A PART OF THIS SURVEY TO OBTAIN DATA CONCERNING SIZE, DEPTH, CONDITION, CAPACITY OF ANY UTILITIES LOCATED WITHIN THE SITE SURVEYED OR SERVING THE SITE, UNLESS SHOWN HEREON. A UTILITY LOCATE REQUEST WAS MADE FOR THE SITE (INDIANA 811, TICKET NO. 2306086148). IF ADDITIONAL OR MORE DETAILED INFORMATION IS REQUIRED, EXCAVATION AND/OR A PRIVATE UTILITY LOCATE REQUEST MAY BE NECESSARY.

ITEM 13: NAMES OF ADJOINING OWNERS ACCORDING TO PUBLIC RECORDS ARE SHOWN HEREON. PARCELS IDENTIFIED BY TITLE DESCRIPTION OR RECORD REFERENCES AS PER 865 IAC 1-12-13-(11) ARE OBTAINED FROM COUNTY AUDITOR'S OFFICE AND OR RECORDER'S OFFICE AND ARE NOT CERTIFIED. THE INFORMATION MAY OR MAY NOT REFERENCE THE MOST CURRENT DEED OF RECORD OR THE MOST CURRENT STATUS OR TITLE FOR THAT PARCEL.

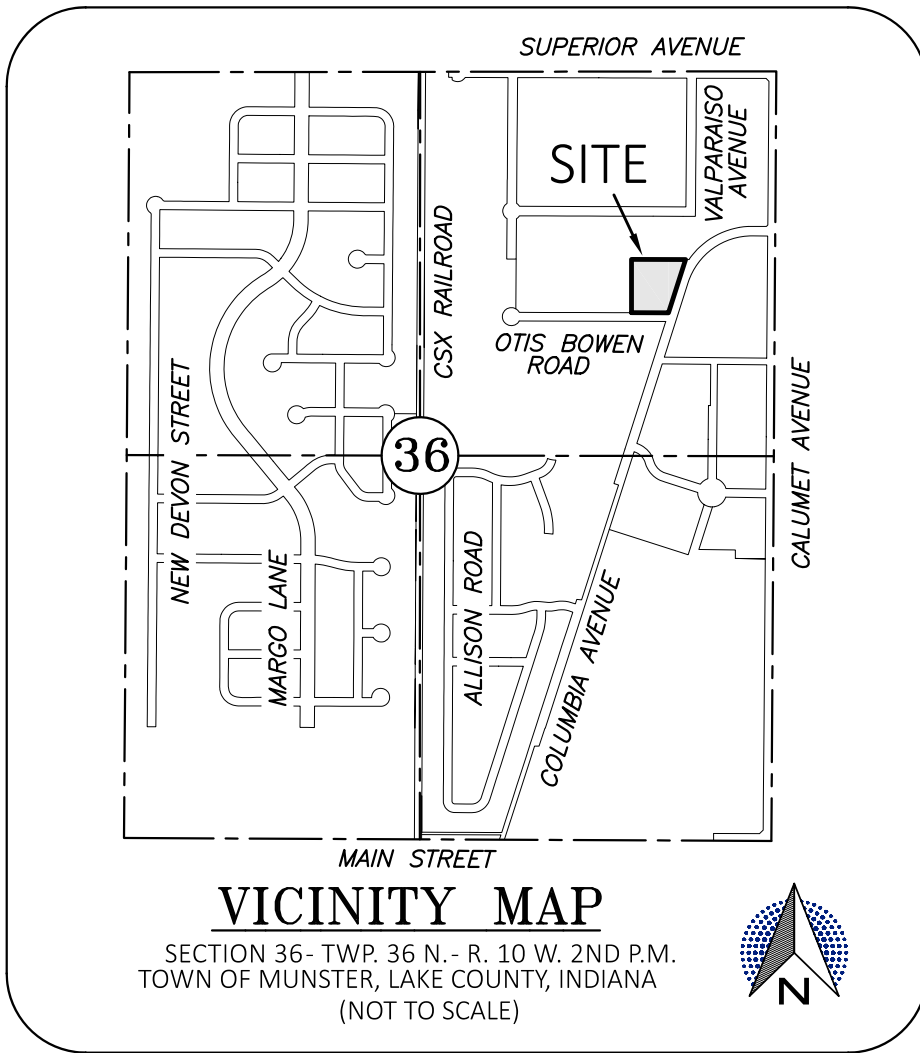
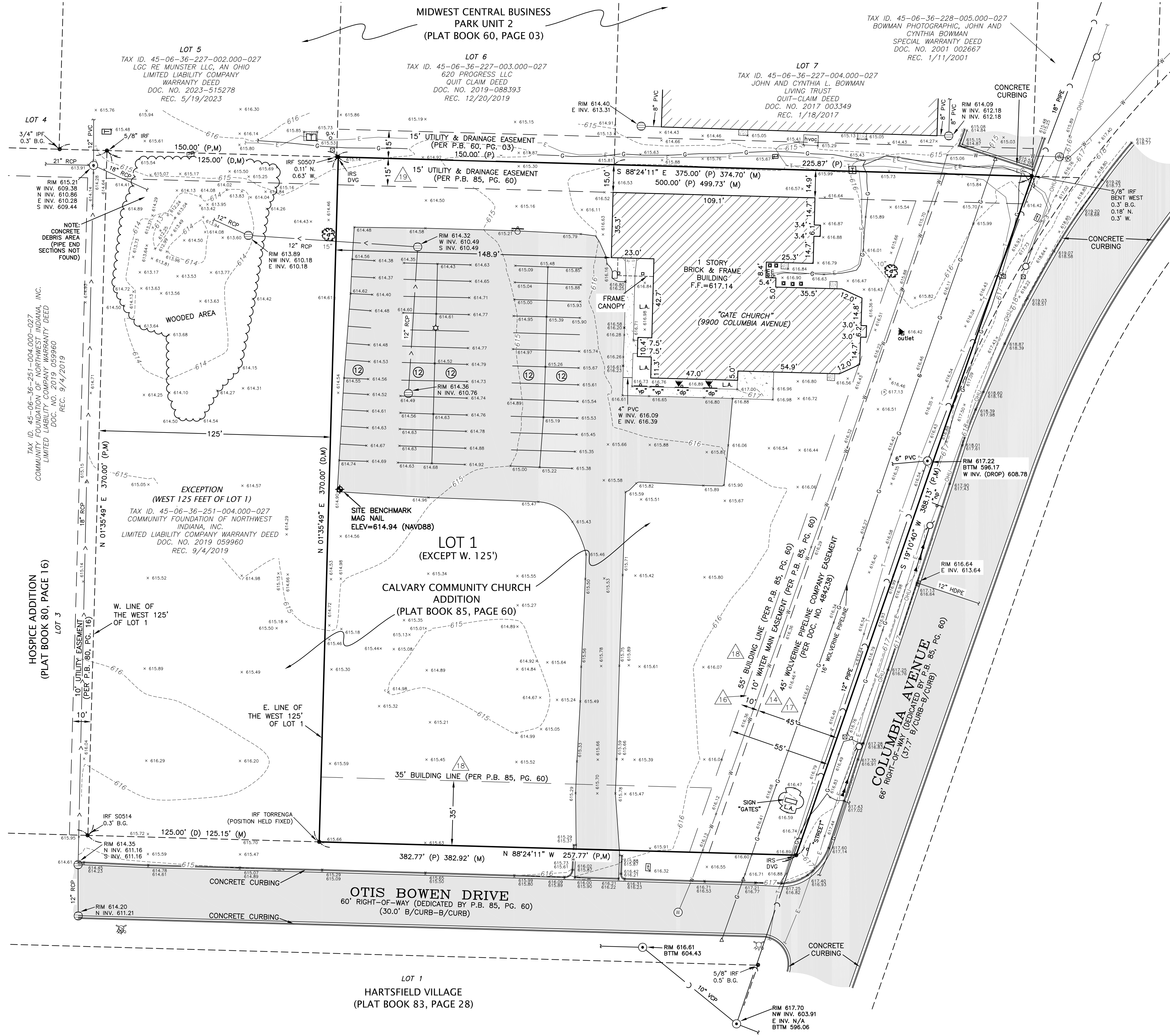
## GENERAL NOTES:

- EXCEPT AS SPECIFICALLY STATED OR SHOWN ON THIS PLAT, THIS SURVEY DOES NOT PURPORT TO REFLECT ANY OF THE FOLLOWING WHICH MAY BE APPLICABLE TO THE SUBJECT REAL ESTATE:
  - EASEMENTS, OTHER THAN THE POSSIBILITY OF EASEMENTS WHICH WERE VISIBLE BY PHYSICAL EVIDENCE AT THE TIME OF THIS SURVEY OR SHOWN BY DOCUMENT PROVIDED AND RECORD PLAT.
  - BUILDING SETBACK LINES, RESTRICTIVE COVENANTS, SUBDIVISION RESTRICTIONS, ZONING OR OTHER LAND-USE REGULATIONS, OTHER THAN THAT SHOWN ON THE RECORD PLAT.
  - OWNERSHIP OR TITLE.

2) THIS SURVEY DOES NOT ADDRESS THE EXISTENCE, IF ANY, OF ITEMS THAT WOULD REQUIRE AN INTERPRETATION BY THE SURVEYOR, (I.E. COMPLIANCE WITH ALL ZONING REQUIREMENTS) EXISTENCE OF ITEMS BEYOND THE QUALIFICATION OF SURVEYOR (I.E. WETLANDS, HAZARDOUS MATERIAL) AND ITEMS NOT READILY VISIBLE DURING A REASONABLE INSPECTION OF SITE (PAST CEMETERIES, LANDFILLS, AND MINERAL RIGHTS).

3) THIS SURVEY MAY NOT REFLECT ALL UTILITIES OR IMPROVEMENTS IF SUCH ITEMS ARE HIDDEN BY LANDSCAPING OR ARE OBSERVED BY SUCH ITEMS AS DUMPSTERS, TRAILERS, CARS, DIRT, PAVING OR SNOW. AT THE TIME OF THIS SURVEY, SNOW DID NOT COVER THE SITE. LAWN SPRINKLERS SYSTEMS, IF ANY, ARE NOT SHOWN ON THIS SURVEY.

4) BASIS OF BEARINGS: THE MONUMENTED SOUTH LINE OF LOT 1 BEING N 88°24'11" W, PER THE RECORDED PLAT OF CALVARY COMMUNITY CHURCH ADDITION (SURVEY REFERENCE NUMBER 2 HEREON).



## TITLE COMMITMENT NOTES:

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. ALL INFORMATION REGARDING RECORD EASEMENTS AND OTHER DOCUMENTS WHICH MAY AFFECT THE QUALITY OF TITLE TO PARCEL SHOWN HEREON WAS GAINED FROM AN ALTA COMMITMENT FOR TITLE INSURANCE, COMMITMENT NUMBER FNW2301358 ISSUED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ON 5/25/2023. THE FOLLOWING SURVEY RELATED MATTERS CORRESPOND TO THE ITEMS NUMBERED IN SCHEDULE B, PART 2, EXCEPTIONS IN SAID COMMITMENT AND ARE ADDRESSED HEREON IN THE FOLLOWING MANNER:

- ITEM 14 EASEMENT FOR PIPE LINE IN FAVOR OF WOLVERINE PIPE LINE COMPANY, DATED OCTOBER 7, 1969, RECORDED OCTOBER 9, 1969, AS DOCUMENT NO. 34699, AND RE-RECORDED AUGUST 10, 1978, AS DOCUMENT NO. 484238-AFFECTS SUBJECT PARCEL AND SHOWN HEREON.
- ITEM 15 COVENANTS, CONDITIONS, AND RESTRICTIONS CONTAINED IN TRUSTEE'S DEED FROM MERCANTILE BANK OF INDIANA, AS TRUSTEE, UNDER THE PROVISIONS OF A TRUST AGREEMENT DATED OCTOBER 27, 1986, AND KNOWN AS TRUST NUMBER 4893, TO CALVARY ASSEMBLY OF GOD CHURCH OF MUNSTER, INDIANA, DATED MARCH 22, 1993, AND RECORDED APRIL 16, 1993, AS DOCUMENT NO. 93024189-AFFECTS SUBJECT PARCEL - NOT PLATTABLE.
- ITEM 16 10 FEET WATER MAIN EASEMENT OVER THE WEST 10 FEET OF THE EAST 55 FEET OF THE LAND AS SHOWN ON RECORDED PLAT OF SAID SUBDIVISION-AFFECTS SUBJECT PARCEL AND SHOWN HEREON.
- ITEM 17 45 FEET WOLVERINE PIPELINE CO. EASEMENT OVER THE EAST 45 FEET OF THE LAND AS SHOWN ON RECORDED PLAT OF SAID SUBDIVISION-AFFECTS SUBJECT PARCEL AND SHOWN HEREON.
- ITEM 18 BUILDING LINES OVER THE EAST 55 FEET AND THE SOUTH 35 FEET OF THE LAND AS SHOWN ON RECORDED PLAT OF SAID SUBDIVISION-AFFECTS SUBJECT PARCEL AND SHOWN HEREON.
- ITEM 19 EASEMENT FOR UTILITIES AND DRAINAGE OVER THE NORTH 15 FEET OF THE LAND AS SHOWN ON RECORDED PLAT OF SAID SUBDIVISION-AFFECTS SUBJECT PARCEL AND SHOWN HEREON.

## SURVEY REFERENCES:

- RECORD DEEDS REFERENCED HEREON.
- RECORDED SUBDIVISION PLAT OF "CALVARY COMMUNITY CHURCH ADDITION", RECORDED NOVEMBER 9, 1998 IN PLAT BOOK 85, PAGE 60 AS DOCUMENT NUMBER 98088805.
- RECORDED SUBDIVISION PLAT OF "HOSPICE ADDITION", RECORDED FEBRUARY 22, 1996 IN PLAT BOOK 80, PAGE 16 AS DOCUMENT NUMBER 96011549.
- RECORDED SUBDIVISION PLAT OF "MIDWEST CENTRAL BUSINESS PARK UNIT 2", RECORDED SEPTEMBER 5, 1985 IN PLAT BOOK 60, PAGE 03 AS DOCUMENT NUMBER 81888689.
- RECORDED ALTA/NSPS LAND TITLE SURVEY OF THE WEST 125 FEET OF LOT 1 IN CALVARY COMMUNITY CHURCH ADDITION AND LOTS 2 AND 3 IN HOSPICE ADDITION BY TORRENZA SURVEYING, LLC, RECORDED JULY 22, 2019 IN SURVEY BOOK 33, PAGE 61 AS DOCUMENT NUMBER 2019 045220.
- RECORDED GRANT OF EASEMENT AND PLAT OF VACATION OF THAT PART OF COLUMBIA AVENUE IN BLOCK 6 IN MIDWEST CENTRAL BUSINESS PARK TO THE TOWN OF MUNSTER, RECORDED IN PLAT BOOK 68, PAGE 37.

## SURVEYOR'S REPORT:

IN ACCORDANCE WITH TITLE 865, ARTICLE 1.0, CHAPTER 12 OF THE INDIANA ADMINISTRATIVE CODE, THE FOLLOWING OBSERVATIONS AND OPINIONS ARE SUBMITTED REGARDING THE VARIOUS UNCERTAINTIES IN THE LOCATION OF THE LINES AND CORNERS ESTABLISHED OR REESTABLISHED ON THIS SURVEY. THIS PLAT REPRESENTS A RETRACEMENT SURVEY OF A LOT LESS EXCEPTION IN A PLATTED SUBDIVISION.

THEORY OF LOCATION: A SEARCH FOR MONUMENTS AROUND THE SUBJECT PARCEL WAS PERFORMED THIS SURVEY. A REBAR WITH A TORRENZA CAP WAS FOUND AT THE SOUTHWEST CORNER OF THE SUBJECT PARCEL AND ITS POSITION WAS HELD FIXED FOR THIS SURVEY. A REBAR WITH "S0514" CAP WAS FOUND AT THE SOUTHWEST CORNER OF LOT 3 IN HOSPICE ADDITION (MONUMENT NOT SHOWN HEREON) AND HELD FIXED FOR LINE. ADDITIONAL MONUMENTS WERE FOUND AND SHOWN HEREON. PLATTED DISTANCES AND BEARINGS WERE USED TO CALCULATE THE POSITIONS OF THE REMAINING SUBJECT PARCEL CORNERS AND WERE MONUMENTED THIS SURVEY.

A) CONDITION OF FOUND REFERENCE MONUMENTS: UNLESS OTHERWISE STATED ON THIS PLAT, REFERENCE MONUMENTS WERE FOUND UNDISTURBED, AT OR NEAR GRADE AND OF UNKNOWN ORIGIN. UNCERTAINTY IN LOCATION OF FOUND MONUMENTS MEASURED 0.3 FEET EAST-WEST AND 0.2 FEET NORTH-SOUTH.

B) NO APPARENT UNCERTAINTIES DUE TO SUBSTANTIAL OBSERVED OCCUPATION OR POSSESSION EXCEPT FOR AS FOLLOWS: THERE WAS VISIBLE EVIDENCE OF STORM WATER PIPE THAT EXITS THE SUBJECT PARCEL TO THE WEST INTO WHAT WAS POSSIBLY A FORMER STORM WATER DETENTION AREA NOW LOCATED ON THE WEST 125 FEET OF LOT 1 IN THE SUBJECT SUBDIVISION (ALL AS SHOWN HEREON). AN AREA LIGHT WAS LOCATED IN THE WOLVERINE PIPELINE EASEMENT ON THE EAST SIDE OF THE SUBJECT BUILDING AND SHOWN HEREON. THE SIGN FOR THE CHURCH WAS LOCATED IN THE WOLVERINE PIPELINE EASEMENT NEAR THE SOUTHEAST CORNER OF THE SUBJECT PARCEL AND SHOWN HEREON.

C) NO APPARENT UNCERTAINTIES DUE TO RECORD DESCRIPTIONS.

D) THE RELATIVE POSITIONAL ACCURACY (DUE TO RANDOM ERRORS IN MEASUREMENTS) FOR THIS SURVEY, BASED ON EQUIPMENT AND PROCEDURES USED, WAS WITHIN THE ALLOWABLE (0.07 FEET PLUS 50 PARTS PER MILLION) FOR AN URBAN SURVEY, PER 865 IAC 1-12-7.

TO: BRADLEY COMPANY, LLC  
OSNI DYER AND ASSOCIATES, LLC;  
THE GATE CHURCH, INC.;  
FIDELITY NATIONAL TITLE INSURANCE COMPANY

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 7, 8, 9, 11(a) AND 13 OF TABLE A THEREOF. THE FIELD WORK WAS COMPLETED ON JUNE 29, 2023. I FURTHER STATE THAT SURVEY WAS PERFORMED IN ACCORDANCE WITH THE GUIDELINES SET IN TITLE 865 IAC 1-12 (RULE 12).

DATE OF PLAT: JULY 12, 2023

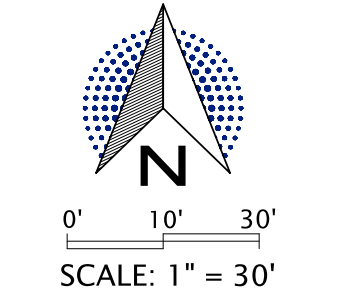
PROFESSIONAL LAND SURVEYOR: GLEN E. BOREN  
INDIANA REGISTRATION NUMBER: LS20000006  
gboren@dvgteam.com



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

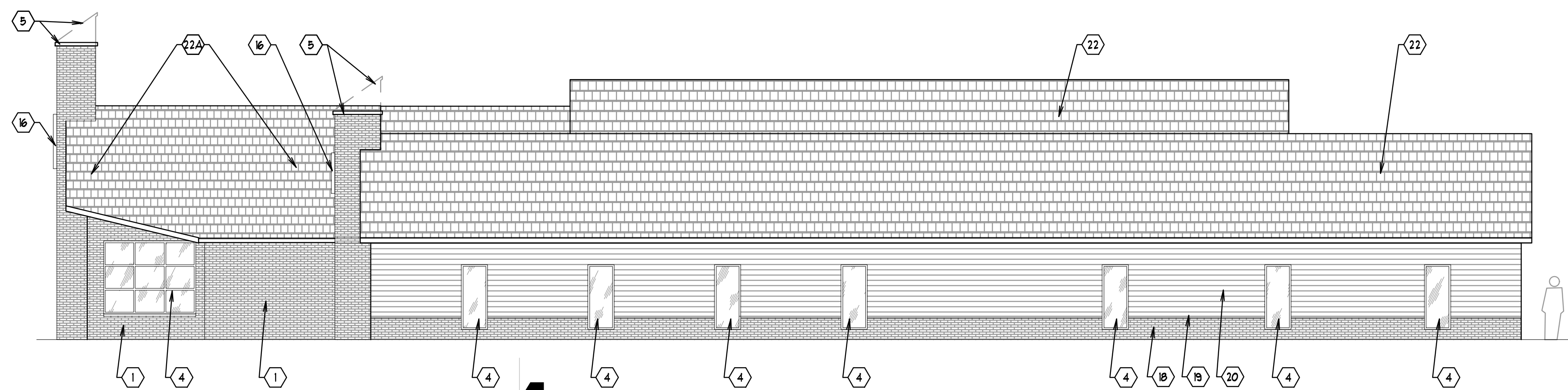
DATE:	
REVISIONS AND NOTES:	

**ALTA/NSPS LAND TITLE SURVEY**  
9900 COLUMBIA AVENUE  
MUNSTER, INDIANA 46321  
LOT 1, EXCEPT THE WEST 125 FEET THEREOF, CALVARY COMMUNITY CHURCH ADDITION



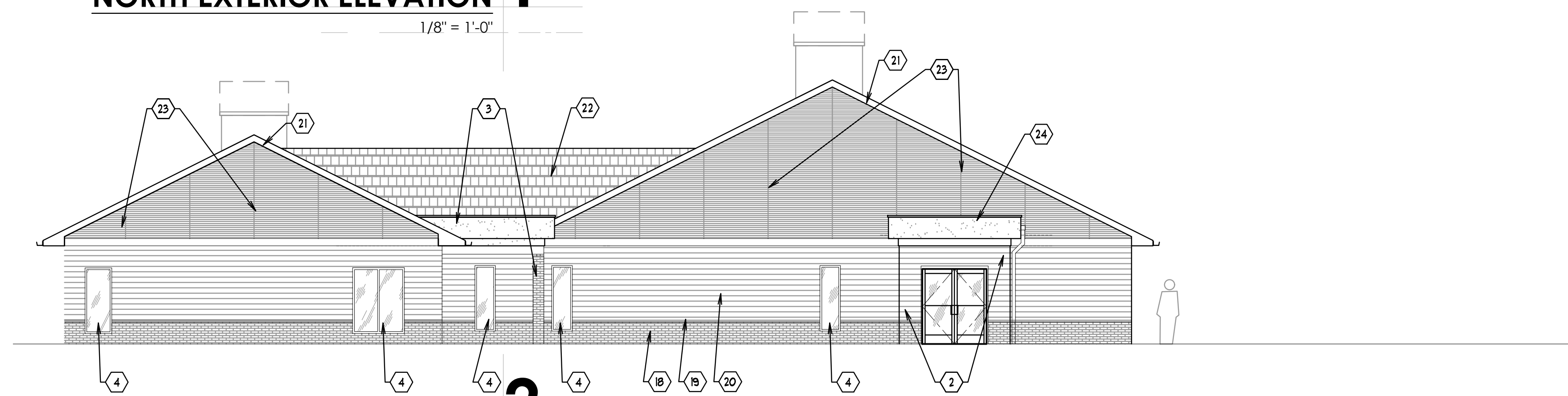
**GATE CHURCH**  
© COPYRIGHT DVG TEAM, INC.  
FB/PG FILE NO.  
DRAWN BY: M.S. DATE: 7/12/23  
SECTION: 36-36-10 COUNTY, STATE: LAKE, IN  
JOB NO. 23-0720

LIGHT POLE	UTILITY POLE	SUBJECT PARCEL BOUNDARY LINE	TREE WITH APPROXIMATE DIAMETER	FF - FINISHED FLOOR ELEVATION	IRS DVG 5/8" REBAR SET WITH BLUE CAP STAMPED "DVG TEAM INC. FIRM NO. 0120"
BASKETBALL POLE	MAILBOX	PLATTED BUILDING SETBACK LINE	SPOT ELEVATION	AG - ABOVE GRADE	
TELEPHONE PEDESTAL	BLOCK COLUMN AREA LIGHT	PARCEL BOUNDARY LINE	1-FOOT CONTOUR	B.G. - BELOW GRADE	IRS S0507 5/8" REBAR FOUND WITH CAP STAMPED "S0507"
MANHOLE	AREA LIGHT	EASEMENT LINE	ELECTRIC METER	HDPE - HIGH DENSITY POLY-ETHYLENE	
CATCH BASIN	WOLVERINE PIPELINE MARKER	UNDERGROUND ELECTRIC	GAS METER	PVC - POLY-VINYL CHLORIDE PIPE	IRS S0514 5/8" REBAR FOUND WITH CAP STAMPED "S0514"
CURB INLET	NUMBER OF REGULAR PARKING SPACES	UNDERGROUND GAS	ASPHALT AREA	RCP - REINFORCED CONCRETE PIPE	
ELECTRIC TRANSFORMER	GAS VALVE	UNDERGROUND WATER	CONCRETE AREA	VCP - VITRIFIED CLAY PIPE	IRS S0514 5/8" REBAR FOUND WITH CAP STAMPED "S0514"
A/C UNIT	INVERT	UNDERGROUND TELECOMMUNICATIONS		INV - NOT ACCESSIBLE	
SIGN	INVERT	STORM SEWER		R/W - RIGHT OF WAY	IRS S0514 5/8" REBAR FOUND WITH CAP STAMPED "S0514"
CABLE TUB	R/W - RIGHT OF WAY	SANITARY SEWER		P.B. - PLAT BOOK	
FIRE HYDRANT	PG. - PAGE	SANITARY SEWER WITH FLOW DIRECTION		C - DIMENSION CALCULATED	IRS S0514 5/8" REBAR FOUND WITH CAP STAMPED "S0514"
WATER VALVE	M - DIMENSION MEASURED BETWEEN MONUMENTS	OVERHEAD UTILITY WIRES		D - DIMENSION PER DEED DESCRIPTION	
WATER MANHOLE	M - DIMENSION MEASURED BETWEEN MONUMENTS	APPROXIMATE TREE LINE			IRS S0514 5/8" REBAR FOUND WITH CAP STAMPED "S0514"
SITE BENCHMARK					



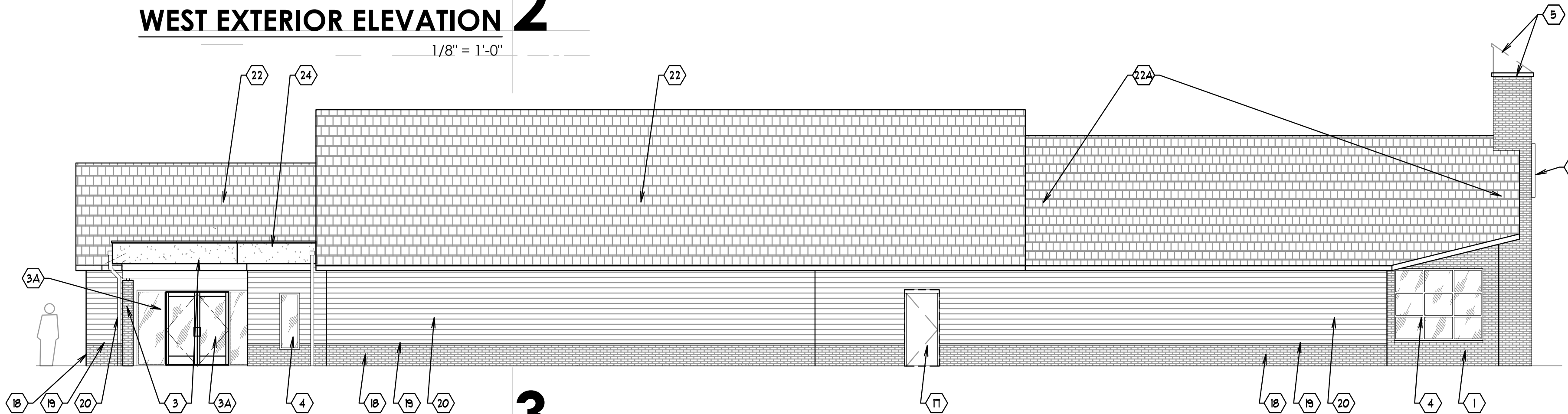
**NORTH EXTERIOR ELEVATION 1**

1/8" = 1'-0"



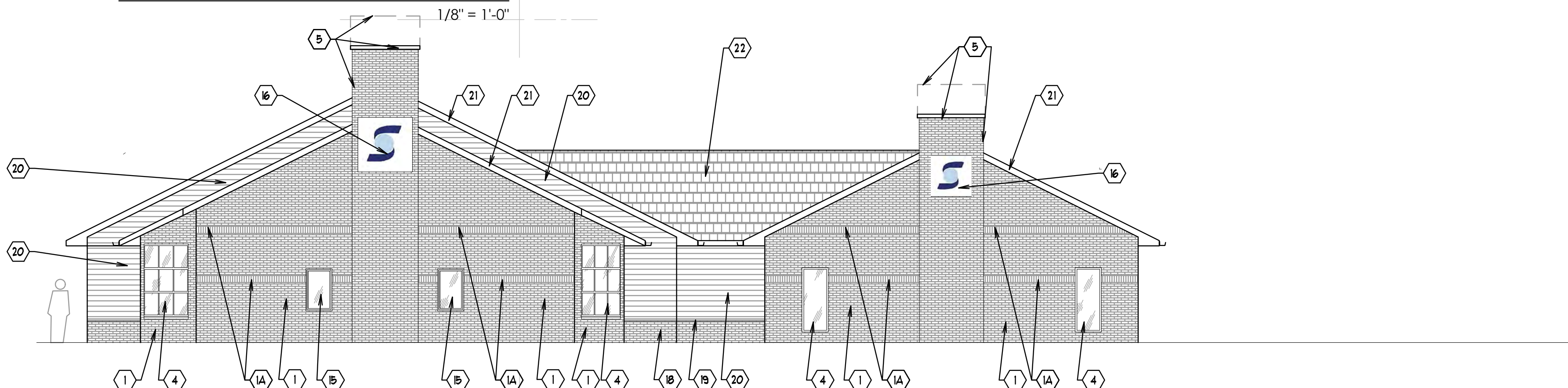
**WEST EXTERIOR ELEVATION 2**

1/8" = 1'-0"



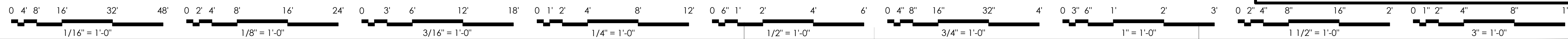
**SOUTH EXTERIOR ELEVATION 3**

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

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Sheet Name: **PROPOSED EXTERIOR ELEVATIONS**  
Sheet Number: **A3.0**  
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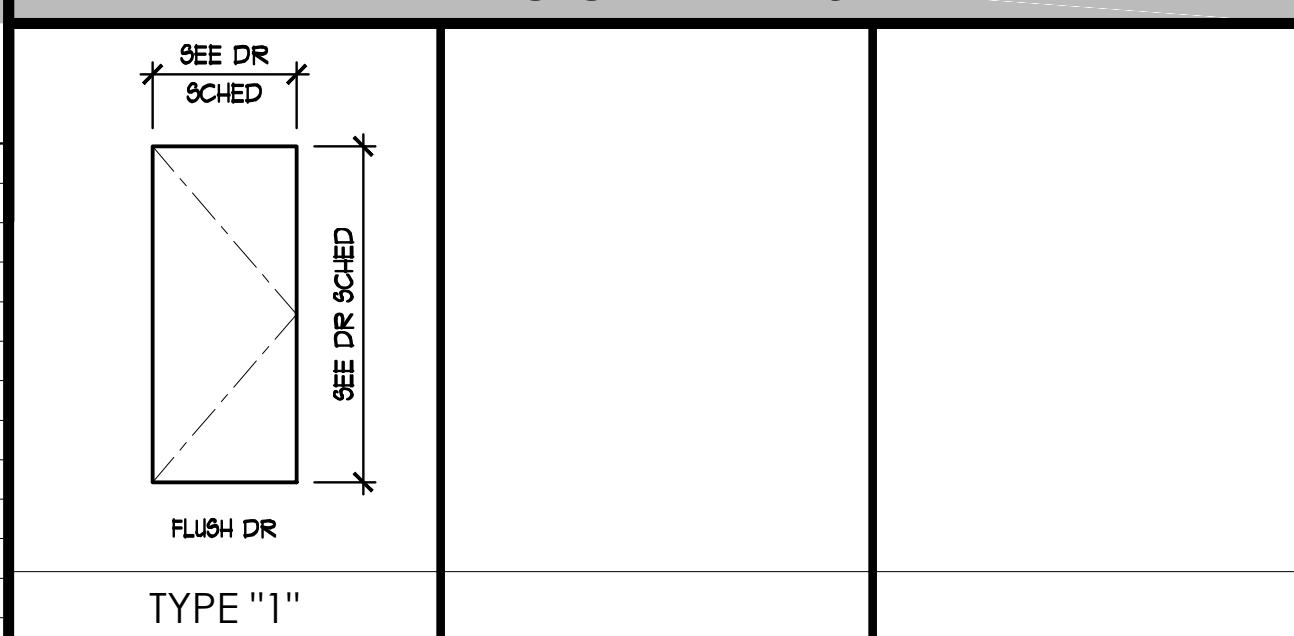
# HARDWARE SCHEDULE

# DOOR TYPES

# DOOR SCHEDULE

# GENERAL NOTES

HARDWARE SCHEDULE NO.	LOCATION	ITEM	QUANTITY / DESCRIPTION	HARDWARE SCHEDULE NO.	LOCATION	ITEM	QUANTITY / DESCRIPTION
1	TOILET ROOFT DOOR	HINGES	2 PAIR-4.5 X 4.5	2	SINGLE EXIT ROOFT DOOR	HINGES	2 PAIR-4.5 X 4.5
		LOCKET (PRIVACY)	1 -			LOCKET (PASSAGE)	1 -
		WALL STOP	1 -			WALL STOP	1 -
3	MECHANICAL ROOFT DOOR	HINGES	2 PAIR-4.5 X 4.5	4	CORRIDOR (PASSAGE) DOOR	HINGES	2 PAIR-4.5 X 4.5
		LOCKET (STOREROOM)	1 -			LOCKET (ENTRANCE)	1 -
		WALL STOP	1 -			WALL STOP	1 -
5	EXTERIOR EXIT DOOR	HINGES	1.5 PAIR-4.5 X 4.5 NON REMOVABLE PIN	6	OFFICE / CASTING ROOFT DOOR	HINGES	2 PAIR-4.5 X 4.5
		PANIC DEVICE	1 -			LOCKET (OFFICE)	1 -
		CYLINDER	1 -			WALL STOP	1 -
		CLOSER	1 - CLOSER HEAVY DUTY				
		WEATHERSTRIPPING	1 -				
		KICK PLATE	1 - 1 X 34				
		THRESHOLD	1 - ADA ACCESSIBLE				
WEATHERSTRIPPING	1 -						
7	CLOSET DOOR	BIFOLD DOOR HARDWARE INCLUDING - HINGES, GLIDES, FULLS, LOCK		8	LAUNDRY / JANITOR CLOSET DOOR	HINGES	2 PAIR-4.5 X 4.5
						LOCKET (STOREROOM)	1 -
						WALL STOP	1 -

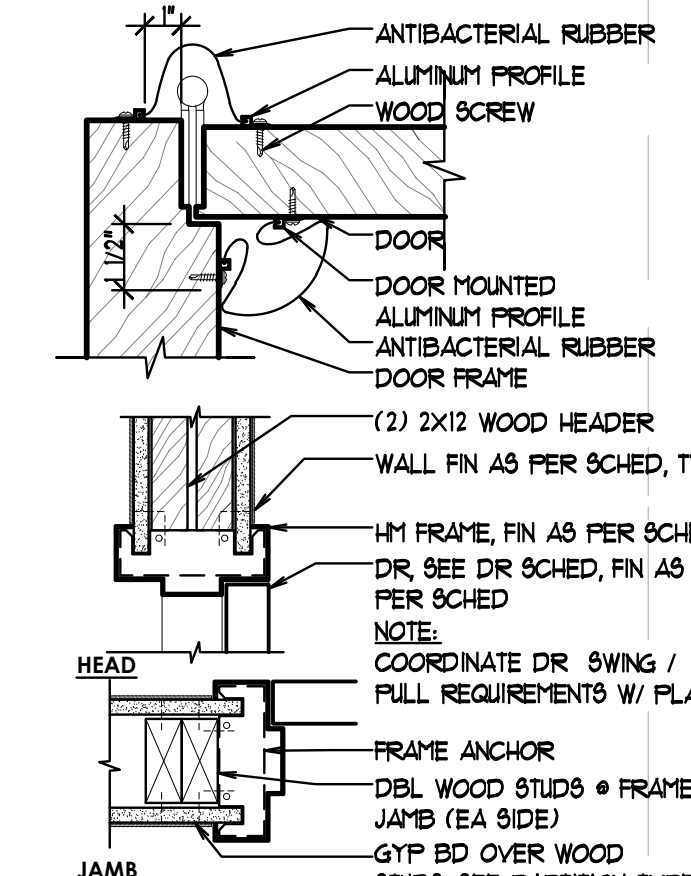


DOOR NUMBER	HARDWARE GROUP	FUNCTION GROUP	EXISTING	NEW	DR TYPE	DIMENSION			DOOR MATERIAL	DOOR FINISH	EXISTING	NEW	FRAME			ASSEMBLY RATING	REMARKS
						WIDTH	HEIGHT	THICK					HEAD	JAMB	FRAME FINISH		
100X	EX																
100AX	EX																
101	4				1	4'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
103	2				1	3'-4"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
105	2				1	3'-4"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
106	3				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
107	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
108	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
109	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
110	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
111	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
112	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
113	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
114	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
115	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
116	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
117	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
118	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
119	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
120	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
121	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
122	4				1	4'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
124	5				1	3'-0"	7'-0"	1 1/2"	HM	PT			HM	-	-	PF	-
125	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
126	1				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
127	3				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
129	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
130	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
131	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
132	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
133	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
134	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
135	1				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
136	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
140X	EX												EX	EX	EX	EX	-
141X	EX												EX	EX	EX	EX	-
142	1				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
143	3				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
144	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
145	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
146X	EX												EX	EX	EX	EX	-
147	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
147A	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
148	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
149	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
150	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
151	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
152	6				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
153	2				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
154	3				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
155	8				1	3'-0"	7'-0"	1 1/2"	SCW	STAN			HM	-	-	PF	-
157X	EX												EX	EX	EX	EX	-

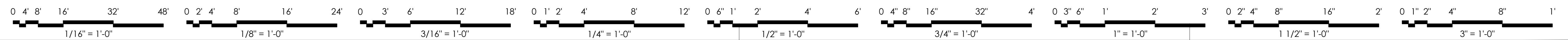
- A. ALL NEW DOOR HARDWARE TO MEET ADA ACCESSIBILITY GUIDELINES
- B. GC TO VERIFY ALL DOOR QUANTITIES AND VERIFY DIMENSIONS IN FIELD PRIOR TO PURCHASING UNITS
- C. CONTRACTOR TO SUBMIT CATALOG CUT SHEETS FOR ALL DOORS AND HARDWARE PRIOR TO INSTALLATION
- D. ALL EXIT HOLLOW METAL DOORS TO BE INSULATED 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 1003.3.1.8
- 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. TRUMB-TURN DEVICES ARE NOT PERMITTED
- H. ALL RATED DOORS TO HAVE RATED HARDWARE
- I. PAINT ALL HOLLOW METAL DOORS AND FRAMES TO MATCH ADJACENT WALLS 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 14 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 4.27.3.
- 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

- 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
- 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
- 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
- DR OPENING FORCE SHALL BE IN ACCORDANCE W/ THE FOLLOWING:
  - INTERIOR HINGED DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 5.0LBF
  - SLIDING OR FOLDING DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 5.0LBF
  - EXTERIOR HINGED DRS SHALL HAVE A MAXIMUM OPENING FORCE OF 8.5LBF
- 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)
- ALL EXIT DEVICES SHALL BE OF TOUCH BAR DESIGN WITH SMOOTH OPERATION AND BE OPERATIVE OVER 2/3 OF THE DRS CLR OPENING WIDTH
- 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, ULBC-1-2-1991 CODES
- ALL SPRINGS SHALL BE OF STAINLESS STEEL THROUGHOUT
- ALL EXIT DEVICES SHALL BE OF CHASSIS MOUNTED UNIT CONSTRUCTION
- ALL EXIT DEVICES SHALL BE ANSI A563.3, GRADE 1



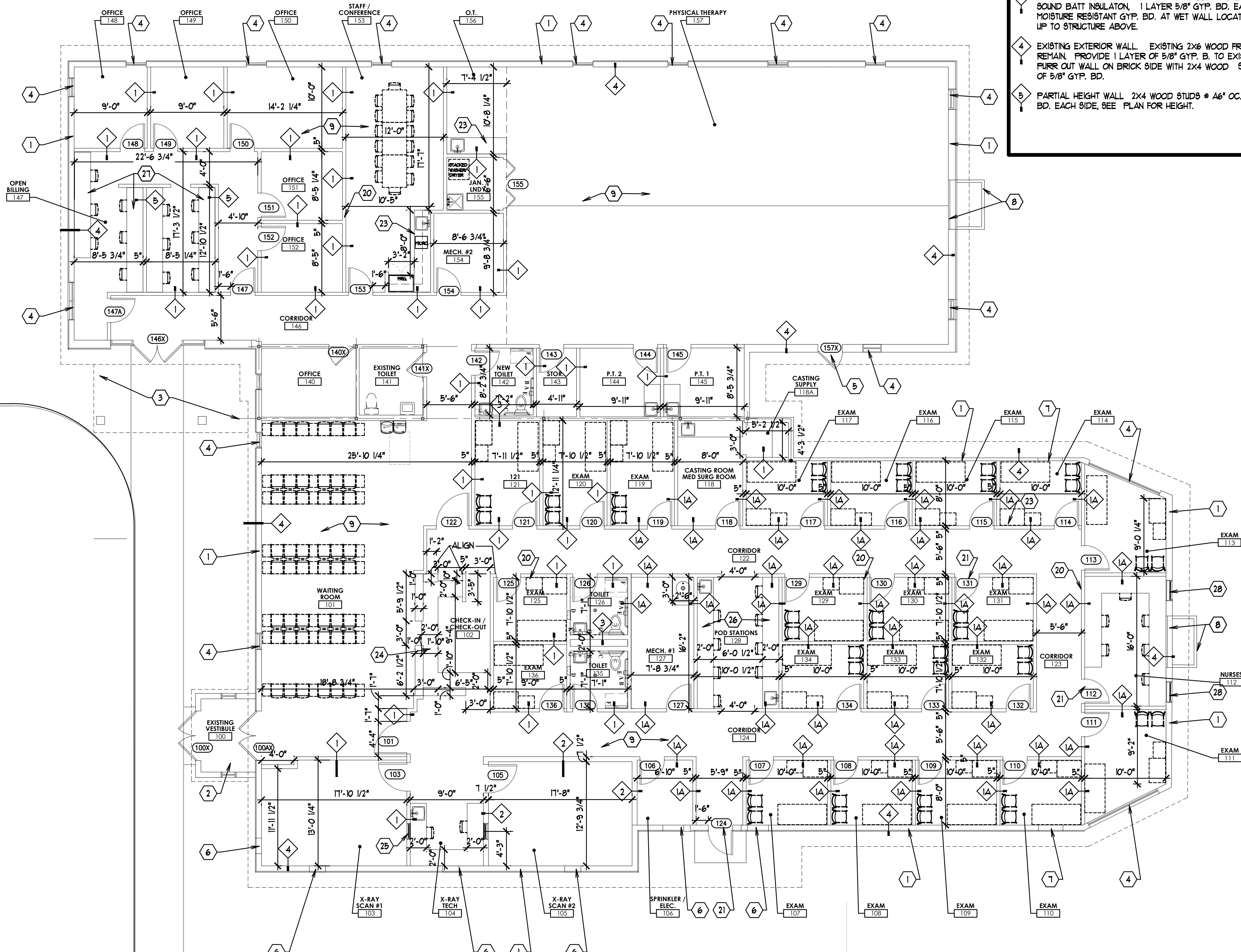
HM FRAME HEAD/JAMB DETAIL  
3" = 1'-0"



OSNI BUILDING RENOVATION AND SITE WORK  
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Revisions	
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.

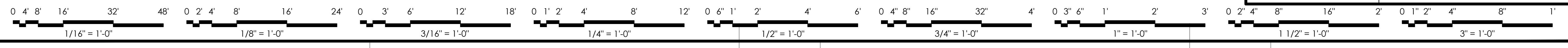
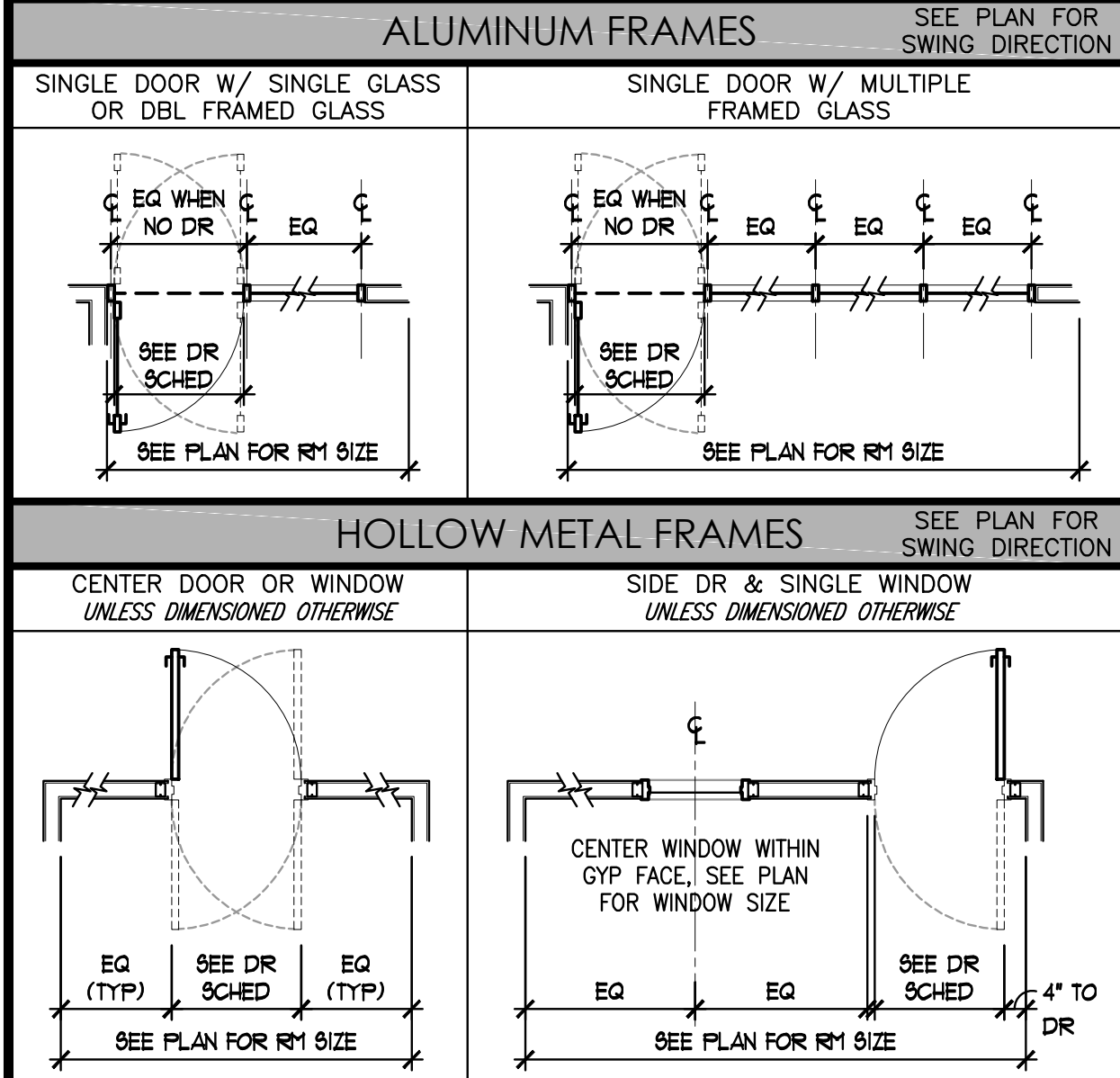
**GENERAL NOTES**

- 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, UNO. 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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STATE OF INDIANA  
 ZENON KURDZIEL  
 REGISTERED ARCHITECT  
 EXPIRATION DATE: 12/31/2025

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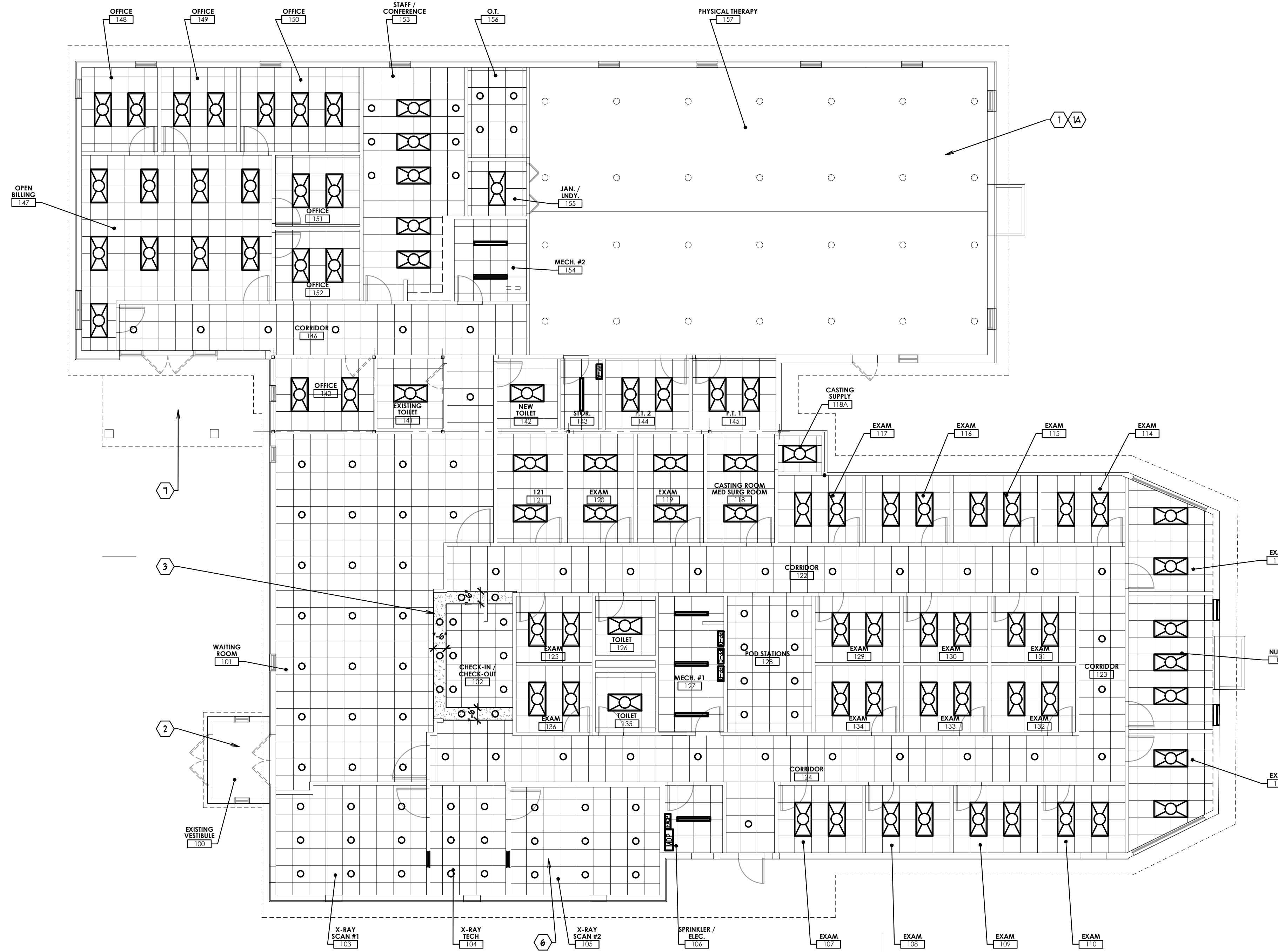
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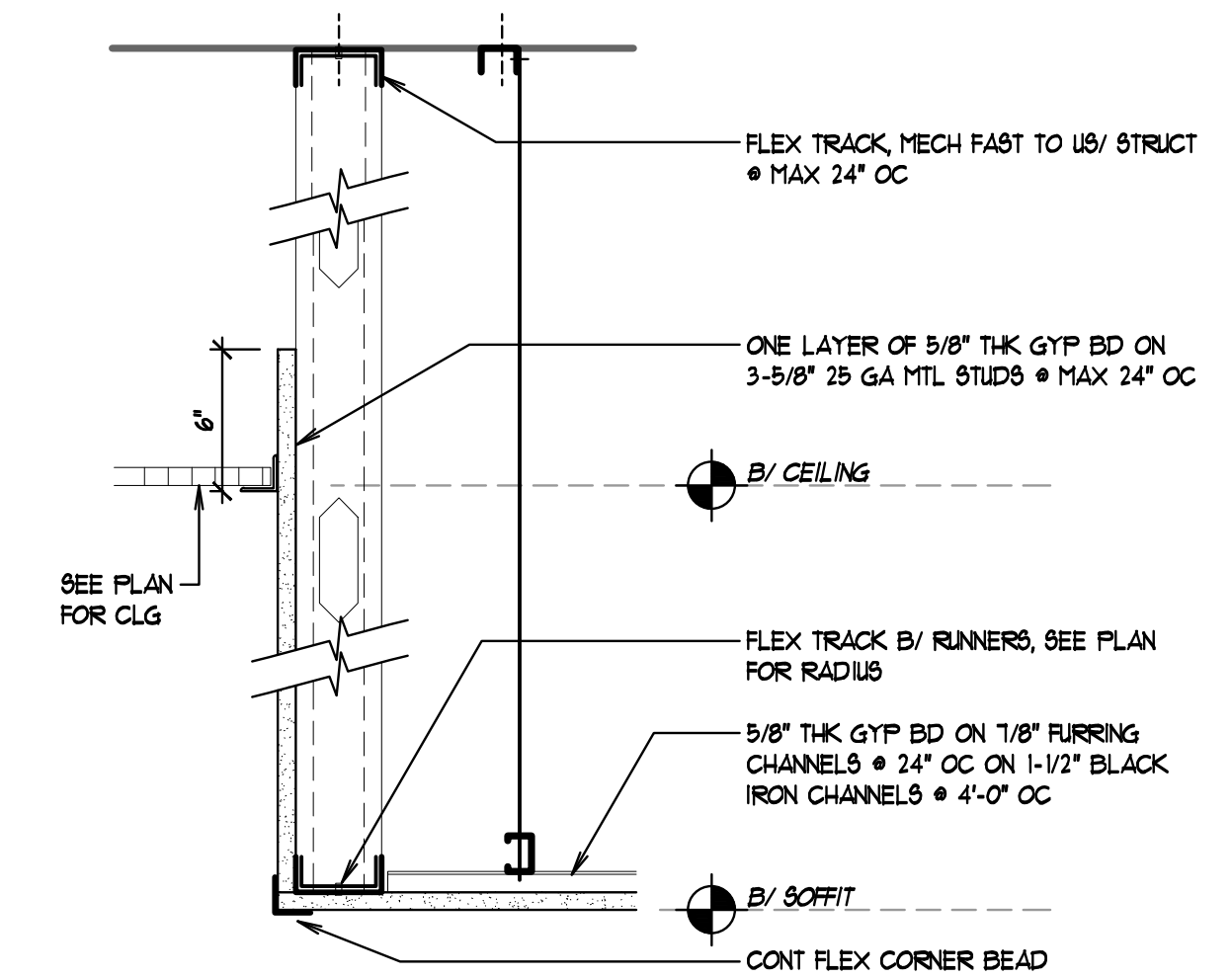
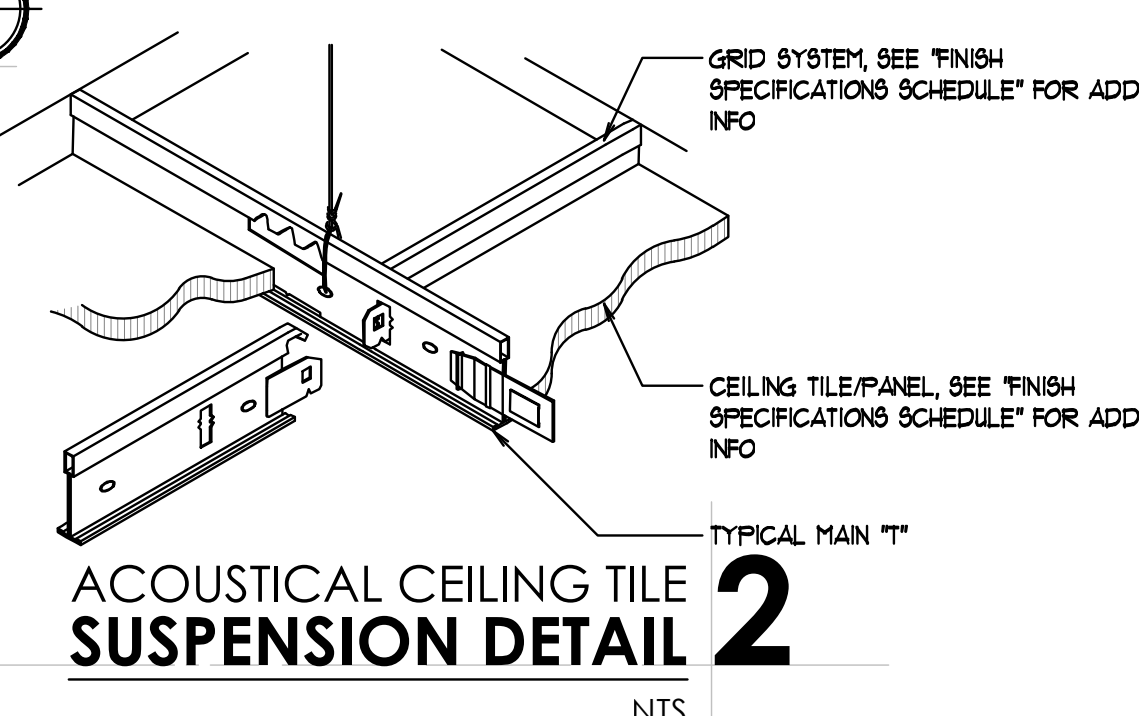
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 Sheet Number: **A1.0**  
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**PROPOSED REFLECTED CEILING PLAN**

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

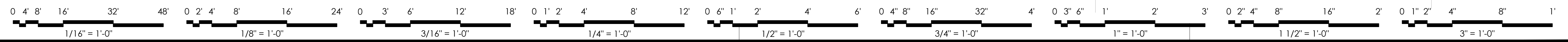


**SOFFIT SECTION 1**

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 #17 PHYSICAL THERAPY SPACE, EXISTING SLOPED DRYWALL CEILING TO REMAIN. EXISTING RECESSED LIGHT FIXTURES TO REMAIN.
  - IN #17 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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 REGISTERED PROFESSIONAL ENGINEER  
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 LICENSE NO. 19800045  
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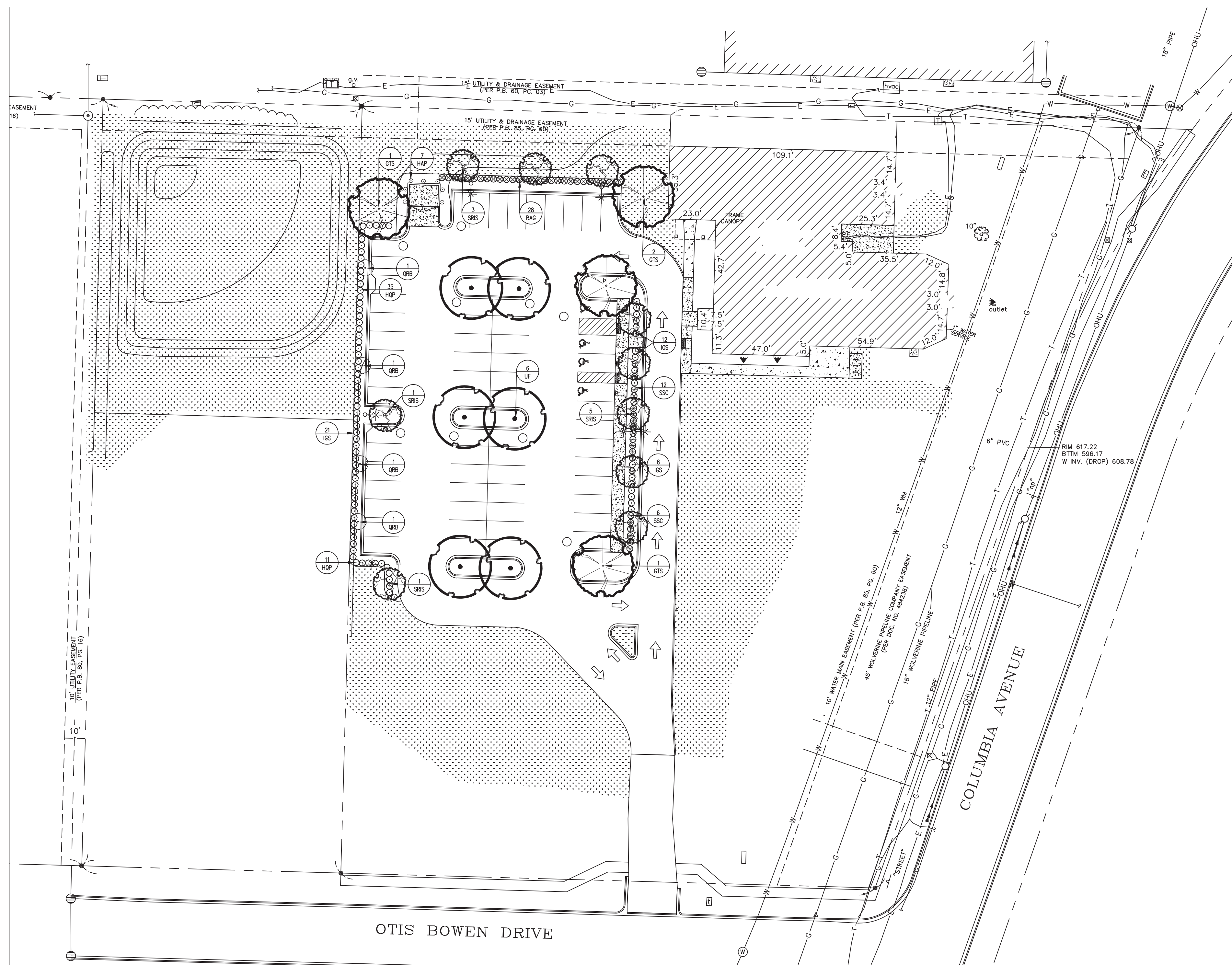
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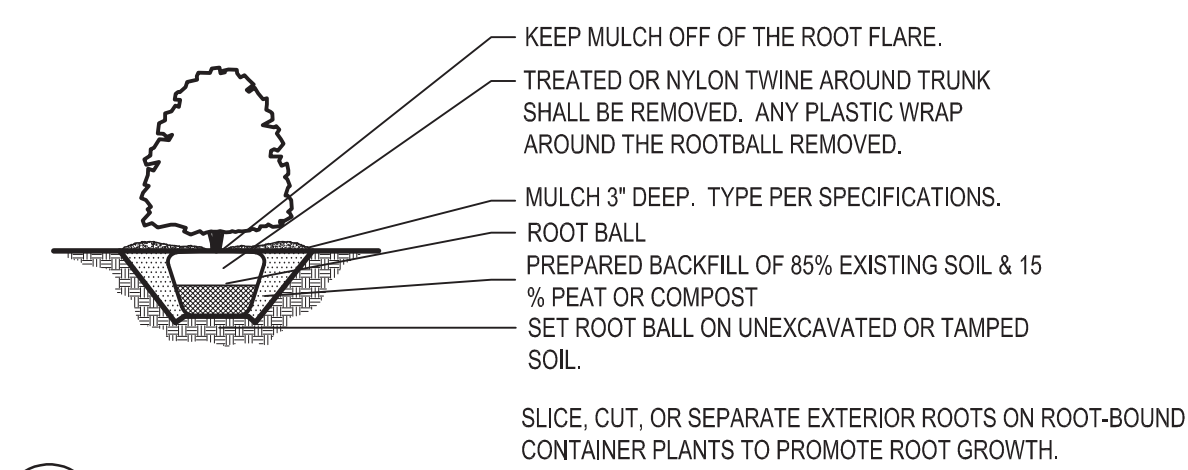
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Sheet Number: **A2.0**

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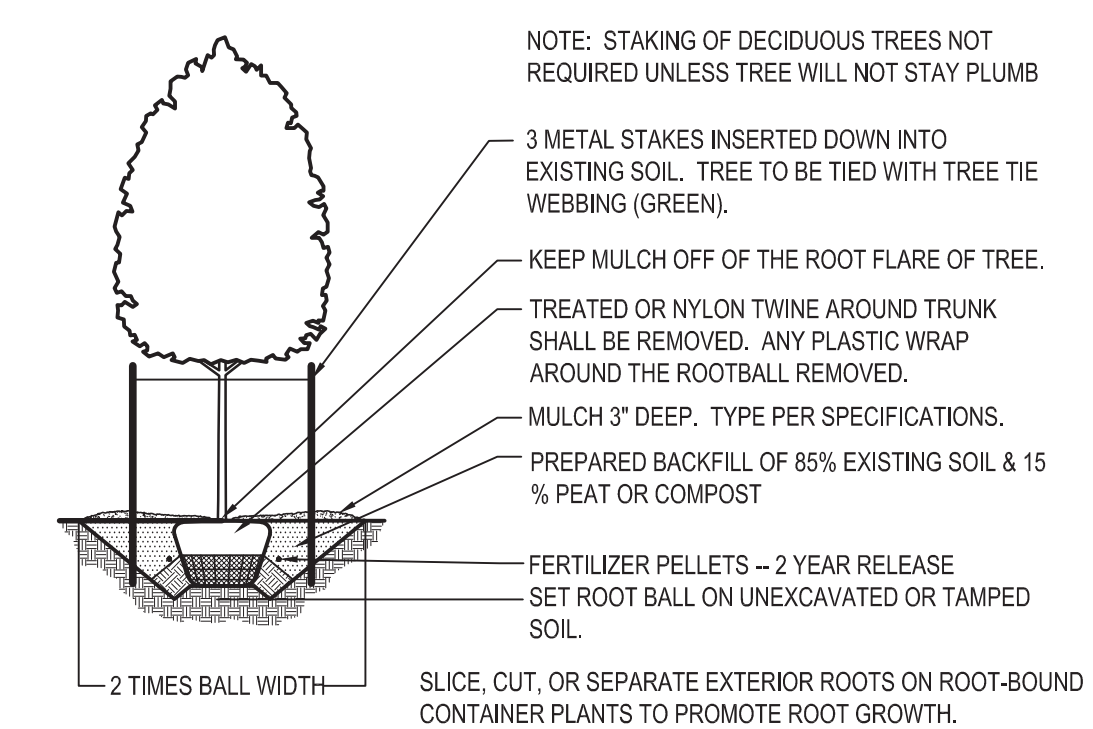


LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DIGGING. SHRUB PIT WIDTH TO BE TWO TIMES THE WIDTH OF THE ROOT BALL. PRUNE OFF ALL DEAD, BROKEN OR SCARRED BRANCHES, AND SHAPE PRUNE AS DIRECTED BY THE LANDSCAPE ARCHITECT. LOCATE ROOT FLARE IN ROOT BALL AND SET SHRUB HEIGHT SO THAT ROOT FLARE IS FLUSH OR SLIGHTLY 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.



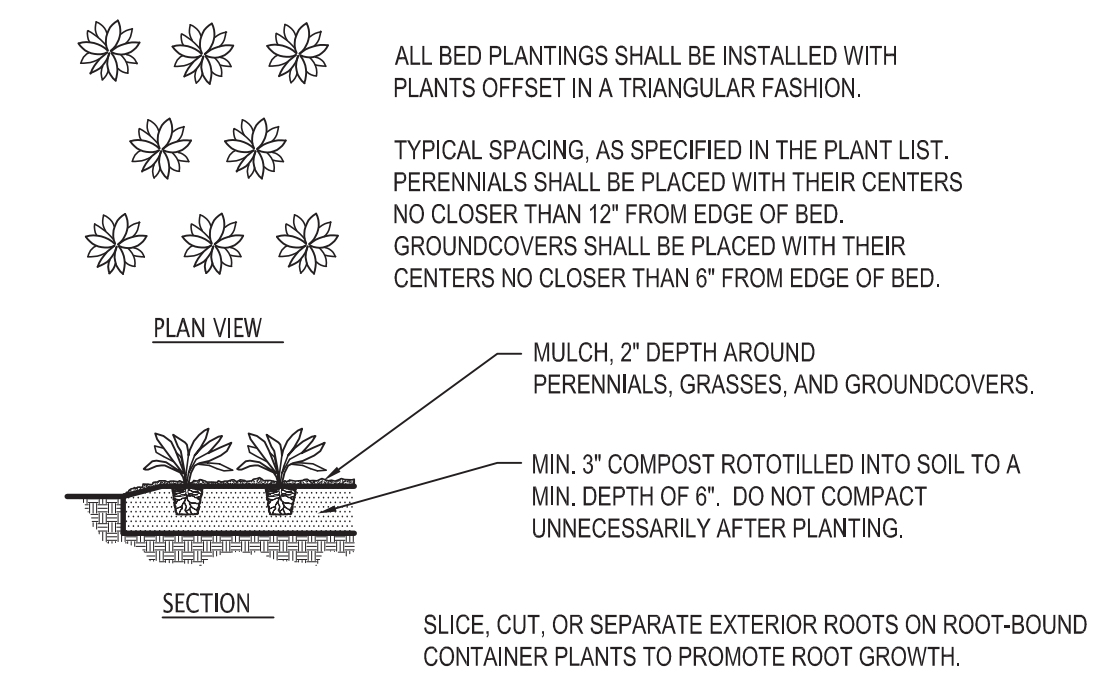
1 SHRUB PLANTING DETAIL  
NOT TO SCALE

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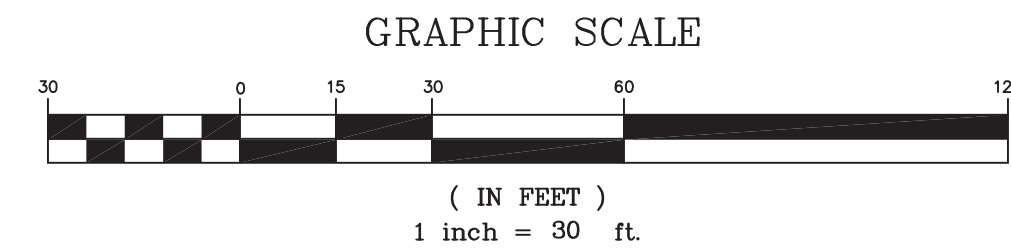
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Date: 10/11/23	
Scale: 1:30	

Symbol	Botanical Name	Common Name	Size
<b>Trees</b>			
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"
<b>Shrubs</b>			
HQP	Hydrangea quercifolia 'PeeWee'	PeeWee Hydrangea	#3
IGS	Illex glabra 'Strongbox'	Strongbox Inkberry	#3
RAG	Ribes alpinum 'Green Mound'	Green Mound Alpine Currant	#3
<b>Vine</b>			
HAP	Hydrangea anomala ssp. petiolaris	Climbing Hydrangea	#3
<b>Perennials</b>			
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*



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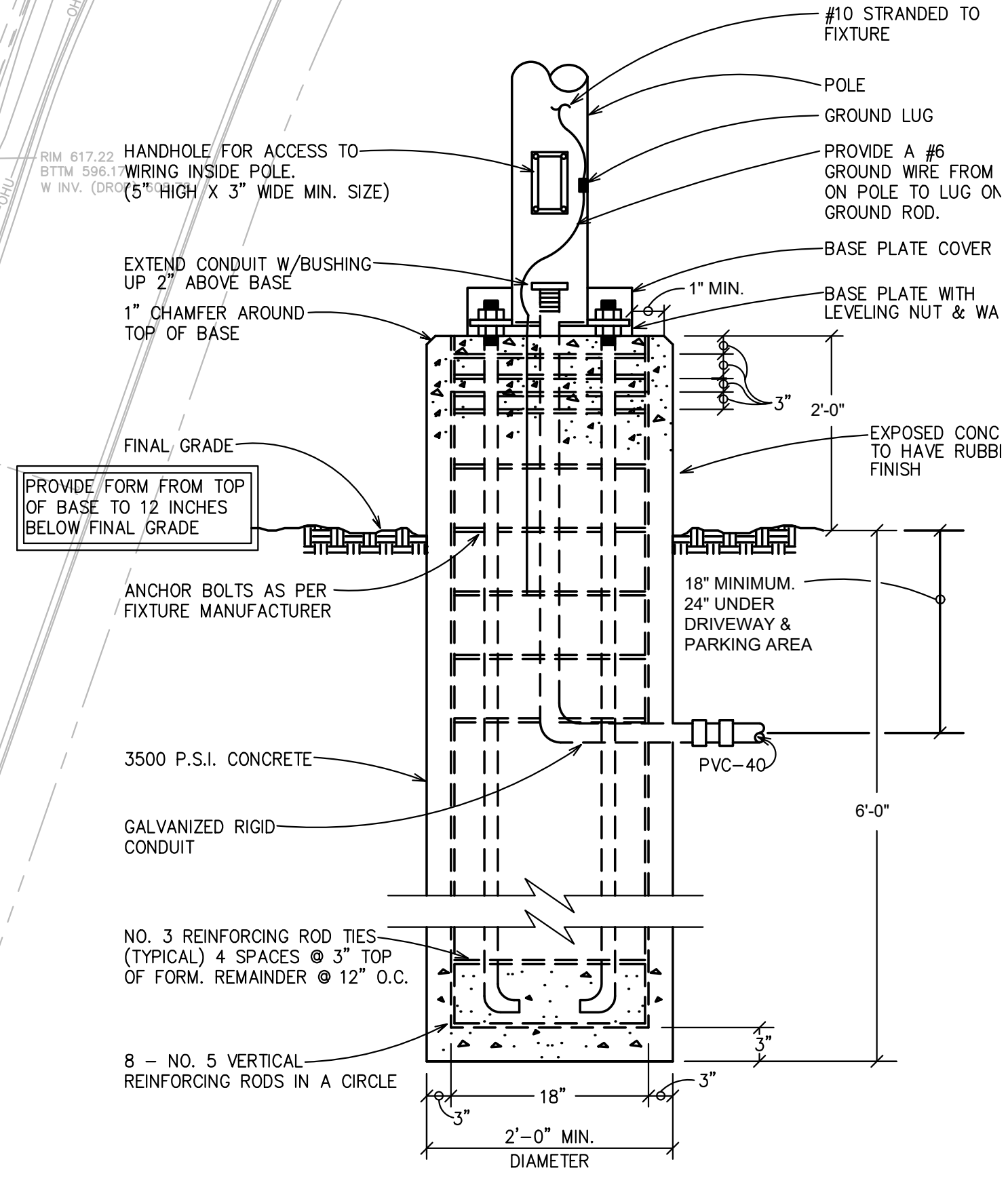
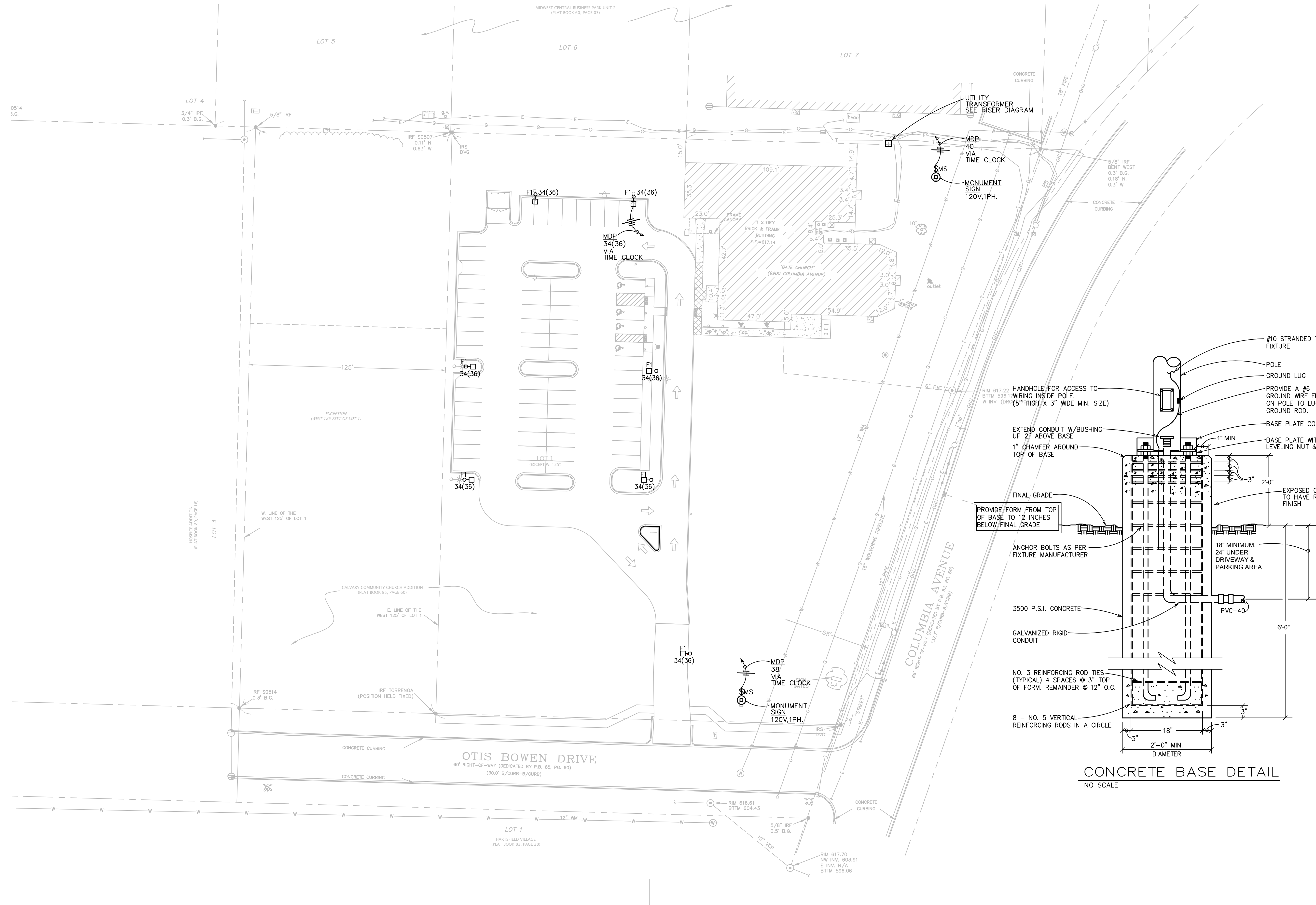
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 Project Number 24038

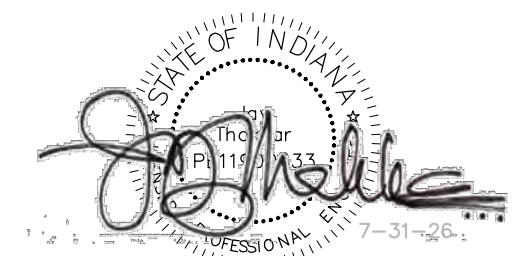
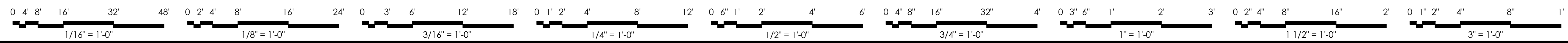
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Sheet Name  
**SITE LIGHTING SITE PLAN**  
 Sheet Number  
**ES101**  
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**CONCRETE BASE DETAIL**  
 NO SCALE

**LIGHTING SITE PLAN**  
 1" = 30'-0"  
 NORTH



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

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 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

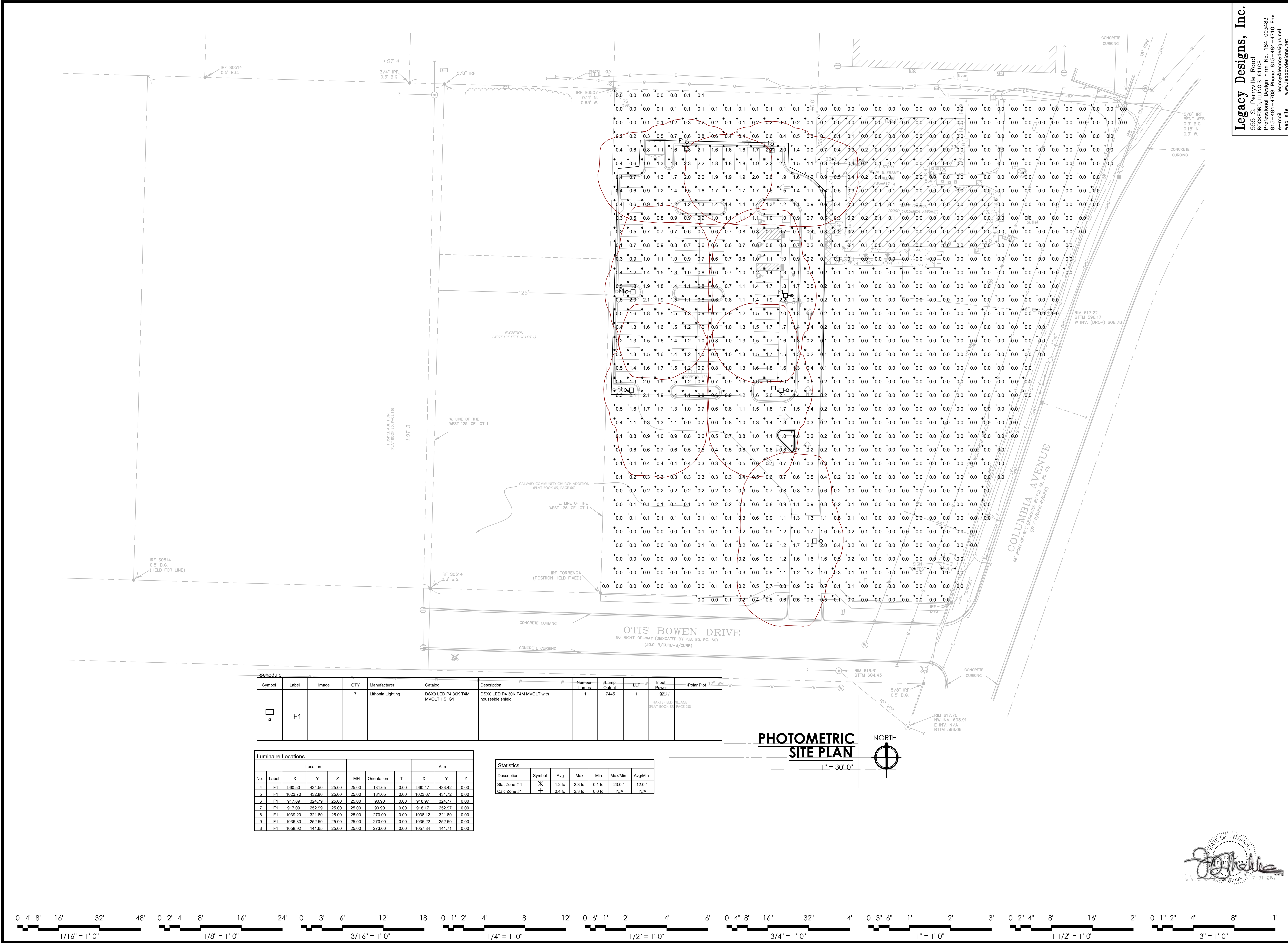
**OSNI**  
 BUILDING RENOVATION AND SITE WORK  
 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

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

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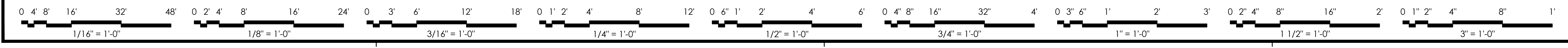
Sheet Name: PHOTOMETRIC SITE PLAN  
 Sheet Number: **ES102**  
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Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot 12"
	F1		7	Lithonia Lighting	DSXO LED P4 30K T4M MVOLT HS G1	DSXO LED P4 30K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

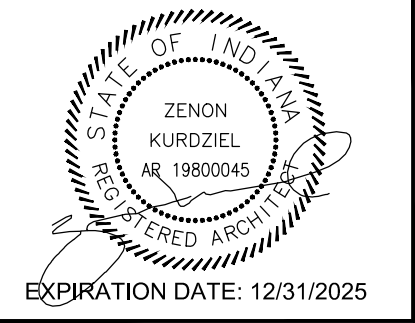
No.	Label	Location				Aim				
		X	Y	Z	MH	Orientation	Tilt	X	Y	Z
4	F1	960.50	434.59	25.00	25.00	181.65	0.00	960.47	433.42	0.00
5	F1	1023.70	432.86	25.00	25.00	181.65	0.00	1023.67	431.72	0.00
6	F1	917.89	334.79	25.00	25.00	90.90	0.00	918.97	334.77	0.00
7	F1	917.09	252.99	25.00	25.00	90.90	0.00	918.17	252.97	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



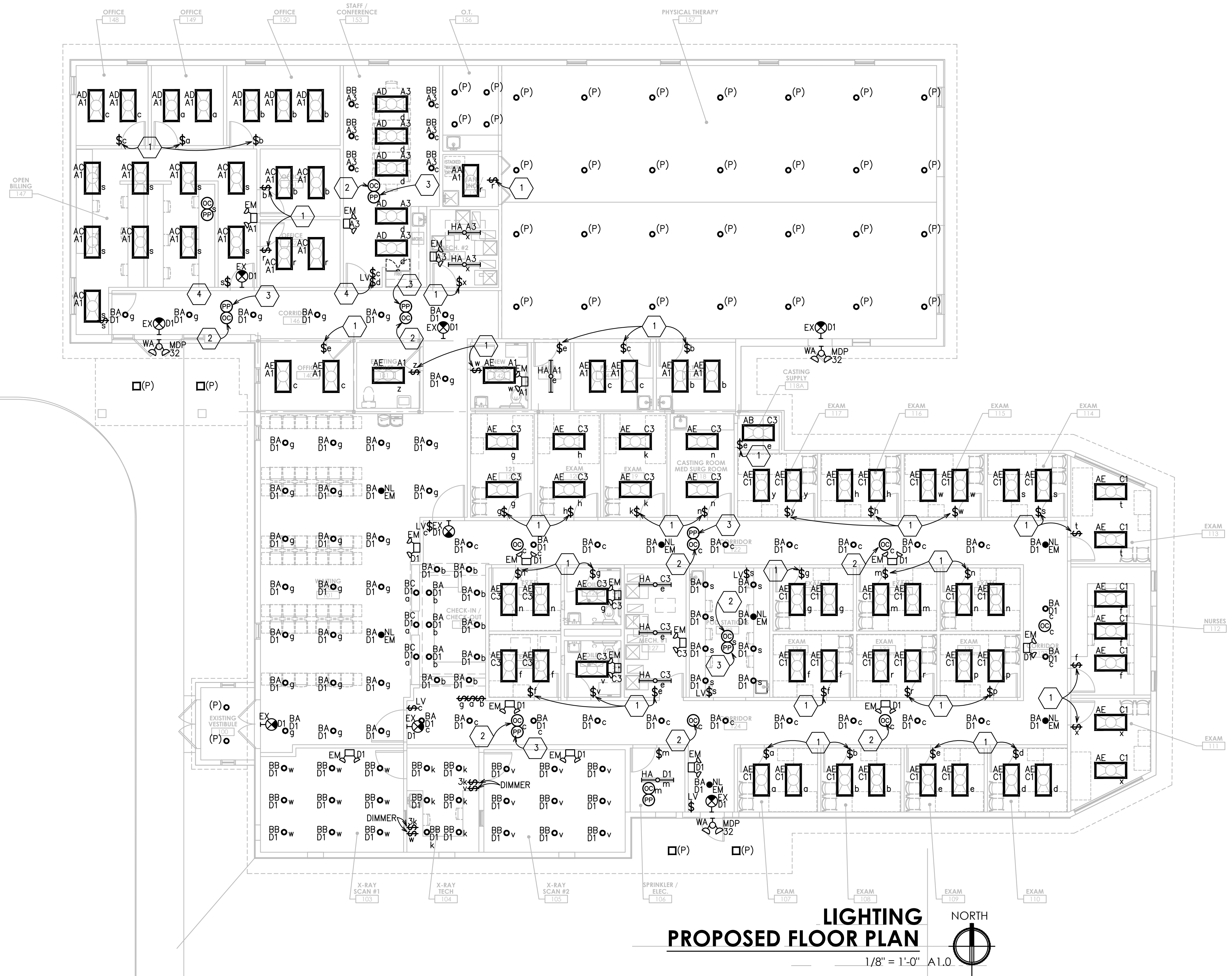
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 555 S. Perryville Road  
 Rockford, IL 61108  
 Phone: 815-484-4708 Fax: 815-484-4710  
 e-mail: legacy@legacymdesigns.net  
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**LIGHTING PROPOSED FLOOR PLAN**  
 NORTH  
 1/8" = 1'-0" A1.0

- 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	

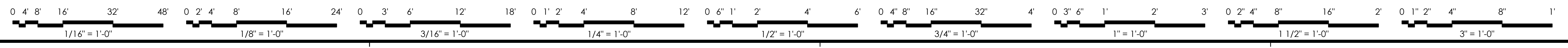
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 Project Number 24038

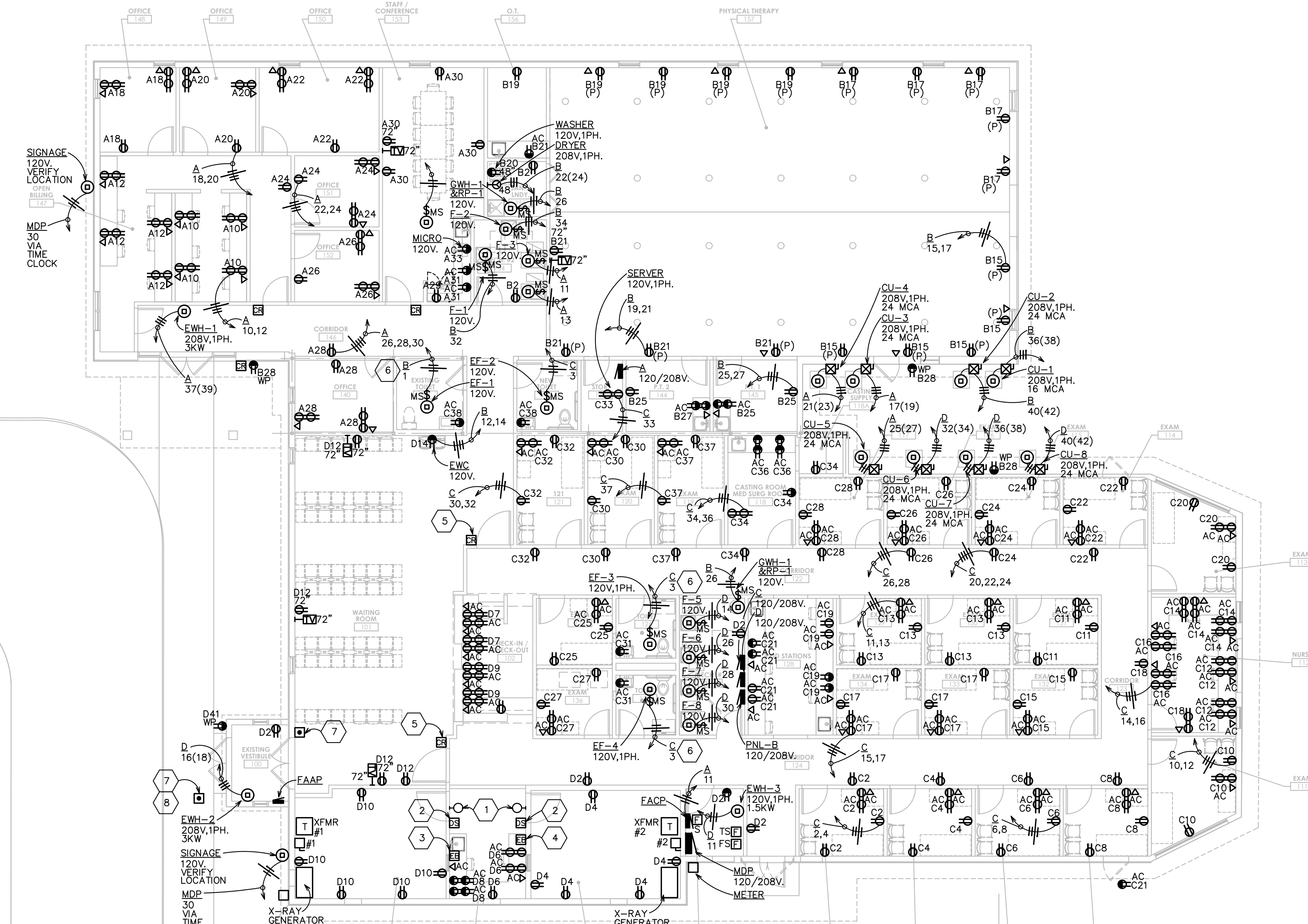


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Sheet Name  
**LIGHTING FLOOR PLAN**

Sheet Number  
**E101**  
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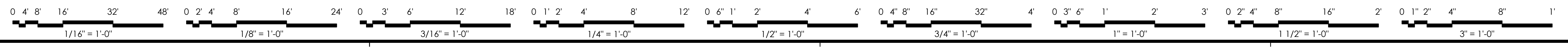
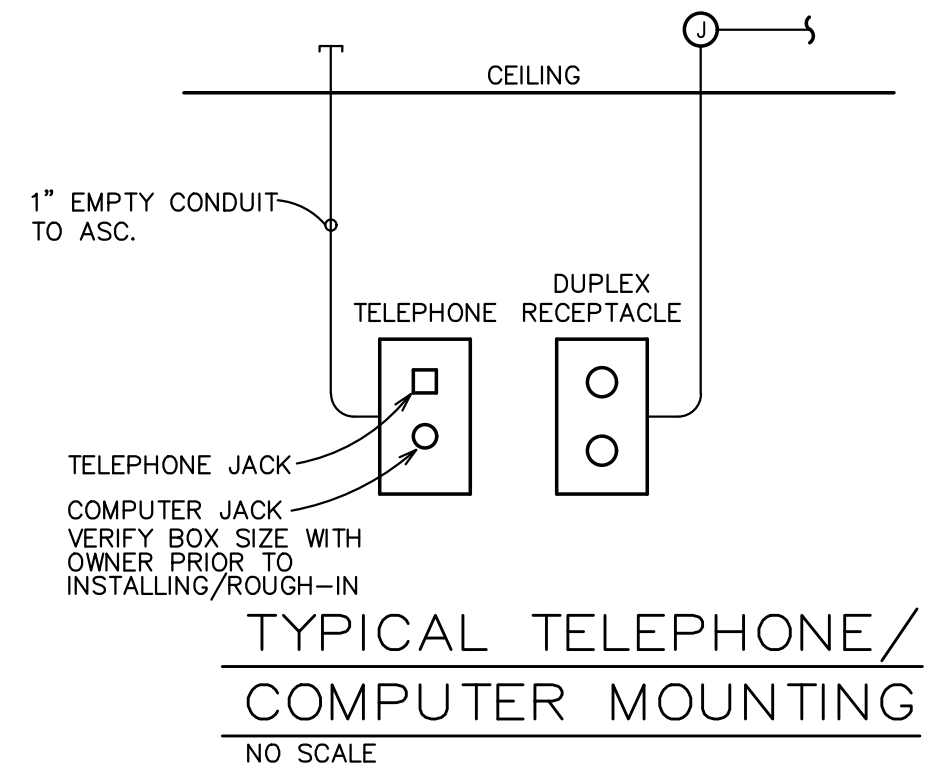




**POWER & SYSTEMS  
 PROPOSED FLOOR PLAN**  
 1/8" = 1'-0" A1.0

**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  
 LICENSE NO. 1980045  
 EXPIRATION DATE: 12/31/2025

Revisions

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

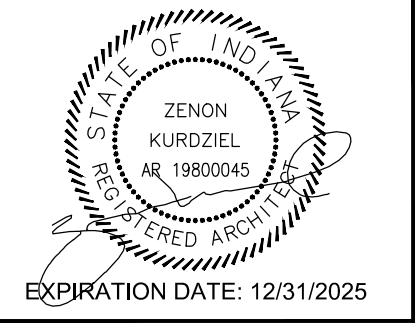
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Sheet Name:  
**ELECTRICAL POWER PLAN**

Sheet Number:  
**E102**  
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**BUILDING RENOVATION AND SITE WORK**  
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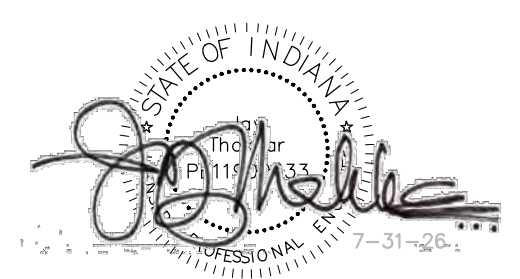
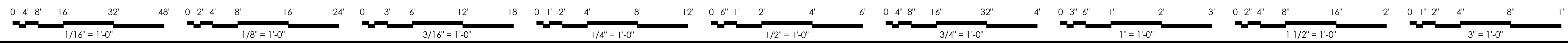
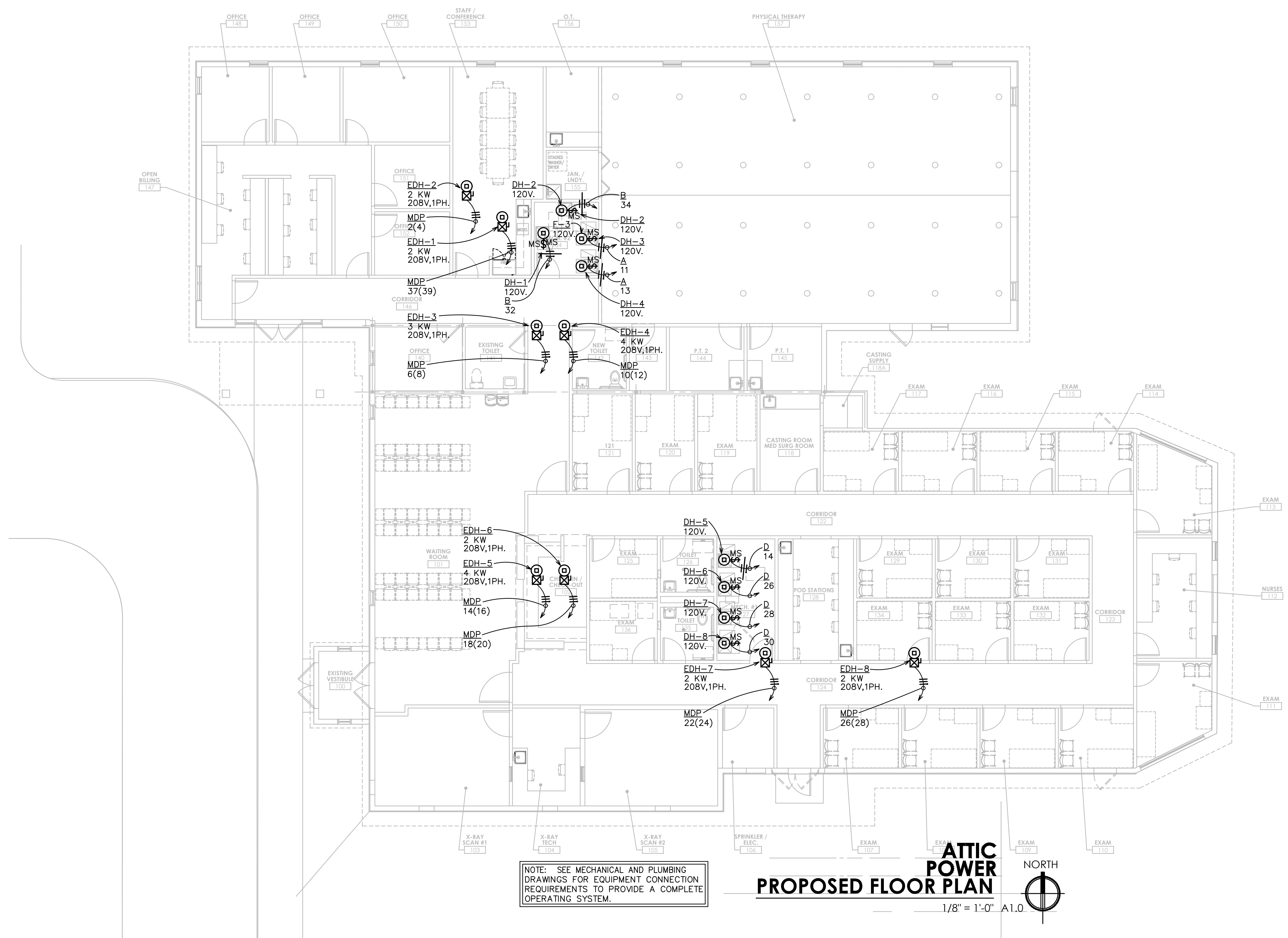
Revisions

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

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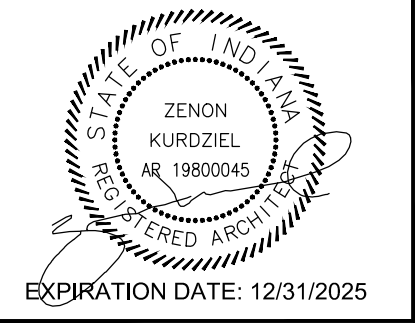
Sheet Name: **POWER - HVAC FLOOR PLAN**

Sheet Number: **E103**  
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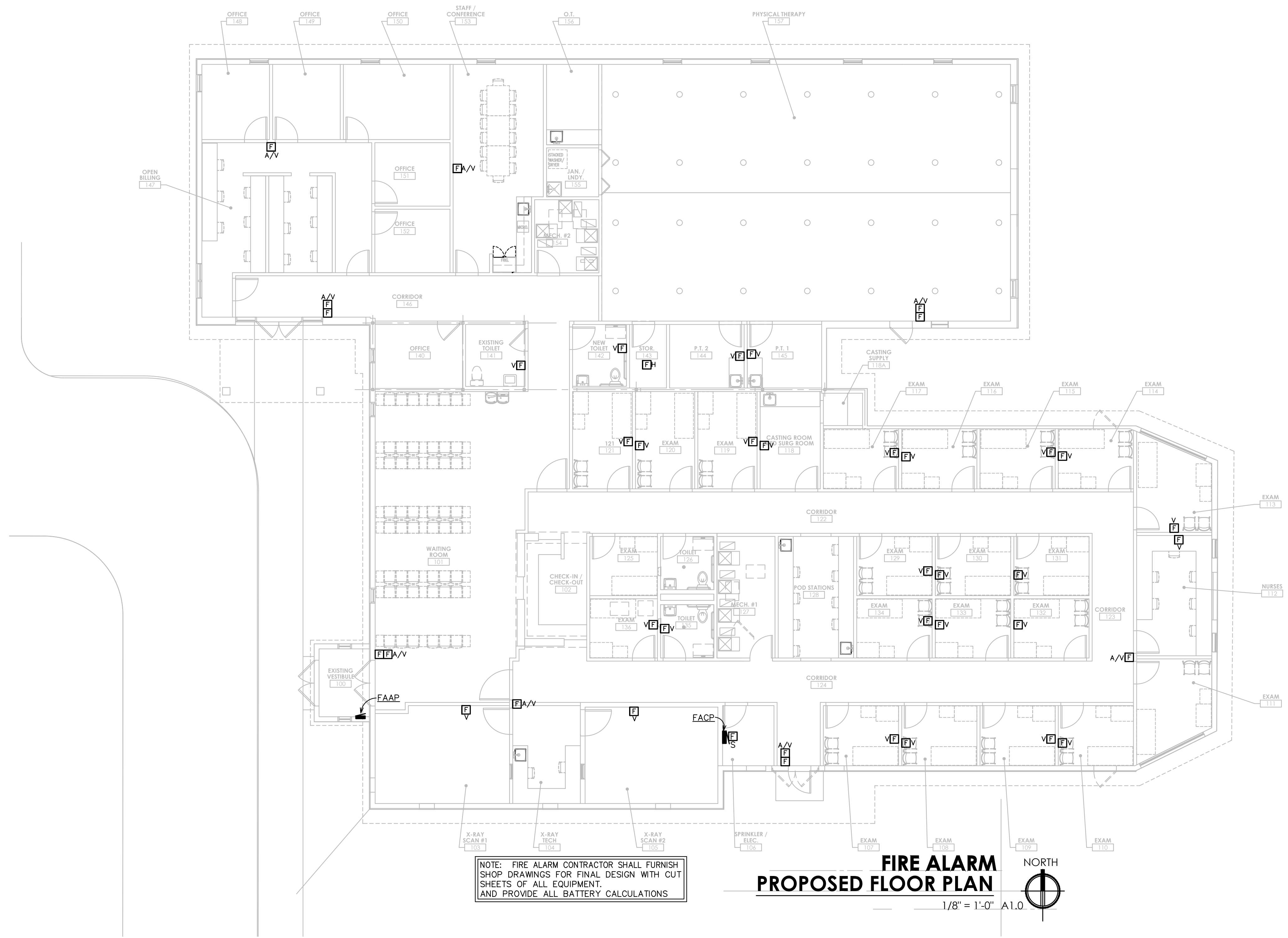
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Drawing Date: 8-5-2024  
 Project Number: 24038

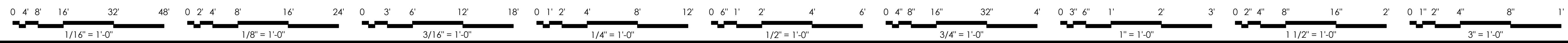
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Sheet Name: FIRE ALARM FLOOR PLAN

Sheet Number: **E104**  
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*[Signature]*  
 PROFESSIONAL  
 7-31-26





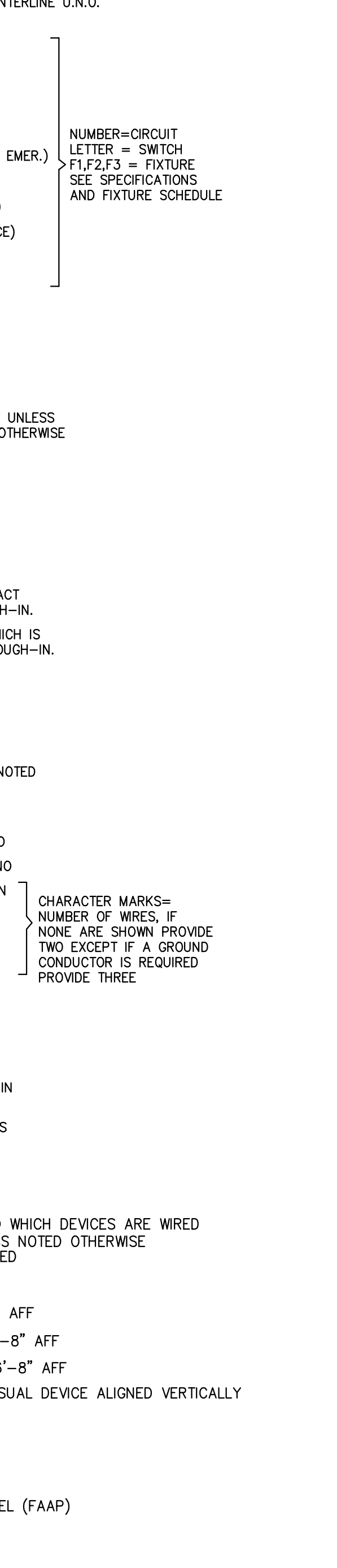
ELECTRICAL SPECIFICATIONS:

- 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.

- 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.

- 4. 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.
6. Unused openings in enclosures in conduits, boxes, cabinets, and panels shall be filled.
H. Present patented construction which is marred shall be repaired same as new construction.



ELECTRICAL SYMBOLS
TYPICAL: ALL MOUNTING HEIGHTS ARE TO DEVICE CENTERLINE U.N.O.
LIGHTING
RECESSED CEILING FIXTURE
SURFACE OR PENDANT CEILING FIXTURE
WALL MOUNTED FIXTURE
RECESSED FLUORESCENT FIXTURE (SHADING INDICATES EMER.)
SURFACE OR PENDANT FLUORESCENT FIXTURE
EXT LIGHT WALL MOUNTED (SHADING INDICATES FACE)
EXT LIGHT CEILING MOUNTED (SHADING INDICATES FACE)
LIGHT TRACK
BATTERY EMERGENCY FIXTURE
SWITCHES
SINGLE POLE SWITCH
THREE WAY SWITCH
RECEPTACLES
DUPLEX RECEPTACLE
DUPLEX RECEPTACLE, GROUND FAULT TYPE
SPECIAL RECEPTACLE, SIZE AND TYPE AS NOTED
MISCELLANEOUS
MOTOR OUTLET BOX (+ HP, KW OR KVA). VERIFY EXACT LOCATION AND HEIGHT OF ALL MOTORS BEFORE ROUGH-IN.
OUTLET WITH FINAL CONNECTIONS TO EQUIPMENT. WHICH IS F.B.O. VERIFY EXACT LOCATION AND HEIGHT BEFORE ROUGH-IN.
MOTOR STARTER
COMBINATION MOTOR STARTER/DISCONNECT SWITCH
TELE-POWER POLE
CEILING SURFACE JUNCTION BOX
WALL SURFACE JUNCTION BOX MOUNTING HEIGHT AS NOTED
SAFETY SWITCH (F = FUSED) 4'-6" AFF
TRANSFORMER
SURFACE ELECTRICAL PANEL 36" AFF TO BOTTOM UNO
RECESSED ELECTRICAL PANEL 36" AFF TO BOTTOM UNO
WIRING IN CONDUIT CONCEALED, ABOVE CEILINGS OR IN WALLS
WIRING IN CONDUIT CONCEALED IN OR UNDER FLOORS (UNO)
WIRING HOMERUN TO PANEL
GROUND CONDUCTOR
REFERENCE NOTE
TELEPHONE SYSTEM
TELEPHONE CONDUIT CONCEALED ABOVE CEILINGS OR IN WALLS
TELEPHONE CONDUIT CONCEALED IN OR UNDER FLOORS
WALL TELEPHONE / DATA OUTLET BOX 18" AFF
"W" = 4'-6" AFF
FIRE ALARM SYSTEM
NOTE: NUMBER BY SYMBOL INDICATES ZONE TO WHICH DEVICES ARE WIRED IN FIRE ALARM CONTROL PANEL UNLESS NOTED OTHERWISE
FIRE ALARM SYSTEM WIRING IN CONDUIT CONCEALED
FIRE ALARM SYSTEM WIRING IN CONDUIT EXPOSED
WALL FIRE ALARM MANUAL STATION - UP 4'-0" AFF
WALL FIRE ALARM VISUAL DEVICE ONLY - UP 6'-8" AFF
WALL FIRE ALARM AUDIO/VISUAL DEVICE - UP 6'-8" AFF
WALL FIRE ALARM MANUAL STATION & AUDIO/VISUAL DEVICE ALIGNED VERTICALLY
HEAT DETECTOR (135°) CEILING TYPE.
SMOKE DETECTOR - CEILING MOUNTED TYPE
FIRE ALARM SYSTEM CONTROL PANEL (FACP)
FIRE ALARM SYSTEM REMOTE ANNUNCIATOR PANEL (FAAP)
SPRINKLER SYSTEM WATER FLOW SWITCH
SPRINKLER SYSTEM TAMPER SWITCH

ELECTRICAL ABBREVIATIONS

Table listing electrical abbreviations such as AC, AFF, AMP, AV, AVF, AVF, AVF, F, FS, TS, AF, NIC, NL, PH, PNL, SS, SW, SWBD, XEMR, EC, EWC, EWH, EWF, EWB, FLA, FWU, FGI, HP, HT, IBCB, IWS, JB, KW, KWHR, LGS, LV, MAG, MAX, MDP, MFR, MIN, MTD, MTG, NEC, NOT IN CONTRACT, NIGHT LIGHT, PHASE (φ), PANEL, STAINLESS STEEL, SWITCH, SWITCHBOARD, TRANSFORMER, TO FLOOR ABOVE, TO FLOOR BELOW, TIME SWITCH, TELEPHONE TERMINAL BOARD, TELEPHONE TERMINAL CABINET, UNLESS NOTED OTHERWISE, UNINTERRUPTIBLE POWER SUPPLY, VOLT, VOLT-METER, WIRE, WIRED BY EC, WEATHERPROOF.

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ROCKFORD, ILLINOIS 61108
Professional Design Firm No. 184-003483
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e-mail legacy@legacydesigns.net
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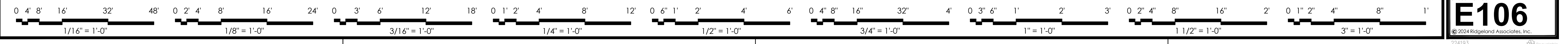
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Professional Engineer Seal for Lenon Kurdziel, AR 1980046, Expires 12/31/2025.

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Revisions table with columns for revision number, description, and date. Includes Drawing Date (8-5-2024) and Project Number (24038). E106 logo.



# OSNI MEDICAL OFFICE

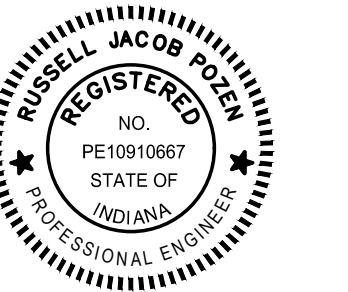
## 9900 COLUMBIA AVENUE MUNSTER, IN

ISSUED FOR CONSTRUCTION - 08/30/2024



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

*Handwritten signature*



08/30/2024

OSNI  
730 45TH AVE  
MUNSTER, IN 46321

DATE	REVISIONS AND NOTES

OSNI MEDICAL OFFICE BLDG  
Cover Sheet

NO SCALE

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DESIGN BY: DVG DATE: 10/12/23

PROJECT NO.: 23-0031

C001

### INDEX OF SHEETS

C001	Cover Sheet
C101	Existing Conditions
C102	Demolition Plan
C103	Site Plan
C104	Grading Plan
C105	Utility Plan
C106	Stormwater Pollution Prevention Plan (SWPPP)
C201-C205	Construction Details
C301-C304	SWPPP Details



Location Map  
(No Scale)

### BENCHMARK

MAG NAIL IN SOUTHWEST CORNER OF EXISTING PARKING LOT  
ELEVATION = 614.94 (NAVD88)

### LEGEND

	EXISTING DRAINAGE STRUCTURE		EXISTING CONTOURS
	EXISTING END SECTION		PROPOSED CONTOURS
	EXISTING SANITARY STRUCTURE		BOUNDARY LINES
	EXISTING FIRE HYDRANT		RIGHT-OF-WAY LINES
	EXISTING VALVE & BOX		PROPOSED LOT LINES
	EXISTING B-BOX		UNDERLYING LOT LINE
	EXISTING STREET LIGHT		EASEMENT LINES
	POWER POLE		BUILDING LINES
	SBC PEDESTAL		CHAINLINK FENCE
	MAIL BOX		ORNAMENTAL FENCE
	PROPOSED DRAINAGE STRUCTURE		OVERHEAD POWER LINES
	PROPOSED END SECTION		TELEPHONE ROUTE
	PROPOSED SANITARY STRUCTURE		ELECTRIC ROUTE
	PROPOSED FIRE HYDRANT		GAS ROUTE
	PROPOSED VALVE & VAULT		EXISTING WATER
	PROPOSED VALVE & BOX		EXISTING STORM
	PROPOSED B-BOX		EXISTING SANITARY
	PROPOSED STREET LIGHT		PROPOSED WATER
	DIRECTION OF FLOW		PROPOSED STORM
	OVERLAND FLOOD ROUTE		PROPOSED SANITARY
	PROPOSED TOP RETAINING WALL ELEVATION		
	PROPOSED BOTTOM OF RETAINING WALL ELEVATION		
	PROPOSED TOP OF CURB ELEVATION		
	PROPOSED GUTTER FLOWLINE ELEVATION		
	PROPOSED SURFACE ELEVATION		
	STORM SEWER CB #1 / 48"Ø 102221, 1020M1 R: 100.00 I: 93.00 (W) I: 94.00 (E)		SAN. MH A / 48"Ø 102221, 1020AGS R: 100.00 I: 94.00 (W) I: 93.90 (E)
	WATER FH #1 G: 100.0		V.B. #1 18" GATE VALVE C: 100.0 T/P: 95.0

**SCHOOL DISTRICT**  
SCHOOL TOWN OF MUNSTER  
8616 COLUMBIA AVENUE  
MUNSTER, IN 46321  
(219) 836-9111

**WATER UTILITY**  
TOWN OF MUNSTER  
WATER DEPARTMENT  
1005 RIDGE ROAD  
MUNSTER, IN 46321  
(219) 836-6970

**ELECTRIC & GAS UTILITY**  
NIPSCO  
801 E. 86th AVENUE  
MERRILLVILLE, IN 46410  
(800) 464-7726

**OWNER**  
OSNI  
730 45TH AVENUE  
MUNSTER, IN 46321  
LWERTH@OSNI.ORG  
(219)-924-3300

**MUNICIPAL**  
TOWN OF MUNSTER  
COMMUNITY DEVELOPMENT  
1005 RIDGE ROAD  
MUNSTER, IN 46321  
(219) 836-6995

**SANITARY SEWER UTILITY**  
TOWN OF MUNSTER  
SEWER DEPARTMENT  
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**CABLE UTILITY**  
COMCAST  
16 W. 84th DRIVE  
MERRILLVILLE, IN 46410  
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**TELECOM UTILITY**  
AT&T  
5858 N. COLLEGE AVENUE  
INDIANAPOLIS, IN 46220  
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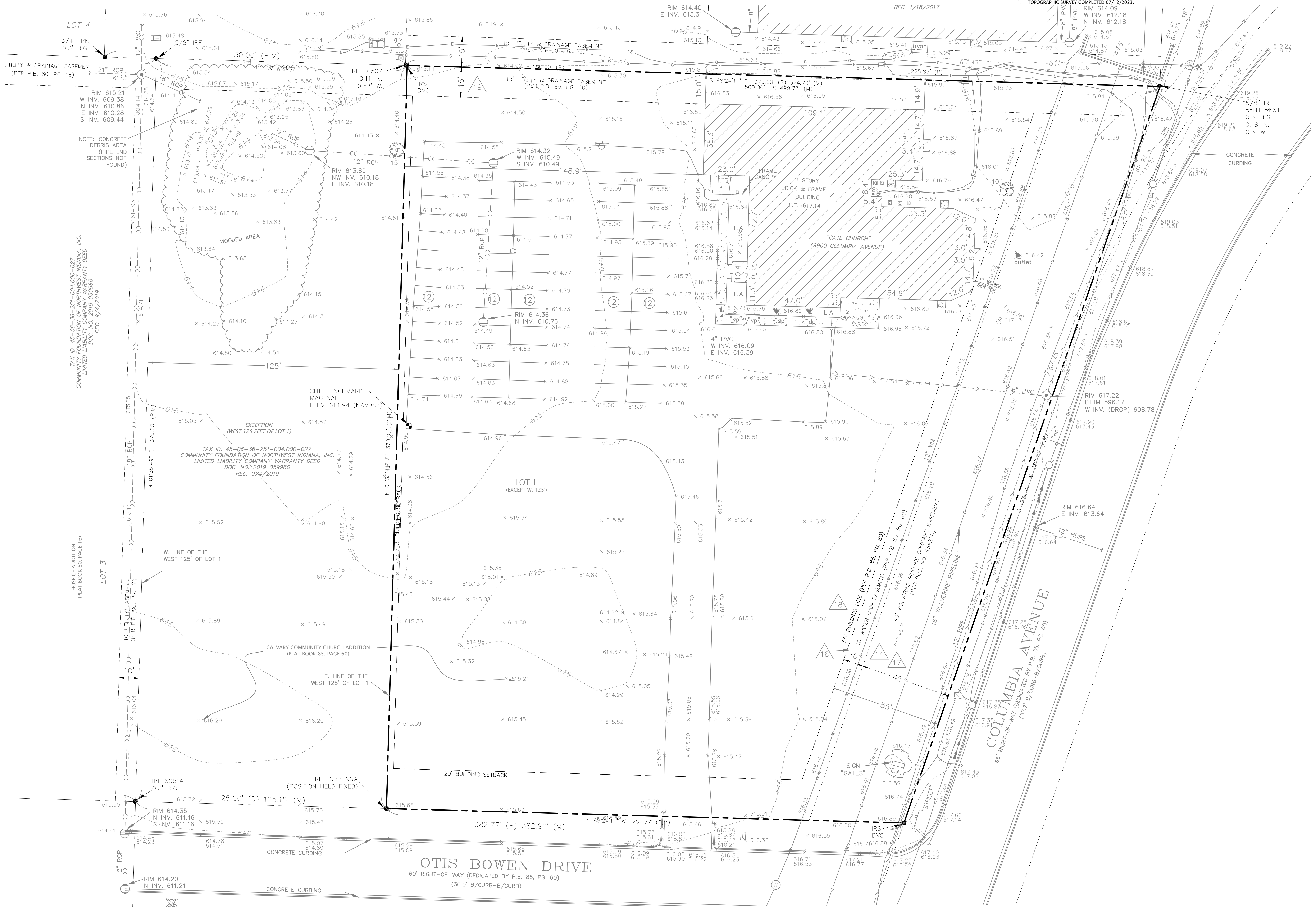


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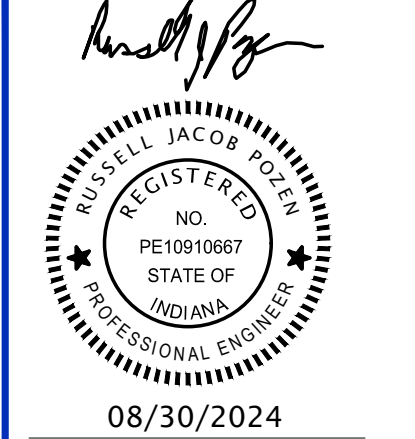
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DATE OF SURVEY

1. TOPOGRAPHIC SURVEY COMPLETED 07/12/2023.



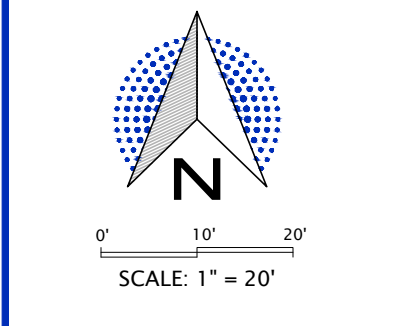
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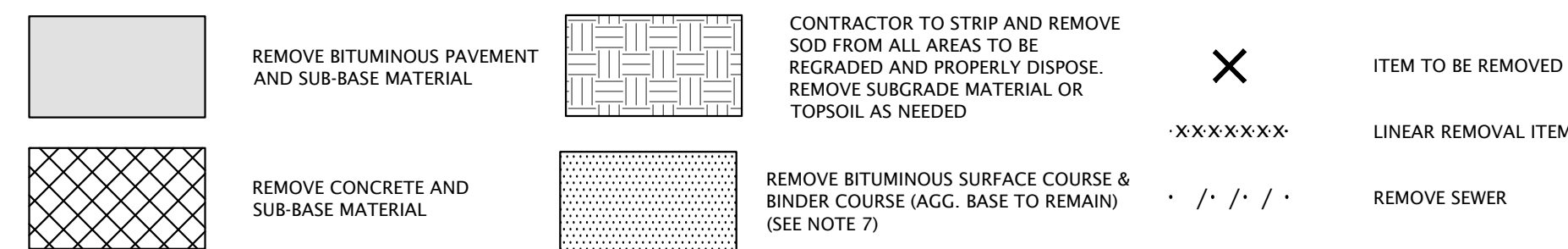
DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
 Existing Conditions



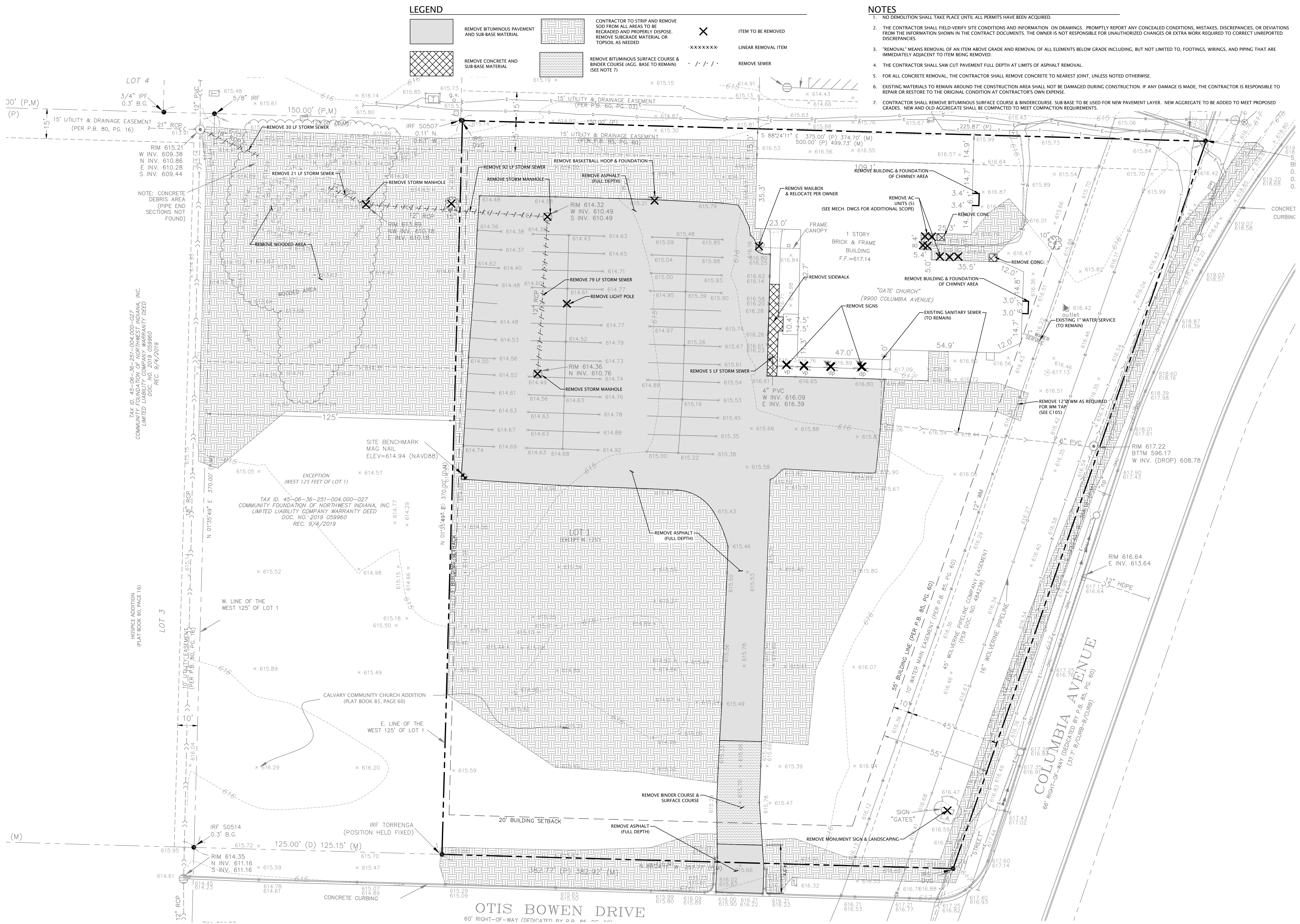
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DESIGN BY RJP	DATE 10/12/23
PROJECT NO. 23-0031	
<b>C101</b>	

**LEGEND**

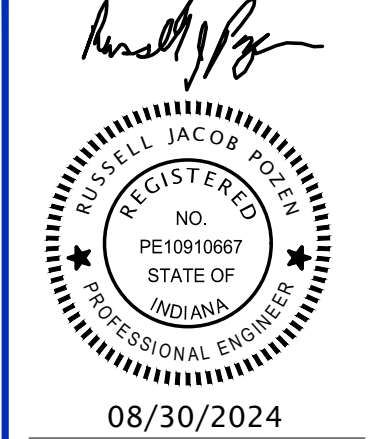


**NOTES**

1. NO DEMOLITION SHALL TAKE PLACE UNTIL ALL PERMITS HAVE BEEN ACQUIRED.
2. THE CONTRACTOR SHALL FIELD-VERIFY SITE CONDITIONS AND INFORMATION ON DRAWINGS. PROMPTLY REPORT ANY CONCEALED CONDITIONS, MISTAKES, DISCREPANCIES, OR DEVIATIONS FROM THE INFORMATION SHOWN IN THE CONTRACT DOCUMENTS. THE OWNER IS NOT RESPONSIBLE FOR UNAUTHORIZED CHANGES OR EXTRA WORK REQUIRED TO CORRECT UNREPORTED DISCREPANCIES.
3. "REMOVAL" MEANS REMOVAL OF AN ITEM ABOVE GRADE AND REMOVAL OF ALL ELEMENTS BELOW GRADE INCLUDING, BUT NOT LIMITED TO, FOOTINGS, WIRINGS, AND PIPING THAT ARE IMMEDIATELY ADJACENT TO ITEM BEING REMOVED.
4. THE CONTRACTOR SHALL SAW CUT PAVEMENT FULL DEPTH AT LIMITS OF ASPHALT REMOVAL.
5. FOR ALL CONCRETE REMOVAL, THE CONTRACTOR SHALL REMOVE CONCRETE TO NEAREST JOINT, UNLESS NOTED OTHERWISE.
6. EXISTING MATERIALS TO REMAIN AROUND THE CONSTRUCTION AREA SHALL NOT BE DAMAGED DURING CONSTRUCTION. IF ANY DAMAGE IS MADE, THE CONTRACTOR IS RESPONSIBLE TO REPAIR OR RESTORE TO THE ORIGINAL CONDITION AT CONTRACTOR'S OWN EXPENSE.
7. CONTRACTOR SHALL REMOVE BITUMINOUS SURFACE COURSE & BINDER COURSE. SUB-BASE TO BE USED FOR NEW PAVEMENT LAYER. NEW AGGREGATE TO BE ADDED TO MEET PROPOSED GRADES. NEW AND OLD AGGREGATE SHALL BE COMPACTED TO MEET COMPACTION REQUIREMENTS.



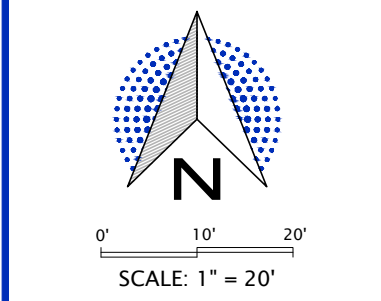
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**OSNI**  
730 45TH AVE  
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DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
Demolition Plan



DESIGN BY	DATE
RJP	10/12/23
PROJECT NO.	23-0031
<b>C102</b>	

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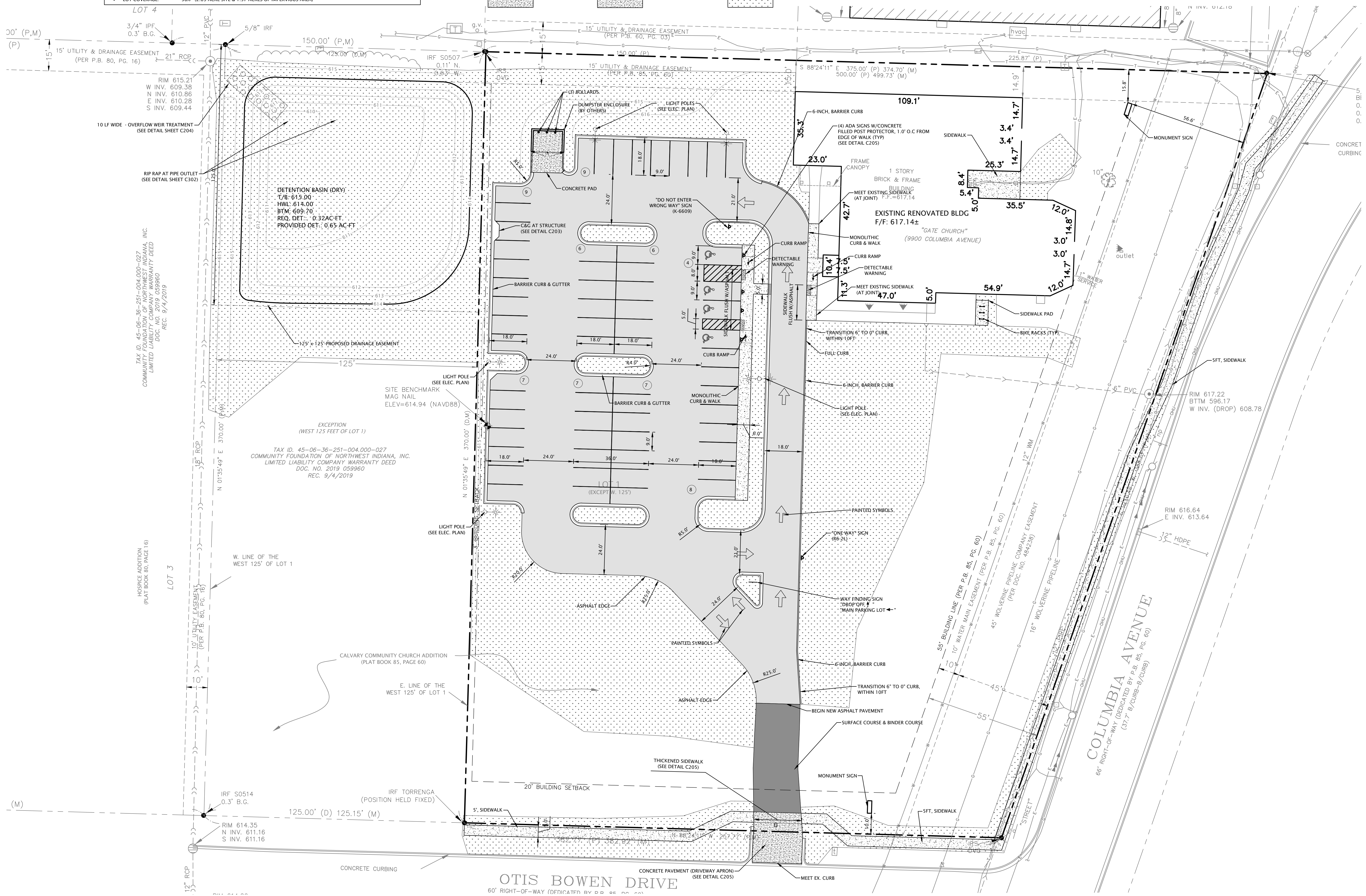
SITE DATA	
ZONING:	CD-4-B
BUILDING AREA:	8,000± SQ. FT. (RENOVATED EX. BLDG)
PARKING REQUIRED:	46 SPACES REQUIRED TOTAL & INCLUDES 3 ADA (MEDICAL CLINIC: 5.7 SPACE PER 1,000SF FLOOR AREA)
PARKING PROVIDED:	63 SPACES TOTAL (INCLUDES 4 ADA SPACES)
LOT COVERAGE:	58% (2.69 ACRE SITE & 1.57 ACRES OF IMPERVIOUS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

**LEGEND**

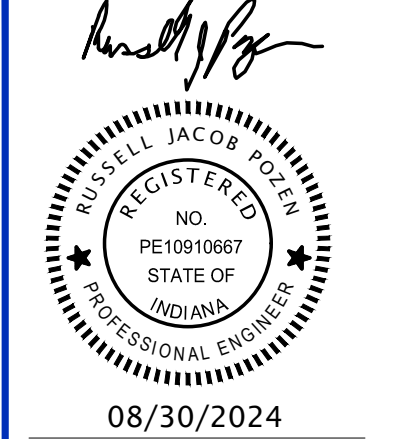
	SURFACE & BINDER COURSE		CONCRETE SIDEWALK		ASPHALT PAVEMENT		STRIPING (PAINT, 4" WIDE)
	CONCRETE PAVEMENT (DRIVEWAY APRON)		CONCRETE PAD		4" (MIN) TOPSOIL & SEEDING/LANDSCAPING (SEE LANDSCAPE PLAN)		BARRIER CURB & GUTTER
							EXPANSION JOINT
							TOOLED CONSTRUCTION JOINT

**NOTES**

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



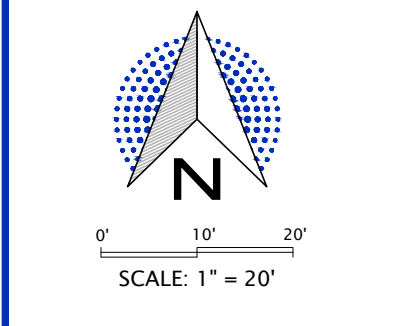
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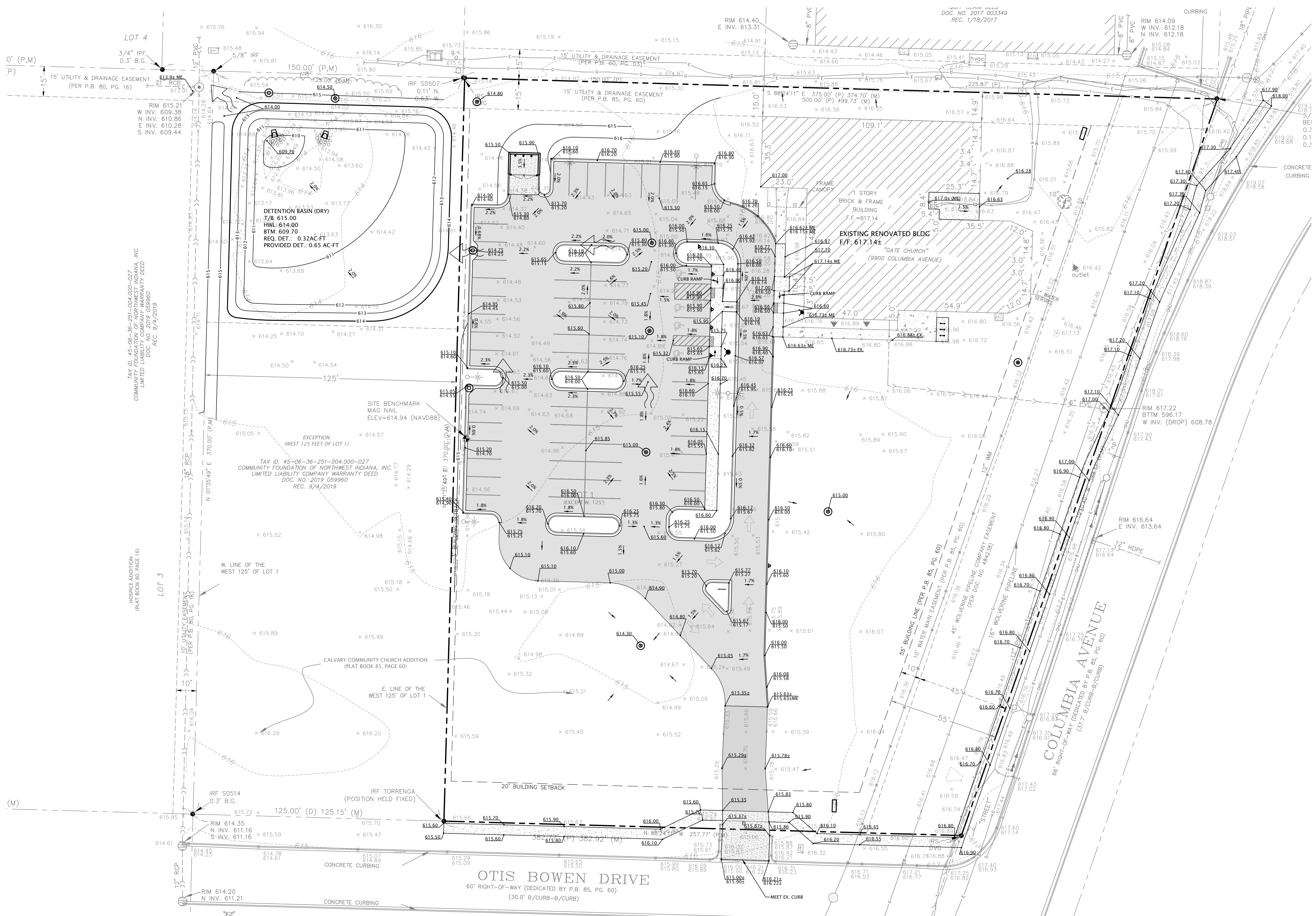
DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
 Site Plan

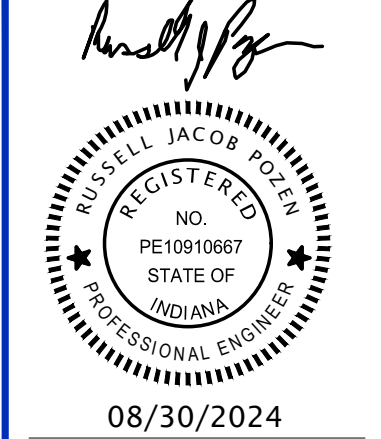


DESIGN BY	RJP	DATE	10/12/23
PROJECT NO.	23-0031		
<b>C103</b>			





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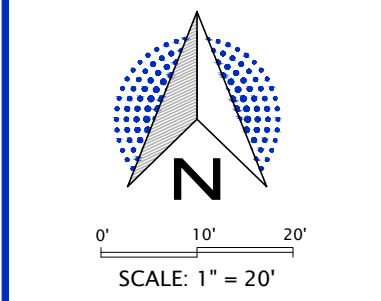


08/30/2024

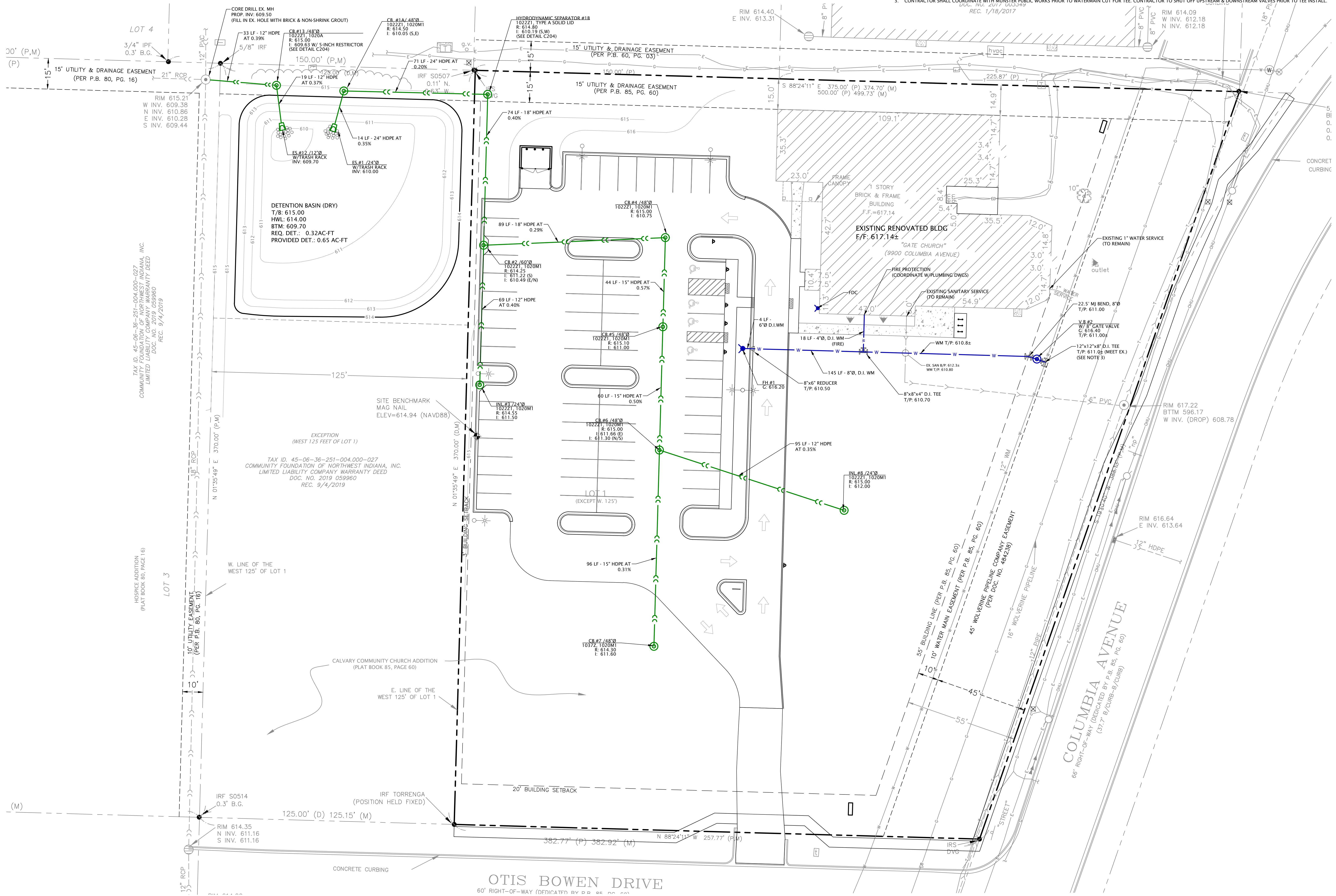
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DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
 Grading Plan



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

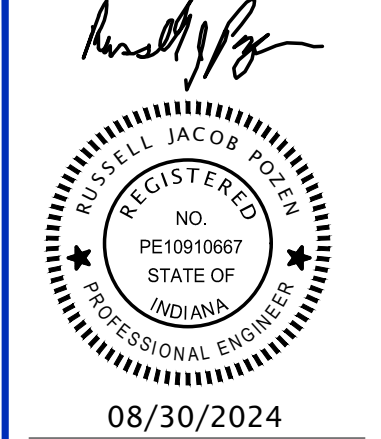


**NOTES**

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.



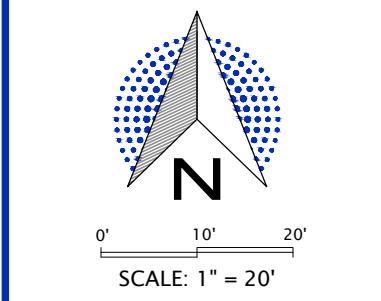
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DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
 Utility Plan

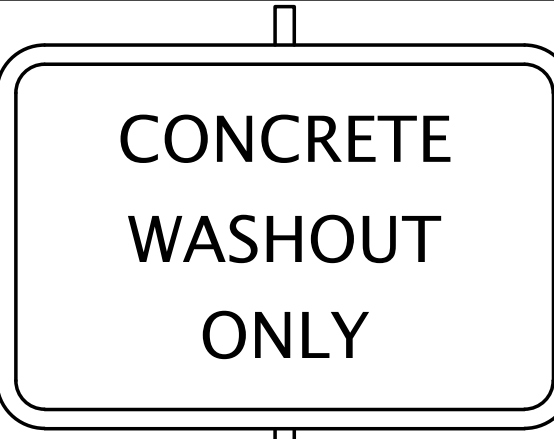


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 DESIGN BY: RJP DATE: 10/12/23  
 PROJECT NO.: 23-0031  
**C105**

**TOTAL DISTURBANCE  
AREA = 2.00 ac**

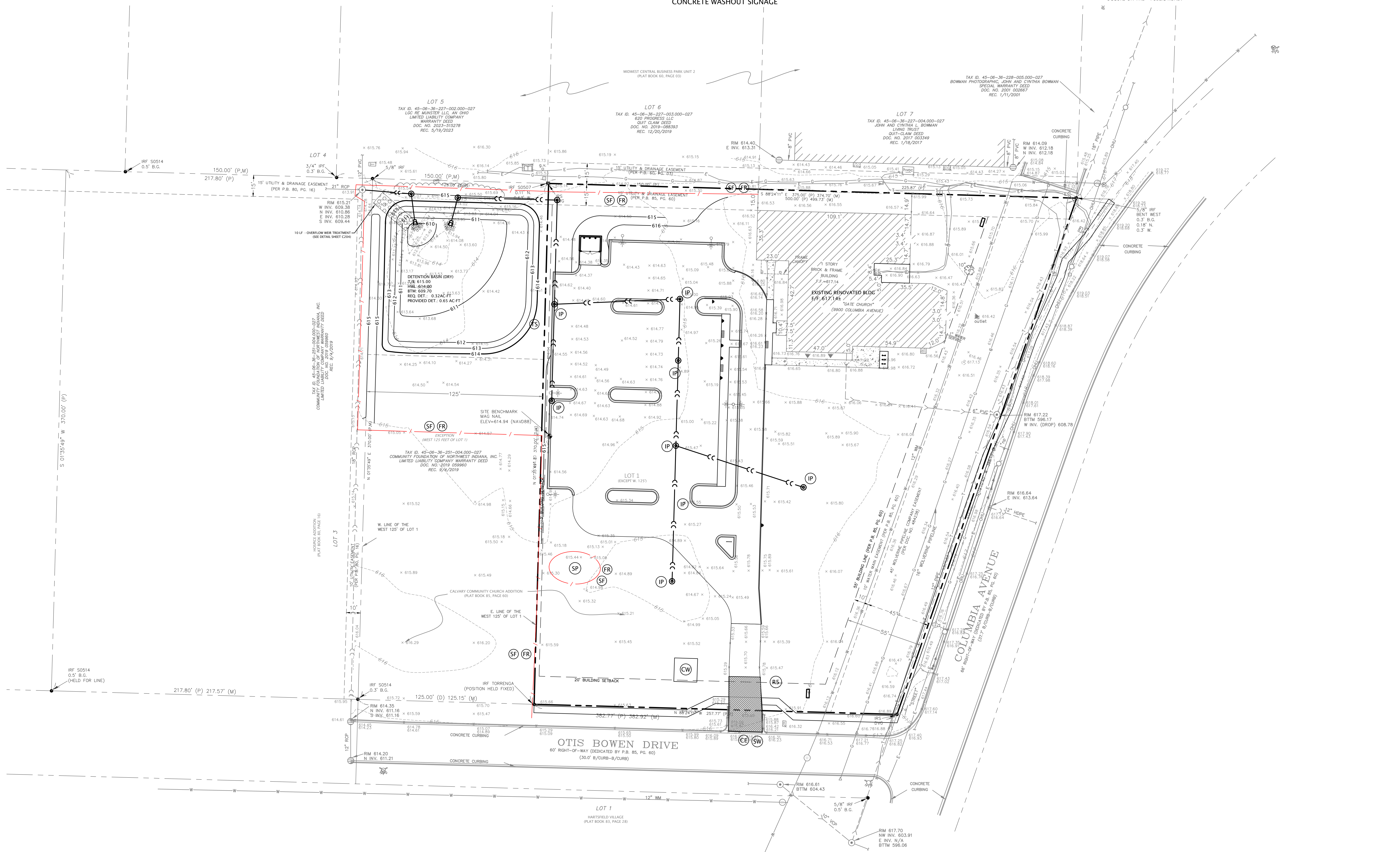
**LEGEND**

- 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

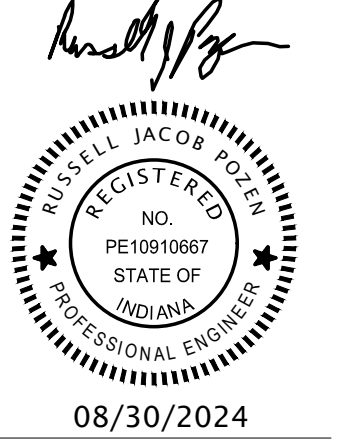


**NOTES**

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.



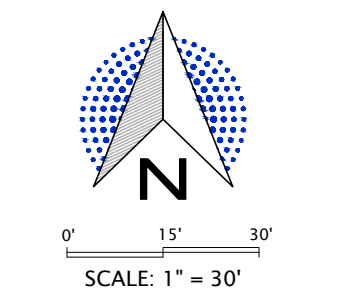
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730 45TH AVE  
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DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
Storm Water Pollution Prevention Plan



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

**SITE DEVELOPMENT  
COMMON EXCAVATION AND EARTHWORK  
GENERAL SPECIFICATIONS**

**1.0 Quality Assurance:**

1. Contractor shall notify the Construction Manager, Architect, Engineer and testing laboratory inspector when common excavation and earthwork is scheduled. Earthwork operations which require inspecting and testing by testing laboratory inspector shall not be performed unless testing laboratory inspector is present.
2. Contractor shall provide a 1-year warranty against settlement and damage caused by settlement for common excavation and earthwork.
3. If settlement occurs within 1 year after the date of Substantial Completion, the Contractor shall remove the affected surface feature, provide additional suitable fill, thoroughly compact and restore the surface feature to its original undisturbed condition.

**2.0 Testing:**

1. An inspector from the Owner's soils testing laboratory shall, during the common excavation work operations, provide the following services:
  - a. Test & Classify on-site excavated soils for reuse as topsoil, common site fill, embankment fill and structural fill.
  - b. Test materials furnished from any off-site sources to verify compliance with specified requirements.
  - c. Observe proofing rolling of exposed subsoil in areas where grades will be raised and provide recommendations for soil correction to ensure that unstable materials have been removed.
  - d. Inspect placement and compaction of common site fill, embankment fill and structural fill to ensure the material being compacted is in accordance with specified requirements. For each lift, a minimum of 1 density test for every 10,000 square feet of lawn surface area, and 5,000 square feet of paved surface area, and 500 square feet of proposed building area is required.
  - e. Density tests are required for all subgrade/subsoil in areas that have been cut to rough grade elevations, after soils have been compacted to ensure soil compaction density is in accordance with the specified requirements. Test frequency shall be as described above in sub-paragraph 1 d.
2. Tests and analysis of fill materials shall be performed in the laboratory in accordance with ASTM D1557.
3. Testing shall be performed as directed by the Soils Report Engineer. Compaction Testing shall be performed in accordance with ASTM D2922 and D3017.

**3.0 Special Weather Protection:**

1. Construction shall be limited during cold weather to prevent the formation of frost and snow accumulation to occur in materials used for site fill or in soils where site excavation is taking place. All areas that are scheduled for excavation activity shall be protected from freezing and snow accumulation. Any frozen material shall be removed and disposed of off site.

**4.0 Clearing & Grubbing:**

1. Contractor shall provide all clearing, grubbing, removal and disposal of all vegetation and debris related to the existing site conditions.
2. Vegetation debris shall be removed from site and transported to a local and state authorized disposal sites.

**5.0 Top Soil Stripping:**

1. The project has a depth of topsoil variation throughout the site. The geotechnical report shows the topsoil depths at several locations throughout the project site. The Contractor shall strip and stockpile all topsoil at the location designated in the Site Development Drawings or as directed by the owner.
2. Topsoil removal material shall consist of fertile, friable, organic surface soil stripped from the site and shall be free of subsoil, brush, turf grasses, weeds, roots, stumps, stones larger than 1-inch in diameter and other contaminated matter.\*
3. Topsoil shall be stockpiled so that it may be reused and re-spread on site over Lawn and Landscaped areas.
4. The topsoil stockpile area shall be properly protected against soil erosion into the adjacent drainage system.

**6.0 Borrow Material/Embankment & Structural Fill Material:**

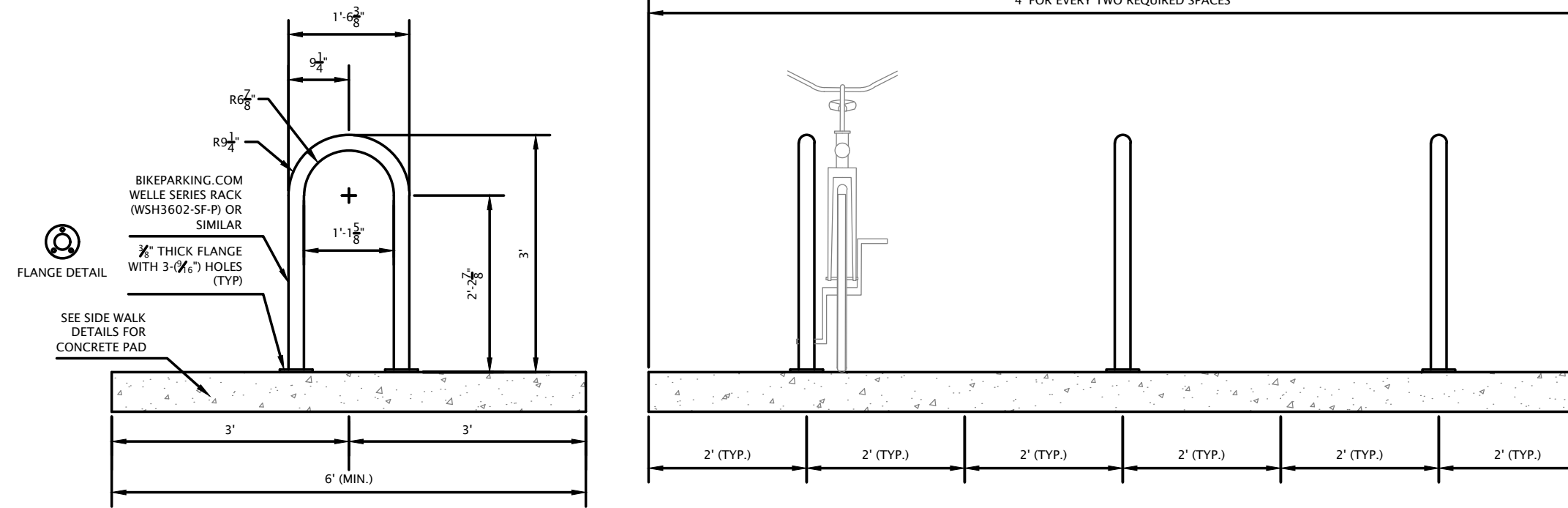
1. Borrow material for structural fill shall be first excavated from on site source locations as defined by the Soils Report Engineer.
2. Structural fill material shall be placed under all utility trench corridors, building pad locations, paved parking, driveway, sidewalk and roadway areas.
3. Common site and embankment fill shall be placed under lawn, landscape and detention pond areas.
4. Maintain moisture content of structural fill within plus or minus 3 percent of the optimum moisture content as determined by the Modified Proctor Test.
5. Contractor shall provide subgrade conditions meeting the design grades for pavements, exterior walks, curbs and building pads.
6. Contractor shall only place approved fill material under proposed building pads and parking areas
7. Contractor shall undercut any areas that do not meet the requirements for structural fill and shall replace with structural fill.

**7.0 Excavation:**

1. Protect all existing natural features on site.
2. Install soil erosion prevention measures in accordance with local and state ordinances and in accordance with the soil erosion control project drawings.
3. All proposed contours shown on this set of plans are proposed surface elevation. All fill shall be placed as structural fill for buildings and parking lots.
4. Prior to excavation an on-site Pre-construction Meeting shall be held between the Engineer, Owner/Owner's Representative and General Contractor to discuss earthwork protocol.
5. During the progress of the work, if subsurface or latent physical conditions are encountered at the site differing materially from those indicated in the contract or if ordinarily encountered at the site, the party discovering such conditions shall promptly notify the Owner/Owner's Representative/General Contractor and the Engineer in writing of the specific differing conditions. Upon written notification, the Engineer and Owner/Owner's Representative/General Contractor will investigate the conditions, and determine if adjustments to the Construction Documents and/or to the Contract are warranted. No contract adjustment which results in a benefit to the Contractor will be allowed unless the Contractor has provided the required written notice of a changed condition.

**8.0 Compaction:**

1. Exercise care when compacting exposed soils relative to water table, rain or other moisture conditions.
2. Maintain moisture content of embankment material and structural fill material near optimum as recommended by the soils testing laboratory and Soil Boring Engineer. Maintain optimum moisture content of backfill and fill material to attain the required compaction density.
3. Backfill common site fill, embankment fill, structural fill and utility trenches to contours and elevations defined on the project site development plans.
4. Systematically backfill to allow maximum time for optimum compaction and do not backfill over porous, wet or spongy subgrade surfaces.
5. Employ a soils placement and compaction method that does not disturb or damage work performed and that maximizes soil compaction.
6. All common site, embankment and structural fill shall be place and compacted in continuous layers/lifts not exceeding 8-inches loose depth.
7. Compact subsoil for structural fill to 95% of the Modified Proctor Maximum Dry Density (ASTM D1557) beneath all building pad locations.
8. Compact subsoil for structural fill to 95% of Modified Proctor Maximum Dry Density (ASTM D1557) beneath all pavement areas and utility corridor trenches.
9. Compact subsoil for common site fill and embankment fill to 90% of the Modified Proctor Maximum Dry Density (ASTM D1557) beneath all lawn, landscape and detention pond areas.
10. Compact subsoil under building pad area to achieve soil-bearing capacities of 3,000 psf at a distance of 4-feet below the proposed finish floor elevations of all building ads.
11. If tests indicated work does not meet specified requirements, all sub-standard work shall be immediately removed, replaced and retested at no expense to the Owner.



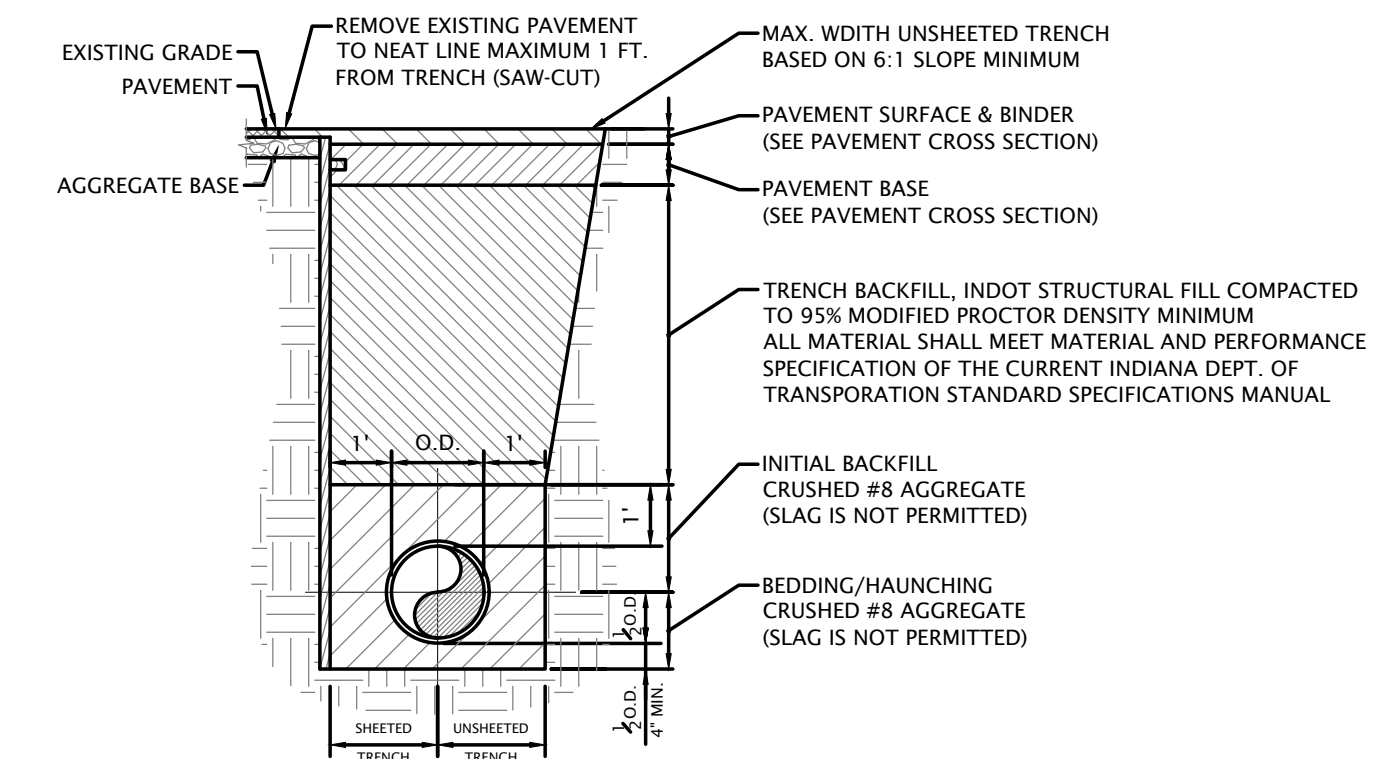
**Location and Design Elements**

1. The racks shall be of the inverted U-structure design.
2. The racks shall accommodate U-locks/ chains and support bicycles at two location on the rack.
3. The racks shall have a thermoplastic powder coating and must be anchored securely to ground per the manufacturer's specifications.
4. Bicycle parking should be reasonably and safely separated from vehicle parking (e.g. grade differences, landscaping, poles, etc.)
5. Rack spaces shall be two feet by six feet per bicycle with a five foot wide access aisle from behind. Sidewalks adjacent to bike racks may serve as access aisle.

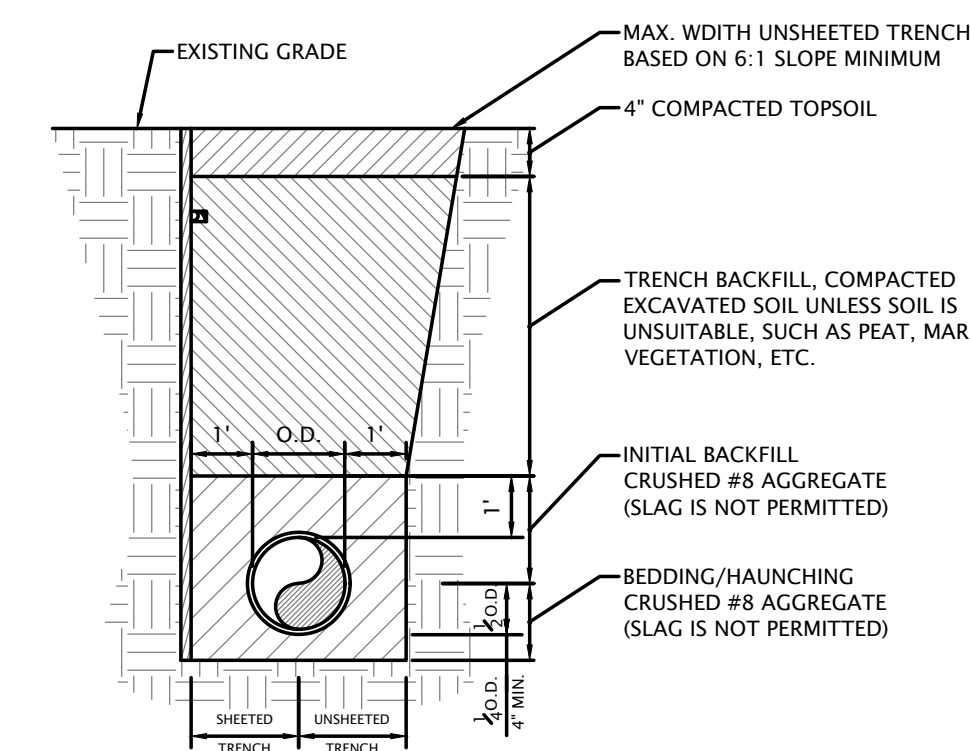
**BICYCLE RACK**  
(NOT TO SCALE)

**GENERAL NOTES**

1. Town of Munster, DVG Team, Inc. (Engineer) and any Utility Company affected must be notified at least two working days prior to commencement of work. Prior to construction the contractor is to call INDIANA 811.
2. Elevation Datum is U.S.G.S.
4. The locations of existing underground utilities, such as water mains, sewer, gas lines, etc., as shown on the plans have been determined from the best available information and is given for the convenience of the contractor. However, the engineer and the owner do not assume responsibility for the accuracy of the locations shown. It shall be the responsibility of the contractor to contact all utility companies and their facilities shall be located prior to commencement of any work.
5. Wherever obstructions not shown on the plans are encountered during the progress of the work and interfere to such an extent that alteration in the plans is required, the engineer shall be notified prior to any changes and any changes shall only be as approved via written instruction by the Engineer and the local Municipal Engineer.
6. As-built drawings shall be prepared by the contractor and submitted to the engineer as soon as the project is completed. Any change in the length, location or alignment shall be shown in red. "AS BUILT" drawings shall be forwarded to the appropriate utility organizations. Four (4) copies shall be submitted to the Municipal Engineer.
7. All proposed sanitary sewer, storm sewer, water main and service lines under and within 2' of pavement, curbs, and sidewalk shall be backfilled with crushed limestone (INDOT #53) or material consistent with Class I or II material as described in ASTM D2321 placed in 8" maximum layers and mechanically compacted to 95% modified proctor density. Slag is not permitted.
8. Materials used for water, sanitary sewer, storm sewer and streets shall conform to the Town of Munster standards and specifications.
9. Any existing public improvements (sidewalks, curb and gutter, etc.), disturbed during construction shall be replaced in kind, or per current of Town of Munster specifications as directed by the Municipal Engineer.
10. All public street construction shall meet performance standards of the current edition of the Indiana Department of Transportation Standard Specifications.
11. Street signage shall be included in accordance with the MUTCD requirements applicable at the time of construction.
12. The Owner/General Contractor shall be responsible for any and all utility new customer form submissions. Utility company review typically cannot begin until all new customer forms have been submitted.



**PIPE BEDDING/TRENCH BACKFILL**  
(NOT TO SCALE)  
FOR TRENCH IN PAVEMENT AREAS



**PIPE BEDDING/TRENCH BACKFILL**  
(NOT TO SCALE)  
FOR TRENCH IN GRASS/LANDSCAPED AREAS



1155 Troutwine Road  
Crown Point, IN 46307  
P: (219) 662-7710  
F: (219) 662-2740  
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08/30/2024

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DATE:	REVISIONS AND NOTES:

**OSNI MEDICAL OFFICE BLDG**  
Construction Details

NO SCALE

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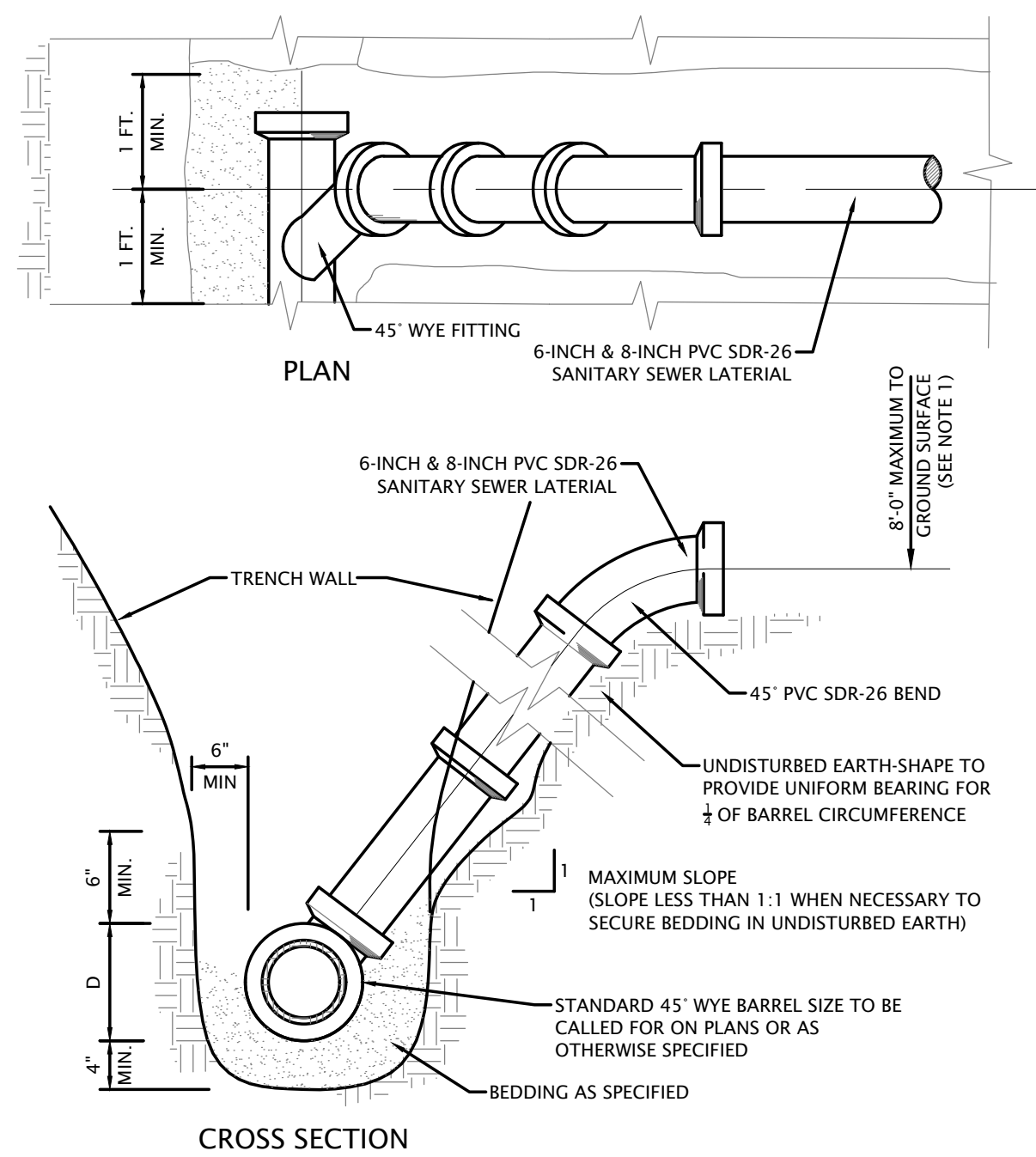
DESIGN BY DVG	DATE 10/12/23
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PROJECT NO. 23-0031
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**C201**

## SANITARY SEWER GENERAL NOTES

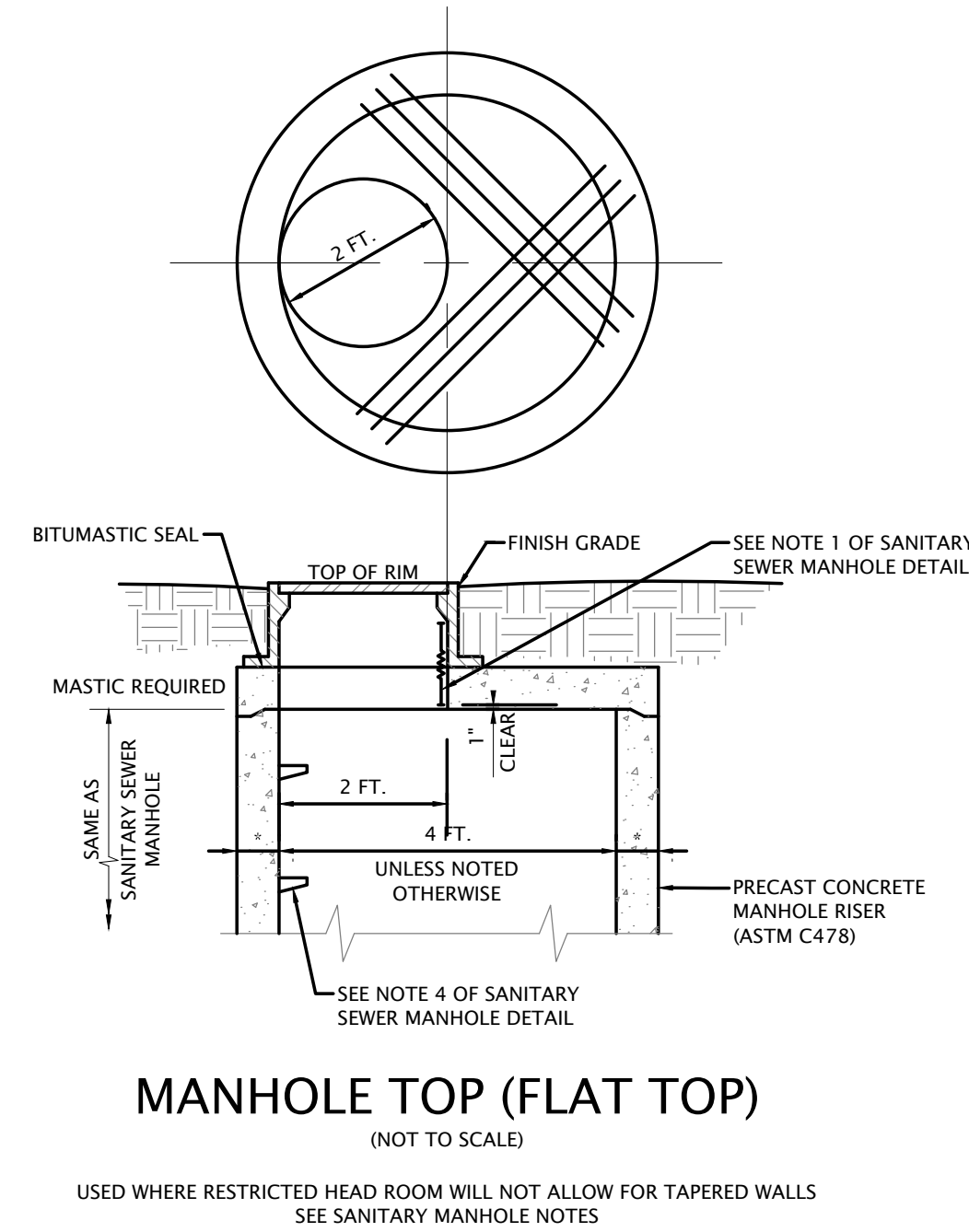
- All Floor Drains shall discharge to the sanitary sewer.
- Sanitary sewer pipe shall be PVC (SDR 26) ASTM D-3034 with push-on rubber gasket joints and shall be in accordance with ASTM C-3212, unless otherwise noted on the plans for portions to be PVC (SDR 21).
- All sanitary sewer manholes shall be air tested for leaks in accordance with ASTM C1244-93 and Standard Test Method for Concrete Sewer Manholes by Negative Air Pressure (Vacuum) Test.
- Where ductile iron pipe is used for sanitary sewer, the pipe shall be in accordance with ANSI A-21.51 and the joints in accordance with ANSI A-21.11.
- A deflection test shall be performed on each flexible pipe following the elapse of thirty (30) days after the placement of the final backfill. No pipe shall exceed a deflection of five percent (5%) or greater. The diameter of the rigid ball or mandrel used for a deflection test shall be no less than ninety-five percent (95%) of the base inside diameter of the pipe to be tested dependent on what is specified in the corresponding ASTM standard. The test shall not be performed with the aid of a mechanical pulling device.
- A leakage test shall be performed using one of the following leakage test types.
  - A hydrostatic test shall be performed with a minimum of two (2) feet of positive head. The rate of exfiltration or infiltration shall not exceed two hundred (200) gallons per inch of pipe diameter per linear mile per day.
  - An air test shall conform to ASTM F1417-92, Standard Test Method for Installation Acceptance of Plastic Gravity Sewer Lines Using Low-Pressure Air, for plastic pipe.
- All sanitary sewer shall be inspected by Town of Munster.



### NOTES:

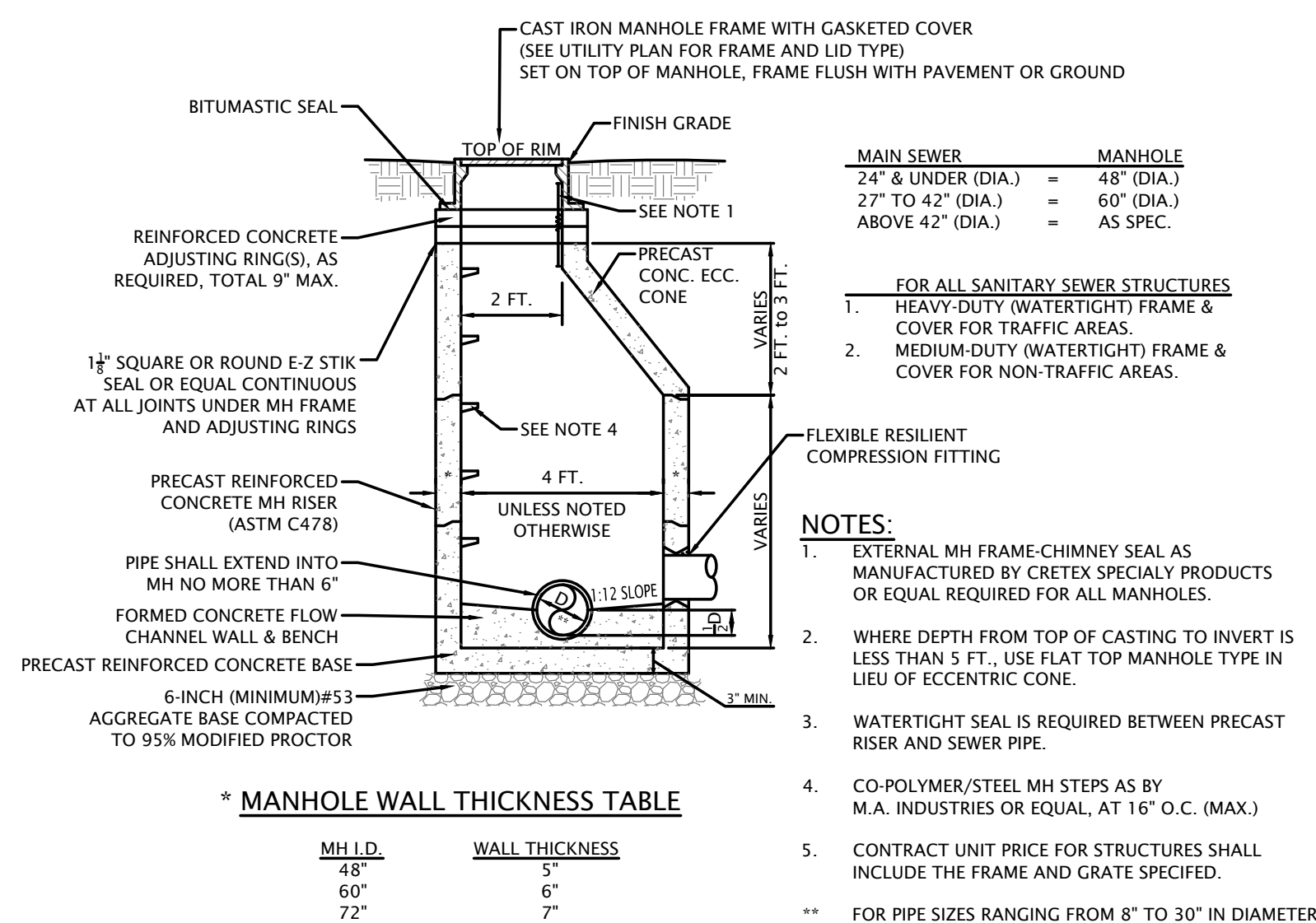
- RISERS TO BE CONSTRUCTED IN LIEU OF WYES WHERE SEWER DEPTH EXCEEDS 10 FEET. FOR PIPE MATERIAL AND CONCRETE, SEE SPECIFICATIONS.
- ALL SANITARY SEWER SERVICE LATERALS SHALL BE PLUGGED WITH A WATERTIGHT CAP AND SHALL BE LOCATED WITH 4-INCH X 4-INCH WOOD MARKERS TO IDENTIFY LATERAL END.

## SANITARY SEWER SERVICE (NOT TO SCALE)



### MANHOLE TOP (FLAT TOP) (NOT TO SCALE)

USED WHERE RESTRICTED HEAD ROOM WILL NOT ALLOW FOR TAPERED WALLS  
SEE SANITARY MANHOLE NOTES



### SANITARY SEWER MANHOLE (NOT TO SCALE)

## WATERMAIN GENERAL NOTES

- All water mains, fittings, and valves shall be ductile iron cement lined pressure class 350 with rubber gasket push-on joints in accordance with ANSI A-21.51 & AWWA C 151 and be Polyethylene Encased per IAC 8-3.2-8. Polyethylene encasement shall be AWWA C105 Low Density, 8 mil thickness and is required on all ductile iron watermain. Water main joints shall conform to the requirements of AWWA C 111. Mechanical joints shall be restrained and shall use Meg-A-Lug as manufactured by EBAA Iron Sales (or equal). Watermain may be PVC C900, DR 18 only if noted on the plans.
- Water mains shall be laid at least 10' horizontally from any existing or proposed sanitary sewer, storm sewer, sewer manhole, drain or service connection as measured from outside edge of the water main to outside edge of the sewers or manhole. If local conditions prevent horizontal separation of 10 feet, then the SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY REQUIREMENTS as specified in the IAC 8-3.2 Sections 8, 9 and 17(a).
- When water mains cross any existing or proposed sanitary or storm sewers (sewers), there shall be at least 18 inches vertical separation between the outside edge of the water main and the outside edge of the sewer. This shall be the case where water mains cross above or below sewers. This crossing must be at a minimum angle of forty-five (45) degrees measured from the centerline of each. All these conditions specified shall be maintained for a minimum distance of ten (10) feet from either side of the water main. If vertical separation specified herein cannot be met, then the SEWER SHALL BE CONSTRUCTED OF WATER MAIN QUALITY REQUIREMENTS as specified in the IAC 8-3.2 Sections 8, 9 and 17(a).
- For additional separation requirements between water mains and sewers, the Contractor shall refer to the Indiana Administrative Code 327 IAC 8 and IAC 3.
- All water main shall be installed in accordance with IAC 8-3.2-17. The contractor shall provide pressure and leak testing results conforming to IAC 8-3.2-17(a).
- All water main shall be disinfected in accordance with IAC 8-3.2-18.

### RESTRAINED PIPE LENGTH (FEET)

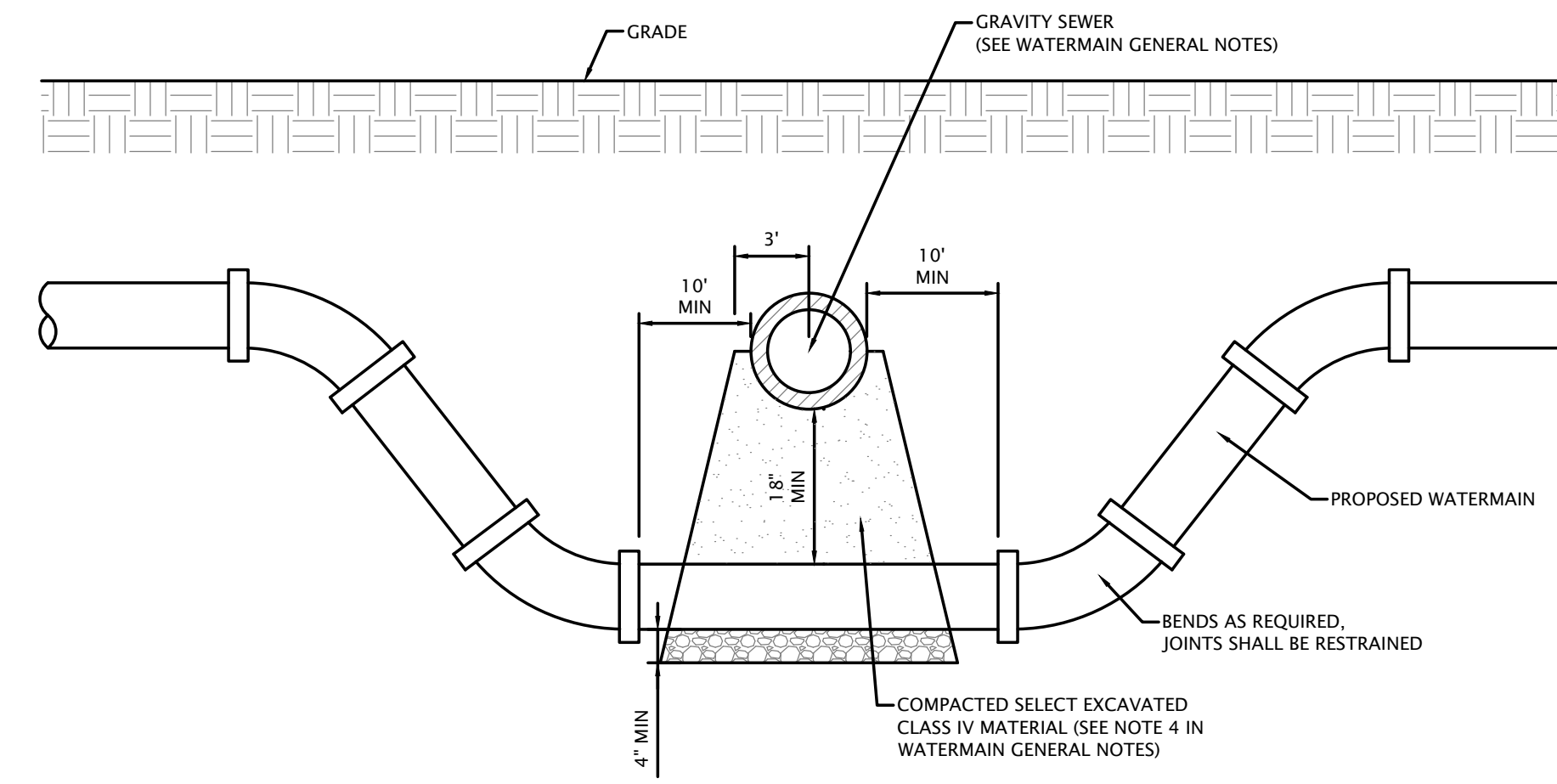
PIPE SIZE (INCHES)	TEE* BRANCH	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW	DEAD ENDS
4	0	15	6	3	2	20
6	9	22	9	4	2	28
8	18	27	11	5	3	37
10	25	33	14	7	3	44
12	33	39	16	8	4	52
14	41	44	18	9	4	60
16	48	50	21	10	5	68
18	56	55	23	11	5	75
20	63	61	25	12	6	82
24	77	71	29	14	7	96
30	97	86	36	17	8	116
36	116	100	41	20	10	135

\* ONE FULL LENGTH (18') OF PIPE ON BOTH SIDES OF BRANCH TO BE RESTRAINED.

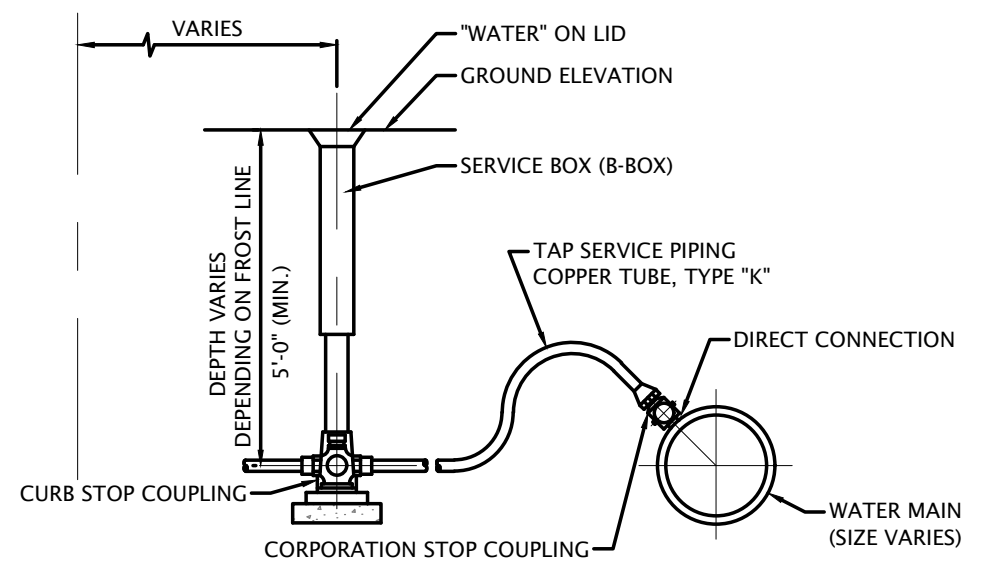
INCREASE ALL LENGTHS IN TABLE BY 75% FOR USE ON POLYETHYLENE WRAPPED DUCTILE IRON PIPE OR PVC PIPE.

TEST PRESSURE BASED ON 150 PSI.

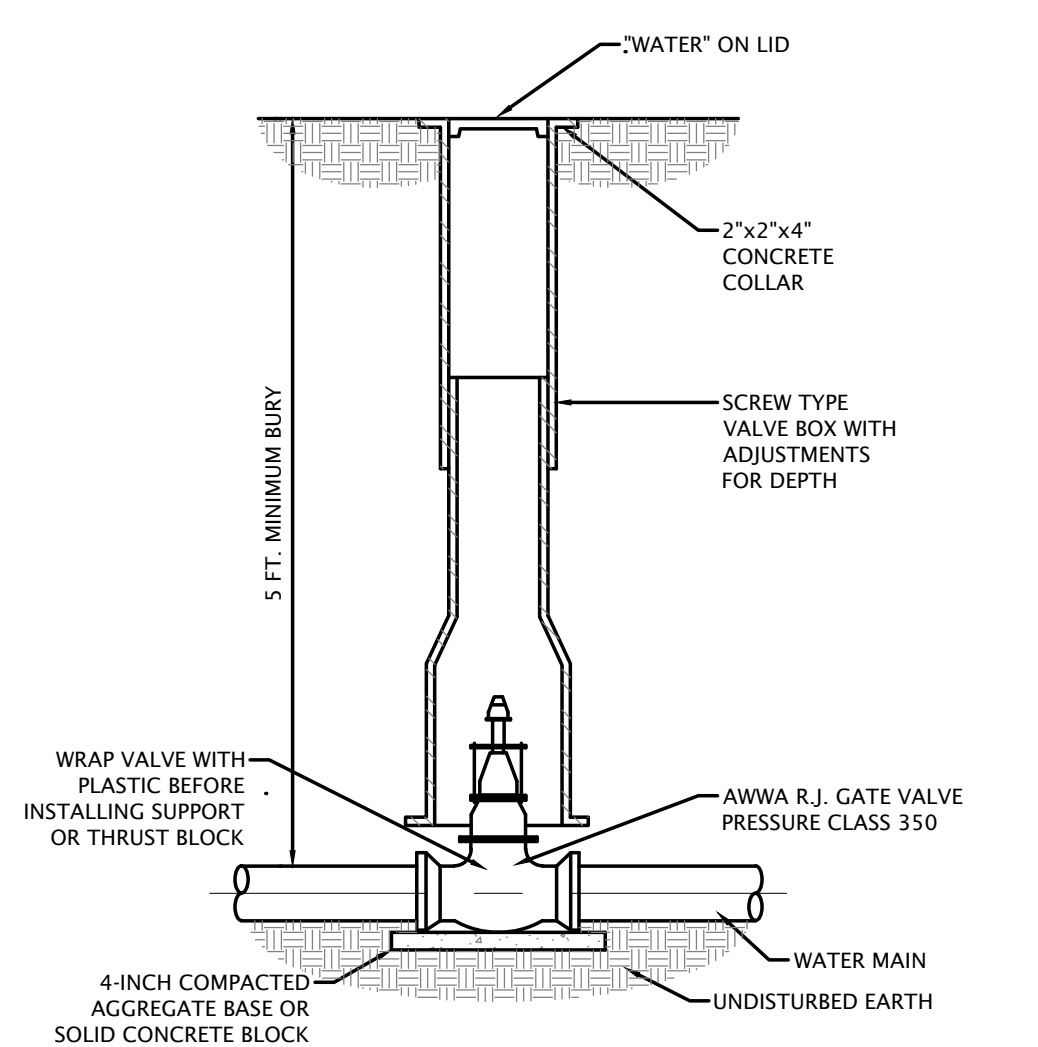
### RESTRAINED PIPE LENGTH TABLE



### SANITARY/STORM SEWER & WATERMAIN CROSSING (NOT TO SCALE)

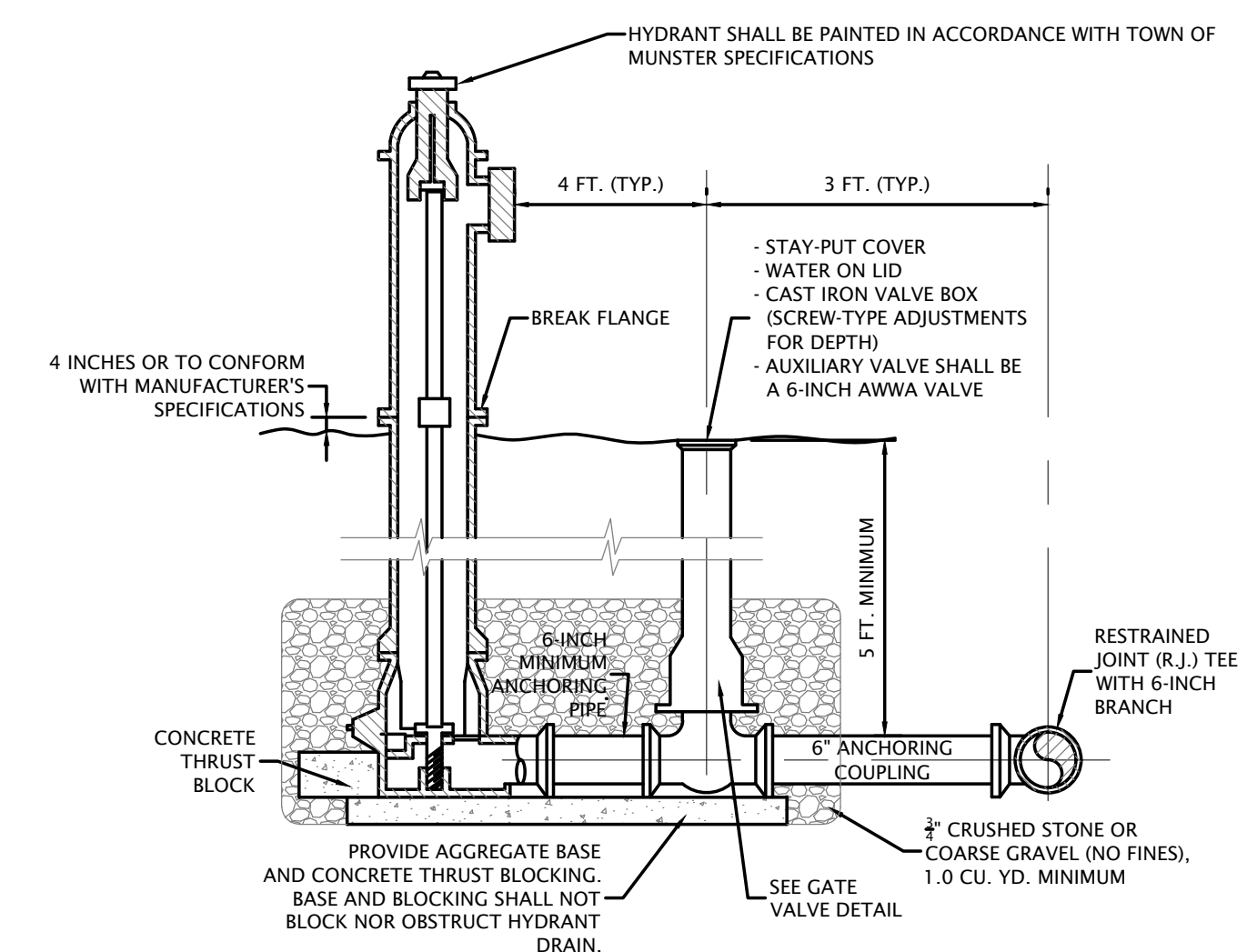


### TYPICAL B-BOX & TAP SERVICE PIPING (NOT TO SCALE)



### GATE VALVE & BOX (12-INCH OR SMALLER) (NOT TO SCALE)

USE IF DUCTILE IRON IS USED FOR WATER SERVICE



### FIRE HYDRANT ASSEMBLY (TYPE "A") (NOT TO SCALE)

#### NOTES:

- HYDRANT TYPE SHALL BE MUELLER SUPER CENTURION 250, 3-NOZZLE WITH 5" STORZ PUMPER NOZZLE CONNECTION.
- NEAREST PART OF HYDRANT NOT LESS THAN 1.5 FT. FROM BACK OF CURB.
- ALL JOINTS SHALL BE RESTRAINED BY RETAINER GLANDS OR RODDING, AS APPROVED BY THE ENGINEER.



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



08/30/2024

OSNI  
730 45TH AVE  
MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG

Construction Details

NO SCALE

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DESIGN BY  
DVG

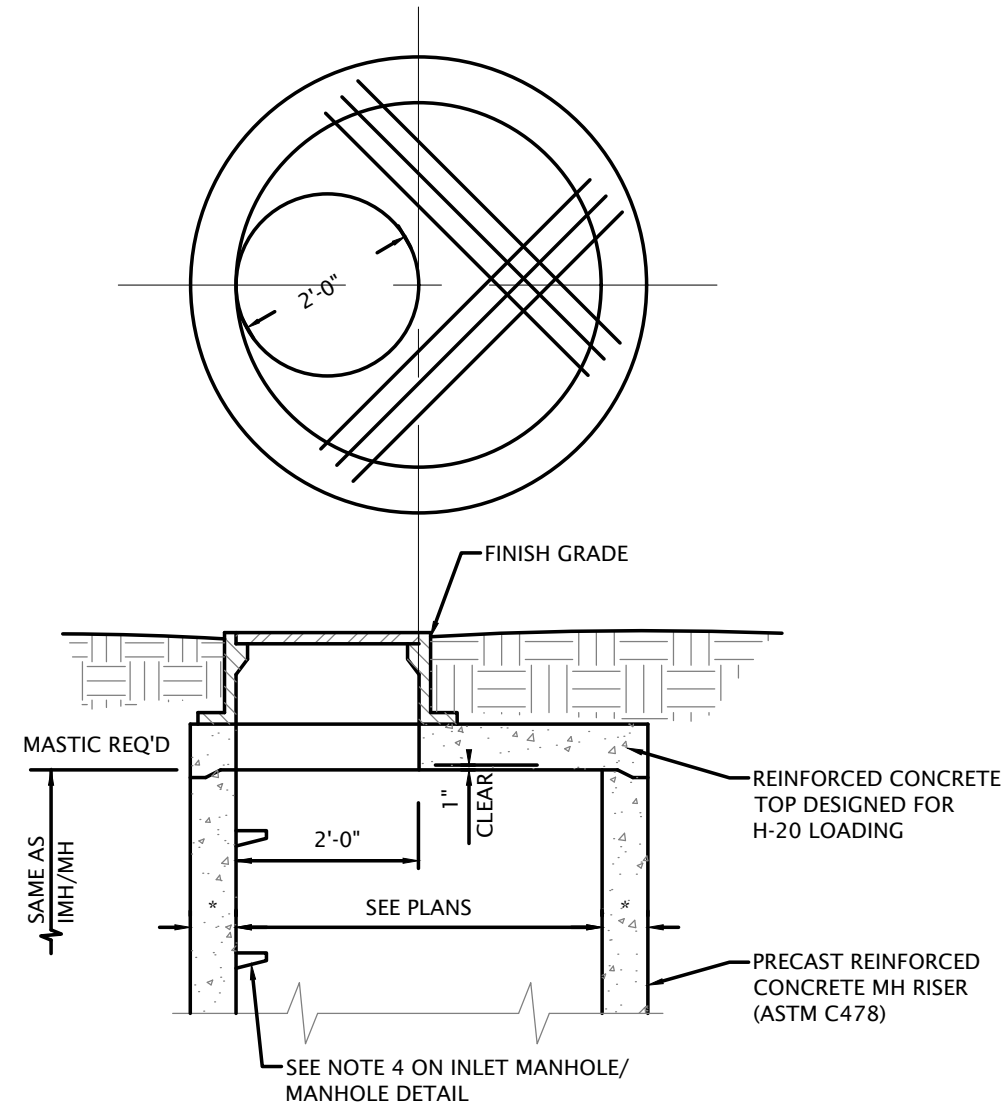
DATE  
10/12/23

PROJECT NO.  
23-0031

C202

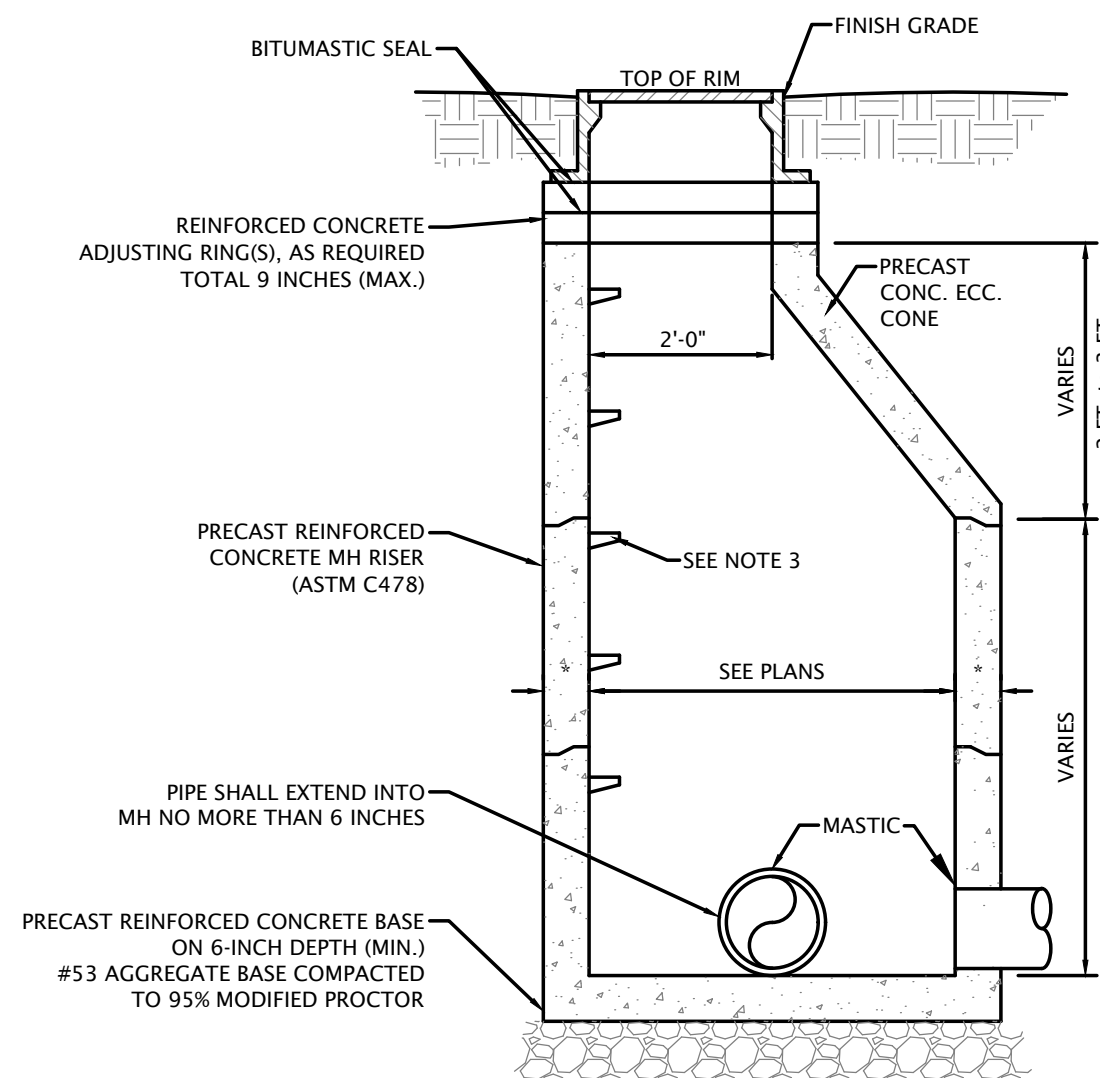
# STORM SEWER GENERAL NOTES

1. Footing drains, sump pump drains and outside drains shall discharge to the storm sewer where storm sewer is provided.
2. The maximum allowable rate of infiltration or exfiltration shall not exceed 100 gallons, per 24 hours per inch-diameter per mile of sewer pipe.
3. Storm sewers shall be as noted on the plans. If approved by the Engineer, an alternative storm sewer pipe 12 inches and larger can be reinforced concrete minimum Class III, wall B conforming to ASTM C-76; Corrugated High-Density Polyethylene Pipe with smooth interior (ADS N-12) conforming to AASHTO M-294; Corrugated Polypropylene Pipe with smooth interior conforming to AASHTO M-330 (ADS HP STORM); Corrugated High-Density Polyethylene Pipe with smooth interior (PRINSCO, GOLDFLO) conforming to AASHTO M-294 or other INDOT, Type 2 storm sewers as approved by the Engineer.
4. All HDPE storm sewer pipe shall be tested with a mandrel. Maximum deflection shall meet ASTM C1244-93 and Standard Test Method for Concrete Sewer Manholes 30 days after backfill, and should be performed without the aid of a mechanical pulling device. The deflection testing shall meet all requirements of IDEM section 327 IAC 3-6-19(a) (b) (c).



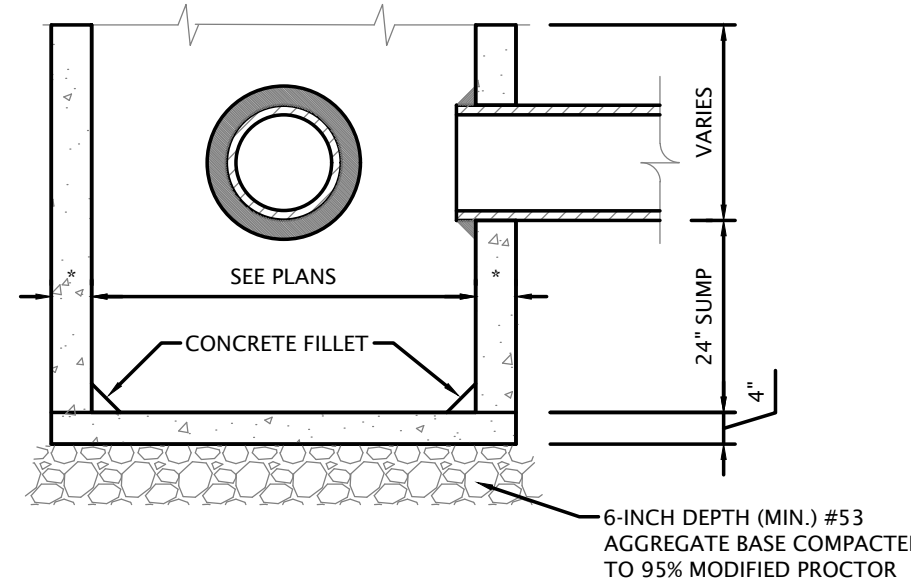
**MANHOLE TOP (FLAT TOP)**  
(NOT TO SCALE)

USE WHERE RESTRICTED HEAD ROOM WILL NOT ALLOW FOR TAPERED WALLS



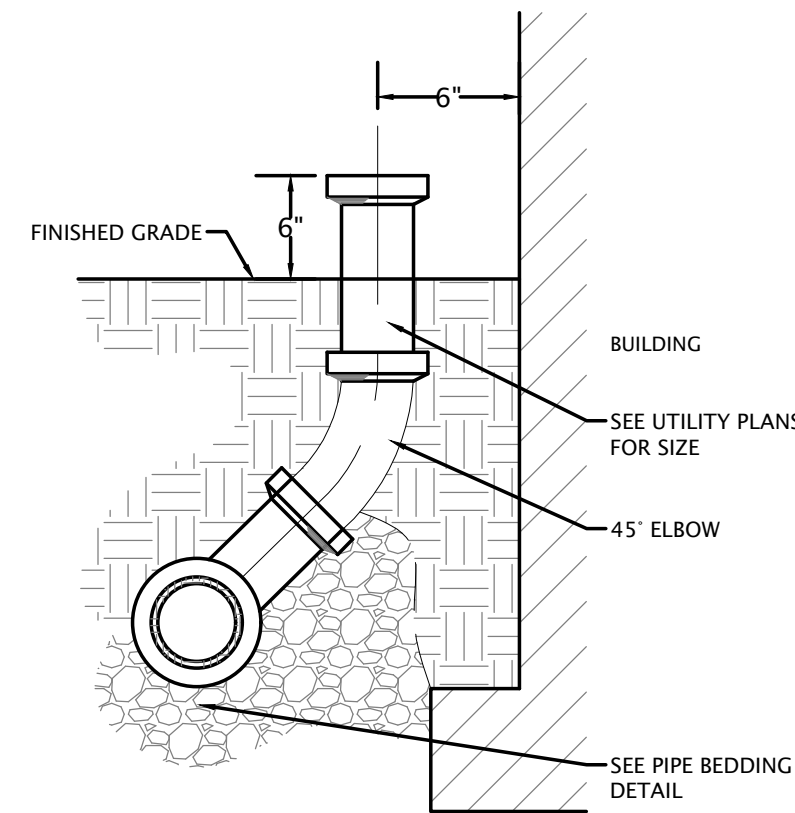
**INLET MANHOLE/MANHOLE**  
(NOT TO SCALE)

INLET MANHOLE (IMH) USES AN OPED LID - SEE STORM CALLOUT FOR FRAME & LID TYPE  
MANHOLE (MH) USES A CLOSED LID - SEE STORM CALLOUT FOR FRAME & LID TYPE.

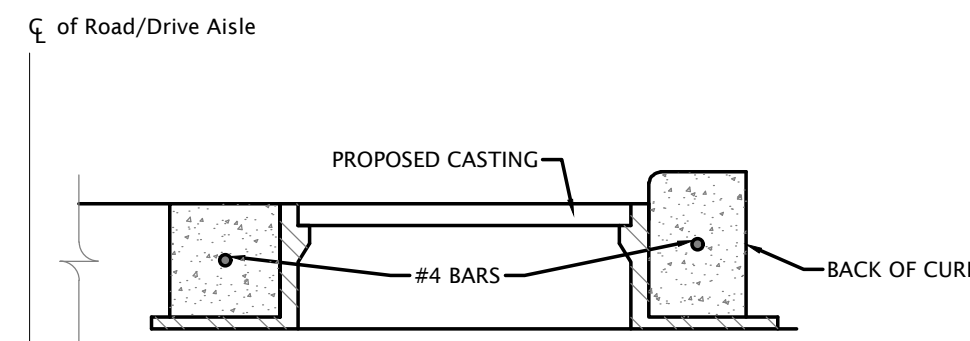


**CATCH BASIN**  
(NOT TO SCALE)

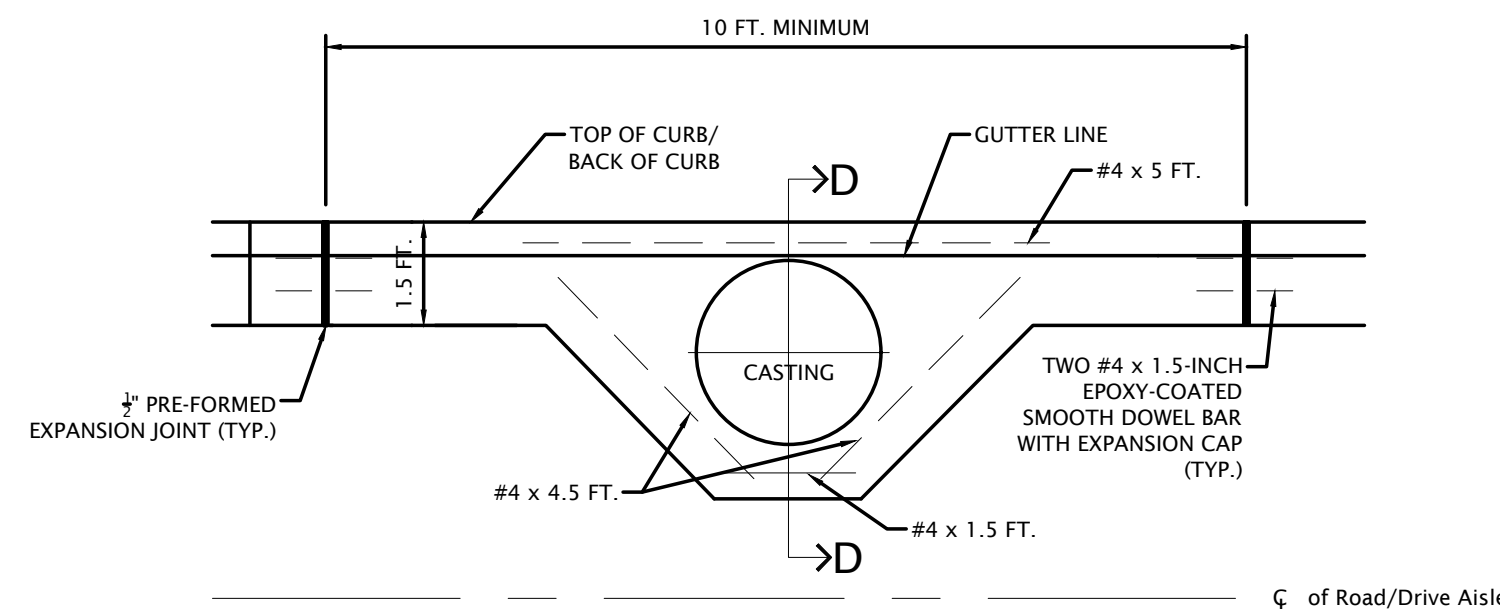
SEE INLET MANHOLE/MANHOLE DETAIL  
CATCH BASIN USES EITHER CLOSED OR OPEN LIDS - SEE UTILITY PLAN FOR FRAME & LID TYPE.



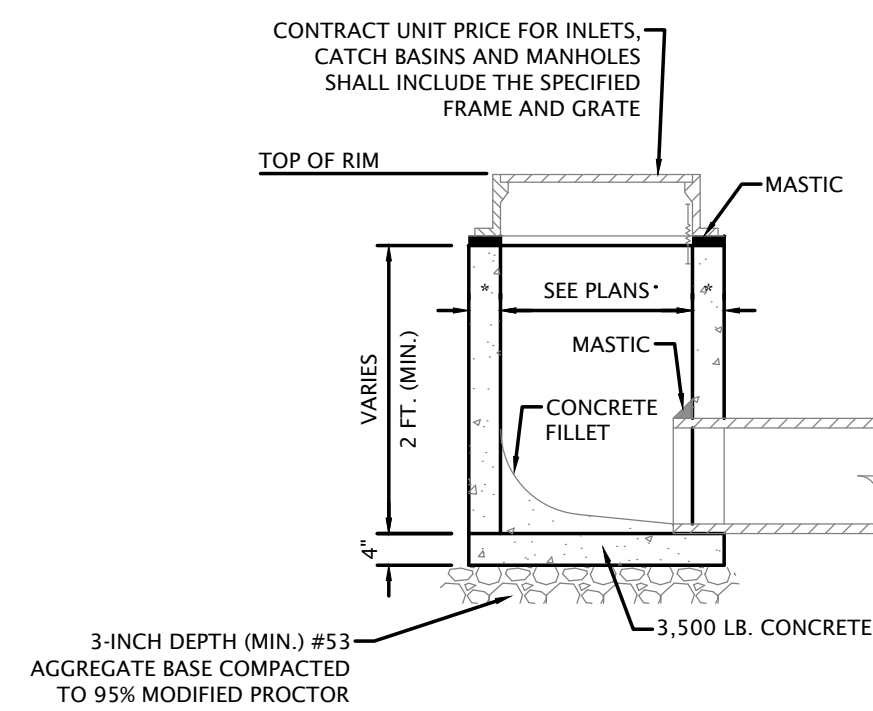
**DOWNSPOUT CONNECTION**  
(NOT TO SCALE)



**SECTION D-D**



**CURB & GUTTER AT STRUCTURE**  
(NOT TO SCALE)



**INLET**  
(NOT TO SCALE)

INLET USES OPEN LIDS - SEE UTILITY PLAN FOR FRAME & LID TYPE.

**Access Covers, Grates, and Frames**

**Manhole Frames and Covers**

**1020 FRAME & COVER**

Heavy duty  
Machined bearing surfaces

Options:  
Solid, vented or custom logo covers  
Special lettered covers  
Watertite assembly  
Adjusting risers  
Gasket steel covers  
Stackable frames

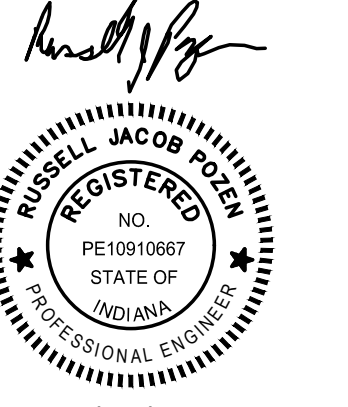
Type A solid cover illustrated

Available Frames for 1020 Covers and Grates	Catalog Number	Base Flange Diameter	Frame Height
Type H Oval Grate	1027	34	4
Type M Oval Grate	1028*	32 1/2	4
Type P Curved Grate	1077	30	4
Type M2 Flat Bar Grate	2090	34	4
Type M2 Flat Bar Grate	2980***	34TF	4 1/2
Type M2 Flat Bar Grate	1020	34	8
Type M2 Flat Bar Grate	1022-1	34	7
Type M2 Flat Bar Grate	1022-2	34	7
Type M2 Flat Bar Grate	1022-3	30	7
Type M2 Flat Bar Grate	1070**	30	7
Type M2 Flat Bar Grate	1500	34	8
Type M2 Flat Bar Grate	1051	34	8
Type M2 Flat Bar Grate	1050Z1	34	8
Type M2 Flat Bar Grate	1050	30	8

Note: All dimensions are in inches.  
\*Special lock bar and nut ring is available.  
\*\*Special non-sliping texture.  
\*\*\*Frame is reversible, can be installed as top flange.



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MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG  
Construction Details

NO SCALE

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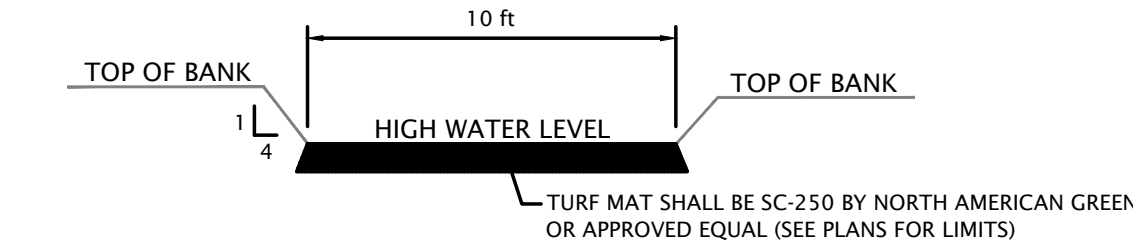
DESIGN BY: DVG DATE: 10/12/23

PROJECT NO. 23-0031

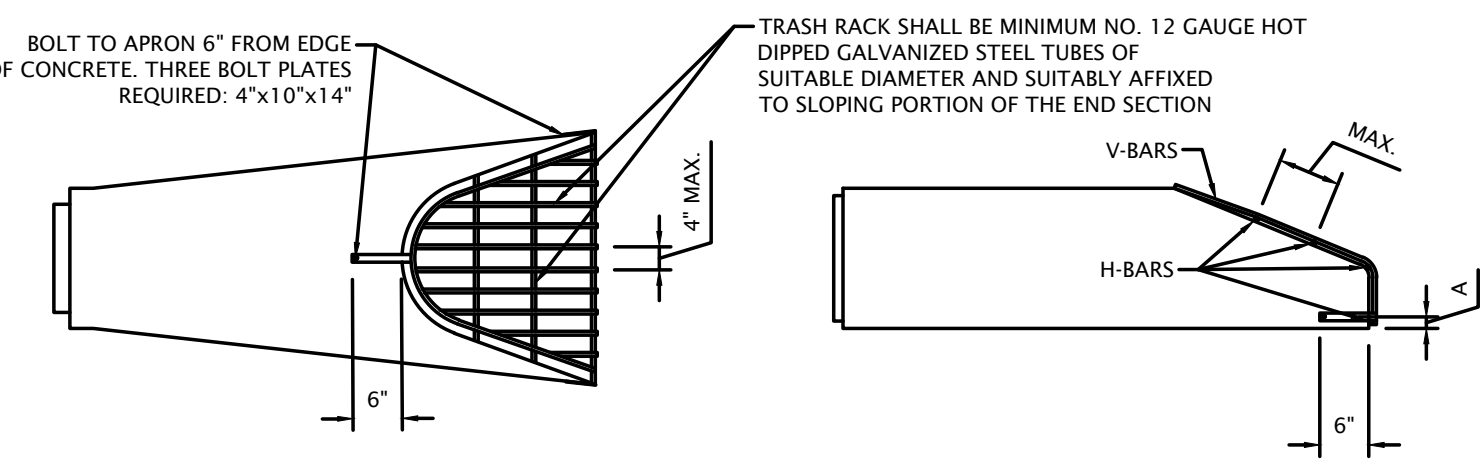
C203

**STORM SEWER GENERAL NOTES**

1. Footing drains, sump pump drains and outside drains shall discharge to the storm sewer where storm sewer is provided.
2. The maximum allowable rate of infiltration or exfiltration shall not exceed 100 gallons, per 24 hours per inch-diameter per mile of sewer pipe.
3. Storm sewers shall be as noted on the plans. If approved by the Engineer, an alternative storm sewer pipe 12 inches and larger can be reinforced concrete minimum Class III, wall B conforming to ASTM C-76; Corrugated High-Density Polyethylene Pipe with smooth interior (ADS N-12) conforming to AASHTO M-294; Corrugated Polypropylene Pipe with smooth interior conforming to AASHTO M-330 (ADS HP STORM); Corrugated High-Density Polyethylene Pipe with smooth interior (PRINSCO, GOLDFLO) conforming to AASHTO M-294 or other INDOT, Type 2 storm sewers as approved by the Engineer.
4. All HDPE storm sewer pipe shall be tested with a mandrel. Maximum deflection shall meet ASTM C1244-93 and Standard Test Method for Concrete Sewer Manholes 30 days after backfill, and should be performed without the aid of a mechanical pulling device. The deflection testing shall meet all requirements of IDEM section 327 IAC 3-6-19(a) (b) (c).

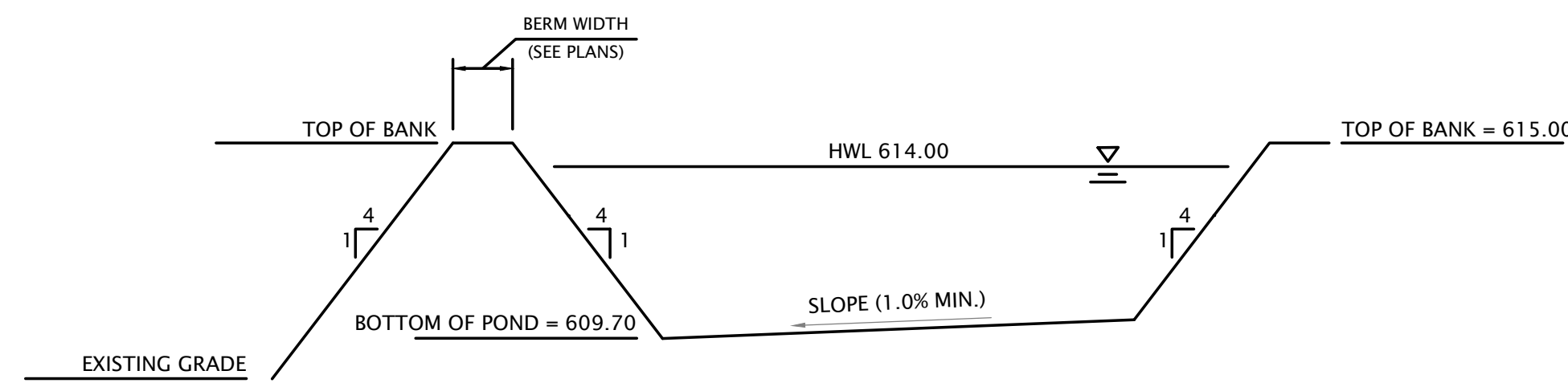


**POND OVERFLOW WEIR TREATMENT**  
(NOT TO SCALE)

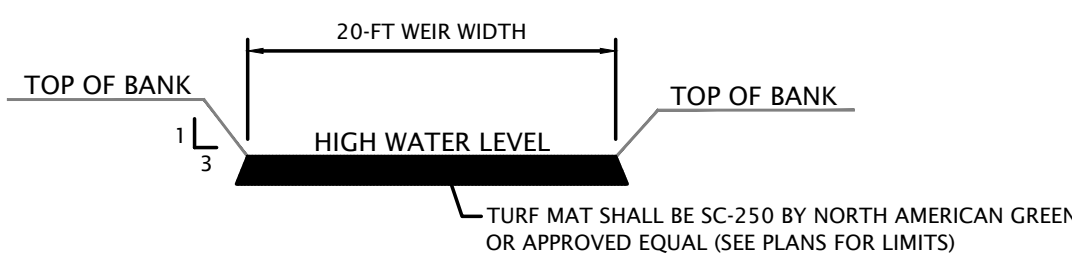


- NOTES:**
1. BARS AND PLATES ARE HOT-ROLLED STEEL.
  2. BARS, PLATES AND PIPES ARE FINISHED WITH TWO (2) COATS OF ALUMINUM PAINT.
  3. BOLTS ARE GALVANIZED.

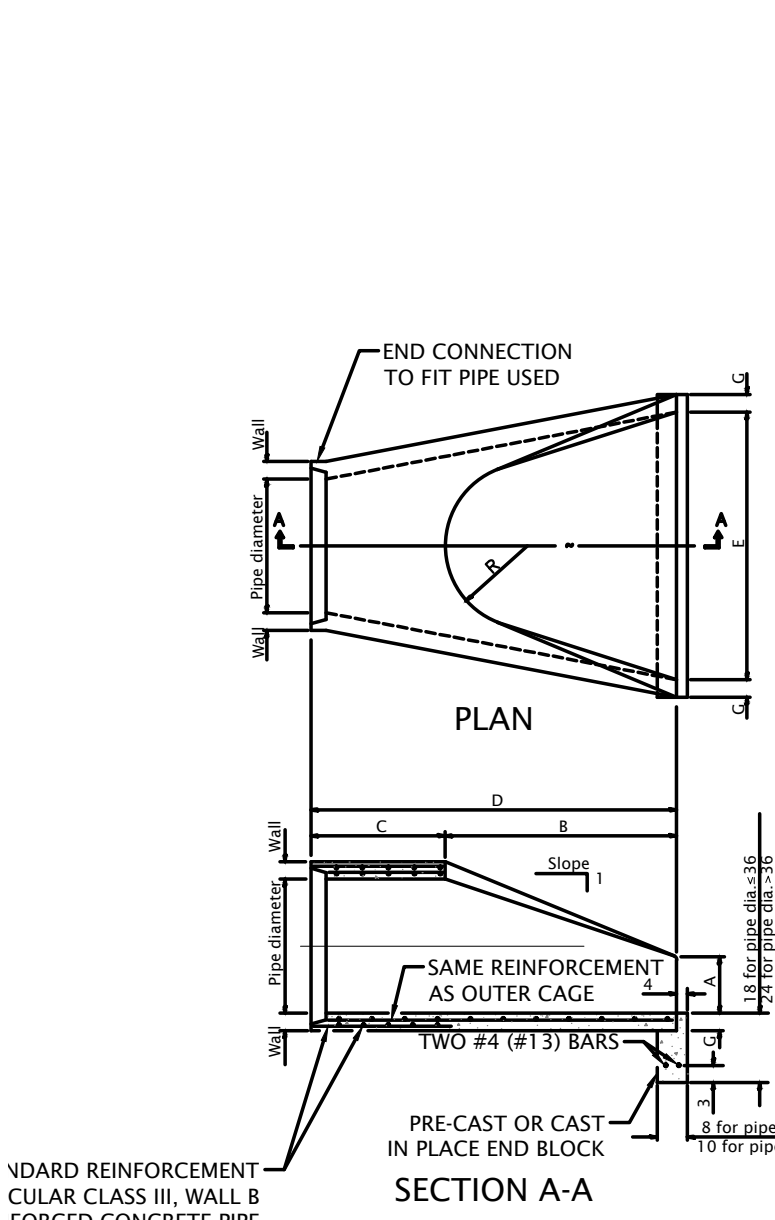
APRON SIZE	V-BAR SIZE (DIA.)	H-BAR SIZE (DIA.)	NO. OF H-BARS	BOLT DIA.	"A" DIM
12	1/2	5/8	3	1/2	4
15	1/2	5/8	4	1/2	4 1/2
18	1/2	5/8	4	1/2	4 1/2
21	1/2	5/8	4	1/2	3
24	5/8	3/4	4	1/2	3
21	5/8	3/4	4	1/2	5 1/2
30	5/8	3/4	4	1/2	5 1/2
36	3/4	3	4	3/4	4
42	3/4	3	4	3/4	4
48	3/4	3	3	3/4	8
24	3/4	1 1/2	3	3/4	4
30	3/4	1 1/2	3	3/4	4
66	3/4	1 1/2	3	3/4	4
12	3/4	1 1/2	3	3/4	3
84	3/4	1 1/2	3	3/4	10
50	3/4	1 1/2	3	3/4	10



**DRY DETENTION POND TYPICAL CROSS SECTION**  
(NOT TO SCALE)

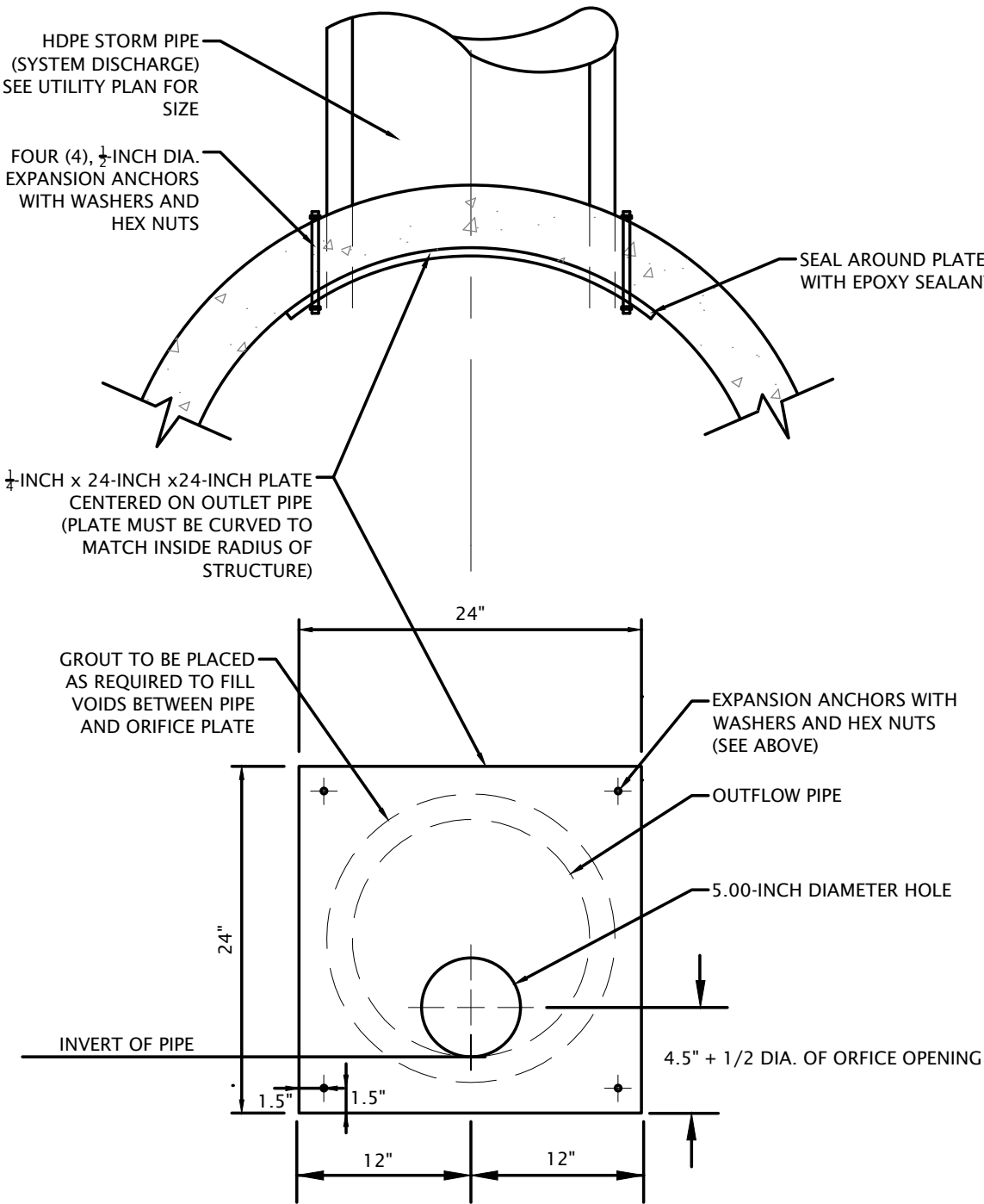


**WEIR CROSS SECTION**  
**POND OVERFLOW WEIR**  
(NOT TO SCALE)



**CONCRETE PIPE END SECTION**  
(NOT TO SCALE)

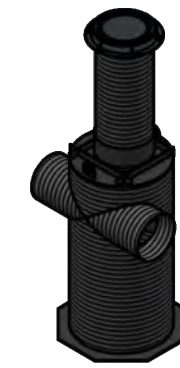
IF PVC/CPP PIPE IS USED, CONTRACTOR SHALL USE CONTECH CORRUGATED METAL PIPE (CMP) END SECTION WITH BANDING IN LIEU OF CONCRETE END SECTION SPECIFIED ABOVE.



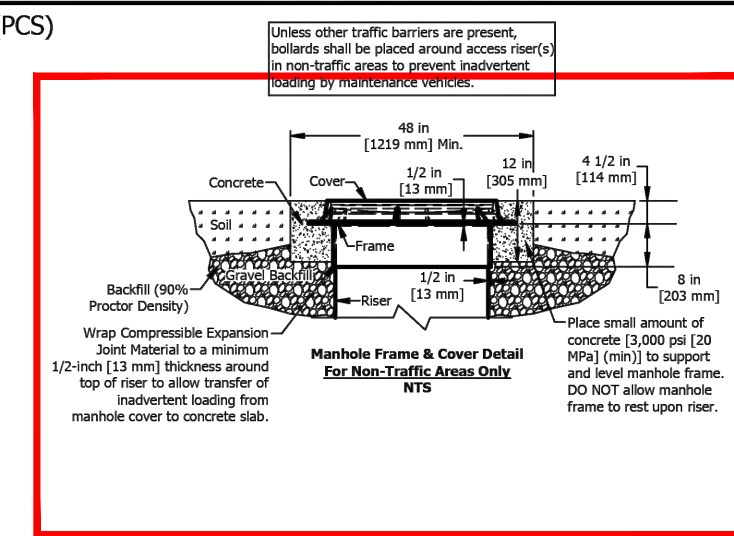
**RESTRICTOR-ORIFICE PLATE**  
(NOT TO SCALE)

STRINGENT MAINTENANCE OF RESTRICTOR SHALL BE NECESSARY BY OWNER

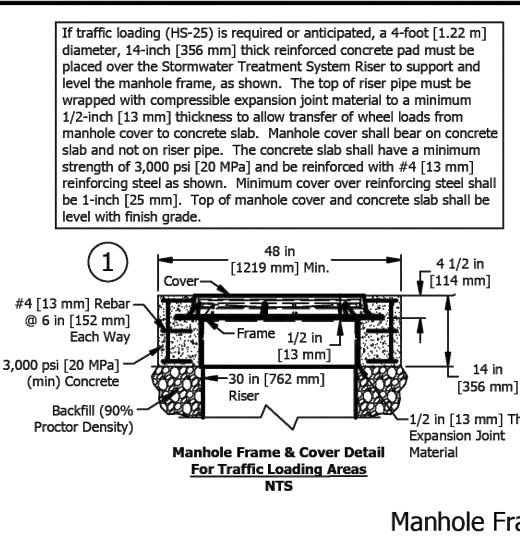
**Aqua-Swirl® Polymer Coated Steel (PCS) Stormwater Treatment System**



**Projected View**  
**SCALE 1:80**

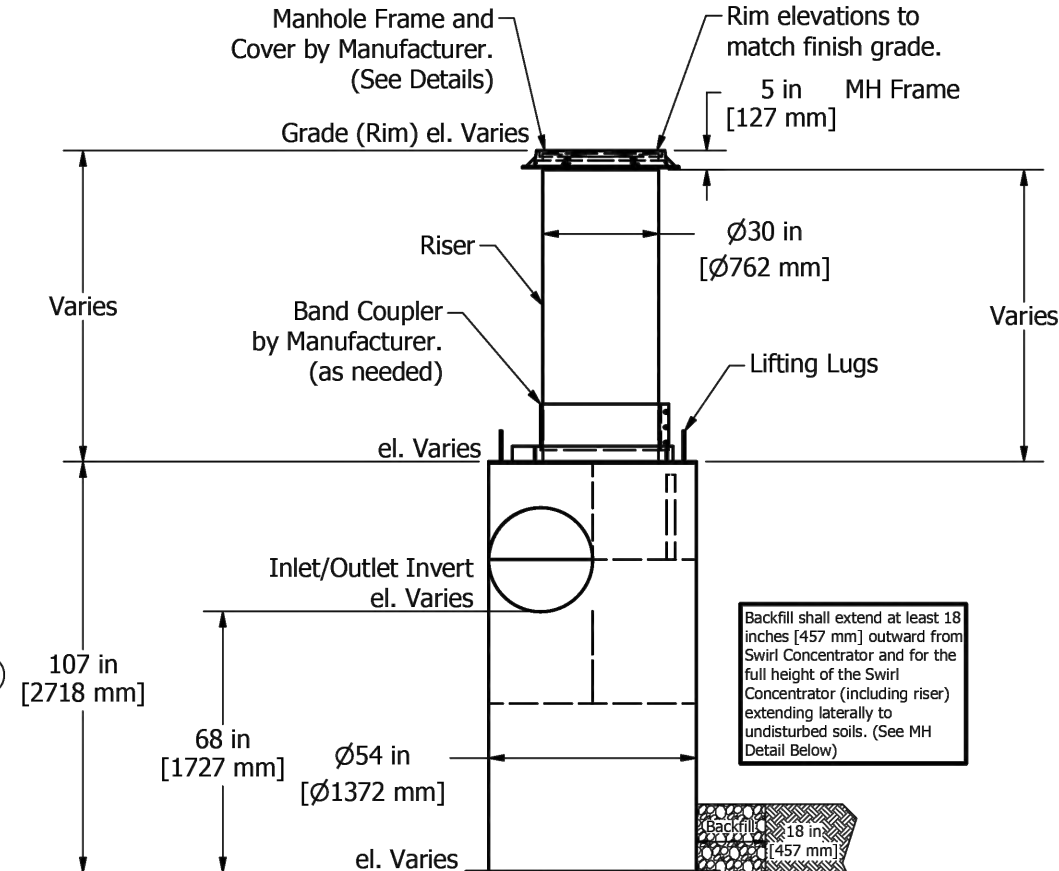


**Plan View**  
**SCALE 1:40**



Please see accompanied Aqua-Swirl® specification notes. See Site Plan for actual system orientation. Approximate dry (pick) weight: 2000 lbs [900 kg].

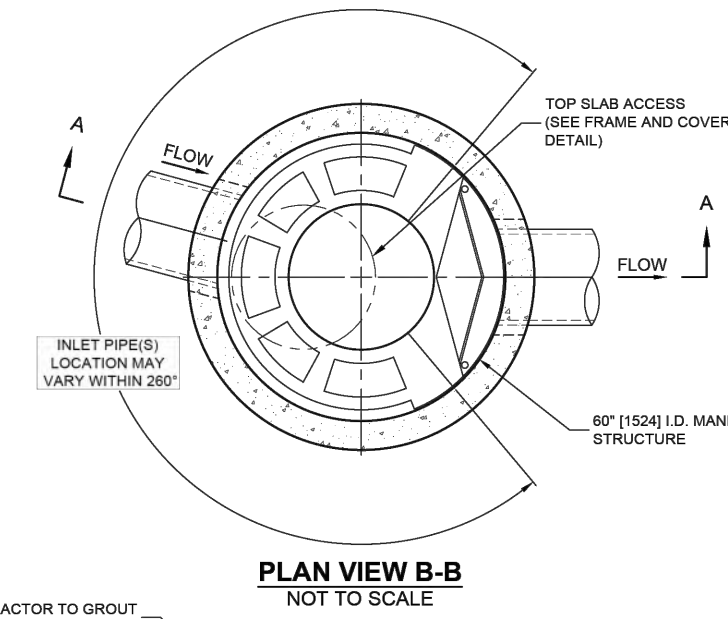
1. As an alternative, 42 in [1067 mm] diameter, HS-20/25 rated precast concrete rings may be substituted. 14 in [356 mm] thickness must be maintained.
2. AS-4 BYP inlet/outlet pipe size ranges from 12 in [305 mm] to 27 in [686 mm].
3. AS-4 chamber height may vary from 92 in [2337 mm] to 107 in [2718 mm], depending on inlet/outlet pipe size.
4. Orientation may vary from a minimum of 90° to a maximum of 180°.



**Elevation View**  
**SCALE 1:40**

Structure #	AS-4 STD	Revised	Rev. Date
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		
2733	11/11/2017		

**AquaShield®**  
**Aqua-Swirl® Concentrator**  
**AS-4 BYP CW**  
**Standard Detail**  
U.S. Patent Nos. 6,524,773 and other Patents Pending



**PLAN VIEW B-B**  
**NOT TO SCALE**

**CASCADE SEPARATOR DESIGN NOTES**

THE STANDARD CS-5 CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE AVAILABLE AND ARE LISTED BELOW. SOME CONFIGURATIONS MAY BE COMBINED TO SUIT SITE REQUIREMENTS.

**CONFIGURATION DESCRIPTION**

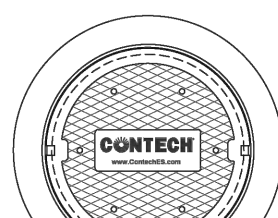
GRATED INLET ONLY (NO INLET PIPE)
GRATED INLET WITH INLET PIPE OR PIPES
CURB INLET ONLY (NO INLET PIPE)
CURB INLET WITH INLET PIPE OR PIPES

**SITE SPECIFIC DATA REQUIREMENTS**

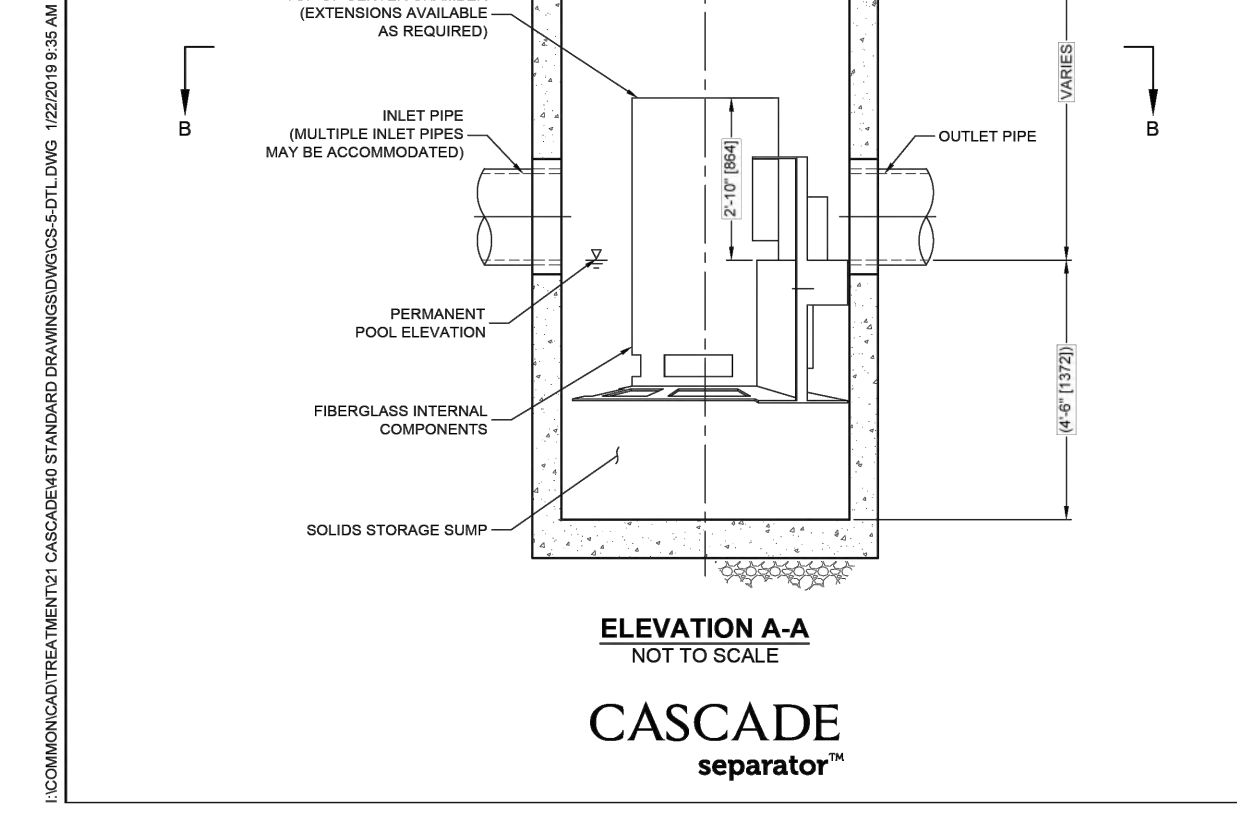
STRUCTURE ID	WATER QUALITY FLOW RATE (GAL/S)	PEAK FLOW RATE (GAL/S)	RETURN PERIOD OF PEAK FLOW (YRS)	RIM ELEVATION

PIPE DATA	INVERT	MATERIAL	DIAMETER
INLET PIPE 1			
INLET PIPE 2			
OUTLET PIPE			

NOTES / SPECIAL REQUIREMENTS:



**FRAME AND COVER**  
**(DIAMETER VARIES)**  
**NOT TO SCALE**



**ELEVATION A-A**  
**NOT TO SCALE**

**CASCADE separator™**

(NOT TO SCALE) **CONTECH ENGINEERED SOLUTIONS LLC**  
3000 Centre Pointe Dr., Suite 100, West Chester, OH 45380  
937-336-1122 513-645-7500 513-645-7893 FAX

**CS-5 CASCADE SEPARATOR STANDARD DETAIL**

**NOTES:**

1. AQUA-SHIELD SPECIFICATIONS shall be considered part of this plan set.
2. Contact Sales Representative for product purchase:  
Stacy Tobin  
Product Consultant  
Entel, Inc  
734-358-4575  
stobin@entel-group.com
3. CONTRACTOR MAY USE AQUA-SHIELD, CONTECH OR OTHER EQUAL HYDRODYNAMIC SEPARATOR PRODUCT/CONFIGURATION, BUT SHALL BE APPROVED BY ENGINEER OF RECORD AND TOWN OF MUNSTER SURVEYOR'S OFFICE.

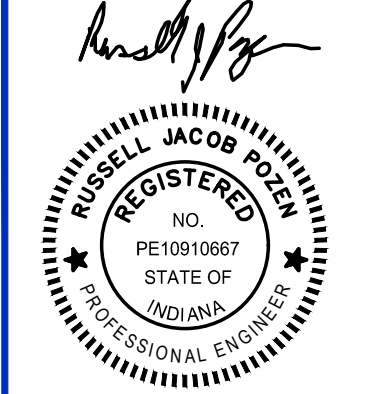
**DESIGN NOTES:**

HYDRODYNAMIC SEPARATORS	WQV FLOW	10YR FLOW	CONTECH®	AQUA-SHIELD®
HDS#1B	1.65 CFS	6.89 CFS	CSS	AS-4 BYP CW

\*DESIGN FLOWS SHOWN ASSUME FUTURE ADDITIONAL PARKING (IMPERVIOUS AREA)  
\*AQUA-SHIELD HYDRODYNAMIC SEPARATOR WERE SIZED BY WQV FLOW, Q=CIA, Q= 0.70\*1^2.36 = 1.65 cfs  
\*CONTECH HYDRODYNAMIC SEPARATOR WERE SIZED BY 10 YR FLOW  
\*ALTERNATE CONFIGURATION USING A BYPASS STRUCTURE MAY CHANGE THE SIZE OF THE HYDRODYNAMIC SEPARATOR.



1155 Troutwine Road  
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P: (219) 662-7710  
F: (219) 662-2740  
www.dvgteam.com



08/30/2024

**OSNI**  
730 45TH AVE  
MUNSTER, IN 46321

**REVISIONS AND NOTES:**

DATE:	REVISIONS AND NOTES:

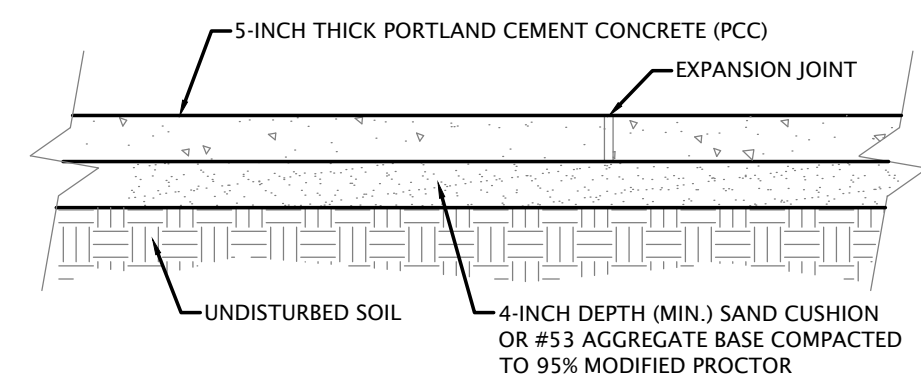
**OSNI MEDICAL OFFICE BLDG**  
Construction Details

NO SCALE

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DESIGN BY DATE  
DVG 10/12/23

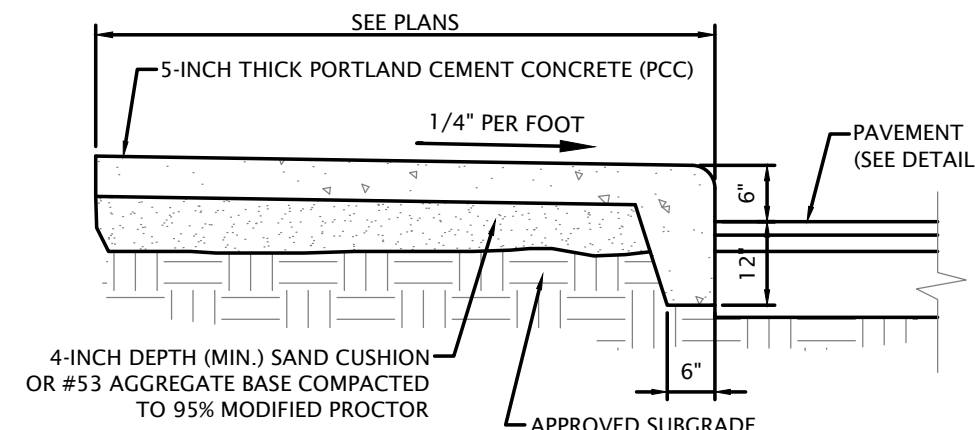
PROJECT NO.  
23-0031

**C204**

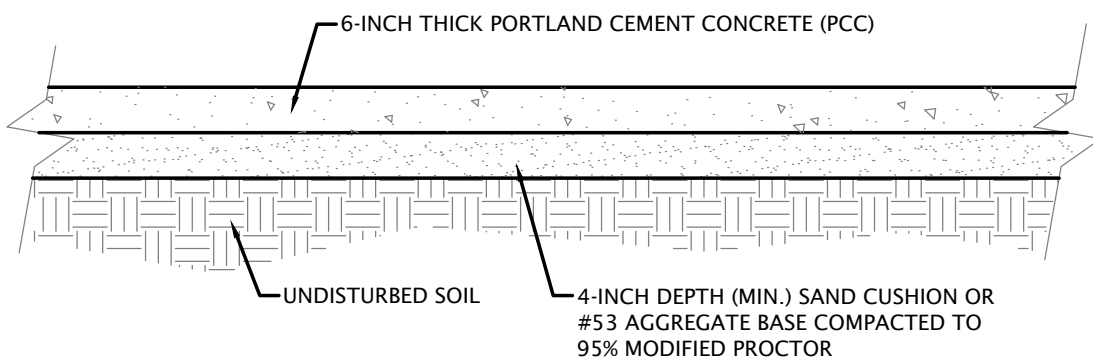


**SIDEWALK**  
(NOT TO SCALE)

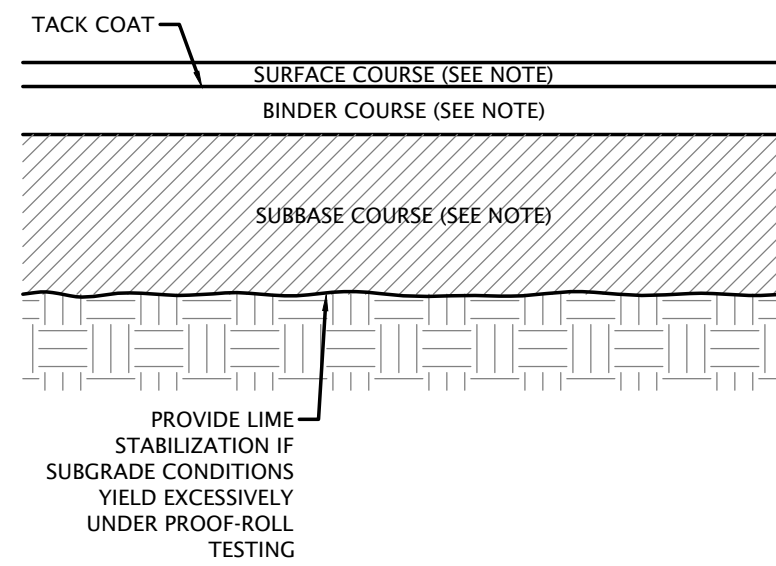
1/2-INCH WIDE CONSTRUCTION TOOLED JOINT SPACED AT A DISTANCE EQUAL TO THE WIDTH



**MONOLITHIC CURB & SIDEWALK**  
(NOT TO SCALE)



**TRASH ENCLOSURE PAD**  
(NOT TO SCALE)

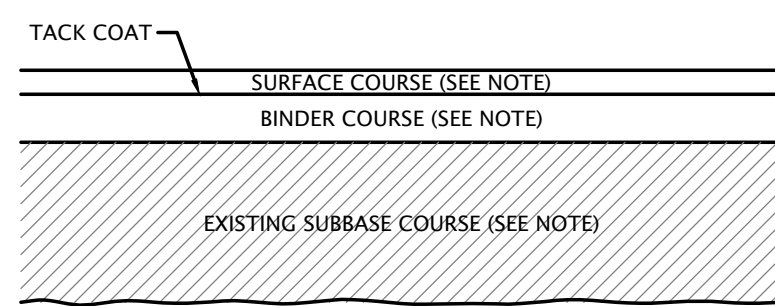


**SURFACE COURSE**  
1.5 INCHES  
INDOT HMA TYPE B SURFACE, 9.5mm

**BINDER COURSE**  
2.0 INCHES  
INDOT HMA TYPE B INTERMEDIATE, 19.0mm

**SUBBASE COURSE**  
9.0 INCHES OF #53 COMPACTED LIMESTONE AGGREGATE ON APPROVED PROOF-ROLLED SUBGRADE

**ASPHALT PAVEMENT CROSS SECTION**  
(NOT TO SCALE)



**SURFACE COURSE**  
1.5 INCHES  
INDOT HMA TYPE B SURFACE, 9.5mm

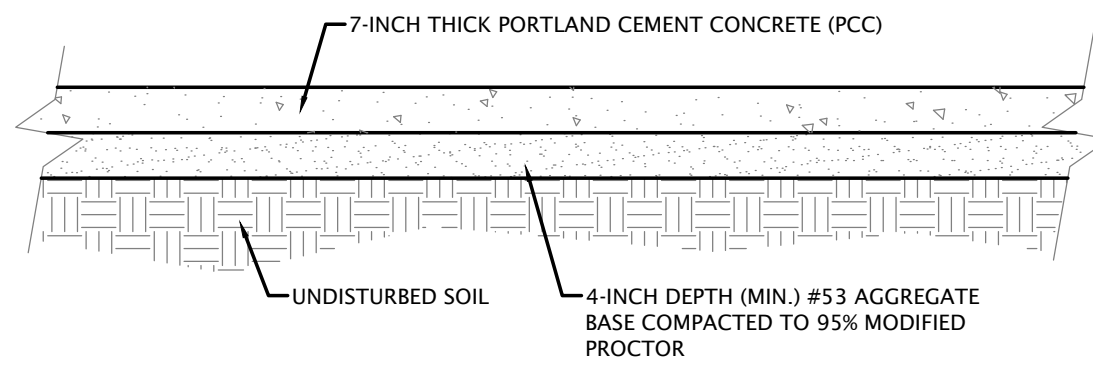
**BINDER COURSE**  
2.0 INCHES & VARIES  
INDOT HMA TYPE B INTERMEDIATE, 19.0mm (ADDITIONAL AS REQUIRED TO MEET PROPOSED GRADE)

**EXISTING SUBBASE COURSE**  
COMPACT EXISTING AGGREGATE

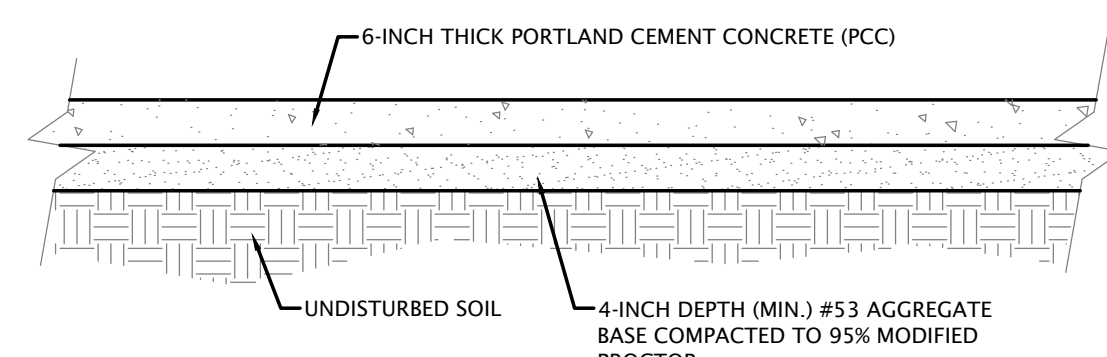
**SURFACE & BINDER COURSE DETAIL**  
(NOT TO SCALE)

**CONCRETE FLAT WORK NOTES:**

1. PROVIDE 1/2-INCH EXPANSION JOINT CONFORMING TO ASTM D-1751 ALONG BACK OF CURBS, DRIVEWAYS, STEPS, WALLS AND ACROSS THE SIDEWALK AT INTERVALS NOT TO EXCEED 40 FEET.
2. EXTEND EXPANSION JOINT MATERIAL FULL DEPTH OF THE SLAB.
3. PROVIDE TOOLED "V" GROOVE CONTROL JOINT SPACED AT A DISTANCE EQUAL TO THE WIDTH OF THE WALK BUT NOT OVER 10 FEET APART, OR AS SPECIFIED ON THE SITE PLAN.
4. CONCRETE SHALL BE CLASS "A" & 4,000 PSI IN 28 DAYS, MEETING THE REQUIREMENTS OF THE MOST RECENT INDOT STANDARD SPECIFICATIONS MANUAL.
5. ALL CONCRETE FLAT WORK SHALL BE REINFORCED WIRE MESH 6"x6"x 10/10 GAUGE.



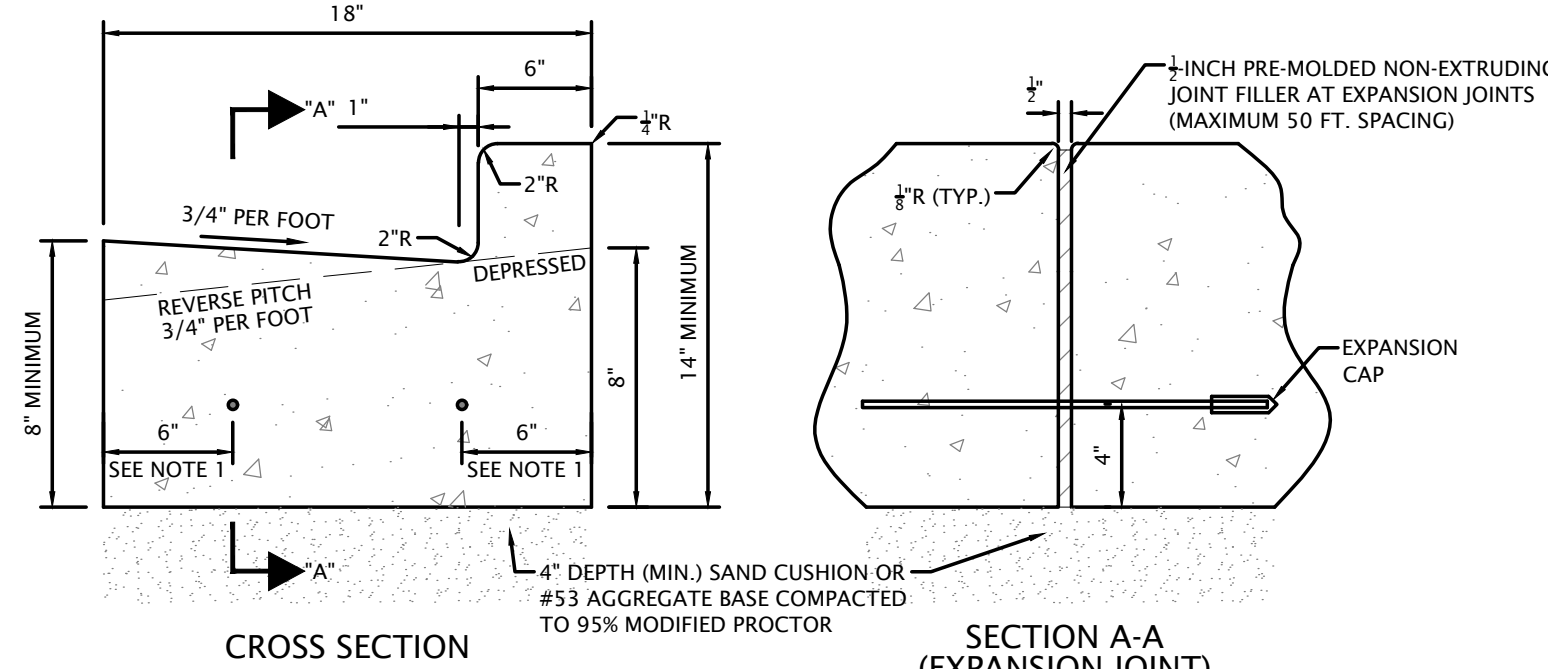
**THICKENED SIDEWALK**  
(NOT TO SCALE)



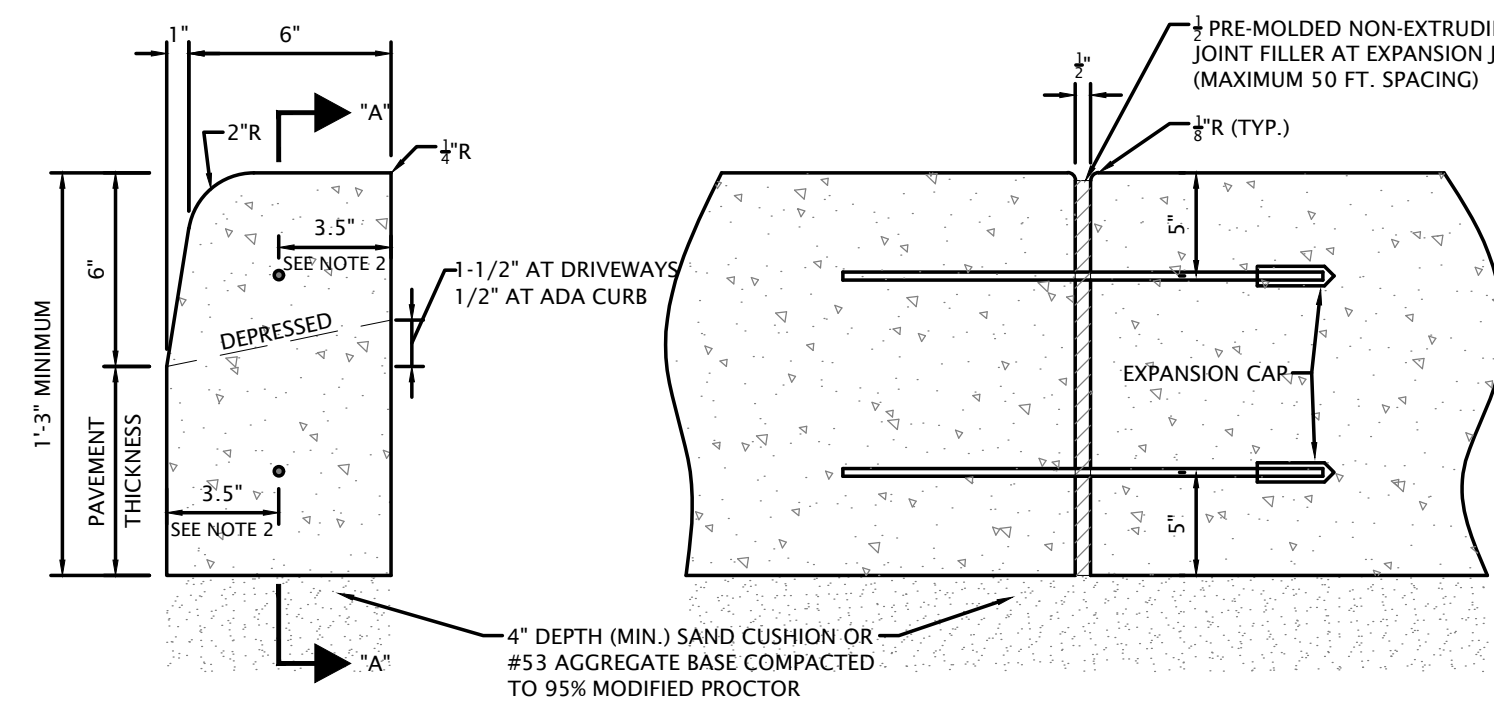
**CONCRETE PAVEMENT (DRIVEWAY APRON)**  
(NOT TO SCALE)

**CONCRETE CURB & GUTTER NOTES**

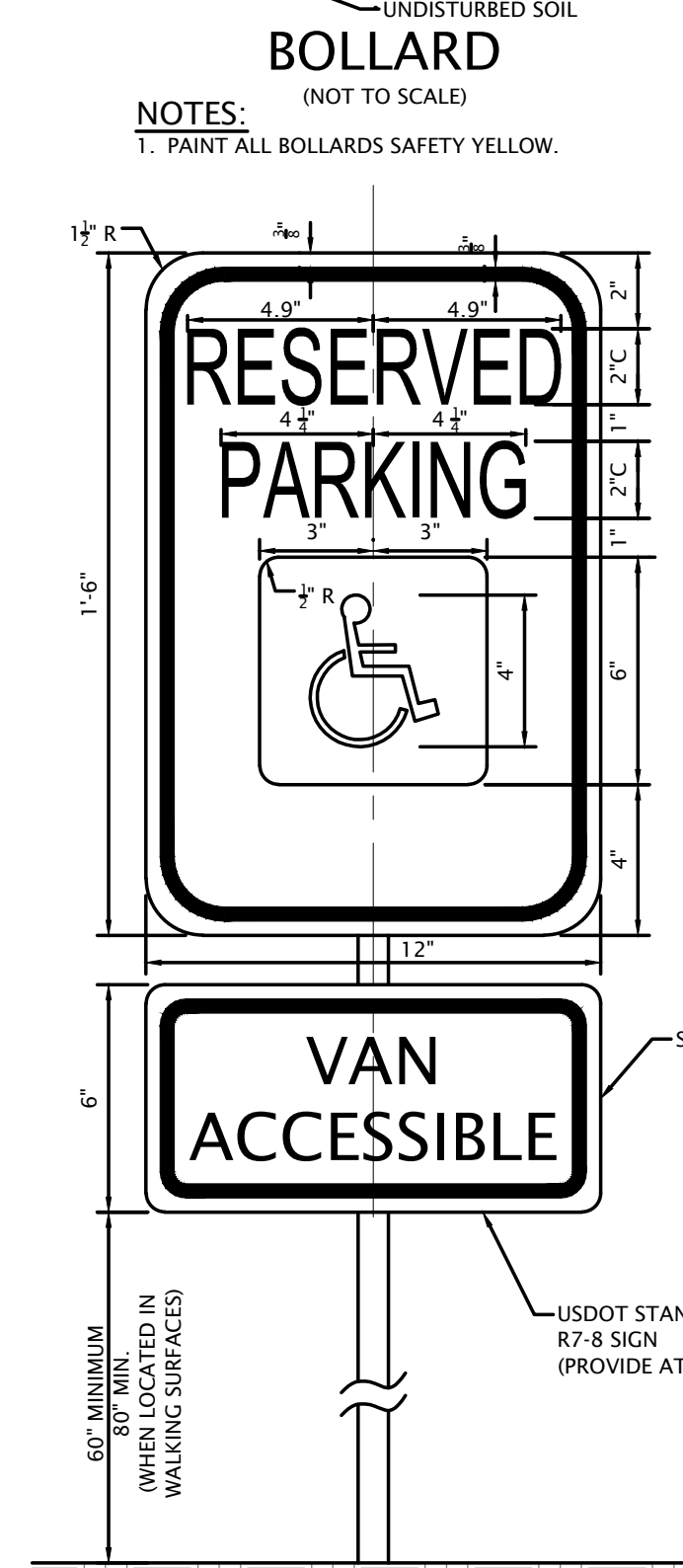
1. PROVIDE TWO #4 BARS (10 FT. LONG) CENTERED IN EACH UTILITY TRENCH.
2. PROVIDE TWO #6 SMOOTH BARS (30-INCH LONG) WITH EXPANSION CAPS AT EACH EXPANSION JOINT.
3. COST OF BARS SHALL BE INCLUDED IN THE UNIT PRICE (PER LINEAR FOOT) FOR CURB AND GUTTER.
4. CONTRACTION JOINTS SHALL BE PLACED AT EQUAL SPACES BETWEEN NORMAL EXPANSION JOINTS.
5. 1/2" EXPANSION JOINTS AT 40 FEET MAXIMUM.
6. CONTRACTION JOINTS AT 20 FEET MAXIMUM.
7. CONTRACTION JOINTS SHALL BE SAW CUT IN THE UPPER 1/2 OF CURB AND GUTTER WITHIN 7 DAYS OF PLACEMENT.
8. SAW CUT EXISTING CURB PRIOR TO REMOVAL. PROVIDE NEAT AND CLEAN FACE TO ABUT NEW CURB.
9. USE 4,500 (MIN.) PSI CONCRETE.
10. DEPRESS DRIVEWAYS, AS REQUIRED.



**BARRIER CURB & GUTTER**  
(NOT TO SCALE)

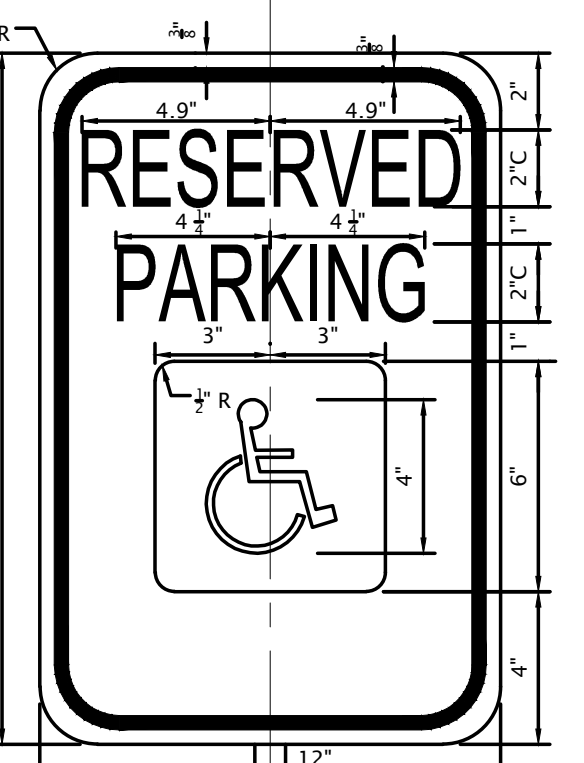


**6-INCH BARRIER CURB**  
(NOT TO SCALE)



**BOLLARD**  
(NOT TO SCALE)

NOTES:  
1. PAINT ALL BOLLARDS SAFETY YELLOW.

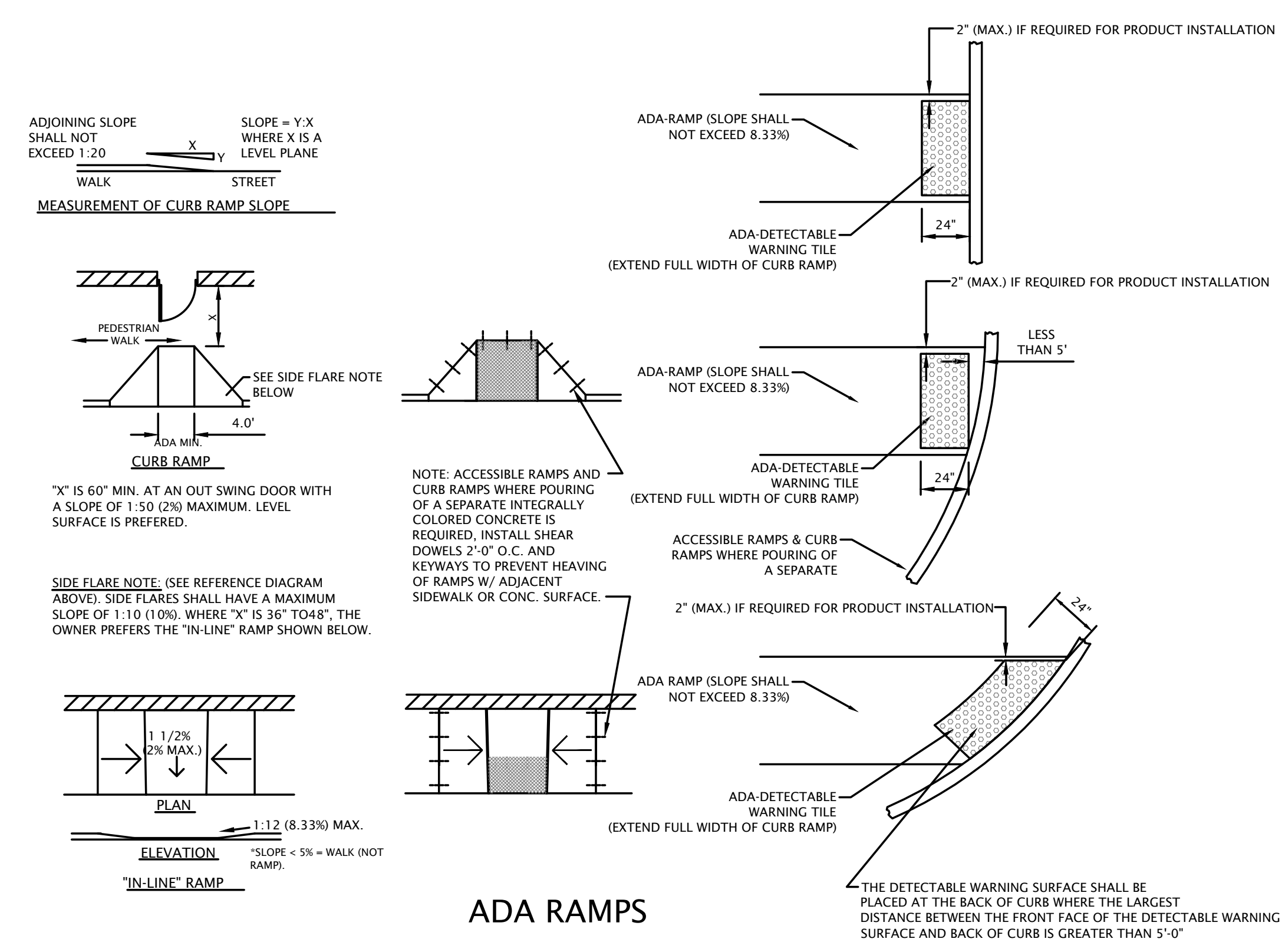


**VAN ACCESSIBLE**  
SEE NOTE BELOW

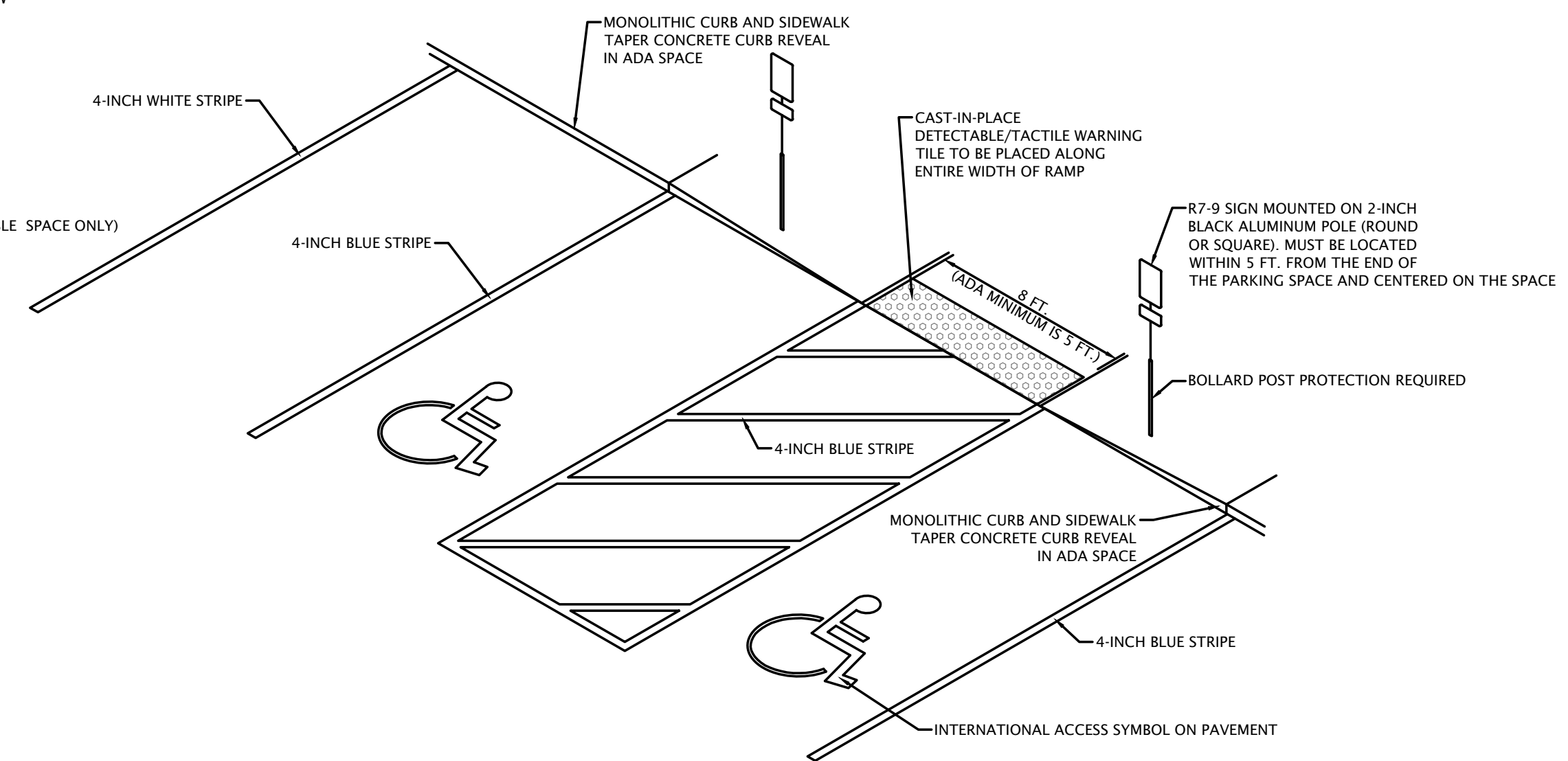
INDOT STANDARD R7-8 SIGN (PROVIDE AT VAN ACCESSIBLE SPACE ONLY)

**NOTE ON R7-8 SIGN:**  
THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE SIGN MUST BE SUPPLEMENTED WITH A "VAN ACCESSIBLE" SIGN AS APPLICABLE AND/OR AMOUNT OF THE FINE FOR ILLEGALLY PARKING IN THE RESERVED SPACE(S) A MUNICIPALITY MAY IMPOSE. CONFIRM WITH LOCAL REGULATIONS.

**ADA SIGNAGE**



**ADA RAMPS**



**TYPICAL ADA PARKING SPACE PLAN**

**ADA NOTES**

A CURB (RAMPS) MUST BE PROVIDED ALONG AN ACCESSIBLE PATH FROM THE PARKING LOT TO OWNERS CURBED SIDEWALK.

A CURB (RAMPS) MUST ALSO BE PROVIDED IN THE PARKING LOT AT ALL INTERMEDIATE AND PERIMETER CURBS ALONG THE ACCESSIBLE ROUTE CONNECTING TO PUBLIC SIDEWALKS.

A RAMP IS ANY SLOPE GREATER THAN 1:20 (5%) AND SHALL HAVE A MAXIMUM SLOPE OF 1:12 (8.33%). THE MAXIMUM SLOPE IS 1" OF RISE PER FOOT OF DISTANCE TRAVELED.

A RAMP SHALL HAVE A DETECTABLE SURFACE IDENTIFYING THE AREA OF THE RAMP. DETECTABLE WARNINGS SHALL CONSIST OF TRUNCATED DOMES ALIGNED IN A SQUARE OR RADIAL GRID. TRUNCATED DOMES SHALL HAVE A BASE DIAMETER OF 0.9 IN. TO 1.5 IN. MAXIMUM, A TOP DIAMETER OF 50% OF THE BASE DIAMETER MINIMUM TO 65% OF THE BASE DIAMETER MAXIMUM AND A HEIGHT OF 0.2 IN. DOMES SHALL BE SPACED CENTER-TO-CENTER OF 1.6 IN. MINIMUM TO 2.4 IN. MAXIMUM AND A BASE-TO-BASE SPACING OF 0.65 IN. MINIMUM, MEASURED BETWEEN THE MOST ADJACENT DOMES.

ADA DETECTABLE WARNING STRIPS SHALL BE A CAST IN PLACE DETECTABLE/TACTILE WARNING TILE. THE TILE MUST MEET ALL ADA REQUIREMENTS, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. A 5-YEAR WARRANTY SHALL BE PROVIDED BY THE MANUFACTURER FOR THE INSTALLED TILE FOR COLORFASTNESS AND DURABILITY. DETECTABLE/TACTILE WARNING TILE SHALL BE ARMOR-TILE, ACCESS-TILE OR AN APPROVED VENDOR.

THE LEADING EDGE OF THE DETECTABLE WARNING TILE MUST BE CLOSER THAN 5' FROM THE VEHICLE SURFACE, AND HAVE A MINIMUM OF 24" LENGTH ALONG THE PEDESTRIAN TRAVEL DIRECTION. THE TILE MAY BE CUT TO MATCH A RADIUS AT THE CURB IF ONE END OF THE RAMP EXCEEDS THE 5' MINIMUM.

THE CLEAR WIDTH OF ANY RAMP MEASURED PERPENDICULAR TO THE PEDESTRIAN TRAVEL DIRECTION IS A MINIMUM OF 36".

THERE ARE LOCAL JURISDICTIONS THAT SPECIFICALLY REQUIRE DETECTABLE WARNINGS ON THE SIDE FLARES OR TOP OF RAMP (CA). THERE ARE LOCAL JURISDICTIONS THAT HAVE REDEFINED DETECTABLE WARNINGS (e.g. EXPOSED CONTRASTING COLOR AGGREGATE, GROOVES IN A PARALLEL OR DIAMOND PATTERN ETC.). ACCESSIBILITY GUIDELINES DEFINED BY LOCAL ORDINANCE SHOULD SUPERSEDE WHEN MORE STRINGENT THAN ADAAG. IN THE ABSENCE OF A DEFINITION, FOLLOW ADAAG.

**ACCESSIBLE PARKING SIZE AND MARKINGS**

ACCESSIBLE PARKING ACCESS AISLES SHALL BE PART OF AN ACCESSIBLE ROUTE TO THE BUILDING ENTRANCE.

THE ACCESS AISLE SHALL BE DESIGNATED WITH HIGH QUALITY YELLOW DIAGONAL SURFACE PAINT STRIPING OR PER LOCAL MUNICIPALITY'S REQUIREMENTS.

RAMPS MUST NOT EXTEND OUT FROM THE CURB INTO THE ACCESS AISLE OF ANY ACCESS PARKING SPACE.

ADA ALLOWS TWO PARKING SPACES TO SHARE AN ACCESS AISLE.

TOTAL OFF STREET PARKING SPACES PROVIDED	NUMBER OF ACCESSIBLE PARKING SPACES REQUIRED
1 TO 25	1
26 TO 50	2
51 TO 75	3
76 TO 100	4
101 TO 150	5
151 TO 200	6
201 TO 300	7
301 TO 400	8
401 TO 500	9
501 TO 1000	10% OF TOTAL
OVER 1000	2% PLUS 1 FOR EACH 100 OVER 1000 HOSPITAL OUTPATIENT FACILITIES

ADA REQUIRES ONE VAN ACCESSIBLE PARKING SPACE IN EVERY SIX ACCESSIBLE SPACES, BUT NOT LESS THAN ONE.

- VAN ACCESSIBLE SPACES SHALL BE PERMITTED TO BE 8ft WIDE (MIN) WITH A 8ft WIDE (MIN) ACCESS AISLE
- OR
- VAN ACCESSIBLE SPACES SHALL BE PERMITTED TO BE 11ft WIDE WITH A 5ft WIDE (MIN) ACCESS AISLE

**PAVEMENT MARKINGS**

- NOTES:
1. PAINTED CROSSWALKS SHALL BE WHITE 18" WIDE STRIPES 6' LONG, SPACED 36" ON CENTER ACROSS THE ENTIRE LENGTH OF THE CROSSING.
  2. PAINT 2" BLACK OUTLINE AROUND ARROWS AND LETTERS IN AREAS OF CONCRETE SURFACE.
  3. PARKING SPACES ARE TO BE "WHITE" - 4" WIDE STRIPES
  4. ADA SPACES, ADA MARKING, AND ADA ACCESS SPACE ARE TO BE "BLUE" - 4" WIDE STROKES.

DATE: \_\_\_\_\_

REVISIONS AND NOTES:






# EROSION CONTROL MEASURES

## CHEMICAL STABILIZATION

MATERIAL: SOFT RIABLE MATTING SUCH AS JUTE, COIR OR BURLAP, APPLIED POLYMER SYSTEMS, "SILT STOP" DRY POWDER (OR APPROVED EQUAL).

COVERAGE: "SILT STOP" DRY POWDER IS A SOIL-SPECIFIC MATERIAL. A SOIL SAMPLE MUST BE SUBMITTED TO THE MANUFACTURER TO DETERMINE PROPER APPLICATION RATES.

- INSTALLATION:**
1. PREPARE THE SITE BY FILLING IN CULLIES, HILLS AND LOW SPOTS.
  2. APPLY "SILT STOP" POWDER (DRY) OVER DRY GROUND WITH A SEED/FERTILIZER SPREADER.
  3. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G. SLOPE, CHANNEL AND FLOW VELOCITY).
- MAINTENANCE:**
1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER STORM EVENTS FOR ANY EROSION.
  2. IF ANY AREA SHOWS EROSION, REPAIR THE GRADE AND RE-APPLY "SILT STOP" POWDER AND RE-LAY AND STAPLE THE BLANKET.
  3. AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY.

## GEOTEXTILES

MATERIAL: NORTH AMERICAN GREEN - SC 150 or DS 150 BLANKET

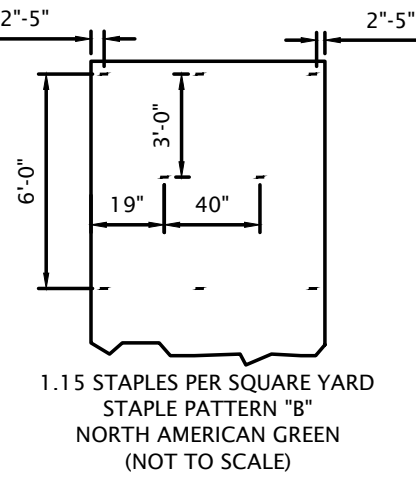
SC 150 WHEN PLACEMENT OCCURS IN THE FALL/WINTER AND WHEN DURABILITY IS REQUIRED

DS 150 DEGRADES MORE RAPIDLY, ALLOWING FOR SOONER MOWING OF THE STABILIZED AREA

## EROSION CONTROL BLANKET (SURFACE-APPLIED)

ANCHORING: STAPLES AS RECOMMENDED BY THE MANUFACTURER. FOR NORTH AMERICAN GREEN, USE STAPLE PATTERN "B". SEE CHART BELOW.

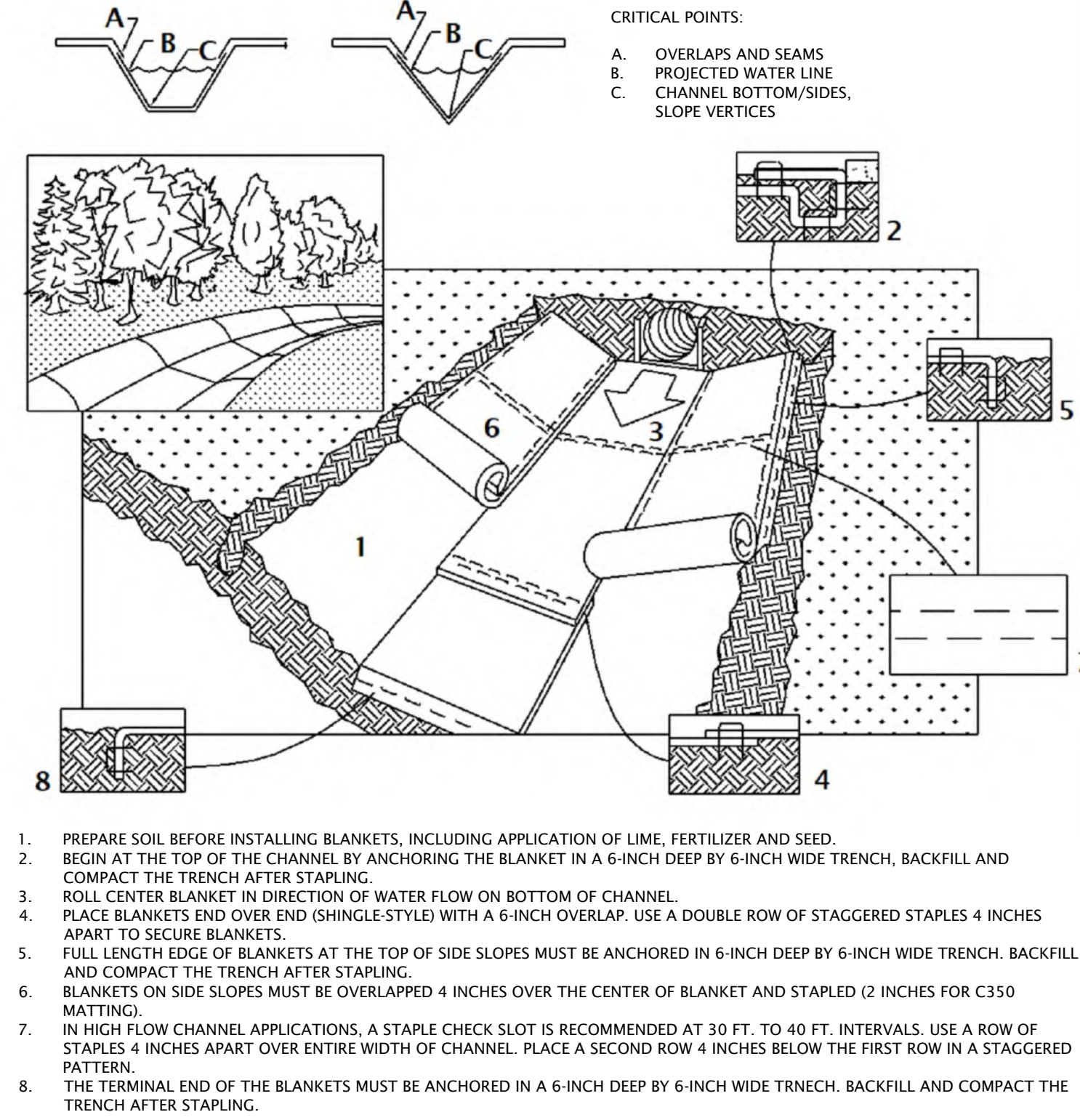
- INSTALLATION:**
1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G. SLOPE, CHANNEL, FLOW VELOCITY).
  2. INSTALL ANY PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT DIVERSION, SEDIMENT BASIN OR TRAP, SILT FENCE, AND/OR STRAW BALE DAM.
  3. GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
  4. ADD TOPSOIL WHERE APPROPRIATE.
  5. PREPARE THE SEEDBED, FERTILIZE (AND LIME IF NEEDED) AND SEED THE AREA IMMEDIATELY AFTER GRADING.
  6. FOLLOW MANUFACTURER'S DIRECTIONS AND LAY THE BLANKETS ON THE SEED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 INCHES.
  7. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SLIT TRENCH), BACKFILL WITH SOIL, AND TAMPA DOWN.
  8. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER.
- MAINTENANCE:**
1. DURING VEGETATIVE ESTABLISHMENT, INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
  2. IF ANY AREA SHOWS EROSION, PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
  3. AFTER VEGETATIVE ESTABLISHMENT, CHECK THE TREATED AREA PERIODICALLY.



## EROSION CONTROL BLANKET (CHANNEL APPLICATION)

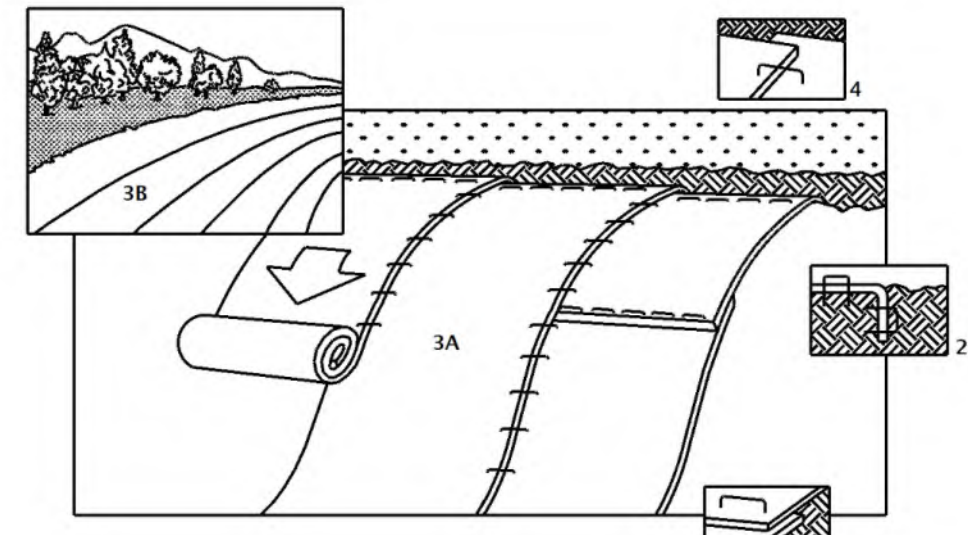
DETAIL SOURCE: NORTH AMERICAN GREEN

NOTE: HORIZONTAL STAPLE SPACING SHOULD BE ALTERED IF NECESSARY TO ALLOW STAPLES TO SECURE THE CRITICAL POINTS ALONG THE CHANNEL SURFACE. REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE RECOMMENDATIONS FOR CHANNELS.



## EROSION CONTROL BLANKET (SIDE SLOPE APPLICATION)

DETAIL SOURCE: NORTH AMERICAN GREEN



NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE RECOMMENDATIONS FOR CHANNELS.

- DIRECTIONS:**
1. PREPARE SOIL BEFORE INSTALLING BLANKETS INCLUDING APPLICATION OF LIME, FERTILIZER AND SEED. WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET 6-INCH DEEP BY 6-INCH WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
  3. ROLL THE BLANKETS DOWN OR HORIZONTALLY ACROSS THE SLOPE.
  4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH AN APPROXIMATELY 2-INCH OVERLAP.
  5. WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE-STYLE) WITH AN APPROXIMATELY 4-INCH OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12 INCHES APART.

## RIP RAP AT PIPE OUTLET

MATERIAL: HARD, ANGULAR AND WEATHER-RESISTANT, HAVING A SPECIFIC GRAVITY OF AT LEAST 2.5

GRADATION: WELL-GRADED STONE, 50% BY WEIGHT LARGER THAN THE SPECIFIED  $d_{50}$ ; HOWEVER, THE LARGEST PIECES SHOULD NOT EXCEED TWO TIMES THE SPECIFIED  $d_{50}$  AND NO MORE THAN 15% OF THE PIECES (BY WEIGHT) SHOULD BE LESS THAN 3 INCHES.

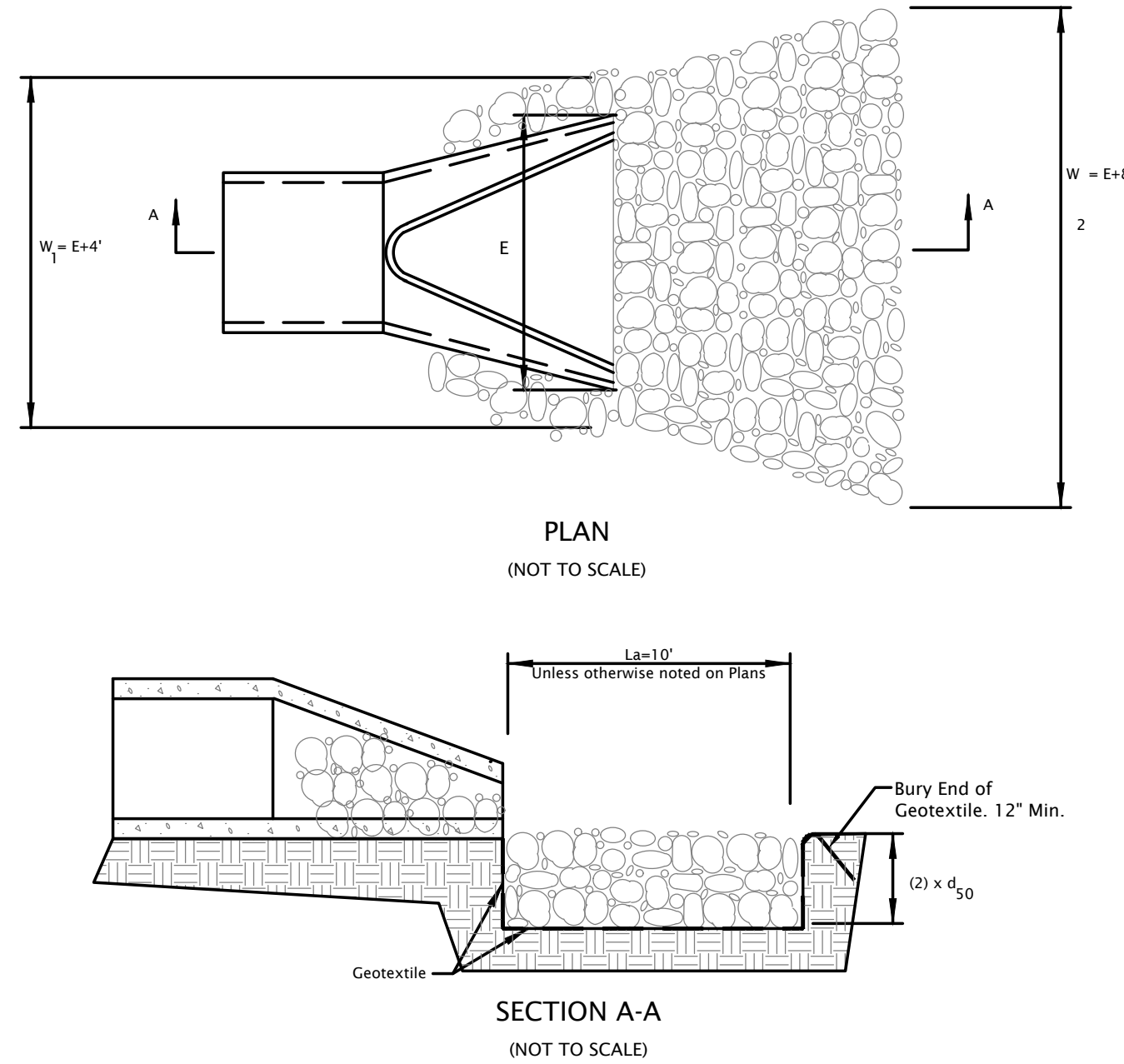
FILTER: USE GEOTEXTILE FABRIC FOR STABILIZATION AND FILTRATION OR SAND/GRAVEL LAYER PLACED UNDER ALL PERMANENT RIP RAP INSTALLATIONS.

SLOPE: 2:1 OR FLATTER, UNLESS APPROVED IN THE EROSION AND SEDIMENT CONTROL PLAN.

- SUBGRADE PREPARATION**
1. REMOVE BRUSH, TREES, STUMPS AND OTHER DEBRIS.
  2. EXCAVATE ONLY DEEP ENOUGH FOR BOTH FILTER AND RIP RAP. OVER-EXCAVATION INCREASES THE AMOUNT OF SPOIL CONSIDERABLY.
  3. COMPACT ANY FILL MATERIAL TO THE DENSITY OF THE SURROUNDING UNDISTURBED SOIL.
  4. SMOOTH THE GRADED FOUNDATION.
- FILTER PLACEMENT**
1. IF USING GEOTEXTILE FABRIC, PLACE IT ON THE SMOOTHED FOUNDATION, OVERLAP THE EDGES AT LEAST 12 INCHES AND SECURE WITH ANCHOR PINS SPACED EVERY 3 FEET ALONG THE OVERLAP.
  2. IF USING A SAND/GRAVEL FILTER, SPREAD THE WELL-GRADED AGGREGATE IN A UNIFORM LAYER TO THE REQUIRED THICKNESS (6 INCHES MINIMUM); IF TWO OR MORE LAYERS ARE SPECIFIED, PLACE THE LAYER OF SMALLER GRADATION FIRST AND AVOID MIXING THE LAYERS.

- RIP RAP PLACEMENT**
1. IMMEDIATELY AFTER INSTALLING THE FILTER, ADD THE RIP RAP TO FULL THICKNESS IN ONE OPERATION. DO NOT DUMP THROUGH CHUTES OR USE ANY METHOD THAT CAUSES SEGREGATION OF ROCK SIZES OR THAT WILL DISLOUGE OR DAMAGE THE UNDERLYING FILTER MATERIAL.
  2. IF FABRIC IS DAMAGED, REMOVE THE RIP RAP AND REPAIR BY ADDING ANOTHER LAYER OF FABRIC, OVERLAPPING THE DAMAGED AREA BY 12 INCHES.
  3. PLACE SMALLER ROCK IN VOIDS TO FORM A DENSE, UNIFORM AND WELL-GRADED MASS. SELECTIVE LOADING AT THE QUARRY AND SOME HAND PLACEMENT MAY BE NEEDED TO ENSURE AN EVEN DISTRIBUTION OF ROCK MATERIAL.
  4. BLEND THE ROCK SURFACE SMOOTHLY WITH THE SURROUNDING AREA TO ELIMINATE PROTRUSIONS OR OVER-FALLS.

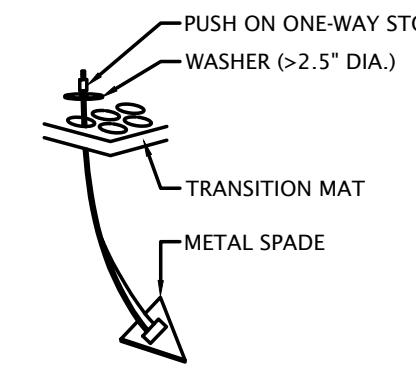
- MAINTENANCE**
1. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING AND EROSION AT EDGES, ESPECIALLY DOWN-STREAM OR DOWN-SLOPE.



## SCOURSTOP TRANSITION MAT FOR SCOUR PROTECTION

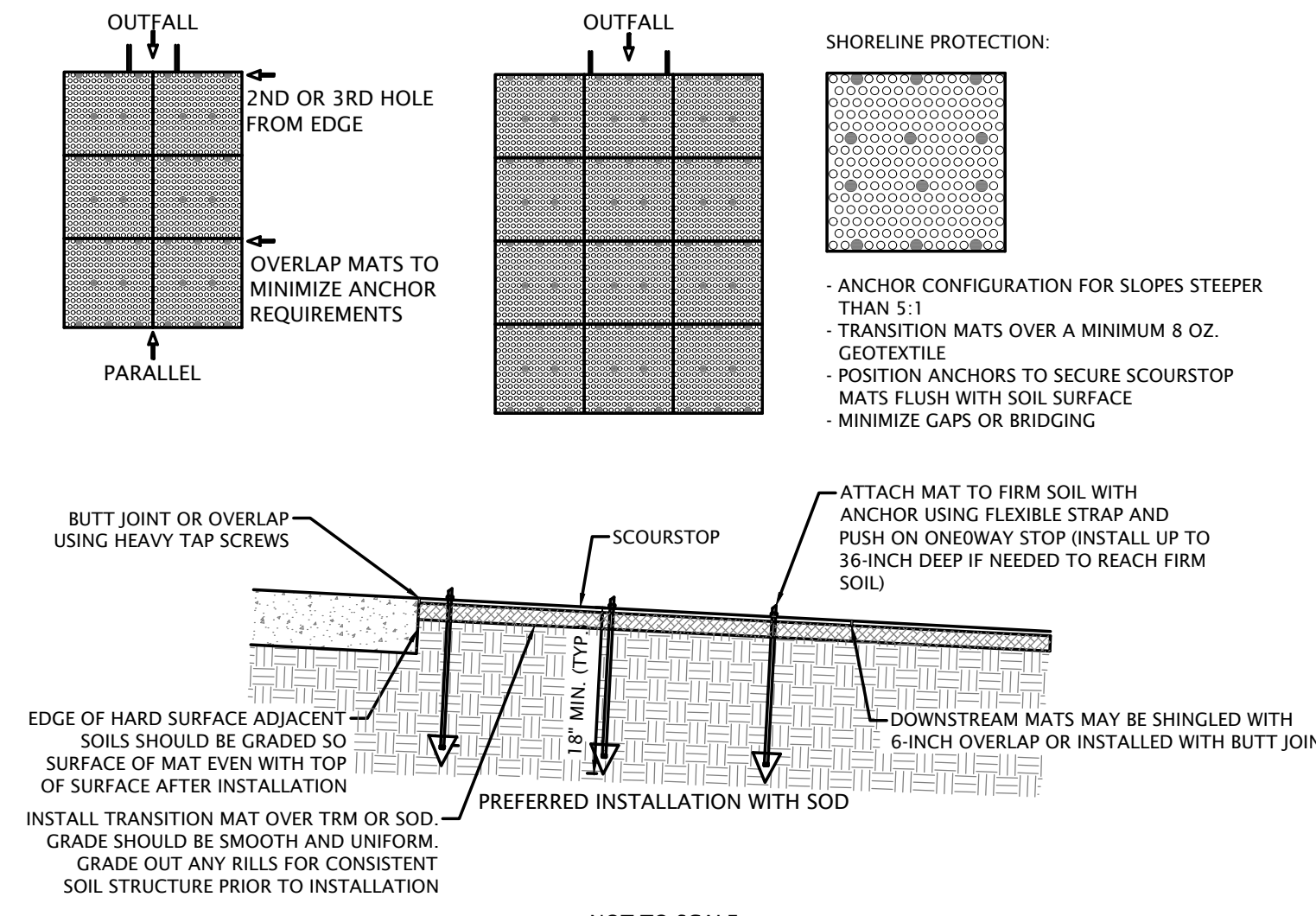
MATERIAL: SCOUR STOP TRANSITION MATS  
WH SHURTLEFF COMPANY  
11 WALLACE AVENUE  
SOUTH PORTLAND, ME 04106  
(800) 563-6149  
WWW.WHSHURTLEFF.COM

PIPE DIAMETER	DISCHARGE (CFS)	SCOURSTOP WIDTHxLENGTH
12"	8	4' x 4'
24"	30	4' x 8'
36"	75	8' x 12'
48"	100	12' x 16'
60"	150	12' x 20'
72"+		SEE DETAILS



ANCHOR REQUIREMENTS:  
FIRST ROW OF SCOURSTOP MATS MINIMUM OF 8 ANCHORS  
SECTION ROW OF SCOURSTOP MATS MINIMUM OF 5 ANCHORS

\* TO ENSURE CONSISTENT CONTACT WITH THE SOIL, EXCEED THE MINIMUM ANCHOR REQUIREMENT AT INSTALLATION OR IMPROVE SOIL SURFACE SMOOTHNESS



- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. DO NOT SCALE DRAWINGS.

## RIP-RAP FOR SCOUR PROTECTION

MATERIAL: HARD, ANGULAR AND WEATHER-RESISTANT, HAVING A SPECIFIC GRAVITY OF AT LEAST 2.5

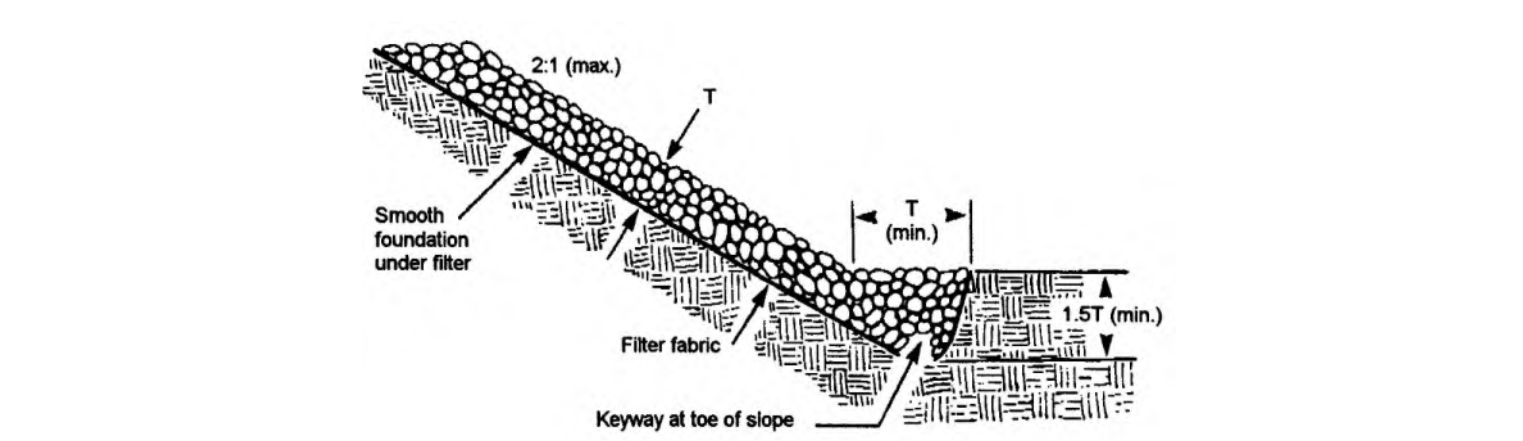
GRADATION: WELL-GRADED STONE, 50% BY WEIGHT LARGER THAN THE SPECIFIED  $d_{50}$ ; HOWEVER, THE LARGEST PIECES SHOULD NOT EXCEED TWO TIMES THE SPECIFIED  $d_{50}$  AND NO MORE THAN 15% OF THE PIECES (BY WEIGHT) SHOULD BE LESS THAN 3 INCHES.

FILTER: USE GEOTEXTILE FABRIC FOR STABILIZATION AND FILTRATION OR SAND/GRAVEL LAYER PLACED UNDER ALL PERMANENT RIP RAP INSTALLATIONS.

SLOPE: 2:1 OR FLATTER, UNLESS APPROVED IN THE EROSION AND SEDIMENT CONTROL PLAN.

MINIMUM THICKNESS: TWO TIMES THE SPECIFIED  $d_{50}$  STONE DIAMETER.

- SUBGRADE PREPARATION**
1. REMOVE BRUSH, TREES, STUMPS AND OTHER DEBRIS.
  2. EXCAVATE ONLY DEEP ENOUGH FOR BOTH FILTER AND RIP RAP. OVER-EXCAVATION INCREASES THE AMOUNT OF SPOIL CONSIDERABLY.
  3. COMPACT ANY FILL MATERIAL TO THE DENSITY OF THE SURROUNDING UNDISTURBED SOIL.
  4. CUT KEYWAY IN STABLE MATERIAL AT THE BASE OF THE SLOPE TO REINFORCE TOE. KEYWAY DEPTH SHOULD BE 1.5 TIMES THE DESIGN THICKNESS OF THE RIP RAP AND SHOULD EXTEND A HORIZONTAL DISTANCE EQUAL TO THE DESIGN THICKNESS.
  5. SMOOTH THE GRADED FOUNDATION



- FILTER PLACEMENT**
1. IF USING GEOTEXTILE FABRIC, PLACE IT ON THE SMOOTHED FOUNDATION, OVERLAP THE EDGES AT LEAST 12 INCHES AND SECURE WITH ANCHOR PINS SPACED EVERY 3 FEET ALONG THE OVERLAP.
  2. IF USING A SAND/GRAVEL FILTER, SPREAD THE WELL-GRADED AGGREGATE IN A UNIFORM LAYER TO THE REQUIRED THICKNESS (6 INCHES MINIMUM); IF TWO OR MORE LAYERS ARE SPECIFIED, PLACE THE LAYER OF SMALLER GRADATION FIRST AND AVOID MIXING THE LAYERS.

- RIP RAP PLACEMENT**
1. IMMEDIATELY AFTER INSTALLING THE FILTER, ADD THE RIP RAP TO FULL THICKNESS IN ONE OPERATION. DO NOT DUMP THROUGH CHUTES OR USE ANY METHOD THAT CAUSES SEGREGATION OF ROCK SIZES OR THAT WILL DISLOUGE OR DAMAGE THE UNDERLYING FILTER MATERIAL.
  2. IF FABRIC IS DAMAGED, REMOVE THE RIP RAP AND REPAIR BY ADDING ANOTHER LAYER OF FABRIC, OVERLAPPING THE DAMAGED AREA BY 12 INCHES.
  3. PLACE SMALLER ROCK IN VOIDS TO FORM A DENSE, UNIFORM AND WELL-GRADED MASS. SELECTIVE LOADING AT THE QUARRY AND SOME HAND PLACEMENT MAY BE NEEDED TO ENSURE AN EVEN DISTRIBUTION OF ROCK MATERIAL.
  4. BLEND THE ROCK SURFACE SMOOTHLY WITH THE SURROUNDING AREA TO ELIMINATE PROTRUSIONS OR OVER-FALLS.

- MAINTENANCE**
1. INSPECT PERIODICALLY FOR DISPLACED ROCK MATERIAL, SLUMPING AND EROSION AT EDGES, ESPECIALLY DOWN-STREAM OR DOWN-SLOPE.

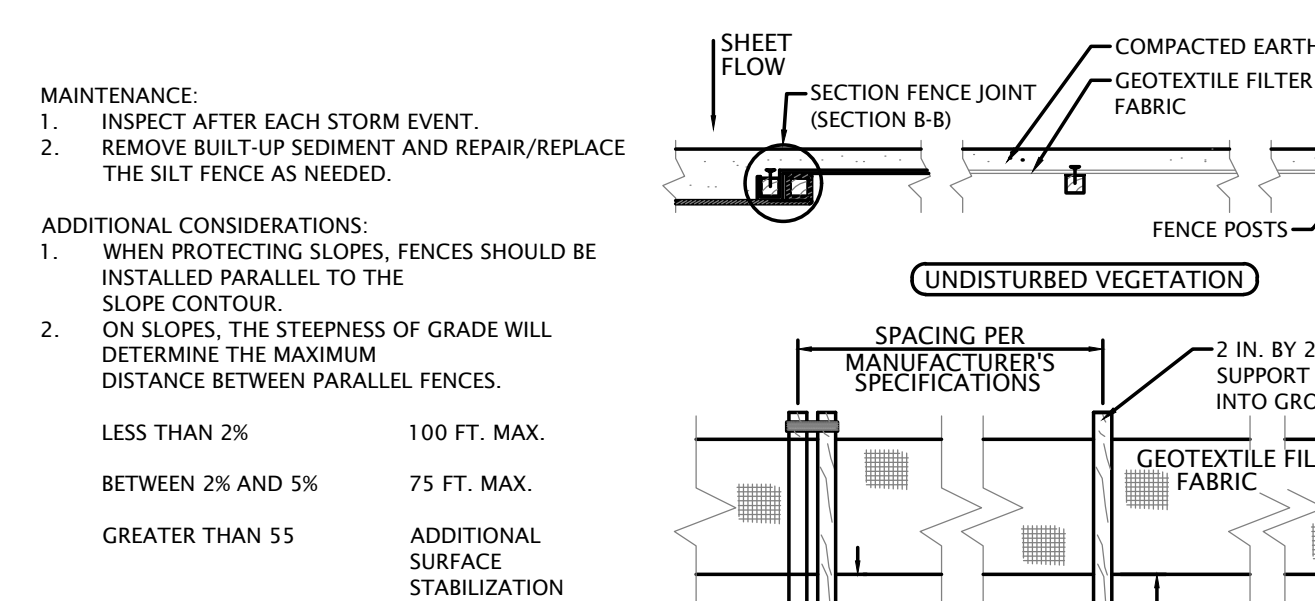
## SILT FENCE

APPROACH: POOL AREA FLAT (LESS THAN 1% SLOPE), WITH SEDIMENT STORAGE OF 945 CU.FT./ACRE DISTURBED.

MATERIALS: ECONOMY BLUE STRIPE SILT FENCE WITH POSTS, MANUFACTURED BY MIDWEST CONSTRUCTION PRODUCTS AT (800) 532-2381 OR APPROVED EQUAL.

ANCHORING: 2 INCH BY 2 INCH HARDWOOD STAKES WITH A LENGTH EQUAL TO THE HEIGHT OF THE SILT FENCE PLUS 1 FOOT.

- INSTALLATION:**
1. DRIVE STAKES 1 FT. (MINIMUM) INTO GROUND AND ATTACH FABRIC TO STAKES WITH STAPLER.
  2. BOTTOM OF FABRIC SHALL BE PLACED UNDER 6 INCHES COMPACTED SOIL TO PREVENT SEDIMENT FLOW UNDERNEATH THE FENCE.
  3. ENSURE THAT ALL SUPPORTING POSTS ARE ON THE DOWN SLOPE SIDE OF THE FENCING.



- ADDITIONAL CONSIDERATIONS:**
1. WHEN PROTECTING SLOPES, FENCES SHOULD BE INSTALLED PARALLEL TO THE SLOPE CONTOUR.
  2. ON SLOPES, THE STEEPEST OF GRADE WILL DETERMINE THE MAXIMUM PARALLEL DISTANCE BETWEEN PARALLEL FENCES.
- LESS THAN 2% 100 FT. MAX.
- BETWEEN 2% AND 5% 75 FT. MAX.
- GREATER THAN 5% ADDITIONAL SURFACE STABILIZATION SHALL BE PROVIDED

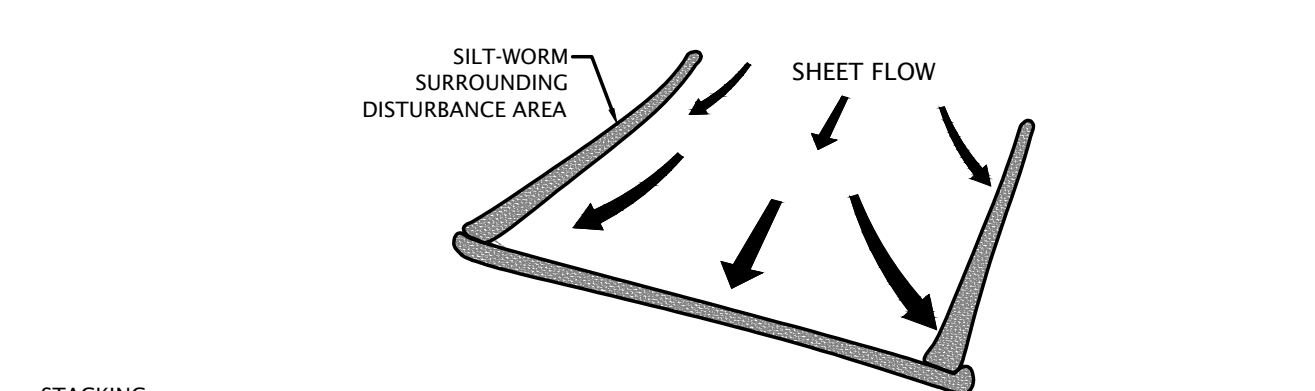


## SILT-WORM

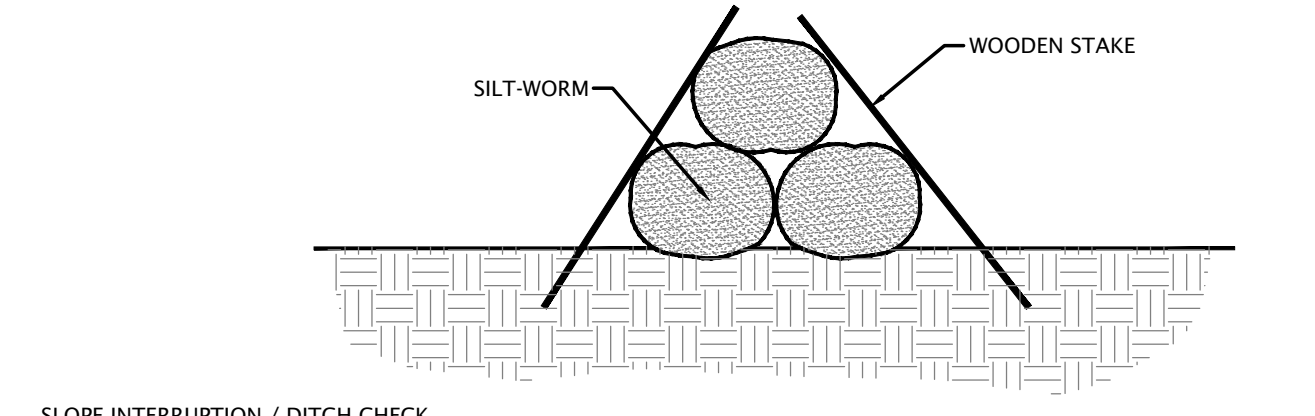
MATERIAL: SILT-WORM OR APPROVED EQUAL

DIAMETER: 9 INCHES MINIMUM

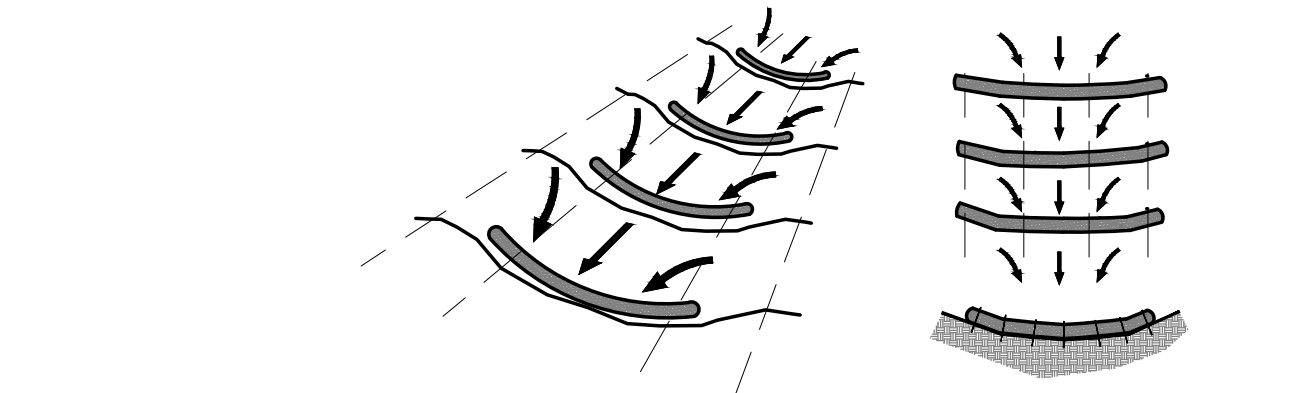
- PERIMETER CONTROL**
- INSTALLATION:**
1. PLACE SILT-WORM DIRECTLY ON TOP OF GRADE FOR GRADES UNDER 12%.
  2. ARRANGE PERIMETER CONTROL IN A MANNER THAT IS APPLIED PERPENDICULAR TO SHEET FLOW.
  3. OVERLAP CONTIGUOUS SECTIONS OF SILT-WORM AT A MINIMUM OF 6 INCHES.



- STACKING**
- INSTALLATION:**
1. PLACE SILT-WORM DIRECTLY ON TOP OF GRADE FOR GRADES UNDER 12%.
  2. STACK SILT-WORM IN A STAGGERED MANNER, AS SHOWN BELOW.
  3. OVERLAP CONTIGUOUS SECTIONS OF SILT-WORM AT A MINIMUM OF 6 INCHES.



- SLOPE INTERRUPTION / DITCH CHECK**
- INSTALLATION:**
1. PLACE SILT-WORM PERPENDICULAR TO SHEET FLOW AND CURL ENDS UP TOWARD TOP OF SLOPE.
  2. STAKE THE SILT-WORM EVERY 4 FEET AND OVERLAP THE ENDS BETWEEN 1 AND 2 FEET.
  3. PLACE A LINE OF DEFENSE AT THE TOP OF THE SLOPE AND ANOTHER WITHIN 10 FEET FROM TOE OF SLOPE.

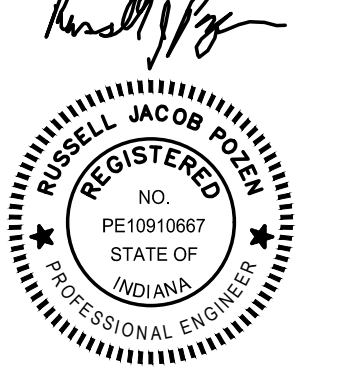


SLOPE	SPACING FOR SLOPE APPLICATION			
	9-inch	12-inch	18-inch	24-inch
2% or less	70 ft.	80 ft.	N/A	N/A
5%	30 ft.	60 ft.	80 ft.	N/A
10%	30 ft.	30 ft.	70 ft.	80 ft.
6:1	N/A	20 ft.	40 ft.	55 ft.
4:1	N/A	20 ft.	30 ft.	30 ft.
3:1	N/A	N/A	20 ft.	25 ft.
2:1	N/A	N/A	20 ft.	20 ft.

- SILT-WORM MAINTENANCE GUIDELINES**
1. INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  2. IF SILT-WORM TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY. NOTE: ALL REPAIRS SHOULD MEET SPECIFICATIONS AS OUTLINED WITHIN THIS MEASURE.
  3. REMOVE DEPOSITED SEDIMENT WHEN IT IS CAUSING THE SILT-WORM TO BULGE OR WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT-WORM AT ITS LOWEST POINT. WHEN CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE SILT-WORM AND SEDIMENT DEPOSITS, GRADE THE SITE TO BLEND WITH THE SURROUNDING AREA, AND STABILIZE.



1155 Troutwine Road  
Crown Point, IN 46307  
P: (219) 662-2710  
F: (219) 662-2740  
www.dvgteam.com



08/30/2024

OSNI  
730 45TH AVE  
MUNSTER, IN 46321

DATE:	REVISIONS AND NOTES:

OSNI MEDICAL OFFICE BLDG  
Stormwater Pollution  
Prevention Plan Details

NO SCALE

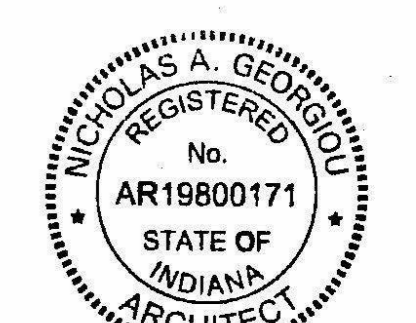
DESIGN BY: DVG  
DATE: 10/12/23  
PROJECT NO.: 23-0031

C302





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:**

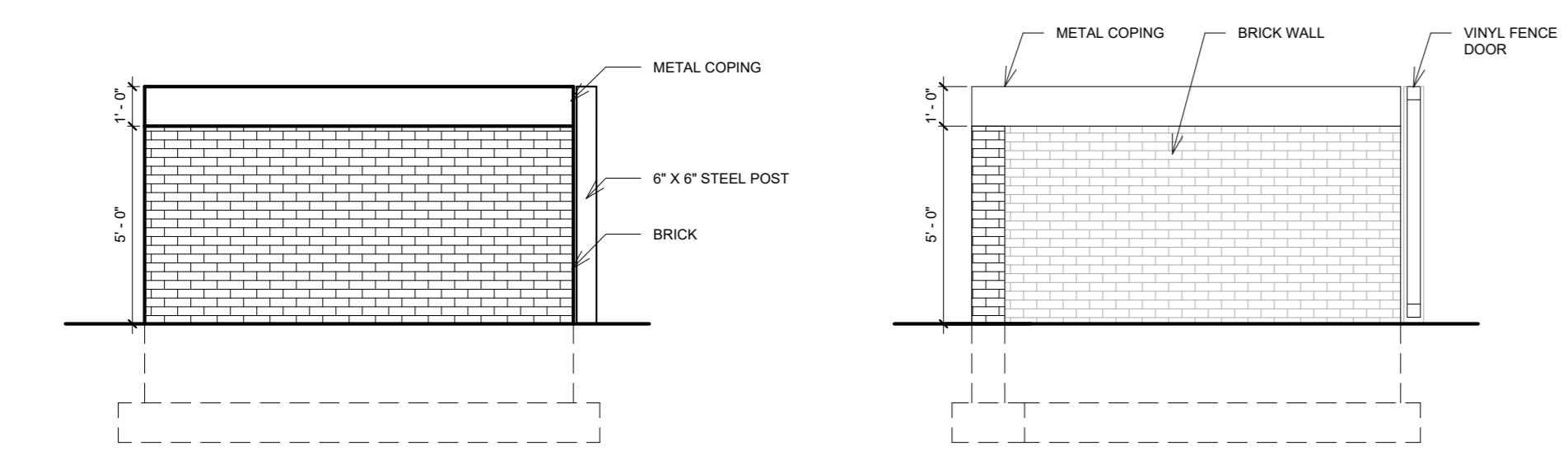
MONUMENT SIGN	PERMITTED	PROVIDED
QUANTITY	1 PER FRONTAGE	2 PROVIDED
TOTAL	2 TOTAL	2 PROVIDED
HEIGHT	6 FT MAX	6 FT
AREA	18 SF	18 SF

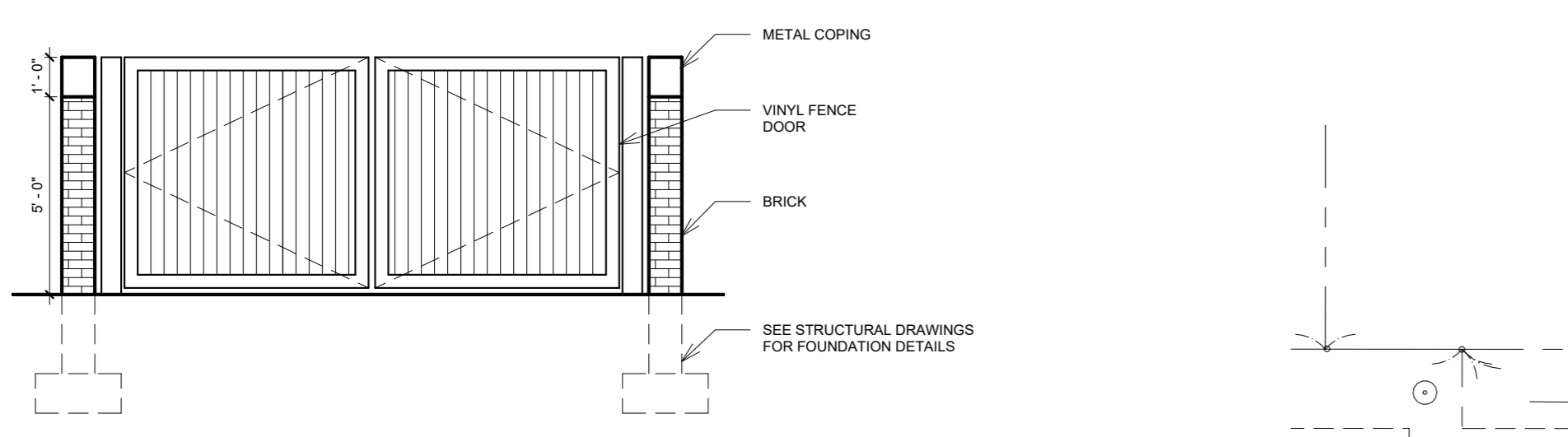
WALL SIGN	PERMITTED	PROVIDED
QUANTITY	1 PER FACADE	3 PROVIDED
TOTAL	4 TOTAL	3 PROVIDED
AREA	1.5 SF / LINEAL FT FACADE	

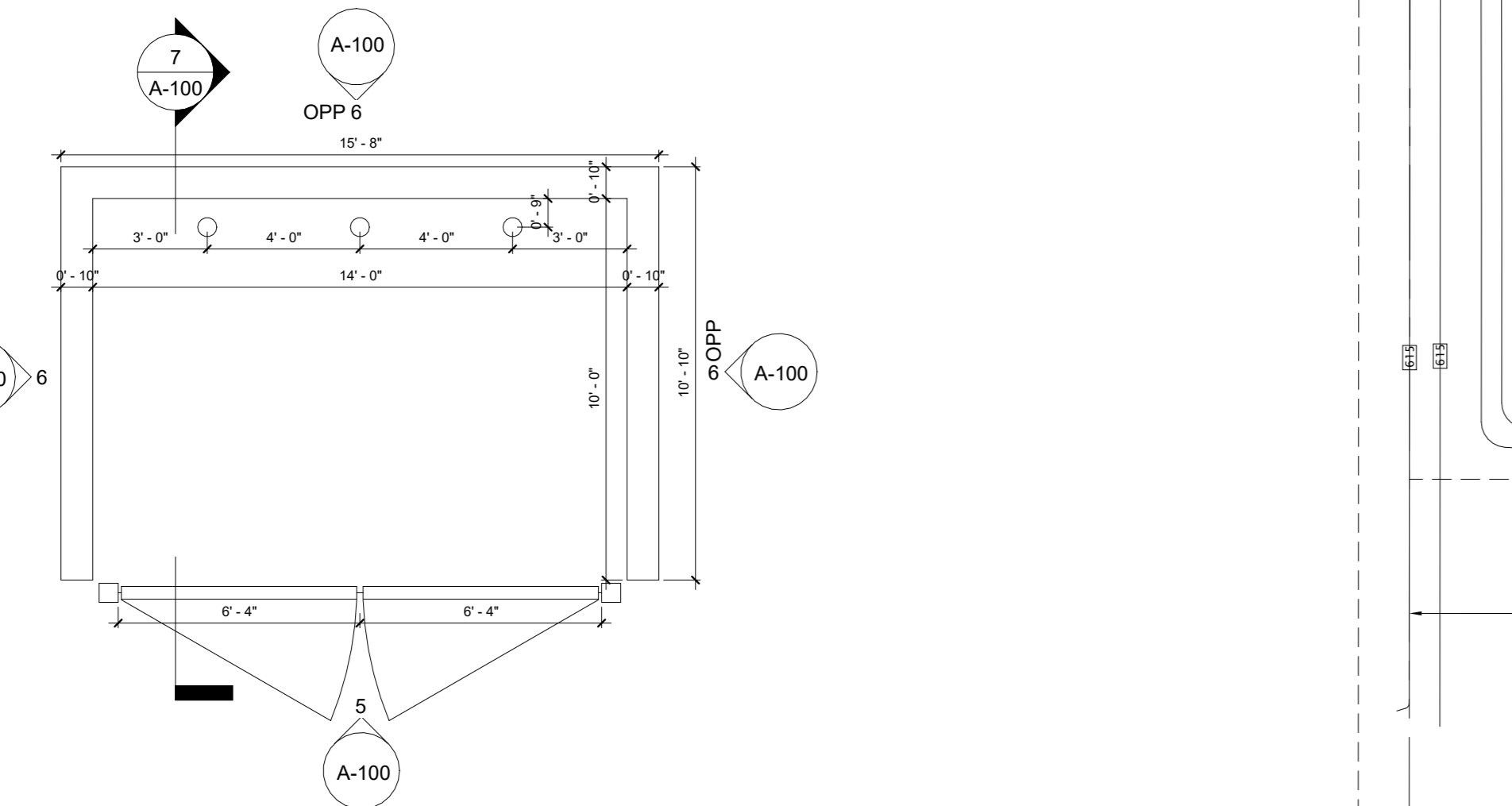
NORTH FACADE: 164 SF  
WEST FACADE: 150 SF  
SOUTH FACADE: 169 SF  
EAST FACADE: 142 SF



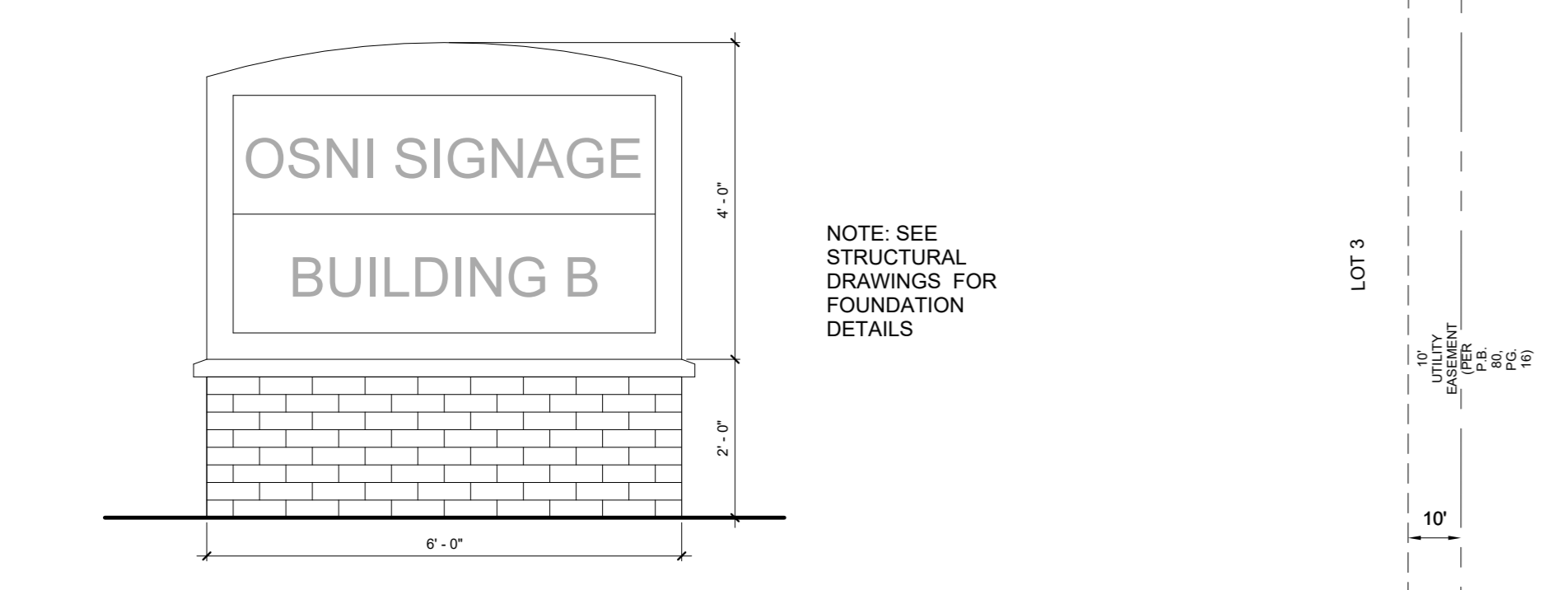
6 TRASH ENCLOSURE ELEVATION 1/4" = 1'-0"  
7 TRASH ENCLOSURE SECTION 1/4" = 1'-0"



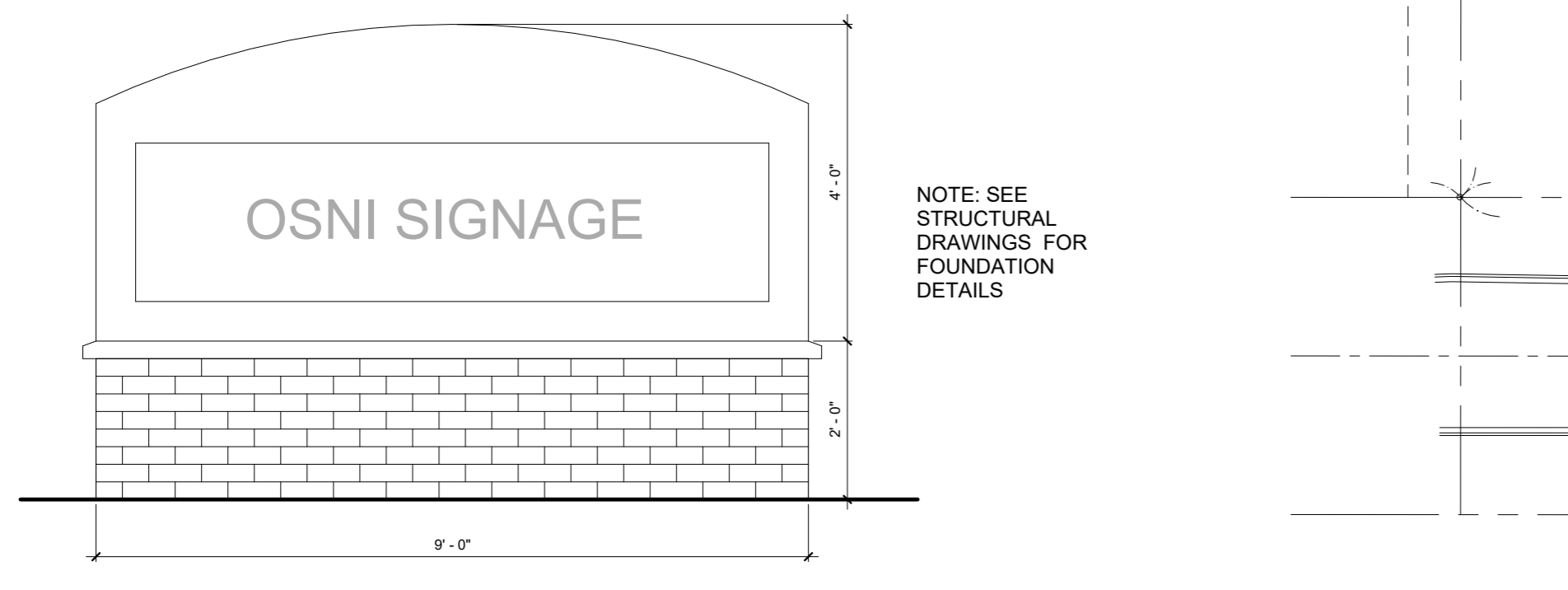
5 TRASH ENCLOSURE ELEVATION 1/4" = 1'-0"



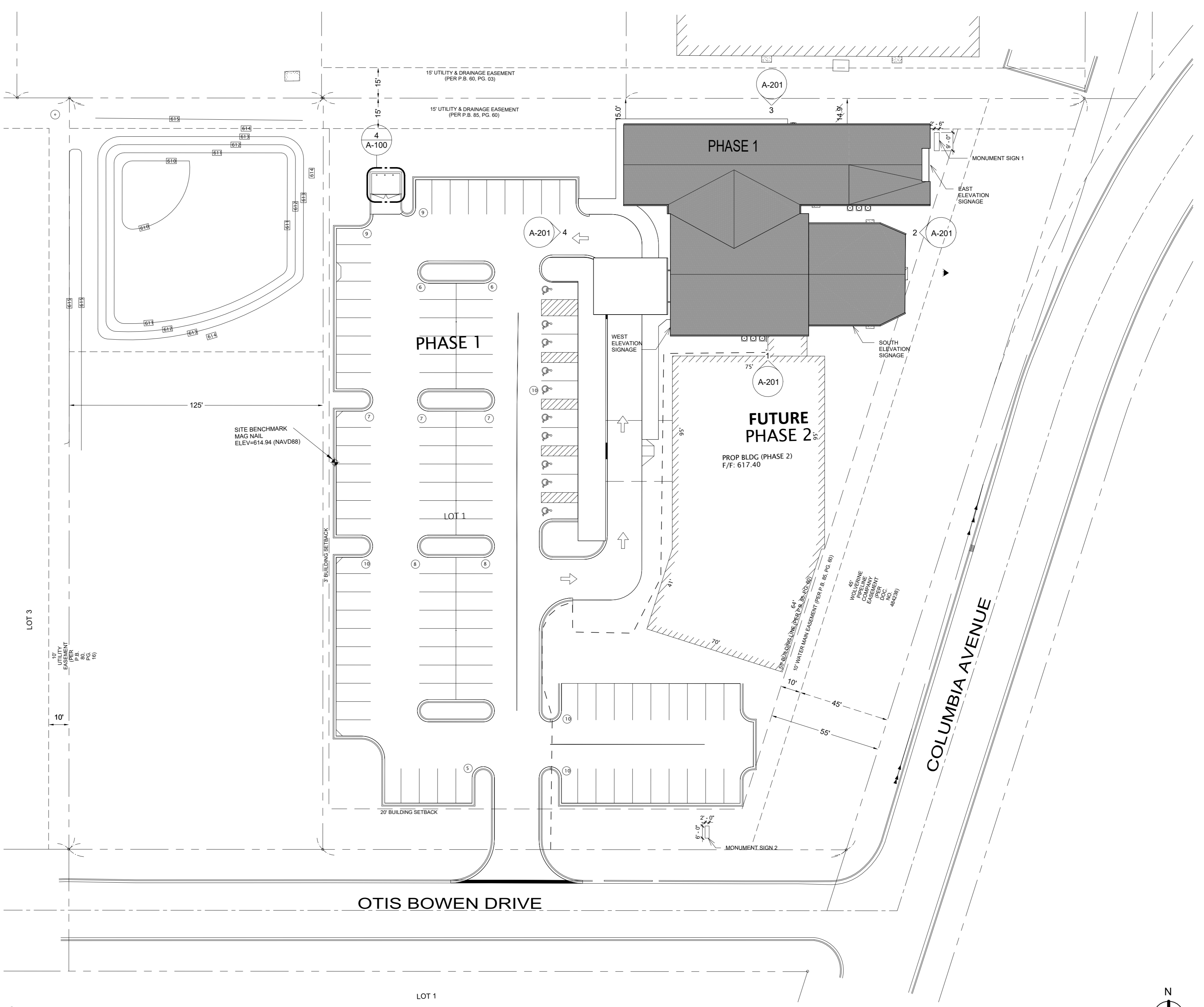
4 TRASH ENCLOSURE PLAN 1/4" = 1'-0"



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  
 www.ridgelandassociates.com

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

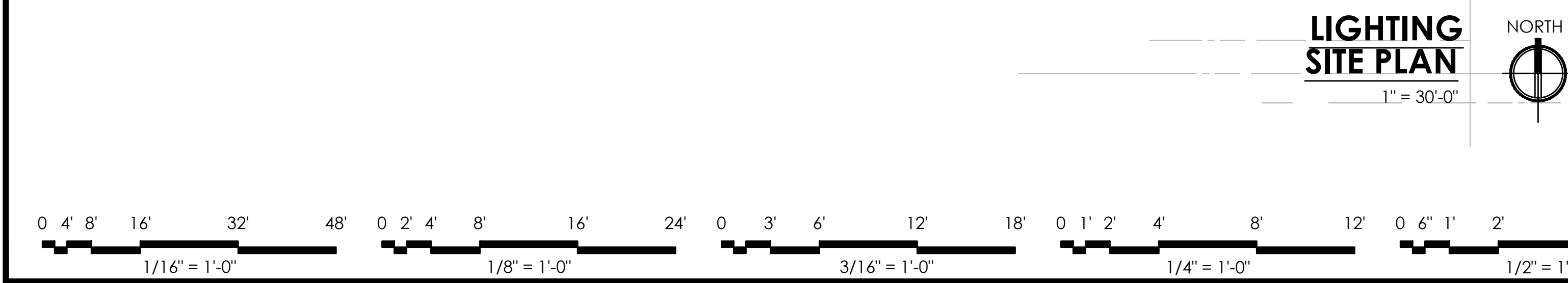
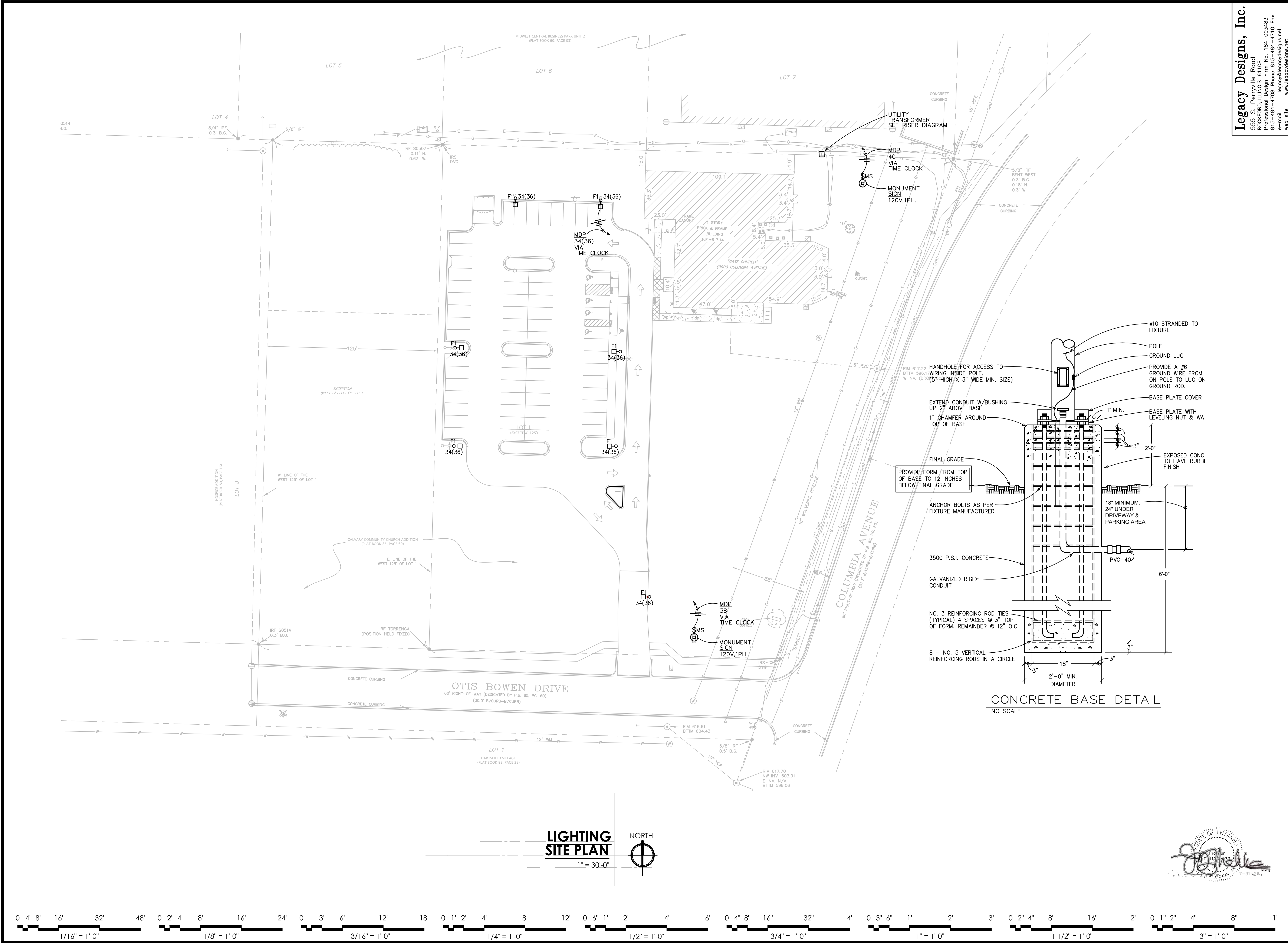
**OSNI**  
**BUILDING RENOVATION AND SITE WORK**  
 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

Revisions	

Drawing Date 8-5-2024  
 Project Number 24038

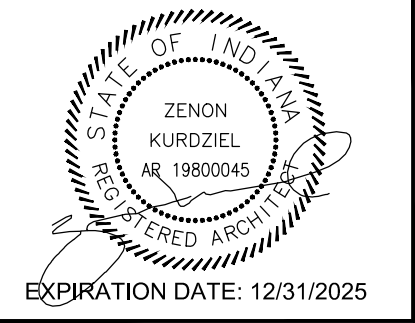
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Sheet Name  
**SITE LIGHTING SITE PLAN**  
 Sheet Number  
**ES101**  
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**Legacy Designs, Inc.**  
 555 S. Perryville Road  
 Rockford, IL 61108  
 Phone: 815-484-4708  
 Fax: 815-484-4710  
 e-mail: legacy@legacidesigns.net  
 www.legacidesigns.net

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 ARCHITECTS DESIGNERS PLANNERS  
 1 Riverside Rd., Riverside, Illinois 60546  
 708.435.0300 708.435.0305 fax  
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 Complete Construction Services  
 708-602-8280

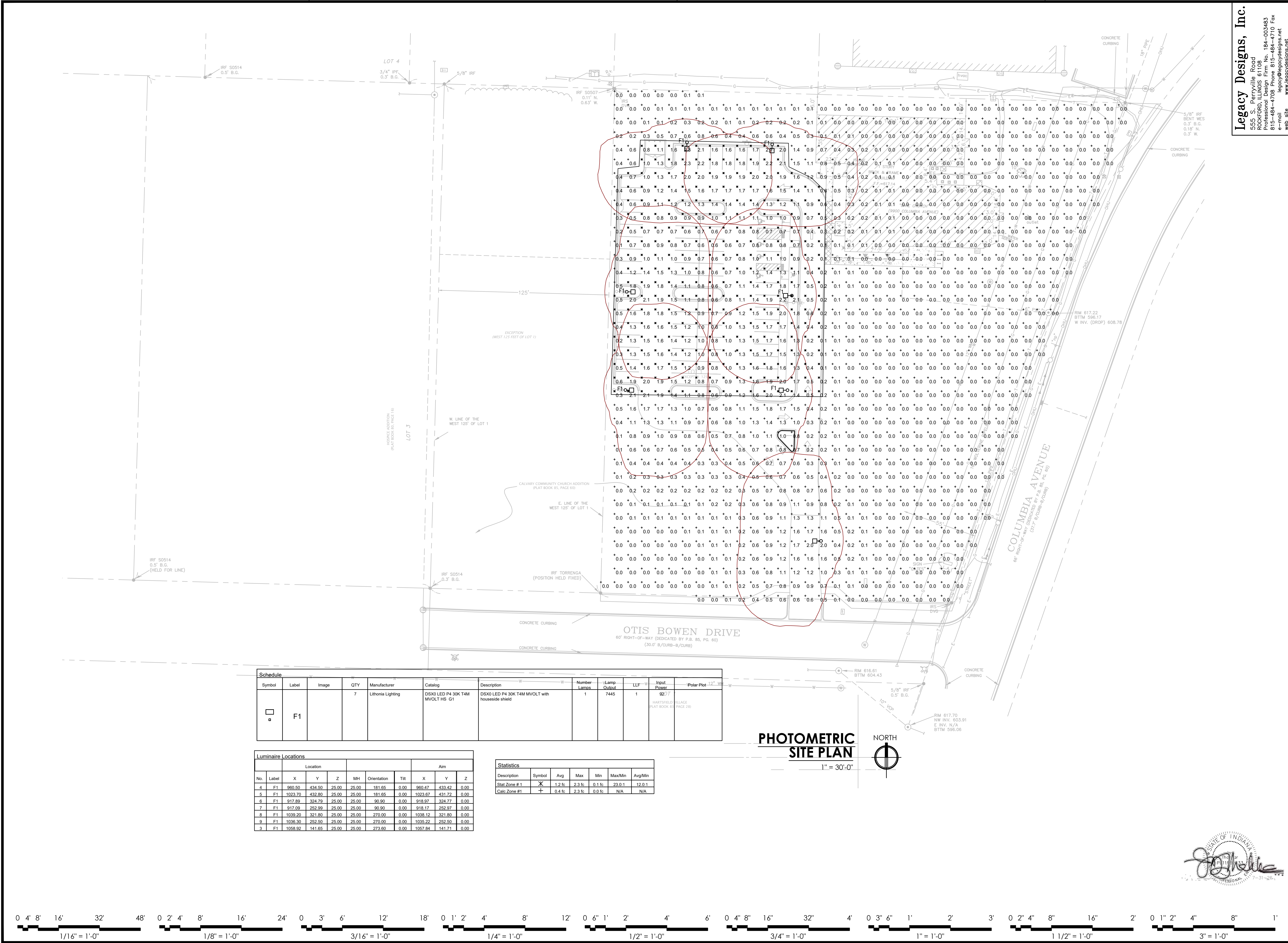
**OSNI**  
 BUILDING RENOVATION AND SITE WORK  
 9900 COLUMBIA AVENUE, MUNSTER, INDIANA 46321

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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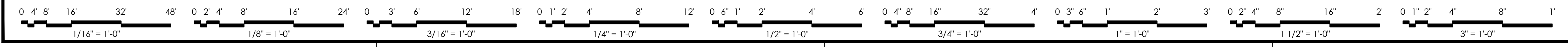


Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot 12"
	F1		7	Lithonia Lighting	DSX0 LED P4 30K T4M MVOLT HS G1	DSX0 LED P4 30K T4M MVOLT with houseshield	1	7445	1	92.71	MANTLED RELACE (PLAT BOOK 83, PAGE 28)

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"



*J. Sheltie*  
 PROFESSIONAL ENGINEER  
 STATE OF INDIANA  
 LICENSE NO. 123456789  
 EXPIRES 12-31-2025



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	
<b>OPF-S</b>										
<b>OPF-S OptiForm Small Area</b>	<b>Site and Area</b>	<b>Precision Plus<sup>®</sup> (T2M, T3M, T4M, T5M only)</b>	<b>827<sup>1</sup></b> 80CRI 2700K <b>830</b> 80CRI 3000K <b>840</b> 80CRI 4000K <b>727<sup>1</sup></b> 70CRI 2700K <b>730</b> 70CRI 3000K <b>740</b> 70CRI 4000K <b>750</b> 70CRI 5000K		<b>AFR</b> Autofront row <b>T2M</b> Type 2 medium <b>T3M</b> Type 3 medium <b>T4M</b> Type 4 medium <b>T4W</b> Type 4 wide <b>T5N</b> Type 5 narrow <b>T5M</b> Type 5 medium <b>T5W</b> Type 5 wide	<b>LCL</b> LEED corner optic left <b>LCR</b> LEED corner optic right <b>BLC</b> Back light control <b>2RL</b> Type 2 rotated left 90° <b>2RR</b> Type 2 rotated right 270° <b>3RL</b> Type 3 rotated left 90° <b>3RR</b> Type 3 rotated right 270° <b>4RL<sup>1</sup></b> Type 4 rotated left 90° <b>4RR<sup>1</sup></b> Type 4 rotated right 270°	<b>AR1<sup>17</sup></b> Arm mount (standard) <b>MAR<sup>3</sup></b> Mast arm <b>WAL</b> Wall mount <b>MOS<sup>4</sup></b> Mounting ordered separately	<b>120</b> 120V <b>208</b> 208V <b>240</b> 240V <b>277</b> 277V <b>347</b> 347V <b>480</b> 480V <b>UNV</b> 120-277V <b>HVU<sup>16</sup></b> 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 <sup>12,15</sup> 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 <sup>5,6</sup> Dimming leads externally accessible (controls by others)		FS1 <sup>11</sup> Single fuse (120, 277, or 347VAC) FS2 <sup>11</sup> Double fuse (208, 240, or 480V)		
FAWS <sup>5,6,20</sup> Field adjustable wattage selector		PCB <sup>10,12</sup> Photocontrol button connected to 0-10V driver		
BL50 <sup>5,20</sup> 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 <sup>13</sup> 7-pin twist lock receptacle connected to D4I compliant driver		Customer specified
SRDR <sup>5,8,13</sup> SR driver connected to Zhaga socket (D4I)		TLP <sup>13,15</sup> 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 <sup>5,8,13</sup> 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 <sup>5,9</sup> Security 50% dimming, 7 hours				
CM50 <sup>5,9</sup> Median 50% dimming, 8 hours				
CS30 <sup>5,9</sup> Security 30% dimming, 7 hours				
CM30 <sup>5,9</sup> 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*

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

<b>FP1</b>	Pole mount single fuse (120V, 277V, or 347V)
<b>FP2</b>	Pole mount double fuse (208V, 240V, or 480V)
<b>FP3</b>	Pole mount double fuse canadian double pull (208V, 240V, or 480V)

#### Photocell Accessories

<b>P400S</b>	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

<b>OPF-AR1-(F)<sup>2,7</sup></b>	Standard arm mount
<b>OPF-AR1-TR7-(F)<sup>2,3,7</sup></b>	Mast arm mount with 7-pin (TR7) receptacle

#### Wall Mount

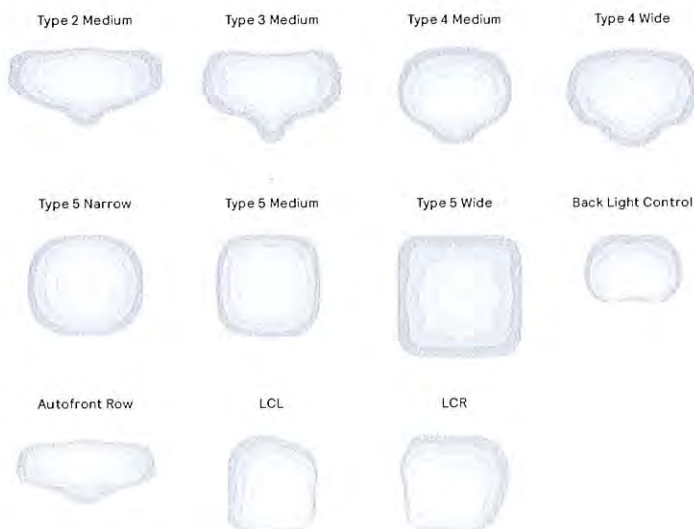
<b>OPF-WAL-(F)</b>	Wall mount bracket
<b>OPF-WAL-TR7-(F)<sup>3</sup></b>	Wall mount with 7-pin (TR7) receptacle

#### Mast Arm

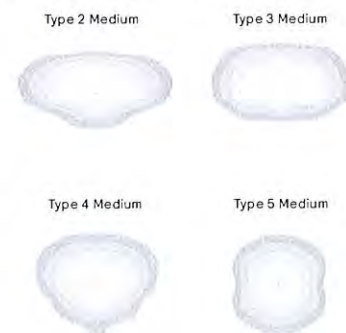
<b>OPF-MAR-(F)<sup>3</sup></b>	Mast arm mount
<b>OPF-MAR-TR7-(F)<sup>3,3</sup></b>	Mast arm mount with 7-pin (TR7) receptacle

### Optical Distributions

#### Site and Area Optics



#### Precision Plus Optics





# 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

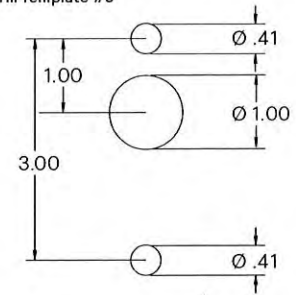
Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions. L70 is the predicted time when LED performance depreciates to 70% of initial lumen output. Calculated per IESNA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

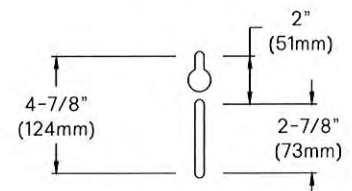
### Dimensions

Standard Drill Pattern

#### Drill Template #5



Standard Arm Mounting Hole Pattern





# OPF-S OptiForm small

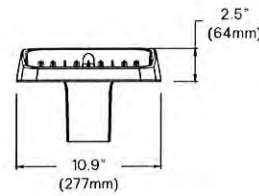
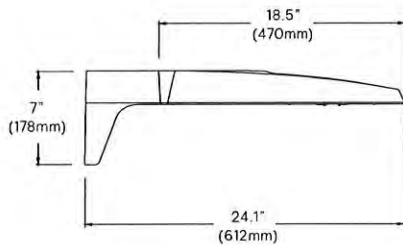
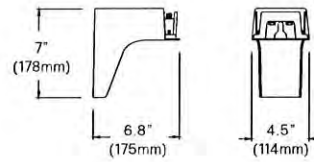
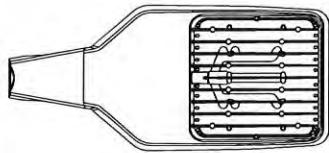
## Site & area luminaire

### Dimensions

#### OptiForm Standard Arm

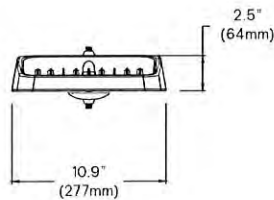
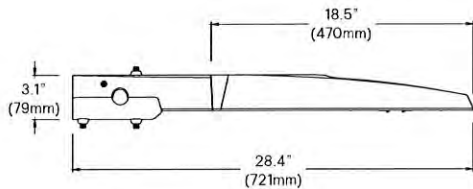
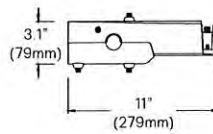
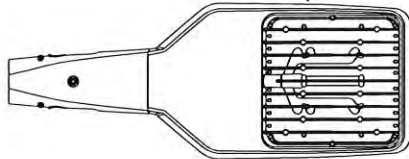
Weight: 11 lb (5.0 kg)

EPA: 0.2 ft<sup>2</sup> (0.018 m<sup>2</sup>)



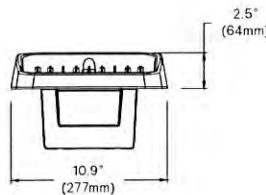
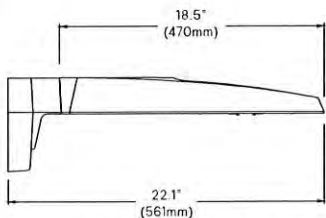
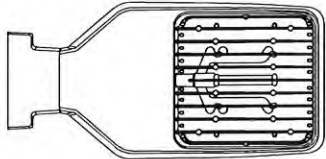
#### OptiForm Mast Arm

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%

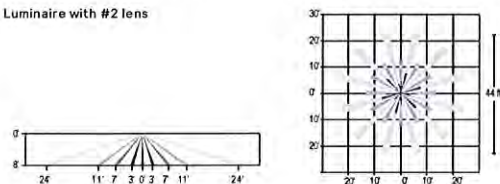
#### Motion response options

**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](http://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](http://signify.com)

#### Warranty

OptiForm luminaires feature a 5-year limited warranty. See [signify.com/warranties](http://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) <sup>1</sup>	Drilling/Tenon Configurations <sup>1</sup>	Drilling Template <sup>2</sup>	Finish	Options <sup>3</sup>			
	<b>CB</b>			<b>23</b>							
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) <sup>6,7</sup> Custom Template See drill template chart for details.	BK Black	FES <sup>6</sup> Festoon Outlet			
				12			BZ Bronze	VDA Vibration Damper			
				14			WH White	AHH <sup>6</sup> Additional Hand Hole			
				15			DG Dark Grey	DR <sup>6,8</sup> Duplex Receptacle			
				16			MG Medium Grey	VPA Vandalproof Screws			
				18			GY3 <sup>8</sup> Light Grey, Smooth	GF1 <sup>6,9</sup> DR with GF1 (120V only)			
		20	7 7 ga. / 0.180"	20	T2D4L 2-3/8" OD x 4" length T2D6L <sup>8</sup> 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)	SSSDGY <sup>8</sup> SolarForm Dark Grey (RAL 7011)	BAC <sup>9</sup> Buy American Compliant			
		25		FP/GV Finished Textured Paint over Galvanized (Specify, ex: MG/GV)			CL1/2 <sup>6</sup> Coupling 1/2"				
		30		OC Optional Color Paint (ex: RAL7024)			CL3/4 <sup>6</sup> Coupling 3/4"				
		L/SSS		6			7 7 ga. / 0.180"	30 35 40	No Drilling/No Tenon P Plain Top	SC <sup>6</sup> Special/ Custom Color (Specify, must supply color chip)	CL1 <sup>6</sup> Coupling 1"
											CL1-1/4 <sup>6</sup> Coupling 1-1/4"
											CL1-1/2 <sup>6</sup> Coupling 1-1/2"
NL1/2 <sup>6</sup> Nipple 1/2"											
NL3/4 <sup>6</sup> Nipple 3/4"											
NL1 <sup>6</sup> Nipple 1"											
NL1-1/4 <sup>6</sup> Nipple 1-1/4"											
NL1-1/2 <sup>6</sup> 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 grey 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 <sup>10</sup>**

Service	Pole Size	12NC	Description (Diameter x Length x Hook)
<b>Anchor Bolts + Templates</b>			
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.		

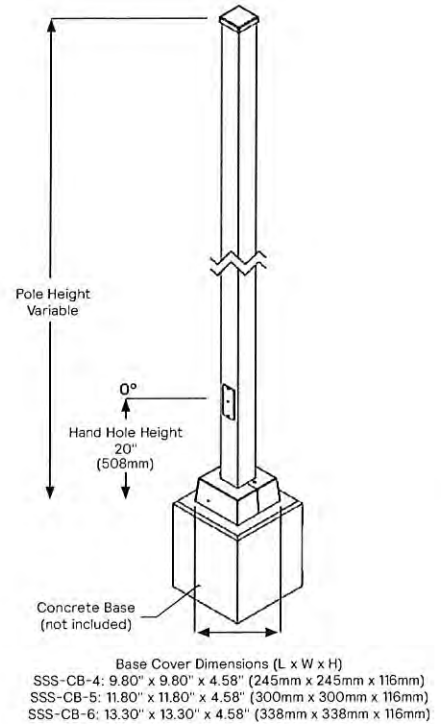
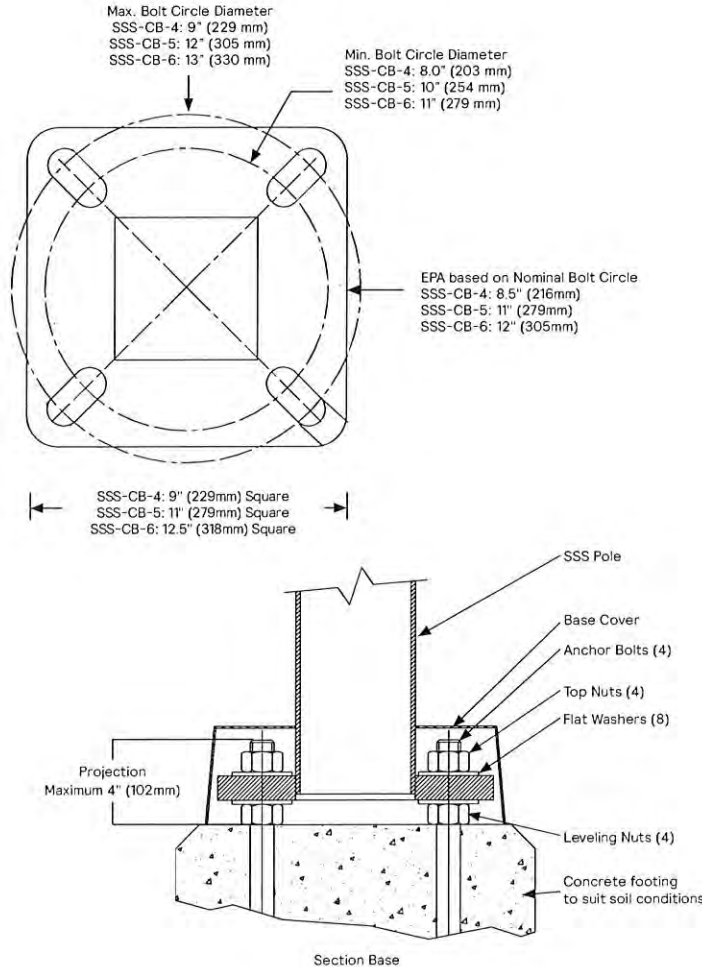






# Poles Straight Square Steel

## Dimensions



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.

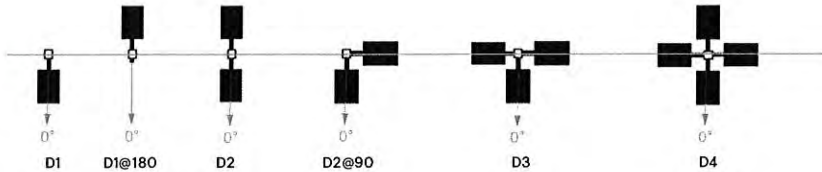
**NOTE:** Factory supplied template must be used when setting anchor bolts. Gardco will not honor any claim for incorrect anchorage placement from failure to use factory supplied templates.



# Poles Straight Square Steel

## Drilling Configuration

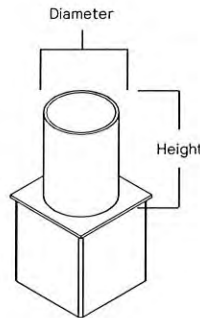
Code	Description
D1	Single luminaire
D1@180	Single luminaire @ 180
D2	Two luminaires @ 180
D2@90	Two luminaires @ 90
D3	Three luminaires @ 90
D4	Four luminaires @ 90



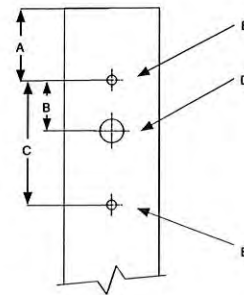
Ref. access door at 0° for all  
 Legacy design places access door at 180°

## 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)



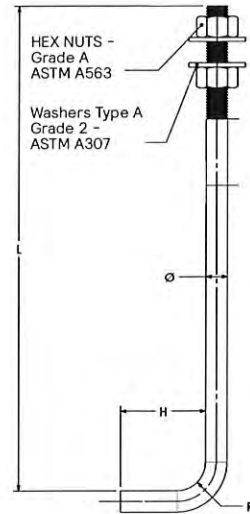
# Poles Straight Square Steel

**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 <sup>2</sup>								CSA - EPA ft <sup>2</sup>							
	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.



# 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](http://signify.com/warranties)

