P.O. BOX 59, CHELSEA, MI 48118 AGENDA

MONDAY, MARCH 25, 2024 - 7:00 P.M.

ORDER OF BUSINESS

- 1. CALL REGULAR PLANNING MEETING TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. REVIEW AND APPROVAL OF THE MARCH 25, 2024 AGENDA
- 4. APPROVAL OF THE JANUARY 22, 2024 REGULAR PLANNING COMMISSION MINUTES
- 5 **CITIZENS' COMMENTS/PARTICIPATION**
- 6. **ZONING ADMINISTRATOR'S REPORT**
- 7. OLD BUSINESS
 - A. MASTER PLAN UPDATE
- 8. **NEW BUSINESS**
 - A. PUBLIC HEARING

SECTION 5.37 – REGULATION OF ANIMALS

- B. APPLICATION 2024-002 PRELIMINARY SITE PLAN ST. VLADIMIR RUSSIAN ORTHODOX CHURCH
- C. ADDITION TO THE TOWNSHIP HALL

9. **COMMITTEE REPORTS**

- A. TOWNSHIP BOARD ACTIVITIES NANETTE HAVENS
- B. SEMCOG DUANE LUICK
- C. CAPT/DART ED GREENLEAF
- D. CAPITAL IMPROVEMENT ED GREENLEAF
- 10. **CORRESPONDENCE**
- 11. FINAL PUBLIC COMMENT
- 12. ADJOURNMENT

LIMA TOWNSHIP PLANNING COMMISSION REGULAR MEETING JANUARY 22, 2024

PRESENT: Marlene Consiglio, Nanette Havens, Ron Howdyshell, Ken Prielipp,

Howard Sias and Else Heller, Recording Secretary.

ABSENT: Ed GreenLeaf and Elizabeth Sensoli.

OTHERS: Zoning Administrator Mariano Sastre, Township Planner Michelle Mariin,

Supervisor Duane Luick. Jim & Darlyn Daratony and Jake & Celina Chase.

Chair Consiglio called the regular meeting to order at 7:00 P.M. with The Pledge of Allegiance to the Flag.

Moved by Ron Howdyshsell, seconded by Ken Prielipp, to approve the January 22, 2024 agenda, as submitted. Motion carried unanimously.

Moved by Ron Howdyshell, seconded by Ken Prielipp, to approve the October 23,, 2023 regular Planning Commission minutes, as submitted. Motion carried unanimously.

CITIZENS' COMMENTS/PARTICIPATION

Jim Daratony, 555 S. Dancer Rd – Gave an update on the new building at Revel Run. He is hoping the building will be done in early March. A schedule of events for Revel Run was received by the Planning Commission.

Celina Chase, 13867 E, Old U.S. 12 – spoke regarding raising chickens. Now she is unable to raise chickens due to the setback restriction on her property zoned R-1A. She owns 1.32 acres. She is seeking permission from the Township to allow chickens on her property. Discussion followed. The Township Board will address this.

ZONING ADMINISTRATOR'S COMMENTS

Zoning Administrator Mariano Sastre, reported for the month of December with four compliance permits issued, for 1 new home, 1 fence, 1 new address and 1 Temp. signs. He also included a 2023 Annual Zoning Action Report Summary. Discussion followed which included Smith's Towing Service, Thornton Farm fence and the Russian Church.

OLD BUSINESS

LIMA TOWNSHIP PLANNING COMMISSION REGULAR MEETING JANUARY 22, 2024 PAGE TWO

MASTER PLAN – UPDATE

The Master Plan draft was authorized for release by the Township Board at the December 11, 2023 meeting. Neighboring communities need to be notified. Moved by Ken Prielipp, seconded by Howard Sias, to table the Master Plan until all neighboring communities are notified. Motion carried unanimously.

NEW BUSINESS

APPROVE 2024 PLANNING COMMISSION MEETING DATES

Moved by Ron Howdyshell, seconded by Howard Sias, to approve the corrected 2024 Planning Commission meeting dates with the February meeting to be on the 19 instead of the 26, due to the Primary Election scheduled for February 27.

ELECTION OF PLANNING COMMISSION OFFICERS

Moved by Howard Sias, seconded by Ken Prielipp, to nominate the present officers for 2024. Motion carried unanimously.

COMMITTEE REPORTS

TOWNSHIP BOARD ACTIVITIES – Nanette Havens reported on the activities for the January 8, 2024 Lima Township Board Meeting. She stated that the Township will have only one precinct instead of two, for elections. The Board approved Poverty Exemption forms for disabled veterans. The Board approved to add on to the Lima Township Hall with new bathrooms and offices. The Board had a special meeting on December 27, 2023 to accept the resignation of Teresa Reynhout as of December 31, 2023 and to appoint Ann Kwaske as clerk for Lima Township, effective January 1, 2024. The Board approved Haines Accounting as the new accounting firm for Lima Township.

SEMCOG – Supervisor Duane Luick stated that SEMCOG will have a meeting on February 7, 2024.

CAPT/DART – No report.

CAPITAL IMPROVEMENT – No report

.

LIMA TOWNSHIP PLANNING COMMISSION REGULAR MEETING JANUARY 22, 2024 PAGE THREE

CORRESPONDENCE

Chair Marlene Consiglio stated a letter was received from Dexter Township regarding updating of their Master Plan.

FINAL PUBLIC COMMENT.

Howard Sias asked what happened to the cloth map that was hanging in the Township Hall? It was stated it was removed to be cleaned because of the mole that was found.

ADJOURNMENT

Motion by Howard Sias, seconded by Ken Prielipp, to adjourn the Planning Commission meeting at 7:50 P.M. Motion carried unanimously.

Note: These minutes are not intended to be a verbatim representation of the speaker's comments, but only highlight various points and ideas presented.

Respectfully submitted,

Else Heller Recording Secretary 117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

TO: Lima Township Planning Commission

FROM: Paul Montagno, AICP, Township Planner

Michelle Marin, AICP Candidate

DATE: March 18, 2024

RE: Regulations of Animals Zoning Ordinance Amendment

The following memo details the current regulations and offers a recommended update to the Regulation of Animals in the Zoning Ordinance. In response to a request to permit the keeping of chickens in more residential zoning districts, we also reviewed and offered recommended updates to the complete section regulating the keeping of animals in the Township. The proposed language greatly simplifies what was previously very complicated zoning language. Generally, the proposed language focuses on the creation of standard regulations for keeping animals, based on best practices, that are designed to prevent nuisance.

Current Regulation

The Zoning Ordinance categorizes animals into three (3) different classes. They include Class I (household pets), Class II (larger farm type animals like horses or cows), and Class III (small farm type animals like chickens or rabbits). The Township currently permits Class II and Class III animals, including chickens, within the AG-1 (5-acre minimum), AG-2 (5-acre minimum), and RC (10-acre minimum) zoning districts. They are further permitted as a special use in the RR (3-acre minimum) zoning district. Section 5.37.7 of the Zoning Ordinance permits keeping up to six (6) chickens without special authorization on a parcel zoned RR, provided that the outlined regulations are followed. These regulations include maintaining enclosures at least fifty (50) feet from any property line, enclosing chickens at night, and storing both chickens and their feed away from predators. The raising or keeping of chickens is prohibited in other zoning districts, including smaller lot single-family residential districts. The Michigan Right to Farm Act does preempt local zoning regulations regarding livestock for farming operations if they are kept in compliance with the Generally Accepted Agricultural Management Practices (GAAMPs) developed by the Michigan Department of Agriculture & Rural Development (MDARD). The Act does not apply to the keeping of chickens or other animals for personal use which is not part of an agricultural

operation. As such, the Township can enact restrictions on the keeping of chickens or other animals for personal use as an accessory to a principal residential use.

The Regulation of Class II and III animals on non-farm properties currently offers suggested stocking densities and maintenance requirements, including enclosure placement.

Recommended Zoning Ordinance Updates

The attached document details our recommended draft ordinance amendment to all of Section 5.37: Regulations of Animals. The proposed changes generally include:

- Expand the keeping of Class II and Class III animals as an accessory to a residential use to the RR zoning district by right, with standards regulations without special land use approval.
- Amend the stocking densities for Class II and Class III animals to scale with the lot size, up to 10 acres. Larger lots must be fully compliant with GAAMPs.
- Include enclosure size requirements in addition to placement requirements.
- Prohibit the slaughtering of all animals on non-farm properties.
- Reorganize and simplify existing maintenance requirements for Class II and Class III, including removing any recommendations.
- Clearly differentiate between non-farm keeping of Class II and Class III animals and commercial farm operations that are compliant with GAAMPs.
- Require a zoning compliance permit for any non-farm keeping of Class II and Class III
 animals for properties. Such a permit would be easier to either renew or revoke in the
 case of violations.
- Add a discussion of nuisance procedures to Section 5.37.5 "Conformance to Law" applicable to all keeping of animals in the Township.

For specific regulations for the keeping of chickens, we recommend the following updates:

- Permit the Keeping of Chickens in the R-1A, R-1B, R-1C, or R-1D zoning districts with standard regulations in addition to the RR zoning district.
- Reduce the required enclosure setback from fifty (50) feet to the minimum yard setbacks for principal structures in the district to more broadly accommodate households seeking to incorporate backyard chickens.

Regulations of Animals Zoning Ordinance Amendment March 18, 2024

We look forward to discussing this with you at your next Planning Commission meeting. Please do not hesitate to contact us with any questions or concerns.

Respectfully submitted,

CARLISLE/WORTMAN ASSOC.,INC

Paul Montagno, AICP

Principal

CARLISLE/WORTMAN ASSOC., INC.

Michelle Marin, AICP Candidate

Community Planner

Section 5.37. Regulation of Animals.

Definitions

Class I Animals include domesticated household pets weighing less than one hundred fifty (150) pounds.

Class II Animals include animals that are normally part of the livestock maintained on a farm, including Bovine and like animals, Equine and like animals, Swine and like animals, Ovine and like animals, and other similar animals weighing in excess of 75 pounds and not otherwise specifically classified in this definition.

Class III Animals include rabbits (not maintained or kept as domesticated household pets), poultry, wildfowl, and other similar animals weighing less than 75 pounds and not otherwise specifically classified in this definition.

- 5.37.1. **Class I Animals** may be maintained in any zoning classification district, subject to the restrictions of this Ordinance and other applicable Township Codes.
- 5.37.2. **Class II and Class III Animals** may be maintained as part of an agricultural operation in the RC, AG-1, and AG-2 Zoning Districts only. Class II and Class III animals should be maintained in accordance with all applicable Generally Accepted Agricultural Practices (GAAMPS) from the Michigan Department of Agriculture and Rural Development. On any premises upon which animals are situated or maintained in the Township, garbage, refuse, offal, and the like shall not be brought upon the premises and fed to animals; said action is hereby deemed to be a nuisance.

5.37.3. **Exceptions**:

Keeping of Class II and Class III animals as an accessory to a residential use in RC, AG-1, AG-2, and RR Zoning Districts is exempt from the requirements of 5.37.2, subject to the regulations provided in Section 5.37.4.

Keeping of chickens as an accessory to a residential use in R-1A, R-1B, R-1C, or R-1D zoning Districts are exempt from the requirements of 5.37.2, subject to the regulations provided in Section 5.37.5.

- 5.37.4 **Keeping of Class II and Class III Animals in Residential Districts.** Keeping of Class II and Class III animals as an accessory to a residential use in the RC, AG-1, AG-2, and RR zoning districts are subject to the following requirements:
- A. A property owner must submit an application for a zoning compliance permit per Section 3.4. which demonstrates compliance with the regulations of the zoning ordinance.

- B. While horses and equine type animals are considered Class II, commercial and private stables are regulated under Section 5.25.2, herein.
- C. This activity shall remain an accessory use, incidental to the principal use of the lot for the principal dwelling of the property owner or their tenants.
- D. Class II animals may be kept at the following densities:
 - 1. The keeping of up to two (2) Class II animals shall be permitted as an accessory to the principal use of a property for a residence that has a minimum lot area of three (3) acres and a minimum width of 200 feet.
 - 2. One (1) additional Class II animals shall be permitted per each additional acre for residential parcels up to ten (10) acres.
 - The keeping of Class II animals on non-farm parcels of ten (10) acres or more shall be maintained pursuant to GAAMPs established by the Michigan Department of Agriculture.
- E. Class III animals may be kept at the following densities:
 - 1. The keeping of up to thirty (30) Class III animals shall be permitted as an accessory to the principal use of a property for a residence that has a minimum lot area of three (3) acres and a minimum lot width of 200 feet.
 - 2. One (1) additional Class III animal shall be permitted per each one-tenth (1/10) acre for residential parcels up to ten (10) acres.
 - 3. The keeping of Class III animals on non-farm parcels of ten (10) acres or more shall be maintained pursuant to GAAMPs established by the Michigan Department of Agriculture.
- F. There shall be adequate fencing, or other restraining device, for the purpose of maintaining animals within the restricted areas provided for in this section.
- G. The refuse and waste resulting from the maintenance of animals shall be controlled upon the premises and shall be cared for or disposed of within a reasonable time so as to minimize hazards of health and offensive effects upon neighboring people and uses.
- H. All feed and other substances and materials on the premises for the maintenance of animals shall be stored in appropriate enclosed receptacles and structures, excepting such storage as may otherwise be accomplished without adversely affecting the neighbors of the premises or the public health, safety, and welfare of the citizens of the Township.

- I. Structures shall be provided to house, confine, and shelter animals. Structures housing shall be located no nearer than fifty (50) feet to any adjacent lot line. The size of all accessory buildings and structures situated on a premises shall not exceed a total of one hundred fifty (150) square feet for each complete acre of land area, provided that no single building or structure shall exceed the size of two thousand (2,000) square feet. The following minimum sized structures shall be provided for each animal:
 - 1. For class II animals:
 - i. Bovine and like animals, fifty (50) square feet.
 - ii. Equine and like animals, fifty (50) square feet.
 - iii. Swine and like animals, twenty (20) square feet.
 - iv. Ovine and line animals, eight (8) square feet.
 - v. Other Class II animals shall be provided with a minimum of fifty (50) square feet of structure per animal.
 - Class III animals shall be provided with a structure having a minimum size of four (4) square feet of floor area per animal. If the structure includes multiple levels, floors, layers, etc., then the square footage shall be computed by counting each level, floor, or layer separately.
- J. Slaughtering of any animals is prohibited.
- K. The standards of this Section shall not apply to the keeping of animals as part of an active farm operation maintained in conformance with the Right to Farm Act and GAAMP standards.
- 5.37.5 **Keeping of Chickens in Residential Districts.** The keeping of chickens for non-commercial purposes is permitted in the R-1A, R-1B, R-1C, or R-1D districts when kept in such a manner that the following standards are complied with:
- A. A property owner must submit an application for a zoning compliance permit per Section 3.4. which demonstrates compliance with the regulations of the zoning ordinance.
- B. This activity shall remain an accessory use, incidental to the principal use of the lot for the principal dwelling of the property owner or their tenants.
- C. No more than six (6) female chickens may be kept.

- D. Roosters, male chickens, or any other type of class of fowl of poultry are prohibited.
- E. Chickens must be kept as family pets or to lay eggs for personal consumption only.
- F. The chickens shall be provided with a covered, predator-proof enclosure that is thoroughly ventilated, of sufficient size to admit free movement of the chickens, designed to be easily accessed, cleaned, and maintained by the owners, and be at least two (2) square feet per chicken in size. All enclosures for the keeping of chickens shall be so constructed or repaired as to prevent rats, mice, or other rodents from being harbored underneath, within, or within the walls of the enclosure.
- G. The chickens shall be shut into the enclosure at night, from sunset to sunrise.
- H. All feed shall be stored in rodent and predator-proof containers.
- I. A person must not keep chickens in any location on the property other than in the rear yard.
- J. All containers, shelters, pens, and enclosures shall conform to the minimum yard setbacks for the zoning district.
- K. Slaughtering of chickens is prohibited.
- L. A property owner must submit an application for a zoning compliance permit per Section 3.4.
- 5.37.5 **Conformance to Law.** In reference to Sections 5.37.1, 5.37.2, 5.37.3, and 5.37.4 above, the following may apply: All federal, state, and local laws and regulations to include, but not limited to the Michigan Right to Farm Act, all adopted Generally Accepted Agricultural Management Practices and all Michigan Department of Agriculture rules and regulations. All violations of Michigan Right to Farm Act are investigated and can be reported to the Michigan Department of Agriculture.
- Exotic/Wild Animals. Except as authorized in a wildlife preserve or zoological exhibit approved by the Township, exotic and/or wild animals shall not be permitted to be maintained in the Township, temporarily or permanently. For purposes of this section, the term exotic and/or wild animal shall mean an animal not otherwise defined as a Class I, II, or III animal, and which is not customarily domesticated and customarily devoted to the service of mankind. Exotic and/or wild animal also means any animal that a person is prohibited from possessing by law. The characterization of an animal as being exotic and/or wild shall not be altered by virtue of the fact that one (1) or several generations of the animal in question have been maintained in captivity. It shall be unlawful for the owner, possessor,

or any other person in control of a lot, tract, or parcel of land within Lima Township, or any residence or business premises situated thereon to knowingly permit any other person to be in possession of an exotic animal upon the property, residence, or premises.





117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: March 11, 2024

Site Plan Review For Lima Township, Michigan

Applicant: St. Vladimir Russian Orthodox Church

Project Name: New Cathedral St. Vladimir Russian Orthodox Church

Plan Date: February 28, 2024

Location: 9900 Jackson Road

Zoning: AG-1 Agriculture

Action Requested: Site Plan Approval

PROJECT AND SITE DESCRIPTION

The applicant is requesting site plan approval for a new cathedral and other site modifications at the existing St. Vladimir's Russian Orthodox church located at 9900 Jackson Road. The property is within the AG-1 Agriculture Zoning District on parcel ID # G - 07-23-100-022.

The existing conditions of the property include a church with a corresponding parking area, a 3,236-square-foot multi-purpose building, a 3,236-square-foot storage building, a cemetery, and a roughly 400-foot-long gravel drive. The multi-purpose building includes, among other uses, a school. Most of the site is open space used for occasional events.

The site plan proposes a new 5,183-square-foot cathedral with a bell tower and three (3) domes north of the existing parking area, a new parking area southwest of the cemetery, a dumpster enclosure, and the reconfiguration of the gravel drive into a hard surface parking area. A new driveway is proposed around the perimeter of the proposed cathedral. All the existing structures are proposed to remain. Figure 1 shows the aerial view of the subject site

and vicinity, and Table 1 shows the zoning and uses of the subject site and surrounding properties.

Figure 1. Aerial Image of Subject Site and Vicinity



Source: Nearmap.com

Table 1. Surrounding Property Details

	North	South	East	West
Zoning District	I-94	AG-1: Agriculture	AG-1: Agriculture	AG-1: Agriculture
Land Use	I-94	Single family residences	Single family residences	Single family residences

PROCEDURE

In an AG-1 zoning district, churches require Special Land Use permits. Churchesare a special land use in the AG-1 zoning district. Special Land Use permits have previously been issued for the church in 2017 and for the cemetery and private school in 2018. The permits were issued with the condition that they comply with the approved final site plans.

Therefore, the Special Land Use permit must be reissued to include the details of the proposed site plan, including the cathedral.

A Special Use Permit is subject to the special use procedures in Section 3.3. The procedure includes holding a public hearing and making findings about the proposed use as required in the Zoning Ordinance.

Items to be Addressed: The applicant must apply for a new/amended Special Land Use permit to allow for the use of the site for a cathedral/church.

AREA, WIDTH, HEIGHT, SETBACKS

The AG-1 zoning district dimensional requirements are detailed in Table 2. The applicant provided dimensional requirement details on Sheet 4 of the site plan, but the incorrect setback and lot coverage requirements were referenced. Three (3) domes are proposed for the cathedral, the tallest of which will reach a height of 91 feet and 6½ inches. The maximum building height in the AG-1 zoning district is thirty-five (35) feet, but domes and bell towers are exempt from height regulations.

Table 2. Dimensional Requirements

	Required	<u>Provided</u>	<u>Compliance</u>
Lot Area	5 acres	11.21 Acres	Complies
Lot Width	330 Feet	815.86 Feet	Complies
Front Setback	50 Feet	Not provided	Cannot be determined
Side Setback	50 Feet, as set forth in Section 5.14	Not provided	Cannot be determined
Rear Setback	30 Feet	Not provided	Cannot be determined
Off-street parking Setback	5 Feet, side & rear lot lines	Not provided	Cannot be determined
Lot Coverage	10% Max	2.87%	Complies
Floor Area Ratio	10% Max	3.65%	Complies
Building Height	35 feet Max	Roof: 31 Feet 7 Inches	Complies
	33 leet Max	Dome: 91 Feet 6 ½ Inches	

Items to be Addressed: Applicant shall provide distances of all proposed structures and parking areas to the property lines.

PARKING AND LOADING

The project includes the construction of seventy-six (76) new parking spaces to the east (Lot F) and southeast (Lot E) of the proposed cathedral, bringing the total number of parking spaces on-site to one hundred and thirty-nine (139). The proposed parking spaces range

from eight (8) to ten (10) feet wide and are twenty (20) feet long. Section 11.5.6. requires a minimum parking space width of nine (9) feet, except for barrier free spaces, which may be eight (8) feet wide with a five (5) foot barrier free area. A twenty-four (24') foot wide drive aisle to accommodate two-way traffic, and a fifteen (15') foot wide one-way traffic drive traveling around the west and north side of the cathedral.

The applicant has indicated that the proposed parking areas will be hard surfaced with asphalt and concrete wheel blocks will be at the top of each parking space. Section 11.5.1 requires parking areas for commercial properties to be hard-surfaced and graded to dispose of surface water.

Section 11.2.7. establishes that places of assembly shall count every twenty-four (24) inches of benches, pews, or similar seating as one (1) seat. Sheet 4 indicates that the expected occupancy for the cathedral is three hundred (300) people. The provided floor plans do not include seating details, and it appears that the assembly area will consist of room for congregates to stand. Table 3 indicates the parking requirements for the new cathedral.

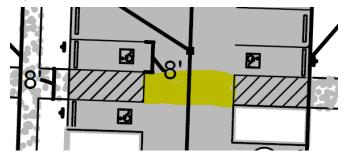
Table 3. Off-Street Parking Requirements	-Street Parking Requirements
--	------------------------------

	Requirement	No. of Spaces Required	No. Spaces Provided	Compliance
Places of Assembly	1 per 3 seats OR 1 per 24 inches of bench/pew	300 people (per applicant) = 100 spaces	76 new spaces 139 total spaces on site	Complies
Barrier Free	5 spaces for lots of 101- 150 spaces	139 total spaces = 5 barrier free	11 barrier free spaces, including 5 new	Complies

Five (5) total barrier free spaces are provided in the new Lot F parking area, creating eleven (11) total barrier free spaces on the site. There is one barrier free parking space on the east side of Lot F, but no crosswalk striping is provided across the drive aisle (see Figure 2).

Details of Lot D which provided access to the cemetery are not provided. Aerial imagery shown in Figure 1 shows that this parking lot is unstriped.

Figure 2. Barrier free spaces in Lot F.



Items to be Addressed: (1) The applicant shall adjust the parking lot dimensions to comply with the requirements in Section 11.5.6. (2) Applicant shall provide crosswalk striping across

the drive aisle to provide clear pedestrian access to barrier free space. (3) Applicant shall provide parking details for Lot D.

SITE ACCESS AND CIRCULATION

Site access is proposed from Jackson Road from an existing site entrance that accommodates two (2) exiting traffic lanes and one (1) entering traffic lane. This interior drive provides direct two-way access to Lot C, Lot B, and Lot E. Lot F is accessed by traveling through Lot E. A one-way access road exits the northwest corner of Lot B and circulates around the proposed cathedral. A twenty-foot-wide separate drop-off lane is proposed west of the cathedral, branching off and then reconnecting to the one-way access drive. Lot G is exclusively accessed by this one-way access drive, which feeds into Lot F's two-way drive aisle. Lot A – exclusively for barrier free parking – is accessed from a one-way drive that branches off near the property entrance. Vehicles leaving Lot A must exit the site by passing through Lot B. Access details through Lot D and the cemetery are not provided.

Items to be Addressed: Applicant shall include circulation details for Lot D and the cemetery to indicate how new parking lot areas will connect with existing interior traffic flow.

FLOOR PLAN AND ELEVATIONS

Building elevations and floor plans are provided on Sheets A1 through A6, on a separately sealed plan set. The floor plans indicate a partial basement level, a ground floor level, and an upper level that is largely open to the ground floor assembly area. The ground floor assembly area will be on a slab at grade, but a basement area will sit below the ground floor entry area. The basement, accessed by an interior staircase and elevator, will include a furnace room and an open area for unidentified use. The ground floor level includes one (1) building entrance on each of the west, north, and south building elevations and two (2) building entrances on the east side. In addition to the cathedral assembly area, the ground floor level will include an alter area, two (2) vestries, two (2) concessional areas, a coat closet, restrooms, a nursery/lactation room, storage, janitors' closet, and a roughly one hundred and twenty (120) square foot area designated for retail. The upper level includes a choir loft, offices, a conference room, a library, and a restroom.

The elevations indicate three (3) domes, the largest of which has a twenty-three and a half foot (23'-6") diameter. A bell tower with a dome is depicted on the west end of the building. The height of the bell tower is not offered. The highest dome, centered within the structure, is indicated to be over ninety-one and a half (91'-6 ½") feet in height. The primary building height is stated to be thirty-one feet and seven inches (31'-7") in height. The zoning ordinance qualifies towers as a structure that must comply with the height limitations of other structures in the zoning district.

The roof is proposed to be metal construction and the walls will be either stucco or siding. Renderings of the cathedral were submitted by the applicant indicating a mostly white

structure with dark gold/brown roofs. The applicant should clarify the colors and façade materials on the provided elevations. Narrow, arched windows are depicted on the provided elevations.

Items to be Addressed: Applicant shall clarify the façade materials and colors.

LANDSCAPING

A landscape plan was included on Sheet 7, indicating the location and species of the proposed plantings. All the existing trees are proposed to remain. Table 4 details the landscaping requirements set forth in Section 6.2 of the zoning ordinance. Greenbelt landscaping is required along the road frontage; Sheet 7 indicates that the project is exempt from providing greenbelt landscaping, but no such exemption exists. Therefore, as detailed in Table 4, further landscaping along the road frontage is required.

Table 4. Landscaping Requirements

	Requirement	Provided	Compliance	
Greenbelt	1 deciduous or evergreen tree + 6 shrubs every 30 feet in front yard setback	100+ feet with no trees	Does not comply	
Parking Lot	1 tree for every 8 spaces, not including perimeter landscaping unless approved by Planning Commission 76 new spaces = 10 trees within the parking lot	2 Gingko trees provided in parking lot interior 9 additional trees located along parking lot perimeter	Planning Commission may consider alternative parking lot landscaping	
Screening between land uses	6 ft vertical landscaping or wall between this parcel and adjacent residential parcels. 80% opacity	Partial screening (see Figures 3 and 4)	Does not comply	
General site landscaping	In addition to any other requirements, 10% of site area must be landscaped	71% of the site is open space. 40 trees on site to be preserved. 8 trees and 49 shrubs provided around building	Complies	

The parking lot landscaping requirements indicate that the required parking lot landscaping islands must be within the interior of the parking lot, but Section 6.2.6.(B) permits the Planning Commission to approve alternative landscaping along the parking lot perimeter if appropriate. Furthermore, Sheet 7 indicates that the site is exempt from providing screening between land uses since the project is in the property interior. The Planning Commission and Township Board approved a screening waiver along the western property line in 2018. However, this waiver does not carry over into the new proposed site plan, so the screening requirements must be assessed according to the requirements of Section 6.2.5. unless the

Planning Commission and Township Board approve a new waiver. Figures 3 and 4 show the areas where landscape screening is required.

Figures 3 + 4. Missing screening between land uses





Items to be Addressed: (1) Applicant to amend site plan to provide sufficient greenbelt landscaping and screening between residential land uses. (2) The Planning Commission to consider perimeter parking lot landscaping instead of interior parking lot landscaping.

LIGHTING

No lighting plan was provided with the site plan submission.

Items to be addressed: The applicant must provide a lighting plan with the final site plan that includes a photometric map, indicating lighting levels along the property lines.

SIGNS

No signs are indicated on the site plan. Any new signs must receive a separate permit from the Township Zoning Administrator prior to construction.

Items to be Addressed: None.

DRAINAGE AND STORMWATER

A grading and drainage plan is provided on Sheet 5, and a soil erosion and sedimentation control plan is provided on Sheet 6.

Items to be Addressed: We defer to the Township Engineer to review and provide comments on the grading, drainage, soil erosion, and sedimentation control plan.

SPECIAL USE STANDARDS

As a special use in the AG-1 District, the proposed use is subject to the review standards set forth in Section 3.3.4, *Basis of Determinations for Special Uses* of the Zoning Ordinance. The Planning Commission shall review and make a recommendation to the Township Board on the particular circumstances and facts for the proposed special use in terms of the following standards and required findings:

- A. Will be harmonious and in accordance with the general objectives of the Lima Township Master Plan.
- B. Will be designed, constructed, operated, maintained and managed so as to be harmonious and appropriate in appearance with the existing or intended essential character of the area.
- C. Will not be hazardous or disturbing to existing nearby uses.
- D. Will be compatible with existing and adjacent uses of land and will promote the use of land in a socially and economically desirable manner.
- E. Will be adequately served by essential public and/or private water supply and wastewater treatment services and/or facilities or that the persons responsible for the establishment of the proposed special use will provide adequately any such service or facility.
- F. Will not create excessive additional public costs and will not significantly decrease property values of surrounding properties.
- G. Will meet all requirements and standards of this Ordinance and any other applicable laws, standards, ordinances, and/or regulations.
- H. Will be harmonious with the natural environment and/or unique natural features.

Items to be Addressed: The Planning Commission should discuss standards set forth in Section 3.3.4, and make findings as they relate to the proposed site plan for the church.

Items to be Addressed: The Planning Commission should go through each of the required findings and determine if the proposed use complies, or if special conditions are necessary to ensure compliance.

RECOMMENDATIONS

In general, the proposed plan is consistent with the requirements and recommendations of the Zoning Ordinance. However, there are several deviations, and the site plan is not a complete site plan. The plan must include all required information indicated in Section 7.12. of the Zoning Ordinance. If this plan is approved, it will be kept on file as the record set for this site. We recommend that the Planning Commission refrain from taking action on the plan until the applicant addresses the following outstanding items.

- 1. The applicant must apply for a new Special Land Use permit to allow for the use of the site for a cathedral/church.
- 2. Applicant shall provide distances of all proposed structures and parking areas to the property lines.
- 3. The applicant shall adjust the parking lot dimensions to comply with the requirements in Section 11.5.6.
- 4. Applicant shall provide crosswalk striping across the drive aisle to provide clear pedestrian access to barrier free space.
- 5. Applicant shall provide parking details for Lot D.
- Applicant shall include circulation details for Lot D and the cemetery to indicate how new parking lot areas will connect with existing interior traffic flow.
- 7. Applicant shall clarify the façade materials and colors.
- 8. Applicant to amend site plan to provide sufficient greenbelt landscaping and screening between residential land uses.
- 9. The Planning Commission to consider perimeter parking lot landscaping instead of interior parking lot landscaping.
- 10. The applicant must provide a lighting plan with the final site plan that includes a photometric map, indicating lighting levels along the property lines.
- 11. We defer to the Township Engineer to review and provide comments on the grading, drainage, soil erosion, and sedimentation.

12. The Planning Commission should discuss standards set forth in Section 3.3.4, and make findings as they relate to the proposed site plan for the church.

Respectfully submitted,

CARLISLE/WORTMAN ASSOC.,INC

Paul Montagno, AICP

Principal

163-2401

CC: Luick, Township Supervisor

Kwaske, Township Clerk Sastre, Zoning Administrator Lalik, Township Engineer McElrath, Applicant CARLISLE/WORTMAN ASSOC., INC. Michelle Marin, AICP Candidate

Community Planner



Land Development • Land Surveying • Municipal • Wireless Communications • Institutional • Transportation • Landfill Services

March 18, 2024

Lima Township 12172 Jackson Rd. P.O. Box 59 Chelsea, MI. 48118

Attn: Mariano Sastre, Township Zoning Administrator

Re: St. Vladimir Russian Orthodox Church

Preliminary Site Plan Review Plan Date: February 28, 2024

Dear Mariano:

St. Vladimir Russian Orthodox Church is located at 9900 Jackson Road, in Section 23. The church building exists and is served with a well and drain field. This phase of the project consists of constructing a new cathedral, proposed septic tank west of the proposed cathedral, proposed well north east of the cathedral, proposed parking lots around the building and an access drive with a fire route around the proposed building. Pursuant to the Township's request I have reviewed the final site plan for the proposed school building for the referenced project per Township Ordinance Section 7.7. I have the following comments for the Planning Commission's consideration:

General Comments

- 1. A proposed well and septic tank are shown. Permits will be required from Washtenaw County. WCEHD to review proposed connection to existing field.
- 2. A utility plan will need to be provided for Final Site Plan. Pipe sizes, lengths, slopes, inverts and materials should be shown.
- 3. We recommend the Planning Commission should allow the Chelsea Area Fire Authority (CAFA) to review the layout plan.

Grading Plan

- 1. Grading is being shown wholly surrounding the existing trees between the cemetery and the proposed parking area. Show these trees as being removed, or show what tree protection will be provided in this area.
- 2. Show detailed grading for the ADA routing to the proposed cathedral. Show where level landings are to be located on the ADA ramps.

3. More detailed grading needs to be shown on the Final Site Plan. Proposed contours will need to be extended to the grading limits of the proposed improvements. Spot elevations should be provided every 50' along hard surfaces and at each point of curvature.

Storm water management

- 1. Calculations for the additional phase account for the increase in impervious area. The revised basin is shown as being sized appropriately for the proposed improvements.
- 2. Capacity calculations for the storm sewer will need to be provided for Final Site Plan.

Soil Erosion Sediment Control

1. Silt fence should be brought to the top of the drainage swale to prevent from entering the detention basin during construction. See markup in figure below.

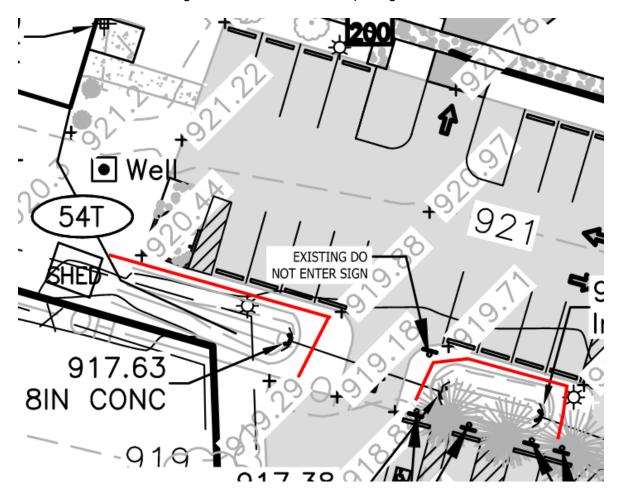


Fig. 1 Silt Fence Revision

Review Memorandum

March 19, 2024 Page 3

The applicant has acknowledged that they are aware that the following permits are required prior to construction:

- 1. Washtenaw County for proposed sewer and well water connections.
- 2. Soil Erosion and Sedimentation Control Permit from the Chelsea Area Construction Agency.
- 3. Planning Commission Review for Special Use Permit.

If you have any questions regarding my review, please call or email. Thank you.

Sincerely,

MIDWESTERN CONSULTING, LLC

Adam J. Lalik, P.E.

PC. 2024-002

LIMA TOWNSHIP

ESTABLISHED

WASHTENAW COUNTY
MICHIOAN

APPLICATION FOR SITE PLAN APPROVAL

	This application is submitted for approval of the following plans.
	This application is submitted for approval of the following plans. Preliminary Site Plan Combined Preliminary and Final Minor Site Plan Amendment
1.	Name of Proposed Development NEW CATHEORAL, ST. VLADIMIR RUSSIAN ORTHOXOX CHURCH
2.	Present Zoning AG-1
3.	General Location or Address Site 9900 JACKSON ROAD
4.	Legal Description (Attach separate sheet, if necessary) SEE SHEET
5,	Tax Parcel Number(s) 6-07-23-100-022
5.	Applicant-Name DANGEROUS ARCHITECTS P.C.
	Address 104 SOUTH MAIN ST. CHELSEA
	Phone#734 475 3660
7.	Property Owner-Name ST. VLADIMIR, RUSSIANI CRITHOLOX CHURCH
	Address 9900 JACKSONS, ROND, DEXTER
	Phone # 475 - 4590
3,	Applicant's Interest in Property ARCHTECT
) .	Description of Proposed Use of Property RELIGIOUS STRUCTURE
.0,	Estimated Cost of Project (i.e. Site Preparation, Construction etc.) \$_3_1000,000
hpp	licant(s) represent that he/she is the owner of the subject property or is acting on behalf of the above listed owner(s), herewith files 3+13 copies of the above identified Site Plan.
h	Date
	Lima Township Clerk hereby certifies receipt of the application, opies of the Site Plan, and review fee in the bunt of \$
ign	ature of Clerk Date

PROPERTY DESCRIPTION:

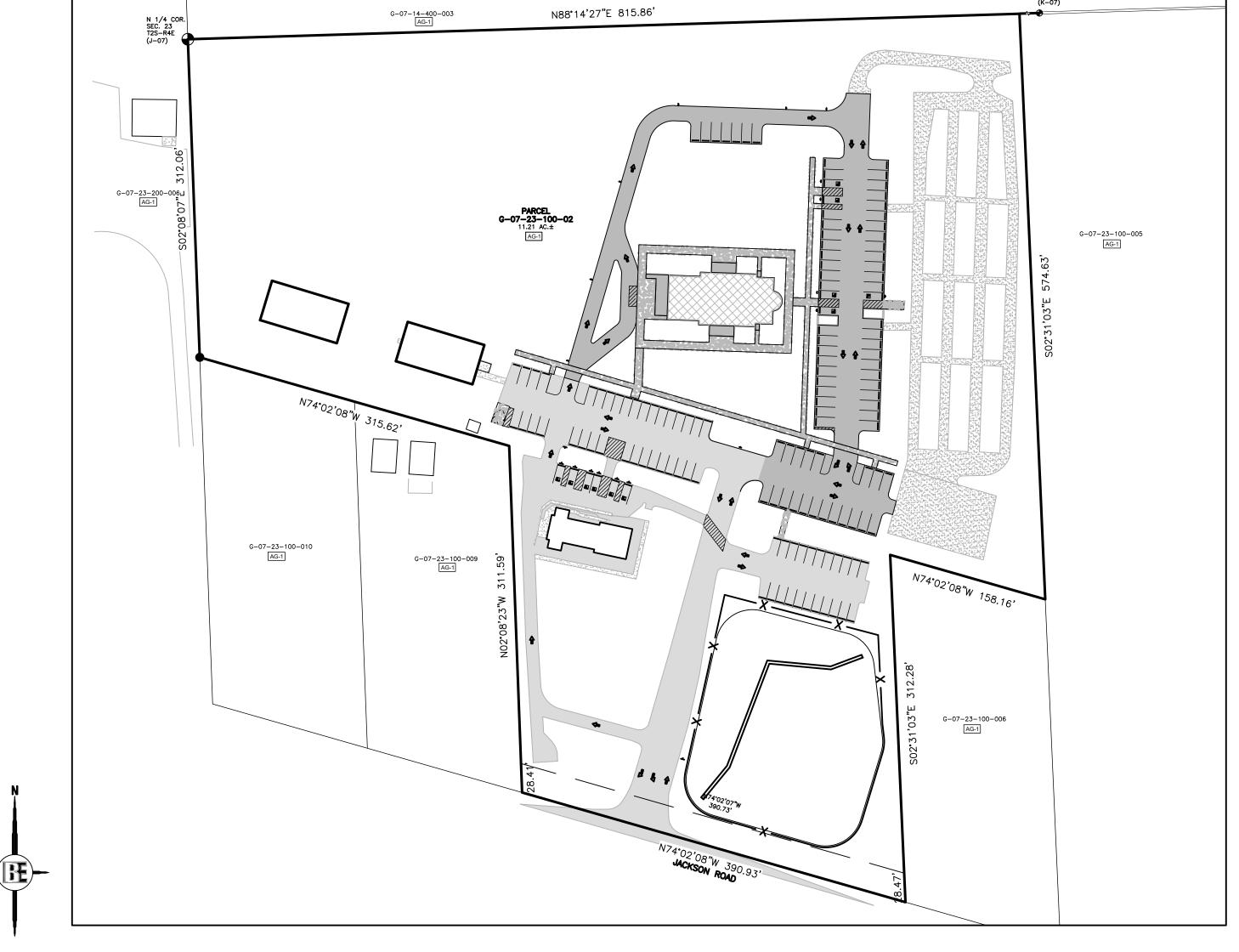
PROPERTY DESCRIPTION PER WASHTENAW ENGINEERING PLANS DATED

COMMENCING AT THE NORTHEAST CORNER OF SECTION 23, T2S, R4E, LIMA TOWNSHIP, WASHTENAW COUNTY. MICHIGAN; THENCE S86'46'50"W 1820.26 FEET ALONG THE NORTH LINE OF SAID SECTION TO THE POINT OF BEGINNING; THENCE S03'58'40"E 574.63 FEET; THENCE N75'29'45"W 158.16 FEET; THENCE S03'58'40"E 340.75 FEET; THENCE N75'29'45"W 390.93FEET; THENCE N03"36'00'W 340.00 FEET; THENCE N75'29'45"W 315.62 FEET; THENCE N03"36'00'W 312.08 FEET ALONG AN EXISTING FENCE LINE TO THE NORTH 1/4 CORNER OF SAID SECTION; THENCE N86"46'50"E 815.86 FEET ALONG THE NORTH LINE OF SAID SECTION TO THE POINT OF BEGINNING. BEING A PART OF THE NORTH 1/2 OF SECTION 23. T2S, R4E, LIMA TOWNSHIP, WASHTENAW COUNTY. MICHIGAN AND CONTAINING 11.21 ACRES OF LAND, MORE OR LESS. BEING SUBJECT TO THE RIGHTS OF THE PUBLIC OVER THAT PORTION OF JACKSON ROAD, AS OCCUPIED. ALSO BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

PRELIMINARY SITE PLAN FOR

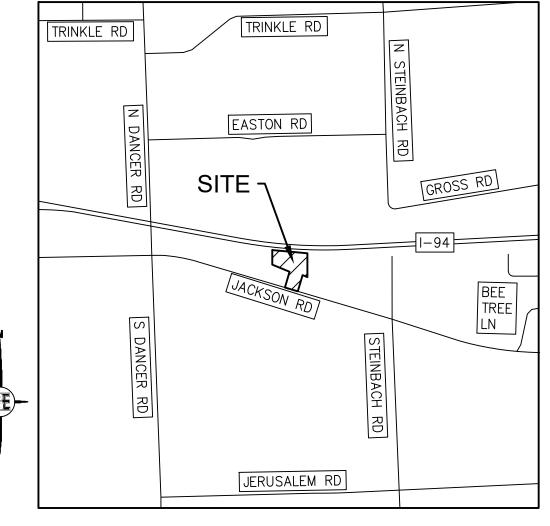
ST. VLADIMIR RUSSIAN ORTHODOX CHURCH

PART OF NE QUARTER, SECTION 23 T2S, R4E LIMA TOWNSHIP, WASHTENAW COUNTY, MICHIGAN 48130



OVERALL SITE MAP

NO SCALE



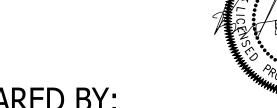
LOCATION MAP

NO SCALE

SHEET INDEX				
SHEET NO.	DESCRIPTION			
123456789	COVER SHEET GENERAL NOTES & LEGEND EXISTING CONDITIONS & DEMOLITION PLAN SITE PLAN GRADING & DRAINAGE PLAN SOIL EROSION & SEDIMENTATION CONTROL PLAN LANDSCAPE PLAN CONSTRUCTION DETAILS WCWRC STORMWATER CALCULATION DETAILS			
PLANS BY OTHERS DANGEROUS ARCHITECTS				
T1 A1 – A6	OVERALL ARCHITECTURAL SITE PLAN CATHEDRAL ARCHITECTURAL PLANS			

PREPARED FOR:

DANGEROUS ARCHITECTS
104 SOUTH MAIN STREET
CHELSEA, MI 48118
SCOTT McELRATH
734-475-3660
smcelrath@dangerousarchitects.com



PROPERTY OWNER:

ST. VLADIMIR RUSSIAN ORTHODOX CHURCH 9900 JACKSON ROAD DEXTER, MI 48130 Brendan Hayden 734-846-9220 bhayden@a2oca.org

PREPARED BY:

Engineers Surveyors Planners Landscape Architects
3121 E. GRAND RIVER AVE.
HOWELL, MI. 48843

3121 E. GRAND RIVER AVE.

HOWELL, MI. 48843
517.546.4836 FAX 517.548.1670
CONTACT: BRENT LaVANWAY

FOR SITE PLAN APPROVAL ONLY!
NOT FOR CONSTRUCTION

					4
					ISSUE DATE: 02/28/24
NO	BY	CK	REVISION	DATE	JOB NO: 24-001
				-	

INDEMNIFICATION STATEMENT

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

GENERAL NOTES

SPECIFICATIONS.

- 1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED TOWNSHIP, COUNTY, AND STATE OF MICHIGAN PERMITS.
- 2. A GRADING PERMIT FOR SOIL EROSION-SEDIMENTATION CONTROL SHALL BE OBTAINED FROM THE GOVERNING AGENCY PRIOR TO THE START OF CONSTRUCTION.
- 3. IF DUST PROBLEM OCCURS DURING CONSTRUCTION, CONTROL WILL BE PROVIDED BY AN APPLICATION OF WATER, EITHER BY SPRINKLER OR TANK TRUCK.
- 4. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL MUNICIPAL STANDARDS AND
- 5. PAVED SURFACES. WALKWAYS, SIGNS, LIGHTING AND OTHER STRUCTURES SHALL BE MAINTAINED IN A SAFE,
- 6. ALL BARRIER-FREE FEATURES SHALL BE CONSTRUCTED TO MEET ALL LOCAL, STATE AND A.D.A. REQUIREMENTS. WHERE EXISTING CONDITIONS AND/OR THE REQUIREMENTS OF THE PLANS WILL RESULT IN

FINISHED CONDITIONS THAT DO NOT MEET ADA REQUIREMENTS, THE CONTRACTOR SHALL NOTIFY THE DESIGN

- 7. ANY DISCREPANCY IN THIS PLAN AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DESIGN ENGINEER PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL SETBACKS, EASEMENTS AND DIMENSIONS SHOWN HEREON PRIOR TO BEGINNING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, UTILITIES AND RIGHT-OF-WAY, PUBLIC OR PRIVATE, PRIOR TO THE START OF CONSTRUCTION.
- 9. THE CONTRACTOR SHALL COORDINATE WITH ALL OWNERS TO DETERMINE THE LOCATION OF EXISTING LANDSCAPING, IRRIGATION LINES & PRIVATE UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING LANDSCAPING, IRRIGATION LINES, AND PRIVATE UTILITY LINES.
- 10. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE
- 11. THE CONTRACTOR SHALL MAINTAIN THE SITE IN A MANNER SO THAT WORKMEN AND PUBLIC SHALL BE PROTECTED FROM INJURY, AND ADJOINING PROPERTY PROTECTED FROM DAMAGE.
- 12. THE CONTRACTOR SHALL KEEP THE AREA OUTSIDE THE "CONSTRUCTION LIMITS" BROOM CLEAN AT ALL TIMES.
- 13. THE CONTRACTOR SHALL CALL MISS DIG A MINIMUM OF 72 HOURS PRIOR TO THE START OF CONSTRUCTION.
- 14. ALL PAVEMENT REPLACEMENT AND OTHER WORKS COVERED BY THESE PLANS SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE TOWNSHIP, INCLUDING THE LATEST MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
- 15. THE CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE TO EXISTING UTILITIES.

ATTRACTIVE CONDITION AS ORIGINALLY DESIGNED AND CONSTRUCTED.

ENGINEER PRIOR TO WORK COMMENCING.

- 16. NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR ANY DELAY OR INCONVENIENCE DUE TO THE MATERIAL SHORTAGES OR RESPONSIBLE DELAYS DUE TO THE OPERATIONS OF SUCH OTHER PARTIES DOING WORK INDICATED OR SHOWN ON THE PLANS OR IN THE SPECIFICATION OR FOR ANY REASONABLE DELAYS IN CONSTRUCTION DUE TO THE ENCOUNTERING OR EXISTING UTILITIES THAT MAY OR MAY NOT BE SHOWN ON THE PLANS.
- 17. DURING THE CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL NOT PERFORM WORK BY PRIVATE AGREEMENT WITH PROPERTY OWNERS ADJACENT TO THE PROJECT.
- 18. IF WORK EXTENDS BEYOND NOVEMBER 15, NO COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR ANY WINTER PROTECTION MEASURES THAT MAY BE REQUIRED BY THE ENGINEER.
- 19. NO TREES ARE TO BE REMOVED UNTIL MARKED IN THE FIELD BY THE ENGINEER.
- 20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE PROPERTY BEYOND THE CONSTRUCTION LIMITS INCLUDING BUT NOT LIMITED TO EXISTING FENCE, LAWN, TREES AND SHRUBBERY.
- 21. TRAFFIC SHALL BE MAINTAINED DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL SIGNS AND TRAFFIC CONTROL DEVICES. FLAG PERSONS SHALL BE PROVIDED BY THE CONTRACTOR IF DETERMINED NECESSARY BY THE ENGINEER. ALL SIGNS SHALL CONFORM TO THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AT NO COST TO THE TOWNSHIP. NO WORK SHALL BE DONE UNLESS THE APPROPRIATE TRAFFIC CONTROL DEVICES ARE IN PLACE.
- 22. ALL DEMOLISHED MATERIALS AND SOIL SPOILS SHALL BE REMOVED FROM THE SITE AT NO ADDITIONAL COST, AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
- 23. ANY EXISTING APPURTENANCES SUCH AS MANHOLES, GATE VALVES, ETC. SHALL BE ADJUSTED TO THE PROPOSED GRADE AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 24. ALL PERMANENT SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISION OF THE MICHIGAN MUTCD MANUAL AND SHALL BE INCIDENTAL TO THE CONTRACT.
- 25. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT ARE INCLUDED IN THE CONTRACT. ANY ITEMS NOT SPECIFICALLY DESIGNATED IN THE PLANS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- 26. THE CONTRACTOR IS RESPONSIBLE FOR HAVING A SET OF APPROVED CONSTRUCTION PLANS. WITH THE LATEST REVISION DATE, ON SITE PRIOR TO THE START OF CONSTRUCTION. IN THE EVENT OF ANY QUESTIONS PERTAINING TO THE INTENT OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE CONTRACTOR SHALL
- CONTACT THE DESIGN ENGINEER FOR A FINAL DETERMINATION FROM THE DESIGN ENGINEER. 27. THE CONTRACTOR, NOT THE OWNER OR THE ENGINEER, ARE RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR SAFE EXECUTION OF THE PROJECT SCOPE IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
- 28. THE CONTRACTOR IS RESPONSIBLE FOR PRESERVING CONSTRUCTION STAKING AS NECESSARY. CONTRACTOR TO NOTIFY CONSTRUCTION SURVEYOR OF REPLACEMENT STAKES NEEDED WHICH SHALL BE AT THE CONTRACTORS
- 29. THE OWNER AND/OR CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FRANCHISE UTILITY SERVICES (CABLE, ELECTRIC, GAS, ETC.) OWNER AND/OR CONTRACTOR SHALL WORK WITH UTILITY COMPANIES ON FURNISHING SITE UTILITY LAYOUTS AND PROVIDING CONDUIT CROSSINGS AS REQUIRED.
- 30. DAMAGE TO ANY EXISTING UTILITIES OR INFRASTRUCTURE (INCLUDING PAVEMENT, CURB, SIDEWALK, ETC.) SHALL PROMPTLY BE REPLACED IN KIND AND SHALL BE AT THE CONTRACTORS EXPENSE.
- 31. COORDINATION OF TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND PER ALL CITY/TOWNSHIP/COUNTY REQUIREMENTS. COPIES OF ALL TEST REPORTS SHALL BE FURNISHED TO THE DESIGN
- 32. PRIOR TO THE START OF CONSTRUCTION, PROTECTION FENCING SHALL BE ERECTED AROUND THE TREE DRIPLINE OF ANY TREES INDICATED TO BE SAVED WITHIN THE LIMITS OF DISTURBANCE.
- 33. THE CONTRACTOR SHALL MAINTAIN DRAINAGE OF THE PROJECT AREA AND ADJACENT AREAS. WHERE EXISTING DRAINAGE FACILITIES ARE IMPACTED/DISTURBED DUE TO CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ANY NECESSARY TEMPORARY DRAINAGE PROVISIONS.
- 34. SOIL BORING LOGS ARE REPRESENTATIVE OF SPECIFIC POINTS ON THE PROJECT SITE, AND IF PROVIDED TO THE CONTRACTOR ARE FOR INFORMATIONAL PURPOSES ONLY.
- 35. WHERE CITY/TOWNSHIP STANDARD CONSTRUCTION DETAILS/SPECIFICATIONS ARE PROVIDED AND ARE IN CONFLICT WITH NOTES AND SPECIFICATIONS HEREIN, THE CITY/TOWNSHIP STANDARD SHALL GOVERN.

INDEMNIFICATION STATEMENT

CONTRACTOR TO FOLLOW MANUFACTURER

SPECS/RECOMMENDATIONS THAT SUPERCEDE PLANS

THE CONTRACTOR SHALL HOLD HARMLESS THE DESIGN PROFESSIONAL, MUNICIPALITY, COUNTY, STATE, AND ALL OF ITS SUB CONSULTANTS, PUBLIC AND PRIVATE UTILITY COMPANIES, AND LANDOWNERS FOR DAMAGES TO INDIVIDUALS AND PROPERTY, REAL OR OTHERWISE, DUE TO THE OPERATIONS OF THE CONTRACTOR AND/OR THEIR SUBCONTRACTORS.

GENERAL GRADING & SESC NOTES

- 1. THE CONTRACTOR SHALL HAVE IN PLACE ALL REQUIRED EROSION CONTROL METHODS AS INDICATED ON THE CONSTRUCTION PLANS AND AS REQUIRED BY GENERAL PRACTICE. SPECIFIC MEANS, METHODS AND SEQUENCES OF CONSTRUCTION MAY DICTATE ADDITIONAL SOIL EROSION CONTROL MEASURES BE NEEDED. THE CONTRACTOR SHALL COORDINATE WITH THE DESIGN ENGINEER ON THESE ANTICIPATED METHODS, ADDITIONAL SOIL EROSION CONTROL METHODS SHALL BE INCIDENTAL TO THE SCOPE OF WORK.
- 2. ACTUAL FIELD CONDITIONS MAY DICTATE ADDITIONAL OR ALTERNATE SOIL EROSION CONTROL MEASURES BE UTILIZED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFICIENCIES OR FIELD CONDITIONS THAT WARRANT ADDITIONAL AND/OR ALTERNATIVE SESC MEASURES BE UTILIZED.
- 3. AT THE CLOSE OF EACH DAY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING ALL CONSTRUCTION OPERATIONS, MATERIALS, DEBRIS, ETC ARE CONTAINED ON-SITE.
- 4. AT THE CLOSE OF EACH WORKING DAY, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS AT
- THE FLOW LINE. 5. ALL SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE PER MDEGLE REGULATIONS AND
- BEST PRACTICES, ALL SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR. THE SOIL EROSION CONTROL MEASURES SHALL BE KEPT IN PLACE UNTIL SUCH A TIME THAT THE SITE IS
- DETERMINED TO BE ESTABLISHED WITH ACCEPTABLE AMOUNT OF VEGETATIVE GROUND COVER. 7. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE NORMAL CONSTRUCTION LIMITS OF THE PROJECT
- 8. AFTER REMOVAL OF TOPSOIL, THE SUBGRADE SHALL BE COMPACTED TO 95% OF ITS UNIT WEIGHT.

SHALL BE SODDED OR SEEDED AS SPECIFIED OR DIRECTED BY THE ENGINEER.

- 9. ALL GRADING IN THE PLANS SHALL BE DONE AS PART OF THIS CONTRACT. ALL DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE SUBGRADE PRIOR TO COMPACTING.
- 10. ALL ROOTS, STUMPS AND OTHER OBJECTIONABLE MATERIALS SHALL BE REMOVED AND THE HOLE BACKFILLED WITH SUITABLE MATERIAL. WHERE GRADE CORRECTION IS REQUIRED, THE SUBGRADE SHALL BE CUT TO CONFORM TO THE CROSS-SECTION AS SHOWN IN THE PLANS.
- 11. ALL EXCAVATION UNDER OR WITHIN 3 FEET OF PUBLIC PAVEMENT, EXISTING OR PROPOSED SHALL BE BACKFILLED AND COMPACTED WITH SAND (MDOT CLASS II).

GENERAL LANDSCAPE NOTES

- 1. ALL PLANT MATERIAL SHALL CONFORM TO THE REQUIREMENTS AND SPECIFICATIONS OF THE GOVERNING MUNICIPALITY. ALL STOCK SHALL BE NURSERY GROWN, CONFORMING TO ANSI Z60.1 "AMERICAN STANDARD FOR NURSERY STOCK", AND IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICE. STOCK SHALL EXHIBIT NORMAL GROWTH HABIT AND BE FREE OF DISEASE, INSECTS, EGGS, LARVAE, & DEFECTS SUCH AS KNOTS, SUN-SCALD, INJURIES, ABRASIONS, OR DISFIGUREMENT. ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- ALL PLANT MATERIALS SHALL BE BALLED AND BURLAPPED OR CONTAINER STOCK. NO BARE ROOT STOCK IS PERMITTED. ALL PLANT BALLS SHALL BE FIRM, INTACT, AND SECURELY WRAPPED AND BOUND.
- 3. ALL PLANT BED MATERIALS SHALL BE EXCAVATED OF ALL BUILDING MATERIALS, OTHER EXTRANEOUS OBJECTS, AND POOR SOILS TO A MINIMUM DEPTH OF 12-INCHES AND BACKFILLED TO GRADE WITH SPECIFIED PLANTING MIX (SEE BELOW).
- 4. PLANTING MIXTURE SHALL CONSIST OF 5 PARTS TOPSOIL FROM ON-SITE (AS APPROVED), 4 PARTS COARSE SAND, 1 PART SPHAGNUM PEAT MOSS (OR APPROVED COMPOST), AND 5 LBS OF SUPERPHOSPHATE FERTILIZER PER CU. YD. OF MIX. INGREDIENTS SHALL BE THOROUGHLY BLENDED FOR UNIFORM CONSISTENCY.
- 5. ALL PLANT BEDS AND INDIVIDUAL PLANTS, NOT OTHERWISE NOTED SHALL BE MULCHED WITH A 4-INCH LAYER OF SHREDDED BARK MULCH. EDGE OF MULCH BEDS AS SHOWN. DECIDUOUS TREES IN LAWN AREAS SHALL RECEIVE A 5-FT DIAMETER CIRCLE OF MULCH AND CONIFER TREES 8-FT (PLANTED CROWN OF TREE) UNLESS OTHERWISE NOTED.
- LANDSCAPE STONE SHALL BE INSTALLED WHERE NOTED OR INDICATED (HATCHED). STONE SHALL BE 3/4"-1-1/4" WASHED RIVER GRAVEL OR AS SELECTED AND SHALL BE INSTALLED TO A MINIMUM DEPTH OF 3-INCHES.
- 7. ALL LANDSCAPE BEDS, UNLESS OTHERWISE NOTED SHALL BE INSTALLED OVER WEED BARRIER FABRIC WATER PERMEABLE FILTRATION FABRIC OF NON-WOVEN POLYPROPYLENE OR POLYESTER FABRIC. FABRIC SHALL BE OF SUITABLE THICKNESS FOR APPLICATION.
- 8. ALL PLANTS AND PLANT BEDS SHALL BE THOROUGHLY WATERED UPON COMPLETION OF PLANTING AND STAKING OPERATIONS.
- THE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIALS FOR A PERIOD OF 1 YEAR FROM THE DATE THE WORK IS ACCEPTED, IN WRITING, BY THE LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL REPLACE, WITHOUT COST TO THE OWNER, WITHIN A SPECIFIED PERIOD OF TIME, ALL DEAD PLANTS, AND ALL PLANTS NOT IN A VIGOROUS, THRIVING CONDITION, AS DETERMINED BY THE LANDSCAPE ARCHITECT, DURING AND AT THE END OF THE GUARANTEE PERIOD. REPLACEMENT STOCK SHALL CONFORM TO THE ORIGINAL SPECIFICATIONS.
- 10. EDGING SHALL BE PROVIDED FOR ALL LANDSCAPE BEDS NOT ADJACENT TO CONCRETE PAVEMENT. EDGING SHALL BE BLACK ALUMINUM EDGING, 3/16-INCH X 4-INCH. INSTALL PER MANUFACTURER'S INSTRUCTIONS, ALL EDGING SHALL BE INSTALLED IN STRAIGHT LINES OR SMOOTH CURVES WITHOUT IRREGULARITIES.
- 11. SOD SHALL BE DENSE, WELL ROOTED TURF, FREE OF WEEDS. IT SHALL BE COMPRISED OF A BLEND OF AT LEAST TWO KENTUCKY BLUE GRASSES AND ONE FESCUE. IT SHALL HAVE A UNIFORM THICKNESS OF 3/4-INCH AT TIME OF PLANTING, AND CUT IN UNIFORM STRIPS NOT LESS THAN 10-INCHES BY 18-INCHES. SOD SHALL BE KEPT MOIST AND LAID WITHIN 36-HOURS AFTER CUTTING.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ALL SODDED AREAS THAT BROWN-OUT OR HAVE NOT FIRMLY KNITTED TO THE SOIL BASE WITHIN A PERIOD OF 1 MONTH SHALL BE REPLACED BY THE CONTRACTOR, AT NO COST TO THE
- 12. ALL AREAS OF THE SITE THAT BECOME DISTURBED DURING CONSTRUCTION AND ARE NOT TO BE PAVED, STONED, LANDSCAPED, OR SODDED SHALL BE SEEDED AND MULCHED.

SEED MIXTURE SHALL BE AS FOLLOWS: KENTUCKY BLUEGRASS (CHOOSE 3 VARIETIES -30% ADELPHI, RUGBY, GLADE, OR PARADE) RUBY RED OR DAWSON RED FINE FESCUE 30% ATLANTA RED FESCUE 20% PENNFINE PERENNIAL RYE 20%

THE ABOVE SEED MIXTURE SHALL BE SOWN AT A RATE OF 250 LBS PER ACRE. PRIOR TO SEEDING, THE TOPSOIL SHALL BE FERTILIZED WITH A COMMERCIAL FERTILIZER WITH A 10-0-10 ANALYSIS:

10% NITROGEN - MIN 25% FROM A UREA FORMALDEHYDE SOURCE

0 % PHOSPHATE 10% POTASH - SOURCE POTASSIUM SULFATE OR POTASSIUM NITRATE

THE FIRST FERTILIZER APPLICATION SHALL BE AT A RATE OF 10 LBS PER 1000 SQ FT OF BULK FERTILIZER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH A DENSE LAWN OF PERMANENT GRASSES, FREE OF LUMPS AND DEPRESSIONS. ANY PART OF THE AREA THAT FAILS TO SHOW A UNIFORM GERMINATION SHALL BE RE-SEEDED AND SUCH RE-SEEDING SHALL CONTINUE UNTIL A DENSE LAWN IS ESTABLISHED. DAMAGE TO SEEDED AREAS RESULTING FROM EROSION SHALL BE REPAIRED BY THE CONTRACTOR.

- 13. ALL AREAS OF THE SITE SCHEDULED FOR SEEDING OR SODDING SHALL FIRST RECEIVE A 6-INCH LAYER OF CLEAN, FRIABLE TOPSOIL. THE SOIL SHALL BE DISCED AND SHALL BE GRADED IN CONFORMANCE WITH THE GRADING PLAN.
- 14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION OF ALL UTILITIES AND TO INFORM THE LANDSCAPE ARCHITECT OF ANY CONFLICTS PRIOR TO COMMENCING LANDSCAPING.

GENERAL UTILITY NOTES

- BEDDING SHALL EXTEND A MINIMUM OF 4" BELOW THE PIPE, UNLESS OTHERWISE NOTED ON THE PLANS. BEDDING SHALL BE OF UNIFORM GRADATION MDOT 6AA STONE OR MDOT CLASS II GRANULAR MATERIAL FOR SANITARY AND STORM PIPE AND MDOT CLASS II GRANULAR MATERIAL ONLY FOR WATERMAIN.
- 2. WHERE UNSTABLE GROUND CONDITIONS ARE ENCOUNTERED, STONE BEDDING SHALL BE USED AS DIRECTED BY THE ENGINEER.
- 3. BACKFILL SHALL BE OF A SUITABLE MATERIAL AND SHALL BE FREE OF ANY ORGANIC MATERIALS AND ROCKS.
- 4. BACKFILL ABOVE THE PIPE SHALL BE OF GRANULAR MATERIAL MDOT CLASS II TO A POINT 12" ABOVE THE TOP OF THE PIPE. WHERE THE TRENCH IS NOT WITHIN THE INFLUENCE OF THE ROAD, SUITABLE SITE MATERIAL MAY BE COMPACTED AND UTILIZED FROM A POINT 12" ABOVE THE PIPE TO GRADE. WHERE THE TRENCH IS WITHIN A 1:1 INFLUENCE OF THE ROAD, GRANULAR MATERIAL, MDOT CLASS II OR III, IS TO BE PLACED AND COMPACTED IN LAYERS NOT EXCEEDING 12" IN THICKNESS. COMPACTION SHALL BE 95% AS DETERMINED BY AASHTO T99.
- 5. 18" MINIMUM VERTICAL SEPARATION AND 10' HORIZONTAL SEPARATION IS TO BE MAINTAINED BETWEEN WATERMAIN AND SANITARY/STORM SEWER TO THE MAXIMUM EXTENT POSSIBLE.

GENERAL STORM NOTES

- 1. ALL STORM PIPE LENGTHS ARE SHOWN FROM C/L TO C/L OF STRUCTURE OR FROM C/L OF STRUCTURE TO DISCHARGE END OF FLARED END SECTION.
- 2. STORM PIPE MATERIALS SHALL BE AS FOLLOWS:
- 2.1. RCP(REINFORCED CONCRETE PIPE): SHALL MEET THE REQUIREMENTS OF ASTM C76 WITH MODIFIED GROOVED TONGUE AND RUBBER GASKETS MEETING THE REQUIREMENTS OF ASTM C443. RCP TO BE EITHER CLASS IV OR V AS CALLED OUT ON THE PLANS. HDPE(HIGH DENSITY POLYETHYLENE): SHALL MEET THE REQUIREMENTS OF ASTM F2648.
- 2.3. PP(POLYPROPYLENE): SHALL MEET THE REQUIREMENTS OF ASTM F2881. 2.4. PVC(POLYVINYL CHLORIDE): SHALL MEET THE REQUIREMENTS OF ASTM D3034.
- 3. STORM PIPE JOINTS SHALL MEET THE REQUIREMENTS OF ASTM D3212. HDPE AND PP PIPE GASKETS SHALL MEET THE REQUIREMENTS OF ASTM F477.
- 4. ALL STORM PIPE TO HAVE WATERTIGHT PREMIUM JOINTS, UNLESS OTHERWISE NOTED ON THE PLANS.
- 5. STORM DRAINAGE STRUCTURES SHALL BE FURNISHED WITH STEPS WHICH SHALL BE STEEL ENCASED WITH POLYPROPYLENE PLASTIC OR EQUIVALENT. STEPS SHALL BE SET AT 16" CENTER TO CENTER.
- 6. ALL FLARED END SECTIONS 15" AND LARGER SHALL BE FURNISHED WITH AN ANIMAL GRATE.
- 7. FLARED END SECTIONS DISCHARGING STORM WATER SHALL RECEIVE A MINIMUM OF 10 SQ YDS OF PLAIN COBBLESTONE RIP RAP WITH A MINIMUM STONE SIZE OF 6" AND SHALL BE PLACED ON A GEOTEXTILE FABRIC
- 8. ALL CATCH BASINS WITHIN THE ROADWAY SHALL INCLUDE INSTALLATION OF 6" DIAMETER PERFORATED PIPE
- 9. STORM DRAINAGE STRUCTURE COVERS SHALL BE OF THE FOLLOWING (OR APPROVED EQUAL):

COVER USE GRATE/BACK MANHOLE TYPE 'B' 'D' PARKING LOTS 1040/5100 TYPE 'M1' GRATE OR 5105 TYPE 'M1' GRATE TYPE '02' GRATE LAWN

GENERAL SANITARY NOTES

- 1. ALL SANITARY PIPE LENGTHS ARE SHOWN FROM C/L OF STRUCTURE TO C/L OF STRUCTURE.
- 2. SANITARY PIPE MATERIALS SHALL BE AS FOLLOWS: 2.1. PVC SDR-26 (SANITARY MAIN)
- 2.2. PVC SDR-23.5 (SANITARY LEADS) 2.3. HDPE DR-11 (SANITARY FORCEMAIN)

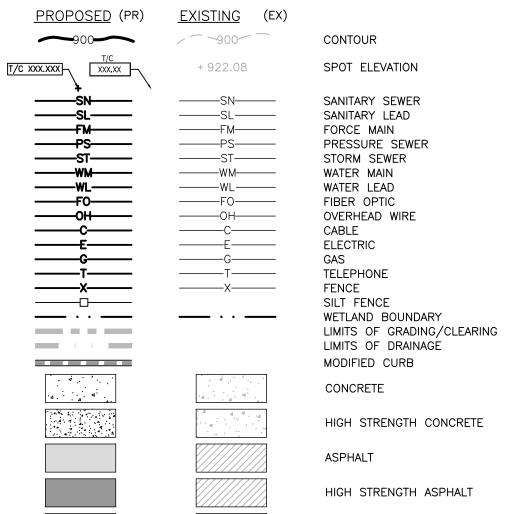
SPRINGLINE OF THE PIPE.

- 3. ALL PVC SDR SANITARY SEWER PIPE SHALL MEET THE REQUIREMENTS OF ASTM D3034 AND D2241. PVC SCHD 40 PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785. GASKET JOINTS FOR SANITARY PIPE SHALL MEET THE REQUIREMENTS OF ASTM D3139 AND D3212.
- 4. SANITARY STRUCTURES SHALL BE FURNISHED WITH STEPS WHICH SHALL BE STEEL ENCASED WITH POLYPROPYLENE PLASTIC OR EQUIVALENT. STEPS SHALL BE SET AT 16" CENTER TO CENTER.
- 5. ALL NEW MANHOLES SHALL BE MINIMUM 4' DIAMETER, PRECAST MANHOLE SECTIONS AND AN ECCENTRIC CONE. PRECAST MANHOLE JOINTS SHALL BE INSTALLED WITH BUTYL ROPE MEETING THE REQUIREMENTS OF
- MANHOLES SHALL BE CONSTRUCTED WITH FLOW CHANNEL WALLS THAT ARE FORMER, AT A MINIMUM, TO THE
- 7. ALL NEW MANHOLES SHALL HAVE AN APPROVED FLEXIBLE, WATERTIGHT SEALS WHERE PIPES PASS THROUGH MANHOLE WALLS.
- WHEREVER AN EXISTING MANHOLE IS TO BE TAPPED, THE STRUCTURE SHALL BE CORED AND A KOR-N-SEAL BOOT UTILIZED FOR THE PIPE CONNECTION.
- 9. ALL MANHOLES SHALL BE PROVIDED WITH WATERTIGHT COVERS. COVERS TO BE EJCO 1040 TYPE 'A' SOLID
- 10. A MAXIMUM OF 12" OF GRADE ADJUSTMENT RINGS SHALL BE USED TO ADJUST THE FRAME ELEVATION. BUTYL ROPE SHALL BE USED BETWEEN EACH ADJUSTMENT RING.
- 11. SANITARY SEWER LATERALS SHALL HAVE A MINIMUM SLOPE OF 1.0%.
- 12. CLEANOUTS SHALL BE INSTALLED EVERY 100', AT ALL BENDS AND STUBS.

GENERAL WATERMAIN NOTES

- 1. WATERMAIN PIPE MATERIALS SHALL BE AS FOLLOWS:
- 1.1. D.I.P. CL.52 (WATERMAIN) 1.2. TYPE 'K' COPPER (WATER LATERAL - MAIN TO CURB STOP)
- 1.3. HDPE DR-9 (WATER LATERAL CURB STOP TO STUB) WATERMAIN FITTINGS SHALL BE OF DUCTILE IRON WITH CEMENT MORTAR LINING AND MECHANICAL JOINTS
- CONFORMING TO AWWA C110. WATERMAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C651. BAC-T SAMPLES SHALL BE TAKEN IN ACCORDANCE WITH R235.11110 OF THE ADMINISTRATIVE RULES PROMULGATED UNDER MICHIGAN SAFE DRINKING WATER ACT, 1976 PA 399, AS AMENDED.
- 4. ALLOWABLE LEAKAGE OR HYDROSTATIC PRESSURE TESTING SHALL BE IN ACCORDANCE WITH AWWA C600 AND
- MAXIMUM DEFLECTION AT PIPE JOINTS SHALL BE IN ACCORDANCE WITH PIPE MANUFACTURERS CURRENT RECOMMENDATIONS AND AWWA SPECIFICATIONS.
- 6. A FULL STICK OF PIPE SHALL BE LAID CENTERED AT A PIPE CROSSING IN ORDER TO MAINTAIN THE MAXIMUM SEPARATION OF WATERMAIN JOINT TO THE CROSSING PIPE. 7. WATERMAIN SHALL BE INSTALLED WITH A MINIMUM OF 5.5' OF COVER FROM FINISHED GRADE TO TOP OF PIPE
- AND NO MORE THAN 8' OF COVER, UNLESS SPECIAL CONDITIONS WARRANT. 8. WATERMAIN VALVES SHALL BE IRON BODY RESILIENT WEDGE GATE VALVES, NON-RISING STEMS,
- COUNTERCLOCKWISE OPEN, AWWA C509. 9. FIRE HYDRANTS SHALL BE INSTALLED WITH AN AUXILIARY VALVE WITH CAST IRON VALVE BOX. THE HYDRANT PUMPER HOSE CONNECTION SHALL FACE THE ROADWAY.
- 10. THE BREAKAWAY FLANGE AND ALL BELOW GRADE FITTINGS SHALL HAVE STAINLESS STEEL NUTS AND BOLTS.

LINES & HATCHES LEGEND



WATER MAIN LABEL SOIL EROSION CONTROL MEASURE (P=PERMANENT, T=TEMPORARY)

LIGHTING LEGEND EXISTING (EX) <u>PROPOSED</u> (PR) \bigcirc

DOUBLE FIXTURE LIGHT POLE SINGLE FIXTURE LIGHT FIXTURE WALL MOUNTED LIGHT FIXTURE

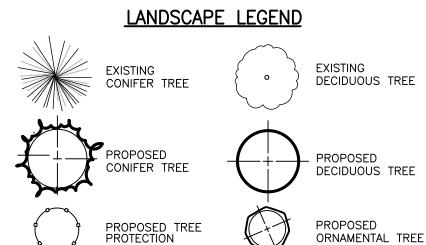
GROUND LIGHT FIXTURE FOOT CANDLES ON SITE FOOT CANDLES OFF SITE FOOT CANDLES CONTOURS

WETLAND

SANITARY SEWER LABEL

STORM SEWER LABEL

(54T)



L.C.R.



DECIDUOUS SHRUBS PROPOSED GRASSES & PERENNIALS PROPOSED

LANDSCAPE BOULDER

<u>ABBREVIATIONS</u>

FINISHED FLOOR ELEVATION BASEMENT FLOOR FLEVATION GARAGE FLOOR ELEVATION FINISHED GRADE TOP OF ASPHALT TOP OF CONCRETE/CURB TOP OF WALK TOP OF PIPE BOTTOM OF PIPE FLOW LINE RIM ELEVATION (AT FLOW LINE) INVERT ELEVATION MANHOLE CATCH BASIN REAR YARD YARD DRAIN FLARED END SECTION CORRUGATED METAL PIPE CORRUGATED PLASTIC PIPE REINFORCED CONCRETE PIPE HIGH DENSITY POLYETHYLENE POLYVINYL CHLORIDE DUCTILE IRON PIPE GATE VALVE GATE VALVE IN WELL GATE VALVE IN BOX FIRE DEPARTMENT CONNECTION UTILITY POLE NOT FIELD VERIFIED TO BE REMOVED

LIVINGSTON COUNTY RECORDS

MEASURED AND RECORD

POINT OF BEGINNING

SYMBOL LEGEND

CANOPY MOUNTED LIGHT FIXTURE

→ STORM DRAINAGE FLOW ↓ GUY WIRE -∽ POWER POLE TRANSFORMER PAD ■ ELECTRICAL RISER E U.G. ELECTRIC MARKER ELECTRICAL METER AIR CONDITIONING UNIT

TELEPHONE RISER U.G. TELEPHONE MARKER G GAS RISER U.G. GAS MARKER GAS METER

CABLE TV RISER U.G. CABLE TV MARKER MB MAILBOX WELL W WATER MANHOLE

 Ø GATE VALVE (EXISTING) -CX HYDRANT (EXISTING) → HYDRANT (PROPOSED)

☐ CATCH BASIN (EXISTING) CATCH BASIN (PROPOSED)

O STORM MANHOLE (EXISTING) STORM MANHOLE (PROPOSED) (END SECTION (EXISTING)

♠ END SECTION (PROPOSED) SANITARY MANHOLE (EXISTING)

SANITARY MANHOLE (PROPOSED) PC PUMP CHAMBER -\$\rightarrow\$ TRAFFIC SIGN

SIGN (PROPOSED) SOIL BORING O STEEL ROD SET STEEL ROD OR PIPE FOUND

□ WOOD LATH SET ☐ HUB SET MONUMENT FOUND SECTION CORNER GP GAS PUMP ANTENNA

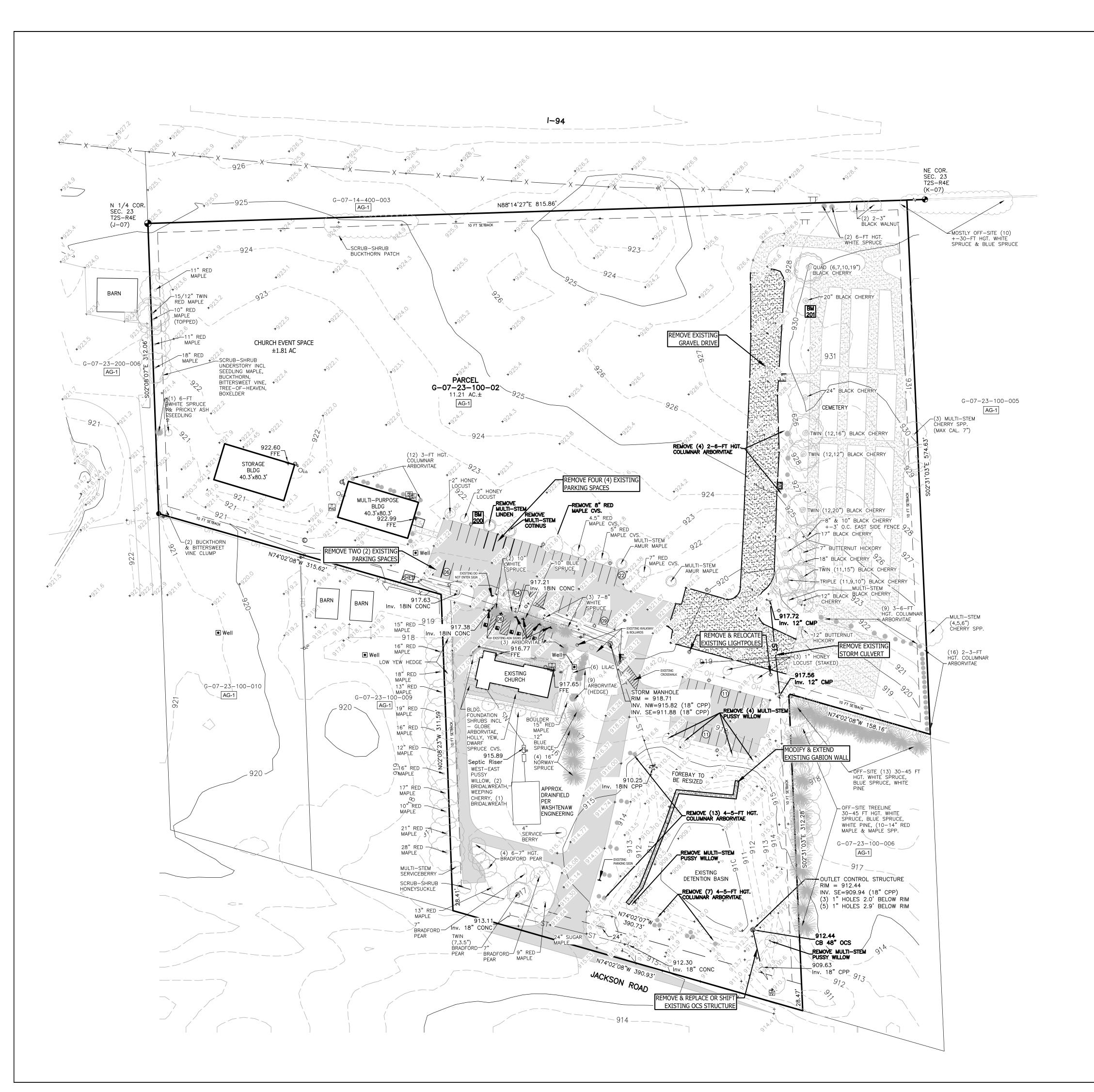
(XX) SATELLITE DISH NP NEWSPAPER BOX PM PARKING METER

PB PHONE BOOTH HANDICAP SYMBOL BENCHMARK LIGHT POLE

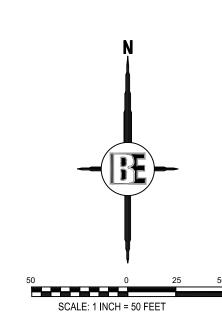
EN l ŏ ಂಶ 0 ENERAL 2 ESIGNED BY: DRAWN BY: JP

AS SI GUARA COMP COMP LOCAT UTILIT CONTE FROM

CHECKED BY: NO SCALE SCALE: JOB NO: **24-001** 02/28/24 BOSS



SEE SHEET 2 FOR GENERAL NOTES AND LEGEND



PARCEL INFORMATION:
PARCEL ID: #G-07-23-100-02

PARCEL ID: #G-07-23-100-02 LOT ACREAGE: 11.21 AC. ± ZONING: AGRICULTURE (AG-1) ADDRESS: 9900 JACKSON RD, DEXTER, MI 48130

GENERAL SURVEY NOTES:

CLIENT:

1. BEARINGS ARE BASED ON MICHIGAN STATE PLANE COORDINATE SYSTEM, SOUTH ZONE.

DANGEROUS ARCHITECTS

2. SUBSURFACE UTILITIES NOT LOCATED FOR THIS SURVEY MAY EXIST. IT IS THE RESPONSIBILITY OF THE OWNER OF THE RESPECTIVE UTILITY TO ACCURATELY LOCATE SUCH UTILITIES.

ST. VLADIMIR RUSSIAN ORTHODOX CHURCH

THIS DRAWING MAY EXIST.

3. EASEMENTS OR RESTRICTIONS OF RECORD NOT DEPICTED ON

- 4. ELEVATIONS WERE ESTABLISHED WITH GPS. (NAVD88 DATUM)
- 5. CONTOURS ARE SHOWN AT 1 FOOT INTERVALS.
- 6. SUBJECT PROPERTY IS DESIGNATED AN AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOOD PLAIN (ZONE X) ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA), FLOOD INSURANCE RATE MAP (FIRM), FOR THE TOWNSHIP OF LIMA, WASHTENAW COUNTY, MICHIGAN, MAP NUMBER 26161C0220E, WITH AN EFFECTIVE DATE OF APRIL 3, 2012.
- 7. THE LOCATIONS OF STORM SEWER, SANITARY SEWER & WATERMAIN, AS SHOWN ON THIS DRAWING ARE APPROXIMATE. THE LOCATIONS ARE BASED ON PHYSICAL FIELD LOCATIONS OF STRUCTURES.
- 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY, THE COUNTY, AND THE STATE OF MICHIGAN.
- 9. ALLOW THREE WORKING DAYS BEFORE YOU DIG, CALL MISS DIG TOLL FREE 1-800-482-7171.

PROPERTY DESCRIPTION PER WASHTENAW ENGINEERING PLANS DATED

COMMENCING AT THE NORTHEAST CORNER OF SECTION 23, T2S, R4E, LIMA TOWNSHIP, WASHTENAW COUNTY. MICHIGAN; THENCE S86'46'50"W 1820.26 FEET ALONG THE NORTH LINE OF SAID SECTION TO THE POINT OF BEGINNING; THENCE S03'58'40"E 574.63 FEET; THENCE N75'29'45"W 158.16 FEET; THENCE S03'58'40"E 340.75 FEET; THENCE N75'29'45"W 390.93FEET; THENCE N03"36'00'W 340.00 FEET; THENCE N75'29'45"W 315.62 FEET; THENCE N03"36'00'W 312.08 FEET ALONG AN EXISTING FENCE LINE TO THE NORTH 1/4 CORNER OF SAID SECTION; THENCE N86"46'50"E 815.86 FEET ALONG THE NORTH LINE OF SAID SECTION TO THE POINT OF BEGINNING. BEING A PART OF THE NORTH 1/2 OF SECTION 23. T2S, R4E, LIMA TOWNSHIP, WASHTENAW COUNTY. MICHIGAN AND CONTAINING 11.21 ACRES OF LAND, MORE OR LESS. BEING SUBJECT TO THE RIGHTS OF THE PUBLIC OVER THAT PORTION OF JACKSON ROAD, AS OCCUPIED. ALSO BEING SUBJECT TO EASEMENTS AND RESTRICTIONS OF RECORD, IF ANY.

SITE BENCHMARKS (NAVD88 DATUM):

-BM #200 = CHISELED "X" N/S CONC. L/POLE BASE, FIRST ONE EAST OF SCHOOL BLDG N/S PARKING LOT. ELEV.=924.42'
-BM #201 = NAIL/TAG W/S 24" ELM, 2ND TREE SOUTH OF BILLBOARD E/S GRAVEL DRIVE. ELEV.=931.33'

USDA Soil Conservation Service in cooperation with MI Agricultural Experiment Station (1977)

MmB Miami Loam 2-6% Slopes

SOIL INFORMATION:
ONSITE SOILS ARE NOT CONDUCIVE FOR INFILTRATION

EXISTING PARKING

69 69 SPACES, INCLUDING 6 ADA SPACES



UTILITY CROSSINGS IN THE FIELD CONTRACTOR SHALL NOTIFY THE APPARENT OR IF THE LOCATION OF THE PLANS FROM THE PLANS BIT THE LOCATION OF THE PLANS FROM THE PL

s surveyors Frances Landscape Arcini 3121 E. GRAND RIVER AVE. HOWELL, MI. 48843 7.546.4836 FAX 517.548.1670

DEMOLITION PLAN

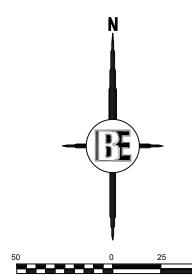
ŏ

ADIMIR

104 S MAIN ST CHELSEA, MI 48118 734.475,3660 EXISTING CONDITIONS &

DESIGNED BY: BL
DRAWN BY: JP
CHECKED BY:
SCALE: 1"=50'
JOB NO: 24-001

TE: 02/28/24
EET NO. BO



SCALE: 1 INCH = 50 FEET

l ŏ 밁 ORT R DIMI

SITE

ESIGNED BY: DRAWN BY: CHECKED BY: SCALE: 1"=50'

JOB NO: **24-001** 02/28/24

1-94 NE COR. SEC. 23 T2S-R4E (K-07)G-07-14-400-003 AG-1 N88'14'27"E 815.86' N 1/4 COR. SEC. 23 T2S-R4E (J-07)PROPOSED "ONE WAY DO NOT ENTER" SIGN PROPOSED ADA SIGNAGE PROPOSED 15 FT WIDE (TYP. 5x) ONE WAY DRIVE BARN PROPOSED "NO PARKING FIRE LANE" SIGN EVERY 100 FT (TYP. 5x) PROPOSED DROP-OFF LOCATION PROPOSED PROPOSED 1500 GALLON DUAL PROPOSED BELL TOWER PARKING LOT COMPARTMENT SEPTIC TANK DRAIN TO CONNECT TO G-07-23-200-006 PROPOSED STORM SEWER PARCEL PROPOSED WELL-G-07-23-100-02 & WELL LINE 11.21 AC.± G-07-23-100-005 EXISTING & RESERVE — CEMETERY AG-1 SEPTIC FIELDS PROPOSED CATHEDRAL PROPOSED 8 FT WIDE 5,183 SF ± BLDG SIDEWALK TO CATHEDRAL 40.3'x80.3' MULTI-PURPOSE BLDG 40.3'x80.3' STORM SEWER PROPOSED 5 FT WIDE SIDEWALK PROPOSED CONCRETE EXISTING — PARKING LOT PARKING SIGN CHURCH G-07-23-100-010 AG-1 G-07-23-100-009 AG-1 LOT 'C' -EXISTING PARKING LOT MODIFIED & EXTENDED GABION WALL PROPOSED 6 FT CHAIN-LINK FENCE G-07-23-100-006 DETENTION BASIN |NEW LOCATION FOR | OCS STRUCTURE PROPOSED OVERFLOW SPILLWAY JACKSON ROAD

SITE DATA: LIMA TOWNSHIP PARCEL #G-07-23-100-02 9900 JACKSON ROAD, DEXTER, MI 48130 11.21 AC ± ZONING: AGRICULTURE (AG-1) EXISTING SITE USE: CHURCH BLDG, MULTI-PURPOSE BLDG, STORAGE BLDG, & CEMETERY EXISTING CHURCH BLDG SF: 2,364 GSF ± EXISTING MULTI-PURPOSE BLDG SF: 3,164 GSF ± EXISTING STORAGE BLDG: 3,164 GSF ± EXISTING CEMETERY SF: 61,846 SF ± PROPOSED BUILDING USE: NEW CHURCH BLDG & FUTURE FELLOWSHIP HALL BLDG PROPOSED CATHEDRAL: 5,180 GSF FUTURE FELLOWSHIP HALL: 4,000 GSF MAX. LOT COVERAGE: 10.0% BLDG, 75% IMPERVIOUS EXISTING LOT COVERAGE: 1.81% BLDG, 12.4% IMPERVIOUS PROPOSED LOT COVERAGE: 2.87% BLDG, 23.1% IMPERVIOUS MIN. LOT AREA REQUIRED FOR ZONING: 5 ACRE EX. LOT AREA: 11.21 AC \pm (488,308 SQ FT) TOTAL WORKING AREA: 3.85 AC \pm (167,513 SQ FT) MIN. LOT WIDTH: 330 FT TOTAL EXISTING LOT WIDTH: 815.86 FT IMPERVIOUS AREAS = 50,848 SF (1.17 AC) EXISTING ASPHALT PARKING PROPOSED ASPHALT PARKING 37,169 SF (0.85 AC) EXISTING CONCRETE WALK 732 SF (0.02 AC) 10,027 SF (0.23 AC) PROPOSED CONCRETE WALK 8,815 SF (0.20 AC) EXISTING BUILDING PROPOSED BUILDING 5,183 SF (0.12 AC) SUBTOTAL: 112,774 SF (2.59 AC) GRAVEL SURFACE = 47,917 SF (1.10 AC) EXISTING GRAVEL DRIVE SUBTOTAL: 28,743 SF (0.66 AC) PERVIOUS AREAS = EXISTING LAWN/VEGETATION 346,791 SF (7.96 AC) SUBTOTAL: 346,791 SF (7.96 AC) TOTAL: 488,308 SF (11.21 AC) MIN. SETBACKS REQUIRED: **EXISTING SETBACKS:** RIGHT-OF-WAY: FRONT: 35-FT 35-FT SIDE: 10-FT 10-FT REAR: 10-FT 10-FT MAX BLDG HGT: 35-FT 35-FT (2-STORY) PARKING CALCULATION: EXPECTED OCCUPANCY FOR NEW CHURCH CATHEDRAL IS 300 PEOPLE. REQUIRED PARKING FOR THE INSTITUTIONAL USE OF A CHURCH IS 1 SPACE PER 3 SEATS = 100 SPACES REQUIRED INCLUDING 4 BARRIER-FREE SPACES. EXISTING PARKING IS 69 SPACES, INCLUDING 6 BARRIER-FREE SPACES ADJACENT TO THE EXISTING CHURCH. 6 TYPICAL PARKING SPACES WILL BE REMOVED TO MAKE ROOM FOR THE DUMPSTER AND 15-FT WIDE ONE WAY DRIVE WITH AN ADDITIONAL 76 PROPOSED SPACES ADDED TO THE PROPOSED PARKING LOTS. TOTAL PROVIDED PARKING: 139 SPACES (39) INCLUDING 5 ADDITIONAL BARRIER-FREE SPACES (PER TOWNSHIP REQUIREMENTS)

GENERAL NOTES:

1. SEE ARCHITECTURAL PLANS FOR CATHEDRAL BUILDING INFORMATION.

BILLBOARD E/S GRAVEL DRIVE. ELEV.=931.33'

SITE BENCHMARKS (NAVD88 DATUM):

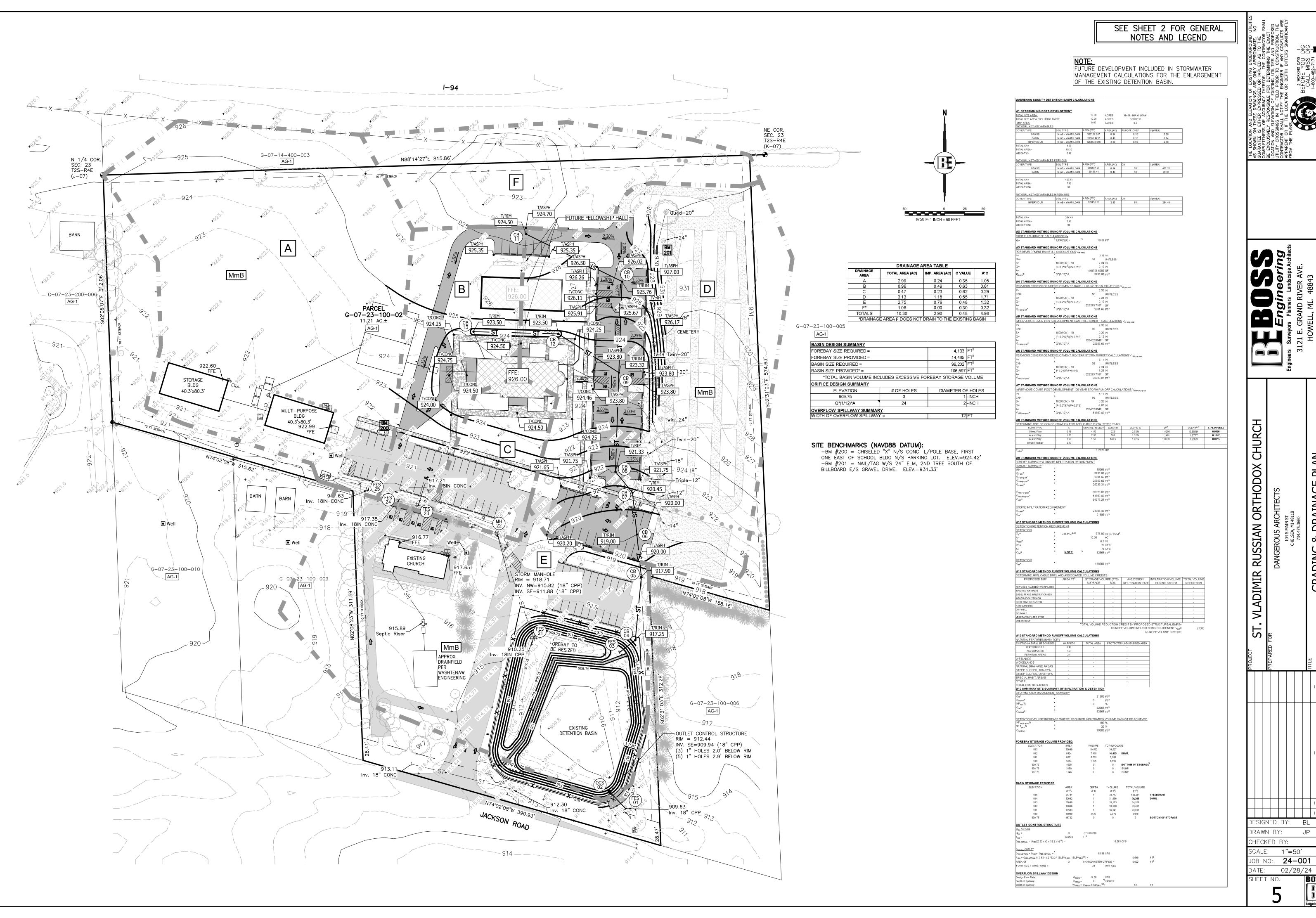
2. WATER SERVICES FOR THE PROPOSED CATHEDRAL WILL COME FROM A PROPOSED ONSITE WELL. THE EXISTING WELL WILL CONTINUE TO SERVICE THE EXISTING CHURCH AND OTHER RELATED BUILDINGS.

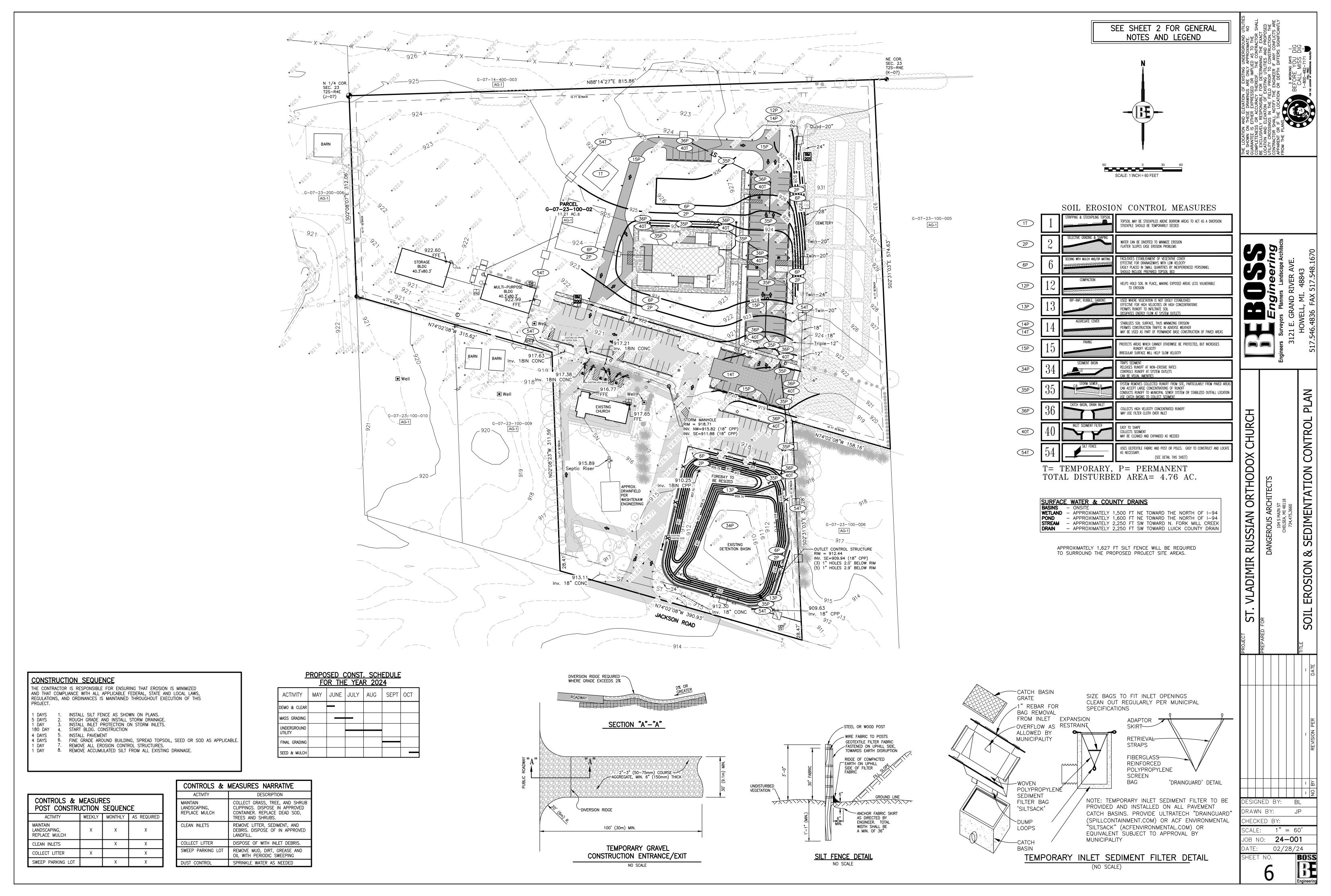
-BM #200 = CHISELED "X" N/S CONC. L/POLE BASE, FIRST ONE EAST OF SCHOOL BLDG N/S PARKING LOT. ELEV.=924.42'

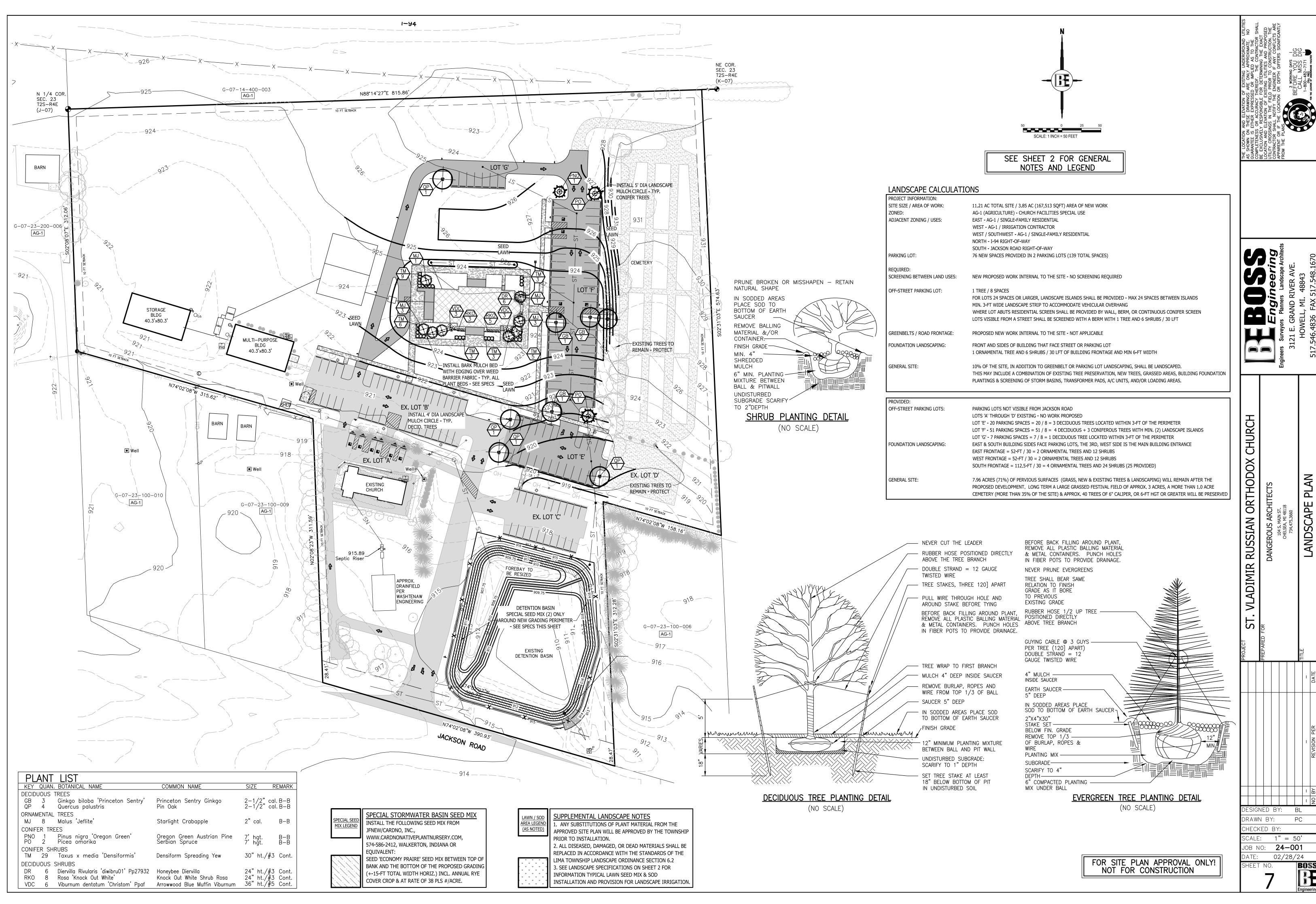
-BM #201 = NAIL/TAG W/S 24" ELM, 2ND TREE SOUTH OF

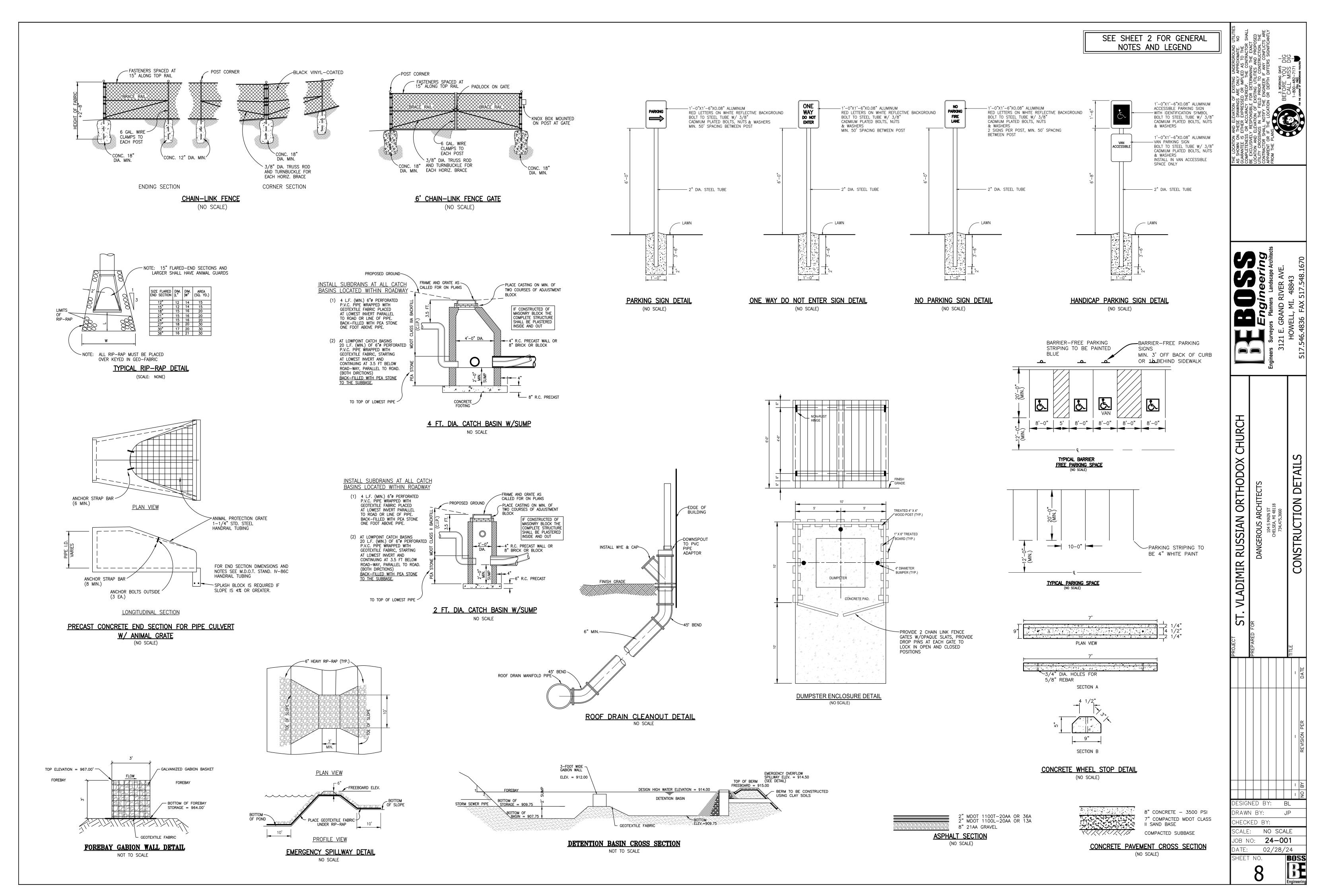
3. SANITARY SERVICES FOR THE PROPOSED CATHEDRAL WILL CONNECT TO THE EXISTING SEPTIC FIELD ONSITE. THE EXISTING SEPTIC FIELD WILL CONTINUE TO SERVICE THE EXISTING CHURCH AND OTHER RELATED BUILDINGS. 4. STORM WATER WILL BE COLLECTED USING THE

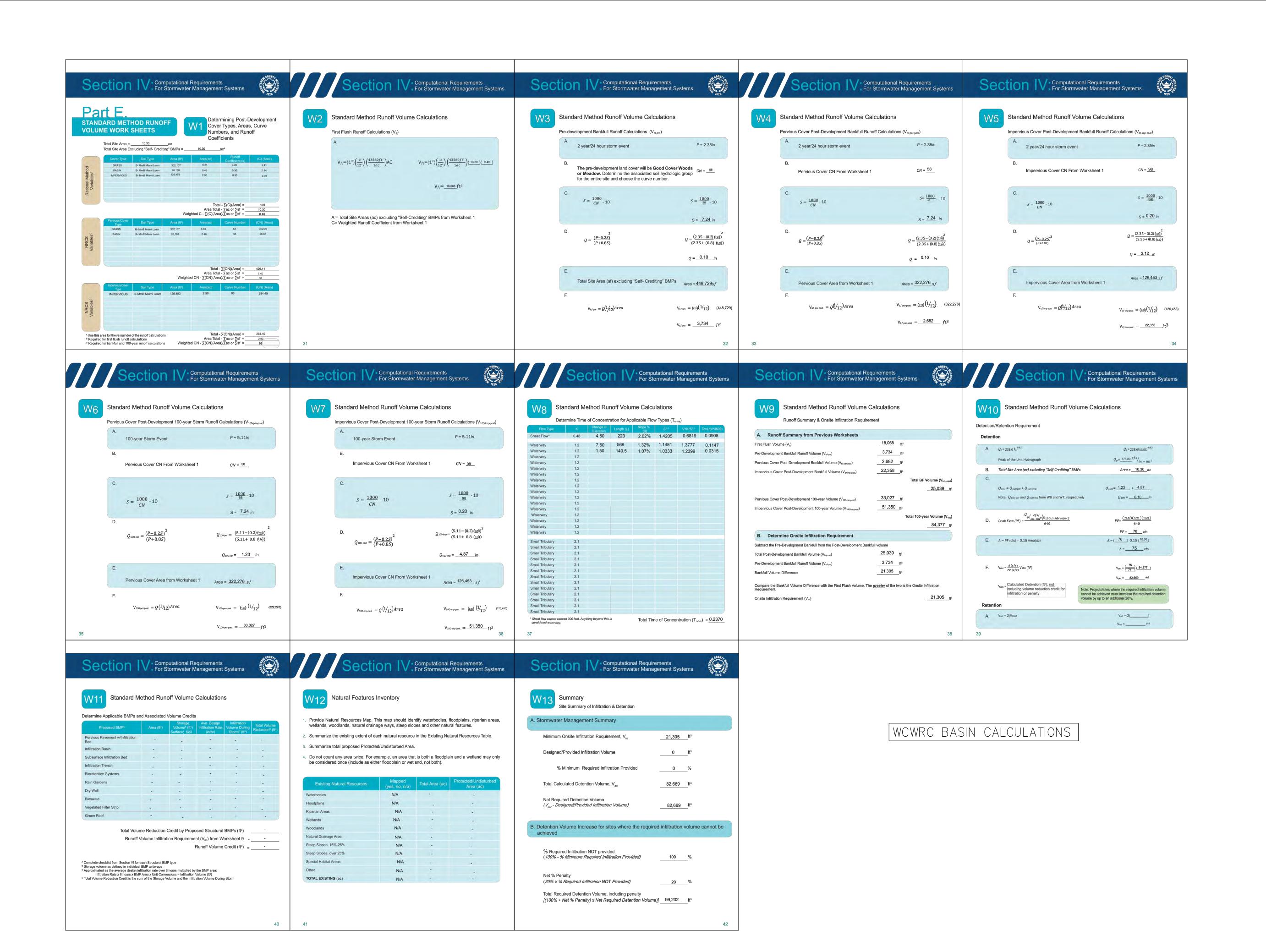
PROPOSED STORM SEWER NETWORK, ULTIMATELY DRAINING INTO THE RESIZED EXISTING ONSITE DETENTION BASIN.







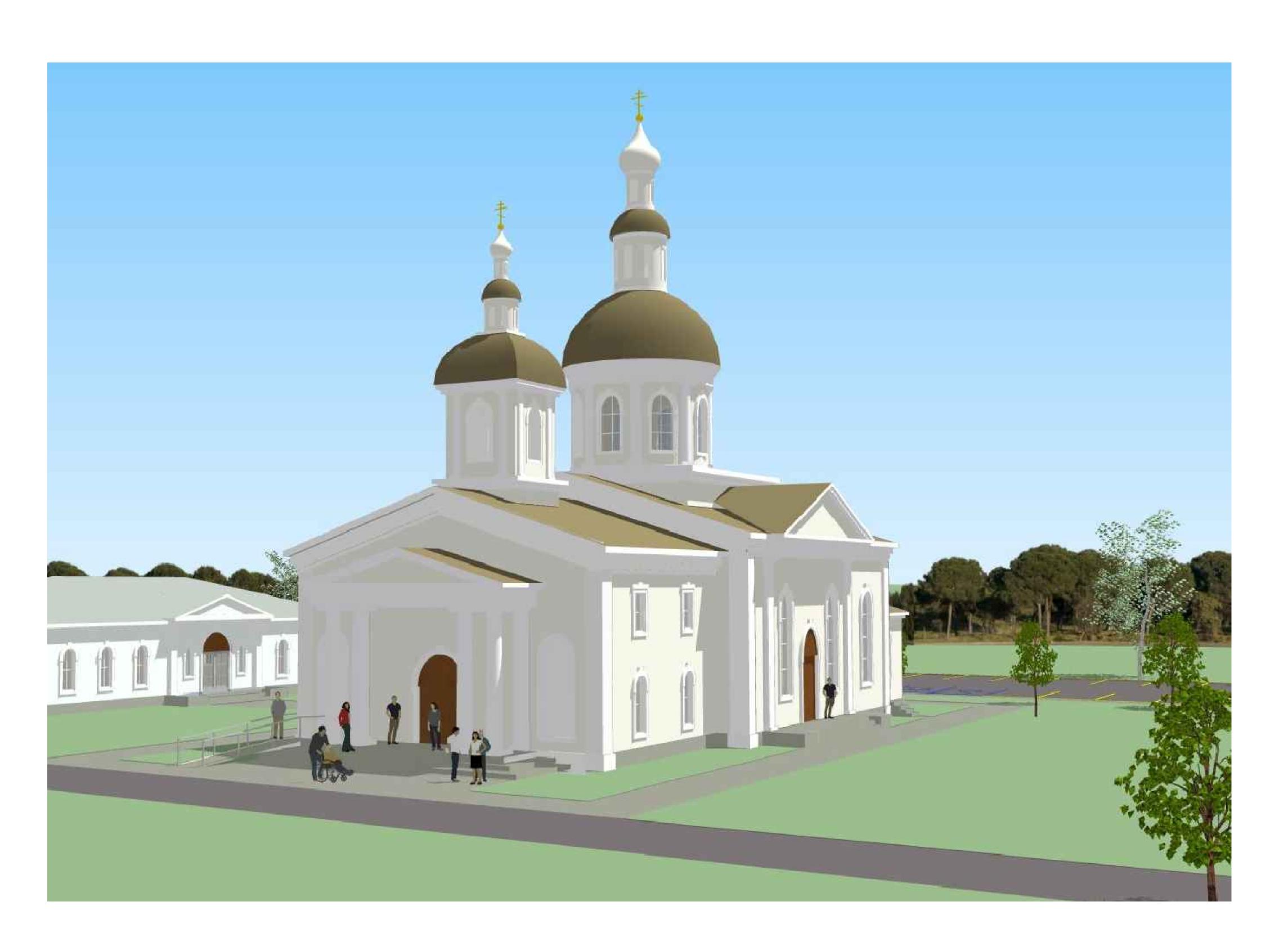




THE LO AS SHC GUARAN COMPLE BE EXC LOCATIO UTILITY CONTRA APPARE FROM T CHURCH NOIL ŏ ORTHOD ARCHITECTS

AAIN ST
MI 48118 RUSSIAN (STORMWATER VLADIMIR DESIGNED BY: DRAWN BY: CHECKED BY: SCALE: NO SCALE JOB NO: **24-001** 02/28/24

· ST, VLADIMIR RUSSIAN ORTHODOX CHURCH



GENERAL NOTES:

THE DRAWINGS AND SPECIFICATIONS HEREIN. ANY DEVIATIONS FROM THE APPROVED IN WRITING. THE ARCHITECT RESULTING FROM UNAUTHORIZED DEVIATIONS FROM THE DRAWINGS AND SPECIFICATIONS.

DRAWINGS. IF DIMENSIONAL QUESTIONS ARISE, CONTACT THE ARCHITECT.

F. ALL ELECTRICAL WORK SHALL BE IN COMPLIANCE WITH THE MICHIGAN ELECTRICAL CODE.

PRIOR TO PROVIDING QUOTATIONS, OR ORDERING MATERIALS.

PRIOR TO EXCAVATION.

OTHERWISE.

SHEET NUMBER

WALL SECTION MARKER

WINDOW TAG

ABBREVIATIONS:

CENTER LINE

DIAMETER, ROUND

NUMBER, POUNDS

A. THE CONTRACTOR SHALL ADHERE TO DRAWINGS AND SPECIFICATIONS MUST BE WILL NOT BE HELD LIABLE FOR DAMAGES

B. VERIFY PROPERTY AND SETBACK LINES PRIOR TO STAKING OUT NEW WORK.

C. DO NOT SCALE OFF FROM THE

D. ALL CONSTRUCTION WORK SHALL BE IN CONFORMANCE WITH THE LIFE SAFETY CODE, MICHIGAN 2015 BUILDING CODE, THE MICHIGAN BARRIER FREE CODE, AND THE ADA LAW.

E. ALL MECHANICAL WORK SHALL BE IN COMPLIANCE WITH THE MICHIGAN MECHANICAL CODE.

G. VERIFY ALL EXISTING CONDITIONS

H. CALL MISS DIG TO LOCATE UTILITIES

I. ALL DIMENSIONS ARE TO EDGE OF DRIVES, WALKS, FACE OF STUDS, FACE OF C.M.U., AND CENTERLINE OF DOORS / WINDOWS, AND POSTS, UNLESS NOTED



DETAIL NUMBER

SHEET NUMBER

DRAWING TITLE

DETAIL NUMBER

X## SHEET NUMBER



DOOR TAG DOOR NUMBER

ROOM TAG ROOM NUMBER

WINDOW NUMBER

ACT.	ACOUSTICAL	JI.	JUINT	
ADJ.	CEILING TILE ADJACENT	LBS.	POUNDS	S
A.F.F.	ABOVE FINISHED	LAV.	LAVATORY	
А.Г.Г.	FLOOR	LLV.	LONG LEG	
ALT	ALTERNATE		VERTICAL	
ALUM	ALUMINUM	LLH.	LONG LEG	U W
ALOW	ALGIVIIIVGIVI		HORIZONTAL	
BD.	BOARD	MDF.	MEDIUM DENSITY	
BM.	BENCHMARK, BEAM		FIBERBOARD	
BRG.	BEARING			
BSMT.	BASEMENT	MH.	MANHOLE	
BIT.	BITUMINOUS	MFR.	MANUFACTUR(ER)	
		M.O.	MASONRY	
BLK.	BLOCK		OPENING	
BLKG.	BLOCKING	MAX.	MAXIMUM	+ ~
B.O.T.	BOTTOM OF	MECH.	MECHANICAL -	\sim \sim \sim
	TRUSS			ain St 48118
вот.	ВОТТОМ	MIN.	MINIMUM	S m = T
BLDG.	BUILDING	MISC.	MISCELLANEOUS	Main . 48
		NO.	NUMBER	
C.J.	CONTROL JOINT,	N.	NORTH	
	CONSTRUCTION	N.I.C.	NOT IN	
	JOINT		CONTRACT	
CLR.	CLEAR	NITC	NOT TO COALE	■
CAB.	CABINET	N.T.S.	NOT TO SCALE	GER South Sa, MI
CPT.	CARPET(ED)	0.S.B.	ORIENTED STRAN BOARD	
C.B.	CATCH BASIN	O.C.		S.366
		O.C. OPP.	ON CENTER OPPOSITE	
CLG.	CEILING	0.D.	OUTSIDE	
C.T.	CERAMIC TILE	U.D.	DIAMETER	ANGEROUS 104 South Main Chelsea, Ml. 481
COL.	COLUMN		DIAWLILK	10 C C C C C C C C C C C C C C C C C C C
CONC.	CONCRETE	OPNG.	OPENING	
C.M.U.	CONCRETE	OFNG.	OVERHEAD	

I.D. INSIDE DIAMETER
INT. INTERIOR
INV. INVERT
INS. INSULATION
JT. JOINT

OPPOSITE OUTSIDE DIAMETER CEILING
CERAMIC TILE
COLUMN
CONCRETE
CONCRETE
MASONRY UNIT OPNG. OPENING
O.H. OVERHEAD
PNT. PAINT
PLAM. PLASTIC
LAMINATE
PLWD. PLYWOOD
PTD. PAINTED
PVC. POLYVINYL
CHLORIDE
Q.T. QUARRY TILE
R, RAD. RADIUS
R.A. RETURN AIR
REF. REFERENCE CONST. CONSTRUCTION
CONT. CONTINUE, (ED),
(OUS)
CONTR. CONTRACT(OR)
DIA. DIAMETER
DWG. DRAWING DOWNSPOUT
DETAIL
DOUBLE
DOOR
EGRESS
EXHAUST FAN
EVERY OTHER
ETHYLENE
PROPYLENE
DIENE MONOMER RQD. REQUIRED
R.O.W. RIGHT OF WAY
R.D. ROOF DRAIN
RM ROOM
R.O. ROUGH OPENING

SOUTH SCHEDULE SERVICE SINK SINK SHEET DIENE MONOMER
ELECTRIC(AL)
ELEVATOR
EQUAL
EXHAUST
EXPANSION JOINT
EXTERIOR
EXTERIOR
INSULATION
FINISHING
SYSTEM
EXISTING
FINISH(ED) SIM. SIMILAR
SPEC. SPECIFICATION(S)
SQ. SQUARE
SHTG. SHEATHING
S.S. STAINLESS STEEL STANDARD STEEL STRUCTURAL TOILET TONGUE & GROOVE FOOT, FEET

S. FIBERGLASS

A. FIRE ALARM

F.B.O. FURNISHED

BY OWNER

F.E. FIRE

EVENING HIGHE TREAD

TERRAZO

E. TO MATCH
EXISTING

TOOLOGE

TOOLOGE

TOP OF STEEL

TOP OF
CONCRETE

TYP. TYPICAL EXTINGUISHER FLR. FLOOR(ING) F.D. FLOOR DRAIN FOOTING FOUNDATION UNDERWRITERS LABORATORIES INC.

VOLT
VINYL BASE
VINYL
COMPOSITION TILE
VERTICAL HDR. HEADER
HDWD. HARDWOOD
HDWE. HARDWARE
HTG. HEATING
HVAC. HEATING/
VENTILATION, AIR
CONDITIONING
HT. HEIGHT
HTR. HEATER
H.M. HOLLOW METAL

COMPOSITION TILE
VERTICAL
VERT. VERIFY IN FIELD
W.W.M. WELDED WIRE
W.W.M. WELDED WIRE
WESH
WATER
WATER
WOOD

T1 TITLE SHEET

A1 PROPOSED LOWER LEVEL PLAN A2 PROPOSED MAIN FLOOR PLAN A3 PROPOSED SECOND FLOOR PLAN

A4 EXTERIOR ELEVATIONS

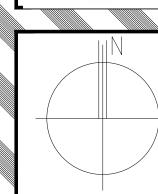
A5 EXTERIOR ELEVATION

A6 EXTERIOR ELEVATION A7—BUILDING SECTIONS

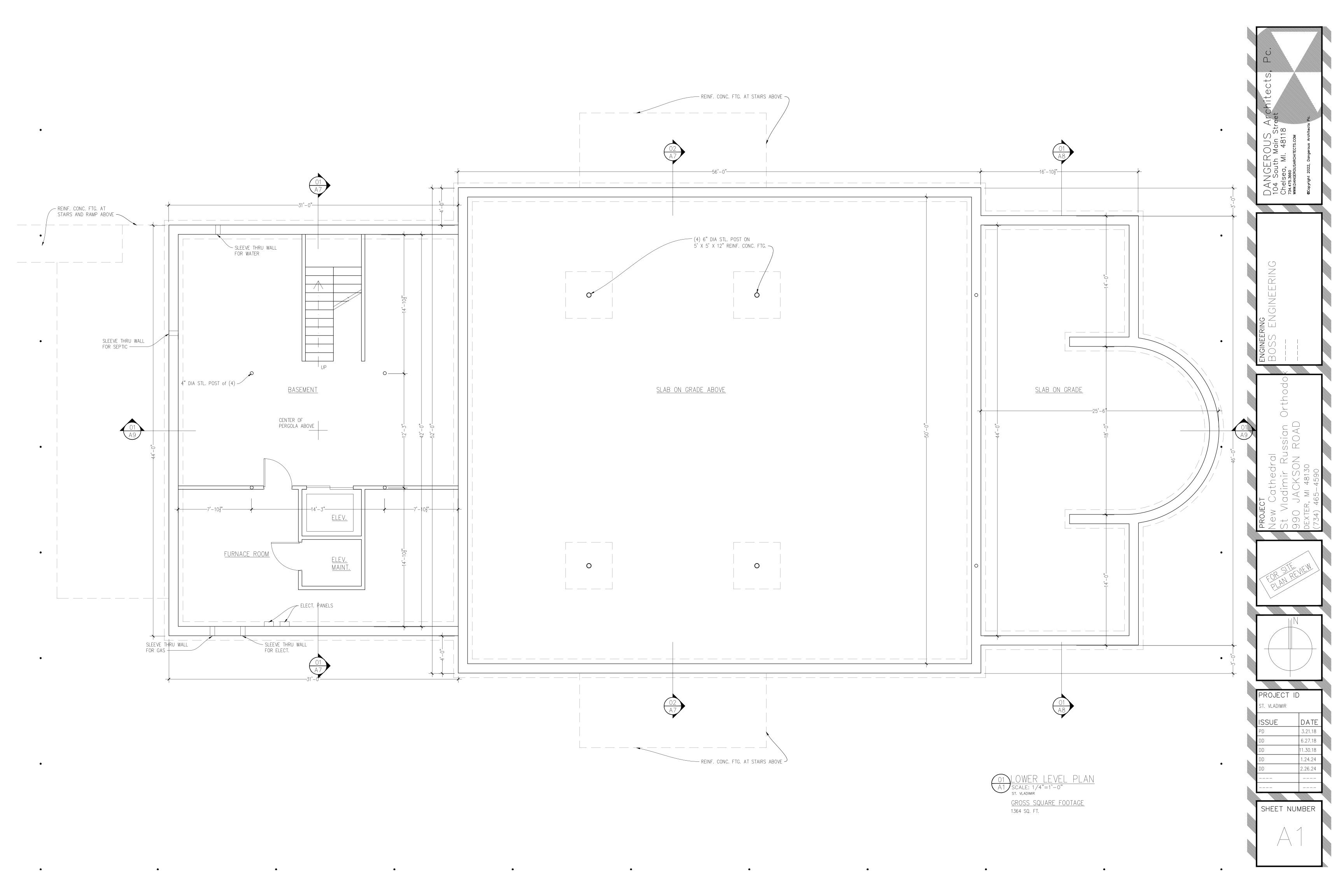
A8 -BUILDING SECTIONS

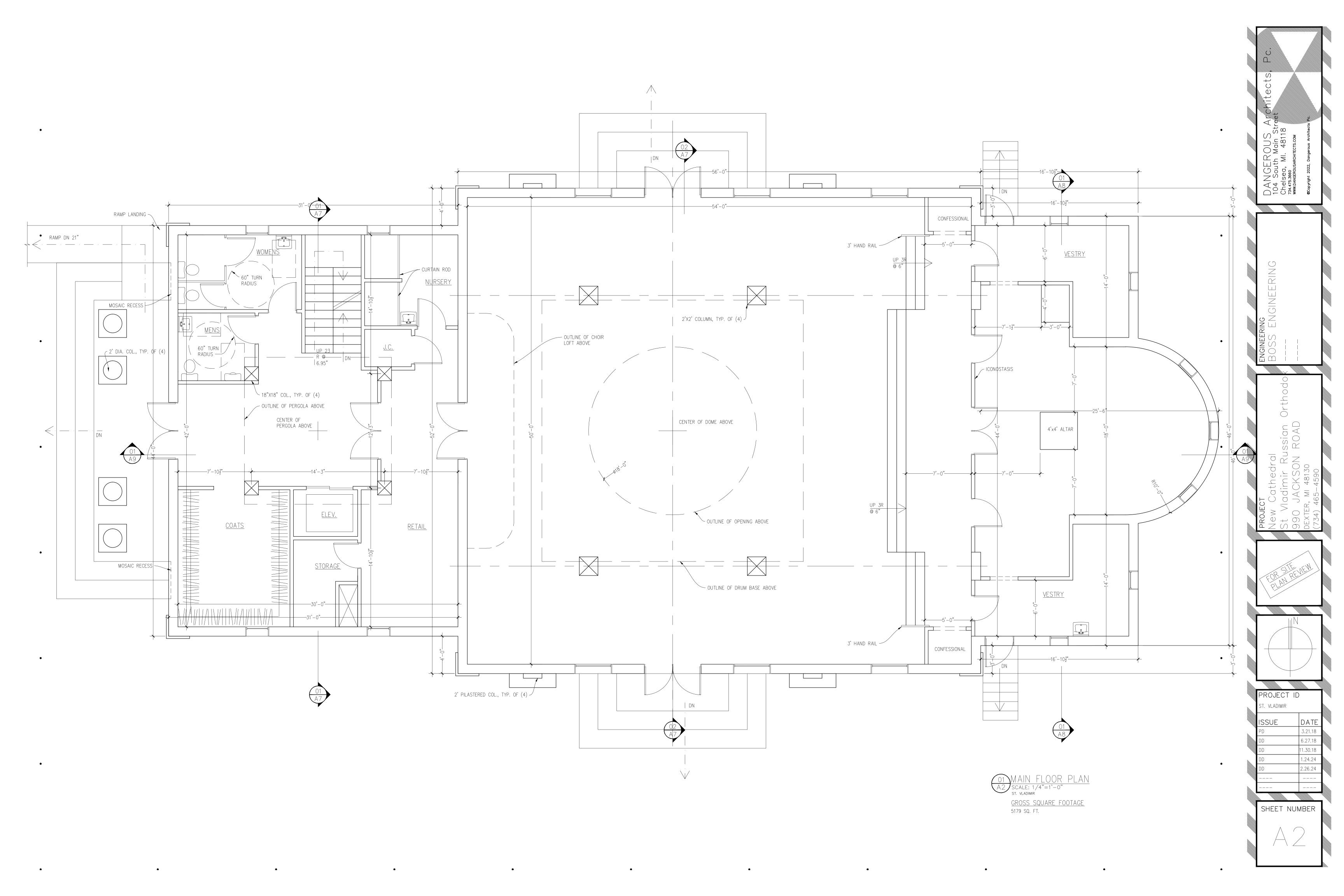
A9—BUILDING SECTIONS

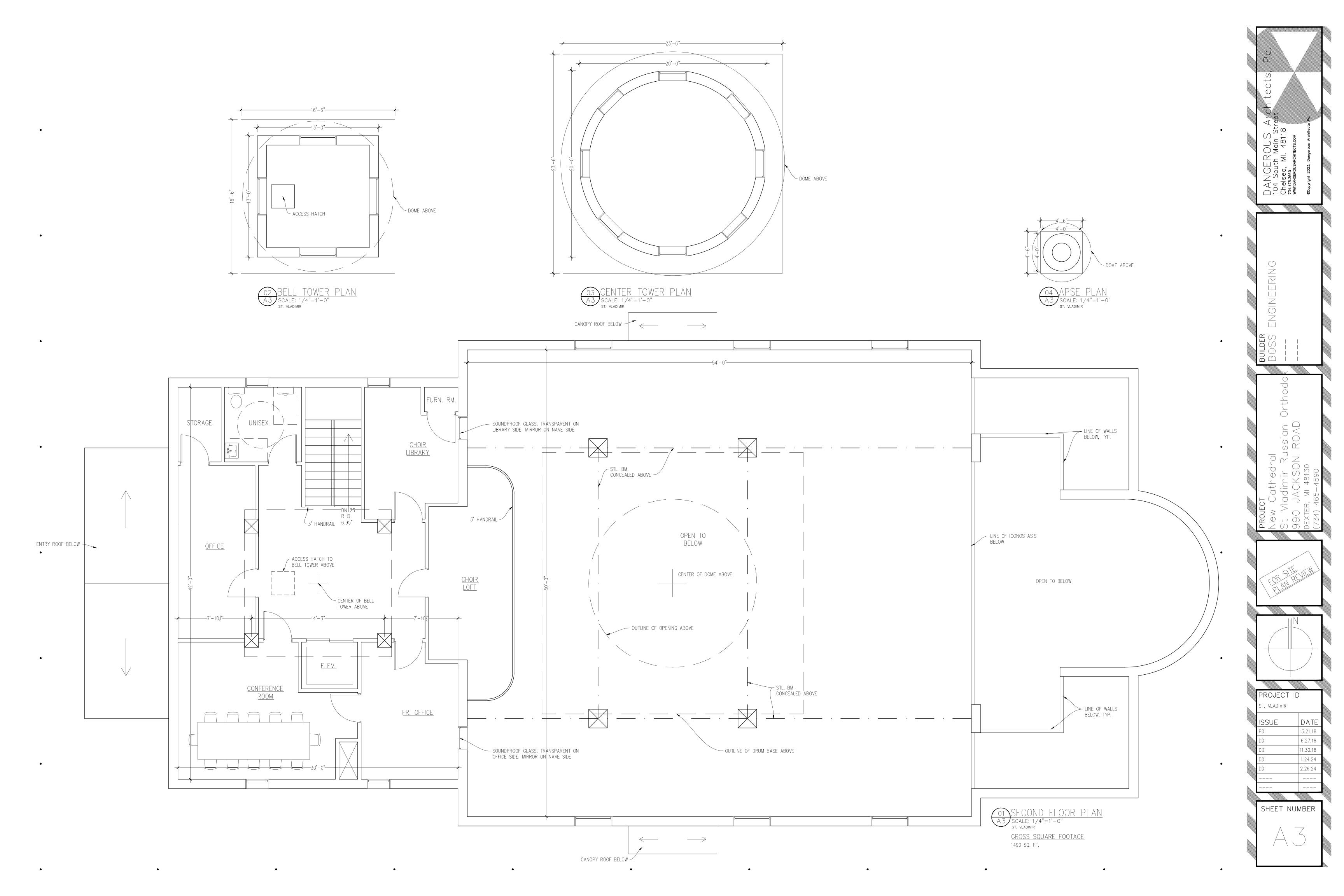




_		
	PROJECT ID)
"	ST. VLADIMIR	
	ISSUE	DATE
"	PD	3.21.18











ISSUE	DATE	
PD	3.21.18	
DD	6.27.18	
DD	11.30.18	
DD	1.24.24	
DD	2.26.24	



SI. VLADIMIR	
ISSUE	DATE
PD	3.21.18
DD	6.27.18
DD	11.30.18
DD	1.24.24
DD	2.26.24



117 NORTH FIRST STREET SUITE 70 ANN ARBOR, MI 48104 734.662.2200 734.662.1935 FAX

Date: March 13, 2024

Site Plan Review For Lima Township, Michigan

Applicant: Lima Township

Project Name: Lima Township Hall, New Addition and Renovation

Plan Date: March 1, 2024 (Architectural)

March 3, 2024 (Engineering)

Location: 11452 Jackson Road

Zoning: R-1A Single Family Residential

Action Requested: Site Plan Approval

PROJECT AND SITE DESCRIPTION

The applicant is requesting site plan approval for a new building addition and interior renovation to the Lima Township Hall located at 11452 Jackson Road. The property is within the R-1A Single Family Residential Zoning District. The project spans three (3) individual Township-owned properties with ID numbers G-07-15-360-002, G-07-15-360-001, and G-07-15-360-005, totaling 1.57 acres. The project involves extending the building to the rear/north, reconfiguring the building entrance, renovating the interior of the existing structure, replacing all of the exterior siding, removing an existing chimney, and constructing a new tower. A new paved parking lot will also be constructed with twenty (20) parking spaces. The project will increase the floor area by 1,793 square feet to allow the construction of office spaces including two individual restrooms, a conference room, and a reception area. The subject site is located on the north side of Jackson Road, east of N Lima Center Drive. Figure 1 shows the aerial view of the subject site and vicinity, and Table 1 shows the zoning and uses of the subject site and surrounding properties.

Figure 1. Aerial Image of Subject Site and Vicinity

Source: Nearmap.com

Table 1. Surrounding Property Details

	North	South	East	West
Zoning District	AG-1: Agriculture	GC: General Commercial	AG-1: Agriculture	R-1A: Single Family Residential
Land Use	Crop land	Towing Services Business	Single family residence	Single family residences

The property is bordered on the north and east sides by 66 foot wide right-of-way that has never been developed as a road.

Items to be Addressed: None.

AREA, WIDTH, HEIGHT, SETBACKS

The R-1A zoning district dimensional requirements are detailed in Table 2. Section 4.3.9. of the zoning ordinance exempts belfries from height regulations.

Two sets of plans were submitted for this project which included an engineering plan and an architectural plan. The site data was provided in the architectural plan set. The current

Township Hall projects into the front yard setback by over thirty-one and a half (31'6-3/4") feet, according to the table on Sheet T1. The front setback line should be depicted on the site plan. The building was in place prior to the current zoning regulations, making the building legally nonconforming. It is unclear if this front setback distance is measured from the building or the porch/ramp structure. It appears that the dimensions of the proposed porch project into the setback less than the existing porch, but this should be clarified by on the plan, as Sheet T1 indicates that the projection into the front yard setback is proposed to stay the same. Dimensions of both the existing and new porch/ramp area are required to determine how the setback projection is changing and if a variance is required.

Table 2. Dimensional Requirements

	Required	<u>Provided</u>	<u>Compliance</u>
Lot Area	1 acre	1.57 Acres	Complies
Lot Width	150 Feet	330 Feet	Complies
Front Setback 50 Feet		18 Feet 5 ¼ Inches	Dimensions of existing and proposed porch required
Side Setback	10 Feet	10 Feet 1 Inch	Complies
Rear Setback	10 Feet	105 Feet 8 ¾ Inches	Complies
Lot Coverage	30% Max	4.7%	Complies
Floor Area Ratio	60% Max	9%	Complies
Building Height	35 feet Max	Roof: 26 Feet 8 Inches Tower: 42 Feet	Complies

Items to be Addressed: (1) Combine the two plan sets for the final site plan submittal. (2) Depict the front setback on the site plan. (3) Applicant shall provide dimensions of existing and proposed porch/ramp area. (4) Applicant shall indicate where on the structure the setback distance is measured from.

PARKING AND LOADING

The project includes the construction of a new twenty (20) space parking area with a twenty-four (24') foot wide drive aisle to accommodate two-way traffic. The engineering drawings indicate the proposed surface of the parking area will be bituminous.

Section 11.4 of the Zoning Ordinance establishes requirements for off-street parking spaces. It appears that the requirements for professional offices were applied to the Township Hall. Places of Assembly is not a defined use group to determine parking requirements in Section 11.4. However, we would recommend that the Planning Commission discuss how overflow parking will be handled in the event that there is an activity at the hall that would require additional spaces.

Table 3. Off-Street Parking Requirements

	Requirement	No. of Spaces Required	No. Spaces Provided
Professional	1 per 200 square feet of	3,237 square feet / 200 =	20 spaces
Office	floor area	16.185	
		= 17 spaces	
Barrier Free	1 spaces per 1-25 spaces	20 spaces = 1 barrier free	2 barrier free spaces

Items to be Addressed: The Planning Commission should discuss how overflow parking will be handled.

SITE ACCESS AND CIRCULATION

Site access is proposed from Jackson Road from an existing site entrance that will be widened to twenty-four (24') feet. The proposed driveway will curve to the east and lead to the parking area, providing one interior drive aisle for the new parking area. A five (5) footwide concrete sidewalk is proposed around the south, north, and east sides of the building, providing pedestrian access to the three (3) building entrances/exits.

Items to be Addressed: None.

FLOOR PLAN AND ELEVATIONS

Building elevations and floor plans are provided on Sheets F1, A2, A5, and A6. The floor plans show that the new building addition will include office spaces, a conference room, , a wheelchair lift, and a reception area. The existing rear building extension on the north side of the building will be removed to accommodate the new building addition. Three pedestrian access points are provided on the new plan, on the south, north, and east building elevations. All entrances will be accessed from stairs/a ramp.

The plan also proposes the replacement of the existing siding. The colors are not provided. New window treatments are indicated on the south elevation, modeled after historic window character and shape. The window treatments on the north building addition appear to be more modern. The existing chimney on the west elevation will be removed. On the south elevation, above the primary building entrance, a tall tower is proposed, with historic-looking arches and roof shingles to match the existing roof shingles.

Items to be Addressed: None.

LANDSCAPING

No landscape plan was provided with the site plan submission. There is an existing tree near the entrance from Jackson Road, and the applicant has not indicated if this tree is to be preserved or removed with the driveway expansion.

Items to be Addressed: The applicant shall provide a landscape plan and inventory of existing landscaping proposed for removal or preservation on the final site plan.

LIGHTING

No lighting plan was provided with the site plan submission.

Items to be addressed: The applicant must provide a lighting plan with a photometric map, indicating lighting levels along the property lines on the final site plan.

SIGNS

There is an existing "Lima Township Hall" sign above the building entrance on the south elevation, but no proposed sign is depicted in this location on the site plan. Any new signs must receive a separate permit from the Township Zoning Administrator prior to construction.

Items to be Addressed: None.

DRAINAGE AND STORMWATER AND UTILITIES

Grading, stormwater, and drainage details have been provided in the engineering plan produced by the Township Engineer. An existing well is shown on the engineering plans. No Sanitary details have been provided.

Items to be Addressed: (1) We defer to the Township Engineer on grading and drainage. (2) Sanitary detail must be provided on the final site plan.

RECOMMENDATIONS

In general, the proposed plan is consistent with the requirements and recommendations of the Zoning Ordinance. However, there are a number of outstanding issues that need to be addressed or discussed by the Planning Commission. Additionally, there are several items that can be reviewed on the final site plan. The following is a list of outstanding items:

- 1. Combine the two plan sets for the final site plan submittal.
- 2. Depict the front setback on the site plan.
- 3. Applicant shall provide dimensions of existing and proposed porch/ramp area.
- 4. Applicant shall indicate where on the structure the setback distance is measured from.
- 5. The applicant shall provide a landscape plan and inventory of existing landscaping proposed for removal or preservation on the final site plan.
- 6. The applicant must provide a lighting plan with a photometric map, indicating lighting levels along the property lines on the final site plan.
- 7. We defer to the Township Engineer on grading and drainage.
- 8. Sanitary details must be provided on the final site plan.

Respectfully submitted,

CARLISLE/WORTMAN ASSOC.,INC

Paul Montagno, AICP

Principal

163-2400

CC: Luick, Township Supervisor

Kwaske, Township Clerk Sastre, Zoning Administrator Lalik, Township Engineer McElrath, Architect CARLISLE/WORTMAN ASSOC., INC.

Michelle Marin Community Planner

LIMA TOWNSHIP HALL EXPANSION

LIMA TOWNSHIP, WASHTENAW CO., MI PRELIMINARY SITE PLAN

OWNER/APPLICANT

TOWNSHIP OF LIMA
11452 JACKSON ROAD
DEXTER, MI, 48130
CONTACT: DUANE LUICK
734-475-2246

ENGINEER/SURVEYOR/LANDSCAPE ARCH.

MIDWESTERN CONSULTING, LLC 3815 PLAZA DR. ANN ARBOR, MI 48108 CONTACT: ADAM LALIK 734-995-0200

ARCHITECT

DANGEROUS ARCHITECTS
104 S MAIN STREET
CHELSEA, MI, 48118
CONTACT: SCOTT MCELRATH
734-475-3660

PROJECT NARRATIVE

LIMA TOWNSHIP HAS REQUESTED PREPARATION OF A PRELIMINARY SITE PLAN FOR THE EXPANSION OF THE TOWNSHIP BUILDING LOCATED AT 11452 JACKSON ROAD. THE EXPANSION CONSISTS OF A SINGLE FLOOR BUILDING EXPANSION AND A WALKOUT BASEMENT.

SITE IMPROVEMENTS INCLUDE 20 PAVED PARKING SPACES, ADA ACCESS AND RAMPS TO THE EXPANDED PORTION OF THE BUILDING. PROJECT INCLUDES A PAVED 2—WAY DRIVEWAY ENTRY WHICH WILL BE CONSTRUCTED AT THE EXISTING APPROVED DRIVEWAY LOCATION.

THE USE OF THE BUILDING EXPANSION WILL BE PRIMARILY FOR TOWNSHIP OFFICIAL OFFICES WITH APPROXIMATELY 6 FULL TIME EMPLOYEES, AND WILL NOT CAUSE A SIGNIFICANT INCREASE IN TRAFFIC GENERATION.

LEGAL DESCRIPTION

OLD SID - G 07-040-002-00 LI 37-2 LOT 11 EXC THE S 25 FT IN WIDTH THEREOF, ALSO ENTIRE LOT 4 BLK 1 VILLAGE OF HARFORD.

AND,

OLD SID - G 07-040-012-00 LI 37-12 LOT 10 EXCEPT S 25 FT BLK 1 VILLAGE OF HARFORD.

AND,

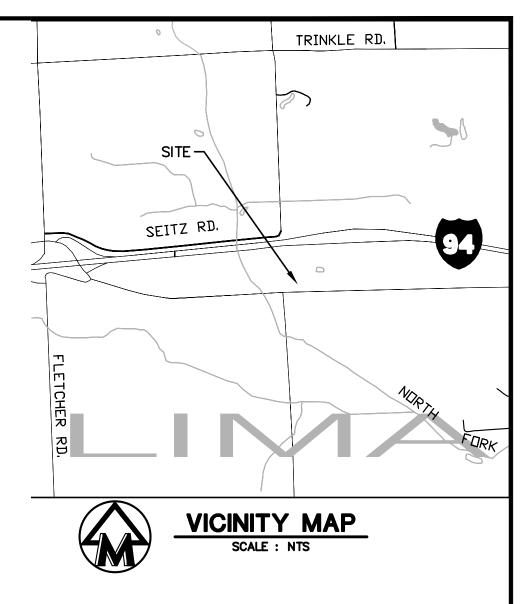
OLD SID - G 07-040-003-00 LI 37-3 LOTS 5,6 & 7 AND 12, 13 & 14EXC THE S 25 FT IN WIDTH OF LOTS 12, 13 & 14 BLK 1 VILLAGE OF HARFORD.

SITE DATA

SEE ARCHITECTURAL PLANS FOR APPLICABLE SITE DATA AND ZONING INFORMATION TABLE



SCALE : NTS



SHEET INDEX

SHEET TITLE

COVER SHEET

EXISTING CONDITIONS & REMOVALS

SITE PLAN

UTILITY PLAN

GRADING PLAN
DETAILED GRADING PLAN

7 SITE DETAILS

LIMA TOWNSHIP HALL EXPANSION



MIDWESTERN

CONSULTING

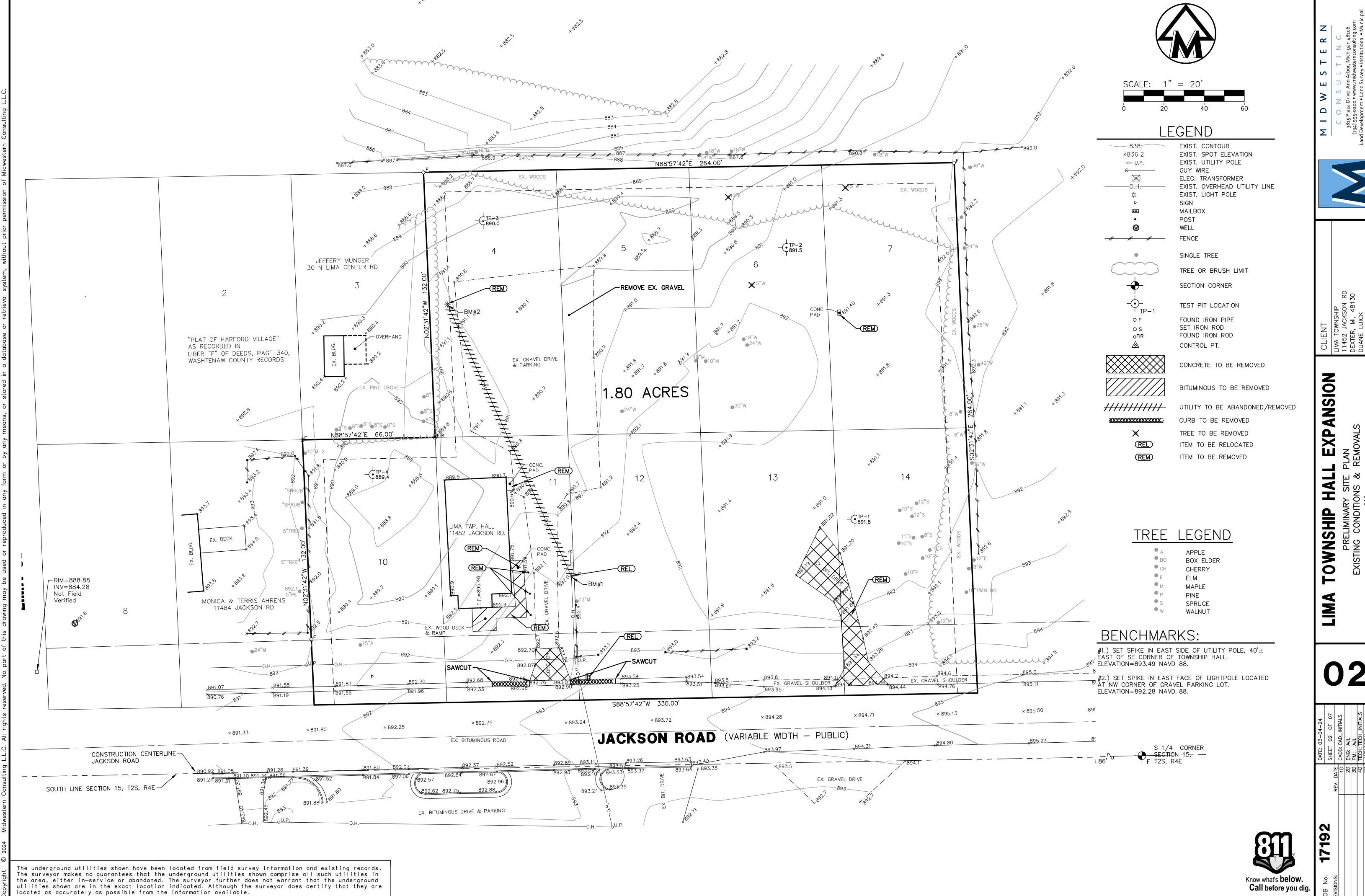
3815 Plaza Drive Ann Arbor, Michigan 48108
(734) 995-0200 • www.midwesternconsulting.com

Land Development • Land Survey • Institutional • Municipal
Wireless Communications • Transportation • Landfill Services

RELEASED FOR: DATE

ADAM J
LALIK
ENGINEER
No.
6201309288

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in—service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.



Call before you dig.



Call before you dig.

NOTES

- 1 1/2" MDOT 4A BITUMINOUS MIX TOP COURSE

MAX. DENSITY. PLACE IN TWO LIFTS.

SUBBASE COMPACTED TO 95% MAX. DENSITY

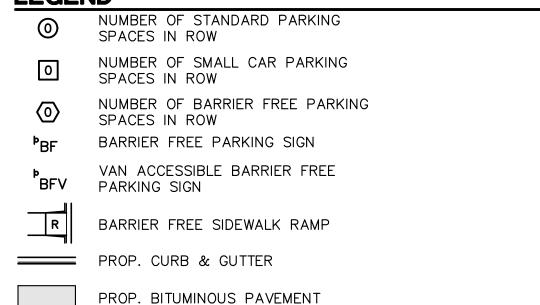
BITUMINOUS PAVEMENT DETAIL

-1 1/2" MDOT 3C BITUMINOUS MIX LEVELING COURSE

-8" MDOT 21AA CRUSHED LIMESTONE COMPACTED TO 95%

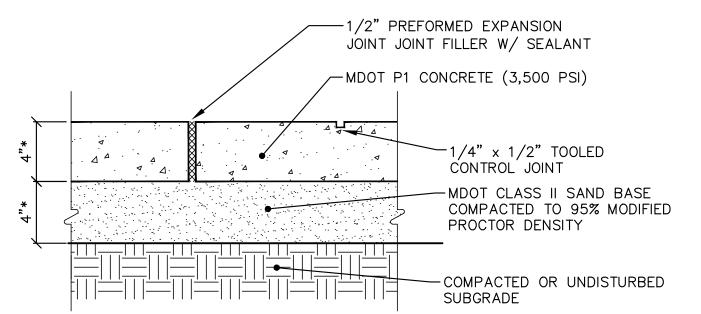
- 1. ALL DIMENSIONS ARE MEASURED TO THE PAINT LINE OR FACE OF CURB UNLESS OTHERWISE NOTED. ALL RADII DIMENSIONS SHOWN ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
- 2. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH CURRENT STANDARDS, SPECIFICATIONS, AND GENERAL CONDITIONS OF THE AUTHORITY HAVING JURISDICTION. 3. REFER TO THE ARCHITECTURAL PLANS FOR DETAILS REGARDING
- THE SCOPE OF WORK FOR THE BUILDING ELEVATIONS, INTERIORS, AND APPURTENANCES. 4. THE CONTRACTOR SHALL CONTACT THE OWNER AND/OR ENGINEER
- PRIOR TO COMMENCING WORK SHOULD THERE BE ANY FIELD CONFLICTS WITH THE DESIGN INTENT.
- 5. NO ONSITE TRASH PICKUP. TRASH WILL BE TAKEN TO CURB FOR

LEGEND



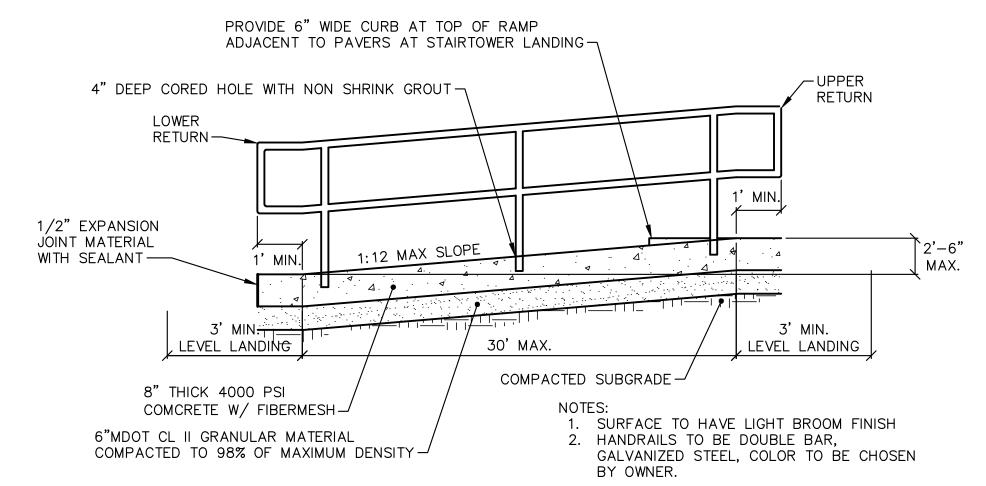
PROP. CONCRETE PAVEMENT SIGN

PROP. SINGLE LIGHT PROP. DOUBLE LIGHT



* INCREASE CONCRETE WALK TO 6" WHEN CROSSING A SINGLE-FAMILY OR DOUBLE-FAMILY DRIVEWAY, AND TO 8" FOR COMMERCIAL DRIVE CROSSINGS. USE 6" CLASS II SAND BASE AT RESIDENTIAL DRIVE CROSSINGS, AND 8" 21AA AGGREGATE BASE (98% MODIFIED PROCTOR) AT COMMERCIAL DRIVE CROSSINGS.

CONCRETE WALK DETAIL



CONCRETE RAMP WITH RAILS DETAIL



The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in

the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

SIO 4 Ш HALI Y SITE PLAN OWNSHIP
PRELIMINAR
SITE

	DATE: 03-04-24	SHEET 03 OF 07		CADD: CAD_INITIALS	ENG: AJL	PM: AJL	TECH: TECH_INITIALS	/17192SP1
		L 1	KEV. DAIE	1D	3D	Œ	4D	QS
I								

1 -	Determining Post-Develo			noff Coefficients					ed Detention		(Reduced by	y 6-hour infiltration)		
	Cover Type Building/Pavement Grass	Soil Type B	Area (sft) 13,550 15,120	Area (ac 0.31 0.35) Runo	off Coeff. (C) 0.95 0.25	(C) x (Area) 0.30 0.09	Storm E First Flu Bankfull	ısh			Req'd Volume less 1,386 cft - 2,842 cft -	2,009 cft 2,009 cft	= =
	Total		28,670 Weighted C = (Sum(0.66	Total)=	0.58	0.38	100 -yea		nalty		7,919 cft - 8,218 cft -	2,009 cft 2,009 cft 2,009 cft	= = =
	NRCS Variables (Perviou Cover Type Grass	us) Soil Type	Area (sft) 15,120	Area (ac 0.35) Cur	ve Number 69	(CN) x (Area) 0.24]	Volume Red		of 100-yr)			=
	Total	D	15,120 15,120 Weighted CN = (Sum(C	0.35	Total)=	69	0.24	B. Detention	on Volumes	Elevation	Area (sft)	Depth (ft)	Volume (cft)	Cum. Vol
	NCRS Variables (Imperv Cover Type	vious) Soil Type	Area (sft)	Area (ac		ve Number	(CN) x (Area)			887.0 888.0	2,678 3,401	0	0 3,032	3,0
	Building/Pavement Total		13,550 13,550 Weighted CN = (Sum(C	0.31 0.31	Total)=	98	0.30 0.30			889.0	4,180	1	3,784 Total Volume =	6,8 6,8
<u> </u>	W2 - First Flush Runoff C	Calculations (Vff)	Weighted ON - (Came	(14)X(/ ((ca))/(/ ((ca	rotar)–	50		C Full Infi	iltration Des	L				
Α.	Vff = 1" x 1/12" x 43560 s		where A= 0.66		ere C= 0.58				orage Volum	_			8,218 cft	
3 -	Vff = 1" x 1/12" x 43560 s W3 - Pre-Development E	sft/ac x 0.66 Bankfull Runoff Calculations		=	1,386 cf			Infiltratio Infiltratio	on Area on Rate, Aver	rage			2678 sft 1.50 in/hi	
Α	2 year / 24 hour storm everPre-Development CN	ent:	, ,	P=	2.35 in				on Flow Rate Fully Drain				334.75 cft/h 24.5 hr	hr
	(Developed Area, Good Co S = (1000 / CN) - 10	,		CN= S=	61 6.393 in			This is I	ess than 48	hours max	x, so the bas	sin complies with the	drawdown requi	irement.
E.	Q = $[(P-0.2S)^2] / [P+0.8S]$ Total Site Area excluding " Vbf-pre = Q x (1/12) x Area	"Self-Crediting" BMPs		Q= Vbf-pre =	0.154 in 28,670 sft 367 cft									
	, ,	velopment Bankfull Runoff(Calculations (Vbf-per-post)	•	307 GR									
A B	2 year / 24 hour storm everPervious Cover CN From V	ent:		P= CN=	2.35 in 69									
С	S. $S = (1000 / CN) - 10$ D. $Q = [(P-0.2S)^2] / [P+0.8S]$			S= Q=	4.493 in 0.354 in									
	. Pervious Cover Area from \ . Vbf-per-post = Q x (1/12) x		Vbt	f-per-post =	15,120 sft 447 cft									
	. 2 year / 24 hour storm ever		Runoff Calculations (Vbf-in	mp-post) P=	2.35 in									
C	. Impervious Cover CN From S = (1000 / CN) - 10			CN= S=	98 0.204 in									
Е	 Q = [(P-0.2S)^2] / [P+0.8S] Impervious Cover Area from Vbf-imp-post = Q x (1/12) x 	m Worksheet 1	16.	Q= f-imp-post =	2.122 in 13,550 sft 2,396 cft									
		area st-Development 100-Year Ru			≥,000 UIL									
A B	. 100 year / 24 hour storm e. Pervious Cover CN From V	event:	, p-	P= CN=	5.11 in 69						-## 88	87 <i># # #</i> _ F		
С	S. S = (1000 / CN) - 10 D. Q = [(P-0.2S)^2] / [P+0.8S] Reprious Cover Area from 1			S= Q=	4.493 in 2.038 in								80.7 ×	m
	Pervious Cover Area from \ V100-per-post = Q x (1/12)		V100)-per-post =	15,120 sft 2,567 cft						888			
А	. 2 year / 24 hour storm ever		Runoff Calculations (V100	P=	5.11 in							××°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°°		ı
B	. Impervious Cover CN From . S = (1000 / CN) - 10	n Worksheet 1		CN= S=	98 0.204 in							***************************************		TP_3 890.0
Е	 Q = [(P-0.2S)^2] / [P+0.8S Impervious Cover Area fron Vbf-imp-post = Q x (1/12) x 	m Worksheet 1	V/c.	Q= f-imp-post =	4.873 in 13,550 sft 5,502 cft						,	889		
} -	Time of Concentration (Tc-hrs)	VDI	, πτ ρ -μυσι -	0,002 GIL							3		
А	. Assume 15-minute minimu	um time of concentration	Tc= 0.25	hr				3	JEFFER 30 N LIM	RY MUNG A CENTE		300	। र्द	
) - A	Summary from Previous W		nt		4 200 - "						/	2.00,	1	
		full Runoff Volume (Vbf-pre) elopment Bankfull Volume (Vb			1,386 cft 367 cft 447 cft							13		
		evelopment Bankfull Volume (\			2,396 cft 2,842 cft							42."W		
	Pervious Cover Post-Devel Impervious Cover Post-De	elopment 100-Year Volume (V1 evelopment 100-Year Volume (2,567 cft 5,502 cft							[2]		
В	Total 100-Year Volume (Determine Onsite Infiltratio	on Requirement	opploment B. J. C. P. C.		8,070 cft			- *** -	<u> </u>	Т	1	NO2	897.7	4
	Subtract the Pre-Developm Total Post-Development Barkfull		evelopment Bankfull Volume		2,842 cft 367 cft			340,	BLDG.				φ΄	/
	Bankfull Volume Differer Infiltration Requirement	nce			367 Cπ 2,475 cft 2,475 cft			₹DS	Ä	 	!			•
0 -	Detention/Retention Req	. ,			·						V DINE CO			ÌM
В	. Qp = 238.6 Tc^-0.82 . Total Site Area excluding "	"Self-Crediting" BMPs			743.63 cfs/(in x 0.66 ac	sq. mi)				E	X. PINE GR	•8"\$ }	890,6	
	 Q100 = Q100-per + Q100-imp (from W6 and W7, respect Peak Flow (PF) = Qp x Q1 	tively)			6.911 in 5.28 cfs							8"S 3	<u>5.16′</u>	\
	 Peak Flow (PF) = Qp x Q1 Delta = PF - 0.15 x Area (a [0.15 x Area (ac)] 				5.28 crs 5.19 cfs <i>0.10 cfs</i>					a″s ●8″s	8"S_8"S_8	8"S	49°.	/
F	. Vdet = Delta / PF x V100 Required Detention not inc	cluding infiltration credit or pen	nalty.		7,919 cft			₽ E	N.	88*57'42'	"E 66.00) ²	Ř	
	Sediment Forebay Volume				403 cft				0"/4 2	×e				
	etention . Vret = 2 x V100				16,140 cft				\	/	 			\bigvee
11 -	Determine Applicable B	BMPs and Associated Volum	ne Credits					-892-	891		TP-4 889.4	\frac{1}{2}		
	Proposed BMP	Area (sft)	Storage Volume (cft) Surface In Soil	Design Infilt.	Drav	olume in 6-hr wdown (cft)	Total Volume Reduction (cft)	"SHRUB"	8 8					
	Infiltration Bed	2678	Total Volume Red	1.50 uction Credit by F	Proposed Structu	2,009 ural BMPs (cft)	2,009 2,009	"SHRUB"				/ L		
			Runoff Vol	ume Infiltration Re		f) from W9 (cft) ume Credit (cft)		- "					LIMA TWP.	
	Site Summary of Infiltration. Stormwater Managemer							5"TREE				@	11452 JACK	KSON RD.
	Min Infiltration Requiremen Designed/Provided Infiltrati	nt (Vinf) ion Volume			2,475 cft 2,009 cft			32.00				<i>f</i>		
	% Minimum Required Inf Total Calculated Detention	filtration Provided n Volume, Vdet			81 % 7,919 cft			5"TREE						
	Net Required Detention Vo (Vdet - Designed/Provide				5,911 cft			742"\	i\	PR.\	WELL LO	CATION.	X X	Í
В	S. Detention Volume Increa % Required Infiltration NOT	ase for sites where the requ	uired infiltration volume c	annot be achiev	red. 18.8 %			892.1 5"PE 5" VS		/····/)	890		
	(100% - % Minimum Re Net % Penalty (20% x % F	equired Infiltration Provided) Required Infiltration NOT Provi			3.8 %			Ž		_				
		n Volume, including penalt			8,218 cft							891———	/ -	-
								-// // 	F -		15"A			
								,	İ	•		892—		
									UP. ().H.———				/ ·
											/ .			-

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in—service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

Detention	n Outlet Calculcations						
A.	Required Detention Volumes (Reduced b	y 6-hour infiltrati	ion)				
	Storm Event	Req'd Volume	less	Infil. Credit	=	Final Volume	
	First Flush	1,386 cft	-	2,009 cft	=	(623) cft	

Storm Event	Req'd Volume	less	Infil. Credit	=	Final Volur
First Flush	1,386 cft	-	2,009 cft	=	(623) C
Bankfull	2,842 cft	-	2,009 cft	=	834 c
100 -year	7,919 cft	-	2,009 cft	=	5,911 c
100-year + Req'd Penalty	8,218 cft	-	2,009 cft	=	6,209 c
Forebay Volume Required (5% of 100-yr)				=	296 c

tention Volumes Provided

Elevation	Area (sft)	Depth (ft)	Volume (cft)	Cum. Volume (cft)
887.0	2,678	0	0	0
888.0	3,401	1	3,032	3,032
889.0	4,180	1	3,784	6,816
			Total Volume =	6,816

I Infiltration Design

1.50 in/h 334.75 cft/l
1.50 in/h
2678 sft
8,218 cft

× 892.25

× 891.80

EX. WOODS

× 892.75

NARRATIVE AND NOTES

- 1. THE STORMWATER ON SITE WILL BE COLLECTED WITHIN TWO CATCH BASINS ON SITE. THE STORM WATER CONVEYANCE SYSTEM WILL DISCHARGE STORM RUNOFF TO THE PROPOSED INFILTRATION BASIN ON THE NORTH EAST PORTION OF THE SITE. RUNOFF COLLECTED WILL BE INFILTRATED INTO THE SOIL AND DRAW DOWN WITHIN 24.5 HOURS.
- 2. STORMWATER PIPE TO BE REINFORCED CONCRETE PIPE (RCP)
- 3. CATCH BASIN STRUCTURES ARE TO BE 4' DIA. PRECAST CONCRETE
- 4. CB CASTINGS SHALL BE EJIW 1040 W M1 FLAT COVER

N88°57'42"E 264.00'

RIM=891.81 12" NE INV=887.34 12" S INV=887.47

RIM = 892.53

12" N INV=888.00

S88°57'42"W 330.00'

JACKSON ROAD

-RELOCATE UTILITY POLE

- SEDIMENT

12" SW INV=887.00

1.80 ACRES

POTENTIAL DRAINFIELD LOCATION

× 894.28

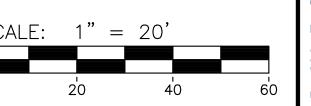
●12"S

× 895.13

× 894.71

- 5. SEPTIC/DRAINFIELD DESIGN TO BE SUBMITTED UNDER A SEPARATE SUBMITTAL TO THÉ WASHTENAW COUNTY ENVIRONMENTAL HEALTH DEPARTMENT.
- 6. ALL NECESSARY PERMITS SHALL BE ACQUIRED THROUGH STATE AND LOCAL AGENCIES FOR THE PROPOSED REPLACEMENT WELL.







LEGEND

----838-

----838-----



838	PROP. CONTOUR
×836.2	EXIST. SPOT ELEVATION
_36.60 _×	PROP. SPOT ELEVATION
-o− U.P.	EXIST. UTILITY POLE
	EXIST. UTILITY POLE W/ TRANS.
କ ୦.୮. ∸ GP	EXIST. GUY POLE
€	GUY WIRE
\bowtie	ELEC. TRANSFORMER
	EXIST. AC UNIT
\boxtimes	EXIST. GENERATOR
——— OH ———	EXIST. OVERHEAD UTILITY LINE
*	EXIST. LIGHT POLE
·	PROP. LIGHT POLE
*	
*	PROP. BUILDING LIGHT
t	EXIST. TELEPHONE LINE
T	PROP. TELEPHONE LINE
e	EXIST. ELECTRIC LINE
———E——	PROP. ELECTRIC LINE
g	EXIST. GAS LINE
————G———	
—— g ——⊠——	
	EXIST. FIBER OPTIC LINE
	PROP. FIBER OPTIC LINE
w	
	PROP. WATER MAIN
ф	EXIST. HYDRANT
→ —	PROP. HYDRANT
i ⊠	
——————	PROP. GATE VALVE IN BOX
<u> </u>	EXIST. GATE VALVE IN WELL
	PROP. GATE VALVE IN WELL
×	
	PROP. CURB STOP & BOX
	REDUCER
0 	EXIST. BLOW-OFF
• 	PROP. BLOW-OFF
⊚ <mark>p.i.v.</mark> ——	POST INDICATOR VALVE
— — P.I.V.	POST INDICATOR VALVE
	THRUST BLOCK
∧ fdc	EXIST. FIRE DEPARTMENT CONNECTION
∠ FDC	PROP. FIRE DEPARTMENT CONNECTION
_ KB	PROP. KNOXBOX
r_ _ _	EXIST. STORM SEWER
——R——	PROP. STORM SEWER
	EXIST. CATCH BASIN OR INLET
	PROP. CATCH BASIN OR INLET
-	
	EXIST. BEEHIVE INLET
•	PROP. BEEHIVE INLET
	PROP. ROOF DRAIN
>	END SECTION
	HEAD WALL
———	CULVERT
•ds	EXIST. DOWNSPOUT
·	
•DS	PROP. DOWNSPOUT
so	EXIST. SANITARY SEWER
S- 	PROP. SANITARY SEWER
	C/L OF DITCH
	SIDEWALK RAMP
	DRAINAGE DIRECTION
$\Rightarrow \Rightarrow$	
4	CONCRETE SURFACE
T	ENCLOSED TRASH AREA
Þ	SIGN
×	
ŔĨŔ	RAILROAD CROSSING SIGN
△ pm	EXIST. PARKING METER
ΔPM	PROP. PARKING METER
MAIL	MAILBOX
@	
	WELL
	
	FENCE
 	FENCE GUARDRAIL
00000	FENCE
	FENCE GUARDRAIL SINGLE TREE
	FENCE GUARDRAIL
	FENCE GUARDRAIL SINGLE TREE

SECTION CORNER

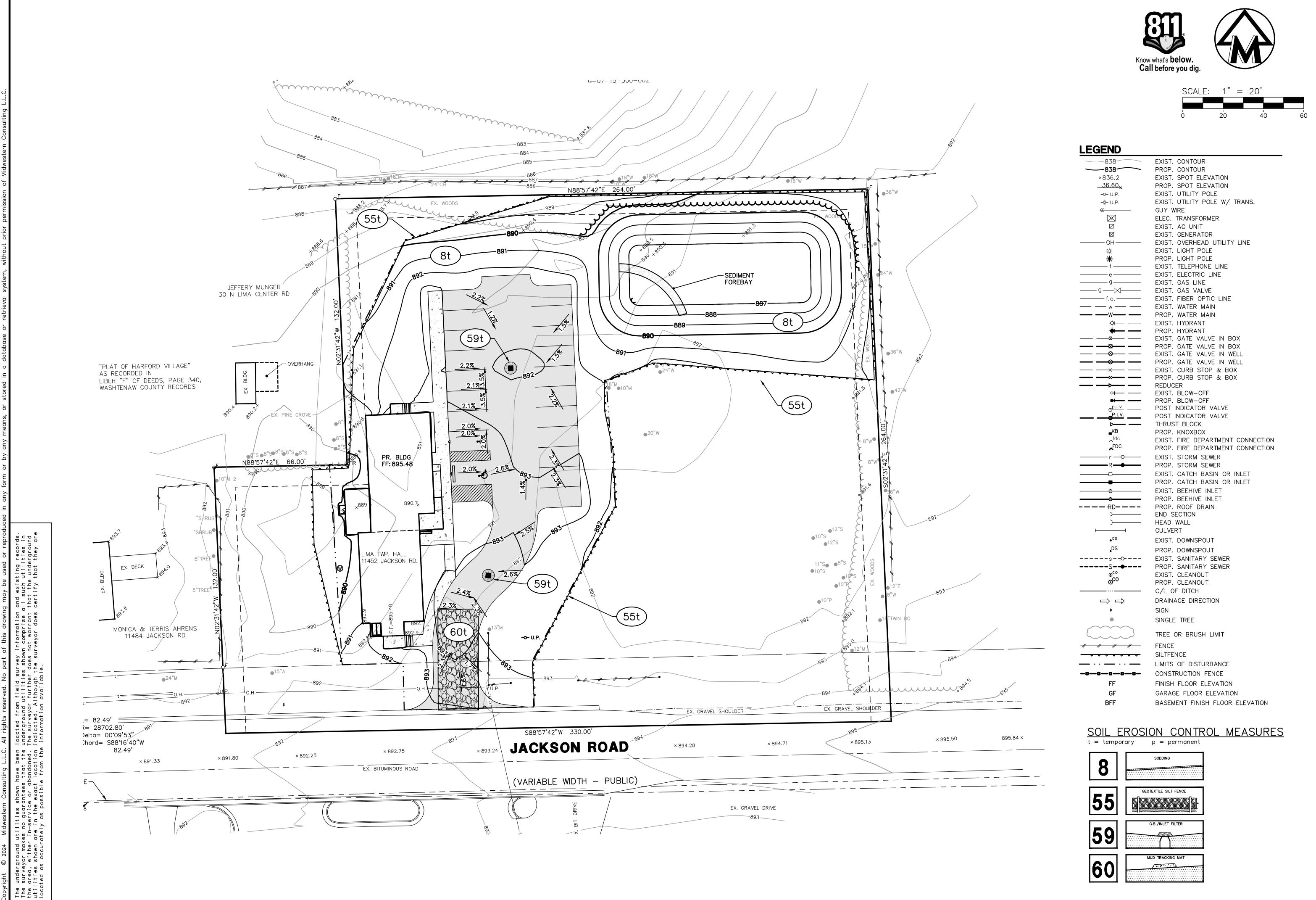
EXIST. SOIL BORING LOCATION

EXIST. TEST PIT LOCATION

Call before you dig. EXIST. CONTOUR PROP. CONTOUR EXIST. SPOT ELEVATION

NSIO 4 XP THE REPORT OF FRELIMINARY SITE POTILITY PLAN

	DAIE: U3-U4-24
[SHEET 04 OF 07
čev. DAIE 1D	CADD: CAD_INITIALS
2D	ENG: AJL
3D	PM: AJL
4D	TECH: TECH_INITIALS
2D	/17192SW1
2	וויט וויט וויט



NSIO \triangleleft XP Ш

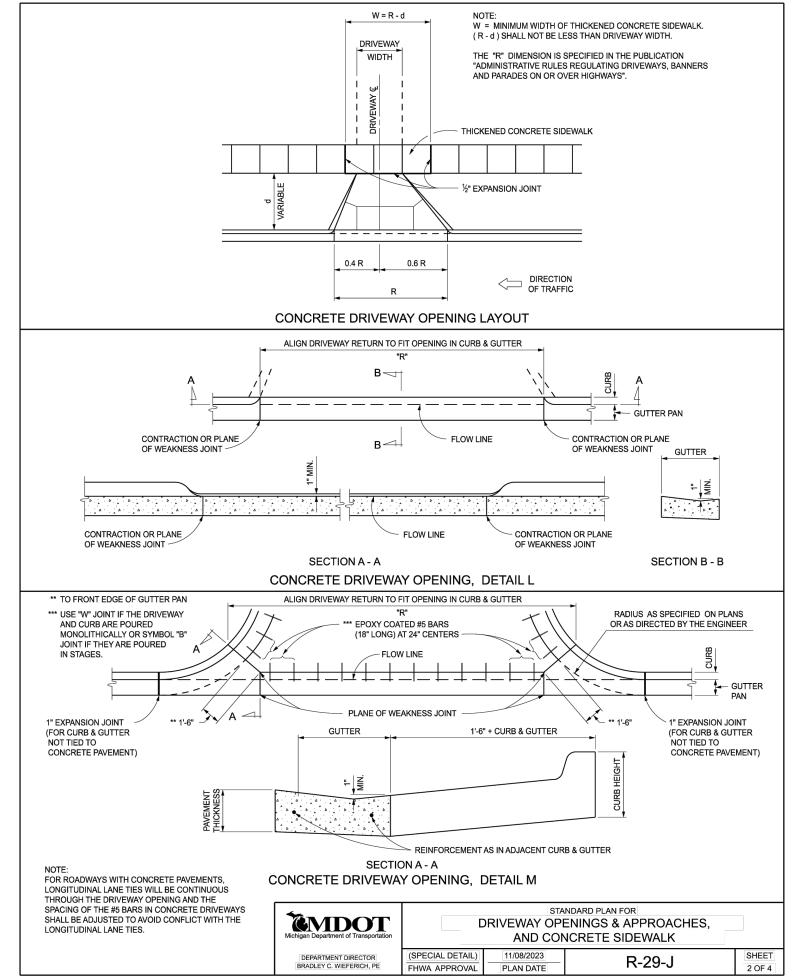
HALL

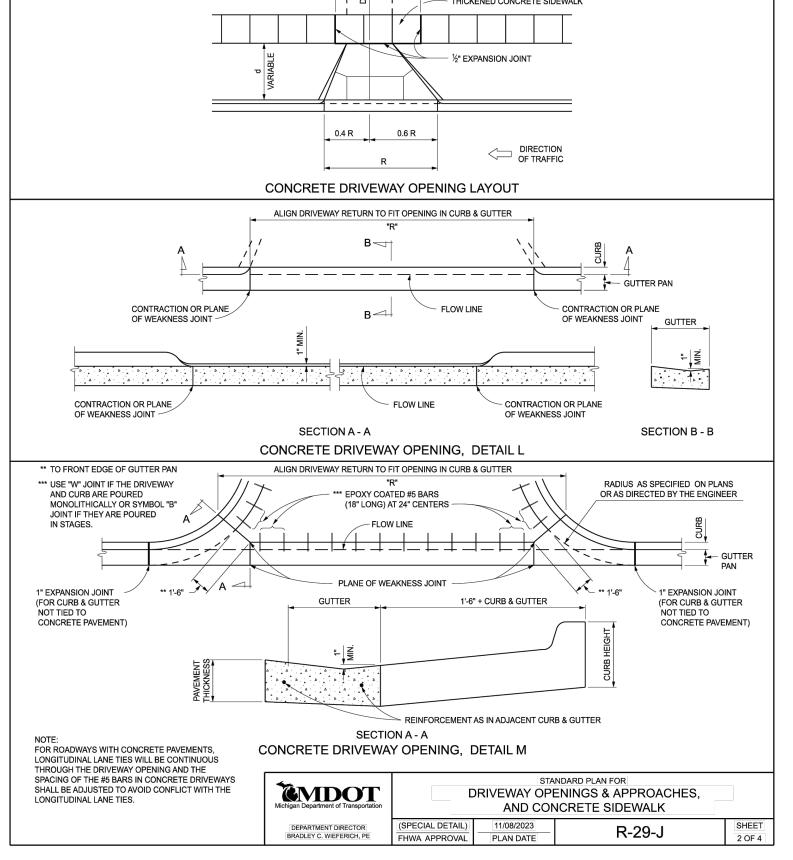
Y SITE F

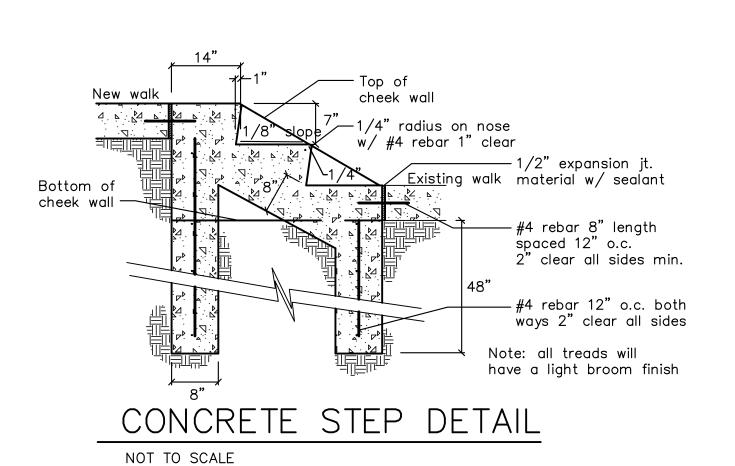
NG PLAN OWNSHIP
PRELIMINAR
GRADIN



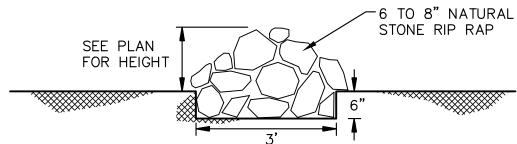
TYPICAL INTEGRAL WALK & CURB NOT TO SCALE



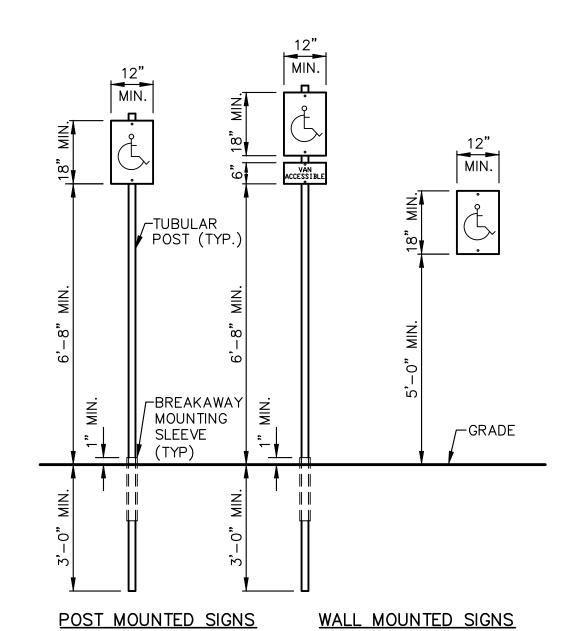




The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

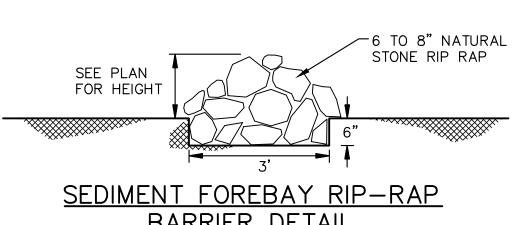


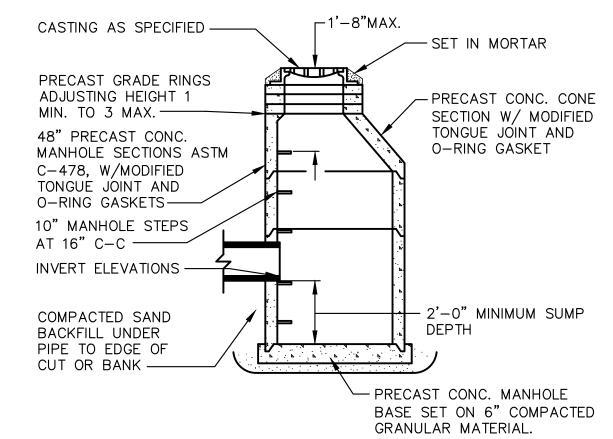
BARRIER DETAIL NOT TO SCALE



TYPICAL HANDICAP PARKING SIGNS

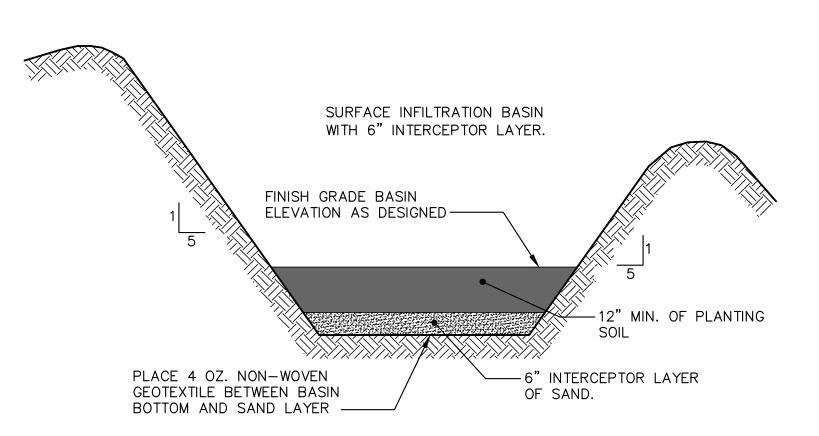
SCALE: 1/2" = 1'-0"









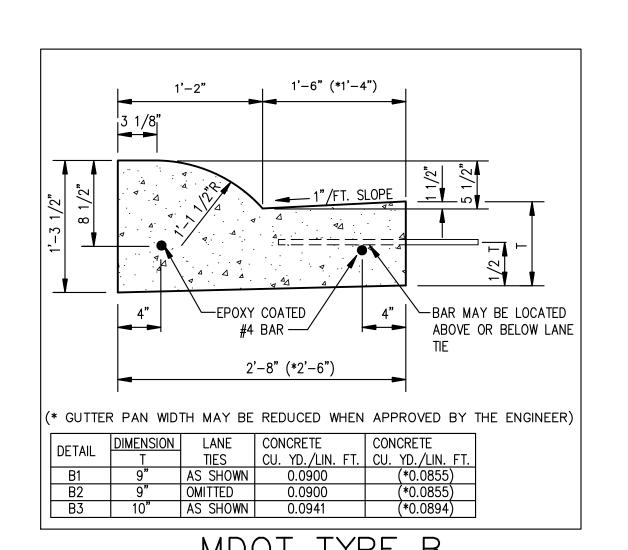


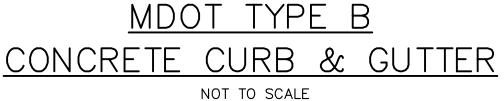
NOTES:

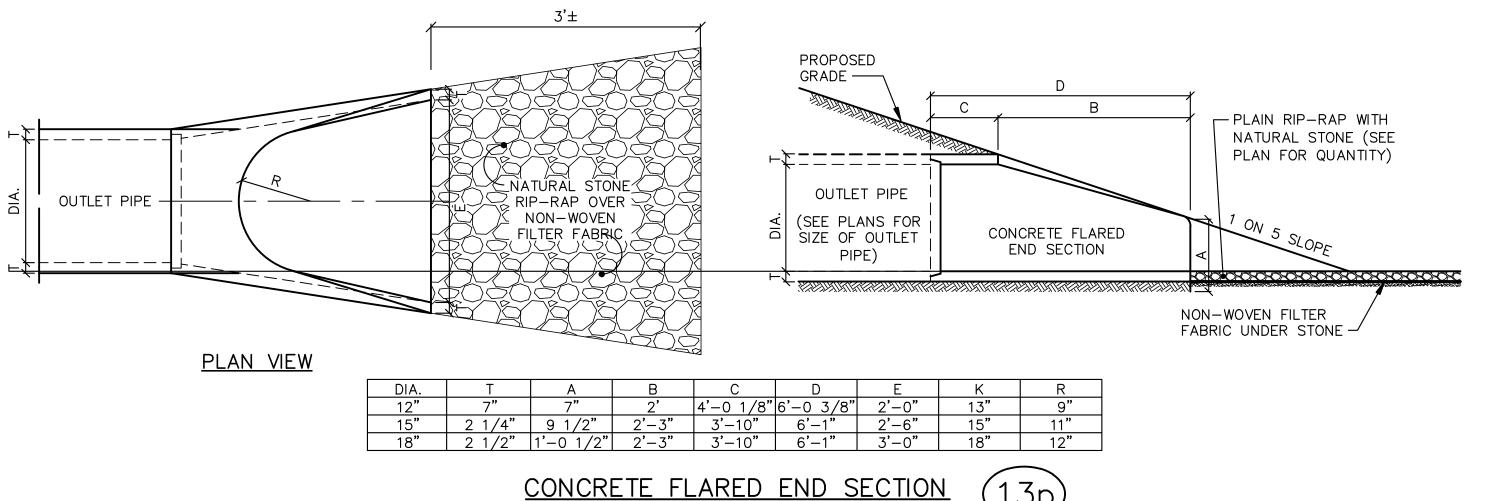
1. THE SAND LAYER AND GEOTEXTILE SHALL NOT BE PLACED IN THE BOTTOM OF THE INFILTRATION BASIN UNTIL ONSITE SOIL STABILIZATION IS IMMINENT TO PREVENT THE SILTING OF THE SAND LAYER DURING THE CONSTRUCTION PERIOD.

2. THE BOTTOM OF THE POND SHALL BE EXCAVATED TO A POINT 6 INCHES HIGHER THAN THE SUB BASE GRADE AND SHALL REMAIN AT THAT ELEVATION UNTIL ONSITE SOIL STABILIZATION IS IMMINENT AND THE SAND LAYER IS PLANNED TO BE INSTALLED. AT THAT TIME THE FINAL 6 INCHES OF MATERIAL SHALL BE REMOVED, ALONG WITH ANY SILTS THAT HAVE ACCUMULATED, LEAVING A CLEAN, SANDY BOTTOM. THE ENGINEER SHALL BE CONTACTED FOR INSPECTION PRIOR TO GEOTEXTILE AND SAND LAYER PLACEMENT.

INFILTRATION BASIN WITH INTERCEPTOR LAYER CROSS SECTION

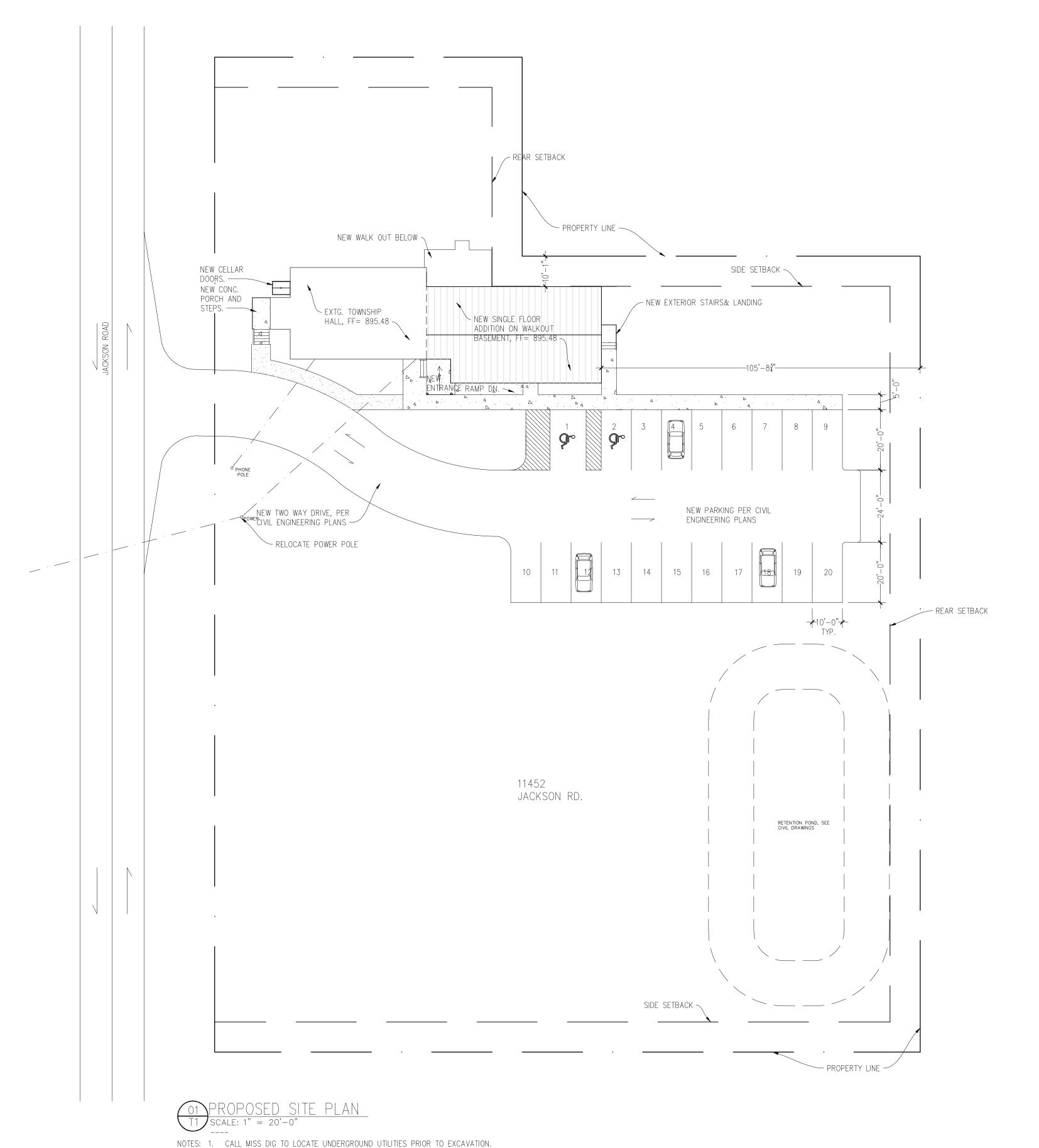




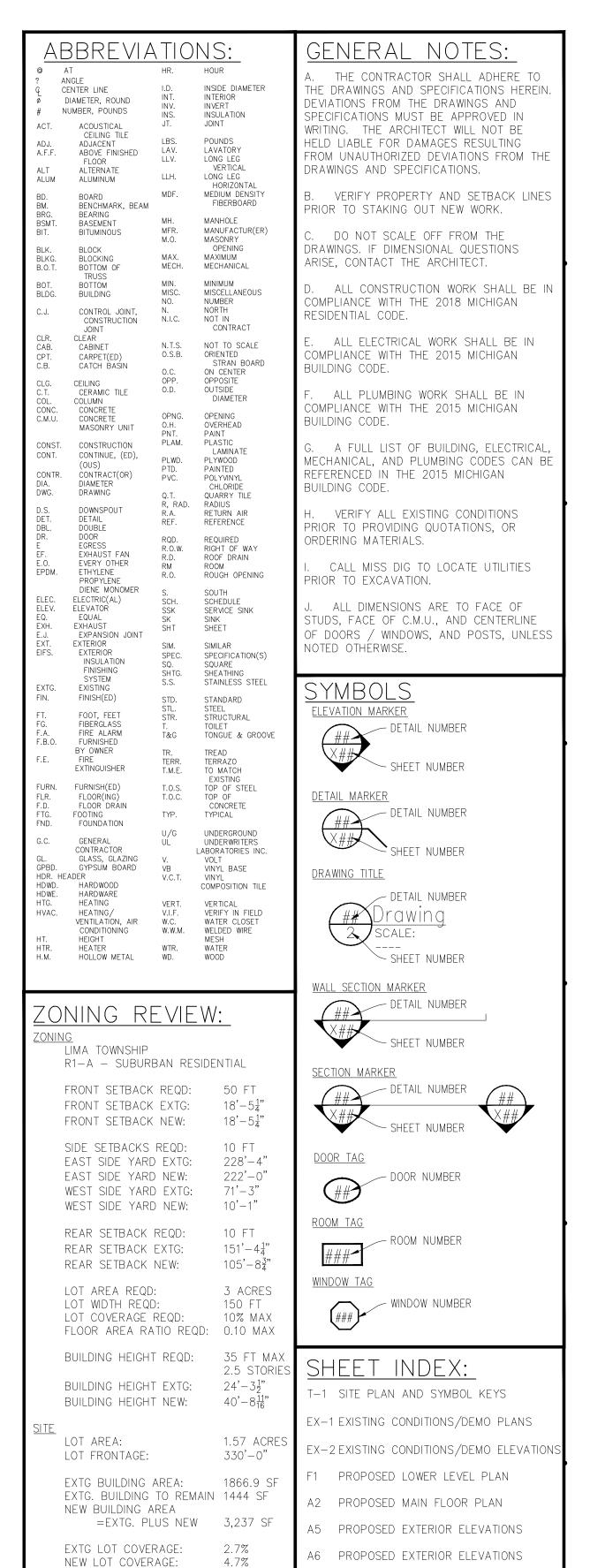


SIO

4 Q Ш HAL OWNSHIP
PRELIMINAR
SITE

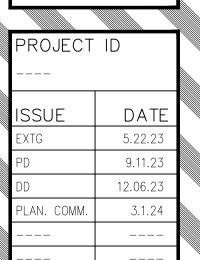


2. VERIFY WITH COUNTY IF SOIL EROSION CONTROL MEASURES ARE REQUIRED. IF REQUIRED, SEE 02/T1.



NEW FLOOR AREA: 1793 SF NEW LOWER LEVEL AREA: 1793 SF NEW ADDITION HEIGHT: 18'-9"



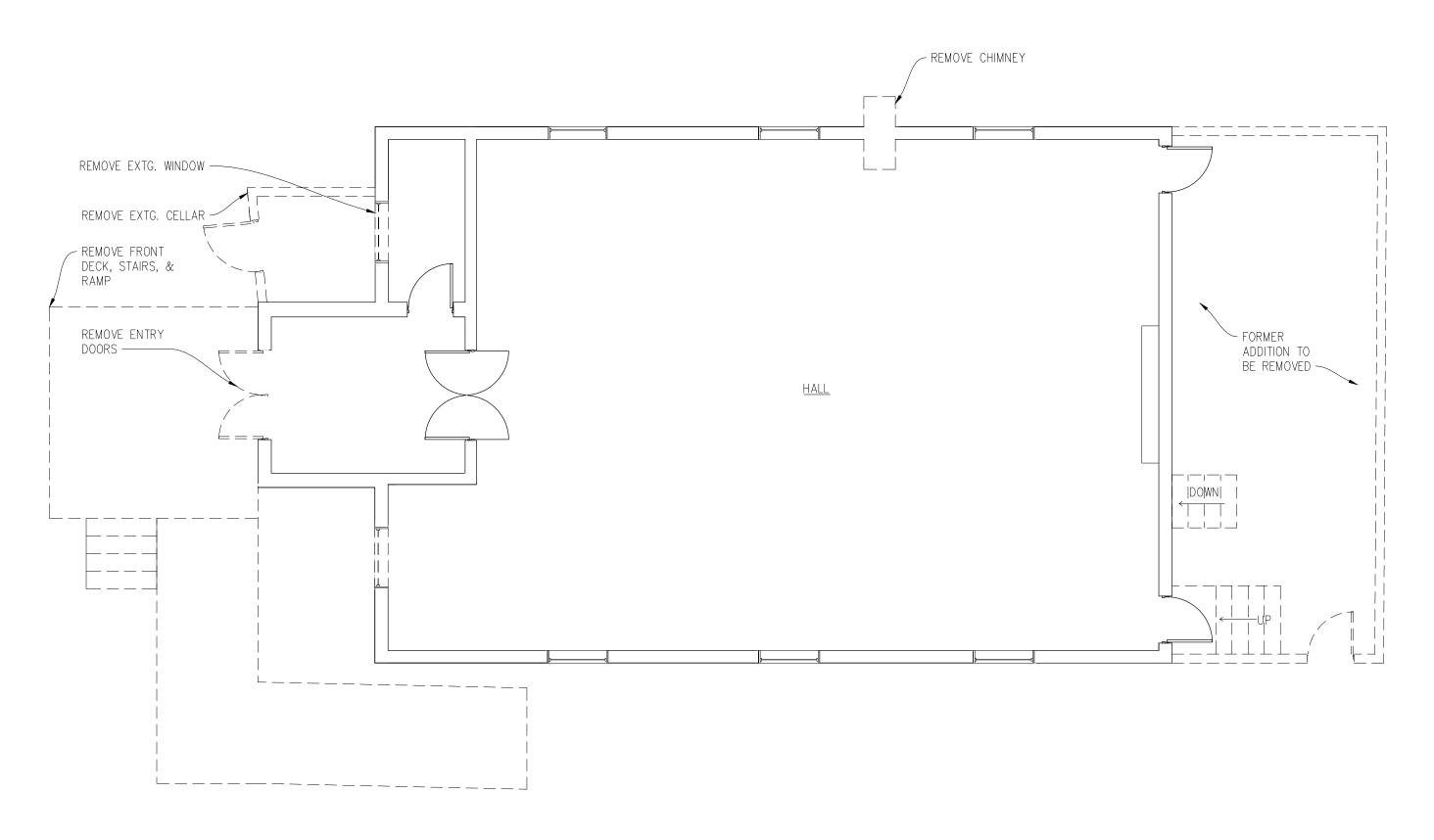


Ct

ite |

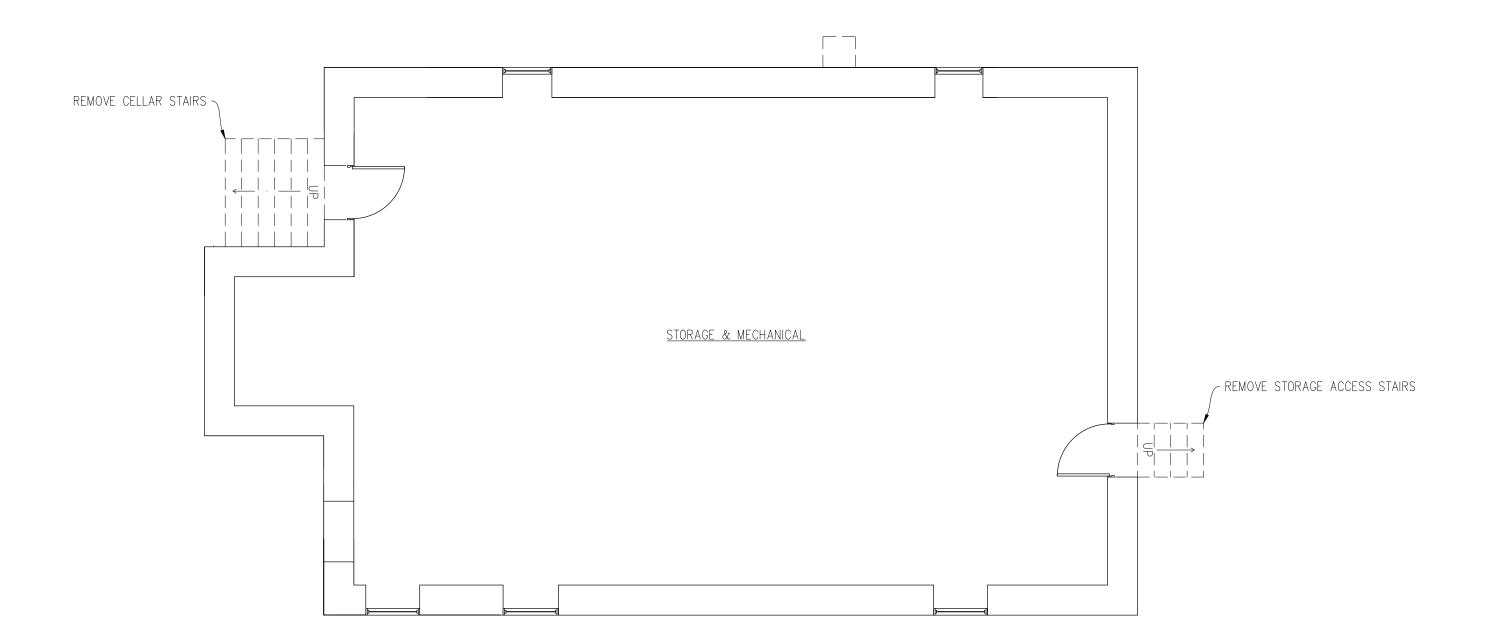
> ANGE 14 Sou nelsea,

SHEET NUMBER



EXISTING CONDITIONS/DEMOLITION MAIN FLOOR PLAN

NOTES: 1. CALL MISS DIG PRIOR TO EXCAVATION WORK. PROVIDE DUMPSTERS AND HAUL AWAY DEBRIS ON REGULAR BASIS.
2. ADEQUATELY SHORE UP EXISTING CONSTRUCTION PRIOR TO DEMOLITION WORK.
3. TAKE CARE NOT TO DAMAGE ANY EXISTING CONSTRUCTION TO REMAIN.

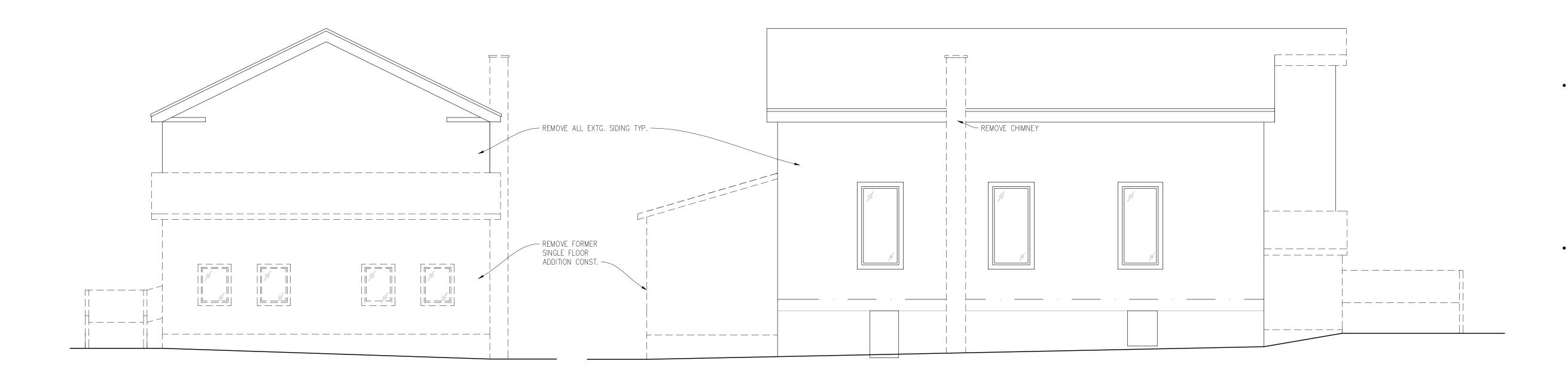


O1 EXISTING CONDITIONS/DEMOLITION LOWER LEVEL PLAN EX1 scale: 3/16" = 1'-0"

ZONING: LIMA TOWNSHIP			
	2015 MICH 2015 MICH	IIGAN REHABILITATION CODE IIGAN BUILDING CODE IIGAN PLUMBING CODE STANDARDS	
<u>ISSUE</u>	<u>ref</u>	DATA/COMMENTS	
USE AND OCCUPANCY CLASSIFICATION			CHAPTER 3
CLASSIFICATION	303.4	GROUP A3 - ASSEMBLY	
GENERAL BUILDING HEIGHT & AREAS CONSTRUCTION TYPE VB EXISTING AND	DRADASEN		CHAPTER 5
FIRE SUPPRESSION = NONE EXISTING AREA:			
MAIN FLOOR - 1,867 SF E LOWER LEVEL - 1,444 SF E		23 SF DEMOLISHED, 1805 SF NEW 805 SF NEW, =3,249 SF TOTAL	, =3,249 SF TOTAL
GENERAL LIMITS ALLOWABLE LIMITS	503.1 T504.3	HEIGHT: 65 FT	
	T504.4 T506.2	STORIES: 3 AREA: 6,000 SF FURNACE ROOM	
INCIDENTAL USE	T509	FURNACE ROOM	1 HR OR SPRINKLER
TYPES OF CONSTRUCTION FIRE RATING OF BUILDING	T601	PRIMARY STRUCTURAL FRAME	CHAPTER 6 OHR.
FIRE RATING OF BUILDING	1001	BEARING WALLS: EXTERIOR	OHR.
		INTERIOR NON-BEARING WALLS:	OHR.
		EXTERIOR INTERIOR	OHR. OHR.
		FLOOR/CEILING CONSTRUCTION ROOF CONSTRUCTION	1HR. OHR.
FIRE PROTECTION SYSTEMS			CHAPTER 9
AUTOMATIC SPRINKLER SYSTEMS	902.2.1.3	AN AUTOMATIC SPRINKLER SYSTIFIRE AREAS CONTAINING GROUP INTERVENING FLOORS OF THE BUTOLLOWING CONDITIONS EXIST: - OVER 12,000 SF - OCCUPANT LOAD OF 300 OR M - THE FIRE AREA IS LOCATED ON LEVEL OF EXIT DISCHARGE SER	A3 OCCUPANCIES AND JILDING WHERE ONE OF TH TORE N A FLOOR OTHER THAN A
FIRE EXTINGUISHERS	906.3	IN GROUP A OCCUPANCIES: TYP MOUNT TOP AT MAX. 60" ABOVE MAXIMUM DISTANCE OF TRAVEL	FINISHED FLOOR
FIRE ALARMS	907.2.1	A MANUAL FIRE ALARM SYSTEM OCCUPANT NOTIFICATION SYSTEM GROUP E OCCUPANCIES WHERE OR MORE.	SHALL BE INSTALLED IN
MEANS OF EGRESS			CHAPTER 10
FLOOR AREA/OCCUPANT LOAD	T1004.1.2	15 NET SF PER OCCUPANT 1,637 SF/15 SF NET/PERSON ASM MAXIMUM OCCUPANT LOAD BASE EXITS IS 109.	
WATER CLOSET REQUIRED	T403.1	MEN: 1 PER 125 WOMEN: 1 PER 65	= 1 REQUIRED 1 PROVIDED = 1 REQUIRED 1 PROVIDED
LAVATORY OCCUPANT LOAD	T403.1	MEN :1 PER 200 WOMEN: 1 PER 200	1 PROVIDED
ADA TOILET REQUIREMENTS:		1 PER GENDER TOILET ROOM	= 1 REQUIRED
		1 REQUIRED FOR INFANTS	1 PROVIDED
			1 PROVIDED
NUMBER OF EXITS	1006.2	TWO EXITS OR EXIT ACCESS DOOS SHALL BE PROVIDED WHERE THE THE COMMON PATH OF EGRESS THE VALUES LISTED IN TABLE 10 OR <75' MAX TRAVEL DISTANCE MORE THAN TWO EXITS PROVIDE ONE EXIT AT LOWER LEVEL AS LAND LESS THAN 75' TRAVEL DISTANCE	DESIGN OCCUPANT LOAD TRAVEL DISTANCE EXCEED 006.2.1. — <49 OCCUPANT TO EXIT D AT MAIN FLOOR LESS THAN 49 OCCUPANTS
ACCESSIBLE MEANS OF EGRESS	1009	MIN. 2 ACCESSIBLE MEANS OF E	GRESS REQUIRED
DOORS	1010.1.1	MIN. 34" WIDE EXIT (36" WIDE F	OR ADA)
RAMPS	1012	MAX. SLOPE = 1:12, MAX. RISE	30" BETWEEN LANDINGS
TRAVEL DISTANCE		200 FT. MAX WITH NO SPRINKLE	
CORRIDORS		AT GROUP A OCCUPANCIES GRE. 1 HOUR FIRE RATING REQUIRED. THAN 30 PEOPLE = 0 FIRE RAT	AT BUSINESS SIDE LESS ING REQUIRED
	100001	NOT LESS THAN 1 FOOTCANDLE	AT WALKING SURFACE
REQUIRED EGRESS ILLUMINATION EMERGENCY POWER FOR ILLUMINATION			

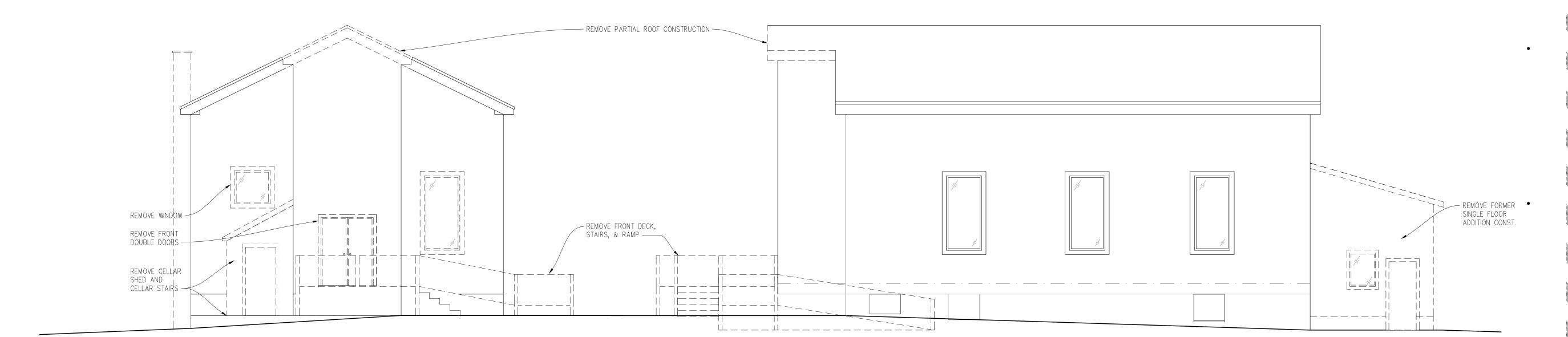
O3 EXISTING CONDITIONS/DEMOLITION NORTH ELEVATION EX2 scale: 3/16" = 1'-0"

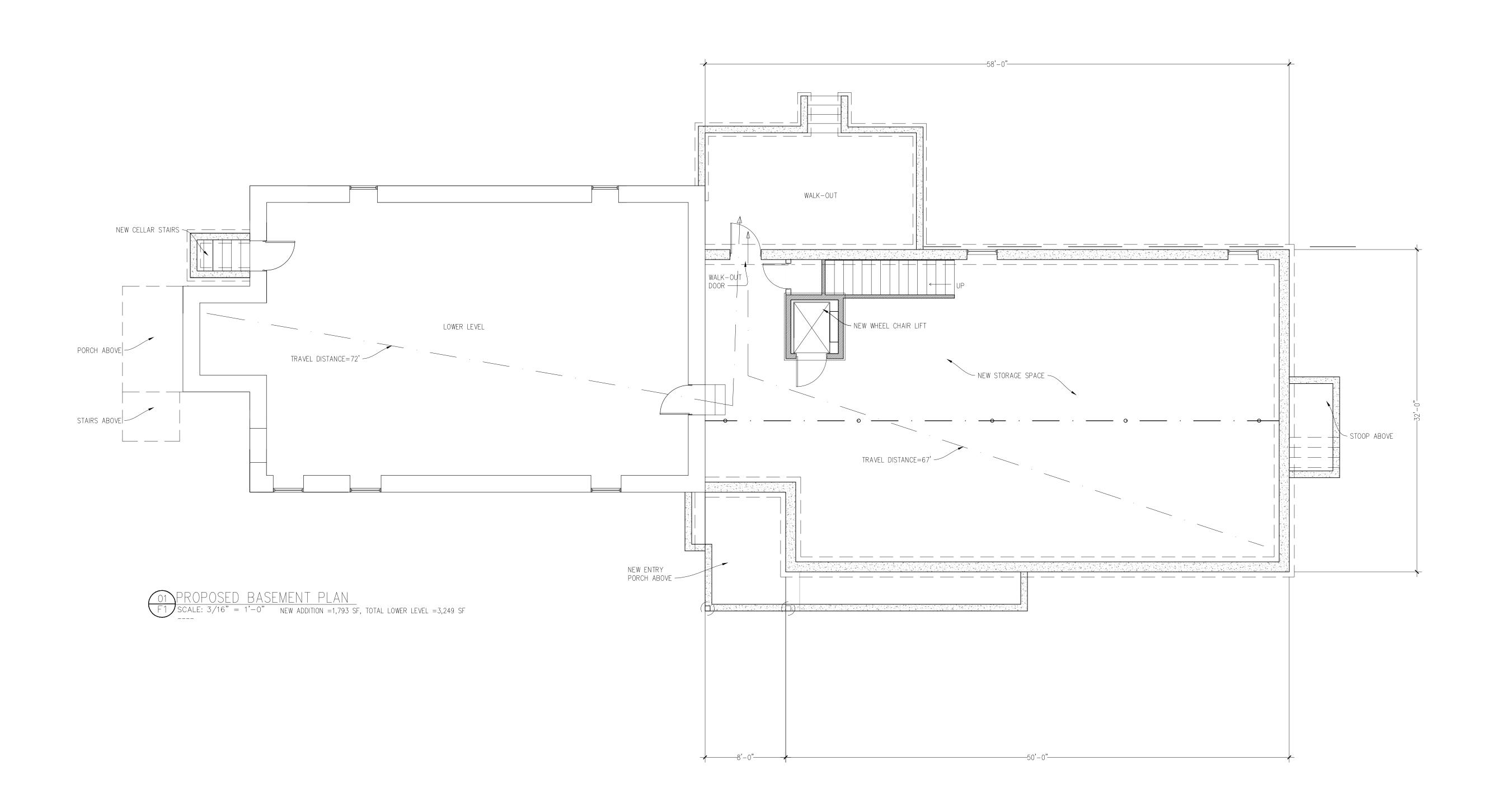
04 EXISTING CONDITIONS/DEMOLITION WEST ELEVATION EX2 scale: 3/16" = 1'-0"











DANGEROUS Architects, Pc 104 South Main Street Chelsea, Ml. 48118 734.475.3660 www.Dangerous Architects &c

CONSULTANT
OMCI
ANN ARBOR

PROJECT
NEW ADDITION & RENOVALIMA TOWNSHIP HALL

PROJECT ID

ISSUE DATE

EXTG 5.22.23

PD 9.11.23

DD 12.06.23

EXTG 5.22.23

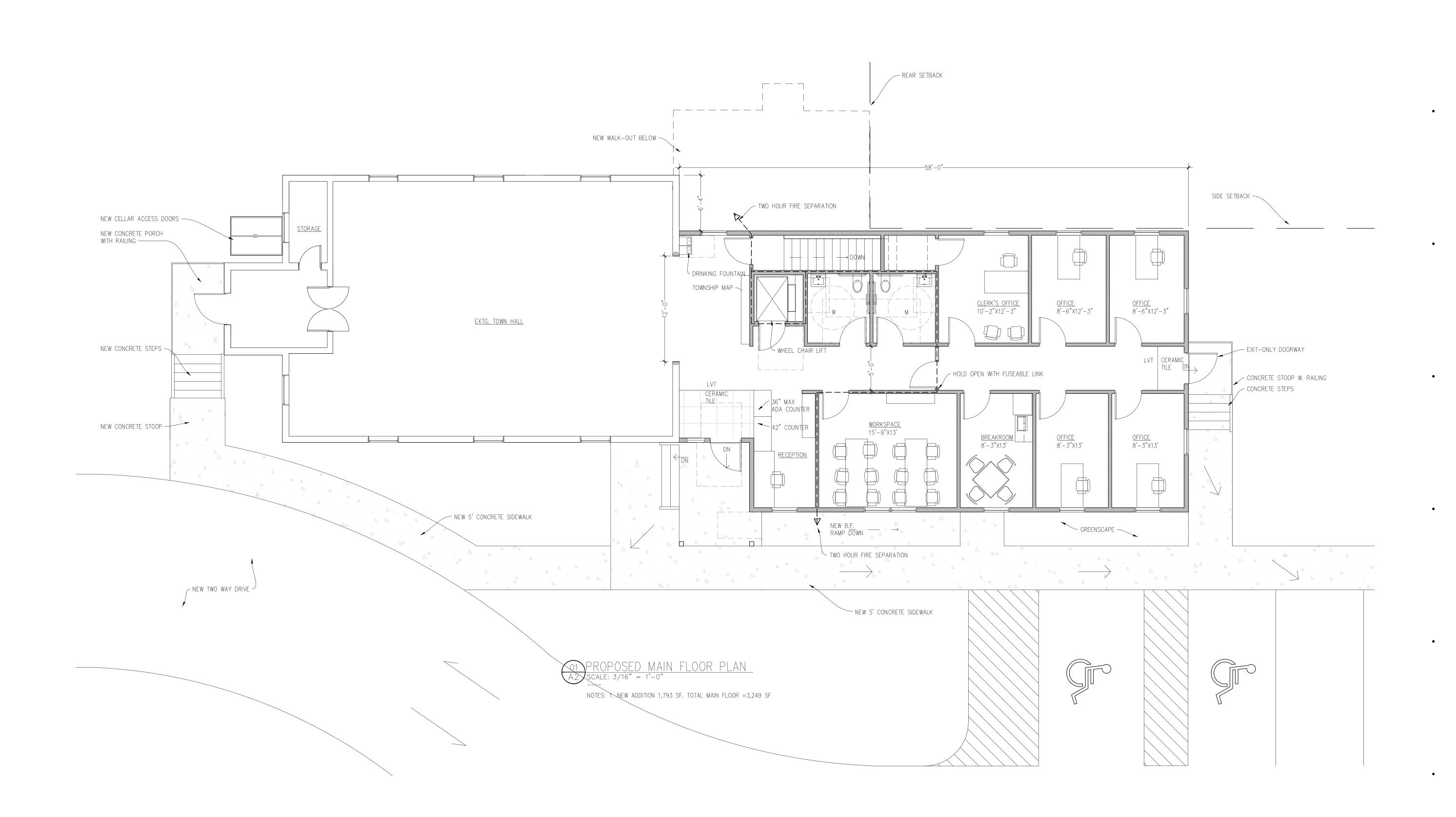
PD 9.11.23

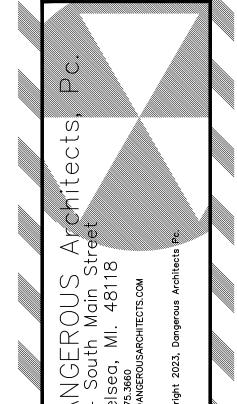
DD 12.06.23

PLAN. COMM. 3.1.24

---- ---
---- ----

SHEET NUMBER



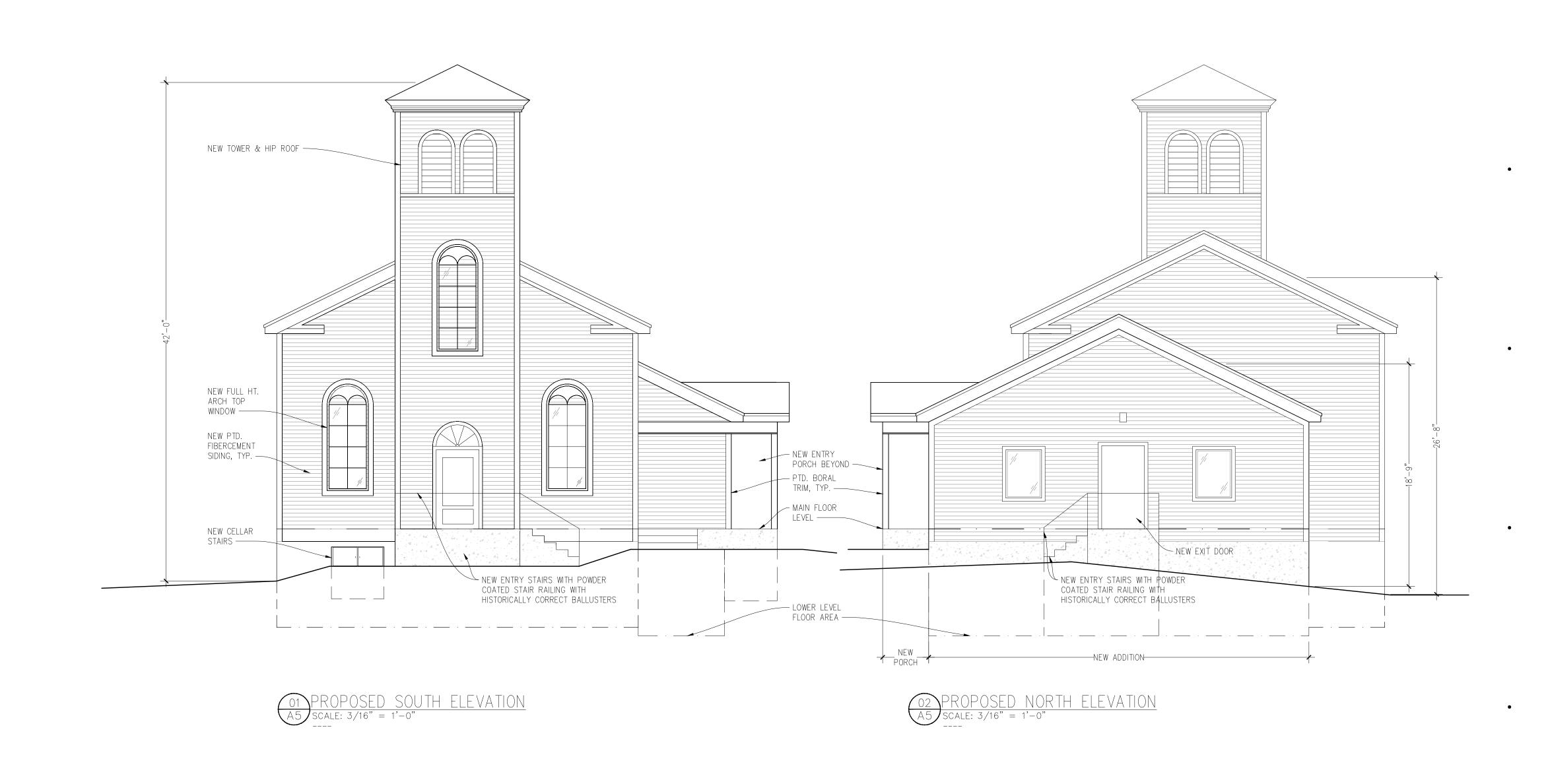


	A R	PROJECT					CONSULTANT	LTANT	
		7 MJ/	ADDITION & RENOVATION		Z U Y	OVAT			
		\leq	TOWNSHIP HALL				ANN ARBOR	RBOR	
			ı				 		
	######################################	1452 JA	ACKSON RD	Z.					
	_								

	N
L	

PROJECT	ID
ISSUE	DATE
EXTG	5.22.23
PD	9.11.23
DD	12.06.23
PLAN. COMM.	3.1.24

SHEET NUMBER



DANGEROUS Architects, Pc 104 South Main Street Chelsea, Ml. 48118 734.475.3860 www.Dangerous Architects Pc

PROJECT

NEW ADDITION & RENOVATIO MC

LIMA TOWNSHIP HALL

11452 Jackson RD.

PROJECT ID

ISSUE DATE

EXTG 5.22.23

PD 9.11.23

DD 12.06.23

PLAN. COMM. 3.1.24

SHEET NUMBER

 $A \subseteq$

