



# City of West Allis

## Meeting Agenda

### Plan Commission

7525 W. Greenfield Ave.  
West Allis, WI 53214

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Wednesday, June 24, 2026

6:00 PM

City Hall, Room 128  
7525 W. Greenfield Ave.

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#### REGULAR MEETING

#### A. CALL TO ORDER

#### B. ROLL CALL

#### C. APPROVAL OF MINUTES

1. [26-0306](#) June 3, 2026 (draft minutes)

**Attachments:** [June 3, 2026 \(draft minutes\)](#)

#### D. NEW AND PREVIOUS MATTERS

2. [26-0301](#) Site, Landscaping, and Architectural Design Review for Storage Five West Allis, a proposed Light Industrial use, at 7840 W. Hicks St. (Tax Key No. 477-0142-000)

**Attachments:** [2 \(SLA\) Storage 5 - 7840 W Hicks St.](#)

- 3A. [26-0302](#) Conditional Use Permit for Living Hope Lutheran Church, a proposed Religious Institution use, at 1337 S. 100 St.

- 3B. [26-0303](#) Site, Landscaping, and Architectural Design Review for Living Hope Lutheran Church, a proposed Religious Institution use, at 1337 S. 100 St. (Tax Key No. 444-0534-002).

**Attachments:** [3 \(CUP & SLA\)- LHL Church - 1337 S 100 St.](#)

4. [26-0304](#) Site, Landscaping, and Architectural Design Review for Kwik Trip an existing Fuel Service Use at 10923 W. Lapham St. (Tax Key: 448-9979-014).

**Attachments:** [4 \(SLA\) Kwik Trip - 10923 W. Lapham St.](#)

5. [26-0305](#) Project Tracking.

#### E. ADJOURNMENT



All meetings of the Plan Commission are public meetings. In order for the general public to make comments at the committee meetings, the individual(s) must be scheduled (as an appearance) with the chair of the committee or the appropriate staff contact; otherwise, the meeting of the committee is a working session for the committee itself, and discussion by those in attendance is limited to committee members, the mayor, other alderpersons, staff and others that may be a party to the matter being discussed.

**NOTICE OF POSSIBLE QUORUM**

It is possible that members of, and possibly a quorum of, members of other governmental bodies of the municipality may be in attendance at the above-stated meeting to gather information. No action will be taken by any governmental body at the above-stated meeting other than the governmental body specifically referred to above in this notice.

**NON-DISCRIMINATION STATEMENT**

The City of West Allis does not discriminate against individuals on the basis of race, color, religion, age, marital or veterans' status, sex, national origin, disability or any other legally protected status in the admission or access to, or treatment or employment in, its services, programs or activities.

**AMERICANS WITH DISABILITIES ACT NOTICE**

Upon reasonable notice the City will furnish appropriate auxiliary aids and services when necessary to afford individuals with disabilities an equal opportunity to participate in and to enjoy the benefits of a service, program or activity provided by the City.

**LIMITED ENGLISH PROFICIENCY STATEMENT**

It is the policy of the City of West Allis to provide language access services to populations of persons with Limited English Proficiency (LEP) who are eligible to be served or likely to be directly affected by our programs. Such services will be focused on providing meaningful access to our programs, services and/or benefits.

# Meeting Minutes

## Plan Commission

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Wednesday, June 3, 2026

6:00 PM

City Hall, Room 128  
7525 W. Greenfield Ave.

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### REGULAR MEETING (draft minutes)

#### A. CALL TO ORDER

*The meeting was called to order at 6:02 p.m.*

#### B. ROLL CALL

- Present** 7 - Wayne Clark, Brian Frank, Dan Devine, Brandon Reinke, David Raschka, Kathleen Dagenhardt, Eric Torkelson  
**Excused** 2 - Jessica Katzenmeyer, Lisa Coons

#### Staff

Steve Schaer, Director of Planning & Zoning  
Jack Kovnesky, Planner  
Emily Wagner, Planner

#### Others Attending

Lisa Sullivan, Milwaukee County Supporting Small Businesses  
Renae ReneAdan, Paleteria Yayo

#### C. APPROVAL OF MINUTES

1. [26-0226](#) April 22, 2026 (draft minutes)

**Attachments:** [April 22, 2026 \(draft minutes\)](#)

Clark moved to approve this matter, Torkelson seconded, motion carried.

#### D. NEW AND PREVIOUS MATTERS

- 2a. [26-0266](#) Conditional Use Permit for Paleteria Yayo, a proposed Food Production Use, at 5900 W. Burnham St.

**Attachments:** [2 CUP-SLA Paleteria Yayo](#)

*Items 2A & 2B were taken together.*

Clark moved to approve this matter, Frank seconded, motion carried.

- 2b. [26-0267](#) Site, Landscaping, and Architectural Design Review for Paleteria Yayo, a proposed Food Production use, at 5900 W. Burnham St. (Tax Key No. 455-0066-000)

**Attachments:** [2 CUP-SLA Paleteria Yayo](#)

*Items 2A & 2B were taken together.*

*Jack Kovnesky presented, outlining possible outdoor dining, along with a possible mural on the east side of the building. This property has been vacant for decades.*

*Recommendation: Common Council approval of the conditional use and approval of the Site, Landscaping, and Architectural Design Review for Paleteria Yayo, a proposed Food Production Use, at 5900 W. Burnham St. (Tax Key No. 455-0066-000) subject to the following conditions:*

*Items 1-3 below to be satisfied before starting work:*

*Common Council approval of the Conditional Use Permit (Scheduled for June 16, 2026)*

*Any work done within the City Right of Way will require a Permit from Engineering. Additionally, any contractors will need to be licensed and bonded in the City. Contact Engineering Dept/Greg Bartelme at [gbartelme@westalliswi.gov](mailto:gbartelme@westalliswi.gov) with questions.*

*Signage and lighting plans to be submitted for design review and permitting. Contact Planning and Zoning [planning@westalliswi.gov](mailto:planning@westalliswi.gov) with any questions.*

**Clark moved to approve this matter, Frank seconded, motion carried.**

**3. [26-0268](#)**

Project Tracking

*Jack Kovnesky presented.*

**This matter was Discussed.**

**E. ADJOURNMENT**

*There being no other business, a motion was made by Clark, seconded by Reinke to adjourn at 6:15 p.m.*

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**STAFF REPORT  
WEST ALLIS PLAN COMMISSION  
Wednesday,  
June 24, 2026 Room 128, 6:00 PM**

**2. Site, Landscaping, and Architectural Design Review for Storage Five West Allis, a proposed Light Industrial use, at 7840 W. Hicks St. (Tax Key No. 477-0142-000)**

**Overview and Zoning**

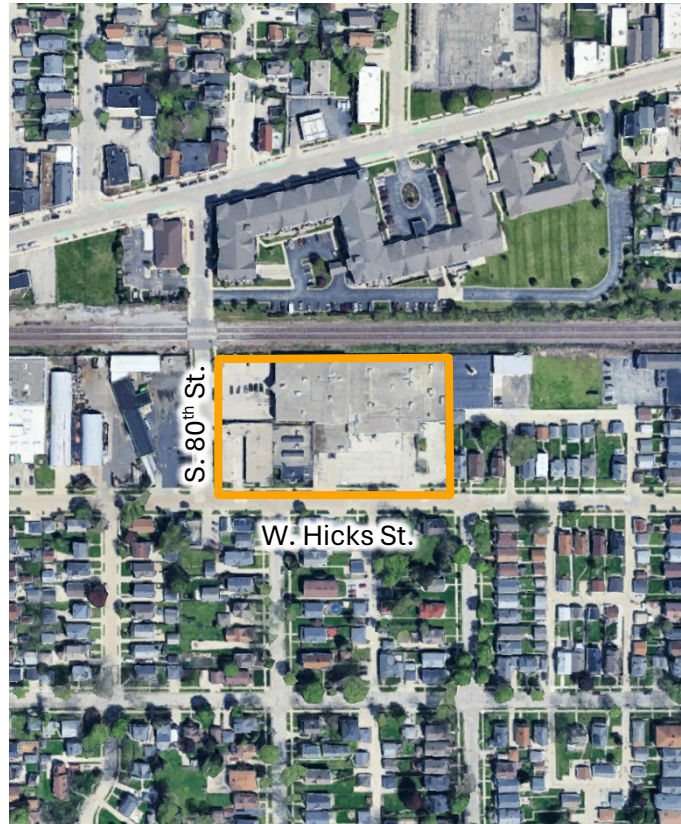
Storage Five is proposing a new multi-story, 133,532 sq. ft. climate controlled self-storage business. The proposed business will renovate and expand an existing industrial building to accommodate the new self-storage facility.

The timeline for completion of the work is expected to take 12-18 months from the issuance of building permits.

**Hours of Operation:**

- Office: 9:30 a.m. – 6:00 p.m.
- Customer Access: 6:00 a.m. – 10:00 p.m.
- 24/7 Access is available but requires management approval

7840 W. Hicks St. is zoned I-1. In the I-1 zoning district, self-storage is considered a Light Industrial use which is Limited in the I-1 District. Limited Use Criteria permits self-storage if the lot is at least 2 acres and at least 20% of the lot is landscaped.



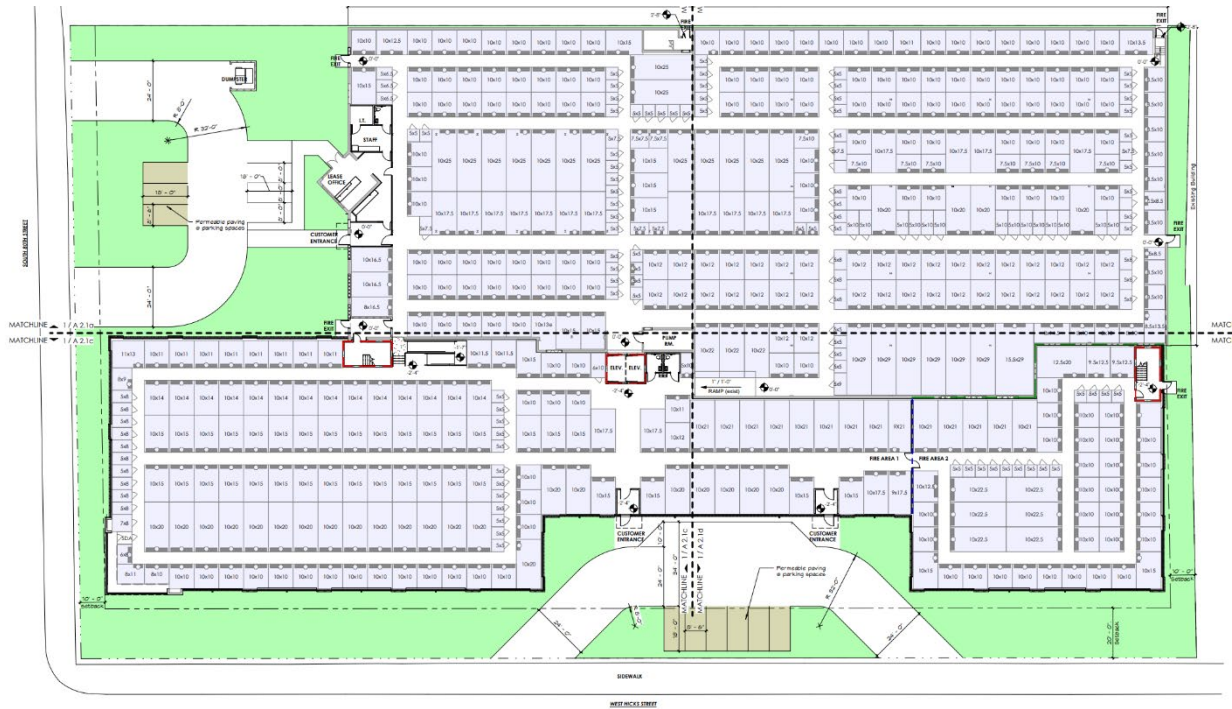
## **Site & Landscaping Plan**

The proposal includes a plan to completely renovate and repurpose the existing industrial building on-site. The existing building has been expanded multiple times. The portion of the building to be repurposed is located on the northern portion of the lot. The new 2-story addition is to be located to the south of these existing areas. The proposed front setback of the addition is 26.3 ft and the side setback is 10 ft. Both setbacks meet the minimum setbacks required for the I-1 district. The maximum floor area ratio (FAR) for the building in the I-1 district is 1.5. The proposed FAR for this project is below that maximum at 1.17 FAR.

Site access is given off of both Hicks St and 80<sup>th</sup> St through a total of 4 driveways leading into two semi-circular drives. These semi-circular drives lead different entrances for the storage facility. Connected to these drives are parking areas. The total parking on site is 11 stalls, well below the maximum allowed. No bicycle racks were shown on the proposed plans. Per the gross square footage of the building, 10 bike racks are required. It is recommended that the bicycle racks are separated between the west and south entrances of the proposed facility.

Per Zoning Code regulations, a minimum of 20% of the lot is required to be landscaped/permeable for the Light Industrial use to be permitted. The project area is 114,426 sq. ft., which requires approximately 22,452 sq. ft. of landscaped/permeable area. The plans show the existing pervious area increasing from 7,900 sq. ft. to 22,452 sq. ft. through a combination of landscaping and permeable paving. This results in no net increase in total impervious area and satisfies the 20% minimum requirement.

The landscaping shown on the site primarily functions to aesthetically soften the building. A variety of bushes and shrubs line the perimeter of the public facing portions of the building. Additionally, the two permeable parking areas near the semi-circular driveways both are screened with shrubs and trees. The refuse area on site is also screened with trees in addition to fencing.



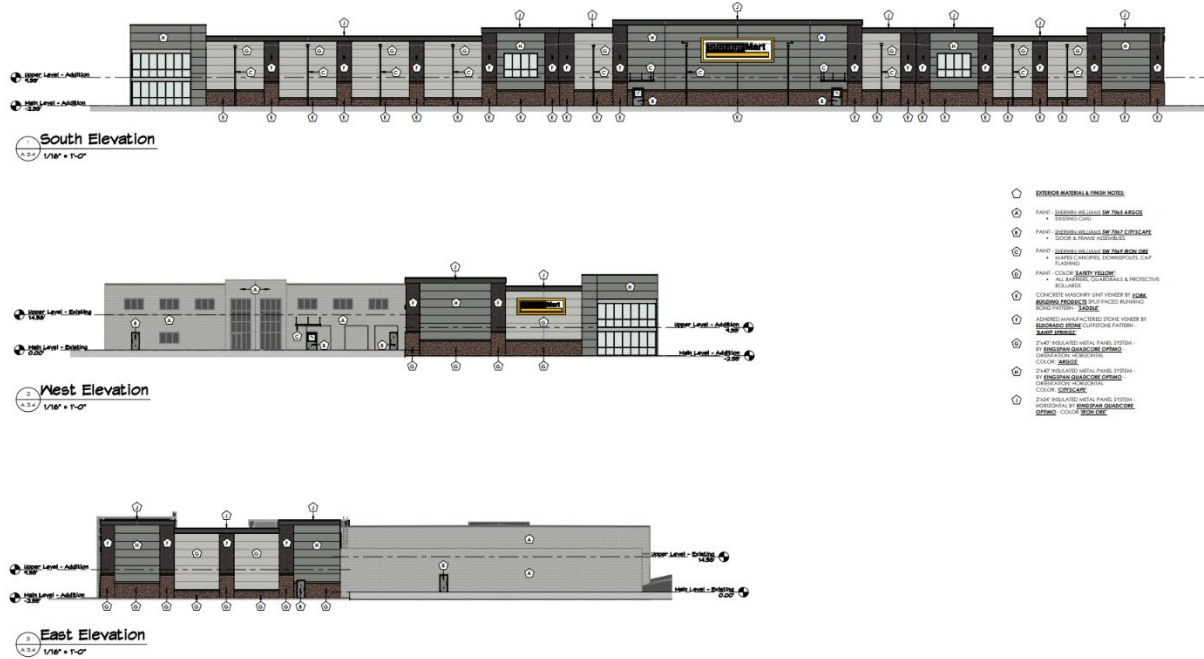
### Architectural Plan

The submitted architectural elevations show a substantial exterior renovation of the existing industrial building and the construction of a new two-story addition. The updated plans include exterior material and finish notes, including painted existing CMU, painted door and frame assemblies, painted accessory items such as exposed gutters/downspouts and cap flashing, concrete masonry unit veneer, adhered manufactured stone veneer, and insulated metal panel systems in coordinated gray tones. The south elevation, which is the primary elevation visible from W. Hicks St., includes the greatest level of architectural treatment, with storefront-style glazing, brick/stone base elements, vertical masonry accents, horizontal metal paneling, varied parapet heights, entrance canopies, and wall plane/material changes to reduce the appearance of a long industrial façade.

The west elevation includes similar treatment near the customer entrance and addition, while portions of the existing building remain more utilitarian in appearance. The north and east elevations are less detailed and appear to retain existing wall area, which is less visible from the primary public frontages but should still be maintained in a finished condition.

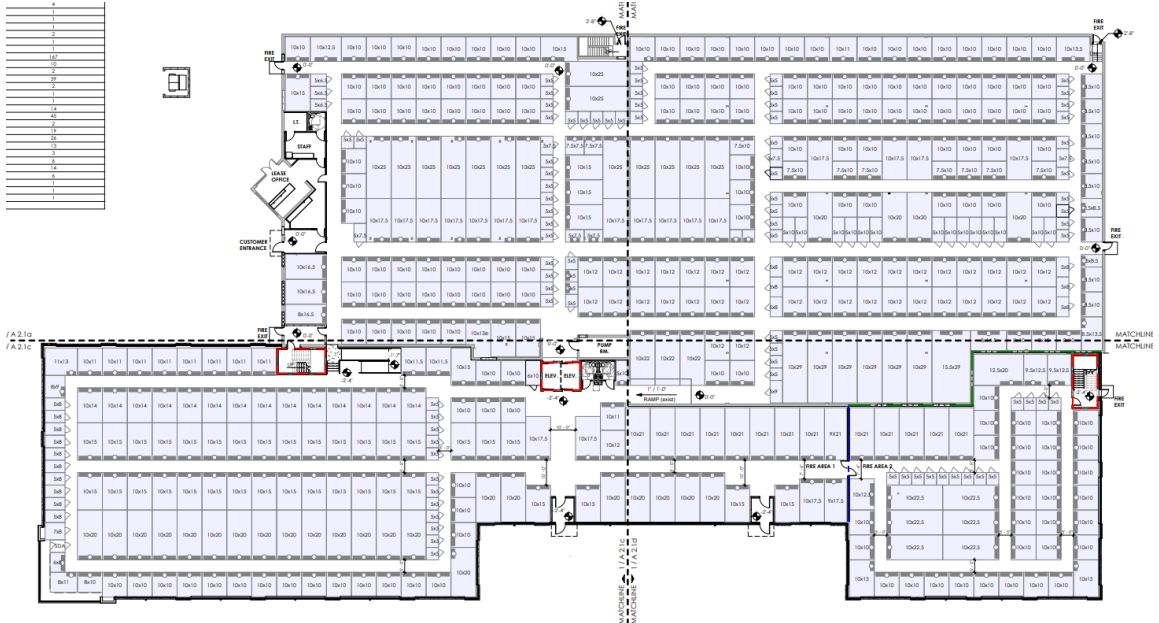
Staff notes that signage is shown on the elevations for general design intent. Final sign location, size, illumination, color, and style will require separate review through the sign permit process. Given the residential properties across W. Hicks St., staff recommends that final signage and

lighting be reviewed to ensure compliance with City standards and to limit unnecessary glare or visual impacts toward nearby residences.

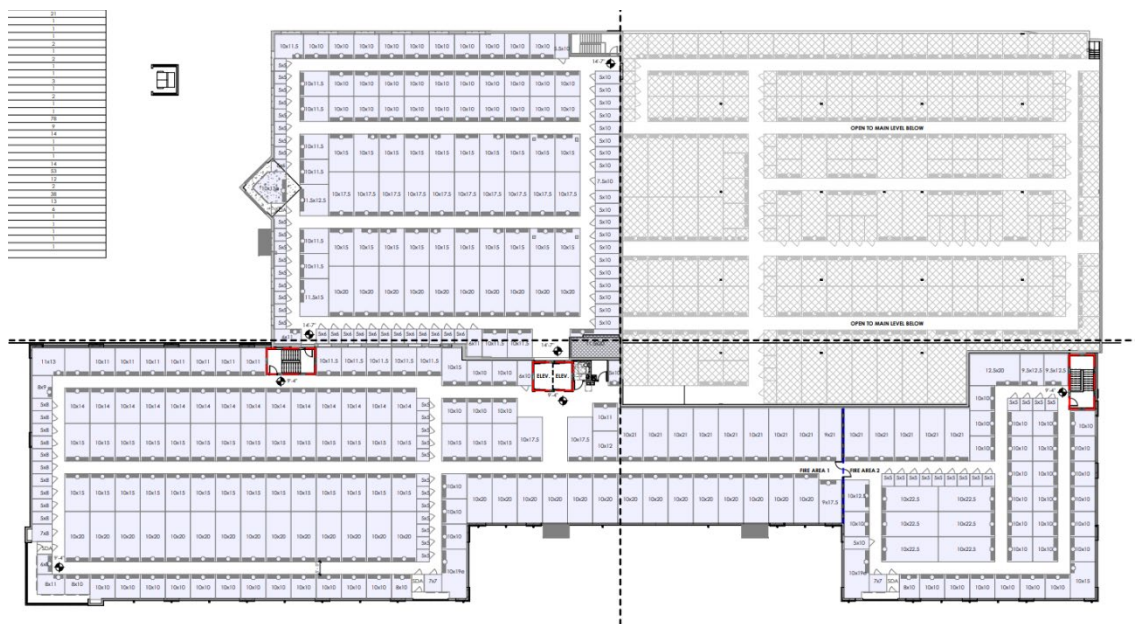


### Floor Plan

The interior floor plan is designed to maximize the amount of climate-controlled storage space within the renovated building and new addition. A total of 884 storage units are shown across two levels, with 532 units on the main level and 352 units on the upper level. The main level includes customer entrances on the west and south sides, a leasing office on the west side, staff/support spaces, restrooms, storage corridors, and fire exits. The upper level is accessed by stairs and elevators located near the central customer circulation area. The plans also show a pump room and interior fire-area separation, with most of the upper level dedicated to storage units.



Composite Main Level Renovated Floor Plan  
 1/8" = 1'-0"



Composite Upper Level Renovated Floor Plan  
 1/8" = 1'-0"

RENOVATION



**Public Comment**

The applicant hosted a public neighborhood meeting for the project on June 18, 2026, from 4:00 p.m. to 8:00 p.m. The meeting was intended to provide the community with an opportunity to review the proposal and discuss questions directly with the project applicant.

Staff received public comments regarding the proposed redevelopment, including concerns about the proximity of the use to nearby residential properties, the overall fit of a self-storage facility near homes, and the potential for moving trucks or related customer traffic to travel through residential streets. Staff also received a nearby resident phone inquiry regarding the potential for moving truck traffic in the neighborhood.

In response to these comments, the applicant stated that self-storage is generally one of the quieter and less intensive uses allowed in the I-1 District and that most customers are expected to access the facility by personal vehicle. The applicant further stated that large moving trucks are expected to be rare, that smaller box truck activity is more common but still substantially less frequent than personal vehicle trips, and that customer visits vary widely, with some tenants visiting often and others visiting infrequently.

Staff recommends conditions related to final landscaping, lighting, signage, bicycle parking, and architectural details as shown on the approved plans. Any substantial modifications to site circulation or access arrangements shall be subject to staff review and approval.

## Design Guidelines

The proposal is considered a significant redevelopment and is therefore subject to the City's Design Review Guidelines. Overall, staff finds that the project generally meets the intent of the applicable guidelines through the adaptive reuse of an existing industrial building, architectural enhancements, additional landscaping, permeable paving, and improved customer access and circulation. While a self-storage facility does not create the same level of street activity as commercial or mixed-use development, the proposal incorporates new entrances, storefront glazing, sidewalks, landscaping, and internalized vehicle circulation that improve the site's relationship to the public realm. The architectural improvements, including updated materials, wall treatments, canopies, and coordinated building elements, substantially enhance the appearance of the property.

See attached Plan Commission checklist for further reference.

**Recommendation:** Approve the Site, Landscaping, and Architectural Design Review for Storage Five West Allis, a proposed Light Industrial use, at 7840 W. Hicks St. (Tax Key No. 477-0142-000) subject to the following conditions:

1. All required [building](#), [occupancy](#), [stormwater](#), and related permits shall be obtained prior to commencing work or occupying the facility.
2. Submittal of revised plans to the Planning & Zoning office showing the required bicycle parking spaces for 10 bicycles, preferably split between the west and south customer entrances where practical.
3. Final signage shall require separate review and approval through the sign permit process and shall comply with all applicable location, size, illumination, and design standards.
4. Final site, civil, landscaping, architectural, lighting, stormwater checklist, and utility plans shall be submitted for review and approval by the applicable City departments prior to permit issuance.
5. The applicant shall coordinate construction staging details with City staff and any complete any [drive-way and right-of-way permits](#).



**STAFF REPORT  
WEST ALLIS PLAN COMMISSION  
Wednesday, June 24<sup>th</sup>, 2026  
City Hall, Room 128  
6:00 PM**

**3A. Conditional Use Permit for Living Hope Lutheran Church, a proposed Religious Institution use at 1337 S. 100 St.**

**3B. Site, Landscaping, and Architectural Design Review for Living Hope Lutheran, an existing Religious Institution use, at 1337 S. 100 St. (Tax Key No. 444-0534-002).**

**Project Overview**



Living Hope Lutheran Church is requesting a Level 2 Site, Landscaping and Architectural Design review and Board of Appeals review to approve the proposed building renovations to their existing property located at [1337 S. 100 St.](#) The property is zoned RA-3, and Religious Institutions are allowed in this district as Conditional Uses.

The entire scope of the project includes the following:

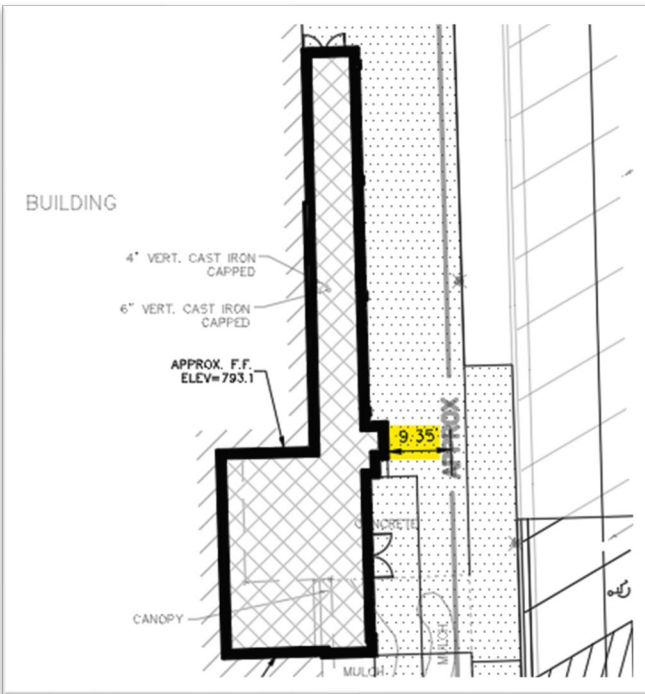
- 17,344 sq. ft. interior remodel of the first floor to convert the space from a school to a space more aligned with a church.
- A 1,200 sq. ft. canopy and vestibule to provide an enclosed ADA ramp between two sections of the building
- A steeple/tower addition to provide a stronger building presence along S. 100 St.

This property was formerly used as Living Hope Lutheran Church's school and daycare, meant to serve its congregation. The use of the building has altered over time with the relocation of the school to 2217 S. 99 th St., prompting the use of the building to shift toward a Religious Institution use.

**Site and Landscaping Plans**

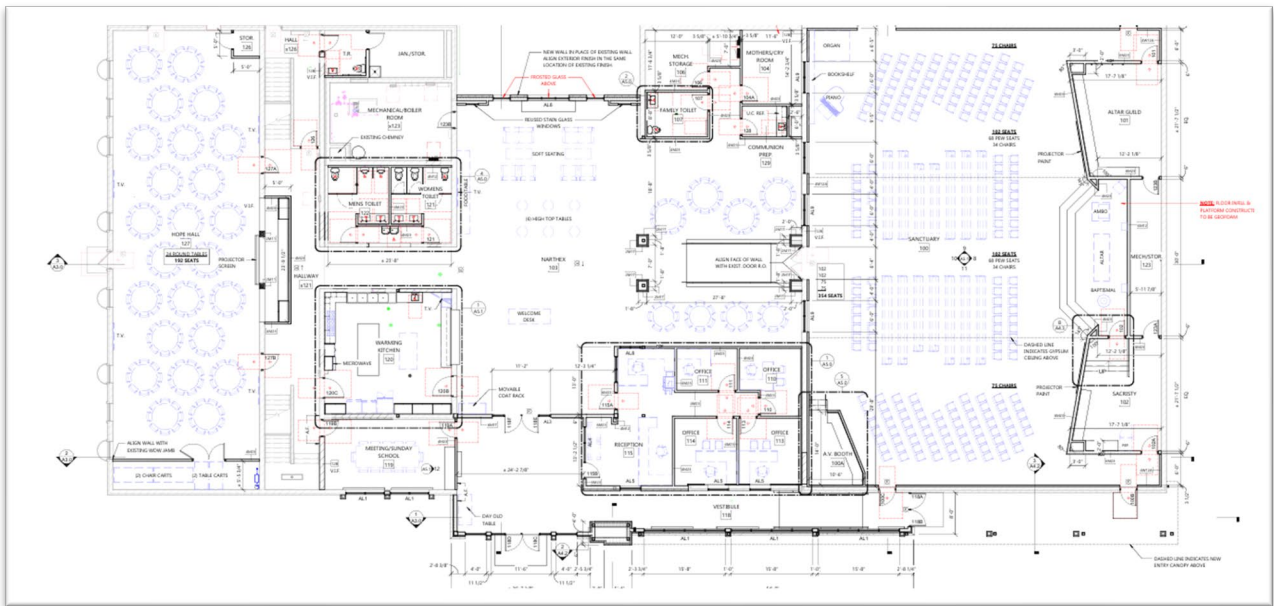
The primary building on site, which formerly was utilized as a school and daycare, is roughly 17,000 sq. ft. in area presently. The site plan for this project indicates the construction of a new, enclosed ADA ramp and vestibule addition to the front of the building abutting S 100<sup>th</sup> St., indicating an additional 1,200 sq. ft. of addition proposed through this project. The 1,200 sq.ft. ADA ramp vestibule must obtain an area variance to Sec 19.41 of the WAMC in order to be placed closer than 20 ft (the minimum front setback distance) from the front lot line of the property. If granted through the Board of Appeals, whose meeting

will be held on June 23<sup>rd</sup> prior to Plan Commission, the ADA ramp will be allowed to be located 9.35 ft from the front property line.



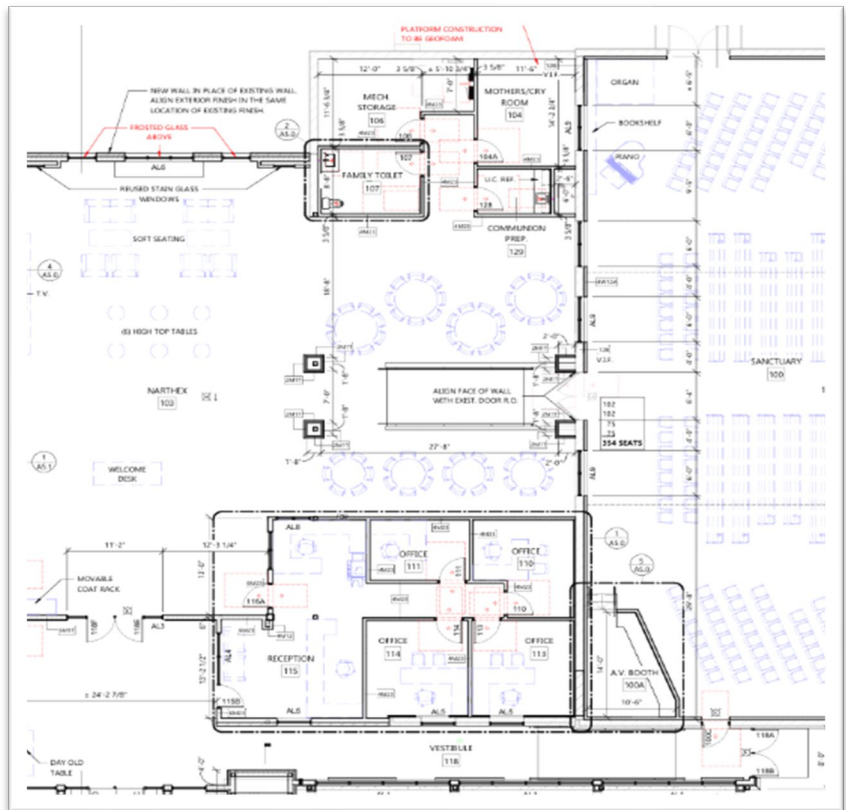
Other components of the site plan indicate 65 parking spaces directly serve this building, with some additional parking available on the adjoining lot where the church offices are located. There is also street parking along S. 100 St. A dumpster enclosure is shown toward the rear of the site and is screened with a 4-sided enclosure and gate on a concrete pad north of the main parking lot of this building. A small playset and playground abut a wood retaining wall directly behind the back of the primary building, accompanied by a grass landscaped area and small wooded region just south of the playground. To the east of the playground, a basketball hoop, planter, and concrete retaining wall are situated adjacent to the building. Intentionally curated landscaping is located along the easternmost wall of the primary building, fronting S. 100<sup>th</sup> St. While this site currently supports grass landscaping with mulched planter beds, existing features such as the southernmost tree and a small set of stairs will be removed to accommodate the new enclosed ADA ramp and vestibule. These plans also show that the existing water laterals will be capped and abandoned per City standards.

## Floor Plan

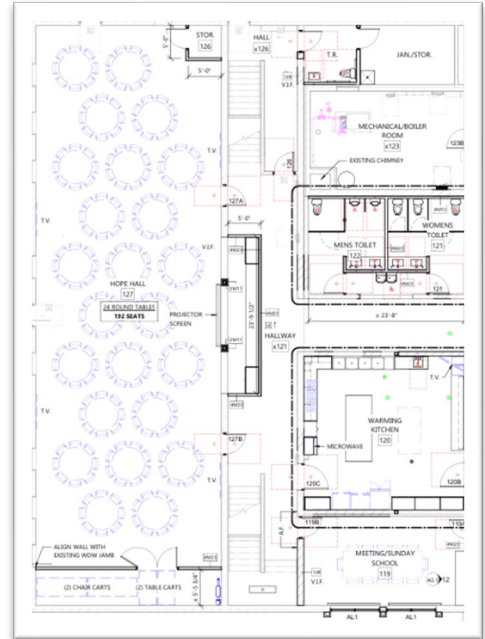
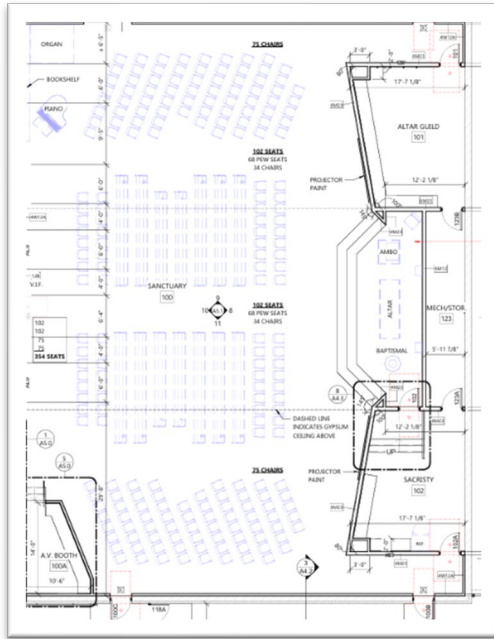


With the addition of the new enclosed ADA ramp and vestibule, the entrance to the building will differ compared to the past entryway. From the vestibule, the congregation will primarily enter through a large, reception area which will directly abut a reception office and four other assorted offices.

Another entrance will lead directly from the ADA ramp into the service room, where the former school gymnasium will be converted to accommodate 354 seats for the congregation in the sanctuary. Behind these seats, a piano, organ, and A.V. room will be placed. The seating in this room will face an altar, altar guild, sacristy, and a storage room. Two methods of egress to this room will be located to the western wall, one entrance through the vestibule will provide egress to the east, and another emergency exit is located along the same eastern wall.



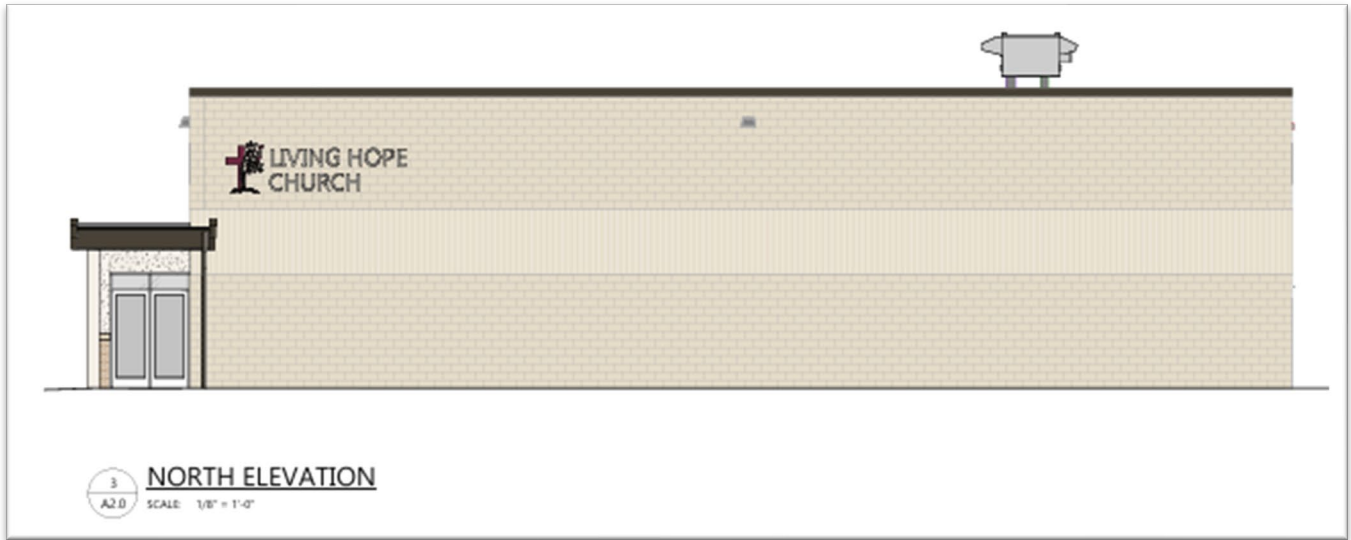
Directly south of the sanctuary, a storage room, family restroom, mothers/crying room, and communion prep. Room are located near some scattered seating arrangements. Toward the southern end of the building, several classrooms and existing, non-ADA compliant restrooms will be



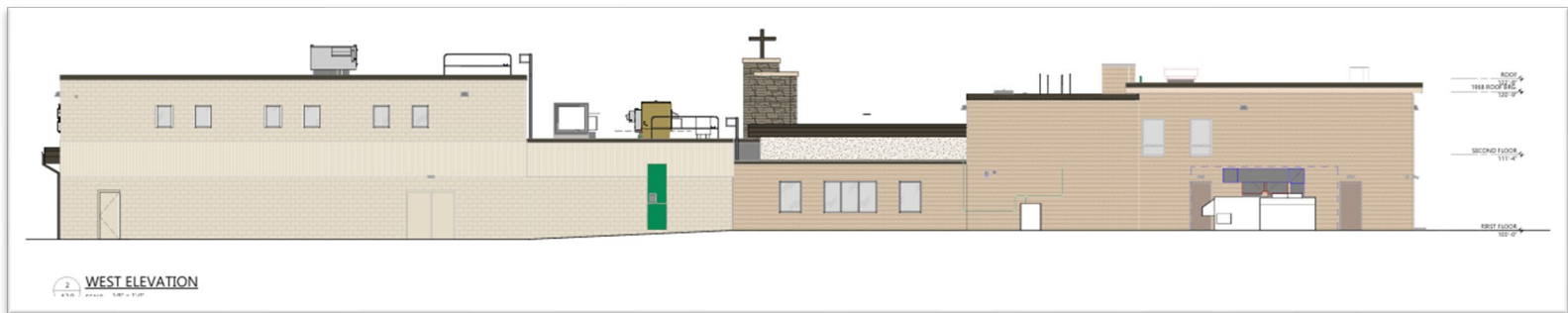
converted to a warming kitchen, Sunday School room, two new ADA-compliant restrooms, janitorial and storage rooms, and a large hall accomodating 192 seats for the congregation. No second floor plan has been submitted for review.

### Architectural Elevations

Most of the architectural elevations details will remain the same as they historically have through servicing the school. An exterior material key was provided for new features on the site and include stone veneer, brick veneer, prefinished metal trim, engineered wood trim, cast stone sills, and EIFS. Staff note that EIFS is not an approved exterior finish material due to its lack of durability demonstrated over time. This material should be replaced with a different, higher quality exterior finish material.



The north elevation will remain largely unchanged, with a new sign advertising the church indicated on this façade. The entrance to the ADA ramp and vestibule is shown on this plan.



The western elevation will remain the same as it has in the past, supporting four methods of egress to the playground area.



The south elevation will also remain largely unchanged, aside from showing a portion of the new ADA ramp and vestibule. One method of egress is provided on this plan.



The eastern elevation, directly fronting S. 100<sup>th</sup> St. will experience the greatest level of changes reflected on the architectural elevation plan. Here, the full length of the ADA ramp and vestibule is fully shown. Three new rooftop ladders are also shown, with a new tower created to establish a stronger presence for the building as a church. New signage is indicated on this plan.

**Recommendation:** Approval of Site, Landscaping, and Architectural Design Review for Living Hope Lutheran, an existing Religious Institution use, at 1337 S. 100 St. (Tax Key No. 444-0534-002) subject to the following conditions:

1. Conditional Use application submitted to the Planning Department for Common Council approval the change of the former School and Group Child Care uses of the building to accommodate the new Religious Institution use.
2. Revised Site, Landscaping, and Architectural plans submitted to show the following: a) submission of a second-floor plan for review by the Planning Department. b) The replacement of EIFS as a material indicated on the architectural elevation plans in favor of a durable, high-quality exterior finish material.
3. A stormwater checklist submitted and approved by the Engineering Department. Contact Robert Hutter, Assistant City Engineer at 414-587-1699.
4. Plan Review, Building Permit, and Change of Use submitted to the Commercial Construction Inspector. Contact Shelly Kerwin at 414-302-8412.

June 17, 2026

## Project Narrative

Project: Living Hope Lutheran Church  
1337 S 100<sup>th</sup> Street  
West Allis, WI 53214

Living Hope Lutheran Church is requesting Level 2 Site, Landscaping & Architectural Design review and Board of Appeals review and approval for building renovations and site improvements to their existing property located at 1337 S 100<sup>th</sup> Street in the City of West Allis. The property is zoned RA-3 and an existing conditional use permit is in place.

Project scope includes a 17,344 sf interior remodel of the existing first floor of the building where they are currently using the existing gym space for worship. The interior remodel will transform the look of the interior of the existing gym to be more suitable, safer, and functional for worship and fellowship. Additionally, spaces where there are currently existing classrooms will be remodeled with the removal of walls to provide a large Narthex/ Lobby space for gathering. The existing toilet rooms will be remodeled to meet ADA accessibility requirements. Additional existing classrooms and storage space will be remodeled for a new kitchen to sever the proposed Hope Hall Room which is a remodeled space of three existing classrooms (along the south side of the building). The existing kitchen and toilet rooms will be removed and remodeled to create administration space and additional Narthex support space. As part of this project, there is a proposed approximate 1,200 sf canopy/ vestibule and steeple/ tower addition which will give the building a stronger presence along S. 100<sup>th</sup> Street and identify the building as a church instead of as a school which it once was.

The proposed addition will be located on the east side of the existing building and will encompass approximately 1,200 square feet. The project consists of the construction of a new enclosed vestibule and corridor that will provide a direct connection between the primary building entrance and the sanctuary entrance to the north. The vestibule and connecting walkway have been designed to improve ADA accessibility within the facility. This addition will allow for a safe and compliant route between the two entrances while maintaining a fully enclosed connection. The architectural design of the addition has been developed to complement the existing structure. Building materials and finishes, as illustrated in the submitted elevation drawings, will include stone and brick veneer selected to match the colors and character of the existing building. The addition will be visually cohesive and integrated with the current architecture. The total area of site disturbance associated with this project is approximately 0.03 acres. The proposed addition will enhance accessibility, safety, and usability of the building while maintaining consistency with the existing architectural aesthetic.

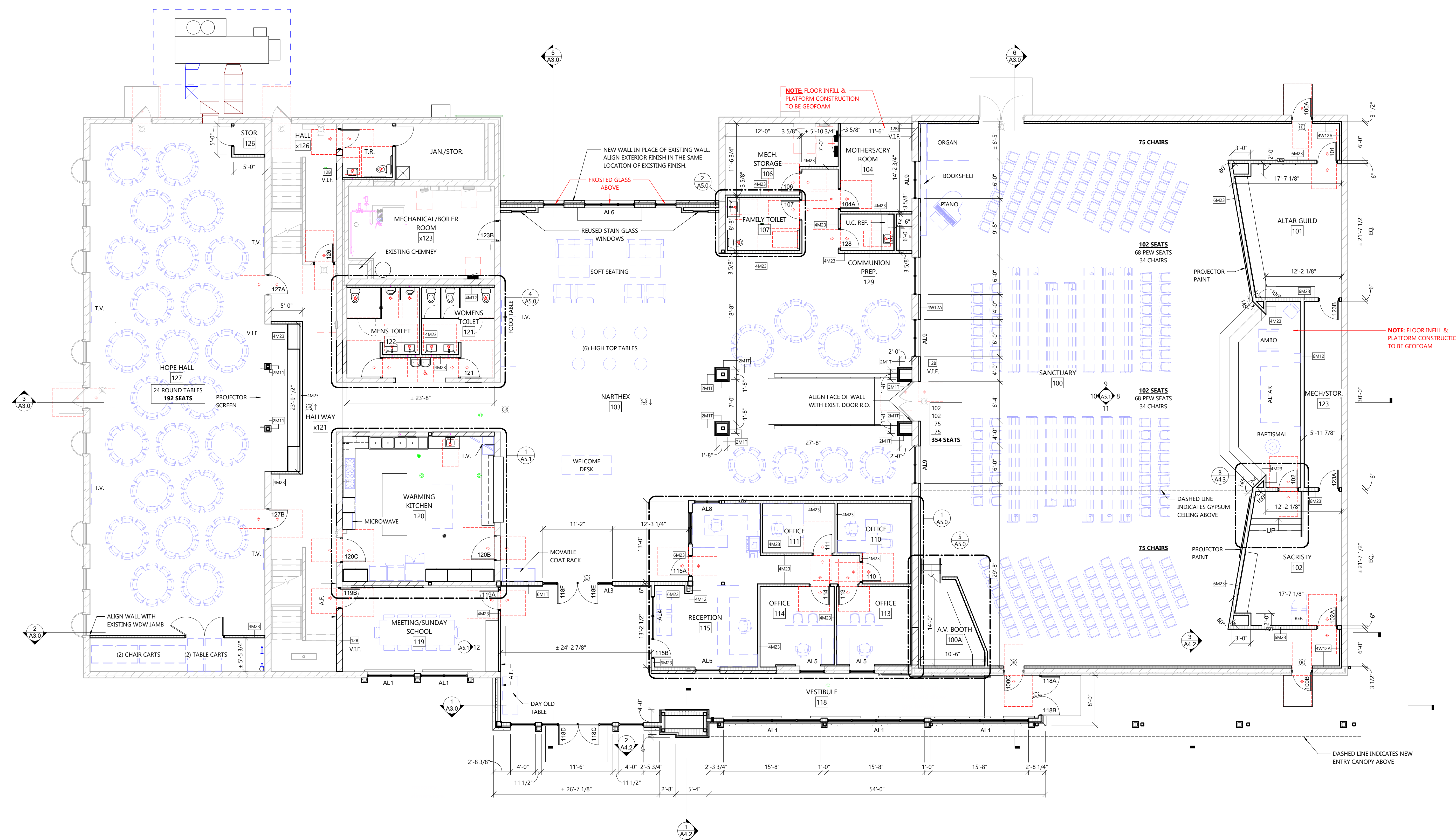
Relief is requested from municipal code section 19.42 Building Size and Location. The variance request meets the four (4) zoning variance requirements as noted below:

1. There are exceptional or unique conditions specific to the property that do not generally apply to other properties in the same zoning district.

- The property has a unique existing condition in that the building predates the current zoning code/ setback requirements. Additionally, the primary entrance and the sanctuary have different finish floor elevations, requiring an ADA compliant route for occupants to move between spaces. These combined factors create a constraint that is not typical of other properties in the zoning district. To provide a safe, ADA-compliant route, the addition must align with existing entrances. Because the building already encroaches into the required setback, there is no feasible way to construct this connection without further encroachment. The proposed 9.35-foot setback is therefore driven by the existing building placement and the need to create a safe and accessible connection, representing a condition unique to this property.
2. Without the variance, the property cannot be reasonably used in a manner consistent with the zoning code.
    - Without the variance, the property would be unable to provide an additional ADA-compliant accessible route between the main entrance and the sanctuary. The existing building's placement within the setback already limits available options for expansion. Strict compliance with the 20-foot setback would prevent proper alignment and grading of the walkway, making it impractical to construct a safe, accessible connection. As a result, members of the church that require ADA compliance would not have equitable access between key areas of the building, creating both safety concerns and noncompliance with accessibility standards. The variance is necessary to allow the property to function safely and reasonably for all users.
  3. The variance will not be harmful to the public interest; nor will it negatively impact neighboring properties or undermine the intent of the zoning code.
    - The additional encroachment into the building setback is directly related to the new ADA ramp/ access corridor, thus making the building safer for the public. The addition is the minimum size necessary and is going over existing green space/ sidewalk and does not encroach on the public sidewalk therefore all public access remains the same and will not negatively impact the surrounding area. The proposed addition will match the existing structure and surrounding properties. The addition improves safe circulation within the building by providing a clearly defined, accessible route between entrances. It will not generate additional traffic, noise, or adverse impacts to neighboring properties. Because the variance supports improved safety and accessibility while maintaining consistency with the existing site conditions, it does not undermine the intent of the zoning code.
  4. The hardship was not self-created by the property owner through actions such as subdividing, building, or altering the property.
    - The hardship is not self-created, as it originates from the existing placement of the building, which is already within the required 20-foot setback, and from the original layout that separates key building functions without an accessible connection. These conditions predate the current project. The property owner is seeking to address these limitations by improving safety and accessibility through the addition of an ADA-compliant connection. The need to encroach further into the setback is a direct result of working within the constraints of the existing structure, rather than any action taken by the current owner. The variance is

therefore necessary to correct an existing condition, not one that was self-imposed.

The proposed facility will operate as a church providing Bible Study and Sunday School classes. Hours of operation are Sunday from 7 AM – 1 PM, weeknights from 5 PM – 8 PM for Bible Study and various Bible Study classes, and Saturdays from 10 AM – 12 PM and 5 PM – 7 PM. Construction is anticipated to begin in November and is expected to be completed in early 2027. The estimated project cost is \$4.5 million.



**FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 0' 8' 16'

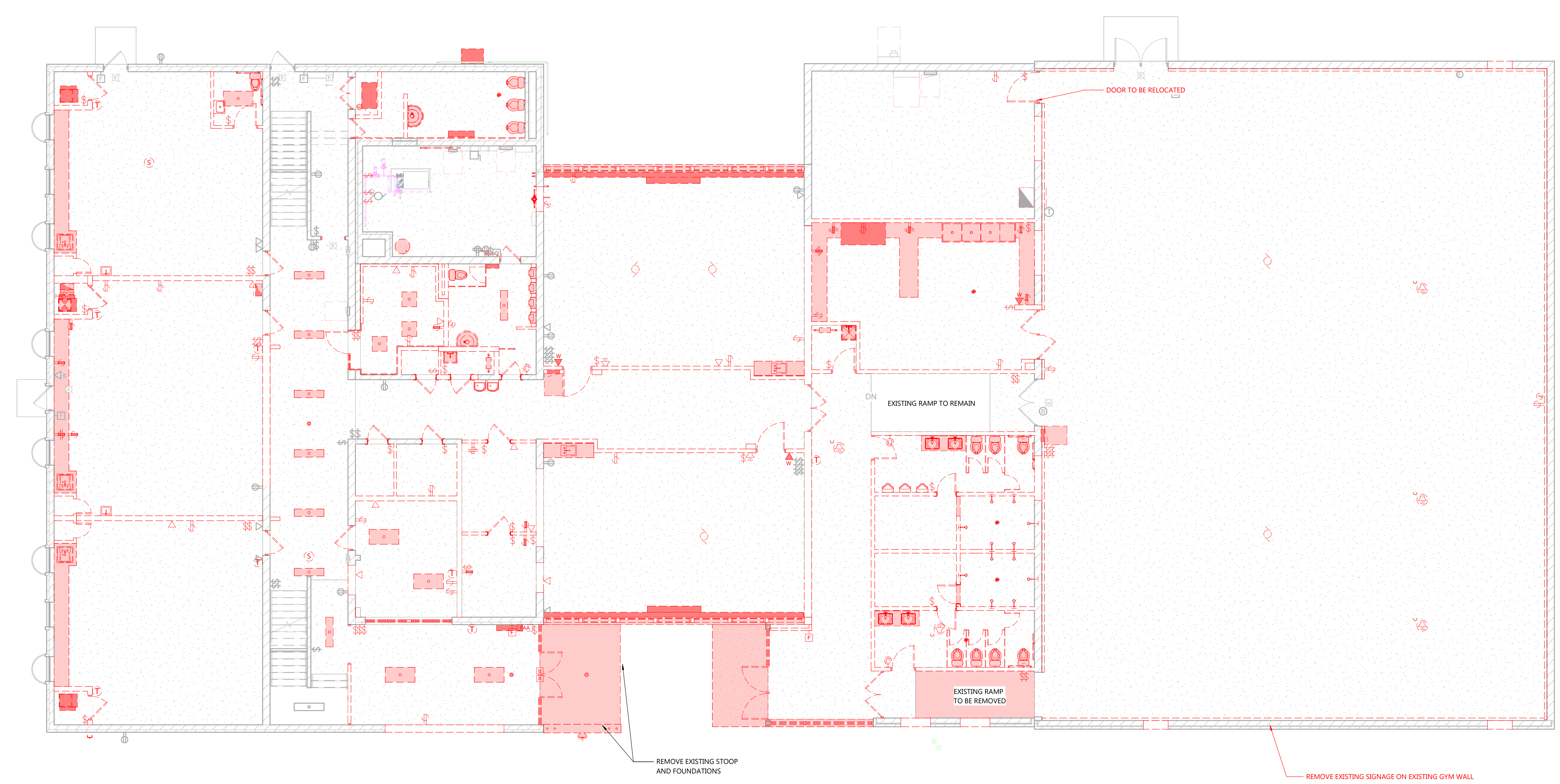
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**SYMBOLS LEGEND**

	EXISTING WALL TO REMAIN
	EXISTING WALL TO BE DEMOLISHED
	(1) HOUR FIRE RATED
	(2) HOUR FIRE RATED
	(3) HOUR FIRE RATED
	(4) HOUR FIRE RATED
SEE PLAN FOR ALL WALL WIDTHS	
	EXISTING DOOR TO REMAIN
	EXISTING DOOR TO BE DEMOLISHED
	EXISTING DOOR TO BE RELOCATED - SEE FLOOR PLAN FOR NEW LOCATION

- GENERAL NOTES**
- NOTIFY EXCEL ENGINEERING OF ANY DISCREPANCIES BETWEEN EXISTING PLANS AND FIELD CONDITIONS BEFORE REMOVAL.
  - REVIEW WITH THE OWNER WHICH ITEMS ARE TO BE TURNED OVER TO THE OWNER BEFORE STARTING DEMOLITION WORK. REMOVE ANY ITEM NOT WANTED BY THE OWNER AND DISPOSE OF IN THE PROPER AND LEGAL MANNER.
  - REMOVE ALL WALLS SHOWN "HEAVY DASHED" OR RED. NOTIFY EXCEL ENGINEERING IF ANY OF THE WALLS ARE FOUND TO BE LOAD BEARING BEFORE REMOVAL.
  - REMOVE ALL DOORS SHOWN "HEAVY DASHED" OR RED INCLUDING FRAME AND ALL HARDWARE AND ACCESSORIES.
  - REMOVE ALL WINDOWS SHOWN "HEAVY DASHED" OR RED INCLUDING FRAME AND SILLS.
  - REMOVE ALL MISC ITEMS SHOWN "HEAVY DASHED" OR RED. **SHOULD TAG MISC ITEMS SO THEY UNDERSTAND WHAT THEY ARE REMOVING. IF MANY ITEMS, CAN CREATE A KEYNOTE.**
  - CUT WALLS FOR INSTALLATION OF NEW ELECTRICAL RECEPTACLE AND SWITCH BOXES AND ASSOCIATED CONDUITS. SEE ELECTRICAL PLANS FOR LOCATIONS.
  - CUT WALLS FOR INSTALLATION OF NEW BLOCKING OR BACKING IN EXISTING WALLS.
  - NOT ALL NEW OPENINGS FOR MEP WORK ARE SHOWN IN WALLS AND FLOORS. PROVIDE ADDITIONAL OPENINGS NOT SHOWN FOR WORK. **OPENINGS LARGER THAN APPROX 100 SQ IN. IN MASONRY, PRECAST, IMP WALLS SHOULD BE SHOWN.**
  - PROVIDE TEMPORARY ENCLOSURES FOR KEEPING THE FACILITY IN OPERATION DURING CONSTRUCTION. ENCLOSURE SHALL BE A WALLED-IN DUST BARRIER (WATERPROOF WHERE EXPOSED TO THE EXTERIOR). PROVIDE MEP WORK TO KEEP THE FACILITY OPERATIONAL. SEE PLAN FOR ENCLOSURE LOCATIONS.
  - MAINTAIN REQUIRED EGRESS PATHS AND SAFETY PRECAUTIONS FOR CONSTRUCTION IN EXISTING OCCUPIED BUILDING. **CONSIDER HOW TO MAINTAIN EXISTING DURING CONSTRUCTION.**

**DEMO PLAN KEYNOTES**



**FIRST FLOOR DEMOLITION PLAN**  
 SCALE: 1/8" = 1'-0"  
 0 8 16

PROFESSIONAL SEAL

PRELIMINARY DATES  
 NOV. 6, 2025  
 FEB. 17, 2026  
 MAY 26, 2026

NOT FOR CONSTRUCTION

JOB NUMBER  
 250051500

SHEET NUMBER  
**AD1.0**

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# PROPOSED RENOVATIONS FOR: LIVING HOPE CHURCH

## WEST ALLIS, WI



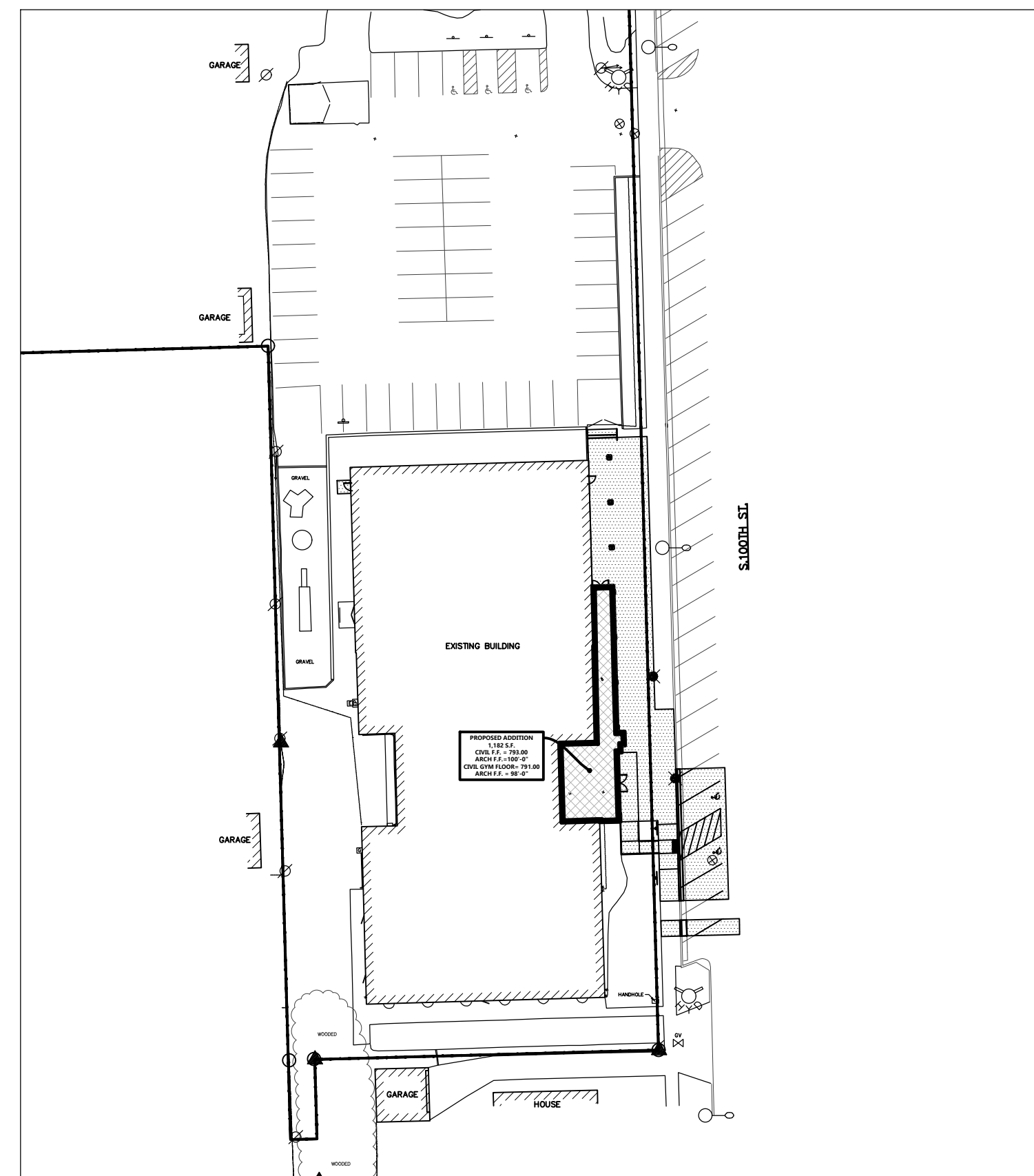
Always a Better Plan  
100 Camelot Drive  
Fond du Lac, WI 54935  
920-926-9800  
excelengineer.com

COLLABORATION



PROJECT INFORMATION

PROPOSED RENOVATION FOR:  
**LIVING HOPE CHURCH**  
1337 S. 100TH STREET • WEST ALLIS, WI 53214



**SITE PLAN OVERVIEW**  
SCALE: 1" = 50'  
NORTH

### LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYM.	IDENTIFICATION	SYM.	IDENTIFICATION
<b>SPOT ELEVATIONS</b>			
● 0000.00	PROPOSED SPOT ELEVATIONS (FLOW LINE OF CURB UNLESS OTHERWISE SPECIFIED)	◀ 0000.00/HC	PROPOSED SPOT ELEVATIONS (TOP OF CURB, FLOWLINE OF CURB)
● 0000.00/EG	EXISTING GRADE SPOT ELEVATIONS	◀ 0000.00/BW	PROPOSED SPOT ELEVATIONS (TOP OF WALK, BOTTOM OF WALK @ FLOWLINE)
● 0000.00/EG	PROPOSED SPOT ELEVATIONS (REFERENCE R-WALL DETAIL) BG-FINISHED SURFACE GRADE AT BACK OF WALL		
● 0000.00/EG	FG-FINISHED SURFACE GRADE AT FRONT OF WALL		
<b>EXISTING SITE SYMBOLS</b>			
⚡	EXISTING SIGN	⊗	EXISTING UTILITY POLE
♿	EXISTING HANDICAP PARKING STALL	⊗→	EXISTING UTILITY POLE WITH GUY WIRE
⊗	EXISTING WATER VALVE IN BOX	○→	EXISTING STREET LIGHT
⊗	EXISTING WATER VALVE IN MANHOLE	⊞	EXISTING TELEPHONE PEDESTAL
✕	EXISTING WATER SERVICE VALVE	⊞	EXISTING ELECTRIC PEDESTAL
⊗	EXISTING WELL	⊞	EXISTING ELECTRIC BOX
⊗	EXISTING STORM CATCH BASIN	⬅	EXISTING FLOOD LIGHT
⊞	EXISTING STORM CURB INLET	⊞	EXISTING TELEPHONE MANHOLE
⊞	EXISTING SQUARE CATCH BASIN	⊞	EXISTING CABLE TV PEDESTAL
⊞	EXISTING LIGHT POLE	⊞	EXISTING GAS VALVE
■	1-1/4" REBAR SET WEIGHING 4.30 LB/FT.	⊞	EXISTING HEDGE
●	3/4" REBAR SET WEIGHING 1.50 LB/FT.	⊞	EXISTING WOODED AREA
□	1-1/4" REBAR FOUND	⊞	EXISTING MARSH AREA
○	3/4" REBAR FOUND	⊞	EXISTING DECIDUOUS TREE WITH TRUNK DIAMETER
⊗	2" IRON PIPE FOUND	⊞	EXISTING CONIFEROUS TREE
▲	1" IRON PIPE FOUND	⊞	EXISTING SHRUB
⊞	SECTION CORNER	⊞	EXISTING STUMP
<b>PROPOSED SITE SYMBOLS</b>			
⚡	PROPOSED SIGN	⊗	PROPOSED STORM FIELD INLET - ST FI
♿	PROPOSED HANDICAP PARKING STALL	⊗	PROPOSED LIGHT POLE
⊗	PROPOSED WATER VALVE IN BOX	→	PROPOSED DRAINAGE FLOW
⊗	PROPOSED WATER VALVE IN MANHOLE	→	PROPOSED APRON END SECTION
✕	PROPOSED WATER SERVICE VALVE	⊞	SOIL BORING
⊗	PROPOSED WELL	⊞	CENTER LINE
⊞	PROPOSED STORM CATCH BASIN - ST CB	⊞	PROPOSED CLEANOUT
⊞	PROPOSED STORM CURB INLET - ST CI	⊞	PROPOSED DOWNSPOUT TO GRADE
		⊞	PROPOSED DOWNSPOUT TO RISER
<b>EXISTING LINETYPES</b>			
○	EXISTING CHAINLINK FENCE	— POL —	EXISTING POLISH SEWER AND MANHOLE
□	EXISTING WOOD FENCE	— P —	EXISTING PROCESS SEWER AND MANHOLE
✕	EXISTING BARBED WIRE FENCE	— CLW —	EXISTING CLEAR WATER LINE
—	EXISTING CURB AND GUTTER	— FO —	EXISTING UNDERGROUND FIBER OPTIC LINE
—	EXISTING GUARD RAIL	— E —	EXISTING UNDERGROUND ELECTRIC CABLE
— 800 —	EXISTING GROUND CONTOUR	— T —	EXISTING UNDERGROUND TELEPHONE CABLE
— ST —	EXISTING STORM SEWER AND MANHOLE	— G —	EXISTING UNDERGROUND GAS LINE
— SA —	EXISTING SANITARY SEWER AND MANHOLE	— OU —	EXISTING OVERHEAD UTILITY LINE
—	EXISTING WATER LINE AND HYDRANT	—	RAILROAD TRACKS
—	INTERIOR PROPERTY LINE	—	RIGHT-OF-WAY LINE
<b>PROPOSED LINETYPES</b>			
○	PROPOSED CHAINLINK FENCE	— POL —	PROPOSED POLISH SEWER AND MANHOLE
□	PROPOSED WOOD FENCE	— P —	PROPOSED PROCESS SEWER AND MANHOLE
✕	PROPOSED BARBED WIRE FENCE	— CLW —	PROPOSED CLEAR WATER LINE
—	PROPOSED CURB AND GUTTER	— FO —	PROPOSED UNDERGROUND FIBER OPTIC LINE
—	PROPOSED GUARD RAIL	— E —	PROPOSED UNDERGROUND ELECTRIC CABLE
— 800 —	PROPOSED GROUND CONTOUR	— T —	PROPOSED UNDERGROUND TELEPHONE CABLE
— ST —	PROPOSED STORM SEWER AND MANHOLE - ST MH	— G —	PROPOSED UNDERGROUND GAS LINE
— SA —	PROPOSED SANITARY SEWER AND MANHOLE - SAN MH	— OU —	PROPOSED OVERHEAD UTILITY LINE
—	PROPOSED WATER LINE AND HYDRANT	—	MATCHLINE
—	PROPOSED PROPERTY LINE	—	GRADING/SEEDING LIMITS

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN  
CALL DIGGERS HOTLINE  
1-800-242-8511  
TOLL FREE TELEFAX (414) 259-0947  
TDD (FOR THE HEARING IMPAIRED)  
1-800-542-2289  
WISCONSIN STATUTE 182.075 (1974)  
REQUIRES MINIMUM OF 3 WORK DAYS  
NOTICE BEFORE YOU EXCAVATE

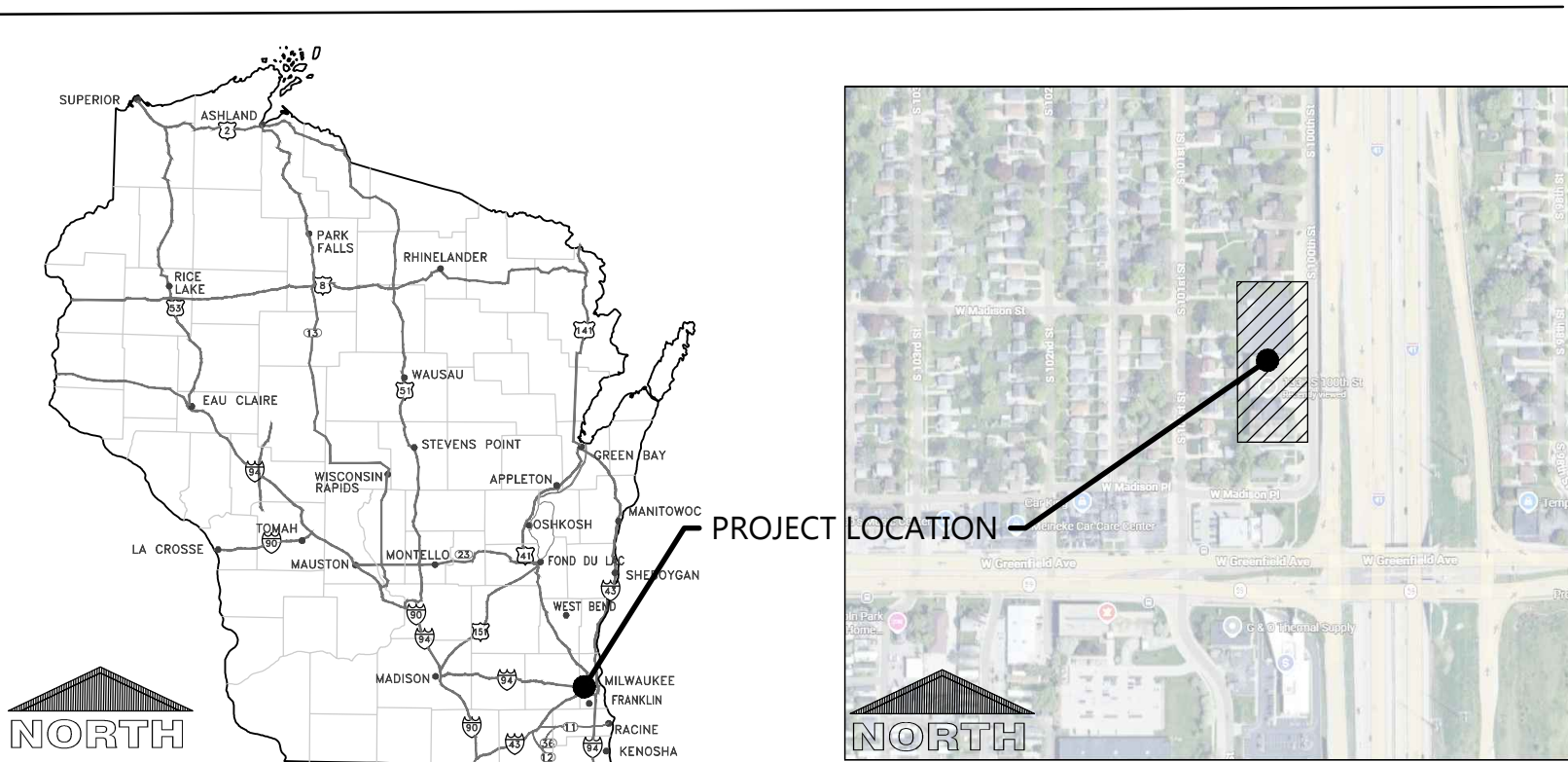
### PROJECT CONTACTS

**CLIENT INFORMATION:**  
Catalyst Construction, Inc.  
Contact: Zach Becker  
833 E. Michigan Street, Suite 1000  
Milwaukee, WI 53202-5618  
Phone: (414) 727-6840  
Email: ewilliams@catalystbuilds.com

**CIVIL:**  
EOR: Eric Draskowski, P.E.  
Contact: Zach Becker  
Phone: (920) 926-9800  
E-mail: zach.becker@excelengineer.com

**CITY PLANNER:**  
Jack Kovnesky  
Phone: (414) 302-8469  
E-mail: jkovnesky@westallis.gov

### LOCATION MAP



### PROJECT NOTES

**GENERAL PROJECT NOTES**  
1. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL WORK IN ROW PERMITS.

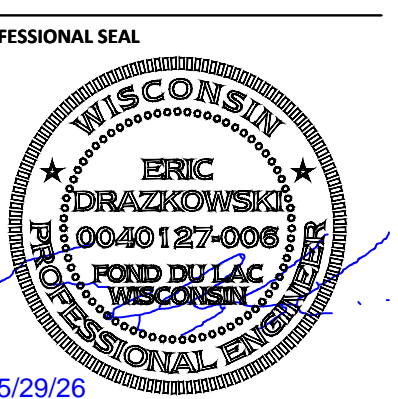
#### CONSTRUCTION STAKING SERVICES

CONSTRUCTION STAKING SHALL BE COMPLETED BY EXCEL ENGINEERING AS REQUESTED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. CONTRACTOR TO CONTACT RYAN WILGREEN AT 920-926-9800 OR RYAN.W@EXCELENGINEER.COM TO GET STAKING PRICE TO INCLUDE IN BID TO OWNER. PAYMENT OF STAKING COSTS ABOVE AND BEYOND THE BASE PRICE DUE TO RESTAKING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR, NOT THE OWNER. CAD DRAWING FILES AND SURVEY CONTROL WILL NOT BE PROVIDED FOR STAKING PURPOSES.

### SHEET INDEX

SHEETS BELOW INTENDED TO BE PRINTED IN COLOR. REFER TO DIGITAL FORMAT DRAWINGS IF PRINTED GRAYSCALE TO ENSURE SCOPE CLARITY.

NUMBER	SHEET NAME / DESCRIPTION
C0.1	COVER SHEET
C0.2	SPECIFICATIONS
C1.0	EXISTING SITE AND DEMOLITION PLAN
C1.1	SITE PLAN
C1.2	GRADING AND EROSION CONTROL PLAN
C1.3	UTILITY PLAN



PRELIMINARY DATES

MAY 26, 2026

NOT FOR CONSTRUCTION

JOB NUMBER

250051500

SHEET NUMBER

**C0.1**

# CIVIL SPECIFICATIONS

## DIVISION 31 EARTH WORK

### 31 10 00 SITE CLEARING (DEMOLITION)

- CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING SITE DEMOLITION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD TELETYPE ALL EXISTING SANITARY AND STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE AT TIME OF DEMOLITION. THE TELETYPE SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELETYPE OF THESE LATERALS SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELETYPE.
- DEMOLITION PLAN IS AN OVERVIEW OF DEMOLITION TO TAKE PLACE ON SITE. CONTRACTOR TO FIELD VERIFY EXISTING SITE CONDITIONS PRIOR TO BIDDING. CONTRACTOR SHALL REMOVE, REPAIR, OR RECONSTRUCT ALL ITEMS AS NEEDED DURING CONSTRUCTION.
- CONTRACTOR TO PROTECT EXISTING IMPROVEMENTS THAT ARE SCHEDULED TO REMAIN. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
- ALL CONCRETE NOTED TO BE REMOVED SHALL BE REMOVED TO THE NEAREST CONTROL POINT.

### 31 20 00 EARTH MOVING

- CONTRACTOR SHALL CALL DIGGER'S HOT LINE AND CONDUCT A PRIVATE UTILITY LOCATE AS REQUIRED TO ENSURE THAT ALL UTILITIES HAVE BEEN LOCATED BEFORE STARTING EXCAVATION. DESIGN ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN PLAN AND FIELD CONDITIONS PRIOR TO CONSTRUCTION.
- PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR ALL EXCAVATION, GRADING, FILL AND BACKFILL WORK AS REQUIRED TO COMPLETE THE GENERAL CONSTRUCTION WORK. ALL EXCAVATION AND BACKFILL FOR ELECTRICALS AND MECHANICALS ARE THE RESPONSIBILITY OF THE RESPECTIVE CONTRACTOR UNLESS OTHERWISE SPECIFIED IN THE BID DOCUMENTS.
- ALL ORGANIC TOPSOIL INSIDE THE BUILDING AREA, UNDER PAVED AREAS, AND AT SITE FILL AREAS SHALL BE REMOVED. PROF. HILL SUBGRADE BEFORE PLACING FILL WITH HEAVY PNEUMATIC-TIRED EQUIPMENT, SUCH AS A FULLY-LOADED TANDEM AXLE DUMP TRUCK, TO IDENTIFY SOFT POCKETS AND AREAS OF EXCESS YIELDING. CONTRACTOR SHALL VERIFY TOPSOIL DEPTHS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REVIEW AND FOLLOW THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT AND ACCOUNT FOR EXISTING CONDITIONS PRIOR TO SUBMITTING BID FOR THE PROJECT. EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE UNLESS OTHERWISE DIRECTED IN THE PLANS OR BY LOCAL ZONING REQUIREMENTS.
- PLACE AND COMPACT FILL MATERIAL IN LAYERS TO REQUIRED ELEVATIONS UNIFORMLY MOISTEN OR AERATE SUBGRADE AND EACH SUBSEQUENT FILL OR BACKFILL LAYER BEFORE COMPACTION AS RECOMMENDED TO ACHIEVE SPECIFIED DRY DENSITY. REMOVE AND REPLACE OR OTHERWISE DRY OTHERWISE UNSATISFACTORY SOIL MATERIAL THAT IS TOO WET TO COMPACT TO SPECIFIED DRY DENSITY.
- PLACE BACKFILL AND FILL MATERIALS IN LAYERS NOT MORE THAN 8" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT, AND NOT MORE THAN 4" IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.
- COMPACT THE SOIL TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D 698. STANDARD PROCTOR TEST. FILL MAY NOT BE PLACED ON FROZEN GROUND AND NO FROZEN MATERIALS MAY BE USED FOR BACK FILL. APPLY THE MORE STRINGENT REQUIREMENTS WHEN COMPARING BETWEEN THE FOLLOWING AND THE GEOTECHNICAL REPORT.
  - UNDER FOUNDATIONS - SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 98 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS MORE THAN 3 FEET BELOW THE SLAB - PLACE A DRAINAGE COURSE LAYER OF 3/4" CRUSHED STONE WITH 5% TO 12% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER INTERIOR SLAB-ON-GRADE WHERE GROUNDWATER IS WITHIN 3 FEET OF THE SLAB SURFACE - PLACE A DRAINAGE COURSE LAYER OF CLEAN 3/4" CRUSHED STONE WITH NO MORE THAN 5% FINES, PER THICKNESS INDICATED ON FOUNDATION PLANS ON PREPARED SUBGRADE. COMPACT THE SUBGRADE AND DRAINAGE COURSE TO NOT LESS THAN 95 PERCENT.
  - UNDER EXTERIOR CONCRETE AND ASPHALT PAVEMENTS - COMPACT THE SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER WALKWAYS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
  - UNDER LAWN OR UNPAVED AREAS - COMPACT SUBGRADE AND EACH LAYER OF BACKFILL OR FILL MATERIAL TO NOT LESS THAN 95 PERCENT.
- CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO PERFORM FIELD TESTS AND INSPECTIONS. CONTRACTOR SHALL PROVIDE DOCUMENTATION OF PASSING DENSITY TESTING AND PROOF-ROLLING TO ENGINEER UPON COMPLETION. IT IS SUGGESTED THAT THE GEOTECHNICAL FIRM USED TO PERFORM THE SUBSURFACE SOIL INVESTIGATION BE ENGAGED FOR THE FIELD QUALITY CONTROL TESTS.
- ALLOW THE TESTING AGENCY TO TEST AND INSPECT SUBGRADES AND EACH FILL OR BACKFILL LAYER. PROCEED WITH SUBSEQUENT EARTHWORK ONLY AFTER TEST RESULTS FOR PREVIOUSLY COMPLETED WORK COMPLY WITH REQUIREMENTS. PROVIDE ONE TEST FOR EVERY 2000 SQUARE FEET OF PAVED AREA OR BUILDING SLAB, ONE TEST FOR EACH SPREAD FOOTING, AND ONE TEST FOR EVERY 50 LINEAR FEET OF WALL STRIP FOOTING.
- WHEN THE TESTING AGENCY REPORTS THAT SUBGRADES, FILLS, OR BACKFILLS HAVE NOT ACHIEVED DEGREE OF COMPACTION SPECIFIED, SCABBY AND MOISTEN OR AERATE, OR REMOVE AND REPLACE SOIL TO DEPTH REQUIRED; RECOMPACT AND RETEST UNTIL SPECIFIED COMPACTION IS OBTAINED.
- THE BUILDING SITE SHALL BE GRADED TO PROVIDE DRAINAGE AWAY FROM THE BUILDING AS INDICATED ON THE PLANS. SITE EARTHWORK SHALL BE GRADED TO WITHIN 0.1% OF REQUIRED EARTHWORK ELEVATIONS ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE GRADING PLAN.

### 31 30 00 EROSION CONTROL

- THE GRADING PLAN REFLECTS LESS THAN 1 ACRE OF DISTURBED AREA. THE SITE IS THEREFORE EXEMPT FROM WISCONSIN DEPARTMENT OF NATURAL RESOURCES NR 216 NOTICE OF INTENT REQUIREMENTS. THE DESIGN ENGINEER SHALL PREPARE AN EROSION CONTROL PLAN TO MEET NR 151.105 CONSTRUCTION SITE PERFORMANCE STANDARDS FOR NON-PERMITTED SITES.
- EROSION AND SEDIMENT CONTROL IMPLEMENTED DURING CONSTRUCTION SHALL STRICTLY COMPLY WITH THE GUIDELINES AND REQUIREMENTS SET FORTH IN WISCONSIN ADMINISTRATIVE CODE (WA.C.) NR 151. THE STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES RUNOFF MANAGEMENT PERFORMANCE STANDARDS, TECHNICAL STANDARDS PUBLISHED BY THE WISCONSIN DNR SHALL ALSO BE UTILIZED TO IMPLEMENT THE REQUIRED PERFORMANCE STANDARDS. THE METHODS AND TYPES OF EROSION CONTROL WILL BE DEPENDENT ON THE LOCATION AND TYPE OF WORK INVOLVED. ALL SEDIMENT CONTROL MEASURES SHALL BE ADJUSTED TO MEET FIELD CONDITIONS AT THE TIME OF CONSTRUCTION, AND INSTALLED PRIOR TO ANY GRADING OR DISTURBANCE OF EXISTING SURFACE MATERIAL. BELOW IS A LIST OF EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES TO ACHIEVE THE PERFORMANCE STANDARDS REQUIRED.
  - SILT FENCE SHALL BE PLACED ON SITE AT LOCATIONS SHOWN ON THE EROSION CONTROL PLAN. SILT FENCE SHALL ALSO BE PROVIDED AROUND THE PERIMETER OF ALL SOIL STOCKPILES THAT WILL EXIST FOR MORE THAN 7 DAYS. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1056 (CURRENT EDITION).
  - STORM DRAIN INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW AND DOWNSTREAM STORM CATCH BASINS AND CURB INLETS. TYPE B OR C PROTECTION SHOULD BE PROVIDED AND SHALL BE IN CONFORMANCE WITH WISCONSIN DNR TECHNICAL STANDARD 1060 (CURRENT EDITION).
  - DUST CONTROL MEASURES SHALL BE PROVIDED TO REDUCE OR PREVENT THE SURFACE AND AIR TRANSPORT OF DUST DURING CONSTRUCTION. CONTROL MEASURES INCLUDE APPLYING MULCH AND ESTABLISHING VEGETATION, WATER SPRINKLING, SURFACE ROUGHENING, APPLYING POLYMERS, SPRAY-ON TACKIFIERS, CHLORIDES, AND BARBERS. SOME SITES MAY REQUIRE AN APPROACH THAT UTILIZES A COMBINATION OF MEASURES FOR DUST CONTROL. FOLLOW PROCEDURES FOUND IN WISCONSIN DNR TECHNICAL STANDARD 1068 (CURRENT EDITION).
  - THE USE, STORAGE, AND DISPOSAL OF CHEMICALS, CEMENT, AND OTHER COMPOUNDS AND MATERIALS USED ON SITE SHALL BE MANAGED DURING THE CONSTRUCTION PERIOD TO PREVENT THEIR TRANSPORT BY RUNOFF INTO WATERS OF THE STATE.
  - CONTRACTOR SHALL PROVIDE AN OPEN AGGREGATE CONCRETE TRUCK WASHOUT AREA ON SITE. CONTRACTOR TO ENSURE THAT CONCRETE WASHOUT SHALL BE CONTAINED TO THIS DESIGNATED AREA AND NOT BE ALLOWED TO RUN INTO STORM INLETS OR INTO THE OVERLAND STORMWATER DRAINAGE SYSTEM. WASHOUT AREA SHALL BE REMOVED UPON COMPLETION OF CONSTRUCTION.
  - TEMPORARY SITE RESTORATION SHALL TAKE PLACE IN DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH LAND DISTURBING ACTIVITIES WILL NOT BE PERFORMED FOR A PERIOD GREATER THAN 14 DAYS AND REQUIRES VEGETATIVE COVER FOR LESS THAN ONE YEAR. THIS TEMPORARY SITE RESTORATION REQUIREMENT ALSO APPLIES TO SOIL STOCKPILES THAT EXIST FOR MORE THAN 7 DAYS. PERMANENT RESTORATION APPLIES TO AREAS WHERE PERENNIAL VEGETATIVE COVER IS NEEDED TO PERMANENTLY STABILIZE AREAS OF EXPOSED SOIL. PERMANENT STABILIZATION SHALL OCCUR WITHIN 3 WORKING DAYS OF FINAL GRADING. TOPSOIL, SEED, AND MULCH SHALL BE IN GENERAL CONFORMANCE WITH TECHNICAL STANDARDS 1058 AND 1059 AND SHALL MEET THE SPECIFICATIONS FOUND IN THE LANDSCAPING AND SITE STABILIZATION SECTION OF THIS CONSTRUCTION DOCUMENT ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR FINAL STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
  - IF SITE DEWATERING IS REQUIRED FOR PROPOSED CONSTRUCTION ACTIVITIES, ALL SEDIMENT LADEN WATER GENERATED DURING THE DEWATERING PROCESS SHALL BE TREATED TO REMOVE SEDIMENT PRIOR TO DISCHARGING OFF-SITE OR TO WATERS OF THE STATE. FOLLOW ALL PROCEDURES FOUND IN TECHNICAL STANDARD 1061.
  - ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION WORK OR A STORM EVENT SHALL BE CLEANED UP BY THE END OF EACH WORKING DAY. DUST CONTROL REQUIREMENTS SHALL BE FOLLOWED PER WISCONSIN TECHNICAL STANDARD 1068 (CURRENT EDITION). FLUSHING SHALL NOT BE ALLOWED.
- ALL EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY 7 CALENDAR DAYS OR EVERY 14 DAYS AND WITHIN 24 HOURS OF THE END OF A RAIN EVENT OF 0.2" OR MORE. MAINTENANCE SHALL BE PERFORMED PER WISCONSIN ADMINISTRATIVE CODE (WA.C.) NR 151 STORMWATER MANAGEMENT TECHNICAL STANDARD REQUIREMENTS.
- EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE AREA(S) SERVED HAVE ESTABLISHED VEGETATIVE COVER.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL LOCAL EROSION CONTROL PERMITS.

## DIVISION 32 EXTERIOR IMPROVEMENTS

### 32 10 00 CONCRETE AND AGGREGATE BASE

- CONTRACTOR TO PROVIDE CRUSHED AGGREGATE BASE AND CONCRETE WHERE INDICATED ON THE PLANS.
- ALL AGGREGATE PROVIDED MUST COMPLY WITH SECTION 305 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. ALL AGGREGATE PLACED MUST BE COMPACTED TO AN AVERAGE DENSITY PER WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- DESIGN AND CONSTRUCTION OF ALL CAST-IN-PLACE EXTERIOR CONCRETE FLAT WORK SHALL CONFORM TO ACI 308R-08 & ACI 318-11.
- EXTERIOR CONCRETE FLAT WORK CONSTRUCTION TO BE PROVIDED PER MORE STRINGENT REQUIREMENTS OF THE GEOTECHNICAL REPORT OR THIS SPECIFICATION. CONCRETE FLAT WORK CONSTRUCTION IS AS FOLLOWS:
  - SIDEWALK CONCRETE - 4" OF CONCRETE OVER 4" OF 3/4" CRUSHED AGGREGATE BASE. CONSTRUCTION JOINTS SHALL CONSIST OF 1/8" WIDE BY 1" DEEP TOOLED JOINT WHERE INDICATED ON THE PLANS.
  - DESIGN MIXES SHALL BE IN ACCORDANCE WITH ASTM C94
  - STRENGTH TO BE MINIMUM OF 4,500 PSI AT 28 DAYS FOR EXTERIOR CONCRETE.
  - SLUMP SHALL BE BETWEEN 1.5' TO 3" FOR NON-SLIP-FORMED CURB AND GUTTER.
  - SLUMP SHALL NOT EXCEED 4" FOR EXTERIOR CONCRETE FLAT WORK
  - SLUMP SHALL BE 2.5" OR LESS FOR SLIP-FORMED CURB AND GUTTER.
  - ALL EXTERIOR CONCRETE SHALL BE AIR ENTRAINED WITH 4% TO 7% AIR CONTENT. NO OTHER ADMIXTURES SHALL BE USED WITHOUT APPROVAL OF EXCEL ENGINEERING, INC. CALCIUM CHLORIDE SHALL NOT BE USED.
  - MAXIMUM AGGREGATE SIZE FOR ALL EXTERIOR CONCRETE SHALL BE 0.75 INCHES.
  - VERIFY EQUIPMENT CONCRETE PAD SIZES WITH CONTRACTOR REQUIRING PAD. PADS SHALL HAVE FIBERESH 300 FIBERS AT A RATE OF 1.5 LB/CU. YD. OR 6 X 6 X 41 X X W/1 A WELDED WIRE MESH WITH MINIMUM 1 INCH COVER. EQUIPMENT PADS SHALL BE 5.5 INCHES THICK WITH 1 INCH CHAMFER UNLESS SPECIFIED OTHERWISE. CONCRETE SHALL BE PROVIDED ON 4" OF 3/4" CRUSHED AGGREGATE BASE. COORDINATE ADDITIONAL PAD REQUIREMENTS WITH RESPECTIVE CONTRACTOR.
  - ALL PERMANENT AND TEMPORARY STORM WATER CONCRETE SHALL BE CONSTRUCTED TO WITHIN 0.05' OF DESIGN SURFACE AND FLOWING GRADES ASSUMING POSITIVE DRAINAGE IS MAINTAINED IN ACCORDANCE WITH THE DESIGN PLANS.
  - CONCRETE FLAT WORK SHALL HAVE CONSTRUCTION JOINTS OR SAW CUT JOINTS PLACED AS INDICATED ON THE PLANS OR PER THIS SPECIFICATION. SAWCUTS SHALL BE DONE AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER CONCRETE IS PLACED. CONCRETE CURB AND GUTTER JOINTING SHALL BE PLACED EVERY 10' OR CLOSER (6" MIN). IF CONCRETE PAVEMENT IS ADJACENT TO CONCRETE CURB JOINTING IN THE PAVEMENT AND CURB SHALL ALIGN. ALL EXTERIOR CONCRETE SHALL HAVE A BROOM FINISH UNLESS NOTED OTHERWISE. A UNIFORM COAT OF A HIGH SOLIDS CURING COMPOUND MEETING ASTM C109 SHALL BE APPLIED TO ALL EXPOSED CONCRETE SURFACES. ALL CONCRETE IS TO BE CURED FOR 7 DAYS. EXTERIOR CONCRETE SHALL BE SEPARATED FROM BUILDINGS WITH CONTINUOUS 0.5 INCH FIBER EXPANSION JOINT AND/OR 0.25 INCH FIBER EXPANSION JOINT AT DECORATIVE MASONRY UNITS.
  - ALL REINFORCING BARS SHALL BE ASTM A615 GRADE 60. THICKNESS OF CONCRETE COVER OVER REINFORCEMENT SHALL BE NOT LESS THAN 3" WHERE CONCRETE IS DEPOSITED AGAINST THE GROUND WITHOUT THE USE OF FORMS AND NOT LESS THAN 1.5" FOR UP TO #5 BARS AND 2" FOR #6 TO #10 BARS IN ALL OTHER LOCATIONS. ALL REINFORCING SHALL BE LAPPED 48 DIAMETERS FOR UP TO #6 BARS, 62 DIAMETERS FOR #7 TO #9 BARS, 68 DIAMETERS FOR #10 BARS OR AS NOTED ON THE DRAWINGS AND EXTENDED AROUND CORNERS WITH CORNER BARS. PLACING AND DETAILING OF STEEL REINFORCING AND REINFORCING SUPPORTS SHALL BE IN ACCORDANCE WITH CRSI AND ACI MANUAL AND STANDARD PRACTICES. THE REINFORCEMENT SHALL NOT BE PAINTED AND MUST BE FREE OF GREASE/OIL, DIRT OR DEEP RUST WHEN PLACED IN THE WORK. ALL WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A 1064. WELDED WIRE FABRIC SHALL BE PLACED 2" FROM TOP OF SLAB UNLESS INDICATED OTHERWISE.
  - CONTRACTOR SHALL ENGAGE A QUALIFIED INDEPENDENT TESTING AND INSPECTING AGENCY TO SAMPLE MATERIALS, PERFORM TESTS, AND SUBMIT TEST REPORTS DURING CONCRETE PLACEMENT. TESTS WILL BE PERFORMED ACCORDING TO ACI 301, CAST AND LABORATORY CURE ONE SET OF FOUR STANDARD CYLINDERS FOR EACH COMPOSITE SAMPLE FOR EACH DAY'S POUR OR EACH CONCRETE MIX EXCEEDING 5 CU. YD. BUT LESS THAN 25 CU. YD. PLUS ONE SET FOR EACH ADDITIONAL 50 CU. YD. OR FRACTION THEREOF. PERFORM COMPRESSIVE STRENGTH TESTS ACCORDING TO ASTM C 39. TEST TWO SPECIMENS AT 7 DAYS AND TWO SPECIMENS AT 28 DAYS. PERFORM SLUMP TESTING ACCORDING TO ASTM C 143. PROVIDE ONE TEST AT POINT OF PLACEMENT FOR EACH COMPOSITE SAMPLE, BUT NOT LESS THAN ONE TEST FOR EACH DAY'S POUR OF EACH CONCRETE MIX. PERFORM ADDITIONAL TESTS WHEN CONCRETE CONSISTENCY APPEARS TO CHANGE.
  - PROTECT FRESHLY PLACED CONCRETE FROM PREMATURE DRYING AND EXCESSIVE COLD OR HOT TEMPERATURES. IN HOT, DRY, AND WINDY WEATHER, APPLY AN EVAPORATION CONTROL COMPOUND ACCORDING TO MANUFACTURER'S INSTRUCTIONS AFTER SCREEDING AND BULL FLOATING, BUT BEFORE POWER FLOATING AND TROWELLING.
  - LIMIT MAXIMUM WATER-CEMENTITIOUS RATIO OF CONCRETE EXPOSED TO FREEZING, THAWING AND DEICING SALTS TO 0.45.
  - TEST RESULTS WILL BE REPORTED IN WRITING TO THE DESIGN ENGINEER, READY-MIX PRODUCER, AND CONTRACTOR WITHIN 24 HOURS AFTER TESTS. REPORTS OF COMPRESSIVE STRENGTH TESTS SHALL CONTAIN THE PROJECT IDENTIFICATION NAME AND NUMBER, DATE OF CONCRETE PLACEMENT, NAME OF CONCRETE TESTING SERVICE, CONCRETE TYPE AND CLASS, LOCATION OF CONCRETE BATCH ON SITE, DESIGN COMPRESSIVE STRENGTH AT 28 DAYS, CONCRETE MIX PROPORTIONS AND MATERIALS, COMPRESSIVE BREAKING STRENGTH, AND TYPE OF BREAK FOR BOTH 7-DAY TESTS AND 28-DAY TESTS.
  - CONTRACTOR TO PROVIDE 4" WIDE YELLOW PAINTED STRIPING FOR PARKING STALLS, TRAFFIC LANES, AND NO PARKING AREAS. YELLOW PAINT MARKINGS SHALL ALSO BE PROVIDED FOR I.C. ACCESSIBLE SYMBOLS, TRAFFIC ARROWS, AND TRAFFIC MESSAGES.

### 32 30 00 LANDSCAPING AND SITE STABILIZATION

- TOPSOIL CONTRACTOR TO PROVIDE A MINIMUM OF 6" OF TOPSOIL FOR ALL DISTURBED OPEN AREAS, OTHER THAN LANDSCAPE ISLANDS SHALL BE PROVIDED WITH A MINIMUM OF 10" OF TOPSOIL. REUSE SURFACE SOIL STOCKPILED ON SITE AND SUPPLEMENT WITH IMPORTED OR MANUFACTURED TOPSOIL FROM OFF-SITE SOURCES WHEN QUANTITIES ARE INSUFFICIENT. EXCAVATOR SHALL BE RESPONSIBLE FOR ROUGH PLACEMENT OF TOPSOIL TO WITHIN 1" OF FINAL GRADE PRIOR TO LANDSCAPER FINAL GRADING. LANDSCAPER TO PROVIDE MULCHING AND FINAL GRADING OF TOPSOIL. PROVIDE SOIL ANALYSIS BY A QUALIFIED SOIL TESTING LABORATORY AS REQUIRED TO VERIFY THE SUITABILITY OF SOIL TO BE USED AS TOPSOIL AND TO DETERMINE THE NECESSARY SOIL AMENDMENTS. TEST SOIL FOR PRESENCE OF ARBACINE AND INFORM EXCEL ENGINEERING, INC. IF PRESENT PRIOR TO BIDDING PROJECT. TOPSOIL SHALL HAVE A PH RANGE OF 5.5 TO 8, CONTAIN A MINIMUM OF 5 PERCENT ORGANIC MATERIAL CONTENT, AND SHALL BE FREE OF STONES 1 INCH OR LARGER IN DIAMETER. ALL MATERIALS HARMFUL TO PLANT GROWTH SHALL ALSO BE REMOVED.
- TOPSOIL INSTALLATION: LOOSEN SUBGRADE TO A MINIMUM DEPTH OF 6 INCHES AND REMOVE STONES LARGER THAN 1" IN DIAMETER. ALSO REMOVE ANY STICKS, ROOTS, RUBBISH, AND OTHER EXTRANEOUS MATTER AND DISPOSE OF THEM OFF THE PROPERTY. SPREAD TOPSOIL TO A DEPTH OF 6" BUT NOT LESS THAN WHAT IS REQUIRED TO MEET FINISHED GRADES AFTER LIGHT ROLLING AND NATURAL SETTLEMENT. DO NOT SPREAD TOPSOIL IF SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET. GRADE PLANTING AREAS TO A SMOOTH UNIFORM SURFACE PLANE WITH LOOSE UNIFORM FIN TEXTURE. GRADE TO WITHIN 0.05 FEET OF FINISHED GRADE ELEVATION.
- SEEDING LAWNS:
  - PERMANENT LAWN AREAS SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 65% KENTUCKY BLUEGRASS BLEND (2.0-2.6 LBS./1,000 S.F.), 20% PERENNIAL RYEGRASS (0.6-0.8 LBS./1,000 S.F.), 15% FINE FESCUE (0.4-0.6 LBS./1,000 S.F.), STRAW AND MULCH SHALL BE LAID AT 100 LB./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. ALL SITE DISTURBED AREAS NOT DESIGNATED FOR OTHER LANDSCAPING AND SITE STABILIZATION METHODS SHALL BE SEEDDED AS PERMANENT LAWN. NO BARE TOPSOIL SHALL BE LEFT UNSEED. FOLLOW PROCEDURES FOUND IN WISCONSIN TECHNICAL STANDARDS 1058 & 1059.
  - ALL PERMANENT AND TEMPORARY STORM WATER CONCRETE SWALE BOTTOMS AND SIDE SLOPES SHALL BE SEEDDED WITH THE FOLLOWING MIXTURE: 45% KENTUCKY BLUEGRASS (0.8-1.0 LBS./1,000 S.F.), 40% CREeping RED FESCUE (0.50 LBS./1,000 S.F.), AND 15% PERENNIAL RYEGRASS (0.20 LBS./1,000 S.F.). FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WISCONSIN TECHNICAL STANDARDS 1058 & 1059.
  - ALL TEMPORARY SEEDING SHALL CONSIST OF THE FOLLOWING MIXTURE: 100% RYEGRASS AT 19 LBS./1,000 S.F. STRAW AND MULCH SHALL BE LAID AT 100 LBS./1,000 S.F. FERTILIZE AS PER SOIL TEST OR APPLY 5-10-10 OR EQUIVALENT AT 5-6 LBS./1,000 S.F. SEE EROSION MATTING SPECIFICATIONS AS REQUIRED. FOLLOW PROCEDURES FOUND IN WISCONSIN TECHNICAL STANDARDS 1058 & 1059.
- SEEDING LAWN MAINTENANCE: CONTRACTOR TO PROVIDE MAINTENANCE OF ALL LANDSCAPING FOR A PERIOD OF 90 DAYS FROM THE DATE OF INSTALLATION. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY UNIFORM CLOSE STAND OF GRASS SHOULD BE ESTABLISHED FREE OF WEEDS AND SURFACE IRREGULARITIES. LAWN COVERAGE SHOULD EXCEED 90% AND BARE SPOTS SHOULD NOT EXCEED 5%.
- CONTRACTOR SHOULD REESTABLISH LAWNS THAT DO NOT COMPLY WITH THESE REQUIREMENTS AND CONTINUE MAINTENANCE UNTIL LAWNS ARE SATISFACTORY.
- EROSION MATTING:
  - CONTRACTOR TO PROVIDE EROSION CONTROL MATTING (NORTH AMERICAN GREEN S150) OR EQUIVALENT ON ALL SLOPES THAT ARE 4:1 AND GREATER. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
  - CONTRACTOR TO PROVIDE EROSION MATTING (NORTH AMERICAN GREEN C125) OR EQUIVALENT IN SWALE BOTTOMS AND SIDE SLOPES AS REQUIRED. LAWN SEED SHALL BE PLACED BELOW MATTING IN ACCORDANCE WITH SEEDING REQUIREMENTS AND MANUFACTURER SPECIFICATIONS.
- ORGANIC MULCH: PROVIDE 3" MINIMUM THICK BLANKET OF SHREDED HARDWOOD MULCH AT ALL PLANTING AREAS INDICATED ON THE LANDSCAPE PLAN. INSTALL OVER NON-WOVEN WEED BARRIER FABRIC. COLOR BY OWNER.
- PLASTIC EDGING: INSTALL VALLEY VIEW INDUSTRIES BLACK DIAMOND LAMIN EDGING TO SEPARATE ALL PLANTING BEDS FROM LAWN AREAS. EDGING TO BE 5.5" TALL WITH METAL STAKES INSTALLED PER MANUFACTURER'S WRITTEN INSTRUCTIONS.

## DIVISION 33 UTILITIES

### 33 10 00 SITE UTILITIES

- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES ON SITE. CONTRACTOR TO VERIFY PIPE LOCATIONS, SIZES, AND DEPTHS AT POINT OF PROPOSED CONNECTIONS AND VERIFY PROPOSED UTILITY ROUTES ARE CLEAR PER CODE OF ALL EXISTING UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO CONSTRUCTION. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTORS RESPONSIBILITY.
- CONTRACTOR TO FIELD TELETYPE ALL EXISTING STORM LATERALS THAT ARE SCHEDULED TO BE RE-USED AND/OR CONNECTED TO ON SITE. THE TELETYPE SHALL BE COMPLETED TO ENSURE THE EXISTING LATERALS ARE FREE OF OBSTRUCTIONS AND IN SOUND STRUCTURAL CONDITION. TELETYPE OF THESE LATERALS SHOULD BE COMPLETED AT BEGINNING OF CONSTRUCTION AND DESIGN ENGINEER SHALL BE NOTIFIED OF ANY PIPE OBSTRUCTIONS AND/OR STRUCTURAL DEFICIENCIES IMMEDIATELY AFTER COMPLETION OF FIELD TELETYPE.
- CLEANOUTS SHALL BE PROVIDED FOR THE STORM SERVICE AT LOCATIONS INDICATED ON THE UTILITY PLAN. THE CLEANOUT SHALL CONSIST OF A COMBINATION WYE FITTING IN LINE WITH THE SANITARY/STORM SERVICE WITH THE CLEANOUT LEG OF THE COMBINATION WYE FACING STRAIGHT UP. THE CLEANOUT SHALL CONSIST OF A (4" OR 6") VERTICAL PVC PIPE WITH A WATER TIGHT REMOVABLE CLEANOUT PLUG. AN 8" PVC FROST SLEEVE SHALL BE PROVIDED. THE BOTTOM OF THE FROST SLEEVE SHALL TERMINATE 12" ABOVE THE TOP OF THE SANITARY LATERAL OR AT LEAST 6" BELOW THE PREDICTED FROST DEPTH, WHICHEVER IS SHALLOWER. THE CLEANOUT SHALL EXTEND JUST ABOVE THE SURFACE GRADE IN LAWN OR LANDSCAPE AREAS WITH THE FROST SLEEVE TERMINATING AT THE GRADE SURFACE. THE CLEANOUT SHALL EXTEND TO 4 INCHES BELOW SURFACE GRADE IN PAVED SURFACES WITH A 2URB (2"-1/4" H) HEAVY DUTY CLEANOUT HOUSING PLACED OVER THE TOP OF THE CLEANOUT FLUSH WITH THE SURFACE GRADE IN PAVED SURFACES. THE FROST SLEEVE SHALL TERMINATE IN A CONCRETE PAD AT LEAST 6" THICK AND EXTENDING AT LEAST 9" FROM THE SLEEVE ON ALL SIDES, SLOPING AWAY FROM THE SLEEVE. THE CLEANOUT HOUSING SHALL BE CONSTRUCTED PER MANUFACTURER REQUIREMENTS.
- ALL PROPOSED STORM PIPE SHALL BE IN ACCORDANCE WITH MATERIALS SPECIFIED IN TABLE A. ALLOWABLE PIPE MATERIAL SCHEDULE. 6" MINIMUM COVER SHALL BE PROVIDED OVER ALL WATER PIPING UNLESS OTHERWISE SPECIFIED.
- ALLOWABLE PIPE MATERIAL SCHEDULE: SEE UTILITY PLANS FOR ALL STORM PIPE MATERIAL TYPES TO BE USED. PIPE SHALL BE PLACED MIN. 8" HORIZONTALLY FROM FOUNDATION WALLS.
- STORM AND WATER UTILITY PIPE INVERTS SHALL BE CONSTRUCTED WITHIN 0.10' OF DESIGN INVERT ELEVATIONS ASSUMING PIPE SLOPE AND SEPARATION IS MAINTAINED PER THE UTILITY DESIGN PLANS AND STATE REQUIREMENTS.
- SITE UTILITY CONTRACTOR SHALL RUN STORM SEWER FOR INTERNALLY DRAINING BUILDINGS TO A POINT WHICH IS A MAXIMUM OF 5' FROM THE EXTERIOR WALL OF THE FOUNDATION. SITE UTILITY CONTRACTOR SHALL RUN DOWNSPOUT LEADS TO BUILDING FOUNDATION AND UP 4" ABOVE SURFACE GRADE FOR CONNECTION TO DOWNSPOUT FOR ALL DOWNSPOUT TO RISER (DSR) CONNECTIONS. DOWNSPOUTS TO GRADE (DGG) SHALL BE PROVIDED WITH SPLASH BLOCKS AT THE DISCHARGE LOCATION. ALL DOWNSPOUT LOCATIONS SHOULD BE VERIFIED WITH ARCHITECTURAL PLANS AND DOWNSPOUT CONTRACTOR/GENC PRIOR TO INSTALLATION OF DOWNSPOUT LEADS. DOWNSPOUT LEADS SHALL NOT UNDERMINE BUILDING FOUNDATIONS. SITE UTILITY CONTRACTOR SHALL RUN WATER SERVICE TO A POINT WITHIN THE FOUNDATION SPECIFIED BY THE PLUMBING PLANS. CONTRACTOR TO CUT AND CAP WATER SERVICE 12" ABOVE FINISHED FLOOR ELEVATION.
- ALL UTILITIES SHALL BE INSTALLED WITH PLASTIC COATED TRACER WIRE (10 TO 14 GAUGE SOLID COPPER OR COPPER COATED STEEL WIRE). PLASTIC WIRE MAY BE TAPE TO PLASTIC WATER OR SEWER PIPE, IF ATTACHED. THE TRACER WIRE SHALL BE SECURED EVERY 6 TO 20 FEET AND AT ALL BENDS. TRACER WIRE SHALL HAVE ACCESS POINTS AT LEAST EVERY 300 FEET. TRACER WIRE SHALL TERMINATE IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AT GRADE OR IN TERMINATION BOX PER LOCAL/STATE REQUIREMENTS.
- ALL UTILITIES SHALL BE INSTALLED PER STATE, LOCAL, AND INDUSTRY STANDARDS. WATER, SANITARY, AND STORM SEWER SHALL BE INSTALLED PER STANDARD SPECIFICATION FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN. THE EXCEL ENGINEERING DESIGN ENGINEER SHALL BE RESPONSIBLE FOR OBTAINING STATE PLUMBING REVIEW APPROVAL, IF REQUIRED. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL OTHER PERMITS REQUIRED TO INSTALL WATER, SANITARY AND STORM SEWER.
- SEE PLANS FOR ALL OTHER UTILITY SPECIFICATIONS AND DETAILS.



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100 Camelot Drive  
Fond du Lac, WI 54935  
920-926-9800  
excelengineer.com

COLLABORATION



PROJECT INFORMATION

PROPOSED RENOVATION FOR:  
**LIVING HOPE CHURCH**  
1337 S. 100TH STREET • WEST ALLIS, WI 53214

PROFESSIONAL SEAL

PRELIMINARY DATES

MAY 26, 2026

JOB NUMBER

250051500

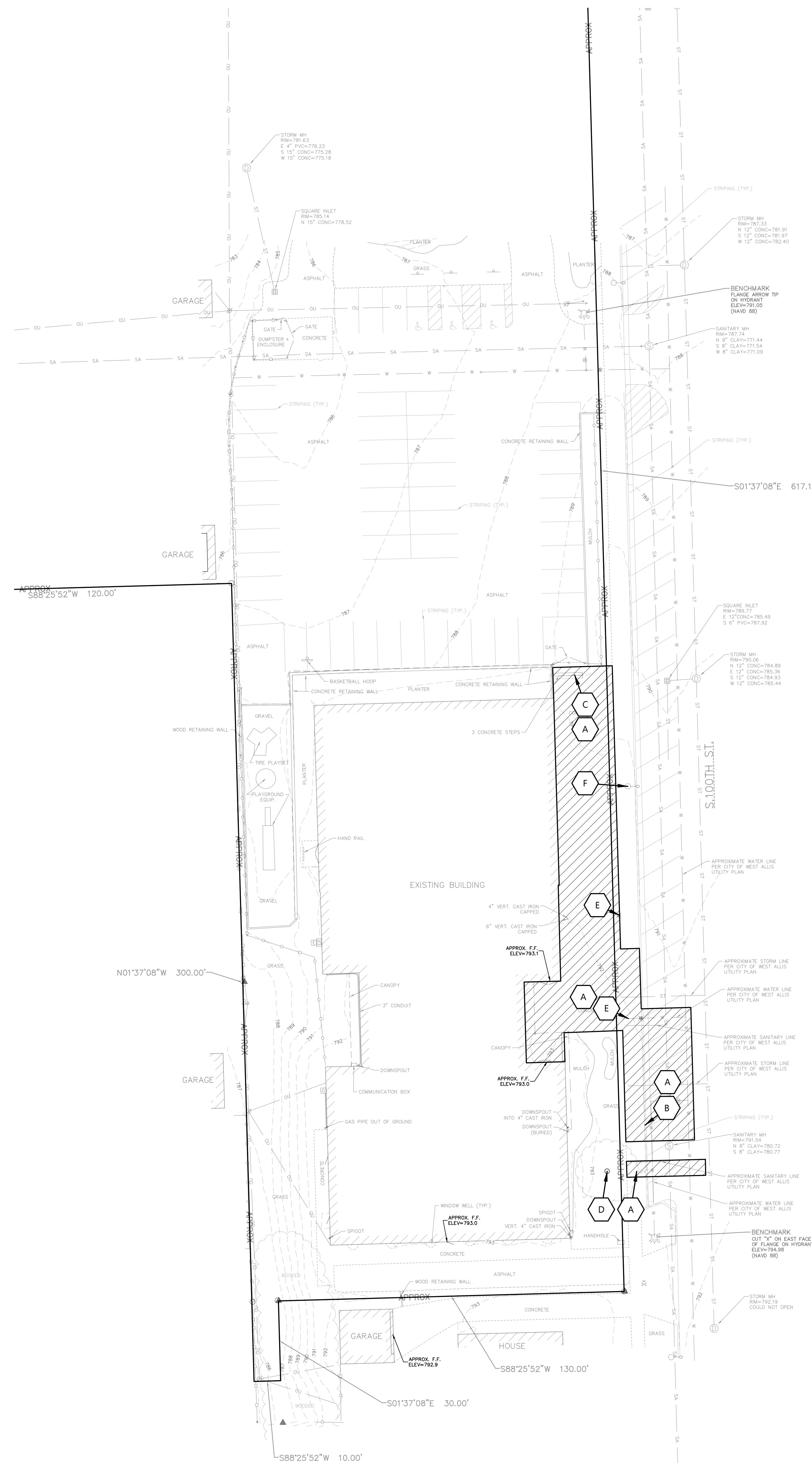
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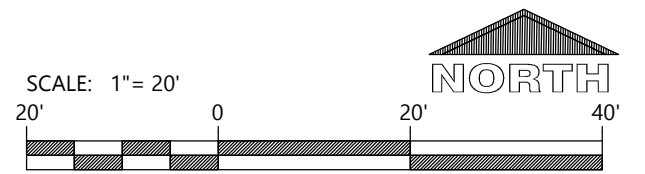
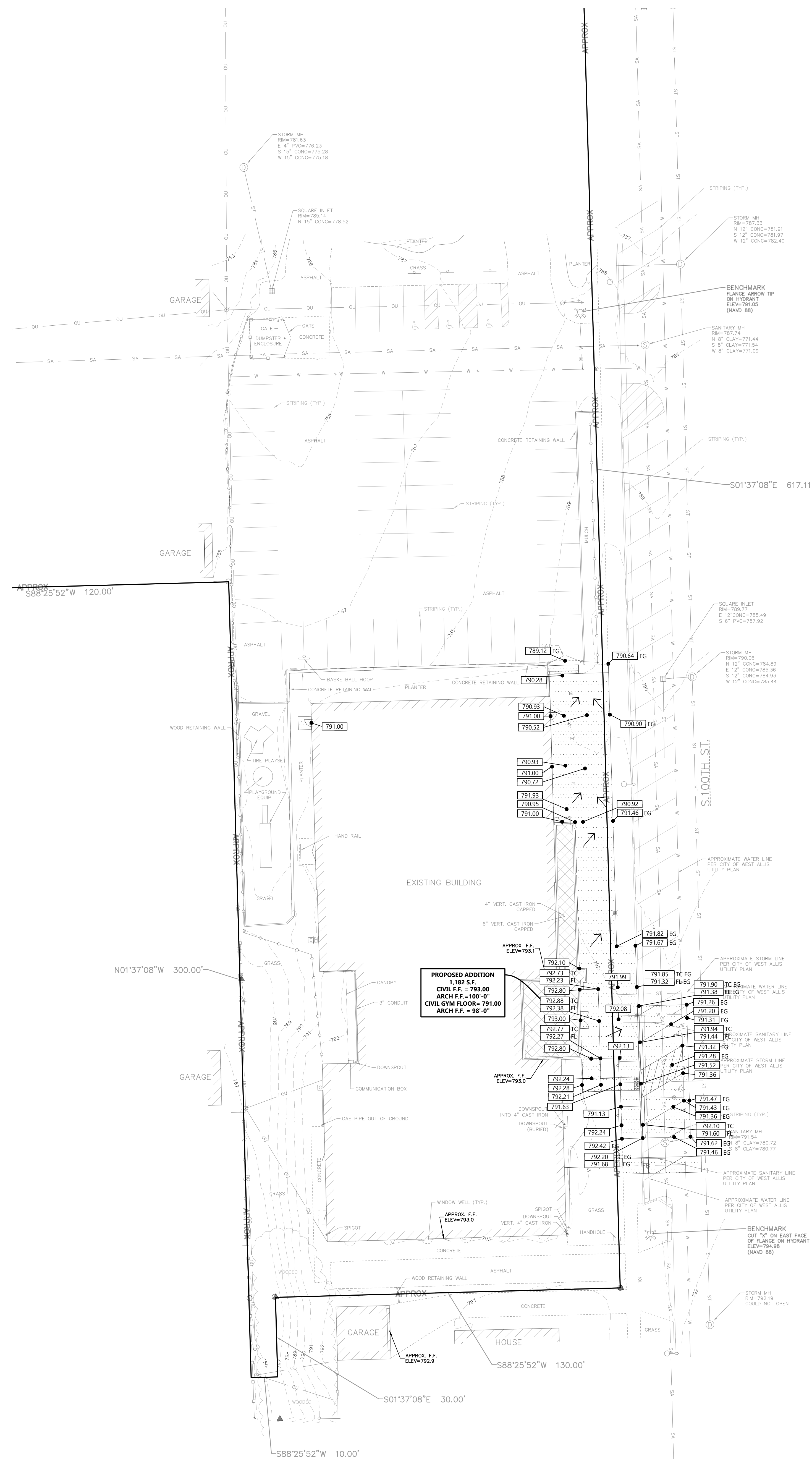
TABLE A: ALLOWABLE PIPE MATERIAL SCHEDULE

Utility	Material	Pipe Code	Fitting Code	Joint Code
Combined Domestic/Fire Service	C900 PVC	AWWA C900, ASTM D1785, ASTM D2421	AWWA C110, AWWA C153, ASTM D2464, ASTM D2466, ASTM D2467, ASTM D311, ASTM F409, ASTM F1336, ASTM F1866	Joint: ASTM D3139 Integral Bell & Spigot Elastomeric Seal: ASTM F477



KEYNOTES	
A	SAWCUT AND REMOVE PAVEMENT
B	SAWCUT AND REMOVE CURB & GUTTER
C	SAWCUT AND REMOVE STAIRS
D	REMOVE TREE
E	CAP AND ABANDON EXISTING WATER LATERALS IN PLACE PER CITY STANDARDS
F	PROTECT





PROJECT INFORMATION

PROPOSED RENOVATION FOR:  
**LIVING HOPE CHURCH**  
 1337 S. 100TH STREET • WEST ALLIS, WI 53214

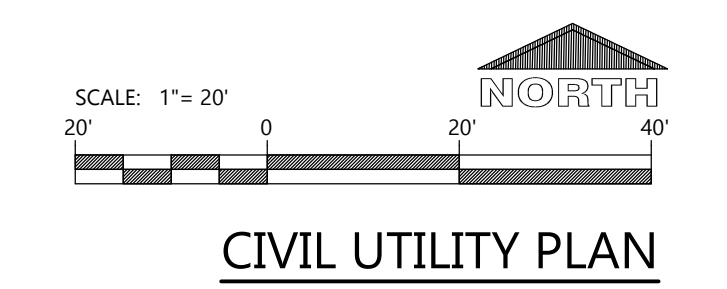
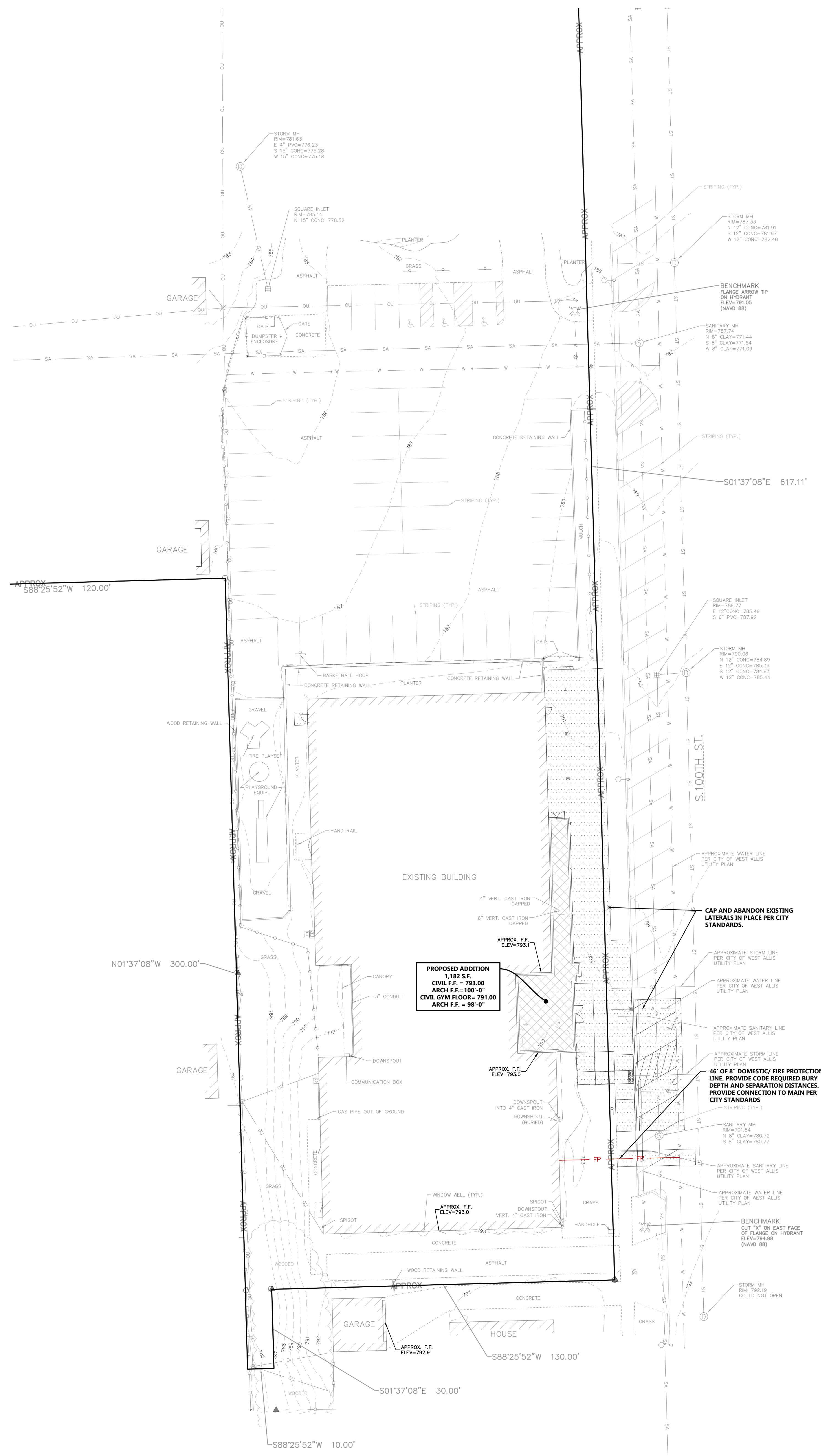
PROFESSIONAL SEAL

PRELIMINARY DATES  
 MAY 26, 2026

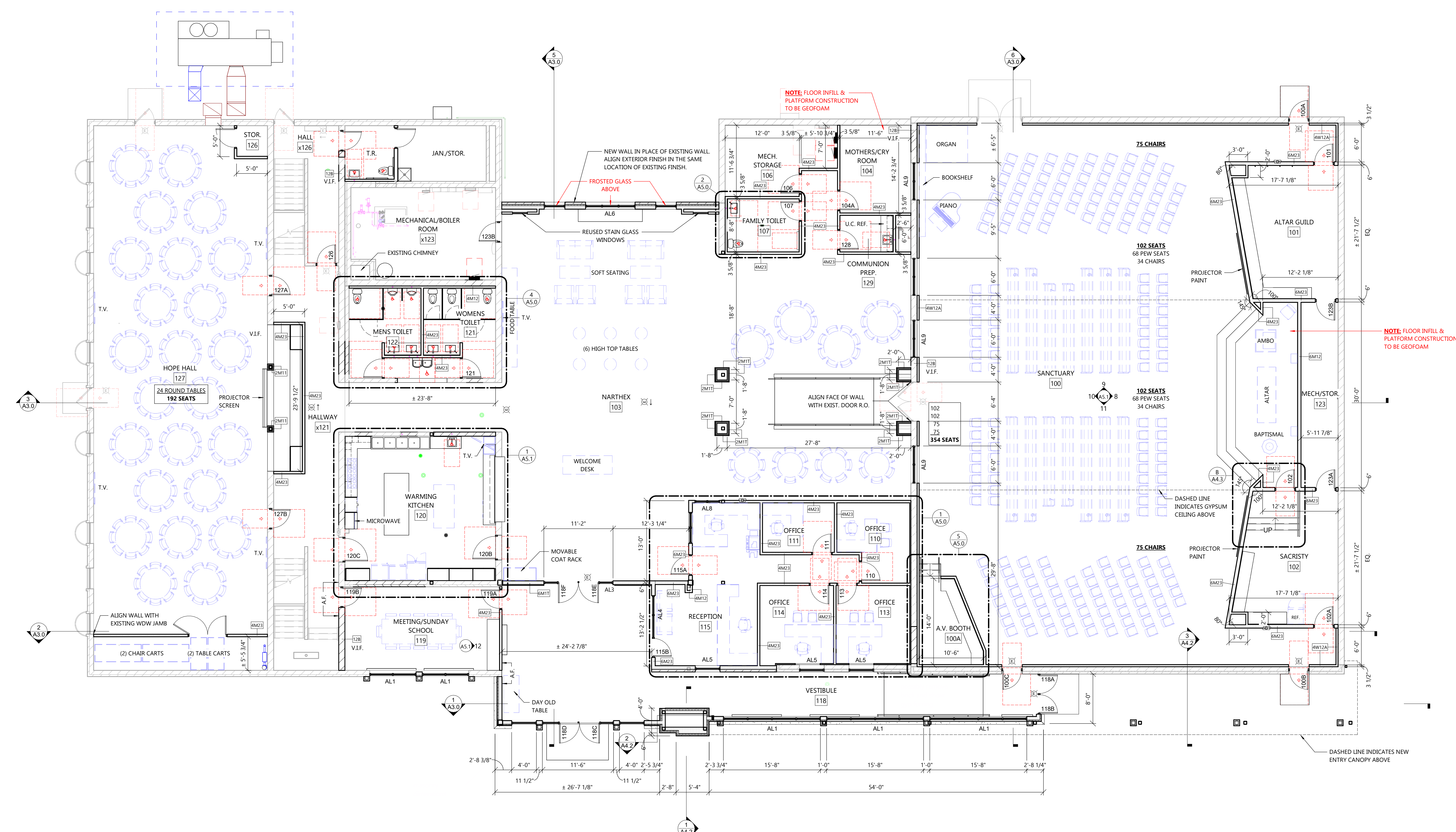
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SHEET NUMBER  
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CIVIL UTILITY PLAN



**FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"  
 0' 8' 16'

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EXTERIOR MATERIAL KEY	
	<b>EIFS</b> TEXTURE: XXX COLOR: XXX
	<b>STONE VENEER</b> MFR: BUECHEL STONE COLOR: XXX
	<b>BRICK VENEER</b> SEE MASONRY VENEER SPEC
	<b>PREFIN. METAL TRIM</b> MFR: PAC-CLAD COLOR: XXX
	<b>ENGINEERED WOOD TRIM</b> MFR: LP SMARTSIDE COLOR: XXX FINISH: SMOOTH OR CEDAR TEXTURED
	<b>CAST STONE SILL</b> MFR: STONECAST COLOR: XXX

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COLLABORATION  
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CONSTRUCTION

**PROJECT INFORMATION**

PROPOSED RENOVATION FOR:  
**LIVING HOPE CHURCH**  
1337 S. 100TH STREET • WEST ALLIS, WI 53214

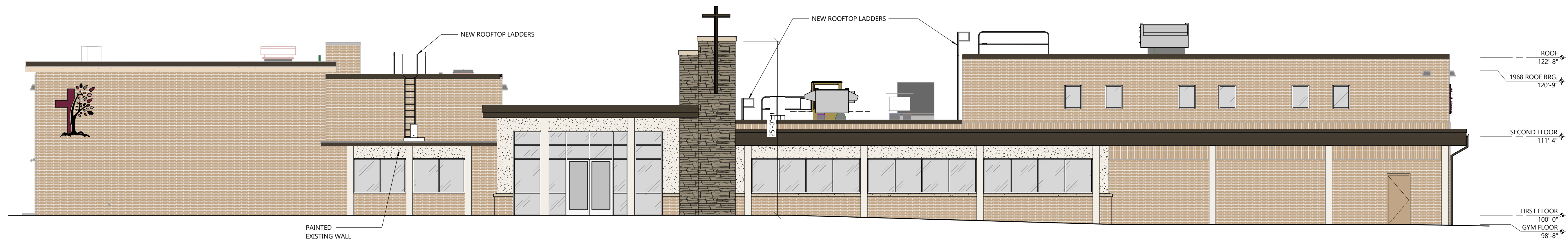
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PRELIMINARY DATES
FEB. 17, 2026
APRIL 30, 2026
MAY 26, 2026

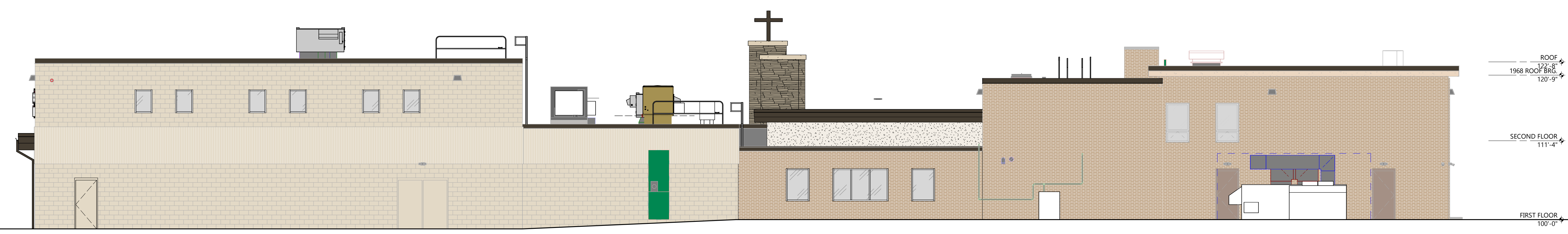
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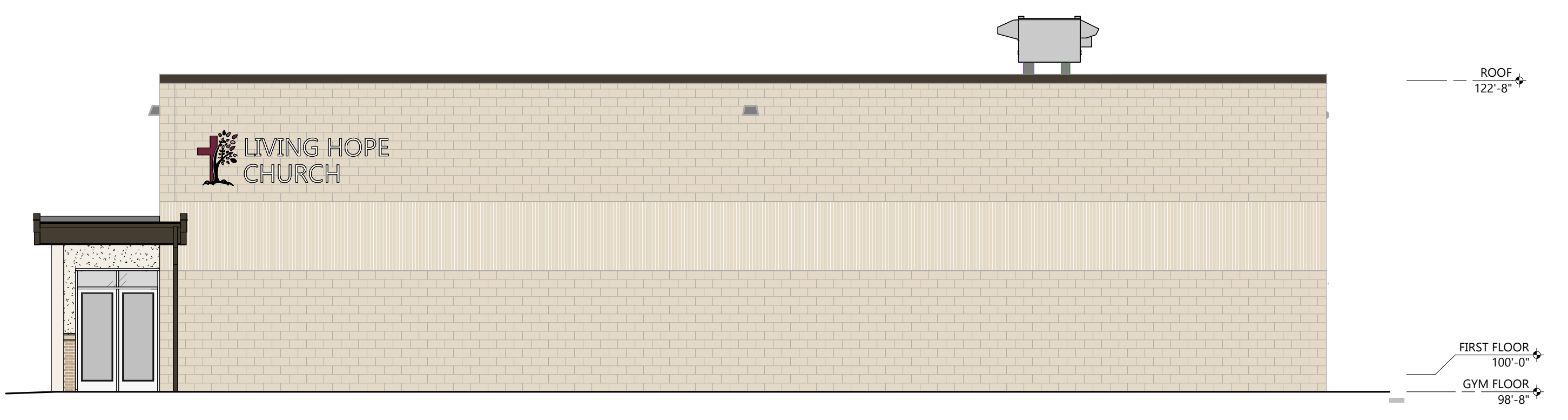
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1 EAST ELEVATION  
SCALE: 1/8" = 1'-0"



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



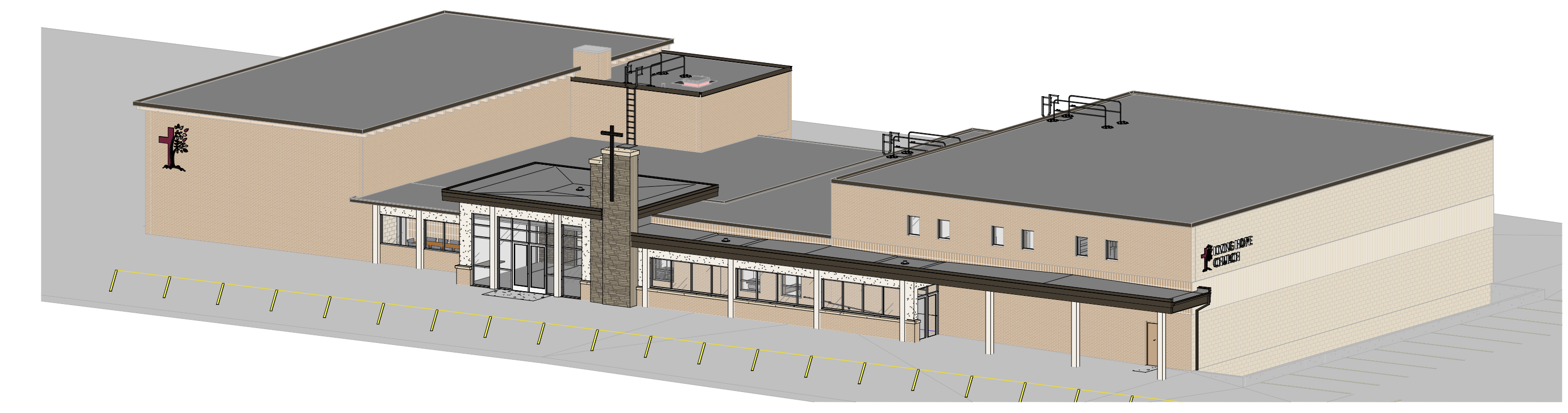
3 NORTH ELEVATION  
SCALE: 1/8" = 1'-0"



AERIAL PERSPECTIVE LOOKING NORTH/WEST



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



AERIAL PERSPECTIVE LOOKING SOUTH/WEST



**STAFF REPORT**  
**WEST ALLIS PLAN COMMISSION**  
**Wednesday, June 24, 2026**  
**Room 128, 6:00 PM**

Watch: <https://www.youtube.com/user/westalliscitychannel>

**4. Site, Landscaping, and Architectural Design Review for Kwik Trip an existing Fuel Service Use at 10923 W LAPHAM ST. (Tax Key: 448-9979-014).**

**Overview and Zoning**

[Kwik Trip](#) is proposing four electric vehicle charging stations on the west side of their property. This represents a site change to the plans approved in October of 2018, when Kwik Trips plans to demolish a old AMF Bowling Alley to develop their current site for a fuel station and store along with a car wash on the abutting property to the east fronting Hwy 100. Fuel stations are considered conditional uses and Kwik Trip was approved for their conditional use in 2018. The proposed EV charging stations represents a site modification and not a change in use, therefore the Plan Commission is tasked with reviewing the site, landscaping and design plans for the proposed updates.

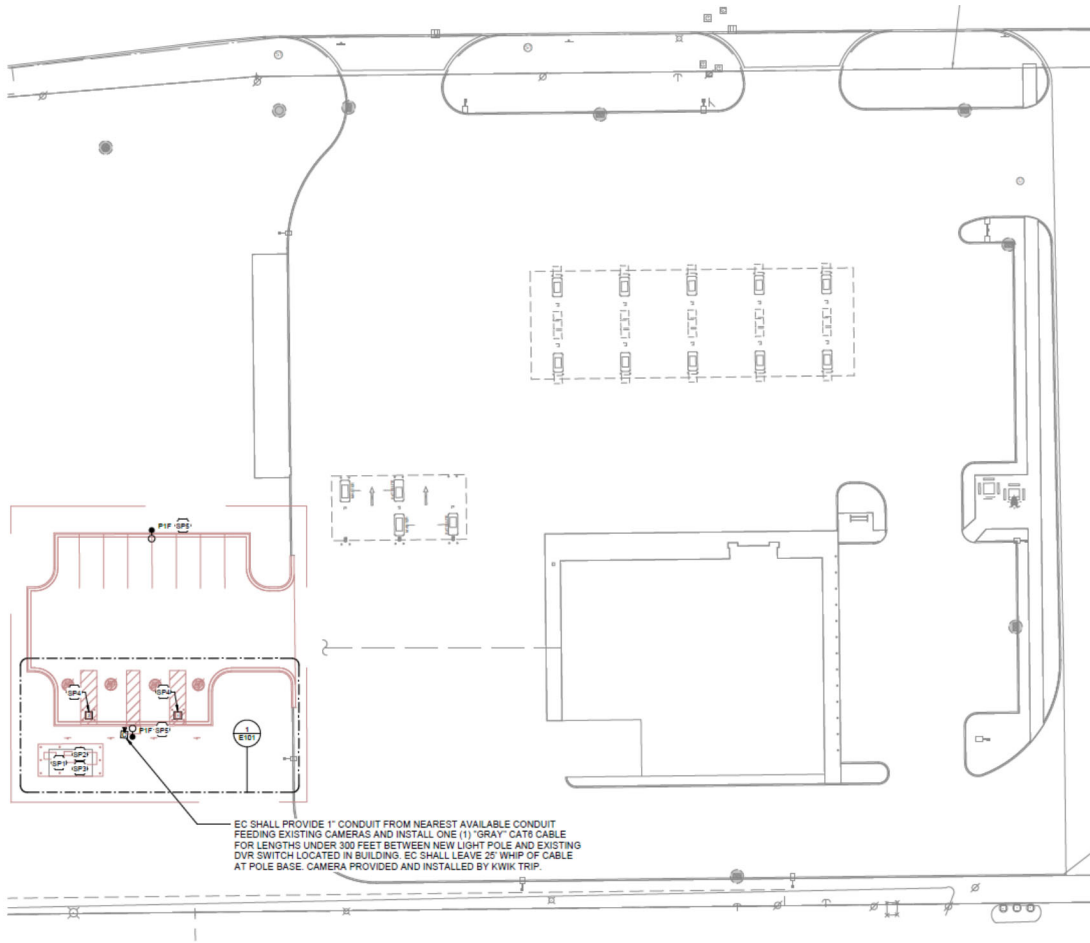


The property is zoned C-3 commercial and the existing use will remain a convenience store and fuel gas station (now with some charging ports).

The project scope includes a 17,825 square feet proposed area of disturbance with an addition of 5,140 square feet of new impervious for the parking lot of 12 total parking stalls. Of these 12 parking stalls, 4 are designated for future EV charging stalls. This project will include 18” curb and gutter, curb cut and paint stripping with color to match parking stall striping.

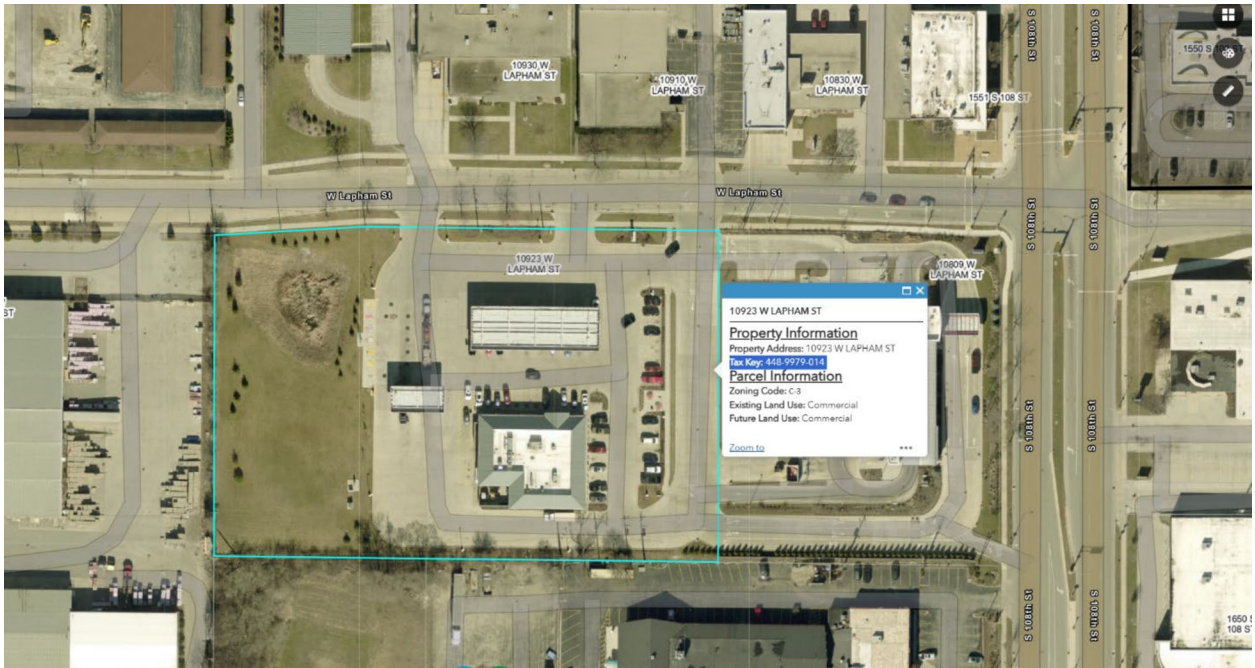
The proposed project will have an estimated completion date of November 1, 2026. Hours of operation are remain unchanged per their 2018 conditional use at 24 hours a day, seven days a week.

**EV Charging** - Kwik Trip has rolled out [rapid charging across several Midwest locations](#), with more sites actively under construction (for example West Allis/store #1047). Operational and developing sites include: Ashland, WI: 316 East Lake Shore Drive (Store #110), Chippewa Falls, WI: 2884 128th St (Chipa Crossing), La Crosse, WI: 3020 Market Place (Store #762), Menomonie, WI: 2411 Oak Avenue (Store #593), Mount Horeb, WI: 9255 Ridgeview Rd (Store #1130), West Salem, WI: 1100 US-16 (Store #1048)



**ELECTRICAL SITE PLAN**  
 SCALE: 1" = 20'-0"

**Station Charging Speeds:** Up to 150kW when four vehicles are charging, or up to 400kW for a single vehicle. **Connectors:** Supports both CCS1 and NACS (Tesla) plugs. **Cost:** Rates fluctuate but typically start between \$0.45 and \$0.59 per kilowatt-hour (kWh). **Amenities:** Access to fee-free ATMs, clean restrooms, WiFi, and 24/7 groceries/dining. For real-time charger availability and live pricing, use the dedicated Kwik Charge app or check platforms like [PlugShare](#) before you visit. A full fast charge will cost roughly \$18.90 to \$24.78.



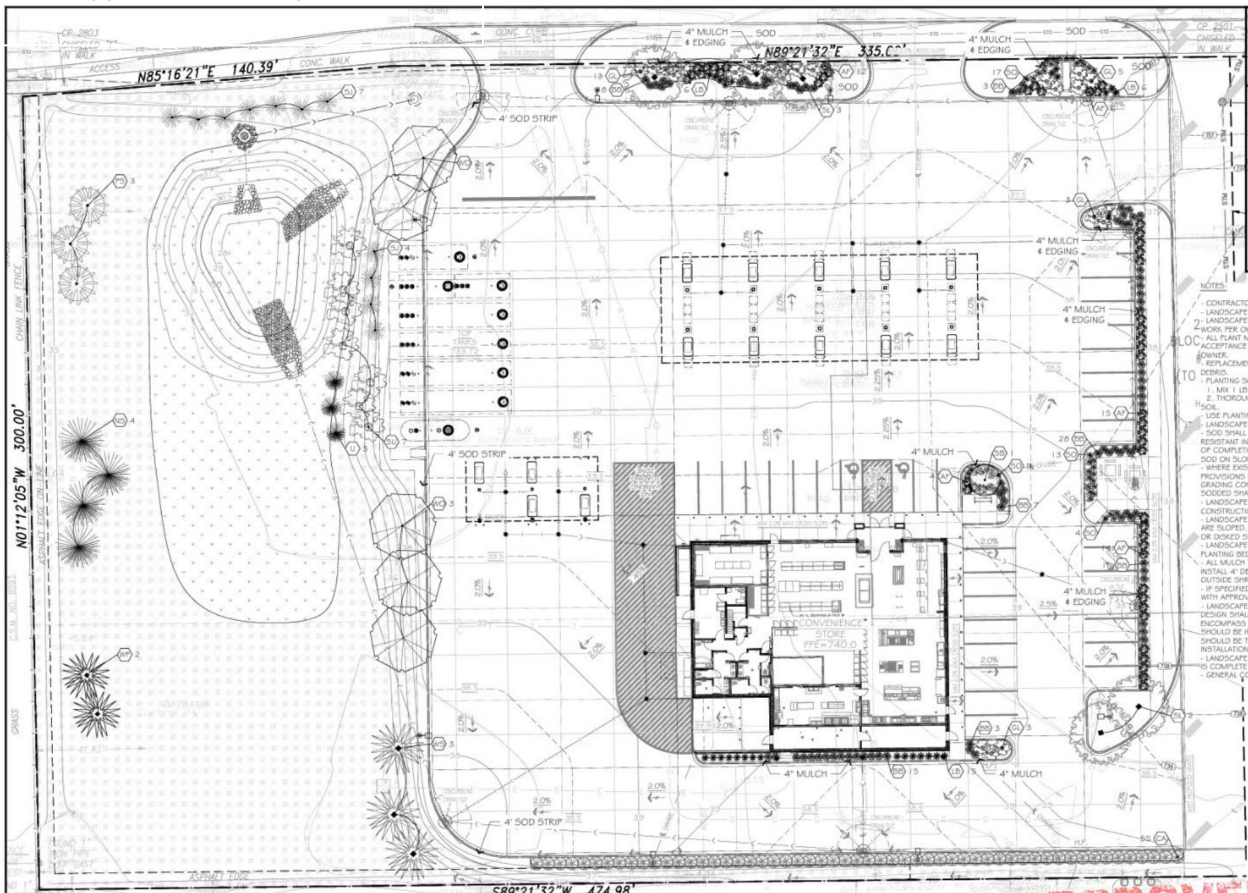
## Site & Landscaping Plan

The plan submittal is included with this staff report. A basic site and civil engineering plan has been provided. Staff is recommending an update to the 2018 approved landscaping plan (below).

As part of the site alterations to add EV charging the new paved area will displace possibly up to four existing trees (white oak and white spruce) along the existing edge of pavement. Staff recommends a comparable replacement landscaping planting around the new charging area.

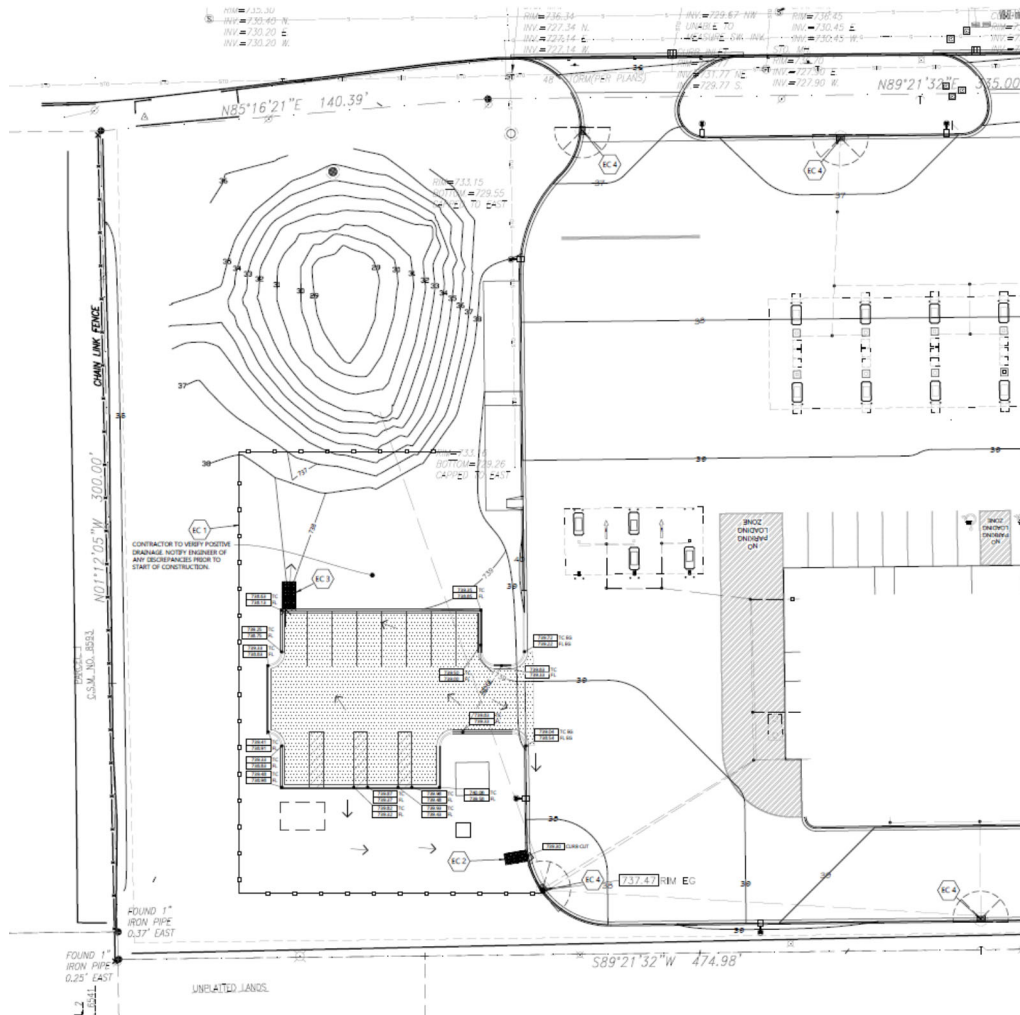
In addition, a stormwater management checklist is included as a condition of approval to determine if the added impervious area requires changes to the existing stormwater retention facility on site.

### 2018 Approved Landscape Plan



Lighting – two new 19-ft tall light poles are planned on each side of the charging area. A photometric plan has been provided.

## Proposed EV Charging area



**Recommendation:** Site, Landscaping, and Architectural Design Review for Kwik Trip an existing Fuel Service Use at 10923 W LAPHAM ST. (Tax Key: 448-9979-014), subject to the following conditions:

1. Submit updated plans and details to the Planning & Zoning office to show (a) elevations of charging stations will need to show the height of all the controls and also bollard spacing for accessibility guidelines on the plans at time of building permit review; (b) As part of the site alterations to add EV charging the new paved area will displace three existing white oak trees and one white spruce tree along the existing edge of pavement. Staff recommends a comparable replacement landscaping planting around the new charging area.
2. Stormwater checklist - Documentation and approval showing compliance with the City of West Allis Storm water Management Ordinance, to be submitted to the Building Inspections and Neighborhood Services Department by a registered Civil Engineer.
3. Any update to the signage plans will require staff review for compliance and subject to permitting.



June 5, 2026

## Project Narrative

Project: Kwik Trip Store #1047  
10923 W Lapham St  
West Allis, WI 53214

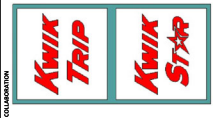
Kwik Trip, Inc is requesting a Site, Landscaping and Architectural Amendment review and approval for a proposed parking lot addition to their existing property located at 10923 W Lapham St in the City of West Allis. The property is zoned C-3 and the existing use is a convenience store and gas station and will remain as such in the proposed condition. The proposed project is a permitted use.

Project scope includes a 17,825 square feet proposed area of disturbance with an addition of 5,140 square feet of new impervious for the parking lot of 12 total parking stalls. Of these 12 parking stalls, 4 are designated for future EV charging stalls. This project will include 18" curb and gutter, curb cut and paint stripping with color to match parking stall striping.

The proposed project will have an estimated completion date of November 1, 2026. Hours of operation are 24 hours a day, seven days a week.

# PROPOSED EV CHARGING ADDITION FOR KWIK TRIP STORE #1047

## WEST ALLIS, WI



**PROJECT INFORMATION**

PROPOSED EV CHARGING ADDITION FOR  
**KWIK TRIP STORE #1047**  
10923 W LAPHAM ST • WEST ALLIS, WI 53214

PROFESSIONAL SEAL

PRELIMINARY DATES  
MAY 15, 2026

REVIEW SET #1

JOB NUMBER  
260113500

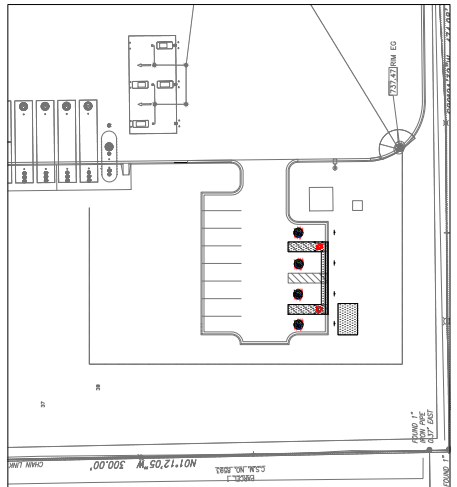
SHEET NUMBER  
**C001**

CIVIL COVER SHEET

### EXCEL LEGEND

NOTE: ALL SYMBOLS SHOWN MAY NOT APPEAR ON DRAWINGS.

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
[Symbol]	PROPOSED SPOT ELEVATION (TOP OF CURB, FINISH OR UNLESS OTHERWISE SPECIFIED)	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF CURB, FINISH OR UNLESS OTHERWISE SPECIFIED)
[Symbol]	EXTINGUISHERS	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED DRAINAGE FLOW	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED WATER VALVE IN BOX	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED WELL	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED LIGHT POLE	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED STORM CATCH BASIN - ST CB	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED STORM FLOOD INLET - ST FI	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED STORM CURB INLET - ST CI	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED UTILITY	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED STORM DRAIN AND MANHOLE - ST DM	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED SANITARY SEWER AND MANHOLE - SAN SM	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED WATER LINE AND HYDRANT	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED CURB AND GUTTER	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED UNDERGROUND TELEPHONE CABLE	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED UNDERGROUND GAS LINE	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED UNDERGROUND ELECTRIC CABLE	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)
[Symbol]	PROPOSED UNDERGROUND FIBER OPTIC LINE	[Symbol]	PROPOSED SPOT ELEVATION (TOP OF WALL, BOTTOM OF WALL OR FINISH)



SITE PLAN OVERVIEW  
SCALE: 1" = 30'

### CIVIL SHEET INDEX

NUMBER	SHEET NAME / DESCRIPTION
C001	TITLE SHEET
C002	GENERAL NOTES
C003	GENERAL NOTES
C004	UNIMPROVED SITE PLAN
C005	EXISTING SITE AND DEMO EXISTING PLAN
C006	PROPOSED SITE PLAN
C007	PROPOSED SITE PLAN
C008	LANDSCAPE & LIGHTING CONTROL PLAN
C009	DETAILS

### ELECTRICAL SHEET INDEX

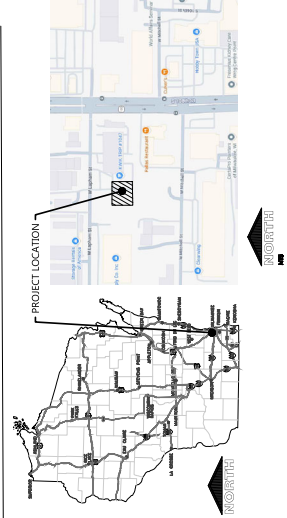
NUMBER	SHEET NAME / DESCRIPTION
E001	TITLE SHEET
E002	GENERAL NOTES
E003	GENERAL NOTES
E004	UNIMPROVED SITE PLAN
E005	EXISTING SITE AND DEMO EXISTING PLAN
E006	PROPOSED SITE PLAN
E007	PROPOSED SITE PLAN
E008	LANDSCAPE & LIGHTING CONTROL PLAN
E009	DETAILS

### PROJECT CONTACTS

**OWNER INFORMATION**  
Kwik Trip  
Contact: Bob Harvey/Adam Schwart  
1800-246-8511  
www.kwiktrip.com  
Email: rshwartz@kwiktrip.com

**DESIGNER INFORMATION**  
Excel Engineering, LLC  
Contact: Zach Blocker  
1800-246-8511  
www.excelengineering.com  
Email: zach@excelengineering.com

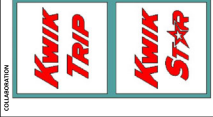
### LOCATION MAP



**EXISTING CONDITIONS NOTE:**  
PREVIOUSLY PROPOSED PLANS USED AS EXISTING CONDITIONS. PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY ALL SITE IMPROVEMENTS, UTILITY LOCATIONS, INVERTS, SEIZES, ETC. NOTIFY ENGINEER OF ANY DISCREPANCIES. FAILURE TO NOTIFY ENGINEER SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ANY DAMAGES AS A RESULT OF FAILURE TO FIELD VERIFY.







**PROJECT INFORMATION**

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10923 W LAPHAM ST • WEST ALLIS, WI 53214

PROFESSIONAL SEAL

PRELIMINARY DATES  
MAY 15, 2026

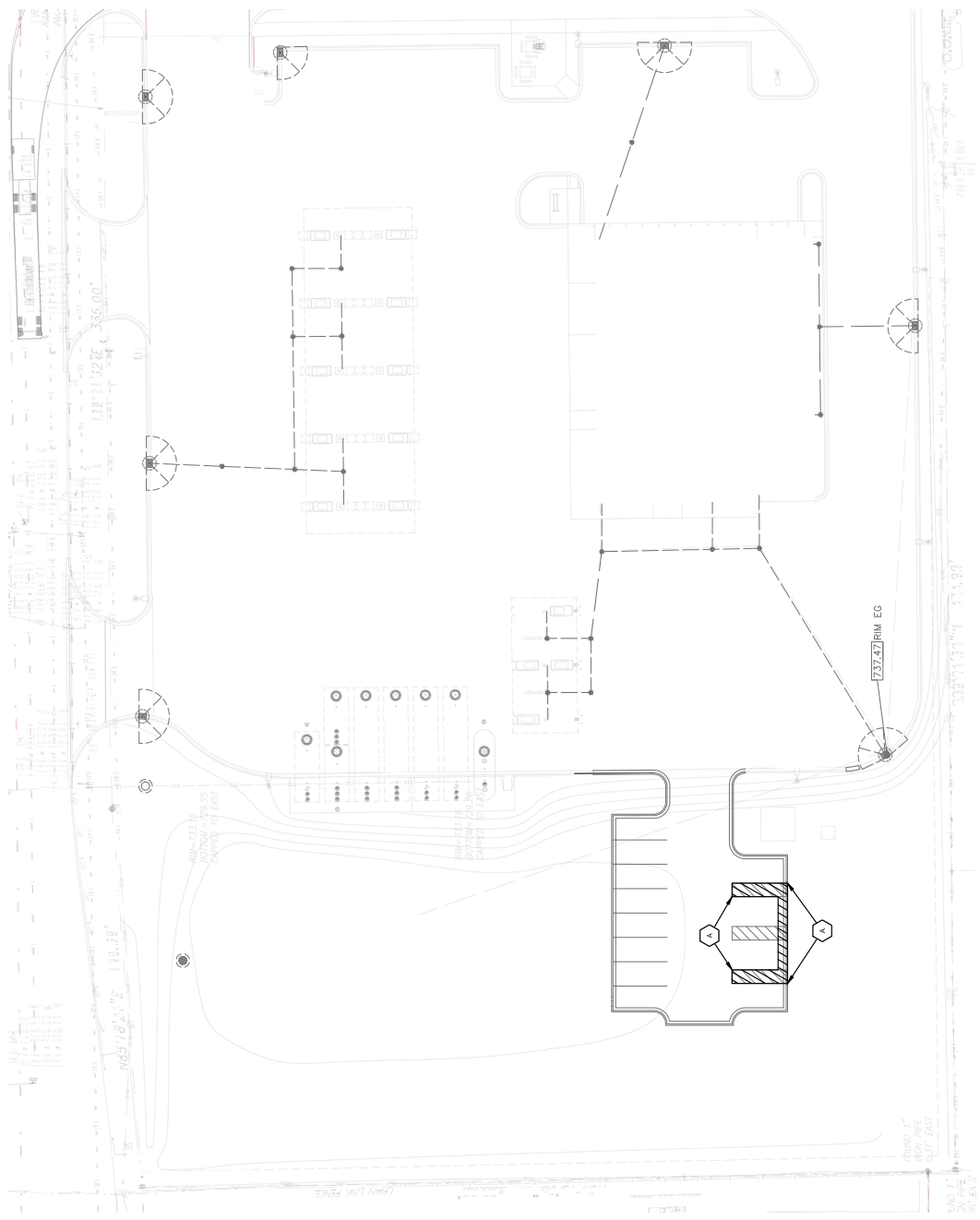
REVIEW SET #1

JOB NUMBER  
260113500

SHEET NUMBER  
**C020**

**KEYNOTES**

A	SAW-CUT AND BRIDGE CURB
B	SAW-CUT AND BRIDGE PAVEMENT
C	PROJECT



**EXCEL**  
 Always a Better Plan  
 100 Cornwell Drive  
 Fond du Lac, WI 54935  
 920.208.8800  
 excel@excelinc.com

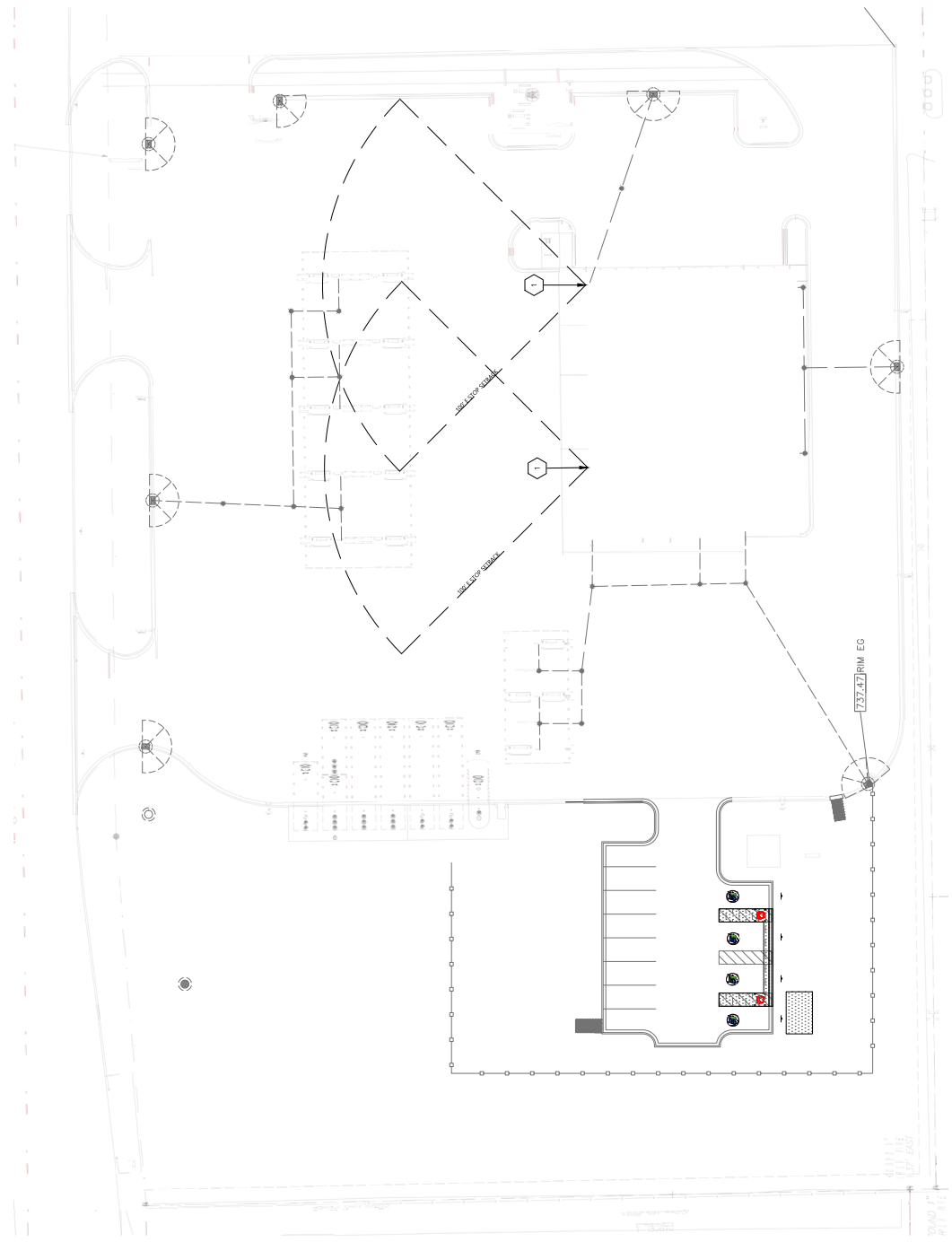
**KWIK TRIP**  
**KWIK STAR**

**PROJECT INFORMATION**  
 PROPOSED EV CHARGING ADDITION FOR  
**KWIK TRIP STORE #1047**  
 10923 W LAPHAM ST • WEST ALLIS, WI 53214

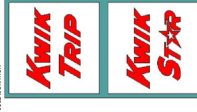
**PRELIMINARY DATES**  
 MAY 15, 2026  
**REVIEW SET #1**

**JOB NUMBER**  
 260113500  
**SHEET NUMBER**  
**C100**

**KEYNOTES**  
 1. SEE ADJACENT SHEET D14



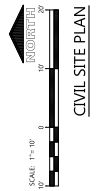
**SCALE: 1"=20'**  
**PROPERTY**  
**CIVIL OVERALL SITE PLAN**



PROFESSIONAL SEAL

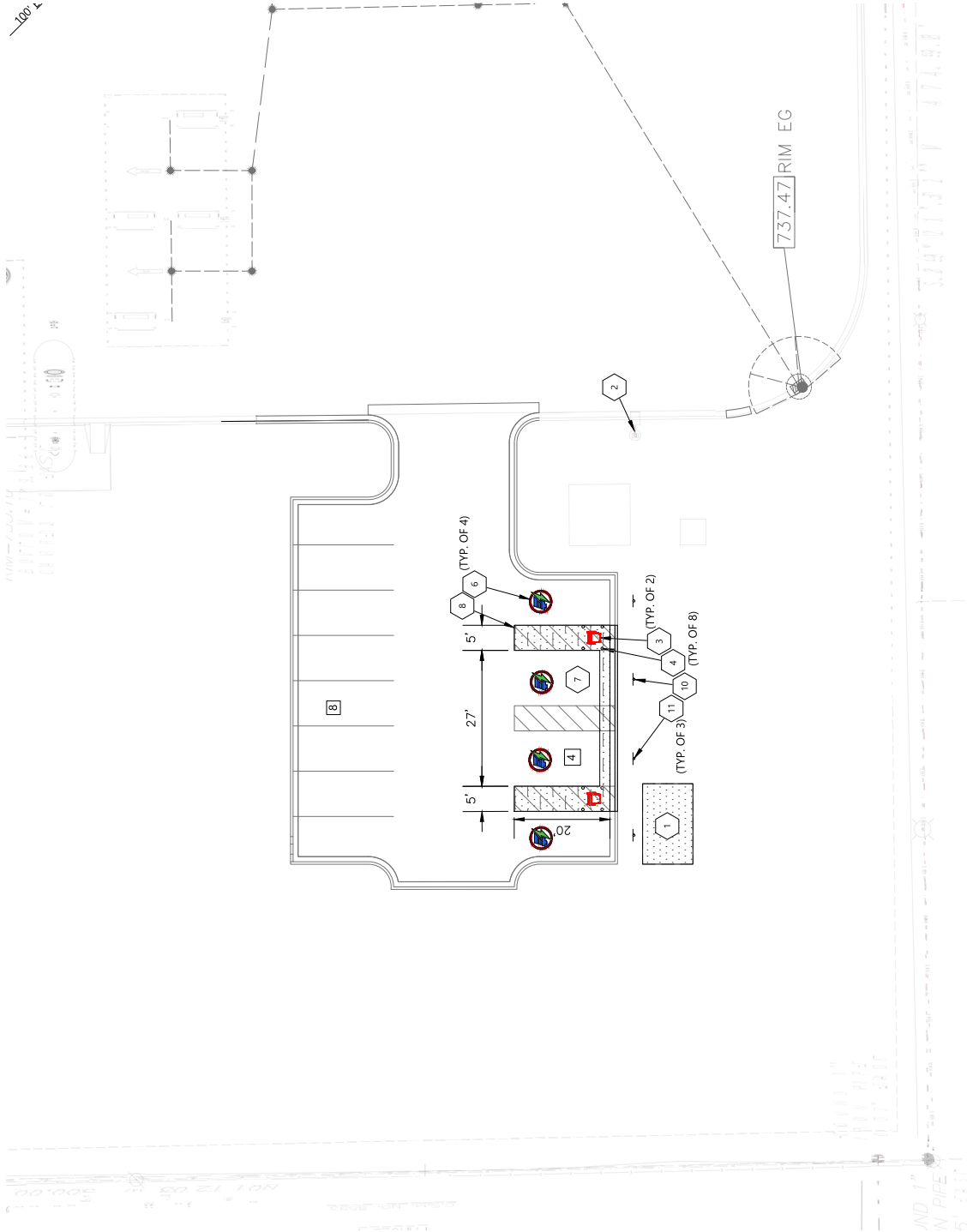
**REVIEW SET #1**

PRELIMINARY DATES	MAY 15, 2025
JOB NUMBER	260113500
SHEET NUMBER	C101



**PARKING SUMMARY:**

STANDARD STALLS - 42
TRUCK CANNING STALLS - 9
BIKE CANNING STALLS - 2
EV CHARGING STALLS - 2
EV CHARGING HANDICAP ACCESSIBLE - 2
TOTAL STALLS - 76

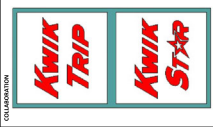


**KEYNOTES**

1	FRONT FACED CONCRETE WALL WITH INTERIOR FINISH TO MATCH EXISTING TO MATCH EXISTING WALLS. CONCRETE SHALL BE 4" THICK WITH 1" REINFORCING BARS. FINISH TO MATCH EXISTING WALLS.
2	REINFORCE EXISTING CONCRETE WITH 1" REINFORCING BARS. FINISH TO MATCH EXISTING WALLS.
3	EV CHARGING WITH BRANCO AUTOMATION SYSTEM. SEE ELECTRICAL PLANS FOR CHARGING STATION LOCATIONS & SYSTEMS. TO CONSTRUCTION.
4	8" CONCRETE BOLLARDS (TYP) SEE DETAIL.
5	EV STALL STRIPING
6	HANDICAP STALL
7	PAINT STRIPING (TYP). COLOR TO MATCH PARKING STALL STRIPING.
8	HANDICAP SIGN PER STATE CODE. (SEE DETAIL)
9	EV STALL SIGNAGE (SEE DETAIL)
10	EV STALL STRIPING
11	EV STALL STRIPING

**LEGEND:**

[Pattern]	REINFORCE EXISTING
[Pattern]	HEAVY DUTY CONCRETE 8"
[Pattern]	STANDARD CONCRETE
[Pattern]	8" CURB & GUTTER (SEE DETAIL)



**PROJECT INFORMATION**  
 PROPOSED EV CHARGING ADDITION FOR  
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 10923 W LAPHAM ST • WEST ALLIS, WI 53214

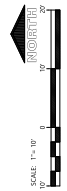
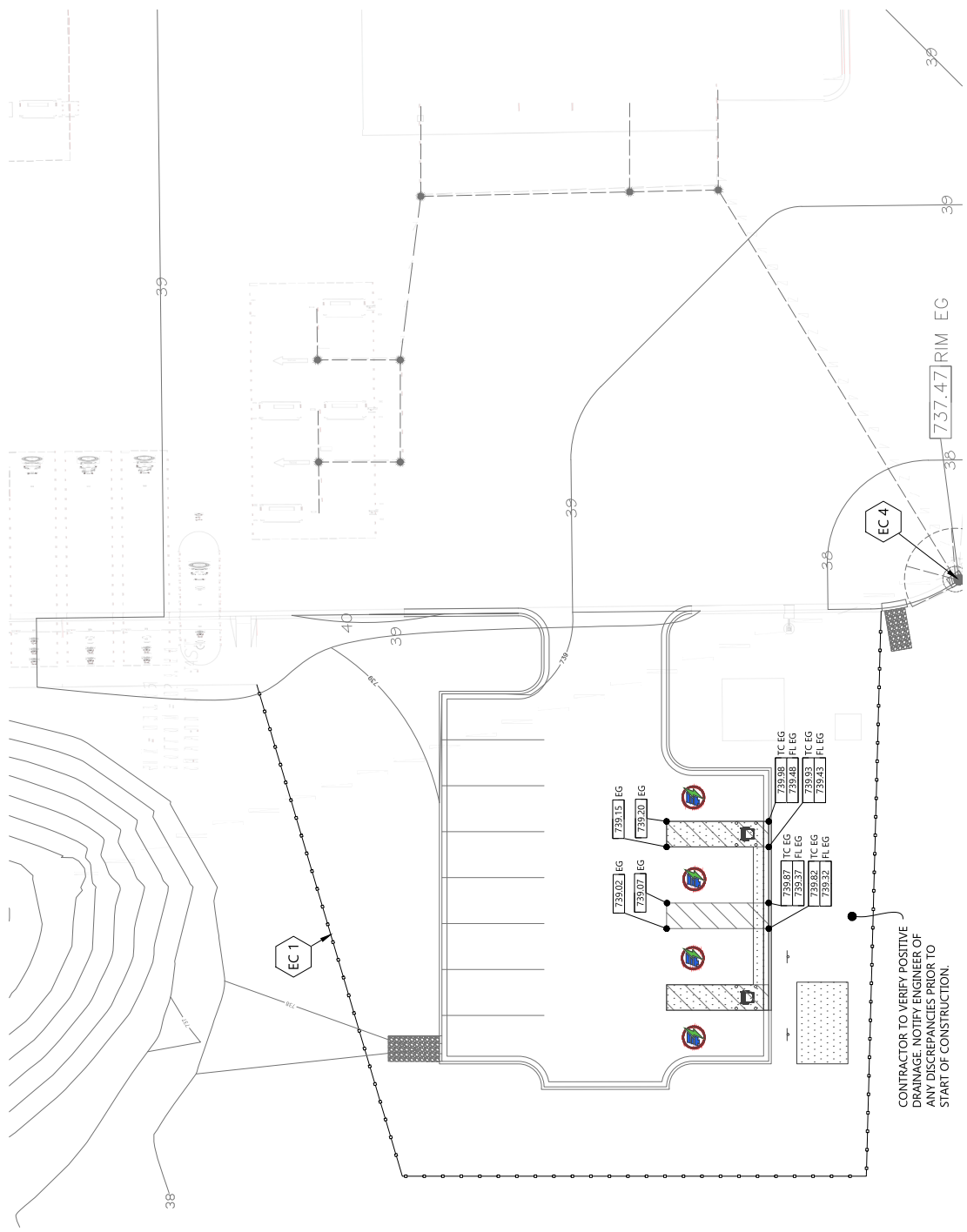
**PRELIMINARY DATES**  
 MAY 15, 2026  
**REVIEW SET #1**

**JOB NUMBER**  
 260113500  
**SHEET NUMBER**  
**C200**

- GENERAL NOTES:**
- 1. 50% IN ANY DIRECTION, HANDICAP STAIR & ACCESS RAILS SHALL COMPLY TO ADA REQUIREMENTS (CURRENT EDITION)
  - 2. 50% IN ANY DIRECTION, HANDICAP STAIR & ACCESS RAILS SHALL COMPLY TO ADA REQUIREMENTS (CURRENT EDITION)
  - 3. 50% IN ANY DIRECTION, HANDICAP STAIR & ACCESS RAILS SHALL COMPLY TO ADA REQUIREMENTS (CURRENT EDITION)
  - 4. CONTRACTOR SHALL PROVIDE CONCRETE WASHOUT AS REQUIRED PER CODE. FINAL LOCATION TBD BY CONTRACTOR.
  - 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS FOR ALL WORK IN THIS PROJECT MANUAL. VERIFY ALL SETTINGS IMMEDIATELY DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.

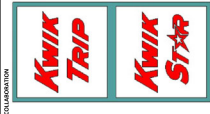
**KEYNOTES**

EC	EROSION CONTROL
EC	INLET PROTECTION



**CIVIL GRADING AND EROSION CONTROL PLAN**





PROJECT INFORMATION

PROPOSED EV CHARGING ADDITION FOR  
**KWIK TRIP STORE #1047**  
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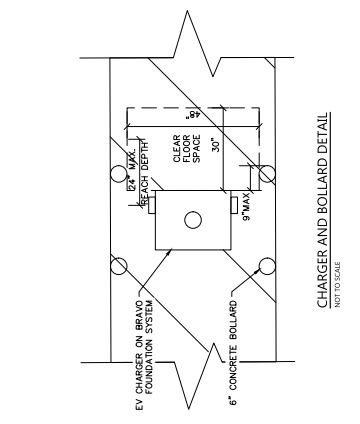
PROFESSIONAL SEAL

PRELIMINARY DATES  
MAY 15, 2026

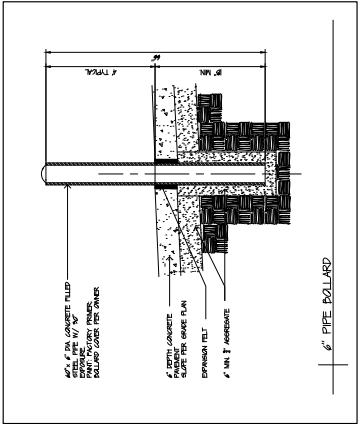
REVIEW SET #1

JOB NUMBER  
260113500

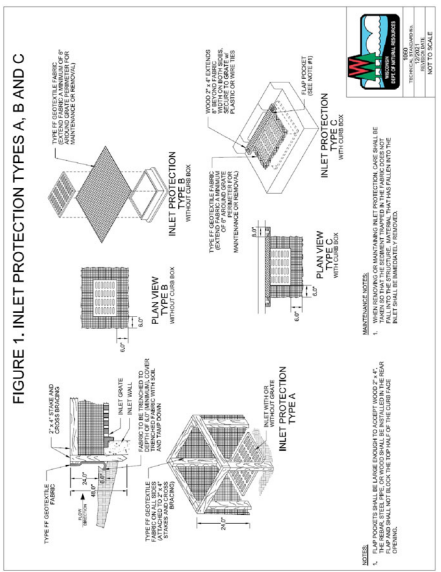
SHEET NUMBER  
C500



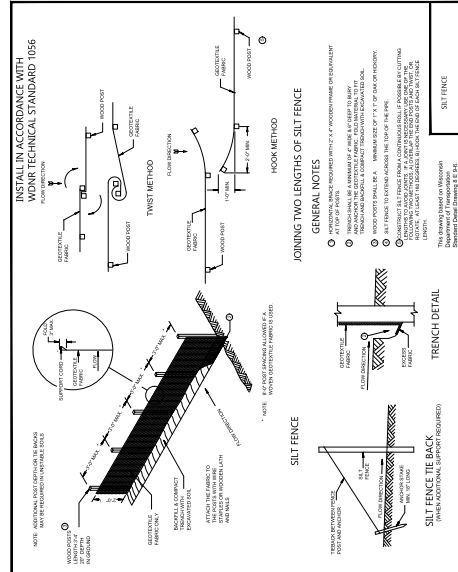
**CHARGER AND BOLLARD DETAIL**  
NOT TO SCALE



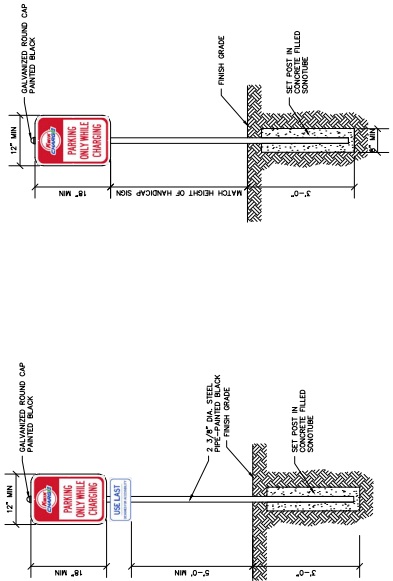
**6" PIPE BOLLARD**



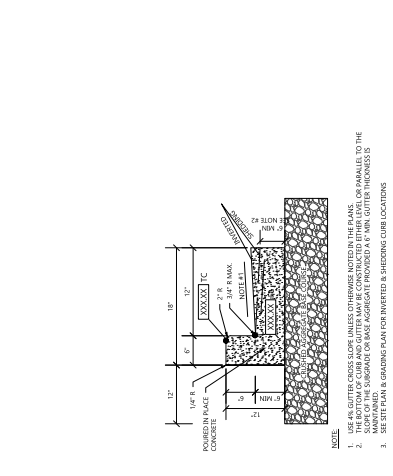
**INLET PROTECTION DETAIL**  
NOT TO SCALE



**SILT FENCE - INSTALLATION DETAIL**  
NOT TO SCALE



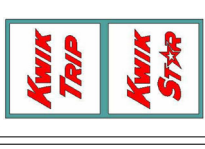
**HANDICAP SIGNAGE W/ CONCRETE BASE**  
NOT TO SCALE



**18" CONCRETE CURB & GUTTER DETAIL**  
NOT TO SCALE

CIVIL DETAILS





PROJECT INFORMATION

PROPOSED ALTERATION FOR: KWIK TRIP #1047
10923 W LAPHAM ST. • WEST ALLIS, WI

PROFESSIONAL SEAL

PRELIMINARY DATES
MAY 15, 2016

REVIEW SET #1

JOB NUMBER
260113500

SHEET NUMBER
E001

ELECTRICAL GENERAL NOTES

- 1. GENERAL REFERENCES TO KWIK TRIP... 2. GENERAL NOTES... 3. GENERAL NOTES... 4. GENERAL NOTES... 5. PROTECTION AND SAFETY... 6. GENERAL NOTES... 7. GENERAL NOTES... 8. GENERAL NOTES... 9. GENERAL NOTES... 10. GENERAL NOTES... 11. GENERAL NOTES... 12. GENERAL NOTES... 13. GENERAL NOTES... 14. GENERAL NOTES... 15. GENERAL NOTES... 16. GENERAL NOTES... 17. GENERAL NOTES... 18. GENERAL NOTES... 19. GENERAL NOTES... 20. GENERAL NOTES... 21. GENERAL NOTES... 22. GENERAL NOTES... 23. GENERAL NOTES... 24. GENERAL NOTES... 25. GENERAL NOTES... 26. GENERAL NOTES... 27. GENERAL NOTES... 28. GENERAL NOTES... 29. GENERAL NOTES... 30. GENERAL NOTES... 31. GENERAL NOTES... 32. GENERAL NOTES... 33. GENERAL NOTES... 34. GENERAL NOTES... 35. GENERAL NOTES... 36. GENERAL NOTES... 37. GENERAL NOTES... 38. GENERAL NOTES... 39. GENERAL NOTES... 40. GENERAL NOTES... 41. GENERAL NOTES... 42. GENERAL NOTES... 43. GENERAL NOTES... 44. GENERAL NOTES... 45. GENERAL NOTES... 46. GENERAL NOTES... 47. GENERAL NOTES... 48. GENERAL NOTES... 49. GENERAL NOTES... 50. GENERAL NOTES... 51. GENERAL NOTES... 52. GENERAL NOTES... 53. GENERAL NOTES... 54. GENERAL NOTES... 55. GENERAL NOTES... 56. GENERAL NOTES... 57. GENERAL NOTES... 58. GENERAL NOTES... 59. GENERAL NOTES... 60. GENERAL NOTES... 61. GENERAL NOTES... 62. GENERAL NOTES... 63. GENERAL NOTES... 64. GENERAL NOTES... 65. GENERAL NOTES... 66. GENERAL NOTES... 67. GENERAL NOTES... 68. GENERAL NOTES... 69. GENERAL NOTES... 70. GENERAL NOTES... 71. GENERAL NOTES... 72. GENERAL NOTES... 73. GENERAL NOTES... 74. GENERAL NOTES... 75. GENERAL NOTES... 76. GENERAL NOTES... 77. GENERAL NOTES... 78. GENERAL NOTES... 79. GENERAL NOTES... 80. GENERAL NOTES... 81. GENERAL NOTES... 82. GENERAL NOTES... 83. GENERAL NOTES... 84. GENERAL NOTES... 85. GENERAL NOTES... 86. GENERAL NOTES... 87. GENERAL NOTES... 88. GENERAL NOTES... 89. GENERAL NOTES... 90. GENERAL NOTES... 91. GENERAL NOTES... 92. GENERAL NOTES... 93. GENERAL NOTES... 94. GENERAL NOTES... 95. GENERAL NOTES... 96. GENERAL NOTES... 97. GENERAL NOTES... 98. GENERAL NOTES... 99. GENERAL NOTES... 100. GENERAL NOTES...

23. **Record Documents**  
 23.1. The EC shall keep at current redline set of as-built record drawings indicating actual wiring methods used. These shall document the actual wiring methods used for the project.  
 23.2. The EC shall provide a complete record of all drawings and specifications for the project. The EC shall provide a complete record of all drawings and specifications for the project.  
 23.3. The EC shall provide a complete record of all drawings and specifications for the project. The EC shall provide a complete record of all drawings and specifications for the project.  
 23.4. The EC shall provide a complete record of all drawings and specifications for the project. The EC shall provide a complete record of all drawings and specifications for the project.  
 23.5. The EC shall provide a complete record of all drawings and specifications for the project. The EC shall provide a complete record of all drawings and specifications for the project.

24.

DESIGNER	KWIK TRIP	ELECTRICAL RESPONSIBILITY MATRIX	FURNISH	INSTALL	TERMINATE
DESIGNER	KWIK TRIP	ELECTRICAL SUPPLY HOUSE (SH)			
		REFRIGERATION CONTRACTOR (RC)			
		CONCRETE CONTRACTOR (CC)			
		HYVAC CONTRACTOR (HC)			
DESIGNED BY		TASK DESCRIPTION			
General	X	Electrical fixtures and devices	SH	EC	EC
	X	Light fixtures and devices	SH	EC	EC
	X	Electrical panels by Schneider (1)	KT	EC	EC
	X	Electrical Equipment	SH	EC	EC
	X	Receivay and wires	SH	EC	EC
	X	Temporary power distribution boxes (d)	SH	EC	EC
	X	GC trailer power cabling (when there is a GC trailer)	SH	EC	EC
Site		Sight lighting pole bases	CC	CC	
	X	Anchor bolts	KT	CC	
	X	Site lighting pole fixture wiring	SH	EC	EC
	X	CAT scale HV receivay and wiring	SH	EC	EC
	X	Exterior Trash compactor	KT	EC	EC
Gas & Diesel Canopy		Gas and Diesel Canopy General Lighting	SH	EC	EC
	X	Gas and Diesel Canopy sign/lighting receivay to J-box	SH	EC	EC
	X	Gas and Diesel Canopy sign/lighting installation and final connection to J-box	SC	SC	SC
	X	Conduit & wire to fuel dispensers and tanks	SH	EC	EC
Store		Telecom stub out conduits (2)	SH	EC	OTHERS
	X	Interior sign lighting	KT	EC	EC
	X	PVC pipe chase for soda line and fryer oil line	SH	EC	EC
	X	Kitchen equipment	KT	EC	EC
	X	UPS	KT	EC	EC
	X	Line voltage between RTU	SH	EC	EC
	X	Conduit in vestibule slab for heat	SH	EC	EC
	X	CPC temperature controls - Line voltage	SH	EC	EC
Carwash		Carwash slab heat system conduit	SH	EC	EC
	X	Carwash door receivay and wiring	SH	EC	OTHERS
	X	Carwash slab socket	KT	HC	HC
	X	Carwash slab socket sensors and wiring	HC	HC	HC
	X	Carwash controls conduits in boys and mechanical room	SH	EC	RC
Arc Flash (when new services are installed)					
	X	Arc Flash Study			EC
	X	Arc Flash - field verification (3)			EC
	X	Arc Flash Labels primed by KT, installed by EC			EC

General Notes:

- Programming of lighting control by Kwik Trip.

Key Notes:

- (1) EC may need to add or swap circuit breakers in panels supplied by Schneider.
- (2) Provide pull string for service wiring and coordinate with telecom company for final location.
- (3) Reference arc flash section in general notes for scope of work.
- (4) Provide and install two distribution boxes for the store and one distribution box for the carwash.

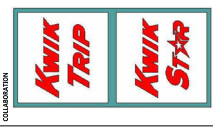
DESIGNER	KWIK TRIP	LOW VOLTAGE RESPONSIBILITY MATRIX	FURNISH	INSTALL	TERMINATE
DESIGNER	KWIK TRIP	ELECTRICAL SUPPLY HOUSE (SH)			
		REFRIGERATION CONTRACTOR (RC)			
		SECURITY CONTRACTOR (SC)			
		FRAME HVAC CONTROLS CONTRACTOR (THC)			
DESIGNED BY		TASK DESCRIPTION			
General	X	Receivay	SH	EC	EC
	X	Data wiring - CAT6 (CAT5 at E2&E3 Only)	SH	EC	EC (1)
	X	Fiber optic pre-terminated cabling to fiber J-box	SH	EC	EC
	X	Fiber optic cabling from fiber J-box to IT rack	SH	IT	IT
Site		LV Cabinet (Large and Small) - Fiber optic pre-terminated cabling to fiber J-box (3)	SH	EC	EC
	X	LV Cabinet - Fiber optic cabling from fiber J-box to IT rack (3)	SH	IT	IT
	X	CAT scale LV conduit	SH	EC	EC
	X	CAT scale LV wiring	OTHERS	EC	OTHERS
Gas & Diesel Canopy		Exterior intercom at canopies	SE	EC	EC
Store		IT rack install	SE	OTHERS	IT
	X	Telephone receivay and wiring (4)	SH	EC	EC
	X	Starlink wiring WAP	SE	EC	IT
	X	Termination of WAP at IT Rack	SE	EC	IT
	X	Starlink traceway to IT Rack	SE	EC	EC
	X	Starlink bracket on roof	SE	EC	EC
	X	Starlink mounting and termination	SE	EC	IT
	X	CPC temperature controls low voltage	SH	EC	EC
	X	Kitchen Hood Fan data supply - CAT6	SH	EC	EC (1)
	X	CPC temperature controls low voltage	SE/RC	EC	RC
	X	Rooftop units control wiring receivay	SH	EC	EC
	X	Rooftop units control wiring	THC	THC	THC
	X	TWS & monitors	IT	BTW	BTW
	X	Refrigeration rack control wiring receivay	SH	EC	EC
	X	Refrigeration rack control wiring	RM	RM	RM
Camera		Control panel, keypad, devices	KT	EC	Others
	X	Data wiring - CAT6	SH	EC	EC
	X	J-box, receivay, and wiring for extenders at poles	SH	EC	EC
	X	Programming and commissioning			Others
Fire Alarm		J-box, receivay, and wiring	SH	EC	FA
	X	Control panel, keypad, devices	FA	EC	FA
	X	Programming and commissioning			FA
Security System		Control panel, keypad, devices	SC	EC	EC
	X	Programming and commissioning			SC

General Notes:

- EC is responsible to test continuity of all data wires.

Key Notes:

- (1) EC installs RJ45 at the end and tests data wires.
- (2) Reference TC sheets for receivay location
- (3) LV cabinet includes both LTE cabinet and WIFI NEMA Enclosure
- (4) EC punches down telephone wiring at the telephone board and installs RJ 45 at the end.



PROJECT INFORMATION

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 10923 W LAPHAM ST. • WEST ALLIS, WI

PROFESSIONAL SEAL

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 MAY 15, 2026

REVIEW SET #1

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 260113500

SHEET NUMBER

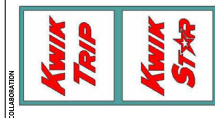
**E002**

ELECTRICAL GENERAL NOTES









**PROJECT INFORMATION**

PROPOSED ALTERATION FOR:  
**KWIK TRIP #1047**  
 10923 W LAPHAM ST. • WEST ALLIS, WI

PROFESSIONAL SEAL

PRELIMINARY DATES  
 MAY 15, 2026

REVIEW SET #1

JOB NUMBER  
 260113500

SHEET NUMBER

**E103**

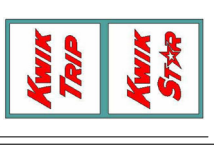
SITE UNDERGROUND CONDUIT SCHEDULE

**CONDUIT SCHEDULE - PA - AC POWER**

Conduit Run Name	Receiving Origin	Receiving Destination	Wire/Cable Quantity per Circuit	Wire/Cable Size	Diameter (inches)	Recovery Type	Notes
PA100A	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA100B	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA100C	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA100D	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA100E	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA100F	UTILITY TRANSFORMER	UTILITY SWITCHGEAR	N/A	N/A	4"	PVC	COORDINATE CONDUIT SIZE AND QUANTITY WITH UTILITY
PA101A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 1
PA101B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 2
PA101C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 3
PA101D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 4
PA101E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 5
PA102A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 1
PA102B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 2
PA102C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 3
PA102D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 4
PA102E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 5
PA103A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 1
PA103B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 2
PA103C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 3
PA103D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 4
PA103E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 5
PA104A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 1
PA104B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 2
PA104C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 3
PA104D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 4
PA104E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	5	350 KCMIL	4"	PVC	AC POWER TO EV DISPENSER 5

**CONDUIT SCHEDULE - SB - DATA**

Conduit Run Name	Receiving Origin	Receiving Destination	Wire/Cable Quantity per Circuit	Wire/Cable Size	Diameter (inches)	Recovery Type	Notes
SB100A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	STORE NETWORK SWITCH	1	N/A	1"	PVC	EXTEND NEW CONDUIT TO NEAREST AVAILABLE SPARE CONDUIT FROM STORE FOR CONNECTION TO EXISTING NETWORK SWITCH FIELD VERIFY
SB101A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	2	N/A	1"	PVC	DATA TO DISPENSER 1
SB101B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	2	N/A	1"	PVC	DATA TO DISPENSER 2
SB101C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	2	N/A	1"	PVC	DATA TO DISPENSER 3
SB101D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	2	N/A	1"	PVC	DATA TO DISPENSER 4
SB101E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	2	N/A	1"	PVC	DATA TO DISPENSER 5
SB102A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 1
SB102B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 2
SB102C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 3
SB102D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 4
SB102E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 5
SB103A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 1
SB103B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 2
SB103C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 3
SB103D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 4
SB103E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 5
SB104A	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 1	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 1
SB104B	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 2	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 2
SB104C	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 3	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 3
SB104D	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 4	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 4
SB104E	CUSTOMER CONDUIT ENTRANCE EV SWITCHGEAR	EV DISPENSER 5	2	N/A	1"	PVC	SPARE CONDUIT TO EV DISPENSER 5



**PROJECT INFORMATION**

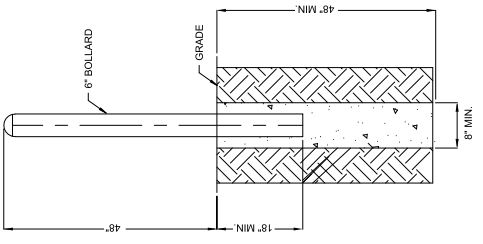
PROPOSED ALTERATION FOR:  
**KWIK TRIP #1047**  
 10923 W LAPHAM ST. • WEST ALLIS, WI

PROFESSIONAL SEAL

**REVIEW SET #1**  
 PRELIMINARY DATES  
 MAY 15, 2026

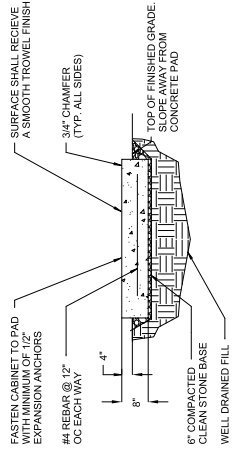
**JOB NUMBER**  
 260113500

**SHEET NUMBER**  
**E310**



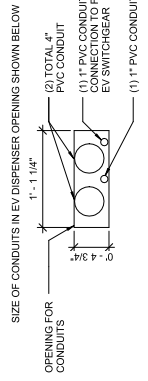
**BOLLARD DETAIL**

**2 EV - PLAN DETAILS**  
SCALE: NONE

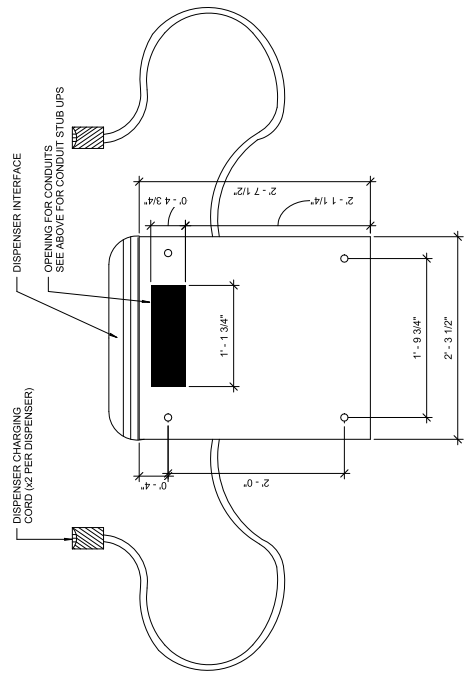


**CONCRETE PAD DETAIL, TYPICAL (CROSS SECTION)**

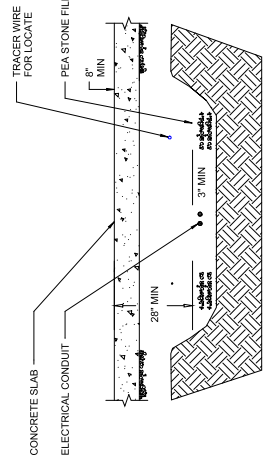
**2 EV - PLAN DETAILS**  
SCALE: NONE



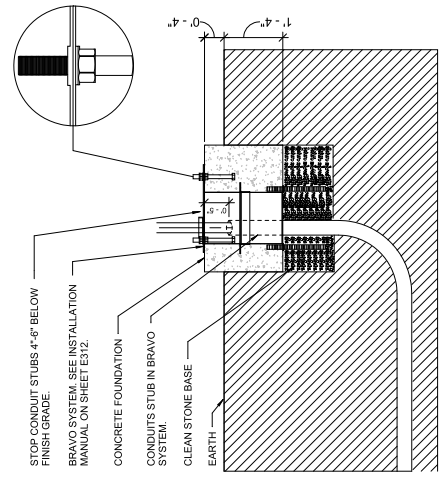
NOTE: OPENINGS FOR CONDUITS SHALL BE AIRTIGHT AFTER CONDUITS ARE INSTALLED.



**5 DISPENSER CONDUIT OPENINGS**  
SCALE: NONE



**1 ELECTRICAL TRENCH DETAIL**  
SCALE: NONE

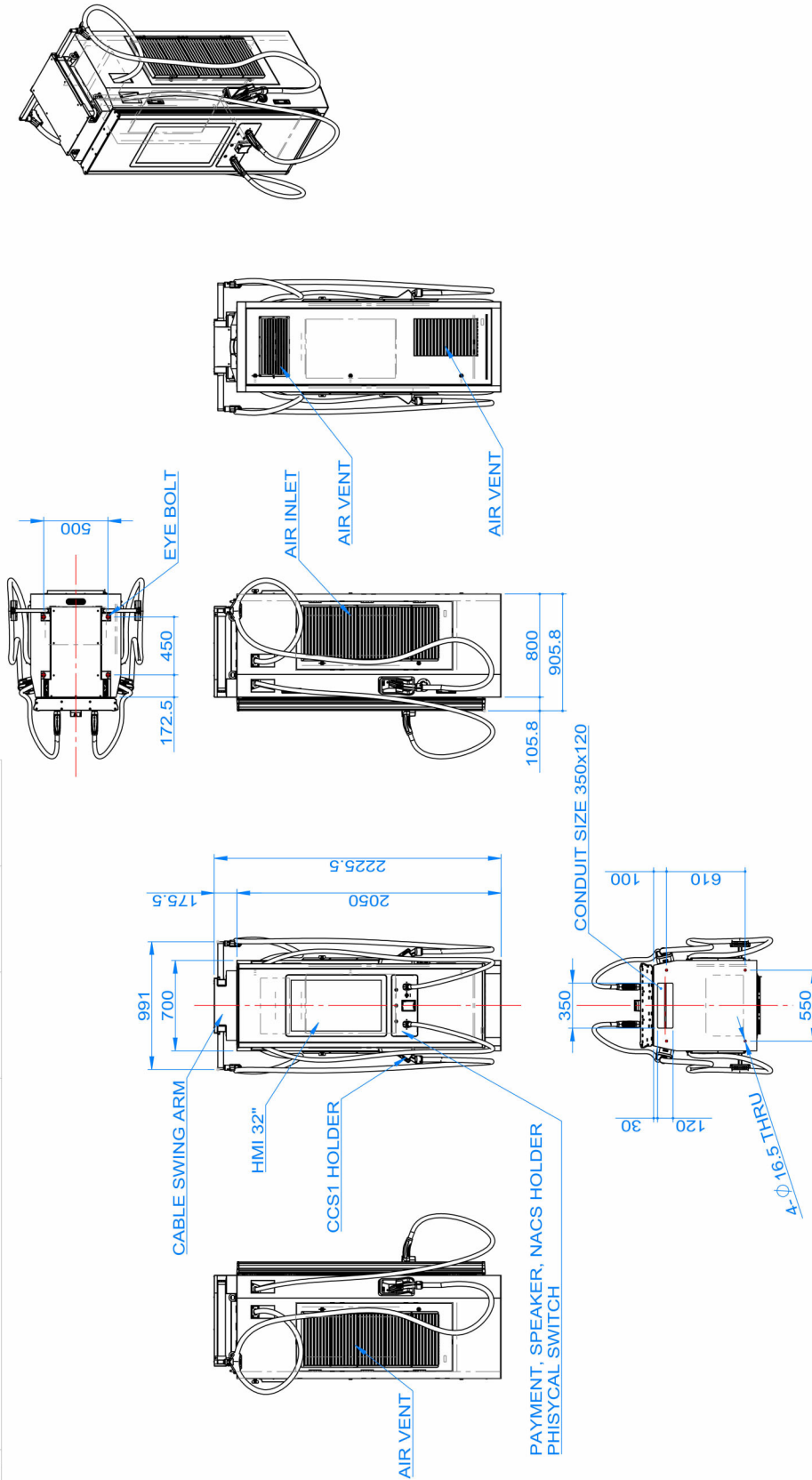


**4 TYPICAL EV CONDUIT STUB UP**  
SCALE: NONE

ELECTRICAL DETAILS - GENERAL

PROPERTY OF ISSUING ENTITY, CANNOT BE DISTRIBUTED OR REPRODUCED WITHOUT AUTHORIZATION.

NO.	REVISION / REASON	DATE	SIGNATURE	APPROVED
1				



- \* NOTE \*
- (\*) CTF(CRITICAL TO FUNCTION) DIMENSIONS FOR PRODUCTION -0 POINTS. INSPECTION DATA FOR ALL DIMENSIONS SHOULD BE SUBMITTED TO SK SIGNET. FOR APPROVAL USING INSPECTION REPORT FORMAT PROVIDED BY SK SIGNET. ALL HEXAGONAL NUMBERS ON THE DRAWING SHOULD BE REFERRED TO NOTES OF THE SAME NUMBER.
  - UNSPECIFIED TOLERANCE IS REFERRED TO ON THE TOLERANCE RANG TABLE.
  - SHARP EDGE, EMBOSS, CRACK, ETC ARE NOT ALLOWABLE
  - FLATNESS AND WARPAGE: 0.5mm(MAX)
  - UNSPECIFIED DIMENSIONS ARE SYMMETRIC TO THE OPPOSITE SIDE OR REFERRED TO IN 3D STEP FILE.
  - ALL DIMENSIONS SHOULD BE NEGOTIATED IN ADVANCE WITH DESIGNER
  - ALL PARTS WHICH WOULD BE SUPPLIED TO SK SIGNET MUST NOT CONTAIN PROHIBITED SUBSTANCE INCLUDING ROHS HAZARDOUS SUBSTANCES.
  - THE EXTERNAL PART MUST GUARANTEE WATERPROOF (CASE ASSY DRAWING)

CTF	DIMENSIONAL TOLERANCE		DIMENSIONS FOR PRODUCTION	
	DIMENSION	TOLERANCE	DIMENSION	TOLERANCE
F	0.5	-0.05	0.5	-0.05
M	3	-0.10	3	-0.10
C	10	-0.15	10	-0.15
A	30	-0.20	30	-0.20
S	100	-0.30	100	-0.30
V	300	-0.50	300	-0.50
ANGULAR	±1°	±1°	±1°	±1°
F	±1°	±1°	±1°	±1°
A	±1°	±1°	±1°	±1°
C	±1°	±1°	±1°	±1°
S	±1°	±1°	±1°	±1°
V	±1°	±1°	±1°	±1°

NO.	FINISH	CHARACTERISTICS	REMARK
1	V2 400KW ALL IN ONE		
		MODEL	
		ITEM DESCRIPTION	CS-0400-FEN-TQCNW33NU
		DATE	2026-01-06
		UNIT	mm
		SCALE	1:1
		SIZE	A3
		ITEM CODE	AFCX40-S00001

**EXCEL**  
Always a Better Plan  
100 Camelot Drive  
Fond du Lac, WI 54935  
920-920-9800  
excelsignet.com

**KWIK TRIP**  
**KWIK STAR**

PROJECT INFORMATION

PROPOSED ALTERNATION FOR:  
**KWIK TRIP #1047**  
10923 W LAPHAM ST. • WEST ALLIS, WI

PRELIMINARY DATES  
MAY 15, 2026

REVIEW SET #1

JOB NUMBER  
260113500

SHEET NUMBER  
**E311**

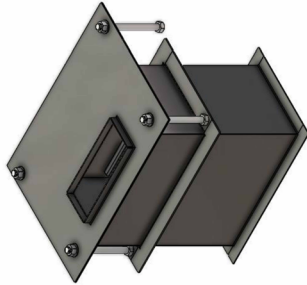
ELECTRICAL DETAILS - GENERAL

**GENERAL NOTE:**  
ALL EQUIPMENT SPECIFICATION SHEETS, INSTALLATION MANUALS  
AND OTHER ADDITIONAL PROJECT INFORMATION CAN BE ACCESSSED  
VIA QR CODES ON SHEET E314.



**INSTALLATION GUIDE**

**How To Install  
EV Cabinet GK400KW Series**



**Step by Step Installation**

- Step 1 – Set and Level EV Charger
- Step 2 – Pin the EV Charger
- Step 3 – Install the Uni-Strut
- Step 4 – Install the Upper Frame
- Step 5 – Pour Concrete



Safety First. © Bravo Systems, Inc.  
This product is designed and manufactured  
in accordance with applicable safety  
procedures and regulations  
provided by your company and to follow  
OSHA, local, state and federal regulations  
regarding the use of this product.



Even when used, full test cycles may identify  
on site conditions. Note that epoxy will not cure at  
temperatures below 40°F. See epoxy jar for more  
details.

UL2447 is the standard for secondary containment  
for hazardous materials and is required for  
hazardous materials and is required for  
accelerated conditions that have long term use in  
aggressive liquid and ethanol blends, and  
extreme soil environments.

**Get Bravo Certified Today – Contact Your Sales Manager**

EV CABINET

1

IG\_EV\_KONECT\_600W\_06.25

EV CABINET

2

IG\_EV\_KONECT\_600W\_06.25

EV CABINET

3

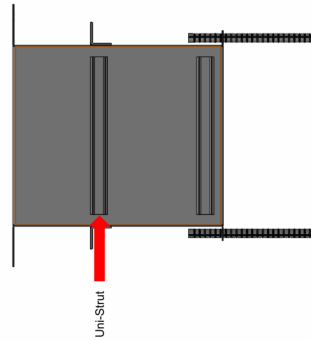
IG\_EV\_KONECT\_600W\_06.25



**How To Install  
EV Cabinet GK400KW Series**

**STEP 3 – INSTALL THE UNI-STRUT**

1. Use the factory installed Uni-Strut inside the frame to support conduits as needed.



EV CABINET

4

IG\_EV\_KONECT\_600W\_06.25

EV CABINET

5

IG\_EV\_KONECT\_600W\_06.25

EV CABINET

6

IG\_EV\_KONECT\_600W\_06.25

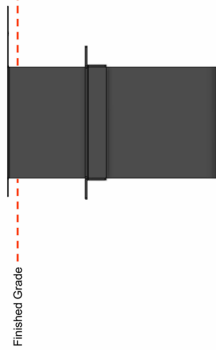
ELECTRICAL DETAILS – BRAVO SYSTEMS



**How To Install  
EV Cabinet GK400KW Series**

**STEP 1 – SET AND LEVEL EV CHARGER**

1. Set and level the EV charger mounting frame in the correct position with the top of the frame 1" above finished grade.
2. Make sure it is positioned correctly for the desired orientation of the charging unit.



When using and installing Bravo products, please consult local, state and federal regulations. Installers of Bravo products must be Bravo-certified.

EV CABINET

2

IG\_EV\_KONECT\_600W\_06.25

EV CABINET

3

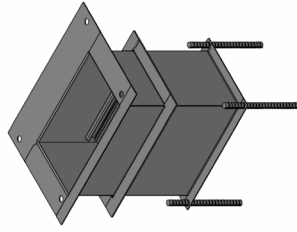
IG\_EV\_KONECT\_600W\_06.25



**How To Install  
EV Cabinet GK400KW Series**

**STEP 2 – PIN THE EV CHARGER**

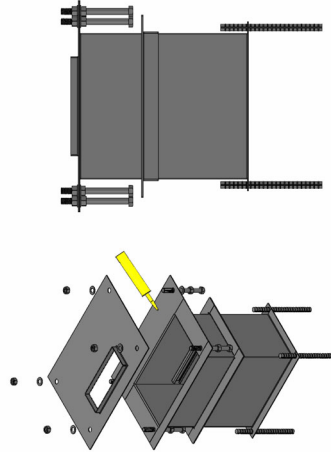
1. Use rebar to pin the frame in place using the holes in the mounting tabs at the bottom of the frame to keep it stationary during the concrete pour.



**How To Install  
EV Cabinet GK400KW Series**

**STEP 4 – INSTALL THE UPPER FRAME AND MOUNTING HARDWARE**

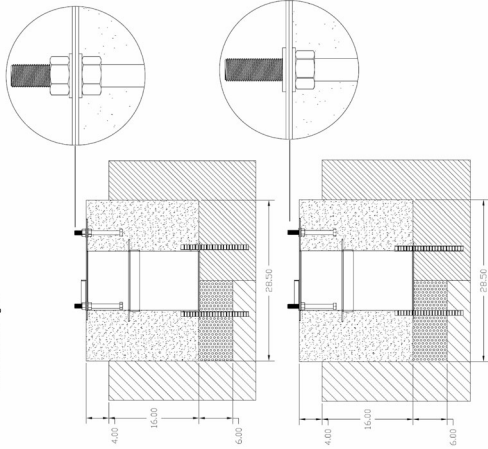
1. Using the provided urethane sealant run a bead around the perimeter of the upper flange before installing the upper frame using the provided mounting hardware. Be sure the proper length of threads are exposed above the frame to properly mount the charger with most of the bolt protruding downwards for proper concrete embedment.
2. Bolts should be tightened (one above the frame flange and one below) to secure the upper frame and the mounting bolt position.



**How To Install  
EV Cabinet GK400KW Series**

**STEP 5 – POUR CONCRETE**

1. After the concrete pour has cured remove the upper nut to expose the protruding threads used to mount the charger.



PROFESSIONAL SEAL

PRELIMINARY DATES  
MAY 15, 2026

REVIEW SET #1

JOB NUMBER  
260113500

SHEET NUMBER

**E312**

**EXCEL**  
Always a Better Plan  
100 Camelot Drive  
Ford Co. Inc. WI 54935  
920-929-9800  
excel@mgmfr.com

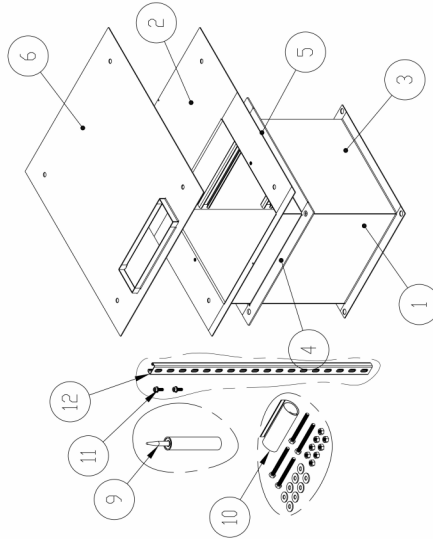
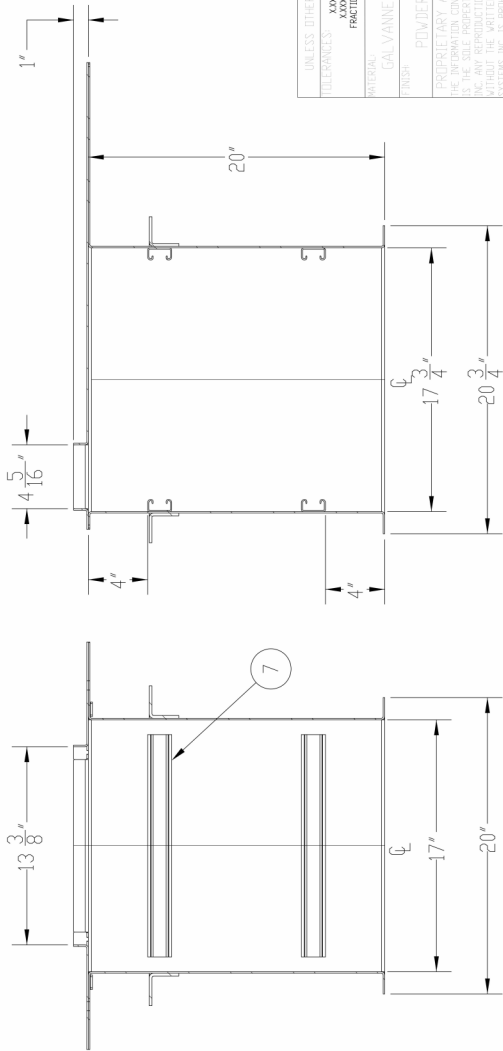
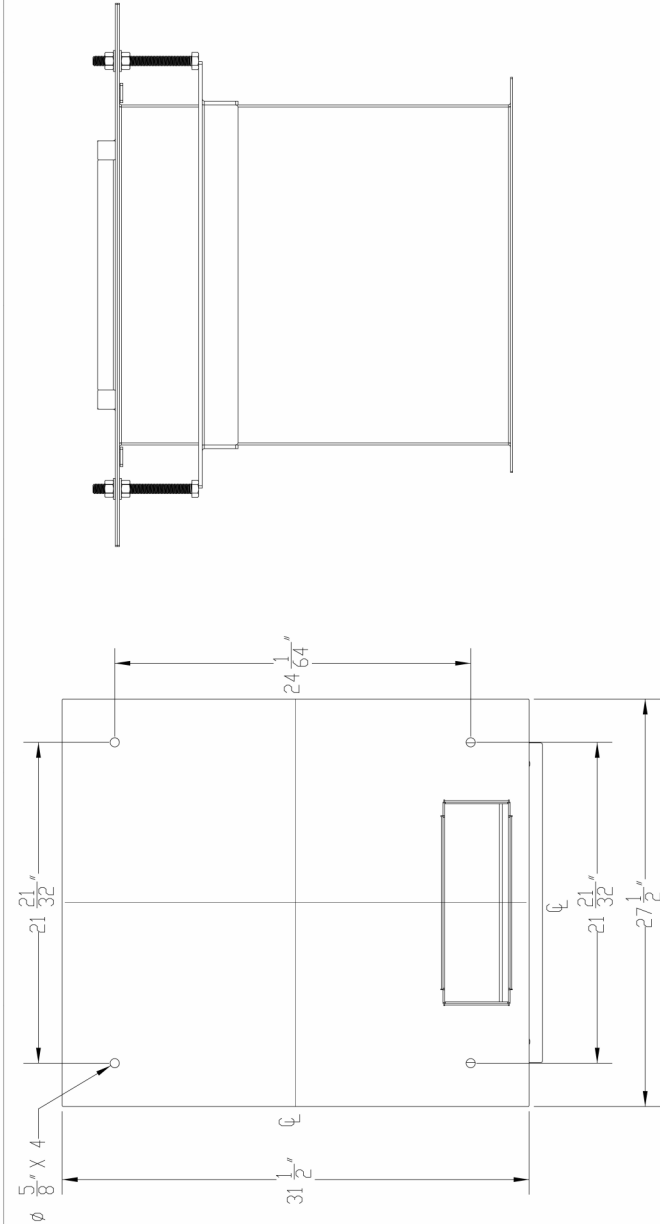
COLLIMATION



PROJECT INFORMATION

PROPOSED ALTERNATION FOR:  
**KWIK TRIP #1047**  
10923 W LAPHAM ST. • WEST ALLIS, WI

**GENERAL NOTE:** SPECIFICATION SHEETS, INSTALLATION MANUALS  
 ALL EQUIPMENT, MATERIALS, AND SUPPLIES LISTED IN THIS DRAWING  
 SHALL BE USED UNLESS OTHERWISE SPECIFIED. FOR ADDITIONAL  
 OTHER ADDITIONAL PROJECT INFORMATION CAN BE ACCESSED  
 VIA QR CODES ON SHEET E314.



ITEM NO.	PART NUMBER	QTY.
1	EV-GK400KW-AID-BODY	1
2	EV-GK400KW-AID-BODY-2	1
3	EV-GK400KW-AID-END	2
4	EV-GK400KW-AID-BODY-F-FLANGE	2
5	EV-GK400KW-AID-END-F-FLANGE	2
6	EV-GK400KW-AID-UPPER-FRAME	1
7	15" LONG GALV. LOW PROFILE UNI-STRUT	4
8	3/8"-16 WELD NUT	1
LOOSE ITEMS		
9	PS-290	1
10	K-204	1
11	3/8"-16 X 1" L HEX FLANGE HED	2
12	3' L GALV. LOW PROFILE UNI-STRUT	1



PROJECT INFORMATION

PROPOSED ALTERNATION FOR:  
**KWIK TRIP #1047**  
 10923 W LAPHAM ST. • WEST ALLIS, WI

PROFESSIONAL SEAL

PRELIMINARY DATES  
 MAY 15, 2026

REVIEW SET #1

JOB NUMBER  
 260113500

SHEET NUMBER  
**E313**

REV.	DATE	NAME	DATE
-	02-24-2026	AMACIAS	02-24-2026

UNLESS OTHERWISE SPECIFIED:  
 TELEBRANCES: XXX 4007  
 XXXX 4009  
 FRACTURING 10/07

MATERIAL: GALVANAILED STEEL  
 FINISH: POWDER COATED

DESCRIPTION:  
 EV-CABINET FOR  
 GILBARCO KONECT  
 400KW ALL-IN-ONE  
 CHARGER UNIT

LEGACY PART#: EV-GK400KW-AID

SERIES: N/A

SCALE: B

SHEET 1 OF 8

Electrical Details - Bravo Systems  
 X:\Solidworks Drawings\SSD\IDWORKS BRAVO\DWGS\B-EVD\EV-KONECT-600W-AID\EV-GK400KW-AID









KEYNOTES	
▲	REMOVE AND REGRADE CURB
◊	PROTECT

**EXCEL**  
Always a Better Plan  
100 Cornwell Drive  
Fond du Lac, WI 54935  
920-838-8800  
excelsign.com

**KWIK TRIP**  
**KWIK STAR**

PROJECT INFORMATION

PROPOSED ALTERATIONS FOR:  
**KWIK TRIP STORE #1047**  
10923 W LAPHAM ST • WEST ALLIS, WI 53214

PROFESSIONAL SEAL

PRELIMINARY DATES

MAY 19, 2026  
JUNE 6, 2026

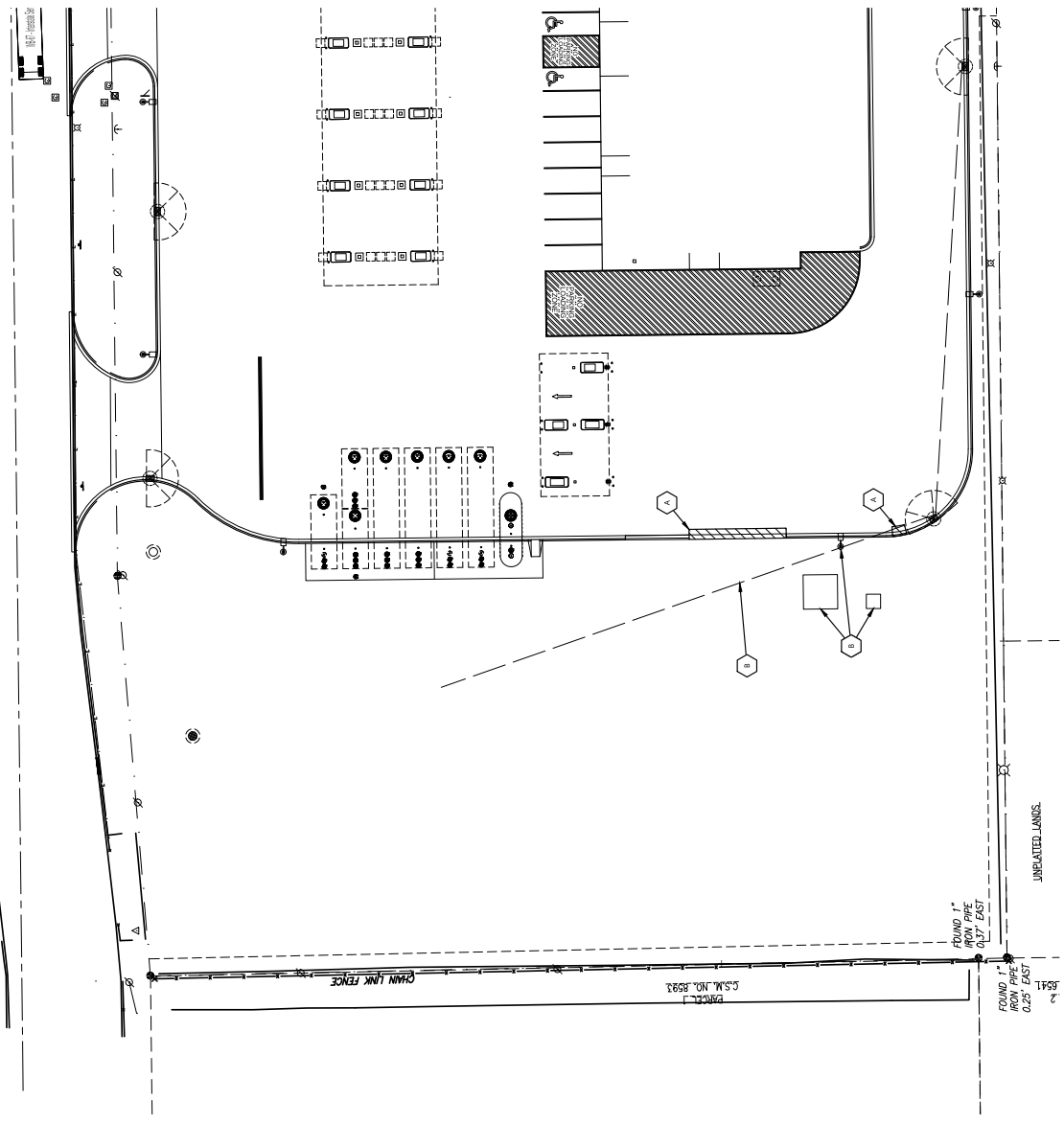
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JOB NUMBER

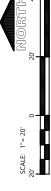
260113500

SHEET NUMBER

**C020**



EXISTING CONDITIONS NOTE:  
PRIOR TO CONSTRUCTION CONTRACTOR SHALL FIELD VERIFY ALL SITE IMPROVEMENTS,  
UTILITY LOCATIONS, INVERTS, SETZES, ETC. NOTIFY ENGINEER OF ANY DISCREPANCIES,  
FAILURE TO NOTIFY ENGINEER SHALL BE THE CONTRACTOR'S RESPONSIBILITY FOR ANY  
DAMAGES AS A RESULT OF FAILURE TO FIELD VERIFY.

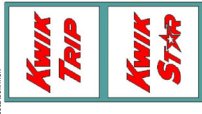


CIVIL EXISTING SITE AND DEMOLITION PLAN





100 Camelot Drive  
Fond Du Lac, WI 54605  
800-800-8800  
www.excelinc.com



PROJECT INFORMATION

PROPOSED ALTERATIONS FOR:  
**KWIK TRIP STORE #1047**  
10923 W LAPHAM ST • WEST ALLIS, WI 53214

PROFESSIONAL SEAL

PRELIMINARY DATES  
MAY 19, 2026  
JUNE 6, 2026

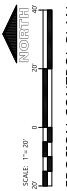
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260113500

SHEET NUMBER  
**C200**

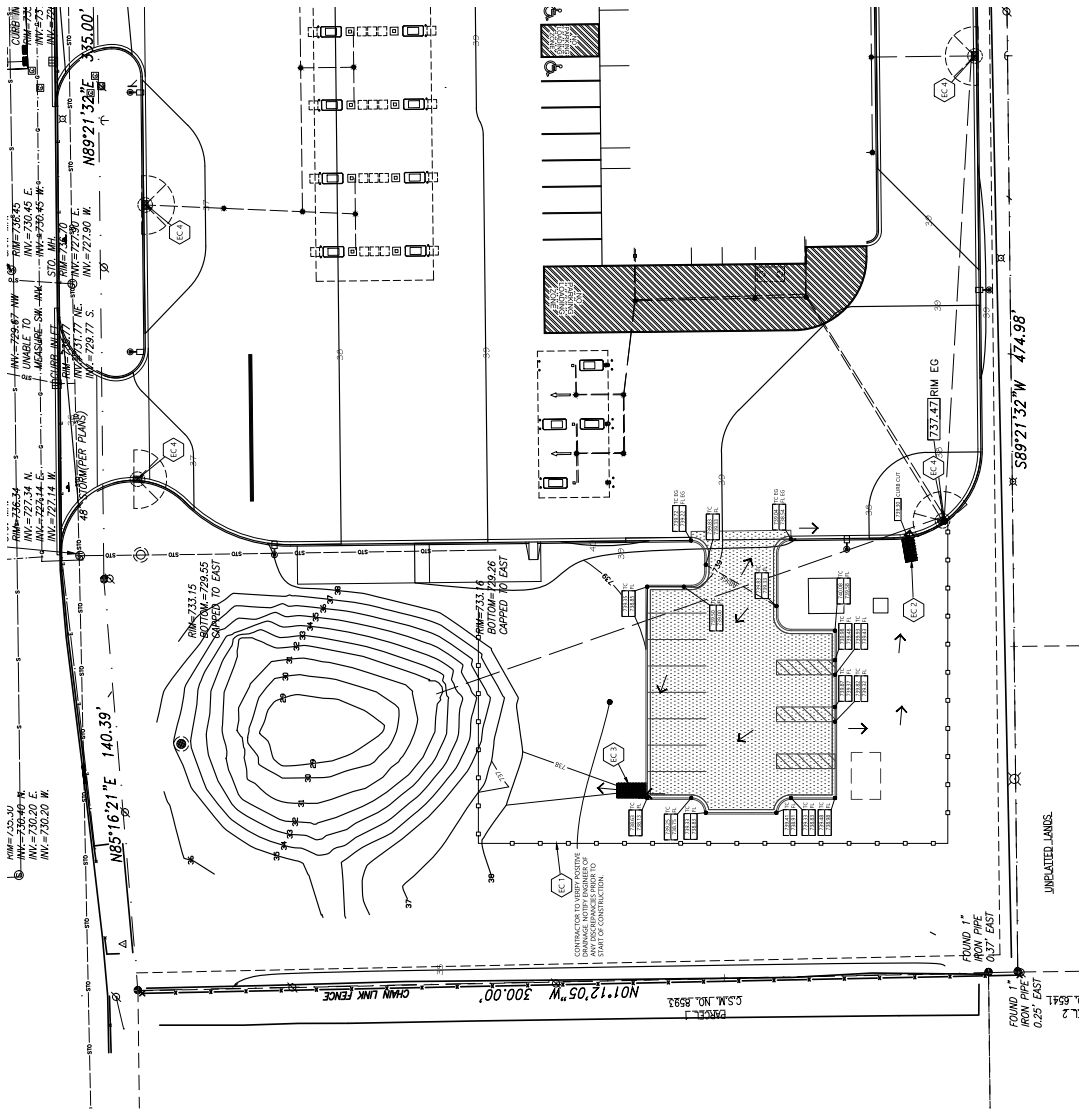
- GENERAL NOTES:**
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, DIVISION 10, AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR CONCRETE AND CURB AND GUTTER, DIVISION 20, AS APPLICABLE TO THIS PROJECT.
  - 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES.
  - 3. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ADJACENT PROPERTIES AND UTILITIES AT ALL TIMES.
  - 4. THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES AND STRUCTURES.
  - 5. THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE THROUGHOUT THE PROJECT.
  - 6. THE CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION AREAS TO PREVENT EROSION.
  - 7. THE CONTRACTOR SHALL PROVIDE CONCRETE WALKOUT AS REQUIRED BY THE LOCAL CODE.
  - 8. THE CONTRACTOR SHALL PROVIDE ADEQUATE EROSION CONTROL MEASURES TO PREVENT SEDIMENTATION DOWNSTREAM OF THE PROJECT SITE PER LOCAL CODE.

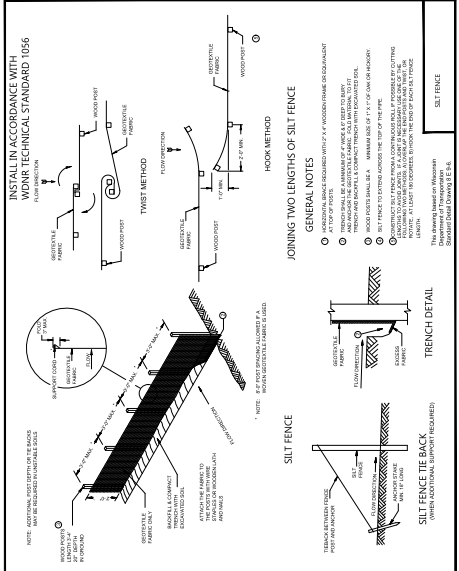
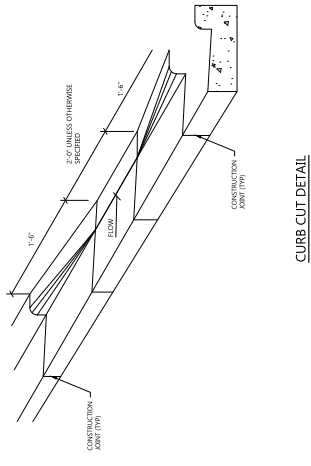
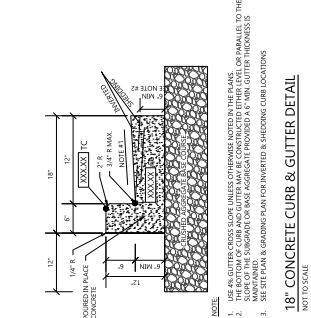
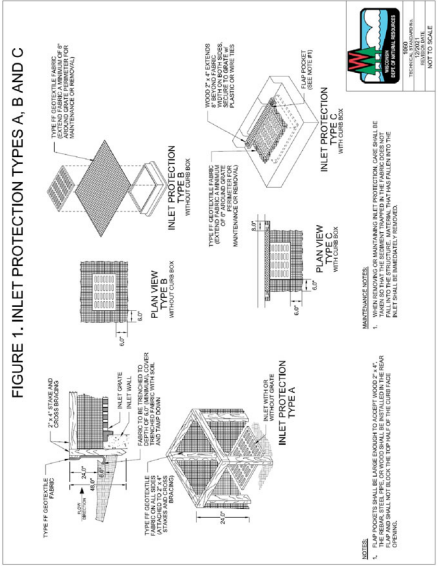
**KEYNOTES**

(EC-1)	36" FINISH
(EC-2)	4" X 8" CURB ON FABRIC
(EC-3)	3" X 6" CURB ON FABRIC
(EC-4)	INLET PROTECTION



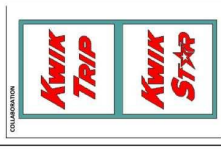
CIVIL GRADING AND EROSION CONTROL PLAN





Schedule		Symbol	Label	Manufacturer	Catalog Number	Lumens Per Lamp	Wattage
			EX.	Existing	Existing	23102	188
			EX.	Existing	Existing	16894	135
			EX.	Existing	Existing	3480	39
			EX.	Existing	Existing	16894	270
				Existing	Existing	16894	135
				Existing	Existing	16894	135
			EX.	Existing	Existing	14960	102
			P1F	LSI INDUSTRIES, INC.	MRS-LED-18L-SIL-FT-50-70CRI	16894	135

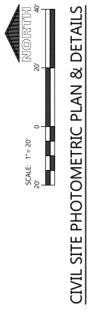
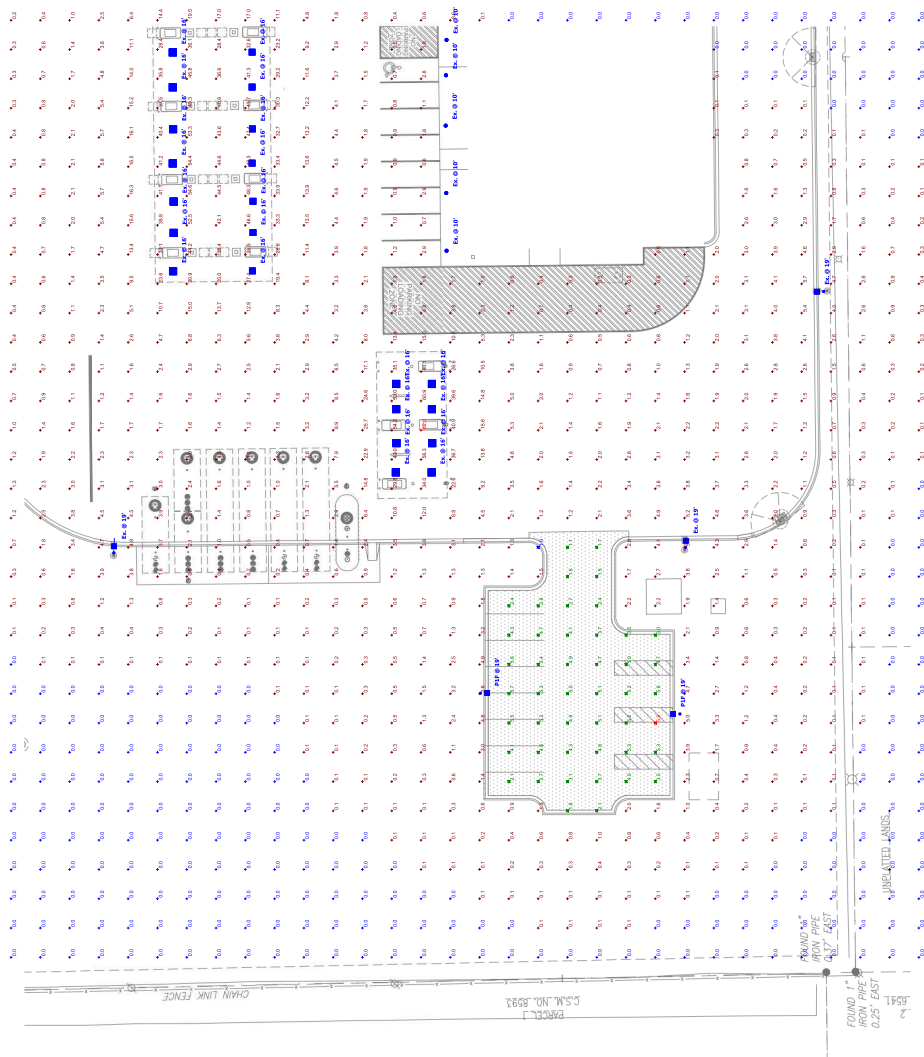
Statistics		Description	Avg	Symbol	Max	Min	Max/Min	Avg/Min
		#1047 KWIK TRIP	4.2 fc	+	62.3 fc	0.0 fc	N/A	N/A
		PARKING ADDITION	4.0 fc	X	5.9 fc	1.0 fc	5.9:1	4.0:1



PROPOSED ALTERATIONS FOR:  
**KWIK TRIP STORE #1047**  
 10923 W LAPHAM ST • WEST ALLIS, WI 53214

PRELIMINARY DATES:  
 MAY 19, 2025  
 JUNE 6, 2025  
 REVIEW SET #1

JOB NUMBER:  
 260113500  
 SHEET NUMBER:  
**C800**



CIVIL SITE PHOTOMETRIC PLAN & DETAILS