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PLANNING COMMISSION MEETING AGENDA REGULAR MEETING

David Lambert, Chairman, Marianna Perakis, Vice Chairman Toby Buechner, Carlton Faison, Tyler Fox, Michael W. Hutson, Tom Krent, Lakshmi Malalahalli and John J. Tagle

May 9, 2023

7:00 P.M.

Council Chambers

- 1. ROLL CALL
- 2. <u>APPROVAL OF AGENDA</u>
- 3. <u>APPROVAL OF MINUTES</u> April 11, 2023
- 4. PUBLIC COMMENT For Items Not on the Agenda

SPECIAL USE APPROVAL AND PRELIMINARY SITE PLAN APPROVAL

 <u>PUBLIC HEARING – SPECIAL USE APPROVAL AND PRELIMINARY SITE PLAN</u> <u>REVIEW (SU JPLN2023-0002)</u> - Proposed Kroger D-463 Fuel Station, West side of John R, South of Larchwood (PIN 88-20-26-435-029, 88-20-26-433-019, -020 & -021), Section 26, Currently Zoned IB (Integrated Industrial & Business) District

OTHER ITEMS

- 6. <u>PUBLIC COMMENT</u> For Items on the Agenda
- 7. PLANNING COMMISSION COMMENT
- 8. <u>ADJOURN</u>

NOTICE: People with disabilities needing accommodations for effective participation in this meeting should contact the City Clerk by e-mail at <u>clerk@troymi.gov</u> or by calling (248) 524-3317 at least two working days in advance of the meeting. An attempt will be made to make reasonable accommodations

Chair Lambert called the Regular meeting of the Troy City Planning Commission to order at 7:02 p.m. on April 11, 2023, in the Council Boardroom of the Troy City Hall. Chair Lambert and Vice Chair Perakis presented opening remarks relative to the role of the Planning Commission and procedure of tonight's meeting.

1. ROLL CALL

<u>Present:</u> Toby Buechner Carlton M. Faison Tyler Fox Tom Krent David Lambert Lakshmi Malalahalli Marianna Perakis John J. Tagle

<u>Absent:</u> Michael W. Hutson

<u>Also Present:</u> Ben Carlisle, Carlisle Wortman & Associates R. Brent Savidant, Community Development Director Julie Quinlan Dufrane, Assistant City Attorney Jackie Ferencz, City of Troy staff

2. <u>APPROVAL OF AGENDA</u>

Resolution # PC-2023-04-22

Moved by: Perakis Support by: Fox

RESOLVED, To approve the Agenda as prepared.

Yes: All present (8) Absent: Michael W. Hutson

MOTION CARRIED

3. <u>APPROVAL OF MINUTES</u> – March 14, 2023

Resolution # PC-2023-04-23

Moved by: Buechner Support by: Krent

RESOLVED, To approve the minutes of the March 14, 2023 Regular meeting as submitted.

Yes: All present (8) Absent: Michael W. Hutson

MOTION CARRIED

4. <u>PUBLIC COMMENT</u> – For Items Not on the Agenda

There was no one present who wished to speak.

5. MASTER PLAN -

Presentation of completed Master Plan given by Mr. Carlisle. Mr. Carlise gave emphasis to:

- Neighborhood Nodes and updates in language.
- Process, as it relates to approval of Masterplan

Discussion followed.

Some key discussion points:

- 63 Public Review period
- The Master Plan survey
- Dates to be corrected or placed in the Master Plan document
- Census data
- LEED businesses in Troy
- Sustainability
- Parks and Recreation Plan

Resolution # PC-2023-04-24

Moved by: Perakis Support by: Buechner

RESOLVED, to recommend to the City Council to release the Master Plan for the 63 day public review period.

Yes: All present (8) Absent: Michael W. Hutson

MOTION CARRIED

6. <u>BYLAWS</u>

Ms. Dufrane reviewed input received from Planning Commission members. Ms. Dufrane will make corrections as discussed with Board.

7. PLANNING COMMISSION COMMENT -

Mr. Savidant gave an update from March 20, 2023 City Council meeting relating to the Estates of Eckford project.

There were general comments some related to:

- ZBA representative will provide updates to Planning Commission going forward
- Turtle Creek Preserve parking for visitors

8. <u>ADJOURN</u>

The Regular meeting of the Planning Commission adjourned at 8:50 p.m.

Respectfully submitted,

David Lambert, Chair

Jackie Ferencz, Planning Department staff

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ITEM #5

- DATE: May 4, 2023
- TO: Planning Commission
- FROM: R. Brent Savidant, Community Development Director
- SUBJECT: <u>PUBLIC HEARING SPECIAL USE APPROVAL AND PRELIMINARY SITE</u> <u>PLAN REVIEW (SU JPLN2023-0002)</u> - Proposed Kroger D-463 Fuel Station, West side of John R, South of Larchwood (PIN 88-20-26-435-029, 88-20-26-433-019, -020 & -021), Section 26, Currently Zoned IB (Integrated Industrial & Business) District

The petitioner The Kroger Company submitted the above referenced Special Use Approval and Preliminary Site Plan Approval application for a new fuel station on a vacant site.

The attached report prepared by Carlisle/Wortman Associates, Inc. (CWA), the City's Planning Consultant, summarizes the application. CWA prepared the report with input from various City departments including Planning, Engineering, Public Works and Fire. City Management supports the findings of fact contained in the report and recommends approval of the project, as noted.

Attachments:

- 1. Maps
- 2. Report prepared by Carlisle/Wortman Associates, Inc.
- 3. Special Use Application.

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PROPOSED RESOLUTION

PUBLIC HEARING – SPECIAL USE APPROVAL AND PRELIMINARY SITE PLAN

<u>REVIEW (SU JPLN2023-0002)</u> - Proposed Kroger D-463 Fuel Station, West side of John R, South of Larchwood (PIN 88-20-26-435-029, 88-20-26-433-019, -020 & -021), Section 26, Currently Zoned IB (Integrated Industrial & Business) District

Resolution # PC-2023-05-

Moved by: Seconded by:

RESOLVED, That Special Use Approval and Preliminary Site Plan Approval for the proposed Kroger D-463 Fuel Station, West side of John R, South of Larchwood (PIN 88-20-26-435-029, 88-20-26-433-019, -020 & -021), Section 26, Currently Zoned IB (Integrated Industrial & Business) District, be (granted, subject to the following conditions):

) or
(denied, for the following reasons:) or
(postponed, for the following reasons:)

- 1) Allow the applicant the opportunity to amend the application, if necessary, based on Planning Commission discussion.
- 2) Allow the applicant the opportunity to submit an alley vacation application and the Planning Commission to hold a public hearing.

Yes: No: Absent:

MOTION CARRIED / FAILED

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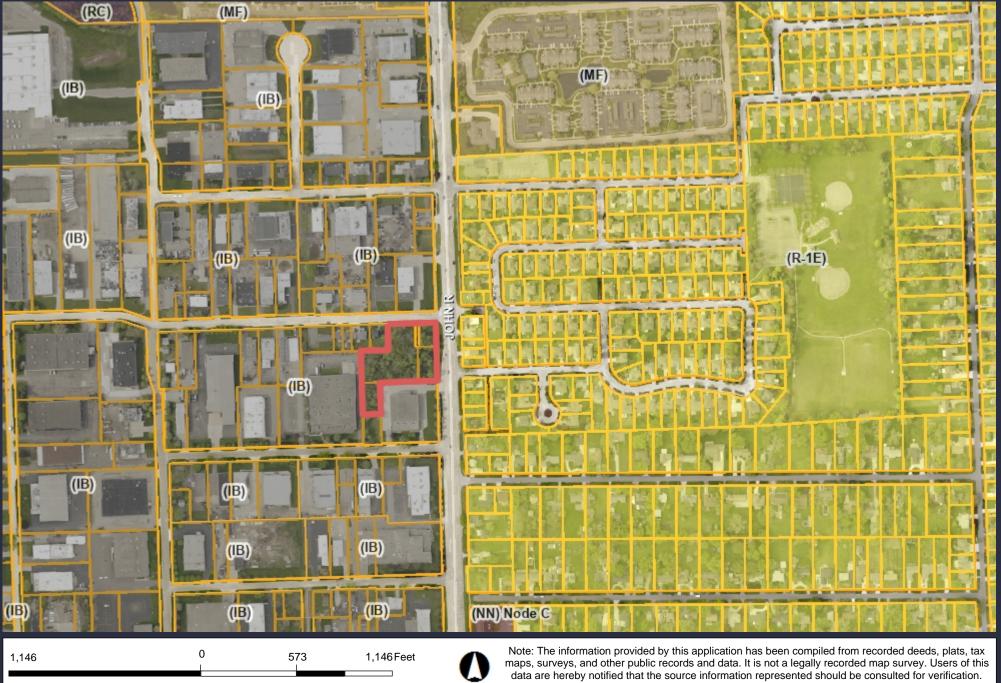


GIS Online





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

Date: April 20, 2023 May 2, 2023

Preliminary Site Plan and Special Use Review For City of Troy, Michigan

Project Name:	Kroger D463 Retail Fuel Center
Plan Date:	April 28, 2023
Location:	SW Corner of Larchwood Drive and John R Road
Zoning:	IB, Integrated Industrial and Business
Action Requested:	Site Plan and Special Use Approval

PROJECT AND SITE DESCRIPTION

The applicant is proposing to construct a fuel center on a portion of a currently vacant wooded lot. The 1.87-acre site is located at the southwest corner of John R and Larchwood Drive.

The applicant is proposing the construction of a fuel center on the east side of the property with eight (8) fueling stations totaling 8 islands (16 pumps), a five hundred and thirty-four (534) square foot store, and four (4) parking spaces (one handicap). The portions of the property nearest to the southwestern neighboring parcels will be left vacant and wooded. The site is currently vacant. Access will be via one point off John R Road and one point off Larchwood Drive.

Fuel centers are a special use in the IB, Integrated Industrial and Business District.

Kroger Fuel Center May 2, 2023

Location of Subject Property:

SW Corner of Larchwood Drive and John R Road



Proposed Use of Subject Parcel: Fuel Center

Current Zoning:

The property is zoned IB, Integrated Industrial and Business

Surrounding Property Details

Direction	Zoning	Use
North	IB, Integrated Industrial and Business	Office/Light Industrial/Warehouse
South	IB, Integrated Industrial and Business	Office/Light Industrial/Warehouse
East	IB, Integrated Industrial and Business	Office/Light Industrial/Warehouse
	R-1E, One Family Residential	Single family residences

West	IB, Integrated Industrial and Business	Office/Light Industrial/Warehouse
		Single family residences

NATURAL FEATURES

A land survey is included in the site plan. The applicant has included a tree inventory and removal plan on sheet L1.21. Ninety-six (96) trees will be removed and twenty-three (23) will be preserved. We note that most of the trees removed are on the prohibited list and include box elder, silver maple, elm, and cottonwood. The applicant is removing 20.5 inches of protected trees and replacing them with five (5) new trees.

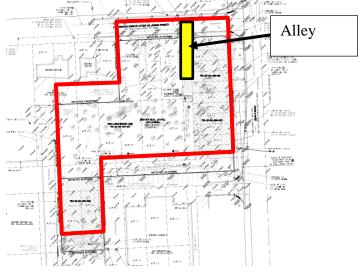
Items to be Addressed: None

ALLEY VACATION

There is a small portion of an unimproved alley that is located off Larchwood, which partially bisects the site. The site cannot be developed as is without a alley vacation. An alley vacation is a type of easement in which the City transfers the right-of-way of the alley to a private property owner.

Alley vacation can be considered as part of the site plan process; however, it does require a public hearing by the Planning Commission.

Items to be Addressed: The applicant shall submit a vacation application in order to schedule the public hearing.



SITE AND BUILDING ARRANGEMENT

The applicant is proposing the construction of a fuel center on the east side of the property with eight (8) fueling stations totaling 8 islands (16 pumps), a five hundred and thirty-four (534) square foot store, and four (4) parking spaces (one handicap). One twenty thousand (20,000) gallon storage tank and one eighteen thousand (18,000) gallon underground storage tank are proposed in the southwest corner of the development area. The portions of the property nearest to the southwestern neighboring parcels will be left vacant and wooded.

The proposed developed portion of this subject site occupies a twenty-four thousand (24,000) square feet rectangular area, situated in the northwest corner of the property. The fueling station will be arranged in the center of this developed area, with drive access around the entire fueling area. The transaction kiosk will sit in the center of the fueling area. The four parking spaces will be lined up on the northwestern corner of the developed area, running in a row from north to south.

Kroger Fuel Center May 2, 2023

As part of the Planning Commission discussion, there should be consideration if a larger convenience store should be provided, which would better serve the surrounding neighborhood, including the neighborhood across John R. Road.

Items to be Addressed: As part of the Planning Commission discussion, there should be consideration if a larger convenience store should be provided, which may better serve the surrounding neighborhood, including across John R. Road.

BULK STANDARDS

The dimensional requirements for the IB district are indicated below.

	Required	Provided	Compliance
Front Setback (John Road)	30 feet	80 feet	Complies
Rear Setback	20 feet	100 feet	Complies
Side Setbacks: Least	10 feet	50-feet	Complies
Side Setbacks: Total	20 feet	95-feet	Complies
Maximum building lot coverage	40%	7%	Complies
Maximum building height	50 feet	20 feet	Complies

Items to be Addressed: None

SITE ACCESS AND CIRCULATION

Two access points are proposed: one along Larchwood Avenue and one along John R Road. Both access drives will offer two-way traffic into and out of the fueling center.

Items to be Addressed: None

PARKING

Vehicle fueling centers require the following parking as set forth in table 13.06.a:

	Required	Provided
1 space for each 125 square feet of net floor area, plus 2 parking spaces per fueling station	16 spaces at 8 fueling islands + 375 square feet / 125 = 3 spaces	16 at fueling pumps and 4 spaces for kiosk
Loading zone	10 feet x 50 feet	10 feet x 50 feet

Kroger Fuel Center May 2, 2023

Based on the size of the store, the parking provided is sufficient. However, if the store is enlarged based on discussion with the Planning Commission, there is room to add additional parking on site. The applicant should consider adding a few additional spaces to accommodate EV fueling.

Items to be Addressed: The applicant should consider adding a few additional spaces to accommodate EV fueling.

LANDSCAPING

A landscaping plan has been provided on Sheet L-1.0. The following table discusses the development's compliance with the landscape requirements set forth in Section 13.02.

	Required:	Provided:	Compliance:
Greenbelt Planting			
John R:	255 ft / 30 = 9 trees	9 trees	Complies
1 tree every 30 feet			
Larchwood:	210 ft/ 30 = 7 trees	7 trees	Complies
1 tree every 30 feet			
Parking Lot Landscaping			
1 tree per every 8 parking	4 spaces / 8 = 1 tree	1 tree	Complies
spaces			
Screening Between Land			
Use			
1 tree per 10 lineal feet or	11 large deciduous	11 trees	Complies
wall			
Overall			
Site landscaping	20%	47%	Complies

A trash enclosure is located at the southwest portion of the site. The applicant proposes to screen the enclosure with a masonry wall.

Items to be Addressed: None

PHOTOMETRICS

The applicant has provided a photometric plan indicating the placement of thirty (30) ceiling-mounted lights on the fueling station canopy, six (6) parking lot lights, and two (2) building lights. The photometrics are compliant at the property lines but we note that the footcandles are a maximum of 53.9 under the canopy. That is extremely bright, especially in consideration of residential across John R.

There is no specific lighting requirement for gas station canopy lighting but we note that for pole mounted lights the maximum is 20 foot candles. Because this is a special use the Planning Commission may place conditions upon the application including restricting light intensity. The applicant should reduce lighting intensity under the canopy.

Items to be Addressed: Reduce light intensity under the canopy.

ELEVATIONS AND FLOOR PLANS

The applicant has provided elevations and floor plans for the transaction kiosk, canopy, and fueling stations. The elevations indicate a typical fueling center design with a CMU base, brick façade and metal fascia. The canopy matches the material of the building with a CMU base, brick façade and metal fascia. The canopy and kiosk fascia colors are sandstone and oyster, and six (6) red bollards are proposed around the kiosk perimeter.

To better understand the proposed color scheme, the applicant has provided a color rendering. Planning Commission should consider the proposed architectural details.

Items to be Addressed: Planning Commission should consider the proposed architectural details.

FUELING CENTER DESIGN STANDARDS

There are specific provisions for fueling centers, set forth in Section 6.28:

A. The minimum lot area shall be one (1) acre. The site is +/- 1.844 acres.

The following minimum setbacks shall apply to canopies and pump facilities construction in conjunction with fueling centers.

Setback	Canopy	Canopy	Pump Island	Pump Island	Canopy	Canopy
	Support	Support	Required	Provided	Edge	Edge
	Required	Provided			Required	Provided
Front	35 feet	65.8 feet	30 feet	65.5 feet	25 feet	55 feet
Side	20 feet	50.8 feet	20 feet	50.5 feet	10 feet	40 feet
Rear	30 feet	100.8 feet	20 feet	94.5 feet	20 feet	88 feet

- 1. All fueling areas shall be arranged so that motor vehicles do not park on or extend over abutting landscaped areas, sidewalks, streets, buildings, or adjoining property while being served.
- B. Canopy structures shall be designed and constructed in a manner which is architecturally compatible with the principal building. The canopy structure shall be attached to and made an integral part of the principal building unless can be demonstrated that the design of the building and canopy in combination would be more functional and aesthetically pleasing if the canopy was not physically attached to the principal building. Required fire protection devices under the canopy shall be architecturally screened so that the tanks are not directly visible from the street. The screens shall be compatible with the design and color of the canopy.
- C. Pedestrian Circulation
 - 1. Vehicle Fueling / multi-use stations shall be designed in a manner which promotes pedestrian and vehicular safety.

2. The parking and circulation system within each development shall accommodate the safe movement of vehicles, bicycles, pedestrians and refueling activities throughout the proposed development and to and from surrounding areas in a safe and convenient manner.

Items to be addressed: None

SPECIAL USE STANDARDS

For any special use, according to Section 9.02.D, the Planning Commission shall "…review the request, supplementary materials either in support or opposition thereto, as well as the Planning Department's report, at a Public Hearing established for that purpose, and shall either grant or deny the request, table action on the request, or grant the request subject to specific conditions."

Section 9.03 states that before approving any requests for Special Use Approval, the Planning Commission shall consider:

- 1. Compatibility with Adjacent Uses.
- 2. Compatibility with the Master Plan.
- 3. Traffic Impact.
- 4. Impact on Public Services.
- 5. Compliance with Zoning Ordinance Standards.
- 6. Impact on the Overall Environment.
- 7. Special Use Approval Specific Requirements.

Provided that the applicant addresses our site plan issues noted above, we support the special use and find:

- 1. The IB District provides for a variety of uses including fueling centers.
- 2. There are several auto-oriented uses along Larchwood Drive and John R. The use of a fueling center is compatible with surrounding automobile, office, light industrial and warehouse uses.
- 3. If the applicant were to incorporate EV parking, the installation would be consistent with City sustainability goals.
- 4. The proposed use should not require any additional public services that required for a permitted use.
- 5. Traffic should not be significantly impacted by the use.

Items to be addressed: Address site plan uses as noted

SITE PLAN REVIEW STANDARDS

The Site Plan review standards provide the Planning Commission with direction when reviewing the proposed site plan and design features of this development.

Section 8.06 outlines Site Plan Review Design Standards.

1. Development shall ensure compatibility to existing commercial districts and provide a transition between land uses.

- a. Building design shall enhance the character of the surrounding area in relation to building and parking placement, landscape and streetscape features, and architectural design.
- b. Street fronts shall provide a variety of architectural expression that is appropriate in its context and prevents monotony.
- c. Building design shall achieve a compatible transition between areas with different height, massing, scale, and architectural style.
- 2. Development shall incorporate the recognized best architectural building design practices.
 - a. Foster a lasting impact on the community through the provision of high quality design, construction, and detailing.
 - b. Provide high quality, durable materials, such as but not limited to stone, brick, glass, and metal. E.I.F.S. or material equivalent shall only be used as an accent material.
 - c. Develop buildings with creativity that includes balanced compositions and forms.
 - d. Design roofs that are appropriate to the architectural style of the building and create an appropriate visual exterior mass of the building given the context of the site.
 - e. For commercial buildings, incorporate clearly defined, highly visible customer entrances using features such as canopies, porticos, arcades, arches, wing walls, ground plane elements, and/or landscape planters.
 - f. Include community amenities that add value to the development such as patio/ seating areas, water features, art work or sculpture, clock towers, pedestrian plazas with park benches or other features located in areas accessible to the public.
- 3. Enhance the character, environment and safety for pedestrians and motorists.
 - a. Provide elements that define the street and the pedestrian realm.
 - b. Create a connection between the public right of way and ground floor activities.
 - c. Create a safe environment by employing design features to reduce vehicular and pedestrian conflict, while not sacrificing design excellence.
 - *d.* Enhance the pedestrian realm by framing the sidewalk area with trees, awnings, and other features.
 - e. Improve safety for pedestrians through site design measures.

Items to be Addressed: Planning Commission to consider if the site plan standards have been met.

SUMMARY

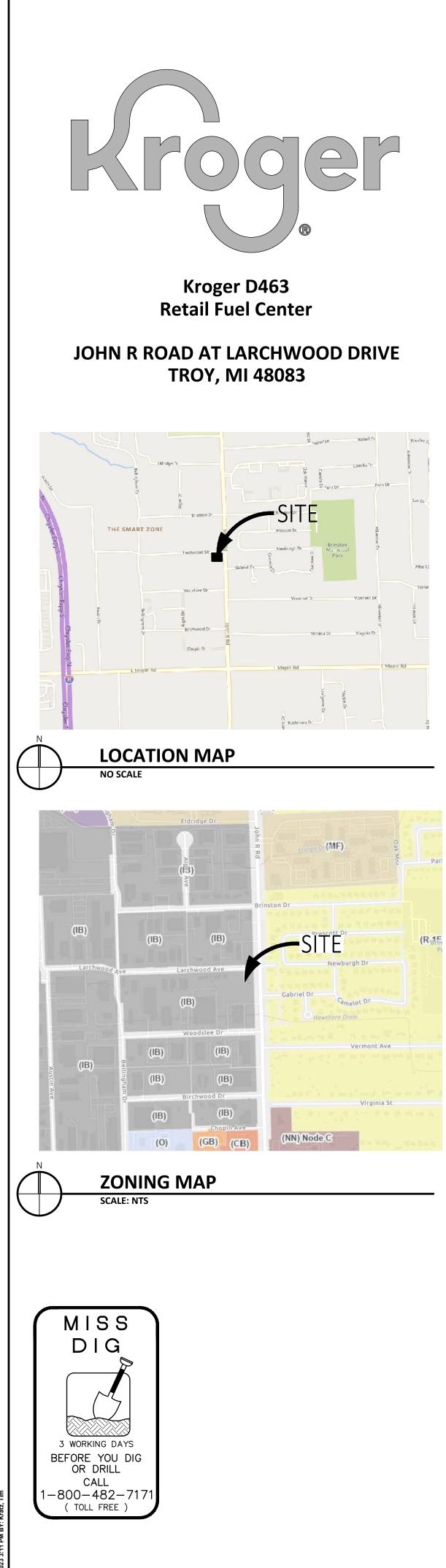
The Planning Commission is asked to hold a public hearing and have discussion on the following items:

- 1. Use of the property as a gas station
- 2. Consideration if a larger convenience store should be provided, which would better serve the surrounding neighborhood, including across John R. Road.
- 3. Adding additional parking spaces for EV fueling.
- 4. Architecture and design of kiosk.
- 5. Reduce light intensity under the canopy.
- 6. Special Use standards set forth in Section 9.02.D
- 7. Site plan standards set forth in Section 8.06

We recommend the Planning Commission postpone approval to 1); allow the applicant to amend the application, if necessary, based on Planning Commission discussion, and 2). Allow the applicant to submit an alley vacation application and the Planning Commission to hold a public hearing.

Kroger Fuel Center May 2, 2023

Burnh. Cach CARLISLE/WORTMAN ASSOC., INC. Benjamin R. Carlisle, LEED AP, AICP



PROJECT DESCRIPTION				
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 ONE (1) 6,880 SF CAN ONE (1) 534 GSF KIOS EIGHT (8) DISPENSER 	NOPY SK BUILDING		CEL CONSISTING OF:	
SITE NOTES	IJLANDJ			
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1 1		/ELL-GROUP DATED: 03/16		
PARCEL INFORMATION				
PARCEL NUMBERS:		20-26-433-019 20-26-433-020 20-26-433-021 20-26-433-029		
OWNER:		BOSTIC REAL ESTATE, LL	С.	
ACRES:		OUTLOT: +/- 1.874 AC	CRES	
BUILDING CODE REVIEW				
ACCESSIBILITY CODE	ANSI/ICC A	4117.1 - 2009		
BUILDING CODE	2015 MICH	HIGAN BUILDING CODE		
ELECTRICAL CODE	2017 NATI	ONAL ELECTRICAL CODE (NEC)	
ENERGY CODE	2015 MICH	HIGAN ENERGY CODE		
MECHANICAL CODE	2015 MICH	HIGAN MECHANICAL COD	E	
PLUMBING CODE	2018 MICH	HIGAN PLUMBING CODE		
FUEL GAS CODE	2015 INTE	RNATIONAL FUEL GAS CO	DE (2015 IFGC) - MICHIO	GAN UPDATE
ZONING ORDINANCE REV	/IEW			
ZONING ORDINANCE	TROY, MIC	CHIGAN ZONING ORDINAN	ICE - EFFECTIVE NOVEM	BER 17, 2021
ZONING MAP		CHIGAN ZONING OVERVIE 1ARCH 24, 2022	W MAP - ADOPTED APRI	L 18, 2011 -
SITE ZONING	IB - INTEGI	RATED INDUSTRIAL AND B	USINESS	
PERMITTED USE	NO - ARTIC	CLE 6.28 VEHICLE FUELING	MULTI-USE STATION	
BULK REGULATIONS				
ITEM		REQUIRED	PROPOSED	ORDINANCE
		REQUIRED	PROPOSED	ORDINANCE
ITEM		REQUIRED 1 ACRE	PROPOSED 70,610 ± SF (1.62 AC)	ORDINANCE SECTION 6.28
ITEM LOT REQUIREMENTS:	5:			
ITEM LOT REQUIREMENTS: MIN. LOT AREA	5:			
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS		1 ACRE	70,610 ± SF (1.62 AC)	
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT		1 ACRE REQUIRED	70,610 ± SF (1.62 AC) PROPOSED	
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI		1 ACRE REQUIRED 35'	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8'	
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI SIDE (SOUTH)		1 ACRE REQUIRED 35' 20'	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8'	
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ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) PUMP ISLAND SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) CANOPY EDGE SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH)	HWOOD)	1 ACRE REQUIRED 35' 20' 30' REQUIRED 30.0' 20' 20' 20' 20' 20' 20' 20' 2	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8' 100.8' PROPOSED 86.5' / 65.5' 50.5' 94.5' PROPOSED 80.0' / 55.0' 40.0'	SECTION 6.28
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) PUMP ISLAND SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) CANOPY EDGE SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR	HWOOD) HWOOD) HWOOD) HWOOD)	1 ACRE REQUIRED 35' 20' 30' REQUIRED 30.0' 20' 20' 20' 20' 20' 20' 20' 2	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8' 100.8' PROPOSED 86.5' / 65.5' 50.5' 94.5' PROPOSED 80.0' / 55.0' 40.0'	SECTION 6.28
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) PUMP ISLAND SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) CANOPY EDGE SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR PARKING REQUIREMENTS	HWOOD)	1 ACRE REQUIRED 35' 20' 30' REQUIRED 30.0' 20' 20' 20' REQUIRED 25' 10' 20' 20'	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8' 100.8' PROPOSED 86.5' / 65.5' 50.5' 94.5' PROPOSED 80.0' / 55.0' 40.0' 888.0'	SECTION 6.28
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) PUMP ISLAND SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR (WEST) CANOPY EDGE SETBACK FRONT (JOHN R / LARCI SIDE (SOUTH) REAR PARKING REQUIREMENTS MIN. STANDARD SPACE	HWOOD)	1 ACRE REQUIRED 35' 20' 30' REQUIRED 30.0' 20' 20' 20' 20' 20' 20' 20' 2	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8' 100.8' PROPOSED 86.5' / 65.5' 50.5' 94.5' PROPOSED 80.0' / 55.0' 40.0' 88.0' 9.5' x 19.0' (16) PARKING SPACES AT THE FUELING PUMPS AND (4) PARKING SPACES FOR	SECTION 6.28
ITEM LOT REQUIREMENTS: MIN. LOT AREA SETBACK REQUIREMENTS CANOPY SUPPORT FRONT (JOHN R / LARCH SIDE (SOUTH) REAR (WEST) PUMP ISLAND SETBACK FRONT (JOHN R / LARCH SIDE (SOUTH) REAR (WEST) CANOPY EDGE SETBACK FRONT (JOHN R / LARCH SIDE (SOUTH) REAR PARKING REQUIREMENTS MIN. STANDARD SPACE	HWOOD) HWOOD) HWOOD) HWOOD) HWOOD) HWOOD) HWOOD) HWOOD) HWOOD	1 ACRE REQUIRED 35' 20' 30' REQUIRED 30.0' 20' 20' 20' 20' 20' 20' 20' 2	70,610 ± SF (1.62 AC) PROPOSED 80.0' / 65.8' 50.8' 100.8' PROPOSED 86.5' / 65.5' 50.5' 94.5' PROPOSED 80.0' / 55.0' 40.0' 88.0' 9.5' x 19.0' (16) PARKING SPACES AT THE FUELING PUMPS AND (4) PARKING SPACES FOR THE KIOSK.	SECTION 6.28

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	DESCRIPTION	ADDRESS	CONTACT
	DEVELOPER	THE KROGER CO. OF MICHIGAN 40393 GRAND RIVER AVENUE NOVI, MICHIGAN 48375	GARETT FOLEY 248.957.2261
(FUEL)	PROJECT CONSULTANT	SEVAN MULTI-SITE SOLUTIONS 3025 HIGHLAND PARKWAY, SUITE 850 DOWNERS GROVE, IL 60515	TIM KRATZ 219.841.6535
	SURVEYOR	ATWELL TWO TOWNE SQUARE SUITE 700 SOUTHFIELD, MI 48076	MICHAEL D. EMBREE 248.447.2000
	CIVIL ENGINEER	SEVAN ENGINEERING 3025 HIGHLAND PARKWAY, SUITE 850 DOWNERS GROVE, IL 60515	TIM KRATZ, P.E. 219.841.6535
(FUEL)	FUEL ARCHITECT	GALLOWAY 6162 S. WILLOW DRIVE, SUITE 320 GREENWOOD VILLAGE, CO 80111	DAVID JONES 303.770.8884
	TANK AND PIPING	GALLOWAY 6162 S. WILLOW DRIVE, SUITE 320 GREENWOOD VILLAGE, CO 80111	DAVID JONES 303.770.8884
	KIOSK VENDOR	MCGEE CORPORATION 12701 EAST INDEPENDENCE BLVD. MATTHEWS , NC 28105	KENNETH EARLEY 918.622.1191
	CANOPY VENDOR	FASHION 1019 NORTH STREET - P.O. BOX 1050 OTTAWA, KANSAS 66067	 785.242.8111
	PLANNING DEPARTMENT	COMMUNITY DEVELOPMENT DIRECTOR 500 W. BIG BEAVER RD TROY, MI 48084	R. BRENT SAVIDANT 248.524.3364
	ENGINEER	CITY ENGINEER 500 W. BIG BEAVER RD TROY, MI 48084	G. SCOTT FINLAY 248.524.3383
Ď	BUILDING DEPARTMENT	BUILDING DEPARTMENT 500 W. BIG BEAVER RD TROY, MI 48084	FRONT DESK 248.524.3344

SHEET IND	ΓY									
		SITE PLAN SPECIAL USE 03.27.2023	SITE PLAN AND SPECIAL USE REVISIONS 04.28.2023							
GENERAL		0	1	2	3	4	5	6	7	8
G0.01	COVER SHEET	•	•							
SURVEY										
1 OF 2	ALTA/NSPS LAND TITLE SURVEY	•	•							
2 OF 2	ALTA/NSPS LAND TITLE SURVEY WITH TOPOGRAPHY	•	•							
CIVIL										
C1.02	COMPOSITE SITE PLAN	•	•							
C1.20	DIMENSION CONTROL SITE PLAN	•	•							
C1.30	GRADING PLAN	•	•							
C5.02	TRASH ENCLOSURE DETAILS		•							
C6.00	TREE INVENTORY AND REMOVAL PLAN		•							
LANDSCAF	PE ARCHITECTURE - EVERGREEN DESIGN CONSULTANTS									
LP.1	LANDSCAPE PLAN		•							
LP.2	LANDSCAPE DETAILS		•							
LP.3	LANDSCAPE SPECIFICATIONS		•							
LP.4	TREE PROTECTION DETAILS & SPECIFICATIONS		•							
PHOTOME	ETRIC SITE PLAN - COOPER LIGHTING SOLUTIONS									
1 OF 1	KROGER D463 - PHOTOMETRIC PLAN		•							
ARCHITEC	TURE - GALLOWAY									
A0.0	FUEL CENTER ELEVATIONS		•							
A1.01	FLOOR PLAN	•	•							

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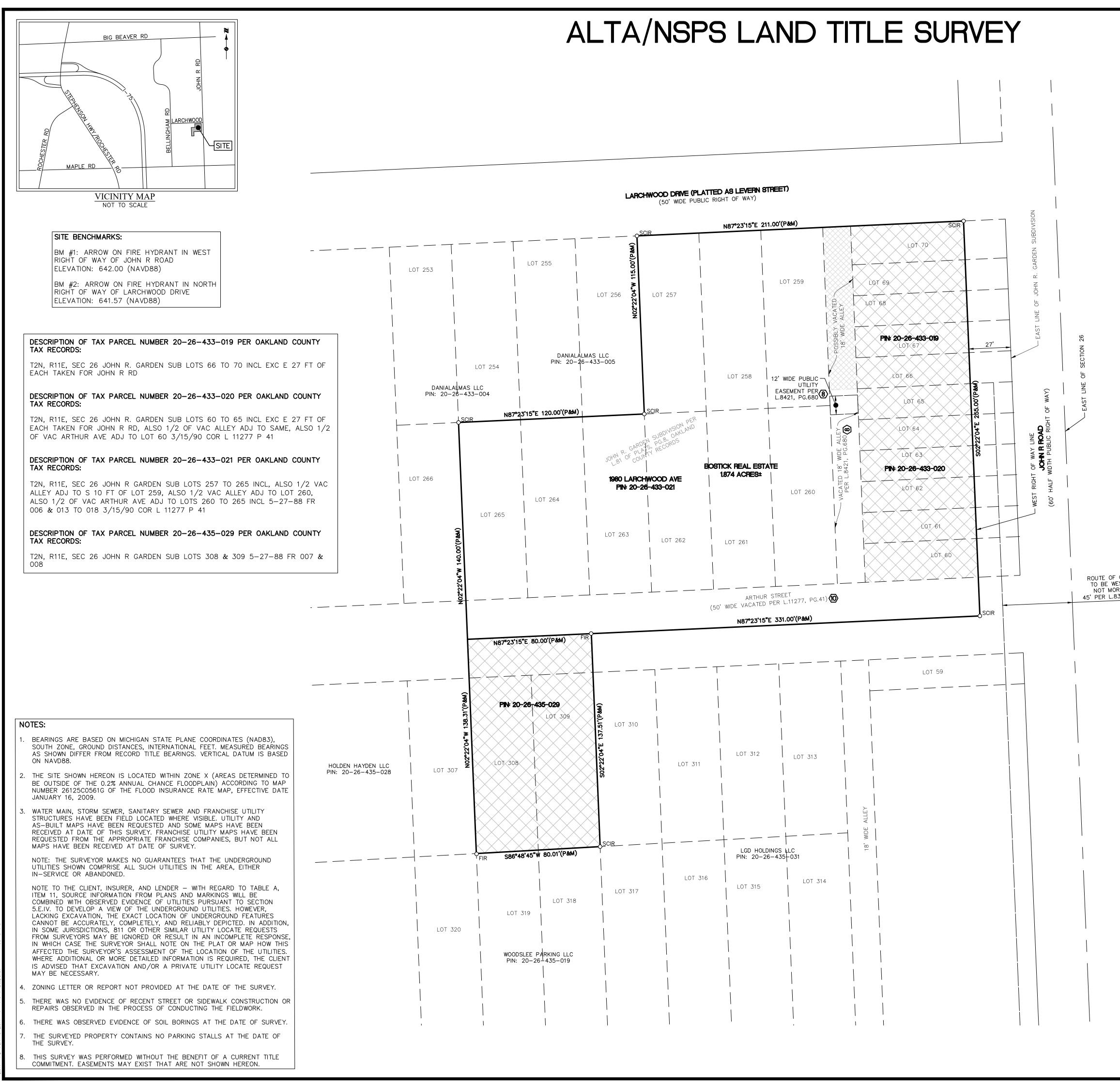
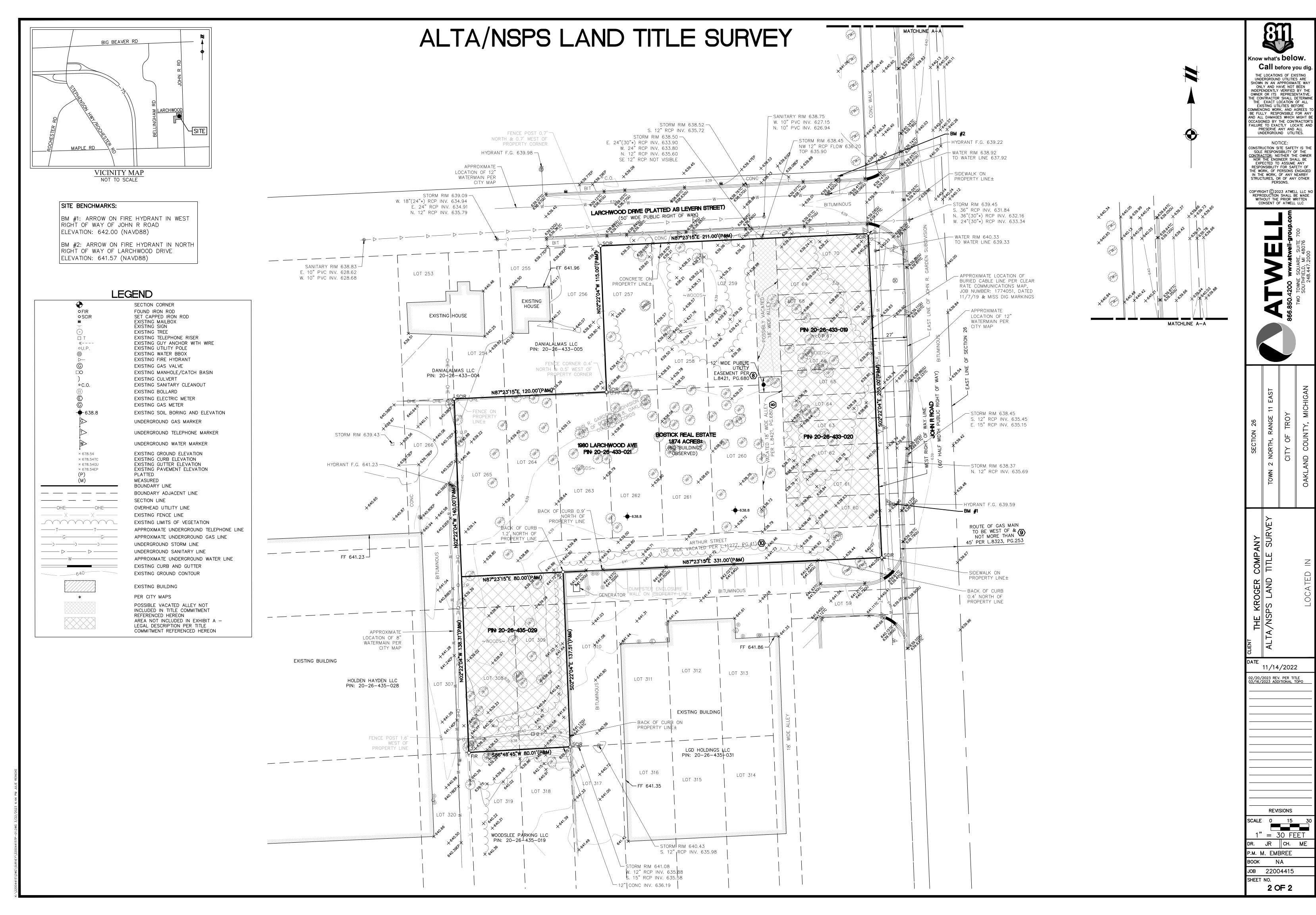
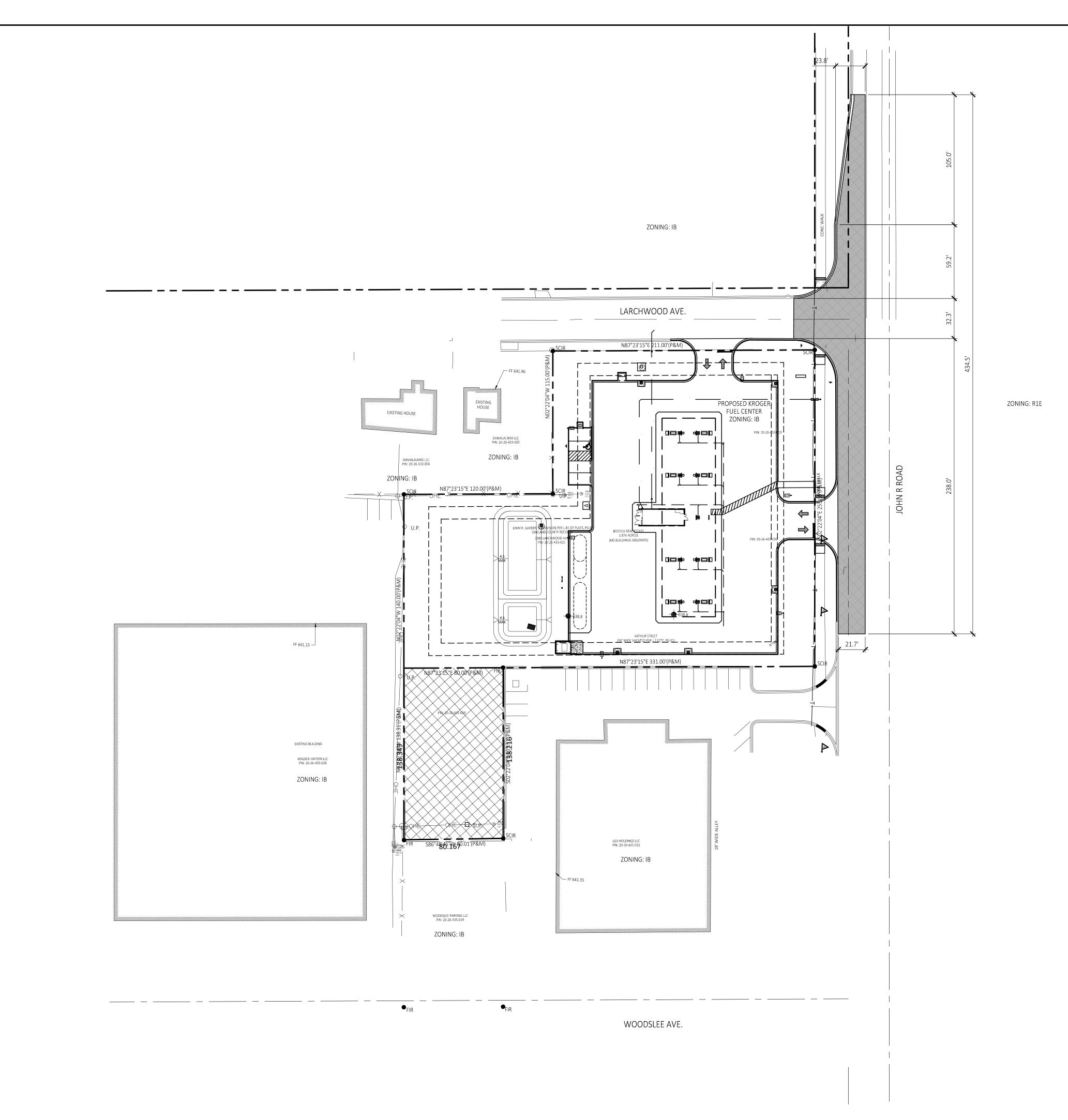


	EXHIBIT A - LEGAL DESCRIPTION PER INFORMATIONAL TITLE REPORT ISSUED BY AMROCK, LLC, ORDER NO: CO00126451, EFFECTIVE DATE: JANUARY 10, 2023: THE FOLLOWING DESCRIBED PREMISES SITUATED IN THE CITY OF TROY, COUNTY OF OAKLAND AND STATE OF MICHIGAN: LOTS 257, 258, 259, 260, 261, 262, 263, 264, 265 OF JOHN R. GARDEN SUBDIVISION, AS RECORDED IN LIBER 31, PAGE 8 OF PLATS, OAKLAND COUNTY RECORDS. TOGETHER WITH THE ONE HALF VACATED ALLEY ADJACENT TO LOTS 259 AND 260 AND ONE HALF OF VACATED ARTHUR AVE ADJACENT TO LOTS 260 TO 265. SCHEDULE B - PART II (EXCEPTIONS) PER INFORMATIONAL TITLE REPORT ISSUED BY AMROCK, LLC, ORDER NO: CO00126451, EFFECTIVE DATE: JANUARY 10, 2023: 2 INTEREST OF JOHN D. LOTER AS EVIDENCED IN MARDANTY DEED DECORDED	CONSTR SOLE CONTRA NOR CONSTR SOLE CONTRA NOR EXP RESPO THE WC IN TH STRUC	Call b LOCATIO ERGROUN I IN AN A Y AND H ENDENTLY Y AND H ENDENTLY Y AND H ENDENTLY Y AND H ENDENTLY STING UT CING WOF LTACTO ING WOF ITAL ENG ECTED TO NO UCTION S CTOP; NE THE ENG ECTED TO NOSIBILITY RK, OF F E WORK, TURES, O PER GHT © 20 ODUCTION OUT THE	OCATION (ILITIES BEF ILITIES BEF PONSIBLE F ES WHICH THE CONT THE CONT THE CONT THE CONT TICE: ITE SAFET SIBILITY OF INEER SHA OF ANY SONS. 23 ATWELL SHALL BI SHALL BI SHALL BI SHALL BI SHALL BI	OU dig. ISTING S ARE ATE WAY BEEN BY THE NTATIVE. DETERMINE OF ALL FORE S TO FOR ANY MIGHT BE RACTOR'S CATE AND ALL TIES. Y IS THE E OWNER ANY ETY OF ENGAGED IEARBY ' OTHER L LLC NO E MADE RITTEN
	 7. INTEREST OF JOHN P. LOSIER AS EVIDENCED IN WARRANTY DEED RECORDED NOVEMBER 5, 1979 IN LIBER 7663, PAGE 621. (AS TO LOTS 257, 258, 259) NOTE: JOHN P. LOSIER HAD A LAND CONTRACT INTEREST IN INSTRUMENT RECORDED JUNE 28, 1968 IN LIBER 5208, PAGE 182. JOHN AND GENE LOSIER DIVORCED AND HE ASSIGNED HIS LAND CONTRACT INTEREST AND QUIT CLAIMED HIS INTEREST IN LIBER 5920, PAGE 846 AND LIBER 5920, PAGE 847. JOHN P. LOSIER INTEREST WAS RECREATED IN THE SATISFACTION OF THE LAND CONTRACT IN LIBER 7663, PAGE 621. JOHN P. LOSIER NEVER DEEDS OUT AFTER LIBER 7663, PAGE 621 RESPONSE: COVERS A PORTION OF SUBJECT PROPERTY. 8. RESOLUTION RECORDED JULY 19, 1983 IN LIBER 8421, PAGE 680. 			866.850.420	TW0 T0 S01
OUTE OF GAS MAIN TO BE WEST OF & 9 NOT MORE THAN PER L.8323, PG.253	 RESPONSE: AS SHOWN HEREON. 9. RIGHT OF WAY GRANTED TO CONSUMERS POWER COMPANY, RECORDED FEBRUARY 16, 1983 IN LIBER 8323, PAGE 253. (AS TO LOTS 60 THROUGH 65) RESPONSE: AS SHOWN HEREON. 10. RESOLUTION RECORDED FEBRUARY 28, 1990 IN LIBER 11277, PAGE 41. RESPONSE: VACATED STREET AS SHOWN HEREON. EASEMENT LOCATED SOUTH OF SUBJECT PROPERTY. 12. EASEMENTS, RESTRICTIONS AND SET BACK LINES, AS SHOWN ON THE PLAT RECORDED IN LIBER 31, PAGE 8 OF PLATS. RESPONSE: COVERS SUBJECT PROPERTY AND ADDITIONAL LAND. 	SECTION 26	TOWN 2 NORTH, RANGE 11 EAST	CITY OF TROY	OAKLAND COUNTY, MICHIGAN
		CLIENT THE KROGER COMPANY	ALTA/NSPS LAND TITLE SURVEY		LOCATED IN
				/2022 /. per tit ditional t	
	SURVEYOR'S CERTIFICATE TO: THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 5, 6(b), 7(a), 7(b)(1), 8, 9, 11(a), 11(b), 13, 17, 21 AND 22 (LOCATIONS/ELEVATION OF SOIL BORINGS) OF TABLE A THEREOF. FIELD WORK WAS COMPLETED ON NOVEMBER 16, 2022.			SIONS	
	MICHAEL D. EMBREE DATE PROFESSIONAL SURVEYOR NO. 4001056860 MEMBREE@ATWELL-GROUP.COM TWO TOWNE SQUARE, SUITE 700 SOUTHFIELD, MICHIGAN 48076 248.447.2000	DR.	0 = JR JR M. EMI 2200 NO.	15 30 FE Сн.	30 ET ME





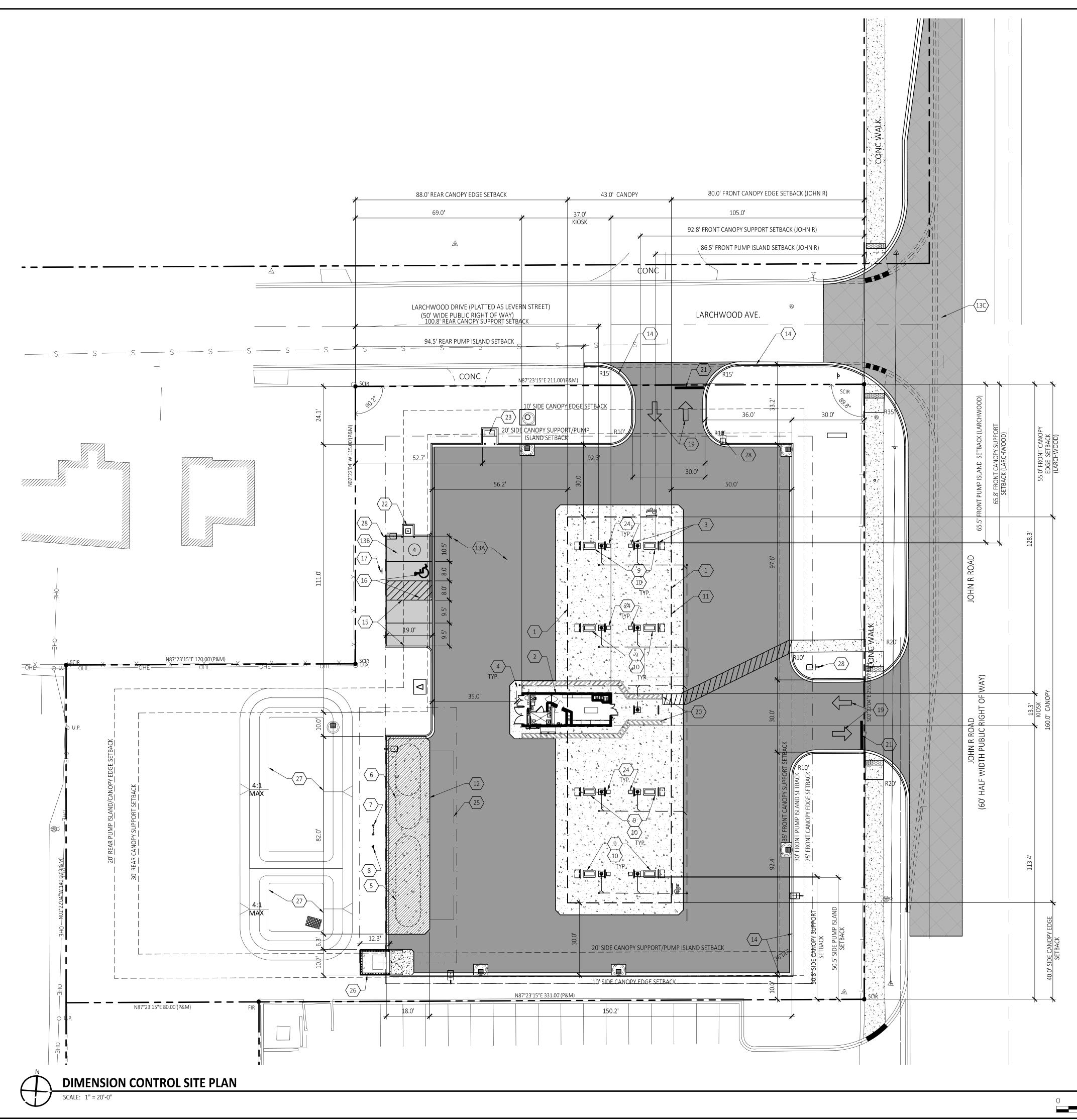
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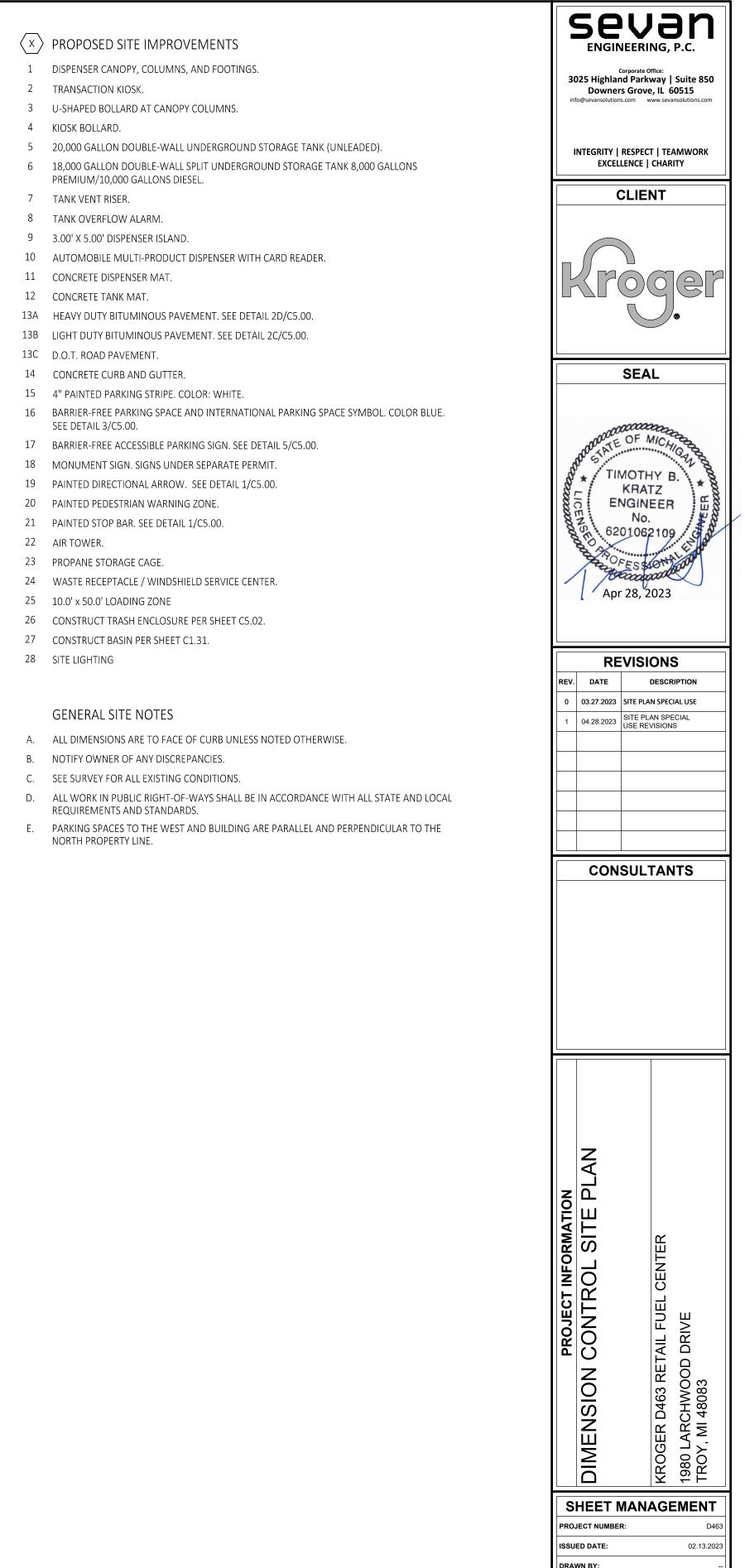
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0 40' 80'

30	5 Construction ENGIN 25 Highlan Downer	DEERIN Corporate Of Ind Parkv S Grove	NG, ^{fice:} vay , IL 6	P.C. Suite 0515	850			
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Cannodo	ENSED RO	SEA OF N MOTH KRAT No. 01062 Essa	ICH ICH Z EER	A CAN	E STREER * 000			
REV.	RE DATE	VISIC		S IPTION				
0	03.27.2023 04.28.2023	SITE PLAN SITE PLA USE REV	N SPE	CIAL				
	CON							
PROJECT INFORMATION	COMPOSITE SITE PLAN		KROGER D463 RETAIL FUEL CENTER	1980 LARCHWOOD DRIVE	TROY, MI 48083			
PROJ	HEET N		AGE		D463			
DRAV CHEC PROJ THIS REPROJ	DUCTION OR ALT RESSED WRITTE	N ENGINEER ERATION OF N PERMISSIO C. IS PROHIB IED: ALL RIG	ING, P.C THIS DO ON OF SI BITED. GHTS RE	HE PROPI	WITHOUT GINEERING,			
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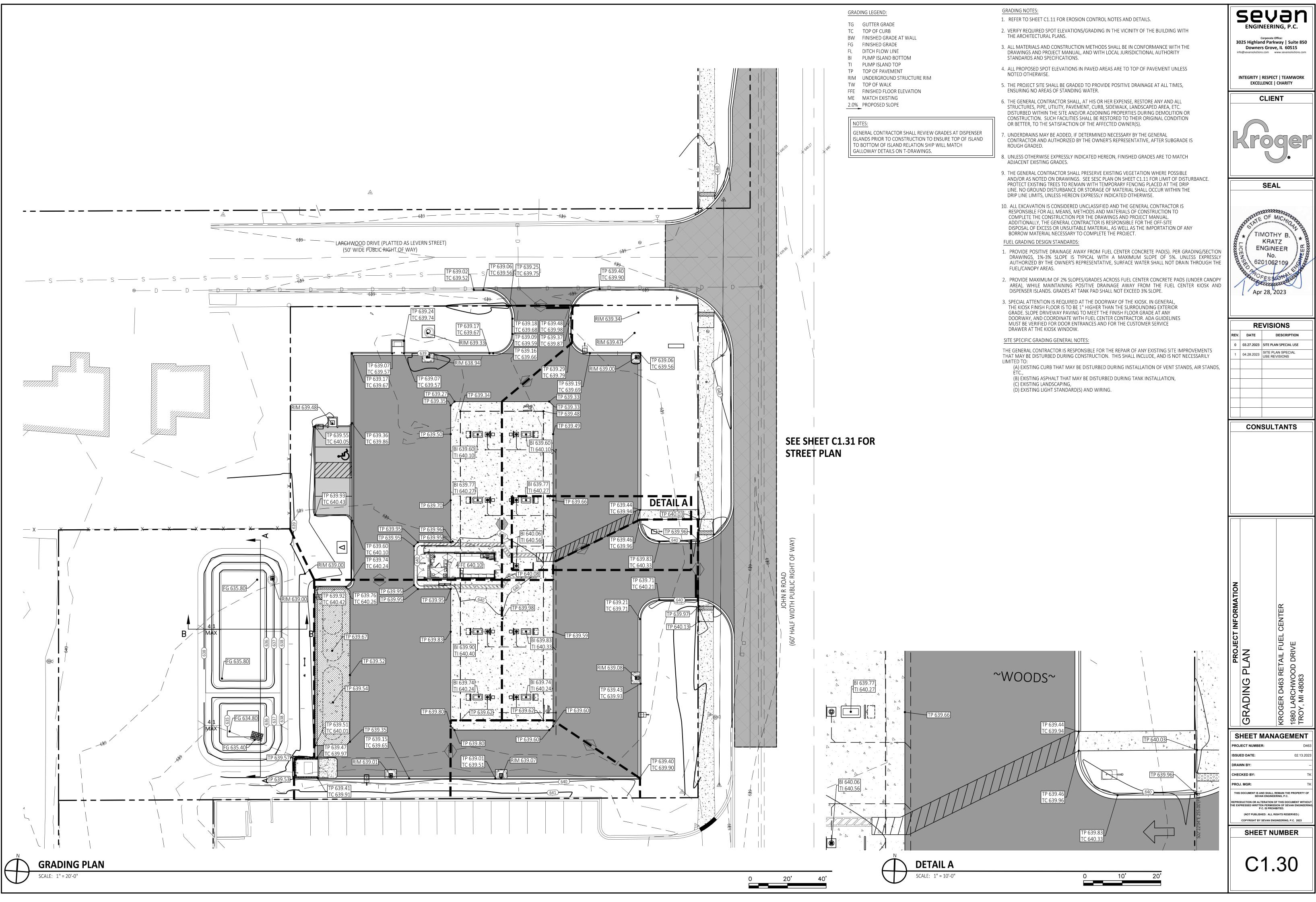
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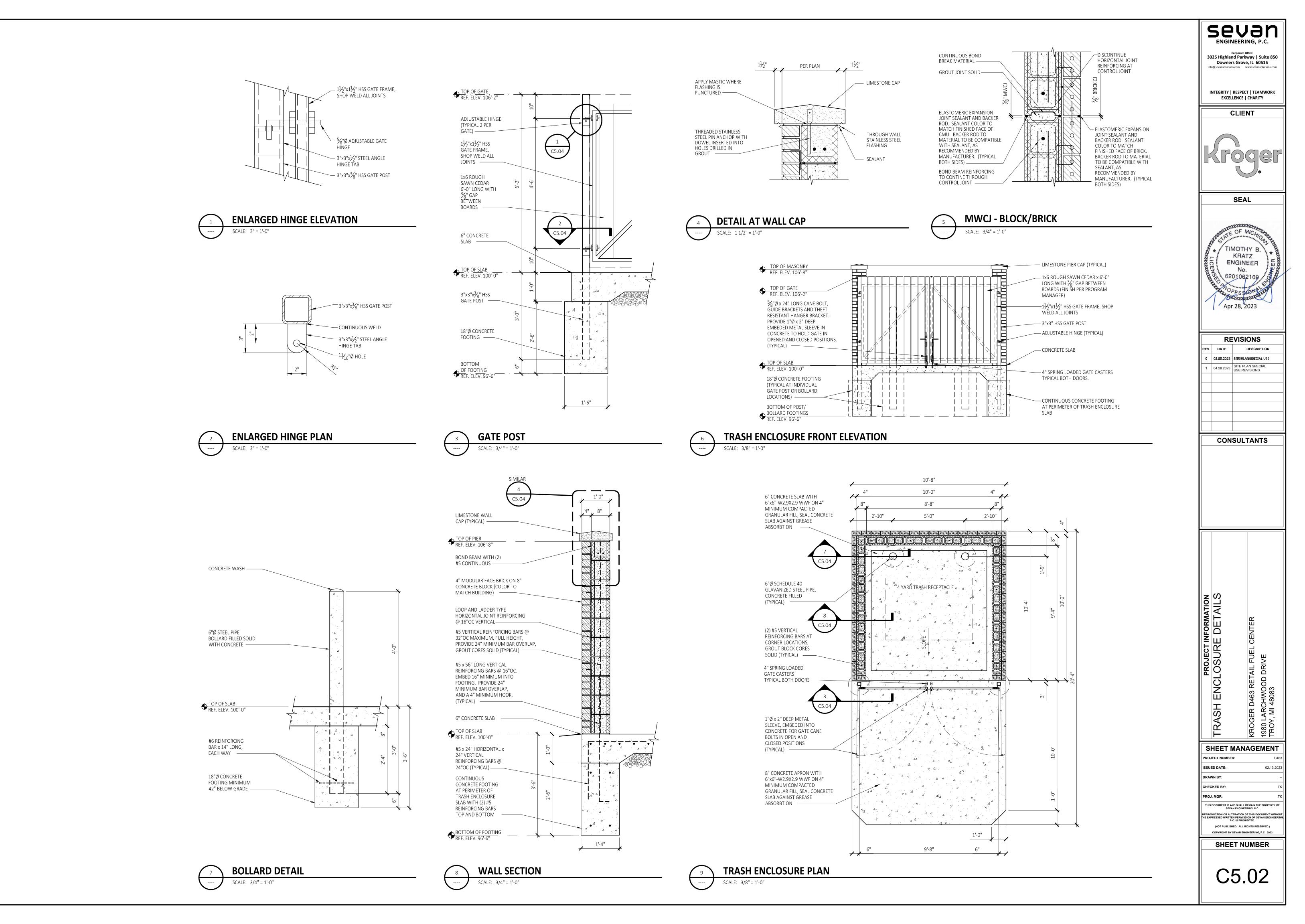
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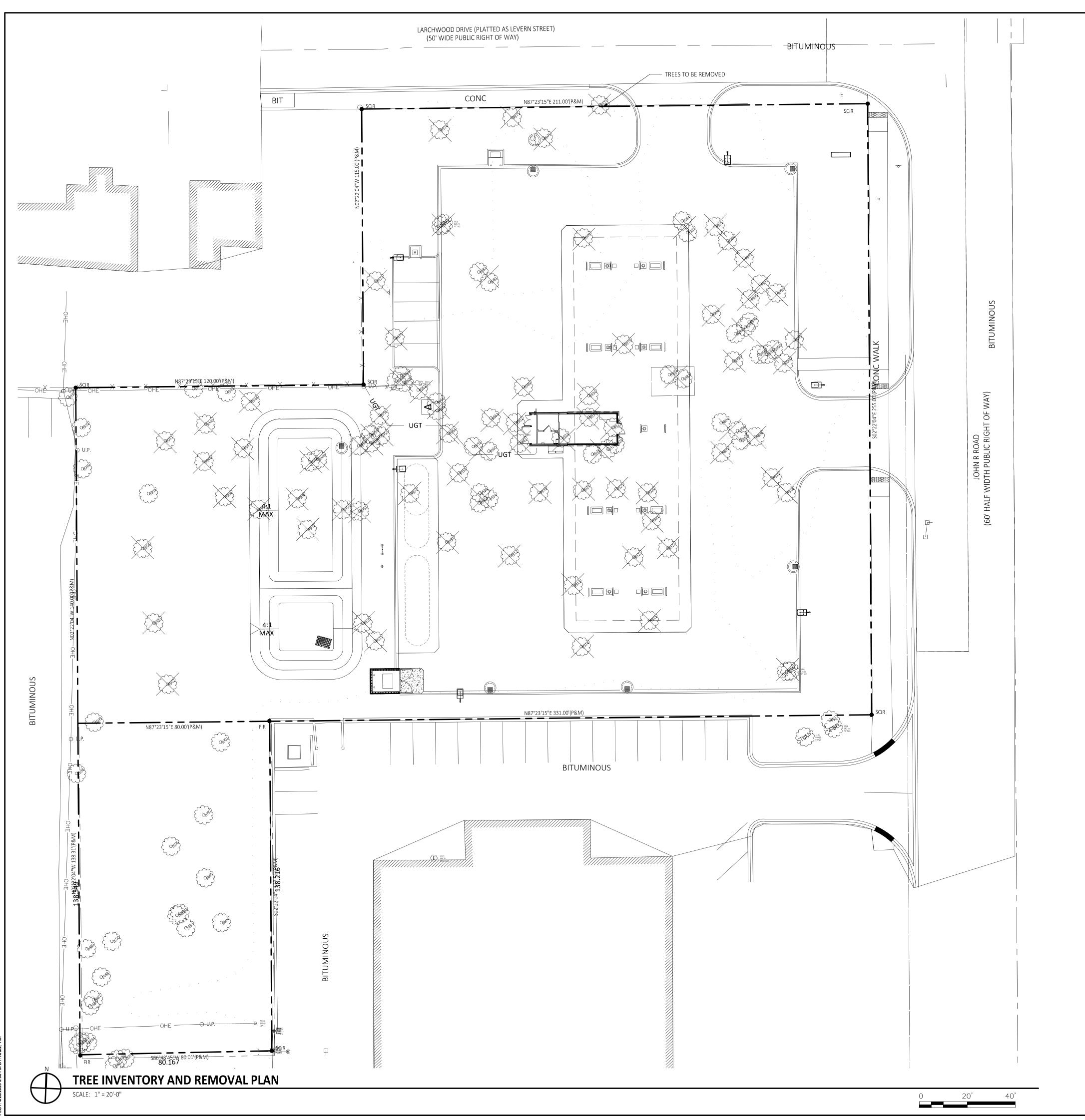






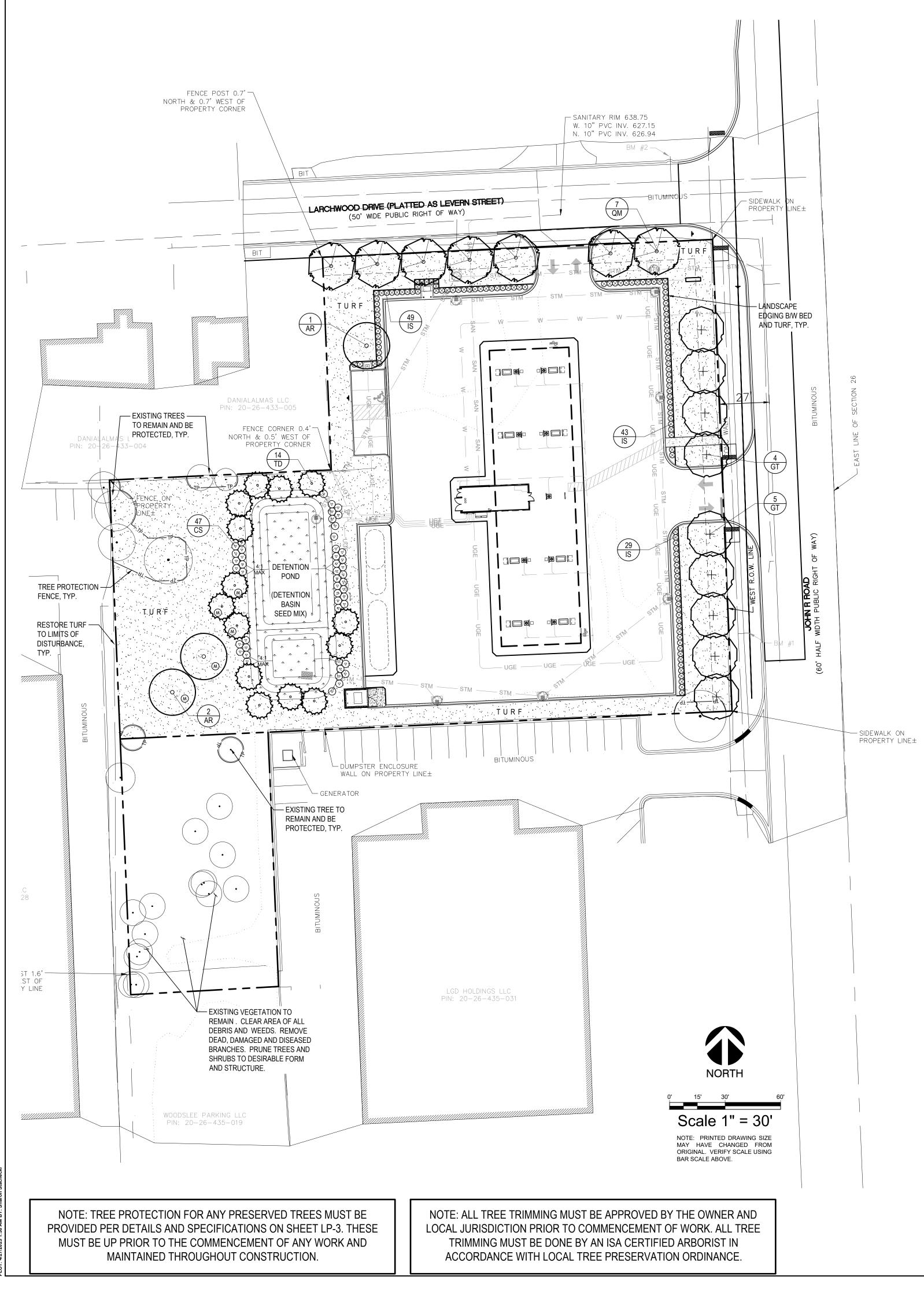


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Tree		2	2004415 - Kroger	D463C	Troy - Tree	<u>e Table</u>			sevan
Tag 🔽 2679	Data Code 🕡 ACNE	Scientific Name	Common Name - Boxelder	12	Fair	Comments Three Trunk (3T): 6.5, 4	vasive Spe ▼ Yes	<u>Heritage Tre</u> ▼ No	
2695 9940	ACNE ACNE	Acer negundo Acer negundo	Boxelder Boxelder	6 10	Fair Fair	Leaning	Yes Yes	No No	Corporate Office: 3025 Highland Parkway Suite 850
9941 9942	ACNE ACNE	Acer negundo Acer negundo	Boxelder Boxelder	12 7	Fair Fair	Leaning 4T: 5, 4, 4; Fence	Yes Yes	No No	Downers Grove, IL 60515 info@sevansolutions.com www.sevansolutions.com
9943 9944 9945	ACNE ACNE	Acer negundo Acer negundo Acer negundo	Boxelder Boxelder	6 6 11.5	Fair Fair Fair		Yes Yes	No No	
9945 9947 9948	ACNE ACNE ACNE	Acer negundo Acer negundo Acer negundo	Boxelder Boxelder Boxelder	11.5 7.5 6	Fair Dead Poor		Yes Yes Yes	No No No	INTEGRITY RESPECT TEAMWORK EXCELLENCE CHARITY
9948 9972 9973	ACNE ACNE ACNE	Acer negundo Acer negundo Acer negundo	Boxelder Boxelder Boxelder	6 19.5 27	Fair Good		Yes Yes Yes	No No No	CLIENT
9974 9925	ACNE ACNE ACSA	Acer negundo Acer saccharum	Boxelder Sugar Maple	19 6.5	Fair Good	Vines	Yes	No	1
9894 9897	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	11 11.5	Good Good		Yes Yes	No	
9898 9899	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	8.5 12	Good Good	2T: 8	Yes Yes	No No	Kroder
9900 9906	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	6 9	Good Good		Yes Yes	No No	
9907 9910	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	13 15.5	Fair Poor	3T: 5, 3; Nearly Dead	Yes Yes	No No	
9915 9916	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	16 11	Good Good	3T: 11, 10.5	Yes Yes	No No	SEAL
9918 9919	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	11 8.5	Good Good	Four Trunk (4T): 10.5, 9, 7 Six Trunk (6T): 8, 7, 6, 5.5, 5	Yes Yes	No No	-
9921 9924 9926	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple Silver Maple	10.5 6 17	Fair Good Good		Yes Yes Yes	No No No	NOCOCOCTA AND AND AND AND AND AND AND AND AND AN
9926 9928 9930	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple Silver Maple	17 9 11	Good Good Fair		Yes Yes Yes	No	MODIFIATE OF MICHIGA
9932 9933	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	9 21.5	Poor Good	2T: 6.5; Nearly Dead	Yes	No	Apr 28, 2023
9934 9936	ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	8 13.5	Good Good	2T: 7.5	Yes	No No	ENGINEER HAND
9949 9950	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	7.5 13	Good Fair		Yes Yes	No No	8 10 6201062109 0 00
9951 9953	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	8.5 9.5	Fair Fair		Yes Yes	No No	Constant Constant
9954 9955	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	9.5 15.5	Fair Fair		Yes Yes	No	Apr 28, 2023
9956 9957	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	15 10.5	Fair Good	2T: 13.5	Yes Yes	No No	
9959 9960	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	9.5 8.5	Good Good		Yes Yes	No No	REVISIONS
9961 9962	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	6.5 18	Fair Fair	Leaning 2T: 14.5	Yes Yes	No No	REV. DATE DESCRIPTION
9963 9964 9966	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	11 9 12	Fair Fair Fair		Yes Yes	No No	0 03.27.2023 SITE FLAMSSPERALAUSESE 1 04.28.2023 SITE PLAN SPECIAL USE REVISIONS
9966 9967 9968	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple Silver Maple	12 10 8	Fair Fair Fair		Yes Yes Yes	No No No	
9968 9969 9970	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple Silver Maple	8 9.5 6.5	Fair Fair Fair		Yes Yes Yes	No No No	1
9971 9975	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	23 7	Fair Good	2T: 19; Dead Branches	Yes	No	1
9978 9979	ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	22 18	Good Poor	Nearly Dead	Yes	No No]
9981 9983	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	44 8	Fair Fair	Vines	Yes Yes	No	CONSULTANTS
9985 9986	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	15 6.5	Good Good	Fused Trunk	Yes Yes	No No	
9988 9989	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	8.5 10	Fair Fair	Vines Leaning	Yes Yes	No No	1
9990 9991	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	12.5 10	Good Fair	Vines Vines	Yes Yes	No No	1
9992 9994	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	6.5 11.5	Good Good		Yes Yes	No No	
9995 9996	ACSAN ACSAN	Acer saccarinum Acer saccarinum	Silver Maple Silver Maple	11 11.5	Good Good	4T: 9, 7.5, 7 Vinos	Yes Yes	No No	
9997 9998 9999	ACSAN ACSAN ACSAN	Acer saccarinum Acer saccarinum Acer saccarinum	Silver Maple Silver Maple Silver Maple	10.5 17 14	Good Fair Fair	Vines 2T: 7.5; Leaning 2T: 8; Leaning	Yes Yes Yes	No No No	
10000 2683	ACSAN	Acer saccarinum Acer saccarinum Ailanthus Altissima	Silver Maple Silver Maple Tree of Heaven	6.5 7	Fair Fair	2o, Leaning	Yes	No	
9905 2694	CRSPP	Crataegus species Fraxinus pennsylvanica	Hawthorn Green Ash	13 9	Good Poor	2T: 7 Nearly Dead	No Yes	Yes No	4
2686 2688	MOAL	Morus alba Morus alba	White Mulberry White Mulberry	8.5 6	Fair Fair	Vines	No No	No	
2690 9938	MOAL MOAL	Morus alba Morus alba	White Mulberry White Mulberry	10 8.5	Good Fair		No No	No No	z
9939 9982	MOAL MOAL	Morus alba Morus alba	White Mulberry White Mulberry	11 6	Fair Fair	2T: 8.5; Leaning 2T: 5	No No	No No	LAN PLAN
9917 9976	PIPU PIPU	Picea pungens Picea pungens	Blue Spruce Blue Spruce	14 14	Good Good		No No	No No	
2678 2681	PODE PODE	Populus deltoides Populus deltoides	Cottonwood Cottonwood	16 7.5	Fair Good	Vines	Yes Yes	No No	REMOVAL
2682 2697 9929	PODE PODE PODE	Populus deltoides Populus deltoides Populus deltoides	Cottonwood Cottonwood	6 7 24.5	Fair Good Good		Yes Yes Yes	No No No	REMO CENTER
9929 9931 9901	PODE PODE QUAL	Populus deltoides Populus deltoides Quercus alba	Cottonwood Cottonwood White Oak	24.5 18 6.5	Good Good Fair		Yes Yes No	No No No	
2693 2680	RHCA SANI	Rhamnus cathartica Salix nigra	Common Buckthorr Black Willow		Fair Fair	2T: 4 Five Trunk (5T): 13, 11.5, 7, 6	Yes	No	
2684 2687	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	7 12	Fair Fair	Vines	Yes	No No	PRG INVENTORY ER D463 RETAIL ARCHWOOD DR MI 48083
2689 2691	ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	7.5 10	Poor Fair	Two Trunk (2T): 6; Nearly Dead	Yes Yes	No No	NVENTOF NVENTOF D463 RET/ RCHWOOD 148083
2692 2696	ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	10 7	Fair Fair		Yes Yes	No No	
2698 2699	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	8 6.5	Fair Fair	Vines 2T: 5.5	Yes Yes	No No	
9895 9896		Ulmus americana Ulmus americana	American Elm American Elm	9 6.5	Good Good		Yes Yes	No No	TREE KROG 1980 L TROY
9902 9903 9904	ULAM ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	7.5 9 8.5	Fair Good Poor	Nearly Dead	Yes Yes	No No	SHEET MANAGEMENT
9904 9908 9909	ULAM ULAM ULAM	Ulmus americana Ulmus americana Ulmus americana	American Elm American Elm American Elm	8.5 8 9.5	Poor Good Fair	Nearly Dead	Yes Yes Yes	No No No	PROJECT NUMBER: D46 ISSUED DATE: 02.13.202
9909 9911 9912	ULAM ULAM	Ulmus americana Ulmus americana Ulmus americana	American Elm American Elm American Elm	9.5 10.5 8.5	Fair Fair Fair		Yes Yes	No No No	DRAWN BY:
9913 9914	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	10 6.5	Good Fair		Yes	No	CHECKED BY: T
9920 9922	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	13.5 9	Fair Fair		Yes	No No	PROJ. MGR: T THIS DOCUMENT IS AND SHALL REMAIN THE PROPERTY OF SEVAN ENGINEERING, P.C.
9923 9927	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	6 6.5	Good Good		Yes	No No	REPRODUCTION OR ALTERATION OF THIS DOCUMENT WITHOU THE EXPRESSED WRITTEN PERMISSION OF SEVAN ENGINEERIN P.C. IS PROHIBITED.
9935 9937	ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	7 7	Good Good		Yes Yes	No No	(NOT PUBLISHED: ALL RIGHTS RESERVED.) COPYRIGHT BY SEVAN ENGINEERING, P.C. 2023
9952 9958	ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	6 6.5	Good Good		Yes Yes	No No	SHEET NUMBER
9965 9977	ULAM ULAM	Ulmus americana Ulmus americana	American Elm American Elm	7 8.5	Fair Good		Yes Yes	No No	-
9980 9984	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	8 6	Good Good		Yes Yes	No No	C6.00
9987 9993	ULAM	Ulmus americana Ulmus americana	American Elm American Elm	6 6.5	Good Good		Yes Yes	No No	
2685	ULRU	Ulmus rubra	Slippery Elm	6.5	Fair		No	No]



<form></form>	GENERAL GRADING & PL	ANTING NOTES				
<form></form>	1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANT		R CONFIRMS THAT HE HAS READ, AND WILL COMPLY	WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH	3025 Highland P	Parkway Suite 8
	 THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMO IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFIC a. BEFORE STARTING WORK, THE LANDSCAPE CONTRA INSTRUCTION ON TURF AREA AND PLANTING BED PF 	ATIONS, "FINISH GRADE" REFERS TO THI CTOR SHALL VERIFY THAT THE ROUGH EPARATION.	E FINAL ELEVATION OF THE SÓIL SURFACE (NOT TOP GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.	1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED		,
<form></form>	POSITIVE DRAINAGE AWAY FROM STRUCTURES AT T SURROUNDING GRADES AND ELIMINATE PONDING P c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE \	HE MINIMUM SLOPE SPECIFIED IN THE F OTENTIAL. VHETHER OR NOT THE EXPORT OF ANY	EPORT AND ON THE GRADING PLANS, AND AREAS OF SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE R	POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE		•
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<text><text><text><text><list-item></list-item></text></text></text></text>	f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES A SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPI	RISE BETWEEN THE GRADING PLANS, G	EOTECHNICAL REPORT, THESE NOTES AND PLANS, A AND OWNER.			N
<form></form>	a. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FO DISCREPANCY BETWEEN THE PLAN AND THE PLANT	R DETERMINING PLANT QUANTITIES; PLA LEGEND, THE PLANT QUANTITY AS SHO	NT QUANTITIES SHOWN ON LEGENDS AND CALLOUT WN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CAL	Ś ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A LOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.	IKra	
<form></form>	c. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE I OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AN	REPRESENTATIVE PHOTOS OF ALL PLAN ID APPROVE OR REJECT, ALL PLANTS DI	ELIVERED TO THE JOBSITE. REFER TO SPECIFICATIO	NS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.		
	 MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT 6. THE TURF BOUNDARY SHOWN ON THESE PLANS HAS BEEI CONSTRUCTION. 	THE END OF THE MAINTENANCE PERIOD				
<form></form>	THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEV EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT				55555	
	MULCHES				AN SHA	RON M.
	AREAS). CONTRACTOR SHALL SUBMIT SAMPLES OF ALL MULCHES	TO LANDSCAPE ARCHITECT AND OWNE	R FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOL	UTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON		DSCAPE
		HE CONDITIONS AND REQUIREMENTS O	F THE GENERAL GRADING AND FLANTING NOTES AI	ND SPECIFICATIONS).	400 × 100 ×	1001481
		OPERATIONAL BY THE TIME OF FINAL IN	ISPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL	BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.		andas
					04/2	7/2023
	4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS	SHALL BE PLACED ON A VALVE DEDICA	TED TO PROVIDE THE NECESSARY WATER REQUIRE	MENTS SPECIFIC TO THAT HYDROZONE.		
URISDUCTION: CITY OF TROY MI ZONING: IB (INTEGRATED INDUSTRIAL BUSINESS DISTRICT) SITE AREA: 81,837.8 SF (1.87 AC) VISION REQUIRED PROVIDED COMMENT(S) UNING: INFECTION: CITY OF TROY MI INTEGRATED INDUSTRIAL BUSINESS DISTRICT) COMMENT(S) UNING: INFECTION: CITY OF TROY MI REQUIRED PROVIDED COMMENT(S) UNING: INFECTION: CITY OF TROY MI State REMOVED IN FRANCE State REMOVED IN FRANCE COMMENT(S) UNING: INFECTION: CITY OF TROY MI REMOVED IN FRANCE ON INFECTION: COMMENCE State REMOVED IN FRANCE COMMENT(S) UNING: RETWINED INFECTION: COMMENCE State REMOVED IN FRANCE State REMOVED IN FRANCE REMOVED IN FRANCE ON INFECTION COMMENCE UNING: RETWINED INFECTION: COMMENCE INFER REMOVED IN FRANCE ALACONT TO RULE AND ALL COMMENCE ON INFORMATION COMMENCE UNING: RETWINED INFERT OF TROVE ON INFERT OF TROVERS INFER						
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WMOOD AVE (211 LF): 10' WIDE + 1 TREE PER 30 LF OF R.O.W. 211/30 = 7 TREES 7 TREES PROVIDED R ROAD (255 LF): 10' WIDE + 1 TREE PER 30 LF OF R.O.W. 255/30 = 8.5 TREES 9 TREES PROVIDED IL ANDSCAPING IL ANDSCAPE AREA 81637.8 X 0.02 = 16.327.6 SF 38.481 SF PROVIDED (47.14%) LANDSCAPE AREA INCLUDES PRESERVED WOODLAND PARCEL SOUTH OF THE DEVELOPMENT PARCEL IN LANDSCAPE AREA 81637.8 X 0.02 = 16.327.6 SF 38.481 SF PROVIDED (47.14%) LANDSCAPE AREA INCLUDES PRESERVED WOODLAND PARCEL SOUTH OF THE DEVELOPMENT PARCEL		ALONG LARCHWOOD AVE.	3' HT. HEDGE PROVIDED AS REQUIRED			
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ANTING SCHEDULE OL CODE BOTANICAL NAME COMMON NAME MIN. SIZE QTY. REMARKS SHRUBS/PERENNIALS/GROUNDCOVER AR Acer rubrum 'Armstrong' Armstrong Red Maple 2.5" cal 3 Matched specimen Structure (Single Control Science (Sharmock') Sharmock Inkberry 3 gal. min 121 Full, sheer to hedge		81637.8 X 0.20 = 16,327.6 SF	38,481 SF PROVIDED (47.14%)			
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	AR Acer rubrum 'Armstrong' Armstrong Red Map	le 2.5" cal 3 Mato	ched specimen 🛛 🚫 IS Ilex glab	ora 'Shamrock' Shamrock Inkberry 3 gal. min 121 Full, sheer to hedge		04

SYMBOL (CODE	BOTANICAL NAME	COMMON NAME	MIN. SIZE	QTY.	REMARKS	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY.	REMARKS
TREES	TREES						SHRUBS/PER	ENNIALS/GROUNDCOVE	R	-		
\frown								Cornus sericea 'Isanti'	Red Twig Dogwood	3 gal. min	47	Full, unsheared
(()	AR	Acer rubrum 'Armstrong'	Armstrong Red Maple	2.5" cal	3	Matched specimen	⊗ IS	llex glabra 'Shamrock'	Shamrock Inkberry	3 gal. min	121	Full, sheer to hedge
	′						TURF / SEED					
+	GT	Gleditsia triacanthos f.	Skyline Honey Locust	2.5" cal	9	Matched specimen		Kentucky Bluegrass blend	Kentucky Blue Grass	Sod		Min. 1 year old, uniform color & texture
	\$	inermis 'Skyline'					2 4 4 4 4 4 4 4 4 4 4 2 4 4 4 4 4 4 4 4 4	Detention Basin Mix	40% Forbs, 60% Grasses/Sedge/Rush	Seed		Apply at rate of 3 oz / 1000 SF or 6lbs / acre
A A A	ў QM	Quercus macrocarpa	Bur Oak	2.5" cal	7	Matched specimen						
*	TD	Taxodium distichum 'Shawnee Brave'	Bald Cypress	2.5" cal, 6' ht	14	Matched specimen						

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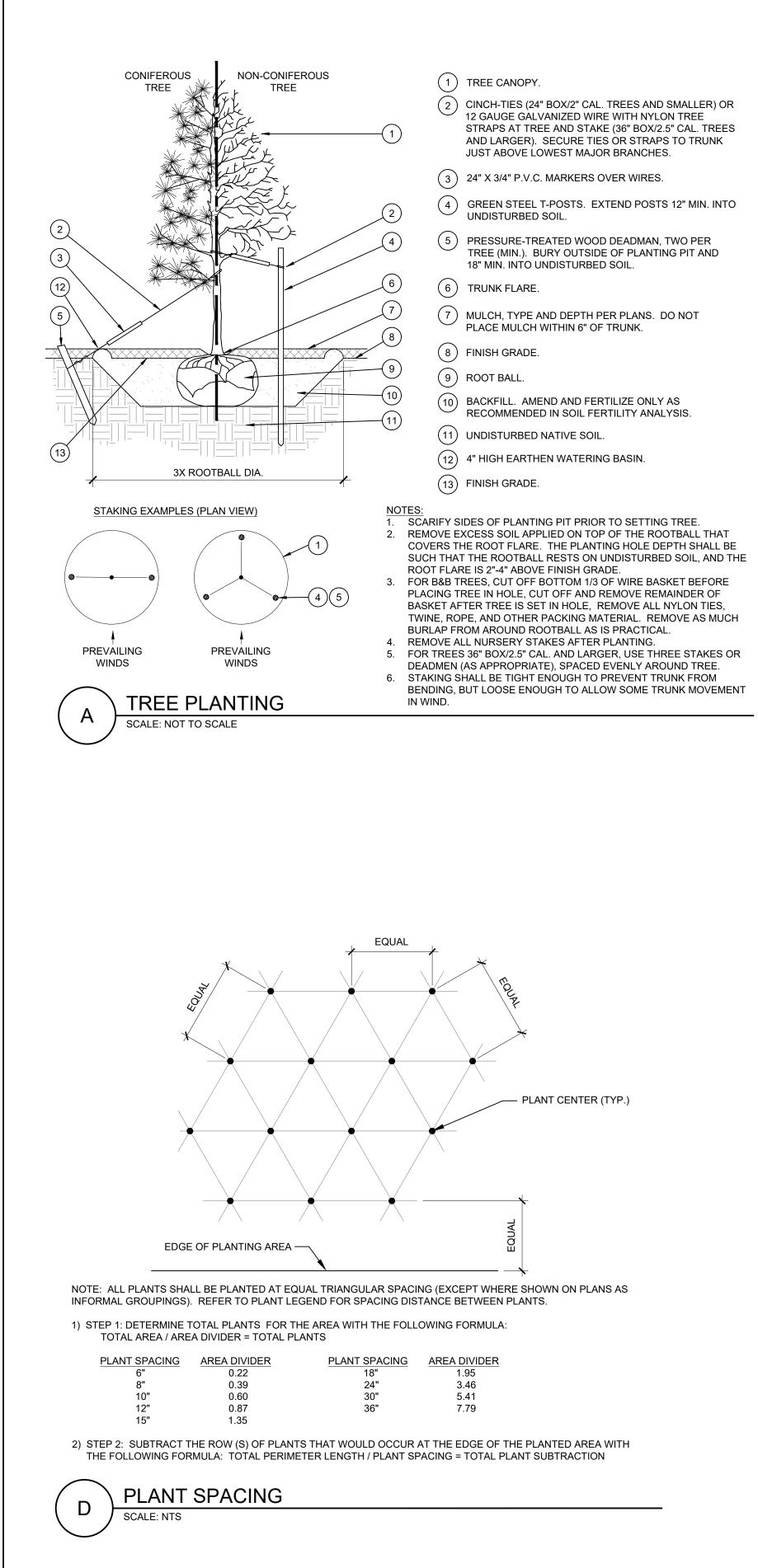
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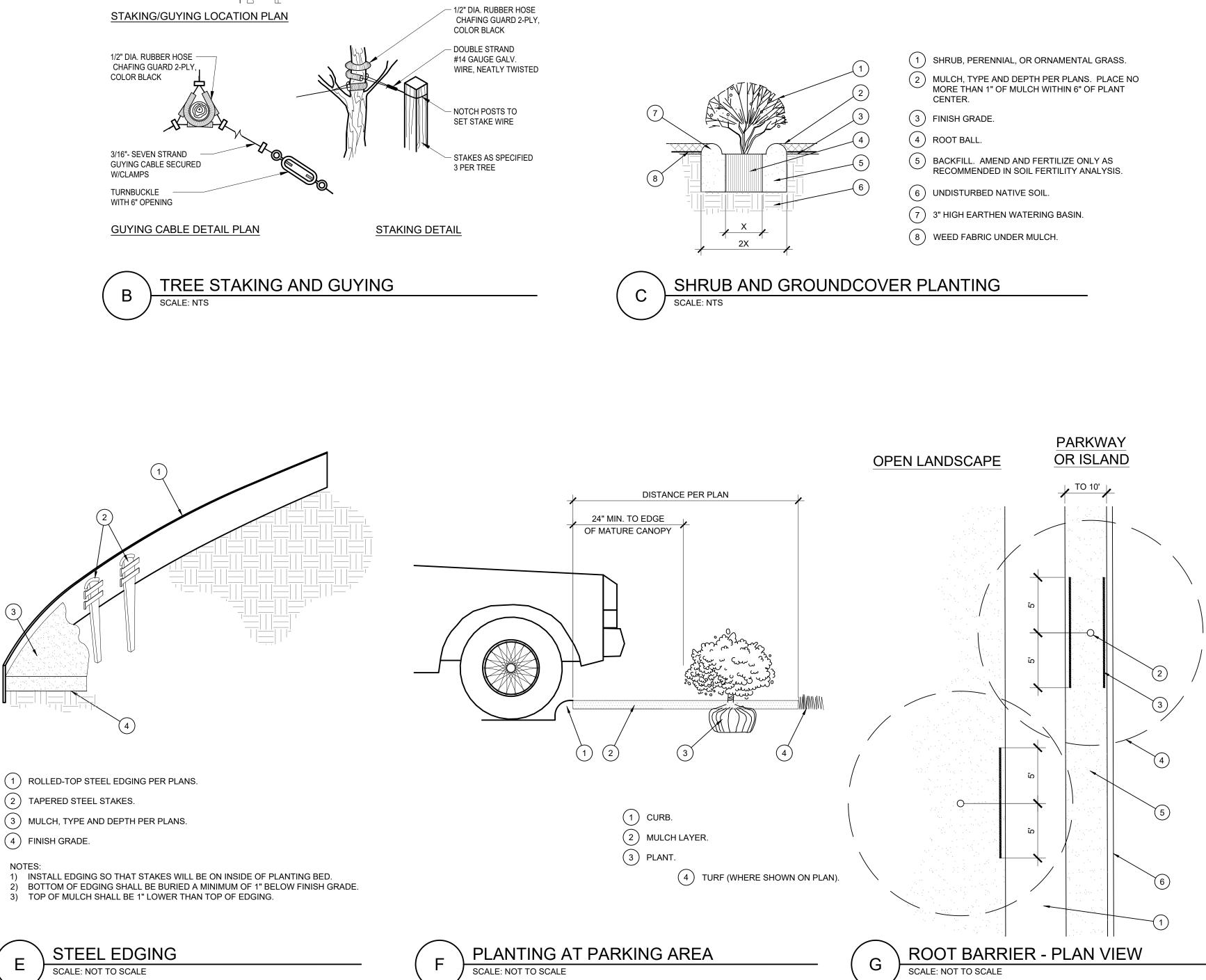
SHEET NUMBER

LP.1

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NOTES:



NOTES:

SLOPE.

ORIENT STAKING/GUYING TO PREVAILING WINDS AND

WITHIN EACH GROUPING OR AREA.

SLOPES, EXCEPT ON SLOPES GREATER THAN 3:1 ORIENT TO

USE SAME STAKING/GUYING ORIENTATION FOR ALL PLANTS

- (1) TYPICAL WALKWAY OR PAVING
- (2) TREE TRUNK
- 3 LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- (4) TREE CANOPY
- 5 TYPICAL PLANTING AREA
- (6) TYPICAL CURB AND GUTTER
- NOTES: 1) INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
- 2) BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL
- sevan ENGINEERING, P.C. Corporate Office: 3025 Highland Parkway | Suite 850 Downers Grove, IL 60515 info@sevansolutions.com www.sevansol INTEGRITY | RESPECT | TEAMWORK EXCELLENCE | CHARITY CLIENT SEAL OF MICA SHARON M. STACHECKI LANDSCAPE 1 ☆ : ARCHITECT No. 3901001481 ANDSC 04/27/2023 REVISIONS DESCRIPTION DATE CONSULTANTS EVERG REEN DESIGN GROUP (800) 680-6630 100 E. Campus View Blvd., Suite 250 Columbus, OH 43235 www.EvergreenDesignGroup.com S -ORMATION TAIL CENTER Ш О Ľ DD CT FUEL Ш CAP 8 RETAIL AT LARC 33 S 33 AD AND Ď Ч Ч Ц К JOHN TROY, \mathbf{X} SHEET MANAGEMENT PROJECT NUMBER: ISSUED DATE: 04.27.2023 DRAWN BY: CHECKED BY: SS/R PROJ. MGR: HIS DOCUMENT IS AND SHALL REMAIN THE PROPERTY OF SEVAN ENGINEERING, P.C. REPRODUCTION OR ALTERATION OF THIS DOCUMENT WIT HE EXPRESSED WRITTEN PERMISSION OF SEVAN ENGINE P.C. IS PROHIBITED. (NOT PUBLISHED: ALL RIGHTS RESERVED.) COPYRIGHT BY SEVAN ENGINEERING, P.C. 2023 SHEET NUMBER LP.2

PLANTING SPECIFICATIONS

GENERAL

A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR

- ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
- A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- B. SCOPE OF WORK
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
- THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

1

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
- FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR SIZE, AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMACTIC CONDITIONS.
- ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCIRCLING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
- TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
- ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL
- ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
- CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
- MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL. WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
- ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- D. SEED: PROVIDE CERTIFIED BLUEGRASS/FESCUE/PERENNIAL RYE SEED MIX. APPLIED AT THE RATE OF 7 LBS/1000 SF, PLS.
- SEED SHALL BE FRESH, CLEAN, DRY, NEW-CROP SEED COMPLYING WITH AOSA'S "RULES FOR TESTING SEEDS" FOR PURITY AND GERMINATION TOLERANCES.
- DELIVER SEED IN ORIGINAL, UNOPENED CONTAINERS SHOWING WEIGHT, CERTIFIED ANALYSIS, NAME, AND ADDRESS OF PRODUCER. STORE IN A DRY, ENCLOSED LOCATION.
- E. DETENTION BASIN SEED: PROVIDE MIX WITH 40% FORBS, 60% GRASSES/SEDGE/RUSH, APPLIED AT A RATE OF 3 OZ./1000 S.F. OR 6 LBS./ACRE.
- F. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN ½ INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
- G. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT: 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE: SOLUBLE SALT CONTENT OF 5 TO 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
- H. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
- MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
- J. TREE STAKING AND GUYING
- STAKES: 6' LONG GREEN METAL T-POSTS.
- GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
- STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- J. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

	THODS		SHOULD ADDITIONAL SOIL BE ON-SITE OR IMPORT ADDITIO
	SOIL PREPARATION		OWNER. IMPORTED TOPSOIL ON-SITE SOIL.
1.	BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.	6.	TREES SHALL NOT BE STAKE REQUIRE STAKES TO KEEP T OF TREE STAKES (BEYOND T
2. a.	SOIL TESTING: AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES		CONTRACTOR'S DISCRETION SHALL STRAIGHTEN THE TRE
ч.	FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING		SHALL ADHERE TO THE FOLL
	LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE	a. b.	1"-2" TREES 2-1/2"-4" TREES
	LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.	c. d.	TREES OVER 4" CALIPER MULTI-TRUNK TREES
b.	THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE		NEEDED TO STABILIZE THE
	FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.	7.	UPON COMPLETION OF PLAN COVER THE INTERIOR OF THE
C.	THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY	_	
d.	ALONG WITH THE SOIL SAMPLES. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR	E.	SODDING
	THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE	1. 2.	SOD VARIETY TO BE AS SPEC LAY SOD WITHIN 24 HOURS F
	SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY		FROZEN.
	OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.	3.	LAY THE SOD TO FORM A SOL SOD STRIPS - DO NOT OVERL
3.	THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS,	4.	ROLL THE SOD TO ENSURE G UNDERNEATH.
	EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.	5.	WATER THE SOD THOROUGH
4. a.	FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING: TREES: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF		LEAST SIX INCHES OF PENET
i.	ROTOTILLING AFTER CROSS-RIPPING: NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.		
ii.	12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.	_	
iii. iv.	"CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE IRON SULPHATE - 2 LBS. PER CU. YD.	E.	MULCH
5.	IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING	1.	INSTALL MULCH TOPDRESSIN TREE RINGS.
	PLANS.	2.	DO NOT INSTALL MULCH WITH
a.	BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS		STRUCTURES, EXCEPT AS MA CONCRETE WALKS AND CUR
	FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.		WALKS AND CURBS. MULCH (
b.	CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE		TOP OF WALL.
	AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING	F.	CLEAN UP
	SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING	1.	DURING LANDSCAPE PREPAR
C.	POTENTIAL. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY	2.	AREAS IN A NEAT, ORDERLY (LEGALLY DISPOSE ALL EXCA)
	SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE		
	FINISH GRADES TO BE ESTABLISHED.	G.	INSPECTION AND ACCEPTANCE
d.	ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE	1.	UPON COMPLETION OF THE V
	ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE		CLEAN, FREE OF DEBRIS AND CONTRACTOR SHALL THEN R
	SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.		ACCEPTABILITY.
e.	ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH	2.	WHEN THE INSPECTED PLAN THE LANDSCAPE CONTRACT
	SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON	3.	OWNER'S SATISFACTION WIT THE LANDSCAPE MAINTENAN
f.	THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS,	5.	BEEN RE-INSPECTED BY THE
	GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE		NOTICE OF FINAL ACCEPTAN
0	ARCHITECT, GENERAL CONTRACTOR, AND OWNER.		
6.	ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.	H.	LANDSCAPE MAINTENANCE
в	SUBMITTALS	1.	THE LANDSCAPE CONTRACT
			SHOWN ON THESE PLANS FO THE OWNER. LANDSCAPE MA
1.	THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK		FOLLOWING ACTIONS (AS API
2.	COMMENCES. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR		OF PLANTS THAT HAVE SETTI AREAS WHICH HAVE NOT GEI
۷.	SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND		DISEASES, REPLACEMENT OF
	PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED		DUE TO FAULTY PARTS AND/(PLANTINGS. THE LANDSCAPE
3.	AREAS AS MAY BE APPROPRIATE). SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES		WORKING ORDER, WITH SCH CONSERVATION.
	SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).	2.	SHOULD SEEDED AND/OR
4.	WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.		SYSTEM, THE LANDSCAPE CO AND OBTAINING A FULL, HEAI
C	GENERAL PLANTING	3.	TO ACHIEVE FINAL ACCEPTA FOLLOWING CONDITIONS MU
		a.	THE LANDSCAPE SHALL SH
1. 2.	REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT		SEASONAL DORMANCY). A REPLACED BY HEALTHY PI
	HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.	b. c.	ALL HARDSCAPE SHALL BE SODDED AREAS MUST BE
З. а.	TRENCHING NEAR EXISTING TREES: CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE	0.	INCHES BEFORE FIRST MC
	CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS		GROWTH. BARE AREAS LA RESEEDED (AS APPROPRI
	DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS		NEATLY MOWED.
	EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).		
b.	ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.	Ι.	WARRANTY PERIOD, PLANT GUAF
C.	ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE	1.	
	TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP		IRRIGATION SYSTEMS FOR A ACCEPTANCE (90 DAYS FOR A
d.	MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY.		EXPENSE AND TO THE SATISI REPAIR ANY PORTIONS OF TH
u.	DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.	2.	AFTER THE INITIAL MAINTENA
D.	TREE PLANTING		CONTRACTOR SHALL ONLY B CANNOT BE ATTRIBUTED DIR
1.	TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF		
١.	THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR	J.	PROVIDE A MINIMUM OF (2) COPIE

- THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
- SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE 2. TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLF
- FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER 3. ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL
- INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO 4 FOUR INCHES ABOVE THE SURROUNDING GRADE.
- BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL.
- MARKUPS.

OULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE NER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE

ES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) QUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE NTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR ALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING ALL ADHERE TO THE FOLLOWING GUIDELINES:

TWO STAKES PER TREE

THREE STAKES PER TREE REES OVER 4" CALIPER GUY AS NEEDED

MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS EEDED TO STABILIZE THE TREE

ON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. VER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).

D VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN. SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS

THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF) STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES. LL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL

TER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT AST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

TALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND

NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE CUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF ICRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE LKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE

RING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK EAS IN A NEAT, ORDERLY CONDITION. ALLY DISPOSE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

ON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE AN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE VTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL

EN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE NER'S SATISFACTION WITHIN 24 HOURS.

ELANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS IN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN FICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND ARANTEE PERIODS WILL COMMENCE.

LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK OWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE LLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTING PLANTS THAT HAVE SETTLED, MOWING AND AERATION OF LAWNS, WEEDING, RESEEDING EAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND

EASES.REPLACEMENT OF MULCH. REMOVAL OF LITTER. REPAIRS TO THE IRRIGATION SYSTEM E TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL NTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER RKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER

SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION TEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS D OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER. ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE LOWING CONDITIONS MUST OCCUR:

THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.

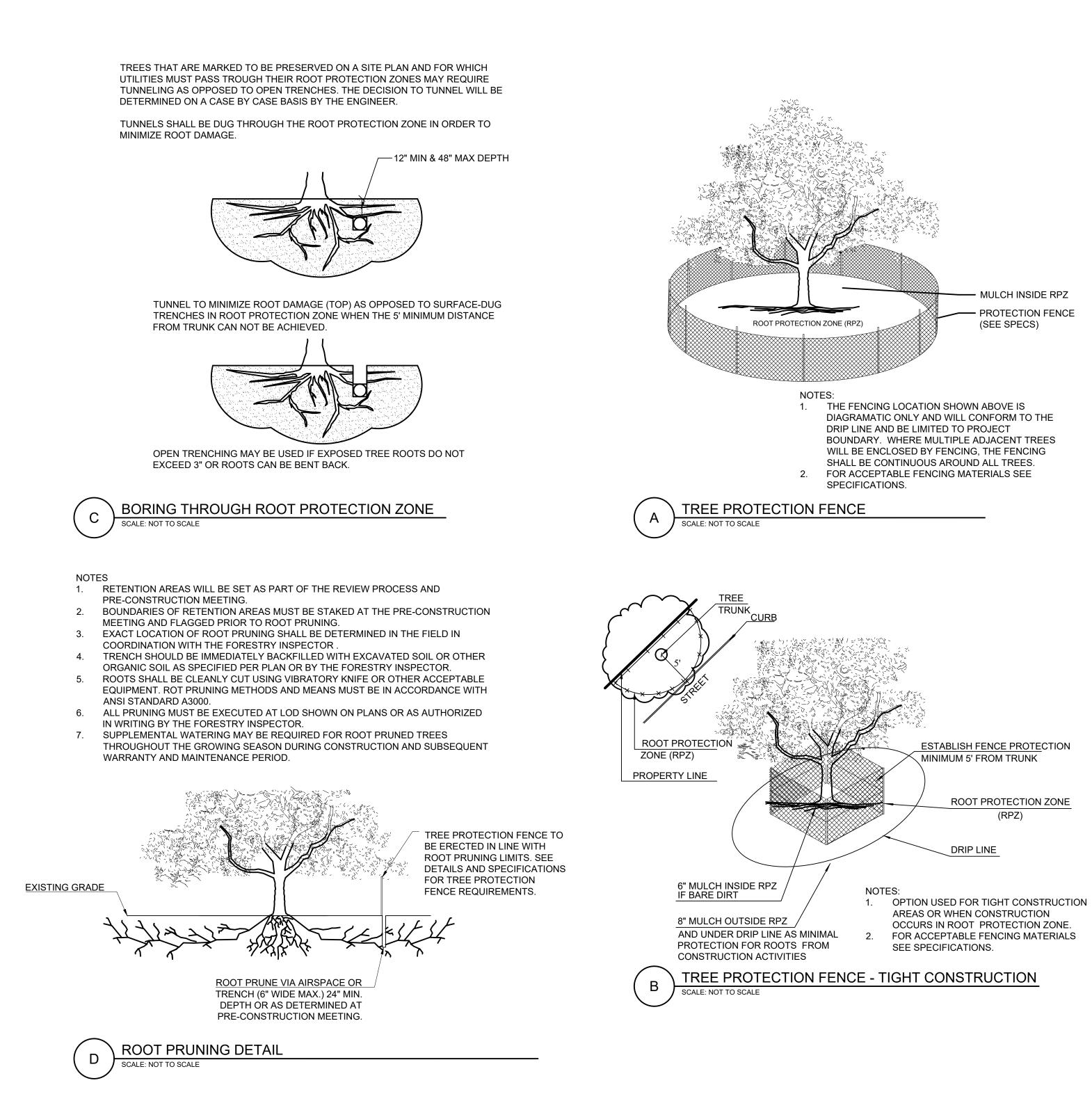
SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 NCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE

NTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS

ELANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, AND IGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL CEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN PENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR VAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY. TER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE NTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH NNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.

J. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING

sevai ENGINEERING, P.C. 3025 Highland Parkway | Suite 850 Downers Grove, IL 60515 INTEGRITY | RESPECT | TEAMWORK EXCELLENCE | CHARITY CLIENT SEAL OF MICH SHARON M. STACHECKI LANDSCAPE 1 🕁 : ARCHITECT No. 3901001481 LANDSCA 04/27/2023 REVISIONS DESCRIPTION DATE CONSULTANTS EVERGREEN DESIGN GROU (800) 680-6630 100 E. Campus View Blvd., Suite 250 Columbus, OH 43235 www.EvergreenDesignGroup.com S NO F \mathbf{O} CIF NTE Ш SP FUEL ANTING ᆔᆋ HV SHEET MANAGEMENT PROJECT NUMBER ISSUED DATE: 04.27.2023 DRAWN BY: CHECKED BY SS/R PROJ. MGR: THIS DOCUMENT IS AND SHALL REMAIN THE PROPERTY OF EPRODUCTION OR ALTERATION OF THIS DOCUMENT WIT E EXPRESSED WRITTEN PERMISSION OF SEVAN ENGINE P.C. IS PROHIBITED. (NOT PUBLISHED: ALL RIGHTS RESERVED. COPYRIGHT BY SEVAN ENGINEERING, P.C. 2023 SHEET NUMBER LP.3



TREE PROTECTION SPECIFICATIONS

MATERIALS

- 1. FABRIC: 4 FOOT HIGH ORANGE PLASTIC FENCING AS SHOWN ON THE PLANS AND SHALL BE WOVEN WITH 2 INCH MESH OPENINGS SUCH THAT IN A VERTICAL DIMENSION OF 23 INCHES ALONG THE DIAGONALS OF THE OPENINGS THERE SHALL BE AT LEAST 7 MESHES.
- 2. POSTS: POSTS SHALL BE A MINIMUM OF 72 INCHES LONG AND STEEL 'T' SHAPED WITH A MINIMUM WEIGHT OF 1.3 POUNDS PER LINEAR FOOT.
- 3. TIE WIRE: WIRE FOR ATTACHING THE FABRIC TO THE T-POSTS SHALL BE NOT LESS THAN NO. 12 GAUGE GALVANIZED WIRE.
- 4. USED MATERIALS: PREVIOUSLY-USED MATERIALS, MEETING THE ABOVE REQUIREMENTS AND WHEN APPROVED BY THE OWNER, MAY BE USED.

CONSTRUCTION METHODS

- 1. ALL TREES AND SHRUBS SHOWN TO REMAIN WITHIN THE PROXIMITY OF THE CONSTRUCTION SITE SHALL BE PROTECTED PRIOR TO BEGINNING ANY DEVELOPMENT ACTIVITY.
- 2. EMPLOY THE SERVICES OF AN ISA (INTERNATIONAL SOCIETY OF ARBORICULTURE) CERTIFIED ARBORIST AND OBTAIN ALL REQUIRED PERMITS TO PRUNE THE EXISTING TREES FOR CLEANING, RAISING AND THINNING, AS MAY BE REQUIRED.
- 3. PROTECTIVE FENCING SHALL BE ERECTED OUTSIDE THE CRITICAL ROOT ZONE (CRZ, EQUAL TO 1' FROM THE TRUNK FOR EVERY 1" OF DBH) AT LOCATIONS SHOWN IN THE PLANS OR AS DIRECTED BY THE LANDSCAPE CONSULTANT AND/OR CITY ARBORIST, AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS. FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION. TREES IN CLOSE PROXIMITY SHALL BE FENCED TOGETHER, RATHER THAN INDIVIDUALLY.
- 4. PROTECTIVE FENCE LOCATIONS IN CLOSE PROXIMITY TO STREET INTERSECTIONS OR DRIVES SHALL ADHERE TO THE APPLICABLE JURISDICTION'S SIGHT DISTANCE CRITERIA.
- 5. THE PROTECTIVE FENCING SHALL BE ERECTED BEFORE SITE WORK COMMENCES AND SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PHASE.
- 6. THE INSTALLATION POSTS SHALL BE PLACED EVERY 6 FEET ON CENTER AND EMBEDDED TO 18 INCHES DEEP. MESH FABRIC SHALL BE ATTACHED TO THE INSTALLATION POSTS BY THE USE OF SUFFICIENT WIRE TIES TO SECURELY FASTEN THE FABRIC TO THE T-POSTS TO HOLD THE FABRIC IN A STABLE AND UPRIGHT POSITION.

7. WITHIN THE CRZ:

- a. DO NOT CLEAR, FILL OR GRADE IN THE CRZ OF ANY TREE.
- b. DO NOT STORE, STOCKPILE OR DUMP ANY JOB MATERIAL, SOIL OR RUBBISH UNDER THE SPREAD OF THE TREE BRANCHES. c. DO NOT PARK OR STORE ANY EQUIPMENT OR SUPPLIES UNDER THE
- TREE CANOPY. d. DO NOT SET UP ANY CONSTRUCTION OPERATIONS UNDER THE TREE CANOPY (SUCH AS PIPE CUTTING AND THREADING, MORTAR MIXING,
- PAINTING OR LUMBER CUTTING). e. DO NOT NAIL OR ATTACH TEMPORARY SIGNS METERS, SWITCHES,
- WIRES. BRACING OR ANY OTHER ITEM TO THE TREES. f. DO NOT PERMIT RUNOFF FROM WASTE MATERIALS INCLUDING SOLVENTS, CONCRETE WASHOUTS, ASPHALT TACK COATS (MC-30 OIL) ETC. TO ENTER THE CRZ. BARRIERS ARE TO BE PROVIDED TO PREVENT SUCH RUNOFF SUBSTANCES FROM ENTERING THE CRZ WHENEVER POSSIBLE, INCLUDING IN AN AREA WHERE RAIN OR SURFACE WATER COULD CARRY SUCH MATERIALS TO THE ROOT SYSTEM OF THE TREE.

TREE PROTECTION GENERAL NOTES

- (A) PRIOR TO THE LAND CLEARING STAGE OF DEVELOPMENT. THE CONTRACTOR SHALL CLEARLY MARK ALL PROTECTED TREES FOR WHICH A TREE REMOVAL PERMIT HAS NOT BEEN ISSUED AND SHALL ERECT BARRIERS FOR THE PROTECTION OF THE TREES ACCORDING TO THE FOLLOWING:
- (1) AROUND AN AREA AT OR GREATER THAN A SIX-FOOT RADIUS OF ALL SPECIES OF MANGROVES AND PROTECTED CABBAGE PALMS; (2) AROUND AN AREA AT OR GREATER THAN THE FULL DRIPLINE OF ALL PROTECTED NATIVE PINES; (3) AROUND AN AREA AT OR GREATER THAN TWO-THIRDS OF THE DRIPLINE OF ALL OTHER PROTECTED SPECIES. (B) NO PERSON SHALL ATTACH ANY SIGN, NOTICE OR OTHER OBJECT TO ANY PROTECTED TREE OR FASTEN ANY WIRES, CABLES, NAILS OR SCREWS TO ANY PROTECTED TREE IN ANY MANNER THAT COULD PROVE HARMFUL TO THE PROTECTED TREE, EXCEPT AS NECESSARY IN
- CONJUNCTION WITH ACTIVITIES IN THE PUBLIC INTEREST. (C) DURING THE CONSTRUCTION STAGE OF DEVELOPMENT, THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE CLEANING OF EQUIPMENT OR MATERIAL WITHIN THE OUTSIDE PERIMETER OF THE CROWN (DRIPLINE) OR ON THE NEARBY GROUND OF ANY TREE OR GROUP OF TREES WHICH IS TO BE PRESERVED. WITHIN THE OUTSIDE PERIMETER OF THE CROWN (DRIPLINE) OF ANY TREE OR ON NEARBY GROUND, THE CONTRACTOR SHALL NOT CAUSE OR PERMIT STORAGE OF BUILDING MATERIAL AND/OR EQUIPMENT, OR DISPOSAL OF WASTE MATERIAL SUCH AS PAINTS, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR ANY OTHER MATERIAL HARMFUL TO THE LIFE OF THE TREE.
- (D) NO PERSON SHALL PERMIT ANY UNNECESSARY FIRE OR BURNING WITHIN 30 FEET OF THE DRIPLINE OF A PROTECTED TREE. (E) ANY LANDSCAPING ACTIVITIES WITHIN THE BARRIER AREA SHALL BE ACCOMPLISHED WITH HAND LABOR. (F) PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY OR COMPLIANCE FOR ANY DEVELOPMENT, BUILDING OR STRUCTURE, ALL TREES DESIGNATED TO BE PRESERVED THAT WERE DESTROYED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR WITH TREES
- OR USE, UNLESS APPROVAL FOR THEIR REMOVAL HAS BEEN GRANTED UNDER PERMIT. (G) THE CITY MAY CONDUCT PERIODIC INSPECTIONS OF THE SITE DURING LAND CLEARANCE AND CONSTRUCTION. (H) IF, IN THE OPINION OF THE CITY, DEVELOPMENT ACTIVITIES WILL SO SEVERELY STRESS SLASH PINES OR ANY OTHER PROTECTED TREE SUCH
- THAT THEY ARE MADE SUSCEPTIBLE TO INSECT ATTACK, PREVENTATIVE SPRAYING OF THESE TREES BY THE CONTRACTOR MAY BE REQUIRED.

- 8. ROUTE UNDERGROUND UTILITIES TO AVOID THE CRZ. IF DIGGING IS UNAVOIDABLE, BORE UNDER THE ROOTS, OR HAND DIG TO AVOID SEVERING THEM.
- 9. WHERE EXCAVATION IN THE VICINITY OF TREES MUST OCCUR, SUCH AS FOR IRRIGATION INSTALLATION, PROCEED WITH CAUTION, AND USING HAND TOOLS ONLY.
- 10. THE CONTRACTOR SHALL NOT CUT ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATION OCCURS NEAR EXISTING TREES. ALL ROOTS LARGER THAN ONE INCH IN DIAMETER ARE TO BE CUT CLEANLY. FOR OAKS ONLY, ALL WOUNDS SHALL BE PAINTED WITH WOUND SEALER WITHIN 30 MINUTES
- 11. REMOVE ALL TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS BY HAND.
- 12. TREES DAMAGED OR KILLED DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED AT THE CONTRACTOR'S EXPENSE AND TO THE PROJECT OWNER'S AND LOCAL JURISDICTION'S SATISFACTION.
- 13. ANY TREE REMOVAL SHALL BE APPROVED BY THE OWNER AND LOCAL JURISDICTION PRIOR TO ITS REMOVAL. AND THE CONTRACTOR SHALL HAVE ALL REQUIRED PERMITS FOR SUCH ACTIVITIES.
- 14. COVER EXPOSED ROOTS AT THE END OF EACH DAY WITH SOIL, MULCH OR WET BURLAP.
- 15. IN CRITICAL ROOT ZONE AREAS THAT CANNOT BE PROTECTED DUING CONSTRUCTION AND WHERE HEAVY TRAFFIC IS ANTICIPATED. COVER THE SOIL WITH EIGHT INCHES OF ORGANIC MULCH TO MINIMIZE SOIL COMPACTION. THIS EIGHT INCH DEPTH OF MULCH SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
- 16. WATER ALL TREES IMPACTED BY CONSTRUCTION ACTIVITIES, DEEPLY ONCE A WEEK DURING PERIODS OF HOT DRY WEATHER. SPRAY TREE CROWNS WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- 17. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, USE A PLASTIC VAPOR BARRIER BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE SOIL.
- 18. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL TREE PROTECTION FENCING WHEN ALL THREATS TO THE EXISTING TREES FROM CONSTRUCTION-RELATED ACTIVITIES HAVE BEEN REMOVED.

OF EQUIVALENT DIAMETER AT BREAST HEIGHT TREE CALIPER AND OF THE SAME SPECIES AS SPECIFIED BY THE CITY, BEFORE OCCUPANCY



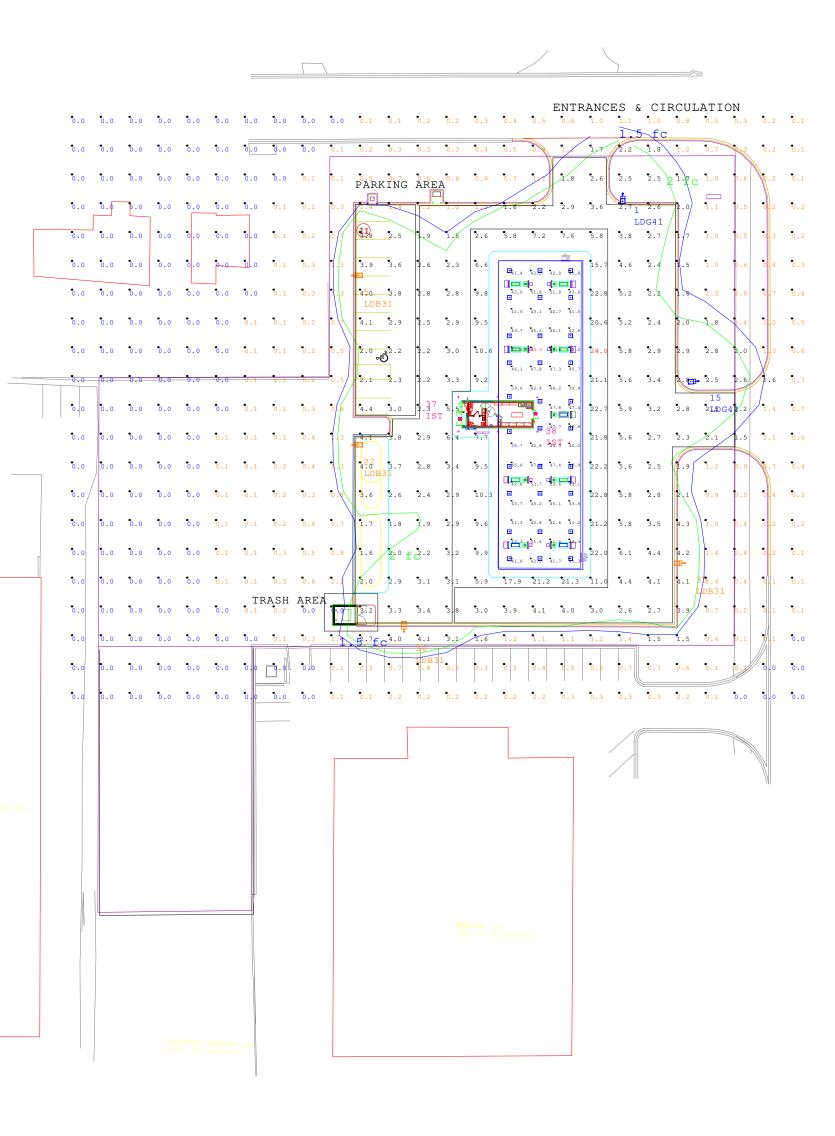
Luminaire Scheo	dule							
Symbol	Qty	Label	Arrangement	Lum. Watts	Total Watts	Lum. Lumens	LLF	Description
+0	2	IST	Single	20.09	40.18	2419	0.912	IST-AF-350-LED-E1-SL3-BZ
+	30	FC1	SINGLE	103	3090	15410	1.000	SCV-LED-15L-SC-50
€ →	4	LDB31	SINGLE	131	524	17087	0.865	PRV-C40-D-VOLT-T4-SA-BZ
∞ →	2	LDG41	SINGLE	153	306	21360	0.865	PRV-C60-D-VOLT-T5-SA-BZ

<u>Project manager to specify</u> fixture voltage for each fixture type

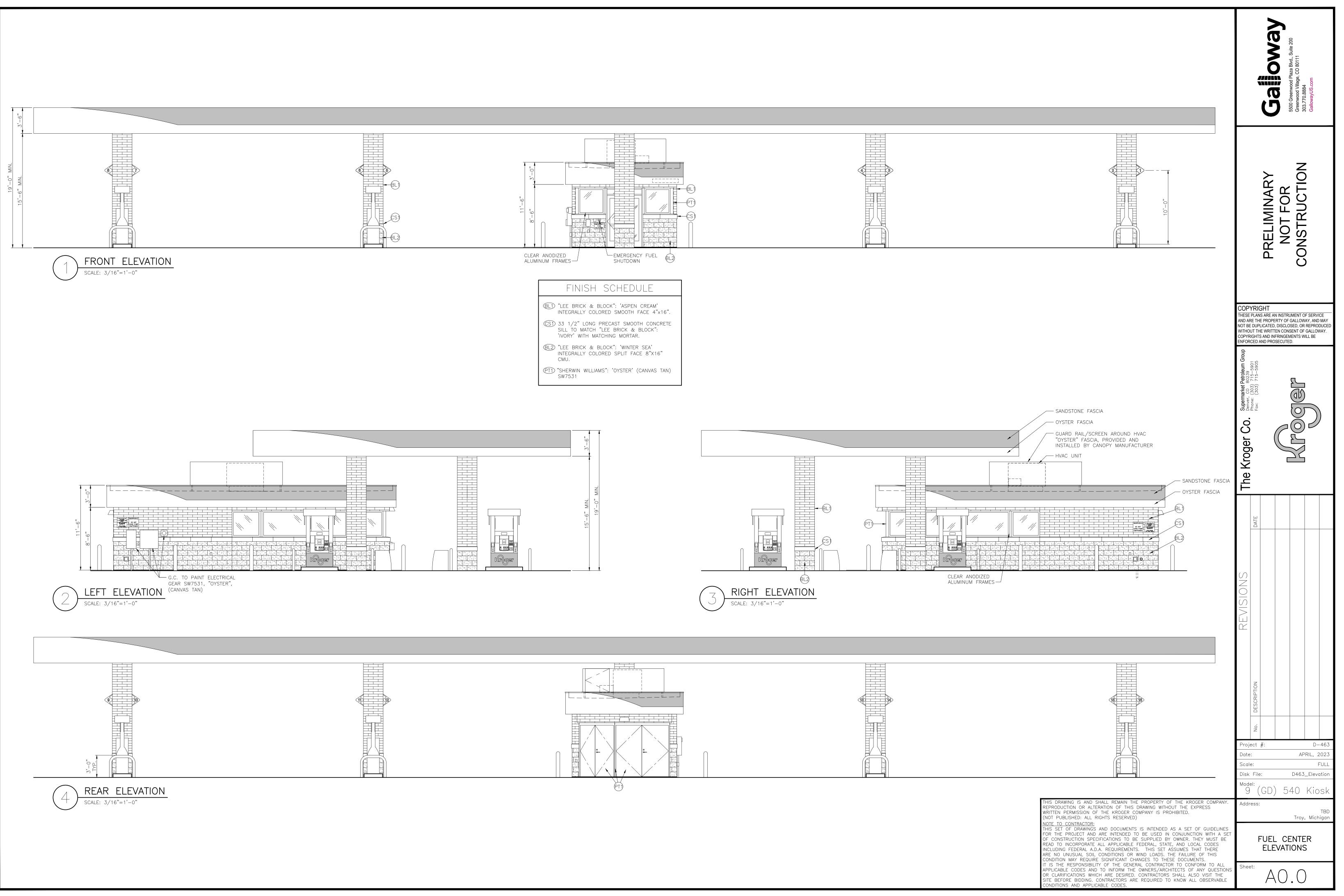
Calculation Summary							
Label	СаісТуре	Units	Avg	Max	Min	Avg/Min	Max/Min
ALL CALC POINTS	Illuminance	Fc	1.84	24.0	0.0	N.A.	N.A.
FUEL CANOPY	Illuminance	Fc	44.80	53.9	38.7	1.16	1.39
ENTRANCES & CIRCULATION	Illuminance	Fc	3.35	6.4	1.5	2.23	4.27
PARKING AREA	Illuminance	Fc	3.19	4.4	2.0	1.60	2.20
TRASH AREA	Illuminance	Fc	1.60	3.2	0.0	N.A.	N.A.

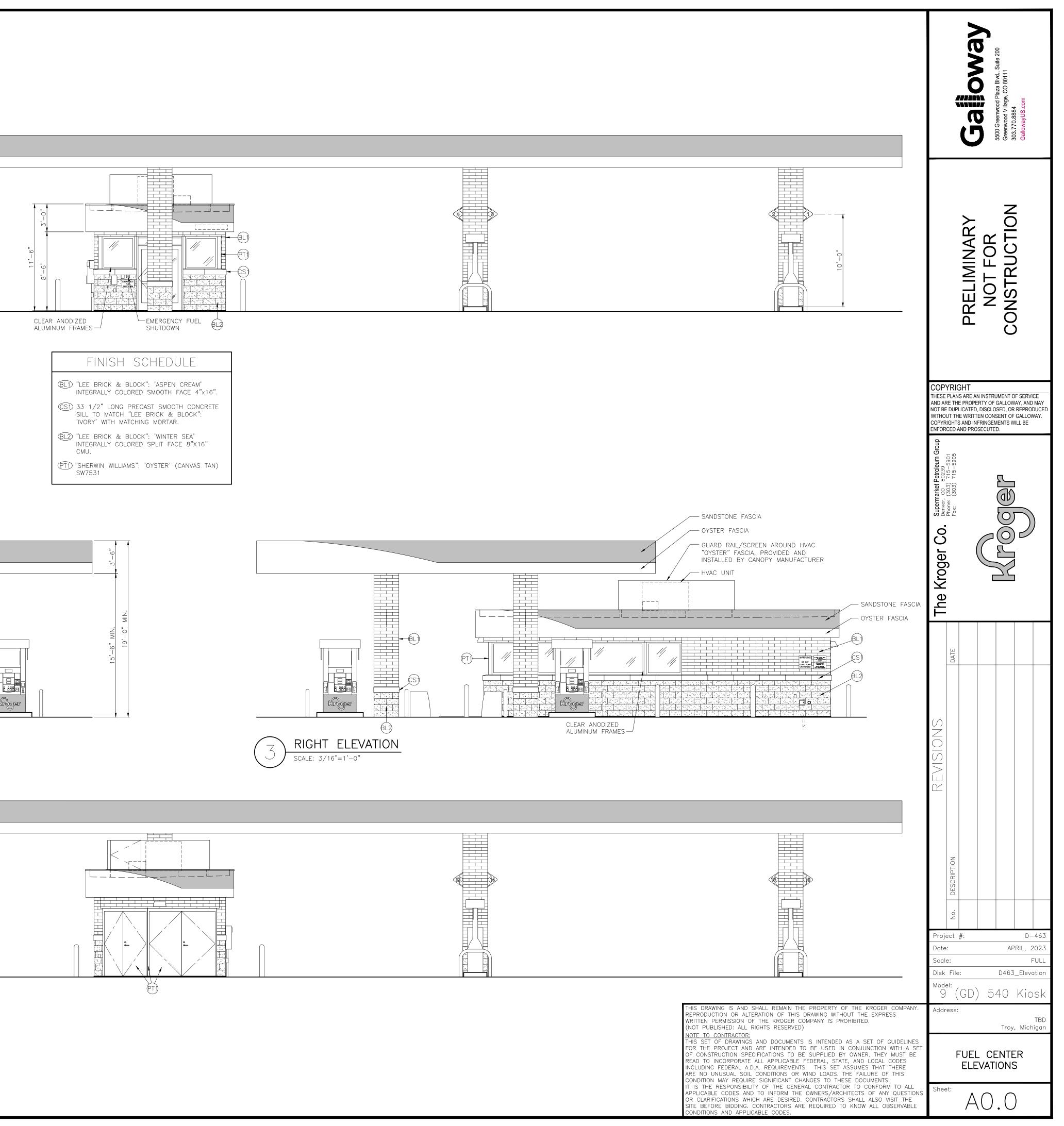
Total Watts = 3960.18

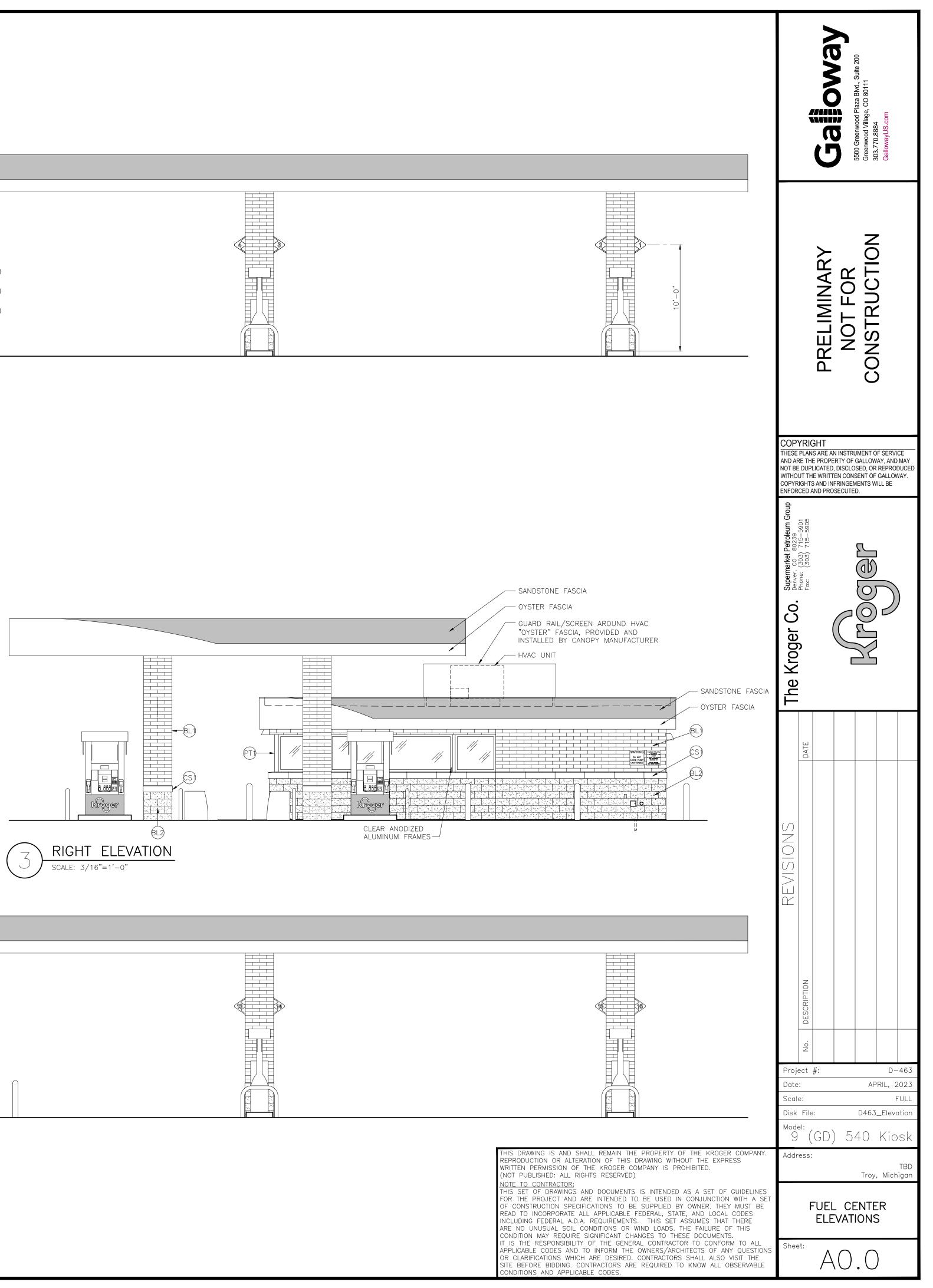
LumNo	Label	X	Y	Z	Orient	Tilt
1	LDG41	717.52	536.14	19	270	0
2	FC1	658.5	496.05	15	0	0
3	FC1	674.5	496.05	15	0	0
4	FC1	690.5	496.05	15	0	0
5	LDB31	576.66	493.5	19	0	0
6	FC1	658.5	482.05	15	0	0
7	FC1	674.5	482.05	15	0	0
8	FC1	690.5	482.05	15	0	0
9	FC1	658.5	462.08	15	0	0
10	FC1	674.5	462.08	15	0	0
11	FC1	690.5	462.08	15	0	0
12	FC1	658.5	448.08	15	0	0
13	FC1	674.5	448.08	15	0	0
14	FC1	690.5	448.08	15	0	0
15	LDG41	756.96	438.5	19	184.289	0
16	FC1	658.5	430.57	15	0	0
17	FC1	674.5	428.01	15	0	0
18	FC1	690.5	428.01	15	0	0
19	FC1	674.5	414.01	15	0	0
20	FC1	690.5	414.01	15	0	0
21	FC1	658.5	412.24	15	0	0
22	LDB31	576.72	405.31	19	0	0
23	FC1	658.5	394.1	15	0	0
24	FC1	674.5	394.1	15	0	0
25	FC1	690.5	394.1	15	0	0
26	FC1	658.5	380.1	15	0	0
27	FC1	674.5	380.1	15	0	0
28	FC1	690.5	380.1	15	0	0
29	FC1	658.5	360.08	15	0	0
30	FC1	674.5	360.08	15	0	0
31	FC1	690.5	360.08	15	0	0
32	FC1	658.5	346.08	15	0	0
33	FC1	674.5	346.08	15	0	0
34	FC1	690.5	346.08	15	0	0
35	LDB31	749.8	343.73	19	180	0
36	LDB31	603.67	308	19	90	0
37	IST	633.61	418.8	7.5	180	0



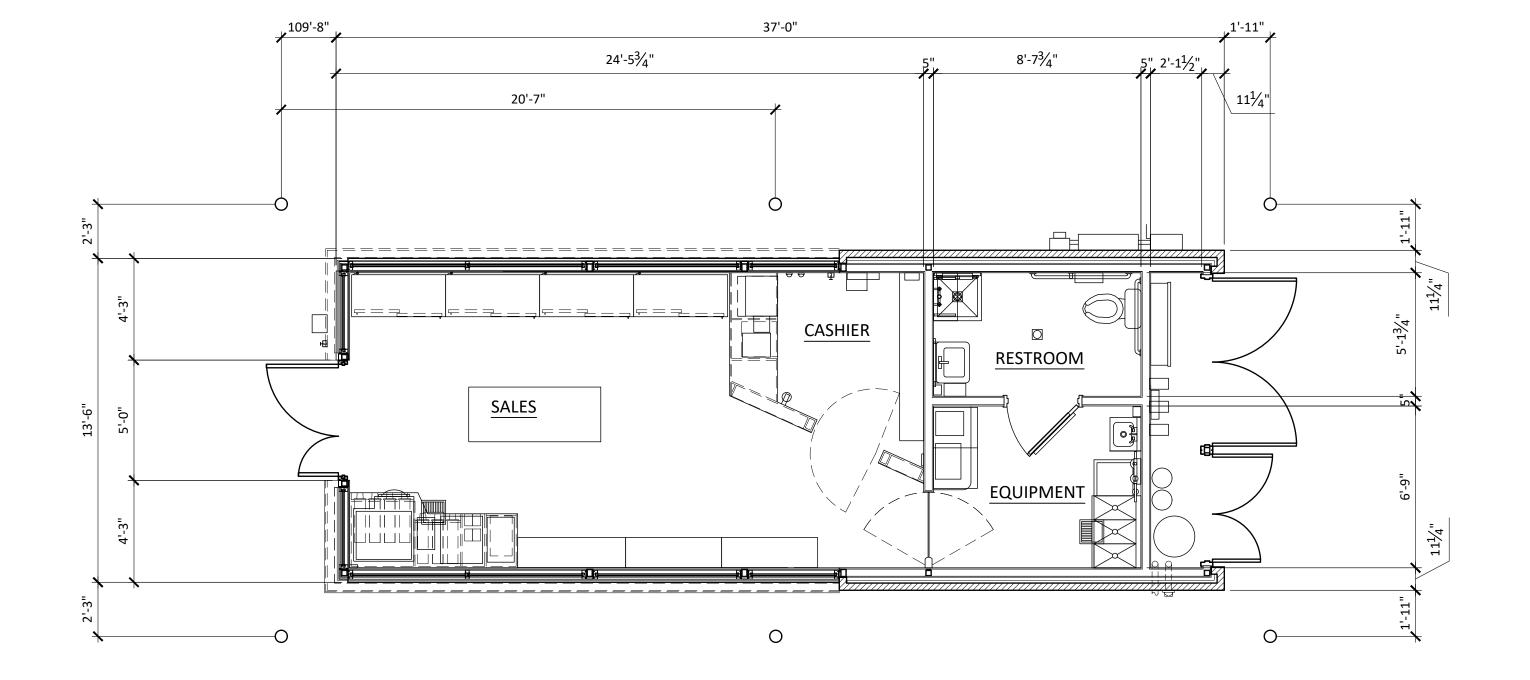
Applications Engineering 1121 Highway 74 South Peachtree City, GA 30269	tel no: 770-486-45xx fax no: 770-486-4599 e-mail: mkt-lightingapplications@ cooperlighting.com
COOPER Lighting Solutions	We make no representation as to its completeness, currency or accuracy because of reasons inherent to CAD and the additional digital data used to produce a lighting application. All digital CAD data appear to be extremely accurate, however, this apparent accuracy is an artifact of the techniques used to generate it, and is in no way intended to imply actual accuracy. The user of this data takes full responsibilityfor the accuracy and correctness of all measurements, area, inventories or other data extracted from this, either manually or with the use of a computer. This light level analysis is an estimate only, and is based on estimated reflectance values for interior applications or estimated pole locations based on specified light levels for exterior applications. Any variance from reflectance values, obstructions, light loss factors or dimensional data will affect the actual light levels obtained. This analysis is a mathematical model and can be only as accurate as is permitted by the third party software and the ES standards used. In addition calculated values may vary from actual measurements in certain situations due to variances, such as but not limited to, lamp output, input voltage ballast variances, manufacturing tolerances and application variances. The presence of objects will decrease light levels and may cause some shadowing. Lighting application drawings are being provided to the recipient of this disclaimer.
EL Date: 4/26/202 Drawn By: EL Date: 4/26/202 Scale: 1" = 50' Project No: 2300504B.	







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