Owner / Developer

THE SURNOW COMPANY

Tel. (248) 865-3000 x 102

CONTACT: Sam Surnow

Architect

BIDDISON ARCHITECTURE 320 Martin Street Suite 10 Birmingham, MI 48009 Tel. (248) 554-9500

CONTACT: Kevin Biddison, AIA

Civil Engineer

NOWAK & FRAUS ENGINEERS 46777 Woodward Ave. Pontiac, MI 48342-5032 Tel. (248) 332-7931 Fax. (248) 332-8257

CONTACT: Brad W. Brickel, P.E.

Landscape Architect

NOWAK & FRAUS ENGINEERS 46777 Woodward Ave. Pontiac, MI 48342-5032 Tel. (248) 332-7931 Fax. (248) 332-8257

CONTACT: George Ostrowski, LLS, LEED AP

OF MICHIGAN, DESCRIBED AS FOLLOWS:

OAKLAND COUNTY RECORDS.

TAX ID NUMBER: 24-13-303-021

LEGAL DESCRIPTION - PER TITLE COMMITMENT

LAND SITUATED IN THE CITY OF LATHRUP VILLAGE, COUNTY OF OAKLAND, STATE

MONTEREY STREET LYING EASTERLY OF LOT 1677 AND WESTERLY OF LOTS 1665 TO 1689, EXCEPT THAT PART OF VACATED SOUTHFIELD SQUARE LYING SOUTH OF

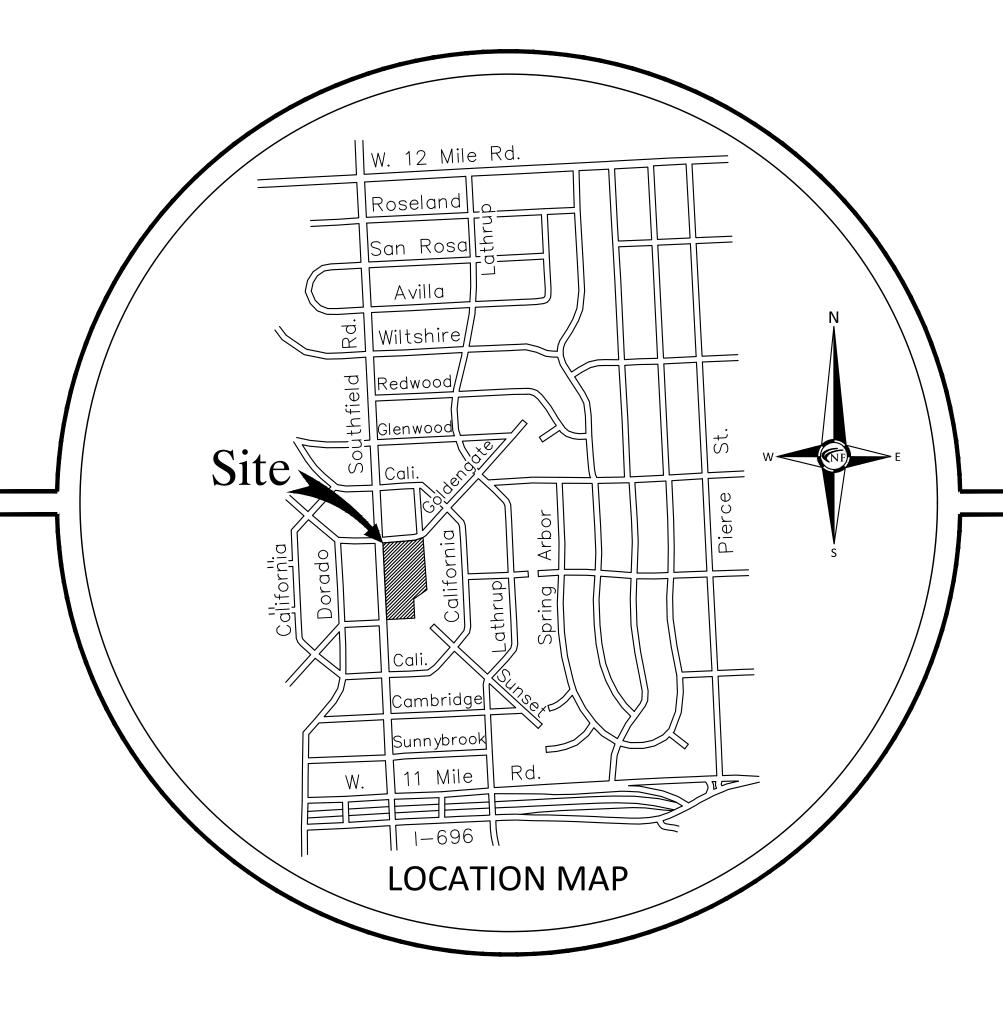
BUNGALOW SUBDIVISION NO. 3, AS RECORDED IN LIBER 32 OF PLATS, PAGE 26,

A LINE DRAWN BETWEEN THE NORTHWEST CORNER OF OF LOT 1680 AND A POINT 150 FEET FROM THE SOUTHEAST CORNER OF LOT 1677, ALONG THE EASTERLY BOUNDARY OF SAID LOT 1677, LOUISE LATHRUP'S CALIFORNIA

LOT 1677 AND VACATED SOUTHFIELD SQUARE, FORMERLY KNOWN AS

ADDRESS: 27700 SOUTHFIELD ROAD, LATHRUP VILLAGE, MI 48076

City of Lathrup, Oakland County, Michigan SITE PLAN DOCUMENTS Prepared For The Surnow Company



Project Name

27700 Southfield Road

SHEET INDEX **Cover Sheet**

Tree Survey **Demolition Plan**

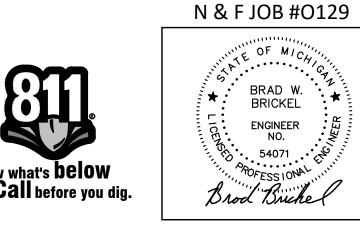
SP04	Fire Truck Turning Plan
SP05	Paving and Grading Plan
SP05.1	Paving and Grading Plan
SP06	Notes and Details
SP07	Utility Plan
SP08	Soil Erosion Plan
I 1	Tree Preservation Plan
	Landscaping Plan
LZ	
T.101	Title Sheet
A.101	First and Second Floor Plans
A.102	Third and Fourth Floor Plans
A.201	Exterior Elevations
A.202	Exterior Elevations
A.203	Exterior Elevations
A.301	Exterior Rendering
A.302	Exterior Rendering
A.303	Exterior Rendering
A.304	Interior Rendering
A.305	Interior Rendering
	SP05 SP05.1 SP06 SP07 SP08 L1 L2 T.101 A.101 A.102 A.201 A.202 A.203 A.301 A.302 A.303 A.304

Site Photometric Study

ALTA/NSPS Land Title/ Topographic/

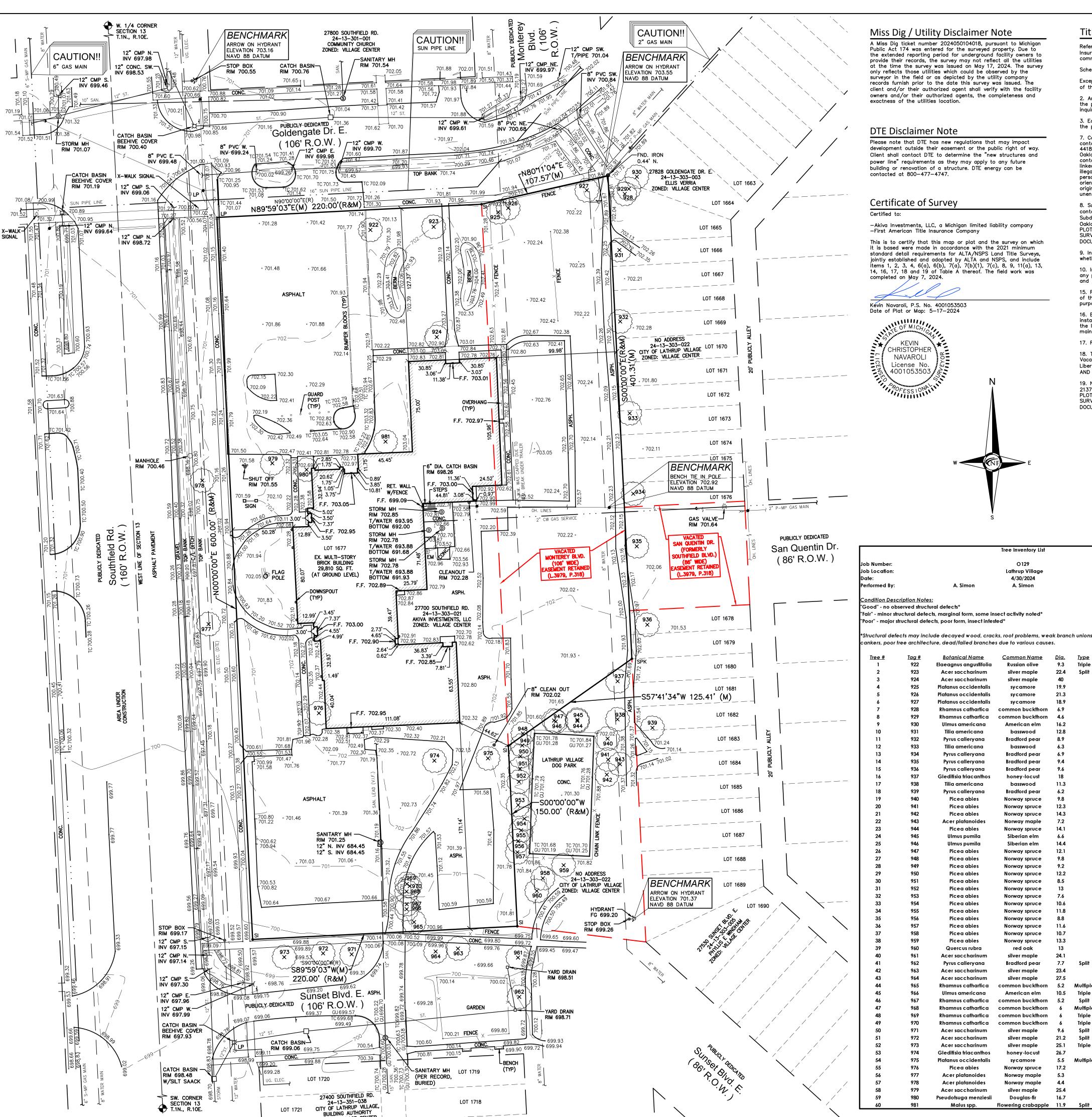
L.201

10-17-24 ISSUED FOR SITE PLAN REVIEW





NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NFE-ENGR.COM



Miss Dig / Utility Disclaimer Note

A Miss Dig ticket number 2024050104018, pursuant to Michigan Public Act 174 was entered for the surveyed property. Due to the extended reporting period for underground facility owners to provide their records, the survey may not reflect all the utilities at the time the survey was issued on May 17, 2024. The survey only reflects those utilities which could be observed by the surveyor in the field or as depicted by the utility company records furnish prior to the date this survey was issued. The client and/or their authorized agent shall verify with the facility owners and/or their authorized agents, the completeness and exactness of the utilities location.

DTE Disclaimer Note

Please note that DTE has new regulations that may impact development outside their easement or the public right of way. Client shall contact DTE to determine the "new structures and power line" requirements as they may apply to any future building or renovation of a structure. DTE energy can be contacted at 800-477-4747.

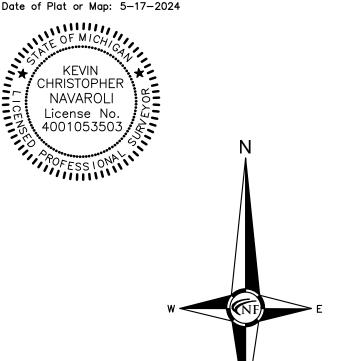
Certificate of Survey

Certified to:

-Akiva Investments, LLC, a Michigan limited liability company

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2021 minimum standard detail requirements for ALTA/NSPS Land Title Surveys. jointly established and adopted by ALTA and NSPS, and include items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b)(1), 7(c), 8, 9, 11(a), 13, 14, 16, 17, 18 and 19 of Table A thereof. The field work was completed on May 7, 2024.

Kévin Navaroli, P.S. No. 4001053503



<u>Botanical Name</u>

Elaeagnus angustifolia

Acer saccharinum

Acer saccharinum

latanus occidentali:

Platanus occidentali

Rhamnus cathartica

Ulmus americana

Tilia americana

Pyrus calleryand

Tilia americano

Pyrus calleryana

Pyrus calleryana

Pyrus calleryana

Gleditisia triacanthos

Tilia americana

Pyrus calleryand

Picea abies

Picea abies

Picea abies

Acer platanoide Picea abies

Ulmus pumila

Picea abies

Quercus rubra

Pyrus calleryana

Acer saccharinum

Acer saccharinum

Ulmus americana

Rhamnus cathartica

Rhamnus cathartica

Acer saccharinum

Acer saccharinum

Acer saccharinum

Picea abies

Acer platanoides

Acer platanoides

Acer saccharinum

Pseudotsuga menziesii

Eleditisia triacanthos

O 129

Lathrup Village

4/30/2024

Bradford pear

Bradford pear

Bradford pear

Bradford pear

honey-locust

Bradford pear

Norway spruce

Norway spruce

Siberian elm

Siberian elm

Norway spruce

red oak

Bradford pear

silver maple

silver maple

silver maple

honey-locust

Norway spruce

Norway maple

Norway maple

Douglas-fir

21.2

25.1

Split

Title Report Notes

Reference Title Connect, LLC (agent for: First American Title Insurance Company) commitment number: TC13-113055, commitment date: April 18, 2024.

Schedule B, Part II - Exceptions:

Exceptions: 1, 4, 5, 6, 11, 12, 13 and 14 refer to the ownership of the property and/or are not plottable.

2. Any facts, rights, interests, or claims that are not shown by the public records but that could be ascertained by making inquiry of persons in possession of the land.

3. Easements, encumbrances, or claims thereof, not shown by

7. Covenants, conditions and restrictions and other provisions as contained in instrument recorded in Liber 1088, Page 77, Liber 4418, Page 265, Liber 2677, Page 365, Liber 3296, Page 415, Oakland County Records. Please be advised that any provision contained in this document, or in a document that is attached, linked, or referenced in this document, that under applicable law

illegally discriminates against a class of individuals based upon personal characteristics such as race, color, religion, sex, sexual orientation, gender identity, familial status, disability, national origin, or any other legally protected class, is illegal and 8. Subject to the easements, restrictions and reservations contained in the Louise Lathrup's California Bungalow

Subdivision No. 3 Plat recorded at Liber 32, Page(s) 26, Oakland County Records. [DOCUMENT DOES NOT DESCRIBE ANY PLOTTABLE EASEMENTS OR PLOTTABLE RESTRICTIONS; THE SURVEYED LAND IS WITHIN THE PROPERTY DESCRIBED IN SAID

9. Interest of others in oil, gas and mineral rights, if any, whether or not recorded in the Public Records.

10. Interest, if any, of the United States, State of Michigan, or any political subdivision thereof, in the oil, gas and minerals in and under and that may be produced from the captioned Land. 15. Rights of the public and any governmental unit in any part of the land taken, deeded or used for street, road or highway

16. Easements, if any, for public utilities, pipelines or facilities installed in any portion of the vacated street or alley, lying within the land, together with the right of ingress and egress to repair, maintain, replace and remove the same.

17. Rights of tenants under any unrecorded leases.

18. Terms, conditions and provisions contained in Resolution Vacating Street and Reserving Easement recorded in Liber 3979, page 318. [EASEMENT IS WITHIN THE SURVEYED LAND AND ITS LOCATION IS SHOWN]

19. Notice of Historic District Designation recorded in Liber 21373, page 272. [DOCUMENT DOES NOT DESCRIBE ANY PLOTTABLE EASEMENTS OR PLOTTABLE RESTRICTIONS; THE SURVEYED LAND IS WITHIN THE PROPERTY DESCRIBED IN SAID

<u>Other Dia.</u>

Condition

Fair

Good

Good

Good

Good Suckers

Fair Half of crown dead

Good Some dead branches

Good Some dead branches

Good Pruned, near overhead power line

Good Pruned, near overhead power line

Pruned, has suckers

Good Crowded by surrounding tree

Trunk split

Good Shrubby understory

Good Shrubby understory Good Shrubby understory

Good Shrubby understory

Good Shrubby understory

Good Shrubby understory

Good Shrubby understory

Good Shrubby understory

Good Growing through chain link fence

Good Growing through chain link fence Good Growing through chain link fence

Good Growing through chain link fence

Good Limbs pruned near building

Good Limbs pruned near building

Good

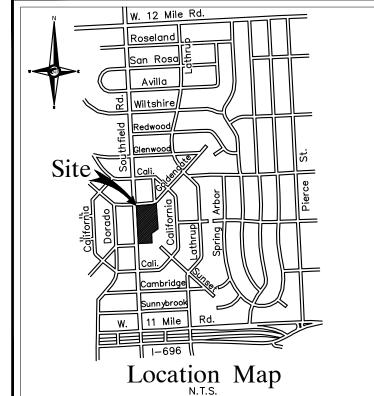
Main trunk removed, all matured sucke

Good Some dead branches

Crown broken of

Good Branches pruned

<u>Comments</u>



Survey Data Site area: 177,119 square feet or 4.066 acres

Zoned: Village Center District

<u>Parking spaces:</u> No Striped Parking Spaces

Building Setbacks: (L.1088, P.77 & L.4418, P.265) 40 feet 3 feet

A Surveyor cannot make a certification on the basis of an interpretation or opinion of another party. A zoning endorsement letter should be obtained from the City of Lathrup Village to insure conformity as well as make a final determination of the required building setback requirements.

Legal Description -Per Title Commitment

Land situated in the City of Lathrup Village, County of Oakland, State of Michigan, described as follows:

Lot 1677 and vacated Southfield Square, formerly known as Monterey Street lying Easterly of Lot 1677 and Westerly of Lots 1665 to 1689, except that part of vacated Southfield Square lying South of a line drawn between the Northwest corner of of 1677, along the Easterly boundary of said Lot 1677, Louise Lathrup's California Bungalow Subdivision No. 3, as recorded in Liber 32 of Plats, Page 26, Oakland County Records.

Tax ID Number: 24-13-303-021

Address: 27700 Southfield Road, Lathrup Village, MI 48076

ALTA Survey Notes

There is no visible evidence of current earth moving work,

There is no proposed changes in street right of way lines and there is no evidence of recent street or sidewalk construction or

There is no visible evidence of site use as a solid waste dump, sump or sanitary landfill. Location of utilities existing on or serving the property as

requested by the surveyor and obtained from utility companies. The subject property has access to Goldengate Drive, being a

Basis of Bearing Note

All bearings are in relation to the previously established East Right-of-Way line of Southfield Road (160' wide) of Louise Lathrup's California Bungalow Subdivision No. 3 as recorded in Liber 32 of Plats, Page 26, Oakland County Records. (Due North)

Flood Hazard Note

The property described on this survey does not lie within a special flood hazard area as defined by the Federal Emergency Management Agency; the property lies within Zone X of the Flood an effective date of 09/29/2006.

Topographic Survey Notes

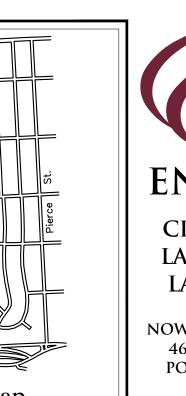
the completeness, or exactness of location.

All elevations are existing elevations, unless otherwise noted. Utility locations were obtained from municipal officials and

records of utility companies, and no guarantee can be made to

LEGEND	
MANHOLE(MH) S CO MH HYDRANT(HYD) GATE VALVE(GVW) MANHOLE(MH) CATCH BASIN(CB)	EXISTING SANITARY SEWER EXISTING SAN. CLEAN OUT EX. COMBINED (COMB.) SEW EXISTING WATER MAIN EXISTING STORM DRAIN
X CBB	EX. BEEHIVE CATCH BASIN
UTILITY POLE GUY POLE UP UP UP UP UP	EX. UNDERGROUND (UG.) CA OVERHEAD (OH.) LINES LIGHT POLE
٩	SIGN
· · ·	EXISTING GAS MAIN
ASPH.	ASPHALT
CONC.	CONCRETE
FD. / FND.	FOUND
RET. WALL	RETAINING WALL
R.O.W.	RIGHT-OF-WAY
SPK	SET PK NAIL
(TYP)	TYPICAL
(R)	RECORD
(M)	MEASURED
C/L	CENTERLINE
P/L	PROPERTY LINE
GM	GAS METER
EM LS	ELECTRIC METER LANDSCAPE
DS	DOWNSPOUT
20	20

GUARD POST



ENGINEERS CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

27700 Southfield Road Lathrup Village, MI 48076

CLIENT

The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102 Email: sam@surnow.com

PROJECT LOCATION Part of the SW 1/4 of Section 13 T.1N., R.10E. City of Lathrup Village,

Oakland County, Michigan

SHEET

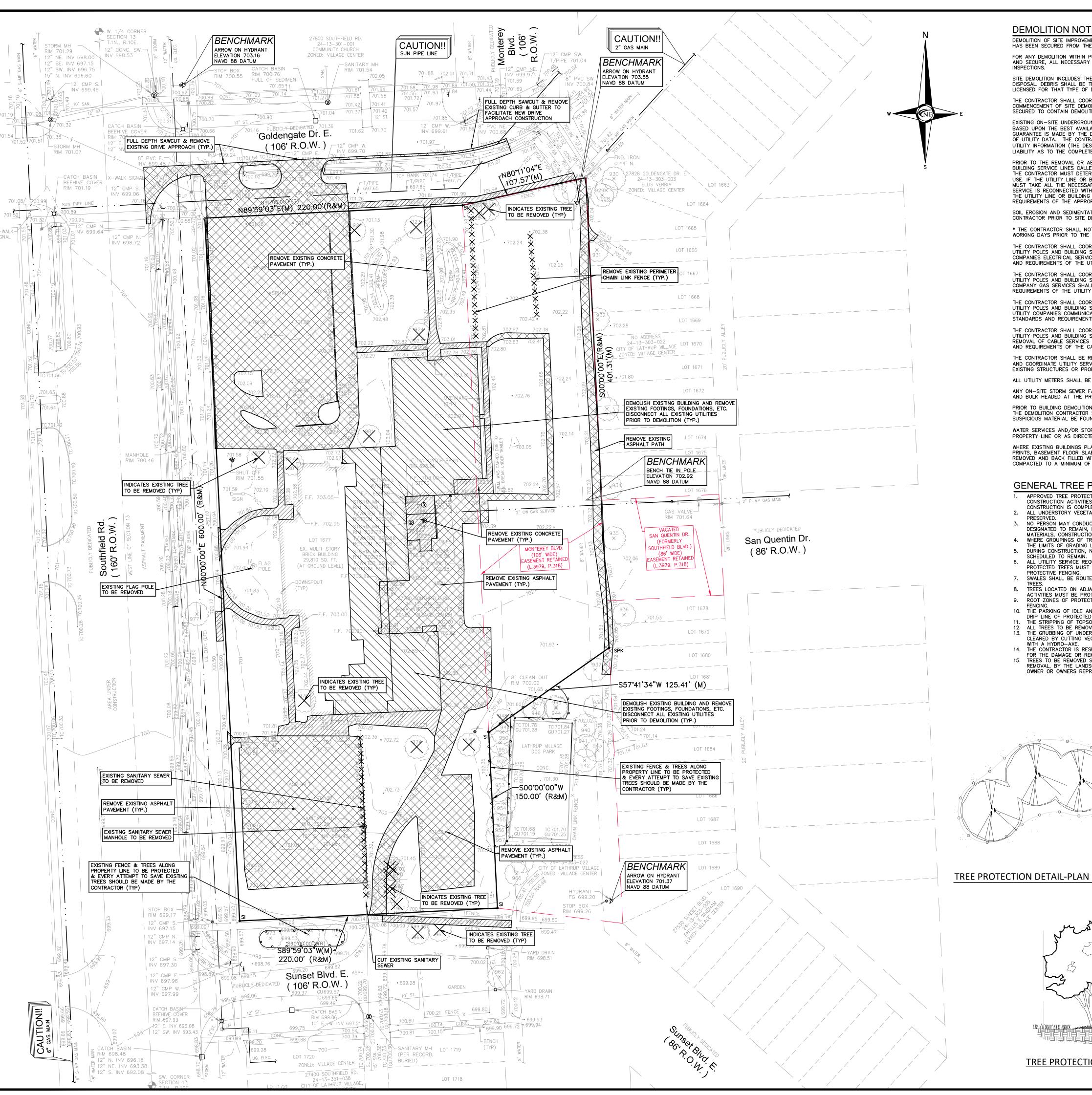
ALTA/NSPS Land Title / Topographic / Tree Survey



	carr before you dig.
DATE	ISSUED/REVISED
10-17-24 ISSU	JED FOR SITE PLAN REVIEW
DRAWN	BY:
M. Ca	ırnaghi
DESIGNI	ED BY:
APPROVI	ED BY:
K. Na	varoli

October 17, 2024 SCALE: 1'' = 40'

NFE JOB NO SHEET NO. **O129 SP01**



DEMOLITION NOTES

DEMOLITION OF SITE IMPROVEMENTS SHALL BE ALLOWED ONLY AFTER AN APPROVED PERMIT HAS BEEN SECURED FROM THE PUBLIC AGENCY HAVING JURISDICTION OVER SAID DEMOLITION. FOR ANY DEMOLITION WITHIN PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR, AND SECURE, ALL NECESSARY PERMITS AND LIKEWISE SHALL ARRANGE FOR ALL SITE

SITE DEMOLITION INCLUDES THE COMPLETE REMOVAL OF SITE IMPROVEMENTS AND OFF-SITE DISPOSAL. DEBRIS SHALL BE TRANSPORTED TO AN APPROPRIATE DISPOSAL FACILITY THAT IS LICENSED FOR THAT TYPE OF DEBRIS.

THE CONTRACTOR SHALL COORDINATE TRUCK ROUTES WITH THE MUNICIPALITY PRIOR TO COMMENCEMENT OF SITE DEMOLITION. ALL TRUCKS SHALL BE TARPED OR PROPERLY SECURED TO CONTAIN DEMOLITION DEBRIS PRIOR TO LEAVING SITE.

EXISTING ON-SITE UNDERGROUND UTILITIES AND BUILDING SERVICES HAVE BEEN INDICATED BASED UPON THE BEST AVAILABLE UTILITY RECORDS AND/OR ON-SITE INSPECTION. NO GUARANTEE IS MADE BY THE DESIGN ENGINEER, AS TO THE COMPLETENESS OR ACCURACY OF UTILITY DATA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF UTILITY INFORMATION (THE DESIGN ENGINEER MAKES NO GUARANTEE NOR ASSUMES ANY LIABILITY AS TO THE COMPLETENESS AND/OR ACCURACY OF UTILITY DATA).

PRIOR TO THE REMOVAL OR ABANDONMENT OF ANY EXISTING UNDERGROUND UTILITY OR BUILDING SERVICE LINES CALLED FOR IN THE PLANS OR DISCOVERED DURING EXCAVATION, THE CONTRACTOR MUST DETERMINE IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE. IF THE UTILITY LINE OR BUILDING SERVICE IS STILL IN USE/ACTIVE THE CONTRACTOR MUST TAKE ALL THE NECESSARY STEPS TO GUARANTEE THAT THE UTILITY LINE OR BUILDING SERVICE IS RECONNECTED WITHOUT AN INTERRUPTION IN SERVICE. THE RECONNECTION OF THE UTILITY LINE OR BUILDING SERVICE MUST BE IN ACCORDANCE WITH THE STANDARDS AND REQUIREMENTS OF THE APPROPRIATE GOVERNMENTAL AGENCY OR PRIVATE UTILITY COMPANY.

CONTRACTOR PRIOR TO SITE DEMOLITION. * THE CONTRACTOR SHALL NOTIFY MISS DIG (1-800-482-7171) A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF THE SITE DEMOLITION. THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES ELECTRICAL SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE

AND REQUIREMENTS OF THE UTILITY COMPANY.

REQUIREMENTS OF THE UTILITY COMPANY.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANY GAS SERVICES SHALL BE IN ACCORDANCE WITH THE STANDARDS AND

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE UTILITY COMPANY. REMOVAL OF THE UTILITY COMPANIES COMMUNICATION SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE UTILITY COMPANY.

THE CONTRACTOR SHALL COORDINATE THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITY POLES AND BUILDING SERVICES WITH THE APPROPRIATE CABLE MEDIA COMPANY. REMOVAL OF CABLE SERVICES SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND REQUIREMENTS OF THE CABLE COMPANY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFICATION OF PRIVATE UTILITY COMPANIES AND COORDINATE UTILITY SERVICE SHUT OFF/DISCONNECT, PRIOR TO DEMOLITION OF EXISTING STRUCTURES OR PROPERTIES.

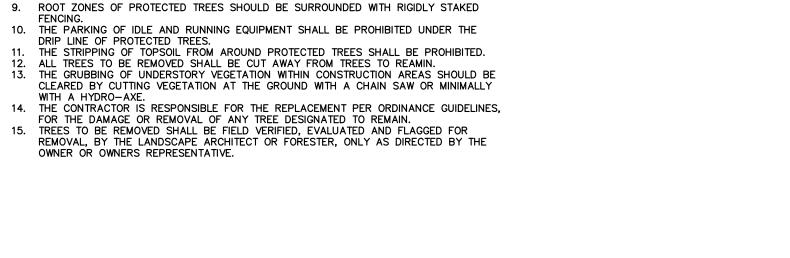
ALL UTILITY METERS SHALL BE REMOVED BY THE APPROPRIATE UTILITY COMPANY. ANY ON-SITE STORM SEWER FACILITIES LOCATED DURING DEMOLITION SHALL BE REMOVED AND BULK HEADED AT THE PROPERTY LINE IF INDICATED FOR REMOVAL ON THE PLANS.

PRIOR TO BUILDING DEMOLITION, ALL HAZARDOUS MATERIAL SHALL BE REMOVED BY OTHERS. THE DEMOLITION CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD ANY

WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BULK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER'S REPRESENTATION. WHERE EXISTING BUILDINGS PLANED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MDOT CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM DENSITY.

GENERAL TREE PROTECTION NOTES

- APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL CONSTRUCTION IS COMPLETE. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE
- 3. NO PERSON MAY CONDUCT ANY ACTIVITY WITHIN THE DRIP LINE OF ANY TREE DESIGNATED TO REMAIN, INCLUDING BUT NOT LIMITED TO, PLACING SOLVENTS. BUILDING MATERIALS, CONSTRUCTION EQUIPMENT, OR SOIL DEPOSITS WITHIN THE DRIP LINE. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT
- THE LIMITS OF GRADING LINE. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SCHEDULED TO REMAIN.
- ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE
- 7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED 8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED.



- 5/8" X 6'8" RE—ROD, OR EQUAL, SUPPORT POSTS

INSTALL POSTS A MIN. 24" INTO GROUND, TYPICAL

HIGH FENCING TO BE PLACED

AS INDICATED ON PLAN, TYPICAL

PROTECTION FENCING TO BE

CONSTRUCTION PERIOD

MAINTAINED THROUGHOUT THE

AT DRIP LINE OR LIMITS OF GRADING,

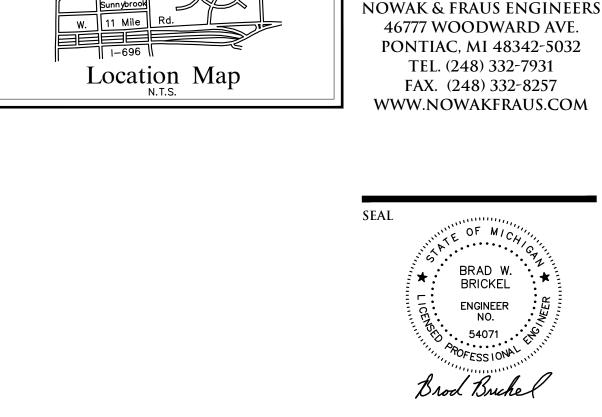
4' HIGH PROTECTIVE

FENCE PLACED AT

(XXX) (XMX) (XMX)

TREE PROTECTION DETAIL-SECTION

EVERY 10' O.C.



Avilla

PROJECT 27700 Southfield Road Lathrup Village, MI 48076

ENGINEERS

CIVIL ENGINEERS

LAND SURVEYORS

LAND PLANNERS

CLIENT The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102 Email: sam@surnow.com

PROJECT LOCATION Part of the SW 1/4 of Section 13 T.1N., R.10E., City of Lathrup Village, Oakland County, Michigan

SHEET

Demolition Plan



10-17-24 ISSUED FOR SITE PLAN REVIEW

ISSUED/REVISED

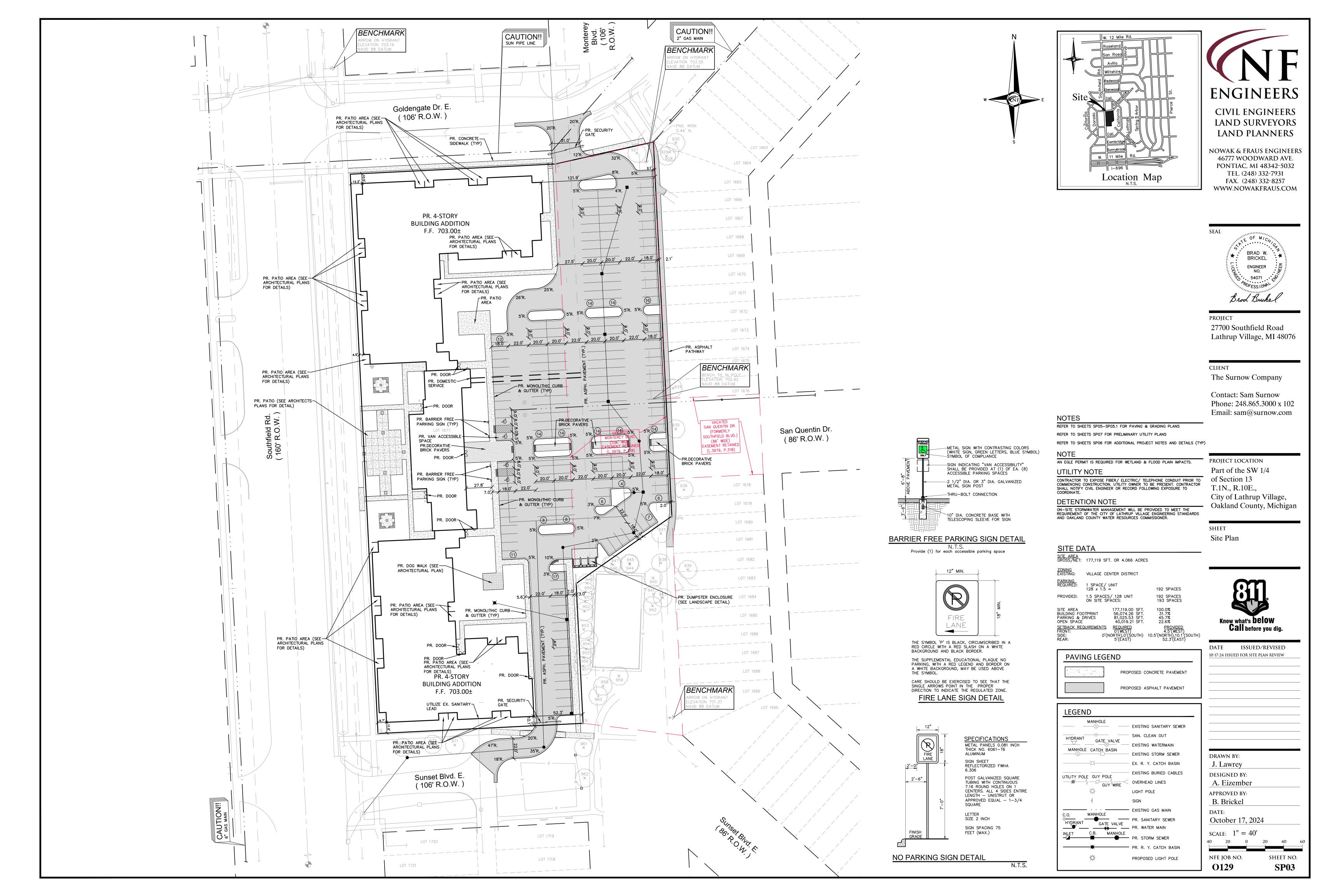
REMOVAL LEGEND INDICATES EXISTING BUILDING TO BE DEMOLISHED INDICATES AREAS OF ASPHALT PAVEMENT TO BE REMOVED INDICATES AREAS OF CONCRETE V////// PAVEMENT/ SIDEWALK TO BE REMOVED

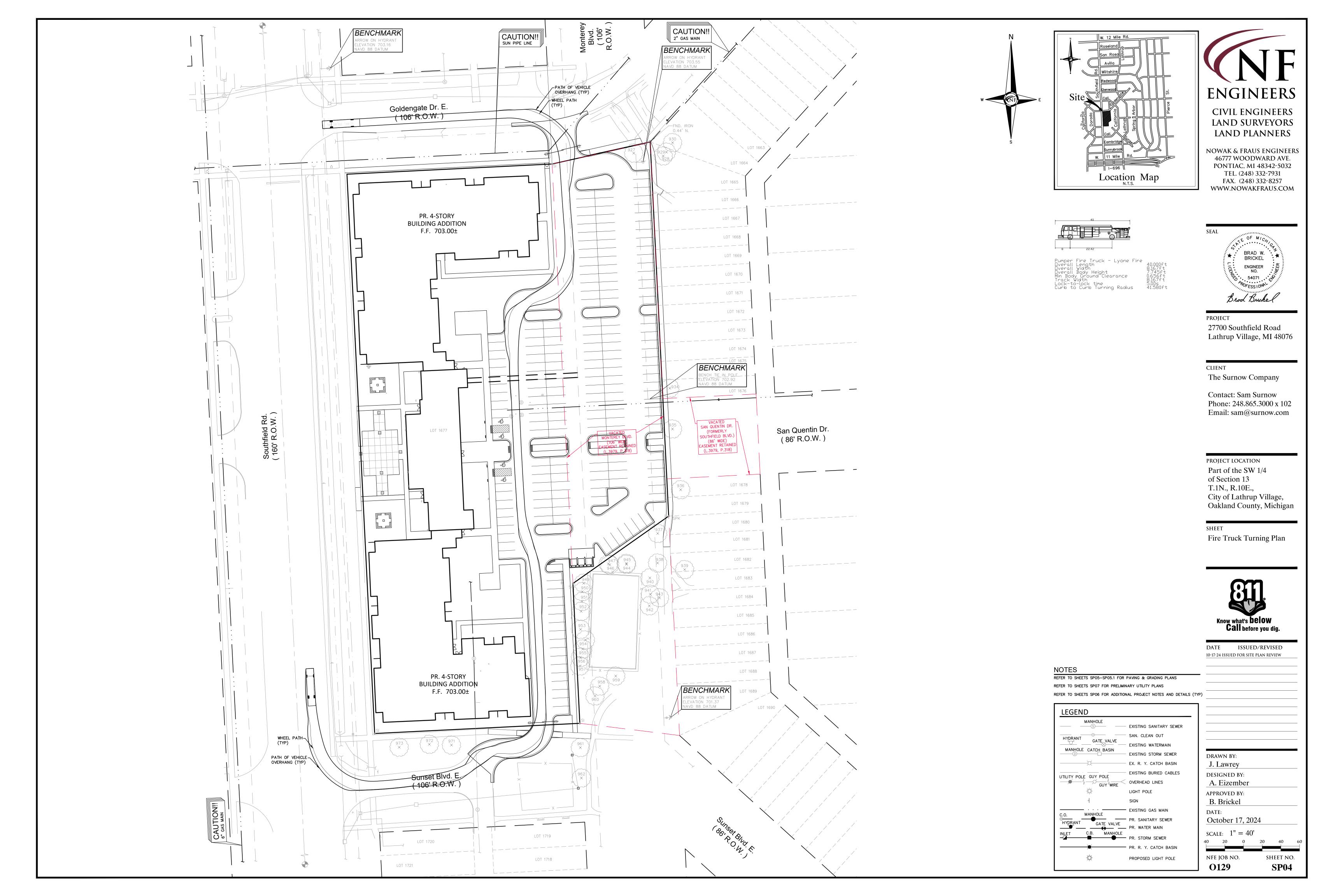
<u> </u>	OIDEWALK TO BE KEMOV
LEGEND	
MANHOLE S	EXISTING SANITARY SEWER
HYDRANT	EXISTING SAN. CLEAN OUT
GATE VALVE	EXISTING WATER MAIN
MANHOLE CATCH BASIN	EXISTING STORM SEWER
X	EX. R. Y. CATCH BASIN
UTILITY POLE GUY POLE	EXISTING BURIED CABLES
GUY WIRE	OVERHEAD LINES
*	LIGHT POLE
d	SIGN
···	EXISTING GAS MAIN
$\cdot \times \cdot \times$	EXISTING UTILITY TO BE REMOVED
. //. //. //. //. // .	EXISTING UTILITY TO

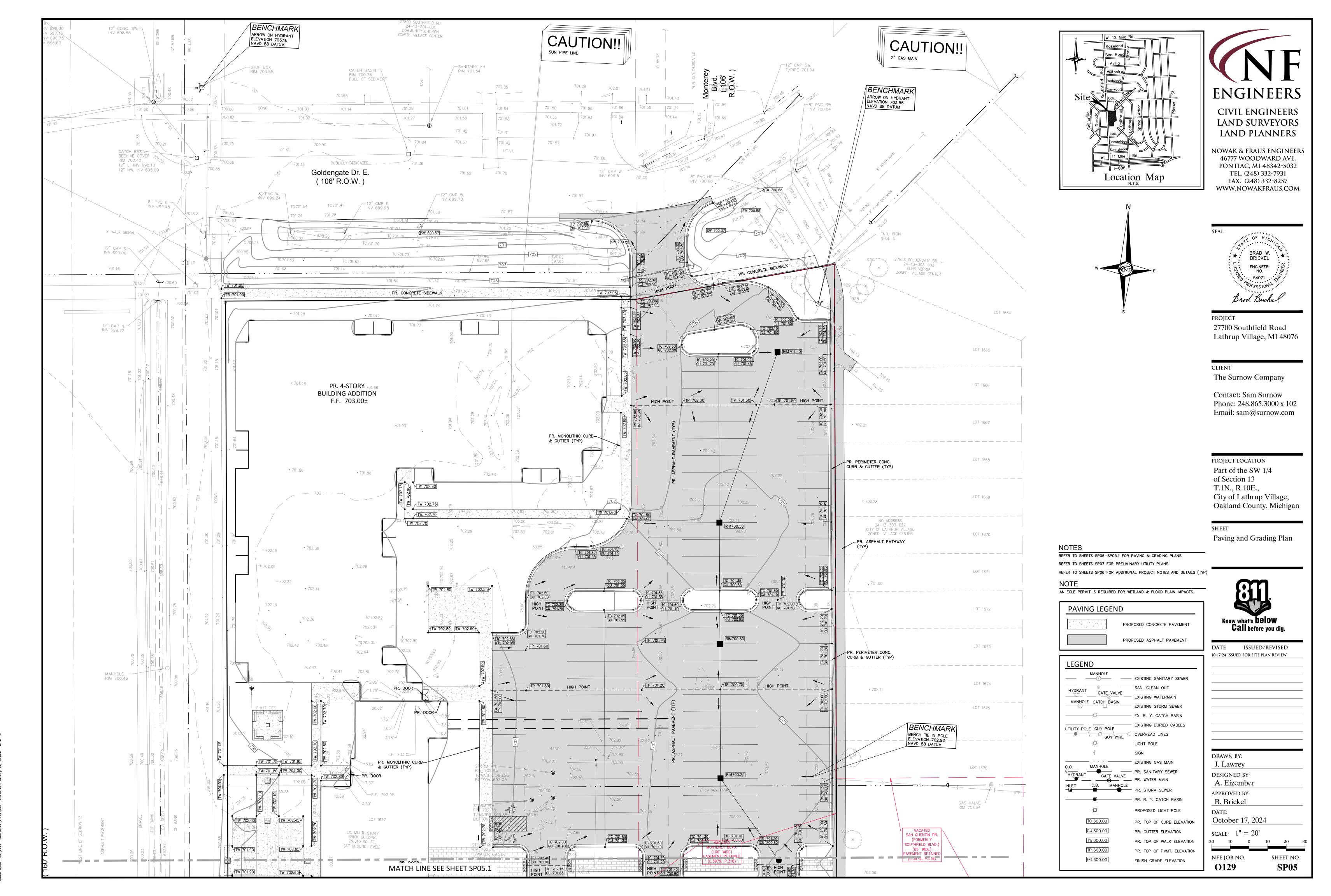
DRAWN BY:
J. Lawrey
DESIGNED BY:
A. Eizember
APPROVED BY:
B. Brickel
DATE:
October 17, 2024
SCALE: $1'' = 30'$
30 15 0 15

BE ABANDONED CONSTRUCTION/TREE PROTECTION FÉNCING INDICATES EXISTING TREE TO BE REMOVED NFE JOB NO.

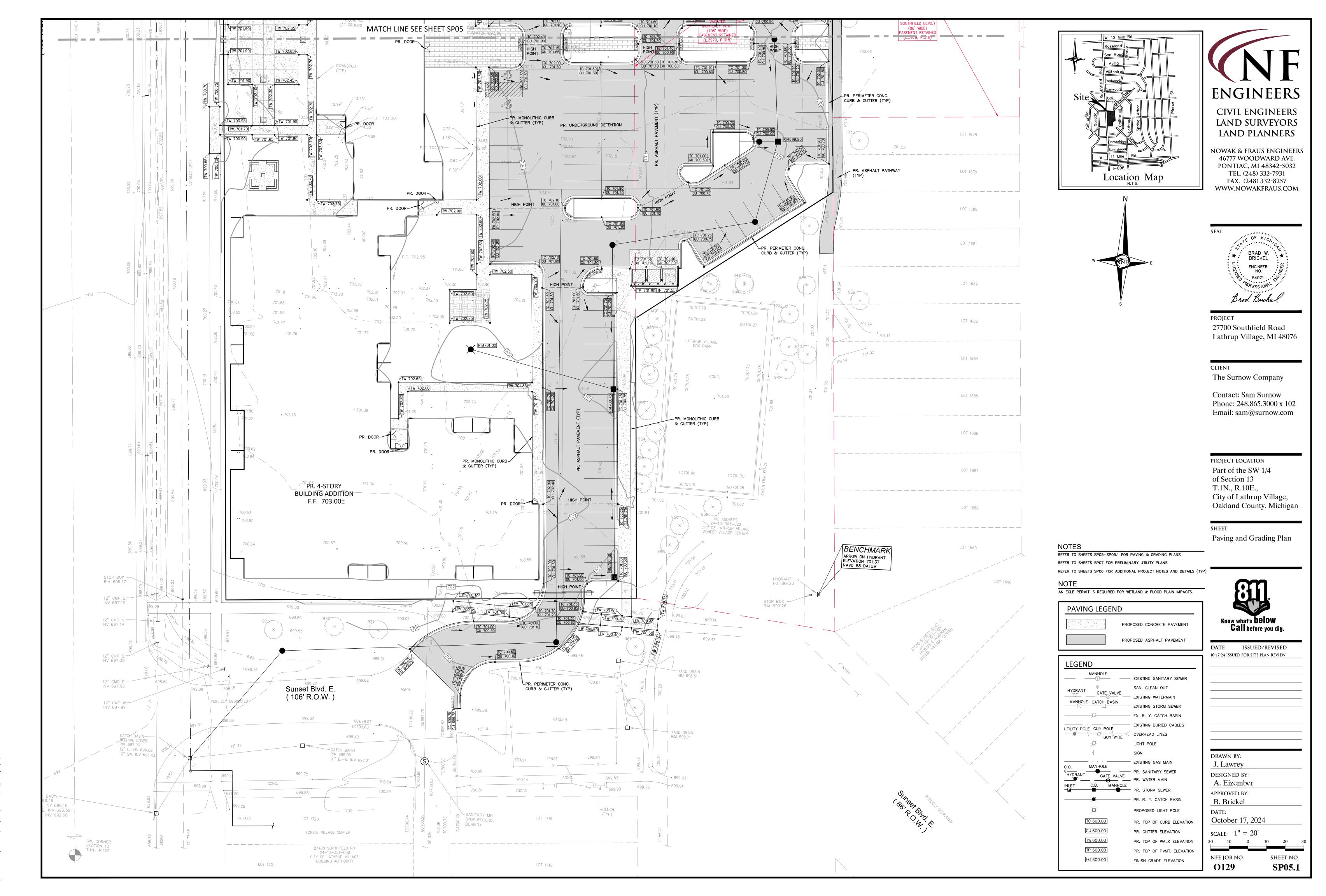
SHEET NO.



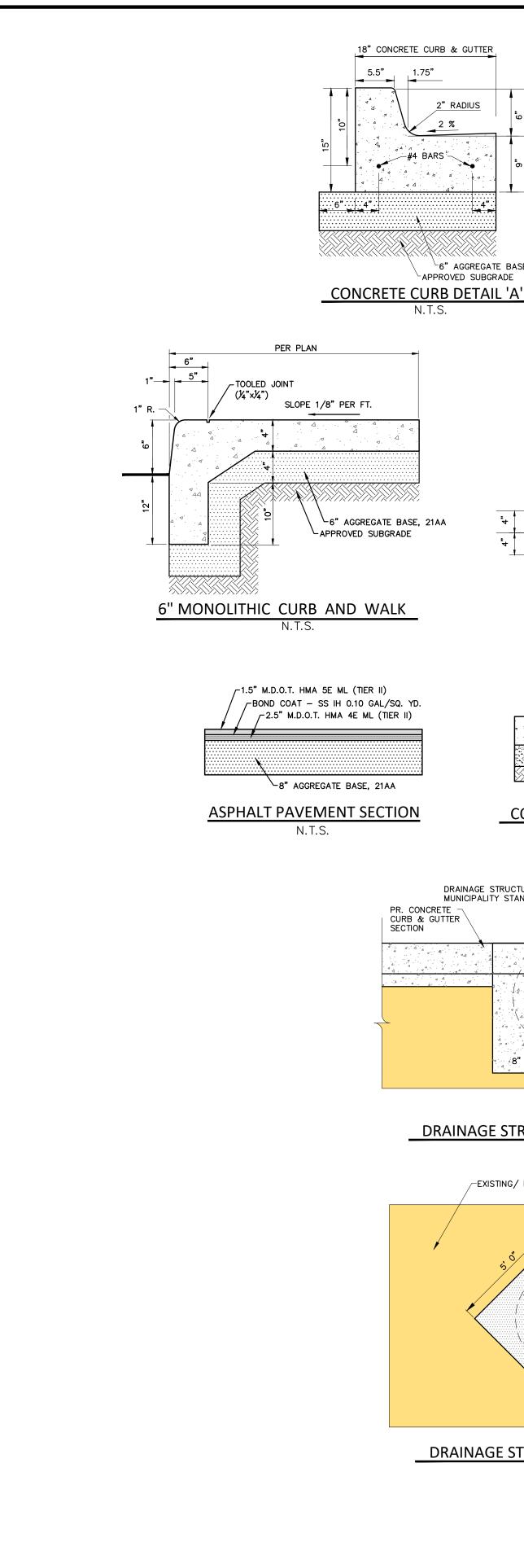


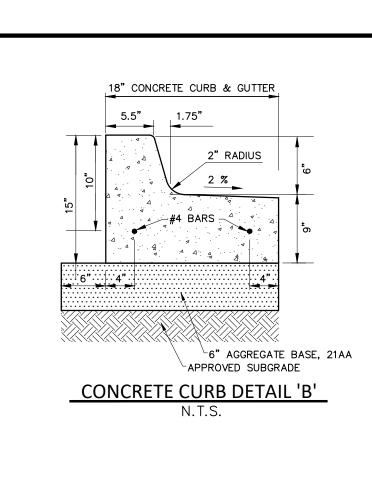


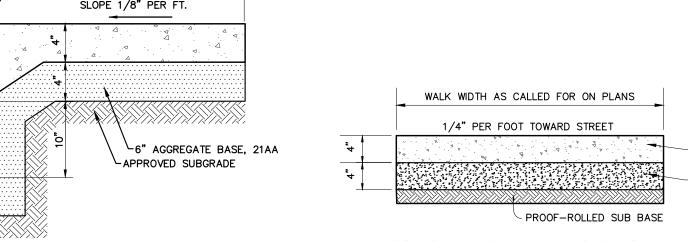
Plans (199 PG) dwg 10 /18 /2024 12:12 PM



\G500-Z000 Files\0000-FILES\0129\Office\Site Plans\0129_PGD.dwa 10/18/2024







DRAINAGE STRUCTURE PER-MUNICIPALITY STANDARD

PR. CONCRETE

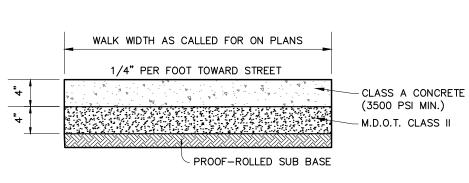
CURB & GUTTER SECTION

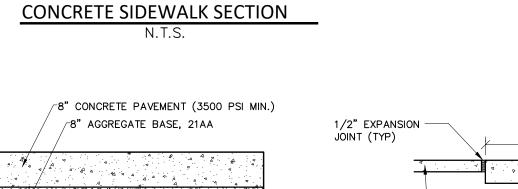
[∟]6" AGGREGATE BASE, 21AA

CAPPROVED SUBGRADE

2" RADIUS

∕-#4 BARS -





PROOF-ROLLED SUB BASE CONCRETE PAVEMENT SECTION N.T.S.

EXISTING/PROPOSED ASPHALT PAVEMENT

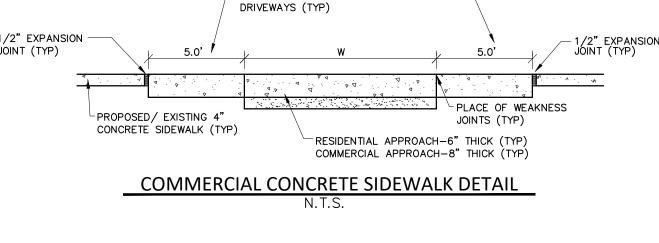
8" THICK CONCRETE COLLAR

8" THICK CONC. COLLAR

DRAINAGE STRUCTURE BOXOUT DETAIL I

EXISTING/ PROPOSED ASPHALT PAVEMENT-

DRAINAGE STRUCTURE BOXOUT DETAIL II



ADDITIONAL WIDTH REQUIRED —
AT ALLEYS AND COMMERCIAL

GENERAL PAVING NOTES

STRENGTH OF 3,500 PSI AND A SLUMP OF 1 1/2 TO 3 INCHES.

ALL CONCRETE PAVEMENT, DRIVEWAYS, CURB & GUTTER, ETC., SHALL BE SPRAY CURED WITH

ALL CONCRETE PAVEMENT JOINTS SHALL BE FILLED WITH HOT POURED RUBBERIZED ASPHALT JOINT SEALING COMPOUND IMMEDIATELY AFTER SAWCUT OPERATION. FEDERAL SPECIFICATION

ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CURRENT STANDARDS AND SPECIFICATIONS OF THE MUNICIPALITY AND THE MICHIGAN DEPARTMENT OF

TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION, CURRENT EDITION.

ALL TOP OF CURB ELEVATIONS, AS SHOWN ON THE PLANS, ARE CALCULATED FOR A 6" CONCRETE CURB UNLESS OTHERWISE NOTED.

CONSTRUCTION OF A NEW OR RECONSTRUCTED DRIVE APPROACH CONNECTING TO AN EXISTING STATE OR COUNTY ROADWAY SHALL BE ALLOWED ONLY AFTER AN APPROVED

ALL SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1993, SHALL BE INSTALLED AS

PERMIT HAS BEEN SECURED FROM THE AGENCY HAVING JURISDICTION OVER SAID ROADWAY.

FOR ANY WORK WITHIN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND LIKEWISE ARRANGE FOR ALL INSPECTION.

EXISTING TOPSOIL, VEGETATION AND ORGANIC MATERIALS SHALL BE STRIPPED AND REMOVED

SIDEWALK RAMPS, CONFORMING TO PUBLIC ACT NO. 8, 1973, SHALL BE INSTALLED AS SHOWN AT ALL STREET INTERSECTIONS AND AT ALL BARRIER FREE PARKING AREAS AS INDICATED ON THE PLANS.

GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF BASE MATERIALS AND PAVING

FILL AREAS SHALL BE MACHINE COMPACTED IN UNIFORM LIFTS NOT EXCEEDING 9 INCHES

THICK TO 98% OF THE MAXIMUM DENSITY (MODIFIED PROCTOR) PRIOR TO PLACEMENT OF

ALL PAVEMENT AREAS SHALL BE PROOF-ROLLED UNDER THE SUPERVISION OF A

FROM PROPOSED PAVEMENT AREA PRIOR TO PLACEMENT OF BASE MATERIALS. EXPANSION JOINTS SHOULD BE INSTALLED AT THE END OF ALL INTERSECTION RADII.

BASE COURSE — MDOT BITUMINOUS MIXTURE HMA, 4E ML; SURFACE COURSE — MDOT BITUMINOUS MIXTURE HMA, 5E ML;

PAVEMENT BASE SHALL BE COMPACTED TO 95% OF THE MAXIMUM DENSITY (MODIFIED

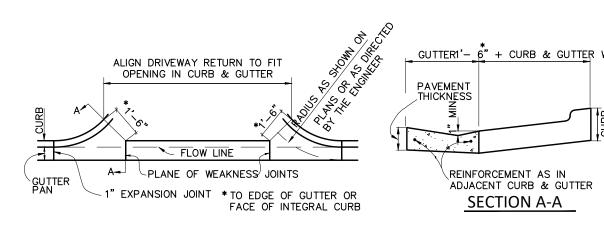
WHITE MEMBRANE CURING COMPOUND IMMEDIATELY FOLLOWING FINISHING OPERATION.

PROOF-ROLLED IN THE PRESENCE OF THE ENGINEER TO DETERMINE STABILITY.

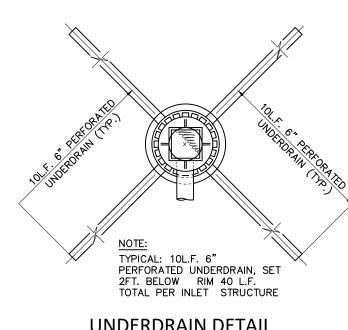
PLANS AND AS FOLLOWS:

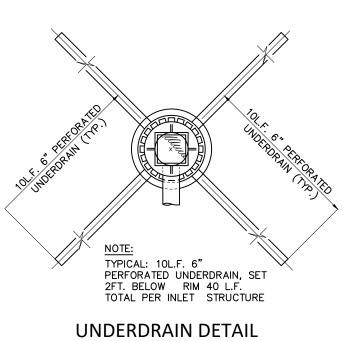
INDICATED ON THE PLANS.

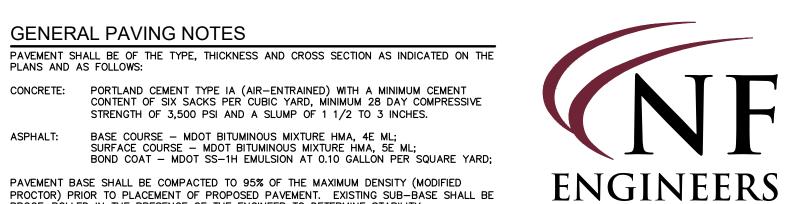
PROPOSED PAVEMENT.



MDOT DRIVEWAY OPENING DETAIL 'M'

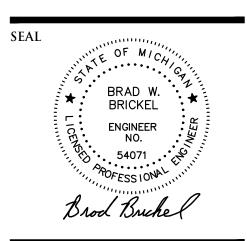






CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM



PROJECT 27700 Southfield Road Lathrup Village, MI 48076

CLIENT The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102 Email: sam@surnow.com

PROJECT LOCATION Part of the SW 1/4 of Section 13 T.1N., R.10E., City of Lathrup Village, Oakland County, Michigan

Notes and Details



DATE ISSUED/REVISED 10-17-24 ISSUED FOR SITE PLAN REVIEW

DRAWN BY: J. Lawrey **DESIGNED BY:**

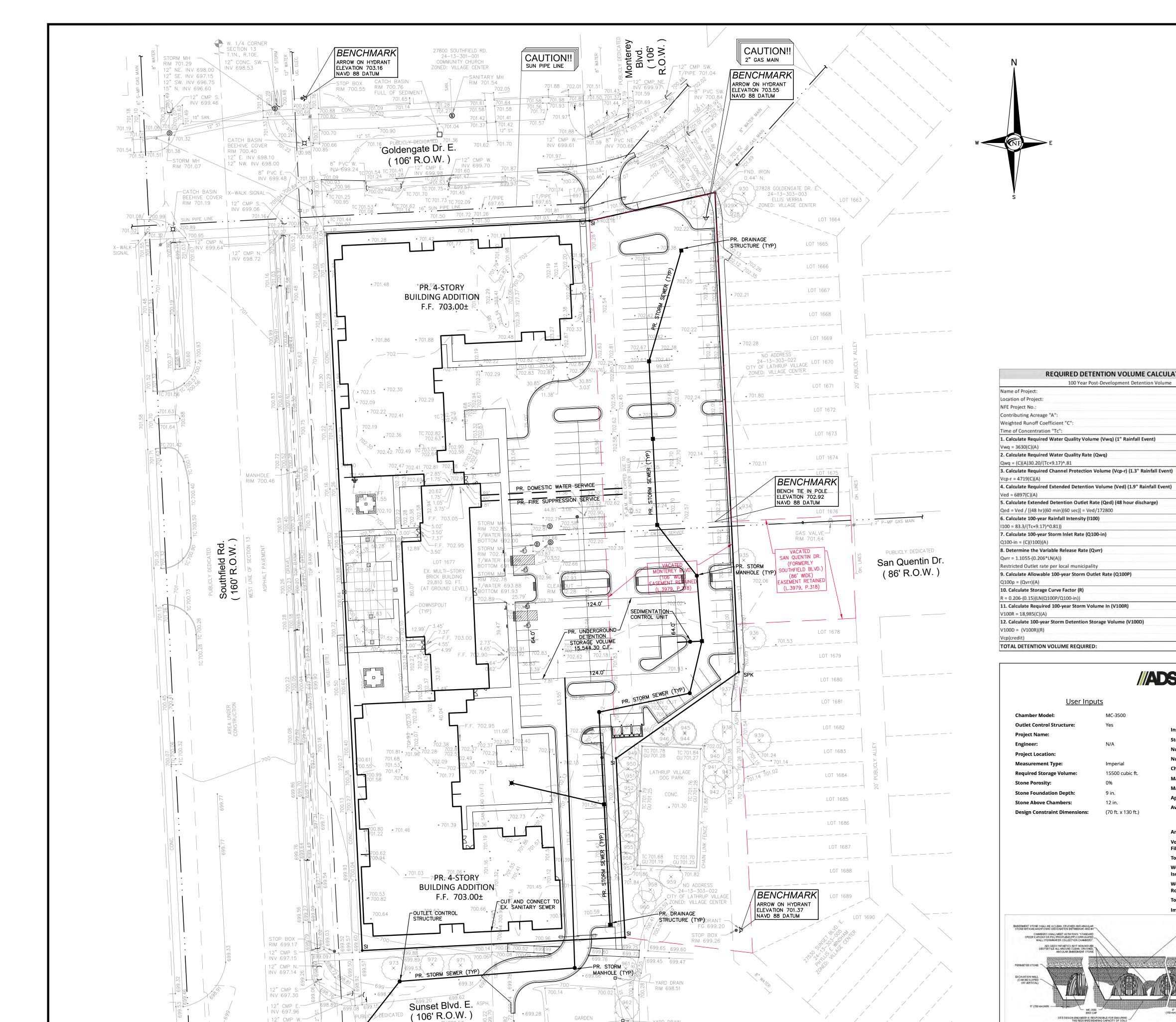
A. Eizember APPROVED BY:

B. Brickel October 17, 2024

SCALE: N.T.S.

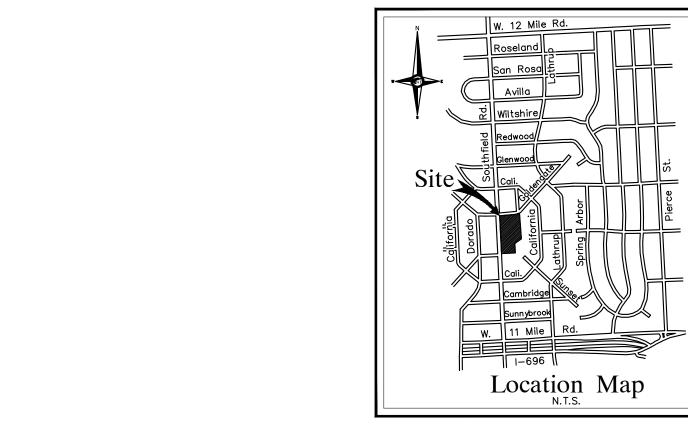
NFE JOB NO. **O129**

SHEET NO. **SP06**



CITY OF LATHRUP VILLAGE,

RIM 698.71



REQUIRED DETENTION VOLUME CALCULATIONS

Location

9999-00

4.07 ac

0.80

10.00 min

11,819 cft

8.99 cfs

0.13 cfs

24.80 cfs

7.62 in/hr

0.82 cfs/ac

N/A cfs/ac

61,815 cft

31,371 cft

31,371 cft

Number Of End Caps Required:

Approx. Bed Size Required:

Isolator Row):

Average Cover Over Chambers:

Impervious Liner Required:

(150 mm) MIN - 77" (1950 mm) - 12" (300 mm) TYP

<u>Results</u>

System Volume and Bed Size

System Components

Amount Of Stone Required: 1009 cubic yards

Volume Of Excavation (Not Including 1585 cubic yards

Total Non-woven Geotextile Required:2357 square yards Woven Geotextile Required (excluding 117 square yards

Woven Geotextile Required (Isolator 139 square yards

Total Woven Geotextile Required: 255 square yards

124.55 ft.

64.35 ft.

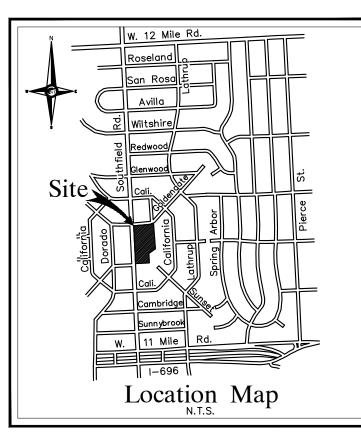
7776.08 square ft.

<u>User Inputs</u>

(70 ft. x 130 ft.)

SITE DESIGN ENGINEER IS RESPONSIBLE FOR ENSURING THE REQUIRED BEARING CAPACITY OF SOILS

MINIMUM COVER TO BOTTOM OF FLEXIBLE PAYEMENT. FOR UNPAYED INSTALLATIONS WHERE RUTTING FROM VEHICLES MAY OCCUR, INCREASE COVER TO 24"

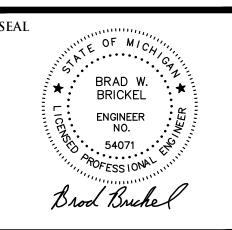


PROVIDED DETENTION VOLUME CALC	ULATIONS
Circular Underground Detention System	1
PIPE STORAGE VOLUME	
Total Linear Feet of Proposed U.G. Detention Pipe	1,225
Proposed Pipe Diameter	48
Proposed Pipe Cross-Sectional Area	12.57
Total Storage Provided in Pipe	15,394
STONE TRENCH STORAGE VOLUME	
Proposed Porous Stone Trench Width	0.00
Proposed Porous Stone Trench Height (Above Pipe Invert)	0.00
Cross-Sectional Area of Trench	0.00
Subtract Pipe Cross-Sectional Area	-12.57
Net Cross-Sectional Porous Stone Trench Area	-12.57
Minimum Stone Trench Backfill Porosity (%)	0
Effective Storage Provided in Trench Backfill Cross-Section	0.00
Total Storage Provided in Porous Stone Trench	0
TOTAL U.G. DETENTION VOLUME PROVIDED	15,394

PROVIDED DETENTION VOLUME CALCU	JLATIONS	
Circular Underground Detention System		
PIPE STORAGE VOLUME		
Total Linear Feet of Proposed U.G. Detention Pipe	1,225	ft
Proposed Pipe Diameter	48	in
Proposed Pipe Cross-Sectional Area	12.57	sft
Total Storage Provided in Pipe	15,394	cft
STONE TRENCH STORAGE VOLUME		
Proposed Porous Stone Trench Width	0.00	ft
Proposed Porous Stone Trench Height (Above Pipe Invert)	0.00	ft
Cross-Sectional Area of Trench	0.00	sft
Subtract Pipe Cross-Sectional Area	-12.57	sft
Net Cross-Sectional Porous Stone Trench Area	-12.57	sft
Minimum Stone Trench Backfill Porosity (%)	0	%
Effective Storage Provided in Trench Backfill Cross-Section	0.00	sft
Total Storage Provided in Porous Stone Trench	0	cft
TOTAL U.G. DETENTION VOLUME PROVIDED	15,394	cft



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SHEET

Utility Plan

REFER TO SHEETS SP06 FOR ADDITIONAL PROJECT NOTES AND DETAILS (TYP) CONTRACTOR TO EXPOSE FIBER. ELECTRIC/ TELEPHONE CONDUIT PRIOR TO COMMENCING CONSTRUCTION. UTILITY OWNER TO BE PRESENT. CONTRACTOR

SHALL NOTIFY CIVIL ENGINEER OF RECORD FOLLOWING EXPOSURE TO COORDINATE. UTILITY CROSSING NOTE

UTILITY NOTE

REFER TO SHEETS SP05-SP05.1 FOR PAVING & GRADING PLANS

REFER TO SHEETS SP07 FOR PRELIMINARY UTILITY PLANS

AT LOCATION WHERE THERE ARE CROSSING WITH EXISTING UTILITIES AND THEIR DEPTHS ARE UNKNOWN, 18" VERTICAL SEPARATION WILL BE MAINTAINED WHENEVER POSSIBLE. IF THE 18" SEPARATION IS NOT OBTAINABLE, A CONCRETE ENCASEMENT WILL BE INSTALLED AT THE CROSSING.

CONTRACTOR SHALL MAINTAIN A MINIMUM OF 18" VERTICAL CLEARANCE AND A MINIMUM OF 10' HORIZONTAL SEPARATION BETWEEN UTILITIES. WHERE 10' SEPARATION CANNOT BE MAINTAINED, 18" VERTICAL CLEARANCE SHALL BE PROVIDED AND UTILITIES SHALL BE CONSTRUCTED IN SEPARATE TRENCHES. CONTRACTOR SHALL FIELD VERIFY EXACT DEPTH OF EXISTING PIPE WHERE EXISTING CROSSES PROPOSED. CONTACT ENGINEER IF CONFLICT OCCURS.

AT LOCATION WHERE WATER MAIN CROSSES STORM, SANITARY, OR OTHER UTILITIES, CONTRACTOR SHALL PLACE A FULL 20' SEGMENT OF WATER MAIN PIPE CENTERED AT THE CROSSING. CLEARANCE BETWEEN PIPE SHALL NOT BE

MANHOLE S	- EXISTING SANITARY SEWEF
	SAN. CLEAN OUT
GATE VALVE	EXISTING WATER MAIN
MANHOLE CATCH BASIN	EXISTING STORM SEWER
<u> </u>	EX. R. Y. CATCH BASIN
JTILITY POLE GUY POLE	EXISTING BURIED CABLES
TILITY POLE GUY POLE GUY WIRE	OVERHEAD LINES
*	LIGHT POLE
٩	SIGN
	- EXISTING GAS MAIN
O. MANHOLE HYDRANT GATE VALVE	PR. SANITARY SEWER
- ONTE VALVE	PR. WATER MAIN
NLET C.B. MANHOLE	- PR. STORM SEWER
<u> </u>	PR. R. Y. CATCH BASIN

SAND BACKFILL

(95 % DENSITY)

PROPOSED LIGHT POLE



T BE	:
7	
1	
1	
1	
1	
1	
1	DRAWN BY:
1	J. Lawrey
1	
1	DESIGNED BY:
1	A. Eizember
1	APPROVED BY:
1	B. Brickel
	DATE:
	October 17, 2024
1	

CATCH BASIN

RIM 697.93 12" E. INV 696.08

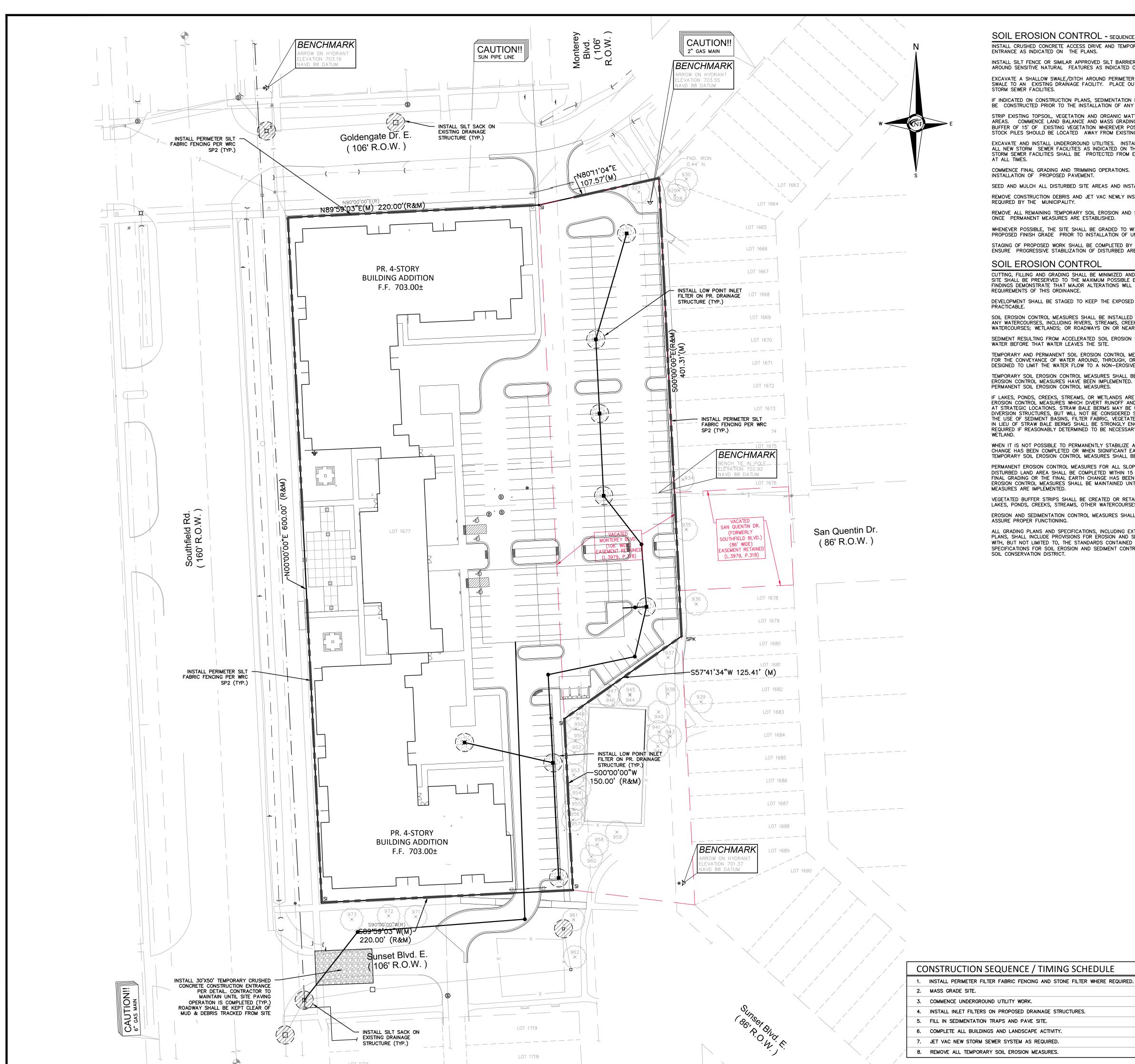
2" N. INV 696.18

12" NE. INV 693.38

³ 12" S. INV 692.08 →

SCALE: 1'' = 40'

SHEET NO.



SOIL EROSION CONTROL - SEQUENCE OF OPERATION (NEW CONSTRUCTION) INSTALL CRUSHED CONCRETE ACCESS DRIVE AND TEMPORARY CULVERTS AT THE SITE

INSTALL SILT FENCE OR SIMILAR APPROVED SILT BARRIER ALONG PROPERTY LINES AND AROUND SENSITIVE NATURAL FEATURES AS INDICATED ON THE PLANS.

EXCAVATE A SHALLOW SWALE/DITCH AROUND PERIMETER OF SITE. GRADE THE TEMPORARY SWALE TO AN EXISTING DRAINAGE FACILITY. PLACE OUTLET FILTER IN EXISTING UPSTREAM

IF INDICATED ON CONSTRUCTION PLANS, SEDIMENTATION BASINS, DETENTION POND, ETC., SHALL BE CONSTRUCTED PRIOR TO THE INSTALLATION OF ANY OTHER WORK. STRIP EXISTING TOPSOIL, VEGETATION AND ORGANIC MATTER FROM BUILDING PAD AND PARKING AREAS. COMMENCE LAND BALANCE AND MASS GRADING OPERATIONS. MAINTAIN A MINIMUM BUFFER OF 15' OF EXISTING VEGETATION WHEREVER POSSIBLE AROUND SITE PERIMETER.

STOCK PILES SHOULD BE LOCATED AWAY FROM EXISTING DRAINAGE FACILITIES. EXCAVATE AND INSTALL UNDERGROUND UTILITIES. INSTALL PEASTONE INLET FILTERS AROUND ALL NEW STORM SEWER FACILITIES AS INDICATED ON THE PLANS. EXISTING AND PROPOSED

STORM SEWER FACILITIES SHALL BE PROTECTED FROM EROSION AND SEDIMENT INFILTRATION

COMMENCE FINAL GRADING AND TRIMMING OPERATIONS. PREPARE SUBGRADE FOR INSTALLATION OF PROPOSED PAVEMENT.

SEED AND MULCH ALL DISTURBED SITE AREAS AND INSTALLED SITE LANDSCAPING. REMOVE CONSTRUCTION DEBRIS AND JET VAC NEWLY INSTALLED STORM SEWER SYSTEM AS REQUIRED BY THE MUNICIPALITY.

REMOVE ALL REMAINING TEMPORARY SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ONCE PERMANENT MEASURES ARE ESTABLISHED. WHENEVER POSSIBLE, THE SITE SHALL BE GRADED TO WITHIN SIX INCHES (6") OF THE PROPOSED FINISH GRADE PRIOR TO INSTALLATION OF UNDERGROUND FACILITIES.

STAGING OF PROPOSED WORK SHALL BE COMPLETED BY THE CONTRACTOR AS REQUIRED TO ENSURE PROGRESSIVE STABILIZATION OF DISTURBED AREAS.

SOIL EROSION CONTROL

CUTTING, FILLING AND GRADING SHALL BE MINIMIZED AND THE NATURAL TOPOGRAPHY OF THE SITE SHALL BE PRESERVED TO THE MAXIMUM POSSIBLE EXTENT, EXCEPT WHERE SPECIFIC FINDINGS DEMONSTRATE THAT MAJOR ALTERATIONS WILL STILL MEET THE PURPOSES AND REQUIREMENTS OF THIS ORDINANCE.

DEVELOPMENT SHALL BE STAGED TO KEEP THE EXPOSED AREAS OF SOIL AS SMALL AS PRACTICABLE.

SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED BETWEEN THE DISTURBED AREA AND ANY WATERCOURSES, INCLUDING RIVERS, STREAMS, CREEKS, LAKES, PONDS AND OTHER WATERCOURSES; WETLANDS; OR ROADWAYS ON OR NEAR THE SITE.

SEDIMENT RESULTING FROM ACCELERATED SOIL EROSION SHALL BE REMOVES FROM RUNOFF WATER BEFORE THAT WATER LEAVES THE SITE. TEMPORARY AND PERMANENT SOIL EROSION CONTROL MEASURES DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR AWAY FROM THE SITE SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.

TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AFTER PERMANENT SOIL EROSION CONTROL MEASURES HAVE BEEN IMPLEMENTED. ALL SITES SHALL BE STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES.

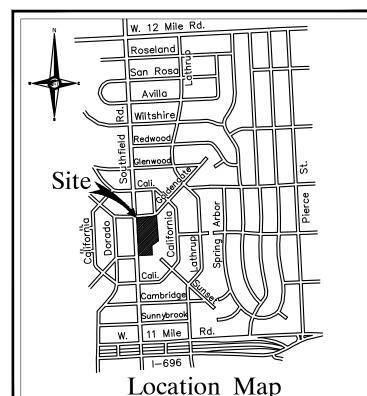
IF LAKES, PONDS, CREEKS, STREAMS, OR WETLANDS ARE LOCATED ON OR NEAR THE SITE, EROSION CONTROL MEASURES WHICH DIVERT RUNOFF AND TRAP SEDIMENT MUST BE PROVIDED AT STRATEGIC LOCATIONS. STRAW BALE BERMS MAY BE USED AS TEMPORARY STORMWATER DIVERSION STRUCTURES, BUT WILL NOT BE CONSIDERED SUFFICIENT FOR TRAPPING SEDIMENT. THE USE OF SEDIMENT BASINS, FILTER FABRIC, VEGETATED BUFFER STRIPS, AND ROCK FILTERS IN LIEU OF STRAW BALE BERMS SHALL BE STRONGLY ENCOURAGED. OTHER MEASURES MAY BE REQUIRED IF REASONABLY DETERMINED TO BE NECESSARY TO PROTECT A WATERCOURSE OR WETLAND.

WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHEN SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED.

PERMANENT EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 (FIFTEEN) CALENDAR DAYS AFTER FINAL GRADING OR THE FINAL EARTH CHANGE HAS BEEN COMPLETED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.

VEGETATED BUFFER STRIPS SHALL BE CREATED OR RETAINED ALONG THE EDGES OF ALL LAKES, PONDS, CREEKS, STREAMS, OTHER WATERCOURSES, OR WETLANDS. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL RECEIVE REGULAR MAINTENANCE TO ASSURE PROPER FUNCTIONING.

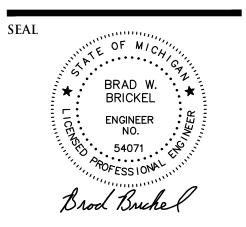
ALL GRADING PLANS AND SPECIFICATIONS, INCLUDING EXTENSIONS OF PREVIOUSLY APPROVED PLANS, SHALL INCLUDE PROVISIONS FOR EROSION AND SEDIMENT CONTROL IN ACCORDANCE WITH, BUT NOT LIMITED TO, THE STANDARDS CONTAINED IN THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", PUBLISHED BY THE OAKLAND SOIL CONSERVATION DISTRICT.





NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257 WWW.NOWAKFRAUS.COM

LAND PLANNERS



PROJECT 27700 Southfield Road Lathrup Village, MI 48076

CLIENT The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102 Email: sam@surnow.com

PROJECT LOCATION Part of the SW 1/4 of Section 13 T.1N., R.10E., City of Lathrup Village, Oakland County, Michigan

Soil Erosion Plan



ISSUED/REVISED 10-17-24 ISSUED FOR SITE PLAN REVIEW

DRAWN BY: J. Lawrey

DESIGNED BY: A. Eizember

APPROVED BY:

O129

SHEET NO.

SP08

ESTIMATED QUANTITIES SOIL EROSION DESCRIPTION QUANTITY SILT FABRIC FENCING 1,695 INLET FILTER

LEGAL DESCRIPTION -PER TITLE COMMITMENT

TAX ID NUMBER: 24-13-303-021

NOTES

ROUGE RIVER.

SOIL DATA

MARCH 2025

MARCH 2025

MAY 2025

MAY 2025

JULY 2025

JULY 2025

NOVEMBER 2025

NOVEMBER 2025

LAND SITUATED IN THE CITY OF LATHRUP VILLAGE, COUNTY OF OAKLAND, STATE OF MICHIGAN, DESCRIBED AS FOLLOWS:

LOT 1677 AND VACATED SOUTHFIELD SQUARE, FORMERLY KNOWN AS MONTEREY STREET LYING EASTERLY OF LOT 1677 AND WESTERLY OF LOTS 1665 TO 1689, EXCEPT THAT PART OF VACATED SOUTHFIELD SQUARE LYING SOUTH OF A LINE DRAWN

BETWEEN THE NORTHWEST CORNER OF OF LOT 1680 AND A POINT 150 FEET FROM THE SOUTHEAST CORNER OF LOT 1677, ALONG THE EASTERLY BOUNDARY OF SAID LOT 1677, LOUISE LATHRUP'S CALIFORNIA BUNGALOW SUBDIVISION NO. 3, AS RECORDED IN LIBER 32 OF PLATS, PAGE 26, OAKLAND COUNTY RECORDS.

ADDRESS: 27700 SOUTHFIELD ROAD, LATHRUP VILLAGE, MI 48076

REFER TO THE WRC SOIL EROSION AND SEDIMENTATION CONTROL DETAIL SHEET FOR ALL ADDITIONAL NOTES & DETAILS (TYP)

A DISTANCE OF $\pm 4,000$ FEET TO THE NEAREST BODY OF WATER:

THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND

A SOIL EROSION PERMIT IS REQUIRED FROM OAKLAND COUNTY WATER RESOURCES COMMISSIONER.

THIS SITE CONSISTS OF URBAN LAND-BLOUNT-LENAWEE COMPLEX, O TO 3 PERCENT SLOPES; UDORTHENTS AND UDIPSAMMENTS, NEARLY

LEVEL TO HILLY; BASED ON DATA PROVIDED BY THE UNITED STATES

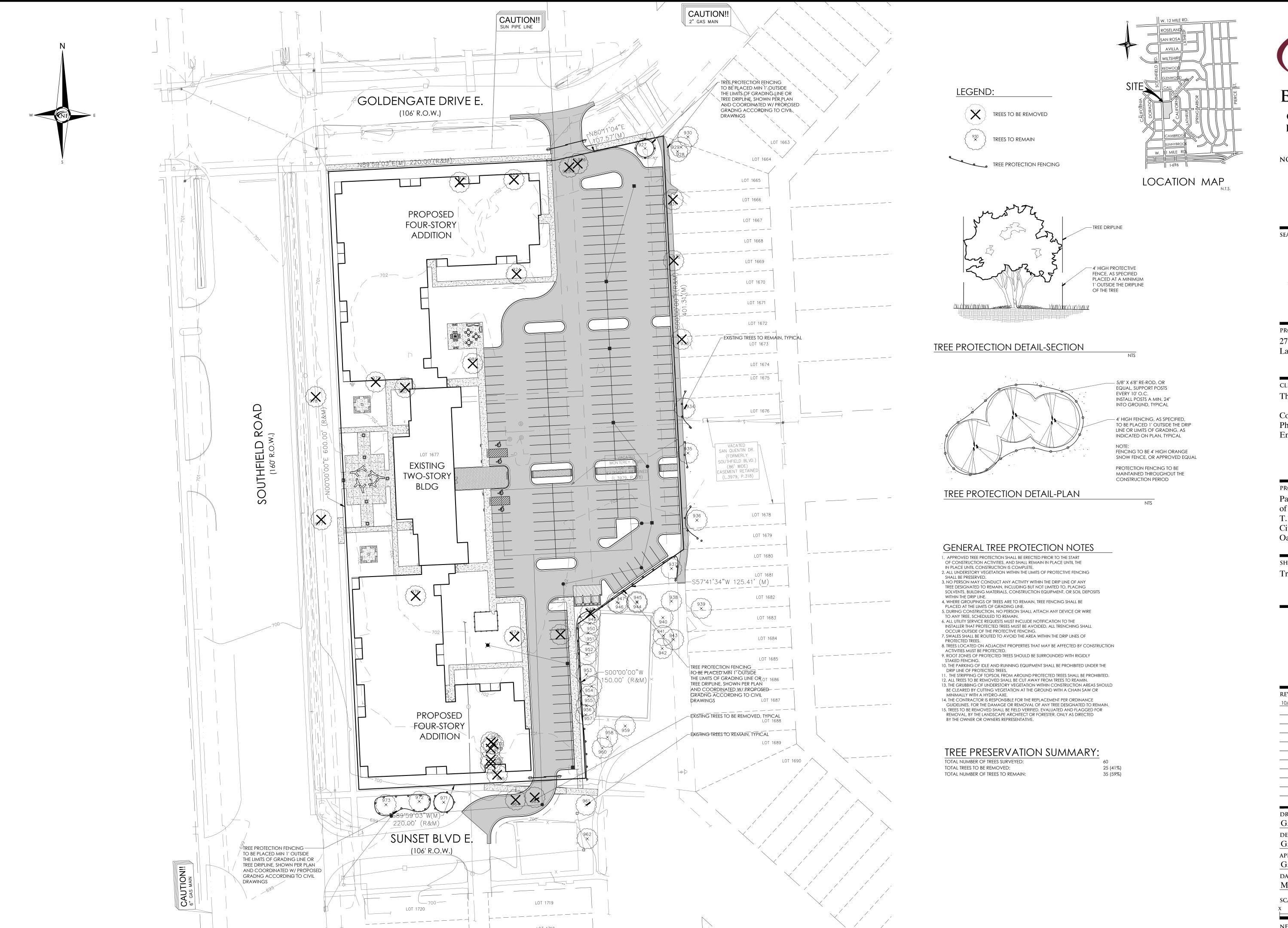
DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION

THE TOTAL AREA OF EARTH DISRUPTION IS 4.066 ACRES.

AFTER EVERY STORM EVENT BY CONTRACTOR.

T SACK OR EQUAL	5	EA.
LEGEND		
	INDICATES LIMITS OF SILT FABRIC FENCE	
	, INDICATES LIMITS OF DRAIN DISTRICT AREA	NAGE
	, INDICATES LIMITS OF SOIL DISRUPTION	
	INDICATES LOW POINT INLE FILTER OR PROPOSED DRAINAGE STRUCTURE	Т
	INDICATES SILT SACK OR EQUAL ON EXISTING. DRAINAGE STRUCTURE	
AREA A 0.00 ACRE C=0.95	INDICATES DRAINAGE DISTRICT AREA	

B. Brickel October 17, 2024



LOT 1721

IN ENGINEERS

CIVIL ENGINEERS Land Surveyors Land Planners

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

EAL



PROJECT

27700 Southfield Road Lathrup Village, MI 48076

CLIENT

The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102 Email: sam@surnow.com

PROJECT LOCATION

Part of the SW 1/4

of Section 13

T.1N., R.10E.,

City of Lathrup Village,

Oakland County, Michigan

SHEET

Tree Preservation Plan



REVISIONS			
10/17/2024 ISSUED FOR SITE F	PLAN	REV	IE۱
-			

DRAWN BY: G. Ostrowski

G. Ostrowski

DESIGNED BY:
G. Ostrowski

G. Ostrowski

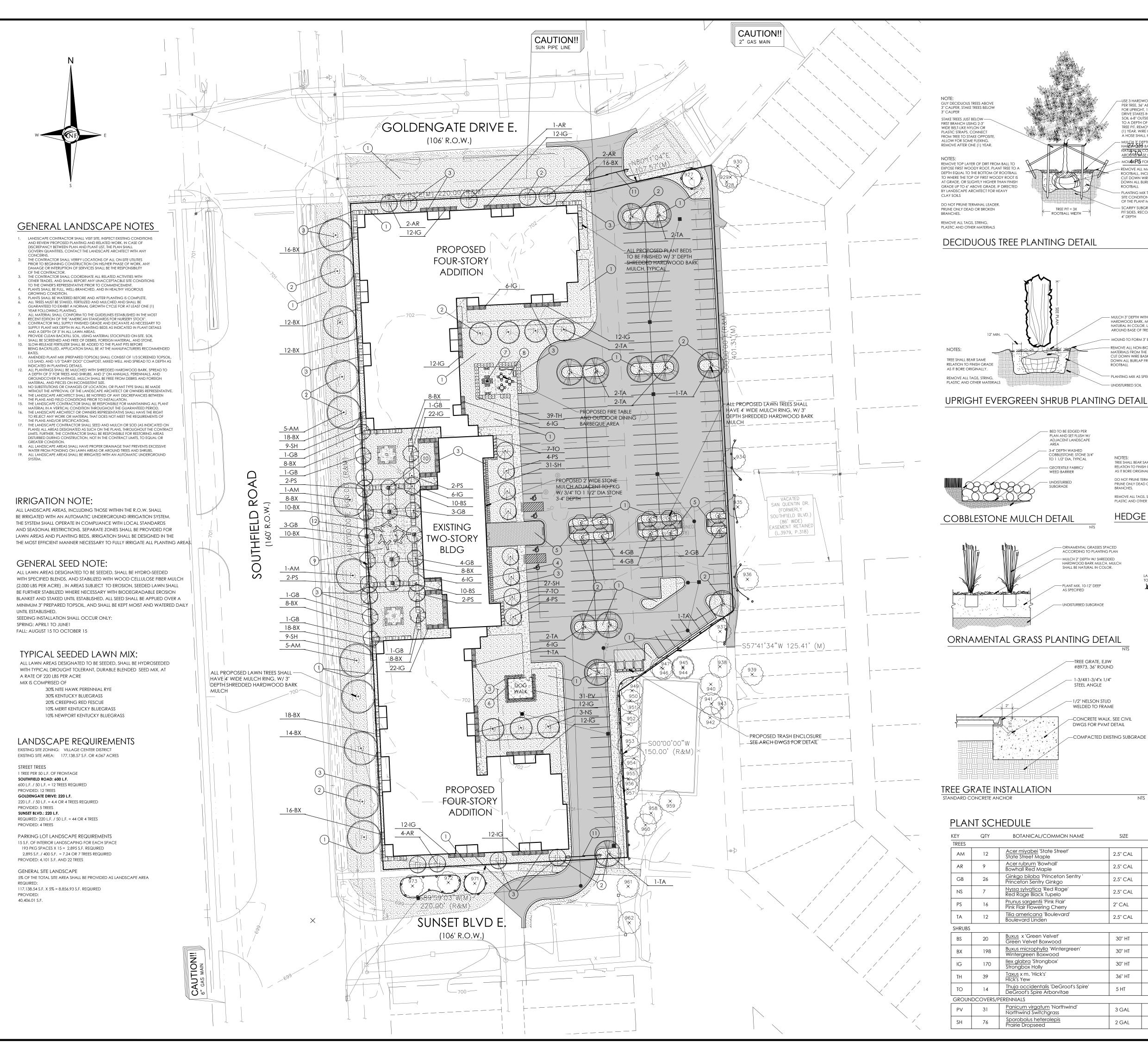
APPROVED BY:
G. Ostrowski

DATE:
May 22, 2024

SCALE: 1'' = 240X'

X 0

NFE JOB NO. SHEET NO. \bigcirc 1 1





KEY LEGEND

- 1) TYPICAL SEED LAWN AREAS, SOWN ON 3" TOPSOIL
- (2) 4' WIDE SPADE CUT EDGE W/ 3" SHREDDED BARK MULCH
- (3) 3" DEPTH DOUBLE SHREDDED HARDWOOD BARK MULCH
- (4) 3/4" 1 1/2" STONE MULCH, 3-4" DEPTH ON WEED BARRIER
- (5) PROPOSED DECORATIVE PAVING
- (6) PROPOSED 4' HT DECORATIVE METAL FENCE
- (7) PROPOSED NG FIRE TABLE, WITH SEATING
- (9) OUTDOOR COMMUNITY SCULPTURE PARK

(8) OUTDOOR DINING AREA WITH TABLES AND GRILLS

- (10) PROPOSED 3' SQUARE TREE GRATE (6 TOTAL)
- (11) PROPOSED SECURITY GATE
- (12) PROPOSED TWIG BENCH BY LANDSCAPE FORMS (7 TOTAL)

- MAINTAIN 2" CLEAR AREA FROM STEM

- MULCH 3" DEPTH W/ SHREDDED

HARDWOOD BARK MULCH. MULCH SHALL BE NATURAL IN COLOR.

EARTH SAUCER AROUND SHRUB

REMOVE ALL NON-BIODEGRADABLE

— 1/4" X 4" METAL EDGING TO BE SET 1/2" ABOVE FINISH GRADE

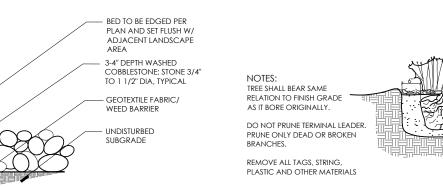
HARWOOD BARK MULCH

TRENCH TO BE BACKFILLED WITH

- 18" GALVANIZED METAL STAKE SPACED PER MANUFACTURERS SPECIFICATIONS

MATERIALS FROM THE ROOTBALL

PLANTING MIX, AS SPECIFIED



PLANT MIX, 10-12" DEEP

MULCH 3" DEPTH WITH SHREDDER HARDWOOD BARK, MULCH SHALL BE NATURAL IN COLOR, LEAVE 3" CLEAF

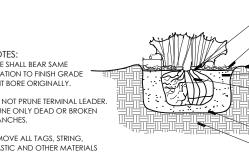
- MOUND TO FORM 3" EARTH SAUCEF REMOVE ALL NON-BIODEGRADABLE

MATERIALS FROM THE ROOTBALL. CUT DOWN WIRE BASKET AND FOLD DOWN ALL BURLAP FROM 1/3 OF

AROUND BASE OF TREE.

PLANTING MIX AS SPECIFIED





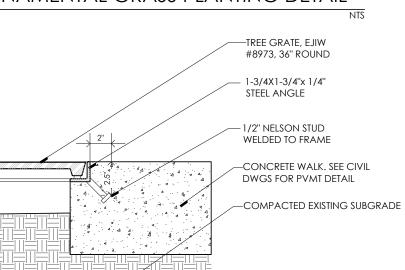
FOLD DOWN ALL BURLAP FROM TOP SCARIFY SUBGRADE

HEDGE PLANTING DETAIL

ACCORDING TO PLANTING PLAN - MULCH 2" DEPTH W/ SHREDDED HARDWOOD BARK MULCH. MULCH SHALL BE NATURAL IN COLOR. LAWN ADJACENT THE CONTRACT PROPERTY OF THE CONTRACT OF THE C

METAL EDGING DETAIL

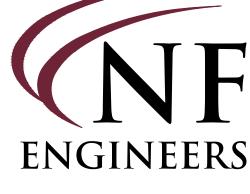
ORNAMENTAL GRASS PLANTING DETAIL



TREE GRATE INSTALLATION STANDARD CONCRETE ANCHOR

PLANT SCHEDULE

QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT			
TREES								
12	Acer miyabei 'State Street' State Street Maple	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
9	Acer rubrum 'Bowhall' Bowhall Red Maple	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
26	Ginkgo biloba 'Princeton Sentry ' Princeton Sentry Ginkgo	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
7	Nyssa sylvatica 'Red Rage' Red Rage Black Tupelo	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
16	Prunus sargentii 'Pink Flair' Pink Flair Flowering Cherry	2" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
12	Tilia americana 'Boulevard' Boulevard Linden	2.5" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS			
20	Buxus x 'Green Velvet' Green Velvet Boxwood	30" HT	30" OC	B&B	MAINTAIN AS HEDGE			
198	Buxus microphylla 'Wintergreen' Wintergreen Boxwood	30" HT	30" OC	B&B	MAINTAIN AS HEDGE			
170	<u>llex glabra</u> 'Strongbox' Strongbox Holly	30" HT	30" OC	B&B	MAINTAIN AS HEDGE			
39	Taxus x m. 'Hick's' HIck's Yew	36" HT	30 OC	B&B	WELL-ROOTED			
14	Thuja occidentalis 'DeGroot's Spire' DeGroot's Spire Arborvitae	5 HT	3' OC	B&B	WELL-ROOTED			
GROUNDCOVERS/PERENNIALS								
31	Panicum virgatum 'Northwind' Northwind Switchgrass	3 GAL	30" OC	CONT	WELL-ROOTED			
76	Sporobolus heterolepis Prairie Dropseed	2 GAL	24" OC	CONT	WELL-ROOTED			
	12 9 26 7 16 12 20 198 170 39 14 DCOVERS/F	12 Acer miyabei 'State Street' State Street Maple 9 Acer rubrum 'Bowhall' Bowhall Red Maple 26 Ginkgo biloba 'Princeton Sentry ' Princeton Sentry Ginkgo 7 Nyssa sylvatica 'Red Rage' Red Rage Black Tupelo 16 Prunus sargentii 'Pink Flair' Pink Flair Flowering Cherry 12 Tilia americana 'Boulevard' Boulevard Linden 20 Buxus x 'Green Velvet' Green Velvet Boxwood 198 Buxus microphylla 'Wintergreen' Wintergreen Boxwood 170 Ilex glabra 'Strongbox' Strongbox Holly 39 Taxus x m. 'Hick's' Hick's Yew 14 Thuja occidentalis 'DeGroot's Spire' DeGroot's Spire Arborvitae DCOVERS/PERENNIALS 31 Panicum virgatum 'Northwind' Northwind Switchgrass Sporobolus heterolepis	12 Acer miyabei 'State Street' State Street Maple 9 Acer rubrum 'Bowhall' Bowhall Red Maple 2.5" CAL 26 Ginkgo biloba 'Princeton Sentry ' Princeton Sentry Ginkgo 2.5" CAL 7 Nyssa sylvatica 'Red Rage' Red Rage Black Tupelo 2.5" CAL 16 Prunus sargentii 'Pink Flair' Pink Flair Flowering Cherry 2" CAL 12 Tilia americana 'Boulevard' Boulevard Linden 20 Buxus x 'Green Velvet' Green Velvet Boxwood 198 Buxus microphylla 'Wintergreen' Wintergreen Boxwood 170 Ilex glabra 'Strongbox' Strongbox Holly 39 Taxus x m. 'Hick's' HIck's Yew 30" HT 14 Thuja occidentalis 'DeGroot's Spire' DeGroot's Spire Arborvitae DCOVERS/PERENNIALS 31 Panicum virgatum 'Northwind' Northwind Switchgrass 3 CAL	12 Acer miyabei 'State Street' State Street Maple 9 Acer rubrum 'Bowhall' Bowhall Red Maple 2.5" CAL SEE PLAN 26 Ginkgo biloba 'Princeton Sentry ' Princeton Sentry Ginkgo 7 Nyssa sylvatica 'Red Rage' Red Rage Black Tupelo 2.5" CAL SEE PLAN 36 Red Rage Black Tupelo 36 Prunus sargentii 'Pink Flair' Pink Flair Flowering Cherry 37 CAL SEE PLAN 38 SEE PLAN 38 SEE PLAN 39 Buxus x 'Green Velvet' Green Velvet Boxwood 30" HT 30" OC 30" OC 30" OC 30" HT 30" OC 30" OC 30" HT 30" OC	12 Acer miyabei 'State Street' State Street Maple 9 Acer rubrum 'Bowhall' Bowhall' 2.5" CAL SEE PLAN B&B 26 Ginkgo biloba 'Princeton Sentry ' Princeton Sentry Ginkgo 7 Nyssa sylvatica 'Red Rage' 2.5" CAL SEE PLAN B&B 16 Prunus sargentii 'Pink Flair' Pink Flair Flowering Cherry 2" CAL SEE PLAN B&B 16 Prunus sargentii 'Pink Flair' 2" CAL SEE PLAN B&B 17 Tillia americana 'Boulevard' 2.5" CAL SEE PLAN B&B 18 Buxus x 'Green Velvet' 2.5" CAL SEE PLAN B&B 198 Buxus microphylla 'Wintergreen' 30" HT 30" OC B&B 198 Buxus microphylla 'Wintergreen' 30" HT 30" OC B&B 170 Ilex glabra 'Strongbox' 30" HT 30" OC B&B 170 Ilex glab			



CIVIL ENGINEERS LAND SURVEYORS LAND PLANNERS

NOWAK & FRAUS ENGINEERS 46777 WOODWARD AVE. PONTIAC, MI 48342-5032 TEL. (248) 332-7931 FAX. (248) 332-8257

SEAL



PROJECT

27700 Southfield Road Lathrup Village, MI 48076

CLIENT The Surnow Company

Contact: Sam Surnow Phone: 248.865.3000 x 102

Email: sam@surnow.com

PROJECT LOCATION Part of the SW 1/4 of Section 13 T.1N., R.10E., City of Lathrup Village,

Oakland County, Michigan

SHEET

Landscape Plan

REVISIONS



10/17/2024 ISSUED FOR SITE PLAN REVIEW	W
	_
	_
	_
	_
	_
DRAWN BY:	
C O-41-:	

G. Ostrowski **DESIGNED BY:** G. Ostrowski APPROVED BY: G. Ostrowski DATE: May 22, 2024 SCALE: 1'' = 40'

NFE JOB NO. SHEET NO. **O129**

PROPOSED BUILDING ADDITION FOR:

27700 SOUTHFIELD ROAD, LATHRUP VILLAGE

CONDITIONS OF WORK

CONSTRUCTION COORDINATION:

1. ALL CONTRACTORS SHALL REVIEW ALL DRAWINGS & ARE RESPONSIBLE FOR A COMPLETE REVIEW & SITE VISIT. ITEMS AFFECTING ALL TRADES ARE PLACED THROUGHOUT SET & NO "EXTRAS" FOR MISSED ITEMS IN OTHER SECTIONS WILL BE PERMITTED. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT OF ANY AMBIGUITY, INCONSISTENCY OR ERRORS WHICH THEY DISCOVER UPON EXAMINATION OF DOCUMENTS, THE SITE OR LOCAL CONDITIONS

2. ANY CONTRACTOR OR SUBCONTRACTOR BY SUBMITTING A BID WARRANT'S THAT HE HAS VISITED THE SITE AND IS AWARE OF ANY AND ALL SITE CONDITIONS AFFECTING HIS BID.

3. THE CONTRACTOR BY COMMENCING WORK ACCEPTS THE CONDITIONS OF THE SITE & THE COMPLETENESS OF CONTRACT DOCUMENTS.

4. FIELD VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ARCHITECT. DO NOT SCALE DRAWINGS USE FIGURED DIMENSIONS ONLY.

5. ANY MATERIAL OR LABOR NEITHER SHOWN ON THE DRAWINGS NOR SPECIFIED, BUT WHICH IS OBVIOUSLY NECESSARY TO COMPLETE THE WORK IN A WORKMANLIKE MANNER SHALL BE FURNISHED WITHOUT COST TO THE OWNER.

6. ALL MATERIALS FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR SHALL BE FREE FROM DEFECTS. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF (1) YEAR FROM DATE OF ACCEPTANCE OF WORK. DURING THIS PERIOD THE GENERAL CONTRACTOR SHALL CORRECT ANY PROBLEMS DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP AT NO COST TO THE OWNER. ANY PROBLEM THAT OCCURS DURING CONSTRUCTION SHALL IMMEDIATELY BE CORRECTED TO THE SATISFACTION OF THE OWNER.

7. NO SUBSTITUTIONS OF SPECIFIED MATERIAL OR EQUIPMENT WILL BE ACCEPTED UNLESS WRITTEN REQUEST FOR APPROVAL HAS BEEN RECEIVED BY THE ARCHITECT AND CONTRACTOR HAS RECEIVED WRITTEN APPROVAL FROM ARCHITECT.

8. DURING AND AT THE COMPLETION OF THE CONTRACTOR'S DAILY WORK, CONTRACTOR IS RESPONSIBLE FOR THE CLEANING UP AND REMOVAL OF ALL RUBBISH AND DEBRIS BEFORE LEAVING THE PROJECT JOB SITE.

PERMITS & SAFETY:

1. GENERAL CONTRACTOR SHALL APPLY & SUBMIT FOR BUILDING PERMIT.

2. GENERAL CONTRACTOR SHALL OBTAIN "ALL RISK" INSURANCE AND ALL CUSTOMARY STATUTORY INSURANCE FOR COMPREHENSIVE GENERAL LIABILITY, ETC. AS REQUIRED BY OWNER/LANDLORD.

3. GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION OF WORK, MATERIALS, FIXTURES, ETC. IN LEASED SPACE FROM LOSS OR DAMAGE FROM FIRE, THEFT OR

4. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA). THE FOLLOWING ARE STRICTLY PROHIBITED WORK PRACTICES.

A. ANY COMBUSTIBLE MATERIALS ABOVE FINISHED CEILING OR IN ANY NON-SPRINKLED LOCATIONS.

B. IMPOSING ANY STRUCTURAL LOAD, TEMPORARY OR PERMANENT ON ANY PART OF THE LANDLORD'S WORK OR STRUCTURE WITHOUT PRIOR WRITTEN APPROVAL.

WITHOUT PROPER APPROVAL'S PROPER APPROVALS FROM LANDLORD. BEFORE STARTING ANY UNDERSLAB WORK CONTRACTORS MUST CHECK WITH THE LANDLORD OR SUPERINTENDENT OF THE LANDLORD'S GENERAL CONTRACTOR TO DETERMINE IF ANY COMMON UTILITY OR OTHER TENANT UTILITY LINES EXIST WITHIN THE SPACE.

C. CUTTING ANY HOLES IN LANDLORD'S EXISTING FLOOR SLABS, WALLS OR ROOF

CODE COMPLIANCE:

1. WORK INDICATED IS TO BE EXECUTED IN ACCORDANCE WITH THE LATEST EDITIONS OF ALL APPLICABLE CODES.

2. FIRE EXTINGUISHERS SHALL BE PROVIDED BY G.C. AND INSTALLED PER THE FIRE MARSHALL'S INSTRUCTIONS.

3. ALL WALL FINISHES TO MEET CLASS III FLAME SPREAD RATINGS IN ACCORDANCE WITH MBC-2015 CHAPTER 8.

4. INTERIOR FINISHES IN EXIT ACCESS CORRIDORS, OTHER EXIT WAYS, ROOMS, AND ENCLOSED SPACES IN USE GROUPS "B" AND "S" IN SPRINKLED BUILDINGS ARE REQUIRED TO HAVE AT LEAST A CLASS C: FLAME SPREAD 76-200; SMOKE DEVELOPED 0-450; RATING AS LISTED IN THE 2015 MICHIGAN BUILDING CODE.

5. SAFETY GLAZING MUST HAVE PERMANENT IDENTIFICATION IN ACCORDANCE WITH THE 2015 MICHIGAN BUILDING CODE.

6. ALL REQUIREMENTS OF THE MICHIGAN BARRIER FREE ACT & THE AMERICAN'S WITH DISABILITIES ACT SHALL BE MAINTAINED TO COMPLY WITH ICC/A117.1-2009.

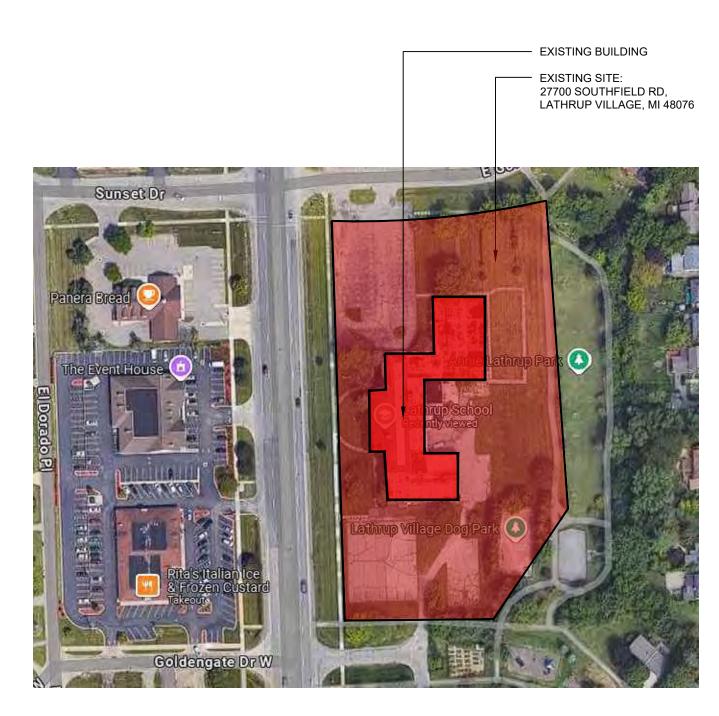
7. ALL OFFICE FURNITURE & EQUIPMENT TO BE PROVIDED BY TENANT- SHOWN FOR LAYOUT PURPOSES ONLY. TO COMPLY WITH ADAICC/A117.1-2009 (TYP.) REQUIREMENTS, A MINIMUM OF 5%, BUT NOT LESS THAN (1) OF THE LUNCHROOM TABLES AND EMPLOYEE WORKSTATIONS (CUBICLES) SHALL BE ACCESSIBLE. ACCESSIBLE TABLE AND WORKSTATION TOPS SHALL BE 28" MIN. TO 34" MAX. A.F.F. KNEE AND TOE CLEARANCES AS FOLLOWS SHALL ALSO APPLY- TOE: 4" MIN. HIGH, 17" MIN. TO 25" MAX. DEPTH, AND 30" MIN. WIDE. KNEE: 27" MIN. HIGH, 11" DEEP @ 9" HIGH TO 8" DEEP @ 27" HIGH, AND 30" MIN. WIDE.

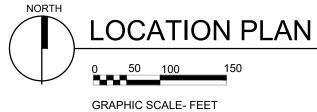
8. ALL ENTRANCE AND EXIT DOORS SHALL HAVE BARRIER FREE ACCESSIBILITY TO COMPLY WITH ICC/A117.1-2009.

9. TO COMPLY WITH ADA - ICC/A117.1-2009 (TYP.) REQUIREMENTS, CHANGES IN LEVEL GREATER THAN 1/2" SHALL BE RAMPED AND CHANGES IN LEVEL BETWEEN 1/4" AND 1/2" SHALL BE BEVELED A MAXIMUM OF 1:2.

10. ALL LUNCHROOM APPLIANCES TO BE PROVIDED BY TENANT. TO COMPLY WITH ADA-ICC/A117.1-2009 (TYP.) REQUIREMENTS, DISHWASHERS MUST FIT UNDER A 34" HIGH (32 1/4" CLEAR UNDER) COUNTERTOP, THE REFRIGERATOR MUST BE A SIDE-BY-SIDE OR BOTTOM FREEZER UNIT, AND ALL MICROWAVE CONTROLS TO BE NO HIGHER THAN 46" A.F.F. TO MEET OBSTRUCTED HIGH SIDE REACH REQUIREMENTS.

11. SIGNAGE INDICATING ACCESSIBILITY PROVISIONS SHALL BE PROVIDED AT EACH DOOR TO AN EXIT DISCHARGE. A TACTILE SIGN STATING EXIT AND COMPLYING WITH ICC/ANSI A117.1-2009 SHALL BE PLACED ADJACENT TO THE DOOR. PLEASE REFER TO SHEET A. 601 FOR ADDITIONAL INFORMATION AND LOCATION.





PROJECT ADDRESS

27700 Southfield Road Lathrup Village, Michigan 48076

Zoned: VC Village Center

APPLICANT INFORMATION

Akiva Investments LLC 320 Martin St, Suite 100 Birmingham, MI 48009 e. Sam@Surnow.com p. 248.877.4000

SHEET INDEX

T.101	TITLE SHEET
A.101 A.102 A.103	FIRST AND SECOND FLOOR PLANS THIRD AND FOURTH FLOOR PLANS ENLARGED COMMON AREA FLOOR PLANS
A.201 A.202 A.203	EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS EXTERIOR ELEVATIONS
A.301 A.302 A.303 A.304 A.305	EXTERIOR RENDERINGS EXTERIOR RENDERINGS EXTERIOR RENDERINGS INTERIOR RENDERINGS INTERIOR RENDERINGS

SITE PHOTOMETRIC STUDY

BIDDISON ARCHITECTURE

320 MARTIN ST. LL 10 BIRMINGHAM MI 48009 248.554.9500

Consultants

Project data

GOVERNING CODES:

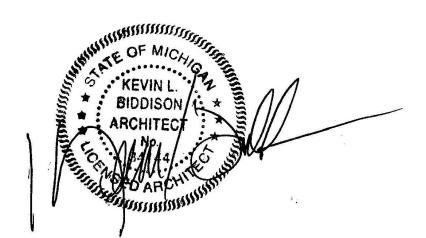
2015 MICHIGAN BUILDING CODE 2021 MICHIGAN PLUMBING CODE 2021 MICHIGAN MECHANICAL CODE 2015 MICHIGAN REHABILITATION CODE 2015 INTERNATIONAL FUEL GAS CODE MICHIGAN ELECTRICAL CODE, 2017 N.E.C. W/ PART 8 STATE AMENDMENTS ICC/ANSI A117.1-2015 AND MICHIGAN BARRIER FREE DESIGN LAW OF PUBLIC ACT 1 OF 1966 AS AMENDED. MICHIGAN UNIFORM ENERGY CODE RULES PART 10 WITH ANSI/ASHRAE/IESNA STANDARD 90.1-2015 2015 INTERNATIONAL FIRE CODE NFPA 13 - 2010 NFPA 72 - 2010

BUILDING USE GROUP(S): RESIDENTIAL

Issued for

SITE PLAN REVIEW

10.18.24

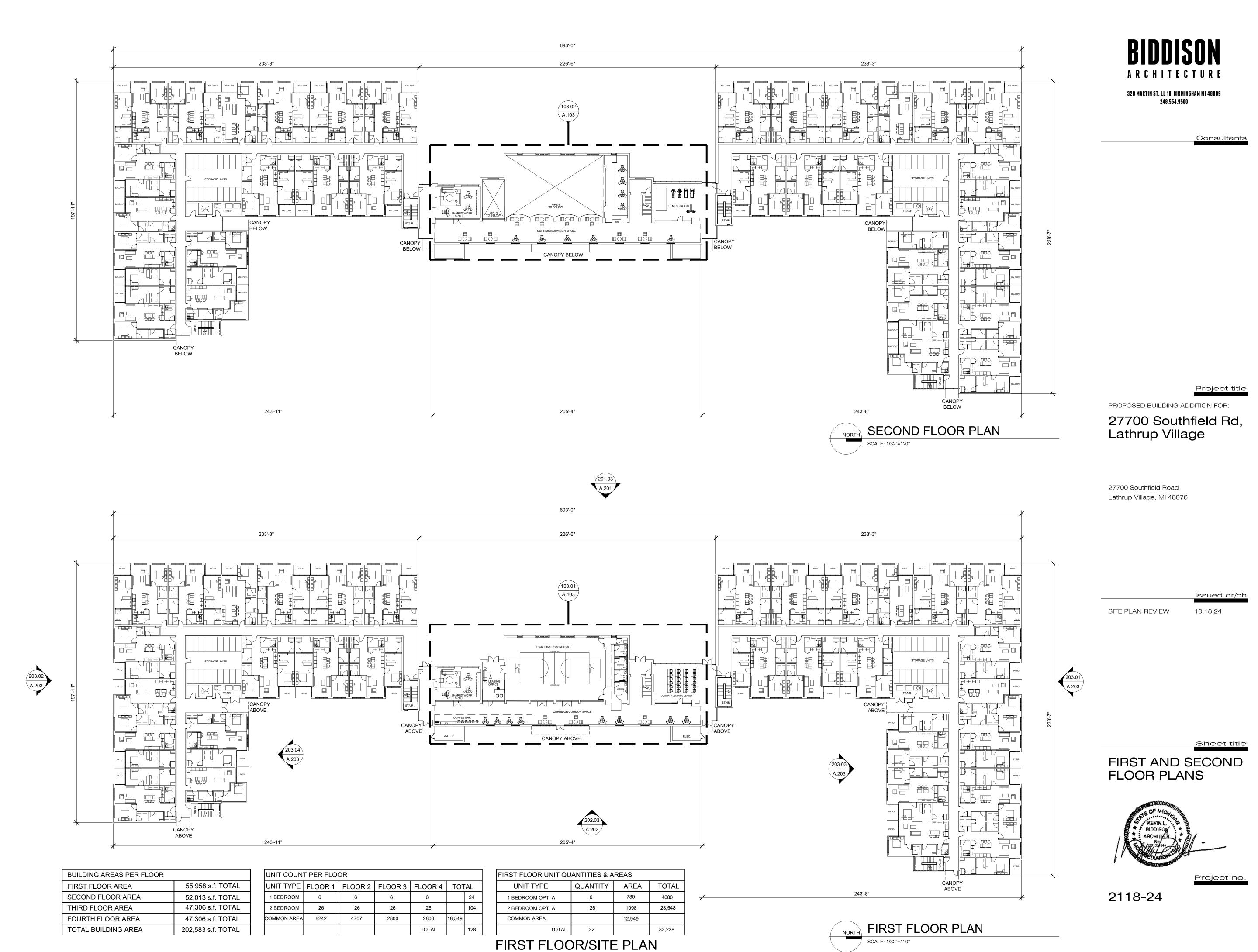


Project no.

2118-24

Sheet no.

T.101

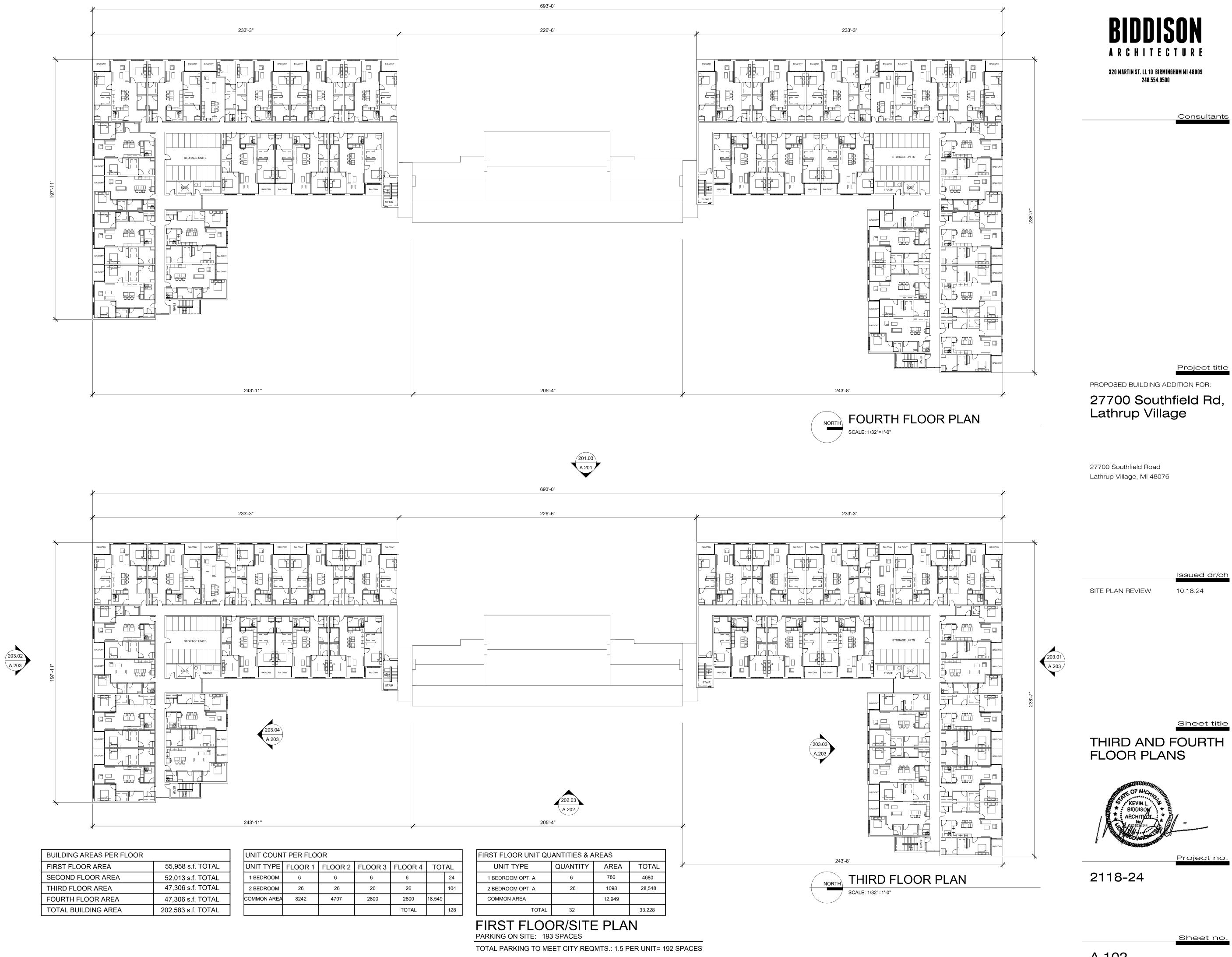


PARKING ON SITE: 193 SPACES

TOTAL PARKING TO MEET CITY REQMTS.: 1.5 PER UNIT= 192 SPACES

A.101

Sheet no.



ARCHITECTURE

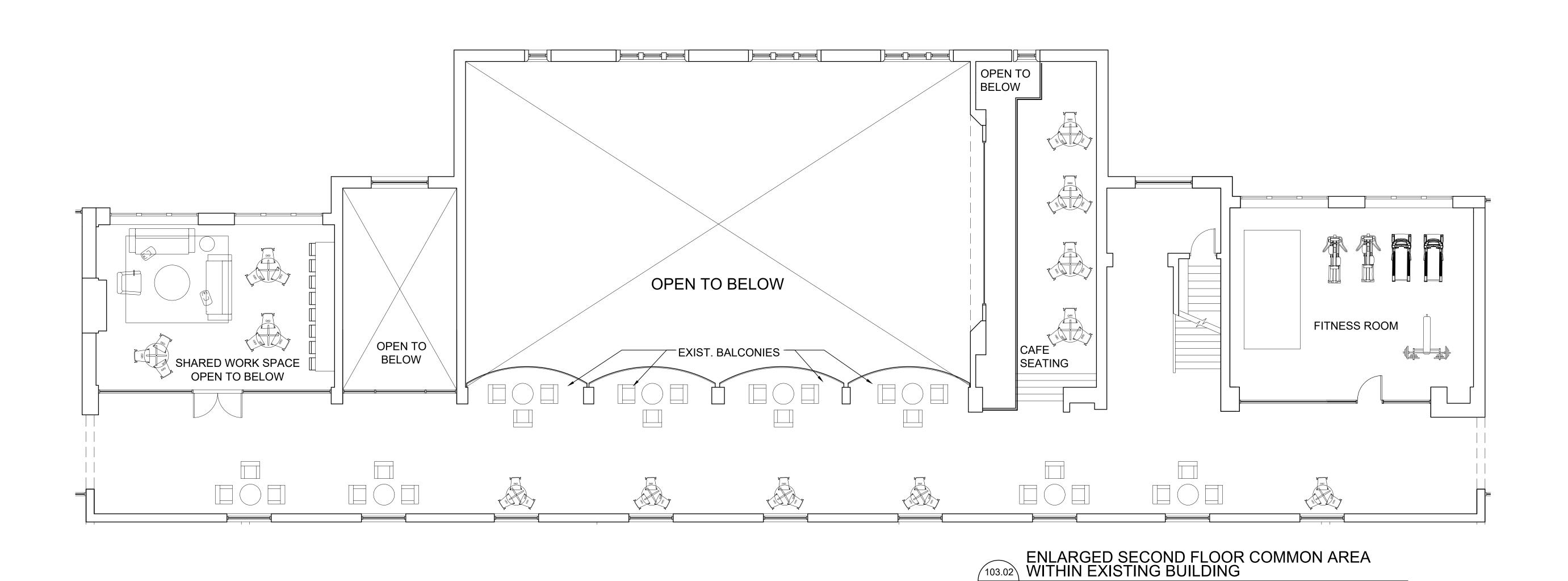
Consultants

Project title

Sheet title



Sheet no.



A.103 | SCALE: 1/8"=1'-0"



Consultants

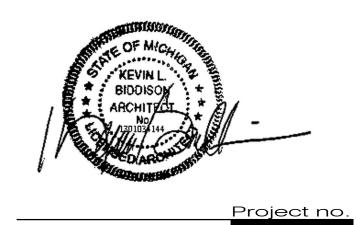
Project title

PROPOSED BUILDING ADDITION FOR: 27700 Southfield Rd, Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076

SITE PLAN REVIEW 10.18.24

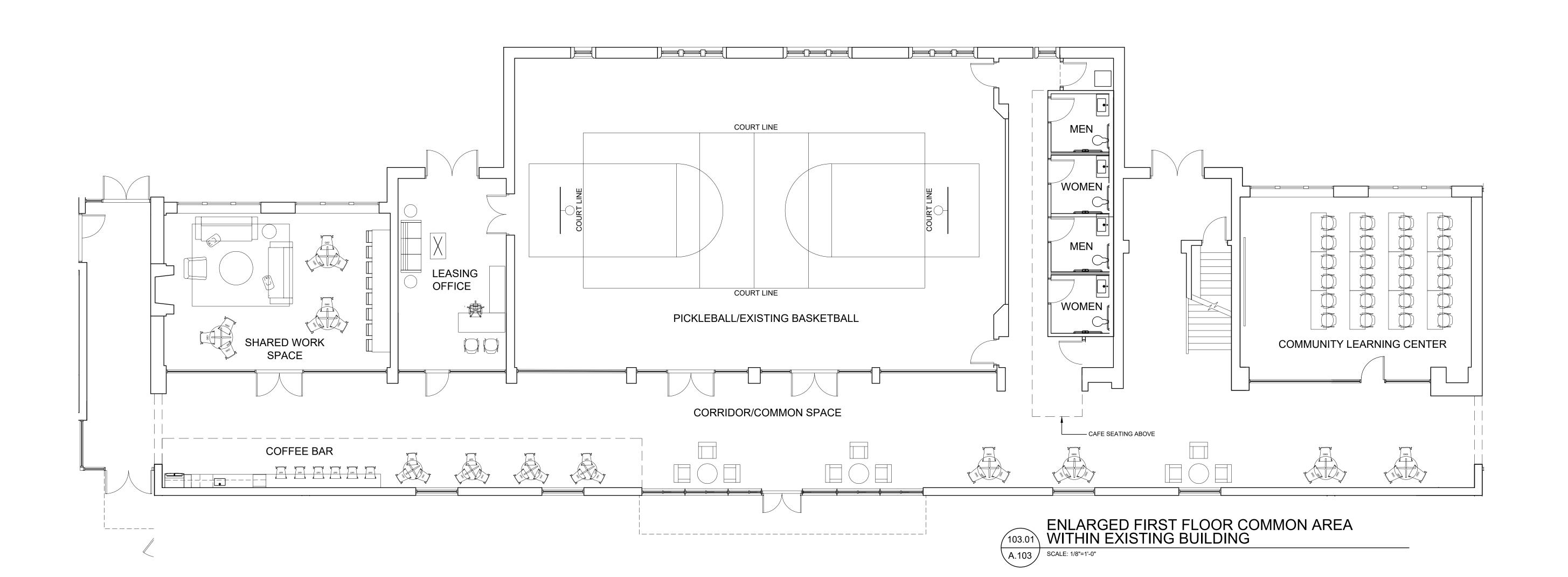
COMMON AREA FLOOR PLANS

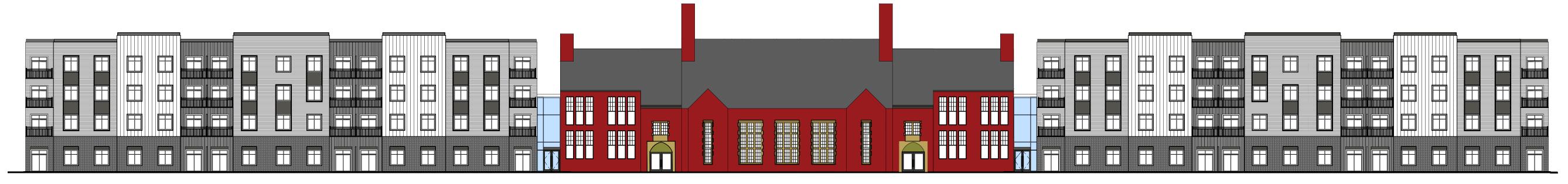


2118-24

Sheet no.

Sheet title







Consultants

WEST ELEVATION NOT TO SCALE

\ A.201 *)*

SCALE: 3/32"=1'-0"



Project title

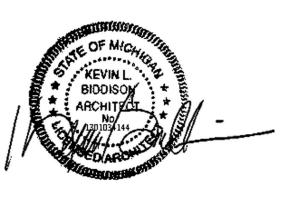
PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd, Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076

Issued dr/ch SITE PLAN REVIEW 10.18.24

EXTERIOR ELEVATIONS

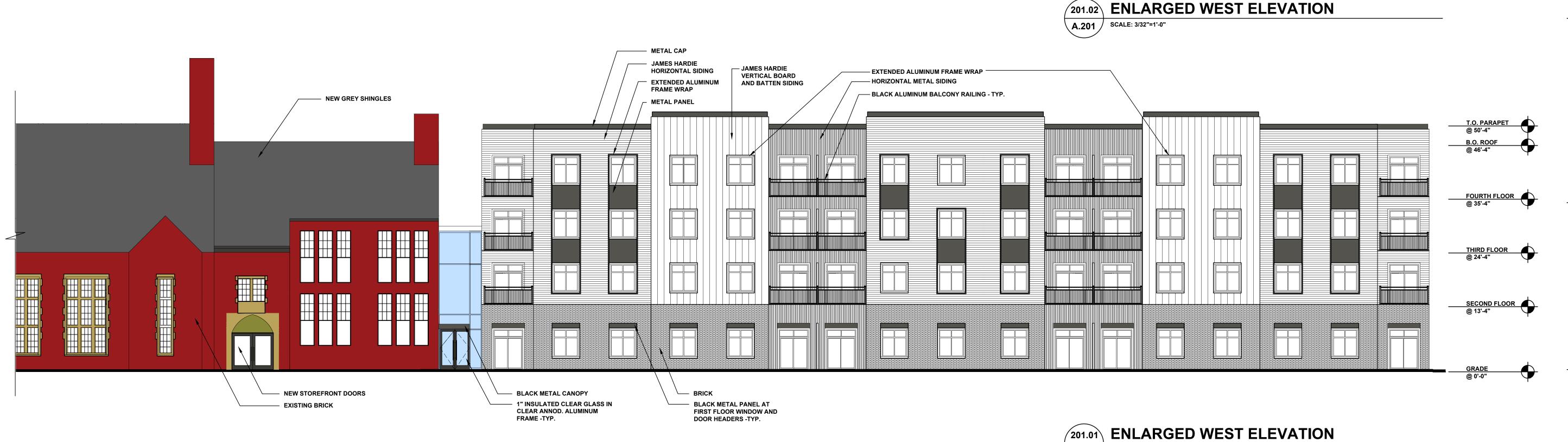


2118-24

Sheet no.

Sheet title

Project no.



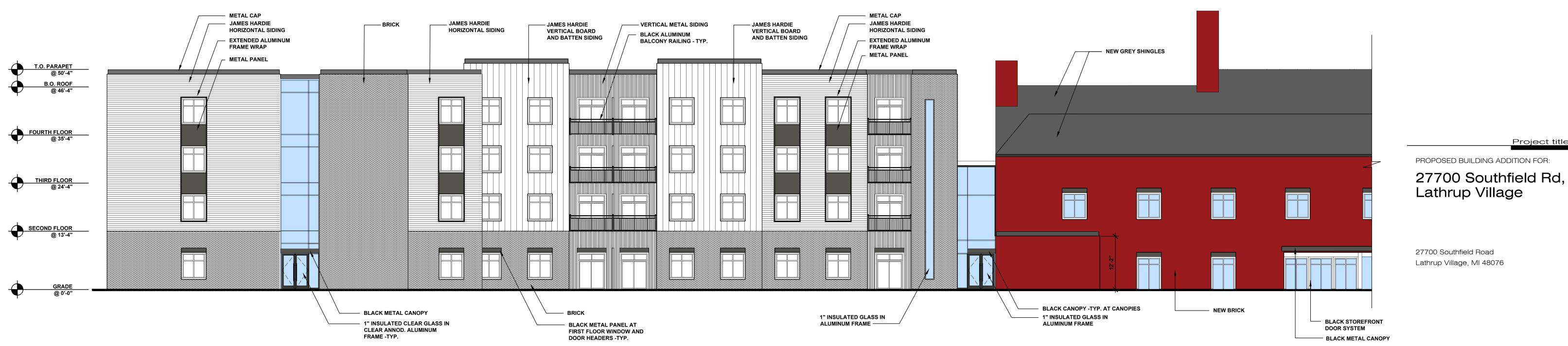




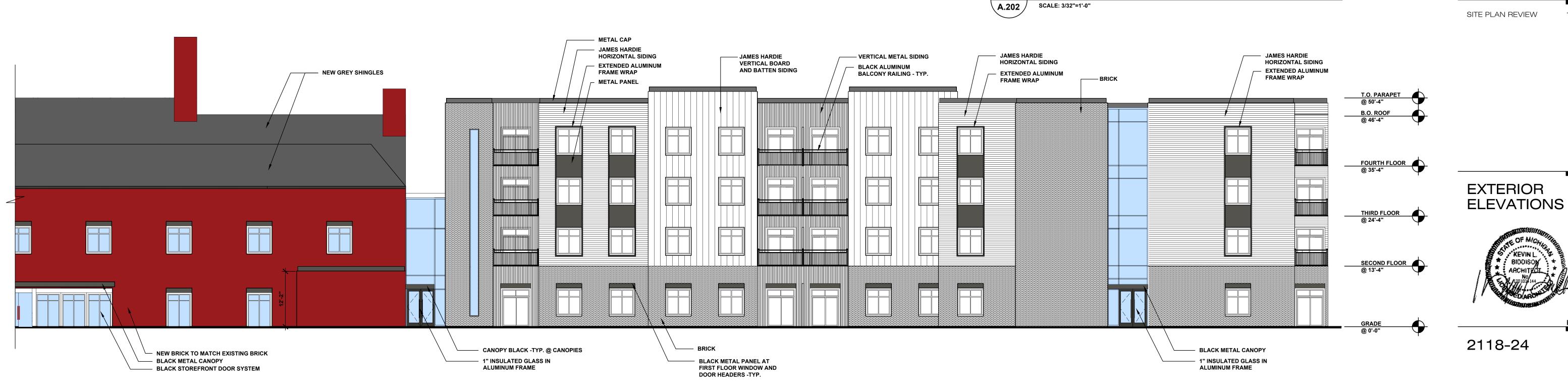
Consultants

Project title

EAST ELEVATION NOT TO SCALE **A.202**



ENLARGED EAST ELEVATION Issued dr/ch SCALE: 3/32"=1'-0" SITE PLAN REVIEW 10.18.24

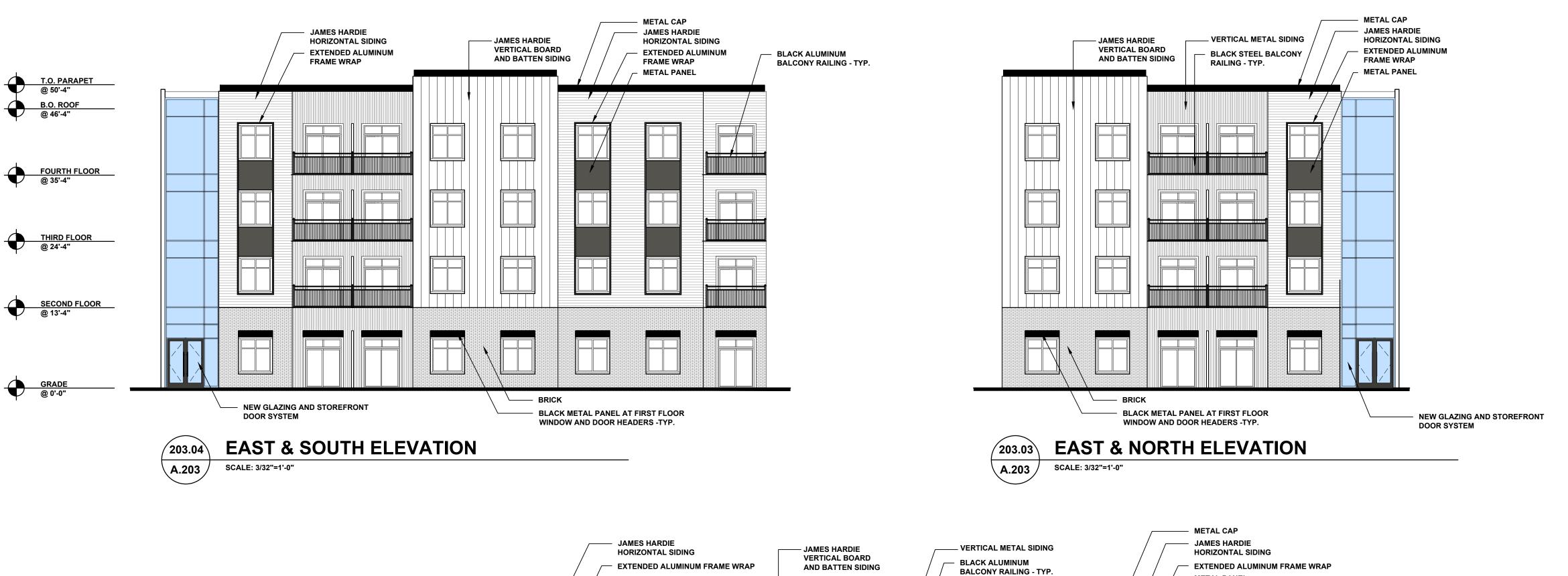


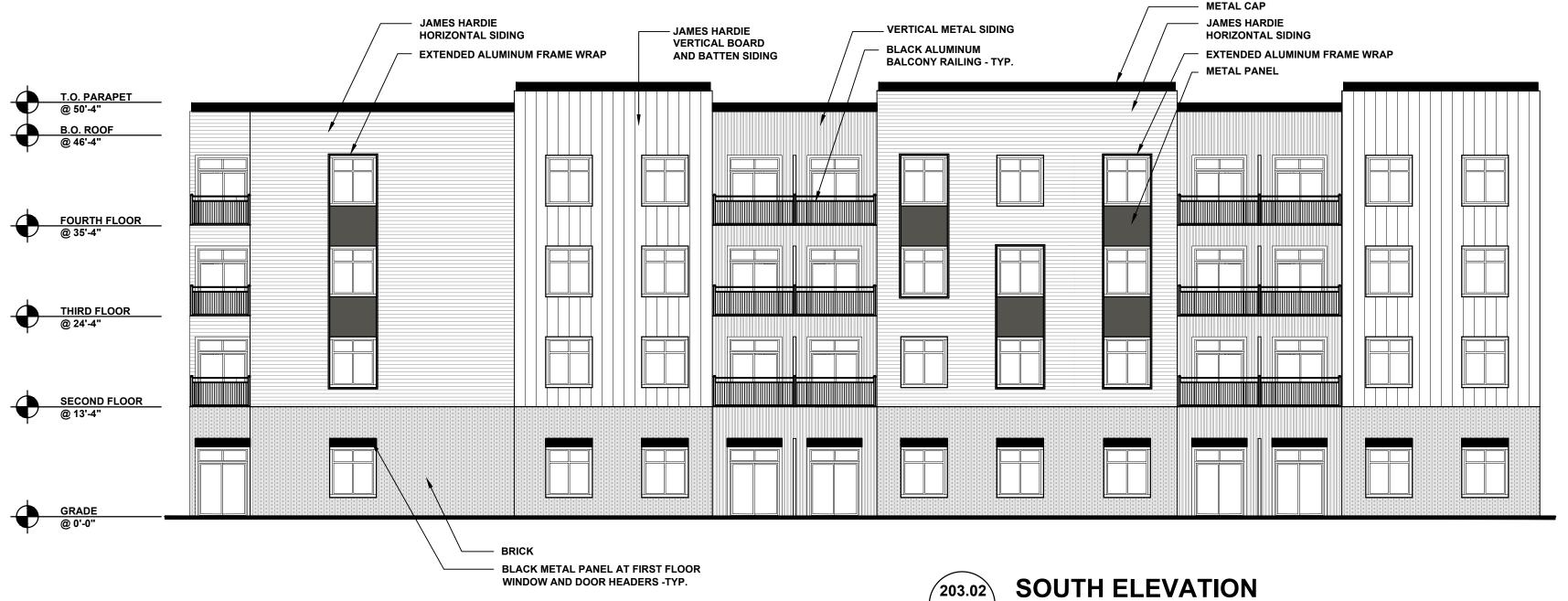
ENLARGED EAST ELEVATION \ A.202 */* SCALE: 3/32"=1'-0"

Sheet no.

Project no.

Sheet title



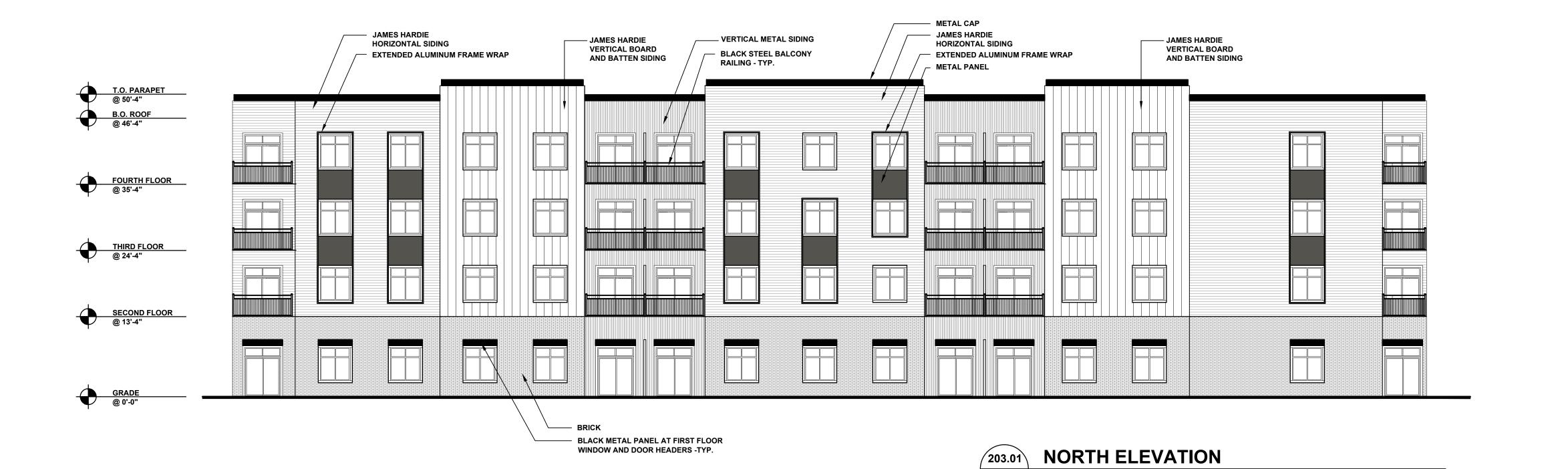


SCALE: 3/32"=1'-0"

SCALE: 3/32"=1'-0"

A.203

A.203



ARCHITECTURE 320 MARTIN ST. LL 10 BIRMINGHAM MI 48009 248.554.9500

Consultants

Project title

PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd, Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076

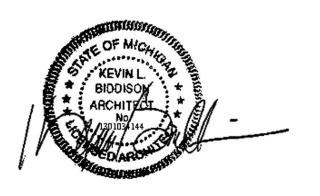
SITE PLAN REVIEW

Issued dr/ch

Sheet title

10.18.24

EXTERIOR ELEVATIONS



2118-24

Sheet no.

Project no.









Project title

PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd,
Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076





SITE PLAN REVIEW 10.18.24

Sheet title

EXTERIOR RENDERINGS



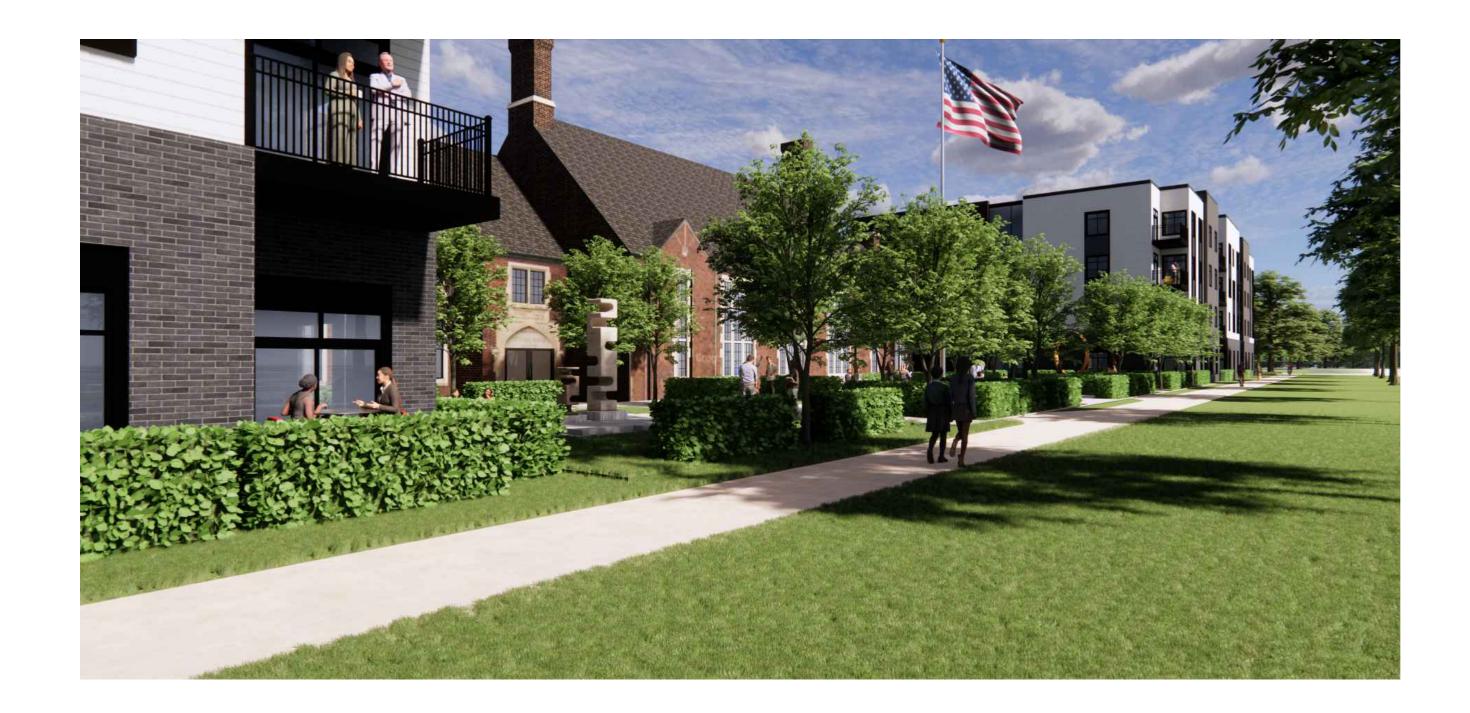
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2118-24

Sheet no



Consultant





Project title

PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd,
Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076

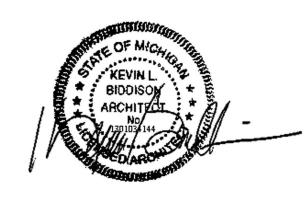




SITE PLAN REVIEW 10.18.24

Sheet title

EXTERIOR RENDERINGS



2118-24

Sheet no









PROPOSED BUILDING ADDITION FOR: 27700 Southfield Rd, Lathrup Village

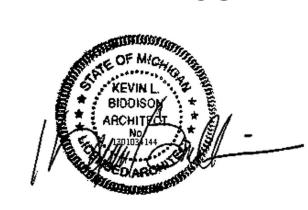
27700 Southfield Road Lathrup Village, MI 48076





SITE PLAN REVIEW 10.18.24

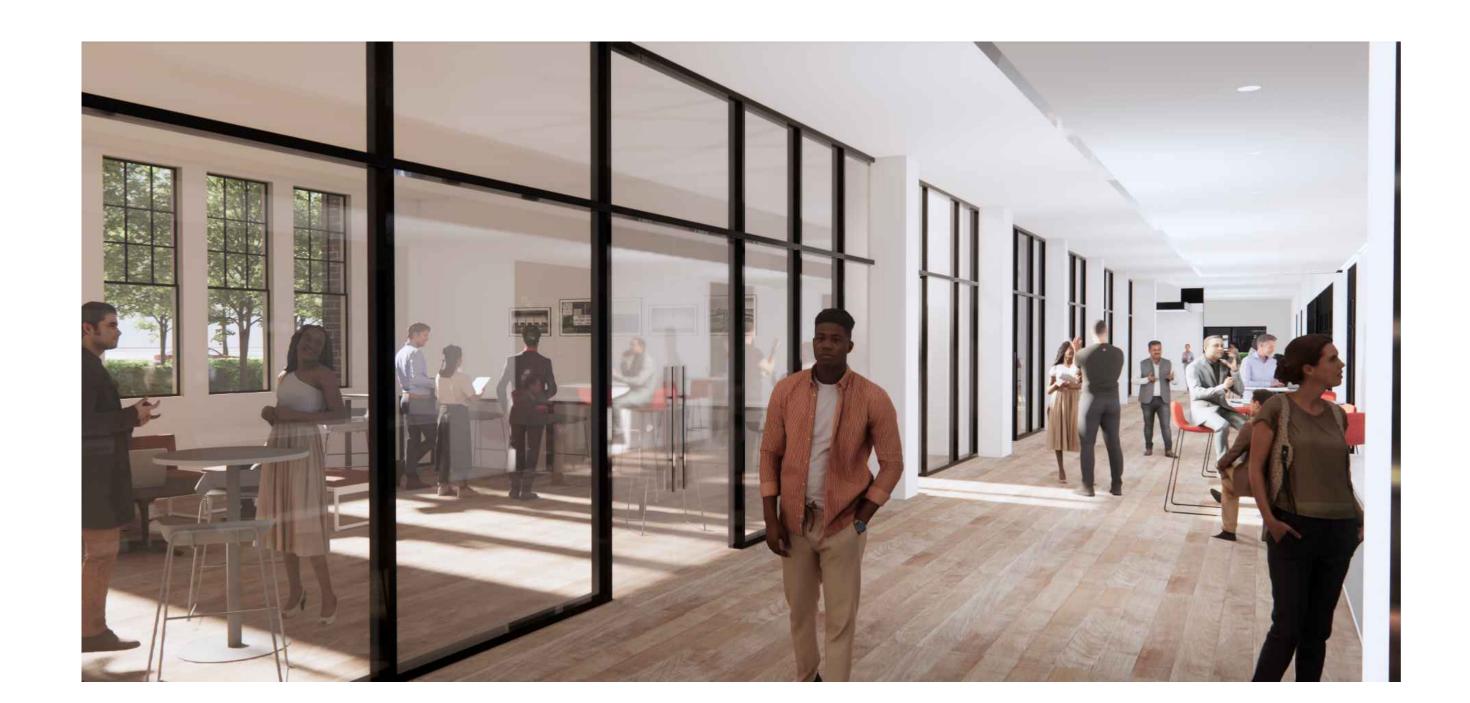
EXTERIOR RENDERINGS

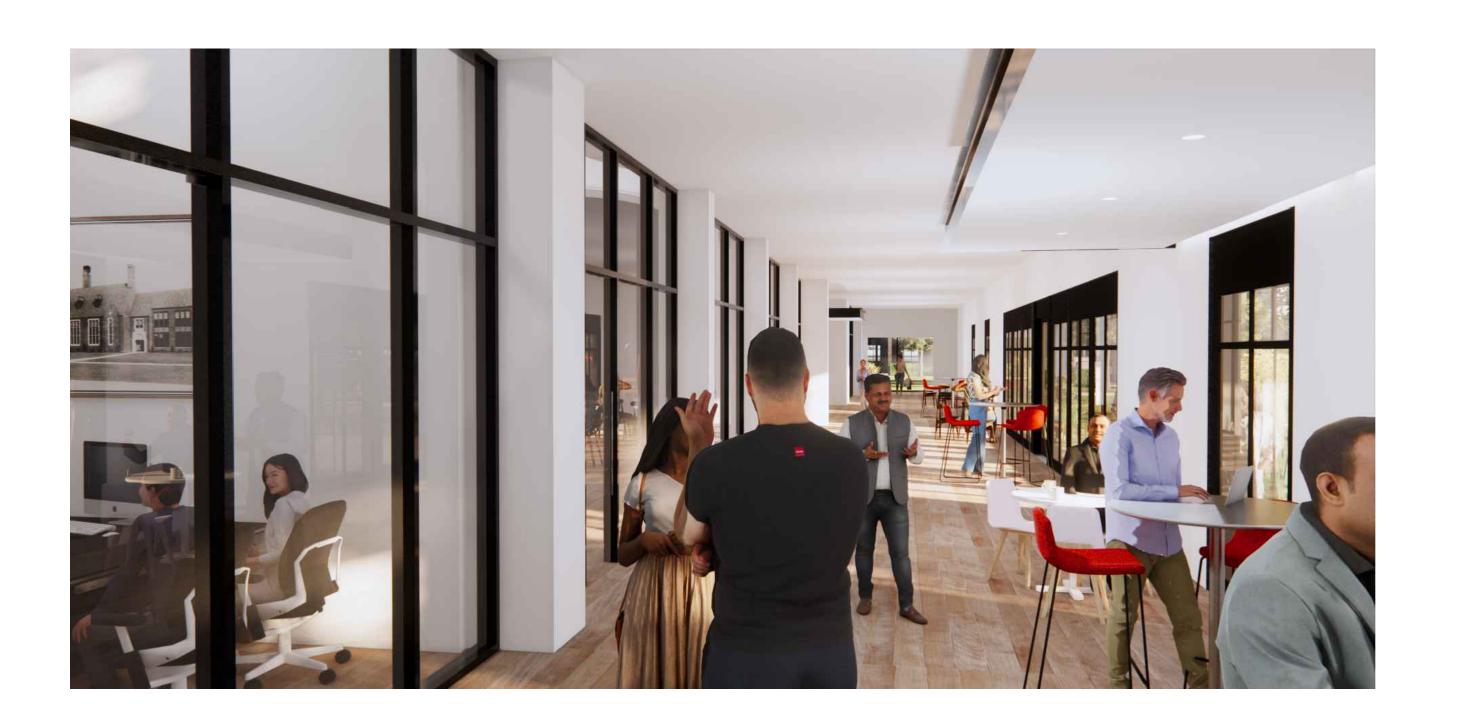


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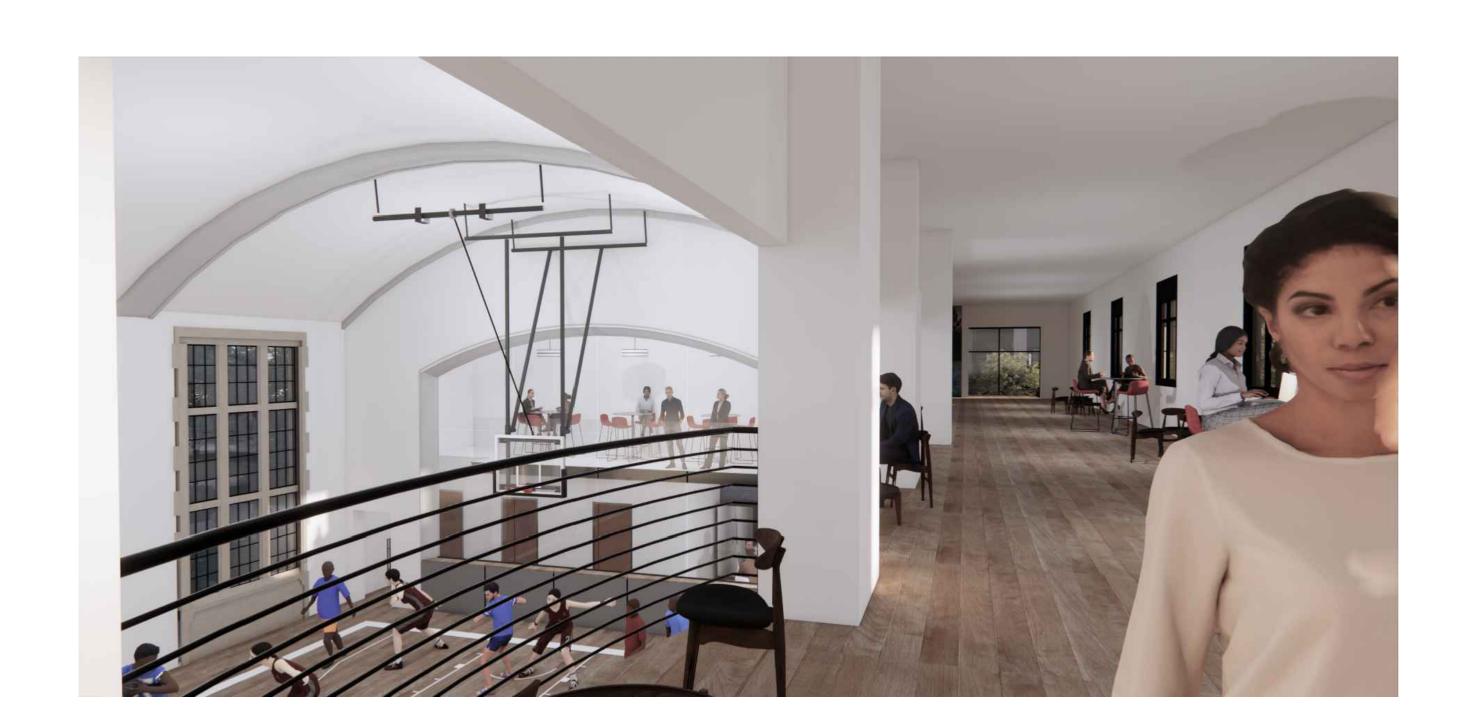


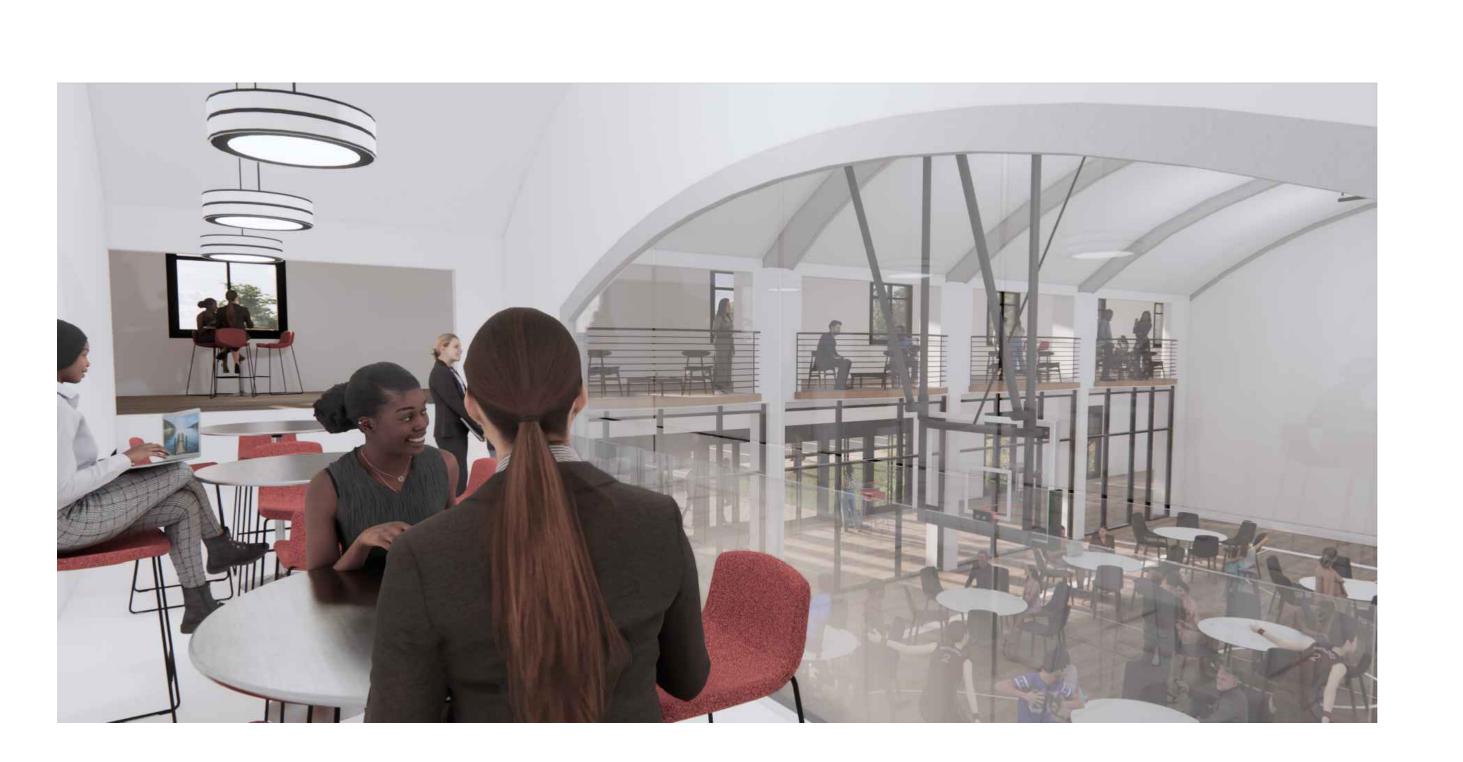
Project title

PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd,
Lathrup Village

27700 Southfield Road Lathrup Village, MI 48076





SITE PLAN REVIEW 10.18.24

Sheet title

INTERIOR RENDERINGS



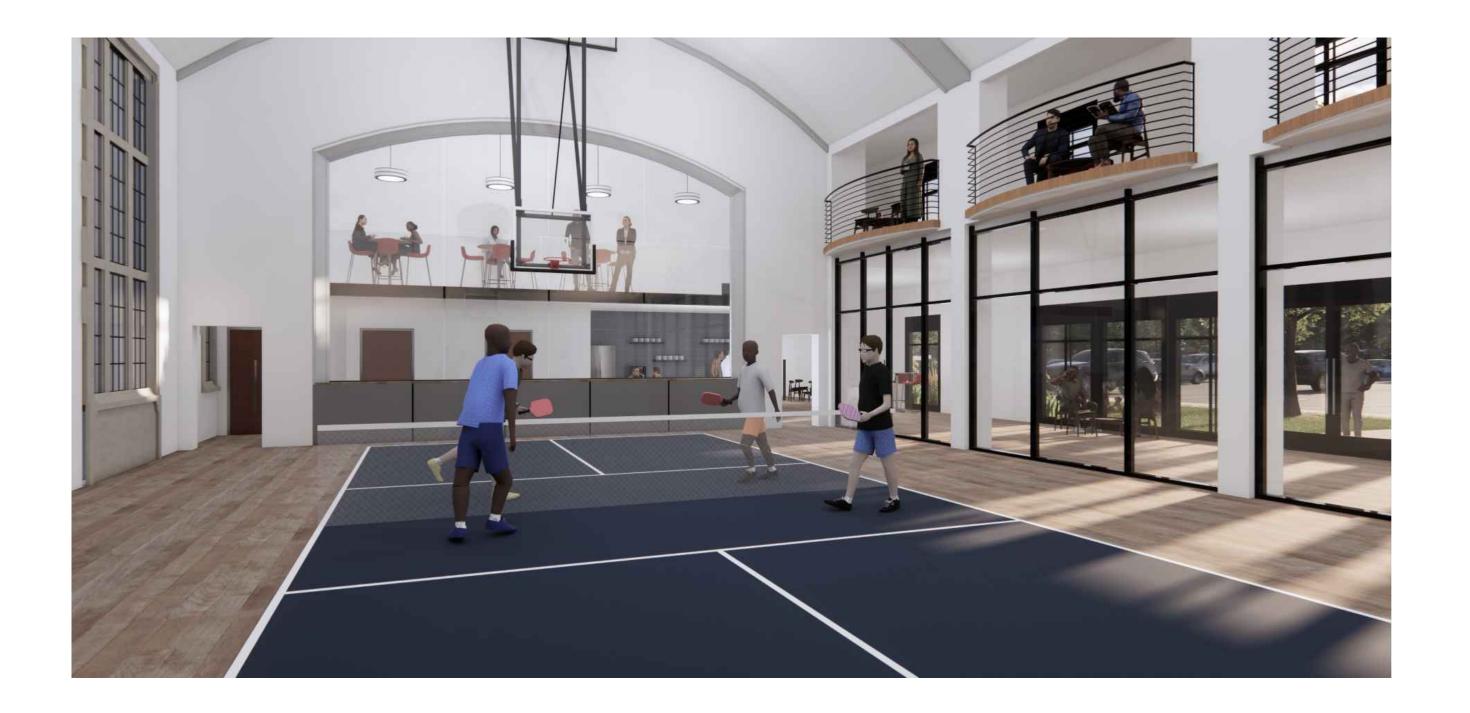
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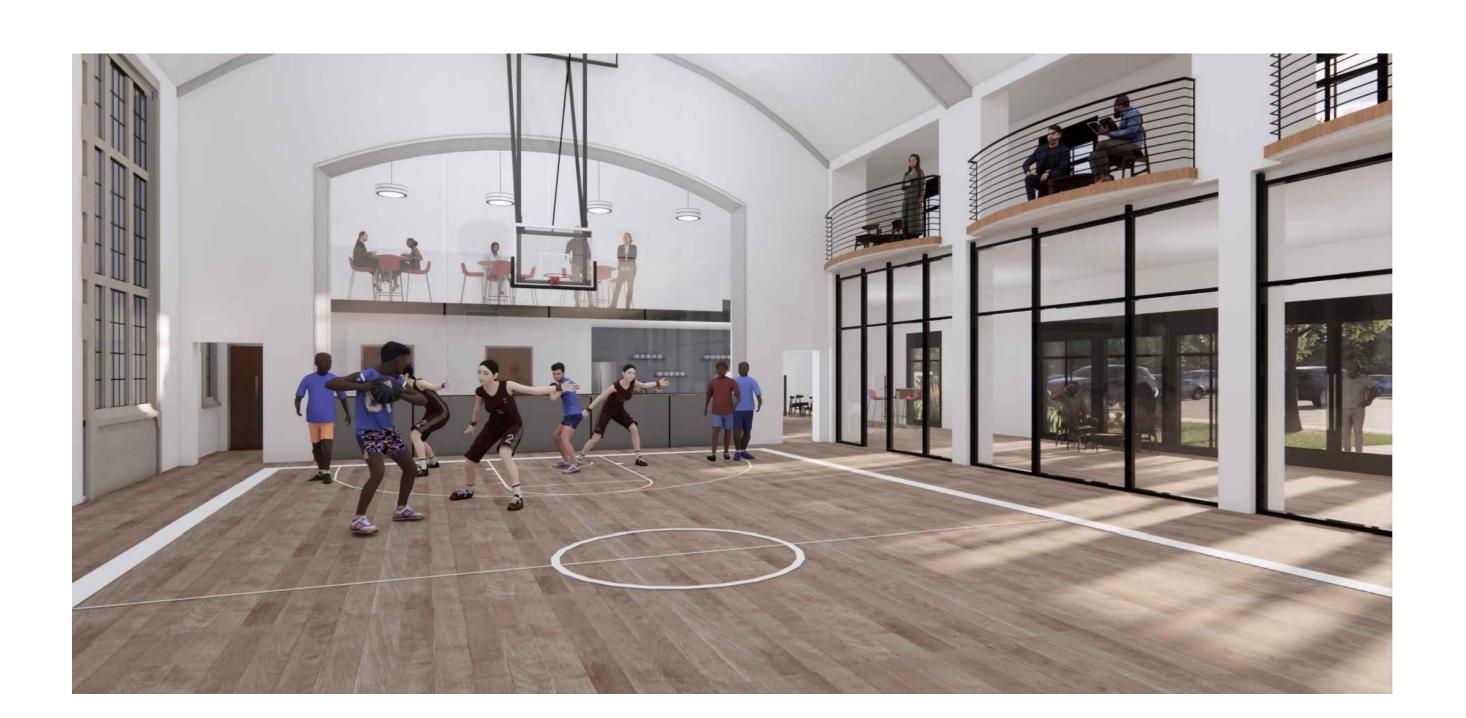
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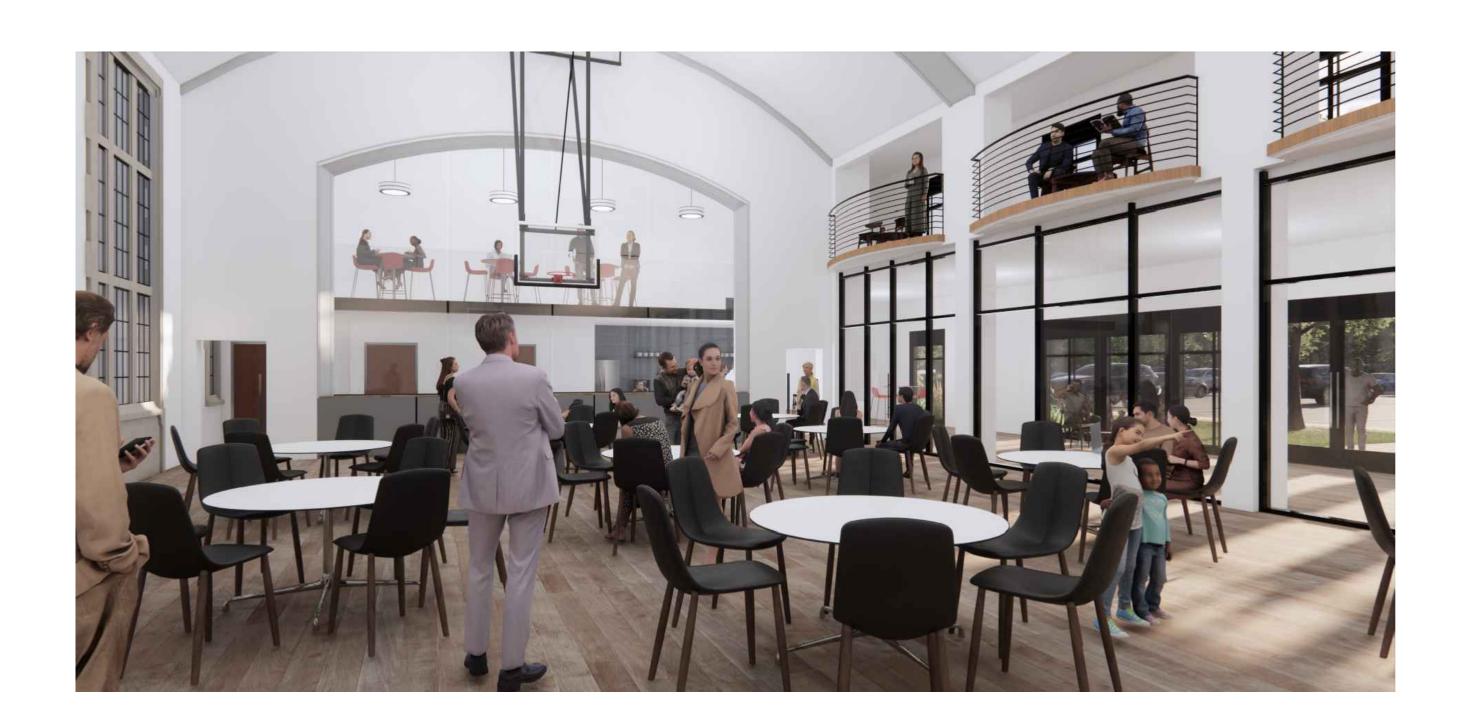


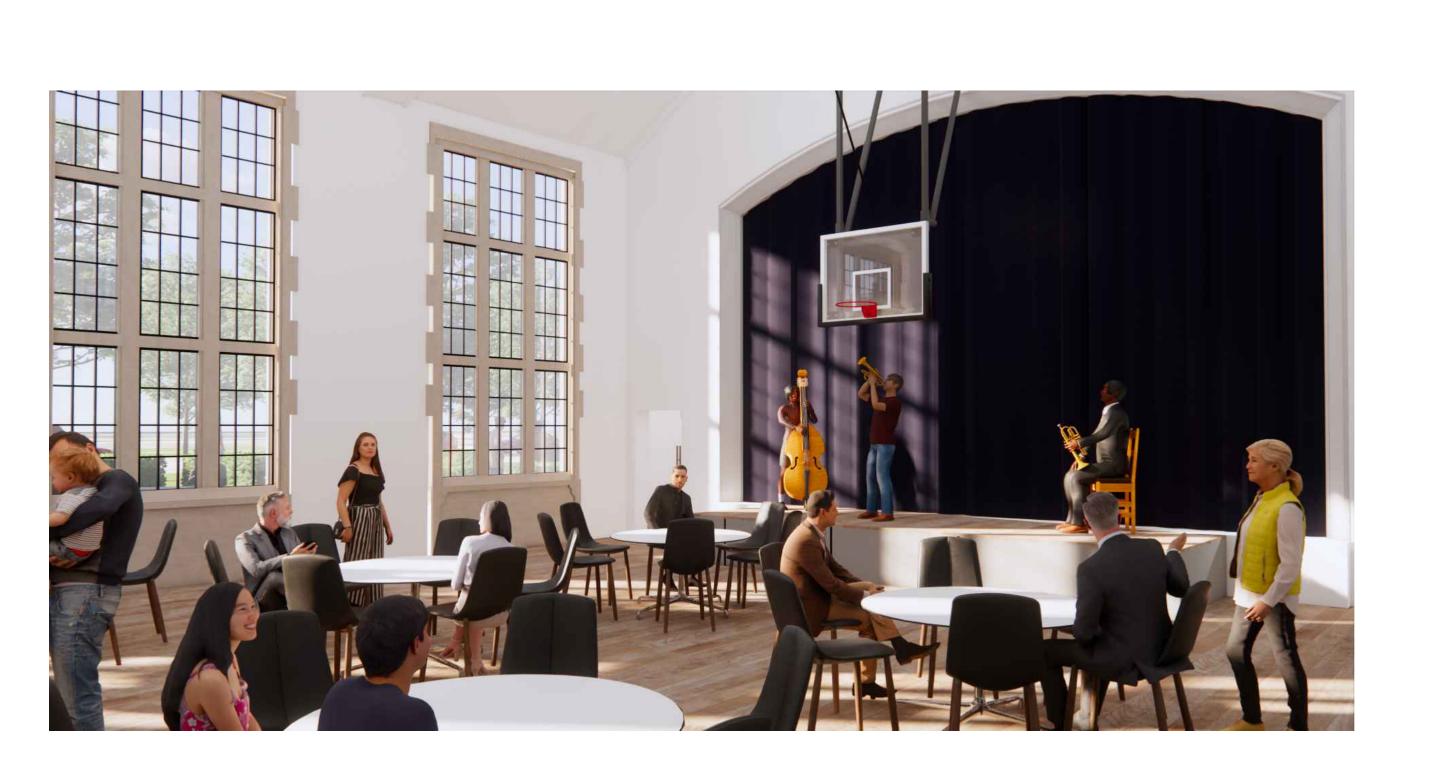
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PROPOSED BUILDING ADDITION FOR:

27700 Southfield Rd,
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27700 Southfield Road Lathrup Village, MI 48076





SITE PLAN REVIEW 10.18.24

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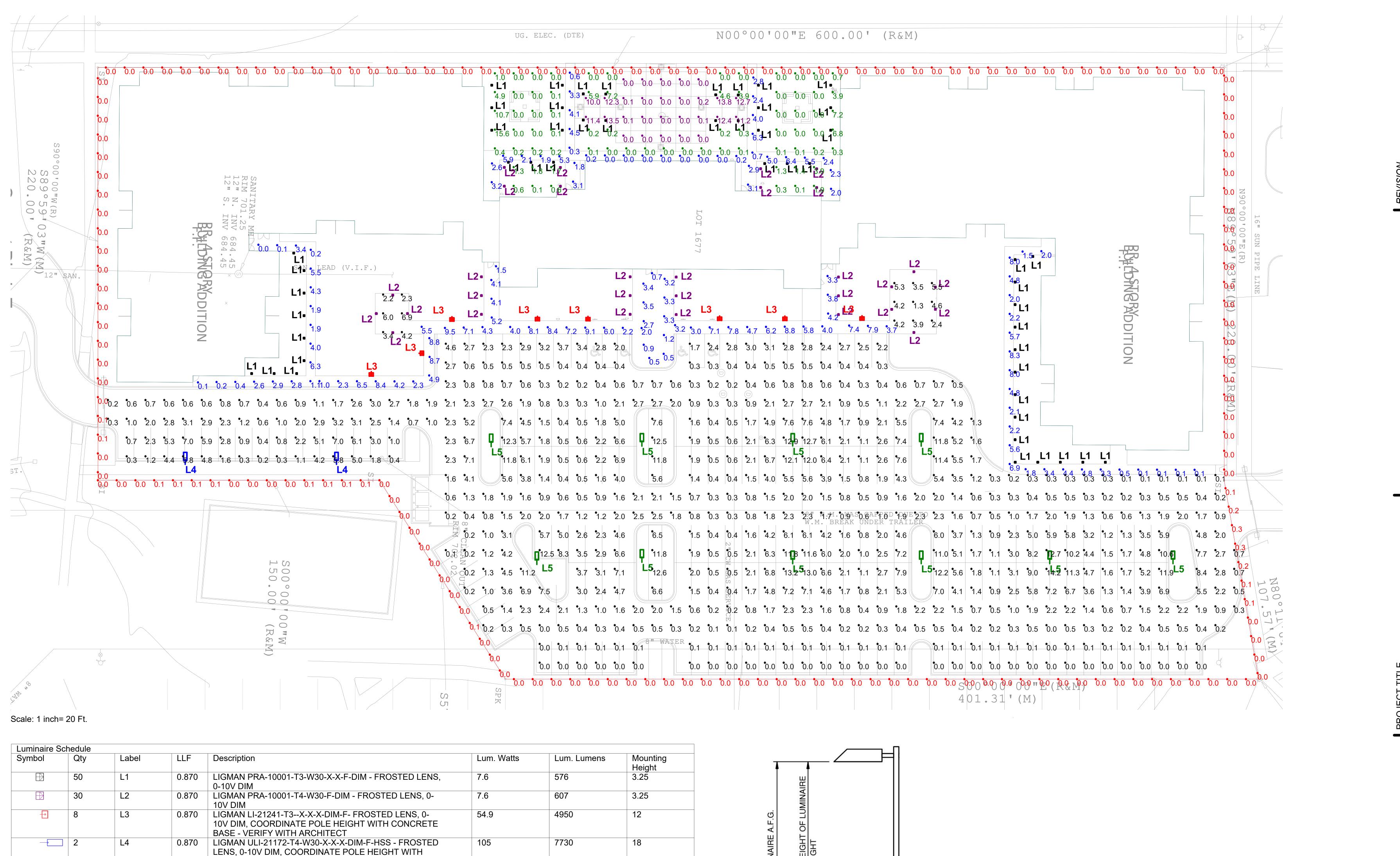
INTERIOR RENDERINGS



Projec

2118-24

Sheet n



18764

Avg/Min

2.98

1.90

N.A.

N.A.

N.A.

N.A.

N.A.

N.A.

18

155

Max/Min

4.23

3.14

N.A.

N.A.

N.A.

N.A.

N.A.

N.A.

PHO⁻ SITE

THE ENGINEER AND/OR ARCHITECT MUST DETERMINE APPLICABILITY OF LAYOUT TO

FLOOR TO BOTTOM OF LUMINAIRE LENS, UNLESS OTHERWISE NOTED.

LIABLE FOR ANY CODE COMPLIANCE DISCREPANCY.

AND COMPLIANCE

FOR APPROVAL.

VARIABLE FIELD CONDITIONS.

EXISTING/FUTURE FIELD CONDITIONS AND ALL MANDATORY BUILDING AND LIFE SAFETY CODES

LIGHTING LAYOUT REPRESENTS ILLUMINATION LEVELS CALCULATED FROM LABORATORY DATA

TAKEN UNDER CONTROLLED CONDITIONS IN ACCORDANCE WITH ILLUMINATING ENGINEERING

SOCIETY APPROVED METHODS. ACTUAL PERFORMANCE OF ANY MANUFACTURER'S LUMINAIRE MAY VARY DUE TO VARIATION IN ELECTRICAL VOLTAGE, TOLERANCE IN LAMPS/LEDS AND OTHER

MOUNTING HEIGHTS INDICATED ARE FROM GRADE TO BOTTOM OF LUMINAIRE LENS OR FROM

CLARUS DOES NOT ACT AS THE ELECTRICAL, CIVIL OR STRUCTURAL ENGINEER AND DOES NOT

LIGHTING LIGHTING CALCULATIONS ARE NOT A SUBSTITUTE FOR INDEPENDENT ENGINEERING

ANALYSIS OF LIGHTING SYSTEM SUITABILITY AND SAFETY. THE ENGINEER AND/OR ARCHITECT OF RECORD IS RESPONSIBLE TO REVIEW FOR CODE COMPLIANCE, INCLUDING AND NOT LIMITED

TO - NFPA 101 LIFE SAFETY CODE, MICHIGAN ENERGY CODE, MICHIGAN BUILDING CODE AND/OR

FOR SITE PLAN PHOTOMETRICS, THE USE OF ALTERNATES MUST BE RESUBMITTED TO THE CITY

IECC CODE, LIGHTING QUALITY COMPLIANCE AND LOCAL LIGHTING ORDINANCES.

DETERMINE BASE REQUIREMENTS AND APPLICABLE CODE COMPLIANCE. CLARUS IS NOT

DATE 20-21-24 PROJECT No. CLC24-121915 SHEET No.

CALCULATIONS ARE TAKEN AT GRADE

10

Calculation Summary

Plaza Green Space Areas

Walkways Adjacent Plaza Area

Barbeque Area

Main Walkways

Parking Lot

Property Line

Plaza Area

Label

Dog Park

L5

CONCRETE BASE - VERIFY WITH ARCHITECT

CONCRETE BASE - VERIFY WITH ARCHITECT

LENS, 0-10V DIM, COORDINATE POLE HEIGHT WITH

Avg

3.88

3.91

2.30

3.49

1.24

0.01

2.43

5.5

14.2

13.8

1.3

0.0

0.0

0.0

0.0

0.0

0.0

0.870 LIGMAN ULI-21291-T5-W30-X-X-X-DIM-F - FROSTED