# City of Ann Arbor, Washtenaw County, Michigan "The George" - proposed Phase 2 Site Plan for Planning Commission

PROJECT DESCRIPTION:	inew construction	i oi a 4-Story reside	endal building on	the site of the George,	an existing residential complex.
SUSTAINABILITY CHECKLI	ST:				
nclude on-site solar.	The project does	not propose any o	n-site solar.		
Pair on-site solar with on-site energy storage.		not propose any o		rage.	
Achieve full building electrification.		chieve full electrific		0	
Please specify all-electric heating sources.	All-electric heating		100000000000000000000000000000000000000		
Use only high-efficiency appliances and interior	r The project will u	tilize all electric ap	pliances (includir	ng kitchen ranges), Ener	rgy Star certified where available, and
ighting.	high-efficiency LE	ED lighting in all sp	aces.		
Achieve net zero energy performance or a gree ouilding certification	en The project does	not anticipate gree	en building certific	eation.	
Consult an Aging in Place (AIP) specialist (for residential projects)	The project is no	t planning to consu	ılt an AIP speciali	ist.	
nclude compost waste bin designations.	The project will in	nclude an area desi	ignated for compo	ost and organic waste or	n site.
Consider materials use throughout structure	The project will c	onsider the use of	responsibly source	ced materials with low e	mbodied carbon and end-of-life
Provide building life cycle assessment.				l building life cycle asse	
mplement a construction and demolition wast management plan.	e The project will in	nplement a constru	uction and demoli	tion waste plan with the	selected General Contractor.
DEVELOPMENT COMPARIS	SON CHART				
	EXISTING/F	REQUIRED		PROPOSED	
SITE AREA:	3,000 SF			283,931 SF	6.52 ACRES
OT WIDTH:	NO MINIMUM			456'	0.027101120
ZONING:	C1B			C1B	
	•			•	
_AND USE:	RESIDENTIAL			RESIDENTIAL	
BUILDING AREA					
FLOOR AREA (ATTRIBUTABLE FAR):	MAX 150%	363,356		414,565 SF	
FLOOR AREA RATIO:	MAX 150%	128%		146%	
BUILDING UNITS:	N/A	249 EXISTING		46 NEW	
BEDROOMS:	N/A	387 EXISTING		58 NEW	
BUILDING HEIGHT - IN STORIES	MIN	MAX			
(TABLE 5.17-4)	N/A	4		4	
BUILDING HEIGHT - IN FEET	MIN	MAX			
TABLE 5.17-4)	N/A	50'		50'	
JNIT TYPES / No.				See architectural pla	ins.
VEHICULAR PARKING (TABLE 5.19-2):	None required.			EXISTING TO REMAIN	1
EV PARKING	EV-C		EV-I	2 EXISTING EV-I SP	ACES TO BE RELOCATED
	90%		10%	10 NEW EV-I SPAC	ES TO BE PROVIDED IN EX GARA
BICYCLE PARKING (TABLE 5.19-1):	50% CLASS A	0% CLASS B	50% CLASS C		
SPACE / 5 DWELLINGS	31 BIKE(S)		30 BIKE(S)	56 CLASS A SPACES PARKING MEETS RE	6 EXIST, 8 CLASS C EXIST, EXISTIN QUIREMENTS
PETDACKS (TABLE 5.47.0)	EVACCUEE	DAIN!	N/A N/		
SETBACKS (TABLE 5.17-6):	EXPOSURE	MIN	MAX	1 10	
	FRONT	10'	25'	10'	
			201 @ D DICT	EXIST	
	SIDE-EAST	0'	30' @ R DIST.		
	SIDE-EAST SIDE-WEST REAR	0' 0'	30' @ R DIST. 30' @ R DIST. 30' @ R DIST.	EXIST EXIST	

DEVELOPMENT SUMMARY AND ZONING COMPLIANCE

# Developer / Proprietor

Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733 Contact:

Ken Gold Tel: 732.415-7171

# Pricipal Architect

Bowers & Associates, Inc. 2400 South Huron Parkway Ann Arbor, MI 48104 Contact: **Scott Bowers** 

Tel: 734.975-2400

Tel: 734.930-1500

# Consulting Architect

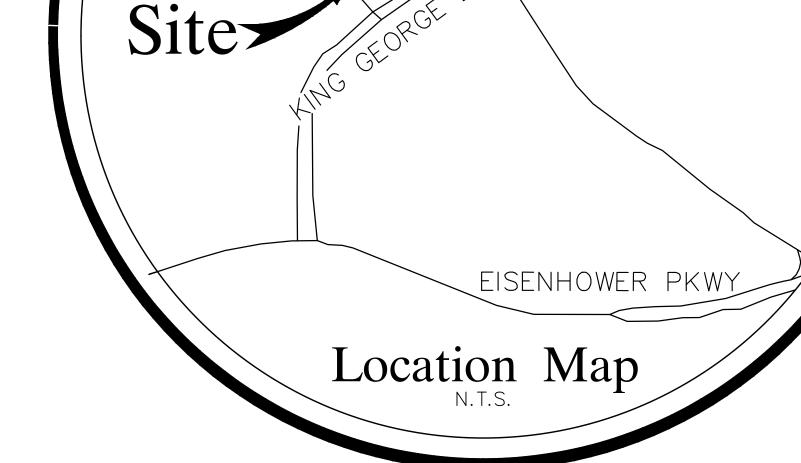
J. Bradley Moore & Associates Architects, Inc. 4844 Jackson Rd., Suite #150 Ann Arbor, MI 48103 Contact: **Brad Moore** 

# Civil Engineer

Nowak & Fraus Engineers 46777 Woodward Ave. City of Pontiac, MI 48342 Contact: **Andrew Wiseman** Tel: 248.332-7931

# Landscape Architect

Nowak & Fraus Engineers 46777 Woodward Ave. City of Pontiac, MI 48342 Contact: George Ostrowski Tel: 248.332-7931



2502 PACKARD STREET PART OF THE SE. 1/4 OF SECTION 4, AND PART OF THE NE 1/4 OF SECTION 9, T. 3 S, R. 6 E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

# LEGAL DESCRIPTION:

OUTLOT A, SMOKLER HUTZEL SUBDIVISION, OF PART OF THE SOUTHEAST ONE-QUARTER (1/4) OF SECTION 4 AND PART OF THE NORTHEAST ONE-QUARTER (1/4) OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43, WASHTENAW COUNTY RECORDS.





LAND PLANNERS TEL. (248) 332-7931 FAX. (248) 332-8257

Aug. 15, 2024

Issue Date:

# SHEET INDEX:

SP-00 COVER SHEET

**ALTA & TOPOGRAPHIC SURVEY** 

DEMOLITION PLAN GENERAL SITE PLAN

PAVING & GRADING PLAN

UTILITY PLAN

STORM WATER MANAGEMENT PLAN SOIL EROSION & DRAINAGE AREAS PLAN

REFUSE TRUCK & FIRE APPARATUS PLAN **CALCULATIONS & STORM DETENTION DETAILS** 

TREE PRESERVATION PLAN

**OVERALL LANDSCAPE PLAN** DETAILED LANDSCAPE PLAN

LANDSCAPE NOTES AND DETAILS

SP 1.01 PHOTOMETRIC PLAN SOLID WASTE DETAILS

FIRST FLOOR PLAN

FIRST FLOOR LOFT PLAN TYPICAL UPPER FLOOR PLAN

**EXTERIOR ELEVATIONS** 

RENDERINGS

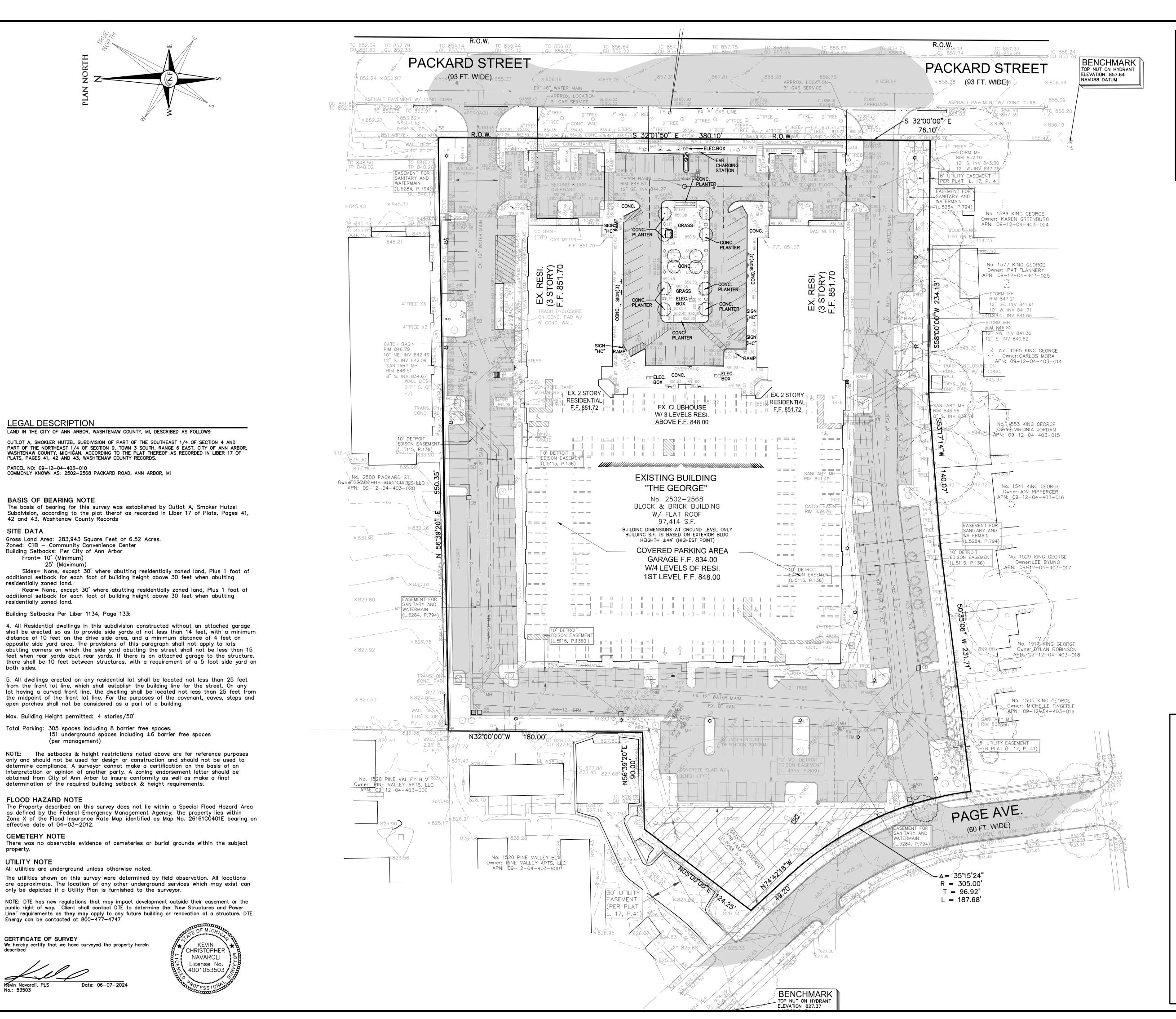
BUILDING SECTION

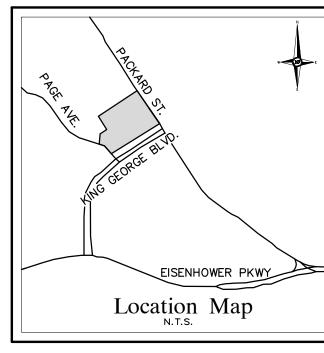
# **Project Description:**

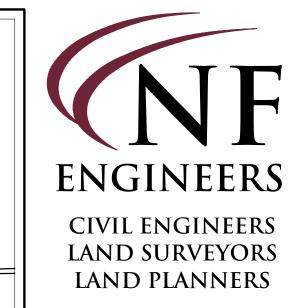
Currently the property is in the C1B Zone and consists of 291 residential rental apartments. Somerset seeks to construct a new 4-story building with approximately 46 residential units and 1,593 S.F of retail space adjacent to the existing building. The existing vehicular access around the courtyard will be restricted to pedestrian access and emergency vehicles, as

# Community Analysis per UDC Chapter 55:

- Impact of proposed Development on public schools: No impact
- Relationship of intended use to neighboring uses: No change
- Impact of adjacent uses on proposed development or Special Exception Use: N/A
- Impact of proposed Development on the air and water quality, and on existing Natural Features of the Site and neighboring Sites: No additional impact
- Impact of the proposed use on historic Sites or structures which are located within a historic district or listed on the National Register of Historic Places: N/A
- Public sidewalk maintenance statement: All public sidewalk fronting the property on Paige and Packard shall be maintained and kept free of snow, ice and debris
- Additional information for Site Plans: Natural Features General Descriptions and Impacts: N/A







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

SEAL.

PROJECT
The George
2502 Packard St.
Ann Arbor, MI 48009

Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

<u>Contact:</u> Ken Gold Tel: 732.415-7171

PROJECT LOCATION
Part of the 1/4 of
Section 4
T. 3 South, R. 6 East
City of Ann Arbor,
Washtenaw County,
Michigan

SHEET
ALTA / NSPS
Land Title Survey
& Topographic Survey



LEGEND	
CLEAN-OUT MANHOLE  S O S O S	EXISTING SANITARY SEWER
HYDRANT GATE VALVE  W —— —— W——	EXISTING WATER MAIN
INLET RYCB MANHOLE CB	EXISTING STORM SEWER
	EXISTING BURIED CABLES
· · · ·	EXISTING GAS MAIN
UTILITY POLE GUY WRE	EXISTING OVERHEAD LINES
EXISTING LIGHT POLE EXISTING SIGN	
C.O. MANHOLE	PR. SANITARY SEWER
HYDRANT GATE VALVE	PROPOSED WATER MAIN
INLET RYCB MANHOLE CB	PROPOSED STORM SEWER
COMPACT TO 95% MAX. DENSITY	PR. SAND BACKFILL
$\bigcirc$ A	UTILITY CROSSING
TC 600.00	PR. TOP OF CURB ELEVATION
GU 600.00	PROPOSED GUTTER ELEVATION
TW 600.00	PR. TOP OF WALK ELEVATION
TP 600.00	PR. TOP OF PAVEMENT ELEV.
FG 600.00	PROPOSED FINISH GRADE
600	PROPOSED CONTOUR
	PROPOSED SWALE
-	PR. DRAINAGE DIRECTION
	PROPOSED INLET FILTER
	DRAINAGE AREA LIMITS
	PROPOSED SILT FENCE
	LIMITS OF SOIL DISRUPTION

DATE 1SSUED FOR / REVISED 08-15-24 Issued for City Review 10-29-24 Revised per Client 11-18-24 Revised per City 02-04-25 Revised per City 03-10-25 Revised per City 07-17-25 Per City Review #3

DRAWN BY:

D. McConkey

DESIGNED BY:

A. Wiseman

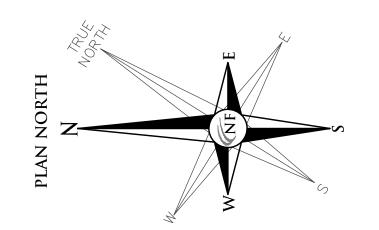
APPROVED BY:
P. Williams

DATE:
July 15, 2024

SCALE: 1" = 40'

NFE JOB NO. SH

NFE JOB NO. SHEET NO. **SP-01** 



GENERAL TREE PROTECTION NOTES

CONSTRUCTION IS COMPLETE.

HE LIMITS OF GRADING LINE

ACTIVITIES MUST BE PROTECTED.

WITH A HYDRO-AXE.

APPROVED TREE PROTECTION SHALL BE ERECTED PRIOR TO THE START OF

CONSTRUCTION ACTIVITIES, AND SHALL REMAIN IN PLACE UNTIL THE IN PLACE UNTIL

ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE

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.

DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE,

ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL OCCUR OUTSIDE OF THE

SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF PROTECTED

TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION

ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY STAKED

THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE

CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY

THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES.

REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.

FENCE PLACED AT TREE DRIPLINE

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

> INSTALL POSTS A MIN. 24 INTO GROUND, TYPICAL

AS INDICATED ON PLAN, TYPICAL

PROTECTION FENCING TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD

EVERY 10' O.C.

FENCING.

10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER THE DRIP LINE OF PROTECTED TREES.

11. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED.

ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.

FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.

15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR

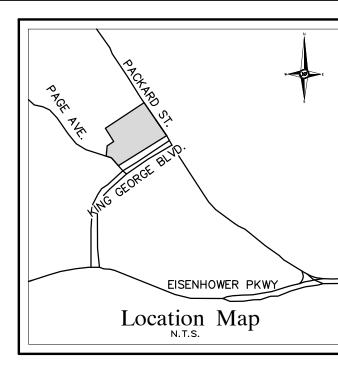
TREE PROTECTION DETAIL-SECTION

TREE PROTECTION DETAIL-PLAN

WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT

#### TREES (2 EA.) RELOCATE EX.--RELOCATE EX. 2" BENCHMARK PACKARD STREET EX. PAVEMENT FOR LIGHT POLE TREES (4 ÉA.) TOP NUT ON HYDRANT WATER MAIN PER CITY , REMOVE EX. MONUMENT ELEVATION 857.64 UNSTALLATION SIGN "THE GEORGE" NAVD88 DATUM × 858.69 ×858.28 **(93 FT. W#D/E4)**6 JX. LOCATION-REMOVE EX. EV 3" CHARGING STATION - APPROX. LOCATION AND ELEC. CONDUIT ASPHALT PAVEMENT W/ CONC. CURB WALL-HES -× 856),79 REMOVE EX. REMOVE 54 LF OF EX, × 856.19 0.64' W. OF CATCH BASIN \_D.45' S. 0 RIM 852.10 12" S. INV 843.30 12" W\_HV 843.35 REMOVE EX.-INDICATES LIMITS-TREES (12 EA.) OF PROPOSED WORK (TYP) -LIMITS OF PAVEMENT AND CURB REMOVAL LIMITS OF PAVEMENT AND CURB REMOVAL 853.93 REMOVE EX. ADA -REMOVE EX. CONCRETE COURTYARD WALK AND REMOVE EX. CONCRETE -REMOVE EXISTING BASE MATERIAL (TYP) WALK & CURB (TYP) CAR STRIPING AND INSTALL LOADING MARKINGS REMOVE EX. ASPHALT POLES AND BASES DRIVEWAY AND ALL BASE MATERIAL (TYP) ELECTRICAL BOXES (BY OTHERS) STORM MH SAWCUT & REMOVE EX. RIM 847.21 4"TREE X >-- REMOVE EX. CONCRETE 12" SE. INV 841.6 ENCLOSURE EXPANSION WALK & CURB (TYP) 0" W. INV 841.71 ON CONC. PAD W/ 4"TREE > REMOVE EX. CONCRETE-➤ REMOVE EX. ADA 2" S. INV 840.62 RAISED PLANTERS (TYP) CATCH BASIN RIM 846.79 RAMP & SIGN REMOVE EX. ADA-10" NE. INV 842. 12" S. INV 842.09 SANITARY MH RIM 846.51 8" S. INV 834. W/HANDRAII └─F.F. 851.72 ~INDICATES LIMITS OF PROPOSED INDICATES LIMITS-OF PROPOSED WORK (TYP) SANITARY N RIM 841.49 ×8<del>3</del><del>3</del><del>3</del><del>8</del><del>9</del> — -8<del>3</del>4 — -×8<del>3</del>4.13 No. 2502-2568 BLOCK & BRICK BUILDING RIM 839.76 W/ FLAT ROOF 97,414 S.F. BUILDING DIMENSIONS AT GROUND LEVEL ONLY BUILDING S.F. IS BASED ON EXTERIOR BLDG. $HEIGHT= \pm 44'$ (HIGHEST POINT) 329.80 4" TREE 4" TREE CONC. PAD EX. 12" WATER MAIN $\times 827.04$ 1.04'S. PAGE AVE. -4' HIGH FENCING TO BE PLACED AT DRIP LINE OR LIMITS OF GRADING, -Δ≠∕35°15'24"

BENCHMARK



### **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.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED BY THE 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 AND 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 REQUIREMENTS OF THE UTILITY COMPANY.

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

SUSPICIOUS MATERIAL BE FOUND. WATER SERVICES AND/OR STOP-BOX SHALL BE PRESERVED AND BULK HEADED AT THE PROPERTY LINE OR AS DIRECTED BY THE OWNER'S REPRESENTATION.

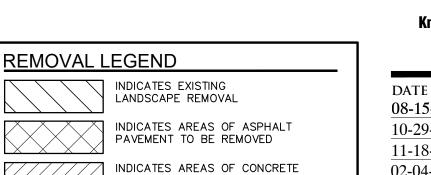
WHERE EXISTING BUILDINGS PLANED FOR DEMOLITION FALL WITHIN PROPOSED BUILDING FOOT PRINTS, BASEMENT FLOOR SLABS, FOUNDATION WALLS AND FOOTINGS SHALL BE COMPLETELY REMOVED AND BACK FILLED WITH MDOT CLASS II GRANULAR MATERIAL AND BE MACHINE COMPACTED TO A MINIMUM OF 98% OF MATERIALS MAXIMUM DENSITY.

# LEGAL DESCRIPTION

R = 305.00'T = 96.92'L = 187.68

LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS: OUTLOT A, SMOKLER HUTZEL SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 4 AND PART OF THE NORTHEAST 1/4 OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43, WASHTENAW COUNTY RECORDS.

PARCEL NO: 09-12-04-403-010 COMMONLY KNOWN AS: 2502-2568 PACKARD ROAD, ANN ARBOR, MI



PAVEMENT/ SIDEWALK TO BE REMOVED

INDICATES EXISTING TREE

TO BE REMOVED

LEGEND	
MANHOLE S	EXISTING SANITARY SEWER
HYDRANT	EXISTING SAN. CLEAN OUT
GATE VALVE	EXISTING WATER MAIN
MANHOLE CATCH BASIN	EXISTING STORM SEWER
<u> </u>	EX. R. Y. CATCH BASIN
UTILITY POLE GUY POLE	EXISTING BURIED CABLES
GUY WIRE	OVERHEAD LINES
*	LIGHT POLE
e]	SIGN
···	EXISTING GAS MAIN
· ×·×·×·×·×·×·×·×·	EXISTING UTILITY OR CURB TO BE REMOVED
. //. //. //. //. /	EXISTING UTILITY TO BE ABANDONED
12" MAPLE	CONSTRUCTION/TREE PROTECTION FENCING



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

SEAL



PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

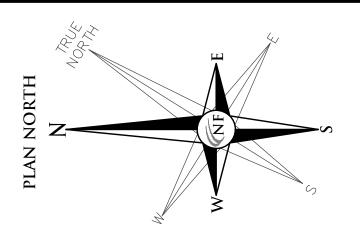
SHEET Demolition Plan



DATE	ISSUED FOR / REVIS
<u>08-15-24</u>	Issued for City Revi
10-29-24	Revised per Client
11-18-24	Revised per City
02-04-25	Revised per City
03-10-25	Revised per City
07-17-25	Per City Review #3

			_
DRAWN BY:			
A. Wiseman			
DESIGNED BY:			
A. Wiseman			
APPROVED BY:			
P. Williams			
DATE:			
July 15, 2024			
SCALE: $1'' = 40'$			
40 20 0	20	40	6
NFE JOB NO.	SI	HEET N	O.

D601-07



-METAL SIGN WITH CONTRASTING COLORS

SIGN INDICATING "VAN ACCESSIBILITY"

-2 1/2" DIA. OR 3" DIA. GALVANIZED METAL SIGN POST

ACCESSIBLE PARKING SPÀCES

10" DIA. CONCRETE BASE WITH

TELESCOPING SLEEVE FOR SIGN

THRU-BOLT CONNECTION

BARRIER FREE PARKING SIGN DETAIL

Provide (1) for each accessible parking space

FEES WILL BE REQUIRED.

SHALL BE PROVIDED AT (1) OF EA. (8)

(WHITE SIGN, GREEN LETTERS, BLUE SYMBOL)

ALL CONSTRUCTION SHALL CONFORM TO THE PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS DATED

IF THE CONSTRUCTION TO BE INSPECTED BY PUBLIC SERVICES DOES NOT COMMENCE WITH ONE YEAR OF THE

THE PUBLIC SERVICES TECHNICIAN'S COPY OF THE STAMPED, APPROVED PLANS SHALL GOVERN CONSTRUCTION.

JANUARY 8, 2025, AND INCLUDE ALL UPDATES ISSUED AT THE TIME OF CONSTRUCTION PLAN APPROVAL.

DATE OF THE PUBLIC SERVICES INSPECTION REQUEST APPROVAL, THIS APPROVAL WILL EXPIRE AND THE

CONSTRUCTION PLANS SHALL BE SUBJECT TO RE-REVIEW AND PAYMENT OF ALL APPLICABLE PLAN REVIEW

THE PUBLIC SERVICES TECHNICIAN HAS THE RIGHT TO HALT CONSTRUCTION ACTIVITIES AND REQUIRE THAT

MISS-DIG MUST BE NOTIFIED THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION @ (800) 482-7171.

THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC

ALL SIDEWALKS ARE TO BE KEPT AND MAINTAINED IN GOOD REPAIR BY THE OWNER OF THE LAND ADJACENT TO

AND ABUTTING THE SAME.' PRIOR TO THE ISSUANCE OF THE FINAL CERTIFICATE OF OCCUPANCY FOR THIS SITE, ALL EXISTING SIDEWALKS IN NEED OF REPAIR MUST BE REPAIRED IN ACCORDANCE WITH CITY STANDARDS.

THE PETITIONER SHALL CONFIRM THAT THERE ARE NO ENCROACHMENTS INTO THE RIGHT-OF-WAY, EITHER ABOVE OR BELOW GRADE. SHOULD ENCROACHMENTS BE PROPOSED, THE PETITIONER MUST SUBMIT DETAILED CONSTRUCTION PLANS FOR REVIEW AND APPROVAL BY THE CITY, AND ENTER INTO A LICENSING AGREEMENT. NO ENCROACHMENTS ANTICIPATED FOR THIS DEVELOPMENT.

SIDEWALKS CONSTRUCTED IN THE PUBLIC RIGHT-OF-WAY SHALL MEET ALL REQUIREMENTS AND GUIDELINES AS

SET FORTH IN THE ADA STANDARDS FOR ACCESSIBLE DESIGN. DETAILED PLANS SHALL BE SUBMITTED TO THE

GRADING ISSUES WILL NEED TO BE WORKED OUT AT SITE PLAN STAGE IN ORDER TO OBTAIN GRADING PLAN

PROPOSED RETAINING WALLS, FOUNDATIONS, STAIRS OR TIE BACKS SHALL NOT EXTEND INTO THE PROPOSED

PROPOSED WATER MAIN CONNECTS TO EXISTING WATER MAIN ON 2500 PACKARD STREET TO THE NORTH. PROPOSED RAILINGS SHALL NOT EXTEND INTO THE PROPOSED UTILITY EASEMENTS OR PUBLIC RIGHT-OF-WAY.

ALL ON-SITE AND RIGHT-OF-WAY SIDEWALKS ARE ADA COMPLIANT WITH THE EXCEPTION OF THE SIDEWALK ADJACENT TO THE SOUTH APPROACH TO PACKARD STREET.

THE DEVELOPER SHALL CONTRACT A PRIVATE SOLID WASTE COMPANY FOR TRASH REMOVAL ON THIS PROJECT.

UTILITY EASEMENT OR THE EXISTING PACKARD STREET RIGHT-OF-WAY. EXCEPTION SHALL BE MADE WHERE THE

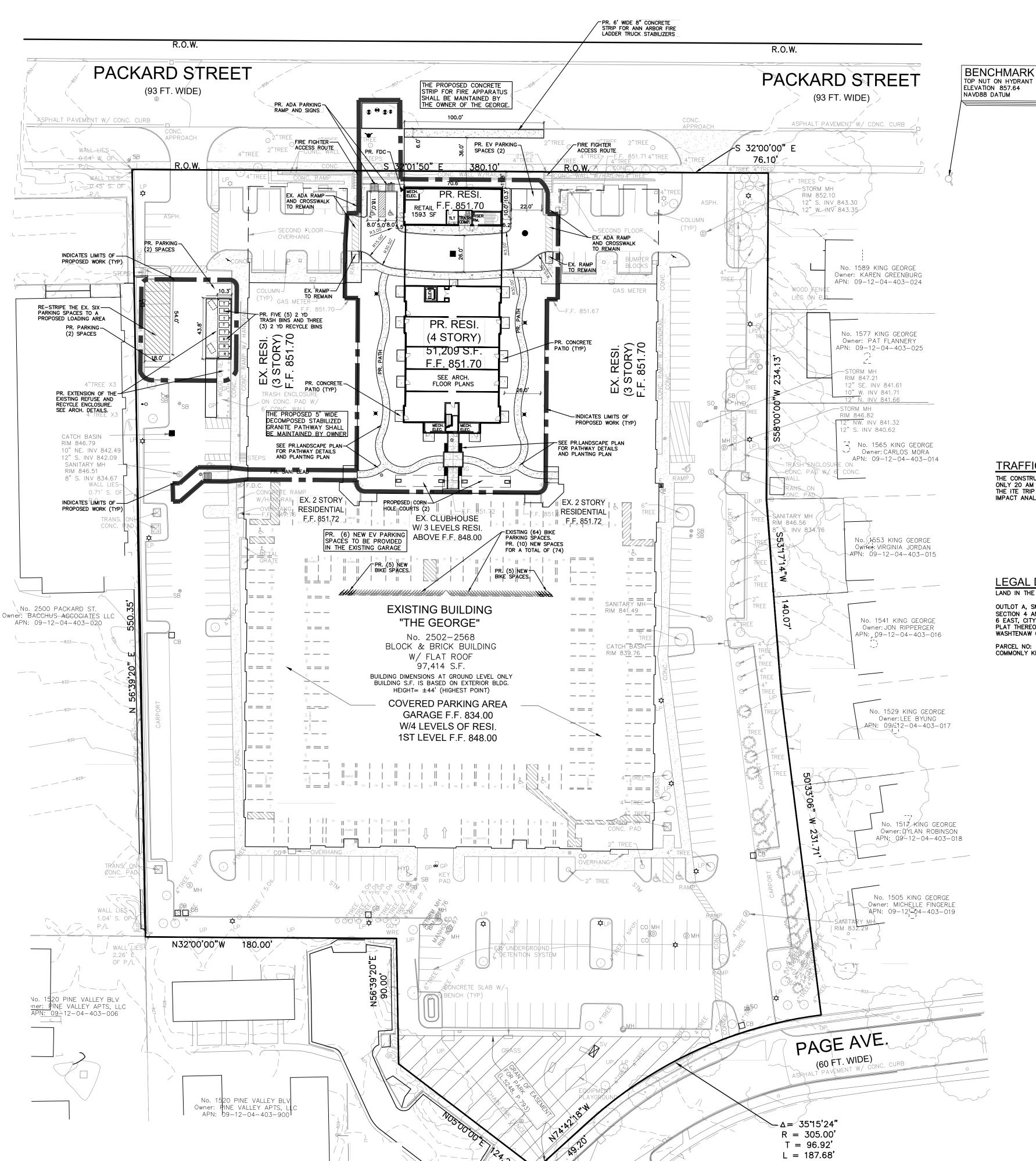
PROJECT MANAGEMENT SERVICES UNIT FOR REVIEW AND APPROVAL AT THE CONSTRUCTION PLAN STAGE.

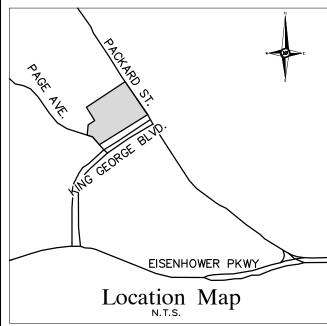
ITEMS THAT DO NOT MEET CITY STANDARDS BY REDONE/ REPLACED/ RECONSTRUCTED.

ALL PERMITS AND APPROVED PLANS ARE TO BE ON-SITE AT ALL TIMES.

REFER TO ARCHITECTURAL PLANS FOR ADDITIONAL BUILDING DETAILS.

SIDEWALKS SHALL BE "CARRIED-THROUGH" AT DRIVE APPROACHES.







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

**SEAL** 



PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd.

Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

LEGAL DESCRIPTION

IMPACT ANALYSIS IS REQUIRED.

LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS: OUTLOT A, SMOKLER HUTZEL SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 4 AND PART OF THE NORTHEAST 1/4 OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST. CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43,

PAVING LEGEND

PARCEL NO: 09-12-04-403-010 COMMONLY KNOWN AS: 2502-2568 PACKARD ROAD, ANN ARBOR, MI

**LEGEND** 

\_\_\_\_

TRAFFIC TRIP GENERATION STATEMENT

THE CONSTRUCTION OF THE PROPOSED NEW BUILDING ON THE SITE WILL GENERATE

ONLY 20 AM AND 21 PM TRIPS PER PEAK HOUR ACCORDING TO THE 11TH EDITION OF THE ITE TRIP GENERATION MANUAL THEREFOR NO MULTIMODAL TRANSPORTATION

PROJECT LOCATION Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

General Site Plan



Know what's **below** Call before you dig.

NFE JOB NO.

**D601-07** 

SHEET NO.

**SP-03** 

CLEAN-OUT MANHOLE

S ⊙ S C S EXISTING SANITARY SEWER GATE VALVE DATE ISSUED FOR / REVISED W— W— EXISTING WATER MAIN 08-15-24 Issued for City Review INLET RYCB MANHOLE CB 10-29-24 Revised per Client R EXISTING STORM SEWER 11-18-24 Revised per City EXISTING BURIED CABLES 02-04-25 Revised per City EXISTING GAS MAIN 03-10-25 Revised per City UTILITY POLE GUY WIRE

SUSTING OVERHEAD LINES 07-17-25 Per City Review #3 EXISTING LIGHT POLE EXISTING SIGN 08-19-25 Per City Review #4 HYDRANT GATE VALVE — — w— → w— PROPOSED WATER MAIN INLET RYCB MANHOLE CB
R PROPOSED STORM SEWER COMPACT TO 95% MAX. DENSITY PR. SAND BACKFILL DRAWN BY: UTILITY CROSSING A. Wiseman TC 600.00 **DESIGNED BY:** PR. TOP OF CURB ELEVATION GU 600.00 A. Wiseman PROPOSED GUTTER ELEVATION PR. TOP OF WALK ELEVATION TW 600.00 APPROVED BY: TP 600.00 PR. TOP OF PAVEMENT ELEV. P. Williams FG 600.00 PROPOSED FINISH GRADE PROPOSED CONTOUR July 15, 2024 . — . PROPOSED SWALE PR. DRAINAGE DIRECTION SCALE: 1'' = 40'PROPOSED INLET FILTER ---- DRAINAGE AREA LIMITS

> - PROPOSED SILT FENCE - LIMITS OF SOIL DISRUPTION

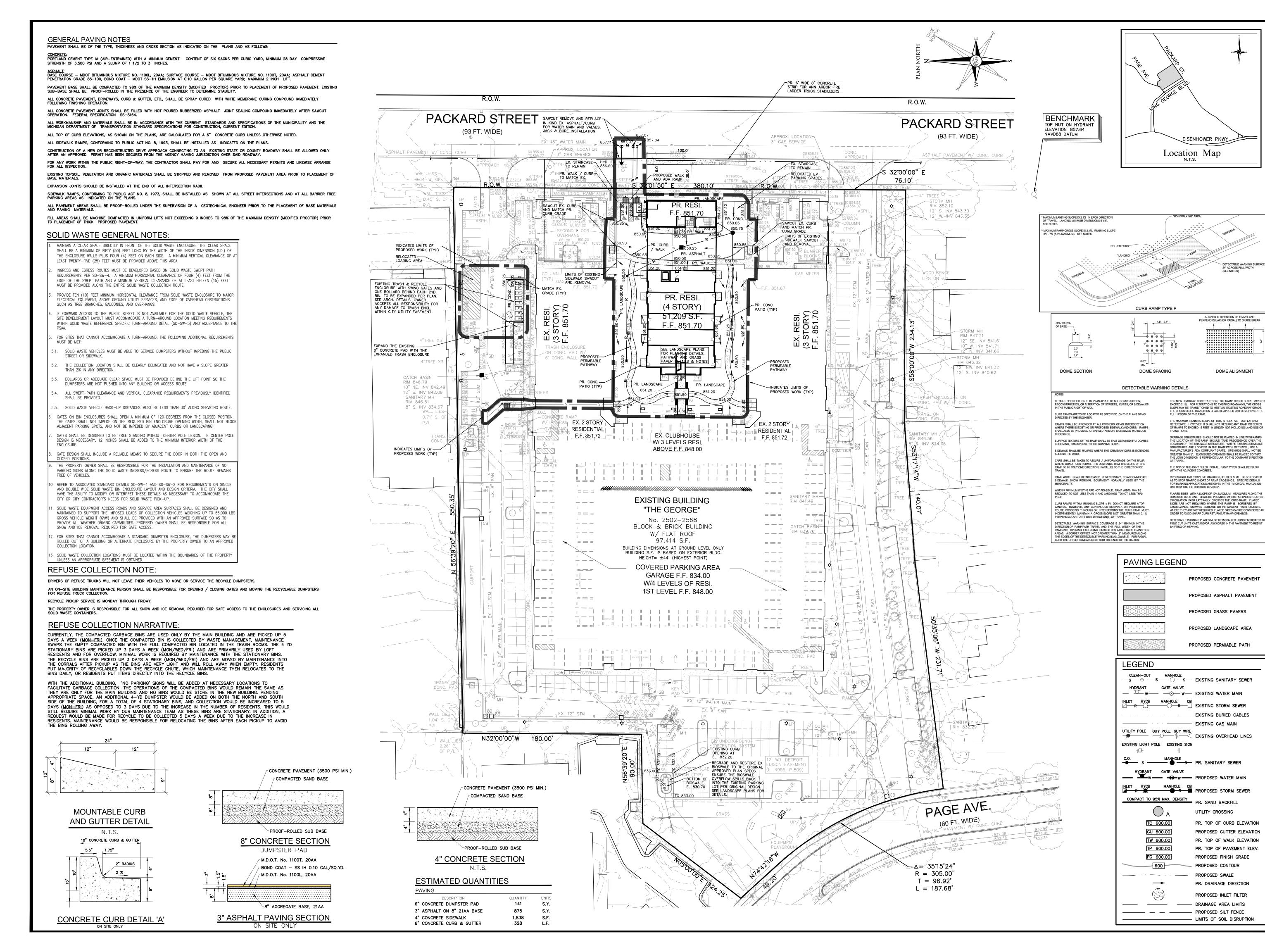
PROPOSED CONCRETE PAVEMENT

PROPOSED ASPHALT PAVEMENT

PROPOSED GRASS PAVERS

PROPOSED LANDSCAPE AREA

PROPOSED PERMIABLE PATH



**ENGINEERS CIVIL ENGINEERS** LAND SURVEYORS EISENHOWER PKWY\_\_\_ LAND PLANNERS

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

**SEAL** PATRICK J. WILLIAMS **ENGINEER** 

PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development

FOR NEW ROADWAY CONSTRUCTION. THE RAMP CROSS SLOPE MAY NOT EXCEED 2.1%. FOR ALTERATIONS TO EXISTING ROADWAYS, THE CROSS SLOPE MAY BE TRANSITIONED TO MEET AN EXISTING ROADWAY GRADE. THE CROSS SLOPE TRANSITION SHALL BE APPLIED UNIFORMLY OVER THE FULL LENGTH OF THE RAMP. 101 Crawfords Corner Rd. Holmdel, NJ 07733 THE MAXIMUM RUNNING SLOPE OF 8.3% IS RELATIVE TO A FLAT (0% REFERENCE. HOWEVER, IT SHALL NOT REQUIRE ANY RAMP OR SERIE OF RAMPS TO EXCEED 15 FEET IN LENGTH NOT INCLUDING LANDINGS (TRANSITIONS.

ALIGNED IN DIRECTION OF TRAVEL AND PERPENDICULAR (OR RADIAL) TO GRADE BREAL

**+ + +** 

DOME ALIGNMENT

RKING APPLICATIONS ARE GIVEN IN THE "MICHIGAN MANUAL ON

PROPOSED CONCRETE PAVEMENT

PROPOSED ASPHALT PAVEMENT

PROPOSED GRASS PAVERS

PROPOSED LANDSCAPE AREA

PROPOSED PERMIABLE PATH

EXISTING BURIED CABLES

EXISTING GAS MAIN

R. SAND BACKFILL

PR. TOP OF CURB ELEVATION

PROPOSED GUTTER ELEVATION

PR. TOP OF PAVEMENT ELEV.

PROPOSED FINISH GRADE

PR. DRAINAGE DIRECTION

PROPOSED INLET FILTER

- DRAINAGE AREA LIMITS

PROPOSED SILT FENCE

LIMITS OF SOIL DISRUPTION

PROPOSED CONTOUR

PROPOSED SWALE

UTILITY CROSSING

Contact: Ken Gold REATER THAN 1/2. ELONGATED OPENINGS SHALL BE PLACED SO THAT IE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION Tel: 732.415-7171

> PROJECT LOCATION Part of the 1/4 of Section 4 Γ. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

Paving & Grading Plan

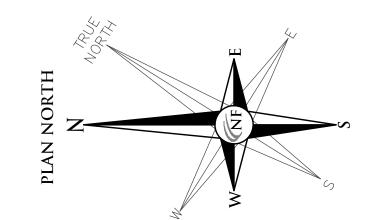
Know what's **below** Call before you dig.

ISSUED FOR / REVISED 08-15-24 Issued for City Review 10-29-24 Revised per Client 11-18-24 Revised per City 02-04-25 Revised per City 03-10-25 Revised per City 07-17-25 Per City Review #3 DRAWN BY: A. Wiseman **DESIGNED BY:** A. Wiseman PR. TOP OF WALK ELEVATION APPROVED BY: P. Williams

July 15, 2024

SCALE: 1'' = 40'

NFE JOB NO. SHEET NO. **D601-07** 



SITE UTILITY NOTES

CONNECTING TO ANY EXISTING LINE.

REQUIREMENTS AND SPECIFICATIONS.

BACKFILLING.

CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING UTILITY DURING

SEE SPECIFICATIONS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY

ALL FILL MATERIAL IS TO BE IN PLACE, AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES. CONTRACTOR SHALL NOTIFY THE UTILITY AUTHORITIES INSPECTORS 72 HOURS BEFORE

ALL UTILITIES SHOULD BE KEPT TEN (10') FEET APART (PARALLEL) OR WHEN CROSSING 18" VERTICAL CLEARANCE (OUTSIDE EDGE OF PIPE TO OUTSIDE EDGE OF PIPE).

TOPS OF EXISTING MANHOLES SHALL BE RAISED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT ELEVATION WITH WATER TIGHT LIDS.

LINES UNDERGROUND SHALL BE INSTALLED, INSPECTED AND APPROVED BEFORE

DRAWINGS DO NOT PURPORT TO SHOW ALL EXISTING UTILITIES. EXISTING UTILITIES SHALL BE VERIFIED IN FIELD PRIOR TO INSTALLATION OF ANY NEW LINES.

REFER TO INTERIOR PLUMBING DRAWINGS FOR TIE-IN OF ALL UTILITIES. CONTRACTOR IS RESPONSIBLE FOR COMPLYING TO THE SPECIFICATIONS OF THE LOCAL AUTHORITIES (CITY OF ANN ARBOR/WASHTENAW COUNTY) WITH REGARDS TO MATERIALS AND INSTALLATION OF THE WATER AND SEWER LINES.

THE CONTRACTOR MUST CALL "811" AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES AND/OR

UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO ANNOUNCED BUILDING POSSESSION AND THE FINAL CONNECTION OF SERVICE. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES FOR INSTALLATION

CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, TELEPHONE AND GAS SERVICE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES, IN SUCH A MANNER AS TO AVOID CONFLICTS, AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO

CONNECTING TO EXISTING UTILITIES. THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND THE OWNER'S INSPECTING AUTHORITIES.

ASSURE PROPER LOCATION AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO

CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED FOR ACCESS AND EGRESS EXCAVATION AND TRENCHING.

CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE FROM ALL CRITERIA FOR

PIPE BEDDING FOR WATER MAIN SHALL BE MINIMUM 4" THICK CITY OF ANN ARBOR CLASS II SAND BACKFILL.

CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. ALL STORM SEWER SHALL BE PREMIUM JOINT (RUBBER GASKET)

ALL SANITARY SEWER SHALL BE SUBJECT TO AIR AND MANDREL TESTING AND TELEVISION

### NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS DATED JANUARY 8, 2025, AND INCLUDE ALL UPDATES ISSUED AT THE TIME OF CONSTRUCTION PLAN APPROVAL.

IF THE CONSTRUCTION TO BE INSPECTED BY PUBLIC SERVICES DOES NOT COMMENCE WITH ONE YEAR OF THE DATE OF THE PUBLIC SERVICES INSPECTION REQUEST APPROVAL, THIS APPROVAL WILL EXPIRE AND THE CONSTRUCTION PLANS SHALL BE SUBJECT TO RE—REVIEW AND PAYMENT OF ALL APPLICABLE PLAN REVIEW FEES WILL BE REQUIRED.

THE PUBLIC SERVICES TECHNICIAN'S COPY OF THE STAMPED, APPROVED PLANS SHALL GOVERN CONSTRUCTION. THE PUBLIC SERVICES TECHNICIAN HAS THE RIGHT TO HALT CONSTRUCTION ACTIVITIES AND

REQUIRE THAT ITEMS THAT DO NOT MEET CITY STANDARDS BY REDONE/ REPLACED/

ALL PERMITS AND APPROVED PLANS ARE TO BE ON-SITE AT ALL TIMES.

DISCONNECTION IS REQUIRED IN ACCORDANCE WITH CURRENT CITY SPECIFICATIONS OF ALL EXISTING BUILDING FOOTING DRAINS. FOOTING DRAINS REMOVED MAY OFFSET REQUIRED

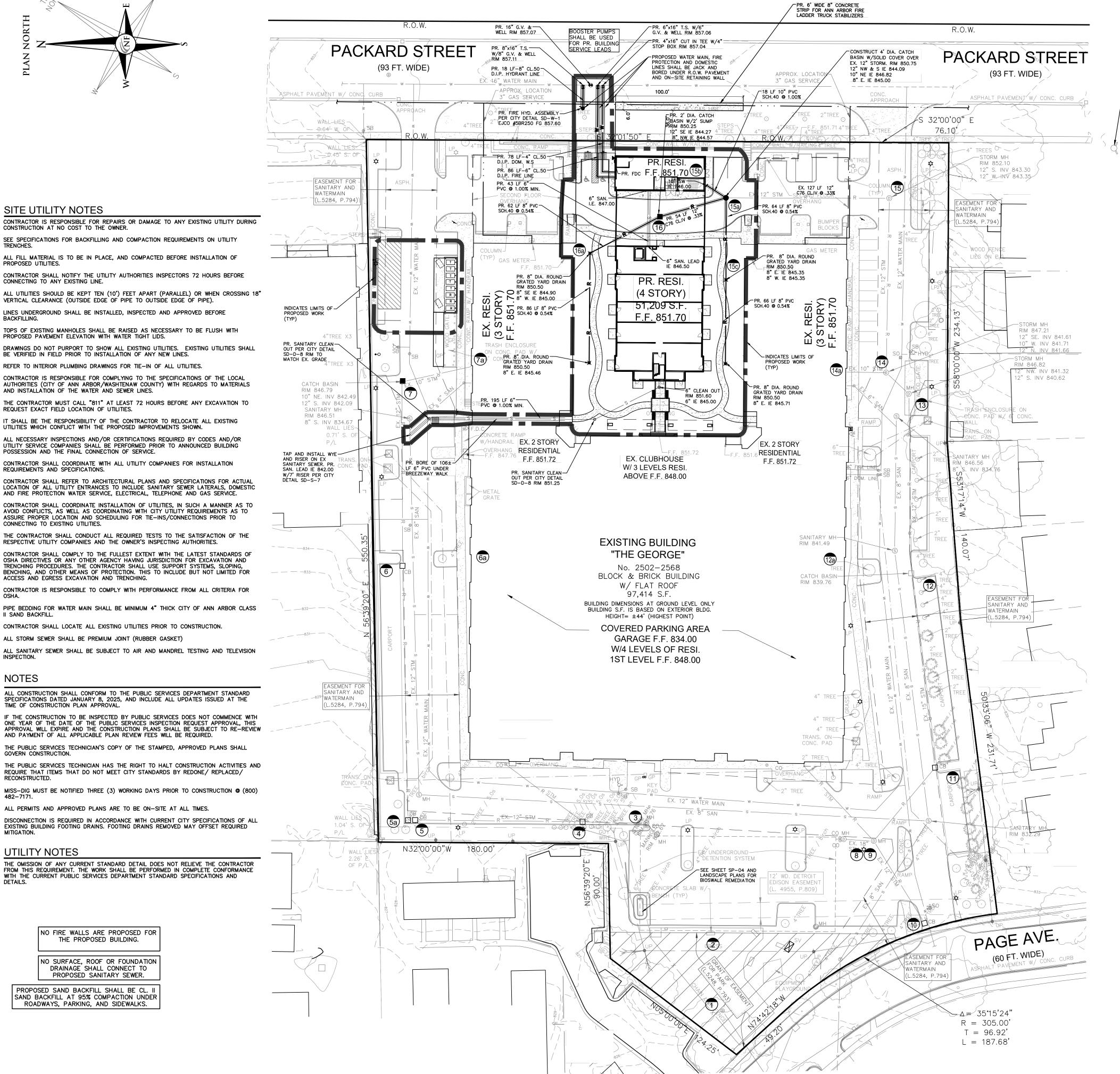
### UTILITY NOTES

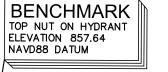
THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT. THE WORK SHALL BE PERFORMED IN COMPLETE CONFORMANCE WITH THE CURRENT PUBLIC SERVICES DEPARTMENT STANDARD SPECIFICATIONS AND

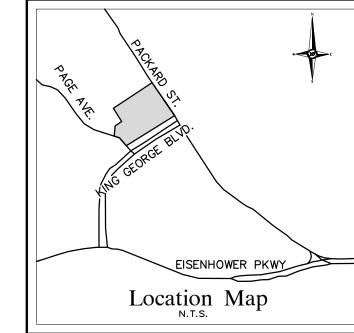
> NO FIRE WALLS ARE PROPOSED FOR THE PROPOSED BUILDING. NO SURFACE, ROOF OR FOUNDATION DRAINAGE SHALL CONNECT TO PROPOSED SANITARY SEWER.

PROPOSED SAND BACKFILL SHALL BE CL. II SAND BACKFILL AT 95% COMPACTION UNDER

ROADWAYS, PARKING, AND SIDEWALKS.







Sanitary Sewer Mitigation Calculations - Ex. Packard Sq. & "The George" phase 1 Corner of Packard Street and King George Blvd., City of Ann Arbor, Washtenaw County, Michigan Ann Arbor "Table A"; "Michigan Criteria for Subsurface Sewage Disposal, 1994 Edition; Recommended Standards for Wastewater Facilities, 2004 Edition - Ten States Standards **Existing Use Flow:** Packard Square Apartments and Retail Sq.Ft. or Unit flow rate (gpd) 15,485.00 0.03 464.55 Retail - Dry Storage 7,977.00 0.15 1,196.55 5,652.00 0.30 1,695.60 23.00 175.00 4,025.00 Apartments (up to 600 sq.ft.) Apartments (601 to 1200 sq.ft. 214.00 53,500.00 250.00 Apartments (greater than 1200 sq.ft.) 300.00 3,600.00 12.00 3,375.00 1.00 3375.00 Parking Garage (150 spaces)

Existing Use Flow Totals:					67,856.70
Proposed Use Flow:	"The George"	Phase 1			
				Design dry weather	Average Flow
			Sq.Ft. or Unit	flow rate	(gpd)
				(gpd/sq.ft.(unit))	
	Club House		5,652.00	0.30	1,695.60
	Apartments (up	to 600 sq.ft.)	23.00	175.00	4,025.00
	Apartments (up	to 600 sq.ft.)	42.00	175.00	7,350.00
	Apartments (60	1 to 1200 sq.ft.)	214.00	250.00	53,500.00
	Apartments (gre	eater than 1200 sq.ft.)	12.00	300.00	3,600.00
	Parking Garage	e (150 spaces)	1.00	3375.00	3,375.00
<b>Proposed Use Flow Totals</b>	:				73,545.60
Adjusted Proposed Flow:	( 73,545.6 (Pro	posed) - 67,856.7 (Existing)	=	5,688.90	GPD
Multiple by Peaking Factor	of 4:		=	22,755.60	GPD
Multiple by System Recovery of 1.1:		=	25,031.16	GPD	
Convert to GPM:			=	17.38	GPM
Proposed Peak Flow to be	Proposed Peak Flow to be Mitigated:		=	17	GPM

Sanitary Sewer Mitigation Calculations - "The George" Phase 2 Corner of Packard Street and King George Blvd., City of Ann Arbor, Washtenaw County, Michigan Ann Arbor "Table A"; "Michigan Criteria for Subsurface Sewage Disposal, 1994 Edition; Design Guidelines: Recommended Standards for Wastewater Facilities, 2004 Edition - Ten States Standards

Proposed Use Flow: " The George" Phase 2 (F		hase 2 (Pr. New Building)				
					Design dry weather	Average Flow
				Sq.Ft. or Unit	flow rate	(gpd)
					(gpd/sq.ft.(unit))	
	Retail			1,593.00	0.03	47.79
	Apartments (up to 600 sq.ft.)  Apartments (601 to 1200 sq.ft.)  Apartments (greater than 1200 sq.ft.)		0.00	175.00	0.00	
			to 1200 sq.ft.)	46.00	250.00	11,500.00
			ter than 1200 sq.ft.)	0.00	300.00	0.00
Proposed Use Flow Total	s:					11,547.79
Multiple by Peaking Facto	r of 4:			=	46,191.16	GPD
Multiple by System Recov	Multiple by System Recovery of 1.1:		=	50,810.28	GPD	
Convert to GPM:				=	35.28	GPM

LEGEND

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

SEAL PATRICK J. WILLIAMS ENGINEER

**PROJECT** The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

SHEET Utility Plan



ISSUED FOR / REVISED

OFFSET MITIGATION NOTE: CAPACITY CONSTRAINTS DURING WET WEATHER EVENTS HAVE BEEN IDENTIFIED IN THE TRUNKLINE SANITARY SEWERS DOWNSTREAM FROM THIS DEVELOPMENT. THEREFORE, IN ACCORDANCE WITH THE DEVELOPMENT SEWAGE FLOW OFFSET MITIGATION PROGRAM, THE FLOW MITIGATION MUST BE PERFORMED WITHIN THE APPROPRIATE DEVELOPER OFFSET MITIGATION ZONE AS APPROVED BY CITY COUNCIL IN JUNE 2015.

Proposed Peak Flow to be Mitigated:

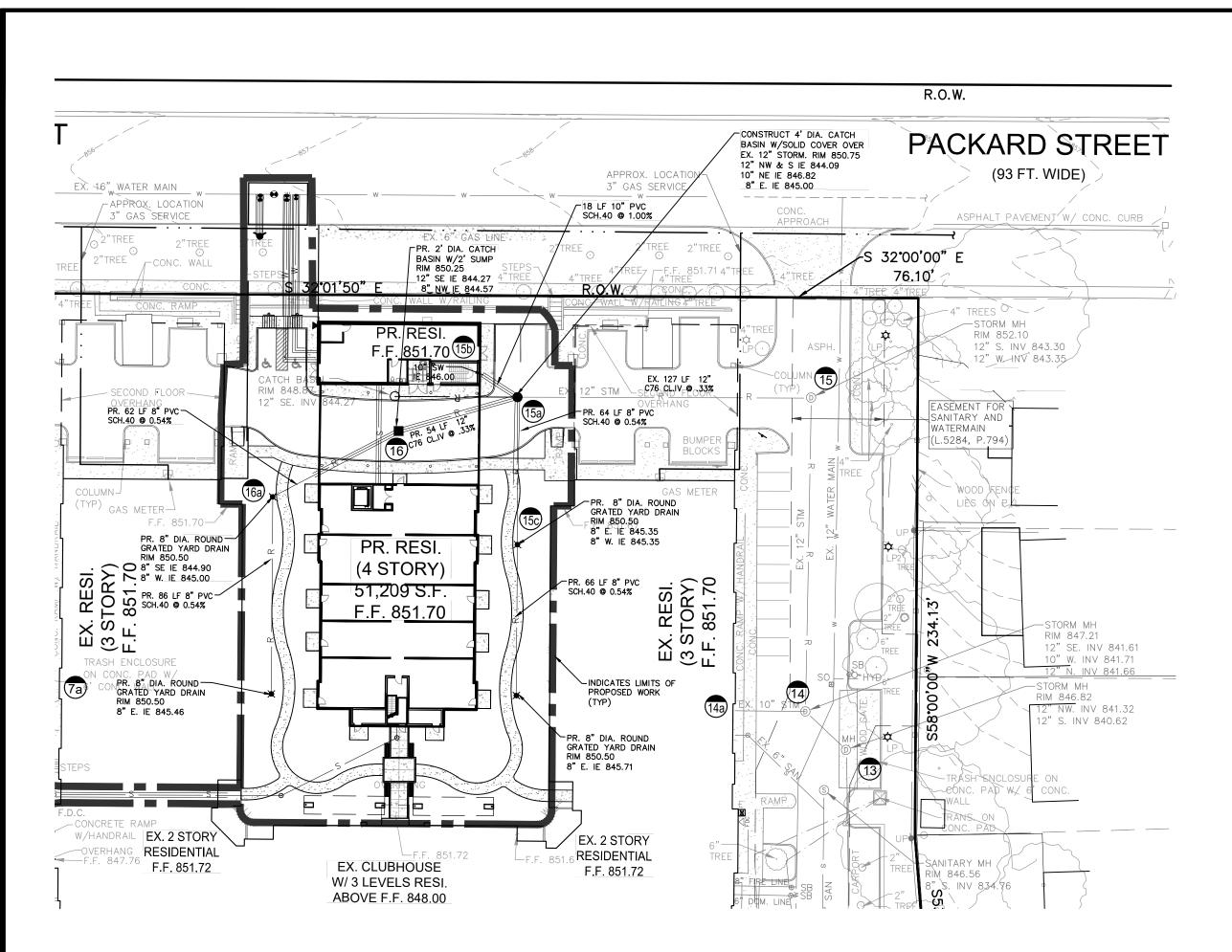
ESTIMATED QUANTITIES						
STORM SEWER						
DESCRIPTION	QUANTITY	UNITS				
12" C-76 CLASS IV SEWER PIPE	54	L.F.				
10" PVC SCHEDULE 40 SEWER PIPE	10	L.F.				
8" PVC SCHEDULE 40 SEWER PIPE	222	L.F.				
2' DIA. INLET W/2' SUMP	1	EA.				
4' DIA. CATCH BASIN W/ 2' SUMP	1	EA.				
8" YARD DRAIN	4	EA.				
WATER MAIN						
8" D.I. CLASS 50 D.I.P. w/POLY	18	L.F.				
6" D.I. CLASS 50 D.I.P. F.L. w/POLY	86	L.F.				
4" D.I. CLASS 50 D.I.P. DOM. W.S.	78	L.F.				
6" HYDRANT ASSEMBLY	1	EA.				
16" GATE VALVE & WELL	1	EA.				
8"x16" T. S. W/8" G.V. & WELL	1	EA.				
6"x16" T. S. W/6" G.V. & WELL	1	EA.				
4"x16" CUT IN TEE W/4" STOP BOX	1	EA.				
SANITARY SEWER						
6" PVC SEWER PIPE	253	L.F.				
6" SANITARY CLEAN OUT	2	EA.				
TAP/CONNECTION	1	EA.				

LEGAL DESCRIPTION LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS: OUTLOT A, SMOKLER HUTZEL SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 4 AND PART OF THE NORTHEAST 1/4 OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43, WASHTENAW COUNTY RECORDS. PARCEL NO: 09-12-04-403-010

COMMONLY KNOWN AS: 2502-2568 PACKARD ROAD, ANN ARBOR, MI

LEGEND	
CLEAN-OUT MANHOLE S S S	EXISTING SANITARY SEWER
HYDRANT GATE VALVE  W———————————————————————————————————	EXISTING WATER MAIN
INLET RYCB MANHOLE CB	EXISTING STORM SEWER
	EXISTING BURIED CABLES
	EXISTING GAS MAIN
UTILITY POLE GUY POLE GUY WRE	EXISTING OVERHEAD LINES
EXISTING LIGHT POLE EXISTING SIGN	
C.O. MANHOLE S	PR. SANITARY SEWER
HYDRANT GATE VALVE	PROPOSED WATER MAIN
, , , <u>-</u>	PROPOSED STORM SEWER
COMPACT TO 95% MAX. DENSITY	PR. SAND BACKFILL
$\bigcirc$ A	UTILITY CROSSING
TC 600.00	PR. TOP OF CURB ELEVATION
GU 600.00	PROPOSED GUTTER ELEVATION
TW 600.00	PR. TOP OF WALK ELEVATION
TP 600.00	PR. TOP OF PAVEMENT ELEV.
FG 600.00	PROPOSED FINISH GRADE
600	PROPOSED CONTOUR
	PROPOSED SWALE
	PR. DRAINAGE DIRECTION
	PROPOSED INLET FILTER
	DRAINAGE AREA LIMITS
	PROPOSED SILT FENCE
	LIMITS OF SOIL DISRUPTION

08-15-24	Issued for C	City Review			
10-29-24	Revised per	Client			
11-18-24	Revised per	City			
02-04-25	Revised per	City			
03-10-25	Revised per	City			
07-17-25	Per City Re	view #3			
	•				
DRAWN B	Y:				
A. Wise	man				
DESIGNED	O BY:				
A. Wiseman					
APPROVED BY:					
P. Willia					
DATE:	•1115				
	2024				
July 15,	2024				
scale: 1	" = 40'				
40 20	0 20	40 60			
NFE JOB N	IO. 5	SHEET NO.			
D601-0	07	<b>SP-05</b>			



### **Maintenance Plan and Budget**

Storm Water Management System Maintenance Plan for;

Somerset Development (owner)

- 1. Responsibility for Maintenance
  - a. During construction, it is the developer's responsibility to perform the
  - b. Following construction, it will be the responsibility of the owner to perform the maintenance.
- 2. Source of Financing

The owner is required to pay for all maintenance activities on a continuing basis.

- 3. Maintenance Tasks and Schedule
- a. See the charts below: The first describes maintenance tasks during construction to be performed by the developer, the second describes maintenance tasks by the owner.
- b. Immediately following construction, the developer will have the storm water management system inspected by an engineer to verify grades of the detention and filtration areas and make recommendations for any necessary sediment removal.

Maintenance Tasks and Schedule during Construction

	Components						<u>Schedule</u>
	Storm Sewer System	Catch Basin Sumps	Catch Basin Inlet Castings	Outflow Control Structures	Water Quality Structure	Storm Detention Pipe	
Tasks							
Inspect for Sediment accumulation	Х	Х	Х	Х	Х	Х	Weekly
Removal of sediment accumulation	Х	X	Х	Х	Х	Х	As needed & prior to turnover
Inspect for floatables and debris		X		Х	Х		Quarterly
Cleaning of flotables and debris		X		X	X		Quarterly & at turnover
Make adjustments or replacements as determined by preturnover inspection	X	х	Х	Х	X	X	As needed



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

**SEAL** 



PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Every 2 years Washtenaw County, Michigan

SHEET Storm Water Management



DATE	ISSUED FOR / REVISEI
08-15-24	Issued for City Review
11-18-24	Revised per City
02-04-25	Revised per City
03-10-25	Revised per City
06-17-25	Per City Review #3

Maintenance Plan Budget	
Appual inspection for sediment accumulation	\$200.00
Annual inspection for sediment accumulation	
Removal of sediment accumulation every 2 years as needed	\$600.00
Inspect for floatables and debris annually and after major storms	\$150.00
Removal of floatables and debris annually and after major storms	\$200.00
Inspect structural elements during wet weather and compare to asbuilt plans every 2 years	\$150.00
Make structural adjustments or replacements as determined by inspection as needed	\$400.00
Have professional engineer carry out emergency inspections upon identification of severe problems	\$600.00
Total Annual Budget	\$2,300.00

ALL STORMWATER GENERATED FROM THE PROPOSED DEVELOPMENT SHALL DISCHARGE VIA PROPOSED AND EXISTING

RUNOFF FROM THE PROPOSED DEVELOPMENT AREA. THE SIZE OF THE CONTRIBUTING DRAINAGE AREA TO EXISTING

STRUCTURES REMAINS THE SAME AS ORIGINALLY DESIGNED. THE REDUCTION OF THE COEFFICIENT OF RUNOFF, WITH

THE PROPOSED USE OF THIS AREA, WILL RESULT IN A LOWER COEFFICIENT OF RUNOFF FOR THIS DRAINAGE AREA

THEREFORE NOT HAVE AN ADVERSE IMPACT ON THE EXISTING PIPE CAPACITIES OR INCREASE THE ENTIRE SITE

Catch Basin Outflow Control

Storm Detention

Annually

as needed

Annually

Annually

Annually

As Needed

Annually

Annually

Quality

Permanent Maintenance Tasks and Schedule

Components

System

STORM SEWER PIPES TO THE EXISTING UNDERGROUND DETENTION SYSTEM THAT WAS SIZED TO ACCOMMODATE

STORMWATER NARRATIVE:

DRAINAGE REQUIREMENTS.

**Tasks** 

Inspect for Sediment

accumulation

Removal of sediment

accumulation

Inspect for floatables and

Cleaning of flotables and

Inspect structural

elements during wet

weather

Make adjustments or

replacements as

determined by annual

wet weather inspection

Keep records of all inspections and

maintenance activities and report to owner

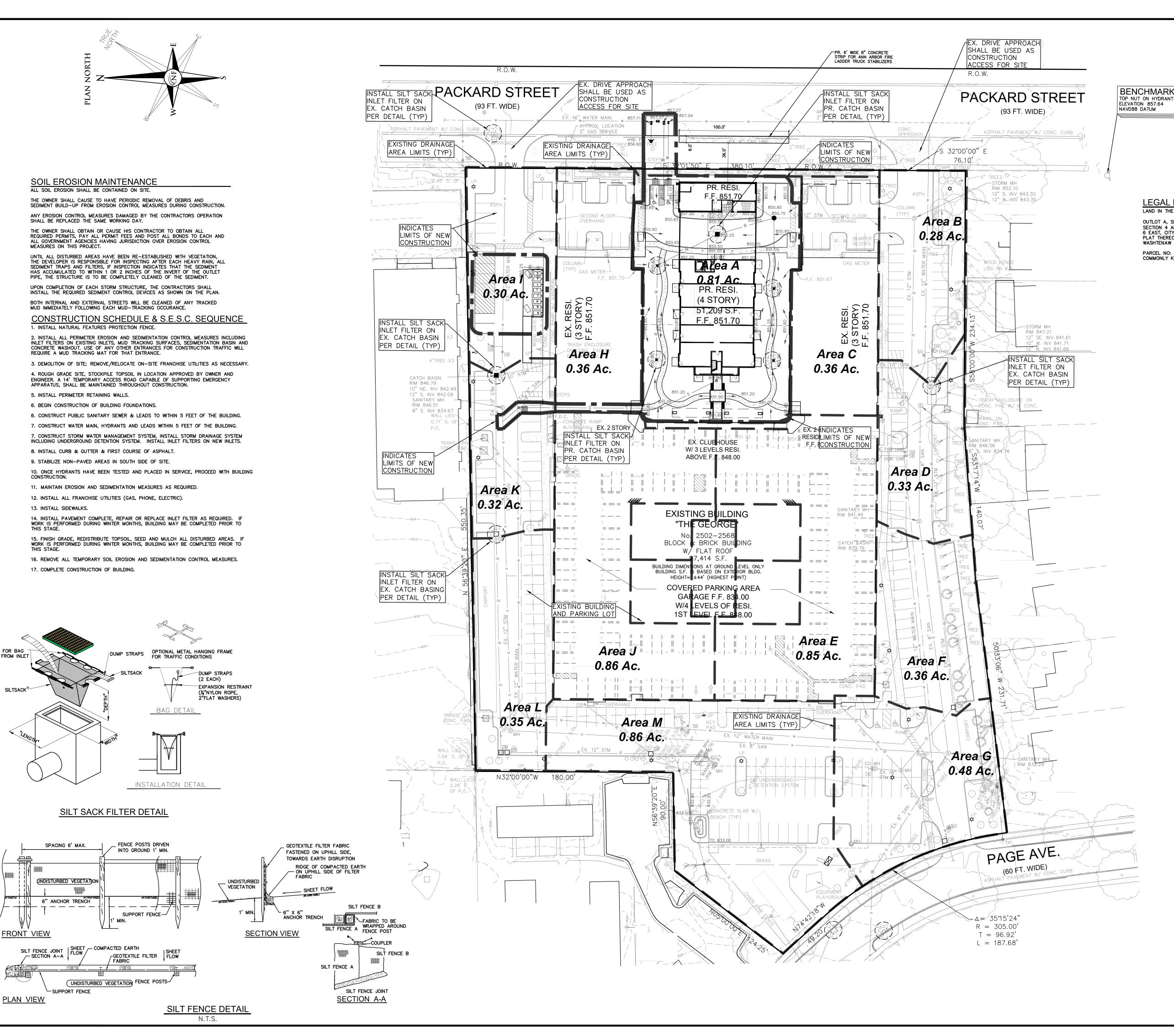
Keep records of all costs for inspections,

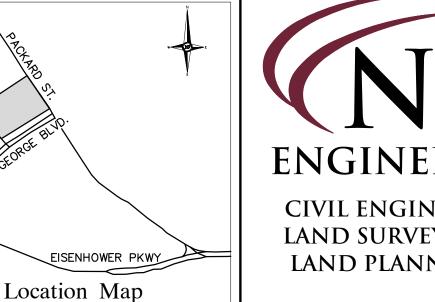
maintenance and repairs. Report to owner

DRAWN BY:			
A. Wiseman			
DESIGNED BY:			
A. Wiseman			
APPROVED BY:			
P. Williams			
DATE:			
July 15, 2024			
SCALE: $1'' = 40'$			
40 20 0	20	40	
NFE JOB NO.	SI	HEET N	0

**SP-06** 

D601-07





LEGAL DESCRIPTION

LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS: OUTLOT A, SMOKLER HUTZEL SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 4 AND PART OF THE NORTHEAST 1/4 OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43,

PARCEL NO: 09-12-04-403-010 COMMONLY KNOWN AS: 2502-2568 PACKARD ROAD, ANN ARBOR, MI

S.E.S.C. NOTES



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

**SEAL** 



PROJECT The George

3. BORROW AND FILL DISPOSAL AREAS WILL BE SELECTED BY THE CONTRACTOR WITH FULL CONSIDERATION FOR SOIL EROSION AND SEDIMENT CONTROL.

4. SPECIAL PRECAUTIONS WILL BE TAKEN IN THE USE OF CONSTRUCTION EQUIPMENT TO PREVENT SITUATIONS THAT PROMOTE EROSION.

BOND, AS REQUIRED, PRIOR TO ANY EARTH CHANGE.

MEASURES ARE IN PLACE PRIOR TO EXCAVATION IN

ARE IN PLACE IMMEDIATELY FOLLOWING BACKFILLING

2. CONSTRUCTION OPERATION SHALL BE SCHEDULED AND

PERFORMED SO THAT PREVENTATIVE SOIL EROSION CONTROL

CRITICAL AREAS AND TEMPORARY STABILIZATION MEASURES

5. CLEANUP WILL BE DONE IN A MANNER TO ENSURE THAT EROSION CONTROL MEASURES ARE NOT DISTURBED.

6. THE PROJECT WILL CONTINUALLY BE INSPECTED FOR SOIL EROSION AND SEDIMENT CONTROL COMPLIANCE. DEFICIENCIES WILL BE CORRECTED BY THE CONTRACTOR WITHIN 24

7. ESTIMATED COST OF S.E.S.C. MEASURES = \$3,956 10 INLET FILTERS X \$25 = \$250 1651 FT. SILT FENCE X \$2 = \$3,302 38 TN. TRACKING SURFACE X \$16 = \$608

8. ESTIMATED AMOUNT OF CUT 16,000 C.Y. & 19,320 C.Y. OF FILL. (NOTE THIS QUANTITY IS PROVIDED FOR SITE PLAN PURPOSES ONLY AND IS NOT TO BE USED FOR BIDDING OR ESTIMATION PURPOSES.)

9. UNSUITABLE MATERIAL IS TO BE HAULED TO A SUITABLE LOCATION OFF-SITE.

10. SHOULD CONSTRUCTION DISCONTINUE, ESTIMATED COST OF SITE SOIL STABILIZATION MEASURES \$31,549

11. THIS SITE WILL REQUIRE AN NPDES/NOC PERMIT FROM THE MDEQ. INSPECTIONS BY A CERTIFIED STORM WATER OPERATOR SHALL BE PERFORMED WEEKLY AND AFTER EVERY SIGNIFICANT RAIN EVENT.

NOTES

LIMITS OF GRADING ARE DEFINED BY PROPERTY LINE OR SILT FENCE AND TREE PROTECTION FENCE.

SITE VEGETATION, EXISTING TOPOGRAPHY AND SOILS ARE

CLEAN-OUT MANHOLE

S O S S EXISTING SANITARY SEWER

EXISTING STORM SEWER

EXISTING GAS MAIN

PR. SAND BACKFILL

UTILITY CROSSING

PR. TOP OF CURB ELEVATION

PROPOSED GUTTER ELEVATION

PR. TOP OF WALK ELEVATION

PR. TOP OF PAVEMENT ELEV.

PROPOSED FINISH GRADE

PR. DRAINAGE DIRECTION

PROPOSED INLET FILTER

- PROPOSED SILT FENCE

- LIMITS OF SOIL DISRUPTION

PROPOSED CONTOUR

PROPOSED SWALE

----- DRAINAGE AREA LIMITS

— ── w—— EXISTING WATER MAIN

---- EXISTING BURIED CABLES

UTILITY POLE GUY POLE GUY WIRE EXISTING OVERHEAD LINES

— Tw — PROPOSED WATER MAIN

INLET RYCB MANHOLE CB

SEE STORM SEWER AND DETENTION DETAILS AND CALCULATIONS ON SHEET SP-07.

DETAILED ON SHEET SP-01.

LEGEND

HYDRANT GATE VALVE

INLET RYCB MANHOLE CB

EXISTING LIGHT POLE EXISTING SIGN

HYDRANT GATE VALVE

COMPACT TO 95% MAX. DENSITY

TC 600.00

GU 600.00

TW 600.00

TP 600.00

FG 600.00

Part of the 1/4 of Washtenaw County, Michigan

SHEET



DATE ISSUED FOR / REVISED 08-15-24 Issued for City Review 10-29-24 Revised per Client 11-18-24 Revised per City 02-04-25 Revised per City 03-10-25 Revised per City 07-17-25 Per City Review #3

DRAWN BY: A. Wiseman **DESIGNED BY:** A. Wiseman APPROVED BY: P. Williams

DATE: July 15, 2024

NFE JOB NO.

SCALE: 1'' = 40'

SHEET NO. **D601-07 SP-07** 

NOWAK & FRAUS ENGINEERS WWW.NOWAKFRAUS.COM

1. DEVELOPER SHALL SUBMIT A DETAILED EROSION CONTROL PLAN, COMPLETED APPLICATION AND CHECKLIST FORMS, PAY ALL FEES AND POST AN EROSION CONTROL PERFORMANCE

> 2502 Packard St. Ann Arbor, MI 48009

CLIENT

Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION Section 4 T. 3 South, R. 6 East City of Ann Arbor,

Soil Erosion & Drainage Areas Plan

#### LEGAL DESCRIPTION

WASHTENAW COUNTY RECORDS.

OUTLOT A, SMOKLER HUTZEL SUBDIVISION OF PART OF THE SOUTHEAST 1/4 OF SECTION 4 AND PART OF THE NORTHEAST 1/4 OF SECTION 9, TOWN 3 SOUTH, RANGE 6 EAST, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN, ACCORDING TO THE PLAT THEREOF AS RECORDED IN LIBER 17 OF PLATS, PAGES 41, 42 AND 43,

LAND IN THE CITY OF ANN ARBOR, WASHTENAW COUNTY, MI, DESCRIBED AS FOLLOWS:

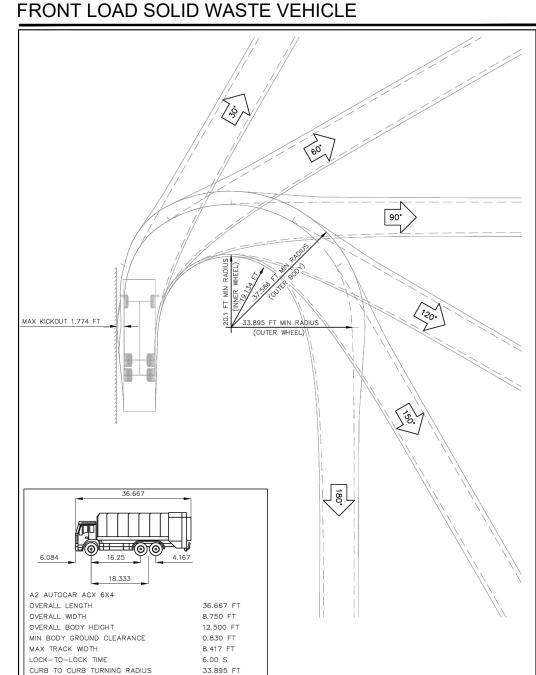
PARCEL NO: 09-12-04-403-010 COMMONLY KNOWN AS: 2502-2568 PACKARD ROAD, ANN ARBOR, MI

### **SOLID WASTE GENERAL NOTES:**

- MAINTAIN A CLEAR SPACE DIRECTLY IN FRONT OF THE SOLID WASTE ENCLOSURE. THE CLEAR SPACE SHALL BE A MINIMUM OF FIFTY (50) FEET LONG BY THE WIDTH OF THE INSIDE DIMENSION (I.D.) OF THE ENCLOSURE WALLS PLUS FOUR (4) FEET ON EACH SIDE. A MINIMUM VERTICAL CLEARANCE OF AT LEAST TWENTY-FIVE (25) FEET MUST BE PROVIDED ABOVE THIS AREA.
- INGRESS AND EGRESS ROUTES MUST BE DEVELOPED BASED ON SOLID WASTE SWEPT PATH REQUIREMENTS PER SD-SW-4. A MINIMUM HORIZONTAL CLEARANCE OF FOUR (4) FEET FROM THE EDGE OF THE SWEPT PATH AND A MINIMUM VERTICAL CLEARANCE OF AT LEAST FIFTEEN (15) FEET MUST BE PROVIDED ALONG THE ENTIRE SOLID WASTE COLLECTION ROUTE.
- PROVIDE TEN (10) FEET MINIMUM HORIZONTAL CLEARANCE FROM SOLID WASTE ENCLOSURE TO MAJOR ELECTRICAL EQUIPMENT, ABOVE GROUND UTILITY SERVICES, AND EDGE OF OVERHEAD OBSTRUCTIONS SUCH AS TREE BRANCHES, BALCONIES, AND OVERHANGS.
- IF FORWARD ACCESS TO THE PUBLIC STREET IS NOT AVAILABLE FOR THE SOLID WASTE VEHICLE, THE SITE DEVELOPMENT LAYOUT MUST ACCOMMODATE A TURN-AROUND LOCATION MEETING REQUIREMENTS WITHIN SOLID WASTE REFERENCE SPECIFIC TURN-AROUND DETAIL (SD-SW-5) AND ACCEPTABLE TO THE
- FOR SITES THAT CANNOT ACCOMMODATE A TURN-AROUND, THE FOLLOWING ADDITIONAL REQUIREMENTS MUST BE MET:
- 5.1. SOLID WASTE VEHICLES MUST BE ABLE TO SERVICE DUMPSTERS WITHOUT IMPEDING THE PUBLIC
- 5.2. THE COLLECTION LOCATION SHALL BE CLEARLY DELINEATED AND NOT HAVE A SLOPE GREATER THAN 2% IN ANY DIRECTION.
- 5.3. BOLLARDS OR ADEQUATE CLEAR SPACE MUST BE PROVIDED BEHIND THE LIFT POINT SO THE DUMPSTERS ARE NOT PUSHED INTO ANY BUILDING OR ACCESS ROUTE.
- 5.4. ALL SWEPT-PATH CLEARANCE AND VERTICAL CLEARANCE REQUIREMENTS PREVIOUSLY IDENTIFIED SHALL BE PROVIDED.
- 5.5. SOLID WASTE VEHICLE BACK-UP DISTANCES MUST BE LESS THAN 30' ALONG SERVICING ROUTE.
- GATES ON BIN ENCLOSURES SHALL OPEN A MINIMUM OF 120 DEGREES FROM THE CLOSED POSITION. THE GATES SHALL NOT IMPEDE ON THE REQUIRED BIN ENCLOSURE OPENING WIDTH, SHALL NOT BLOCK ADJACENT PARKING SPOTS, AND NOT BE IMPEDED BY ADJACENT CURBS OR LANDSCAPING.
- GATES SHALL BE DESIGNED TO BE FREE STANDING WITHOUT CENTER POLE DESIGN. IF CENTER POLE DESIGN IS NECESSARY, 12 INCHES SHALL BE ADDED TO THE MINIMUM INTERIOR WIDTH OF THE
- GATE DESIGN SHALL INCLUDE A RELIABLE MEANS TO SECURE THE DOOR IN BOTH THE OPEN AND
- THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF NO PARKING SIGNS ALONG THE SOLID WASTE INGRESS/EGRESS ROUTE TO ENSURE THE ROUTE REMAINS FREE OF VEHICLES.
- REFER TO ASSOCIATED STANDARD DETAILS SD-SW-1 AND SD-SW-2 FOR REQUIREMENTS ON SINGLE AND DOUBLE WIDE SOLID WASTE BIN ENCLOSURE LAYOUT AND DESIGN CRITERIA. THE CITY SHALL HAVE THE ABILITY TO MODIFY OR INTERPRET THESE DETAILS AS NECESSARY TO ACCOMMODATE THE CITY OR CITY CONTRACTOR'S NEEDS FOR SOLID WASTE PICK-UP.
- SOLID WASTE EQUIPMENT ACCESS ROADS AND SERVICE AREA SURFACES SHALL BE DESIGNED AND MAINTAINED TO SUPPORT THE IMPOSED LOADS OF COLLECTION VEHICLES WEIGHING UP TO 66,000 LBS GROSS VEHICLE WEIGHT (GVW) AND SHALL BE PROVIDED WITH AN APPROVED SURFACE SO AS TO PROVIDE ALL WEATHER DRIVING CAPABILITIES. PROPERTY OWNER SHALL BE RESPONSIBLE FOR ALL
- FOR SITES THAT CANNOT ACCOMMODATE A STANDARD DUMPSTER ENCLOSURE. THE DUMPSTERS MAY BE ROLLED OUT OF A BUILDING OR ALTERNATE ENCLOSURE BY THE PROPERTY OWNER TO AN APPROVED
- SOLID WASTE COLLECTION LOCATIONS MUST BE LOCATED WITHIN THE BOUNDARIES OF THE PROPERTY UNLESS AN APPROPRIATE EASEMENT IS OBTAINED.

# SWEPT PATH REQUIREMENTS FOR

SNOW AND ICE REMOVAL REQUIRED FOR SAFE ACCESS.



### **REFUSE COLLECTION NOTE:**

DRIVERS OF REFUSE TRUCKS WILL NOT LEAVE THEIR VEHICLES TO MOVE OR SERVICE THE RECYCLE DUMPSTERS. AN ON-SITE BUILDING MAINTENANCE PERSON SHALL BE RESPONSIBLE FOR OPENING / CLOSING GATES AND

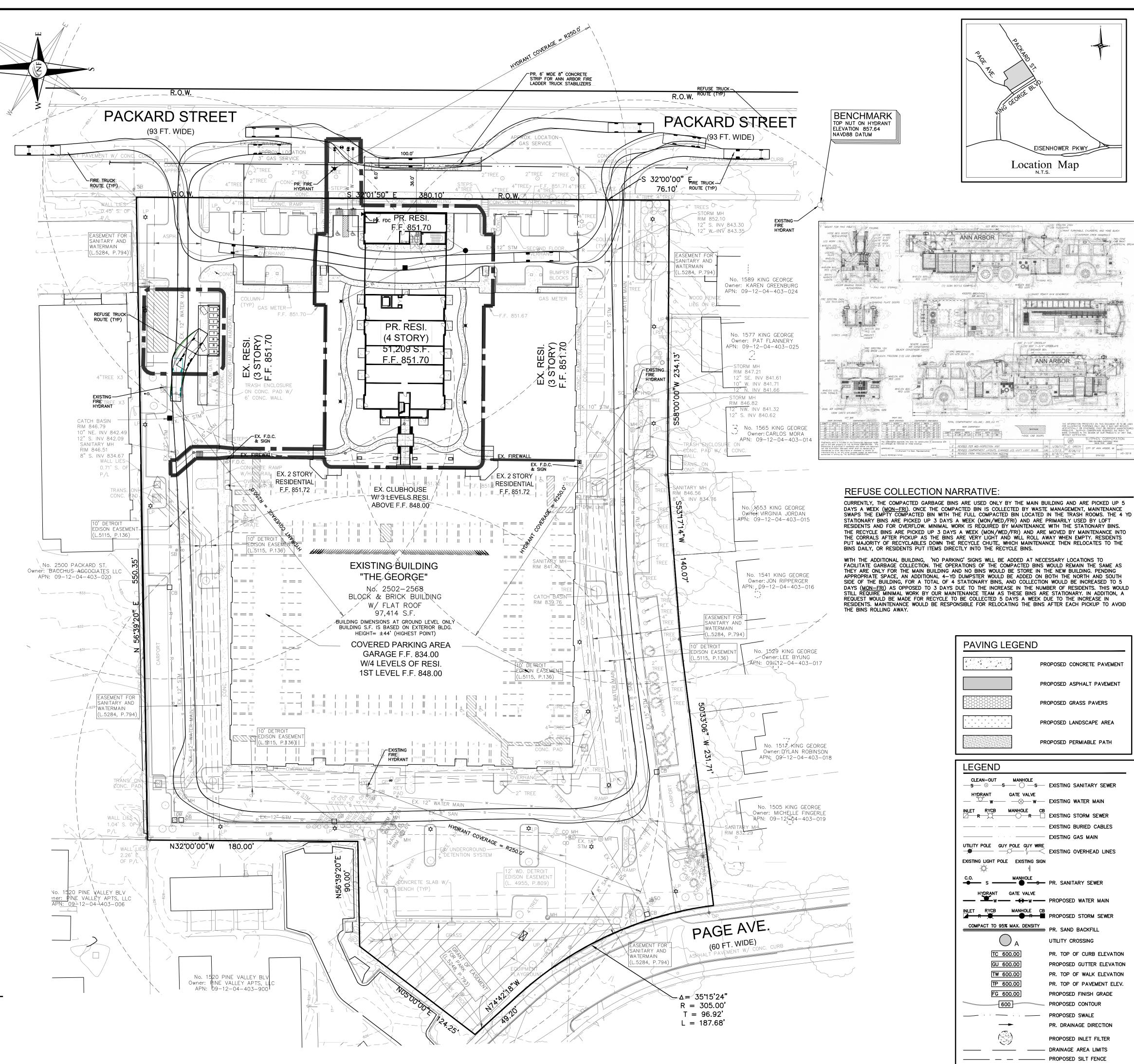
MOVING THE RECYCLABLE DUMPSTERS FOR REFUSE TRUCK COLLECTION. RECYCLE PICKUP SERVICE IS MONDAY THROUGH FRIDAY.

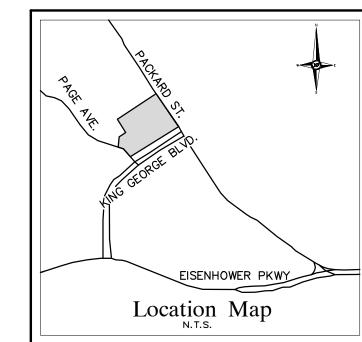
THE PROPERTY OWNER IS RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL REQUIRED FOR SAFE ACCESS TO THE ENCLOSURES AND SERVICING ALL SOLID WASTE CONTAINERS. FIRE DEPARTMENT NOTES

FIRE PROTECTION ALARM AND DETECTION SYSTEMS SHALL BE IN COMPLIANCE WITH ALL APPLICABLE CODES ADOPTED KNOX BOX SHALL BE MOUNTED ON AN APPROVED EXTERIOR LOCATION FOR EMERGENCY ACCESS TO BUILDING AND

- CONSTRUCTION SEQUENCING: . HYDRANTS MUST BE IN SERVICE AND APPROVED DURING CONSTRUCTION.
- . HYDRANTS PROVIDING PROTECTION COVERAGE FOR THE BUILDING MUST BE IN SERVICE AND APPROVED BY BOTH
- THE FIRE DEPARTMENT AND ENGINEERING BEFORE FIRE DEPARTMENT WILL SUPPORT PERMIT ISSUANCE FOR NEW CONSTRUCTION PHASE AND BEFORE COMBUSTIBLE MATERIAL ARE PLACED ON THE JOB SITE.
- 5. STORAGE AREA FOR CONSTRUCTION MATERIALS MUST BE APPROVED SO AS NOT TO INTERFERE WITH FIRE/EMERGENCY SITE ACCESS.

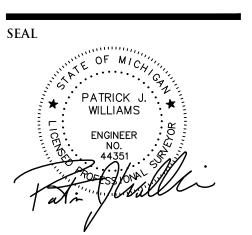
  4. IF SITE ACCESS IS TO BE RESTRICTED DURING CONSTRUCTION, KNOX BOX LOCK FOR GATES IS TO BE PROVIDED.







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



PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Tel: 732.415-7171

PROJECT LOCATION Section 4 7. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

Fire Protection & Refuse

Truck Maneuvering Plan

PAVING LEGEND PROPOSED CONCRETE PAVEMENT PROPOSED ASPHALT PAVEMENT PROPOSED GRASS PAVERS PROPOSED LANDSCAPE AREA PROPOSED PERMIABLE PATH

**LEGEND** CLEAN-OUT MANHOLE

S O S S EXISTING SANITARY SEWER GATE VALVE - ── w--- —⊗--- w--- EXISTING WATER MAIN INLET RYCB MANHOLE CB R EXISTING STORM SEWER EXISTING BURIED CABLES EXISTING GAS MAIN UTILITY POLE GUY WIRE EXISTING OVERHEAD LINES EXISTING LIGHT POLE EXISTING SIGN HYDRANT GATE VALVE ── ── w ── PROPOSED WATER MAIN INLET RYCB MANHOLE CB

R PROPOSED STORM SEWER COMPACT TO 95% MAX. DENSITY PR. SAND BACKFILL UTILITY CROSSING TC 600.00 PR. TOP OF CURB ELEVATION PROPOSED GUTTER ELEVATION GU 600.00 TW 600.00 PR. TOP OF WALK ELEVATION PR. TOP OF PAVEMENT ELEV. TP 600.00 PROPOSED FINISH GRADE FG 600.00 PROPOSED CONTOUR PROPOSED SWALE . \_\_\_\_ . PR. DRAINAGE DIRECTION PROPOSED INLET FILTER

\_\_\_\_

----- DRAINAGE AREA LIMITS

PROPOSED SILT FENCE

LIMITS OF SOIL DISRUPTION

Know what's **below** Call before you dig.

ISSUED FOR / REVISED 08-15-24 Issued for City Review 10-29-24 Revised per Client 11-18-24 Revised per City 02-04-25 Revised per City 03-10-25 Revised per City 07-17-25 Per City Review #3 DRAWN BY: A. Wiseman **DESIGNED BY:** A. Wiseman APPROVED BY: P. Williams DATE: July 15, 2024 SCALE: 1'' = 40'NFE JOB NO. SHEET NO. **SP-08 D601-07** 

I = 170 n (Conc.) 0.		15 Minutes 170 / (T+23) 0.013 0.011		170 / (T+23) 0.013		Manning'	Storm Ev 's Rougl	ration ent Intensit nness Coeffi nness Coeffi	icient		City of		•	htenaw ver Calc	•	Michigar	n			Project None Proje	ame:	D601 The Georg Ann Arbor November 07/17/25	•	
rom truc.	To Struc.	Drainage Area	Drainage Area	Runoff		Total Area	Time of Concentration	Rainfall Intensity	Actual Discharge	Pipe Size	Pipe Slope	Length	Flow Full Velocity	Time of Flow	Capacity	H. G. Elev. I	Lower End	H. G. Slope	Theoretical Velocity	Ground Elevation	Change in Elevation	Invert Elev. Upper End	Invert Elev	
No. 16a	No. 16		(Acres) 0.20	(C) 0.30	(C * A) (S	Sum C * A) 0.060	) (Minutes) 15.00	(Inches/Hr.) 4.474	(CFS) 0.268	(Inches) 8	( % Slope) 0.54	(Feet) 62	(Ft / Sec) 2.544	(Minutes) 0.41	(CFS) 0.89	(Feet) 845.13	(Feet) ( 845.10	% Slope) 0.049	0.77	(Upper) 850.50	(Feet) 0.33	(Feet) 844.90	(Feet) 844.57	
16	15a	A	0.11	0.84	0.092	0.152	15.41	4.426	0.675	12	0.33	54	2.602	0.35	2.04	844.91	844.89	0.036	0.86	850.25	0.18	844.27	844.09	
15b	15a	Α	0.30	0.84	0.252	0.252	15.00	4.474	1.127	10	1.00	18	4.017	0.07	2.19	846.53	846.49	0.265	2.07	851.70	0.18	846.00	845.82	
15c	15a	Α	0.20	0.30	0.060	0.060	15.00	4.474	0.268	8	0.54	62	2.544	0.41	0.89	845.13	845.10	0.049	0.77	850.50	0.33	844.90	844.57	
15a	15	Α	0.00	0.84	0.000	0.464	15.75	4.387	2.037	12	0.33	127	2.606	0.81	2.05	844.89	844.47	0.327	2.59	850.75	0.42	844.09	843.67	
15	14	Α	0.00	0.84	0.000	0.464	16.56	4.297	1.995	12	0.74	135	3.902	0.58	3.06	843.80	843.38	0.314	2.54	852.30	1.00	843.58	842.58	
4a	14	С	0.36	0.84	0.302	0.302	15.00	4.474	1.353	10	1.00	31	4.017	0.13	2.19	843.47	843.36	0.381	2.48	852.00	0.31	843.00	842.69	
14	13	В	0.00	0.84	0.000	0.767	17.14	4.235	3.247	12	1.44	24	5.444	0.07	4.28	843.13	842.93	0.831	4.13	847.68	0.35	842.48	842.13	
13	12	В	0.28	0.84	0.235	1.002	17.21	4.227	4.236	12	4.00	142	9.073	0.26	7.13	838.21	836.20	1.413	5.39	846.60	5.68	841.08	835.40	
l2a	12	Е	0.85	0.84	0.714	0.714	15.00	4.474	3.194	12	1.00	52	4.536	0.19	3.56	836.70	836.28	0.804	4.07	843.00	0.52	836.00	835.48	
12	11	D	0.33	0.84	0.277	1.993	17.48	4.200	8.372	15	4.36	156	10.991	0.24	13.49	832.02	829.40	1.680	6.82	839.70	6.80	835.20	828.40	
11	9	F	0.36	0.84	0.302	2.296	17.71	4.176	9.586	15	3.00	73	9.117	0.13	11.19	828.72	827.11	2.202	7.81	832.90	2.19	828.30	826.11	
0	9	G	0.48	0.84	0.403	0.403	15.00	4.474	1.804	12	1.00	75	4.536	0.28	3.56	826.44	826.25	0.256	2.30	830.40	0.75	826.20	825.45	
9	8	-	0.00	0.84	0.000	2.699	17.85	4.162	11.233	18	1.50	21	7.280	0.05	12.87	826.18	825.94	1.143	6.36	832.45	0.32	825.05	824.74	
8	96"	-	0.00	0.84	0.000	2.699	17.89	4.157	11.219	18	1.50	8	7.280	0.02	12.87	825.81	825.72	1.141	6.35	833.25	0.12	824.64	824.52	
'a	7	Н	0.36	0.84	0.302	0.302	15.00	4.474	1.353	10	1.00	55	4.017	0.23	2.19	844.73	844.52	0.381	2.48	852.00	0.55	844.40	843.85	
7	6	I	0.30	0.84	0.252	0.554	15.23	4.447	2.465	12	4.35	145	9.456	0.26	7.43	838.09	837.40	0.479	3.14	847.10	6.30	842.90	836.60	
а	6	J	0.86	0.84	0.722	0.722	15.00	4.474	3.232	12	1.00	55	4.536	0.20	3.56	838.05	837.60	0.823	4.11	843.50	0.55	837.35	836.80	
3	5a	K	0.32	0.84	0.269	1.546	15.48	4.417	6.828	12	4.59	200	9.719	0.34	7.63	835.16	827.82	3.672	8.69	840.80	9.18	836.20	827.02	
а 5	5 1	- I	0.00 0.35	0.84 0.84	0.000 0.294	1.546 1.840	15.83 15.83	4.378 4.378	6.767 8.055	15 15	2.00 2.00	5 139	7.444 7.444	0.01 0.31	9.14 9.14	827.77 827.10	827.72 824.94	1.097 1.555	5.51 6.56	831.50 831.50	0.10 2.78	826.82 826.72	826.72 823.94	
, 4	3	M	0.83	0.84	0.697	2.537	16.14	4.344	11.019	18	1.20	49	6.512	0.13	11.51	824.89	824.35	1.100	6.24	831.15	0.59	823.74	823.15	
3	96"	-	0.00	0.84	0.000	2.537	16.26	4.330	10.984	18	1.20	6	6.512	0.02	11.51	824.24	824.18	1.093	6.22	832.25	0.07	823.05	822.98	
6"	2	-	0.00	0.84	0.000	5.236	15.00	4.474	23.422	24	1.20	8	7.888	0.02	24.78	823.09	823.00	1.072	7.46	833.60	0.10	821.50	821.40	
2	1	-	0.00	0.84	0.000	5.236	15.02	4.472	23.412	24	1.27	55	8.115	0.11	25.49	822.79	822.20	1.071	7.45	832.75	0.70	821.30	820.60	
ATE	D SAN	ITARY C	ALCULA	TIONS PE	R THE GE	ORGE 2	DEVELOPME	ENT AREA																
IIT A	RY SE	WER B	ASIS OF	DESIGN																				
	Condit																							
ing F actor	<u>lealth Cl</u> =	<u> </u>		1	.00 Units per 4	500 SF																		
•				5,652.	00 SF * (1.00	Units / 4,500	SF) =	1.26 Unit	s															
ng A actor	partmer -	<u>ıts</u>		0	60 nor linit																			
Cloi	_				.60 per Unit 00 (91 Units*0	.60)	=	174.60 Unit	s															
Exis	ting Unit	s:					=	175.86 Uni	ts															
		low Data	_																					
		(Total Units						563 Peo	-															
ge Flo Facto			=					0.087 CFS 3.95	•															
Flow			=	:				0.34 CFS	;															
Gen	erated:		=	0.0	)87 CFS * 646	,272 (Gallon:	s/Day)/CFS =	56,274 GPE	) - Average															

Peak Factor =

Average Flow:

Peak Factor:

Peak Flow:

Units =

Units =

Unit Factor =

Average Flow

Peak Factor

Peak Flow

Waste Generated:

Peak Factor =

Average Flow:

Peak Factor:

Peak Flow:

Available Capacity

Available Capacity

Proposed Retail Unit Factor =

Proposed Apartments

Total Proposed Units:

Total Existing and Proposed Units:

Proposed Sanitary Flow Data:

Equivalent Population (Total Units\*3.2)

3.93

0.37

Total Existing Units:

Proposed Conditions:

0.37

18 + (# of Persons/1000) ^ 0.50 =

REUs Health Club (sf) REUs Total REUs Total Population

0.854 CFS

0.76 Units

27.60 Units

654 People

0.101 CFS

0.40 CFS

255,624 GPD - Peak

0.854 CFS

EXISTING 96" CMP DETENTION TRENCH CROSS SECTION

EXISTING

3.91

= 28.36 Units

= 175.86 Units

= 204.22 Units

4 + (# of Persons/1000) ^ 0.50

0.48 Units per 1000 SF

0.60 per Unit

46.00 (46 Units\*0.60)

8 In. Dia. @

1,593.00 SF \* (0.48 Units / 1,000 SF) =

0.101 CFS \* 646,272 (Gallons/Day)/CFS = 0.396 CFS \* 646,272 (Gallons/Day)/CFS =

18 + (# of Persons/1000) ^ 0.50 =

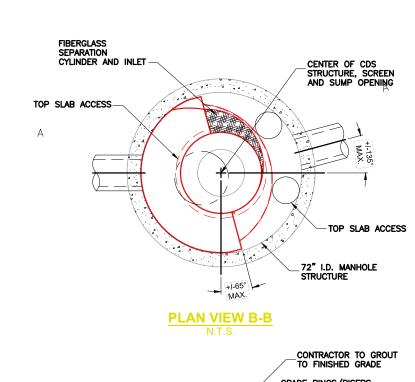
Retail (sf) REUs Health Club (sf) REUs Total REUs Total Population

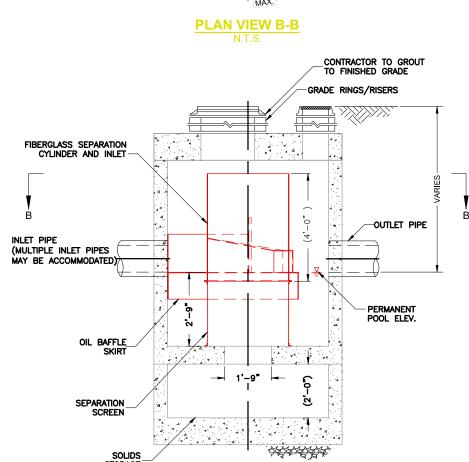
0.50 % =

4 + (# of Persons/1000) ^ 0.50

Washtenaw County			
Storm Water Managemer	nt Calculations - 10	00 Year Storm	
Determine Site Runoff Coef	ficient:		
Proposed Land Use:	Runoff Coefficient:	Drainage Area:	
Pavement	0.95	2.830	Acres
Building	0.95	2.043	Acres
Landscape / Open Space:	0.30	1.647	Acres
Total Acreage:		6.520	Acres
Weighted Runoff Coefficient "C"	Factor =	0.786	
Detention Calculation - Was	htenaw County Met	thod	
(100 Year Storm Event - Wit	h Outlet (Orifice)		
Contributing Acreage:		6.52	Acres
Allowable Outflow, Q <sub>a</sub> :		0.150	CFS / Acre
Runoff Coefficient, C:		0.786	Imperviousness
Maximum Allowable Outflow, Qo:		0.191	CFS / (Acre * Imperv
Ts Storage Time (100 Year):		207.431	Minutes
Vs Storage Volume (100 Year):		13,141.44	CFS / (Acre * Imper
Vt Total Volume (100 Year):		67,329.53	Cubic Feet
Volume Required:		67,329.53	Cubic Feet
Determine Bank Full Flood	Volume Calculation		
Formula: Bank Flood Volume, Vt, <sub>bf</sub>	= 8,170 x A x C		
Contributing Acreage:		6.52	Acres
Runoff Coefficient, C:		0.786	Imperviousness
Volume Vt, <sub>bf</sub> Required:		41,859	Cubic Feet
Determine First Flush Volu	ne Calculation		
Formula: First Flush Volume: 1,815	xAxC		
Contributing Acreage:		6.52	Acres
Runoff Coefficient, C:		0.786	Imperviousness
Volume Vt, <sub>ff</sub> Required:		9,299	Cubic Feet
Proposed Underground De	tention Volume Pro	vided in 96" Perf	orated CMP:
Detention Volume Data:	Storage Elevation:	829.50	
	Base Elevation:	821.50	

Required Average Release Rate: Qave	0.108	CFS
Average Head; h(ave)	0.89	Feet
Required Outlet Size, A:	0.0229	Square Feet
Required No. OF 1" Diameter Holes:	4.21	Hole(s)
Provided No. OF 1" Diameter Holes:	4	Hole(s) at outlet
Actual Average Release Rate; Qave(a)	0.102	CFS
Actual Holding Time; Tff	25.2	Hours
Formula: Washtenaw County Storm Water Managem	nent Program - 24 Hour Release	
Qave = V(t,ff) / 86,400* sec	h(ave) = (2/3) x (Zff -Zc	outlet)
A = Qave / (0.62 x (2gh(ave))^0.5)	Qave(a) = 0.62 x A x (	2gh(ave))^0.5
Tff = V(t,ff) / Qave(a)		
Determine Outlet For Bank Full Flood Vo	olume (Maintain Volume	for 36-48 Hou
Required Average Release Rate; Qave(req)	0.613	CFS
Average Head; h(ave)	3.64	Feet
Actual Average Release Rate: Qave(a)	0.209	Square Feet
Average Head between Zbf and Zff; h[ave]	2.31	Feet
Required Outlet Size, A:	0.0535	Square Feet
Required No. OF 1" Diameter Holes:	9.81	Hole(s)
Provided No. OF 1" Diameter Holes:	10	Hole(s) at outlet
Actual Average Release Rate; Qave[a]	0.791	CFS
Actual Holding Time; T	36.7	Hours
Formula: Washtenaw County Storm Water Managem	nent Program	
Qave(req) =(V(t,bf) - V(t,ff)) / (40 - Tff)	h(ave) = (Zff - Zoutlet)	+ (2/3) x (Zbf - Zff)
A = (Qave(req)-Qave(a))/(0.62 x (2gh(ave))^0.5)	Qave(a) = 0.62	x A x (2gh(ave))^0.5
h[ave] = (2/3) x (Zbf - Zff)	T = Tff + ((Vbf - Vff) / C	Qave[a])
Qave[a] = Qave(a) + 0.62 x A x (2gh[ave])^0.5		
Determine Outlet For 100 Year Flood Vo	lume	
Peak Flow Thruff and bf orifice; Qpeak	0.793	CFS
Full Allowable Peak Release Rate; Qa	0.978	CFS
Rmaining Allowable Release Rate; Qr	0.185	CFS
Required Outlet Size, A:	0.021	Square Feet
Required No. OF 1" Diameter Holes:	3.88	Hole(s)
Provided No. OF 1" Diameter Holes:	4	Hole(s) at outlet
Formula: Washtenaw County Storm Water Managem	nent Program	
Qpeak = 0.62 x A x (2g(Z10-Zoutlet))^0.5 + 0.62 x A x	(2g(Z10-Zff))^0.5	
Qr = Qa - Qpeak		
A = Qr / (0.62 x (2g(Z10-Zbf))^0.5)		





**ELEVATION A-A** 

WATER QUALITY CONTROL STRUCTURE

CONTECH #CDS3020-6-C OR APPROVED EQUAL

EXISTING

DRAWN BY: P. Wlliams 1'' = 40'NFE JOB NO. SHEET NO.

**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

PATRICK J

PROJECT

CLIENT

Contact: Ken Gold

The George

Somerset Development 101 Crawfords Corner Rd.

Holmdel, NJ 07733

Tel: 732.415-7171

PROJECT LOCATION

Part of the 1/4 of

Calculations and

Storm Detention Details

Know what's **below Call** before you dig.

DATE ISSUED / REVISED

08-15-24 Issued for City Review

T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County,

Section 4

Michigan

SHEET

CONTINUOUS SILICONE SEALANT ALONG BOTH SIDES AND BOTTOM EJIW COVER 1040-A RIM 833.00 PROPOSED 24" STORM DRAIN SECTION DETAIL 1/4" STEEL PLATE "WEIR"-24" INV. 821.30 CONTINUOUS -SEALANT — 3/8" DIA. STAINLESS STEEL ANCHOR BOLT

¼" STEEL PLATE WEIR TO — BE WATERTIGHT ALL WELDS JOINING INDIVIDUAL PLATES TO BE CONTINUOUS 100 YEAR STORAGE ELEVATION 829.36 100-YEAR STORAGE (4) 1-1/16" HOLES AT ELEVATION 826.29 BANK FULL (4) 1–1/16" HOLES AT ELEVATION 822.84 FIRST FLUSH
(4) 1-1/16" HOLES AT
BOTTOM OF STORAGE
ELEVATION 821.50 4" PVC TEE WITH CAP -FOR CLEANING 4" PVC CAP WITH -

NOTE: CONTRACTOR TO PERMANENTLY AFFIX PVC TEE TO STEEL PLATE

SECTION A-A

**EXISTING** 6' DIA. OUTLET CONTROL STRUCTURE INSET DETAIL

A. Wiseman **DESIGNED BY:** A. Wiseman APPROVED BY:

DATE: March 11, 2022 SCALE:

**SP-09 D601** 

1,107.00 Total Linear Feet of Pipe Elevation Incremental Volume Cumulative Volume (Inc. 30% of stone volume) 822.50 6,465 14,922 823.50

825.50 9,786 34,096 826.50 43,881 827.50 9,387 53,269 828.50 8,487 61,756 829.50 6,465 68,221

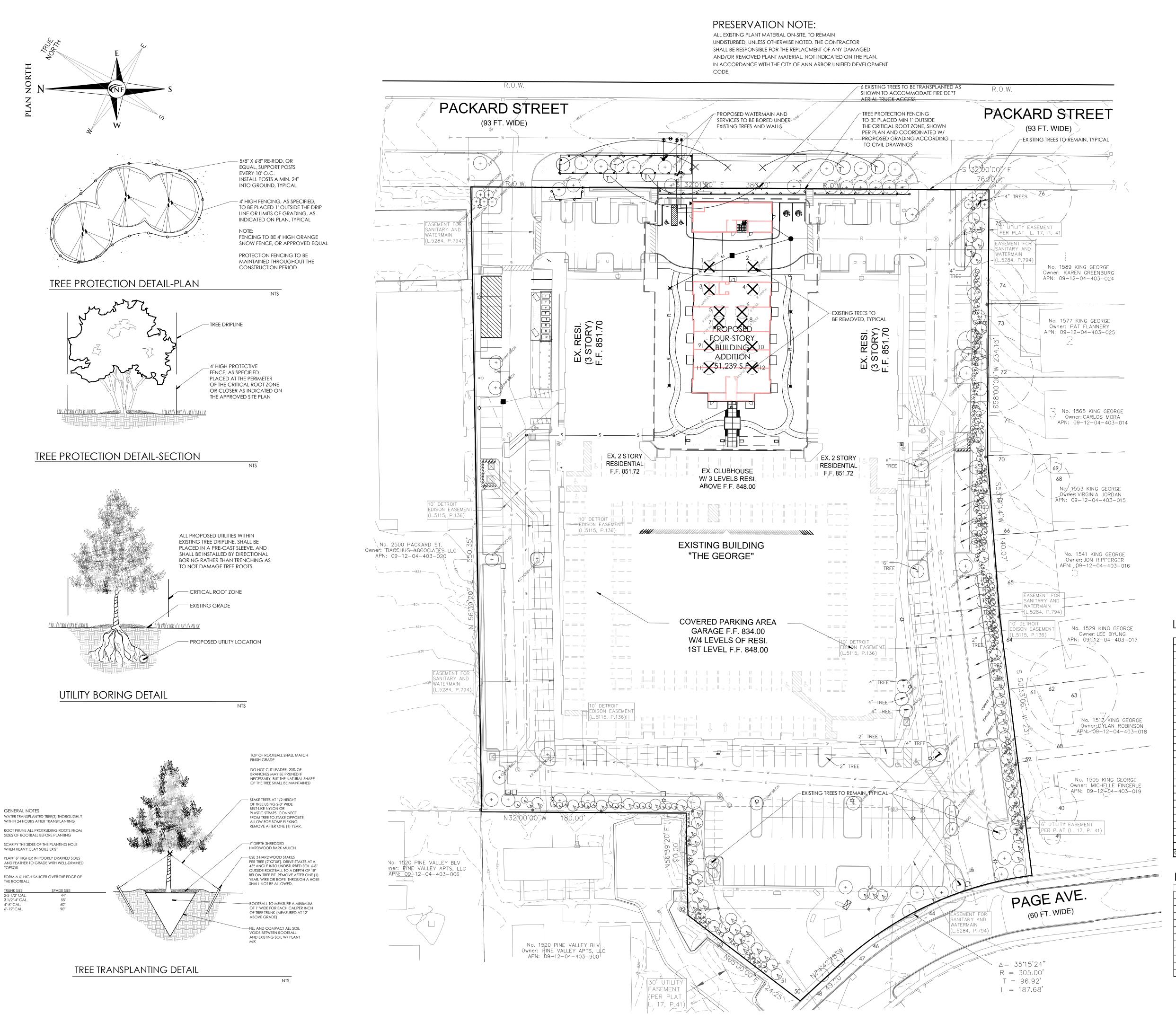
71,874 /olume Provided: **Cubic Feet** Determine Elevation of First Flush & Bank Full Flood Volumes

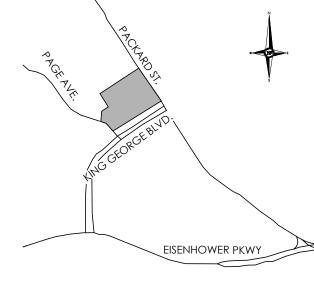
3,653

**CUBIC FEET** Elevation (Z) 9,299 822.84 is provided at V(t,bf) =41,859 826.29 is provided at 67,330  $V(t,_{100}) =$ is provided at 829.36

71,874

11-18-24 Revised per City 02-04-25 Revised per City 03-10-25 Revised per City 07-17-25 Per City Review #3





# LOCATION MAP

# LEGEND:

TREES TO BE REMOVED



TREE PROTECTION FENCING



### TREE REMOVAL SUMMARY:

TOTAL TREES SURVEYED: TOTAL TREES TRANSPLANTED (ROW): 6 TOTAL LANDMARK TREES: TOTAL NON-LANDMARK TREES: TOTAL LANDMARK REMOVALS: TOTAL NON-LANDMARK REMOVALS: 12

### GENERAL TREE PROTECTION NOTES

1. 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. 2. ALL UNDERSTORY VEGETATION WITHIN THE LIMITS OF PROTECTIVE FENCING SHALL BE PRESERVED.

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 4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE 4. WHERE GROUPINGS OF TREES ARE TO REMAIN, TREE FENCING SHALL BE PLACED AT THE LIMITS OF GRADING LINE.

5. DURING CONSTRUCTION, NO PERSON SHALL ATTACH ANY DEVICE OR WIRE TO ANY TREE, SCHEDULED TO REMAIN. 6. ALL UTILITY SERVICE REQUESTS MUST INCLUDE NOTIFICATION TO THE INSTALLER THAT PROTECTED TREES MUST BE AVOIDED. ALL TRENCHING SHALL 7. SWALES SHALL BE ROUTED TO AVOID THE AREA WITHIN THE DRIP LINES OF 8. TREES LOCATED ON ADJACENT PROPERTIES THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITIES MUST BE PROTECTED. 9. ROOT ZONES OF PROTECTED TREES SHOULD BE SURROUNDED WITH RIGIDLY 10. THE PARKING OF IDLE AND RUNNING EQUIPMENT SHALL BE PROHIBITED UNDER TH DRIP LINE OF PROTECTED TREES. 1. THE STRIPPING OF TOPSOIL FROM AROUND PROTECTED TREES SHALL BE PROHIBITED. 12. ALL TREES TO BE REMOVED SHALL BE CUT AWAY FROM TREES TO REAMIN.
13. THE GRUBBING OF UNDERSTORY VEGETATION WITHIN CONSTRUCTION AREAS SHOULD BE CLEARED BY CUTTING VEGETATION AT THE GROUND WITH A CHAIN SAW OR MINIMALLY WITH A HYDRO-AXE. 14. THE CONTRACTOR IS RESPONSIBLE FOR THE REPLACEMENT PER ORDINANCE GUIDELINES, FOR THE DAMAGE OR REMOVAL OF ANY TREE DESIGNATED TO REMAIN.

15. TREES TO BE REMOVED SHALL BE FIELD VERIFIED, EVALUATED AND FLAGGED FOR REMOVAL, BY THE LANDSCAPE ARCHITECT OR FORESTER, ONLY AS DIRECTED BY THE OWNER OR OWNERS REPRESENTATIVE.

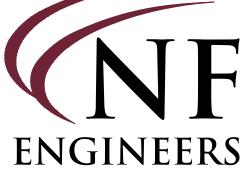
### LANDMARK TREE SUMMARY

Tree #		Size (dbh)	Species	Remove/Sav
32	0	32"	American Elm	Save
33	0	18"	Norway Maple	Save
40	0	24"	Spruce	Save
41	0	10",10",10"	Crabapple	Save
44		15"	Honey Locust	Save
46		16"	Honey Locust	Save
47		14"	Honey Locust	Save
48		13"	Honey Locust	Save
49		12"	Honey Locust	Save
50		14"	Spruce	Save
51		12"	Spruce	Save
59	0	7.5"	Pear	Save
60	0	12"	Pear	Save
61	0	8"	Apple	Save
62	0	8"	Cherry	Save
63	0	25"	Silver Maple	Save
64	0	20"	Catalpa	Save
65	0	16"	Crabapple	Save
66	0	43"	Cottonwood	Save
67	0	20"	Honey Locust	Save
68	0	20"	Fir	Save
69	0	10",10",12"	Crabapple	Save
70	0	48"	Silver Maple	Save
71	0	14"	Blue Spruce	Save
72	0	41"	Silver Maple	Save
73	0	16"	Norway Maple	Save
74	0	22",26"	Silver Maple	Save
75	0	16"	Spruce	Save
76	0	42"	Silver Maple	Save
= REPR	ESEN	ITS OFFSITE		

# NON-LANDMARK TREE SUMMARY

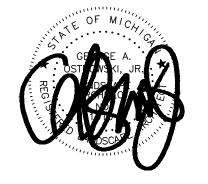
1 3" Red Maple

2	3"	Red Maple	Remove
3	3"	Red Maple	Remove
4	3"	Red Maple	Remove
5	4"	Flowering Pear	Remove
6	4"	Flowering Pear	Remove
7	4"	Flowering Pear	Remove
8	4"	Flowering Pear	Remove
9	3"	Red Maple	Remove
10	3"	Red Maple	Remove
11	3"	Red Maple	Remove
12	3"	Red Maple	Remove



**CIVIL ENGINEERS** LAND SURVEYORS LAND PLANNERS

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



PROJECT

The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT

Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION

Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

SHEET

Tree Preservation Plan



REVISIONS	
2024/08/15 ISSUED FOR CITY REVIEW	
2024/11/05 REVISED PER CITY REVIEW	
2024/11/18 REVISED PER CITY REVIEW	
2025/03/10 REVISED PER CITY REVIEW	
2025/04/22 REVISED PER FIRE REVIEW	_

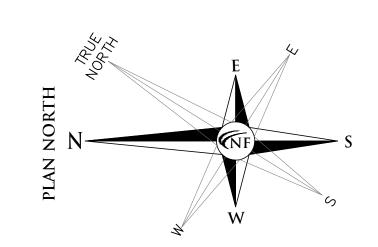
2025/07/17 CITY REVIEW #3

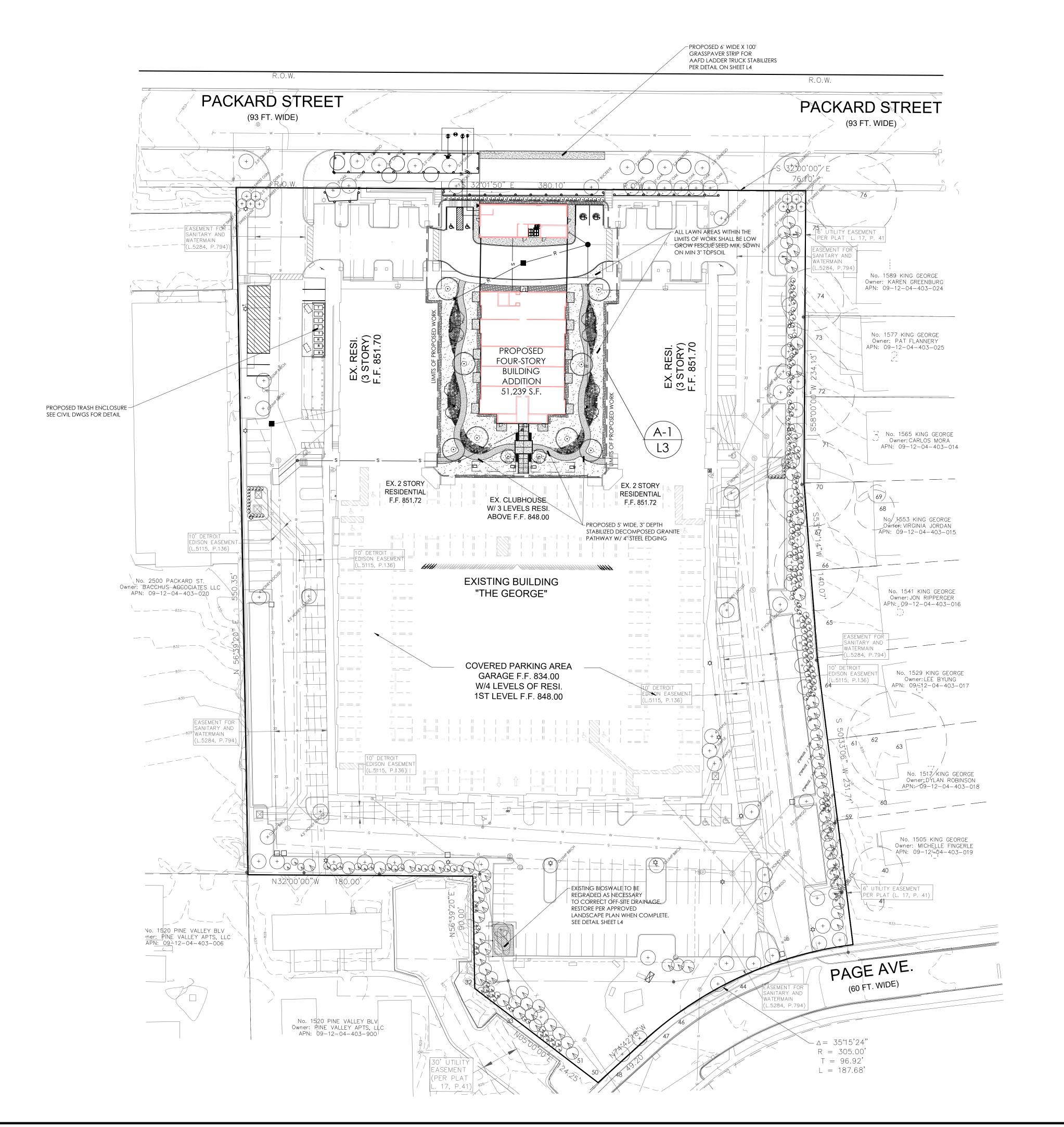
DRAWN BY: G. Ostrowski

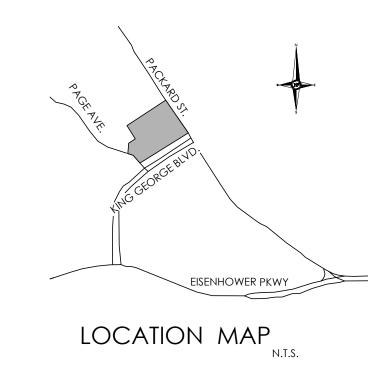
**DESIGNED BY:** G. Ostrowski APPROVED BY: G. Ostrowski DATE:

07/15/2024 SCALE: 1'' = 40'

NFE JOB NO.







NOTE:

PLANT LIST

SEE SHEET L3 FOR ENLARGED

PLANTING PLAN AND PROPOSED

**ENGINEERS** 

**CIVIL ENGINEERS** LAND SURVEYORS LAND PLANNERS

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CLIENT

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Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION

Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

SHEET

Overall Landscape Plan



Know what's **below Call** before you dig.

**REVISIONS** 2024/08/15 ISSUED FOR CITY REVIEW 2024/11/05 REVISED PER CITY REVIEW 2024/11/18 REVISED PER CITY REVIEW 2025/03/10 REVISED PER CITY REVIEW

2025/04/22 REVISED PER FIRE REVIEW 2025/07/17 CITY REVIEW #3

DRAWN BY:

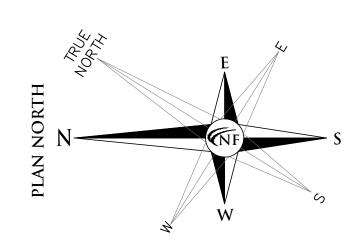
G. Ostrowski **DESIGNED BY:** 

G. Ostrowski APPROVED BY:

G. Ostrowski DATE: 07/15/2024

SCALE: 1'' = 40'

NFE JOB NO.

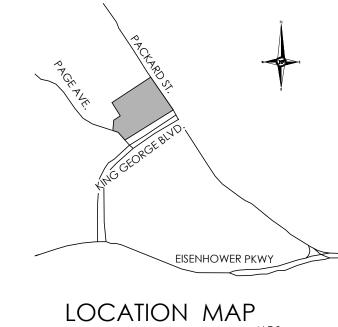


# NOTE:

ALL FERTILIZER APPLICATION BEYOND THE INITIAL TOPSOIL AND SEEDING SHALL BE A FERTILIZER WITH NO PHOSPHOROUS IN ACCORDANCE W/ ALL APPLICABLE ANN ARBOR ORDINANCES

### PLANT SCHEDULE

KEY	QTY	BOTANICAL/COMMON NAME	SIZE	SPACING	ROOT	COMMENT
TREES						
AL	8	Amelanchier laevis 'Snowcloud' Snowcloud Serviceberry	2.5-3" CAL	SEE PLAN	B&B	SINGLE STEM
СС	6	Cercis canadensis 'Forest Pansy' Forest Pansy Redbud	3" CAL	SEE PLAN	B&B	FULLY BRANCHED HEADS
SHRUBS						
ТО	40	Thuja occidentalis 'DeGroot's Spire' De Groot's Spire Arborvitae	5' HT	42" OC	B&B	WELL-ROOTED
GROUN	DCOVERS/F	PERENNIALS	•			
AC	140	Aquilegia 'Clementine Salmon Rose' Clementine Salmon Rose Columbine	1 GAL	18" OC	CONT	WELL-ROOTED
DF	76	<u>Dryopteris filix-mas</u> 'Undulata Robusta' Robust Male Fern	2 GAL	30" OC	CONT	WELL-ROOTED
НК	64	Hakonechloa macra Japanese Forest Grass	1 GAL	30" OC	CONT	WELL-ROOTED
НО	46	Hosta 'Krossa Regal' Krossa Regal Hosta	2 GAL	30" OC	CONT	WELL-ROOTED





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PROJECT

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CLIENT

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Contact: Ken Gold Tel: 732.415-7171

PROJECT LOCATION

Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

Detailed Landscape Plan



REVISIONS 2024/08/15 ISSUED FOR CITY REVIEW 2024/11/05 REVISED PER CITY REVIEW 2024/11/18 REVISED PER CITY REVIEW

2025/03/10 REVISED PER CITY REVIEW 2025/04/22 REVISED PER FIRE REVIEW

2025/07/17 CITY REVIEW #3

DRAWN BY:

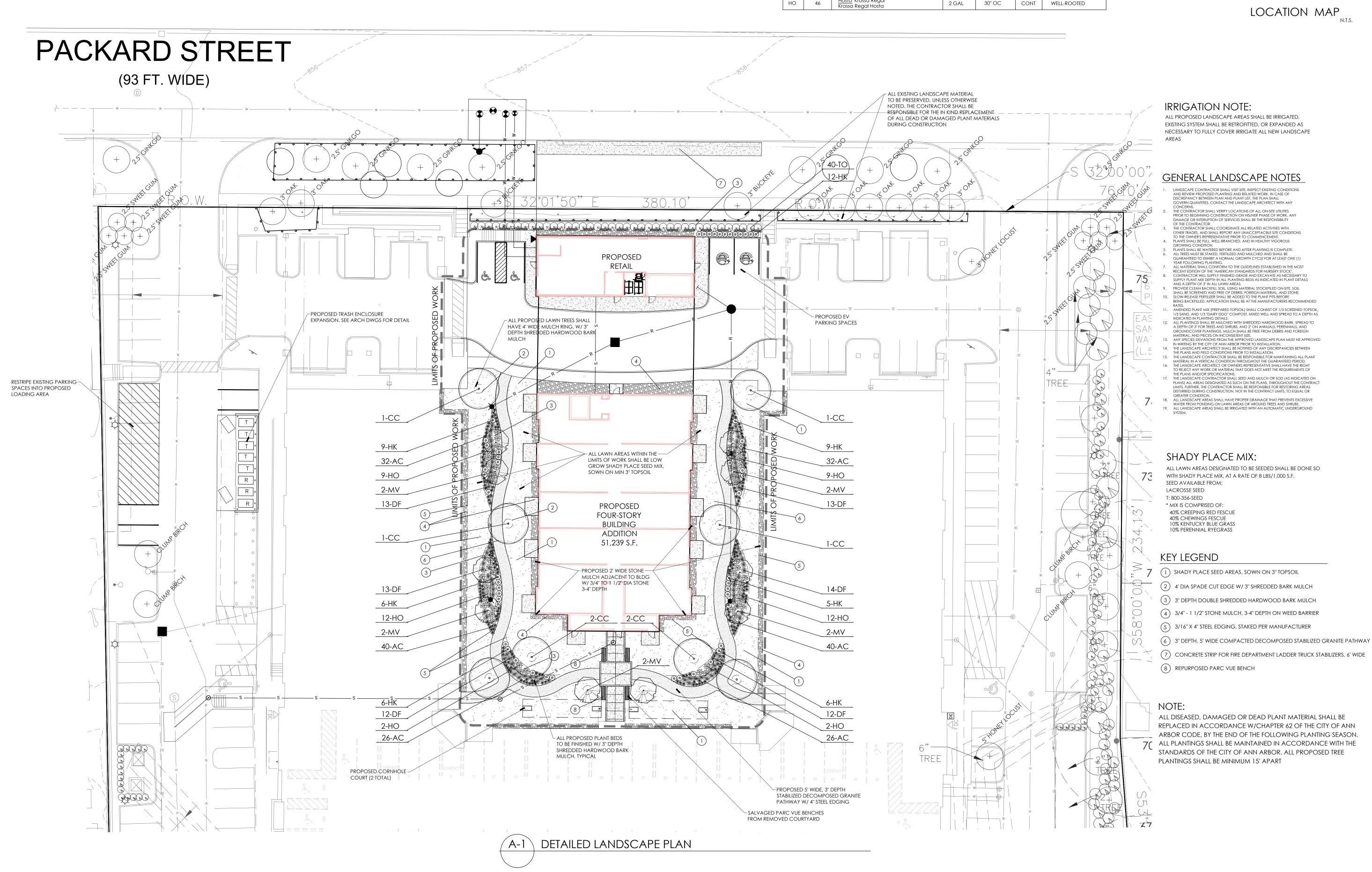
G. Ostrowski **DESIGNED BY:** G. Ostrowski

APPROVED BY: G. Ostrowski

DATE: 07/15/2024

SCALE: 1'' = 20'

NFE JOB NO.



### **DEMOLITION NOTES:**

- 1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID
- 3. ALL EXISTING IMPROVEMENTS, MATERIALS AND PLANT MATERIAL TO REMAIN WITHIN THE NEW CONSTRUCTION AREA SHALL BE PROPERLY AND ADEQUATELY PROTECTED FROM DAMAGE DURING THE DEMOLITION OPERATIONS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE TO THE ORIGINAL CONDITION ANY OF THESE EXISTING ITEMS THAT ARE DAMAGED OR DISTURBED IN ANY WAY.
- 4. ALL MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE CITY ENGINEER FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE CITY ENGINEER.
- 5. STREETS, SIDEWALKS AND ADJACENT PROPERTIES SHALL BE PROTECTED THROUGHOUT THE WORK AS REQUIRED BY LOCAL CODES AND REGULATIONS AND APPROVED BY THE
- 6. ALL MATERIAL SPECIFIED TO BE REMOVED SHALL BE DISPOSED OF OFF-SITE PER LOCAL CODES AND REGULATIONS. CONTRACTOR SHALL COORDINATE METHOD OF DISPOSAL WITH CITY ENGINEER PRIOR TO COMMENCEMENT OF WORK.
- 7. MATERIALS TO BE REUSED OR SALVAGED SHALL BE STORED IN AN AREA DESIGNATED BY THE OWNERS REPRESENTATIVE FOR THAT PURPOSE. ALL SALVAGED MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER.
- 8. DURING DEMOLITION OPERATIONS EVERY EFFORT SHALL BE MADE TO CONTROL DUST, PER CITY REQUIREMENTS.
- 9. TREES AND SHRUBS TO BE REMOVED WITHIN THE LIMITS OF WORK SHALL BE CLEARLY IDENTIFIED WITH BRIGHTLY COLORED RIBBON.
- 10. GRUBBING SHALL INCLUDE ALL WEEDS, SHRUBS, STUMPS AND ROOT SYSTEMS OF REMOVED PLANT MATERIAL, IRRIGATION PIPING AND ANY OTHER IRRIGATION MATERIALS WITHIN THE LIMITS OF DEMOLITION. GRUBBING SHALL BE TO THE DEPTHS BELOW PROPOSED IMPROVEMENTS INDICATED AS FOLLOWS: CONCRETE PAVING AND WALKWAYS-TOTAL DEPTH OF PAVING AND SUB-BASE: ASPHALT PAVING-TOTAL DEPTH OF PAVING AND SUB-BASE; LAWN AND OTHER PLANTINGS AREAS-REMOVE DEPTH REQUIRED OF STUMPS AND ROOTS OVER TWO (2) INCHES IN DIAMETER AND TURF.
- 11. PROTECT EXISTING TREES TO REMAIN PER TYPICAL TREE PROTECTION DETAIL.
- 12. STOCKPILED TOPSOIL SHALL BE STORED ON SITE AND REMAIN PROTECTED FROM CONTAMINATION PRIOR TO REDISTRIBUTION.
- 13. SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED TO INSTALL NEW SITE IMPROVEMENTS AND ADJUST GRADES WITHIN CITY STREETS. ALL WORK WITHIN CITY RIGHT OF WAY SHALL MEET CITY STANDARDS AND SPECIFICATIONS.
- 14. ARRANGE FOR APPLICABLE UTILITY COMPANY TO RELOCATE EXISTING CABLES, WIRES, PHONE LINES, ETC. ALONG WITH EDISON POWER LINES AS REQUIRED.
- 15. CONTRACTOR SHALL SECURE AND PAY FOR ALL APPLICABLE PERMITS AND FEES NECESSARY FOR THE COMPLETE CONSTRUCTION OF THE PROJECT.

### **GRADING NOTES:**

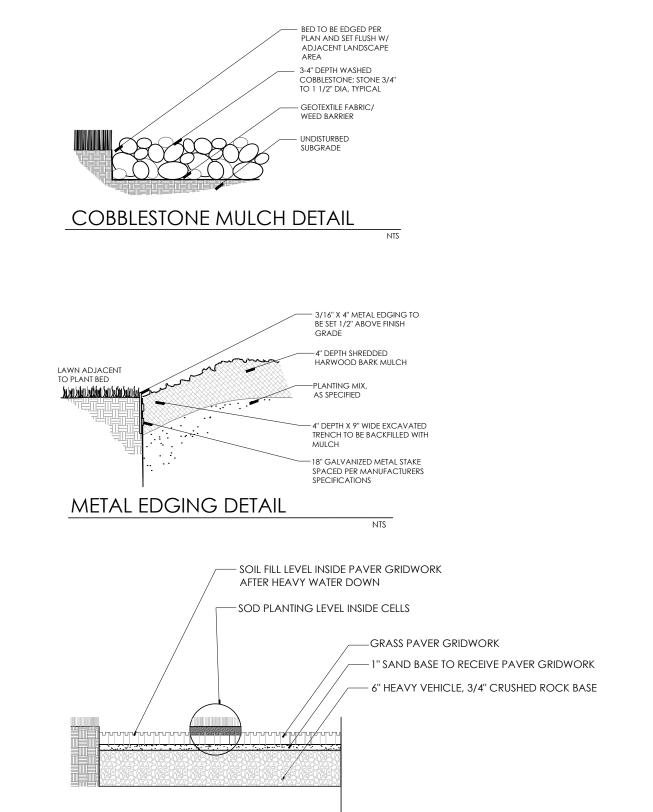
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING SURVEY INFORMATION INCLUDING THE UTILITY SYSTEMS BEFORE ANY DEMOLITION OR CONSTRUCTION WORK OCCURS. ANY DISCREPANCIES WITH THE SURVEY INFORMATION SHALL BE REPORTED TO THE ARCHITECT AND OWNER'S REPRESENTATIVE IMMEDIATELY.
- 2. CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR COST INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES.
- 3. CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND / OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE CITY ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO LACK OF SUCH NOTIFICATION.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
- 5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 6. NO CHANGE IN CONTRACT PRICE WILL BE ALLOWED FOR ACTUAL OR CLAIMED BETWEEN EXISTING GRADE AND THOSE SHOWN ON PLANS AFTER CONTRACTOR HAS ACCEPTED EXISTING GRADES AND MOVED ON TO THE SITE.
- 7. ALL PROPOSED GRADES ARE TO MEET AND BLEND IN WITH THE EXISTING GRADE AT PROJECT LIMIT. PRECISE ELEVATIONS INDICATED ON THE PLANS TO BE VERIFIED IN FIELD TO AS-BUILT CONDITION.
- 8. ALL GRADING AND PLACEMENT OF DRAINAGE STRUCTURES TO BE SUPERVISED IN THE FIELD BY THE OWNER'S REPRESENTATIVE.
- 9. INSTALL 3" DEPTH TOPSOIL OVER ALL DISTURBED LAWN AREAS. 10. SEED ALL PROPOSED OR DISTURBED LAWN AREAS.

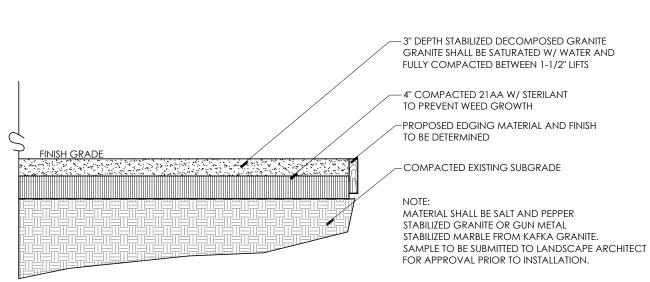
### **CONSTRUCTION NOTES:**

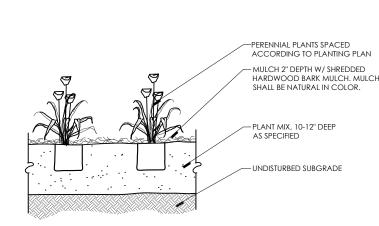
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- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH OPERATIONS.
- 5. CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 6. SEE SPECIFICATIONS FOR CONSTRUCTION REQUIREMENTS, MATERIALS, AND EXECUTION.
- 7. ALL PROPERTY LINES AND LOT LINES SHALL BE VERIFIED PRIOR TO COMMENCING WORK.
- 8. CONTRACTOR SHALL SUBMIT ALL SAMPLES PER SPECIFICATIONS. ALL SAMPLES SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO CONSTRUCTION.
- 9. DIMENSIONAL FLEXIBILITY SHALL BE WITHIN PLANT BEDS ONLY.
- 10. CONTRACTOR SHALL COORDINATE ALL SITE LAYOUT WITH THE LANDSCAPE ARCHITECT AND REPORT ANY DIMENSIONAL DISCREPANCIES PRIOR TO CONSTRUCTION.
- 11. HANDICAPPED RAMPS SHALL MEET ALL CURRENT BARRIER FREE DESIGN CODES.

### PLANTING NOTES:

- 1. THE CONTRACTOR SHALL VERIFY ALL RIGHTS OF WAY, EASEMENTS, PROPERTY LINES AND LIMITS OF WORK, ETC. PRIOR TO COMMENCING WORK.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING AND COORDINATING WITH ALL PERTINENT UTILITY COMPANIES 72 HOURS IN ADVANCE OF ANY DIGGING TO MAKE HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. THE CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- 3. THE CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS DUE TO FAILURE TO GIVE SUCH
- 4. ANY DISCREPANCIES BETWEEN DIMENSIONED LAYOUT AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE AND LANDSCAPE ARCHITECT. FAILURE TO MAKE SUCH DISCREPANCIES KNOWN WILL RESULT IN CONTRACTOR'S RESPONSIBILITY AND LIABILITY FOR ANY CHANGES AND ASSOCIATED COST
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH CONSTRUCTION INSTALLATION **OPERATIONS**
- 6. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN POSITIVE SURFACE DRAINAGE, ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, AND OR OWNER'S REPRESENTATIVE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- 8. SEE SPECIFICATIONS, PLANT LIST AND PLANTING DETAILS FOR PLANTING REQUIREMENTS, MATERIALS AND EXECUTION.
- 9. ALL TREES TO HAVE CLAY LOAM OR CLAY BALLS TREES WITH SAND BALLS SHALL NOT BE
- 10. ALL TREES TO BE APPROVED BY OWNER'S REPRESENTATIVE AND/OR LANDSCAPE ARCHITECT PRIOR TO DELIVERY TO THE SITE. ANY TREES DELIVERED TO THE SITE NOT PREVIOUSLY APPROVED MAY BE REJECTED AND ARE THE SOLE RESPONSIBILITY OF THE
- 11. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO THE APPROVAL OF THE LANDSCAPE ARCHITECT.
- 12. THE CONTRACTOR TO VERIFY PERCOLATION OF ALL PLANTING PITS PRIOR TO INSTALLATION OF PLANT MATERIAL.
- 13. THE CONTRACTOR SHALL PLACE 3" DEPTH OF SHREDDED BARK MULCH IN ALL PLANTING BEDS, UNLESS OTHERWISE INDICATED.



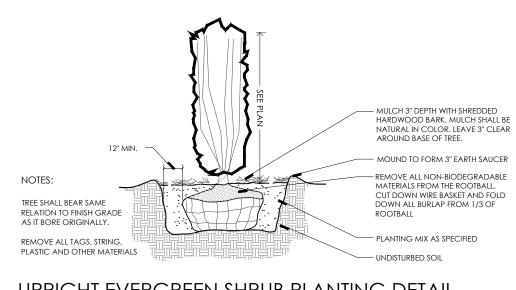




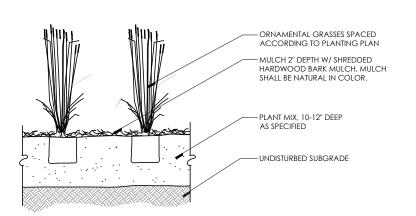
DECOMPOSED GRANITE WALK SECTION

PERENNIAL PLANTING DETAIL

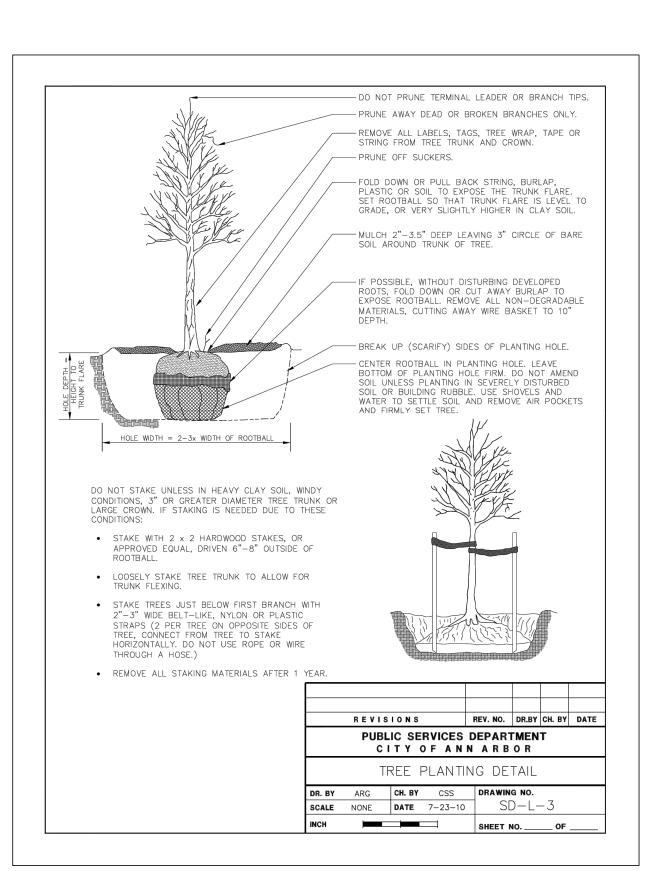
GRASS PAVER DETAIL



UPRIGHT EVERGREEN SHRUB PLANTING DETAIL



ORNAMENTAL GRASS PLANTING DETAIL



**BIOSWALE PLANT LIST** 

BOTANICAL/COMMON NAME

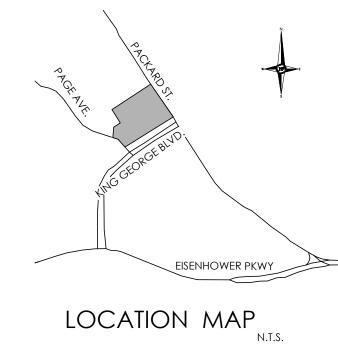
Heliopsis helianthoides
Ox-Eye Sunflower

Carex frankii Frank's Sedae

KEY QTY

CF 114

BIOSWALE PLANTINGS



– PLANTS SHALL HAVE 2" MINIMUM

DOUBLE PROCESSED HARDWOOD

- APPROXIMATE SPILLWAY LOCATION

- PROPOSED PLUGS SHALL BE PLANTED

IN DRIFTS THROUGH THE MULCH MATERIAL

WELL-ROTTED COMPOST OR

BARK MULCH, TYPICAL

AND SPAÇED AT 18" OC

SOIL IN THE BIOSWALE SHALL CONSIST OF A WELL-MIXED BLEND OF

2) BIOSWALE AREA SHALL BE RE-GRADED AS NECESSARY TO PREVENT WATER FROM FLOWING OFF-SITE, OVERFLOW SHALL OCCUR INTO

NATIVE TOPSOIL FROM A LOCAL, UPLAND SOURCE.

THE PARKING LOT.

SIZE SPACING ROOT COMMENT

POT

POT

POT

18" OC

18" OC

18" OC

18" OC

#1 POT

#1 POT

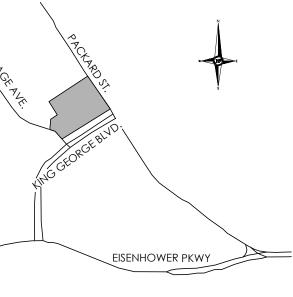
#1 POT

30% COARSE MASONRY SAND, 30% ORGANIC COMPOST, AND 40%

58-EP

26-RH

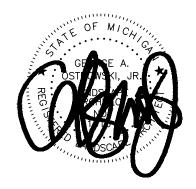
114-CF



**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



PROJECT The George 2502 Packard St. Ann Arbor, MI 48009

CLIENT Somerset Development 101 Crawfords Corner Rd. Holmdel, NJ 07733

Contact: Ken Gold Tel: 732.415-7171

### PROJECT LOCATION

Part of the 1/4 of Section 4 T. 3 South, R. 6 East City of Ann Arbor, Washtenaw County, Michigan

SHEET Landscape Notes and Details



REVISIONS 2024/08/15 ISSUED FOR CITY REVIEW 2024/11/05 REVISED PER CITY REVIEW 2024/11/18 REVISED PER CITY REVIEW 2025/03/10 REVISED PER CITY REVIEW

2025/04/22 REVISED PER FIRE REVIEW

2025/07/17 CITY REVIEW #3

DRAWN BY: G. Ostrowski

**DESIGNED BY:** G. Ostrowski APPROVED BY: G. Ostrowski DATE: 07/15/2024

SCALE: 1'' = 20'

NFE JOB NO.



**EXISTING SOLID WASTE** 

- (2) 2-YD COMPACTED TRASH DUMPSTERS IN ADJACENT ENCLOSURE ARE PICKED UP (5) DAYS A WEEK.
- (2) 4-YD RECYCLING DUMPSTERS IN ADJACENT ENCLOSURE ARE PICKED UP 3 DAYS A WEEK.

232 LBS PER DAY @ 4 LBS / BEDROOM / DAY

TRASH 186 LBS TRASH / DAY @ 80% 1,302 LBS TRASH / WEEK = 261 LBS TRASH / PICKUP MIN. (I) 2-YD COMPACTED REQ'D @ 550 LBS / YD

NEW SOLID WASTE GENERATION

RECYCLE
46 LBS RECYCLING / DAY @ 20% 322 LBS RECYCLING / WEEK = 107 LBS / PICKUP MIN. (I) 2-YD RECYCLING REQ'D @ 100 LBS / YD PROPOSED SOLID WASTE

(3) 2-YD COMPACTED TRASH DUMPSTERS PICKED UP AT EXISTING (5) DAYS A WEEK.

(3) 4-YD RECYCLING DUMPSTERS PICKED UP (5) DAYS A WEEK.

MOVING DUMPSTERS TO STAGING / PICKUP LOCATIONS ON PICKUP DAYS, SEE

SOLID WASTE RESPONSIBILITY

PROPERTY OWNER IS RESPONSIBLE FOR

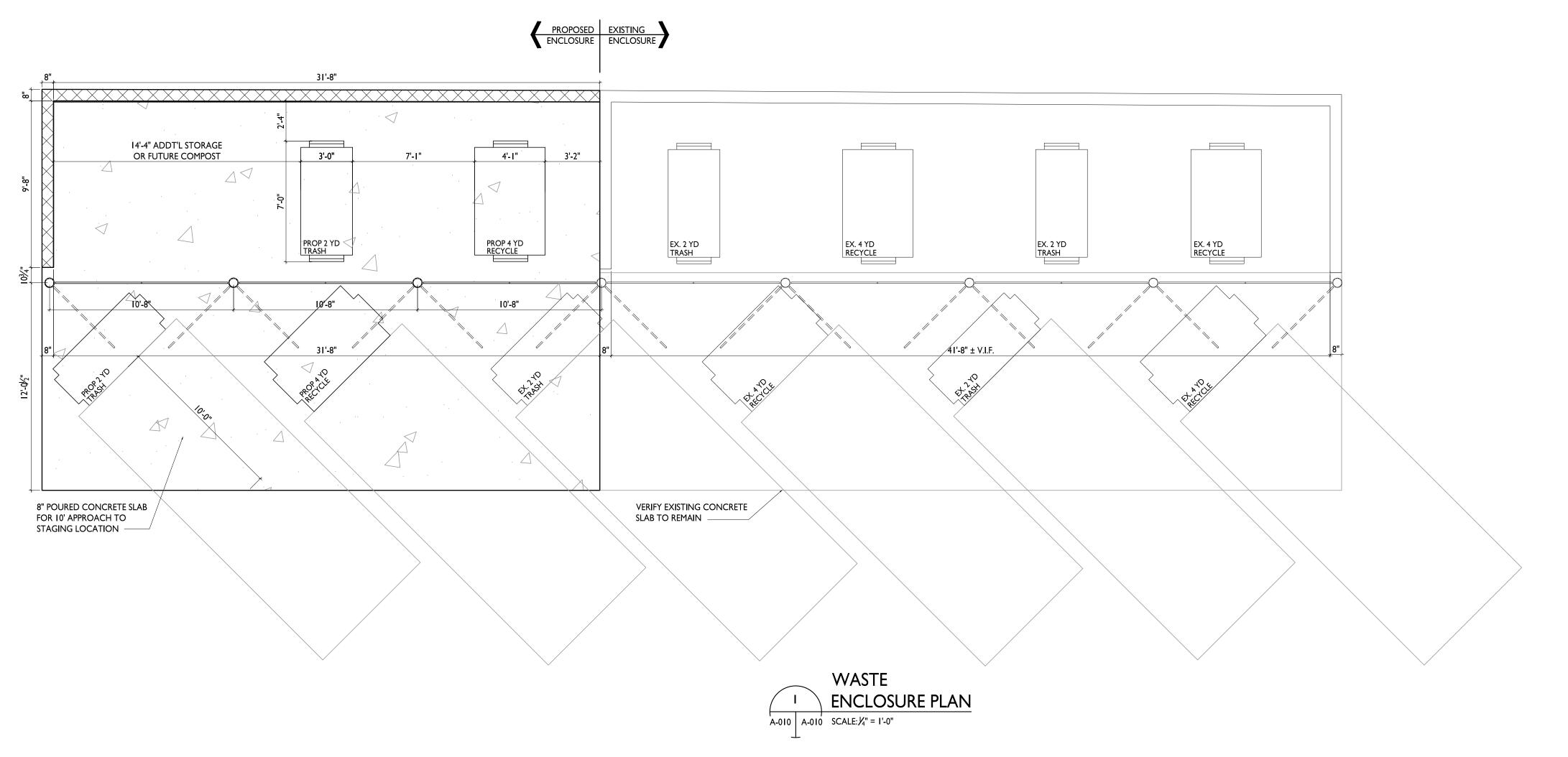
THE PROPERTY OWNER IS RESPONSIBLE FOR ALL SNOW AND ICE REMOVAL REQUIRED FOR SAFE ACCESS TO THE ENCLOSURES AND SERVICING OF ALL SOLID WASTE CONTAINERS.

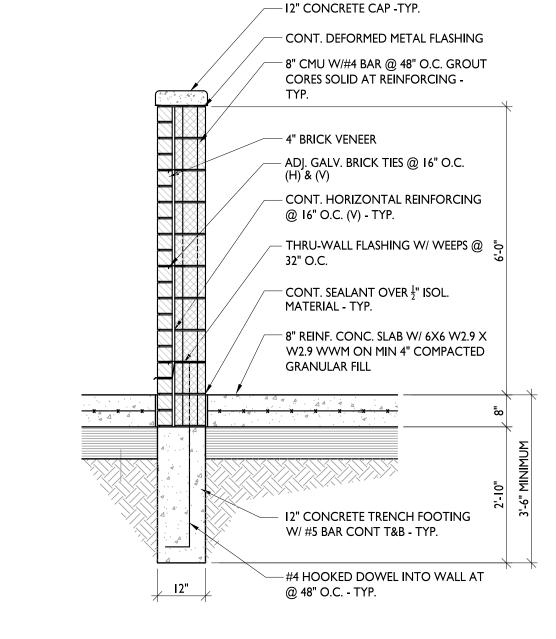
**GENERAL NOTES** 

I. NEW PAVEMENT SURFACES OF THE SOLID WASTE SERVICE ROUTE SHALL BE DESIGNED TO SUPPORT THE WEIGHT OF SOLID WASTE VEHICLES (79,500 GVWR)

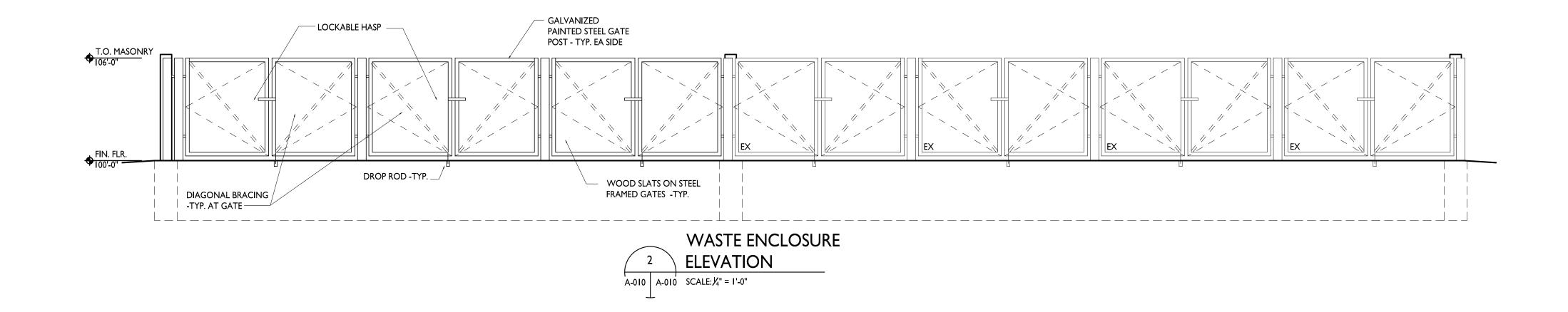
I.I. NO NEW PAVEMENT PROPOSED

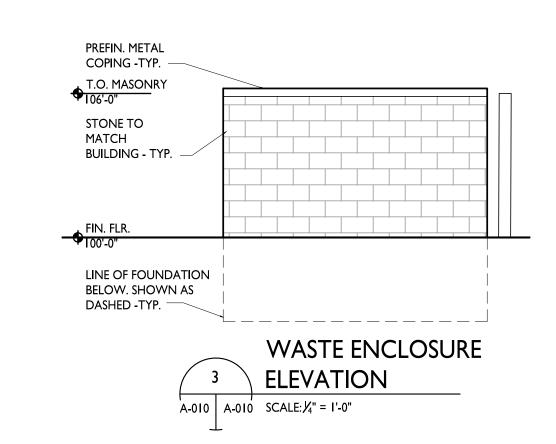
2. THE CITY'S COMPOST PROGRAM DOES NOT CURRENTLY EXTEND TO MULTIFAMILY OR COMMERCIAL DEVELOPMENTS. PRELIMINARY SPACE FOR FUTURE MULTIFAMILY COMPOST COLLECTION MAY BE SHOWN ON THE PLANS, NOTING THAT IT IS SUBJECT TO CHANGE DEPENDING ON WHAT THE COLLECTION NEEDS ARE DETERMINED TO BE. PRIVATE COMPOST SERVICE CAN BE ARRANGED THROUGH MY GREEN MICHIGAN



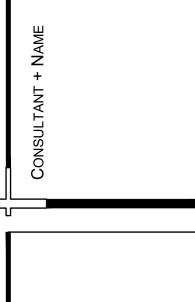


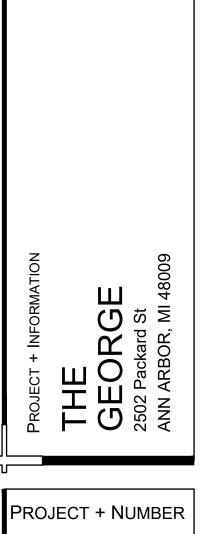


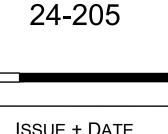


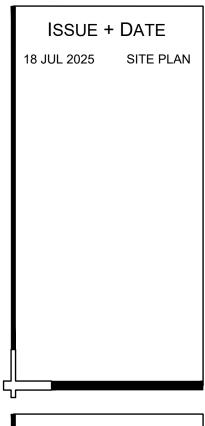






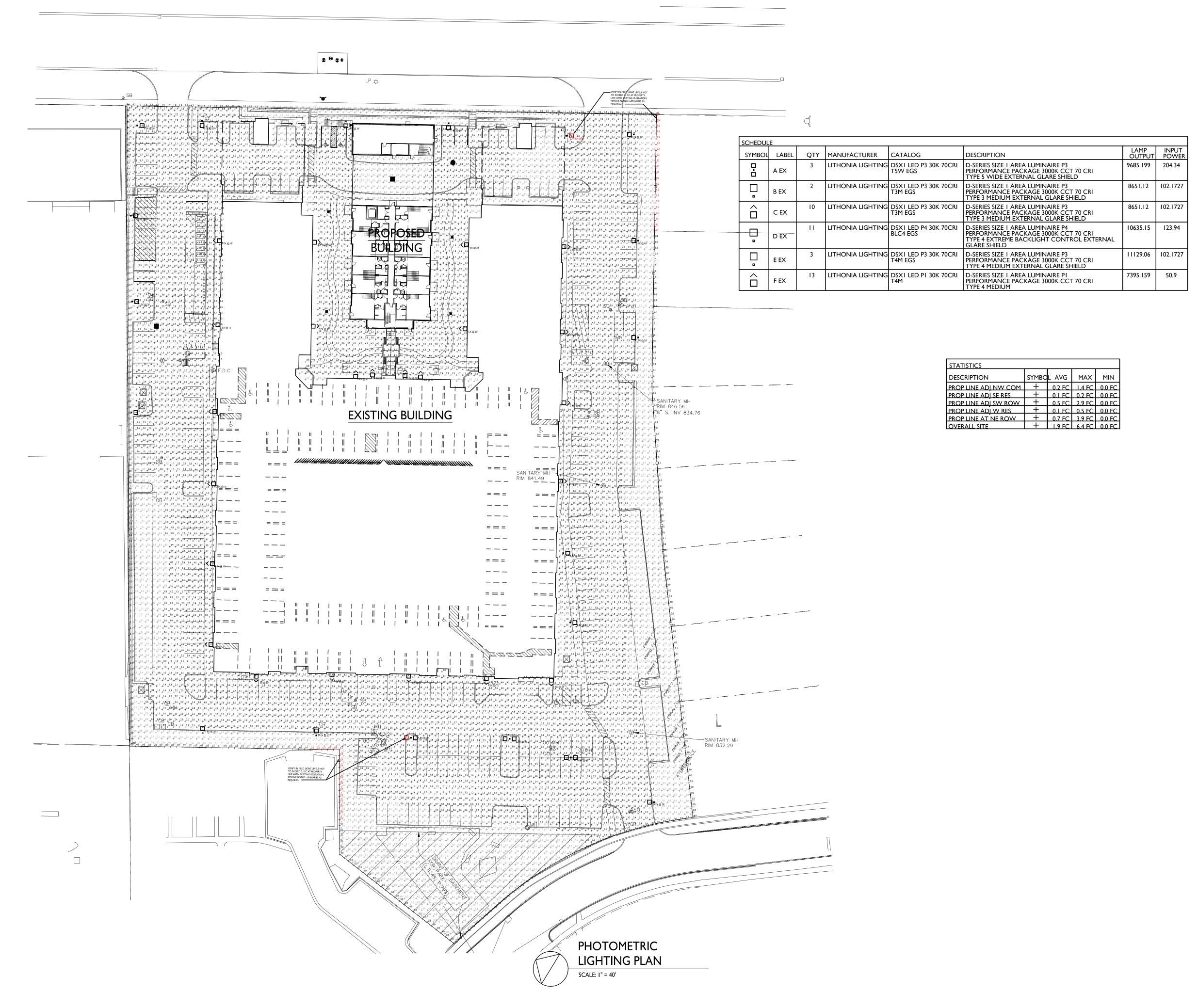








SHEET + NUMBER A-010



BOWERS+ASSOCIATES, INC.
2400 SOUTH HURON PARKWAY
ANN ARBOR, MI 48104
P: 734.975.2400
WWW.BOWERSARCH.COM

CONSULTANT + NAME

THE GEORGE 2502 Packard St ANN ARBOR, MI 48009

PROJECT + NUMBER

24-205

ISSUE + DATE

13 JAN 2025 REV
27 MAR 2025 SITE PLAN

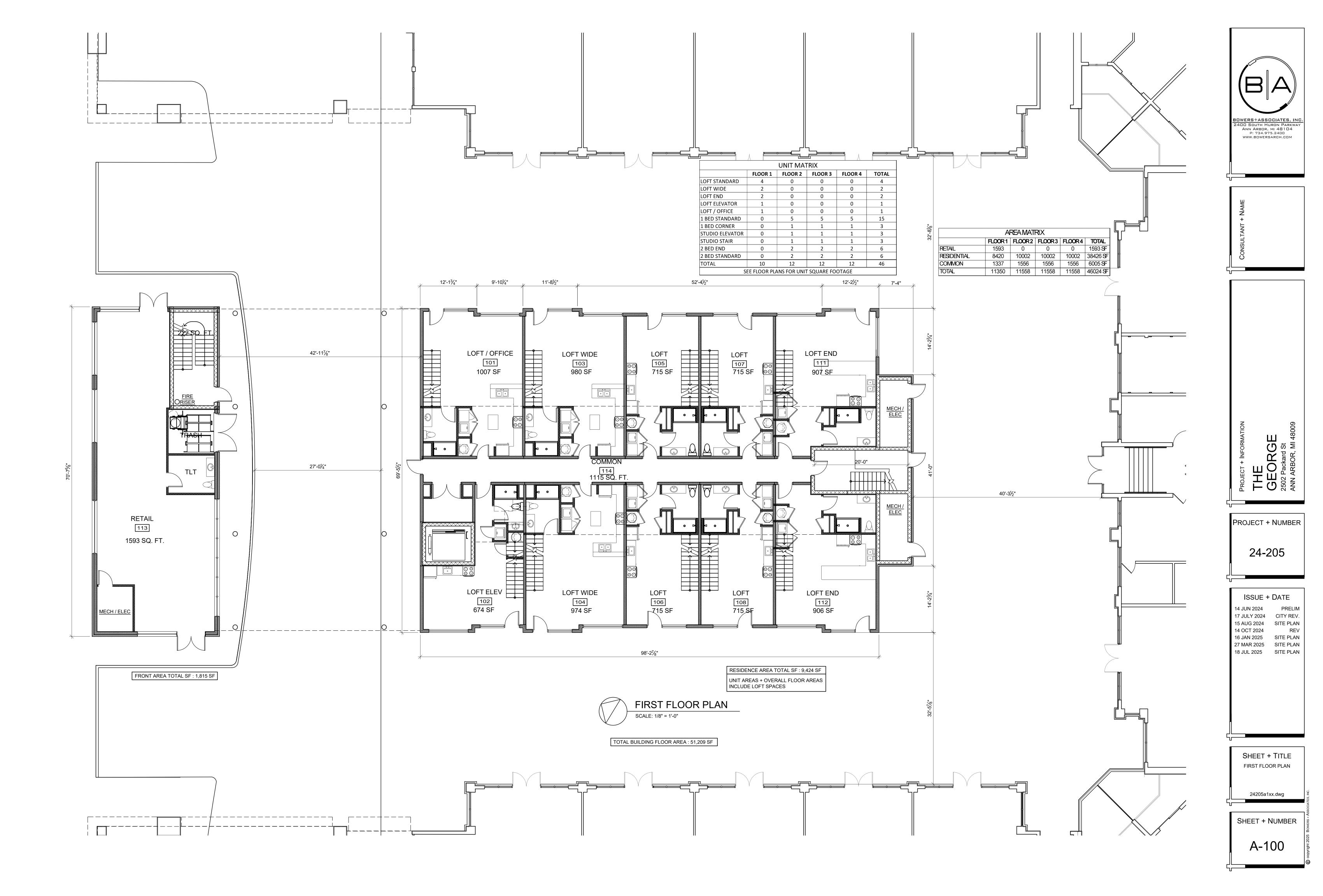
17 JUL 2025 SITE PLAN

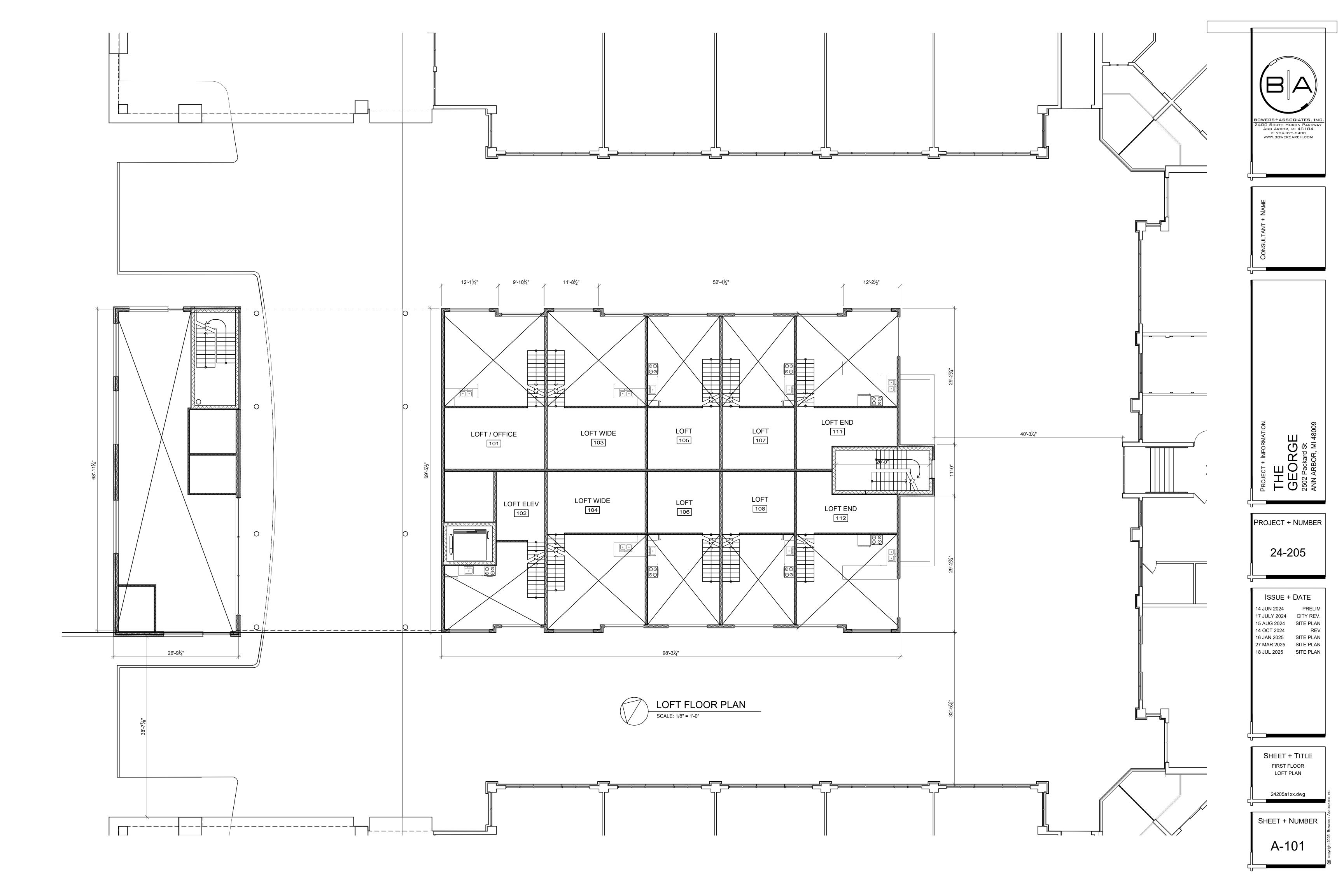
SHEET + TITLE
PHOTOMETRIC
LIGHTING PLAN

SHEET + NUMBER

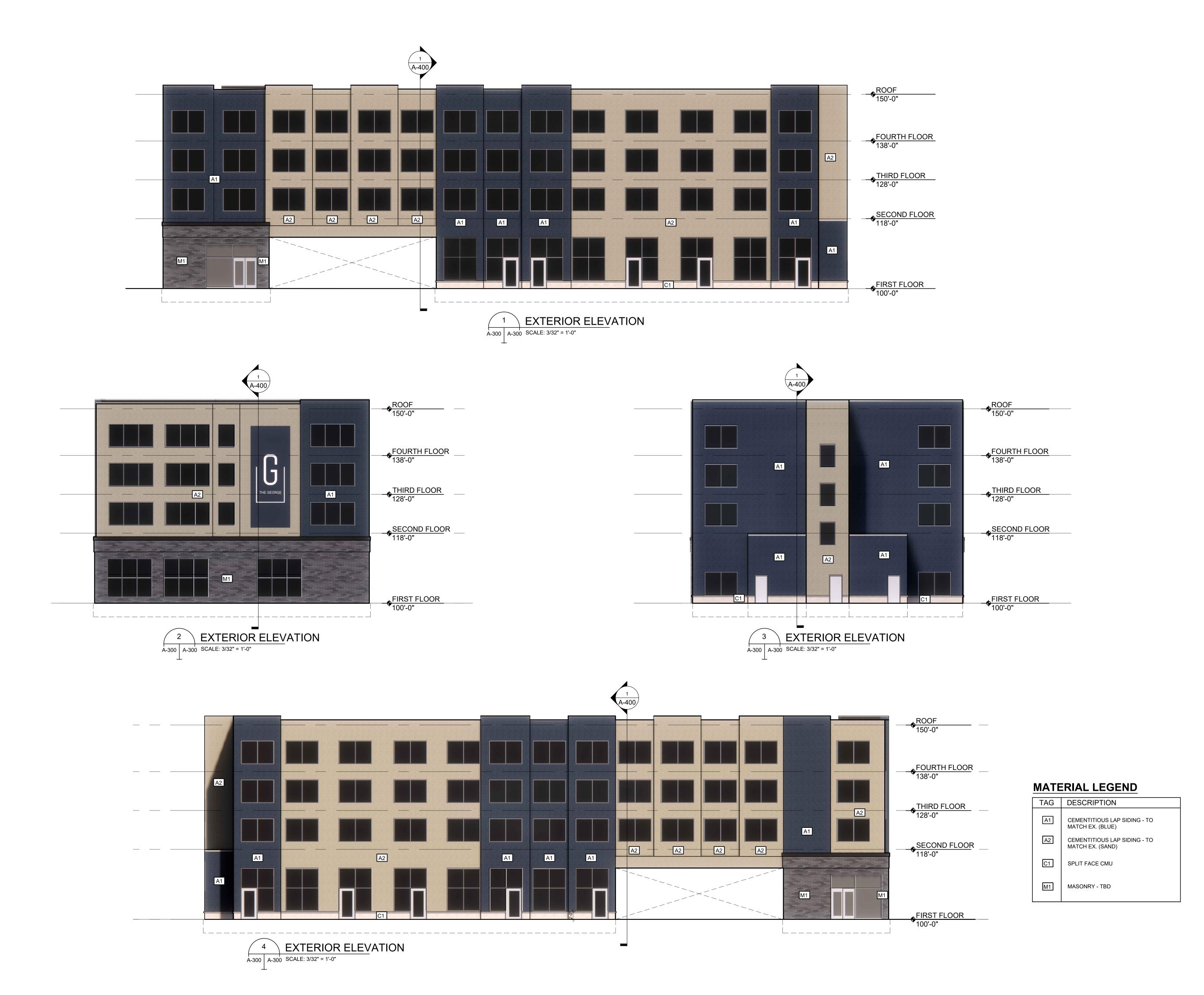
SP-101

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CONSULTANT + NAME

THE
GEORGE
2502 Packard St
ANN ARBOR, MI 48009

PROJECT + NUMBER

24-205

ISSUE + DATE

14 JUN 2024 PRELIM

17 JULY 2024 CITY REV.

15 AUG 2024 SITE PLAN

16 JAN 2025 SITE PLAN

27 MAR 2025 SITE PLAN

17 JUL 2025 SITE PLAN

SHEET + TITLE

EXTERIOR

ELEVATIONS

24205a3xxB.dwg

SHEET + NUMBER
A-300











CONSULTANT + NAM

THE GEORGE 2502 PACKARD ST

PROJECT + NUMBER

24-205

ISSUE + DATE

9 JAN 2025 SITE PLAN

10 MAR 2025 SITE PLAN

17 JUL 2025 SITE PLAN

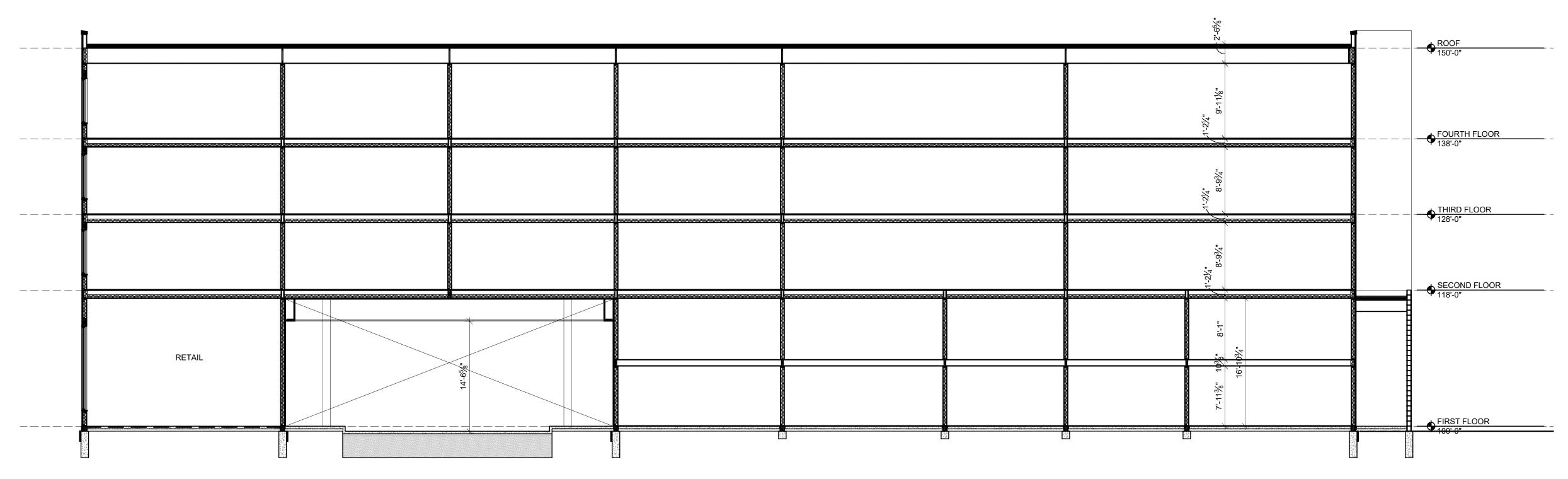
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EXTERIOR

RENDERS

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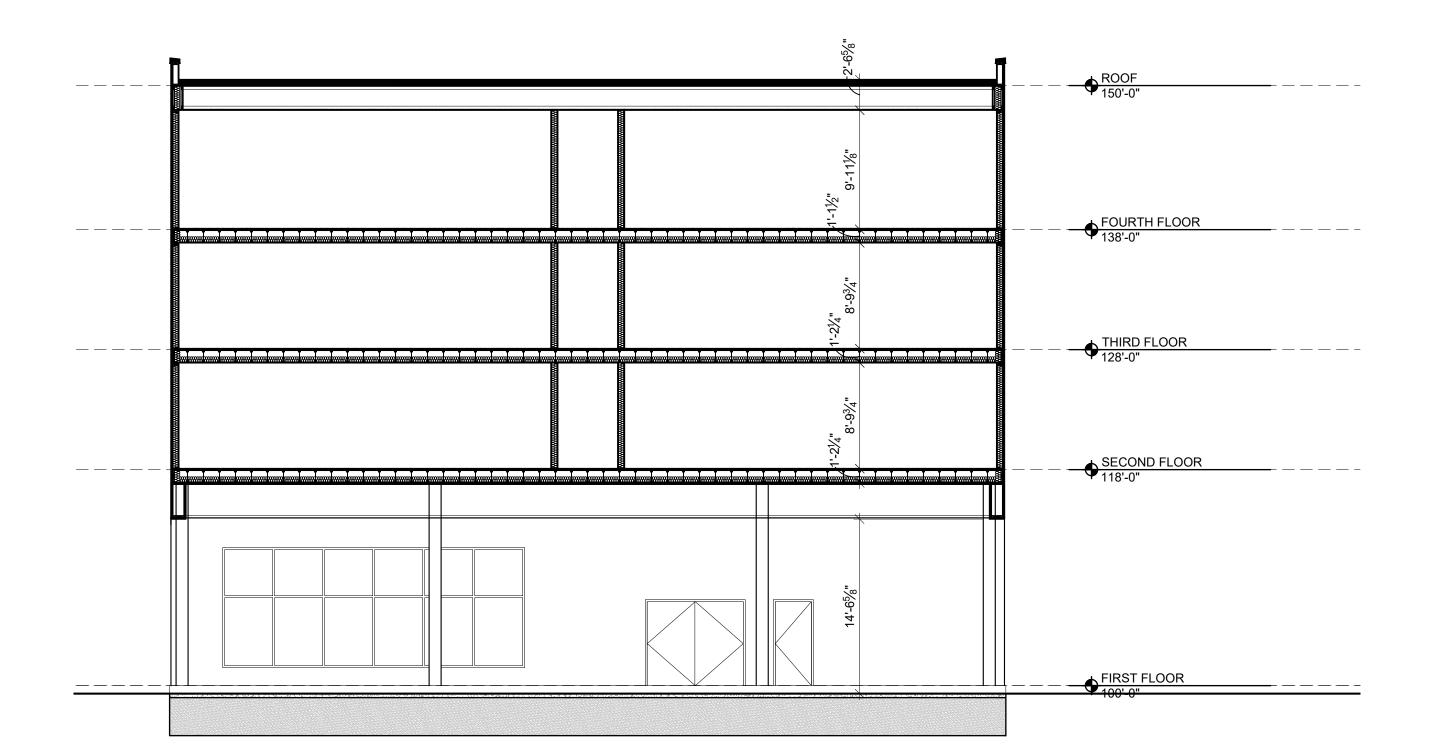
SHEET + NUMBER
A-301

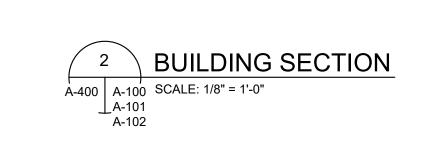


1 BUILDING SECTION

A-400 A-100 SCALE: 1/8" = 1'-0"

A-101 A-102







CONSULTANT + NAME

PROJECT + INFORMATION

THE

GEORGE

2502 Packard St

ANN ARBOR, MI 48009

24-205

ISSUE + DATE

PROJECT + NUMBER

ISSUE + DATE

14 JUN 2024 PRELIM

16 JAN 2025 SITE PLAN

17 JUL 2025 SITE PLAN

SHEET + TITLE

BUILDING

SECTION

24205a4xx.dwg

A-400

SHEET + NUMBER