U.S. Department of Housing and Urban Development 451 Seventh Street, SW Washington, DC 20410 www.hud.gov espanol.hud.gov

# Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

#### Project Information

Project Name: Grandmont-Rosedale-II

HEROS Number: 900000010269890

**Responsible Entity (RE):** DETROIT, PLANNING AND DEVELOPMENT DEPARTMENT DETROIT MI, 48226

**RE Preparer:** Kim Siegel

State / Local Identifier: Detroit, Michigan

Certifying Officer: Julie Schneider, Director

Grant Recipient (if different than Responsible Ent ity):

Point of Contact:

**Consultant (if applicabl** ASTI ENVIROMENTAL e):

Point of Contact: Benjamin Buckley

Project Location: 9710-9730 Outer Drive, Detroit, MI 48223

Additional Location Information: N/A

**Direct Comments to:** 

#### Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project is located at 9710-9730 West Outer Drive, Detroit, Wayne County, MI, 48226. Grandmont Rosedale Development Corporation will rehabilitate the exterior and interior of two existing, vacant, historic apartment buildings. 9710 West Outer Drive consists of six large one-bedroom apartments of 697 square feet each and four small one-bedroom apartments of 536 square feet each for a total of 10 one bedroom apartments of 6,326 square feet. 9730 West Outer Drive consists of six two-bedroom apartments of 797 square feet each, 11 one-bedroom apartments of 637 square feet each, two small one-bedroom apartments of 499 square apartments each, and four efficiency apartments of 424 square feet each for a total of 23 apartments of 14,483 square feet. All 33 apartments are to be affordable units. The rehabilitation includes window replacement, exterior repairs, interior MEP upgrades, new kitchens, and new bathroom fixtures. The existing parking lot at the rear of the property will have new lighting and new fencing. The walkways around the building are proposed to be replaced in their existing configuration.

#### Statement of Purpose and Need for the Proposal [40 CFR 1508.9(b)]:

The purpose of this project is to create new affordable housing units within the City of Detroit by rehabilitating two existing, vacant apartment complexes. The project will address the need for more affordable housing within the City. Detroit's 2018 Multifamily Affordable Housing Strategy outlines the strong demand for multifamily affordable housing in the City and set a goal of preserving 10,000 existing affordable multifamily units and creating 2,000 affordable multifamily housing units by 2023. This project will help to meet this goal.

#### Existing Conditions and Trends [24 CFR 58.40(a)]:

The interiors of the existing apartments at 9710-9730 are generally in poor condition and require rehabilitation to provide quality affordable housing units. The site is currently unoccupied. The immediate surrounding area primarily consists of occupied residential housing with a commercial corridor north of the site. The project's Market Feasibility Analysis (Tab Attachment 0) indicates the housing market conditions are overall healthy and indicative of demand for affordable multifamily housing supply such as the Subject Property. Population has decreased within Wayne County, between 2000 and 2010. However, Project Market Area (PMA) has experienced moderate population decrease. The PMA consists of the Subject Property and the surrounding neighborhoods. It is estimated that the City of Detroit's population has decreased between 2010 and 2020. During the documented and estimated population decrease, rental housing stock in the PMA has been removed from the market. The PMA has experienced demolition and obsolescence of rental housing stock.

#### Maps, photographs, and other documentation of project location and description: <u>Attachment 0 - Site Map.pdf</u>

#### **Determination:**

~	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 1508.13] The project will not result in a significant impact on the quality of human
	environment
	Finding of Significant Impact

#### Approval Documents:

# 7015.15 certified by Certifying Officer

on:

# 7015.16 certified by Authorizing Officer

on:

#### **Funding Information**

Grant / Project Identification Number	HUD Program	Program Name
M21MC260202	Community Planning and Development (CPD)	HOME Program

#### **Estimated Total HUD Funded,** \$1,350,000.00 Assisted or Insured Amount:

Estimated Total Project Cost [24 CFR 58.2 (a) \$15,266,933.00 (5)]:

#### Compliance with 24 CFR §50.4, §58.5 and §58.6 Laws and Authorities

<b>Compliance Factors</b> : Statutes, Executive Orders, and Regulations listed at 24 CFR §50.4, §58.5, and §58.6	Are formal compliance steps or mitigation required?	Compliance determination (See Appendix A for source determinations)		
STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR §50.4 & § 58.6				
Airport Hazards	🗆 Yes 🗹 No	The property is not located in a FAA-		
Clear Zones and Accident Potential		designated Airport Runway Clear Zone		
Zones; 24 CFR Part 51 Subpart D		or Accident Potential Zone (RCZ/APZ).		
		Coleman A. Young International Airport		
		is approximately 11.05 miles east of the		
		property, while the Detroit Metro		

			Airport (DTW) lies 13.36 miles to the south. The proposed project is not located within an airport hazard area (Attachment A).
Coastal Barrier Resources Act	🗆 Yes	⊠ No	The property is not located in the
Coastal Barrier Resources Act, as			Coastal Barrier Resource Area in Wayne
amended by the Coastal Barrier			County. No coastal barriers will be
Improvement Act of 1990 [16 USC			impacted by the proposed project
3501] Flood Insurance	□ Yes		(Attachment B). The property is located in FEMA Flood
Flood Disaster Protection Act of			Map Panel 26163C0100E, Effective Date
1973 and National Flood Insurance			February 2, 2012. The property is
Reform Act of 1994 [42 USC 4001-			located in zone X, which represents
4128 and 42 USC 5154a]			minimal risk outside the 1- percent and
			2-percent-annual-chance floodplains.
			Floodplain management is not required
			(Attachment C).
STATUTES, EXECUTIVE OR	DERS, AND	REGULATIO	NS LISTED AT 24 CFR §50.4 & § 58.5
Air Quality	□ Yes	⊠ No	The entire State of Michigan is
Clean Air Act, as amended,			designated as "attainment for carbon
particularly section 176(c) & (d); 40			monoxide, lead, nitrogen dioxide, and
CFR Parts 6, 51, 93			particulate matter (PM10). Wayne
			County. The southwestern portion of
			Detroit is within a sulfur dioxide
			nonattainment area; however, it does
			not appear the site is located within the
			sulfur dioxide nonattainment area. The
			site is within a larger area in southeast
			Michigan for ozone nonattainment. The
			project was reviewed by Michigan
			Environment, Great Lakes, and Energy
			(EGLE) for conformance with the State
			Implementation Plan (SIP). EGLE
			determined the Project should not exceed the de minimis levels included in
			the federal general conformity
			requirements and therefore, does not
			require a detailed conformity analysis.
			The Project is in compliance with the
Coastal Zone Management Act	□ Yes	☑ No	Clean Air Act (Attachment D). Review of the Wayne County Coastal
Coastal Zone Management Act Coastal Zone Management Act,	□ Yes	☑ No	Clean Air Act (Attachment D).
•	□ Yes	☑ No	Clean Air Act (Attachment D). Review of the Wayne County Coastal
Coastal Zone Management Act,	☐ Yes	☑ No	Clean Air Act (Attachment D). Review of the Wayne County Coastal Zone Management Boundary and

	<b></b>	
		Management area. The Project is in
		compliance with the Coastal Zone
		Management Act (Attachment E).
Contamination and Toxic	🗆 Yes 🗹 No	A Phase I Environmental Site
Substances		Assessment (ESA) was completed on
24 CFR 50.3(i) & 58.5(i)(2)]		October 30, 2020. The Phase I ESA
		identified no Recognized Environmental
		Conditions (REC's) associated with the
		property. An asbestos survey was
		completed between September 1 and 9,
		2020. Asbestos Containing Material
		(ACM) was identified on the site. The
		asbestos will be abated in accordance
		with local, state and federal laws during
		construction. A Lead-Based Paint (LBP)
		risk assessment was completed
		between October 13 and 16, 2020. The
		lead will be abated in accordance with
		local, state and federal laws during
		construction. The property is in Wayne
		County, which is within Zone 3 of the
		EPA Radon Map for risk of indoor radon
		levels; Zone 3 is low potential risk for
		indoor radon levels (Attachment F).
Endangered Species Act	□ Yes ☑ No	This project involves rehabilitation of an
Endangered Species Act of 1973,		existing building. There are no wetlands,
particularly section 7; 50 CFR Part		streams or wooded habitat on or
402		
402		adjacent to the project. Additionally, the
		project is located in the highly urbanized
		area of the City of Detroit. A letter from
		the U.S. Fish and Wildlife Service dated
		March 17, 2022, determined that the
		project will have no effect on any of the
		endangered species known to have
		habitats within Wayne County.
		Therefore, the project will have no
		effect on listed species (Attachment G).
Explosive and Flammable Hazards	🗆 Yes 🗹 No	The project is located at an Acceptable
Above-Ground Tanks)[24 CFR Part		Separation Distance (ASD) from any
51 Subpart C		above-ground explosive, flammable
		fuels or chemicals containers according
		to 24 CFR 51C. A one-mile radius around
		the Property was searched for ASTs
		containing hazardous materials above-
		containing hazardous materials above- ground explosive or flammable fuels or

		within one-mile of the project location
		(Attachment H).
<b>Farmlands Protection</b> Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	□ Yes ☑ No	This project does not include any prime or unique farmland. The property is located within an "urbanized area" that has been previously developed and, therefore, is not subject to the statutory or regulatory requirements identified above, per 7 CFR 658.2(a) (Attachment I).
<b>Floodplain Management</b> Executive Order 11988, particularly section 2(a); 24 CFR Part 55	□ Yes ☑ No	The property is located in FEMA Flood Map Panel 26163C0100E. The property is located in zone X, which represents minimal risk outside the 1- percent and 2-percent-annual-chance floodplains. Floodplain management is not required (Attachment C).
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	□ Yes ☑ No	Under the authority of the National Historic Preservation Act (NHPA) of 1966, as amended, and the "Programmatic Agreement between the Michigan State Historic Preservation Office and the City of Detroit, Michigan," dated November 9, 2016, the City of Detroit has reviewed the above-cited project and has determined it to be an undertaking as defined by 36 CFR 800.16(y). Based on the information submitted to this office on 3/31/2022, we have determined a Historic Property is located within in the Area of Potential Effects (APE) for this project. The building at 9710-30 W. Outer Drive is listed on the National Register of Historic Places as part of the Rosedale Park Local Historic District. Therefore, per Stipulation V.B of the Programmatic Agreement (PA), the project shall be carried out in accordance with the Secretary of the Interior's Standards for Rehabilitation. This project has been given a Conditional No Adverse Effect determination (Federal Regulations 36 CFR Part 800.5(b)) on properties that are listed or eligible for listing in the National Register of Historic Places, as

	1	
		long at the following conditions are
		met: *The work is conducted in
		accordance with the specifications
		submitted to the PreservationSpecialist
		on 3/31/2022 *Any changes to the
		scope of work for the project shall be
		submitted to the PreservationSpecialist
		for review and approval prior to the
		start of any work *A copy of the NPS
		Tax Credit Part II approval is provided
		*Photos of the completed work are
		submitted to the Preservation Specialist
Noise Abatement and Control	☐ Yes ☑ No	•
		The Subject Property is near Grand River
Noise Control Act of 1972, as		Avenue and West Outer Drive, which
amended by the Quiet Communities		are considered busy roads due to their
Act of 1978; 24 CFR Part 51 Subpart		size and traffic volume. The site is also
В		within proximity of two airports.
		Coleman A. Young International Airport
		(DET) is located approximately 11.05
		miles east of the project and is within 15
		miles (the MSHDA/HUD civil airport
		distance criterion) of the development.
		Based on the Noise Contour Map for the
		airport, the site is not within a distance
		of concern. Detroit Metro Airport (DTW)
		is located approximately 13.38 miles
		south of the project and is within 15
		miles (the MSHDA/HUD civil airport
		distance criterion) of the development.
		Based on the Noise Contour Map for the
		airport, the site is not considered to
		represent a noise concern to the
		property. The noise for the roadway
		was projected to levels in 2032 and was
		found to be in the normally
		unacceptable range at 67.0 dB. The Noise Assessment is included in
		Attachment K. The HUD Sound
		Transmission Classification Assessment
		Tool (STraCAT) was used to determine
		the noise attenuation for the building
		walls to bring the noise levels within
		acceptable levels for interiors. The
		calculations were made from the wall
		assemblies the NAL was determined;
		units on the northeastern corner of

		building 9710. The building materials
		include 522 square feet of wall
		construction with a Sound Transmission
		Class (STC) rating of 51 (4x8x18"
		concrete block with common brick all
		mortared together). These units also
		include 8 exterior windows with a STC of
		35 (approximately 3'x5' aluminum sash,
		double hung window each sash has one
		7/16" glass panel and one storm sash
		glazed single strength upper sash 1 1/2"
		and lower sash 2 13/16" airspaces). The
		combined STC for this wall assembly is
		41.03. The wall components will bring
		noise levels to acceptable interior
		standards of below 45 dB. No further
		attenuation is needed for the site
		(Attachment K).
Sole Source Aquifers	🗆 Yes 🗹 No	There are no sole source aquifers
Safe Drinking Water Act of 1974, as		located in Michigan; therefore, the
amended, particularly section		project will have no impact on sole
1424(e); 40 CFR Part 149		source aquifers (Attachment L).
Wetlands Protection	🗆 Yes 🗹 No	The project does not involve new
Executive Order 11990, particularly		construction. Additionally, no wetlands
sections 2 and 5		are present on the property according
Wild and Scenic Rivers Act	🗆 Yes 🗹 No	There are no designated Wild and
Wild and Scenic Rivers Act of 1968,		0
particularly section 7(b) and (c)		-
		•
HUD HC	USING ENVIRONMEN	
	ENVIRONMENTAL J	USTICE
Environmental Justice	🗆 Yes 🗹 No	This project consists of rehabilitation of
Executive Order 12898		two unoccupied apartment buildings
		into 33 low-income housing units. This
		project is intended to increase the
		amount of quality affordable housing
		options available in Detroit. The project
		will not have a disproportionately high
		adverse effect on human health or
1424(e); 40 CFR Part 149 Wetlands Protection Executive Order 11990, particularly sections 2 and 5 Wild and Scenic Rivers Act Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c) HUD HC Environmental Justice	Yes INO Yes INO OUSING ENVIRONMEN ENVIRONMENTAL J	The project does not involve new construction. Additionally, no wetlands are present on the property according to the National Wetlands Inventory Map. Therefore, the project will have no impact on wetlands (Attachment M). There are no designated Wild and Scenic Rivers in Detroit or Wayne County. Therefore, the project will not impact wild & scenic rivers (Attachment N). <b>TAL STANDARDS</b> <b>USTICE</b> This project consists of rehabilitation of two unoccupied apartment buildings into 33 low-income housing units. This project is intended to increase the amount of quality affordable housing options available in Detroit. The project will not have a disproportionately high

(Attachment O).	and/or low-income populations
	(Attachment O).

#### Environmental Assessment Factors [24 CFR 58.40; Ref. 40 CFR 1508.8 & 1508.27]

**Impact Codes**: An impact code from the following list has been used to make the determination of impact for each factor.

- (1) Minor beneficial impact
- (2) No impact anticipated
- (3) Minor Adverse Impact May require mitigation

(4) Significant or potentially significant impact requiring avoidance or modification which may require an Environmental Impact Statement.

Environmental	Impact	Impact Evaluation	Mitigation				
Assessment Factor	Code						
	LAND DEVELOPMENT						
Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design	2	The project involves the rehabilitation of existing apartments buildings that are in compliance with existing zoning and are compatible with the surrounding neighborhood, which is a mix of single-family dwellings, multi- family buildings, and commercial structures. The project involves the renovation of existing buildings. It is not anticipated to have any significant impact on the surrounding urban environment, and it will be compatible with surrounding land uses. The surrounding land is zoned multi-family,					
Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff	2	single-family and commercial. According to the web soil survey, the soil is described as Kibbie-Urban land complex, sandy substratum, 0 to 4 percent slopes and Kibbie-Urban land- Colwood complex, sandy substratum, 0 to 4 percent slopes. This type of soil is suitable for site rehabilitation. According to the Royal Oak Quadrangle 7.5-minute Topographic map, there are no measurable changes in elevation on or near the site. No drainage or slope issues are anticipated. Due to the topography of the site (low slope), erosion is not a significant concern.					

Environmental	Impact	Impact Evaluation	Mitigation			
Assessment Factor	Code					
LAND DEVELOPMENT						
		Project specifications require				
		contractors to prevent erosion from				
		occurring at the site during				
		construction.				
Hazards and Nuisances	2	The project is not adversely affected by				
including Site Safety and		on-site or off-site hazards or nuisances.				
Site-Generated Noise		There will be adequate on-site parking				
		for residents, and the project will install				
		new fencing and lighting in the parking				
		area. The project includes replacing the				
		existing circulation paths on the site				
		with new accessible concrete walkways.				
		The proposed rehabilitation is located				
		in an established residential and				
		commercial area and is not expected to				
		generate significant noise. Increased				
		noise from construction will be				
		temporary.				
Energy	2	The area is served by electrical and gas				
Consumption/Energy		utilities provided by DTE Energy. There				
Efficiency		is adequate capacity to serve the new				
		construction buildings.				
		OCIOECONOMIC	I			
Employment and Income	1	There will be a temporary increase in				
Patterns		jobs related to the construction of the				
		project. Other than construction related				
		changes, the project will not result in a				
		change to employment and income				
		patterns in the area. The project may				
		be beneficial to local businesses, as				
		there will be an increase in households				
		requiring goods and services.				
Demographic Character	2	The project will not change the				
Changes / Displacement		demographics of the general area. It				
		will provide needed affordable housing				
		to residents of the area. The project				
		aims to assist low-income individuals in				
		Detroit by providing affordable				
		apartments. The project involves the				
		rehabilitation of existing (vacant)				
		apartment buildings. No displacement				
		will occur as a result of the project.				

Environmental	Impact	Impact Evaluation	Mitigation
Assessment Factor	Code		
	LA	ND DEVELOPMENT	
C	OMMUNI	TY FACILITIES AND SERVICES	
Educational and Cultural	2	The area is served by the Detroit Public	
Facilities (Access and		Schools Community District. This	
Capacity)		project will not impact the capacity of	
		any of these schools. Students residing	
		in the housing would be served by Cook	
		STEM Academy (K-6, 0.4 miles	
		northeast of the project area), Emerson	
		Elementary-Middle School (K-8, 1.1	
		miles north), and Henry Ford High	
		School (9-12, 2.2 miles north). Regular	
		education students in grades K-8 who	
		reside more than 3/4 of a mile from	
		their neighborhood school and attend	
		their neighborhood school will receive	
		yellow bus transportation from a	
		designated corner stop determined by	
		the Office of Student Transportation.	
		Regular education students in grades 9- 12 are provided City of Detroit	
		Department of Transportation bus	
		passes, provided that they attend their	
		neighborhood school and live more	
		than 1.5 miles away. Special education	
		students will receive transportation	
		services required by their Individualized	
		Education Plan. The schools have	
		adequate capacity for the potential new	
		students. No educational facilities will	
		be negatively affected by the proposed	
		project. The proposed project is located	
		in the City of Detroit, which is home to	
		numerous major cultural facilities,	
		including the Detroit Institute of Arts,	
		the Motown Museum, the Detroit	
		Children's Museum, Greenfield Village	
		and Henry Ford Museum. The Redford	
		Theater and the Redford branch of the	
		Detroit Public Library provide	
		educational and cultural opportunities	
		in the vicinity of the project location	
		The project will not have a negative	

Environmental	Impact	Impact Evaluation	Mitigation		
Assessment Factor	Code				
LAND DEVELOPMENT					
		effect on any cultural facilities			
		(Attachment P).			
<b>Commercial Facilities</b>	2	The project area's main commercial			
(Access and Proximity)		corridor is Grand River Avenue. The			
		avenue is located approximately 100			
		feet north of the apartment buildings,			
		and features a large variety of			
		commercial establishments including			
		restaurants, markets, pharmacies, and			
		retail stores. No commercial facilities			
		will be negatively impacted by this			
		project (Attachment P).			
Health Care / Social	2	The project area is served by a full			
Services (Access and		range of health care professionals. The			
Capacity)		Henry Ford Medical Center Detroit-			
		Northwest is located 1.2 miles to the			
		northeast, and the DMC Sinai Grace			
		Hospital is located 2.6 miles to the			
		northeast. No health care services will			
		be negatively impacted by this project			
		(Attachment P).			
Solid Waste Disposal and	2	Dumpsters will be provided for			
Recycling (Feasibility and		residents to dispose of their trash. Solid			
Capacity)		waste disposal will be taken care of via			
		a professional disposal company under			
		contract.			
Waste Water and	2	The project will be connected to the			
Sanitary Sewers		municipal sanitary sewer service. The			
(Feasibility and Capacity)		Detroit Water and Sewage Department			
		(DWSD) provides service to the project			
Mater Course (Coosile ility	2	area.			
Water Supply (Feasibility	2	The project will be connected to the			
and Capacity)		municipal water service. The DWSD			
Dublic Safaty Dolico	2	provides service to the project area.			
Public Safety - Police,	2	The Detroit Police Department covers			
Fire and Emergency Medical		the city with the 8th Precinct covering the project location. The precinct			
INICUICAL		offices are located at 21555 West			
		McNichols Road, approximately 1.1			
		miles northwest of the property. No			
		police services will be negatively			
		impacted by the proposed project. The			
		Detroit Fire Department provides fire			
		become in e beparanene provides in e			

Environmental	Impact	Impact Evaluation	Mitigation	
Assessment Factor	Code			
LAND DEVELOPMENT				
		department services to the city along with basic first responder medical assistance from paramedics. The closest fire station is located at 16825 Trinity St, approximately 1 mile northwest of the project location. No fire services will be negatively impacted by the proposed project. The Emergency Medical Services Division of the Detroit Fire Department provides Emergency Medical Services to residents in the project area. The closest fire station is located at 16825 Trinity St, approximately 1 mile northwest of the project location. No fire services will be negatively impacted by the proposed project (Attachment P)		
Parks, Open Space and Recreation (Access and Capacity)	2	project (Attachment P). The proposed project is located near open spaces including parks. Stoepel Park, Hackett Playground, and Midland Bentler Playground are located within one mile of the project location (Attachment P). No open spaces will be negatively impacted by the proposed project. The project is located in the city of Detroit; there are many options for recreation available. In additional to the locally available playgrounds and parks, major roads and public transit provide easy access to major entertainment venues such as Little Caesars Area, Comerica Park, Ford Field and the Fox Theatre. No recreation facilities will be negatively impacted by the proposed project.		
Transportation and Accessibility (Access and Capacity)	2	Bus service in the city is provided by the Detroit Department of Transportation. A stop on the 3 Grand River bus route is located approximately 0.2 miles from the site on Grand River Ave. The 60 Evergreen bus route runs along Evergreen Road, and a stop on the route is located at Evergreen and		

Environmental	Impact	Impact Evaluation	Mitigation	
Assessment Factor	Code			
LAND DEVELOPMENT				
		Midland approximately 0.3 miles away		
		from the project location. Telegraph		
		Road and the Southfield Freeway are		
		major north/south thoroughfares		
		located just to the west and east of the		
		project location that provide		
		connections to the I-96 Expressway. I-		
		96 provides connections to other major		
		highways in Detroit that together		
		provide easy vehicular access to the		
		surrounding region.		
	N	ATURAL FEATURES		
Unique Natural Features	2	The proposed project is located in a		
/Water Resources		densely developed urban area. There		
		are no unique natural features or		
		substantial agricultural land in the		
		immediate vicinity of the project.		
		Groundwater will not be affected by the		
		proposed construction project. The city		
		provides municipal water service to the		
		project area. There are no sole source		
		aquifers in the State of Michigan		
		(Attachment L). The City of Detroit's		
		source water comes from the Great		
		Lakes and connecting channels (Lake		
		Huron and the Detroit River). No water		
		resources will be impacted by the		
		proposed project.		
Vegetation / Wildlife	2	The proposed project is located in an		
(Introduction,		urban area in the city of Detroit. There		
Modification, Removal,		is no substantial wildlife habitat		
Disruption, etc.)		currently on the property. Construction		
		activity will require the removal of		
		select trees on the property, however		
		these trees will be replaced, new		
		planting beds and hedges will be		
		installed, and the lawn areas will be		
		restored. The project will not have a		
		negative impact on vegetation or wildlife.		
Other Factors	2			
Other Factors	2	None		

#### Supporting documentation

Additional Studies Performed:

## Field Inspection [Optional]: Date and completed

by: Maura Gibbons

8/27/2020 12:00:00 AM

#### List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

1. Federal Emergency Management Agency-Map Service for Flood Rate Insurance Maps https://msc.fema.gov/portal/home 2. U.S. Fish & Wildlife Service, National Wetlands Inventory, Wetlands Mapper;

http://www.fws.gov/wetlands/data/mapper.html 3. U.S. Fish & Wildlife Service, Endangered Species, Michigan County Distribution of Federally- Listed Threatened, Endangered, Proposed, and Candidate Species,

https://ecos.fws.gov/ecp/report/species 4. Michigan Department of Environmental Quality, Michigan Coastal Zone Boundary Maps,

http://www.michigan.gov/deq/0,4561,7-135-3313\_3677\_3696-90802--,00.html 5. Michigan Department of Environmental Quality, Air Quality Division,

http://www.michigan.gov/deq/0,1607,7-135-3310\_30151\_31129---,00.html 6. US EPA Map of Radon Zones, Wayne County, Michigan,

http://www.epa.gov/radon/states/michigan.html 7. City of Detroit, Multifamily Affordable Housing Strategy. 2018. 8. City of Detroit, Water Quality Report, 2018. 8. Detroit Police Department, Precincts and Neighborhood Police Officers https://detroitmi.gov/departments/police-department/precincts-and-neighborhood-

police-officers

#### List of Permits Obtained:

#### Public Outreach [24 CFR 58.43]:

All historical, local and federal contacts on City of Detroit 2022 Interest Parties List were sent a copy of the Notice of Intent to Request for Release of Funds to use HUD funding for the project and were asked to comment on the project. Additionally, the EA was published in the Detroit News and the Detroit Free Press for public comment.

#### Cumulative Impact Analysis [24 CFR 58.32]:

#### Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

No alternatives other than the no action alternative were considered for this project.

#### No Action Alternative [24 CFR 58.40(e)]

The No Action Alternative is to not rehabilitate the existing unoccupied apartment complexes. This alternative is not preferred as it fails to address the need of quality, affordable housing in the City of Detroit. Additionally, it leaves a large apartment complex vacant. The City of Detroit is focused on rehabilitating vacant buildings into updated housing in residential areas.

#### Summary of Findings and Conclusions:

The proposed project will renovate two vacant, historic apartment buildings and bring 33 affordable housing units to market in the City of Detroit. It will aid in filling the need for affordable housing in the city. As illustrated in the above documentation, the project is not anticipated to have an adverse effect on the surrounding environment, and the environment will not have an adverse effect on residents of the apartments. The project is compatible with the surrounding neighborhood and will have minimal impact on the existing resources and services in the area.

#### Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

Law,	Mitigation Measure or Condition	Comments	Mitigation	Complete
Authority,		on	Plan	
or Factor		Completed		
		Measures		

Project Mitigation Plan

Supporting documentation on completed measures

## **APPENDIX A: Related Federal Laws and Authorities**

### **Airport Hazards**

General policy	Legislation	Regulation
It is HUD's policy to apply standards to		24 CFR Part 51 Subpart D
prevent incompatible development		
around civil airports and military airfields.		

**1.** To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

✓ No

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

#### Screen Summary

#### **Compliance Determination**

The property is not located in a FAA-designated Airport Runway Clear Zone or Accident Potential Zone (RCZ/APZ). Coleman A. Young International Airport is approximately 11.05 miles east of the property, while the Detroit Metro Airport (DTW) lies 13.36 miles to the south. The proposed project is not located within an airport hazard area (Attachment A).

#### Supporting documentation

#### Attachment A - RCZ Map.pdf

#### Are formal compliance steps or mitigation required?

Yes

### **Coastal Barrier Resources**

General requirements	Legislation	Regulation
HUD financial assistance may not be	Coastal Barrier Resources Act	
used for most activities in units of the	(CBRA) of 1982, as amended by	
Coastal Barrier Resources System	the Coastal Barrier Improvement	
(CBRS). See 16 USC 3504 for limitations	Act of 1990 (16 USC 3501)	
on federal expenditures affecting the		
CBRS.		

#### 1. Is the project located in a CBRS Unit?

✓ No

Document and upload map and documentation below.

Yes

#### **Compliance Determination**

The property is not located in the Coastal Barrier Resource Area in Wayne County. No coastal barriers will be impacted by the proposed project (Attachment B).

#### Supporting documentation

#### Attachment B - Coastal Barrier Map.pdf

#### Are formal compliance steps or mitigation required?

Yes

#### **Flood Insurance**

General requirements	Legislation	Regulation
Certain types of federal financial assistance may not be	Flood Disaster	24 CFR 50.4(b)(1)
used in floodplains unless the community participates	Protection Act of 1973	and 24 CFR 58.6(a)
in National Flood Insurance Program and flood	as amended (42 USC	and (b); 24 CFR
insurance is both obtained and maintained.	4001-4128)	55.1(b).

# 1. Does this project involve <u>financial assistance for construction, rehabilitation, or</u> <u>acquisition of a mobile home, building, or insurable personal property</u>?

No. This project does not require flood insurance or is excepted from flood insurance.

✓ Yes

#### 2. Upload a FEMA/FIRM map showing the site here:

#### Attachment C - FEMA Floodplain Map.pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

#### Is the structure, part of the structure, or insurable property located in a FEMAdesignated Special Flood Hazard Area?

✓ No

Based on the response, the review is in compliance with this section.

Yes

4. While flood insurance is not mandatory for this project, HUD strongly recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). Will flood insurance be required as a mitigation measure or condition?

Yes

✓ No

#### Screen Summary

#### **Compliance Determination**

The property is located in FEMA Flood Map Panel 26163C0100E, Effective Date February 2, 2012. The property is located in zone X, which represents minimal risk outside the 1- percent and 2-percent-annual-chance floodplains. Floodplain management is not required (Attachment C).

#### Supporting documentation

#### Are formal compliance steps or mitigation required?

Yes

### Air Quality

General requirements	Legislation	Regulation
The Clean Air Act is administered	Clean Air Act (42 USC 7401 et	40 CFR Parts 6, 51
by the U.S. Environmental	seq.) as amended particularly	and 93
Protection Agency (EPA), which	Section 176(c) and (d) (42 USC	
sets national standards on	7506(c) and (d))	
ambient pollutants. In addition,		
the Clean Air Act is administered		
by States, which must develop		
State Implementation Plans (SIPs)		
to regulate their state air quality.		
Projects funded by HUD must		
demonstrate that they conform		
to the appropriate SIP.		

**1.** Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

- ✓ Yes
  - No

Air Quality Attainment Status of Project's County or Air Quality Management District

2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

No, project's county or air quality management district is in attainment status for all criteria pollutants.

- Yes, project's management district or county is in non-attainment or maintenance status for the following criteria pollutants (check all that apply):
  - Carbon Monoxide

Lead

Nitrogen dioxide

✓ Sulfur dioxide

✓

Ozone

Particulate Matter, <2.5 microns

Particulate Matter, <10 microns

# 3. What are the *de minimis* emissions levels (<u>40 CFR 93.153</u>) or screening levels for the non-attainment or maintenance level pollutants indicated above

Sulfur dioxide100.00ppb (parts per billion)Ozone100.00ppb (parts per million)

#### Provide your source used to determine levels here:

The source used to determine the level of ozone is the EPA's National Ambient Air Quality Standards table. Since the project is outside of the ozone transport region, the project is in the "other" category.

#### 4. Determine the estimated emissions levels of your project. Will your project exceed any of the de minimis or threshold emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

✓ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels.

#### Enter the estimate emission levels:

Sulfur dioxide0.00ppb (parts per billion)Ozone0.00ppb (parts per million)

Based on the response, the review is in compliance with this section.

Yes, the project exceeds *de minimis* emissions levels or screening levels.

#### Screen Summary

#### Compliance Determination

The entire State of Michigan is designated as "attainment for carbon monoxide, lead, nitrogen dioxide, and particulate matter (PM10). Wayne County. The southwestern portion of Detroit is within a sulfur dioxide nonattainment area; however, it does not

appear the site is located within the sulfur dioxide nonattainment area. The site is within a larger area in southeast Michigan for ozone nonattainment. The project was reviewed by Michigan Environment, Great Lakes, and Energy (EGLE) for conformance with the State Implementation Plan (SIP). EGLE determined the Project should not exceed the de minimis levels included in the federal general conformity requirements and therefore, does not require a detailed conformity analysis. The Project is in compliance with the Clean Air Act (Attachment D).

#### Supporting documentation

Attachment D - EGLE Air Quality Letter.pdf Attachment D - Air Quality Maps.pdf

#### Are formal compliance steps or mitigation required?

Yes

### **Coastal Zone Management Act**

General requirements	Legislation	Regulation
Federal assistance to applicant	Coastal Zone Management	15 CFR Part 930
agencies for activities affecting	Act (16 USC 1451-1464),	
any coastal use or resource is	particularly section 307(c)	
granted only when such	and (d) (16 USC 1456(c) and	
activities are consistent with	(d))	
federally approved State		
Coastal Zone Management Act		
Plans.		

# 1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

Yes

✓ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

#### Screen Summary

#### **Compliance Determination**

Review of the Wayne County Coastal Zone Management Boundary and Coastal Zone Management Area map documents the Project is not located within a designated Coastal Zone Management area. The Project is in compliance with the Coastal Zone Management Act (Attachment E).

#### Supporting documentation

Attachment E - Coastal Zone Management Map.pdf

#### Are formal compliance steps or mitigation required?

- Yes
- ✓ No

#### **Contamination and Toxic Substances**

General requirements	Legislation	Regulations
It is HUD policy that all properties that are being		24 CFR 58.5(i)(2)
proposed for use in HUD programs be free of		24 CFR 50.3(i)
hazardous materials, contamination, toxic		
chemicals and gases, and radioactive		
substances, where a hazard could affect the		
health and safety of the occupants or conflict		
with the intended utilization of the property.		

# **1.** How was site contamination evaluated? Select all that apply. Document and upload documentation and reports and evaluation explanation of site contamination below.

 American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessment (ESA)
 ASTM Phase II ESA
 Remediation or clean-up plan
 ASTM Vapor Encroachment Screening
 None of the Above

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

✓ No

**Explain:** No REC's were identified in the Phase I ESA.

Based on the response, the review is in compliance with this section.

Yes

#### Screen Summary

#### **Compliance Determination**

A Phase I Environmental Site Assessment (ESA) was completed on October 30, 2020. The Phase I ESA identified no Recognized Environmental Conditions (REC's) associated with the property. An asbestos survey was completed between September 1 and 9,

2020. Asbestos Containing Material (ACM) was identified on the site. The asbestos will be abated in accordance with local, state and federal laws during construction. A Lead-Based Paint (LBP) risk assessment was completed between October 13 and 16, 2020. The lead will be abated in accordance with local, state and federal laws during construction. The property is in Wayne County, which is within Zone 3 of the EPA Radon Map for risk of indoor radon levels; Zone 3 is low potential risk for indoor radon levels (Attachment F).

#### Supporting documentation

<u>Attachment F - Radon Map.pdf</u> <u>Attachment F - Phase I Environmental Site Assessment.pdf</u> <u>Attachment F - Lead Survey.pdf</u> <u>Attachment F - Asbestos Survey.pdf</u>

#### Are formal compliance steps or mitigation required?

Yes

### **Endangered Species**

General requirements	ESA Legislation	Regulations
Section 7 of the Endangered Species Act (ESA)	The Endangered	50 CFR Part
mandates that federal agencies ensure that	Species Act of 1973	402
actions that they authorize, fund, or carry out	(16 U.S.C. 1531 et	
shall not jeopardize the continued existence of	seq.); particularly	
federally listed plants and animals or result in	section 7 (16 USC	
the adverse modification or destruction of	1536).	
designated critical habitat. Where their actions		
may affect resources protected by the ESA,		
agencies must consult with the Fish and Wildlife		
Service and/or the National Marine Fisheries		
Service ("FWS" and "NMFS" or "the Services").		

# **1.** Does the project involve any activities that have the potential to affect specifies or habitats?

No, the project will have No Effect due to the nature of the activities involved in the project.

No, the project will have No Effect based on a letter of understanding, memorandum of agreement, programmatic agreement, or checklist provided by local HUD office

 ✓ Yes, the activities involved in the project have the potential to affect species and/or habitats.

#### 2. Are federally listed species or designated critical habitats present in the action area?

No, the project will have No Effect due to the absence of federally listed species and designated critical habitat

✓ Yes, there are federally listed species or designated critical habitats present in the action area.

# 3. What effects, if any, will your project have on federally listed species or designated critical habitat?

✓ No Effect: Based on the specifics of both the project and any federally listed species in the action area, you have determined that the project will have absolutely no effect on listed species or critical habitat. in the action area.

> Document and upload all documents used to make your determination below. Documentation should include a species list and explanation of your conclusion, and may require maps, photographs, and surveys as appropriate

May Affect, Not Likely to Adversely Affect: Any effects that the project may have on federally listed species or critical habitats would be beneficial, discountable, or insignificant.

Likely to Adversely Affect: The project may have negative effects on one or more listed species or critical habitat.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review. If negative effects cannot be mitigated, cancel the project using the button at the bottom of this screen.

Mitigation as follows will be implemented:

✓ No mitigation is necessary.

Explain why mitigation will not be made here:

There are Threatened and Endangered species in Wayne County. However, based on the scope of this project, the location in the highly urbanized area and the lack of critical habitat on the property, the project will have No Effect on listed species.

Compliance Determination

Screen

<u>Summary</u>

This project involves rehabilitation of an existing building. There are no wetlands, streams or wooded habitat on or adjacent to the project. Additionally, the project is located in the highly urbanized area of the City of Detroit. A letter from the U.S. Fish and Wildlife Service dated March 17, 2022, determined that the project will have no effect on any of the endangered species known to have habitats within Wayne County. Therefore, the project will have no effect on listed species (Attachment G).

#### Supporting documentation

Attachment G - USFWS No Effect Letter.pdf Attachment G - T and E Species List.pdf

#### Are formal compliance steps or mitigation required?

Yes

#### **Explosive and Flammable Hazards**

General requirements	Legislation	Regulation
HUD-assisted projects must meet	N/A	24 CFR Part 51
Acceptable Separation Distance (ASD)		Subpart C
requirements to protect them from		
explosive and flammable hazards.		

1. Is the proposed HUD-assisted project itself the development of a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?

✓ No

Yes

2. Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?

No

✓ Yes

3. Within 1 mile of the project site, are there any current or planned stationary aboveground storage containers that are covered by 24 CFR 51C? Containers that are NOT covered under the regulation include:

• Containers 100 gallons or less in capacity, containing common liquid industrial fuels OR

• Containers of liquified petroleum gas (LPG) or propane with a water volume capacity of 1,000 gallons or less that meet the requirements of the 2017 or later version of National Fire Protection Association (NFPA) Code 58.

If all containers within the search area fit the above criteria, answer "No." For any other type of aboveground storage container within the search area that holds one of the flammable or explosive materials listed in Appendix I of 24 CFR part 51 subpart C, answer "Yes."

🗸 No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Yes

## Screen Summary

#### **Compliance Determination**

The project is located at an Acceptable Separation Distance (ASD) from any aboveground explosive, flammable fuels or chemicals containers according to 24 CFR 51C. A one-mile radius around the Property was searched for ASTs containing hazardous materials above-ground explosive or flammable fuels or chemicals containers. None are located within one-mile of the project location (Attachment H).

#### Supporting documentation

### Attachment H - ASD Map.pdf

#### Are formal compliance steps or mitigation required?

Yes

### **Farmlands Protection**

General requirements	Legislation	Regulation
The Farmland Protection	Farmland Protection Policy	<u>7 CFR Part 658</u>
Policy Act (FPPA) discourages	Act of 1981 (7 U.S.C. 4201	
federal activities that would	et seq.)	
convert farmland to		
nonagricultural purposes.		

1. Does your project include any activities, including new construction, acquisition of undeveloped land or conversion, that could convert agricultural land to a non-agricultural use?

Yes

✓ No

If your project includes new construction, acquisition of undeveloped land or conversion, explain how you determined that agricultural land would not be converted:

This project is located in the highly urbanized City of Detroit. There is no agricultural land in the vicinity of the project.

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

#### Screen Summary

#### **Compliance Determination**

This project does not include any prime or unique farmland. The property is located within an ''urbanized area'' that has been previously developed and, therefore, is not subject to the statutory or regulatory requirements identified above, per 7 CFR 658.2(a) (Attachment I).

#### Supporting documentation

#### Attachment I - Farmland Map.pdf

#### Are formal compliance steps or mitigation required?

Yes

### Floodplain Management

General Requirements	Legislation	Regulation
Executive Order 11988,	Executive Order 11988	24 CFR 55
Floodplain Management,		
requires federal activities to		
avoid impacts to floodplains		
and to avoid direct and		
indirect support of floodplain		
development to the extent		
practicable.		

# 1. Do any of the following exemptions apply? Select the applicable citation? [only one selection possible]

- 55.12(c)(3) 55.12(c)(4) 55.12(c)(5) 55.12(c)(6) 55.12(c)(7) 55.12(c)(8) 55.12(c)(9) 55.12(c)(10) 55.12(c)(11)
- ✓ None of the above

#### 2. Upload a FEMA/FIRM map showing the site here:

### Attachment C - FEMA Floodplain Map.pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use **the best available information** to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site.

#### Does your project occur in a floodplain?

✓ No

Based on the response, the review is in compliance with this section.

Yes

#### Screen Summary

#### **Compliance Determination**

The property is located in FEMA Flood Map Panel 26163C0100E. The property is located in zone X, which represents minimal risk outside the 1- percent and 2-percent-annual-chance floodplains. Floodplain management is not required (Attachment C).

#### Supporting documentation

#### Are formal compliance steps or mitigation required?

Yes

General requirements	Legislation	Regulation					
Regulations under	Section 106 of the	36 CFR 800 "Protection of Historic					
Section 106 of the	National Historic	Properties"					
National Historic	Preservation Act	https://www.govinfo.gov/content/pkg/CF					
Preservation Act	(16 U.S.C. 470f)	R-2012-title36-vol3/pdf/CFR-2012-title36-					
(NHPA) require a		vol3-part800.pdf					
consultative process							
to identify historic							
properties, assess							
project impacts on							
them, and avoid,							
minimize, or mitigate							
adverse effects							

#### Threshold

#### Is Section 106 review required for your project?

No, because the project consists solely of activities listed as exempt in a Programmatic Agreement (PA). (See the PA Database to find applicable PAs.) No, because the project consists solely of activities included in a No Potential to Cause Effects memo or other determination [36 CFR 800.3(a)(1)].

 ✓ Yes, because the project includes activities with potential to cause effects (direct or indirect).

#### Step 1 – Initiate Consultation

Select all consulting parties below (check all that apply):

Indian Tribes, including Tribal Historic Preservation Officers (THPOs) or Native Hawaiian Organizations (NHOs)

✓ Other Consulting Parties

✓ City of Detroit Preservation Specialist

#### Completed

#### Describe the process of selecting consulting parties and initiating consultation here:

Under the authority of the National Historic Preservation Act (NHPA) of 1966, as amended, and the Programmatic Agreement between the Michigan State Historic Preservation Office and the City of Detroit, Michigan as amended, dated November 9, 2016, the City of Detroit has reviewed the above-cited project and has determined it to be an undertaking as defined by 36 CFR 800.16(y). Additionally, the project is greater than 0.5 acres; therefore, an archeology review is required.

Document and upload all correspondence, notices and notes (including comments and objections received below).

#### Was the Section 106 Lender Delegation Memo used for Section 106 consultation?

Yes No

#### Step 2 – Identify and Evaluate Historic Properties

# 1. Define the Area of Potential Effect (APE), either by entering the address(es) or uploading a map depicting the APE below:

The site is listed on the National Register of Historic Places.

# In the chart below, list historic properties identified and evaluated in the APE. Every historic property that may be affected by the project should be included in the chart.

Upload the documentation (survey forms, Register nominations, concurrence(s) and/or objection(s), notes, and photos) that justify your National Register Status determination below.

Address / Location / District	National Register Status	SHPO Concurrence	Sensitive Information
9710-30 W. Outer			
Drive	Listed	No	✓ Not Sensitive

#### Additional Notes:

2. Was a survey of historic buildings and/or archeological sites done as part of the project?

Yes

✓ No

### Step 3 – Assess Effects of the Project on Historic Properties

Only properties that are listed on or eligible for the National Register of Historic Places receive further consideration under Section 106. Assess the effect(s) of the project by applying the Criteria of Adverse Effect. (<u>36 CFR 800.5</u>)] Consider direct and indirect effects as applicable as per guidance on <u>direct and indirect effects</u>.

Choose one of the findings below - No Historic Properties Affected, No Adverse Effect, or Adverse Effect; and seek concurrence from consulting parties.

No Historic Properties Affected

✓ No Adverse Effect

Based on the response, the review is in compliance with this section. **Document reason for finding:** 

See summary below.

Does the No Adverse Effect finding contain conditions?

Yes (check all that apply) ✓ No

Based on the response, the review is in compliance with this section. Document and upload concurrence(s) or objection(s) below.

Adverse Effect

### Screen Summary

### **Compliance Determination**

Under the authority of the National Historic Preservation Act (NHPA) of 1966, as amended, and the "Programmatic Agreement between the Michigan State Historic Preservation Office and the City of Detroit, Michigan...," dated November 9, 2016, the City of Detroit has reviewed the above-cited project and has determined it to be an undertaking as defined by 36 CFR 800.16(y). Based on the information submitted to this office on 3/31/2022, we have determined a Historic Property is located within in the Area of Potential Effects (APE) for this project. The building at 9710-30 W. Outer Drive is listed on the National Register of Historic Places as part of the Rosedale Park Local Historic District. Therefore, per Stipulation V.B of the Programmatic Agreement (PA), the project shall be carried out in accordance with the Secretary of the Interior's Standards for Rehabilitation. This project has been given a Conditional No Adverse Effect determination (Federal Regulations 36 CFR Part 800.5(b)) on properties that are listed or eligible for listing in the National Register of Historic Places, as long at the following conditions are met: \*The work is conducted in accordance with the specifications submitted to the PreservationSpecialist on 3/31/2022 \*Any changes to the scope of work for the project shall be submitted to the PreservationSpecialist for review and approval prior to the start of any work \*A copy of the NPS Tax Credit Part II approval is provided \*Photos of the completed work are submitted to the **Preservation Specialist** 

### Supporting documentation

<u>Attachment J - Section 106 Report.pdf</u> <u>Attachment J - Section 106 Letter - CNAE.pdf</u> <u>Attachment J - Section 106 Application.pdf</u>

### Are formal compliance steps or mitigation required?

Yes

### **Noise Abatement and Control**

General requirements	Legislation	Regulation
HUD's noise regulations protect	Noise Control Act of 1972	Title 24 CFR 51
residential properties from		Subpart B
excessive noise exposure. HUD	General Services Administration	
encourages mitigation as	Federal Management Circular	
appropriate.	75-2: "Compatible Land Uses at	
	Federal Airfields"	

### 1. What activities does your project involve? Check all that apply:

New construction for residential use

✓ Rehabilitation of an existing residential property

NOTE: For major or substantial rehabilitation in Normally Unacceptable zones, HUD encourages mitigation to reduce levels to acceptable compliance standards. For major rehabilitation in Unacceptable zones, HUD strongly encourages mitigation to reduce levels to acceptable compliance standards. See 24 CFR 51 Subpart B for further details.

A research demonstration project which does not result in new construction or reconstruction

An interstate land sales registration

Any timely emergency assistance under disaster assistance provision or appropriations which are provided to save lives, protect property, protect public health and safety, remove debris and wreckage, or assistance that has the effect of restoring facilities substantially as they existed prior to the disaster None of the above

4. Complete the Preliminary Screening to identify potential noise generators in the vicinity (1000' from a major road, 3000' from a railroad, or 15 miles from an airport).

Indicate the findings of the Preliminary Screening below:

There are no noise generators found within the threshold distances above.

✓ Noise generators were found within the threshold distances.

### 5. Complete the Preliminary Screening to identify potential noise generators in the

Acceptable: (65 decibels or less; the ceiling may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

 Normally Unacceptable: (Above 65 decibels but not exceeding 75 decibels; the floor may be shifted to 70 decibels in circumstances described in §24 CFR 51.105(a))

Indicate noise level here: 67

Document and upload noise analysis, including noise level and data used to complete the analysis below.

Unacceptable: (Above 75 decibels)

HUD strongly encourages conversion of noise-exposed sites to land uses compatible with high noise levels.

Check here to affirm that you have considered converting this property to a non-residential use compatible with high noise levels.

Indicate noise level here: 67

Document and upload noise analysis, including noise level and data used to complete the analysis below.

6. HUD strongly encourages mitigation be used to eliminate adverse noise impacts. Explain in detail the exact measures that must be implemented to mitigate for the impact or effect, including the timeline for implementation. This information will be automatically included in the Mitigation summary for the environmental review.

Mitigation as follows will be implemented:

✓ No mitigation is necessary.

### Explain why mitigation will not be made here:

The project scope involves rehabilitation; therefore, mitigation is not required. Additionally, noise attenuation measures will be incorporated to reduce the interior noise level to 45 dB.

Based on the response, the review is in compliance with this section.

### Screen Summary

### Compliance Determination

The Subject Property is near Grand River Avenue and West Outer Drive, which are considered busy roads due to their size and traffic volume. The site is also within proximity of two airports. Coleman A. Young International Airport (DET) is located approximately 11.05 miles east of the project and is within 15 miles (the MSHDA/HUD civil airport distance criterion) of the development. Based on the Noise Contour Map for the airport, the site is not within a distance of concern. Detroit Metro Airport (DTW) is located approximately 13.38 miles south of the project and is within 15 miles (the MSHDA/HUD civil airport distance criterion) of the development. Based on the Noise Contour Map for the airport, the site is not considered to represent a noise concern to the property. The noise for the roadway was projected to levels in 2032 and was found to be in the normally unacceptable range at 67.0 dB. The Noise Assessment is included in Attachment K. The HUD Sound Transmission Classification Assessment Tool (STraCAT) was used to determine the noise attenuation for the building walls to bring the noise levels within acceptable levels for interiors. The calculations were made from the wall assemblies the NAL was determined; units on the northeastern corner of building 9710. The building materials include 522 square feet of wall construction with a Sound Transmission Class (STC) rating of 51 (4x8x18" concrete block with common brick all mortared together). These units also include 8 exterior windows with a STC of 35 (approximately 3'x5' aluminum sash, double hung window each sash has one 7/16" glass panel and one storm sash glazed single strength upper sash  $1 \frac{1}{2}$  and lower sash  $2 \frac{13}{16}$  airspaces). The combined STC for this wall assembly is 41.03. The wall components will bring noise levels to acceptable interior standards of below 45 dB. No further attenuation is needed for the site (Attachment K).

### Supporting documentation

Attachment K - STraCAT Report.pdf Attachment K - Noise Assessment.pdf

### Are formal compliance steps or mitigation required?

Yes

✓ No

### **Sole Source Aquifers**

General requirements	Legislation	Regulation
The Safe Drinking Water Act of 1974	Safe Drinking Water	40 CFR Part 149
protects drinking water systems	Act of 1974 (42 U.S.C.	
which are the sole or principal	201, 300f et seq., and	
drinking water source for an area	21 U.S.C. 349)	
and which, if contaminated, would		
create a significant hazard to public		
health.		

1. Does the project consist solely of acquisition, leasing, or rehabilitation of an existing building(s)?

✓ Yes

Based on the response, the review is in compliance with this section.

No

### Screen Summary

### **Compliance Determination**

There are no sole source aquifers located in Michigan; therefore, the project will have no impact on sole source aquifers (Attachment L).

### Supporting documentation

### Attachment L - Sole Source Aquifer.pdf

### Are formal compliance steps or mitigation required?

Yes

✓ No

### Wetlands Protection

General requirements	Legislation	Regulation
Executive Order 11990 discourages direct or	Executive Order	24 CFR 55.20 can be
indirect support of new construction impacting	11990	used for general
wetlands wherever there is a practicable		guidance regarding
alternative. The Fish and Wildlife Service's		the 8 Step Process.
National Wetlands Inventory can be used as a		
primary screening tool, but observed or known		
wetlands not indicated on NWI maps must also		
be processed Off-site impacts that result in		
draining, impounding, or destroying wetlands		
must also be processed.		

1. Does this project involve new construction as defined in Executive Order 11990, expansion of a building's footprint, or ground disturbance? The term "new construction" shall include draining, dredging, channelizing, filling, diking, impounding, and related activities and any structures or facilities begun or authorized after the effective date of the Order

### ✓ No

Based on the response, the review is in compliance with this section.

Yes

### Screen Summary

### **Compliance Determination**

The project does not involve new construction. Additionally, no wetlands are present on the property according to the National Wetlands Inventory Map. Therefore, the project will have no impact on wetlands (Attachment M).

### Supporting documentation

### Attachment M - Wetland Mapper.pdf

### Are formal compliance steps or mitigation required?

Yes

### Wild and Scenic Rivers Act

General requirements	Legislation	Regulation
The Wild and Scenic Rivers Act	The Wild and Scenic Rivers	36 CFR Part 297
provides federal protection for	Act (16 U.S.C. 1271-1287),	
certain free-flowing, wild, scenic	particularly section 7(b) and	
and recreational rivers	(c) (16 U.S.C. 1278(b) and (c))	
designated as components or		
potential components of the		
National Wild and Scenic Rivers		
System (NWSRS) from the effects		
of construction or development.		

### 1. Is your project within proximity of a NWSRS river?

✓ No

Yes, the project is in proximity of a Designated Wild and Scenic River or Study Wild and Scenic River.

Yes, the project is in proximity of a Nationwide Rivers Inventory (NRI) River.

### Screen Summary

### **Compliance Determination**

There are no designated Wild and Scenic Rivers in Detroit or Wayne County. Therefore, the project will not impact wild & scenic rivers (Attachment N).

### Supporting documentation

### Attachment N - Wild and Scenic Rivers.pdf

### Are formal compliance steps or mitigation required?

Yes

### **Environmental Justice**

General requirements	Legislation	Regulation
Determine if the project	Executive Order 12898	
creates adverse environmental		
impacts upon a low-income or		
minority community. If it		
does, engage the community		
in meaningful participation		
about mitigating the impacts		
or move the project.		

HUD strongly encourages starting the Environmental Justice analysis only after all other laws and authorities, including Environmental Assessment factors if necessary, have been completed.

# **1.** Were any adverse environmental impacts identified in any other compliance review portion of this project's total environmental review?

- Yes
- ✓ No

Based on the response, the review is in compliance with this section.

### Screen Summary

### Compliance Determination

This project consists of rehabilitation of two unoccupied apartment buildings into 33 low-income housing units. This project is intended to increase the amount of quality affordable housing options available in Detroit. The project will not have a disproportionately high adverse effect on human health or environment of minority populations and/or low-income populations (Attachment O).

### Supporting documentation

### Attachment O - EJ Screen Report.pdf

### Are formal compliance steps or mitigation required?

Yes



U.S. Department of Housing and Urban Development 451 Seventh Street, SW Washington, DC 20410\_ www.hud.gov espanol.hud.gov

### Environmental Assessment Determinations and Compliance Findings for HUD-assisted Projects 24 CFR Part 58

### **Project Information**

Project Name: Grandmont-Rosedale-II

HEROS Number: 90000010269890

Project Location: 9710-9730 Outer Drive, Detroit, MI 48223

### Additional Location Information:

N/A

### Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]:

The proposed project is located at 9710-9730 West Outer Drive, Detroit, Wayne County, MI, 48226. Grandmont Rosedale Development Corporation will rehabilitate the exterior and interior of two existing, vacant, historic apartment buildings. 9710 West Outer Drive consists of six large one-bedroom apartments of 697 square feet each and four small one-bedroom apartments of 536 square feet each for a total of 10 one bedroom apartments of 6,326 square feet. 9730 West Outer Drive consists of six two-bedroom apartments of 797 square feet each, 11 one-bedroom apartments of 637 square feet each, two small one-bedroom apartments of 429 square feet each for a total of 1 a total of 23 apartments of 14,483 square feet. All 33 apartments are to be affordable units. The rehabilitation includes window replacement, exterior repairs, interior MEP upgrades, new kitchens, and new bathroom fixtures. The existing parking lot at the rear of the property will have new lighting and new fencing. The walkways around the building are proposed to be replaced in their existing configuration.

### **Funding Information**

Grant Number	HUD Program	Program Name
	Community Planning and	
M21MC260202	Development (CPD)	HOME Program

### Estimated Total HUD Funded Amount: \$1,350,000.00

Estimated Total Project Cost [24 CFR 58.2 (a) (5)]: \$15,266,933.00

### Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the

above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

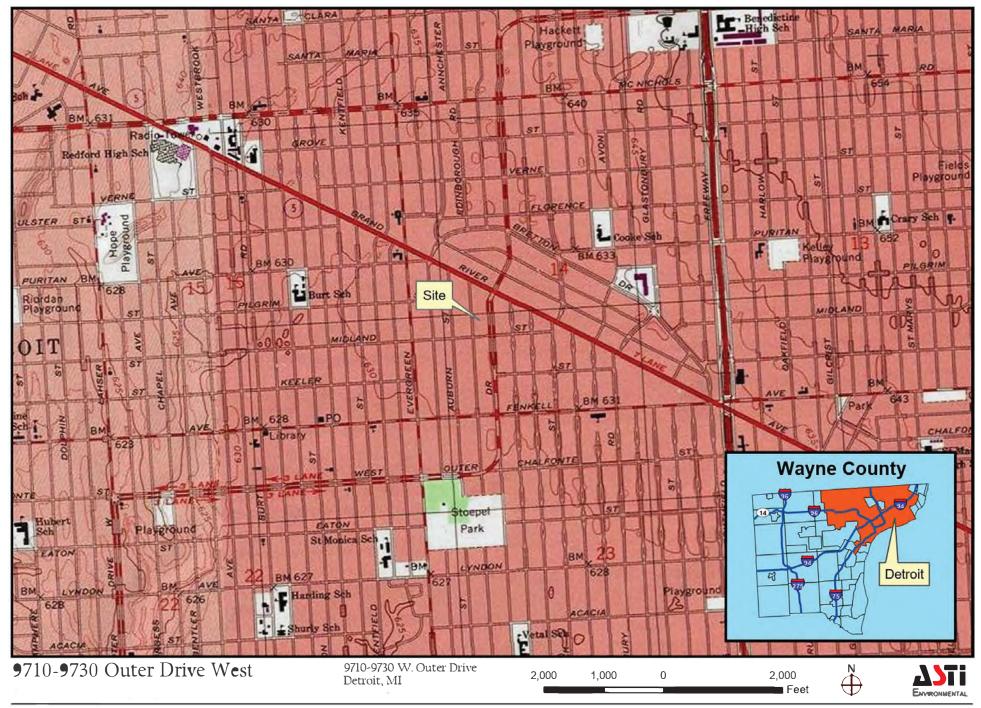
Law, Authority, or Factor	Mitigation Measure or Condition

**Project Mitigation Plan** 

### Determination:

X	Finding of No Significant Impact [24 CFR 58.40(g)(1); 40 CFR 15 in a significant impact on the quality of human environment	508.13] The project will not result	
	Finding of Significant Impact		
Prepare	r Signature:	_Date: 8/24/2022	
Name / Title/ Organization:Kim_Siegel/ / DETROIT			
Name / Title/ Organization:       Kim Siegel / DETROIT         Gertifying Officer Signature:       Gertifying Officer Signature:			
Name/Title: Julie Schneider, Director, Housing and Revitalization Department			

This original, signed document and related supporting material must be retained on file by the Responsible Entity in an Environment Review Record (ERR) for the activity / project (ref: 24 CFR Part 58.38) and in accordance with recordkeeping requirements for the HUD program(s).



Site Location Map



Created for: Grandmont Rosedale Development Corporation Created by: RMH, March 23, 2022, ASTI Project 1-11641

Area of Potential Effects Map

# Grandmont Rosedale Park Collective II

PERMIT 12/30/2021



SHEET INDEX SHEET NUMBER SHEET NAME 00 GENERAL AG.0.0 COVER CODE SUMMARY AG.0.1 LIFE SAFETY PLANS AG.0.2 AG.0.3 GENERAL NOTES AG.0.4 MOUNTING HEIGHTS AND CLEARANCES 01 CIVIL C-1.0 TOPOGRAPHIC SURVEY C-2.0 DEMOLITION PLAN C-3.0 DIMENSIONAL SITE PLAN C-4.0 GRADING PLAN L-1.0 LANDSCAPE PLAN LANDSCAPE SPECIFICATIONS L-2.1 LANDSCAPE SPECIFICATIONS L-2.2 03 ARCHITECTURAL ARCHITECTURAL SITE PLAN A0.1 AD1.0 LEVEL 00 DEMOLITION PLAN AD1.1 LEVEL 01 DEMOLITION PLAN AD1.2 LEVEL 02 DEMOLITION PLAN A1.0 LEVEL 00 FLOOR PLAN A1.1 LEVEL 01 FLOOR PLAN LEVEL 02 FLOOR PLAN A1.2 A1.3 ROOF PLAN LEVEL 00 REFLECTED CEILING PLAN A2.0 LEVEL 01 REFLECTED CEILING PLAN A2.1 LEVEL 02 REFLECTED CEILING PLAN A2.2 A3.0.1 **EXTERIOR ELEVATIONS - 9730** A3.0.2 **EXTERIOR ELEVATIONS - 9710** WINDOW TYPES & SCHEDULE A4.0.1 A4.0.2 WINDOW DETAILS A4.0.3 WINDOW DETAILS A4.3.2 EXTERIOR DETAILS A6.0.1 UNIT PLAN AND RCP A6.0.2 UNIT PLAN AND RCP UNIT PLAN AND RCP A6.0.3 A6.0.4 UNIT PLAN AND RCP A6.0.5 UNIT PLAN AND RCP A6.1.0 TYPICAL UNIT KITCHENS AND BATHS A6.1.1 TYPICAL UNIT KITCHENS AND BATHS A6.3.1 INTERIOR ELEVATIONS A7.1.1 DOOR SCHEDULE & DETAILS MATERIAL INDEX & FINISH SCHEDULE A7.2.1 A7.3.1 INTERIOR PARTITIONS A7.4.1 INTERIOR DETAILS A7.7.0 SIGNAGE PLAN 06 MECHANICAL M0.0 MECHANICAL LEGEND M0.1 MECHANICAL SPECIFICATIONS M0.2 MECHANICAL SPECIFICATIONS MD1.0 LEVEL 00 MECHANICAL DEMOLITION PLAN MD1.1 LEVEL 01 MECHANICAL DEMOLITION PLAN MD1.2 LEVEL 02 MECHANICAL DEMOLITION PLAN LEVEL 00 SANITARY AND VENT PLAN M1.0 LEVEL 01 SANITARY AND VENT PLAN M1.1 LEVEL 02 SANITARY AND VENT PLAN M1.2 LEVEL 00 DOMESTIC WATER PLAN M2.0 M2.1 LEVEL 01 DOMESTIC WATER PLAN M2.2 LEVEL 02 DOMESTIC WATER PLAN M3.0 LEVEL 00 HVAC PLAN LEVEL 01 HVAC PLAN M3.1 M3.2 LEVEL 02 HVAC PLAN M4.0 ENLARGED HVAC PLANS M4 1 ENLARGED HVAC PLANS ENLARGED HVAC PLANS M4.2 M4.3 ENLARGED HVAC PLANS MECHANICAL SCHEDULES M5.0 MECHANICAL DETAILS M6.0 LEVEL 00 FIRE PROTECTION PLAN FP1.0 FP1.1 LEVEL 01 FIRE PROTECTION PLAN LEVEL 02 FIRE PROTECTION PLAN FP1.2 07 ELECTRICAL ELECTRICAL LEGEND, SHEET INDEX, TABLES, AND GENERAL NOTES E0.0 ELECTRICAL RISER DIAGRAM E0.1 ELECTRICAL SCHEDULES E0.2 ELECTRICAL SCHEDULES E0.3 SITE PLAN - ELECTRICAL E1.0 E2.0 LEVEL 00 FLOOR PLAN LIGHTING LEVEL 01 FLOOR PLAN LIGHTING E2.1 E2.2 LEVEL 02 FLOOR PLAN LIGHTING E3.0 LEVEL 00 FLOOR PLAN POWER E3.1 LEVEL 01 FLOOR PLAN POWER LEVEL 02 FLOOR PLAN POWER E3.2 ENLARGED PLAN ELECTRICALS E4.0 ENLARGED PLAN ELECTRICALS E4.1

ENLARGED PLAN ELECTRICALS

ENLARGED PLAN ELECTRICALS

ELECTRICAL SPECIFICATIONS

ELECTRICAL DETAILS

E4.2 E4.3

E5.0

E6.0

## Grandmont Rosedale Park Collective II

# 9710 - 9730 W Outer Dr. Detroit, MI 48223



OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com

CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com

MEP ENGINEERING MA ENGINEERING 180 High Oak Road Bloomfield Hills, MI 48304 248-258-1610 phone www.ma-engineering.com

STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com

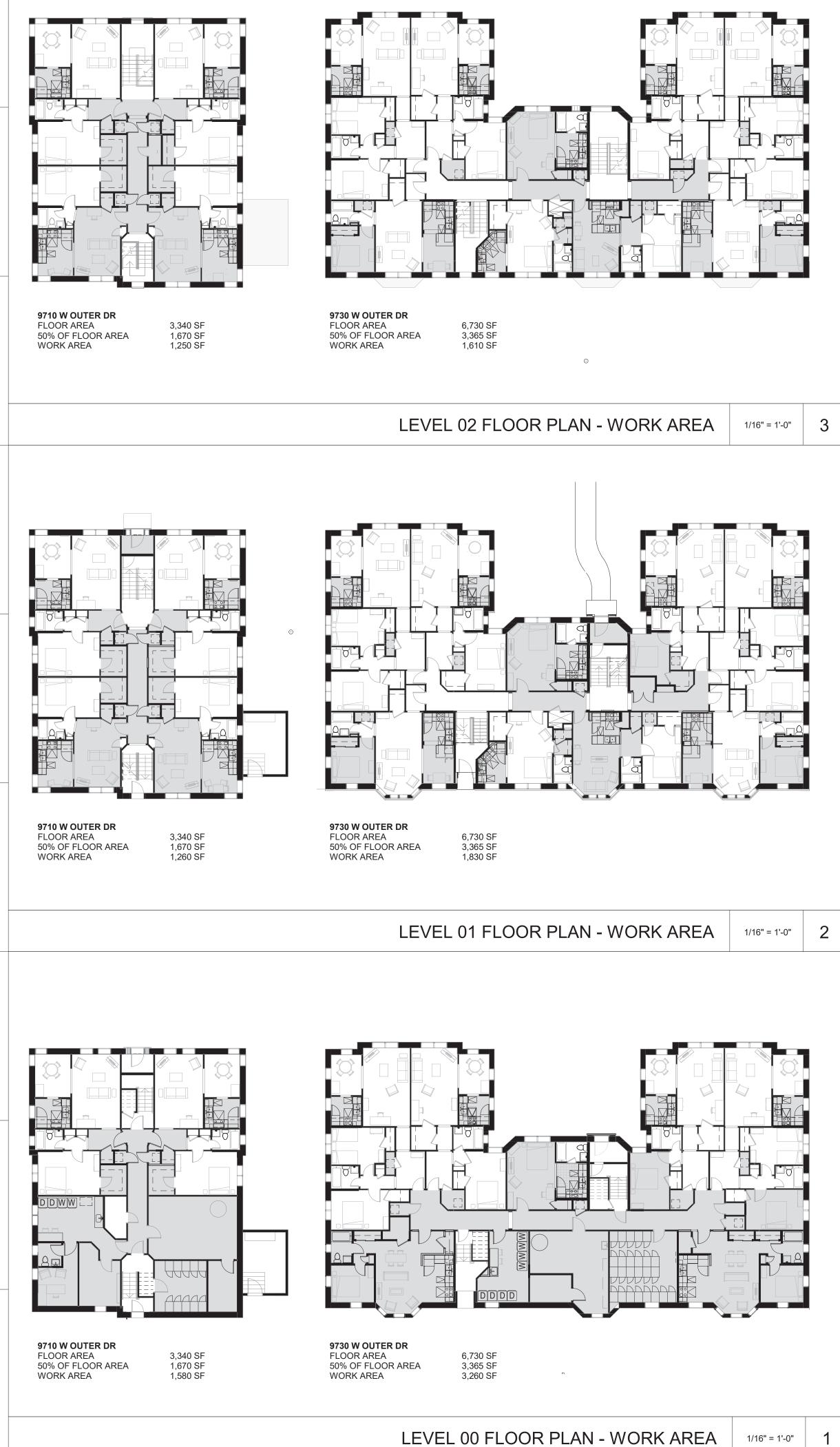
Key Plan

Registration Seal



1					
	12/30/2021	PERMIT			
Proje	ct Number: 20.	005.02			
Drawr	n By: INTOT	O Approved By: INTOTO			
Scale					
	Drawing Title				
COVER					
Drawi	Drawing No:				
_					
Λ					
	AG.0.0				

# MI REHAB CODE - LEVEL 02 ALTERATIONS - WORK AREA



9

4:31:59 PM TOTO STUDIO 2021



9710 & 9730 W OUTER DR DETROIT, MI 48223

EXISTING MULTIFAMILY HOUSING, BUILT 1940 & 1939 ROSEDALE PARK HISTORIC DISTRICT PARCEL ID: 22125673.001

W OUTER DRIVE S 66 FT 50 N 66 FT 51 EXC OUTER DRIVE AS WD EDWARD J MINOCKS SUB L28 P94 PLATS, W C R 22/449 132 X 202.78A

PARCEL SPLIT IN PROGRESS (SEE DRAWINGS FOR NEW DEVELOPMENT PROPERTY LINE)

### APPLICABLE CODES

2015 Michigan Rebabilitation Code 2015 Michigan Building Code 2015 Michigan Residential Code 2015 Michigan Mechanical Code 2015 Michigan Plumbing Code 2014 National Electrical Code & The Michigan Part 8 Electrical Rules 2015 Michigan Uniform Energy Code Effective February 8, 2016 2021 International Building Code

Effective December 13, 2016 Effective April 20, 2017 Effective February 8, 2016 Effective April 12, 2017 Effective April 20, 2015 Effective June 18, 2015

International Fire Code International Fuel Gas Code International Property Maintenance Code

International Private Sewage Disposal Code NFPA 70: NEC

# BUILDING CODE SUMMARY

BUILDING CODE SUMMARY	
MICHIGAN BUILDING CODE 2015 EDITION WITH MICHIGAN	REHABILITATION CO
BUILDING AREA (506)	ALLOWABLE AREA: PROVIDED: 9710: 1
BUILDING USE GROUP (CHAPTER 3)	RESIDENTIAL GRO
TYPE OF CONSTRUCTION (CHAPTER 6)	VB
FIRE SUPPRESSION PROVIDED (SECTION 903)	AUTOMATIC SPRIN
ALLOWABLE NUMBER OF STORIES (TABLES 504.3, 504.4)	9710: 3 STORIES AL 3 EXISTING STORIE
SPECIAL PROVISIONS (HEIGHT & AREA ) (SECTION 510)	N/A
TOTAL ALLOWABLE BUILDING HEIGHT	60' ALLOWED; 35' E
TABULAR FLOOR AREA PER STORY (TABLE 506.2)	7,000 SF/STORY AL
ACTUAL FLOOR AREA PER STORY	<b>9710:</b> BASEMENT 3,3 1ST FLOOR 3,3 2ND FLOOR 3,3
TOTAL AREA	10,0
OCCUPANT LOAD PER STORY (TABLE 1004.1.2)	<b>9710:</b> BASEMENT 11 1ST FLOOR 13 2ND FLOOR 13
TOTAL OCCUPANT LOAD	37 PE
COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1) MAXIMUM LENGTH OF EXIT TRAVEL (TABLE 1017.2)	125'-0" 250'-0"
MAXIMUM LENGTH OF DEAD END CORRIDOR (PARA 1020.4)	50'-0"
CAPACITY OF EGRESS COMPONENTS	
EXIT ACCESS CORRIDORS (PARA 1005.1 & TABLE 1020.2.)	0.2" PER OCCUPA 36" MINIMUM IN M FOR NEW CONST
STAIRWAYS (PARA 1005.3.1, 1011.2)	0.3" PER OCCUPA 44" WIDE MINIMUI FOR NEW CONST
DOORS (PARA 1005.3.2 & PARA 1010.1.1)	0.2" PER OCCUPA 32" WIDE MIN. & 8 FOR NEW CONST
FIRE RESISTANCE RATINGS OF EGRESS COMPONENTS	
CORRIDORS (TABLE 1020.1)	N/A, WOOD LATH &
EXIT PASSAGEWAYS (PARA 1024.3)	N/A, WOOD LATH &
STAIR SHAFTS (PARA 1023.2)	N/A, WOOD LATH &
HORIZONTAL EXITS (PARA 1026.2)	N/A
AREA OF REFUGE (PARA 1009.6.4)	NOT REQUIRED IN A (PARA 1009.6.4 EXC

### FIRE RESISTANCE RATINGS OF FIRE SEPARATIONS

_						
	SHAFTS - OTHER THA (PARA 713.4)	AN S	TAIRS		N	/A, WOOD LATH &
	SHAFTS - ELEVATOR LOBBY (PARA 713.14.1)				N	/A
-	ATRIUMS (PARA 404.6)				N	/A
-	FURNACE ROOMS OV (TABLE 509)	VER 4	400,000 BTU		N	/A, AUTOMATIC SF
	BOILER ROOMS OVE (TABLE 509)	R 15	PSI & 10 HP		N,	A, AUTOMATIC SF
	WASTE & LINEN COLI (TABLE 509)	LECT	ION ROOMS		N,	/A
	FIRE WALLS (TABLE 706.4)				N	/A
-	EXTERIOR WALLS (TABLE 602)				-	HOUR WITH FIRE QUAL TO 10'
	FIRE RESISTANC	E RA	TINGS OF STRUCT	URAL ELEMEN	ITS	
-	PRIMARY STRUCTUR (TABLE 601)	AL F	RAME		0	HOUR
	EXTERIOR BEARING FL WALLS, COLUMNS, BE		PPORTING MORE T OOR, COLUMNS OF ARING WALLS	-	-	HOUR EXTERIOR HOUR INTERIOR E
	BEAMS, GIRDERS, TRUSSES, AND ARCHES (TABLE 601)				0	HOUR
	EXTERIOR NON BEAF (TABLE 602)	ring	WALLS		0	HOUR
-	INTERIOR NON-BEAR CONSTRUCTION, & R			TABLE 601)	0	HOUR
	OCCUPANCY: Reside	entia	I R-2	OCCUPAN	TS	: 87
			WATER CLOSET		_	BATHTUBS OR
	Apartment House					

1/10 - 1-0	5

1/16" = 1'-0"

BUILDING CODE SUMMARY			Grandmont Rosedale Park Collective II
MICHIGAN BUILDING CODE 2015 EDITION WITH MICHIGAN	REHABILITATION CODE 2015 EDITION	REMARKS	
BUILDING AREA (506)	ALLOWABLE AREA: 9710: 17,675 SF; 9730: 20,300 SF PROVIDED: 9710: 10,020 SF; 9730: 20,123 SF	Two separate buildings in project. Code comments apply to both buildings unless otherwise noted.	
BUILDING USE GROUP (CHAPTER 3)	RESIDENTIAL GROUP (R-2)	Both buildings are in a historic district (REHAB Chap. 12) Renovation strategy: Repair + Level 02 Alterations (Chap. 8)	9710 - 9730 W Outer
TYPE OF CONSTRUCTION (CHAPTER 6)	VB	Existing construction. Brick veneer on wood stud.	Dr. Detroit, MI 48223
FIRE SUPPRESSION PROVIDED (SECTION 903)	AUTOMATIC SPRINKLER SYSTEM THROUGHOUT, NFPA 13R		
ALLOWABLE NUMBER OF STORIES (TABLES 504.3, 504.4)	9710: 3 STORIES ALLOWED; 9730: 4 STORIES ALLOWED; 3 EXISTING STORIES PROVIDED FOR EACH BUILDING	2 1/2 stories above grade existing (3 stories total)	
SPECIAL PROVISIONS (HEIGHT & AREA ) (SECTION 510)	N/A		210010
TOTAL ALLOWABLE BUILDING HEIGHT	60' ALLOWED; 35' EXISTING PROVIDED		OWNER
TABULAR FLOOR AREA PER STORY (TABLE 506.2)	7,000 SF/STORY ALLOWED		GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223
ACTUAL FLOOR AREA PER STORY	9710: 9730:		H 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com
	BASEMENT         3,340 SF         BASEMENT         6,730 SF           1ST FLOOR         3,340 SF         1ST FLOOR         6,730 SF           2ND FLOOR         3,340 SF         2ND FLOOR         6,663 SF		ARCHITECT
TOTAL AREA	10,020 SF 20,123 SF		INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202
OCCUPANT LOAD PER STORY			313-395-5030 phone www.intotostudio.com
(TABLE 1004.1.2)	9710:         9730:           BASEMENT         11         BASEMENT         26           1ST FLOOR         13         1ST FLOOR         27		<b>CIVIL ENGINEERING</b> PEA GROUP 45 W. Grand River Ave.
TOTAL OCCUPANT LOAD	2ND FLOOR         13         2ND FLOOR         27           37         80		Suite 501 Detroit, MI 48226 313-769-5770 phone
COMMON PATH OF EGRESS TRAVEL (TABLE 1006.2.1)	PEOPLE PEOPLE 125'-0"		www.peagroup.com
MAXIMUM LENGTH OF EXIT TRAVEL (TABLE 1017.2)	250'-0"		MA ENGINEERING 400 S. Old Woodward Ave Suite 100
MAXIMUM LENGTH OF DEAD END CORRIDOR (PARA 1020.4)	50'-0"		Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com
CAPACITY OF EGRESS COMPONENTS			STRUCTURAL ENGINEERING RESURGET ENGINEERING
EXIT ACCESS CORRIDORS (PARA 1005.1 & TABLE 1020.2.)	0.2" PER OCCUPANT 36" MINIMUM IN MAIN CORRIDORS & WITHIN DWELLING UNITS FOR NEW CONSTRUCTION	MICHIGAN BUILDING CODE 2015 EDITION: CORRIDORS OUTSIDE OF LEVEL 02 ALTERATIONS, EXISTING TO REMAIN	4219 Woodward Ave. Suite 306
STAIRWAYS (PARA 1005.3.1, 1011.2)	0.3" PER OCCUPANT 44" WIDE MINIMUM IN EACH STAIR FOR NEW CONSTRUCTION	MICHIGAN BUILDING CODE 2015 EDITION: ALL <b>STAIRWAYS</b> IN THE PROJECT ARE OUTSIDE OF LEVEL 02 ALTERATIONS, EXISTING TO REMAIN	Detroit, MI 48201         F       313-315-3290 phone         www.resurget-engineering.com
DOORS (PARA 1005.3.2 & PARA 1010.1.1)	0.2" PER OCCUPANT 32" WIDE MIN. & 80" HEIGHT MIN. (REQ'D MEANS OF EGRESS) FOR NEW CONSTRUCTION	MICHIGAN BUILDING CODE 2015 EDITION: ALL EGRESS DOORS & OTHER EXIST. DOORS OUTSIDE OF LEVEL 02 ALTERATIONS, EXISTING TO REMAIN	
FIRE RESISTANCE RATINGS OF EGRESS COMPONENTS	1		
CORRIDORS (TABLE 1020.1)	N/A, WOOD LATH & PLASTER	MICHIGAN BUILDING CODE 2015 EDITION: (1203.3) Existing door openings and corridor and stairway widths less than those specified elsewhere in this code may be	
EXIT PASSAGEWAYS (PARA 1024.3)	N/A, WOOD LATH & PLASTER	approved, provided that, in the opinion of the code official, there is sufficient width and height for a person to pass through the opening or traverse the means of egress. When approved	Key Plan
STAIR SHAFTS (PARA 1023.2)	N/A, WOOD LATH & PLASTER	by the code official, the front or main exit doors need not swing in the direction of the path of exit travel, provided that other approved means of egress having sufficient capacity to serve the total ecoupant load are provided	
HORIZONTAL EXITS (PARA 1026.2)	N/A	<ul> <li>the total occupant load are provided.</li> <li>(1203.7) Where 1-hour fire-resistance-rated construction is required by these provisions, it need not be provided, regardless of construction or occupancy, where the existing</li> </ul>	<b>B</b>
AREA OF REFUGE (PARA 1009.6.4)	NOT REQUIRED IN ALTERATIONS OF EXISTING BUILDINGS (PARA 1009.6.4 EXCEPTION #1)	wall and ceiling finish is wood or metal lath and plaster. (1203.12) Every historical building that cannot be made to conform to the construction requirements specified in the	
		International Building Code for the occupancy or use and that constitutes a distinct fire hazard shall be deemed to be in compliance if provided with an approved automatic fire-	
FIRE RESISTANCE RATINGS OF FIRE SEPARATIONS SHAFTS - OTHER THAN STAIRS (PARA 713.4)	N/A, WOOD LATH & PLASTER	extinguishing system. MICHIGAN BUILDING CODE 2015 EDITION (1203.7) (see above)	Registration Seal
SHAFTS - ELEVATOR LOBBY (PARA 713.14.1)	N/A		D BENJAMIN
ATRIUMS (PARA 404.6)	N/A		* ELLEFSON
FURNACE ROOMS OVER 400,000 BTU	N/A, AUTOMATIC SPRINKLER SYSTEM		SED ARCHING
(TABLE 509) BOILER ROOMS OVER 15 PSI & 10 HP (TABLE 509)	N/A, AUTOMATIC SPRINKLER SYSTEM		000000000000
WASTE & LINEN COLLECTION ROOMS	N/A		No.         Date         Description           1         12/30/2021         PERMIT
(TABLE 509) FIRE WALLS (TABLE 706.4)	N/A		
EXTERIOR WALLS (TABLE 602)	0-HOUR WITH FIRE SEPARATION DISTANCE GREATER THAN OR EQUAL TO 10'	MICHIGAN BUILDING CODE 2015 EDITION (1203.12) (see above)	
FIRE RESISTANCE RATINGS OF STRUCTURAL ELEMEN			
PRIMARY STRUCTURAL FRAME (TABLE 601)	0 HOUR		
INTERIOR AND EXTERIOR BEARING WALLS, COLUMNS, BEAMS, GIRDERS, UNDER SUPPORTING MORE THAN ONE FLOOR, COLUMNS OR OTHER BEARING WALLS	0 HOUR EXTERIOR BEARING WALLS 0 HOUR INTERIOR BEARING WALLS	_	
TRUSSES, AND ARCHES (TABLE 601)	0 HOUR		
EXTERIOR NON BEARING WALLS (TABLE 602)	0 HOUR		B Project Number: 20.005.02
INTERIOR NON-BEARING WALLS, FLOOR CONSTRUCTION, & ROOF CONSTRUCTION (TABLE 601)	0 HOUR		Drawn By: INTOTO Approved By: INTOTO Scale: As indicated
OCCUPANCY: Residential R-2 OCCUPAN WATER CLOSET LAVATORIE			Drawing Title CODE SUMMARY
Apartment House MALE FEMALE MALE FEMAL	BATTTODS OK DRINKING OTHER		Drawing No:
REQUIRED:     1 / Unit     1 / Unit       * 1 kitchen sink per dwelling unit; 1 automatic clothes washer			AG.0.1
		1	

12

11

8

9

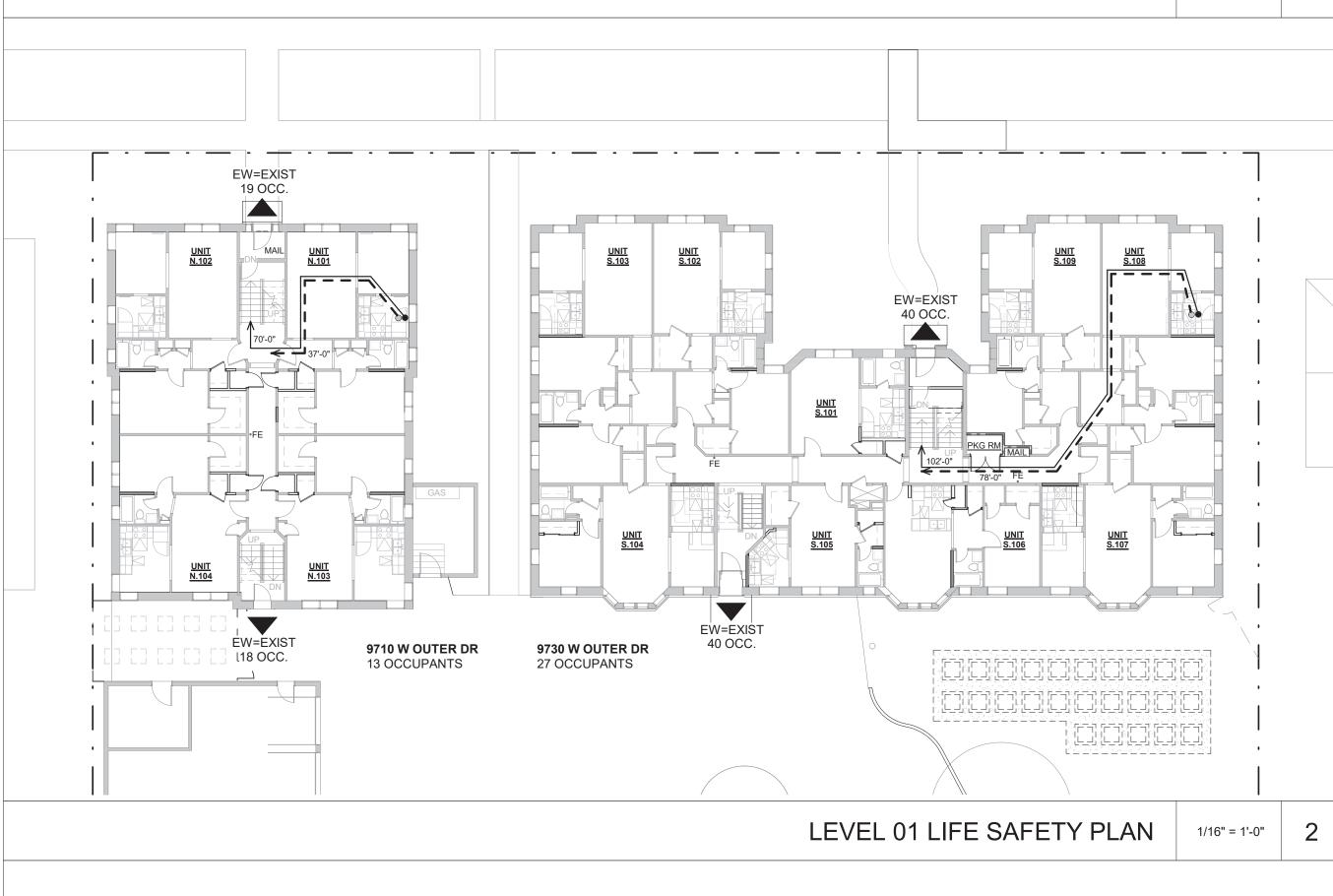


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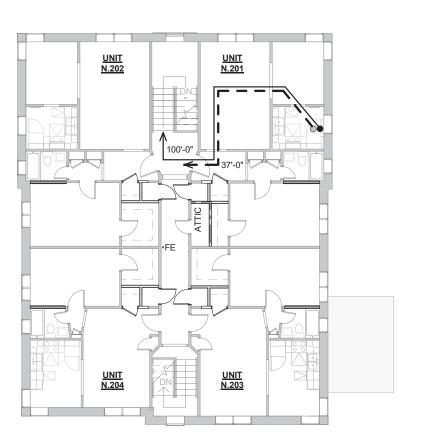
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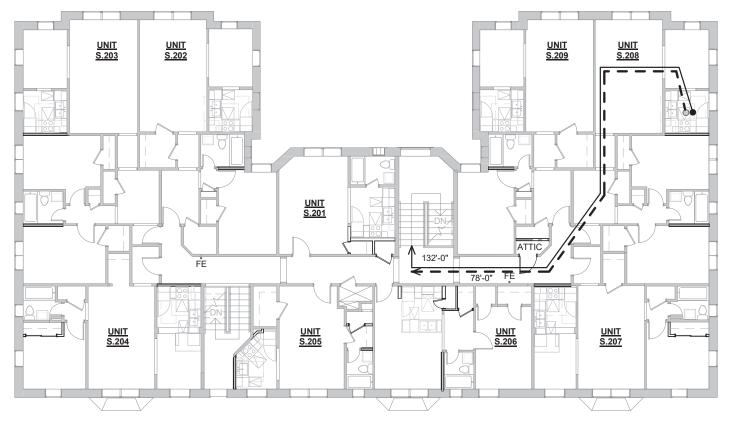


9710 W OUTER DR 13 OCCUPANTS

9730 W OUTER DR 27 OCCUPANTS

# LEVEL 02 LIFE SAFETY PLAN





1/16" = 1'-0"	3



# LIFE SAFETY PLAN LEGEND

REFER TO **AG.0.4** FOR WALL MOUNTED FIRE EQUIPMENT HEIGHTS FDC FIRE DEPARTMENT CONNECTION

FIRE EXTINGUISHER CABINET

FE FIRE EXTINGUISHER

XXX'-X" TRAVEL DISTANCE FROM THE MOST REMOTE POINT TO THE CLOSEST EXIT

XXX'-X" 

EXIT SYMBOL

EW=36"  $\longleftrightarrow$ 

FEC

225 / <300> EGRESS WIDTH, LOAD & CAPACITY

# OCCUPANT LOAD

LEVEL 00: RESIDENTIAL ACCESSORY STORAGE AND MECH	6000/200 = 1940/300 =	30 7
LEVEL 01: RESIDENTIAL	7940/200 =	40
LEVEL 02: RESIDENTIAL	7940/200 =	40
TOTAL OCCUPANCY		117

Grandmont Rosedale Park Collective II

9710 - 9730 W Outer Dr. Detroit, MI 48223



OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com

**CIVIL ENGINEERING** PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone

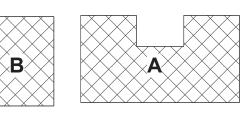
www.peagroup.com

MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com

STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone

www.resurget-engineering.com





**Registration Seal** 



No.	Date	Description
1	12/30/2021	PERMIT
	ct Number: 20.	
Drawı	By: INTOT	O Approved By: INTOTO
Scale	:	As indicated
Drawi	ng Title	
		FETY PLANS
_ ! !		
Irawi	ng No:	



1/16" = 1'-0"

**ABBREVIATIONS** 

10

	<u>ABBRE\</u>	<u>/IATIONS</u>
	AB ABR	ANCHOR BOLT ABRASIVE
	ABV AC A/C	ABOVE ACOUSTIC/ACOUSTICAL AIR CONDITIONING
	ACC ACH	ACCESS AIR CONDITIONING UNIT
	ADD ADH	ADDENDUM ADHESIVE
	ADJ AFF	ADJUSTABLE ABOVE FINISH FLOOR
	AGGR AHU	AGGREGATE AIR HANDLING UNIT
	ALT ALUM/AL AMP	ALTERNATE ALUMINUM AMPERE
	AMT ANCH	AMOUNT ANCHOR
	& ANOD	AND ANODIZED
	AP APPD	ACCESS PANEL APPROVED
	APPROX ARCH	APPROXIMATE ARCHITECT/ARCHITECTURAL
	ASPH ASSY	ASPHALT ASSEMBLY AT
	@ AUTO AVG	AUTOMATIC AVERAGE
_	B/B	BACK TO BACK
	BD BF	BOARD BARRIER FREE
	BIT BLDG	BITUMINOUS BUILDING
	BLK BLVD	BLOCK/BLOCKING BOULEVARD
	BM BOT	BEAM/BENCHMARK BOTTOM
	BR BRG	BEDROOM/BRASS BEARING BRICK
	BRK BRL BS	BEARING PLATE BOTH SIDES
	BSMT BTU	BASEMENT BRITISH THERMAL UNIT
_	BULL	BULLETIN
	CA CAB	COMPRESSED AIR CABINET
	CB C/C	CATCH BASIN/CHALKBOARD CENTER TO CENTER
	CCTV CEM	CLOSED CIRCUIT TELEVISION CEMENT CERAMIC
	CER CF CFL	CUBIC FEET COUNTER FLASHING
	CFM CG	CUBIC FEET PER MINUTE CORNER GUARD
	CH CI	COAT HOOK CAST IRON
	CIP CIR	CAST IRON PIPE/CAST IN PLAC CIRCLE/CIRCULAR
_	CJ CL	CONTROL JOINT CENTERLINE/CLASS
	CLG CLOS	CEILING CLOSET
	CLR CMU CNL	CLEAR CONCRETE MASONRY UNIT CHANNEL
	CNTR CO	COUNTER CLEAN OUT/COMPANY
	COL COMP	COLUMN COMPOSITION/COMPOSITE
	CONC	CONCRETE
	CONF	CONFERENCE CONNECTION
	CONST CONT	CONSTRUCTION CONTINUE/CONTINUOUS
_	CONTR CORR	CONTRACTOR CORRIDOR/CORRUGATED
	CP CPL	CONTROL PANEL CEMENT PLASTER
	CTR CW	CENTER/CENTERED COLDWATER CUBIC YARD
	CY CYC CYL	CYCLES CYLINDER
	D	DEEP/DEPTH
	DB DBL	DECIBEL DOUBLE
	DES DET	DESIGN DETAIL
	DH DIA	DOUBLE HUNG DIAMETER
_	DIAG DIFF DIM	DIAGONAL DIFFUSER DIMENSION
	DISC DISP	DISCONNECT DISPENSER/DISPOSAL
	DIV DL	DIVIDER/DIVISION DEAD LOAD
	DN DP	DOWN DAMPPROOFING
	DR DRN	DOOR/DRAIN/DINING ROOM DRAIN
	DS DT	DOWN SPOUT DRAIN TILE
	DUP DW DWG	DUPLICATE DISHWASHER DRAWING
	E	EAST
	EA EC	EACH ELECTRICAL CONTACTOR
	E/E EF	END TO END EACH FACE/EXHAUST FAN
	EG EIFS	EXHAUST GRILLE EXTERIOR INSULATION AND
	EJ	FINISH SYSTEM EXPANSION JOINT
	EL/ELEV ELAST ELEC	ELEVATION/ELEVATOR ELASTOMERIC ELECTRIC/ELECTRICAL
	EMER ENCL	EMERGENCY ENCLOSURE/ENCLOSED
	ENTR EP	ENTRANCE/ENTRY ELECTRICAL PANEL
	EPDM	ETHYLENE PROPYLENE DIENE MONOMER
	EQ EQUIP	EQUAL/EQUIVALENT EQUIPMENT
	ER ESC	EXHAUST REGISTER ESCALATOR
	EST ETC	ESTIMATE ETCETERA
	EW EWC EX	EACH WAY ELECTRIC WATER COOLER EXPOSED
	EX EXC EXH	EXPOSED EXCAVATED EXHAUST
	EXIST EXIST EXP	EXHAUST EXISTING EXPANSION
	EVT	

F FA FAB	DEGREES FAHRENHEIT FIRE ALARM FABRICATED
FACP FAS FD	FIRE ALARM CONTROL PANEL FASTENER FLOOR DRAIN FIRE DAMPER
FDAPR FDC FDN FE	FIRE DEPARTMENT CONNECTION FOUNDATION FIRE EXTINGUISHER
FEC FF F/F	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET FACTORY FINISH FACE TO FACE/FINISH TO FINISH
FFE FF&E FH	FINISH FLOOR ELEVATION FIXTURES, FURNISHINGS & EQUIPT FIRE HYDRANT
FHC FIG FIN	FIRE HOSE CABINET FIGURE FINISH/FINISHED
FIN FLR/FF FIXT FLASH	FINISH FLOOR FIXTURE FLASHING
FLG FLR FLUOR	FLOORING/FLASHING/FLANGE FLOOR FLUORESCENT
FPM FPR FR	FEET PER MINUTE FIREPROOF/FIREPROOFING FIRE RETARDANT
FRM FS FT FTG	FRAME FULL SIZE FEET/FOOT FOOTING
FURN FURR FUT	FURNISH/FURNISHED FURRING/FURRED FUTURE
FVC FVS	FIRE VALVE CABINET FIRE VALVE STATION
G GA GAL	GAS GAUGE GALLON
GALV GB GC	GALVANIZED GRAB BAR / GYPSUM BOARD GENERAL CONTRACTOR
GENL GF GFRC	GENERAL GROUND FACE GLASS FIBER REINFORCED CONCRETE
GL GND GPH	GLASS/GRID LINE GROUND GALLONS PER HOUR
GPM GWB GYP	GALLONS PER MINUTE GYPSUM WALL BOARD GYPSUM
H HB	HIGH HOSE BIBB
HC HD HDWD	HOLLOW CORE HEAVY DUTY HARDWOOD
HEX HHWR	HARDWARE HEXAGON HEATING HOT WATER RETURN
HHWS HM HORIZ HP	HEATING HOT WATER SUPPLY HOLLOW METAL HORIZONTAL HIGH POINT/HORSE POWER
HR HS HT	HOUR HEAT STRENGTHENED HEIGHT
HTG HTR H/V	HEATING HEATER HEATING AND VENTILATION
HVAC HVC	HEATING, VENTILATING & AIR CONDITIONING HOSE VALVE CABINET
HW HWH	HOT WATER HOT WATER HEATER
ID IE IN or " INCL	IDENTIFICATION INVERT ELEVATION INCH/INCHES INCLUDE/INCLUDING
INFO INSUL INT	INFORMATION INSULATATE/INSULATION INTERIOR/INTERNAL
INTER INV	INTERMEDIATE INVERT
JB JC JF JR	JUNCTION BOX/JOINT BACKER JANITOR CLOSET JOINT FILLER JUNIOR
JST JT	JOIST JOINT
K KD KIT	KIP (1000#) KNOCK DOWN KITCHEN
KO KP	KNOCK OUT KICK PLATE
LAB LAM LAV LEV	LABORATORY LAMINATE/LAMINATED LAVATORY LEVEL
LF LG LH	LINEAR FEET/FOOT LONG LEFT HAND
LIN LL	LEFT HAND REVERSE BEVEL LINEAR DIFFUSER LIVE LOAD
LLH LLV LOC	LONG LEG HORIZONTAL LONG LEG VERTICAL LOCATION
LP LSF LT LTG	LIGHTING PANEL/LOW POINT LIGHT GAUGE STEEL FRAMING LIGHT/LAUNDRY TRAY LIGHTING
LV LW	LOW VOLTAGE LIGHT WEIGHT
MACH MAINT MAS	MACHINE MAINTENANCE MASONRY
MATL MAU MAX	MATERIAL MAKE-UP AIR UNIT MAXIMUM
MC MCC MDOT	MEDICINE CABINET MOTOR CONTROL CENTER MICHIGAN DEPARTMENT OF TRANSPORTATION
MDS MECH MED	METAL DIVIDER STRIP MECHANICAL MEDIUM
MEMB MEZZ MFR	MEMBRANE MEZZANINE MANUFACTURER
MH MIN MISC	MANHOLE MINIMUM MISCELLANEOUS
MK ML mm	MARK METAL LATH MILLIMETER MASONRY OPENING
MO MOD MOV	MASONRY OPENING MODEL/MODULE MOVEABLE

METAL THRESHOLD MOUNTED MEETING METAL/METTALIC MULLION NORTH NOT APPLICABLE NATURAL NOT IN CONTRACT NUMBER NOMINAL NORMAL NOISE REDUCTION COEFFICIENT NOT TO SCALE OUTSIDE AIR/OVERALL ON CENTER OUTSIDE DIAMETER/OUTSIDE DIMENSION OUTSIDE FACE DIMENSION OFFICE **OPPOSITE HAND/OVERHEAD** OPERATOR/OPERATION OPENING OPPOSITE ORIGINAL OUNCE PUBLIC ADDRESS PASSAGE/PASSENGER PARTICLE BOARD PIECE/PIECES/PRECAST CONCRETE POUNDS PER CUBIC FOOT PRECAST CONCRETE PANEL PERFORATED PERIMETER PERMANENT PERPENDICULAR PAGE PARKING PLATE/PROPERTY LINE PLASTER PLATFORM PLUMBING POUNDS PER LINEAR FOOT PLYWOOD PANEL POLISHED PORTABLE POSITION/POSITIVE PREFABRICATED PARALLEL PROJECT/PROJECTION PROPERTY/PROPOSED POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POINT/PAINT PAINTED PARTITION PAVING POLYVINYLCLORIDE PAVEMENT QUANTITY QUARTER RISER RADIUS **RETURN AIR GRILLE** RAIN CONDUCTOR REFLECTED CEILING PLAN ROAD/ROOF DRAIN REINFORCEMENT BAR RECESS RECEIVE/RECEIVING REFER/REFERENCE REFLECTIVE/REFLECTED REFRIGERATOR REGISTER REINFORCED/REINFORCE/MENT REQUIRED RETURN **REVISED/REVISION** ROOFING RIGHT HAND RIGHT HAND REVERSE ROOM ROUND ROUGH OPENING RIGHT OF WAY ROOF TOP UNIT ROOF VENTILATION RAIN WATER CONDUCTOR SOUTH/STORM/SINK SUPPLY AIR SUPPLY AIR GRILLE SANITARY SOIL BEARING SOLID CORE SCHEDULE SUPPLY DUCT/DIFFUSER SECTION SQUARE FEET/SUPPLY FAN SHOWER SIMILAR SLAB ON GRADE SPACING SPECIFICATION SPRINKLER SPEAKER SQUARE STAGGERED SOUND TRANSMISSION CLASS STAINLESS STEEL STREET STANDARD STIFFENER STEEL STORAGE STRUCTURAL SUBSTATION SURFACE/SURFACING SWITCH SYMBOL/SYMMETRICAL SYSTEM THERMOSTAT/TREAD TOP OF TANGENT TOP AND BOTTOM TONGUE AND GROOVE TEST BOARING/TOWEL BAR TACKBOARD/TO BE DETERMINED TRENCH DRAIN TECHNICAL TELEPHONE TEMPERATURE/TEMPORARY/TEMPERED THICK/THICKNESS THRESHOLD

MT MTD

MTG MTL MULL

NA NAT NIC NO or # NOM NOR NRC NTS

OA

OC

OD

OF

OFF

OH OPER OPG OPP ORIG

ΟZ

PA

PASS

PBD PC PCF PCP PERF

PERIM PERM PERP

PG PKG

PL PLAS PLAT PLBG PLF PLWD

PNL

POL PORT POS

PRL

PROJ

PROP PSF

PSI

PT

PTD PTN PVG PVC

PVMT

QTY

QTR

RAD or R RAG RC RCP

RD

REBAR

REC

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REQD RET

REV RFG RH RHR RM

RND RO

ROW

RTU

RV

S

SA

SAG SAN SB

SC

SD

SF

SHR

SIM SOG SP

SPEC SPKLR SPKR SQ STAG

STC

STD STIFF STL

STOR STRL SUB SURF

SW

SYM

SYS

TAN T&B T&G

ΤВ

TD

TBD

TECH

TEL TEMP THK THR

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N

UC UG UH UL ULT

UON UR

YD YP YR

121

EXT

11

EXTERIOR

8

THROUGH/THROUGHOUT

TRANSOM/TRANSFORMER

TUBE SECTION/TUBE STEEL/

TANGENT POINT

THROUGH WALL

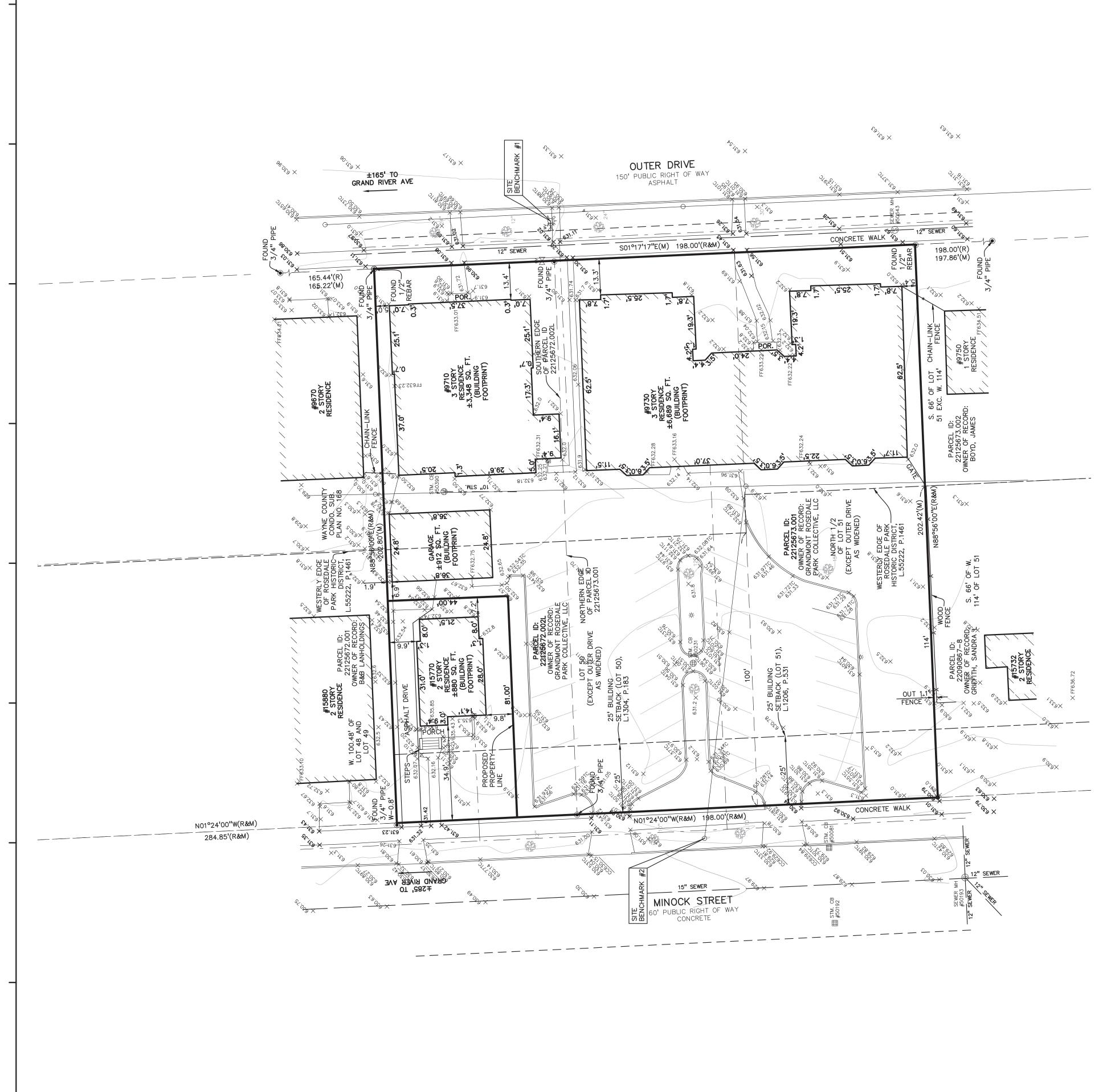
TELEVISION

TYPICAL

TOP OF STEEL/TOP OF SLAB

UC UG UH	UNDERCUT UNDERGROUND UNIT HEATER	EXTERIOR WALL - NAMING CONVENTION
UL ULT	UNDERWRITER'S LABORATORY ULTIMATE	EW 0.0 X . #
UNEX UON UR	UNEXCAVATED UNLESS OTHERWISE NOTED URINAL	
VAC	VACUUM	WALL STRUCTURE + NOMINAL THICKNESS
VAR VENT VERT	VARIABLE/VARIES VENTILATE/VENTILATION VERTICAL/VERTICALLY	EXTERIOR WALL
VEST VIF	VESTIBULE VERIFY IN FIELD	
VIT VOL VR	VITREOUS VOLUME VAPOR RETARDER	WALL STRUCTURE 1: METAL STUD
W	WIDE/WIDTH/WEST/WASTE/WATTS	2: WOOD STUD 3: CMU 4: CAST-IN-PLACE CONCRETE
W/ WC	WITH WATER CLOSET	5: STRUCTURAL PRECAST
WD WH WL	WOOD WALL HYDRANT WORKING LINE	CLADDING MATERIAL A: BRICK VENEER B: CMU
WM WO	WATER METER WINDOW OPENING	C: NATURAL STONE D: CAST STONE
W/O WP WP	WITHOUT WATERPROOF/WEATHERPROOF WORKING POINT	E: METAL COMPOSITE MATERIAL WALL PANELS F: METAL PLATE WALL PANELS G: METAL WALL PANELS
WR WSCT	WATER RESISTANT WAINSCOT	H: INSULATED METAL WALL PANELS J: ULTRA HIGH PERFORMANCE CONCRETE SIDING
WT WWF WWM	WEIGHT/WATERTIGHT WELDED WIRE FABRIC WELDED WIRE MESH	K: FIBER CEMENT SIDING L: COMPOSITE SIDING
WGL	WIRE GLASS	
YD YP YR	YARD YIELD POINT YEAR	NOTE: SEE LIFE SAFETY DRAWINGS FOR LOCATIONS OF FIRE RATED EXTERIOR WALLS
YS	YIELD STRENGTH	
MATERI	AL SYMBOLS	DRAWING SYMBOLS
	CONCRETE SECTION	ROOM NAME / Room name NUMBER 101
	PRECAST CONCRETE SECTION	VIEW NAME / NUMBER
	СМИ	View Name 1/8" = 1'-0" 1
	CMU SECTION	
	(SOLDIER COURSE) MASONRY VENEER	
	]	DETAIL / PLAN CALLOUT
	MASONRY SECTION	VIEW NUMBER ON SHEET SIM
	ALUMINUM	A101 INDICATES SHEET WHERE
	STEEL	DRAWN — — — —
	GLASS	NORTH ARROW
	ASPHALT SHINGLES	
	EARTH	1 (SIM) A101 — — — —
	GRASS	
	RIGID INSULAITON	OF VIEW 2 NUMBER ON SHEET WHERE DRAWN 3 A101 1 A101 1
		INDICATES SHEET WHERE DRAWN 4
		LEVEL INDICATION
	MINERAL WOOL	Name Elevation
	BATT INSULATION	REVISION CLOUD IDENTIFICATION
	EXPANDED POLY	$\underline{\land}$
	PLYWOOD SECTION	DOOR IDENTIFICATION OPENINGS (DOOR & BORROWED LIGHT) SHALL REPEAT ROOM NUMBER ASSIGNED TO ROOM. MULTIPLE OPENINGS TO ROOM SHALL REPEAT DOOL NUMBER DIVISION TO TETER 001
	WOOD (ROUGH)	ROOM NUMBER WITH A POSTSCRIPT LETTER FOR EACH ADDITIONAL OPENING REQUIRED.
	FINISH WOOD	WINDOW IDENTIFICATION (1t)
	ACT LAY-IN (2X2)	WALL IDENTIFICATION 1i DESCRIPTION STARTS AT WALL SURFACE DESIGNATED
	ACT LAY-IN (2X2)	CEILING HEIGHT 9' - 0"
$ \begin{array}{c} r_{n-1} & r_{n-1} $	GYPSUM BOARD	
	CUT STONE	MATCHLINE <u>A-101.01</u> <u>A-101.01</u>
	GROUT	A-102.01 A-102.01 SHEET NUMBER
<u>ntestatas</u>	7	6 5 4

I       12/30/2021       PERMIT         I       12/30/2021       PERMIT         I       I       I         I       I			ont Rosedale Ilective II
STUDDO OWNER GRPC 4 United Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-5158 fax www.grandmontrosedale.com ACHTECT INTOTO STUDIO LLC 6056 Woodward Ave Suite 20 Detroit, MI 48202 313-395-5130 phone www.intobustudi.com CVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48205 313-769-5770 phone www.peagroup.com MEP ENGINEERING RESURGET ENGINEERING RESURGET ENGINEERING SUite 301 Detroit, MI 48009 248-258-1610 phone www.ma-engineering.com STRUCTURAL ENGINEERING RESURGET ENGINEERING A19 Woodward Ave. Suite 30 Detroit, MI 48009 248-258-1610 phone www.resurget-engineering.com STRUCTURAL ENGINEERING TOP COMPANY			
GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Datroit, MI 48223 313-387-4732 phone 313-387-4732 phone 313-387-4732 phone 313-387-5158 fax         ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200         Detroit, MI 48202 313-395-5030 phone www.intolostudio.com         CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501         Detroit, MI 48226 313-765-5770 phone www.peagroup.com         MEP ENGINEERING MA ENGINEERING MO S. Old Woodward Ave Suite 100         Birmingham, MI 48009 248-258-1610 phone www.resurget-engineering.com         STRUCTURAL ENGINEERING RESURGET ENGINEERING 242-250-1610 phone www.resurget-engineering.com         STRUCTURAL ENGINEERING 242-250-1610 phone www.resurget-engineering.com         Structural engineering.com         Structural engineering.com         Key Plan         No.       Date Description 1         1       12/30/2021         PERMIT	S	TU	DTO DIO
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rawing Title GENERAL NOTES	Drawin	-	
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OLE SCHEDULE				
TYPE	<u>RIM</u>	<u>SIZE</u>	DIRECTIO	
CATCH BASIN	629.64	T/V	VATER	
		B/STR	UCTURE	
CATCH BASIN	629.58	T/V	VATER	
		B/STR	<b>B/STRUCTURE</b>	
SEWER MANHOLE	630.06	12	E	
		12	SW	
		12	W	
		12	S	
		15	Ν	
CATCH BASIN	630.42	B/STR	<b>B/STRUCTURE</b>	
		T/PIPE	SW	
CATCH BASIN	632.38	10	S	
SEWER MANHOLE	631.54	12	Ν	
		12	S	
	TYPE CATCH BASIN CATCH BASIN SEWER MANHOLE CATCH BASIN CATCH BASIN	CATCH BASIN 629.64 CATCH BASIN 629.58 SEWER MANHOLE 630.06 CATCH BASIN 630.42 CATCH BASIN 632.38	TYPE         RIM         SIZE           CATCH BASIN         629.64         T/V           B/STR         629.58         T/V           CATCH BASIN         629.58         T/V           B/STR         B/STR         B/STR           SEWER MANHOLE         630.06         12           12         12         12           12         12         15           CATCH BASIN         630.42         B/STR           CATCH BASIN         630.42         B/STR           T/PIPE         CATCH BASIN         632.38         10           SEWER MANHOLE         631.54         12	



HANDICAP PARKING = 0 STALLS STANDARD PARKING = 33 STALLS

### PARCEL AREA

PARCEL ID: 22125672.002L 13,380 $\pm$  SQUARE FEET = 0.31 $\pm$  ACRES PARCEL ID: 22125673.001 26,736 $\pm$  SQUARE FEET = 0.61 $\pm$  ACRES TOTAL TOTAL 40,116 $\pm$  SQUARE FEET = 0.92 $\pm$  ACRES

BASIS OF BEARING NORTH 01°24'00" WEST, BEING THE EASTERLY RIGHT OF WAY LINE OF MINOCK STREET, AS PLATTED.

### **BENCHMARK**

SITE BENCHMARK #1 ARROW ON FIRE HYDRANT. ELEVATION = 634.13' (NAVD 88)

SITE BENCHMARK #2 MAG NAIL ON UTILITY POLE. ELEVATION = 632.09' (NAVD 88)

### ZONING REGULATIONS

R1- TWO FAMILY RESIDENTIAL DISTRICT

\*MAXIMUM LOT COVERAGE - 35%

\*REQUIRED SETBACK LINE MINIMUM DIMENSIONS – FRONT – 20 FEET LEAST ONE SIDE – 4 FEET TOTAL TWO SIDES – 14 FEET REAR – 30 FEET

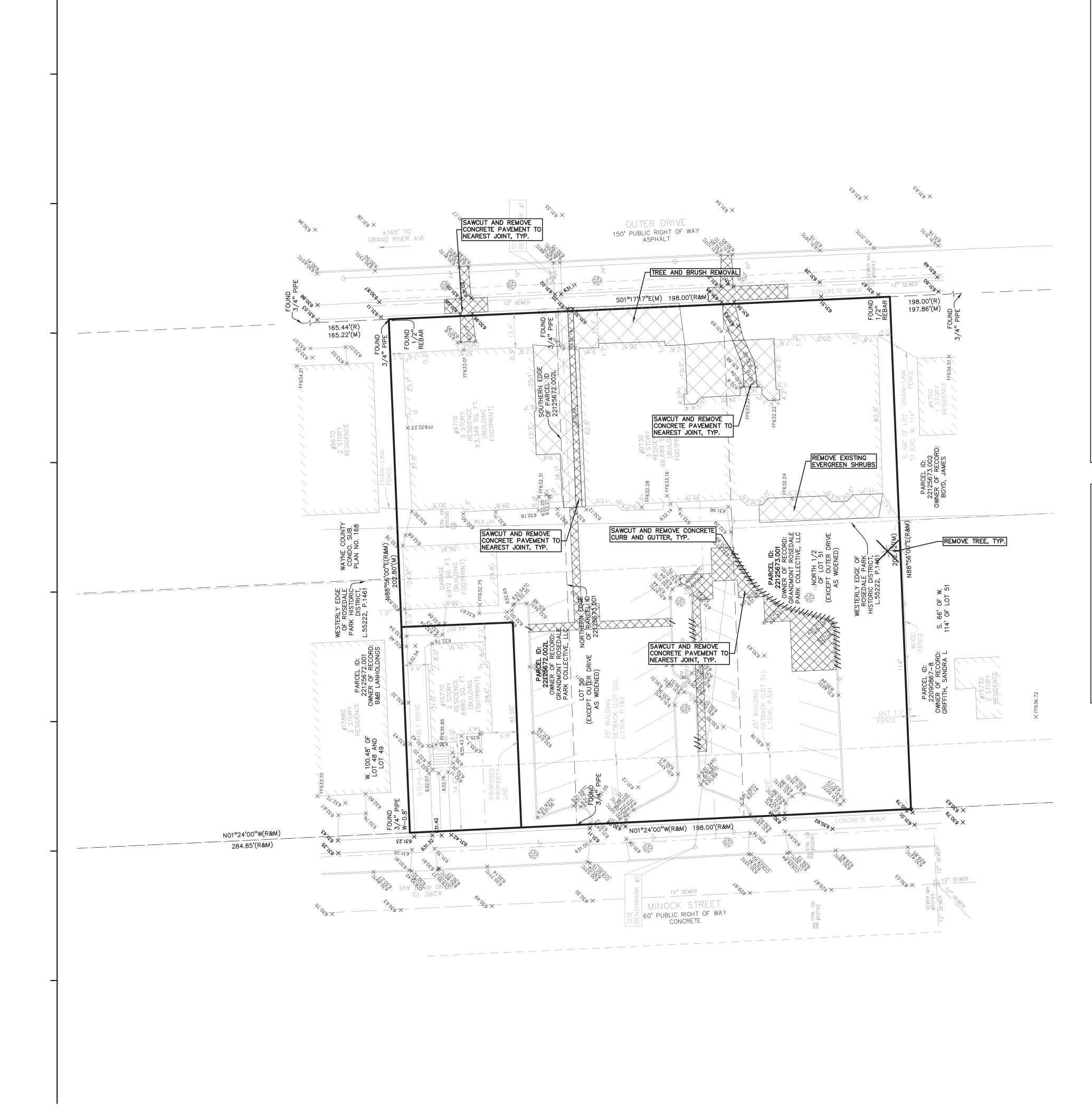
\*MAXIMUM HEIGHT IN FEET - 35 FEET

\*MINIMUM GROSS LOT SIZE AREA IN SQUARE FEET — 5,000 SQ. FT. WIDTH IN FEET — 50 FEET

NOTE: ALL ZONING INFORMATION IS TAKEN FROM THE CITY OF DETROIT WEBSITE & TWO ZONING LETTERS FROM THE CITY OF DETROIT DEPARTMENT OF BUILDINGS, SAFETY ENGINEERING, AND ENVIRONMENTAL, BOTH DATED SEPTEMBER 23, 2020. ALL ZONING INFORMATION MUST BE VERIFIED FOR COMPLETENESS WITH CURRENT ZONING REGULATIONS.

			LEGEND	•	
DIRECTION	INVERT	<ul> <li>IRON FOUND</li> <li>IRON SET</li> <li>NAIL FOUND</li> </ul>	<ul> <li>BRASS PLUG SET</li> <li>MONUMENT FOUND</li> <li>MONUMENT SET</li> </ul>	SEC. CORNER FOUND	
NATER	623.94	Ø NAIL & CAP SET		M MEASURED C CALCULATED	
RUCTURE	623.14	EXISTING			
NATER RUCTURE	624.43 622.83	-OH-ELEC-W-O-< -UG-CATV-TV-	ELEC., PHONE OR CABLE TV O.H. LINE, POLE UNDERGROUND CABLE TV, CATV PEDESTAL		
E	620.46		TELEPHONE U.G. CABLE, PEDESTAL & MANH		
SW	623.96		ELECTRIC U.G. CABLE, MANHOLE, METER & I GAS MAIN, VALVE & GAS LINE MARKER		,
W	621.01		WATERMAIN, HYD., GATE VALVE, TAPPING S SANITARY SEWER, CLEANOUT & MANHOLE	LEEVE & VALVE	
S	617.78	®	STORM SEWER, CLEANOUT & MANHOLE COMBINED SEWER & MANHOLE		
N RUCTURE	617.91 625.72	₩ ⊕ © <sup>Y.D.</sup>	SQUARE, ROUND & BEEHIVE CATCH BASIN,	ARD DRAIN	
SW	627.82	-0- ੴ ⊗	POST INDICATOR VALVE WATER VALVE BOX/HYDRANT VALVE BOX, S	ERVICE SHUTOFF	
S	629.30	MII. ?.	MAILBOX, TRANSFORMER, IRRIGATION CON-	FROL VALVE	(
N	617.89	×Goo	SPOT ELEVATION		
S	617.99	——670 —— <b>—X —— X —</b>	CONTOUR LINE FENCE		
		<del>。。。。。</del>	GUARD RAIL STREET LIGHT		
		- <del>\</del> -	SIGN		
		CONC.	CONCRETE		l
					[
		ASPH.	ASPHALT		
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		GRAVEL	GRAVEL SHOULDER		
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		22125672.002L AND 22 DESCRIPTION AS DESCR	2125673.001 COMBINED DES IBED ABOVE.	CRIBE THE	N N
	<u>TITLE RE</u>	PORT NOTE			N 2 5 E
	INSURANCE CO	MPANY COMMITMENT NO	WITHIN THE FIRST AMERICA D. 911494, DATED AUGUST OR THIS SURVEY. NO OTHE	21, 2020, AND	22
	RESEARCH WAS	S PERFORMED BY THE	CERTIFYING SURVEYOR.		5
	OMITTING REST	RICTIONS, IF ANY, BASE	TIONS AND OTHER PROVISIO ED ON RACE, COLOR, RELIG ONAL ORIGIN AS CONTAINEI	ION, SEX,	F
	INSTRUMENT RE	ECORDED IN LIBER 1206	6, PAGE 531 (AS SHOWN),	REGISTER NO.	2
	5187, PAGE 64		SHOWN), REGISTER NO. 465 TERMS AND CONDITIONS),		<u>F</u> 3
	C344848.	CONDITIONS OF RESO	LUTION RECORDED IN LIBER	55222 PACE	
		COUNTY RECORDS. (AS		33222, FAGE	
		S), RESTRICTIONS AND, THE RECORDED PLAT.	OR SETBACK LINES, IF AN	Y, AS	
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OF	SURVEYC	DR'S NOTES			
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	FURTHER DOES	NOT WARRANT THAT	RVICE OR ABANDONED. THE THE UNDERGROUND UTILITIE	S SHOWN ARE	
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Grandmont Rosedale Park Collective II				
9710 - 9730 W Outer Dr. Detroit, MI 48223				
INTOTO Studio				
OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com				
ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com				
CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com				
MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com				
STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com				
Key Plan				
Registration Seal				
No.         Date         Description           1         08/11/2021         Design Development           2         10/15/2021         HDC           3         12/30/2021         Permit				
Project Number: 20.005.02 Drawn By: RW Approved By: EB Scale: 1" = 20' Drawing Title TOPOGRAPHIC SURVEY				
Drawing No:				



# THE STATE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANIES TO CONFIRM THAT UTILITY LEADS HAVE BEEN TAKEN OUT OF SERVICE PRIOR TO DEMOLITION. 10. ALL BUILDING GAS LEADS, METERS AND ASSOCIATED EQUIPMENT SHALL BE REMOVED AS SHOWN ON THE PLANS. COORDINATE ALL ASSOCIATED WORK WITH THE APPROPRIATE UTILITY COMPANY. . REMOVE ALL OVERHEAD AND UNDERGROUND ELECTRICAL LINES WITHIN THE AREA OF CONSTRUCTION AS SHOWN ON THE PLANS. COORDINATE SHUTDOWNS AND REMOVALS WITH ELECTRICAL SERVICE PROVIDER OR

OR PER LOCAL AGENCY REQUIREMENTS.

GENERAL DEMOLITION NOTES:

ORDINANCES.

CONSTRUCTION.

ASPHALT, TREES, ETC.

- THE APPROPRIATE UTILITY COMPANY. (NOTE: PHONE AND CABLE T.V. SERVICES MAY ALSO BE LOCATED ON OVERHEAD LINES.) 12. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF SIGNS AND SUPPORTS WITHIN THE WORK AREA, AS
- NECESSARY TO FACILITATE CONSTRUCTION. SIGNS SHALL BE PROTECTED OR STOCKPILED FOR REUSE AS SPECIFIED IN THE PLANS OR AS REQUIRED BY THE AGENCY OF JURISDICTION. THE CONTRACTOR SHALL REPLACE ANY DAMAGED SIGNS AND SUPPORTS AT NO ADDITIONAL COST TO THE OWNER.
- 13. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION.

## DEMOLITION LEGEND:

# ITEM TO BE PROTECTED ITEM TO BE REMOVED CURB/FENCE REMOVAL CONCRETE PAVEMENT AND SIDEWALK REMOVAL

AREA OR ITEMS TO BE REMOVED

UTILITY REMOVAL

ABANDON UTILITY

TREE AND BRUSH REMOVAL

TREE REMOVAL

SAWCUT LINE



HESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT:	
ALL MATERIAL TO BE REMOVED, WHETHER SPECIFICALLY NOTED IN THE PLANS OR NOT, SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AND DISPOSED OF OFF-SITE IN A LEGAL MANNER. NO ON-SITE BURY OR BURN PITS SHALL BE ALLOWED.	

2. ALL DEMOLITION WORK SHALL CONFORM TO ALL LOCAL CODES AND

5. STAGING/PHASING OF DEMOLITION AND CONSTRUCTION IS TO BE COORDINATED WITH THE OWNER AND THE CONTRACTOR PRIOR TO

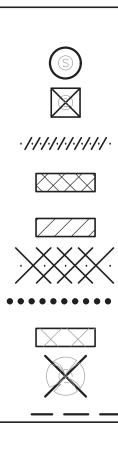
SPECIFIC DEMOLITION ITEMS HAVE BEEN INDICATED ON THE PLANS AS A GUIDE TO THE GENERAL SCOPE OF THE WORK. IT IS THE INTENT THAT THESE ITEMS SHALL BE COMPLETELY REMOVED BY THE CONTRACTOR ABOVE AND BELOW GROUND, UNLESS SPECIFICALLY NOTED OTHERWISE, AND THAT DEMOLITION WILL INCLUDE BUT WILL NOT NECESSARILY BE LIMITED TO THESE ITEMS. CONTRACTOR SHALL VISIT SITE TO VERIFY EXISTING CONDITIONS AND EXTENTS OF THE DEMOLITION THAT WILL BE REQUIRED PRIOR TO SUBMITTING A BID.

. REMOVE ALL STRUCTURES DESIGNATED FOR REMOVAL ACCORDING TO THE DEMOLITION PLAN. THIS INCLUDES FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, FLOOR SLABS, UNDERGROUND UTILITIES, CONCRETE,

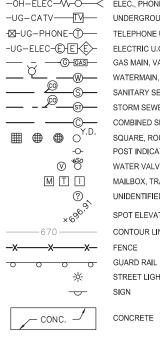
THE CONTRACTOR SHALL, AS A MINIMUM, PROVIDE TREE PROTECTION FENCING AROUND EXISTING TREES TO BE SAVED THAT ARE WITHIN 15 FEET OF CONSTRUCTION ACTIVITIES AND AS INDICATED IN THE PLANS

. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEAN UP, NOISE, DUST CONTROL, STREET SWEEPING AND HOURS OF OPERATION IN ACCORDANCE WITH THE LOCAL CODES.

THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADES, SIGNAGE, MARKINGS, LIGHTS AND OTHER TRAFFIC CONTROL DEVICES TO PROTECT THE WORK ZONE AND SAFELY MAINTAIN TRAFFIC PER AGENCY REQUIREMENTS AND IN ACCORDANCE WITH THE LATEST EDITION OF



IRON FOUND
X IRON SET
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<u>©</u>
₩ A A <sup>Y.D.</sup>



POST INDICATOR VALVE UNIDENTIFIED STRUCTURE SPOT ELEVATION CONTOUR LINE OOOO GUARD RAIL ※ STREET LIGHT SIGN

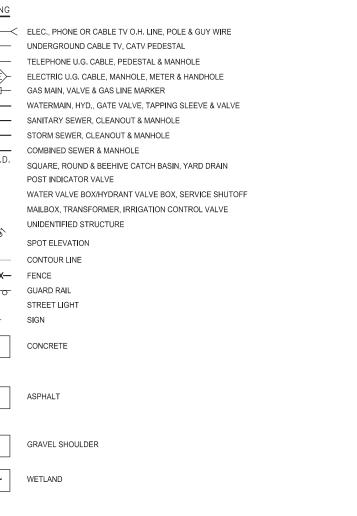
ASPH. / ASPHALT \_\_\_\_GRAVEL\_\_\_

ستد مثد WETLAND



LEGEND

SEC. CORNER FOUND R RECORDED M MEASURED C CALCULATED



# Grandmont Rosedale Park Collective II

9710 - 9730 W Outer Dr. Detroit, MI 48223



OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com

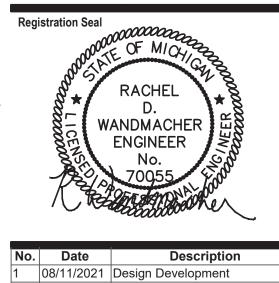
**CIVIL ENGINEERING** PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com

MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com

STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com

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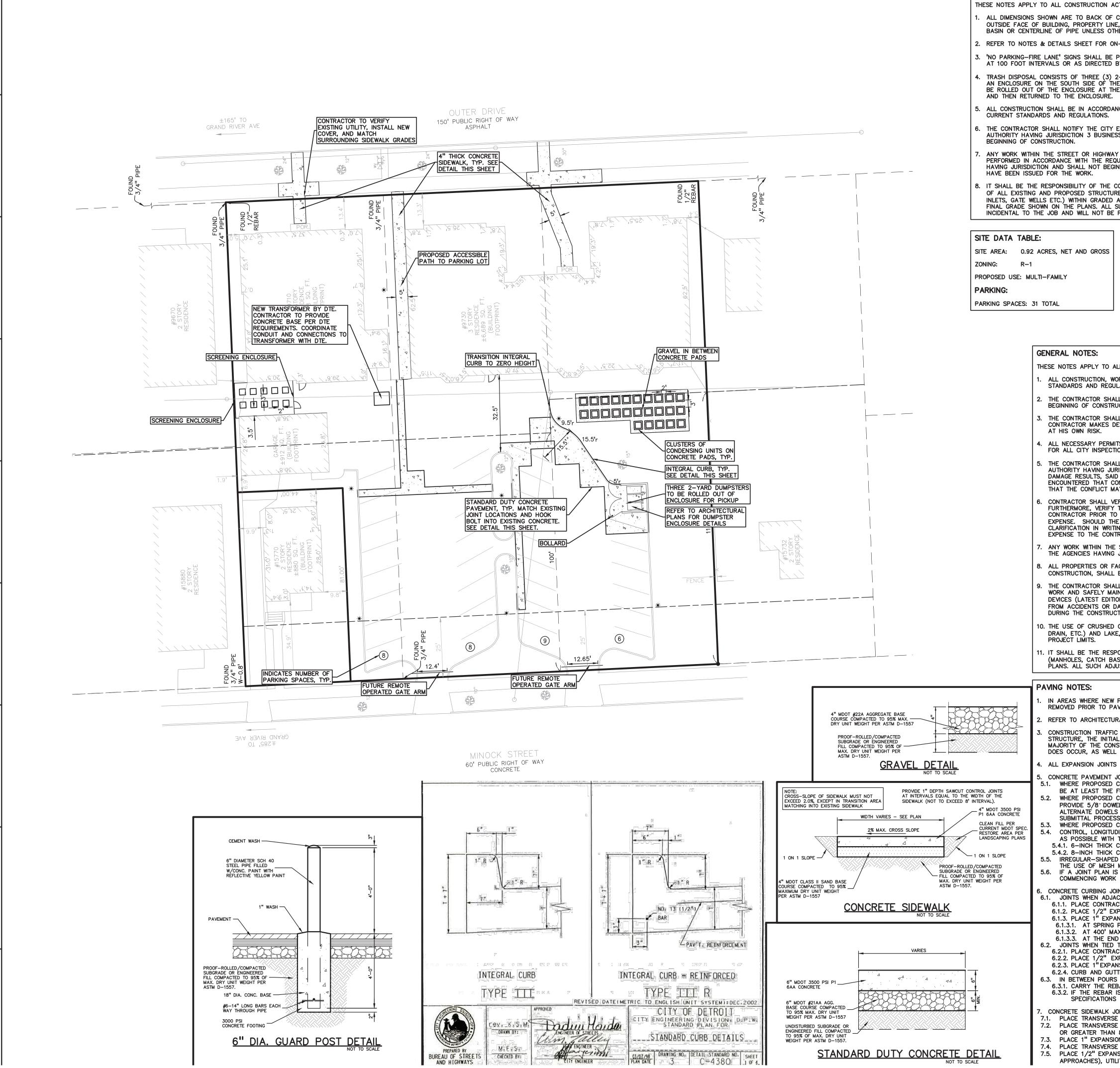
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Drawing Title
DEMOLITION PLAN



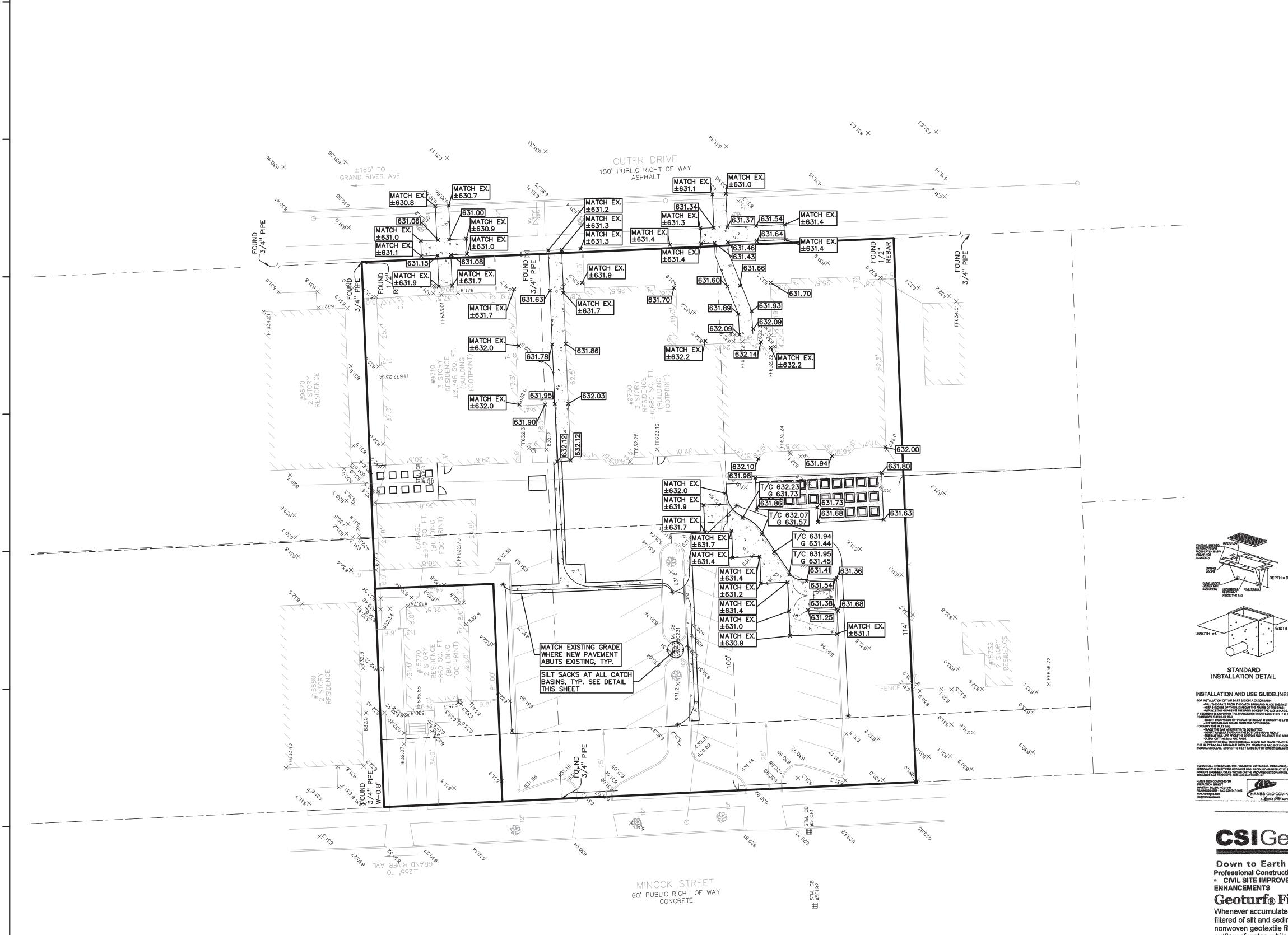


Know what's below. Call before you dig.



	IRON FOUND					Grandmont Rosedale
CTIVITIES ON THIS PROJECT. CURB, FACE OF SIDEWALK, IE, CENTER OF MANHOLE/CATCH THERWISE NOTED.	<ul> <li>IRON FOUND</li> <li>IRON SET</li> <li>NAIL FOUND</li> <li>NAIL &amp; CAP SET</li> </ul>	BRASS PLUG SET     MONUMENT FOUND     MONUMENT SET	R RECORDE M MEASURE C CALCULA	ED ED		Park Collective II
N-SITE PAVING DETAILS. POSTED ALONG ALL FIRE LANES BY THE FIRE OFFICIAL. 2-YARD DUMPSTERS LOCATED IN HE SITE. THESE DUMPSTERS WILL HE TIME OF WASTE COLLECTION		ELEC., PHONE OR CABLE TV O.H. LINE, PO UNDERGROUND CABLE TV, CATV PEDES TELEPHONE U.G. CABLE, PEDESTAL & MA ELECTRIC U.G. CABLE, MANHOLE, METER GAS MAIN, VALVE & GAS LINE MARKER WATERMAIN, HYD., GATE VALVE, TAPPIN SANITARY SEWER, CLEANOUT & MANHOLE	TAL ANHOLE R & HANDHOLE G SLEEVE & VALVE	   _		9710 - 9730 W Outer Dr. Detroit, MI 48223
NCE WITH CITY OF DETROIT	© ■ ● ● ○ <sup>Y.D.</sup> -0-	COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASI POST INDICATOR VALVE	IN, YARD DRAIN			
ENGINEER AND/OR THE SS DAYS PRIOR TO THE	8 ⊗ □ □ ₪ ```	WATER VALVE BOX/HYDRANT VALVE BOX MAILBOX, TRANSFORMER, IRRIGATION C UNIDENTIFIED STRUCTURE				
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IN UNTIL ALL NECESSARY PERMITS	<u> </u>	GUARD RAIL STREET LIGHT SIGN		*		OWNER GRPC 4 Limited Dividend Housing Association
RES (MANHOLES, CATCH BASINS, AND /OR PAVED AREAS TO SUCH ADJUSTMENTS SHALL BE PAID FOR SEPARATELY.	CONC	CONCRETE		STD HEAVY DEEP	<u>н</u>	Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com
	GRAVEL	GRAVEL SHOULDER		DUTY DUTY STRENGTH		ARCHITECT INTOTO STUDIO LLC
	یاد ی <u>د</u> یاد یاد	WETLAND				6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com
					G	CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com
ALL CONSTRUCTION ACTIVITIES ON TH /ORKMANSHIP AND MATERIALS SHALL JLATIONS.		E WITH CURRENT OSHA, M	IDOT AND MU	JNICIPALITY		MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009
ALL NOTIFY THE CITY ENGINEER AND/ RUCTION. ALL CONTACT THE ENGINEER SHOULD						248-258-1610 phone www.ma-engineering.com
ITS, TESTING, BONDS AND INSURANCE	WRITTEN DIRECTION	OF THE DESIGN ENGINEER	R, THE CONTI	RACTOR DOES SO		STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306
TION FEES.	IE CALL UTILITY LO	CATING CENTER, THE CITY	' ENGINEER A	AND/OR THE	F_	Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com
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SS. CONCRETE ABUTS EXISTING OR PROF IDINAL AND/OR TRANSVERSE JOINTS THE FOLLOWING MAXIMUM SPACING I	SHALL BE PLACED				<u>c</u>	
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DINTING — UNLESS SHOWN OTHERWISE ACENT TO ASPHALT PAVEMENT ACTION JOINTS AT 10' INTERVALS XPANSION JOINT AT CATCH BASINS, E ANSION JOINT: POINTS OF INTERSECTIONS OR ONE	XISTING AND PROP	OSED SIDEWALK OR EXIST	ING CURBING			
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S OF PROPOSED CONCRETE CURBING BAR CONTINUOUSLY BETWEEN POURS IS NOT LONG ENOUGH TO CARRY CO S	•		AR PER THE	LATEST MDOT		Scale: 1" = 20' Drawing Title DIMENSIONAL SITE
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GENERAL NOTES:

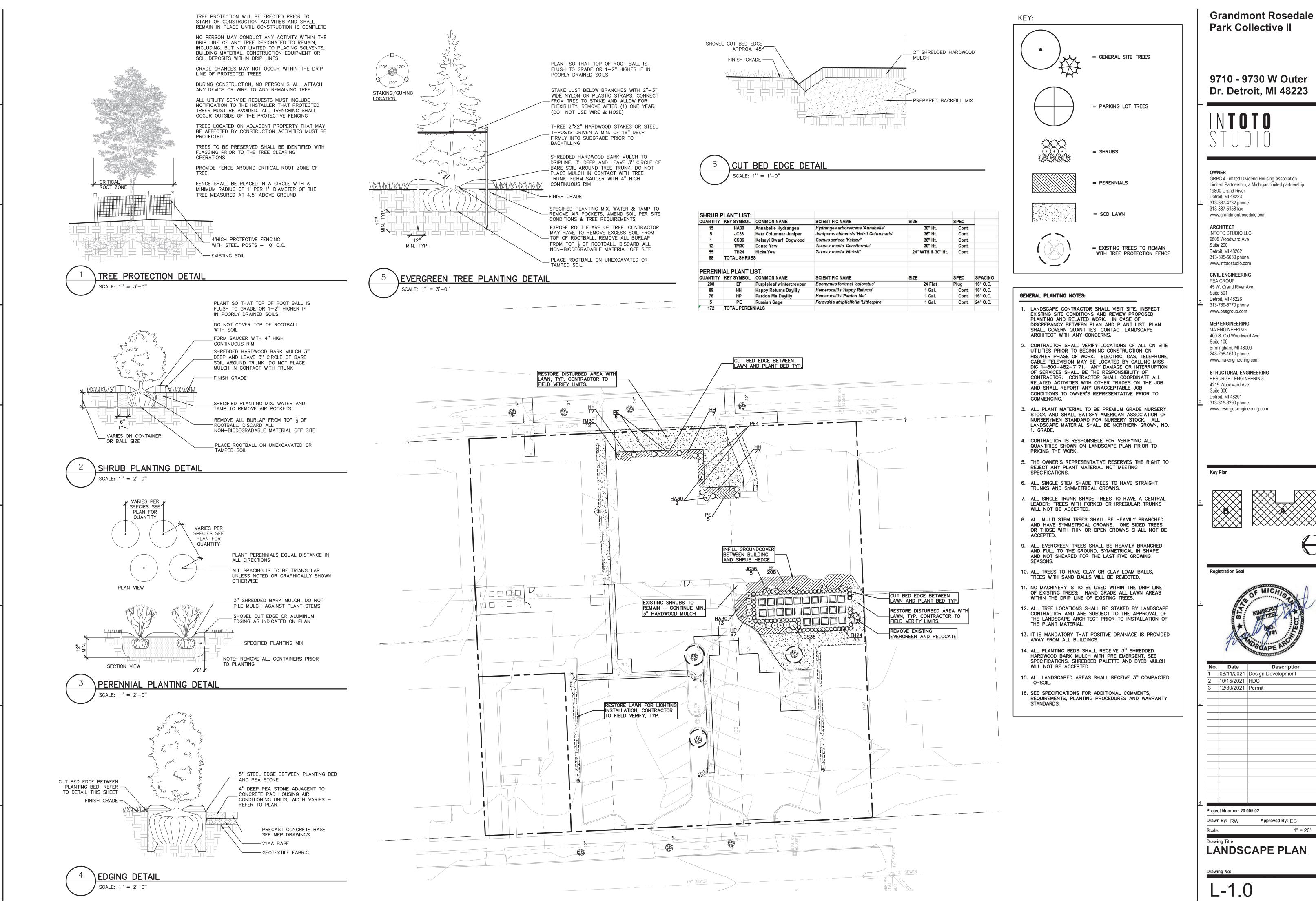


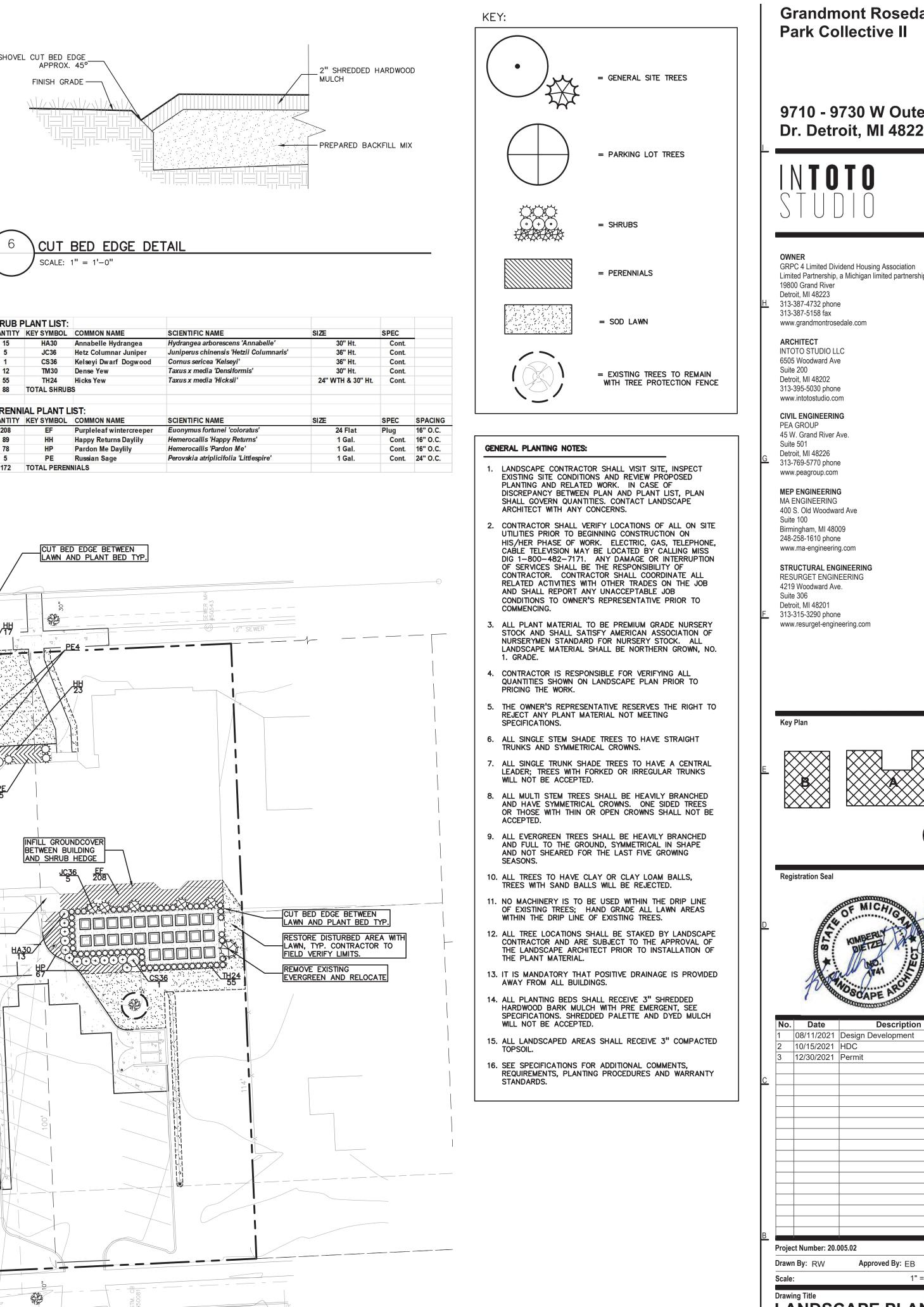
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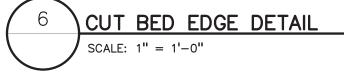
Size Snout Size Holding Capacity

Meets the requ **Erosion Contro** 

	IRON FOUND	<b>LEGEND</b>		RNER FOUND		Grandmont Rosedale
	<ul> <li>➢ IRON SET</li> <li>Ø NAIL FOUND</li> <li>Ø NAIL &amp; CAP SE</li> </ul>	MONUMENT FOUND	R RECORD M MEASURI C CALCULA	ED ED		Park Collective II
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-		WATERMAIN, HYD., GATE VALVE, TAPPING SANITARY SEWER, CLEANOUT & MANHOL STORM SEWER, CLEANOUT & MANHOLE		     C.0.       		Dr. Detroit, MI 48223
-	■ ● ● ○ <sup>Y.D.</sup> -0-	COMBINED SEWER & MANHOLE SQUARE, ROUND & BEEHIVE CATCH BASI POST INDICATOR VALVE	IN, YARD DRAIN			
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-0	> <u> </u>	GUARD RAIL STREET LIGHT SIGN		<u> </u>		OWNER
[	CONC.	CONCRETE		STD HEAVY R.O.W. DUTY DUTY ONLY		GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223
[	ASPH.	ASPHALT		STD HEAVY DEEP	<u>н</u>	313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com
[	GRAVEL	GRAVEL SHOULDER		DUTY DUTY STRENGTH		ARCHITECT INTOTO STUDIO LLC
	یلاد یلا بلاد یلا	WETLAND				6505 Woodward Ave Suite 200 Detroit, MI 48202
]	SYMBOLS: (	GRADING				313-395-5030 phone www.intotostudio.com
	PROPOSED SP TYPICALLY TOP AREAS, GUTTE	OT ELEVATION: P OF PAVEMENT IN PAVED R GRADE IN CURB LINES.	×622.5	ס		CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave.
	PROPOSED CO	NTOUR LINE		_	G	Suite 501 Detroit, MI 48226 313-769-5770 phone
	ABBREVIATIONS T/C = TOP OIG = GUTTER O	F CURB GRADE				www.peagroup.com MEP ENGINEERING MA ENGINEERING
	T/P = TOP OI T/S = TOP OI T/W = TOP O	F SIDEWALK F WALL				400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009
	B/W = BOTTO F.G. = FINISH RIM = RIM ELI	GRADE				248-258-1610 phone www.ma-engineering.com
	SYMBOLS: 1	EROSION CONTROL				STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave.
		STORM SEWER INLET FILT	TER		E	Suite 306 Detroit, MI 48201 313-315-3290 phone
						www.resurget-engineering.com
T SEALO MEDOR T SEALO MEDOR PROMI ANTO BASE BIOLOGIA DEBELOOSI MUTANO MU	Optional Overf	Silt Sack - Type	Insert 1" Bag Ren (Rebar h	Rebar For noval From Inlet lot Included)	<u>E</u>	
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EMENTS - EROSION & SEDIMENT ( Tilter Bag ed water on a construction site must iment prior to discharge into receivin filter fabric with a fill port to accomm e retaining harmful pollutants.	be pumped, uti g bodies. Filter	lize filter bags to ensure the bags are constructed of stro	water is pro	perly ality	-	
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8" ty 15 Cubic Yds.					۲ I	Project Number: 20.005.02 Drawn By: RW Approved By: EB
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						Drawing No:
						C-4.0







QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE
15	HA30	Annabelle Hydrangea	Hydrangea arborescens 'Annabelle'	
5	JC36	Hetz Columnar Juniper	Juniperus chinensis 'Hetzii Columnaris'	
1	CS36	Kelseyi Dwarf Dogwood	Cornus sericea 'Kelseyi'	
12	TM 30	Dense Yew	Taxus x media 'Densiformis'	
55	TH24	Hicks Yew	Taxus x media 'Hicksii'	24"
88	TOTAL SHRUE	3S		
PERENN	IAL PLANT L	IST:		
QUANTITY	KEY SYMBOL	COMMON NAME	SCIENTIFIC NAME	SIZE
208	EF	Purpleleaf wintercreeper	Euonymus fortunei 'coloratus'	
89	HH	Happy Returns Daylily	Hemerocallis 'Happy Returns'	
78	HP	Pardon Me Daylily	Hemerocallis 'Pardon Me'	
5	PE	Russian Sage	Perovskia atriplicifolia 'Littlespire'	
172	TOTAL PEREN	NIALS		

GENER	AL LANDSCAPING REQUIREMENTS	3.2.3	Any equipment that compacts the soil in the areas of existing tree not allowed.
1.0 1.1	GENERAL	3.2.4	Protect trees scheduled to remain with 4' high snow fence per pla
1.1.1	Includes But Not Limited To	3.2.5	No vehicular traffic is permitted beneath drip line at any time. All areas are to be worked by hand.
	1. General procedures and requirements for Site Work. 2. Drawings and general provisions of the Contract, including General and	3.2.6	Clear and grub areas within contract limits as required for site acc and execution of the work.
	Supplementary Conditions and Division 01 Specification Sections, apply to this Work. Refer to the Project Manual for Division 01 requirements.	3.2.7	Remove trees, plants, undergrowth, other vegetation and debris, exitems indicated to remain.
2.0	PRODUCTS – Not Used	3.2.8	Treat planting and lawn areas as required with herbicide per manut recommendations to kill existing vegetation prior to planting, seedir sodding.
3.0 3.1	EXECUTION PREPARATION	3.2.9	Remove stumps and roots to a clear depth of 36" below subgrade Remove stumps and roots to their full depth within 5'0" of underg structures, utility lines, footings, and paved areas.
3.1.1	Protection 1. Spillage:	3.3	DISPOSAL OF WASTE MATERIALS
	A. Avoid spillage by covering and securing loads when hauling on or	3.3.1	Stockpile, haul from site and legally dispose of waste materials an debris. Accumulation is not permitted.
	adjacent to public streets or highways. B. Remove spillage and sweep, wash, or otherwise clean project,	3.3.2	Maintain disposal routes, clear, clean and free of debris.
	streets, and highways.	3.3.3	On site burning of combustible cleared materials is not permitted.
	<ol> <li>Erosion Control:</li> <li>A. Take precautions necessary to prevent erosion and transportation</li> </ol>	3.3.4	Upon completion of landscape preparation work, clean areas within contract limits, remove tools and equipment. Site to be clear, cle free of materials and debris and suitable for site work operations.
	of soil downstream, to adjacent properties, and into on-site or off-site drainage systems. B. Develop, install, and maintain an erosion control plan if required	3.3.5	Materials, items and equipment not scheduled for reinstallation or salvaged for the General Contractor are the property of the Landse
	<ul> <li>Develop, install, and maintain an elosion control plan in required by law.</li> <li>C. Repair and correct damage caused by erosion.</li> </ul>		Contractor. Remove cleared materials from the site as the work progresses. Storage and sale of Landscape Contractors salvage it site is not permitted.
	3. Existing Plants And Features:		SECTION
	A. Do not damage tops, trunks, and roots of existing trees and shrubs on site which are intended to remain.	<b>FINISH</b> 1.0	GRADING AND TOPSOIL PLACEMENT GENERAL
	B. Do not use heavy equipment within branch spread. Interfering	1.0	SUMMARY
	branches may be removed only with permission of Landscape Architect.	1.1.1	Includes But Not Limited To
	C. Do not damage other plants and features which are to remain.		<ol> <li>Perform finish grading and topsoil placement required to prepar for installation of landscaping as described in Contract Docume</li> </ol>
3.1.2	If specified precautions are not taken or corrections and repairs made promptly, Owner may take such steps as may be deemed necessary and	1.2	SUBMITTALS
	deduct costs of such from monies due to Contractor. Such action or lack of action on Owner's part does not relieve Contractor from responsibility for proper protection of the Work.	1.2.1	Quality Assurance
	SECTION		<ol> <li>Submit test on imported topsoil and on site stockpiled topsoil independent licensed testing laboratory prior to use. Imported shall meet minimum specified requirements and be approved by Landscape Architect prior to use.</li> </ol>
1.0	GENERAL		2. Provide and pay for testing and inspection during topsoil opera Laboratory, inspection services, and Soils Engineer shall be acce
1.1 1.1.1	SUMMARY Includes But Not Limited To		<ul><li>to the Landscape Architect.</li><li>3. Submit report stating location of source of imported topsoil an</li></ul>
	1. General landscape work requirements.		account of recent use.
1.2	QUALITY ASSURANCE		<ol> <li>Test for pH factor, mechanical analysis, and percentage of orga content.</li> </ol>
1.2.1	Comply with all applicable local, state and federal requirements, regarding materials, methods of work, and disposal of excess and waste materials.		5. Submit test reports to General Contractor.
1.2.2	Obtain and pay for all required inspections, permits, and fees.		6. Sub-Contractor, or testing agency to make recommendations of quantity of additives required to establish satisfactory pH fa
1.2.3	Provide notices required by governmental authorities.		and supply of nutrients to bring nutrients to satisfactory level planting.
1.3	PROJECT CONDITIONS	1.3	QUALITY ASSURANCE
1.3.1	Locate and identify existing underground and overhead services and utilities within contract limit work areas. (Call Miss Dig:	1.3.1	Participate in pre-installation meeting with Landscape Architect.
1.3.2	1—800—482—7171 in Michigan). Provide adequate means to protect utilities and services designated to	1.4 1.4.1	PROJECT CONDITIONS Also see Landscape Preparation Section.
1.3.3	Repair utilities damaged during site work operations at Subcontractor's expense.	1.4.2	Protect existing trees, plants, lawns, and other features designated remain as part of the landscaping work.
1.3.4	When uncharted or incorrectly charted underground piping or other	1.4.3	Promptly repair damage to adjacent facilities caused by topsoil operations. Cost of repair at Subcontractor's expense.
	utilities and services are encountered during site work operations, notify the applicable utility company immediately to obtain procedure directions. Cooperate with the applicable utility company in maintaining active services in operation.	1.4.4	Promptly notify the General Contractor and Landscape Architect of unexpected subsurface conditions.
1.3.5	Locate, protect, and maintain benchmarks, monuments, control points and project engineering reference points. Re—establish disturbed or	2.0 2.1	PRODUCTS MATERIALS
1.3.6	destroyed items at Subcontractor's expense. Perform landscape work operations and the removal of debris and materials to assure minimum interference with streets, walks, and other	2.1.1	Topsoil: supplied and stockpiled topsoil proposed for use must meet testing criteria results specified. Topsoil must conform to adjustm and recommendations from the soil test and by the Landscape Arc
1.3.7	adjacent facilities.	2.1.2	Existing topsoil: existing topsoil from on—site stockpile shall be ut All processing, cleaning, and preparation of this stored topsoil to r
1.3.7	Obtain governing authorities' written permission when required to close or obstruct streets, walks and adjacent facilities. Provide alternate routes around closed or obstructed traffic ways when required by governing authorities.	2.1.3	it acceptable for use is the responsibility of the Subcontractor. Provide additional topsoil as required to complete the job. Topsoil meet testing criteria results specified.
1.3.8	Protect and maintain street lights, utility poles and services, traffic signal control boxes, curb boxes, valves and other services, except items	2.1.4	All processing, cleaning, and preparation of this supplied topsoil to
1.3.9	designated for removal. The General Contractor will occupy the premises and adjacent facilities	2.1.5	it acceptable for use is the responsibility of the Subcontractor. Supplied and stockpiled topsoil, shall be fertile, friable, dark in color representative of local productive soil, capable of sustaining vigo
	during the entire period of construction. Perform landscape work operations to minimize conflicts and to facilitate General Contractor's use of the premises and conduct of his normal operations.		plant growth and free of clay lumps, subsoil, noxious weeds or oth foreign matter such as stones of 1" in any dimension, roots, sticks other extraneous material: not frozen or muddy. PH of soil range between 5.0 and 7.5
1.3.10	Perform landscape preparation work before commencing landscape construction.	2.1.6	Soil shall not contain more than 2 percent of particles measuring
1.3.11	Provide necessary barricades, coverings and protection to prevent damage to existing improvements indicated to remain.	2.1.7	2.0 mm in largest size Prepared topsoil shall be used in planting mixtures as specified in
1.3.12	Protect existing trees scheduled to remain against injury or damage		Plants, and Ground Cover; all beds prepared as specified.
	including cutting, breaking or skinning of roots, trunks or branches, smothering by stockpiled construction materials, excavated materials or vehicular traffic within branch spread.	3.0 3.1	EXECUTION
2.0	PRODUCTS	3.1.1	Do not commence work of this Section until grading tolerances spe
2.1	MATERIALS/EQUIPMENT	3.2	are met. PREPARATION
2.1.1	As selected by the General Contractor, except as indicated.	3.2.2	Prior to grading, dig out weeds from planting areas by their roots
	1. Tree protection:		remove from site. Before placing top soil in landscape areas, rem rocks larger than 1 inch in any dimension and foreign matter such
	A. Wood fencing — Snow fencing 4' height.	3.2.3	building rubble, wire, cans, sticks, concrete, etc. Prior to placing topsoil, remove any imported base material presen
	B. Posts — Steel fence post. C. Herbicide for lawn restoration — "Round—up" by Monsanto.		planting areas down to natural subgrade or other material accepta Landscape Architect.
3.0	EXECUTION	3.3	PERFORMANCE
3.1	EXISTING UTILITIES	3.3.1	Site Tolerances
3.1.1	Call "MISS DIG" 811 before construction begins. Information on the drawings related to existing utility lines and services is from the best		1. Total Topsoil Depth –
	sources presently available. All such information is furnished only for information and is not guaranteed. Excavate test pits as required to		<ul> <li>A. Lawn And Groundcover Planting Areas – 3 inches minim compacted.</li> </ul>
32	determine exact locations of existing utilities. CLEARING		<ul> <li>B. Shrub Planting Areas – 12 inches minimum throughout shrub bed area.</li> </ul>
3.2 3.2.1	CLEARING Locate and suitably identify trees and improvements indicated to remain.		2. Elevation of topsoil relative to walks or curbs —
	Fencing/soil erosion fence is to be installed.		A. Seeded Lawn Areas — 1/4 inch below

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npacts the soil in the areas of existing trees is	3.3.2 Do not expose or damage existing shrub or tree roots.	machine and incorporate thoroughly into topsoil.	1.5.2 Work notification: Notify Landscape Architect or General Contractor's	Grandmo
to remain with 4' high snow fence per plans.	3.3.3 Redistribute approved existing top soil stored on site as a result of rough grading. Remove organic material, rocks and clods greater than 1 inch	F. Apply fertilizers to indicated turf areas at a rate equal to 1 lb. of actual nitrogen 1,000 sq. ft. (43 lbs / acre).	representative at least seven (7) working days prior to start of sodding operation.	Park Colle
ermitted beneath drip line at any time. All lawn by hand.	in any dimension, and other objectionable materials. Provide additional approved imported topsoil required for specified topsoil depth and bring surface to specified elevation relative to walk or curb.	G. Apply fertilizers by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 1" by	1.5.3 Protect existing utilities, paving, and other facilities from damage caused by sodding operations.	
ithin contract limits as required for site access ork.	3.3.4 For trees, shrubs, ground cover beds and plant mix for beds see Exterior Plants section.	approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil.	1.5.4 Perform sodding work only after planting and other work affecting ground surface has been completed.	
indergrowth, other vegetation and debris, except	3.3.5 Provide earth berming where indicated on Plans.	H. After lawn areas have been prepared, take no heavy objects over them except lawn rollers.	1.5.5 Restrict traffic from lawn areas until grass is established. Erect signs and barriers as required.	9710 - 973
areas as required with herbicide per manufacturer existing vegetation prior to planting, seeding and	3.3.6 Berming to be free flowing in shape and design, as indicated, and to blend into existing grades gradually so that the toe of slope is not readily visible. Landscape Architect or General Contractor's representative to verify final contouring before planting.	I. After preparation of lawn areas and with topsoil in semi—dry condition, roll lawn planting areas in two directions at approximately right angles with water ballast roller weighing 100	<ul><li>1.5.6 Provide hose and lawn watering equipment as required.</li><li>1.5.7 The irrigation system will be installed prior to sodding. Locate, protect,</li></ul>	Dr. Detroi
ots to a clear depth of 36" below subgrades. ots to their full depth within 5'0" of underground	<ul> <li>3.3.7 Regardless of finish grading elevations indicated, it is intended that grading be such that proper drainage of surface water away from buildings will occur and that no low areas are created to allow ponding.</li> </ul>	to 300 lbs according to soil type. J. Rake or scarify and cut or fill irregularities that develop as required until area is true and uniform, free from lumps,	and maintain the irrigation system during sodding operations. Repair irrigation system components damaged during sodding operations at the Subcontractor's expense.	
footings, and paved areas.	Subcontractor to consult the General Contractor and Landscape Architect regarding variations in grade elevations before rough grading is completed.	depressions, and irregularities. K. Restore prepared areas to specified condition if eroded, settled	<ul><li>1.6 WARRANTY</li><li>1.6.1 See Landscape Maintenance and Warranty Section.</li></ul>	
e and legally dispose of waste materials and not permitted.	3.3.8 Slope grade away from building for 12 feet minimum from walls at slope of 1/2 inch per ft minimum unless otherwise noted. High point of finish	or otherwise disturbed after fine grading and prior to seeding. 3.3 INSTALLATION	2.0 PRODUCTS	$S \mid \bigcup \mid$
s, clear, clean and free of debris.	grade at building foundation shall be 6 inches minimum below finish floor level. Direct surface drainage in manner indicated on Drawings by molding surface to facilitate natural run—off of water. Fill low spots and	3.3.1 SEEDING	2.1 MATERIALS	
bustible cleared materials is not permitted.	pockets with top soil and grade to drain properly.	<ol> <li>Seed lawns only between April 1, and June 1, and fall seeding between August 15, and October 15, or at such other times acceptable to Landscape Architect.</li> </ol>	2.1.1 Sod: An "approved" nursery grown blend of improved Kentucky Bluegrass varieties.	OWNER
dscape preparation work, clean areas within tools and equipment. Site to be clear, clean and ebris and suitable for site work operations.	<ul> <li>3.3.9 Rake all topsoil to remove clods, rocks, weeds, and debris.</li> <li>3.3.10 Grade and shape area to bring surface to true uniform planes free from irregularities and to provide proper drainage and slopes per plans.</li> </ul>	<ol> <li>Seed immediately after preparation of bed. Seed indicated areas within contract Limits and areas adjoining contract limits disturbed as</li> </ol>	2.1.2 Sod containing Common Bermudagrass, Quackgrass, Johnsongrass, Poison Ivy, Nutsedge, Nimblewill, Canada Thistle, Timothy, Bentgrass, Wild Garlic, Ground Ivy, Perennial Sorrel, or Bramegrass weeds will not be acceptable.	GRPC 4 Limited Dividend Limited Partnership, a Mic 19800 Grand River
uipment not scheduled for reinstallation or Il Contractor are the property of the Landscape eared materials from the site as the work	3.4 CLEANING	a result of construction operations. 3. Perform seeding operations when the soil is dry and when the winds	2.1.3 Provide well rooted, healthy sod, free of diseases, nematodes and soil borne insects. Provide sod uniform in color, leaf texture, density, and	Detroit, MI 48223 <u>H</u> 313-387-4732 phone 313-387-5158 fax
nd sale of Landscape Contractors salvage items on	3.4.1 Upon completion of topsoil operations, clean areas within contract limits, remove tools, equipment, and haul all excess topsoil off—site. Site shall be clear, clean, free of debris, and suitable for site work	do not exceed five(5) miles per hour velocity. 4. Apply seed with a rotary or drop type distributor. Install seed evenly	free of weeds, undesirable grasses, stones, roots, thatch, and extraneous material; viable and capable of growth and development when planted.	www.grandmontrosedale.
SOIL PLACEMENT	operations. END OF SECTION	by sowing equal quantities in two (2) directions, at right angles to each other.	2.1.4 Furnish sod, machine stripped in square pads or strips not more than 3'-0" long; uniformly 1" to 1-1/2" thick with clean cut edges. Mow sod before stripping.	INTOTO STUDIO LLC 6505 Woodward Ave
	LAWN SEEDING	5. Sow seed at a rate of 300 lbs./acre. 6. After seeding, rake or drag surface of soil lightly to incorporate seed	2.1.5 Fertilizer: granular, non burning product composed of not less that 50% organic slow acting, guaranteed analysis professional fertilizer.	Suite 200 Detroit, MI 48202 313-395-5030 phone
	1.0 GENERAL	into top 1/8" of soil. Roll with light lawn roller.	2.1.6 Type A: starter fertilizer containing 20% nitrogen, 12% phosphoric acid,	www.intotostudio.com
d To ng and topsoil placement required to prepare site	1.1SUMMARY1.1.1Includes But Not Limited To	7. Provide soil erosion planting mat where grade conditions required to stabilize the planting area.	and 8% potash by by weight or similar approved composition. 2.1.7 Ground Limestone: Used if required by soil test report: Containing not	CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave.
indscaping as described in Contract Documents.	1. Furnish and install seeded lawn as described in Contract Documents.	3.3.2 HYDRO-SEEDING 1. Hydro-seeding: The application of grass seed and a wood cellulose	less than 85% of total carbonates and ground to such fineness that 50% will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.	Suite 501 Detroit, MI 48226
	<ol> <li>SUBMITTALS</li> <li>Submit seed vendor's certification for required grass seed mixture,</li> </ol>	fiber mulch tinted green shall be accomplished in one operation by use of an approved spraying machine.	2.1.8 Stakes: softwood, 3/4" x 8" long.	313-769-5770 phone www.peagroup.com
orted topsoil and on site stockpiled topsoil by I testing laboratory prior to use. Imported topsoil 1 specified requirements and be approved by	indicating percentage by weight, and percentage of purity, germination, and weed seed for each grass species.	A. Mix seed, fertilizer, and wood cellulose fiber in required amount of water to produce a homogeneous slurry. Add wood cellulous fiber after seed, water, and fertilizer have been thoroughly mixed	2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.	<b>MEP ENGINEERING</b> MA ENGINEERING
testing and inspection during topsoil operations.	1.3 DELIVERY AND STORAGE	and apply at the rate of 200 pounds per acre dry weight.	2.1.10 Topsoil: see Topsoil Placement section.	400 S. Old Woodward Av Suite 100
rchitect.	1.3.1 Deliver seed and fertilizer materials in original unopened containers, showing weight, analysis, and name of manufacturer. Store in a manner to prevent wetting and deterioration.	<ul> <li>B. For hydro-seeding, wood cellulose fiber shall be used.</li> <li>Silva-Fiber Mulch by Weyerhaeuer Company, Tacoma, WA (800-443-9179).</li> </ul>	3.0     EXECUTION       3.1     INSPECTION	Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.con
ng location of source of imported topsoil and ise.	1.4 PROJECT CONDITIONS	C. Hydraulically spray material on ground to form a uniform cover impregnated with grass seed.	3.1.1 Landscape Architect or General Contractor's representative must approve finish surfaces, grades, topsoil quality and depth. Do not start sodding	STRUCTURAL ENGINEE
mechanical analysis, and percentage of organic	<ul><li>1.4.1 See landscape preparation section.</li><li>1.4.2 Work notification: Notify Landscape Architect of General Contractor's</li></ul>	D. Immediately following application of slurry mix, make separate application of wood cellulose mulch at the rate of 1,000 pounds,	work until unsatisfactory conditions are corrected. 3.2 PREPARATION	RESURGET ENGINEERI 4219 Woodward Ave. Suite 306
to General Contractor.	representative at least seven (7) working days prior to start of seeding operation.	dry weight, per acre. E. Apply cover so that rainfall or applied water will percolate to	3.2.1 Surface Preparation:	Detroit, MI 48201 5313-315-3290 phone
testing agency to make recommendations on type ives required to establish satisfactory pH factor ents to bring nutrients to satisfactory level for	1.4.3 Protect existing utilities, paving, and other facilities from damage caused by seeding operations.	underlying soil. 3.3.3 MULCHING	1. Seven days maximum prior to sodding, — a. Treat Lawn areas if required with herbicide per manufacturer	www.resurget-engineering
	1.4.4 Perform seeding work only after planting and other work affecting ground surface has been completed.	1. Place straw mulch on seeded areas within 24—hours after seeding.	recommendations to kill existing vegetation prior to sodding.	
llation meeting with Landscape Architect.	1.4.5 Provide hose and lawn watering equipment as required.	<ol> <li>Place straw mulch uniformly in a continuous blanket at a rate of 2−1/2 tons per acre, or two (2) 50 lb. bales per 1,000 sq. ft. of</li> </ol>	b. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.	
paration Section.	1.4.6 The irrigation system will be installed prior to seeding. Locate, protect, and maintain the irrigation system during seeding operations. Repair irrigation system components damaged during seeding operations at the	area. A mechanical blower may be used for straw mulch application when acceptable to the Landscape Architect.	c. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.	
plants, lawns, and other features designated to	Sub-Contractor's expense.	3. Crimp straw into soil by use of a "crimper". Two passes in alternate direction required. Alternative methods on areas too small for crimper must be approved by the Landscape Architect or Owner's	d. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges, and fill depressions as required to drain.	Key Plan
andscaping work. to adjacent facilities caused by topsoil	1.5.1 See Landscape Maintenance and Warranty Section	Representative. 3.3.3 ESTABLISH LAWN	e. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to	
pair at Subcontractor's expense. Jeral Contractor and Landscape Architect of	2.0 PRODUCTS 2.1 MATERIALS	<ol> <li>Establish dense lawn of permanent grasses, free from lumps and depressions. Any area failing to show uniform germination to be</li> </ol>	not less than 6.0 no more that 6.8. Distribute evenly by machine and incorporate thoroughly into topsoil.	
conditions.	2.1.1 Topsoil for Seeded Areas: See Topsoil Placement and Drawings.	reseeded; continue until dense lawn established. 2. Damage to seeded area resulting from erosion to be repaired by Sub	f. Apply fertilizers to indicated turf areas at a rate equal to 1 lb. of actual nitrogen 1,000 sq. ft. (43 lbs / acre).	
	2.1.2 Lawn seeded areas: Fresh, clean and new crop seed mixture. Mixed by approved methods.	Contractor.	g. Apply fertilizers by mechanical rotary or drop type distributor, thoroughly and evenly incorporated with soil to a depth of 1" by	
cockpiled topsoil proposed for use must meet the specified. Topsoil must conform to adjustments rom the soil test and by the Landscape Architect.	2.1.3 Seed mixture composed of the following varieties, mixed to the specified proportions by weight and tested to minimum percentages of purity and germination.	<ol> <li>In event Sub Contractor does not establish dense lawn during first germination period, return to project to refertilize and reseed to establish dense lawn.</li> </ol>	approved method. Fertilize areas inaccessible to power equipment with hand tools and incorporate into soil.	
ng topsoil from on—site stockpile shall be utilized. and preparation of this stored topsoil to render	2.1.4 Irrigated Lawn Seed Mixture proportioned by volume as indicated below:	<ol> <li>Should the seeded lawn become largely weeds after germination, Sub Contractor is responsible to kill the weeds and reseed the proposed lawn areas to produce a dense turf, as specified.</li> </ol>	<ul> <li>After lawn areas have been prepared, take no heavy objects over them except lawn rollers.</li> </ul>	Registration Seal
the responsibility of the Subcontractor. il as required to complete the job. Topsoil must	<u>SEED TYPE                                    </u>	3.4 CLEANING	i. After preparation of lawn areas and with topsoil in semi-dry condition, roll lawn planting areas in two directions at approximately right angles with water ballast roller weighing 100	TUT
sults specified. and preparation of this supplied topsoil to render	Annual Ryegrass 20% 95% 80% 2.1.5 Non-Irrigated Seed Mixture proportioned by volume as indicated below:	3.4.1 Perform Cleaning during installation of the work and upon completion of the work to the approval of the Landscape Architect. Remove from site	to 300 lbs. j. Rake or scarify and cut or fill irregularities that develop as	- ANDER
the responsibility of the Subcontractor. topsoil, shall be fertile, friable, dark in color and	SEED TYPE PROPORTION PURITY GERMINATION Penn Lawn Fescue 60% 90% 85%	all excess materials, debris, and equipment. Repair damage resulting from seeding operations. 3.5 MAINTENANCE	required until area is true and uniform, free from lumps, depressions, and irregularities.	100 K
productive soil, capable of sustaining vigorous of clay lumps, subsoil, noxious weeds or other stones of 1" in any dimension, roots, sticks, and	Kentucky 28# Common Bluegrass 20% 90% 90% Pennfine Perennial Rye 20% 90% 90%	3.5 MAINTENANCE 3.5.1 See Landscape Maintenance and Warranty Section.	<ul> <li>Restore prepared areas to specified condition if eroded, settled or otherwise disturbed after fine grading and prior to sodding.</li> </ul>	1 mil
ial: not frozen or muddy. PH of soil range	2.1.6 Fertilizer: granular, non burning product composed of not less that 50% organic slow acting, guaranteed analysis professional fertilizer.	3.6 ACCEPTANCE	I. Dampen dry soil prior to sodding. 3.3 INSTALLATION	NOS ANDS
nore than 2 percent of particles measuring over	2.1.7 Ground Limestone: Used if required by soil test report: Containing not less than 85% of total carbonates and ground to such fineness that 50%	3.6.1 See Landscape Maintenance and Warranty Section. END OF SECTION	3.3.1 Sodding:	
e used in planting mixtures as specified in Trees, er; all beds prepared as specified.	will pass through a 100 mesh sieve and 90% will pass through a 20% mesh sieve.	LAWN SODDING	<ol> <li>Lay sod to form a solid mass with tightly fitted joints. Butt ends and sides of sod strips. Do not overlay edges. Stagger strips to offset joints in adjacent course. Remove excess sod to avoid othering</li> </ol>	No.         Date           1         08/11/2021         Des           2         10/15/2021         HD0
	2.1.8 Straw Mulch: Used in crimping process only. Clean oat or wheat straw well seasoned before bailing, free from mature seed—bearing status, or roots of prohibited or noxious weeds.	1.0 GENERAL 1.1 SUMMARY	of adjacent grass. Provide sod pad top flush with adjacent curbs, sidewalks, drains, and seeded areas.	3 12/30/2021 Peri
of this Section until grading tolerances specified	2.1.9 Water: Free of substance harmful to seed growth. Hoses or other methods to transpiration furnished by Sub Contractor.	1.1.1 Includes But Not Limited To	2. Do not lay dormant sod or install sod on saturated, frozen soil. 3. Install initial row of sod in a straight line, beginning at the bottom of	
	3.0 EXECUTION	<ol> <li>Furnish and install sodded lawn as described in Contract Documents.</li> <li>QUALITY ASSURANCE</li> </ol>	slopes, perpendicular to direction of the sloped area. Place subsequent rows parallel to and lightly against previously installed row.	
t weeds from planting areas by their roots and ore placing top soil in landscape areas, remove n in any dimension and foreign matter such as	<ul><li>3.1 INSPECTION</li><li>3.1.1 Landscape Architect or General Contractor's representative must approve</li></ul>	1.2.1 Sod: Comply with American Sod Producers Association (ASPA) classes of sod materials.	<ol> <li>Peg sod on slopes greater than 3 to 1 or in centerline of swales to prevent slippage at a rate of 2 stakes per yard of sod.</li> </ol>	
ns, sticks, concrete, etc. remove any imported base material present in	finish surfaces, grades, topsoil quality and depth. Do not start seeding work until unsatisfactory conditions are corrected.	1.3 SUBMITTALS	5. Water sod thoroughly with a fine spray immediately after laying to obtain moisture penetration through sod into top 4 inches of topsoil.	
natural subgrade or other material acceptable to	3.2 PREPARATION 3.2.1 SURFACE PREPARATION	1.3.1 Submit sod growers certification of grass species. Identify source location.	6. Roll with light lawn roller in two directions perpendicular to each other to ensure contact with sub grade.	
	1. Seven days maximum prior to seeding, —	1.3.2 Submit manufacturer's certification of fertilizer.	<ol> <li>Install sod at indicated areas within contract limits and areas adjoining contract limits disturbed as a result of construction operations.</li> </ol>	
-	A. Treat Lawn areas if required with "Round—Up" by Monsanto, per label direction to kill existing vegetation prior to seeding.	<ol> <li>DELIVERY, STORAGE, AND HANDLING</li> <li>Cut, deliver, and install sod within 24 hour period.</li> </ol>	operations. 8. Damage to sodded area resulting from erosion to be repaired by Subcontractor.	B
ndcover Planting Areas — 3 inches minimum	B. Loosen topsoil areas to minimum depth of 4", dampen thoroughly, and cultivate to properly break up clods and lumps.	1.4.2 Do not harvest or transport sod when moisture content may adversely affect sod survival.	Subcontractor. 3.4 CLEANING	Project Number: 20.005.0
Areas — 12 inches minimum throughout entire 1.	C. Rake area to remove clods, rocks, weeds, roots, debris, and stones over 1" in any dimension.	1.4.3 Protect sod from sun, wind, and dehydration prior to installation. Do not tear, stretch, or drop sod during handling and installation.	3.4.1 Perform Cleaning during installation of the work and upon completion of the work to the approval of the Landscape Architect. Remove from site	Drawn By: RW Scale:
relative to walks or curbs —	D. Grade lawn areas to smooth, free draining even surface with a loose, moderately coarse texture. Roll and rake, remove ridges,	1.4.4 Sod which dries out before installation will be rejected.	all excess materials, debris, and equipment. Repair damage resulting from sodding operations.	Drawing Title
areas — 1/4 inch below Areas — 1 1/2 inches below	and fill depressions as required to drain. E. Apply limestone to supplied topsoil if required by soil test report	<ul><li>1.5 PROJECT CONDITIONS</li><li>1.5.1 See Landscape Preparation section.</li></ul>	<ul><li>3.5 MAINTENANCE</li><li>3.5.1 See Landscape Maintenance and Warranty Section.</li></ul>	LANI SPECIF
und Cover Areas — 3 inches below	E. Apply limestone to supplied topsoil if required by soil test report at rate determined by the soil test, to adjust pH of topsoil to not less than 6.0 no more that 6.8. Distribute evenly by	1.5.1 See Landscape Preparation section.	3.6 ACCEPTANCE	Drawing No:
			3.6.1 See Landscape Maintenance and Warranty Section. END OF SECTION	- I
				Α

# Grandmont Rosedale Park Collective II

# 9710 - 9730 W Outer Dr. Detroit, MI 48223

# TOTO

### WNER

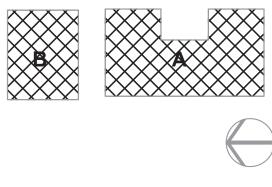
GRPC 4 Limited Dividend Housing Association mited Partnership, a Michigan limited partnership 9800 Grand River Detroit, MI 48223

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> IEP ENGINEERING A ENGINEERING 00 S. Old Woodward Ave Suite 100 irmingham, MI 48009 8-258-1610 phone vww.ma-engineering.com

STRUCTURAL ENGINEERING ESURGET ENGINEERING 219 Woodward Ave. uite 306 Detroit, MI 48201

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No.	Date	Description		
1	08/11/2021	Design Development		
2	10/15/2021	HDC		
3	12/30/2021	Permit		
Projec	ct Number: 20.0	005.02		
Drawr	By: RW	Approved By: EB		
Scale	:	1" = 20'		
Drawing Title LANDSCAPE SPECIFICATIONS Drawing No:				
		1-21		

I	I	I	<u> </u>	I		<u> </u>
EXTERIOR PLANTS		pecies that mature at heights over 25'-0" with a single,	7.0	minimum size designated on the drawings.	3.6.3	Stake deciduous trees under 4" caliper. Stake evergreen trees under 6'-0" tall and over with metal fence post, three (3)per tree.
1.0 GENERAL	main trunk. T not acc <del>e</del> ptable	Frees that have the main trunk forming a "Y" shape are e.	3.0 3.1	EXECUTION	3.6.4	Stake/guy all trees immediately after installation. When high winds o other conditions which may effect tree survival or appearance occur
1.1 SUMMARY 1.1.1 Includes But Not Limited To	4. Plants planted stock).	in rows shall be matched in form, (see specimen	3.1.1	Landscape Architect or General Contractor's representative must approve		during the warranty period, the Sub-Contractor shall immediately report the staking/guying.
1. Furnish and install landscaping plants as described in Contract Documents.	5. Plants larger t	than those specified in the plant list may be used when the Landscape Architect.		proposed planting areas and conditions of installation. Do not start planting work until unsatisfactory conditions are corrected.	3.6.5	Guy deciduous trees 4" caliper and over. Stake evergreen trees 6'-0
2. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply		unds shall be present with a diameter of more than 1"	3.1.2	Individual plant locations shall be staked on the project site by the Landscape Contractor and approved by the Landscape Architect before	3.6.6	tall and over with metal fence post, three (3) per tree. All work shall be acceptable to the Landscape Architect/Owner's
to this Work. Refer to the Project Manual for Division 01 requirements.		nds must show vigorous bark on all edges. s shall be unsheared and branched to the ground.		any planting pits are dug. The Landscape Architect reserves the right to adjust plant material locations to meet field conditions, without additional cost to the General Contractor / Owner.		representative.
1.2.1 Plant names indicated, comply with "Standardized Plant Names" as	8. Shrubs and sm	nall plants shall meet the requirements for spread and	3.1.3	Accurately stake plant material according to the Drawings. Stakes shall be above grade, painted a bright color, and labeled with the name of the	3.7 3.7.1	Remove or cut back broken, damaged, and unsymmetrical growth of
adopted by the latest edition of the American Joint Committee of Horticultural Nomenclature. Names of varieties not listed conform generally with names accepted by the nursery trade. Provide stock true	5	d on the drawings. s shall be subject to approval by the Landscape		plant material to be installed at that location.	3.7.2	wood. Multiple leader plants: preserve the leader which will best promote th
to botanical name and legibly tagged.	Architect as to	o size, health, quality, and character.	3.2 3.2.1	TIME OF PLANTING Evergreen material: Plant Evergreen materials between September 1 and		symmetry of the plant. Do not prune terminal leader. anches flush with the trunk of the main branch, at a point beyond a
1.2.2 Comply with sizing and grading standards of the latest edition of "American Standard for Nursery Stock". A plant shall be dimensioned as it stands in its natural position.		s are not acceptable. materials from licensed nursery or grower.	0.2.1	October 15 or in spring before new growth begins. If project requirements require planting at other times, plants shall be sprayed with		lateral shoot or bud a distance of not less than ½ the diameter of t supporting branch. Make cut on an angle.
1.2.3 All plants shall be nursery grown under climatic conditions similar to those in the locality of the project for a minimum of two years.		dug with adequate fibrous roots, to be covered with a ating of mud by being puddled immediately after they	3.2.2	anti-desiccant prior to planting operations. Deciduous material: Plant deciduous materials in a dormant condition. If		Prune evergreens only to remove broken or damaged branches.
1.2.4 Stock furnished shall be at least the minimum size indicated. Larger	are dug or packed	d in moist straw or peat moss.		deciduous trees are planted in leaf, they shall be sprayed with anti-desiccant prior to planting operation.	3.8 3.8.1	MAINTENANCE See Landscape Maintenance and Warranty Standards.
stock is acceptable, at no additional charge. Larger plants shall not be cut back to size indicated.	2.1.3 Container grown s for the root syste whole.	tock: grown in a container for sufficient length of time m to have developed to hold its soil together, firm, and	3.2.3	Planting times other than those indicated must be acceptable to the Landscape Architect.	3.9	CLEANING
1.2.5 Provide "specimen" plants with a special height, shape, or character of growth. Landscape Subcontractor is to tag specimen trees or shrubs at	1. No plants shal	I be loose in the container.	3.3	PREPARATION	3.9.1	Perform cleaning during installation of the work and upon completion the work. Remove from all site excess materials, soil, debris, and
the source of supply. The Landscape Subcontractor shall inspect all plant material at source prior to Landscape Architect's approval. Landscape Subcontractor shall accompany Landscape Architect on final selection trip.	2. Container stoc	k shall not be root bound.	3.3.1	General: See Landscape Preparation Section	FND OF	equipment. Repair damage resulting from planting operations. SECTION
The Landscape Architect will inspect specimen selections for suitability and adaptability to selected location. When specimen plants cannot be	•	d or thin plants will not be accepted. shall be generous, well twigged, and the plant as a	3.3.2	Vegetation Removal 1. Strip existing grass and weeds, including roots from all bed areas		CAPE MAINTENANCE AND WARRANTY STANDARDS
purchased locally, provide sufficient photographs of the proposed specimen plants for approval.	whole well bus	hed to the ground.		leaving the soil surface one (1") inch below finish grade.	1.0	GENERAL
1.2.6 Plants may be inspected and approved at the place of growth for compliance with specification requirements for quality, size, and variety.		e in a moist, vigorous condition, free from dead wood, er root or branch injuries.		<ol> <li>Herbicide: as required to prepare area for new planting applied to all ground cover, evergreen and shrubbery beds and all mulch areas before application of preemergence herbicide, per manufacture's</li> </ol>	1.1	SUMMARY
1.2.7 Approval of plant selection at the place of growth shall not impair the right of inspection and rejection upon delivery at the site or during	and climate as ex	nsists of plants growing under natural conditions in soils ist at location to be planted, in locations lending		recommendations. Clean area of all dead material after five (5) days.	1.1.1	Includes But Not Limited To 1. Provide maintenance for new landscaping as described in Contract
progress of the work. 1.2.8 Provide percolation testing by filling plant pits with water and monitoring		per collecting practices. Root system (balls) to be at (25%) percent larger than specified for nursery grown		3. Pre-Emergence Herbicide: applied per manufacturer recommendations to same area where "Herbicide" has been applied and to planting bed		Documents.
length of time for water to completely percolate into soil. Submit test results to Landscape Architect prior to starting work.	2.1.5 Specimen stock: c	all specimen designated plantings are to be nursery		areas, after area is cleared of dead vegetation.		2. The requirements of the Section include a one (1) year warranty period from date of acceptance of installation performed by the General Contractor's Representative and Landscape Architect.
1.2.9 Before proceeding with work, check and verify dimensions and quantities. Report variations between Drawings and site to Landscape Architect before	species. Plants d	ped, excellent quality, and typical example of the esignated to be planted in rows must be matched, uniform in height, spread, caliper, and branching density.		4. Herbicides to be applied by licensed applicator as required by the State.	2.0	PRODUCTS - Not Used
1.2.10 Plant totals are for convenience only and are not guaranteed. Verify	1. Matched planti	ings should be obtained from the same nursery and, m the same row or line. All specimen material will be		5. Excavate circular plant pits with vertical sides, except for plants specifically indicated to be planted in beds. Provide plant pits per planting details. Depth of pit shall accommodate the root system.	3.0	EXECUTION
amounts shown on Drawings. All plantings indicated on Drawings are required unless indicated otherwise.	approved by th	ne Landscape Architect at nursery.		Scarify the bottom of the pit to a depth of 6".	3.1 3.1.1	PERFORMANCE Acceptance of Installation
1.3 SUBMITTALS	without admixture	g mix: fertile, friable, natural topsoil of loamy character, of subsoil material, obtained from a well drained arable ee from clay, lumps, coarse sands, stones, plants, roots,		<ol> <li>Roughen sides of excavations.</li> <li>Provide premixed planting mixture Type "A" for use around the balls</li> </ol>		1. At the completion of all landscape installation, or pre-approved
1.3.1 Provide and pay for material testing. Testing agency shall be acceptable to the Landscape Architect. Provide the following data:		foreign materials with acidity range of between ph		and roots of all deciduous and evergreen tree plantings.		portions thereof, the Landscape Subcontractor shall request in wri an inspection for Acceptance of Installation in which the Landscap Subcontractor, Landscape Architect, and General Contractor's
1. The loss of weight by ignition and moisture absorption capacity shall be tested for peat moss.	2.1.7 Peat moss: brow peat.	n to black in color, weed and seed free granulated raw	3.3.3	Ground Cover Beds, Perennial Flower Beds, and Ericaceous Plant Beds 1. Excavate existing soil to 12" depth over entire bed area and remove		Representative shall be present. a. Following the acceptance inspection a punch list will be issue
1.3.2 Submit the following material samples to Landscape Architect:	1. Provide ASTM ericaceous pla	D2607 sphagnum peat moss with a ph below 6.0 for		soil from site. Scarify bottom of bed to a 4" depth. Set plants according to drawings and backfill entire bed with premixed planting		the Landscape Architect.
<ol> <li>Peat moss, shredded hardwood bark mulch, planting accessories, pre-emergent herbicides, and plant fertilizers.</li> </ol>	2.1.8 Planting mixture T	ype A — trees: standard planting backfill shall be a		mixture "Type B". Ground Cover shall be planted after bed has been backfilled with plant mix and mulched. Plant ground cover through mulch and into plant mix.		b. Upon completion of all punch list items, the Landscape Arch and/or General Contractor's Representative shall reinspect th project and issue a written statement of Acceptance of
1.3.3 Submit the following materials certification to Landscape Architect:	Add fertilizer Type	e soil (excavated from plant pits), ½topsoil, and ½sand. "A" and "B" to planting mixture per manufacturer's low planting details.	3.3.4	Mass Shrub Beds / Hedge Beds:		Installation and establish the beginning of the Project Warran Period.
<ol> <li>Topsoil source and ph value, peat moss, and plant fertilizer.</li> <li>DELIVERY, STORAGE, AND HANDLING</li> </ol>	2.1.9 Planting mixture T	ype B for perennial flowers, groundcover beds, and		1. Excavate existing soil to 18" depth over entire bed area and remove soil from site. Scarify bottom of the bed to a 4" depth. Set plants		c. At the time of acceptance all plant material shall be of vigo health.
1.4.1 Deliver fertilizer materials in original, unopened and undamaged containers	topsoil, 1/3 sand	planting backfill shall be a mixture of 1/3 screened and 1/3 peat. Al existing soil shall be excavated and fertilizer types "A" and "B" to mixture per		according to drawings and Specifications. Backfill entire bed with (premixed) specified planting mixture Type "A".		d. It is the responsibility of the Landscape Subcontractor to mo the written request for inspection of installation in a timely
showing weight, analysis, and name of manufacturer. Store in manner to prevent wetting and deterioration.	manufacturer's rec Type C for annual	quirements. Follow planting details. Planting mixture flower beds: same as Type "B". Submit a sample to	3.3.5	Annual Flower Beds:		fashion.
1.4.2 Take all precautions customary in good trade practice in preparing plants for moving. Workmanship that fails to meet the highest standards will be rejected.		chitect for approval prior to installation. e A to be "Drimanure" applied per manufacturer		1. Excavate existing soil to 8" depth over entire bed area and remove soil from site. Scarify bottom of bed to a 4" depth. Backfill entire		e. If there is plant material loss prior to the Landscape Subcontractor's written request for inspection of installation, Landscape Contractor shall make all replacements of this dec
1.4.3 Spray deciduous plants in foliage with an approved "Anti-Desiccant"	recommendations.		3.4	bed to an 8" depth with premixed planting mixture "Type B". INSTALLATION		material at no additional cost These replacements are not considered to be the required one (1) replacement of dead p
immediately after digging to prevent dehydration. 1.4.4 Dig, pack, transport, and handle plants with care to ensure protection	recommendations.	e B to be "14—14—14". Apply per manufacturer	3.4.1	Planting shall be performed only by experienced workman familiar with planting procedures under the supervision of a qualified supervisor.		material by the Landscape Subcontractor during the one (1) project warranty period, as outlined below.
against injury. 1.4.5 Inspection certificates required by law shall accompany each shipment		s. per cubic yard of soil mixes. d dolomitic limestone, ninety-five (95%) percent passing	3.4.2	Planting pits shall be round, with vertical sides and flat bottoms, and sized in accordance with outlines and dimensions shown on the planting		<ol> <li>Landscape work may be inspected for acceptance in parts agreeal to the General Contractor's Representative and Landscape Architec provided work offered for Inspection is complete, including mainter</li> </ol>
invoice or order to stock on arrival. The certificate shall be filed with the General Contractor's representative.		h screen. Use to adjust soil pH only, under direction	7 4 7	details. See drawings for planting details.		as required. 3. For work to be inspected for partial acceptance, the Landscape
1.4.6 Protect all plants from drying out. If plants cannot be planted immediately upon delivery, properly protect them with soil, shredded	2.1.14 Sand to be clean, aggregates.	coarse, ungraded conforming to ASTM-C-3 for fine	3.4.3 3.4.4	If obstructions are encountered that are not indicated, do not proceed		Subcontractor shall provide a drawing outlining work completed an supply a written statement requesting acceptance of this work
hardwood bark mulch, or in a manner acceptable to the General Contractor's representative.		rotective film emulsion providing a protective film over prmeable to permit transpiration. Mixed and applied in		with planting operations until alternative plant locations have been selected and approved in writing by the Landscape Architect. Where location or spacing dimensions are not clearly shown, request clarification	3.1.2	completed to date. Project Warranty
1.4.7 Water heeled in plantings daily.		lanufacturer's instructions. Ich shall be double processed, dark shredded hardwood	745	by the Landscape Architect. Set plant material in the planting pit to proper grade and alignment.		<ol> <li>The Project Warranty Period begins upon written preliminary acceptance of the project installation by the Landscape Architect</li> </ol>
1.4.8 No plant shall be bound with rope or wire in a manner that could damage or break the branches.	bark that is clean, in size, shape, and	, free of debris and sticks. Materials shall be uniform d texture. Submit samples to Landscape Architect for	0.4.0	1. Set plants upright, plumb, and faced to give the best appearance or		General Contractor's representative.
1.4.9 Cover plants transported on open vehicles with a protective covering to prevent wind burn.		installation. Install mulch to finish grade, level smooth, mps, or depressions.		relationship to each other or adjacent structure. 2. Set plant material so it is flush to finish grade after settling, or 1-2"		2. The Landscape Subcontractor shall guarantee trees, shrubs, ground cover beds and seeded or sodded areas through construction and a period of one (1) year after date of Acceptance of Installati
1.4.10 Frozen or muddy topsoil is not acceptable.	2.1.17 Water: free of sub methods of transp	ostances harmful to plant growth. Hoses or other portation shall be furnished by Sub Contractor.		higher in poorly drained soil, or as directed by Landscape Architect.		against defects including death and unsatisfactory growth, except defects resulting from neglect, abuse or damage by others or un
<ul><li>1.5 PROJECT CONDITIONS</li><li>1.5.1 See Landscape Preparation Section.</li></ul>	2.1.18 Stakes for staking min. of 18" deep	:(3) Three Hardwood, 2" x 2" x 8'—0" long. Driven a firmly into subgrade prior to backfilling. Stakes for		<ol> <li>No filling will be permitted around the trunks or stems.</li> <li>Do not cover top of root ball with soil.</li> </ol>		phenomena or incidents which are beyond Landscape Subcontracto control.
1.5.2 Work notification: notify Landscape Architect at least seven working days prior to installation of plant material.	guying: Hardwood,	2" x 2" x 36" long.		5. Backfill pit with planting mixture. Do not use frozen or muddy mixtures for backfilling.	3.1.3	Maintenance During One (1) Year Project Warranty
1.5.3 Protect existing utilities, paving, and other facilities from damage caused		aterial:Wit 2"—3" wide fabric straps, connect from tree after (1) year, allow for flexibility. (Do not use wire &		6. Form a ring of soil around the edge of the planting pit to retain		<ol> <li>To insure guarantee standards, the following maintenance procedu for trees, shrubs, and ground covers shall be executed during construction and for the full Project Warranty Periods.</li> </ol>
by landscaping operations. 1.5.4 A complete list of plants, including a schedule of sizes, quantities, and	2.1.20 Tree wrap: standa	rd waterproofed tree wrapping paper, 2—1/2" wide,	3.4.6	water. After balled and burlapped plants are set, tamp planting mixture around		a. Landscape Subcontractor shall be responsible for only one (1)
other requirements is shown on the proposal form. In the event that quantity discrepancies or material omissions occur in the proposal form,	ream, cemented to	of crepe kraft paper weighing not less than 30 lbs. per ogether with asphalt. Secure tree wrap with erial at top and bottom. Remove after first winter.		of balls and fill all voids and remove air pockets.		replacement of any plant materials during the one (1) year Project Warranty Period. These include those which are deac in the opinion of the Landscape Architect are in an unhealth
Subcontractor shall notify the Landscape Architect during the proposal bidding process.	·			Remove all burlap, ropes, and wires from top 1/3 of balls. Space ground cover plants in accordance with indicated dimensions.		unsightly condition, or having lost natural shape, resulting fro dieback, excessive pruning, or inadequate or improper maintenance as part of the guarantee.
1.5.5 An irrigation system will be installed prior to planting. Locate, protect, and maintain the irrigation system during planting operations. Repair	2.1.21 Twine: two-ply jut 2.2 MEASUREMENTS	e material.	00	Adjust spacing as necessary to evenly fill planting bed with indicated quantity of plants. Plant to within 12" of trunks and shrubs and to		b. Prior to any replacements, Landscape Subcontractor shall rev
irrigation system components, damaged during planting operations, at the Landscape Subcontractor's expense.	2.2.1 Measure height an	d spread of specimen plant materials with branches in	3.4.9	within 6" of planting bed. Spread and arrange roots of bare rooted plants in their natural position.		individual plants in question with Landscape Architect to determine reason for plant demise.
1.5.6 The Landscape Subcontractor shall inspect existing soil conditions in all areas of the site where his operations will take place, prior to the beginning of work. It is the responsibility of the Landscape Subcontractor	2.2.2 The measurements	ions as indicated on Drawings or Plant List. s for height shall be taken from the ground level to the		Work in planting mixture. Do not mat roots together. Cut all broken and frayed roots before installing planting mixture.		2. Replacements must meet the standards specified on the Landsca plans and in the specifications, i.e. quality, species of plant mate
to notify the General Contractor's representative and the Landscape Architect in writing of any conditions which could affect the survivability		the top of the plant and not the longest branch. Id be average of plant, not greatest diameter. For		Water immediately after planting.		and planting procedures to receive approval of replacement mate by Landscape Architect.
of plant material to be installed.	example, plant me	asuring 15 inches in widest direction and 9 inches in would be classified as 12 inch stock.	3.4.11	Apply pre—emergent herbicide to bed areas per manufacturer's recommendations before mulching.		<ol> <li>Costs for replacements are assumed part of bid quotations and therefore will not result in an additional cost to General Contract Landscape Architect.</li> </ol>
1.6.1 See Landscape Maintenance and Warranty Standards.	2.2.4 Plants properly tri direction.	mmed and transplanted should measure same in every	3.5	MULCHING		4. Areas damaged as a result of replacement operation are to be
2.0 PRODUCTS	2.2.5 Measure caliper of	trees 6 inches above surface of ground.	3.5.1	Mulch trees and shrub planting pits and shrub beds with shredded hardwood bark mulch 3" deep to dripline immediately after planting. Leave 3" circle of bare soil around tree trunk. Thoroughly water mulched		restored by Landscape Subcontractor at no cost to the General Contractor or Landscape Architect.
<ul><li>2.1 MATERIALS</li><li>2.1.1 Plants: Provide plants typical of their species or variety; with normal,</li></ul>		other dimensions of plant materials are omitted from naterials shall be normal stock for type listed.	3.5.2	areas. After watering, rake mulch to provide a uniform finished surface. Mulch shall not be placed in contact with trunks or stems.		5. The Landscape Subcontractor shall be responsible for watering all plantings through the warranty period and shall keep guy wires to raise tree balls which settle, furnish and apply sprays as
densely developed branches and vigorous, fibrous root systems. Provide only sound, healthy, vigorous plants free from defects, disfiguring knots, sunscald injuries, frost cracks, abrasions of the bark, plant diseases,	2.2.7 Plant materials lar written approval o	rger than those specified may be supplied, with prior f Landscape Architect, and:		Mulch ground cover beds with shredded bark mulch 2" to 3" deep prior		necessary to keep the plantings free of disease and insects until end of the warranty period.
sunscald injuries, frost cracks, abrasions of the bark, plant diseases, insect eggs, borers, and all forms of infestation. All plants shall have a fully developed form without voids and open spaces.		ith Contract Document requirements in all other	3.5.4	to planting. Plant ground cover through mulch.		6. The Landscape Subcontractor shall remove and replace trees, shr or other plants found to be dead or in unhealthy condition.
<ol> <li>Dig balled and burlapped plants with firm, natural balls of earth of sufficient diameter and depth to encompass the fibrous and feeding</li> </ol>		onal cost to Owner.	3.5.4 3.6	WRAPPING, GUYING, AND STAKING		a. Rejected plants and materials shall be removed promptly.
root system necessary for full recovery of the plant. Provide ball sizes complying with the latest edition of the "American Standard for		ts or balls are increased proportionately.	3.6.1	Inspect trees for injury to trunks, evidence of insect infestation and improper pruning before wrapping.		
Nursery Stock". Cracked or mushroomed balls are not acceptable. 2. All trees shall have clay or clay loam balls. Trees with sand balls will	2.2.8 The height of the the roots to the t	trees, specified by height, measured from the crown of top of the top branch, shall not be less than the	3.6.2	Wrap trunks of all trees spirally from bottom to top with specified tree wrap and secure in place.		
be rejected.						
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inder nds or		sci c. Tre	placements shall be made during the following normal planting hedule. ees and shrubs which are in doubt shall be replaced, unless, in e opinion of the Landscape Architect, it is advisable to extend		Grar Park
cur / repair		Pro 7. The Lan	oject Warranty Period for full growing Season. ndscape Contractor shall apply anti-desiccants on evergreen nd evergreen shrub beds within 150' of major streets and		
6'-0"		drives, ı warranty	no later than December 1, during the one (1) year project y.		9710
		trees to still pre	st spring after plant installation the contractor shall check all b insure twine has rotted from around the trunk. If twine is sent, it shall be removed and disposed of off—site.	1	Dr. D
n of new :e the	714	be remo period.	es, guy wires, tree wrap paper, dead twigs and branches shall oved from tree and plant materials at the end of this warranty	Γ	
d a of the	3.1.4	1. The Lan	e of Seeded Lawn Areas ndscape Subcontractor shall maintain seeded lawn areas.		
		pei spe	ater, fertilize, weed, and apply chemicals until a dense lawn of rmanent grasses, free from lumps and depressions or any bare ots, none of which is larger than one (1) foot of area up to a aximum of 3% of the total seeded lawn area is established.		
		gei	eded lawn that fails to show a uniform growth and/or rmination shall be reseeded until a dense cover is established, gardless of what season the seed was installed.		OWNER GRPC 4 Lir Limited Par
ation of nd		for unti	ndscape Subcontractor shall maintain and mow all lawn areas il acceptance of installation (typically 3 mows) . When lawn 3 3" in height it shall be cut to 2" in height.	<u>H</u>	19800 Grar Detroit, MI 313-387-47 313-387-51
		Installat	ner assumes cutting responsibilities following the Acceptance of ion of the seeded lawn.		www.grand
		Final Ac	clusion of Project Warranty Period and after receiving Written cceptance by General Contractor's representative and Landscape ct, the Owner shall assume all seeded lawn maintenance ibilities.		INTOTO ST 6505 Wood Suite 200 Detroit, MI
itract	3.1.5		e of Sodded Lawn Areas ndscape Subcontractor shall maintain sodded lawn areas.		313-395-50 www.intoto
anty the		ins is	ater, fertilize, spot weed, apply herbicides, fungicides, secticides and resod until a full uniform, smooth stand of sod knitted to topsoil, and accepted by the Landscape Architect or s or her representative.		CIVIL ENG PEA GROU 45 W. Gran Suite 501
		3. Repair,	od thoroughly, as required to establish proper rooting. rework, and resod all areas that have washed out or are	G	Detroit, MI 313-769-57 www.peagr
		4. Mow law knitted of grass	Replace undesirable or dead areas with new sod. wn areas once as soon as sod has rooted sufficiently and to the topsoil. Cut back to 2" height. Not more than 40% s leaf shall be removed at any single mowing. Excess clipping emoved by the Landscape Subcontractor. The Landscape		MEP ENGIN MA ENGIN 400 S. Old Suite 100 Birminghan
ved n writing dscape		Subcont of insta	Illation (typically 3-mows).		248-258-16 www.ma-er
issued by		Installat 6. At conc	tion of the sodded lawn. Clusion of Project Warranty Period and after receiving Written cceptance by General Contractor's representative and Landscape		STRUCTUI RESURGE 4219 Wood Suite 306
Architect ct the		Architec responsi	ct, the Owner shall assume all sodded lawn maintenance ibilities.	F_	Detroit, MI 313-315-32 www.resurg
/arranty f vigorous	3.1.6	1. At the	tance Upon Conclusion of the Warranty Period conclusion of the Project Warranty Period the Landscape tractor shall request a project inspection for final acceptance		·
o make		in which Represe	n the Landscape Contractor, Landscape Architect and Owner's entative shall be present. The inspection for final acceptance, a punch list will be issued		
nely		by the the Lan reinspec	Landscape Architect. Upon completion of all punch list items, adscape Architect and the Owner's Representative shall of the project and issue a Written Statement of Final		
tion, the is dead not ead plant	END OF	Accepta SECTION	ince.		Key Plan
greeable	NOTE:	lieu of a Ge	a may at their option elect to utilize a Construction Manager in eneral Contractor for all matters pertaining to these ns and the site work.	<u>E</u>	
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у.					Drawing Titl
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# andmont Rosedale rk Collective II

# 10 - 9730 W Outer **Detroit, MI 48223**

# TOTO

Limited Dividend Housing Association Partnership, a Michigan limited partnership Grand River
 MI 48223
 7-4732 phone
 37-5158 fax
 grandmontrosedale.com

TECT STUDIO LLC odward Ave /I 48202 5030 phone otostudio.com

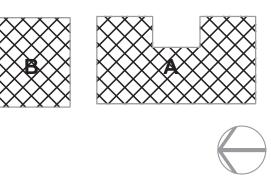
GINEERING UP and River Ave.

II 48226 5770 phone group.com

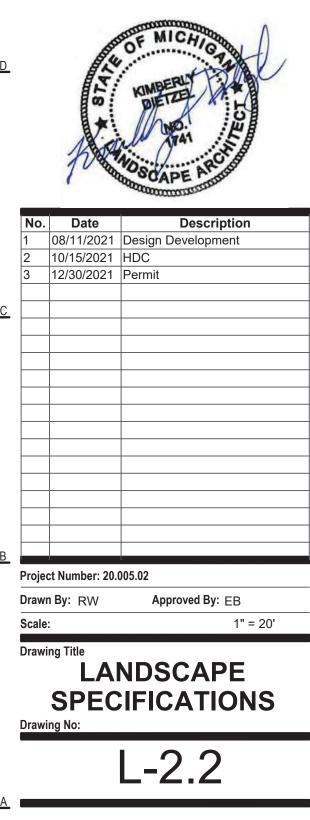
INEERING INEERING Id Woodward Ave am, MI 48009 1610 phone -engineering.com

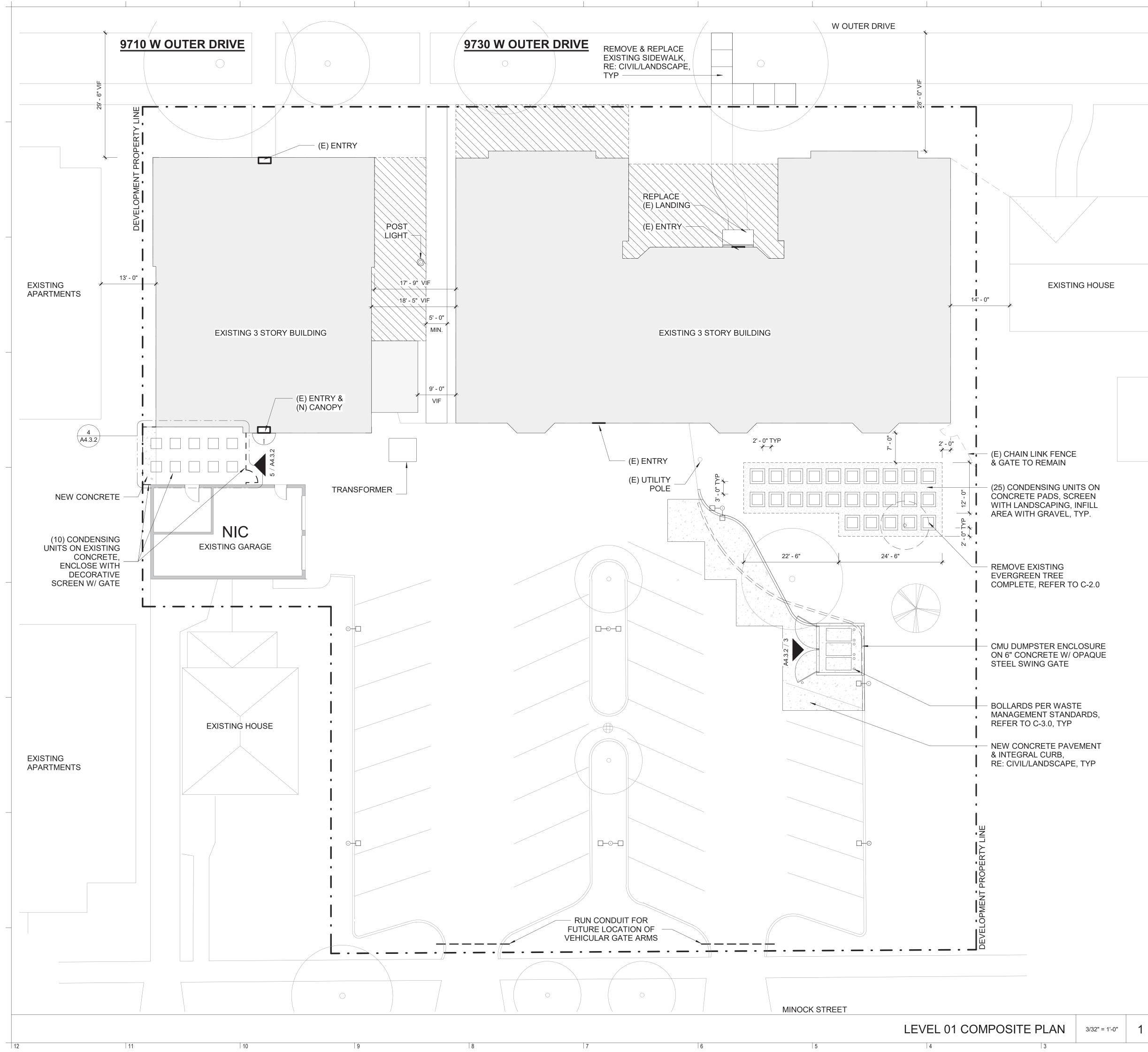
URAL ENGINEERING dward Ave.

MI 48201 -3290 phone surget-engineering.com

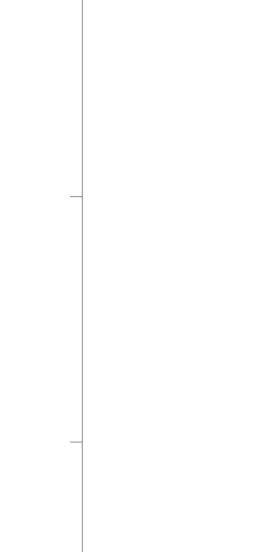


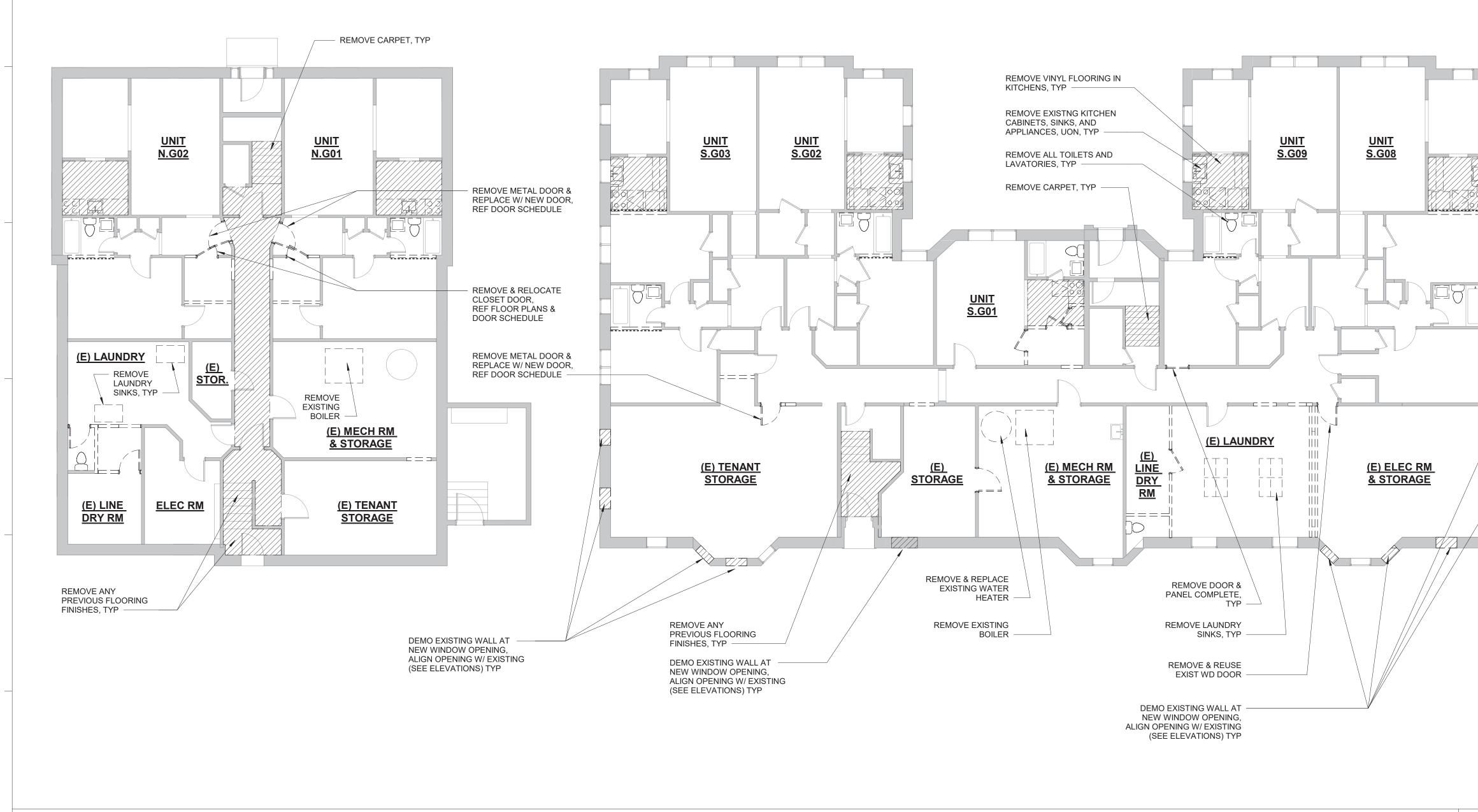
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	SITE PLAN LEGEND	Grandmont Rosedale Park Collective II
	AREA TO REGRADE	
		9710 - 9730 W Outer Dr. Detroit, MI 48223
	<u>GENERAL SITE PLAN NOTES</u> 1. SITE PLAN SHOWN FOR REFERENCE ONLY, REFER TO	INTOTO
	CIVIL/LANDSCAPE AND ELECTRICAL DRAWINGS AND SPECIFICATIONS	STIIDIO
	2. <u>PARKING LOT:</u> RESTRIPE EXISTING PARKING LOT SPACES (RE: CIVIL/LANDSCAPE)	010010
	3. <u>LIGHTING:</u> ALL LIGHTING TO BE LED. REMOVE EXISTING BUILDING-MOUNTED LIGHT FIXTURES AND CONDUIT, AND CLEAN/REMOVE ANY ASSOCIATED PAINT, CAULK AND MISC	<b>OWNER</b> GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership
	HARDWARE. REMOVE LIGHT FIXTURES AT ENTRY DOORS, UON. INSTALL NEW ENTRY DOOR LIGHT FIXTURES AND NEW SITE LIGHTING AT PARKING LOT. WHERE EXISTING FIXTURE IS INDICATED TO BE REFURBISHED, REMOVE FLAKING PAINT AND RUST AT EXISTING HISTORIC BUILDING-MOUNTED LIGHT FIXTURE; REPAIR AS REQUIRED AND REPAINT (RE:	19800 Grand RiverDetroit, MI 48223H313-387-4732 phone313-387-5158 faxwww.grandmontrosedale.com
	<ul> <li>4. <u>GRADING/LANDSCAPING:</u> AT AREAS TO REGRADE: REMOVE</li> </ul>	ARCHITECT INTOTO STUDIO LLC
ISTING HOUSE	EXISTING LANDSCAPING AND GRADE TO SLOPE AWAY FROM BUILDING. REPLACE WITH SIMILAR LANDSCAPING. REMOVE EXISTING LANDSCAPING WHERE OBSTRUCTING NEW AND EXISTING WINDOWS AND ENTRIES. REMOVE EXISTING TREES COMPLETE WHERE INDICATED. REMAINING LANDSCAPING TO BE MAINTAINED. PROVIDE LANDSCAPE SCREENS AT PERIMETERS OF CONDENSING UNITS, AND NEW TREES (RE:	6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com
	<ul> <li>CIVIL/LANDSCAPE)</li> <li>5. <u>POWER &amp; DATA:</u> PROVIDE POWER AND DATA TO FUTURE LOCATION OF REMOTE-OPERATED VEHICULAR GATE ARMS</li> </ul>	PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226
	<ul> <li>(RE: ELECTRICAL &amp; CIVIL/LANDSCAPE)</li> <li>6. <u>SIDEWALK:</u> REMOVE AND REPLACE EXISTING SIDEWALK BETWEEN BUILDING 01 AND BUILDING 02, AND FRONT</li> </ul>	313-769-5770 phone www.peagroup.com
	WALKWAYS AS REQUIRED. NEW SIDEWALK TO BE 5'-0" WIDTH MIN. REPAIR/REPLACE FRONT ENTRY LANDINGS (RE: CIVIL/LANDSCAPE)	MA ENGINEERING 400 S. Old Woodward Ave Suite 100
	7. <u>CONDENSING UNITS:</u> ALL CONDENSING UNITS TO BE INDIVIDUALLY STRAPPED WITH STEEL SECURITY STRAPS AND BOLTED TO CONCRETE (RE: MECHANICAL)	Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com
	8. <u>TRANSFORMER:</u> PROVIDE PAD PER DTE STANDARDS(RE: ELECTRICAL)	STRUCTURAL ENGINEERING RESURGET ENGINEERING
IN		4219 Woodward Ave. Suite 306 Detroit, MI 48201 F 313-315-3290 phone
GUNITS ON		www.resurget-engineering.com
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ER TO C-2.0		
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VASTE		D BENJAMIN THOMAS
TANDARDS, TYP		ARCHITECT + 8 No. 1301068227
PAVEMENT		BOORD ARCHIODO
B, CAPE, TYP		No. Date Description
		1 12/30/2021 PERMIT
		<u>C</u>
		В
		Project Number: 20.005.02 Drawn By: INTOTO Approved By: INTOTO
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		ARCHITECTURAL SITE
		PLAN Drawing No:
N 3/32" = 1'-0" <b>1</b>		A0.1

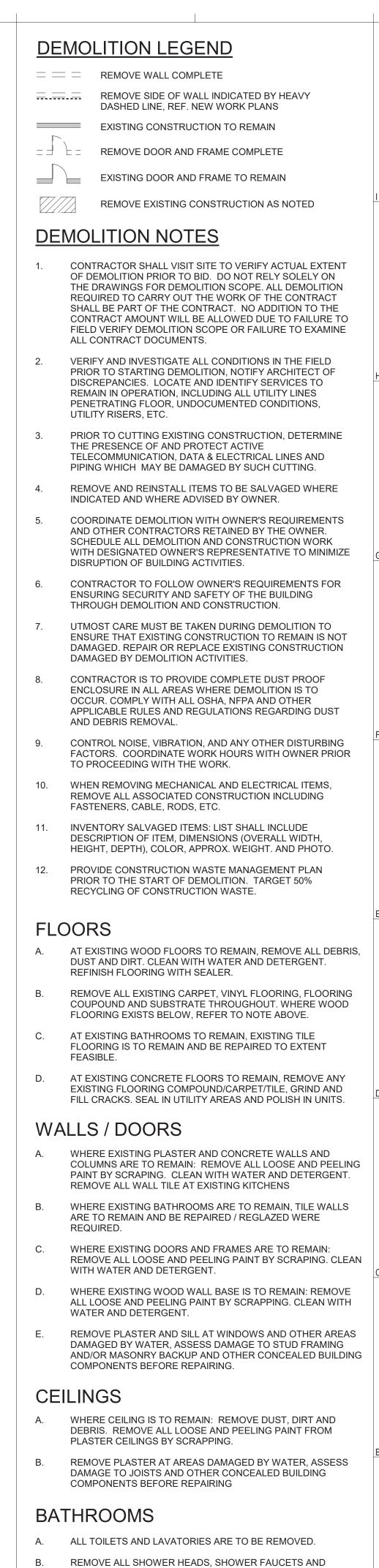




# LEVEL 00 DEMOLITION PLAN

			LEVEL 00 DEMO	
7	6	5	4	

# 9730 W OUTER DRIVE



# 9710 - 9730 W Outer

Dr. Detroit, MI 48223

Park Collective II

**Grandmont Rosedale** 

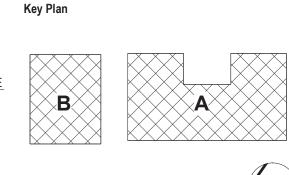
OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

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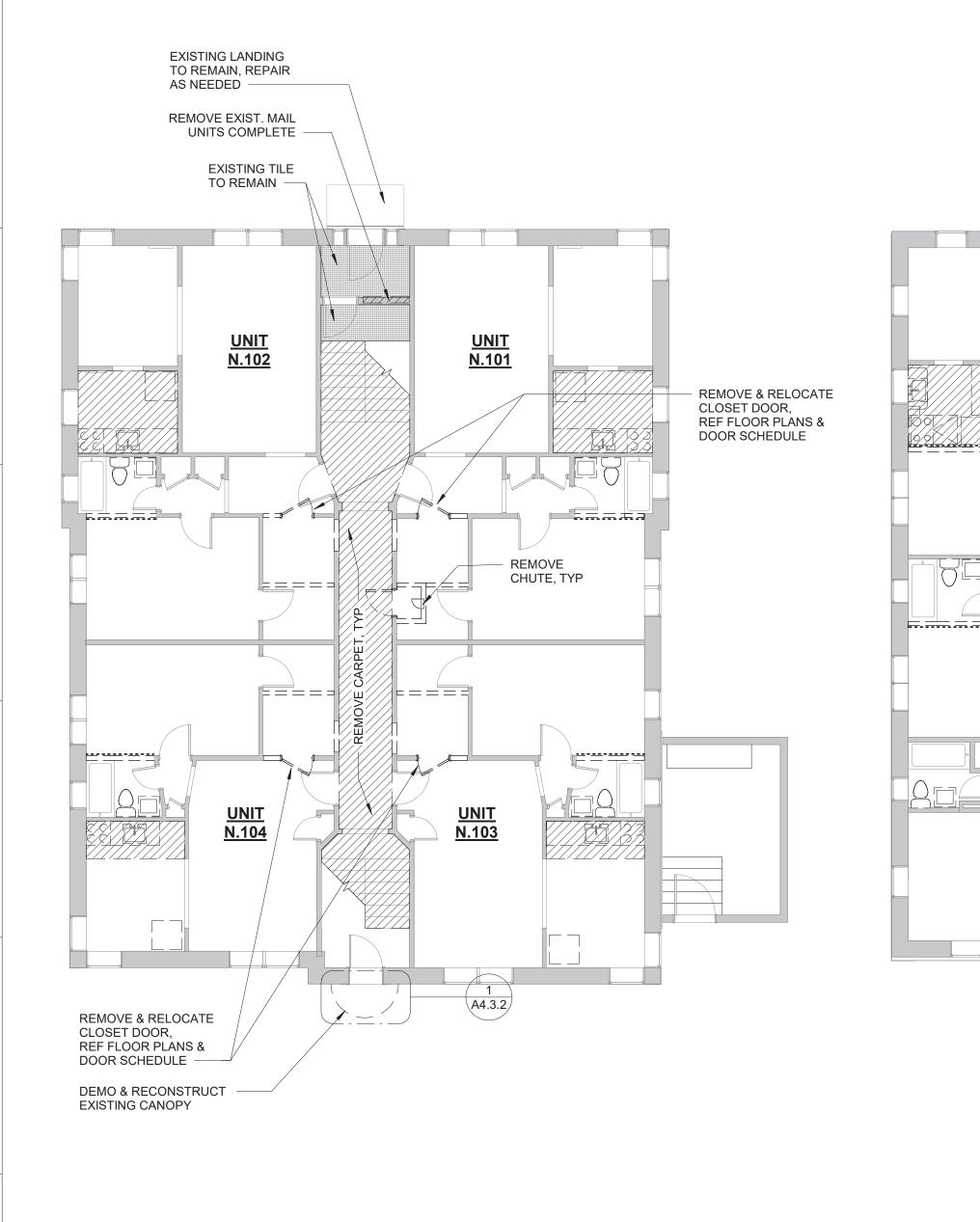


Registration Seal



No. Date Description 1 | 12/30/2021 | PERMIT Project Number: 20.005.02 Drawn By: INTOTO Approved By: INTOTO As indicated Scale: Drawing Title LEVEL 00 DEMOLITION PLAN Drawing No: AD1.0

SHOWER CURTAIN RODS



IN KITCHENS, TYP -REMOVE EXISTNG KITCHEN CABINETS, SINKS, AND APPLIANCES, TYP -REMOVE ALL TOILETS AND LAVATORIES, TYP -REMOVE CARPET, TYP — <u>UNIT</u> UNIT UNIT UNIT REMOVE EXIST. MAIL <u>S.103</u> <u>S.102</u> <u>S.109</u> <u>S.108</u> UNITS COMPLETE — REMOVE & REPLACE LANDING EXISTING TILE TO REMAIN i <u>se se s</u> • <u>- - - - - - - - - - - - - - - - -</u> <u>UNIT</u> <u>S.101</u> ..... /REMOVE BUILT-INS/ / REMÓVÉ CARPET, TYP / / ± |≠ |≠ |≠ |÷ ·6/ \$ //\* <u>UNIT</u> <u>UNIT</u> UNIT <u>UNIT</u> <u>S.104</u> <u>S.105</u> <u>S.106</u> <u>S.107</u> REMOVE ANY PREVIOUS FLOORING FINISHES, TYP -DEMO VINYL FLOORING IN ALL KITCHENS, TYP. DEMO CARPET FLOORING IN ALL UNITS, TYP.

5

REMOVE VINYL FLOORING

# 9730 W OUTER DRIVE





REMOVE WALL COMPLETE

<u> </u>	REMOVE SIDE OF WALL INDICATED BY HEAVY DASHED LINE, REF. NEW WORK PLANS
	EXISTING CONSTRUCTION TO REMAIN

REMOVE DOOR AND FRAME COMPLETE EXISTING DOOR AND FRAME TO REMAIN

REMOVE EXISTING CONSTRUCTION AS NOTED

# **DEMOLITION NOTES**

- CONTRACTOR SHALL VISIT SITE TO VERIFY ACTUAL EXTENT OF DEMOLITION PRIOR TO BID. DO NOT RELY SOLELY ON THE DRAWINGS FOR DEMOLITION SCOPE. ALL DEMOLITION REQUIRED TO CARRY OUT THE WORK OF THE CONTRACT SHALL BE PART OF THE CONTRACT. NO ADDITION TO THE CONTRACT AMOUNT WILL BE ALLOWED DUE TO FAILURE TO FIELD VERIFY DEMOLITION SCOPE OR FAILURE TO EXAMINE ALL CONTRACT DOCUMENTS.
- VERIFY AND INVESTIGATE ALL CONDITIONS IN THE FIELD PRIOR TO STARTING DEMOLITION, NOTIFY ARCHITECT OF DISCREPANCIES. LOCATE AND IDENTIFY SERVICES TO REMAIN IN OPERATION, INCLUDING ALL UTILITY LINES PENETRATING FLOOR, UNDOCUMENTED CONDITIONS, UTILITY RISERS, ETC.
- PRIOR TO CUTTING EXISTING CONSTRUCTION, DETERMINE THE PRESENCE OF AND PROTECT ACTIVE TELECOMMUNICATION, DATA & ELECTRICAL LINES AND PIPING WHICH MAY BE DAMAGED BY SUCH CUTTING.
- REMOVE AND REINSTALL ITEMS TO BE SALVAGED WHERE INDICATED AND WHERE ADVISED BY OWNER.
- COORDINATE DEMOLITION WITH OWNER'S REQUIREMENTS AND OTHER CONTRACTORS RETAINED BY THE OWNER. SCHEDULE ALL DEMOLITION AND CONSTRUCTION WORK WITH DESIGNATED OWNER'S REPRESENTATIVE TO MINIMIZE DISRUPTION OF BUILDING ACTIVITIES.
- CONTRACTOR TO FOLLOW OWNER'S REQUIREMENTS FOR 6. ENSURING SECURITY AND SAFETY OF THE BUILDING THROUGH DEMOLITION AND CONSTRUCTION.
- UTMOST CARE MUST BE TAKEN DURING DEMOLITION TO ENSURE THAT EXISTING CONSTRUCTION TO REMAIN IS NOT DAMAGED. REPAIR OR REPLACE EXISTING CONSTRUCTION DAMAGED BY DEMOLITION ACTIVITIES.
- CONTRACTOR IS TO PROVIDE COMPLETE DUST PROOF ENCLOSURE IN ALL AREAS WHERE DEMOLITION IS TO OCCUR. COMPLY WITH ALL OSHA, NFPA AND OTHER APPLICABLE RULES AND REGULATIONS REGARDING DUST AND DEBRIS REMOVAL.
- CONTROL NOISE, VIBRATION, AND ANY OTHER DISTURBING FACTORS. COORDINATE WORK HOURS WITH OWNER PRIOR TO PROCEEDING WITH THE WORK.
- 10. WHEN REMOVING MECHANICAL AND ELECTRICAL ITEMS, REMOVE ALL ASSOCIATED CONSTRUCTION INCLUDING FASTENERS, CABLE, RODS, ETC.
- INVENTORY SALVAGED ITEMS: LIST SHALL INCLUDE 11. DESCRIPTION OF ITEM DIMENSIONS (OVERALL WIDTH HEIGHT, DEPTH), COLOR, APPROX. WEIGHT. AND PHOTO.
- PROVIDE CONSTRUCTION WASTE MANAGEMENT PLAN 12. PRIOR TO THE START OF DEMOLITION. TARGET 50% RECYCLING OF CONSTRUCTION WASTE.

# FLOORS

- A. AT EXISTING WOOD FLOORS TO REMAIN, REMOVE ALL DEBRIS, DUST AND DIRT. CLEAN WITH WATER AND DETERGENT. REFINISH FLOORING WITH SEALER.
- REMOVE ALL EXISTING CARPET, VINYL FLOORING, FLOORING COUPOUND AND SUBSTRATE THROUGHOUT. WHERE WOOD FLOORING EXISTS BELOW, REFER TO NOTE ABOVE.
- AT EXISTING BATHROOMS TO REMAIN, EXISTING TILE C. FLOORING IS TO REMAIN AND BE REPAIRED TO EXTENT FEASIBLE.
- AT EXISTING CONCRETE FLOORS TO REMAIN, REMOVE ANY D. EXISTING FLOORING COMPOUND/CARPET/TILE, GRIND AND FILL CRACKS. SEAL IN UTILITY AREAS AND POLISH IN UNITS.

# WALLS / DOORS

- WHERE EXISTING PLASTER AND CONCRETE WALLS AND Α. COLUMNS ARE TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT. REMOVE ALL WALL TILE AT EXISTING KITCHENS
- WHERE EXISTING BATHROOMS ARE TO REMAIN, TILE WALLS B ARE TO REMAIN AND BE REPAIRED / REGLAZED WERE REQUIRED.
- WHERE EXISTING DOORS AND FRAMES ARE TO REMAIN: C. REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPING. CLEAN WITH WATER AND DETERGENT.
- WHERE EXISTING WOOD WALL BASE IS TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPPING. CLEAN WITH WATER AND DETERGENT.
- REMOVE PLASTER AND SILL AT WINDOWS AND OTHER AREAS DAMAGED BY WATER, ASSESS DAMAGE TO STUD FRAMING AND/OR MASONRY BACKUP AND OTHER CONCEALED BUILDING COMPONENTS BEFORE REPAIRING.

# CEILINGS

- WHERE CEILING IS TO REMAIN: REMOVE DUST, DIRT AND DEBRIS. REMOVE ALL LOOSE AND PEELING PAINT FROM PLASTER CEILINGS BY SCRAPPING.
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# BATHROOMS

- A. ALL TOILETS AND LAVATORIES ARE TO BE REMOVED.
- REMOVE ALL SHOWER HEADS, SHOWER FAUCETS AND SHOWER CURTAIN RODS

# **Grandmont Rosedale** Park Collective II

# 9710 - 9730 W Outer Dr. Detroit, MI 48223



OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

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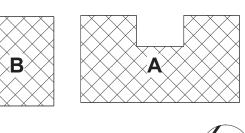
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STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com

# Key Plan



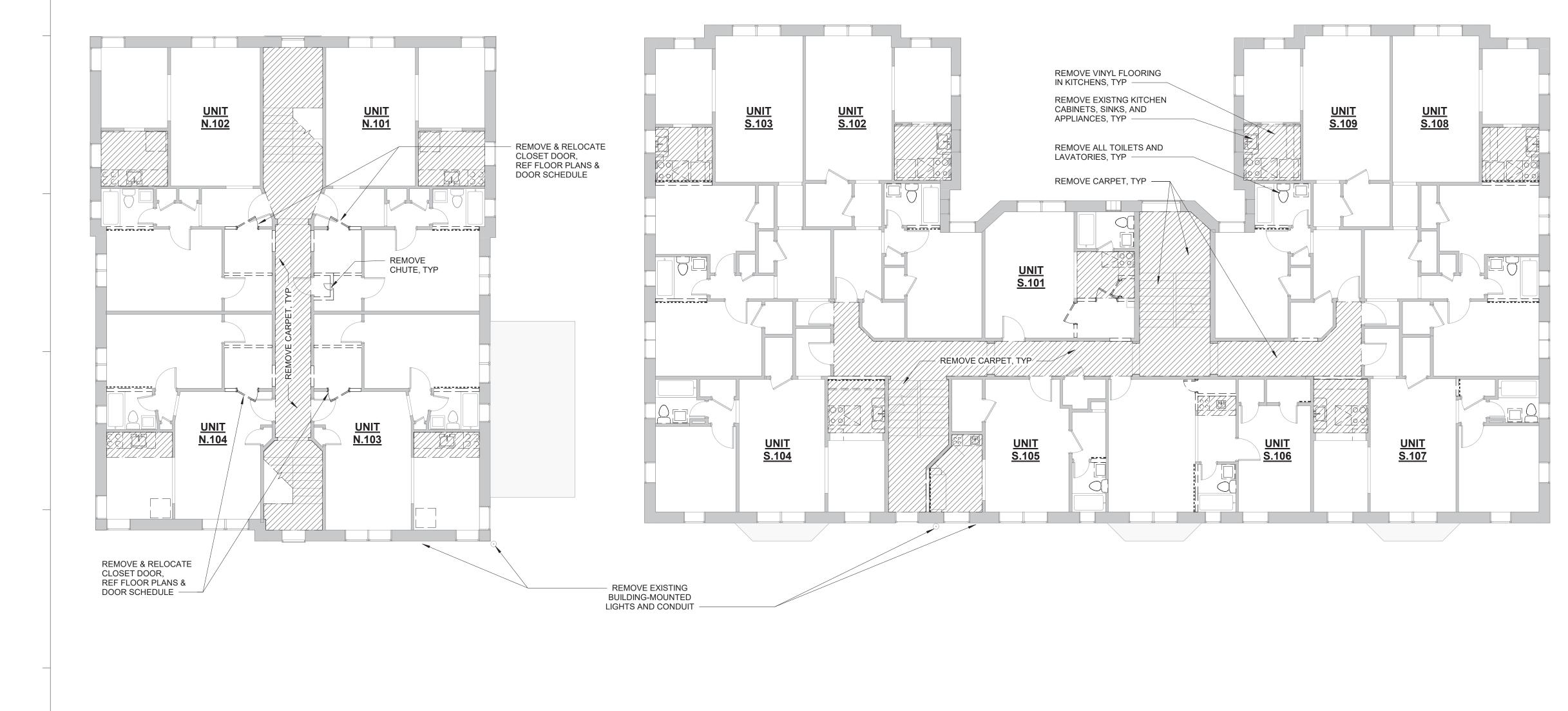
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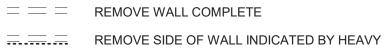
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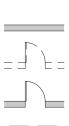


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EXISTING CONSTRUCTION TO REMAIN

DASHED LINE, REF. NEW WORK PLANS

REMOVE DOOR AND FRAME COMPLETE

EXISTING DOOR AND FRAME TO REMAIN

REMOVE EXISTING CONSTRUCTION AS NOTED

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- C. AT EXISTING BATHROOMS TO REMAIN, EXISTING TILE FLOORING IS TO REMAIN AND BE REPAIRED TO EXTENT FEASIBLE.
- D. AT EXISTING CONCRETE FLOORS TO REMAIN, REMOVE ANY EXISTING FLOORING COMPOUND/CARPET/TILE, GRIND AND FILL CRACKS. SEAL IN UTILITY AREAS AND POLISH IN UNITS.

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- D. WHERE EXISTING WOOD WALL BASE IS TO REMAIN: REMOVE ALL LOOSE AND PEELING PAINT BY SCRAPPING. CLEAN WITH WATER AND DETERGENT.
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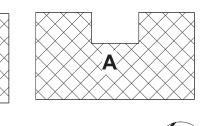
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# Key Plan

**B** 



Registration Seal



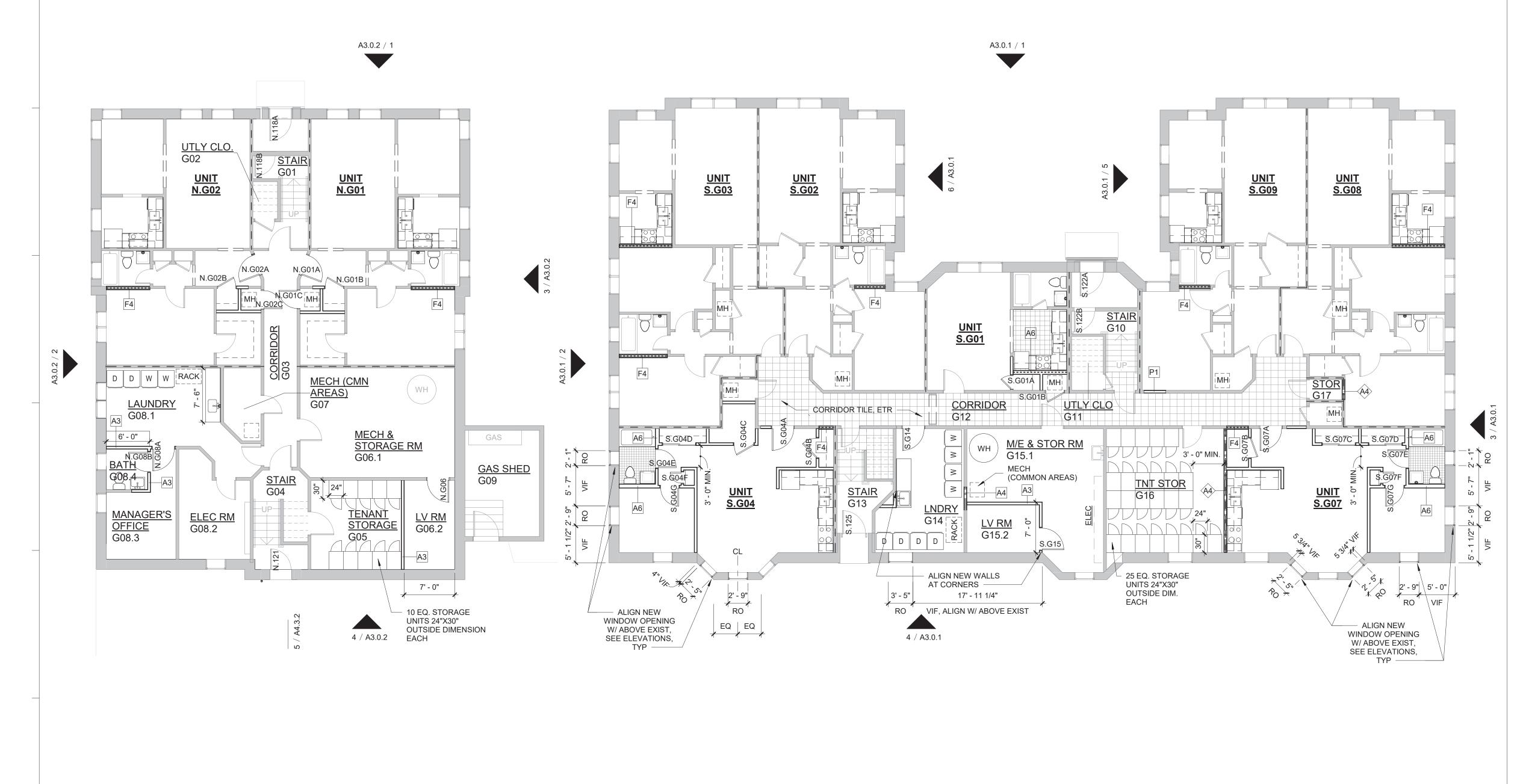
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# 9710 W OUTER DRIVE

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UNIT N.G02	
UNIT S.G01	
UNIT S.G02	
UNIT S.G03	
UNIT S.G04	
UNIT S.G07	
UNIT S.G08	

UNIT S.G09

# 9730 W OUTER DRIVE

5

# CHEDULE

10A/A6.0.4

SIM 10A/A6.0.4

1A/A6.0.1

2A/A6.0.1

3A/A6.0.2

G4A/A6.0.5

G7A/A6.0.5

SIM 3A/A6.0.2 SIM 2A/A6.0.1

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NEW PARTITION WALL
EXISTING PARTITION
SMOKE PARTITION
1 HOUR RATED WALL
HISTORIC ARCHES TO REMAIN
UNIT DIVISIONS
CONSTRUCT/FURR OUT WALL TO HOUSE EXHAUST DUCT RISER (SEE MECH)
NEW MECHANICAL CLOSET, SEE MECHANICAL DRAWINGS

# **GENERAL FLOOR PLAN NOTES**

FLOOR PLAN LEGEND

ARCH ELEV 0'-0" = EXISTING ENTRY LEVEL ELEV

CONTRACTOR TO COORDINATE WITH ARCHITECT ALL DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS PRIOR TO ANY WORK OR INSTALLATION

- ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN 3 CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UNO
- TYPICAL NEW DOOR FRAME TO WALL DIMENSION IS 4" UON. 4. NEW WALLS ARE TYPE A3 UON. REFER TO SHEET A7.3.1 FOR 5. PARTITION TYPES
- REFER TO SHEET A7.4.1 FOR CABINETRY AND COUNTERTOP 6. DETAILS
- REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS 7. FOR EQUIPMENT PAD LOCATIONS.
- NEW CONSTRUCTION WALLS TO BE FLUSH WITH EXISTING 8. WHERE INDICATED.
- 9. PROVIDE GLASSMAT BACKER AT ALL NEW TOILET ROOM TILE WALLS.
- 10. INFILL ALL UNUSED FLOOR/WALL PENETRATIONS TO MATCH ADJACENT SURFACE, INCLUDING OBSOLETE MILK DELIVERY NICHES
- 11. REPAIR/REPLACE IN KIND ALL WATER DAMAGED AREAS, INCLUDING PLASTER WALLS AND CEILINGS, VIF
- COORDINATE MECHANICAL DIFFUSER LOCATIONS WITH 12. CABINETRY.
- 13. INSTALL FURRING AND DRYWALL AT ALL UNFINISHED GARDEN LEVEL WALLS AND WINDOW OPENINGS TO REMAIN IN NEW UNITS, RESIDENT STORAGE, AND LAUNDRY.
- 14. INSTALL PLYWOOD SHEATHING AT LOW VOLTAGE ROOMS ON WALL(S) WHERE EQUIPMENT WILL BE MOUNTED

# Grandmont Rosedale Park Collective II

9710 - 9730 W Outer Dr. Detroit, MI 48223



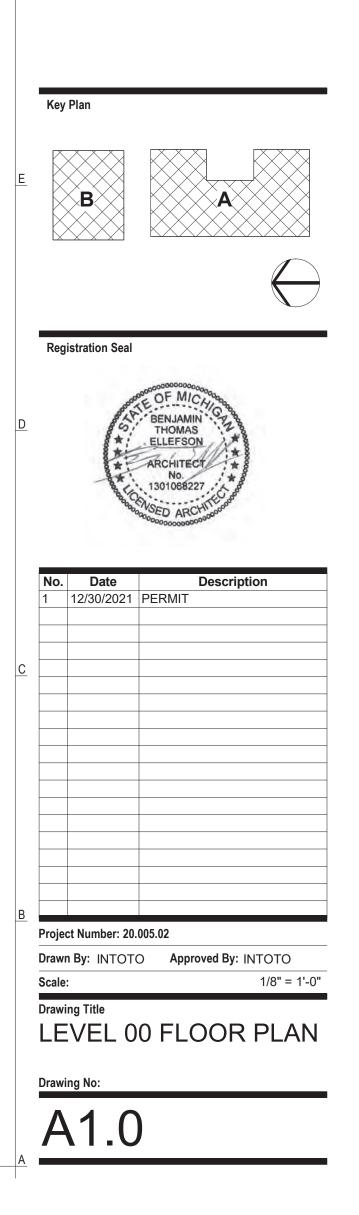
OWNER GRPC 4 Limited Dividend Housing Association Limited Partnership, a Michigan limited partnership 19800 Grand River Detroit, MI 48223 313-387-4732 phone 313-387-5158 fax www.grandmontrosedale.com

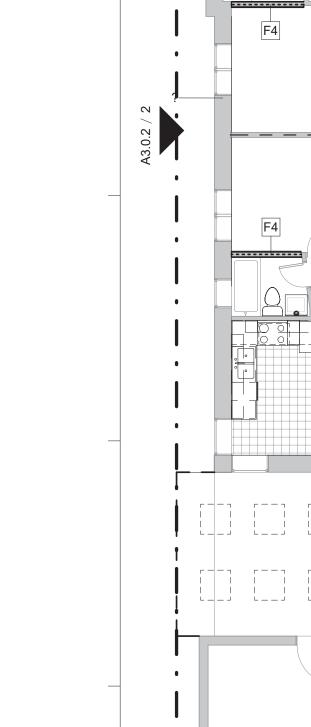
ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com

**CIVIL ENGINEERING** PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com

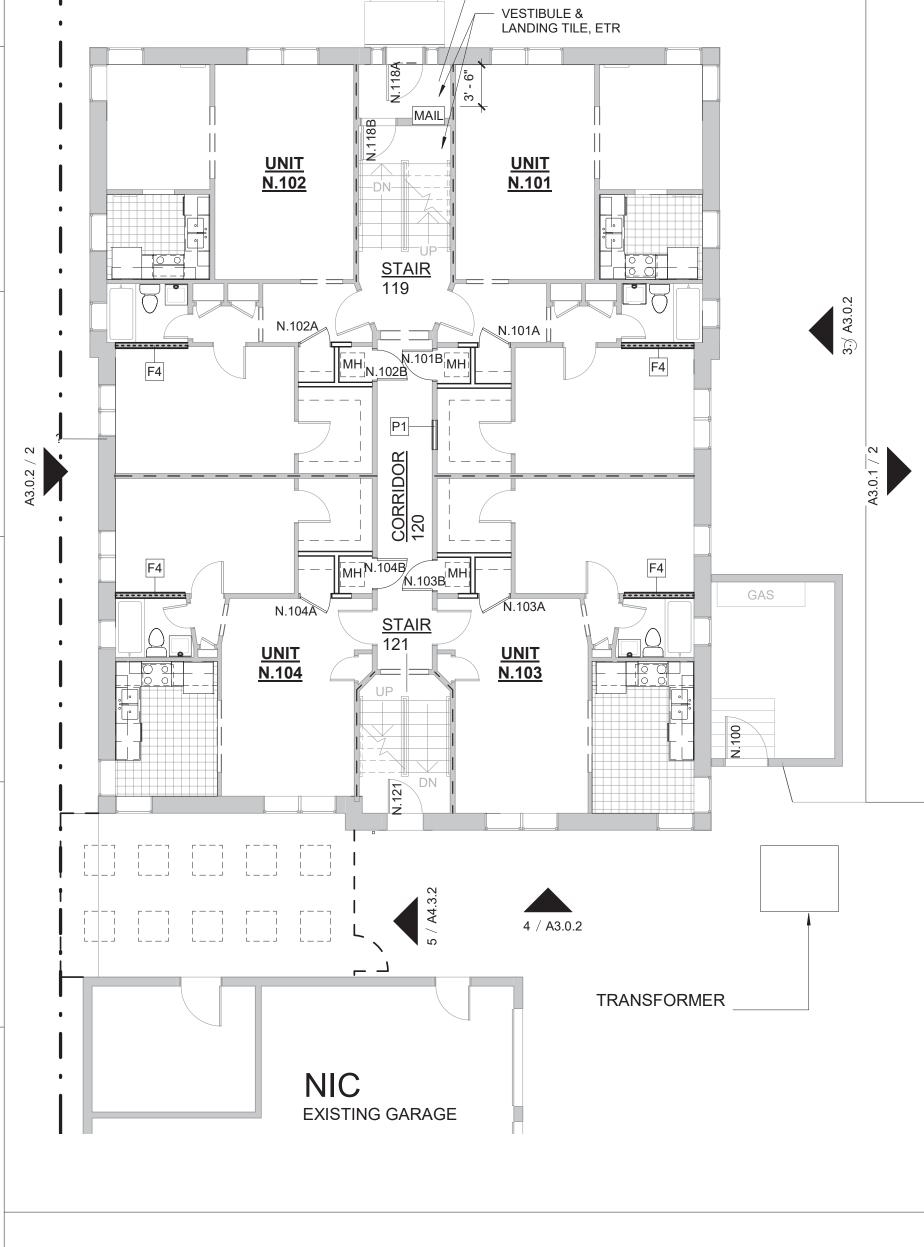
MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com

STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com





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# 9730 W OUTER DRIVE

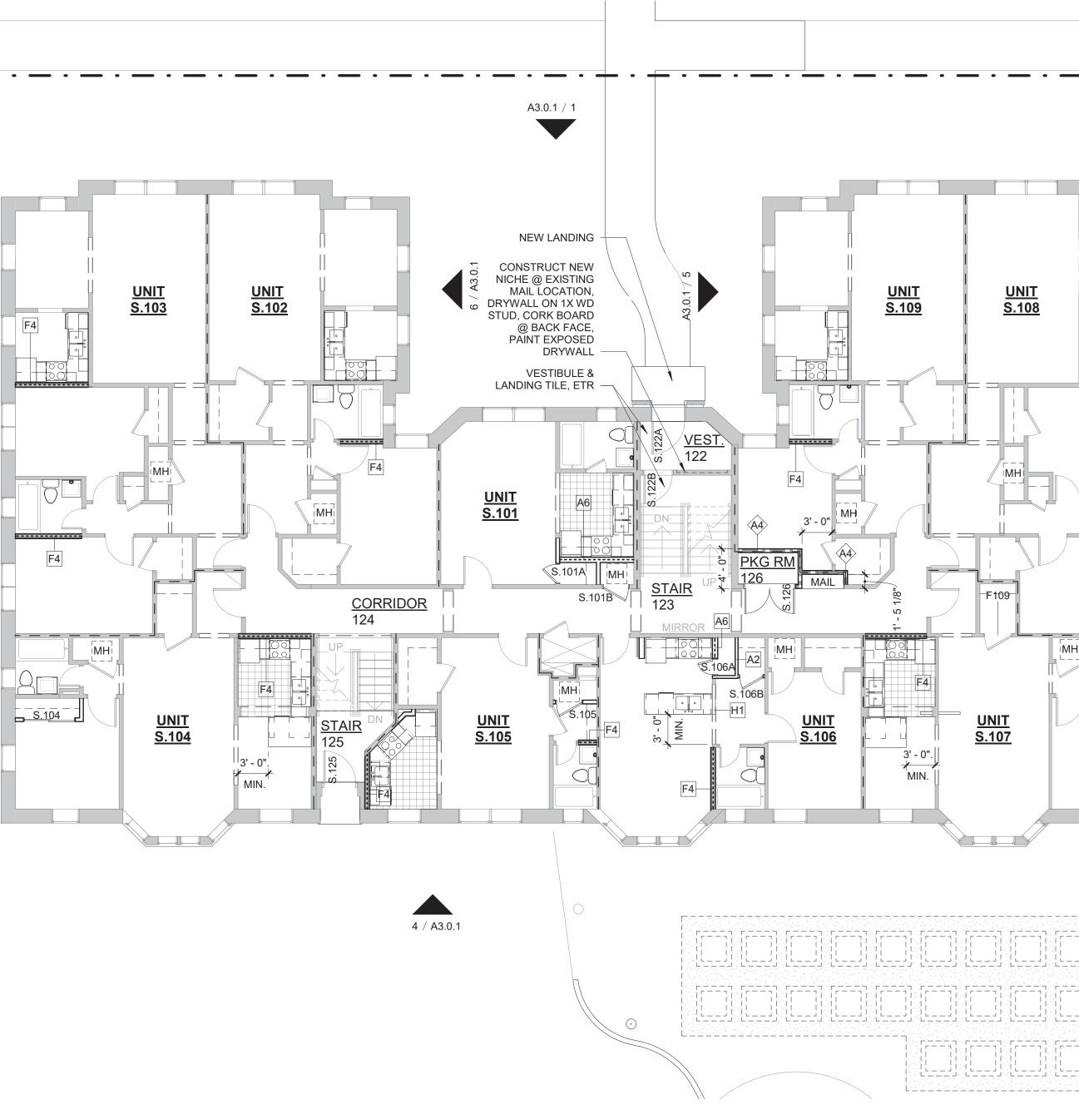
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			FLOOR PLAN LEGEND		Grandmont Rosedal Park Collective II
	PLAN SCHEDULE			NEW PARTITION WALL	
UNIT N.101 10A/A6.0.4	UNIT S.104	4A/A6.0.2		SMOKE PARTITION	
UNIT N.102 SIM 10A/A6.0.4	UNIT S.105	5A/A6.0.3		1 HOUR RATED WALL HISTORIC ARCHES TO REMAIN	9710 - 9730 W Outer
UNIT N.103 13A/A6.0.4	UNIT S.106	6A/A6.0.3		UNIT DIVISIONS	Dr. Detroit, MI 48223
UNIT N.104 SIM 13A/A6.0.4	UNIT S.107	SIM 4A/A6.0.2		CONSTRUCT/FURR OUT WALL TO HOUSE EXHAUST DUCT RISER (SEE MECH)	INTOTO
UNIT S.101 1A/A6.0.1	UNIT S.108	SIM 3A/A6.0.2	МН	NEW MECHANICAL CLOSET, SEE MECHANICAL DRAWINGS	
UNIT S.102 2A/A6.0.1	UNIT S.109	SIM 2A/A6.0.1			210DI0
UNIT S.102 UNIT S.103 34/46.0.2 34/46.0.2			GENERAL FLOOR PLAN         1. ARCH ELEV 0'-0" = EXISTING         2. CONTRACTOR TO COORDIN, DISCREPANCIES BETWEEN CONDITIONS PRIOR TO ANY         3. ALL DIMENSIONS ARE TO FACE OF CONSUNO         4. TYPICAL NEW DOOR FRAME         5. NEW WALLS ARE TYPE A3 UP PARTITION TYPES         6. REFER TO SHEET AZ.4.1 FOR DETAILS         7. REFER TO MECHANICAL, ELE FOR EQUIPMENT PAD LOCA         8. NEW CONSTRUCTION WALLS WHERE INDICATED.         9. PROVIDE GLASSMAT BACKE WALLS.         10. INFILL ALL UNUSED FLOORN ADJACENT SURFACE, INCLU NICHES         11. REPAIR/REPLACE IN KIND ALL INCLUDING PLASTER WALLS         12. COORDINATE MECHANICAL INCLUDING PLASTER WALLS         13. INSTALL FURRING AND DRYLLEVEL WALLS AND WINDOW UNITS, RESIDENT STORAGE,         14. INSTALL PLYWOOD SHEATH WALL(S) WHERE EQUIPMENT	SEE MECHANICAL DRAWINGS  N NOTES ENTRY LEVEL ELEV ATE WITH ARCHITECT ALL THE DRAWINGS AND EXISTING WORK OR INSTALLATION CE OF GYPSUM BOARD, COLUMN CRETE, AND OR FACE OF MASONRY TO WALL DIMENSION IS 4" UON. ON. REFER TO SHEET <u>A7.3.1</u> FOR CABINETRY AND COUNTERTOP ECTRICAL AND PLUMBING PLANS TIONS. S TO BE FLUSH WITH EXISTING R AT ALL NEW TOILET ROOM TILE NALL PENETRATIONS TO MATCH DING OBSOLETE MILK DELIVERY L WATER DAMAGED AREAS, AND CEILINGS, VIF DIFFUSER LOCATIONS WITH WALL AT ALL UNFINISHED GARDEN OPENINGS TO REMAIN IN NEW, AND LAUNDRY. ING AT LOW VOLTAGE ROOMS ON	STUDDO         STUDDO         OWNER         GRPC 4 Limited Dividend Housing Association         Limited Partnership, Michigan limited partnership, 19900 Grant River         Situasi's dividend Housing Association         ARCHTECT         Not colspan="2">Michigan limited partnership         Situasi's dividend Housing Association         ARCHTECK         Not colspan="2">Situasi's dividend Housing Association         ARCHTECK         ARCHTECK         ARCHTERING         Not colspan="2">Colspan="2"         Colspan=



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# FLOOR PLAN LEGEND



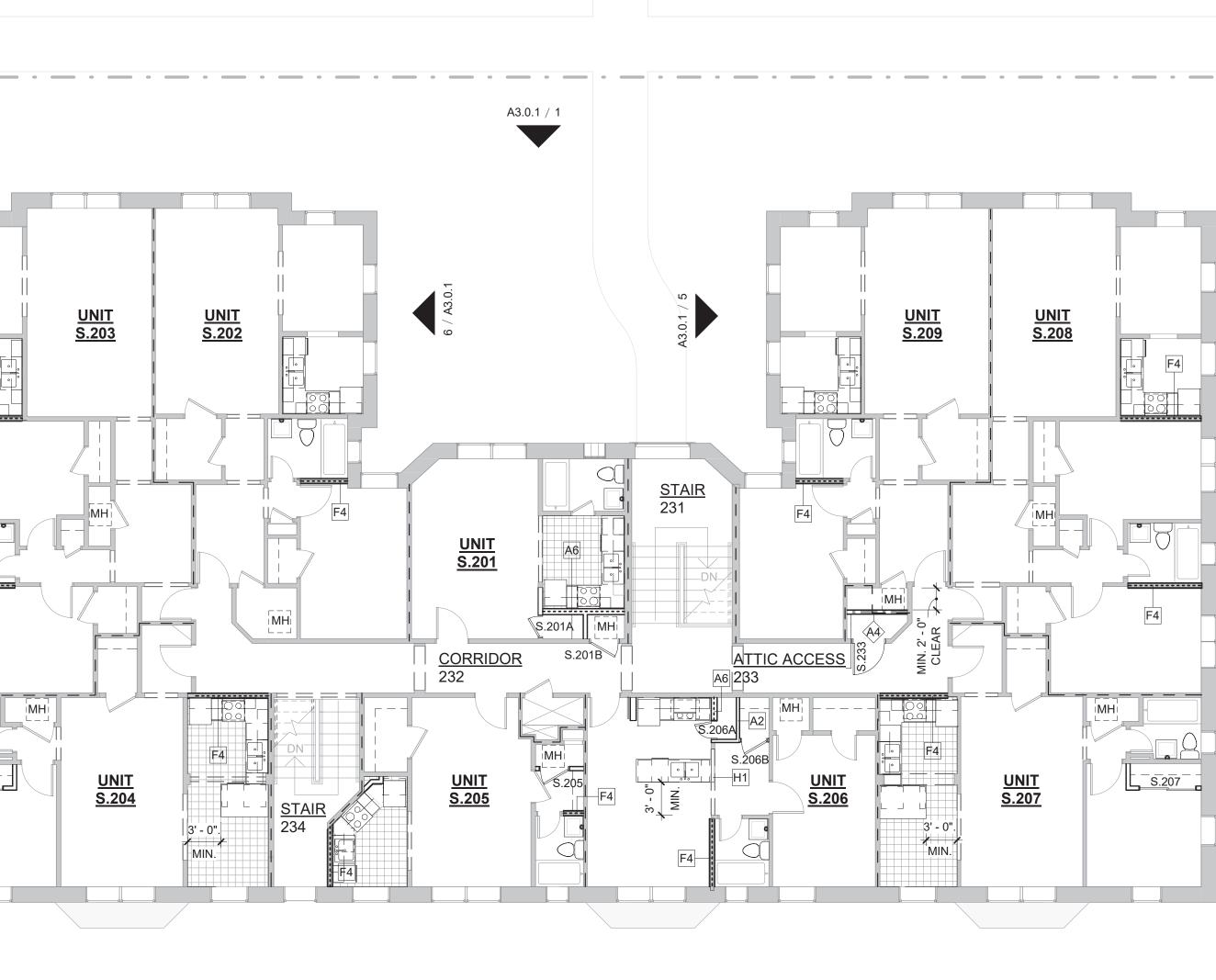


A3.0.2 / 1

# 9710 W OUTER DRIVE

# 9730 W OUTER DRIVE

ENLARGED PLAN SCHEDULE				
UNIT N.201	10A/A6.0.4	UNIT S.204		
UNIT N.202	SIM 10A/A6.0.4	UNIT S.205		
UNIT N.203	13A/A6.0.4	UNIT S.206		
UNIT N.204	SIM 13A/A6.0.4	UNIT S.207		
UNIT S.201	1A/A6.0.1	UNIT S.208		
UNIT S.202	2A/A6.0.1	UNIT S.209		
UNIT S.203	3A/A6.0.2			



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4 / A3.0.1

## FLOOR PLAN LEGEND

			NEW PARTITION WALL
4A/A6.0.2			EXISTING PARTITION
			SMOKE PARTITION
5A/A6.0.3			1 HOUR RATED WALL
			HISTORIC ARCHES TO REMAIN
6A/A6.0.3			UNIT DIVISIONS
SIM 4A/A6.0.2			CONSTRUCT/FURR OUT WALL TO HOUSE EXHAUST DUCT RISER (SEE MECH)
SIM 3A/A6.0.2		MH	NEW MECHANICAL CLOSET, SEE MECHANICAL DRAWINGS
SIM 2A/A6.0.1			
	GE	NERAL FLOOR PL	AN NOTES
	1.	ARCH ELEV 0'-0" = EXISTIN	G ENTRY LEVEL ELEV
	2.	DISCREPANCIES BETWEE	INATE WITH ARCHITECT ALL N THE DRAWINGS AND EXISTING IY WORK OR INSTALLATION

- 3. ALL DIMENSIONS ARE TO FACE OF GYPSUM BOARD, COLUMN CENTERLINE, FACE OF CONCRETE, AND OR FACE OF MASONRY UNO
- 4. TYPICAL NEW DOOR FRAME TO WALL DIMENSION IS 4" UON.
- NEW WALLS ARE TYPE A3 UON. REFER TO SHEET <u>A7.3.1</u> FOR PARTITION TYPES
   REFER TO SHEET A7.4.1 FOR CABINETRY AND COUNTERTOP
- REFER TO SHEET <u>A7.4.1</u> FOR CABINETRY AND COUNTERTOP DETAILS
   REFER TO MECHANICAL, ELECTRICAL AND PLUMBING PLANS
- FOR EQUIPMENT PAD LOCATIONS.8. NEW CONSTRUCTION WALLS TO BE FLUSH WITH EXISTING
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# Grandmont Rosedale Park Collective II





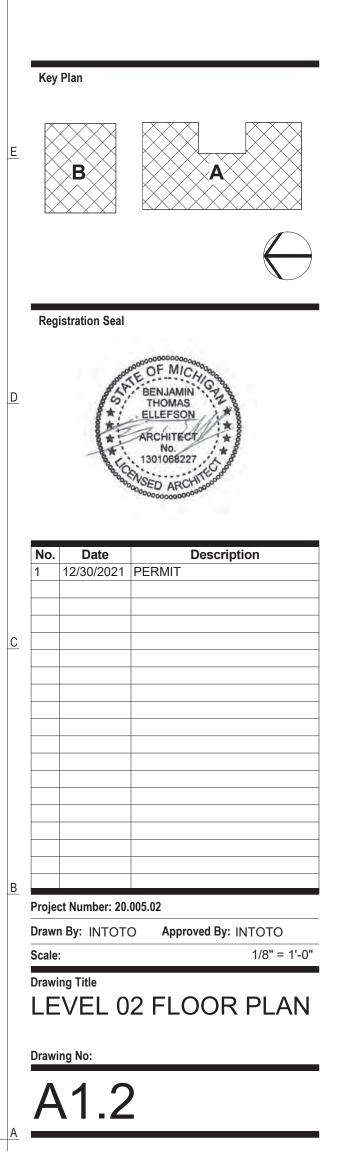
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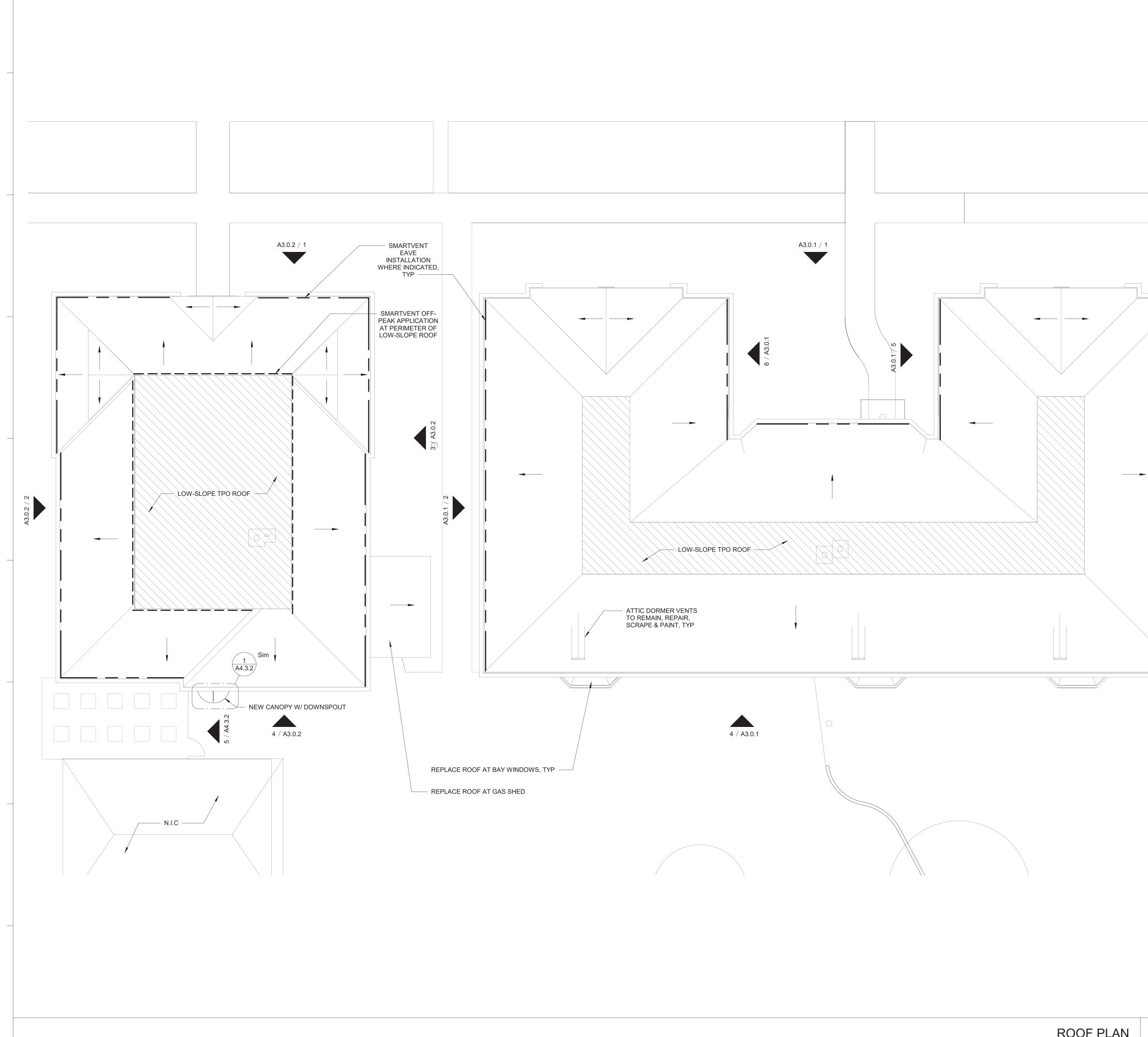
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# ROOF NOTES

- REPLACE ALL EXISTING ROOFING. ROOF REPLACEMENT SCOPE INCLUDES BOTH BUILDINGS (SHINGLE ROOFS AND LOW-SLOPE ROOFS), ROOFS AT BAY WINDOWS, AND PITCHED ROOF AT SINGLE STORY GAS SHED. 9710 ROOF +/- 3380 SF; 9730 ROOF +/- 6750 SF
- REMOVE EXISTING ROOF SHINGLES, ROOF MEMBRANE, AND DAMAGED OR ROTTING ROOF DECK.
- INSTALL ROOFING AND UNDERLAYMENTS ACCORDING TO MANUFACTURER'S STANDARDS INCLUDING NEW PLYWOOD SHEATHING TO MATCH EXISTING THICKNESS, ICE AND WATER SHIELD EXTENDING FROM GUTTER/ROOF EDGE TO AT LEAST 3' BEYOND THE INTERIOR WALL AND AT VALLEYS, ASPHALT ROOF SHINGLES OVER #30 ROOFING FELT, AND CONTINUOUS RIDGE VENTS AT TOP RIDGES AND HIP RIDGES.
- BASIS OF DESIGN PRODUCTS: OWENS CORNING OAKRIDGE 4. SHINGLES - COLOR: TBD; SMART RIDGE II BY DCI PRODUCTS; OWENS CORNING WEATHERLOCK FLEX - FLEXIBLE SELF-SEALING ICE AND WATER BARRIER
- INSPECT EXISTING ROOF CONSTRUCTION, INCLUDING 5. TRUSSES, PRIOR TO REPLACEMENT AND NOTIFY ARCHITECT OF ANY WATER DAMAGE TO STRUCTURAL MEMBERS
- REPLACE ANY DAMAGED OR ROTTING WOOD AT ROOF SOFFITS, AND PAINT ALL ROOF SOFFITS .
- LOW-SLOPE ROOFS SLOPE AT 0.5"/12" UNLESS NOTES OTHERWISE.
- REPLACE GUTTERS AND ALL FACIA BOARD, PAINT. EXISTING 8. DOWNSPOUTS TO REMAIN WHERE IN GOOD CONDITION, REPLACE WHERE NEEDED. ALL DOWNSPOUTS TO REMAIN TO BE SCRAPED AND RECIEVE NEW PAINT.
- EXISTING INSULATION AT THE ATTIC FLOOR IS TO BE 9 REPLACED WITH MINIMUM CODE REQUIRED INSULATION VALUE.
- 10. SALVAGE AND PROTECT EXISTING ROOF VENTS WHILE REROOFING.
- PROVIDE DRAFTSTOPPING AT ATTIC (COMBUSTIBLE 11. CONCEALED SPACE PER MBC SECTION 718). CONTINUOUS FIRE RATED PLYWOOD AND/ OR FIRE RATED 2X FOR DRAFTSTOPPING AT TOPS OF WALLS AT ANY OPENINGS AT ATTIC TO PREVENT MOVEMENT OF SMOKE FROM LOWER LEVELS INTO ATTIC. CONTRACTOR TO VERFIY REQUIRED LOCATIONS FOR DRAFTSTOPPING IN FIELD (RE: MECH)

# Grandmont Rosedale Park Collective II

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www.peagroup.com MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009

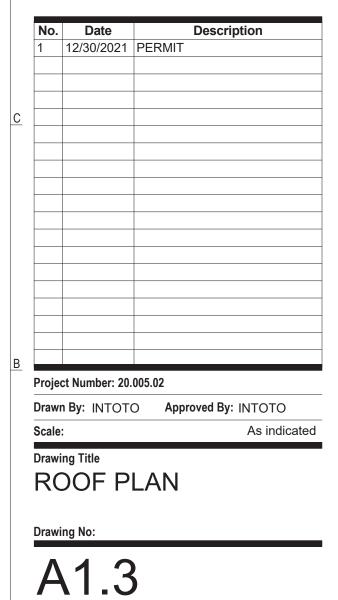
248-258-1610 phone www.ma-engineering.com

STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201 313-315-3290 phone www.resurget-engineering.com

Key Plan		
B	A	

**Registration Seal** 









### ENLARGED RCP SCHEDULE

UNIT N.G01	
UNIT N.G02	
UNIT S.G01	
UNIT S.G02	
UNIT S.G03	
UNIT S.G04	
UNIT S.G07	
UNIT S.G08	
UNIT S.G09	

5

- 10B/A6.0.4
- SIM 10B/A6.0.4
- 1B/A6.0.1
- 2B/A6.0.1
- 3B/A6.0.2
- G4B/A6.0.5
- G7B/A6.0.5
- SIM 3B/A6.0.2
- SIM 2B/A6.0.1

# EXISTING PLASTER CEILING NEW GYP. BOARD CEILING; AFF: 7'-0" UNO EXISTING CEILING COVES TO REMAIN UPPER CABINETS FOR REFERENCE \_ \_ \_ — — — UNIT DIVISIONS LINEAR SUSPENDED LIGHT LINEAR UNDERCABINET LIGHT ○ SURFACE MOUNTED LIGHT O DECORATIVE LIGHT EXISTING SURFACE MOUNTED LIGHT © EXISTING DECORATIVE LIGHT CEILING FAN WITH LIGHT (SD) CEILING MOUNTED SMOKE DETECTOR, RE: EL FC CEILING MOUNTED DUPLEX RECEPTACLE, RE: ELEC CEILING MOUNTED TELECOM, RE: ELEC EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE) EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE) $\bigotimes$ EXIT LIGHTING (SHADED AREA INDICATES FACE) RETURN DIFFUSER ☑ EXHAUST REGISTER MH MECHANICAL CLOSET **CEILING PLAN GENERAL NOTES** REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS

CEILING PLAN LEGEND

- REFER TO MECHANICAL AND ELECTRICAL GENERAL 2. INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
- REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD 4. CEILING WITH ARCHITECT PRIOR TO INSTALLATION
- PROVIDE BLOCKING IN CEILING AS REQUIRED FOR DISPLAY FIXTURES, DECORATIVE LIGHT FIXTURES, CEILING HUNG EQUIPMENT, ETC.
- CENTER ALL SMOKE DETECTORS WHEN LOCATED IN EXISTING 6. PLASTER OR NEW GYP BD CORRIDOR CEILING REPAIR/REPLACE IN KIND ALL WATER DAMAGED AREAS, 7.
- INCLUDING PLASTER WALLS AND CEILINGS, VIF EXISTING CEILINGS: PATCH AND REPAIR EXISTING CEILING TO 8. MATCH ADJACENT EXISTING CONSTRUCTION AT COMPLETION OF OVERHEAD PLUMBING AND MECHANICAL WORK.
- (SEE MECHANICAL DRAWINGS) 9. 10. CEILING HEIGHTS ARE EXISTING, NEW SOFFITS & NEW BATHROOM, CLOSET, & UNIT HALLWAY CEILINGS ARE [7'-0"] AFF UNLESS OTHERWISE NOTED
- NEW SOFFITS ARE [2'- 0"] IN WIDTH UNLESS OTHERWISE NOTED 11.
- ALL EXISTING PLASTER CEILINGS, NEW CEILINGS, AND NEW 12. GYPSUM BOARD SOFFITS TO TO RECEIVE PAINT [PT-1] ON HORIZONTAL AND VERTICAL SURFACE UNLESS OTHERWISE NOTED
- 13. NEW AUTOMATIC SPRINKLER SYSTEM THROUGHOUT BOTH BUILDINGS. REF: MECHANICAL SPECIFICATIONS FOR FIRE PROTECTION SYSTEM AND LOCATIONS. DOMED SPRINKLER HEAD COVERS TO MATCH SURFACE ON WHICH THEY LAY -COORDINATE WITH FIRE PROTECTION/ MECHANICAL
- ANY DIFFUSERS LOCATED IN CEILINGS & WALLS TO MATCH 14. COLOR OF THE SURFACE ON WHICH THEY LAY, SEE MECH DRAWINGS FOR DIFFUSERS



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Project Number: 20.005.02

**CEILING PLAN** 

Scale

Drawing Title

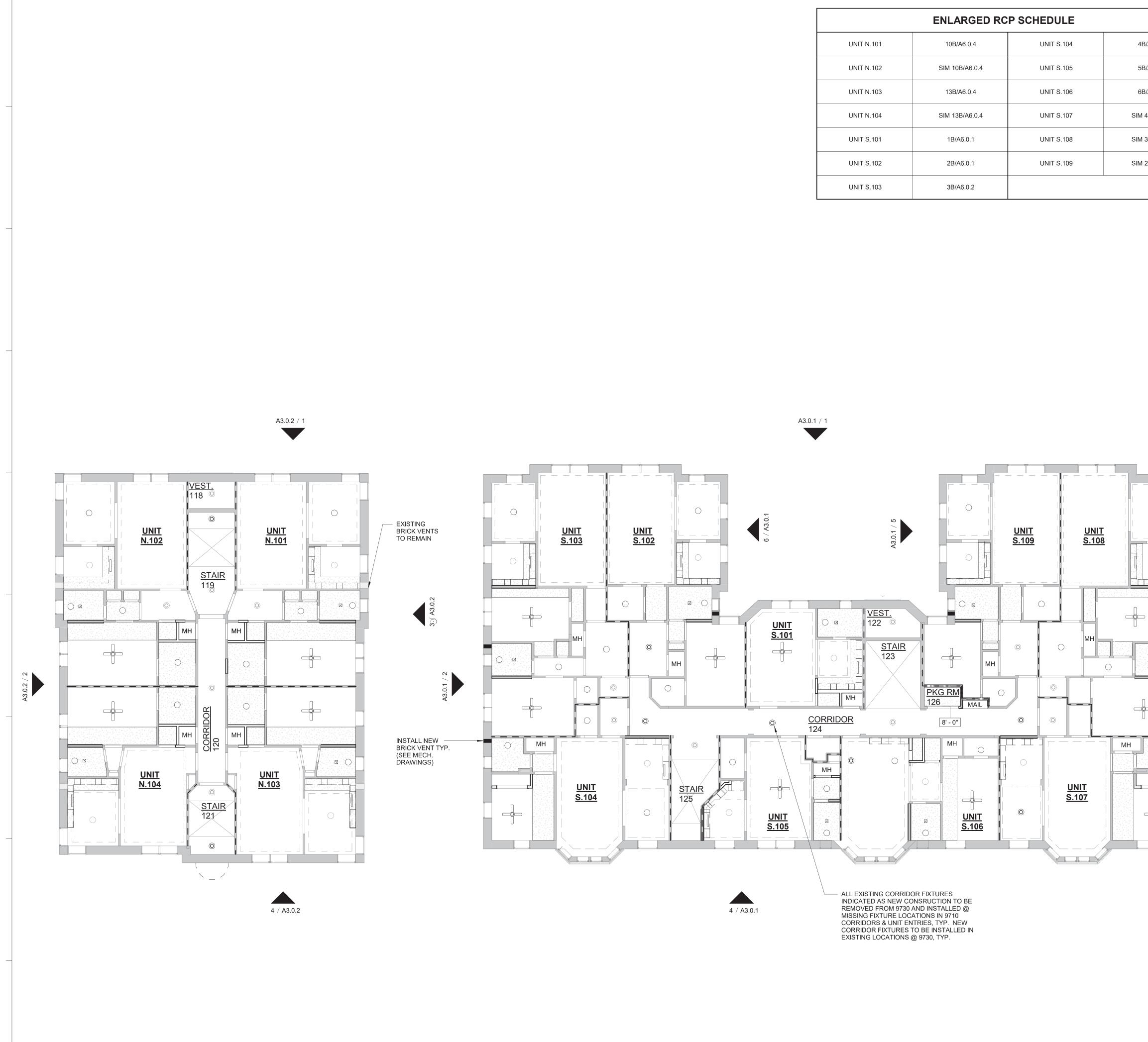
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Drawn By: INTOTO Approved By: INTOTO

LEVEL 00 REFLECTED

1/8" = 1'-0"





	ENLARGED RCP SCHEDULE		
UNIT N.101	10B/A6.0.4	UNIT S.104	
UNIT N.102	SIM 10B/A6.0.4	UNIT S.105	
UNIT N.103	13B/A6.0.4	UNIT S.106	
UNIT N.104	SIM 13B/A6.0.4	UNIT S.107	
UNIT S.101	1B/A6.0.1	UNIT S.108	
UNIT S.102	2B/A6.0.1	UNIT S.109	
UNIT S.103	3B/A6.0.2		

4

# CEILING PLAN LEGEND

EXISTING PLASTER CEILING

### 4B/A6.0.2

5B/A6.0.3

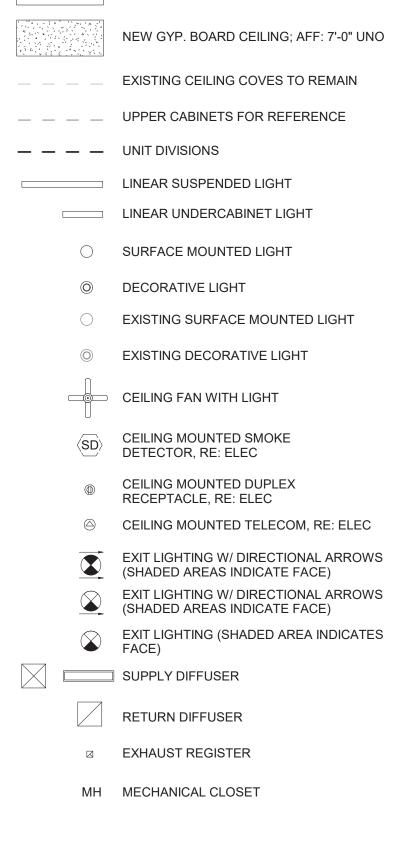
- 6B/A6.0.3
- SIM 4B/A6.0.2
- SIM 3B/A6.0.2
- SIM 2B/A6.0.1

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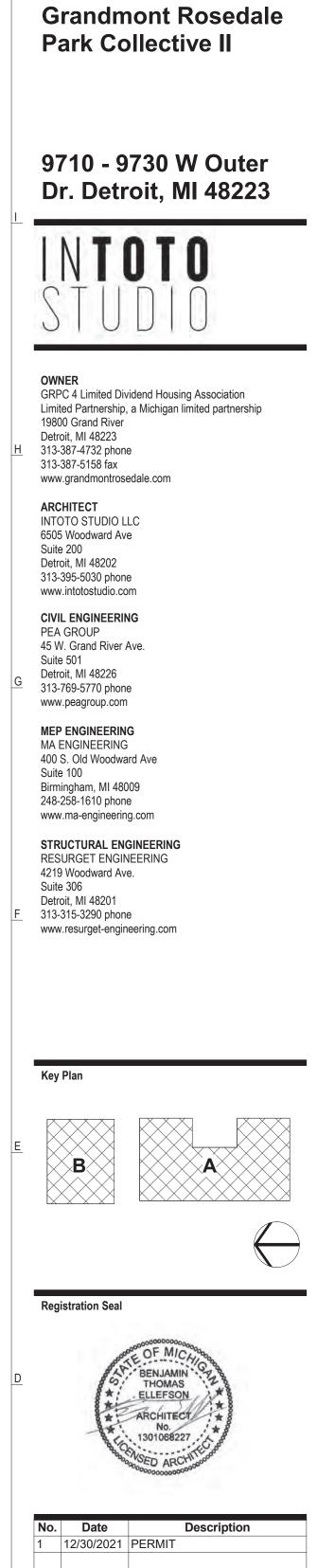
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# **CEILING PLAN GENERAL NOTES**

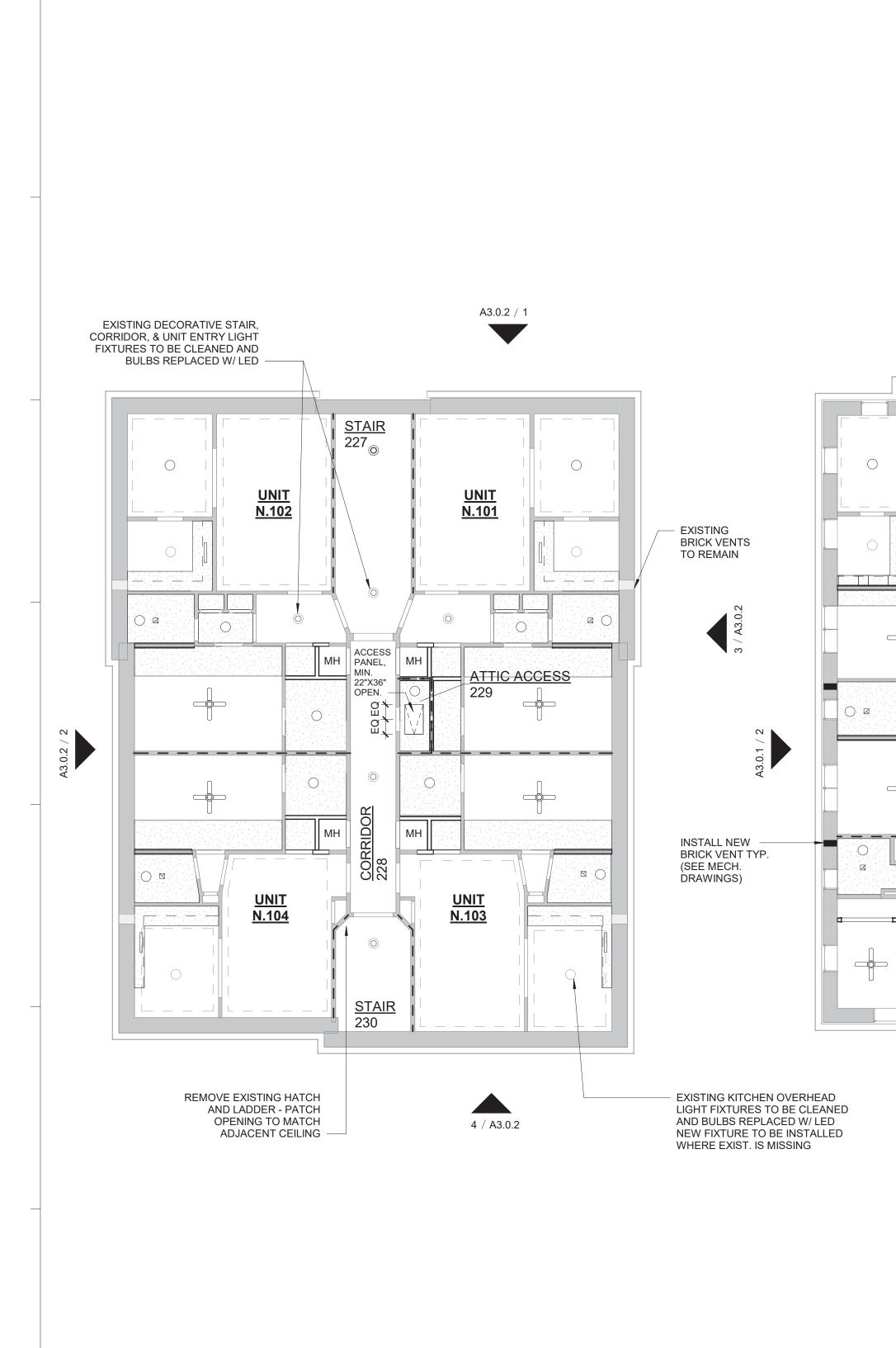
- REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
- REFER TO MECHANICAL AND ELECTRICAL GENERAL 2 INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
- REFER TO FLOOR PLANS FOR PARTITION TYPE DESIGNATIONS COORDINATE LOCATION OF ALL ELEMENTS WITHIN HARD 4.
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- CENTER ALL SMOKE DETECTORS WHEN LOCATED IN EXISTING 6. PLASTER OR NEW GYP BD CORRIDOR CEILING
- REPAIR/REPLACE IN KIND ALL WATER DAMAGED AREAS, 7. INCLUDING PLASTER WALLS AND CEILINGS, VIF
- EXISTING CEILINGS: PATCH AND REPAIR EXISTING CEILING TO 8. MATCH ADJACENT EXISTING CONSTRUCTION AT COMPLETION OF OVERHEAD PLUMBING AND MECHANICAL WORK. 9. (SEE MECHANICAL DRAWINGS)
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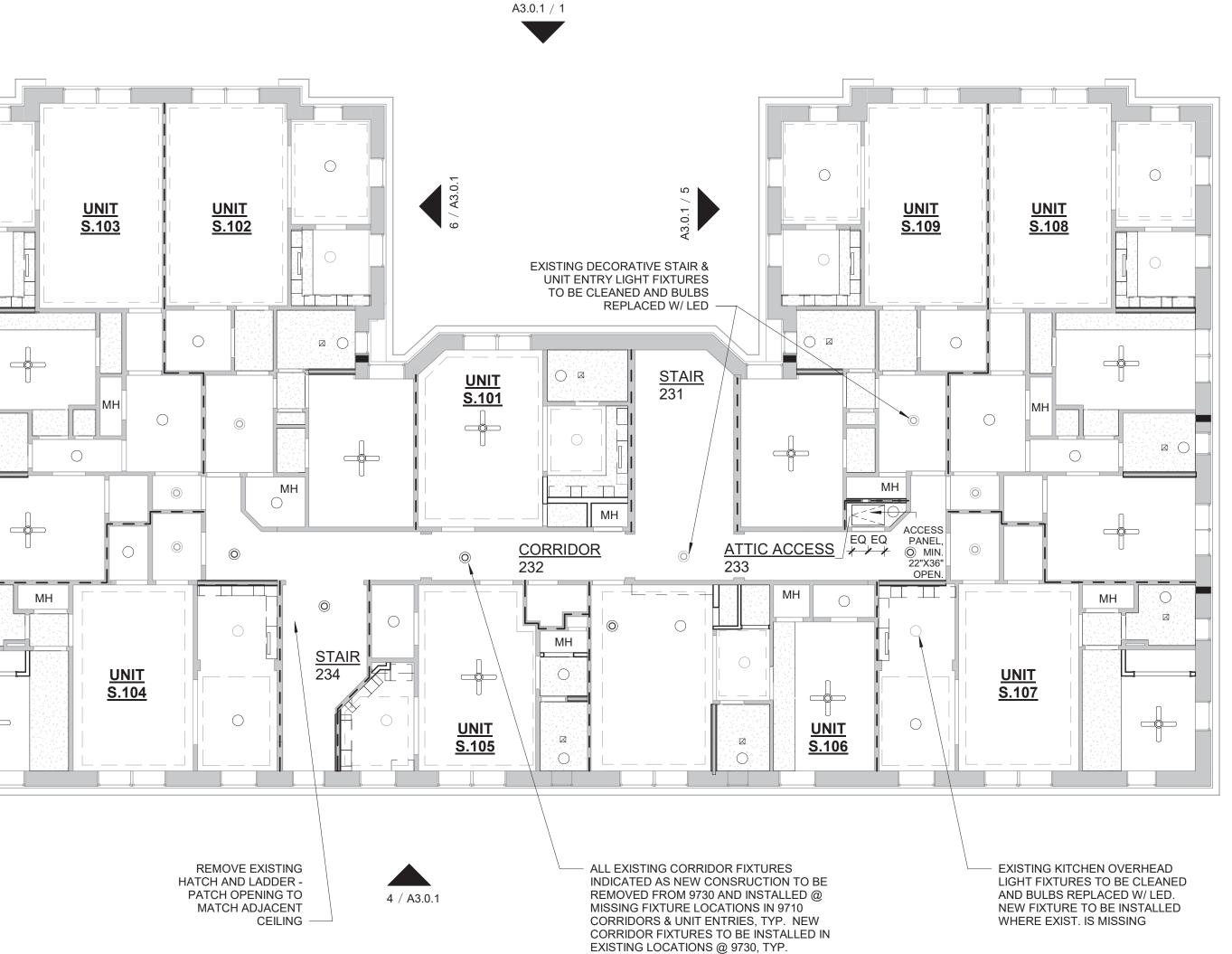
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	1	12/30/2021	PERMIT	
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<b>–</b>	Project Number: 20.005.02			
	Drawn By: INTOTO Approved By: INTOTO			
	Scale	-	1/8" = 1'-0"	
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	Drawing Title			
	LEVEL 01 REFLECTED			
	CEILING PLAN			
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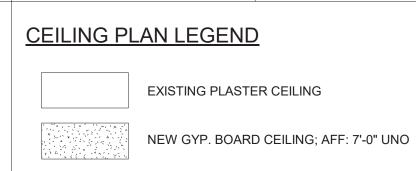
11



ENLARGED PLAN SCHEDULE				
10B/A6.0.4	UNIT S.204			
SIM 10B/A6.0.4	UNIT S.205			
13B/A6.0.4	UNIT S.206			
SIM 13B/A6.0.4	UNIT S.207			
1B/A6.0.1	UNIT S.208			
2B/A6.0.1	UNIT S.209			
3B/A6.0.2				
	10B/A6.0.4 SIM 10B/A6.0.4 13B/A6.0.4 SIM 13B/A6.0.4 1B/A6.0.1 2B/A6.0.1			



4



4B/A6.0.2

5B/A6.0.3

6B/A6.0.3

SIM 4B/A6.0.2

SIM 3B/A6.0.2

SIM 2B/A6.0.1

EXISTING CEILING COVES TO REMAIN

UPPER CABINETS FOR REFERENCE \_\_\_\_\_

— — — UNIT DIVISIONS

LINEAR SUSPENDED LIGHT LINEAR UNDERCABINET LIGHT

○ SURFACE MOUNTED LIGHT

O DECORATIVE LIGHT

EXISTING SURFACE MOUNTED LIGHT

EXISTING DECORATIVE LIGHT

CEILING FAN WITH LIGHT

SD CEILING MOUNTED SMOKE DETECTOR, RE: ELEC

CEILING MOUNTED DUPLEX RECEPTACLE, RE: ELEC

CEILING MOUNTED TELECOM, RE: ELEC

EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)

EXIT LIGHTING W/ DIRECTIONAL ARROWS (SHADED AREAS INDICATE FACE)

EXIT LIGHTING (SHADED AREA INDICATES FACE)

RETURN DIFFUSER

☑ EXHAUST REGISTER

MH MECHANICAL CLOSET

#### **CEILING PLAN GENERAL NOTES**

- REFER TO ARCHITECTURAL GENERAL INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
- REFER TO MECHANICAL AND ELECTRICAL GENERAL 2. INFORMATION SHEET FOR CEILING SYMBOLS AND ABBREVIATIONS
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- ANY DIFFUSERS LOCATED IN CEILINGS & WALLS TO MATCH 14. COLOR OF THE SURFACE ON WHICH THEY LAY, SEE MECH DRAWINGS FOR DIFFUSERS



Grandmont Rosedale



Date No. Descriptio 12/30/2021 PERMIT Project Number: 20.005.02 Drawn By: INTOTO Approved By: INTOTO 1/8" = 1'-0" Drawing Title LEVEL 02 REFLECTED **CEILING PLAN** Drawing No: A2.2





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	ELEVATION LEGEND	Grandmont Rosedale Park Collective II
	WINDOW TAG - SEE SHEET A4.0.1 FOR WINDOW SCHEDULE	
	<ul> <li>— — — SMARTVENT, EAVE INSTALLATION</li> <li>— — — SMARTVENT, EAVE INSTALLATION</li> </ul>	9710 - 9730 W Outer
	<u>GENERAL NOTES</u>	Dr. Detroit, MI 48223
<u>LEVEL 02</u> 14' - 7"	<ol> <li>SEE WINDOW ELEVATIONS FOR MUTTIN PATTERN - SHEET A4.0.2</li> <li>SEE DEMOLITION NOTES ON AD1 SHEETS</li> <li><u>DOORS:</u> ALL EXISTING EXTERIOR DOORS TO REMAIN AND TO</li> </ol>	INTOTO Studio
	<ul> <li>4. <u>WINDOWS:</u> ALL EXTERIOR STORM WINDOWS TO BE REMOVED.</li> </ul>	OWNER
<u>LEVEL 01</u> 5' - 1"	<ul> <li>REMOVE &amp; REPLACE ALL WINDOWS UNO, SEE A4 SERIES</li> <li>5. WALLS: CLEAN BRICK THROUGHOUT BOTH BUILDING EXTERIORS. REPOINT AND TUCK POINT AT LOCATIONS OF CRUMBLING, CRACKING, AND/OR HOLES IN MORTAR, INCLUDING AT CHIMINEY. NEW MORTAR TO MATCH EXISTING IN STRENGTH, COLOR, &amp; PROFILE.</li> </ul>	<ul> <li>GRPC 4 Limited Dividend Housing Association</li> <li>Limited Partnership, a Michigan limited partnership</li> <li>19800 Grand River</li> <li>Detroit, MI 48223</li> <li><u>H</u> 313-387-4732 phone</li> <li>313-387-5158 fax</li> </ul>
ENTRY LEVEL 0' - 0" 	6. <u>PAINT</u> : ALL EXISTING PAINTED EXTERIOR TRIM, SIDING, ETC. TO RECEIVE NEW PAINT. REPAIR/REPLACE HISTORIC TRIM DETAILS AT FRONT ENTRY OF 9730 AND OTHER LOCATIONS AS REQUIRED	www.grandmontrosedale.com  ARCHITECT INTOTO STUDIO LLC  CEDE Mused Aug
	BEFORE REPAINTING. 7. <u>LIGHTING:</u> FRONT ENTRY LIGHT AT 9730 TO BE REFURBISHED. BUILDING-MOUNTED LIGHTING TO BE REMOVED. ALL OTHER EXTERIOR LIGHTS TO BE REPLACED. REFER TO SITE PLAN FOR SITE LIGHTING AT PARKING LOT.	6505 Woodward Ave Suite 200 Detroit, MI 48202 313-395-5030 phone www.intotostudio.com
<b>J</b> 1/8" = 1' 0" <b>O</b>	8. <u>DOWNSPOUTS AND GUTTERS:</u> EXISTING TO REMAIN, SCRAPE AND PAINT. REPLACE AND PAINT FASCIA BOARD .	CIVIL ENGINEERING PEA GROUP 45 W. Grand River Ave. Suite 501
<b>-</b> 1/8" = 1'-0" 2	9. <u>CANOPIES:</u> EXISTING CANOPY AT 9710 BACK ENTRY TO BE REMOVED AND REPLACED IN KIND; INSTALL NEW DOWNSPOUT AT CANOPY.	G Suite 501 Detroit, MI 48226 313-769-5770 phone www.peagroup.com
	10. <u>BRICK VENTS:</u> INSTALL NEW BRICK VENTS IN EXISTING MASONRY WHERE INDICATED, SEE MECH DRAWINGS. PATCH/REPAIR EXISTING MASONRY AS NEEDED AS NEEDED AFTER INSTALLATION. COLOR OF BRICK VENTS TO MATCH "CLEANED" BRICK COLOR	MEP ENGINEERING MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com
ROOF	MASONRY CLEANING NOTES:         1.       TO DETERMINE THE GENTLEST MEANS NECESSARY	STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave.
<u>ROOF</u>	CONTRACTOR SHALL TEST THE CLEANING METHOD. BEGIN WITH 12" X12" AREAS, EXPAND TO 3'X3' AREAS. ALL TEST PATCH TO WEATHER FOR ONE MONTH.	Suite 306 Detroit, MI 48201 <u>F</u> 313-315-3290 phone www.resurget-engineering.com
<u>LEVEL 02</u> 	2. START WITH LOW PRESSURE WATER (100 PSI OR BELOW). PRESSURE MAY BE INCREASED IF NECESSARY BUT PRESSURE MAY NOT EXCEED 400 PSI.	
	<ol> <li>NON-IONIC DETERGENTS MAY BE USED IF NECESSARY.</li> <li>ABRASIVE CLEANING, INCLUDING POWER WASHING AND</li> </ol>	
L <u>EVEL 01</u>	<ul> <li>WATER BLASTING, IS NOT ALLOWED.</li> <li>5. CLEANING SHALL START AT THE BOTTOM OF THE WALL AND PROCEED TO THE TOP KEEPING ALL SURFACE BELOW THE AREA BEING CLEANED WET.</li> </ul>	Key Plan
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<u>LEVEL 00</u> -4' - 2"		Project Number: 20.005.02           Drawn By:         INTOTO         Approved By:         INTOTO           Scale:         1/8" = 1'-0"
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		A3.0.1



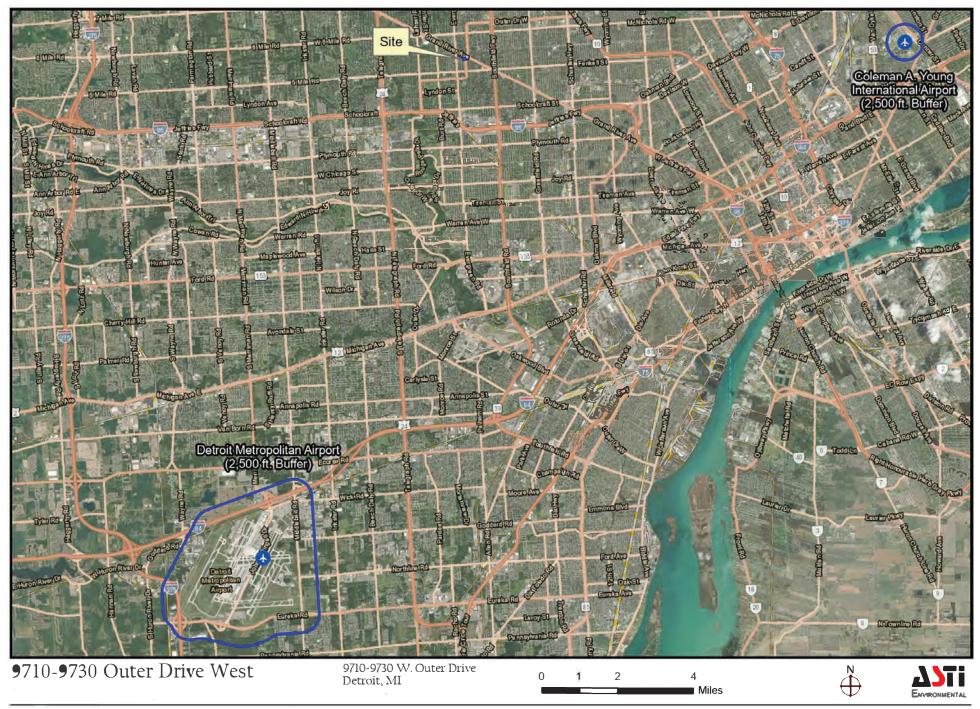


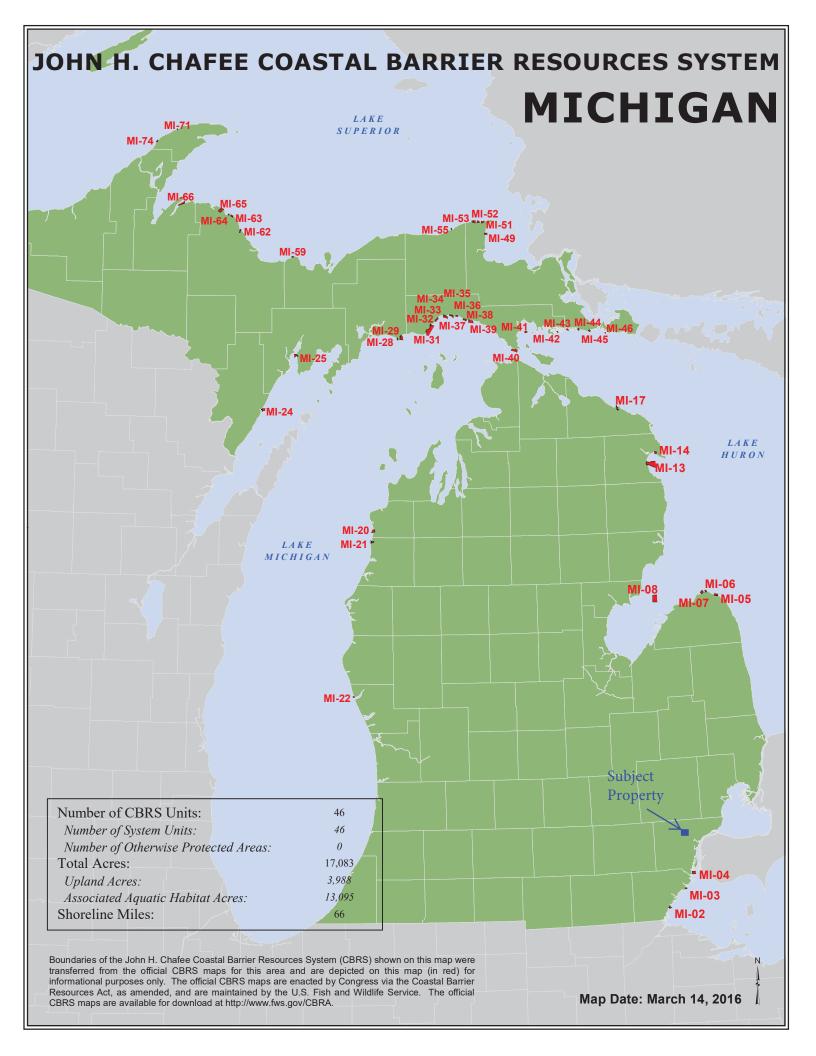
1/8" = 1'-0" 3



## 9710 EAST

		Grandmont Rosedale
	ELEVATION LEGEND	Park Collective II
	WINDOW TAG - SEE SHEET A4.0.1 FOR WINDOW SCHEDULE	
	— — — SMARTVENT, EAVE INSTALLATION     — — — SMARTVENT, EAVE INSTALLATION	
		9710 - 9730 W Outer Dr. Detroit, MI 48223
	1. SEE WINDOW ELEVATIONS FOR MUTTIN PATTERN - SHEET A4.0.2	
	<ol> <li>SEE WINDOW ELEVATIONS FOR MOTTIN PATTERN - SHEET A4.0.2</li> <li>SEE DEMOLITION NOTES ON AD1 SHEETS</li> <li><u>DOORS:</u> ALL EXISTING EXTERIOR DOORS TO REMAIN AND TO RECIEVE NEW PAINT. ALL DOOR HARDWARE TO BE NEW /</li> </ol>	STUDIO
	<ul> <li>REPLACED.</li> <li>4. <u>WINDOWS:</u> ALL EXTERIOR STORM WINDOWS TO BE REMOVED. REMOVE &amp; REPLACE ALL WINDOWS UNO, SEE A4 SERIES</li> </ul>	OWNER
	5. <u>WALLS</u> : CLEAN BRICK THROUGHOUT BOTH BUILDING EXTERIORS. REPOINT AND TUCK POINT AT LOCATIONS OF CRUMBLING, CRACKING, AND/OR HOLES IN MORTAR, INCLUDING AT CHIMINEY. NEW MORTAR TO MATCH EXISTING IN STRENGTH, COLOR, & PROFILE.	GRPC 4 Limited Dividend Housing Association         Limited Partnership, a Michigan limited partnership         19800 Grand River         Detroit, MI 48223         H         313-387-4732 phone         313-387-5158 fax
	6. <u>PAINT</u> : ALL EXISTING PAINTED EXTERIOR TRIM, SIDING, ETC. TO RECEIVE NEW PAINT. REPAIR/REPLACE HISTORIC TRIM DETAILS AT FRONT ENTRY OF 9730 AND OTHER LOCATIONS AS REQUIRED BEFORE REPAINTING.	www.grandmontrosedale.com ARCHITECT INTOTO STUDIO LLC 6505 Woodward Ave Suite 200
	7. <u>LIGHTING:</u> FRONT ENTRY LIGHT AT 9730 TO BE REFURBISHED. BUILDING-MOUNTED LIGHTING TO BE REMOVED. ALL OTHER EXTERIOR LIGHTS TO BE REPLACED. REFER TO SITE PLAN FOR SITE LIGHTING AT PARKING LOT.	Detroit, MI 48202 313-395-5030 phone www.intotostudio.com
	<ol> <li>B. <u>DOWNSPOUTS AND GUTTERS:</u> EXISTING TO REMAIN, SCRAPE AND PAINT. REPLACE AND PAINT FASCIA BOARD .</li> <li>9. CANOPIES: EXISTING CANOPY AT 9710 BACK ENTRY TO BE</li> </ol>	PEA GROUP 45 W. Grand River Ave. Suite 501 Detroit. MI 48226
	<ul> <li>9. <u>CANOPIES:</u> EXISTING CANOPY AT 9710 BACK ENTRY TO BE REMOVED AND REPLACED IN KIND; INSTALL NEW DOWNSPOUT AT CANOPY.</li> <li>10. BRICK VENTS: INSTALL NEW BRICK VENTS IN EXISTING</li> </ul>	G 313-769-5770 phone www.peagroup.com MEP ENGINEERING
	MASONRY WHERE INDICATED, SEE MECH DRAWINGS. PATCH/REPAIR EXISTING MASONRY AS NEEDED AS NEEDED AFTER INSTALLATION. COLOR OF BRICK VENTS TO MATCH "CLEANED" BRICK COLOR	MA ENGINEERING 400 S. Old Woodward Ave Suite 100 Birmingham, MI 48009 248-258-1610 phone www.ma-engineering.com
	<ul> <li>MASONRY CLEANING NOTES:</li> <li>1. TO DETERMINE THE GENTLEST MEANS NECESSARY CONTRACTOR SHALL TEST THE CLEANING METHOD. BEGIN WITH 12" X12" AREAS, EXPAND TO 3'X3' AREAS. ALL TEST</li> </ul>	STRUCTURAL ENGINEERING RESURGET ENGINEERING 4219 Woodward Ave. Suite 306 Detroit, MI 48201
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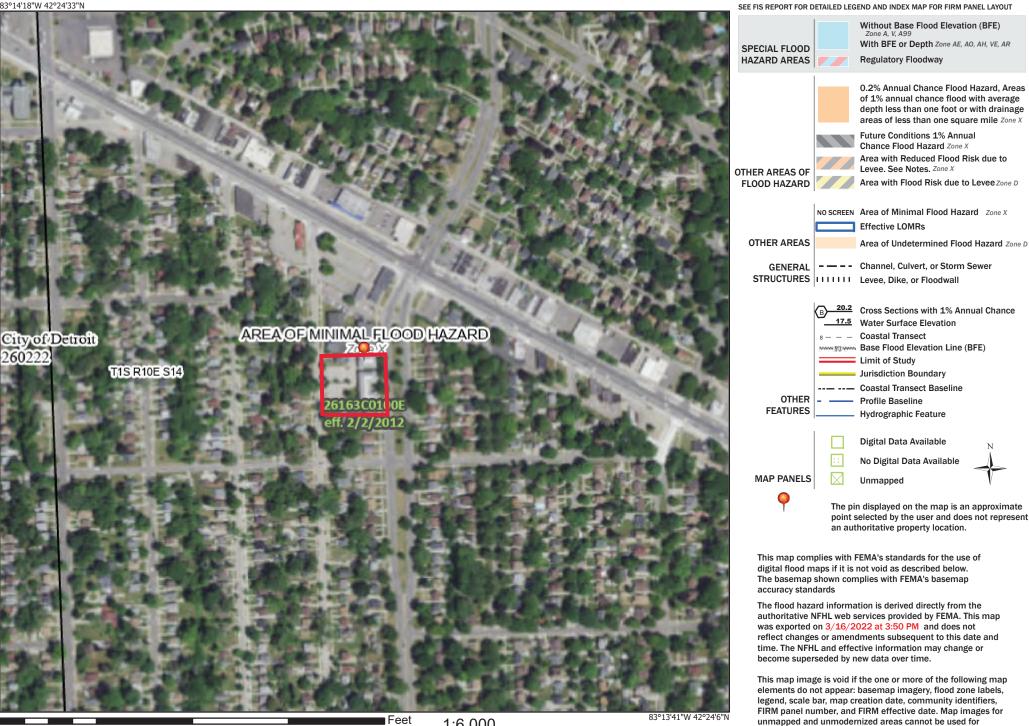




## National Flood Hazard Layer FIRMette



#### Legend



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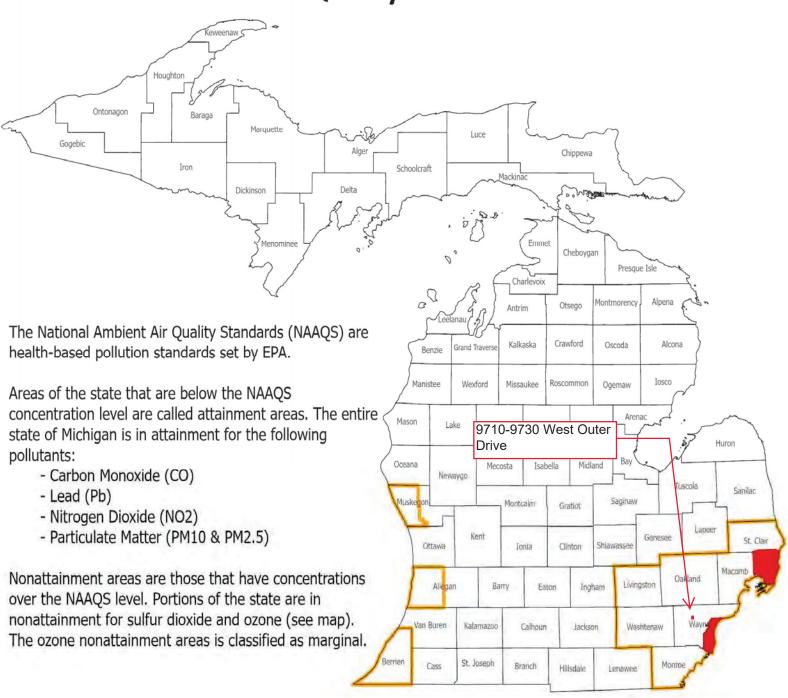
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1:6,000 2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

regulatory purposes.

# Attainment Status for the National Ambient Air Quality Standards



### LEGEND

Sulfur Dioxide Nonattainment Area

Ozone Nonattainment Area

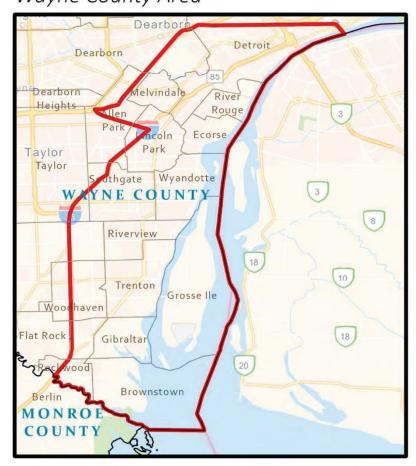
See Page 2 for close-up maps of partial county nonattainment areas.

Updated February 5, 2021

Prepared by EGLE, Air Quality Division, State Implementation Plan Development Unit

## Close-Up Maps of Partial County Nonattainment Areas

Sulfur Dioxide Nonattainment Areas Wayne County Area St. Clair County Area



## **Ozone Nonattainment Areas**

### Allegan County Area



Kenockee nmett Port Huror Huron Wales Kimball cysvil St Clair Columbus Clair Ric mond ST. CLAIR StC COUNTY Richmond China Casco 5 East Schin Marin OM B Ira Cottrellville 40 Clay Igo Wal

#### Muskegon County Area



Prepared by EGLE, Air Quality Division, State Implementation Plan Development Unit



#### STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY



GRETCHEN WHITMER GOVERNOR LANSING

March 23, 2022

Mr. Benjamin Buckley ASTI Environmental 10448 Citation Drive Brighton, Michigan 48116

Via Email Only

Dear Mr. Buckley:

Subject: West Outer Drive Rehabilitation Project, Detroit, MI

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) has reviewed the federal regulations related to general conformity of projects with state implementation plans (SIP) for air quality. In particular, 40 Code of Federal Regulations (CFR) Section 93.150 et seq, which states that any federally funded project in a nonattainment or maintenance area must conform to the Clean Air Act requirements, including the State's SIP if they may constitute a significant new source of air pollution.

On August 3, 2018, Wayne County was designated nonattainment for the 2015 ozone standard; and thus, general conformity must be evaluated when completing construction projects of a given size and scope. EGLE is currently working to complete the required SIP submittal for this area; therefore, an alternative evaluation was completed to assess conformity. Specifically, EGLE considered the following information from the United States Environmental Protection Agency's (USEPA) general conformity guidance, which states, "historical analysis of similar actions can be used in cases where the proposed projects are similar in size and scope to previous projects."

EGLE has reviewed the West Outer Drive Rehabilitation project, proposed to be completed with federal grant monies, including the rehabilitation of the exterior and interior of two existing, vacant, historic apartment buildings. The scope of work includes window replacement, exterior repairs, and interior upgrades, new kitchens, and new bathroom fixtures. The existing parking lot at the rear of the property will have new lighting and new fencing. The walkways around the building are proposed to be replaced in their existing configuration. There is no ground disturbance associated with this project. The project location is 9710 through 9730 West Outer Drive in the city of Detroit. The project will be completed in 2023, and will likely take around 12 months to complete.

In reviewing the *"Air Quality and Greenhouse Gas Study: Uptown Orange Apartments in Orange, California,"* dated December 2012, prepared for KTGY Group, Inc. by UltraSystems Environmental, Inc., it was determined that emission levels for the project were below the de minimis levels for general conformity. The Uptown Orange

Mr. Benjamin Buckley Page 2 March 23, 2022

Apartments project and related parking structure construction was estimated to take 33 months to complete, would encompass an area of 5.57 acres, and included two four-story residential units with a total of 334 apartments, and two parking structures with a total of 494 and 679 parking stalls, respectively.

The size, scope, and duration of the West Outer Drive Rehabilitation project proposed for completion in Wayne County is much smaller in scale than the Uptown Orange Apartments project described above and should not exceed the de minimis levels included in the federal general conformity requirements. Therefore, it does not require a detailed conformity analysis.

If you have any questions regarding this matter, please contact me at 517-648-6314; BukowskiB@Michigan.gov; or EGLE, Air Quality Division, P.O. Box 30260, Lansing, Michigan 48909-7760.

Sincerely,

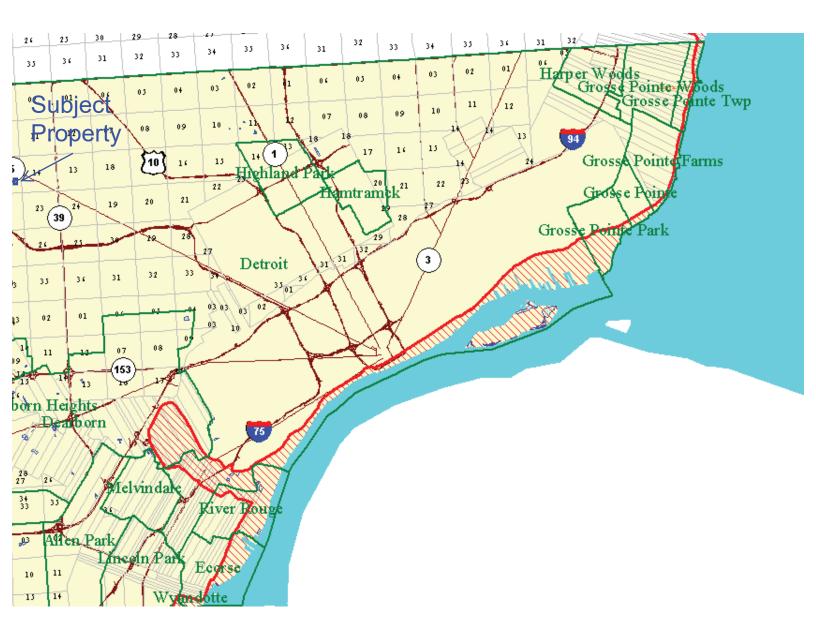
Breanne Bakenshi

Environmental Quality Analyst Air Quality Division

cc: Mr. Michael Leslie, USEPA Region 5
 Mr. Daniel Lince, Michigan State Housing Development Authority
 Ms. Penny Dwoinen, City of Detroit
 Ms. Becki Kenderes, Grandmont Rosedale Development Corporation

#### Wayne County Grosse Point Township, Grosse Point Woods, Grosse Point Farms Grosse Point, Grosse Point Park, and Detroit, T1S R14E Detroit, T1S R14E, T2S R13E, andT2S R12E River Rouge, T2S R11E

The heavy red line is the **Coastal Zone Management Boundary** The red hatched area is the **Coastal Zone Management Area**.





1155 Brewery Park Blvd., Suite 115, Detroit, Michigan 48207

### **ASBESTOS SURVEY**

For Grandmont Rosedale Development Corporation

of the Property located at 9710 and 9730 West Outer Drive, Detroit, Michigan 48223

> November 18, 2020 ECT No. 200532-0200

Complex Challenges . . . PRACTICAL SOLUTIONS

### Signature(s) of Environmental Professional(s)

The dual signatory process is an integral part of Environmental Consulting & Technology, Inc.'s (ECT's) Document Review Policy No. 9.03. All ECT documents undergo technical/peer review prior to dispatching these documents to any outside entity.

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professionals as defined in §312.10 of 40 C.F.R. 312. ECT staff conducting the on-site survey, have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property. We have developed and performed all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. 912.

This document has been authored and reviewed by the following employees:

<u>Maura Gibbons</u> Author

Signature

November 16, 2020 Date Michael T. Hebert Peer Review

Signature

November 17, 2020	
Date	



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#### APPENDICES

Appendix A—Accreditation Appendix B—Site Photographs Appendix C—Laboratory Analytical Report



### List of Acronyms

AHERAAsbestos Hazard Emergency Response ActASTMAmerican Society for Testing and MaterialsECTEnvironmental Consulting & Technology, Inc.EPAEnvironmental Protection AgencyGPRGround Penetrating Radar
ECTEnvironmental Consulting & Technology, Inc.EPAEnvironmental Protection Agency
EPA Environmental Protection Agency
ë .
GPR Ground Penetrating Radar
HASP Health and Safety Plan
HAZWOPER Hazardous Waste Operations
LARA Michigan Department of Labor and Regulatory Affairs
NELAP National Environmental Laboratory Accreditation Program
NESHAP National Emission Standards for Hazardous Air Pollutants
NREPA Natural Resources and Environmental Protection Act
OSHA Occupational Health and Safety Administration
PLM Polarized Light Microscopy
QA/QC Quality Assurance/Quality Control
QAPP Quality Assurance Project Plan
SAP Sampling and Analysis Plan
TEM Transmissive Electron Microscopy
TSI Thermal System Insulation



### **Definition of Terms**

The terms/abbreviations used herein are compliant with definitions referenced by the U. S. EPA publication entitled, "Asbestos Hazard Emergency Response Act".

*"Asbestos"* includes the minerals, chrysotile, crocidolite, amosite, anthophyllite, tremolite, and actinolite or any of these minerals that have been chemically treated and/or altered.

"Asbestos-Containing Material (ACM)" means any material containing more than 1% asbestos by weight.

*"Asbestos-Containing Building Material (ACBM)"* refers to surfacing, thermal system insulation, or miscellaneous building materials that are composed of asbestos of any type and in an amount greater than 1% by weight.

"Presumed Asbestos-Containing Building Material (PACM)" means thermal systems insulation and surfacing material found in buildings constructed before 1980.

"Functional Area" means a room, group of rooms, or homogeneous materials designated by a person accredited to perform inspections, prepare management plans, design abatement projects, or conduct response actions.



#### 1.0 Introduction

Environmental Consulting & Technology, Inc. (ECT) was retained by Grandmont Rosedale Development Corporation (Client) to perform an Asbestos Survey of the two apartment buildings (referred to as the Buildings) located at 9710 and 9730 West Outer Drive, in the City of Detroit, Wayne County, Michigan (referred to as the Subject Property). The Site Location Map is provided as **Figure 1**.

The Building addressed as 9710 West Outer Drive (referred to as 9710 Building) contains approximately 9,450 square feet of floor space and contains 10 apartment units. The Building addressed as 9730 West Outer Drive (referred to as 9730 Building) contains approximately 19,086 square feet of floor space and contains 23 apartment units.

#### 1.1 Detailed Scope of Services

ECT provided qualified labor, equipment and materials necessary to perform an Asbestos Survey of the Buildings in conformance with ECT's Standard Operating Procedures and applicable industry standards. During the inspection and assessment efforts, ECT personnel identified, inventoried, and quantified all suspected asbestos-containing materials (ACMs) associated with the Subject Property that would require abatement or special handling prior to renovation. Where prudent, physical samples of construction media suspected of containing a hazardous material (asbestos) were sampled and analyzed.

During the sampling activities, the presumed bulk asbestos samples were collected in general accordance with Asbestos Hazard Emergency Response Act (AHERA) guidelines requiring that the suspect materials be identified, located and documented, and that friable suspect materials be assessed and classified for friability and damage. Homogeneous areas were delineated and sampled during the inspection, as appropriate. Functional spaces were also identified for purposes of assessing all suspect materials and thermal system insulation (TSI). A physical assessment of friable and non-friable suspect materials was also performed.

All asbestos samples collected were submitted with chain-of-custody documentation to Fibertec Industrial Hygiene Services, Inc. (Fibertec), an analytical laboratory that is an accredited National Environmental Laboratory Accreditation Program (NVLAP) laboratory. The asbestos samples were analyzed by the Polarized Light Microscopy (PLM) method. Current Environmental Protection Agency (EPA) guidelines specify that when the initial laboratory analysis of materials detect the presence of asbestos in a quantity between one percent and less than ten percent, a verification analysis using the point counting analytical method may be considered. If the option is not exercised, the material in question will be considered as ACM.

#### 1.2 Limitations and Exceptions

The information summarized herein is provided to the Client for their general use and distribution. ECT has performed this Asbestos Survey in a professional manner using that degree of skill and care exercised for similar projects, under similar conditions, by reputable and competent environmental consultants. Except as set forth in this report, ECT has made no independent investigation as to the accuracy or completeness of the information derived from secondary sources and has assumed that such information was accurate and



complete. As such, ECT shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the evaluation was performed.

The following rooms were occupied during the inspection, thus, were not accessible. Therefore, the occupied apartment units should be assessed prior to any redevelopment activities:

- 9710 Building: Apartment Unit G1
- 9710 Building: Apartment Unit G2
- 9730 Building: Apartment Unit 109
- 9730 Building: Apartment Unit 202

#### 1.3 <u>Special Notice</u>

Pursuant to Michigan statutes, and specifically Part 305, the "<u>Asbestos for General Industry Standard</u>" and Part 602, the "<u>Asbestos Standards for Construction</u>", both standards require building owners/operators to conduct a thorough asbestos building survey if structures were constructed prior to 1981. This survey must identify the presence, location, and quantity of ACM and/or presumed asbestos-containing material (PACM) within the Buildings. Building materials presumed to contain asbestos include TSI (e.g., applied to pipes, fittings, boilers, breeching, tanks, ducts, or other structural components to prevent heat loss or gain) and surfacing material (e.g., sprayed, troweled-on, or otherwise applied to surfaces for acoustical, fireproofing, and/or other purposes). Contractors can only rebut the designation of a PACM by providing material sampling and laboratory analysis performed in accordance with Part 602, 1926. 1101 (k)(5).



### 2.0 Site Description

#### 2.1 <u>Location and Legal Description</u>

The Subject Property is situated along the west side of West Outer Drive, between Midland Street and Grand River Avenue, in the City of Detroit, Wayne County, Michigan. Comprised of two parcels, including the eastern portion of a larger, parent parcel (#22125672.002L) and a separate whole parcel (#22125673.001), the Subject Property contains approximately 0.76 acres of land. Provided by the City of Detroit's online property records, the legal descriptions for the parcels are below:

**9710 West Outer Drive - Parcel #22125672.002L:** "W OUTER DRIVE N 66 FT 50 EXCEPT OUTER DRIVE AS WD EDWARD J MINOCKS SUB L28 P94 PLATS, W C R 22/449 66 X 203.06 A."

**9730 West Outer Drive - Parcel #22125673.001:** "W OUTER DRIVE S 66 FT 50 N 66 FT 51 EXC OUTER DRIVE AS WD EDWARD J MINOCKS SUB L28 P94 PLATS, W C R 22/449 132 X 202.78 A."

#### 2.2 <u>Property Description</u>

The Subject Property is part of the Historic Rosedale Park District, located within the western portion of the City of Detroit. The surrounding area of the Subject Property is comprised predominantly of residential development, both single family residential structures and multi-tenant buildings.

#### 2.3 <u>General Construction</u>

The Buildings are multi-tenant apartment structures that each contain a ground floor, two stories, and an attic. The Buildings appear to be generally constructed with homogenous building materials. The 9710 Building contains approximately 9,450 square feet of floor space and contains 10 apartment units. The 9730 Building contains approximately 19,086 square feet of floor space and contains 23 apartment units. Based on information provided by the landowner (Mr. Stephen Lange), the Buildings were constructed in 1939 and 1940.

Prior to initiating the inspection, ECT submitted a public record request through the City of Detroit Law Department to review building department records associated with the Subject Property. However, the City of Detroit Law Department had not responded to the request prior to the sampling activities.

In addition, ECT reviewed parcel assessment records provided by the City of Detroit's online property records. However, the parcel assessment record did not provide any information regarding the Buildings construction materials. No other documentation of the Subject Property was available for review prior to the inspection activities.

#### 2.3.1 Exterior

The exterior walls of the Buildings are predominantly constructed with a brick façade, and all windows are constructed with wood frames and/or metal casements. Each Building contains two different roof types. An



angled roof with asphalt shingles covers the perimeters of the Buildings, and a flat roof with a white vinyl covering encompasses the central areas of the roofs.

#### 2.3.2 Interior

Two different homogenous areas were identified throughout the Buildings: 1) utility rooms and 2) apartment areas. ECT further identified functional spaces by separate floor levels and designated room areas.

The utility rooms (including the electric, laundry, boiler, and locker rooms) are located within the ground floor of each Building. The utility rooms are constructed primarily with concrete block walls and concrete flooring. Plaster wall board is also located intermittently throughout the walls and ceilings of the utility rooms. Drywall was also observed in the laundry room of the 9710 Building, only. TSI in the form of Aircell pipe insulation and Magnesia/Magnesite pipe joints were observed in all utility rooms. In addition, TSI duct wrap was observed in the 9710 Building, only.

The apartment areas include the hallways and apartment units within the ground, first, and second floors. The apartment areas are predominantly constructed with plaster walls and ceilings, carpet and/or hardwood flooring, and vinyl floor covering at the kitchen areas. ECT observed 19 different variations of vinyl floor coverings throughout the kitchen apartment units. In addition, the main entrances and bathrooms are constructed with ceramic tile walls and flooring. TSI in the form of Aircell pipe insulation, Magnesia/Magnesite pipe joints, and duct wrap was observed within the ground floor hallway of the 9710 Building, and Aircell pipe insulation was observed within the kitchen wall of Room 203 of the 9710 Building. No other TSI was observed within the apartment areas.

The attics of the Buildings are constructed with wood frames and pink fiberglass insulation. White fibrous insulation was observed below the pink fiberglass layer.

#### 2.4 <u>Physical Condition of Building</u>

Both Buildings are structurally sound. However, occasional areas of the shingled roofs appeared in poor condition at the time of the inspection.

In addition, numerous areas of the interior plaster (both utility room and apartment plasters) appeared damaged at the time of the inspection. Some areas of the plaster appeared to have been manually removed, and some areas of the plaster had evidence of water damage. However, most of the plaster throughout the Buildings appeared in good condition.

The TSI observed in the Buildings appeared mostly in good condition. However, it appeared that the TSI had been partially abated, as the pipe wrap was intermittently located along the pipes. Therefore, the ends of occasional pipe wraps are currently exposed.



### 3.0 Sampling Activities

The Buildings were inspected and surveyed on September 1 and 9, 2020. Both inspections were conducted by Ms. Maura Gibbons, who is accredited by the State of Michigan as an Asbestos Building Inspector, Accreditation No. A51771. Refer to **Appendix A**. The Site Photographs are provided as **Appendix B**.

ECT collected samples from the Buildings for asbestos analyses based upon the following: matrix, age of the material, and/or to confirm if the building material(s) contained asbestos above 1%. The samples were relinquished to Fibertec, a NVLAP laboratory, for third party analysis of asbestos pursuant to U.S. EPA Method 600/R-93/116 using the PLM method. All samples and all layers were to be analyzed until a group was defined as supporting asbestos above 1%. In total, 140 samples were collected, which were converted to 266 layers analyzed. The locations of the exterior samples are depicted on **Figure 2**, and the locations of the interior samples are depicted on Figure **3**.

#### 3.1 <u>Exterior</u>

Sample ID	Matrix Description	Visual Characteristics	Location
RAS -1 through -7	Roof Asphalt Shingles	Black/Gray 2D Shingles With Underlying Black Felt	Angled Areas of Roofs
FLR -1 through -5 Flat Roof Covering		White Covering; Black Felt; and Tan Fibrous Insulation	Flat Areas of Roofs
BWC -1 through -5	Black Window Caulk	Black	Ground Floor Windows
WWC -1 through -5	White Window Caulk	White	First & Second Floor Windows
WPG -1 through -7	Windowpane Glaze	White/Gray	All Windows

Below is a summary of the exterior building materials that were collected for asbestos analysis:

#### 3.2 Interior

The TSI samples (10DW, 10PJ, 10PW, etc.) were collected for confirmation of the presence of asbestos, thus, only two samples were collected per sample group. In addition, five fire doors were defined as presumed ACM; no samples were collected. Below is a summary of the interior building materials that were collected for asbestos analysis:



Sample ID	Matrix Description	Visual Characteristics	Location
AIN -1 through -9	Attic Insulation	White Fibrous (below Pink Fiberglass) Attics	
10DW -1 through -2	9710 Building Duct Wrap	White Fibrous Covering	Utility Rooms (Ground Floor)
10PJ -1 through -2	9710 Building Pipe Joints	White Fibrous (Magnesia)	Utility Rooms (Ground Floor)
10PW -1 through -2	9710 Building Pipe Wrap	White Fibrous (Air Cell)	Utility Rooms (Ground Floor) & Room 203 Kitchen
30PJ -1 through -2	9730 Building Pipe Joints	White Fibrous (Magnesia)	Utility Rooms (Ground Floor)
30PW -1 through -2	9730 Building Pipe Wrap	White Fibrous (Air Cell)	Utility Rooms (Ground Floor)
UPL -1 through -7	Utility Room Plaster	Gray: 1/4" Thickness	Utility Rooms (Ground Floor)
APL -1 through -9	Apartment Plaster	White: 1/2" Thickness	Apartment Units & Hallways
DRW -1 through -3	Drywall	White: 1/2" Thickness	9710 Building: Laundry Room
CWT -1 through -3	Ceramic Tile & Grout	Orange/Brown and Teal	Entrance Areas: Walls and Base Cover
MS -1 through -5	Mastic of Former Floor Tiles	Black	Ground Floors
ST -1 through -3	Stair Tread Coverings	Brown Fibrous Felt	Back Staircases
#FC -1 through -3	Vinyl Floor Covering/Mastic	See Table Below	See Table Below

Below is a description of the various vinyl floor coverings of the Buildings:

#FC	Visual Characteristics	Location		
1FC	Beige Sand Pattern	9730 Building Room 104: Kitchen		
2FC	Orange Floral Square Border	9730 Building Room 104: Cupboards		
3FC	Small Stone Pattern	9730 Building Room 103: Cupboards &		
51.6	Siliali Stolle I attern	9710 Building Room 203: Kitchen & Cupboards (below 16FC)		
4FC	Brown Diamond Pattern	9730 Building Room 105: Kitchen		
	Biown Blamone I attern	9730 Building Room 203: Kitchen		
5FC	Blue Vine Border	9730 Building Room 102: Kitchen		
6FC	Brick Tile Diamond Pattern	9730 Building Room 107: Kitchen &		
01.0	Dick The Diamone Latern	9710 Building Room 102: Cupboards		
7FC	Off-White Squares	9730 Building Room 107: Cupboards		
8FC	Blue Diamond Pattern	9730 Building Room 204: Kitchen		
9FC	White Speckled Squares	9730 Building Room 108: Kitchen		
10FC	Black Diamond Pattern	9730 Building Room 205: Kitchen		
TOPC	Diack Diamond Fattern	9730 Building Room 207: Kitchen		
11FC	Orange/Teal Border	9730 Building Room 209: Kitchen		
12FC	Orange Hexagon Pattern	9730 Building Room 208: Kitchen		
		9730 Building Room 205: Closet,		
13FC	White Square Borders	9710 Building Room: 102 Cupboards, &		
		9710 Building Room 104: Kitchen & Cupboards		
14FC	Beige Speckled Squares	9730 Building Room 206: Kitchen &		
		9730 Building Room 208: Cupboards		
15FC	Orange/Brown Lines Pattern	9730 Building Room 206: Cupboards		
16FC	Blue Floral Pattern	9710 Building Room 203: Kitchen & Cupboards		
17FC	Light Teal Stripes Pattern	9710 Building Room 204: Kitchen		
18FC	Thin Gray Square Borders	9710 Building Room 201: Kitchen & Cupboards		
19FC	Thick Gray Square Borders 9710 Building Room 103: Kitchen			



#### 4.0 Analytical Results

The Laboratory Analytical Report is provided as **Appendix C** and summarizes the bulk material analysis with respect to the percent of asbestos, fibers, and non-fibrous materials. The samples that did not support asbestos greater than 1% were reported as "No Asbestos Detected", and no further actions are warranted for those materials.

If one of the samples in the sample group, e.g. black window caulk samples, tested positive for asbestos then the entire group of black window caulk (BWC-1 through BWC-5) is considered positive for asbestos. A summary of the type and percentage of asbestos identified is presented in the table below:

Sample Group	Description	Asbestos Type	% Asbestos
BWC	Black Window Caulk	Chrysotile	4%
WWC	White Window Caulk	Chrysotile	8%
WPG	Windowpane Glaze	Chrysotile	2%
10DW	9710 Building: Duct Wrap	Chrysotile	75%
10PJ	9710 Building: Pipe Joints (Magnesia)	Chrysotile	80%
10PW	9710 Building: Pipe Wrap (Air Cell)	Chrysotile	60%
30PJ	9730 Building: Pipe Joints (Magnesia)	Chrysotile	80%
30PW	9730 Building: Pipe Wrap (Air Cell)	Chrysotile	70%
UPL	Utility Room Plaster	Chrysotile	5%
3FC	Vinyl Floor Covering: Small Stone Pattern	Chrysotile	80%

\*The floor covering (3FC) did not have any mastic/glue identified.

In addition, as described in Section 3.2, five fire doors were defined as PACM during the inspection.



### 5.0 Conclusions

ECT has performed this assessment in accordance with AHERA guidelines that require ACM materials be identified, located, documented, and classified. The following table provides a summary of ACMs and/or PACMs associated with the Subject Property:

Sample Group	Material	Location	Approximate Size	Туре	Condition
BWC	Black Window Caulk	Ground Floor Windows	~1,341 lin ft	Non-Friable Miscellaneous Category II	Damaged
WWC	White Window Caulk	First & Second Floor Windows	~2,683 lin ft	Non-Friable Miscellaneous Category II	Damaged
WPG	Windowpane Glaze	All Windows	~7,161 lin ft	Non-Friable Miscellaneous Category II	Damaged
10DW	9710 Building: Duct Wrap	9710 Building Utility Rooms (Ground Floor)	~78 ft <sup>2</sup> (24 lin ft)	F <del>r</del> iable TSI	Good
10PJ & 30PJ	Pipe Joints (Magnesia)	Utility Rooms (Ground Floors)	<4" Pipes: 142 joints 8" Pipes: 41 joints	Friable TSI	Good
10PW & 30PW	Pipe Wrap (Air Cell)	& 9710 Building Room 203: Kitchen	<4" Pipes: ~517 lin ft 8" Pipes: ~319 lin ft	Friable TSI	Slightly Damaged/ Not Enclosed
N/A (PACM)	Fire Doors	Hallways See <b>Figure 3</b>	$\sim$ 320 ft <sup>2</sup> (5 Doors)	Friable TSI	Good/ Enclosed
UPL	Utility Room Plaster	Utility Rooms (Ground Floors): Walls and Ceilings	~5,984 ft <sup>2</sup>	Friable Surfacing	Slightly Damaged
3FC *	Vinyl Floor Covering: Small Stone Pattern	9730 Building Room 103: Cupboards & 9710 Building Room 203: Kitchen & Cupboards (below 16FC)	~108 ft <sup>2</sup>	Non-Friable Miscellaneous Category I	Slightly Damaged

\* The floor covering (3FC) did not have any mastic/glue identified.



Room Name	1' Diameter	< 4" Pipe	< 4" Pipe	8" Pipe	8" Pipe	
Koom Name	Duct	Joints	Wrap	Joints	Wrap	
	9710 Building					
Boiler Room	-	21 joints	102 lin ft	7 joints	49 lin ft	
Locker Room	-	4 joints	28 lin ft	-	-	
Laundry Room	15 lin ft	19 jonts	51 lin ft	-	-	
Ground Floor: Staircases/Hallway	9 lin ft	10 joints	108 lin ft	-	-	
Room 203 Kitchen	-	-	1 lin ft	-	-	
	9730 Bi	uilding				
Electric Room	-	23 joints	42 lin ft	14 joints	51 lin ft	
Laundry Room	-	33 joints	85 lin ft	-	56 lin ft	
Boiler Room	-	16 joints	38 lin ft	16 joints	107 lin ft	
Locker Room	-	14 joints	38 lin ft	4 joints	56 lin ft	
Ground Floor: Back Staircase	=	2 joints	24 lin ft	-	-	

The location of the TSI is illustrated on **Figure 4**. Below is a breakdown of the locations and sizes of the TSI identified within the Buildings:

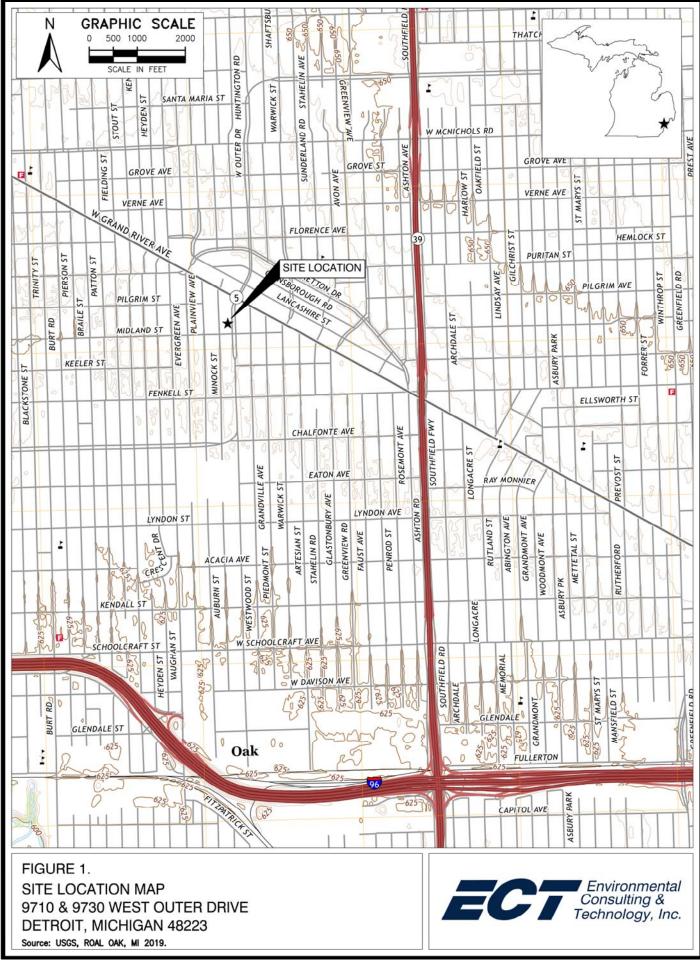
Lastly, the following apartment units were occupied during the inspection, thus, were not accessible. Therefore, the occupied units should be assessed prior to any redevelopment activities:

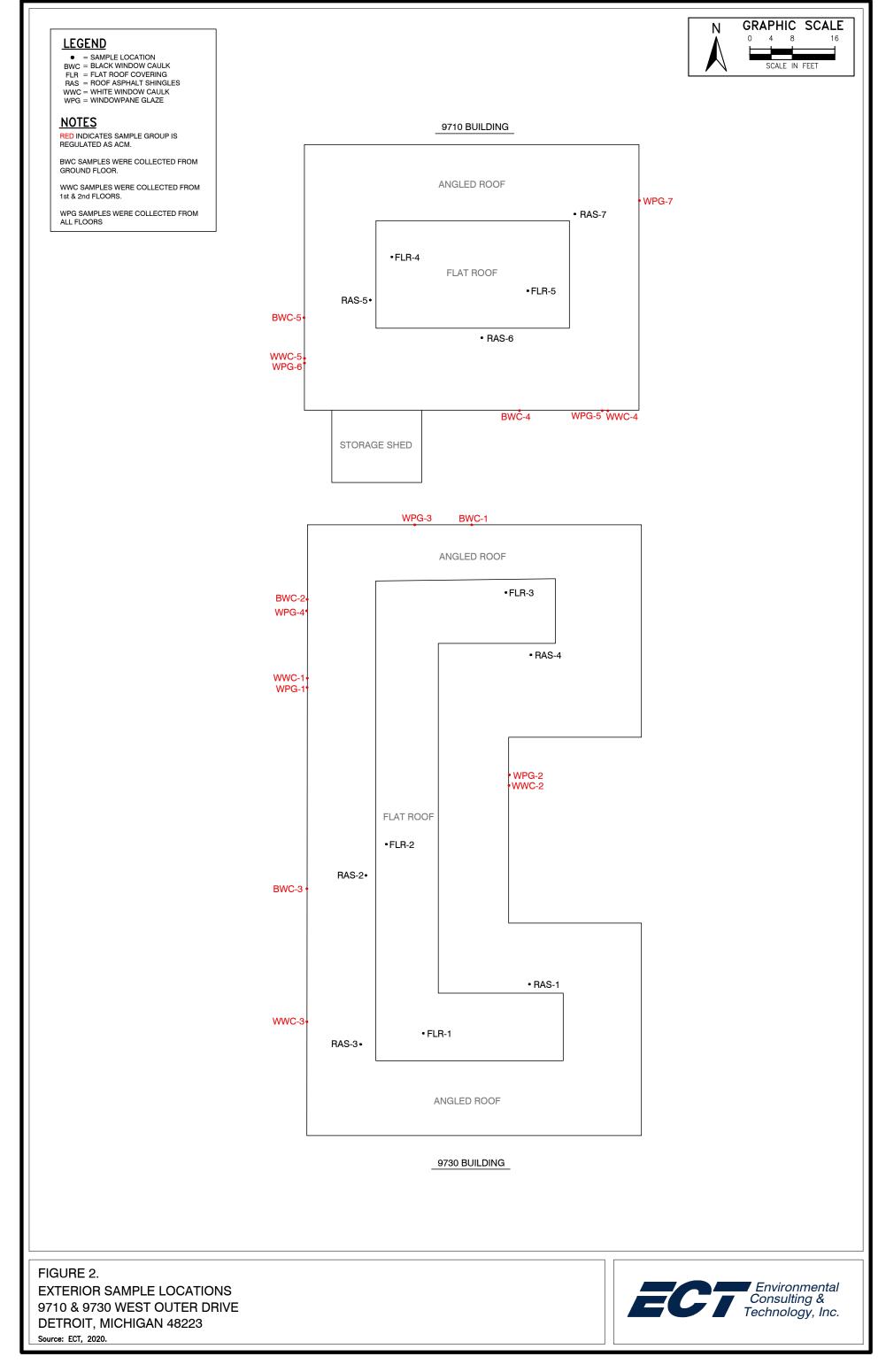
- 9710 Building: Apartment Unit G1
- 9710 Building: Apartment Unit G2
- 9730 Building: Apartment Unit 109
- 9730 Building: Apartment Unit 202

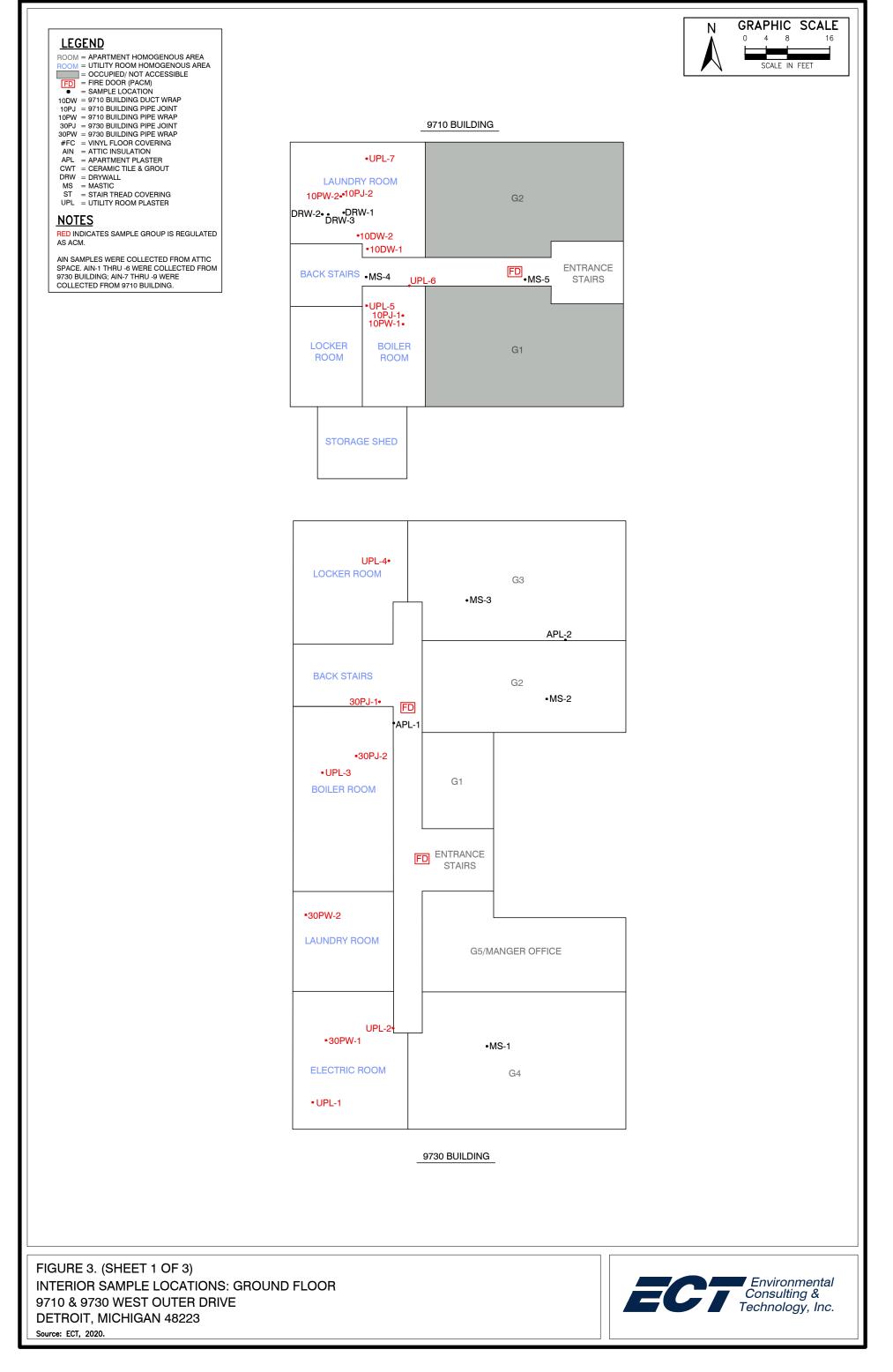


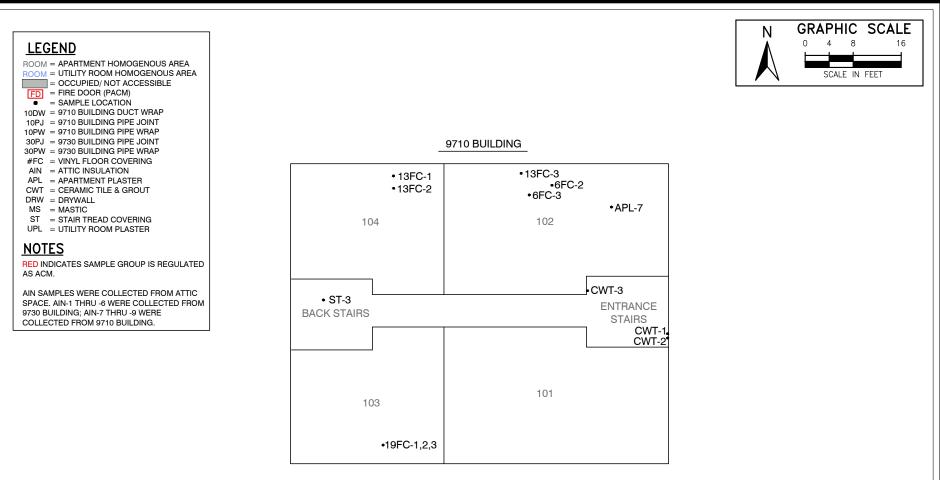
FIGURES

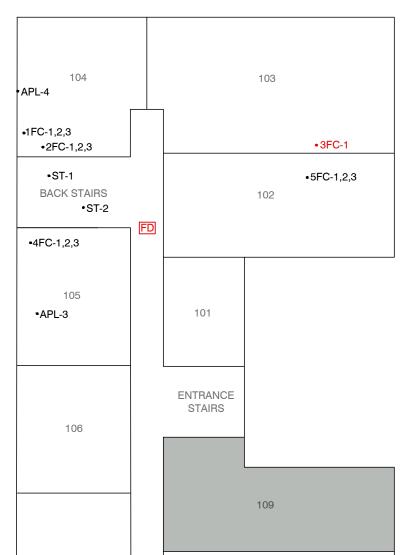
Sep 10, 2020 - 11:05am by mgibbons

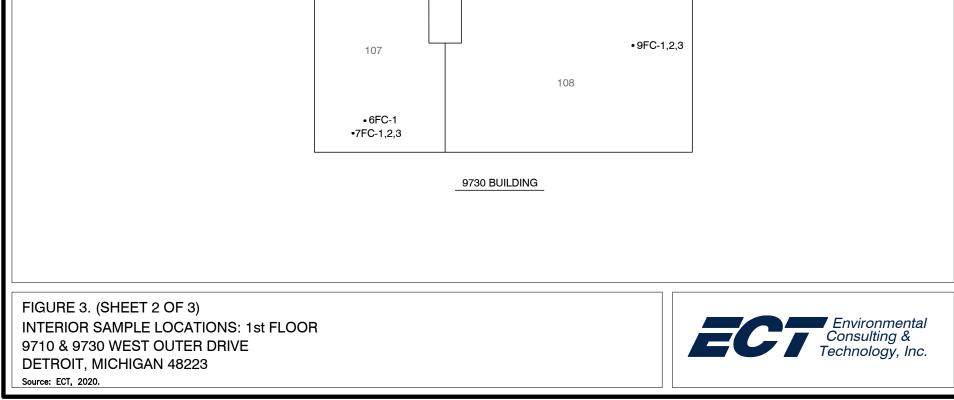




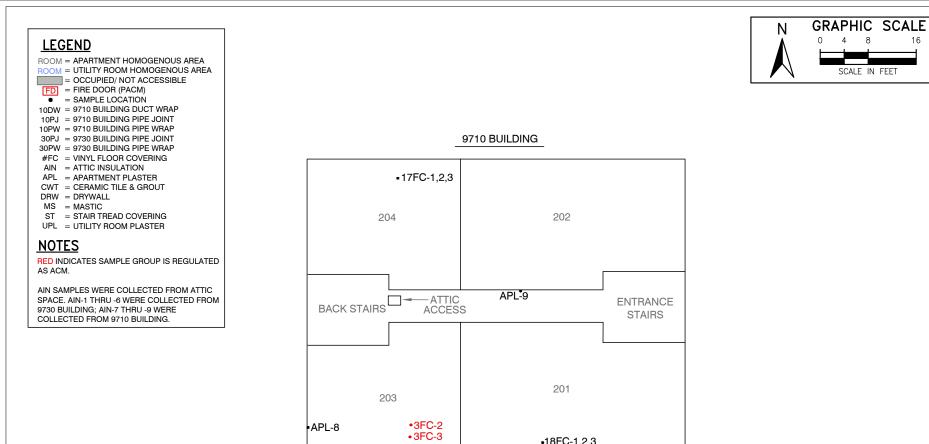




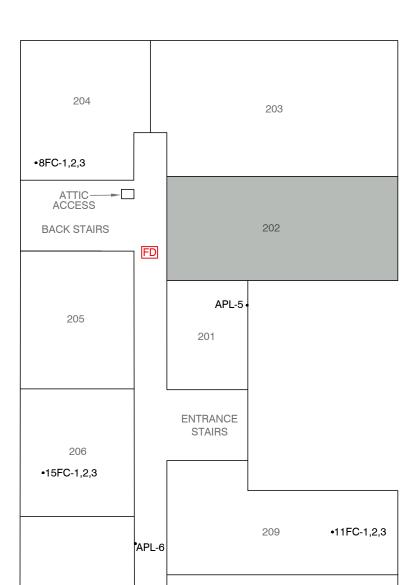




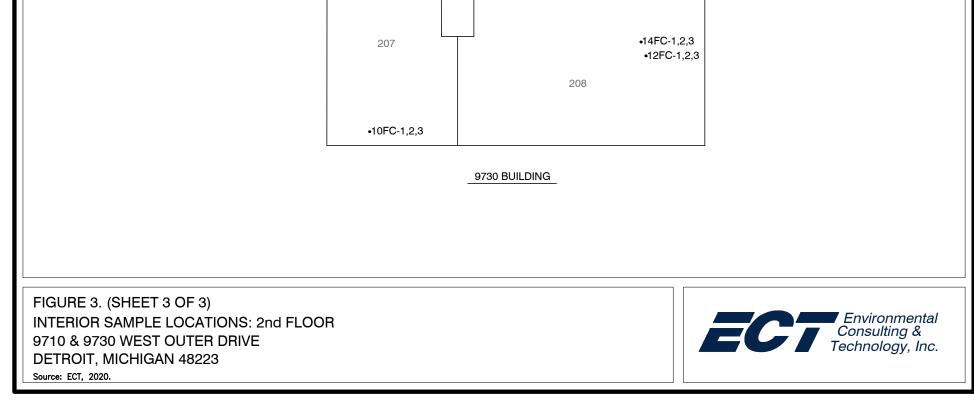
16

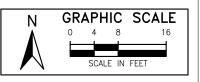


•16FC-1,2,3



•18FC-1,2,3



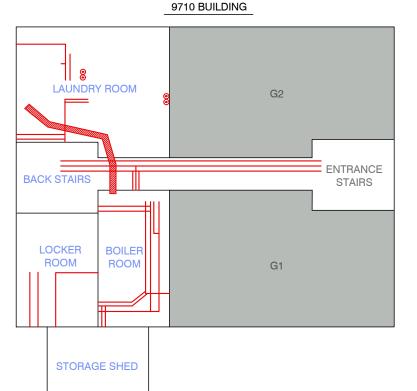


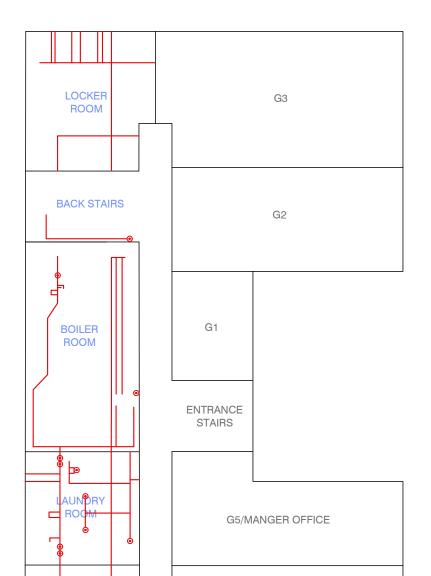
<u>LEGEND</u>

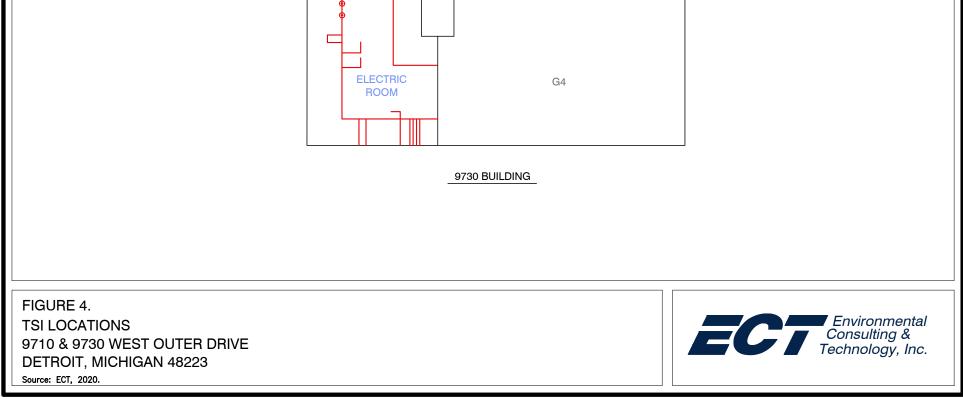
ROOM = APARTMENT HOMOGENOUS AREA ROOM = UTILITY ROOM HOMOGENOUS AREA = OCCUPIED/ NOT ACCESSIBLE = TSI PIPE WRAP AND JOINTS (HORIZONTAL) = TSI PIPE WRAP AND JOINTS (VERTICAL)

<u>NOTES</u>

1 FOOT OF TSI PIPE WRAP IS ALSO LOCATED IN 1910 BUILDING ROOM 203: KITCHEN (OVEN WALL)

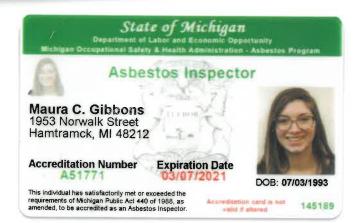






APPENDIX A

Accreditation

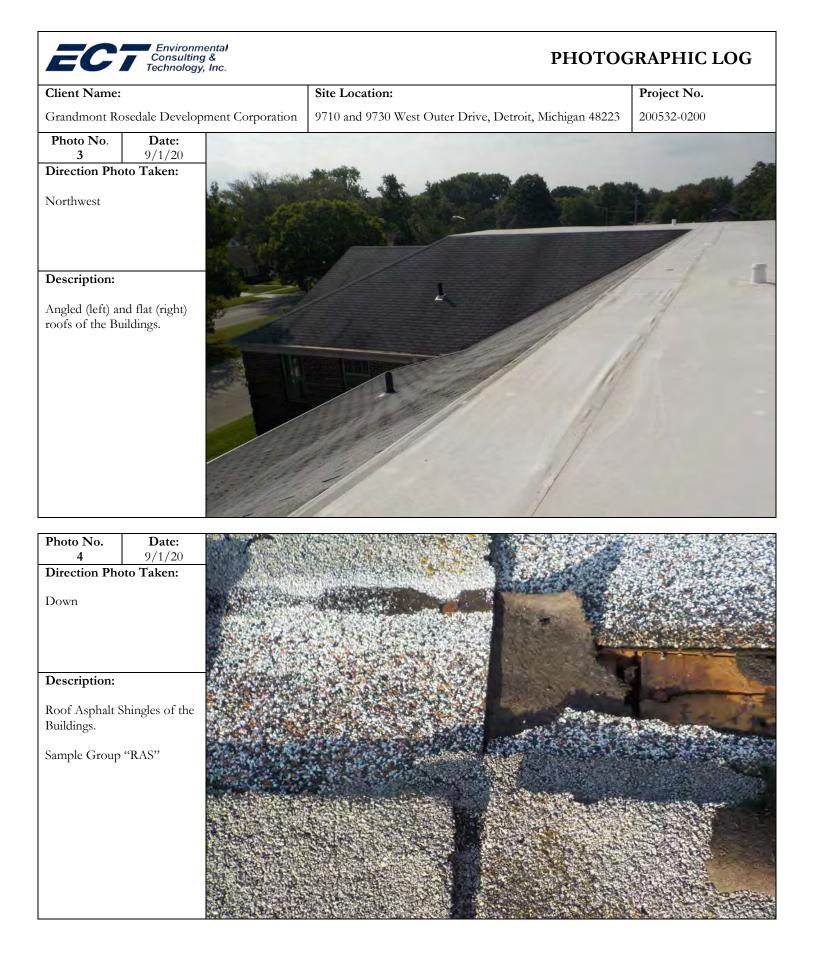


#### APPENDIX B

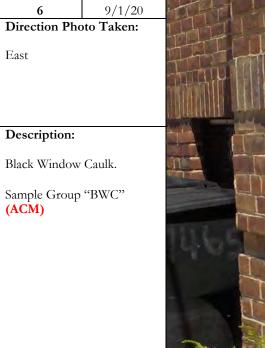
Site Photographs



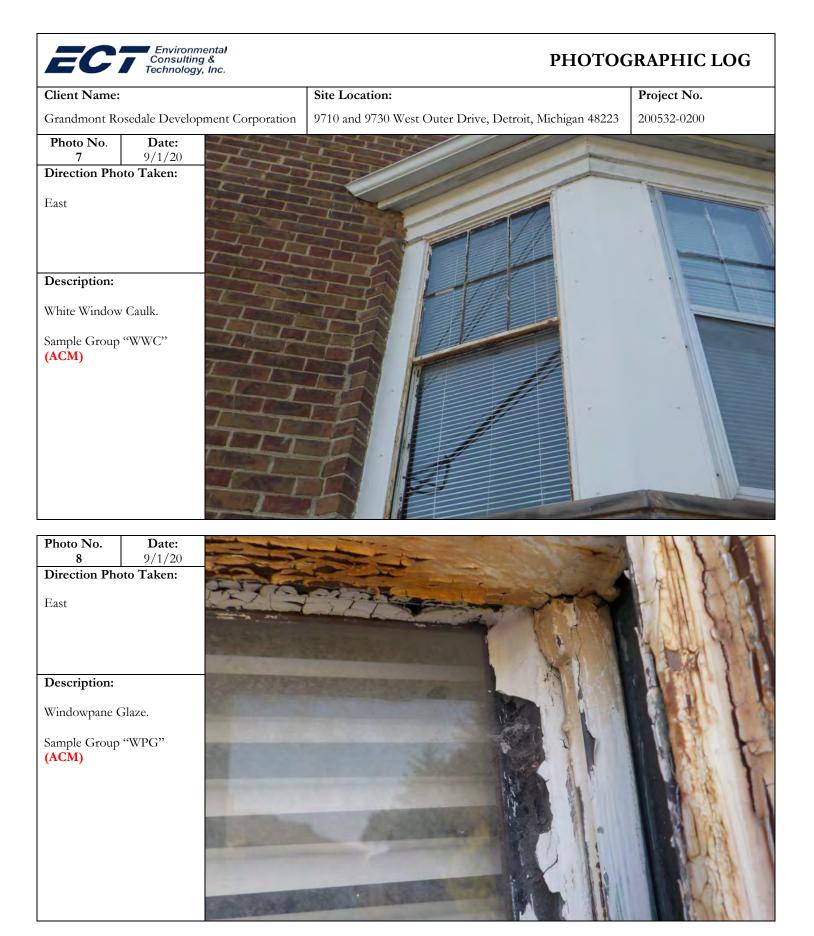


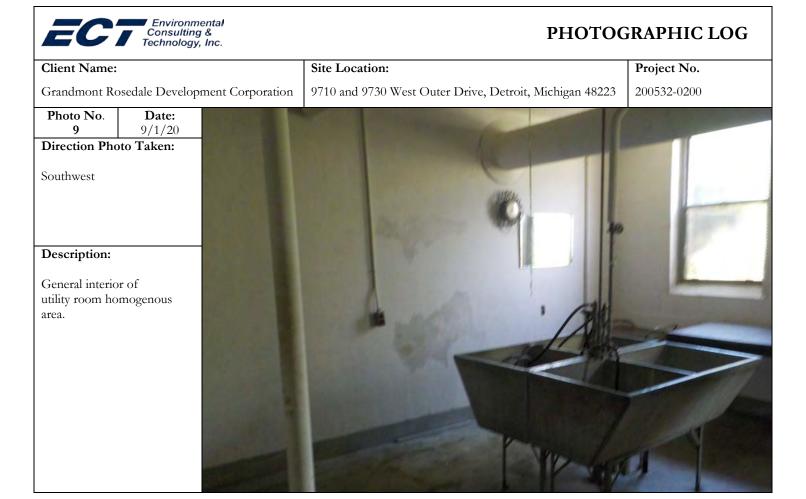


EC	Environm Consulting Technology	ental j & ; Inc.	РНОТОС	GRAPHIC LOG
Client Name:			Site Location:	Project No.
Grandmont Ro	osedale Develop	ment Corporation	9710 and 9730 West Outer Drive, Detroit, Michigan 48223	200532-0200
Photo No. 5 Direction Pho	<b>Date:</b> 9/1/20			and the second
Down	io Taken.			
Description:				
Flat Roof Cove Buildings.	ering of	Chief and	The Part	
Sample Group	"FLR"			
Photo No.	Date:	1-1-1-1-1		









10

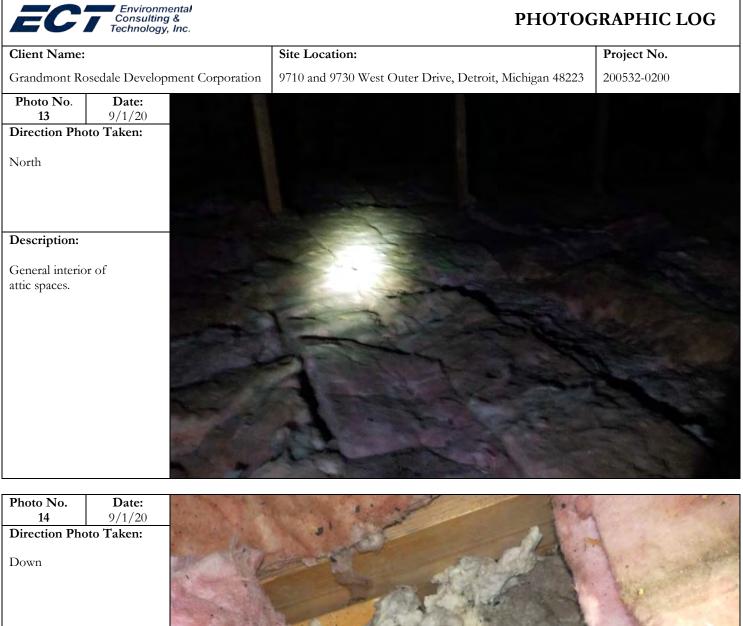
South

area.









Description:

Attic Insulation

Sample Group "AIN"











North

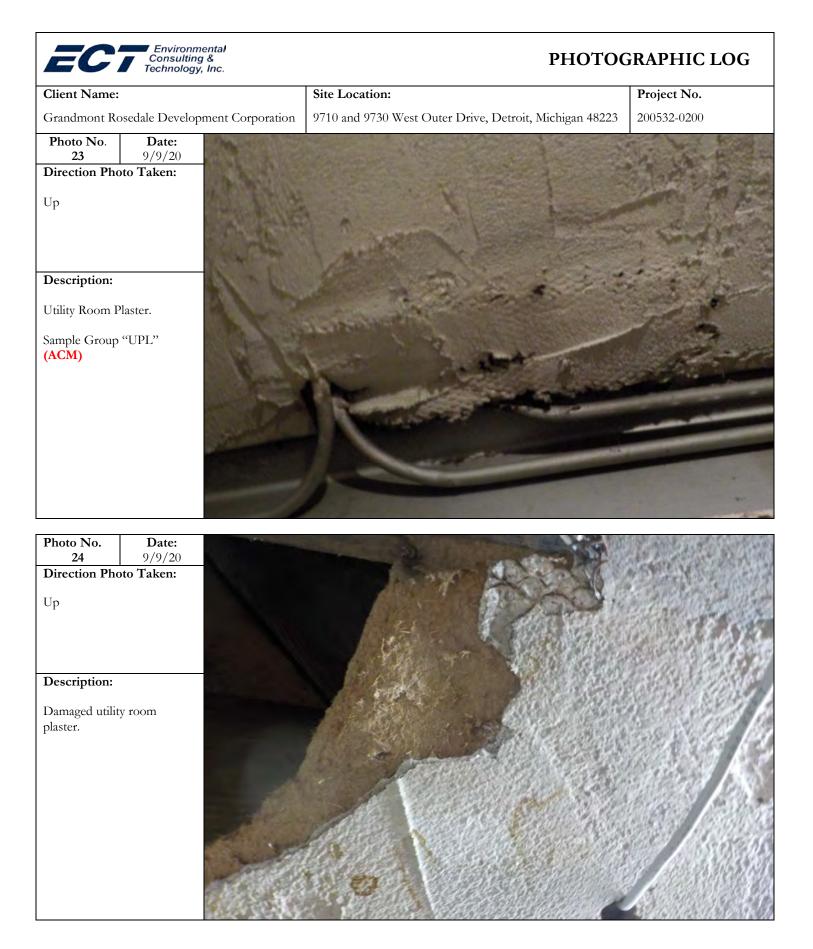


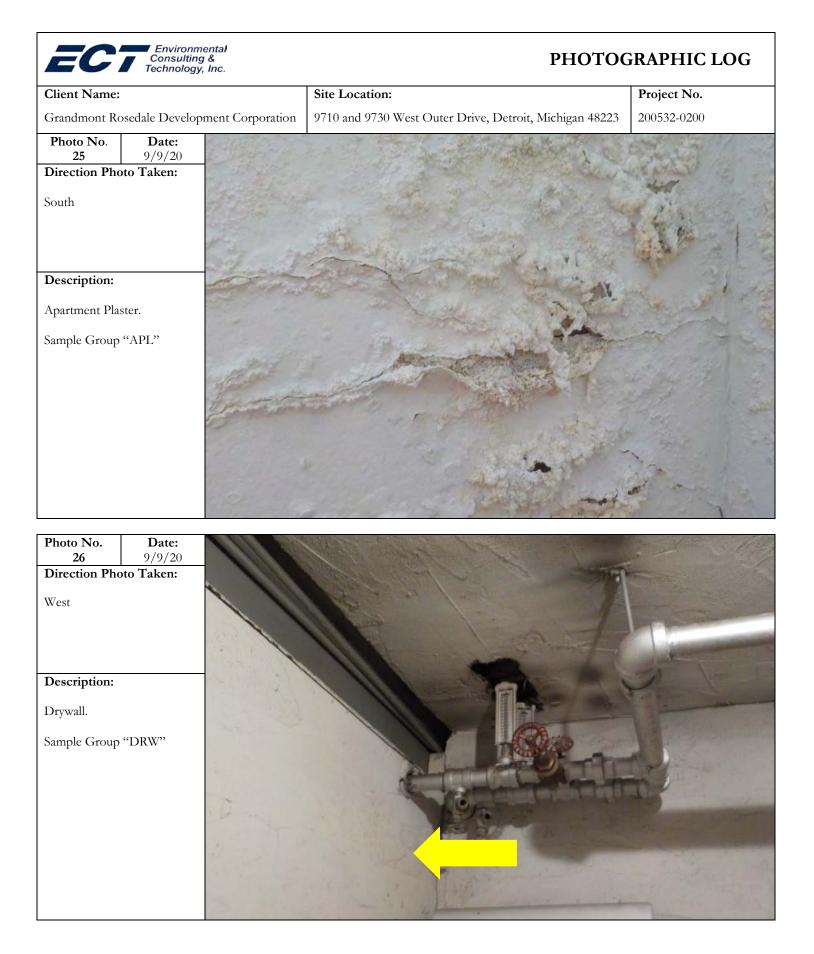
(ACM)

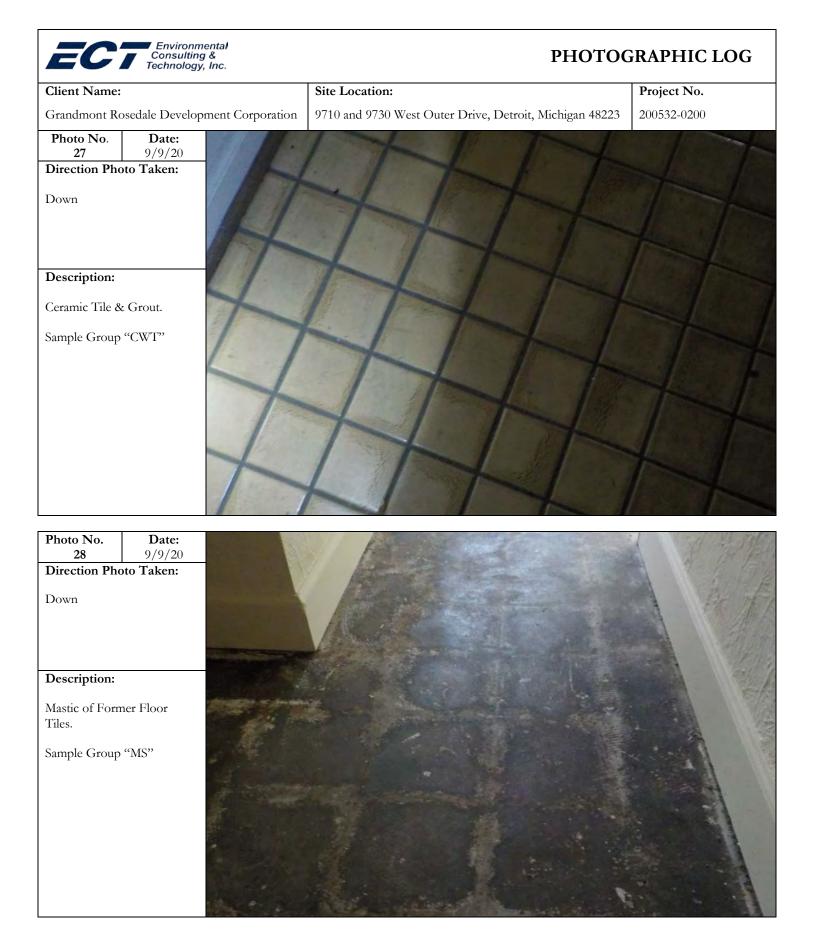






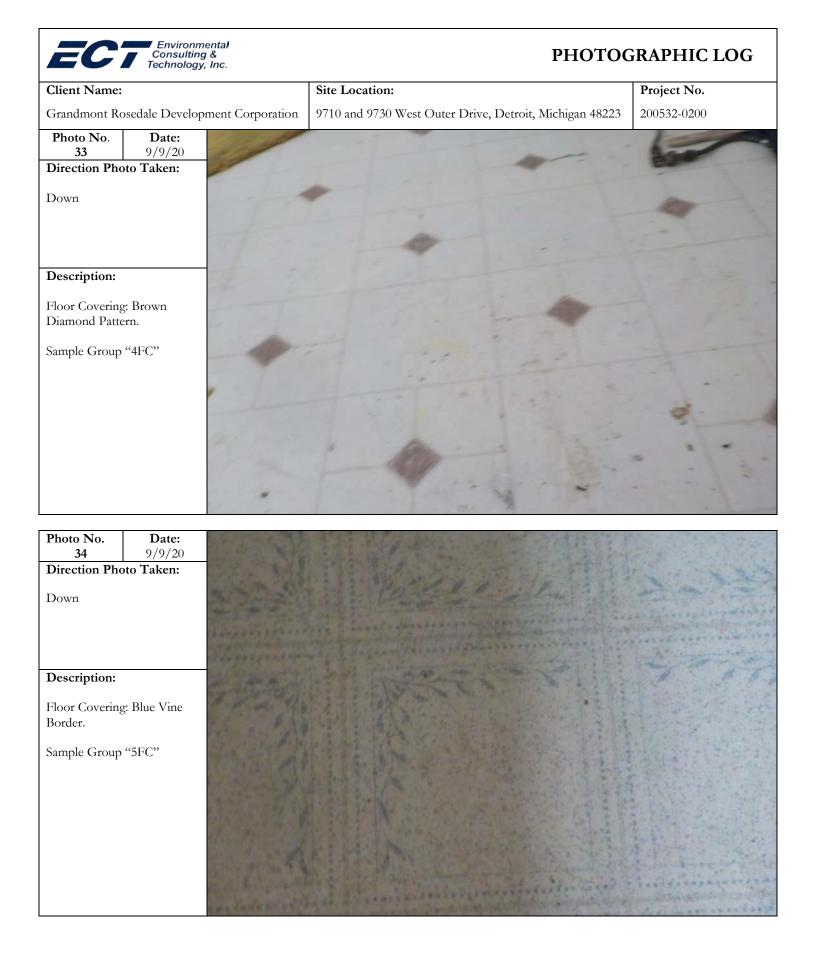




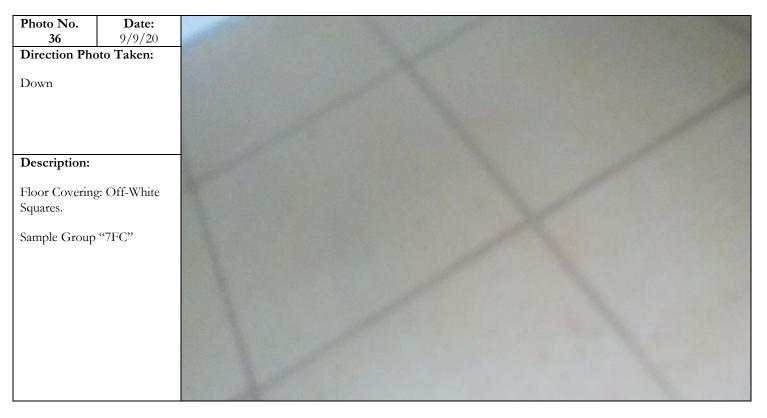






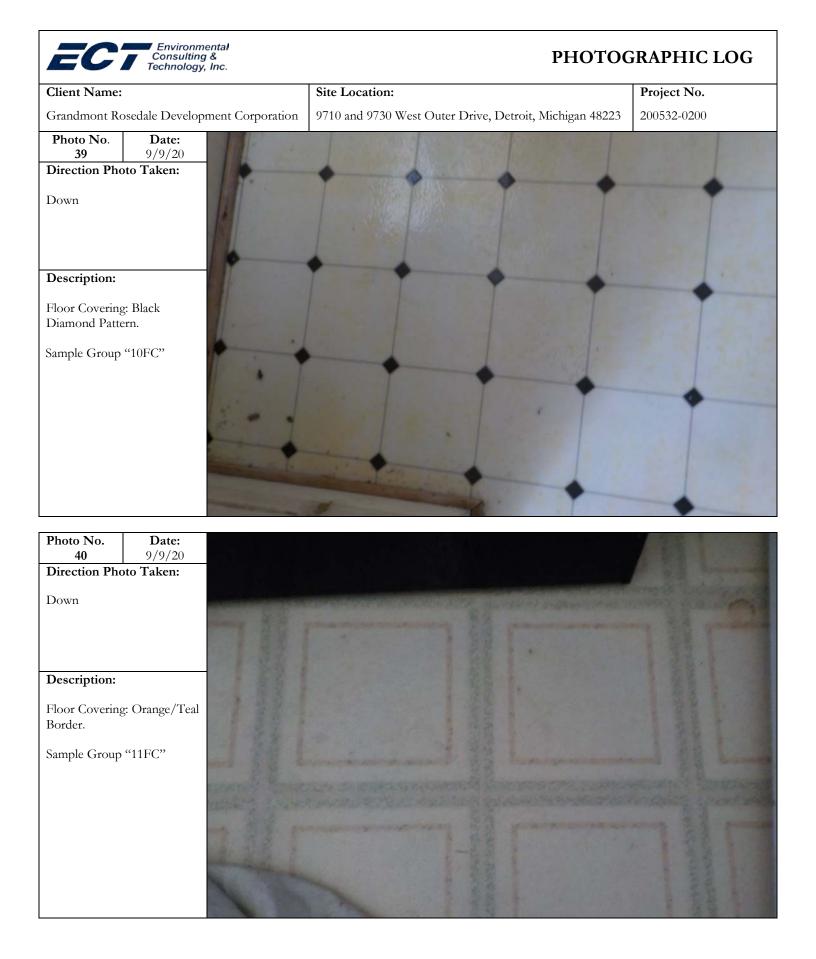






EC7	Environmental Consulting & Technology, Inc. PHOTOGRAPHIC LO					
Client Name:		Site Location:	Project No.			
Grandmont Rose	dale Development Corporatio	n 9710 and 9730 West Outer Drive, Detroit, Michigan	48223 200532-0200			
Photo No. 37 Direction Photo	Date:           9/9/20           Taken:	0000	0000			
Down	$\rightarrow \phi$					
Description:	50	->->->->->	000			
Floor Covering: F Diamond Pattern	Blue					
Sample Group "8	FC"	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	000			
		\$\$\$\$	$\diamond \diamond \diamond$			
		10-10-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	000			







## PHOTOGRAPHIC LOG

Client Name:

Grandmont Rosedale Development Corporation

9710 and 9730 West Outer Drive, Detroit, Michigan 48223

**Project No.** 200532-0200



Site Location:



ECT	Environme Consulting Technology,	ental & Inc.	РНОТО	GRAPHIC LOG
Client Name:			Site Location:	Project No.
Grandmont Ros	edale Developr	ment Corporation	9710 and 9730 West Outer Drive, Detroit, Michigan 48223	200532-0200
Photo No.	Date:	-		
43 Direction Phote	9/9/20 o Taken:			and the state of t
Down				the state
Description:				
Floor Covering: Speckled Square Sample Group "	s.			
Photo No.	Date:			A STATE OF THE OWNER
44 Direction Photo	9/9/20		The American Statement of the American State	
Down	o Taken.			A COLOR
Description:				
Floor Covering: Orange/Brown Pattern.	Lines			- WWW
Sample Group "	15FC"			

Г







APPENDIX C

Laboratory Analytical Report



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name: 9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bul	k Samples, 266 Sample Layers Anal	yzed.	
Date Sampled:	9/1/2020	Client P.O. #:	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

 N/A

 C.O.C. #:
 N/A

 Report Date:
 10/15/2020

Sample	Client I.D.			Non-Asbestos Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
RAS 1	RAS 1	Black tabular and asphaltic material, Roof Asphalt Shingles. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
RAS 1	RAS 1	Black tabular, fibrous and asphaltic material, Roof Asphalt Shingles. Layer 2 of 2.	NAD	Non-fibrous material 40% Cellulose fibers 60%	EE
RAS 2	RAS 2	Black and white tabular, asphaltic and granular material, Roof Asphalt Shingles. Layer 1 of 3.	NAD	Non-fibrous material 98% Cellulose fibers 2%	EE
RAS 2	RAS 2	Black asphaltic, fibrous and tabular material, Roof Asphalt Shingles. Layer 2 of 3.	NAD	Non-fibrous material 35% Cellulose fibers 65%	EE
RAS 2	RAS 2	Black asphaltic and mastic material, Roof Asphalt Shingles. Layer 3 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
RAS 3	RAS 3	Black and white tabular, asphaltic and granular material, Roof Asphalt Shingles. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
RAS 3	RAS 3	Black tabular, fibrous and asphaltic material, Roof Asphalt Shingles. Layer 2 of 3.	NAD	Non-fibrous material 65% Cellulose fibers 35%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT	
Project Name:	9710 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.	

Date Sampled:	9/1/2020
Date Submitted:	9/23/2020
Date Analyzed:	9/28-10/14/20

Client P.O. #:	N/A	
C.O.C. #:	N/A	
Report Date:	10/15/2020	_

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
RAS 3	RAS 3	Black tabular, fibrous and asphaltic material, Roof Asphalt Shingles. Layer 3 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE
RAS 4	RAS 4	White and black tabular, asphaltic and granular material, Roof Asphalt Shingles. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
RAS 4	RAS 4	White tabular, fibrous and asphaltic material, Roof Asphalt Shingles. Layer 2 of 3.	NAD	Non-fibrous material 35% Cellulose fibers 65%	EE
RAS 4	RAS 4	Black tabular, asphaltic and mastic material, Roof Asphalt Shingles. Layer 3 of 3.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
RAS 5	RAS 5	Black and white tabular, asphaltic and granular material, Roof Asphalt Shingles. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
RAS 5	RAS 5	Black tabular, fibrous and asphaltic material, Roof Asphalt Shingles. Layer 2 of 3.	NAD	Non-fibrous material 35% Cellulose fibers 65%	EE
RAS 5	RAS 5	Black tabular and asphaltic material, Roof Asphalt Shingles. Layer 3 of 3.	NAD	Non-fibrous material 98% Cellulose fibers 2%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT				
Project Name:		9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Su	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
2						
Date Sampled:	9/1/2020	Client P.O. #:	N/A			
Date Submitted:	9/23/2020	C.O.C. #:	N/A			
Date Analyzed:	9/28-10/14/20	Report Date:	10/15/2020			

Sample	Client I.D.			Non-Asbestos-Containing	1
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
FLR 1	FLR 1	White tabular and fibrous material, Flat Roof Covering. Layer 1 of 3.	NAD	Non-fibrous material 65% Synthetic fibers 35%	EE
FLR 1	FLR 1	Tan fibrous material, Flat Roof Covering. Layer 2 of 3.	NAD	Cellulose fibers 100%	EE
FLR 1	FLR 1	Tan and black fibrous and asphaltic material, Flat Roof Covering. Layer 3 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
FLR 2	FLR 2	White tabular and fibrous material, Flat Roof Covering. Layer 1 of 3.	NAD	Non-fibrous material 60% Synthetic fibers 40%	EE
FLR 2	FLR 2	Tan fibrous material, Flat Roof Covering. Layer 2 of 3.	NAD	Cellulose fibers 100%	EE
FLR 2	FLR 2	Black tabular, fibrous and asphaltic material, Flat Roof Covering. Layer 3 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
FLR 3	FLR 3	White tabular and fibrous material, Flat Roof Covering. Layer 1 of 3.	NAD	Non-fibrous material 65% Synthetic fibers 35%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT					
Project Name:	9710 & 9730 West Outer Drive/200532-0100					
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.					
Date Sampled:	9/1/2020	Client P.O. #:	N/A			

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.		1	Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
FLR 3	FLR 3	Tan tabular and fibrous material, Flat Roof Covering. Layer 2 of 3.	NAD	Cellulose fibers 100%	EE
FLR 3	FLR 3	Black tabular, fibrous and asphaltic material, Flat Roof Covering. Layer 3 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
FLR 4	FLR 4	White tabular and fibrous material, Flat Roof Covering. Layer 1 of 3.	NAD	Non-fibrous material 65% Synthetic fibers 35%	EE
FLR 4	FLR 4	Tan fibrous and tabular material, Flat Roof Covering. Layer 2 of 3.	NAD	Cellulose fibers 100%	EE
FLR 4	FLR 4	Black tabular, fibrous and asphaltic material, Flat Roof Covering. Layer 3 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
FLR 5	FLR 5	White tabular and fibrous material, Flat Roof Covering. Layer 1 of 3.	NAD	Non-fibrous material 65% Synthetic fibers 35%	EE
FLR 5	FLR 5	Tan fibrous and tabular material, Flat Roof Covering. Layer 2 of 3.	NAD	Cellulose fibers 100%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:	9710 & 9730 West Outer Drive/200532-0100			
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled:	9/1/2020	Client P.O. #:	N/A	
Date Submitted:	9/23/2020	COC #	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
FLR 5	FLR 5	Black tabular, fibrous and asphaltic material, Flat Roof Covering. Layer 3 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
BWC 1	BWC 1	Black and green tabular and paint material, Black Window Caulk. Layer 1 of 2.	Chrysotile 1%	Non-fibrous material >98% Cellulose fibers <1%	EE
BWC 1	BWC 1	Brown tabular and fibrous material, Black Window Caulk. Layer 2 of 2.	Chrysotile 4%	Non-fibrous material 94% Cellulose fibers 2%	EE
WWC 1	WWC 1	White tabular and paint material, White Window Caulk. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WWC 1	WWC 1	Tan tabular material, White Window Caulk. Layer 2 of 2.	Chrysotile 8%	Non-fibrous material 92%	EE
WPG 1	WPG 1	White tabular and paint material, Window Pane Glaze. Layer 1 of 2.	NAD	Non-fibrous material 100%	EE
WPG 1	WPG 1	White tabular material, Window Pane Glaze. Layer 2 of 2.	NAD	Non-fibrous material 100%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name: 9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled:	9/1/2020	Client P.O. #:	N/A	
Date Submitted	9/23/2020	$C \cap C \#$	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Client P.O. #: N/A C.O.C. #: N/A Report Date: TRUE

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
WPG 2	WPG 2	White tabular and paint material, Window Pane Glaze. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 2	WPG 2	Gray tabular material, Window Pane Glaze. Layer 2 of 2.	NAD	Non-fibrous material 98% Cellulose fibers 2%	EE
WPG 3	WPG 3	Black and green tabular and paint material, Window Pane Glaze. Layer 1 of 3.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
WPG 3	WPG 3	Tan tabular material, Window Pane Glaze. Layer 2 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 3	WPG 3	White tabular and powdery material, Window Pane Glaze. Layer 3 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 4	WPG 4	White paint and tabular material, Window Pane Glaze. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers <1%	EE
WPG 4	WPG 4	White and tan tabular material, Window Pane Glaze. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT			
Project Name:	9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	Client P.O. #:	N/A		

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description</b> / Location	Asbestos Type	Portion	Analyst
WPG 5	WPG 5	White tabular and paint material, Window Pane Glaze.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 5	WPG 5	Tan tabular material, Window Pane Glaze. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 6	WPG 6	White tabular and paint material, Window Pane Glaze. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
WPG 6	WPG 6	Gray tabular material, Window Pane Glaze. Layer 2 of 2.	Chrysotile 2%	Non-fibrous material >97% Cellulose fibers <1%	EE
AIN 1	AIN 1	White fibrous material, Attic Insulation.	NAD	Mineral wool 99% Cellulose fibers 1%	EE
AIN 2	AIN 2	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
AIN 3	AIN 3	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:	9710 & 9730 West Outer Drive/200532-0100			
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled:	9/1/2020	Client P.O. #:	N/A	
D.4. O.1	0/02/2020		NT/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
AIN 4	AIN 4	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
			8		
AIN 5	AIN 5	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
AIN 6	AIN 6	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
AIN 7	AIN 7	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
AIN 8	AIN 8	White fibrous material, Attic Insulation.	- NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
AIN 9	AIN 9	White fibrous material, Attic Insulation.	NAD	Non-fibrous material 1% Mineral wool 97% Cellulose fibers 2%	EE
10DW 1	10DW 1	Gray fibrous material, 9710 Duct Wrap.	Chrysotile 75%	Non-fibrous material 10% Cellulose fibers 15%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT			
Project Name:	9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	Client P.O. #:	N/A		
Date Submitted:	9/23/2020	C.O.C. #:	N/A		

Date Submitted 9/28-10/14/20 Date Analyzed:

C.O.C. #: Report Date: 10/15/2020

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
10PJ 1	10PJ 1	Gray tabular and fibrous material, 9710 Pipe Joints.	Chrysotile 80%	Non-fibrous material 18% Cellulose fibers 2%	EE
10PW 1	10PW 1	White fibrous material, 9710 Pipe Wrap.	Chrysotile 60%	Non-fibrous material 30% Cellulose fibers 10%	EE
30PJ 1	30PJ 1	White tabular and fibrous material, 9730 Pipe Joints.	Chrysotile 80%	Non-fibrous material 18% Cellulose fibers 2%	EE
30PW-1	30PW-1	White fibrous material, 9730 Pipe Wrap. Layer 1 of 2.	NAD	Non-fibrous material 10% Cellulose fibers 90%	EE
30PW-1	30PW-1	Gray tabular and fibrous material, 9730 Pipe Wrap. Layer 2 of 2.	Chrysotile 70%	Non-fibrous material 5% Cellulose fibers 25%	EE
APL 1	APL 1	Tan tabular and paint material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
APL 1	APL 1	White tabular and powdery material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT			
Project Name:	9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	Client P.O. #:	N/A		
Data Systemittade	0/22/2020		DT/A		

Date Submitted: 9/23/2020 9/28-10/14/20 Date Analyzed:

C.O.C. #: N/A

Sample	Client I.D. Non-Asbestos-Containing					
No.	No.	Description / Location	Asbestos Type	Portion	Analyst	
APL 2	APL 2	White tabular and paint material, Apartment Unit Plaster. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE	
APL 2	APL 2	White tabular and powdery material, Apartment Unit Plaster. Layer 2 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE	
APL 2	APL 2	Gray granular material, Apartment Unit Plaster. Layer 3 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE	
APL 3	APL 3	Brown tabular and fibrous material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE	
APL 3	APL 3	White tabular and powdery material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE	
APL 4	APL 4	White and cream tabular and paint material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE	
APL 4		White tabular, powdery and granular material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE	



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

, Inc.						
Client Name:	ECT					
Project Name:	9710 & 9730 West Outer Drive/200532-0100 119 Submitted Bulk Samples, 266 Sample Layers Analyzed.					
Summary:						
Date Sampled:	9/1/2020	Client P.O. #:	N/A			

Date Submitted: 9/23/2020 9/28-10/14/20 Date Analyzed:

C.O.C. #: N/A

Sample	mple Client I.D. Non-Asbestos-Containin						
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst		
APL 5	APL 5	White and cream tabular and paint material, Apartment Unit Plaster. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		
APL 5	APL 5	White tabular and powdery material, Apartment Unit Plaster. Layer 2 of 3.	. NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		
APL 5	APL 5	Gray tabular, granular and fibrous material, Apartment Unit Plaster. Layer 3 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		
APL 6	APL 6	White tabular and powdery material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		
APL 6	APL 6	Gray tabular and granular material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		
APL 7	APL 7	Brown fibrous and tabular material, Apartment Unit Plaster. Layer 1 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE		
APL 7	APL 7	White tabular and powdery material, Apartment Unit Plaster. Layer 2 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE		



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT			
Project Name:	9710 & 9	730 West Outer Drive/200532-0100			
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	Client P.O. #:	N/A		
Date Submitted	0/23/2020	$C \cap C \#$	N/A		

Date Submitted: 9/23/2020 Date Analyzed: 9/28-10/14/20 C.O.C. #:

N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
APL 7	APL 7	Gray tabular, cementitious and granular material, Apartment Unit Plaster. Layer 3 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
APL 8	APL 8	Cream and white paint material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
APL 8	APL 8	White tabular and granular material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
APL 9	APL 9	White tabular and powdery material, Apartment Unit Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
APL 9	APL 9	Gray tabular and granular material, Apartment Unit Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 1	UPL 1	White tabular and powdery material, Utility Room Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 1	UPL 1	Gray tabular and granular material, Utility Room Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT			
Project Name:	9710 &	9730 West Outer Drive/200532-0100			
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	Client P.O. #:	N/A		
Date Submitted	0/23/2020	$C \cap C \#$	NI/A		

 
 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20
 - C.O.C. #: \_\_\_\_\_ N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
UPL 2	UPL 2	White tabular and powdery material, Utility Room Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 2	UPL 2	Gray tabular and granular material, Utility Room Plaster. Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 3	UPL 3	Tan tabular and paint material, Utility Room Plaster. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 3	UPL 3	Tan and gray tabular and granular material, Utility Room Plaster. Layer 2 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 3	UPL 3	Brown fibrous material, Utility Room Plaster. Layer 3 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
UPL 4	UPL 4	White tabular and granular material, Utility Room Plaster. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 4	UPL 4	Brown fibrous material, Utility Room Plaster. Layer 2 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:		9710 & 9730 West Outer Drive/200532-0100		
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled:	9/1/2020	Client P.O. #:	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
UPL 4	UPL 4	Brown tabular and granular material, Utility Room Plaster, Layer 3 of 3.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
UPL 5	UPL 5	White tabular and granular material, Utility Room Plaster. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
UPL 5	UPL 5	Brown fibrous and tabular material, Utility Room Plaster Layer 2 of 2.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
UPL 6	UPL 6	White tabular and fibrous material, Utility Room Plaster, Layer 1 of 2.	Chrysotile 5%	Non-fibrous material >94% Cellulose fibers <1%	EE
UPL 6	UPL 6	Gray tabular and granular material, Utility Room Plaster. Layer 2 of 2.	Chrysotile 2%	Non-fibrous material >97% Cellulose fibers <1%	EE
DRW 1	DRW 1	White tabular, powdery and fibrous material, Drywall Board. Layer 1 of 2.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE
DRW 1	DRW 1	Brown tabular and fibrous material, Drywall Board. Layer 2 of 2.	NAD	Non-fibrous material <1% Cellulose fibers >99%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT
Project Name:	9710 & 9730 West Outer Drive/200532-0100
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

Date Sampled: 9/1/2020 9/23/2020 Date Submitted: Date Analyzed: 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
DRW 2	DRW 2	White paint material, Drywall Board. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
DRW 2	DRW 2	Brown tabular and fibrous material, Drywall Board. Layer 2 of 3.	NAD	Non-fibrous material <1% Cellulose fibers >99%	EE
DRW 2	DRW 2	White tabular, powdery and fibrous material, Drywall Board. Layer 3 of 3.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE
DRW 3	DRW 3	White tabular and paint material, Drywall Board. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
DRW 3	DRW 3	Brown fibrous and tabular material, Drywall Board. Layer 2 of 3.	NAD	Non-fibrous material <1% Cellulose fibers >99%	EE
DRW 3	DRW 3	White tabular, powdery and fibrous material, Drywall Board. Layer 3 of 3.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE
CWT 1	CWT 1	White tabular and powdery material, Ceramic Wall Tile (Entrances). Layer 1 of 3.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT	
Project Name:	9710 & 97	730 West Outer Drive/200532-0100	
Summary:	119 Submitted B	ulk Samples, 266 Sample Layers Ana	lyzed.
Dete Concelede	0/1/2020	Client D.O. H	<b>NT/A</b>

Date Sampled: 9/1/2020 Date Submitted: 9/23/2020 Date Analyzed: 9/28-10/14/20 Client P.O. #: N/A N/A C.O.C. #:

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
CWT 1	CWT 1	Tan tabular and fibrous material, Ceramic Wall Tile (Entrances). Layer 2 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
CWT 1	CWT 1	Tan tabular material, Ceramic Wall Tile (Entrances). Layer 3 of 3.	NAD	Non-fibrous material 98% Cellulose fibers 2%	EE
CWT 2	CWT 2	White tabular and powdery material, Ceramic Wall Tile (Entrances). Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
CWT 2	CWT 2	Tan tabular and fibrous material, Ceramic Wall Tile (Entrances). Layer 2 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
CWT 2	CWT 2	Tan tabular material, Ceramic Wall Tile (Entrances). Layer 3 of 3.	NAD	Non-fibrous material 98% Cellulose fibers 2%	EE
CWT 3	CWT 3	Red tabular and brick material, Ceramic Wall Tile (Entrances). Layer 1 of 2.	* NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
CWT 3	CWT 3	Gray tabular and powdery material, Ceramic Wall Tile (Entrances). Layer 2 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:	9'	710 & 9730 West Outer Drive/200532-0100		
Summary:	Summary: 119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled	0/1/2020	Client $P \cap \#$	NI/A	

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
MS-1	MS-1	Black asphaltic and mastic material, Mastic (Former 9x9 Tiles).	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
MS 2	MS 2	Black mastic and asphaltic material, Mastic (Former 9x9 Tiles).	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
MS 3	MS 3	Black mastic and asphaltic material, Mastic (Former 9x9 Tiles).	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
MS 4	MS 4	Black mastic and asphaltic material, Mastic (Former 9x9 Tiles).	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
MS 5	MS 5	Black mastic and asphaltic material, Mastic (Former 9x9 Tiles).	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
ST 1	ST 1	Brown and red tabular material, Stair Treads. Layer 1 of 2.	NAD	Non-fibrous material 90% Cellulose fibers 10%	EE
ST 1	ST 1	Tan fibrous material, Stair Treads. Layer 2 of 2.	NAD	Non-fibrous material 2% Cellulose fibers 98%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

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Client Name:		ECT	
Project Name:	9710 & 97	730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bu	ulk Samples, 266 Sample Layers Anal	yzed.
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Date Sampled: 9/1/2020 Date Submitted: 9/23/2020 9/28-10/14/20 Date Analyzed:

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
ST 2	ST 2	Red and brown tabular material, Stair Treads. Layer 1 of 3.	NAD	Non-fibrous material 90% Cellulose fibers 10%	EE
ST 2	ST 2	Gray tabular material, Stair Treads. Layer 2 of 3.	NAD	Non-fibrous material 90% Cellulose fibers 10%	EE
ST 2	ST 2	Tan fibrous material, Stair Treads. Layer 3 of 3.	NAD	Cellulose fibers 100%	EE
ST 3	ST 3	Red tabular material, Stair Treads. Layer 1 of 3.	NAD	Non-fibrous material 85% Cellulose fibers 15%	EE
ST 3	ST 3	Gray tabular, powdery and fibrous material, Stair Treads. Layer 2 of 3.	NAD	Non-fibrous material 85% Cellulose fibers 15%	EE
ST 3	ST 3	Tan fibrous material, Stair Treads. Layer 3 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
1FC 1	1FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:	9710 & 9730 West Outer Drive/200532-0100			
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.			
Date Sampled:	9/1/2020	Client P.O. #:	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

 Client P.O. #:
 N/A

 C.O.C. #:
 N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
1FC 1	1FC 1	White tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 57% Fibrous glass 3% Cellulose fibers 40%	EE
1FC 2	1FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
1FC 2	1FC 2	White tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 57% Fibrous glass 3% Cellulose fibers 40%	EE
1FC 3	1FC 3	White tabular and paint material, Vinyl Floor Covering. Layer 1 of 4.	NAD	Non-fibrous material 100%	EE
1FC 3	1FC 3	Tan fibrous material, Vinyl Floor Covering. Layer 2 of 4.	NAD	Non-fibrous material 1% Cellulose fibers 99%	EE
1FC 3	1FC 3	White and clear tabular material, Vinyl Floor Covering. Layer 3 of 4.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
1FC 3	1FC 3	White tabular, powdery and fibrous material, Vinyl Floor Covering. Layer 4 of 4.	NAD	Non-fibrous material 52% Cellulose fibers 45% Fibrous glass 3%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT	
Project Name:	9710 & 973	30 West Outer Drive/200532-0100	
Summary:	119 Submitted Bu	lk Samples, 266 Sample Layers Anal	lyzed.
	0/1/2020		<b>NT/A</b>

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

 Client P.O. #:
 N/A

 C.O.C. #:
 N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
2FC 1	2FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
2FC 1	2FC 1	White tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 45% Cellulose fibers 55%	EE
2FC 2	2FC 2	White and cream tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
2FC 2	2FC 2	White tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 35% Cellulose fibers 65%	EE
2FC 3	2FC 3	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
2FC 3	2FC 3	White tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
3FC 1	3FC 1	White tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		E	СТ		
Project Name:	9710 & 9730 West Outer Drive/200532-0100				
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.				
Date Sampled:	9/1/2020	8	Client P.O. #:	N/A	
Date Submitted:	9/23/2020		C.O.C. #:	N/A	-

9/28-10/14/20 Date Analyzed:

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
3FC 1	3FC 1	White tabular, powdery and fibrous material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
3FC 1	3FC 1	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 45% Cellulose fibers 55%	EE
3FC 2	3FC 2	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
3FC 2	3FC 2	Cream tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 2.	Chrysotile 80%	Non-fibrous material 15% Cellulose fibers 5%	EE
4FC 1	4FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
4FC 1	4FC 1	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE
4FC 2	4FC 2	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT	
Project Name:	9710 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.	

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
4FC 2	4FC 2	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE
4FC 3	4FC 3	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
4FC 3	4FC 3	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 35% Cellulose fibers 60% Fibrous glass 5%	EE
5FC 1	5FC 1	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material 94% Cellulose fibers 6%	EE
5FC 1	5FC 1	Gray fibrous material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Synthetic fibers 5% Cellulose fibers 95%	EE
5FC 2	5FC 2	Gray and white tabular material, Vinyl Floor Covering. Layer 1 of 4.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
5FC 2	5FC 2	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 4.	NAD	Non-fibrous material 27% Cellulose fibers 70% Fibrous glass 3%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT	
Project Name: 9710 & 9730 West Outer Drive/200532-0100			
Summary:	119 Submitted B	ulk Samples, 266 Sample Layers Anal	yzed.
Data Campledi	0/1/2020	Client D.O. #	NI/ A

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
5FC 2	5FC 2	Gray fibrous material, Vinyl Floor Covering. Layer 3 of 4.	NAD	Synthetic fibers 5% Cellulose fibers 95%	EE
5FC 2	5FC 2	Black tabular and mastic material, Vinyl Floor Covering. Layer 4 of 4.	NAD	Non-fibrous material 95% Cellulose fibers 5%	EE
5FC 3	5FC 3	White tabular material, Vinyl Floor Covering. Layer 1 of 4.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
5FC 3	5FC 3	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 4.	NAD	Non-fibrous material 32% Cellulose fibers 65% Fibrous glass 3%	EE
5FC 3	5FC 3	Gray fibrous material, Vinyl Floor Covering. Layer 3 of 4.	NAD	Cellulose fibers 97% Synthetic fibers 3%	EE
5FC 3	5FC 3	Brown tabular material, Vinyl Floor Covering. Layer 4 of 4.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE
6FC 1	6FC 1	White tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name: ECT 9710 & 9730 West Outer Drive/200532-0100 Project Name: Summary: 119 Submitted Bulk Samples, 266 Sample Layers Analyzed. Date Sampled: 9/1/2020 Client P.O. #: N/A Date Submitted: 9/23/2020

Date Analyzed: 9/28-10/14/20 C.O.C. #: N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
6FC 1	6FC 1	Gray tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 67% Fibrous glass 3%	EE
6FC 1	6FC 1	Tan mastic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE
6FC 2	6FC 2	White tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material 97% Cellulose fibers 2% Fibrous glass 1%	EE
6FC 2	6FC 2	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 67% Fibrous glass 3%	EE
6FC 2	6FC 2	Tan mastic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 96% Cellulose fibers 4%	EE
6FC 3	6FC 3	White tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE
6FC 3	6FC 3	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 67% Fibrous glass 3%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT
Project Name:	9710 & 9730 West Outer Drive/200532-0100
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	·
No.	No.	<b>Description</b> / Location	Asbestos Type	Portion	Analyst
6FC 3	6FC 3	Tan mastic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 92% Cellulose fibers 8%	EE
			NAD	Non-fibrous material >99%	EE
7FC 1	7FC 1	White tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Cellulose fibers <1%	EE
7FC 1	7FC 1	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 7% Cellulose fibers 90% Fibrous glass 3%	EE
7FC 2	7FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material 99% Cellulose fibers 1%	EE
7FC 2	7FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 7% Cellulose fibers 90% Fibrous glass 3%	EE
7FC 3	7FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering.	NAD	Non-fibrous material 7% Cellulose fibers 90% Fibrous glass 3%	EE
8FC 1	8FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

, inc.					
Client Name:		]	ECT		
Project Name:	97	'10 & 9730 West C	Outer Drive/200532-0100		
Summary:	119 Subr	nitted Bulk Sample	s, 266 Sample Layers Ana	lyzed.	
Date Sampled:	9/1/2020	: 8	Client P.O. #:	N/A	

Date Submitted: 9/23/2020 9/28-10/14/20 Date Analyzed:

N/A C.O.C. #:

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
8FC 1	8FC 1	White and gray tabular, powdery and fibrous material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 60% Synthetic fibers 5% Fibrous glass 5%	ËE
8FC 1	8FC 1	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 27% Cellulose fibers 70% Fibrous glass 3%	EE
8FC 2	8FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
8FC 2	8FC 2	White and gray tabular, powdery and fibrous material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 60% Synthetic fibers 5% Fibrous glass 5%	EE
8FC 2	8FC 2	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 27% Cellulose fibers 70% Fibrous glass 3%	EE
8FC 3	8FC 3	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
8FC 3	8FC 3	White and gray tabular, powdery and fibrous material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 30% Cellulose fibers 60% Synthetic fibers 5% Fibrous glass 5%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:		9710 & 9730 West Outer Drive/200532-0100		
Summary:	119 \$	Submitted Bulk Samples, 266 Sample Layers Anal	yzed.	
Date Sampled:	9/1/2020	Client P.O. #:	N/A	
Dute Sumpled.	5/1/2020			

Date Submitted: 9/23/2020 Date Analyzed: 9/28-10/14/20 C.O.C. #: N/A

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
8FC 3	8FC 3	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 27% Cellulose fibers 70% Fibrous glass 3%	EE
9FC 1	9FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
9FC 1	9FC 1	Tan tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
9FC 2	9FC 2	White paint and tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
9FC 2	9FC 2	Tan tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 1% Cellulose fibers 98% Fibrous glass 1%	EE
9FC 2	9FC 2	Brown tabular and mastic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE
9FC 3	9FC 3	Clear and white tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1

NVLAP Accreditation #101510-0

Client Name:	ECT	
Project Name:	9710 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.	

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
9FC 3	9FC 3	Tan tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 20% Cellulose fibers 80%	EE
10 FC 1	10 FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
10 FC 1	10 FC 1	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
10 FC 2	10 FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
10 FC 2	10 FC 2	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 20% Cellulose fibers 80%	EE
10 FC 3		White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
10 FC 3		Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 20% Cellulose fibers 80%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT		
Project Name:		9710 & 9730 West Outer Drive/200532-0100		
Summary:	119 S	ubmitted Bulk Samples, 266 Sample Layers Anal	lyzed.	
Date Sampled:	9/1/2020	Client P.O. #:	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description</b> / Location	Asbestos Type	Portion	Analyst
11 FC 1	11 FC 1	Clear and white tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
11 FC 1	11 FC 1	Tan tabular and fibrous material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 20% Cellulose fibers 80%	EE
11 FC 2	11 FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
11FC 2	11FC 2	Cream fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	<ul> <li>NAD</li> </ul>	Non-fibrous material 25% Cellulose fibers 75%	EE
11 FC 3	11 FC 3	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
11 FC 3	11 FC 3	Cream fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 75%	EE
12 FC 1	12 FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT
Project Name:	9710 & 9730 West Outer Drive/200532-0100
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
12 FC 1	12 FC 1	Cream fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
12 FC 1	12 FC 1	Brown tabular and mastic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 91% Cellulose fibers 9%	EE
12 FC 2	12 FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
12 FC 2	12 FC 2	Cream fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
12 FC 3	12 FC 3	Clear and white tabular material, Vinyl Floor Covering. Layer 1 of 2.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
12 FC 3	12 FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 2.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
13 FC 1	13 FC 1	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT	
Project Name:	9710 & 973	30 West Outer Drive/200532-0100	
Summary:	119 Submitted Bul	lk Samples, 266 Sample Layers Analy	yzed.
	0/1/2020		

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
13 FC 1	13 FC 1	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 18% Cellulose fibers 75% Fibrous glass 5% Synthetic fibers 2%	EE
13 FC 1	13 FC 1	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 10% Cellulose fibers 90%	EE
13 FC 2	13 FC 2	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
13 FC 2	13 FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 20% Cellulose fibers 70% Synthetic fibers 5% Fibrous glass 5%	EE
13 FC 2	13 FC 2	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 7% Cellulose fibers 90% Fibrous glass 3%	EE
13 FC 3	13 FC 3	White and clear tabular material, Vinyl Floor Covering. Layer 1 of 3.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
13 FC 3	13 FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer 2 of 3.	NAD	Non-fibrous material 20% Fibrous glass 5% Cellulose fibers 70% Synthetic fibers 5%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT
Project Name:	9710 & 9730 West Outer Drive/200532-0100
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

Date Sampled:	9/1/2020
Date Submitted:	9/23/2020
Date Analyzed:	9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
13 FC 3	13 FC 3	Black tabular, fibrous and asphaltic material, Vinyl Floor Covering. Layer 3 of 3.	NAD	Non-fibrous material 7% Cellulose fibers 90% Fibrous glass 3%	EE
14FC 1	14FC 1	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
14FC 1	14FC 1	Gray tabular and fibrous material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE
14FC 2	14FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
14FC 2	14FC 2	Gray tabular and fibrous material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE
14FC 3	14FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
14FC 3	14FC 3	Gray tabular and fibrous material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 30% Cellulose fibers 70%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

IC.					
Client Name:		J	ECT		
Project Name:		9710 & 9730 West C	Outer Drive/200532-0100		
Summary:	119 S	ubmitted Bulk Sample	s, 266 Sample Layers Ana	lyzed.	
Date Sampled:	9/1/2020	7	Client P.O. #:	N/A	

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
15FC 1	15FC 1	Clear and white tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
15FC 1	15FC 1	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 18% Cellulose fibers 80% Fibrous glass 2%	EE
15FC 2	15FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
15FC 2	15FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 18% Cellulose fibers 80% Fibrous glass 2%	EE
15FC 3	15FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
15FC 3	15FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 18% Cellulose fibers 80% Fibrous glass 2%	EE
16FC 1	16FC 1	White and clear tabular material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:	ECT
Project Name:	9710 & 9730 West Outer Drive/200532-0100
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

Date Sampled:	9/1/2020
Date Submitted:	9/23/2020
Date Analyzed:	9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description</b> / Location	Asbestos Type	Portion	Analyst
16FC 1	16FC 1	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 23% Cellulose fibers 75% Fibrous glass 2%	EE
16FC 2	16FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
16FC 2	16FC 2	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
16FC 3	16FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
16FC 3	16FC 3	Gray tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
17FC 1	17FC 1	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
17FC 1	17FC 1	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE



Fibertec IHS Project # 44028-1

NVLAP Accreditation #101510-0

Client Name:	ECT	
Project Name:	9710 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.	

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
17FC 1	17FC 1	White tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE
17FC 1	17FC 1	White fibrous material, Vinyl Floor Covering. Layer of .	NAD	Cellulose fibers 100%	EE
17FC 2	17FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
17FC 2	17FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
17FC 2	17FC 2	White tabular material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
17FC 2	17FC 2	White fibrous material, Vinyl Floor Covering. Layer of .	NAD	Cellulose fibers 100%	EE
17FC 3	17FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE

Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

 Client Name:
 ECT

 Project Name:
 9710 & 9730 West Outer Drive/200532-0100

 Summary:
 119 Submitted Bulk Samples, 266 Sample Layers Analyzed.

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Client P.O. #: N/A C.O.C. #: N/A

Sample	Client I.D.		52	Non-Asbestos-Containing	
No.	No.	Description / Location	Asbestos Type	Portion	Analyst
17FC 3	17FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
17FC 3	17FC 3	White tabular material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 100%	EE
17FC 3	17FC 3	White fibrous material, Vinyl Floor Covering. Layer of .	NAD	Cellulose fibers 100%	EE
18FC 1	18FC 1	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
18FC 1	18FC 1	Tan tabular, powdery and fibrous material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
18FC 1	18FC 1	Tan tabular and glue material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 95% Cellulose fibers 5%	EE
18FC 2	18FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE

Fibertec



Fibertec IHS Project # 44028-1

NVLAP Accreditation #101510-0

Client Name:	ECT	
Project Name:	9710 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submitted Bulk Samples, 266 Sample Layers Analyzed.	

 Date Sampled:
 9/1/2020

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
18FC 2	18FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
18FC 2	18FC 2	Tan tabular and glue material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material 95% Cellulose fibers 5%	EE
18FC 3	18FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
18FC 3	18FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of .	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
19FC 1	19FC 1	White and clear tabular material, Vinyl Floor Covering. Layer of.	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
19FC 1	19FC 1	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of. (Non- homogeneous)	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
19FC 1	19FC 1	Tan tabular and glue material, Vinyl Floor Covering. Layer of . (Non-homogeneous)	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE



Fibertec IHS Project # 44028-1 NVLAP Accreditation #101510-0

Client Name:		ECT	
Project Name:	971	0 & 9730 West Outer Drive/200532-0100	
Summary:	119 Submi	tted Bulk Samples, 266 Sample Layers Anal	yzed.
Date Sampled:	9/1/2020	Client P.O. #:	N/A

 Date Submitted:
 9/23/2020

 Date Analyzed:
 9/28-10/14/20

Sample	Client I.D.			Non-Asbestos-Containing	
No.	No.	<b>Description / Location</b>	Asbestos Type	Portion	Analyst
19FC 1	19FC 1	Brown fibrous and tabular material, Vinyl Floor Covering. Layer of. (Non-homogeneous)	NAD	Non-fibrous material 5% Cellulose fibers 90% Synthetic fibers 5%	EE
19FC 2	19FC 2	White and clear tabular material, Vinyl Floor Covering. Layer of . (Non-homogeneous)	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
19FC 2	19FC 2	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of. (Non- homogeneous)	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE
19FC 2	19FC 2	Tan glue and tabular material, Vinyl Floor Covering. Layer of . (Non-homogeneous)	NAD	Non-fibrous material 97% Cellulose fibers 3%	EE
19FC 2	19FC 2	Brown tabular and fibrous material, Vinyl Floor Covering. Layer of. (Non-homogeneous)	NAD	Non-fibrous material 5% Cellulose fibers 90% Synthetic fibers 5%	EE
19FC 3	19FC 3	White and clear tabular material, Vinyl Floor Covering. Layer of. (Non-homogeneous)	NAD	Non-fibrous material >99% Cellulose fibers <1%	EE
19FC 3	19FC 3	Tan tabular, fibrous and powdery material, Vinyl Floor Covering. Layer of. (Non- homogeneous)	NAD	Non-fibrous material 25% Cellulose fibers 70% Fibrous glass 5%	EE



#### **Comments**

Bulk samples were analyzed using the USEPA Test Method EPA/600/R-93/116: Method for Determination of Asbestos in Bulk Building Materials and EPA-40 CFR Appendix E to Subpart 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples. The constituent percent reported represents an estimate of the area percent of the component. The test report relates only to items tested. This report is not intended to be used as a product endorsement by NVLAP or any agency of the U.S. Government. This report shall not be reproduced, except in full, without the written approval of the laboratory. Individual sample layers are homogeneous, unless otherwise noted.

If no asbestos was detected in a sample the acronym NAD (no asbestos detected) will appear in the Asbestos Type column of the report.

Fine fibers like those in floor tile may not be discernible by this method.

Factors related to measurement uncertainty have been identified and are available up request.

Test items were received in acceptable condition unless otherwise noted. Revision 5.0 dated 08/27/19.

Approved Signatory: <u>*flully, GRtb*</u> Date: <u>10/15/20</u>

ibertec	nvironmental	services
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 Analytical Laboratory

 1914 Holloway Drive
 8660 S. Mackinaw Trail

 Holt, MI
 48842
 Cadillac, MI
 49601

 Phone: 517
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 0345
 Phone: 231
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 8368

 Fax: 517
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 Fax: 231
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 8584

Industrial Hygiene Services, Inc. 1914 Holloway Drive Hott, MI 48842 Phone: 517 699 0345 Fax: 517 699 0382

Geoprobe 11766 E. Grand River Rd. Brighton, MI 48116 Phone: 810 220 3300 Fax: 810 220 3311

PAGE 1 of 4

Chain of Custody #

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Fax: 810 220 3311	Matrix Code Deliverables	S Soil Gw Ground Water	A Air Sw Surface Water O Oil ww Woste Worter	P Wipe X Other: Specify	Z X = Building Materials		Remarks:	Roof Asphalt Shingles	Flat Roof Covering	Black Window Caulk	White Window Caulk	Window Pane Glaze	Attic Insulation	9710 Duct Wrap (confirmation)	9710 Pipe Joints (confirmation)	9710 Pipe Wrap (confirmation)	9730 Pipe Joints (confirmation)		K	Edu 09128/20 16:49		LAB USE ONLY	Fibertec project number:	Temperature upon receipt at Lab:
Fax: 517 699 0382 Fa: email: asbestos@fibertecihs.com	PARAMETERS							7 <b>V</b>	5 V	2	5 🗸		6	2 🖌 📔 📕		2 🗸 📔	2 1		el Time Received By:	Date/ Time II: DDA. Received By: Crub	Time Received By Laboratory:	OF THE BUSINESS DAY	_4 bus. days	
Fax: 517 699 0388         Fax: 231 775 8584           LULD22-/         email: lab@fibertec.us	Cient Name: Environmental Consulting&Tech. (ECT)-Detroit	Contact Person: Maura Gibbons	Project Name/ Number: #200532-0100 9710 & 9730 West Outer Drive	Email distribution list mgibbons@ectinc.com		Purchase Order#	Time Sample # Client Sample Descriptor	RAS-1 thru -7 X	FLR-1 thru -5 X	BWC-1 thru -5	X X X X X X X X X X X X X X X X X X X	WPG-1 thru -7 X	AIN-1 thru -9 X	T10DW-1 thru-2	10PJ-1 thru -2 X	10PW-1 thru -2 X	30PJ-1 thru -2 X	ents: Run all Layers. Stop at First Positive.	Sampled/Relinquished are M DAMA	bate bate	Relinquished By: Date/ Time	<u>Turnground Time</u> ALL RESULTS WILL BE SENT BY THE END OF THE BU	.1 bus. day2 bus. days3 bus. days	5-7 bus. days (standard) Other (specify time/date requirement):
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 Analytical Laboratory

 1914 Holloway Drive
 8660 S. Mackinaw Trail

 Hott, MI
 48842
 Cadillac, MI
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 Phone: 517
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Geoprobe 11766 E. Grand River Rd. Brighton, MI 48116 Phone: 810 220 3300 Fax: 810 220 3311

PAGE 2 of 4

Chain of Custody #

Fax: 810 220 3311	Matrix Code Deliverables	Soil Cw Ground Water	A Air Sw Surface Water O Oit www Water Water	Wipe x Other: Specify	X = Building Materials		Remarks:	9730 Pipe Wrap (confirmation)	Apartment Unit Plaster	Utility Room Plaster	Drywall Board	Ceramic Wall Tile (Entrances)	Mastic (Former 9x9 Tiles)	Stair Treads	Vinyl Floor Covering	Vinyl Floor Covering	Vinyl Floor Covering		driver.	Received By Cit Etus 08/1/20 1/1.Cr		LAB USE ONLY	Fibertec project number:	Temperature upon receipt at Lab:
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rax. 231 979 000 email: lab@fibertec.us	Cient Name: Environmental Consulting&Tech. (ECT)-Detroit	suc	Vest Outer Drive	mgibbons@ectinc.com			Client Sample Descriptor	30PW-1 thru -2	APL-1 thru -9 X	UPL-1 thru -7 X	DRW-1 thru -3	CWT-1 thru -3	MS-1 thru -5 X	ST-1 thru -3 X	1FC-1 thru -3 X	2FC-1 thru -3	3FC-1 thru -3	Run all Layers. Stop at First Positive.				Turnaround Time ALL RESULTS WILL BE SENT BY THE END OF THE BUSINESS DAY	2 bus. days3 bus. days	Other (specify time/date requirement):
8-1	<sub>™</sub> : Environmenta	Contact Person: Maura Gibbons	Project Name/ Number: #200532-0100 9710 & 9730 V	oution list: mgibbons		Drder#	Time Sample #												Sampled/Relinquished By:	Buttera	ed By:	12	1 bus. day2 t	5-7 bus. days (standard)
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Fibertec environmental services	
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Analytical Laboratory 1914 Holloway Drive 8660 S. Mackinaw Trail Holt, MI 48842 Cadillac, MI 49601 Phone: 517 699 0345 Phone: 231 775 8584 Fax: 517 699 0388 Fax: 231 775 8584

Industrial Hyglene Services, Inc. 1914 Holloway Drive Holt, M1 48842 Phone: 517 699 0345 Fax: 517 699 0382 email: asbestos@fibertecihs.com

Geoprobe 11766 E. Grand River Rd. Brighton, MI 48116 Phone: 810 220 3300 Fax: 810 220 3311

PAGE 3 of 4

Chain of Custody #

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Client Name: En	vironr	nenta	I Consulting&Te	Client Name: Environmental Consulting&Tech. (ECT)-Detroit			14	PARAMETERS	1	Matrix Code	Datasatila
Contact Person: Maura Gibbons	Maura	Gibb(	ons						0		
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Analytical Laboratory 1914 Holloway Drive 8660 S. Mackinaw Trail Holt, MI 48842 Cadillac, MI 49601 Phone: 517 699 0345 Phone: 231 775 8584 Fax: 517 699 0388 Fax: 231 775 8584

Industrial Hygiene Services, Inc. 1914 Holloway Drive Hott, MI 48842 Phone: 517 699 0345 Fax: 517 699 0382 email: asbestos@fibertecihs.com

Geoprobe 11766 E. Grand River Rd. Brighton, MI 48116 Phone: 810 220 3311 Fax: 810 220 3311

PAGE 4 of 4

Chain of Custody #

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# **MICHIGAN - EPA Map of Radon Zones**

http://www.epa.gov/radon/zonemap.html

The purpose of this map is to assist National, State and local organizations to target their resources and to implement radon-resistant building codes.

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BARAGA

IRON

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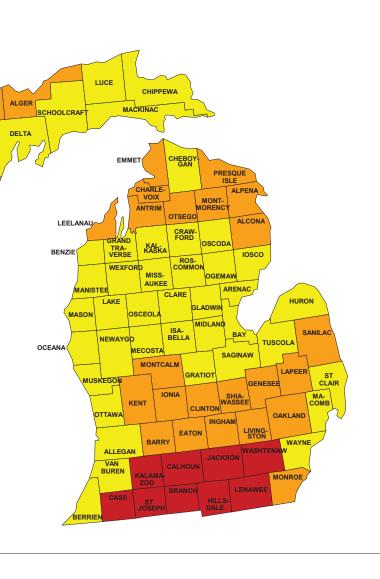
GOGEBIC

This map is not intended to determine if a home in a given zone should be tested for radon. Homes with elevated levels of radon have been found in all three zones.

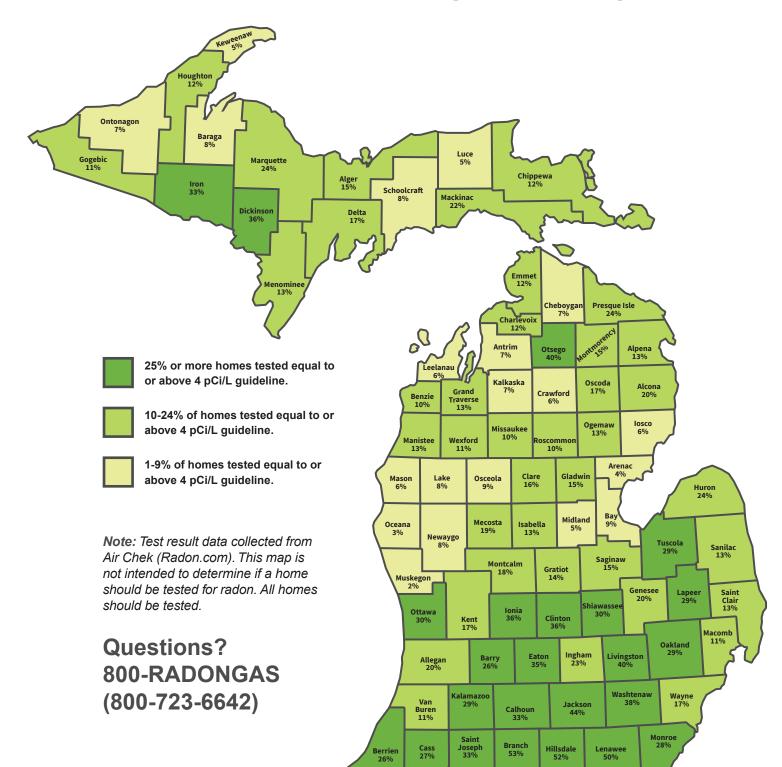
All homes should be tested, regardless of zone designation.

**IMPORTANT:** Consult the publication entitled "Preliminary Geologic Radon Potential Assessment of Michigan" (USGS Open-file Report 93-292-E) before using this map. http://energy.cr.usgs.gov/radon/grpinfo.html This document contains information on radon potential variations within counties. EPA also recommends that this map be supplemented with any available local data in order to further understand and predict the radon potential of a specific area.





# Percentage of Elevated Radon Test Results by County





800-662-9278 | Michigan.gov/radon



# United States Department of the Interior

FISH AND WILDLIFE SERVICE Michigan Ecological Services Field Office 2651 Coolidge Road Suite 101 East Lansing, MI 48823-6360 Phone: (517) 351-2555 Fax: (517) 351-1443 http://www.fws.gov/midwest/EastLansing/



March 17, 2022

In Reply Refer To: Project code: 2022-0020871 Project Name: Outer Drive and Minnock Properties

Subject: Consistency letter for 'Outer Drive and Minnock Properties' for threatened and endangered species that may occur in your proposed project location consistent with the Michigan Endangered Species Determination Key (Michigan DKey)

Dear Jeremiah Roth:

The U.S. Fish and Wildlife Service (Service) received on **March 17, 2022** your effect determination(s) for the 'Outer Drive and Minnock Properties' (the Action) using the Michigan DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat. 884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Michigan DKey, you determined the proposed Action will have "No Effect" on the following species.

Species	Listing Status	Determination
Eastern Massasauga (=rattlesnake) (Sistrurus catenatus)	Threatened	No effect
Eastern Prairie Fringed Orchid (Platanthera	Threatened	No effect
leucophaea)		
Indiana Bat ( <i>Myotis sodalis</i> )	Endangered	No effect
Northern Long-eared Bat (Myotis septentrionalis)	Threatened	No effect
Northern Riffleshell ( <i>Epioblasma torulosa rangiana</i> )	Endangered	No effect
Piping Plover (Charadrius melodus)	Endangered	No effect
Red Knot (Calidris canutus rufa)	Threatened	No effect

Your agency has met consultation requirements for these species by informing the Service of the "No Effect" determinations. Please email a copy of this letter to MIFO\_Dkey@fws.gov for our record keeping (include "No Effect for Project Name" in the subject line).

For non-Federal representatives: Please note that when a project requires consultation under section 7 of the Act, the Service must consult directly with the Federal action agency unless that

agency formally designates a non-Federal representative (50 CFR 402.08). Non-Federal representatives may prepare analyses or conduct informal consultations; however, the ultimate responsibility for section 7 compliance under the Act remains with the Federal agency. If the Federal agency concurs with your determination, the project as proposed has completed section 7 consultation. All documents and supporting correspondence should be provided to the Federal agency for their records.

Please provide sufficient project details on your project homepage in IPaC (Define Project, Project Description) to support your conclusions. Failure to disclose important aspects of your project that would influence the outcome of your effects determinations may negate your determinations and invalidate this letter. If you have site-specific information that leads you to believe a different determination is more appropriate for your project than what the Dkey concludes, you can and should proceed based on the best available information.

The Service recommends that you contact the Service or re-evaluate the project in IPaC if: 1) the scope or location of the proposed Action is changed; 2) new information reveals that the action may affect listed species or designated critical habitat in a manner or to an extent not previously considered; 3) the Action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project changes are final or resources committed.

#### **Bald and Golden Eagles:**

Bald eagles, golden eagles, and their nests are protected under the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d) (Eagle Act). The Eagle Act prohibits, except when authorized by an Eagle Act permit, the "taking" of bald and golden eagles and defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." The Eagle Act's implementing regulations define disturb as "…to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior."

If the Action may impact bald or golden eagles, additional coordination with the Service under the Eagle Act may be required. For more information on eagles and conducting activities in the vicinity of an eagle nest, please visit https://www.fws.gov/midwest/eagle/. In addition, the Service developed the National Bald Eagle Management Guidelines (May 2007) in order to assist landowners in avoiding the disturbance of bald eagles. The full Guidelines are available at http://www.fws.gov/midwest/eagle/pdf/NationalBaldEagleManagementGuidelines.pdf.

If you have further questions regarding potential impacts to eagles, please contact Chris Mensing, Chris\_Mensing@fws.gov or 517-351-2555.

#### Wetland impacts:

Section 404 of the Clean Water Act of 1977 (CWA) regulates the discharge of dredged or fill material into waters (including wetlands) of the United States. Regulations require that activities permitted under the CWA (including wetland permits issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE)) not jeopardize the continued existence of

species listed as endangered or threatened. Permits issued by the U.S. Army Corps of Engineers must also consider effects to listed species pursuant to section 7 of the Endangered Species Act. The Service provides comments to the agencies that may include permit conditions to help avoid or minimize impacts to wildlife resources including listed species. For this project, we consider the conservation measures you agreed to in the determination key and/or as part of your proposed action to be non-discretionary. If you apply for a wetland permit, these conservation measures should be explicitly incorporated as permit conditions. Include a copy of this letter in your wetland permit application to streamline the threatened and endangered species review process.

# **Action Description**

You provided to IPaC the following name and description for the subject Action.

# 1. Name

Outer Drive and Minnock Properties

# 2. Description

The following description was provided for the project 'Outer Drive and Minnock Properties':

9710-9730 West Outer Drive, Detroit, MI. The project is proposed for residential development.

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/</u> <u>maps/@42.4052799,-83.23343320751849,14z</u>



# **Qualification Interview**

1. This determination key is intended to assist the user in the evaluating the effects of their actions on Federally listed species in Michigan. It does not cover other prohibited activities under the Endangered Species Act (e.g., for wildlife: import/export, Interstate or foreign commerce, possession of illegally taken wildlife, purposeful take for scientific purposes or to enhance the survival of a species, etc.; for plants: import/export, reduce to possession, malicious destruction on Federal lands, commercial sale, etc.) or other statutes. Click yes to acknowledge that you must consider other prohibitions of the ESA or other statutes outside of this determination key.

Yes

2. Is the action the approval of a long-term (i.e., in effect greater than 10 years) permit, plan, or other action?

No

- 3. Is the action being funded, authorized, or carried out by a Federal agency? *Yes*
- 4. Does the action involve the installation or operation of wind turbines?

No

5. Does the action involve purposeful take of a listed animal?

No

- 6. Does the action involve a new communication tower? *No*
- 7. Does the activity involve aerial or other large-scale application of any chemical (including insecticide, herbicide, etc.)?

No

- 8. Will your action permanently affect local hydrology by impacting 1/2 acre or more of wetland; or by increasing or decreasing groundwater or surfacewater elevations? No
- 9. Will your action temporarily affect local hydrology by impacting 1/2 acre or more of wetland; or by increasing or decreasing groundwater or surfacewater elevations? No
- 10. Will your project have any direct impacts to a stream or river (e.g., Horizontal Directional Drilling (HDD), hydrostatic testing, stream/road crossings, new storm-water outfall discharge, dams, other in-stream work, etc.)?

No

11. Does your project have the potential to indirectly impact the stream/river or the riparian zone (e.g., cut and fill, horizontal directional drilling, hydrostatic testing, construction, vegetation removal, discharge, etc.)?

No

12. Will your action disturb the ground or existing vegetation? This includes any off road vehicle access, soil compaction, digging, seismic survey, directional drilling, heavy equipment, grading, trenching, placement of fill, pesticide application, vegetation management (including removal or maintenance using equipment or chemicals), cultivation, development, etc.

No

13. Does your action area occur entirely within an already developed area with no natural habitat or trees present? For the purposes of this question, "already developed areas" are already paved, covered by existing structures, manicured lawns, industrial sites, or cultivated cropland, AND do not contain trees that could be roosting habitat. Be aware that listed species may occur in areas with natural, or semi-natural, vegetation immediately adjacent to existing utilities (e.g. roadways, railways) or within utility rights-of-way such as overhead transmission line corridors, and can utilize suitable trees, bridges, or culverts for roosting even in urban dominated landscapes (so these are NOT considered "already developed areas" for the purposes of this question).

Yes

14. Does the action have potential indirect effects to listed species or the habitats they depend on (e.g., water discharge into adjacent habitat or waterbody, changes in groundwater elevation, introduction of an exotic plant species)?

No

- 15. [Hidden Semantic] Does the action area intersect the Indiana bat AOI?Automatically answeredYes
- 16. Federally listed bats infrequently use anthropogenic structures for roosting, such as buildings, barns, sheds, and bat boxes. Are bats known to be roosting in a structure that occurs within your action area?

No

17. [Hidden Semantic] Does the action intersect the Eastern massasauga rattlesnake area of influence?

Automatically answered Yes

- [Semantic] Does the action area intersect the northern riffelshell area of influence? Automatically answered Yes
- 19. [Hidden Semantic] Does the action area intersect the piping plover area of influence? Automatically answered Yes
- 20. [Hidden Semantic] Does the action area intersect the rufa red knot area of influence? Automatically answered *Yes*

21. [Hidden Semantic] Does the action area intersect the area of influence for Eastern prairie fringed orchid?

Automatically answered Yes

22. [Hidden Semantic] Does the action area intersect the Indiana bat area of influence? Automatically answered Vac

Yes

23. [Hidden Semantic] Does this project intersect the northern long-eared bat area of influence?

Automatically answered Yes

# **IPaC User Contact Information**

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# Michigan Federally-listed Endangered and Threatened Species

Updated October 2018

Piping plover

(Chradrius melodus)

SPECIES	STATUS	COUNTIES	НАВІТАТ
MAMMALS			
Canada lynx (Lynx canadensis)	Threatened	<b>Current distribution:</b> A Canada lynx was recently documented in the Upper Peninsula. The counties listed here have the highest potential for Lynx presence: Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft.	Northern forests
Gray wolf Canis lupus	Endangered	Alger, Baraga, Chippewa, Delta, Dickinson, Gogebic, Houghton, Iron, Keweenaw, Luce, Mackinac, Marquette, Menominee, Ontonagon, Schoolcraft	Northern forested areas
Indiana bat <i>(Myotis sodalis)</i>	Endangered	Allegan, Barry, Bay, Benzie, Berrien, Branch, Calhoun, Cass, Clinton, Eaton, Genesee, Gratiot, Hillsdale, Ingham, Ionia, Jackson, Kalamazoo, Kent, Lapeer, Leelanau, Lenawee, Livingston, Macomb, Manistee, Mason, Monroe, Montcalm, Muskegon, Oakland, Oceana, Ottawa, Saginaw, St. Joseph, Sanilac, Shiawassee, St. Clair, Tuscola, Van Buren, Washtenaw, and Wayne	Summer habitat includes small to medium river and stream corridors with well developed riparian woods; woodlots within 1 to 3 miles of small to medium rivers and streams; and upland forests. Caves and mines as hibernacula.
Northern long-eared bat Myotis septentrionalis	Threatened	Statewide	Hibernates in caves and mines - swarming in surrounding wooded areas in autumn. Roosts and forages in upland forests during spring and summer.
BIRDS			
Kirtland's warbler Setophaga kirtlandii	Endangered	Alcona, Alger, Antrim, Baraga, Chippewa, Clare, Crawford, Delta, Grand Traverse, Iosco, Kalkaska, Luce, Marquette, Montmorency, Ogemaw, Oscoda, Otsego, Presque Isle, Roscommon, Schoolcraft	Breeding in young jack pine
Piping plover (Chradrius melodus)	Endangered	Alger, Alpena, Benzie, Berrien, Charlevoix, Cheboygan, Chippewa, Delta, Emmet, Leelanau, Luce, Mackinac,	Beaches along shorelines of the Great Lakes

Manistee, Mason, Muskegon, Presque Isle,

Muskegon, Presque Isle, Schoolcraft

Alger, Benzie, Charlevoix, Cheboygan, Chippewa,

Emmet, Iosco, Leelanau, Luce, Mackinac, Mason,

Beaches along shorelines of

the Great Lakes

Schoolcraft

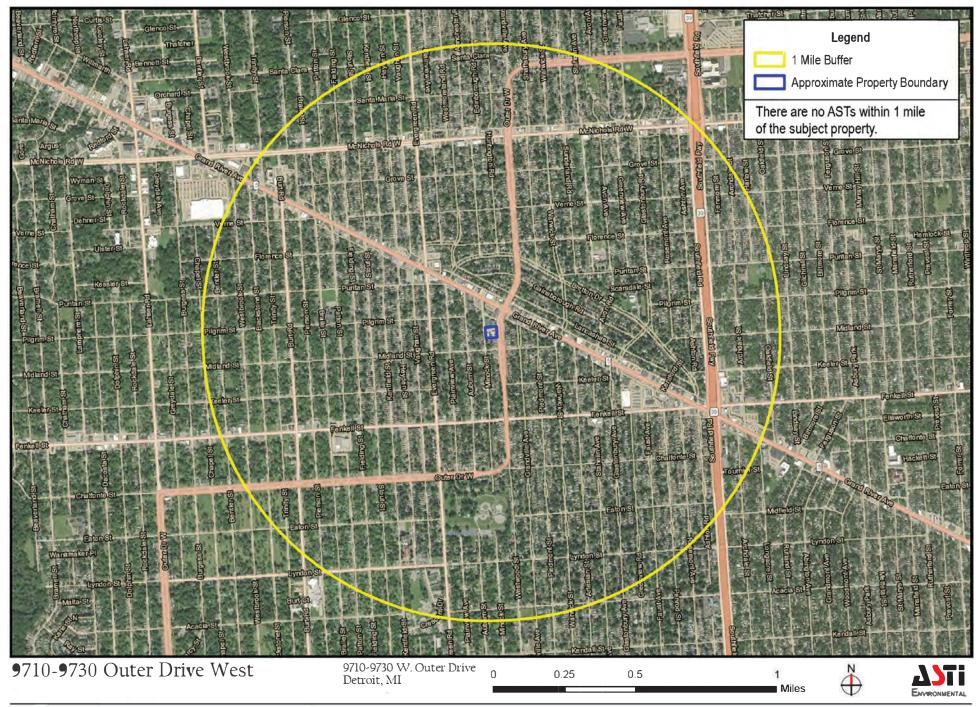
Critical

Habitat

SPECIES	STATUS	COUNTIES	НАВІТАТ	
Rufa Red knot (Calidris canutus rufa)	Threatened	<ul> <li>Only actions that occur along coastal areas during the Red Knot migratory window of MAY 1 - SEPTEMBER 30 for the following counties:</li> <li>Alcona, Alger, Allegan, Alpena, Antrim, Arenac, Baraga, Bay, Benzie, Berrien, Charlevoix, Cheboygan, Chippewa, Delta, Emmet, Gogebic, Grand Traverse, Houghton, Huron, Iosco, Keweenaw, Leelanau, Luce, Mackinac, Macomb, Manistee, Marquette, Mason, Menominee, Monroe, Muskegon, Oceana, Ontonagon, Ottawa, Presque Isle, Sanilac, Schoolcraft, St. Clair, Tuscola, Van Buren, Wayne</li> <li>Only actions that occur in large wetland complexes during the Red knot migratory window of MAY 1 - SEPTEMBER 30 for the following counties:</li> </ul>	Coastal areas and large wetland complexes	
Whooping crane ** (Grus americanus)	Non-essential experimental population	Midland, Saginaw, Shiawassee Allegan, Barry, Berrien, Jackson, Kent, Lenawee, Macomb, Oceana, Ottawa	Open wetlands and lakeshores	
REPTILES				
Copperbelly water snake (Nerodia erythrogaster neglecta)	Threatened	Branch, Calhoun, Cass, Eaton, Hillsdale, St. Joseph	Wooded and permanently wet areas such as oxbows, sloughs, brushy ditches and floodplain woods	
Eastern massasauga (Sistrurus catenatus)	Threatened	Alcona, Allegan, Alpena, Antrim, Arenac, Barry, Berrien, Branch, Calhoun, Cass, Cheboygan, Clare, Clinton, Crawford, Eaton, Emmett, Genesee, Grand Traverse, Hillsdale, Huron, Ingham, Ionia, Iosco, Jackson, Kalamazoo, Kalkaska, Kent, Lake, Lapeer, Lenawee, Livingston, Mackinac, Macomb, Manistee, Mason, Missaukee, Montcalm, Montmorency, Muskegon, Newaygo, Oakland, Oscoda, Presque Isle, Saginaw, St. Joseph, Shiawassee, Van Buren, Washtenaw, Wayne	Graminoid dominated plant communities (fens, sedge meadows, peatlands, wet prairies) open woodlands and shrublands	
INSECTS		·		
Hine's emerald dragonfly (Somatochlora hineana)	Endangered	Alcona, Alpena, Mackinac, Menominee, Presque Isle	Spring fed wetlands, wet meadows and marshes; calcareous streams & associated wetlands overlying dolomite bedrock	
Hungerford's crawling water beetle (Brychius hungerfordi)	Endangered	Charlevoix, Cheboygan, Crawford, Emmet, Montmorency, Oscoda, Otsego, Presque Isle	Cool riffles of clean, slightly alkaline streams; known to occur in five streams in northern Michigan.	
Karner blue butterfly (Lycaeides melissa samuelis)	Endangered	Allegan, Ionia, Kent, Lake, Mason, Mecosta, Monroe, Montcalm, Muskegon, Newaygo, Oceana	Pine barrens and oak savannas on sandy soils and containing wild lupines (Lupinus perennis), the only known food plant of larvae.	
Mitchell's satyr (Neonympha mitchellii mitchellii)	Endangered	Barry, Berrien, Branch, Cass, Jackson, Kalamazoo, St. Joseph, Van Buren, Washtenaw	Fens; wetlands characterized by calcareous soils which are fed by carbonate-rich water from seeps and springs	

SPECIES	STATUS	COUNTIES	НАВІТАТ
Poweshiek skipperling (Oarisma poweshiek)	Endangered Critical Habitat	Hillsdale, Jackson, Lenawee, Livingston, Oakland, and Washtenaw Maps of proposed critical habitat in Michigan at www.fws.gov/midwest/endangered/insects/posk/fC Hmaps/poskchMl.pdf	Wet prairie and fens
MUSSELS			
Clubshell (Pleurobema clava)	Endangered	Hillsdale	Found in coarse sand and gravel areas of runs and riffles within streams and small rivers
Northern riffleshell (Epioblasma torulosa rangiana)	Endangered	Monroe, Sanilac, Wayne	Large streams and small rivers in firm sand of riffle areas; also occurs in Lake Erie
Rayed Bean ( <i>Villosa fabalis</i> )	Endangered	Oakland, St. Clair	Belle, Black, Clinton and Pine Rivers
Snuffbox (Epioblasma triquetra)	Endangered	Gratiot, Ionia, Kent, Livingston, Oakland, St. Clair, Washtenaw	Small to medium-sized creeks in areas with a swift current and some larger rivers
PLANTS			
American hart's tongue fern (Asplenium scolopendrium var. americanun = Phyllitis japonica ssp. a.)	Threatened	Chippewa, Mackinac	Cool limestone sinkholes in mature hardwood forest
Dwarf lake iris (Iris lacustris)	Threatened	Alpena, Charlevoix, Cheboygan, Chippewa, Delta, Emmet, Mackinac, Menominee, Presque Isle, Schoolcraft	Partially shaded sandy- gravelly soils on lakeshores
Eastern prairie fringed orchid (Plantathera leucophaea)	Threatened	Bay, Cheboygan, Clinton, Eaton, Genesee, Gratiot, Huron, Livingston, Monroe, Saginaw, St. Clair, St. Joseph, Tuscola, Washtenaw, Wayne	Mesic to wet prairies and meadows
Houghton's goldenrod (Solidago houghtonii)	Threatened	Charlevoix, Cheboygan, Chippewa, Crawford, Emmet, Kalkaska, Mackinac, Presque Isle, Schoolcraft	Sandy flats along Great Lakes shores
Lakeside daisy (Hymenoxy acaulis var. glabra)	Threatened	Mackinac	Dry, rocky prairie grassland underlain by limestone
Michigan monkey-flower (Mimulus michiganesis)	Endangered	Benzie, Charlevoix, Cheboygan, Emmet, Leelanau, Mackinac	Soils saturated with cold flowing spring water; found along seepages, streams and lakeshores
Pitcher's thistle (Cirsium pitcheri)	Threatened	Alcona, Alger, Allegan, Alpena, Antrim, Arenac, Benzie, Berrien, Charlevoix, Cheboygan, Chippewa, Delta, Emmet, Grand Traverse, Huron, Iosco, Leelanau, Mackinac, Manistee, Mason, Muskegon, Oceana, Ottawa, Presque Isle, Schoolcraft, Van Buren	Stabilized dunes and blowout areas

SPECIES	STATUS	COUNTIES	НАВІТАТ
Small whorled pogonia	Threatened	Berrien	Dry woodland; upland sites in
(Isotria medeoloides)			mixed forests (second or third
			growth stage)





United States Department of Agriculture



Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

# Custom Soil Resource Report for Wayne County, Michigan



# Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/? cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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# **How Soil Surveys Are Made**

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

# Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



	MAP LEGEND			MAP INFORMATION	
Area of In	terest (AOI)	333	Spoil Area	The soil surveys that comprise your AOI were mapped at	
	Area of Interest (AOI)	٥	Stony Spot	1:12,000.	
Soils	Soil Map Unit Polygons	۵	Very Stony Spot	Warning: Soil Map may not be valid at this scale.	
~	Soil Map Unit Lines	\$	Wet Spot	Enlargement of maps beyond the scale of mapping can cause	
	Soil Map Unit Points	$\bigtriangleup$	Other	misunderstanding of the detail of mapping and accuracy of soil	
_	Special Point Features		Special Line Features	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed	
6	Blowout	Water Features		scale.	
	Borrow Pit	$\sim$	Streams and Canals		
*	Clay Spot	Transport	t <b>ation</b> Rails	Please rely on the bar scale on each map sheet for map measurements.	
0	Closed Depression	++++			
×	~	~	Interstate Highways US Routes	Source of Map: Natural Resources Conservation Service Web Soil Survey URL:	
000	Gravelly Spot	~	Major Roads	Coordinate System: Web Mercator (EPSG:3857)	
Ø	Landfill		Local Roads	Maps from the Web Soil Survey are based on the Web Mercator	
Ă.	Lava Flow			projection, which preserves direction and shape but distorts	
عاد	Marsh or swamp	Backgrou	Aerial Photography	distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more	
2	Mine or Quarry			accurate calculations of distance or area are required.	
0	Miscellaneous Water			This product is generated from the USDA-NRCS certified da	
õ	Perennial Water			of the version date(s) listed below.	
v	Rock Outcrop			Soil Survey Area: Wayne County, Michigan	
+	Saline Spot			Survey Area Data: Version 7, Sep 7, 2021	
	Sandy Spot			Soil map units are labeled (as space allows) for map scales	
-	Severely Eroded Spot			1:50,000 or larger.	
0	Sinkhole			Date(s) aerial images were photographed: Aug 5, 2020—Aug	
š	Slide or Slip			12, 2020	
ø	Sodic Spot			The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.	

# **Map Unit Legend**

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KibuaB	Kibbie-Urban land complex, 0 to 4 percent slopes	0.1	12.2%
KibueB	Kibbie-Urban land-Colwood complex, sandy substratum, 0 to 4 percent slopes	0.9	87.8%
Totals for Area of Interest		1.1	100.0%

# **Map Unit Descriptions**

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the

development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

# Wayne County, Michigan

# KibuaB—Kibbie-Urban land complex, 0 to 4 percent slopes

## **Map Unit Setting**

National map unit symbol: 2tx7r Elevation: 580 to 640 feet Mean annual precipitation: 28 to 38 inches Mean annual air temperature: 45 to 52 degrees F Frost-free period: 135 to 210 days Farmland classification: Not prime farmland

## **Map Unit Composition**

*Kibbie, human transported surface, and similar soils:* 50 percent *Urban land:* 35 percent *Minor components:* 15 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

## Description of Kibbie, Human Transported Surface

#### Setting

Landform: Lakebeds (relict), deltas Down-slope shape: Linear Across-slope shape: Linear, convex Parent material: Loamy human-transported material over loamy glaciolacustrine deposits

## **Typical profile**

 $^{A}$ *u* - 0 to 9 inches: sandy loam  $^{C}$ *u* - 9 to 12 inches: loam *Bwb* - 12 to 36 inches: silty clay loam *C* - 36 to 80 inches: silt loam

## **Properties and qualities**

Slope: 0 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 30 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 42 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 11.9 inches)

## Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Ecological site: F099XY007MI - Lake Plain Flats Hydric soil rating: No

#### **Description of Urban Land**

#### **Properties and qualities**

Slope: 0 to 1 percent Depth to restrictive feature: 0 inches to manufactured layer Runoff class: High Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Hydric soil rating: No

#### Minor Components

#### Colwood, human transported surface

Percent of map unit: 7 percent Landform: Deltas, lakebeds (relict) Microfeatures of landform position: Open depressions Down-slope shape: Linear, concave Across-slope shape: Convex, linear Hydric soil rating: No

#### Anthroportic udorthents

Percent of map unit: 5 percent Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear Hydric soil rating: No

#### Rapson, human transported surface

Percent of map unit: 2 percent Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear Hydric soil rating: No

#### Freesoil, human transported surface

Percent of map unit: 1 percent Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear Hydric soil rating: No

# KibueB—Kibbie-Urban land-Colwood complex, sandy substratum, 0 to 4 percent slopes

#### **Map Unit Setting**

National map unit symbol: 2v14k Elevation: 600 to 640 feet Mean annual precipitation: 28 to 38 inches Mean annual air temperature: 45 to 52 degrees F Frost-free period: 135 to 210 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

*Kibbie, human transported surface, and similar soils:* 45 percent *Urban land:* 35 percent *Colwood, human transported surface, and similar soils:* 15 percent *Minor components:* 5 percent *Estimates are based on observations, descriptions, and transects of the mapunit.* 

#### Description of Kibbie, Human Transported Surface

#### Setting

Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear, concave Parent material: Loamy human-transported material over loamy glaciolacustrine deposits over sandy glaciolacustrine deposits

#### **Typical profile**

 $^A$ *u* - 0 to 9 inches: sandy loam  $^C$ *u* - 9 to 12 inches: loam Bwb - 12 to 36 inches: silty clay loam C - 36 to 61 inches: silt loam 2C - 61 to 80 inches: sand

### **Properties and qualities**

Slope: 0 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 30 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 42 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 11.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Ecological site: F099XY007MI - Lake Plain Flats Hydric soil rating: No

## **Description of Urban Land**

#### Properties and qualities

Slope: 0 to 1 percent Depth to restrictive feature: 0 inches to manufactured layer Runoff class: High Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D Hydric soil rating: No

#### **Description of Colwood, Human Transported Surface**

#### Setting

Landform: Lakebeds (relict), deltas Down-slope shape: Linear Across-slope shape: Concave, linear Parent material: Loamy human-transported material over loamy glaciolacustrine deposits over sandy glaciolacustrine deposits

#### **Typical profile**

 $^A$ *u* - 0 to 9 inches: sandy loam  $^C$ *u* - 9 to 12 inches: loam Bgb - 12 to 35 inches: silty clay loam C - 35 to 62 inches: silt loam 2C - 62 to 80 inches: sand

#### **Properties and qualities**

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low (0.01 to 0.14 in/hr)
Depth to water table: About 24 to 30 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 42 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)
Available water supply, 0 to 60 inches: High (about 12.0 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: D *Ecological site:* F099XY007MI - Lake Plain Flats *Hydric soil rating:* No

#### **Minor Components**

### Rapson, human transported surface

Percent of map unit: 3 percent Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear, concave Hydric soil rating: No

#### Fortress family

Percent of map unit: 2 percent Landform: Deltas, lakebeds (relict) Down-slope shape: Linear Across-slope shape: Convex, linear, concave Hydric soil rating: No

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Coleman A. Young Municipal Center 2 Woodward Avenue. Suite 908 Detroit, Michigan 48226 Phone: 313.224.6380 Fax: 313.224.1629 www.detroitmi.gov

April 4, 2022

Penny Dwoinen City of Detroit Housing & Revitalization Department Coleman A. Young Municipal Center 2 Woodward Avenue, Suite 908 Detroit, MI 48226

# **RE: Section 106 Review of a CDBG-Funded Project Located at 9710-30 W. Outer Drive in the City of Detroit, Wayne County, Michigan**

Dear Mrs. Dwoinen,

Under the authority of the National Historic Preservation Act (NHPA) of 1966, as amended, and the "Programmatic Agreement between the Michigan State Historic Preservation Office and the City of Detroit, Michigan...," dated November 9, 2016, the City of Detroit has reviewed the abovecited project and has determined it to be an undertaking as defined by 36 CFR 800.16(y).

Based on the information submitted to this office on 3/31/2022, we have determined a Historic Property is located within in the Area of Potential Effects (APE) for this project. The building at **9710-30 W. Outer Drive is listed on** the National Register of Historic Places as part of the Rosedale Park Local Historic District. Therefore, per Stipulation V.B of the Programmatic Agreement (PA), the project shall be carried out in accordance with the *Secretary of the Interior's Standards for Rehabilitation*.

This project has been given a **Conditional No Adverse Effect** determination (Federal Regulations 36 CFR Part 800.5(b)) on properties that are listed or eligible for listing in the National Register of Historic Places, as long at the following conditions are met:

- The work is conducted in accordance with the specifications submitted to the Preservation Specialist on 3/31/2022
- Any changes to the scope of work for the project shall be submitted to the Preservation Specialist for review and approval prior to the start of any work
- A copy of the NPS Tax Credit Part II approval is provided
- Photos of the completed work are submitted to the Preservation Specialist

Please note that the Section 106 Review process will not be complete until the above-mentioned conditions are met. If you have any questions, you may contact the Preservation Specialist at <u>Ciavattonet@detroitmi.gov</u>.

Sincerely,



Coleman A. Young Municipal Center 2 Woodward Avenue. Suite 908 Detroit, Michigan 48226 Phone: 313.224.6380 Fax: 313.224.1629 www.detroitmi.gov

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Tiffany Ciavattone Preservation Specialist City of Detroit Housing & Revitalization Department



Coleman A. Young Municipal Center

Phone: 313.224.6380

Fax: 313.224.1629

Detroit, Michigan 48226

2 Woodward Avenue. Suite 908

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Submit one application for each project for which comment is requested. Consult the *Instructions for the Application for HRD Section 106 Consultation Form* when completing this application. Once application form is complete please submit via: <u>https://app.smartsheet.com/b/form/1faa296eedac476a9fbf2ef1916ddb99</u>, along with any supplemental attachments, up to 250MB.

I. GENERAL INFORMATION 🛛 New submittal

□ More information relating to and existing project

- a. Project Name: GRPC II (Outer Drive)
- b. Project Municipality: Detroit
- c. Project Address: 9710, 9730 W. Outer Drive

# II. FEDERAL AGENCY INVOLVEMENT AND RESPONSE CONTACT INFORMATION

- a. State Agency Contact (*if applicable*): NA Contact Name: NA
   Contact Address: NA City: NA Zip: NA
   Email: NA Phone: NA
- b. Applicant (if different than federal agency): Grandmont Rosedale Development Corporation Contact Name: Becki Kenderes
   Contact Address: 19800 Grand River City: Detroit State: MI Zip: 48223
   Email: becki@grandmontrosedale.com Phone: 313-387-4732 Ext 120
- c. Consulting Firm (if applicable): Kidorf Preservation Consulting Contact Name: Kristine Kidorf
   Contact Address: 451 E. Ferry St City: Detroit State: MI Zip: 48202
   Email: kristine@kidorfpreservationconsulting.com Phone: 313-300-9376

# **III. PROJECT INFORMATION**

- a. Project Location and Area of Potential Effect (APE)
  - i. Maps. Please indicate all maps that will be submitted as attachments to this form.

Street map, clearly displaying the direct and indirect APE boundaries
Site map
USGS topographic map Name(s) of topo map(s): Name(s) of topo map(s)
Aerial map
Map of photographs
Other: Identify type(s) of map(s)



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# ii. Site Photographs

#### iii. Describe the APE:

The properties at 9710 and 9730 West Outer Drive. The entire property is about .3 of an acre.

iv. Describe the steps taken to define the boundaries of the APE:

The project is the rehabilitation of two existing apartment buildings and upgrade of an existing parking lot. The buildings will appear the same after rehabilitation, so there will be no change in the views or setting of surrounding properties. No building demolition is proposed. There is an increase of two apartment units, but that increase will not change the amount of traffic or noise in the area. There is no potential to affect any properties outside of the two apartment buildings being rehabilitated and the associated parking lot.

#### b. Project Work Description

Describe all work to be undertaken as part of the project:

Rehabilitate the exterior and interior of two existing apartment units. The rehabilitation includes window replacement, exterior repairs, and interior MEP upgrades, new kitchens, and new bathroom fixtures. The existing parking lot at the rear of the property will have new lighting and new fencing. The walkways around the building are proposed to be replaced in their existing configuration. The work has been approved by the Detroit Historic District Commission, as well as the State Historic Preservation Office and National Park Service as part of the federal historic rehabilitation tax credit process. Note that because ground disturbance is well under the half-acre, the city is not requiring archaeological review.

# IV. IDENTIFICATION OF HISTORIC PROPERTIES

- a. Scope of Effort Applied
  - i. List sources consulted for information on historic properties in the project area (including but not limited to SHPO office and/or other locations of inventory data).

SHPO records, National Register of Historic Places, State Register of Historic Sites, City of Detroit Local Historic Districts.

- ii. Provide documentation of previously identified sites as attachments.
- iii. **Provide a map** showing the relationship between the previously identified properties and sites, your project footprint and project APE.
- iv. Have you reviewed existing site information at the SHPO: Second Yes Second No.
- v. Have you reviewed information from non-SHPO sources: SYes D No
- b. Identification Results
  - i. Above-ground Properties



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Phone: 313.224.6380 Fax: 313.224.1629

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- A. Attach the appropriate <u>Michigan SHPO Identification Form</u> for each resource or site 50 years of age or older in the APE. Refer to the *Instructions for the Application for SHPO Section 106 Consultation Form* for guidance on this.
- B. Provide the name and qualifications of the person who made recommendations of eligibility for the above-ground identification forms.

Name Kristine Kidorf Agency/Consulting Firm: Kidorf Preservation Consulting

Is the individual a 36CFR Part 61 Qualified Historian or Architectural Historian 🛛 Yes 🛛 No

Are their credentials currently on file with the SHPO?  $\boxtimes$  Yes  $\Box$  No

If NO attach this individual's qualifications form and resume.

- ii. **Archaeology** (complete this section if the project involves temporary or permanent ground disturbance) Submit the following information using attachments, as necessary.
  - A. Attach Archaeological Sensitivity Map.
  - B. Summary of previously reported archaeological sites and surveys:

Previously reported archaeological sites and surveys

- C. Town/Range/Section or Private Claim numbers: town/range/section or private claim #s
- D. Width(s), length(s), and depth(s) of proposed ground disturbance(s): Width, length, depth of proposed ground disturbance
- E. Will work potentially impact previously undisturbed soils? 
  Ves No

*If YES,* summarize new ground disturbance: Summary of new ground disturbance

F. Summarize past and present land use:

Summary of past and present land use

G. Potential to adversely affect significant archaeological resources:

□ Low □ Moderate □ High

For moderate and high potential, is fieldwork recommended? 
Ves No

Briefly justify the recommendation:

Justification for recommendation of fieldwork

H. Has fieldwork already been conducted? 
Yes No

If YES:



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Previously surveyed; refer to A. and B. above.
 Newly surveyed; attach report copies and provide full report reference here:

Full report reference

1. Provide the name and qualifications of the person who provided the information for the Archaeology section:

Name: Name of archaeologist Agency/Firm: Archaeologist's agency or firm Is the person a 36CFR Part 61 Qualified Archaeologist? □ Yes □ No Are their credentials currently on file with the SHPO? □ Yes □ No *If NO*, attach this individual's qualifications form and resume.

## Archaeological site locations are legally protected.

This application may not be made public without first redacting sensitive archaeological information.

# V. DETERMINATION OF EFFECT

Guidance for applying the Criteria of Adverse Effect can be found in *the Instructions for the Application for SHPO Section 106 Consultation Form*.

## a. Basis for determination of effect:

The rehabilitation project will meet *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Properties* and will have No Adverse Effect on 9710 and 9730 W. Outer Drive which are listed in the National Register of Historic Places as contributing properties in the Rosedale Park Historic District.

## b. Determination of effect

□ No historic properties will be affected

Historic properties will be affected and the project will (check one):

Ave No Adverse Effect on historic properties within the APE.

□ have an **Adverse Effect** on one or more historic properties in the APE and the federal agency, or federally authorized representative, will consult with the SHPO and other parties to resolve the adverse effect under 800.6.

Date: Applicant Signature



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Phone: 313.224.6380 Fax: 313.224.1629 www.detroitmi.gov

Type or Print Name: <u>Becki Kenderes</u> Title: <u>Program Director</u>



Coleman A. Young Municipal Center 2 Woodward Avenue. Suite 908 Detroit, Michigan 48226 Phone: 313.224.6380 Fax: 313.224.1629 www.detroitmi.gov

## ATTACHMENT CHECKLIST

## Identify any materials submitted as attachments to the form:

- □ Additional federal, state, local government, applicant, consultant contacts
- ⊠ Maps of project location

Number of maps attached: number of maps

- Site Photographs
  - $\boxtimes$  Map of photographs
- □ Plans and specifications
- ☑ Other information pertinent to the work description: NPS Part 2 tax credit applications
- ☑ Documentation of previously identified historic properties
- □ Architectural Properties Identification Forms
- ⊠ Map showing the relationship between the previously identified properties, your project footprint, and project APE
- □ Above-ground qualified person's qualification form and resume
- □ Archaeological sensitivity map
- □ Survey report
- □ Archaeologist qualifications and resume
- □ Other: Identify other attached materials



451 E. Ferry Street, Detroit, Michigan 48202 313-300-9376

March 14, 2022

Becki Kenderes Grandmont Rosedale Development Corporation 19800 Grand River Avenue Detroit, MI 48223

RE: Apartment rehabilitation, GRPC II, 9710 and 9730 West Outer Drive, Detroit, Wayne County

Dear Ms. Kenderes,

Per your request, I have prepared this report assessing the historic properties and the effect of the above project. My education and experience meet the qualifications required in 36 CFR 61 for an architectural historian. On February 11, 2021, and again on February 4, 2022, I visited the project site to evaluate the project site and surrounding area. This written report will (1) define the area of potential effects (APE); (2) identify Historic Properties within the APE; (3) evaluate the historic significance of identified properties as appropriate; and (4) assess the effects of the proposed apartment rehabilitation project on any historic properties within the APE.

## **DESCRIPTION OF THE PROJECT**

The proposed project is to rehabilitate two adjacent apartment buildings at 9710 and 9730 West Outer Drive and improve a shared parking lot at the rear of the buildings. The properties are located in northwest Detroit, just south of Grand River Avenue on the west side of West Outer Drive. The proposed rehabilitation scope is included in the attached federal historic tax credit part 2 applications. On the exterior the roofs will receive new cladding to match the existing, deteriorated wood trim will be repaired or replaced to match the existing and painted, the masonry will be repaired to match the existing as required, the windows will be replaced, and the doors will be rehabilitated. On the 9730 building ten new window openings are proposed at the basement level in the rear of the building for the new units. On the interior the buildings will receive upgrades to electrical, mechanical, plumbing, and fire protection systems. Air conditioning will be added to the buildings. New bathroom fixtures will be installed, and the kitchens will be remodeled with new cabinets, counters, and appliances. All historic finishes such as coved ceilings, wood trim, and stairways will be maintained. The rear parking lot will be fenced, and new lighting will be installed. New air conditioner condensers will be relaced in the rear of the buildings. The concrete walkways and steps around the building will be replaced to match the existing. The proposed ground disturbance does not exceed a half-acre.



Photo 1 Looking northwest at 9730 (left) and 9710 (right) West Outer Drive, February 2021



Photo 2 – Looking southwest at 9710, February 2021



Photo 3 – Detail of entrance and courtyard of 9730, February 2021



Photo 4 – Looking east at parking lot, 9730 on right, 9710 on left, February 2021

## **AREA OF POTENTIAL EFFECT (APE)**

The APE is the properties at 9710 and 9730 West Outer Drive, including the parking lot behind the buildings. There is a house and garage directly behind 9710 that are not part of the project. As the project is the rehabilitation of existing buildings and parking lot there is limited potential for a change in

setting, atmosphere, or feeling of any surrounding properties. The buildings will appear nearly identical to the way they do presently. Although two apartment units will be added to the garden level of 9730 that is not anticipated to increase the amount of noise or traffic. No building demolition is proposed. The indirect APE was confirmed through the site visit. The project areas and indirect APE are shown on the attached street maps and aerial views that also contain a photo key for this report.

## HISTORIC PROPERTIES WITHIN THE APE

The SHPO records for the APE were requested, and the *National Register of Historic Places, State Register of Historic Sites, and the Detroit Local Historic Districts* on-line information were reviewed. The buildings are contributing properties within the Rosedale Park Historic District which is listed in the National Register of Historic Places and has been locally designated by the City of Detroit. The buildings were certified as contributing to the historic district through the submittal of the federal historic rehabilitation tax credit part 1 applications. The district does not extend into the parking lot or include the house and garage behind 9710. The house and garage are not eligible for listing in the National Register of Historic Places.

Because the overall property is .3 of an acre, and ground disturbing activities will be under a half-acre, archaeological review was not requested.



Photo 5 – Looking east across W. Outer Drive at the Rosedale Park Historic District, February 2021



Photo 6 – Looking north at house and garage behind 9710, February 2021

## **ASSESSMENT OF EFFECTS**

The proposed rehabilitation has been approved by the Detroit Historic District Commission (exterior) and the State Historic Preservation Office and National Park Service (interior and exterior) and meets *The Secretary of the Interior's Standards for Rehabilitation and Guidelines for Rehabilitating Historic Properties.* Therefore, the proposed rehabilitation will not adversely affect the properties at 9710 and 9730 W. Outer Drive which are contributing to the Rosedale Park Historic District which is listed in the National Register of Historic Places and locally designated by the City of Detroit.

It is my opinion that the project will have No Adverse Effect on 9710 and 9730 West Outer Drive, contributing properties to the Grandmont Rosedale Historic District, and No Adverse Effect on the Rosedale Historic District which is listed in the National Register of Historic Places and locally designated by the City of Detroit. The proposed rehabilitation will meet *The Secretary of the Interior's Standards* and will not change any characteristics that qualify the properties or district for listing in the National Register. If you have any questions or require additional information, please contact me at 313-300-9376 or at kristine@kidorfpreservationconsulting.com.

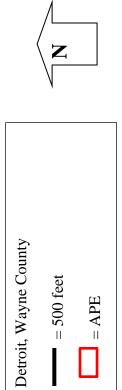
Sincerely,

Kristine M. Kidorf Kidorf Preservation Consulting

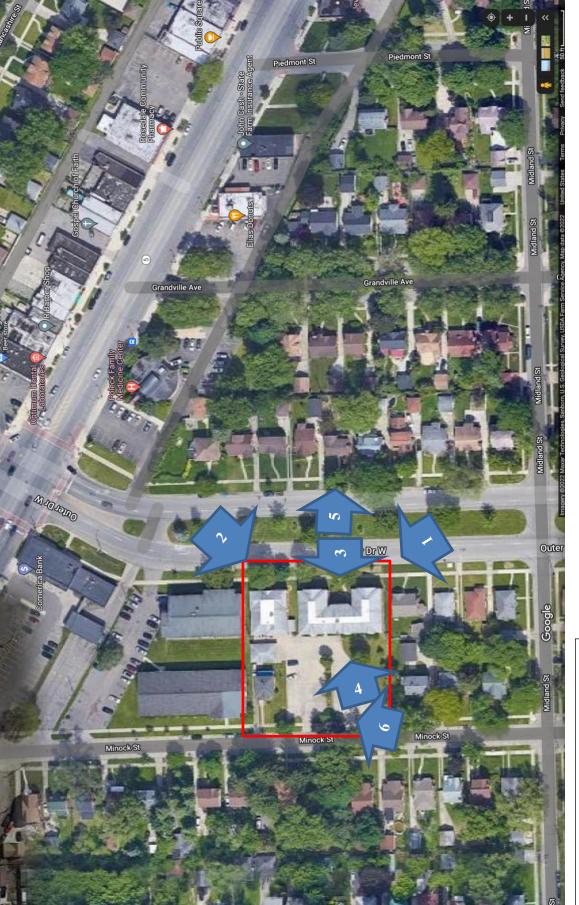
Attachments





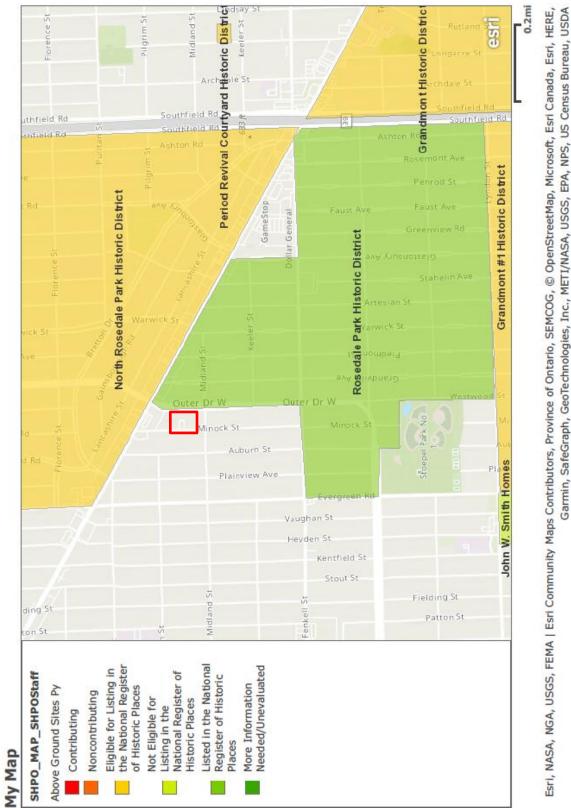


## ATTACHMENT B - PHOTO KEY AND APE ON AERIAL MAP





## INDIRECT APE ON SHPO PROVIDED MAPS



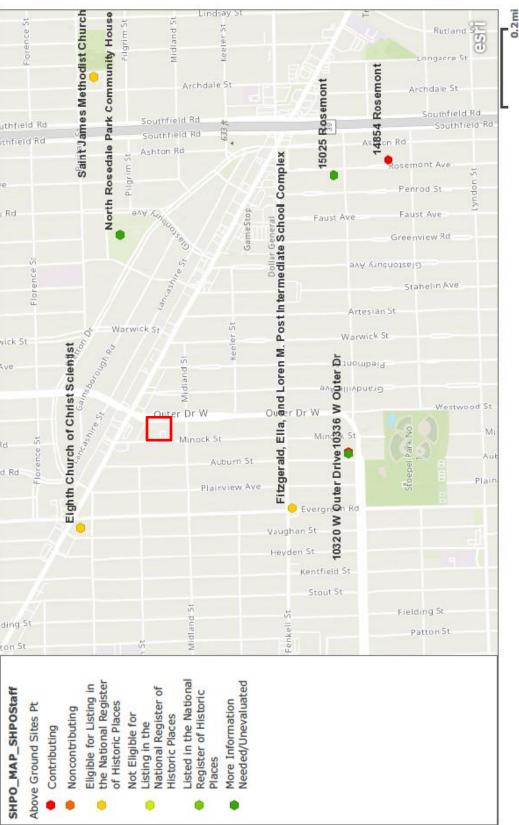
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# ArcGIS - My Map

## My Map



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## FEDERAL HISTORIC TAX CREDIT PART 2 APPLICATIONS - WORK SCOPE

### HISTORIC PRESERVATION CERTIFICATION APPLICATION PART 2 – DESCRIPTION OF REHABILITATION

Historic Property Name	Colonial Apartments	NPS Project Number 43249
Property Address 97	10 W. Outer Drive , Detroit	, мі
		ge to describe all work or create a comparable format with this information exterior and interior, additions, site work, landscaping, and new construction.
Number 1	Feature Site	Date of Feature unknown
Describe existing f	eature and its condition	
planted next public sidew alley that p	to the foundation. A could be alk to the front door. The provides access to the real second be accessed by the real second by the real second be accessed by the real second by the re	sidewalk with a flat grassy front lawn. Shrubs are oncrete walkway in poor condition runs from the The rear of the building abuts an abandoned public ar of the building from the neighboring parking lot small grassy lawns on both sides of the building.
Photo Numbers 1-5,	28-33	Drawing Numbers C3.0, L1.0
Describe work to f	eature	
on the groun tall wood so	d behind the north half of creen and gate will be ere lding and the neighboring	on. Ten condenser units are proposed to be installed of the building in the existing alleyway. A six foot ected at the south end of the units between the g garage wall in order to protect and screen the
Number 2	Feature Roof	Date of Feature 1940, unknown
Describe existing f	leature and its condition	
shingles in the building	poor condition. A flat : . Gable front pediments	cluding the gas shed addition are clad in asphalt section of roof with no parapet is in the center of with louvers project from the main roof. The wood and downspouts are in fair to poor condition.
The deterior	ated frame of a small car	nopy projects over the rear door.
Photo Numbers 1-5,	, 28-33	Drawing Numbers A1.3
Describe work to f	eature	
	· · · · · · · · · · · · · · · · · · ·	of will be replaced with new Owens Corning Oakridge f areas will be replaced with TPO membrane roofing.
The soffit w replaced wit	vill be replaced with mate	ith matching engineered composite trim and painted. ching wood soffit and painted. The gutters will be ers. Downspouts will be painted, or if missing or downspouts.
The gable fr scraped, and		the louvers will be repaired to match the existing,
configuratio	on. The flat roof will have	door will be reconstructed in the same location and ave a rubber membrane with an aluminum edge. New tie underside of the roof will be painted.
Number 3	Feature Exterior walls	Date of Feature 1940, unknown

Historic Property Name Colonial Apartments NPS Project Number 43249

Property Address 9710 W. Outer Drive , Detroit, MI

#### Describe existing feature and its condition

The exterior walls are clad in multi-tone red brick with limestone trim that is in fair to good condition. A small, one-story gas shed addition projects from the south side. The wood trim and decorative details are in fair condition.

Photo Numbers 1-5, 28-33

Drawing Numbers A3.0

#### Describe work to feature

The brick masonry will be repaired to match the existing. Repairs are anticipated to be minor and any tuckpointing will use mortar that matches the existing in color, hardness, and profile. It is proposed to clean the exterior walls using the gentlest means possible. Test cleaning will be conducted. Existing brick vents will remain as is.

One new mechanical louver and two new dryer vents are proposed at the basement (garden) level on the north side of the building.

All wood trim will be scraped and painted. Any required repairs will match the existing.

	Number 4	Feature	Windows,	exterior	doors	Date of Feature	1940
0.5				1.			

#### Describe existing feature and its condition

The majority of the existing windows are double-hung wood windows in poor condition. The exteriors have not been maintained or painted and have failing exterior putty glazing, failed corner joinery, and many of the exterior sills are fissured, showing decay and dry rot. The existing exterior storm windows are in poor condition.

The bathroom windows are narrow gauge steel double-hung windows in fair to poor condition. The existing exterior storm windows are in poor condition. The windows in the stairs are fixed radius head steel windows.

The existing doors are wood and glass and are in good condition.
Photo Numbers 1-5, 28-33
Drawing Numbers Window assessments, A4.01-4.03

#### Describe work to feature

It is proposed to repair the fixed radius head steel windows located in the stairways.

The wood windows are deteriorated beyond repair as noted above and the lack of thermal performance, will lead to condensation and further window deterioration, even combined with interior or exterior storms. It is proposed to replace the wood windows with Quaker H650 windows.

Although the steel double-hung windows are in fair condition, the repair of the windows is not feasible due to an inability to obtain replacement parts which are no longer manufactured. Additional concerns include poor thermal performance, leading to condensation and further window deterioration, even combined with interior or exterior storm windows. See attached window assessment by Blackberry Systems. It is proposed to replace the steel double-hung windows with Thermal Inc. 700 Series windows.

The existing doors will be painted and will receive new hardware.

Historic Property Name			
Property Address 9710	W. Outer Drive , Detroit, Mi		
Number 5	Feature Interior floors	Date of Feature 1940, un	hknown

#### Describe existing feature and its condition

The entrance vestibule and lobby have a tile floor. The stairs are wood covered with carpet. The first and second floor corridors are carpet. The basement corridor and rear stairs to the basement are old vinyl tile. The basement unit floors are carpet. The basement utility spaces are concrete. The units in the first and second floors have wood floors in the living, dining, and bedrooms. The kitchens have newer vinyl floors. The bathrooms have porcelain tile floors.

Drewing Numbers AD1.0-1.2, A1.0-1.2 Photo Numbers 6-27, 34-35

#### **Describe work to feature**

The entrance vestibule and lobby floors will be retained as is. The stairs and first and second floor corridors will have new carpet installed. The basement corridor will have the tile removed and the concrete underneath sealed. The rear stair to the basement will have the vinyl tile removed and carpet installed. The basement units will have sealed concrete floors in the living, dining, and bedrooms, resilient tile flooring in the existing kitchens, and sealed concrete in the new unit kitchens. The existing bathroom floors in the basement will remain as is. The utility spaces will have sealed concrete floors.

The units in the first and second floors will retain the existing flooring in the living, dining, bedrooms, and bathrooms. The kitchens will receive new resilient tile flooring.

Number 6	Feature	Interior	walls,	interior	doors	Date of Feature	1940,	unknown

#### Describe existing feature and its condition

The vestibule walls are a decorative board that looks like tile. The stair, corridor, and unit walls are painted plaster. Some unit types have arched openings.

Unit entrance doors and doors inside units are flush wood doors with the exception of the basement unit entry doors which are metal.

#### Photo Numbers 6-27, 34-35 Drawing Numbers

#### **Describe work to feature**

The existing mailboxes in the vestibule will be replaced with new mailboxes in the same location. No other work will be done to the decorative board on the vestibule walls. The stair and corridor walls will be painted.

Within the units the walls will be painted, any disturbance needed for new MEP will be repaired to match the existing. All of the kitchens will have the cabinets and appliances replaced with new cabinets, counters, and appliances. All archways will be maintained.

Existing flush wood unit entry and doors within units will remain. The metal unit entry doors in the basement will be replaced with flush wood doors that match the existing doors.

Number 7	Feature	Interior ceilings	Date of Feature	1940, unknown
----------	---------	-------------------	-----------------	---------------

Historic Property Name Colonial Apartments NPS Project Number 43249 Property Address 9710 W. Outer Drive , Detroit, MI Describe existing feature and its condition

The ceilings throughout the building are painted plaster. There are cove moldings in the living and dining rooms.

Photo Numbers 6-27, 34-35

Drawing Numbers AD1.0-1.2, A1.0-1.2, A2.0-2.1

#### Describe work to feature

The vestibule, stair, and corridor ceilings will be painted. Within the units in order to preserve the coved ceilings new painted gypsum board ceilings will be installed at 7' above the finished floor in the bathrooms and over portions of the kitchens and over portions of the bedrooms in order to accommodate HVAC ducts. Lowered ceilings will be above the tops of windows. Any disturbances due to MEP work will be repaired to match the existing.

Number 8 Feature MEP Date of Feature	unknown
--------------------------------------	---------

#### Describe existing feature and its condition

The plumbing, electrical, and mechanical systems do not meet current needs and standards. The building does not have air conditioning. The building does not have a sprinkler system.

Photo Numbers 6-27, 34-35

**Describe work to feature** 

The plumbing, toilets and sinks are proposed to be replaced. The existing heating system is proposed to be replaced with a new forced air heating and cooling system. Electrical systems will be upgraded. A sprinkler system is proposed to be installed. All MEP systems will be concealed behind new finished ceilings and soffits.

Drawing Numbers

NPS Project Number 43250 Historic Property Name Property Address 9730 W. Outer Drive aka 15770 Minnock, Detroit, MI

5. Detailed Description of Rehabilitation Work. Use this page to describe all work or create a comparable format with this information. Number items consecutively to describe all work, including building exterior and interior, additions, site work, landscaping, and new construction.

Number 1	Feature	Site	Date of Feature	unknown	
Number 1	Feature	Site	Date of Feature	unknown	

#### Describe existing feature and its condition

Building is set back from the public sidewalk with a flat grassy front lawn. Overgrown shrubs are located next to the foundation. A concrete walkway in poor condition runs from the public sidewalk to the front door. A second concrete walkway in poor condition abuts the north side of the building. A shallow grassy area and an asphalt paved parking lot are located behind the building. A chain link fence separates the south side of the building from the house next door.

Photo Numbers 1-4, 31-40 Drawing Numbers C3.0, L1.0

#### Describe work to feature

The front concrete walkway is proposed to be removed and replaced with a matching walkway in the same location and configuration. The walkway along the north side of the building is proposed to be removed and replaced with a new, wider concrete walkway to provide barrier-free access to the rear of the building. The foundation plantings around the building are proposed to be removed and replaced with new planting beds with new shrubbery. At the rear of the building a portion of the lawn to the side of the parking lot it is proposed to install 25 condensers sitting on concrete pads with gravel between the pads. Yew bushes will surround the gravel area to screen the condensers. Any areas of grassy lawn disturbed throughout the property will be restored to match the existing. Three new dumpsters enclosed with 6' tall CMU walls and a double gate will be constructed in the existing parking lot.

Note that some supporting documents with this submission reference a new barrier free ramp and entry at the rear of the building. Due to budget constraints that work is no longer proposed. No barrier free entrance is proposed.

Number 2 Feature Roof	Date of Feature	1939,	unknown	
-----------------------	-----------------	-------	---------	--

#### Describe existing feature and its condition

The existing sloped areas of roof, including the bay windows at the rear of the building, are clad in asphalt shingles in poor condition. A flat section of roof with no parapet is in the center of the building. Gable front dormers with louvers are located on the rear roof slope. The wood soffit, fascia, aluminum gutters and downspouts are in fair to poor condition.

Photo Numbers 1-4, 31-40

Drawing Numbers A1.3

#### **Describe work to feature**

The asphalt shingled areas of the roof will be replaced with new Owens Corning Oakridge asphalt shingles. The low slope roof areas will be replaced with TPO membrane

The fascia will be replaced with matching engineered composite trim and painted. The soffit will be replaced with matching wood soffit and painted. The gutters will be replaced with matching aluminum gutters. Downspouts will be painted, or if missing or deteriorated, replaced with matching downspouts.

The dormers and louvers will be repaired to match the existing, scraped, and painted.

Historic Property Name		NPS Pr	roject Number	43250	
Property Address 973	0 W. Outer Drive aka 15770 Minnock, Detroit, MI				
Number 3	Feature Exterior walls	Date of Feature	1939		
Describe existing fe	ature and its condition				
The exterior	walls are clad in multi-tone red brick that	is in fair	to good	condition.	
The wood trim	and decorative details are in fair conditi	on.			
The wood trim	and decorative details are in fair conditi	on.			

Photo Numbers 1-4, 31-41

Drawing Numbers A3.0

#### Describe work to feature

The brick masonry will be repaired to match the existing. Repairs are anticipated to be minor and any tuckpointing will use mortar that matches the existing in color, hardness, and profile. It is proposed to clean the exterior walls using the gentlest means possible. Test cleaning will be conducted.

It is proposed to install brick vents in the rear and north and south side elevations. Vents are also proposed in the corner of the side walls of the front courtyard.

In the rear it is proposed to add 9 window openings at the basement/garden level to accommodate new living units. Openings will be aligned with the existing windows.

All wood trim will be scraped and painted. Any required repairs will match the existing.

Number 4	Feature	Windows,	exterior doors	Date of Feature	1939
----------	---------	----------	----------------	-----------------	------

#### Describe existing feature and its condition

The majority of the existing windows are narrow gauge steel double-hung windows in fair to poor condition. The exterior storm windows are in poor condition. The windows in the stairs are fixed radius head steel windows.

The existing doors are wood and glass and are in good condition.

#### Photo Numbers 1-4, 31-41

Drawing Numbers Window assessments, A4.01-4.03

#### Describe work to feature

It is proposed to repair the fixed radius head steel windows located in the stairways.

Although the steel double-hung windows are in fair condition, the repair of the windows is not feasible due to an inability to obtain replacement parts which are no longer manufactured. Additional concerns include poor thermal performance, leading to condensation and further window deterioration, even combined with interior or exterior storm windows. See attached window assessment by Blackberry Systems. It is proposed to replace the steel double-hung windows with Thermal Inc. 700 Series windows.

It is proposed to install nine new window openings on the rear elevation at the basement/ garden level. The new windows will use the Thermal Inc. 700 Series windows to match the existing windows.

Historic Property Name	NPS Project Number	43250
Property Address 9730 W. Outer Drive aka 15770 Minnock, Detroit, MI The existing doors will be painted and will receive new hardwa	are.	
Number 5 Feature Interior floors Date of	Feature 1939, u	inknown

#### Describe existing feature and its condition

The entrance vestibule and lobby have a tile floor. The stairs are wood covered with carpet. The first and second floor corridors are carpet. The basement corridor is tile. The basement unit floors are deteriorated vinyl tile. The basement utility spaces are concrete. The units in the first and second floors have wood floors in the living, dining, and bedrooms. The kitchens have newer vinyl floors. The bathrooms have porcelain tile floors.

Photo Numbers 5-30, 42-72 Drawing Numbers AD1.0-1.2, A1.0-1.2, A7.2.1

#### **Describe work to feature**

The entrance vestibule and lobby floors will be retained as is. The stairs and first and second floor corridors will have new carpet installed. The basement corridor will remain as is. The basement units will have sealed concrete floors in the living, dining, and bedrooms, and resilient tile flooring in the existing kitchens. The kitchens in the new units will have sealed concrete floors. The existing bathroom floors in the basement will remain as is, the new basement unit bathrooms will have new porcelain tile floors. The utility spaces will have sealed concrete floors.

The units in the first and second floors will retain the existing flooring in the living, dining, bedrooms, and bathrooms. The kitchens will receive new resilient tile flooring.

Number 6 Feature Interior walls, interior doors Date of Feature 1939, unknown

#### Describe existing feature and its condition

The vestibule walls are a decorative board that looks like tile. The stair, corridor, and unit walls are painted plaster. Some unit types have arched openings.

Unit entrance doors and interior unit doors are flush wood doors.

#### Photo Numbers 5-30, 42-72

Drawing Numbers AD1.0-1.2, A1.0-1.2, A7.2.1

#### Describe work to feature

The existing mailboxes in the vestibule will be removed and a drywall niche will be created for a message board in the vestibule. No work will be done to the decorative board on the walls. New mailboxes will be installed in the first floor corridor to the right of the front stair. The stair and corridor walls will be painted.

Within the units the walls will be painted. New units in the basement will have painted gypsum board walls. All of the kitchens will have the cabinets and appliances replaced with new cabinets, counters, and appliances. The kitchens in unit type S.106 (2 units in building) are small single units within a passage. In those two units the kitchen will be relocated into the living room. All archways will be maintained. Any disturbance due to MEP work will be repaired to match the existing.

The unit entrance doors and doors within units will primarily remain as is. Some closet doors will be replaced with matching flush wood doors.

Historic Property Name		NPS Project Number 43250
Property Address 973	0 W. Outer Drive aka 15770 Minnoch	k, Detroit, MI
Number 7	Feature Interior ceilings	Date of Feature 1939, unknown
Describe existing fea	ature and its condition	
		ainted plaster. The corridor ceilings are
curved, there	are cove moldings in the livi	ing and dining rooms.
Photo Numbers 5-30,		Drawing Numbers AD1.0-1.2, A1.0-1.2, A2.0-2.2
Describe work to fea		·····
		s will be painted. Within the units in order
		gypsum board ceilings will be installed at 7' and over portions of the kitchens and over
		nodate HVAC ducts. Lowered ceilings will be
above the top	os of windows. Any disturbance	e due to MEP work will be repaired to match the
existing.		
Number 8	Feature MEP	Date of Feature unknown
Describe existing fe	ature and its condition	
•		ystems do not meet current needs and standards.
	-	g. The building does not have a sprinkler
system.		
Photo Numbers 5-30,	, 42-72	Drawing Numbers
Describe work to fea	ature	
The nlumbing	toilate and einke are propose	ad to be replaced The existing beating eveter

The plumbing, toilets and sinks are proposed to be replaced. The existing heating system is proposed to be replaced with a new forced air heating and cooling system. Electrical systems will be upgraded. A sprinkler system is proposed to be installed. All MEP systems will be concealed behind new finished ceilings and soffits.

New brick vents are proposed for some exterior walls - see Exterior Wall section.

## **ADDITIONAL EXTERIOR PHOTOS – 9710 W OUTER DRIVE**



North Elevation









Typical unit living and

dining room

## 9730 W OUTER DR ADDITIONAL PHOTOS



East façade and north elevation



and dining room

Typical unit living

Noise Assessment 9710-9730 West Outer Drive Detroit, Michigan

Grandmont Rosedale Park Collective II

April 7, 2022

ASTI ENVIRONMENTAL





Noise Assessment 9710-9730 West Outer Drive Detroit, Michigan

April 7, 2022

## **Report Prepared For:**

Grandmont Rosedale Park Collective II 19800 Grand River Avenue Detroit, Michigan 48223

**Report Prepared By:** 

ASTI Environmental 10448 Citation Drive, Suite 100 Brighton, Michigan 48116 800-395-ASTI

## ASTI Project No. 1-11641

Report Prepared by:

Report Reviewed by:

Christopher Yelonek Architectural Historian / Associate I

David Amir Director of Redevelopment Services



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## ATTACHMENTS

A NAL Location Map	)
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- B Airport Noise Contour MapC AADT Information
- **D** Day-Night Level Electronic Assessment

## 1.0 INTRODUCTION

Grandmont Rosedale Park Collective II (GRPC II) proposes the adaptive reuse utilizing funding provided from the City of Detroit of 9710-9730 West Outer Drive, Detroit, Michigan, referred to herein as "Subject Property".

This assessment was conducted to provide the noise level and associated noise category at each designated Noise Assessment Location (NAL) at the Subject Property. This assessment does not include an evaluation of noise attenuation but general guidance is provided at the end of this assessment.

This evaluation was conducted per guidelines set forth in 24 CFR 51B. This noise analysis evaluates the Subject Property's exposure to three major sources of noise: aircraft, roadways, and railways. If identified, additional non-transportation noise sources such as loud impulse sounds from nearby industry are also evaluated.

The following three sources of transportation noise and their applicable search distances are outlined below when evaluating noise at a site.

- 1. Aircraft All military and FAA-regulated civil airfields within 15 miles of the Subject Property.
- Roadways Major roadways and limited access highways/freeways within 1,000 feet of the Subject Property utilizing a 10-year projection. Roadways considered are generally based on number of lanes, speed limit, presence of stop signs or lights, overall traffic counts, and/or number of medium or heavy trucks.
- 3. Railroad All active railroads within 3,000 feet of the Subject Property.

The noise level calculated at a NAL is known as the day-night average sound level or DNL. A calculated DNL can fall within three categories as follow.

- 1. Acceptable DNL not exceeding 65 decibels (dB)
- 2. Normally Unacceptable DNL above the 65 dB threshold but not exceeding 75 dB
- 3. Unacceptable DNL above 75 dB

One NAL (NAL #1) was selected on the Subject Property for this analysis based on proximity to noise sources. A map with the Subject Property boundaries and NAL location is included as Attachment A.

The following is a summary of the applicable noise sources identified at the NAL.

Noise Source with Applicable Distance	Name	Distance to NAL				
Airport(s)	Coleman A. Young International Airport	11.05 Miles				
	Detroit Metropolitan Wayne County Airport	13.36 Miles				
Busy Road(s)	Outer Drive West	87 Feet				
	Grand River Avenue	408 Feet				
Railroad(s)	None	NA				
Non-Transportation	None	NA				

NAL #1

## 2.0 EVALUATION OF NOISE SOURCES

## 2.1 Airports

Coleman A. Young International Airport is approximately 11.05 miles distant. Based on the Noise Contour Map for the airport, (Attachment B), the site is not within a distance of concern.

Detroit Metropolitan Wayne County Airport is approximately 13.36 miles distant. Based on the Noise Contour Map for the airport, (Attachment B), the site is not within a distance of concern.

Other small airfields were identified within 15 miles, but these airfields have no commercial traffic and are not likely FAA-regulated. They are not considered to represent a noise concern.

## 2.2 Busy Roadways

The major roadway(s) is/are:

- Outer Drive West
- Grand River Avenue

Outer Drive West is a 4-lane divided boulevard. The speed limit is 35 mph near the Subject Property. The roadway is an approximate effective distance of 87 feet from the northeastern corner of the northern building (NAL #1).

Grand River Avenue is a 4-lane road with a center/left-turn lane. The speed limit is 35 mph near the Subject Property. The roadway is an approximate effective distance of 408 feet from the northeastern corner of the northern building (NAL #1).

Traffic counts were obtained through MDOT. Projections were done through 2032. After review of the traffic count information of each street, a growth rate of 1% per year

compounded was judged appropriate as traffic levels are expected to remain relatively stable or increase slightly. Traffic projections are included in Attachment C.

## 2.3 Railroads

Not applicable.

## 2.4 Non-Transportation Sources

Not applicable.

## 3.0 CALCULATIONS

A Noise DNL calculator worksheet for the NAL is provided in Attachment D.

Using the HUD DNL calculator, the noise level at NAL #1, as predicted in 2032, is calculated to be 67 dB and within the Normally Unacceptable range.

## 4.0 CONCLUSIONS

The following is a summary of the findings of this assessment.

NAL #	Combined Source DNL (dB)	Category
1	67	Normally Unacceptable

## 5.0 REFERENCES

- 24 CFR Part 51 Subpart B
- The Noise Guidebook, U.S. Department of Housing and Urban Development,
- U.S. DOT
- https://mdot.ms2soft.com/
- https://fragis.fra.dot.gov/GISFRASafety/
- https://safetydata.fra.dot.gov/OfficeofSafety/PublicSite/Crossing/Crossing.aspx
- https://www.hudexchange.info/programs/environmental-review/dnl-calculator/

## HUD ATTENUATION GUIDANCE

## https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control/

All sites whose environmental or community noise exposure exceeds the day night average sound level (DNL) of 65 decibels (dB) are considered noise-impacted areas. For new construction that is proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control) of 24 CFR Part 51. The interior standard is 45 dB.

The "Normally Unacceptable" noise zone includes community noise levels from above 65 dB to 75 dB. Approvals in this noise zone require a minimum of 5 dB additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 dB but does not exceed 70 dB, or a minimum of 10 dB of additional sound attenuation if the day-night average sound level is greater than 70 dB but does not exceed 75 dB.

Locations with day-night average noise levels above 75 dB have "Unacceptable" noise exposure. For new construction, noise attenuation measures in these locations require the approval of the Assistant Secretary for Community Planning and Development (for projects reviewed under Part 50) or the Responsible Entity's Certifying Officer (for projects reviewed under Part 58). The acceptance of such locations normally requires an environmental impact statement.

The environmental review record should contain **one** of the following:

- Documentation the proposed action is not within 1000 feet of a major roadway, 3,000 feet of a railroad, or 15 miles of a military or FAA-regulated civil airfield.
- If within those distances, documentation showing the noise level is *Acceptable* (at or below 65 DNL).
- If within those distances, documentation showing that there's an effective noise barrier (i.e., that provides sufficient protection).

 Documentation showing the noise generated by the noise source(s) is *Normally* Unacceptable (66 – 75 DNL) and identifying noise attenuation requirements that will bring the interior noise level to 45 DNL and/or exterior noise level to 65 DNL. Home (/) > STraCAT

## Sound Transmission Classification Assessment Tool (STraCAT)

## **Overview**

The Sound Transmission Classification Assessment Tool (STraCAT) is an electronic version of Figures 17 and 19 in The HUD Noise Guidebook. The purpose of this tool is to document sound attenuation performance of wall systems. Based on wall, window, and door Sound Transmission Classification (STC) values, the STraCAT generates a composite STC value for the wall assembly as a whole. Users can enter the calculated noise level related to a specific Noise Assessment Location in front of a building façade and STraCAT will generate a target required attenuation value for the wall assembly in STC. Based on wall materials, the tool will state whether the composite wall assembly STC meets the required attenuation value.

## How to Use This Tool

## Location, Noise Level and Wall Configuration to Be Analyzed

STraCAT is designed to calculate the attenuation provided by the wall assembly for one wall of one unit. If unit exterior square footage and window/door configuration is identical around the structure, a single STraCAT may be sufficient. If units vary, at least one STraCAT should be completed for each different exterior unit wall configuration to document that all will achieve the required attenuation. Additionally, if attenuation is not based on a single worst-case NAL, but there are multiple NALs which require different levels of attenuation around the structure, a STraCAT should be completed for each differing exterior wall configuration associated with each NAL.

Exterior wall configurations associated with an NAL include those with parallel (facing) or nearparallel exposure as well as those with perpendicular exposure. When a façade has parallel or perpendicular exposure to two or more NALs, you should base the required attenuation on the NAL with the highest calculated noise level. For corner units where the unit interior receives exterior noise through two facades, the STraCAT calculation should incorporate the area of wall, window and door materials pertaining to the corner unit's total exterior wall area (i.e., from both walls).

## Information to Be Entered

Users first enter basic project information and the NAL noise level that will be used as the basis for required attenuation. This noise level must be entered in whole numbers. STraCAT users then enter information on wall, window and door component type and area. Again, as noted above, the wall, window and door entries are based on one unit, and one wall (except for corner units as discussed above). The tool sums total wall square footage based on the combined area of walls, doors and windows for the façade being evaluated.

Users may input STC values for materials in one of two ways. The tool includes a dropdown menu

of common construction materials with STC values prefilled. If selected construction materials are not included in this dropdown menu, the user may also enter the STC for a given component manually. Verification of the component STC must be included in the ERR. Documentation includes the architect or construction manager's project plans showing wall material specifications. For new construction or for components that will be newly installed in an existing wall, documentation also includes the manufacturer's product specification sheet (cut sheet) documenting the STC rating of selected doors and windows.

## Required STC Rating and Determination of Compliance

Finally, based on project information entered the tool will indicate the required STC rating for the wall assembly being evaluated and whether or not the materials specified will produce a combined rating that meets this requirement. Note that for noise levels above 75 dB DNL, either HUD (for 24 CFR Part 50 reviews) or the Responsible Entity (for 24 CFR Part 58 reviews) must approve the level and type of attenuation, among other processing requirement <u>Required attenuation values generated by STraCAT for NALs above 75 dB DNL should therefore be considered tentative pending approval by HUD or the RE.</u>

· .	
Project	
9710-9730 West Outer Dr.	
Sponsor/Developer	
Grandmont Rosedale	
Location	
Detroit, MI	
Prepared by	
B. Buckley, ASTI Env.	
Noise Level	
67	
Date	
3/29/2022	
Primary Source(s)	
ASTI Noise Assessment	

Wall Construction Detail	A	rea		STC
4x8x18" concrete block with commo mortared together	on brick all	522		51
Add new wall				
	5	22 Sq. Feet		51
Window Construction Detail		Quantity	Sq Ft/Unit	STC
3'x5' wood-framed double hung wir one 7/16" glass panel and one storr strength upper sash 1 1/2" and lowe spaces	n sash glazed single	8	15	35
Add new window				

•	u	e.	 RESULS

Wall Statistics		
Stat	Value	
Area:	522 ft <sup>2</sup>	
Wall STC:	51	

#### **Aperture Statistics**

Aperture	Count	Area	% of wall
Windows:	8	120 ft <sup>2</sup>	22.99%
Doors:	0	0 ft²	0%

#### **Evaluation Criteria**

Criteria	Value
Noise source sound level (dB):	67
Combined STC for wall assembly:	41.03
Required STC rating:	25
Does wall assembly meet requirements?	Yes
	Print

יטוניד ווףט

What do you do if the preferred wall design is not sufficient to achieve the required attenuation? Another wall design with more substantial materials will work, but may not be the most cost-effective solution. Try adding some other elements for just a little more attenuation.

For example:

- Staggering the studs in a wall offers approximately 4dB of additional protection.
- Increasing the stud spacing from 16" on center to 24" can increase the STC from 2-5dB.
- Adding a 2" air space can provide 3dB more attenuation.
- Increasing a wall's air space from 3" to 6"can reduce noise levels by an additional 5dB.
- Adding a layer of ½" gypsum board on "Z" furring channels adds 2dB of attenuation.
- Using resilient channels and clips between wall panels and studs can improve the STC from 2-5dB.
- Adding a layer of 1/2" gypsum board on resilient channels adds 5dB of attenuation.
- Adding acoustical or isolation blankets to a wall's airspace can add 4-10dB of attenuation.
- A 1" rockwool acoustical blanket adds 3dB to the wall's STC.
- Filling the cells of lightweight concrete masonry units with expanded mineral loose-fill insulation adds 2dB to the STC.

#### ATTACHMENT A

NAL Location Map



9710-9730 W. Outer Drive, Detroit, MI

Noise Assessment Location Map

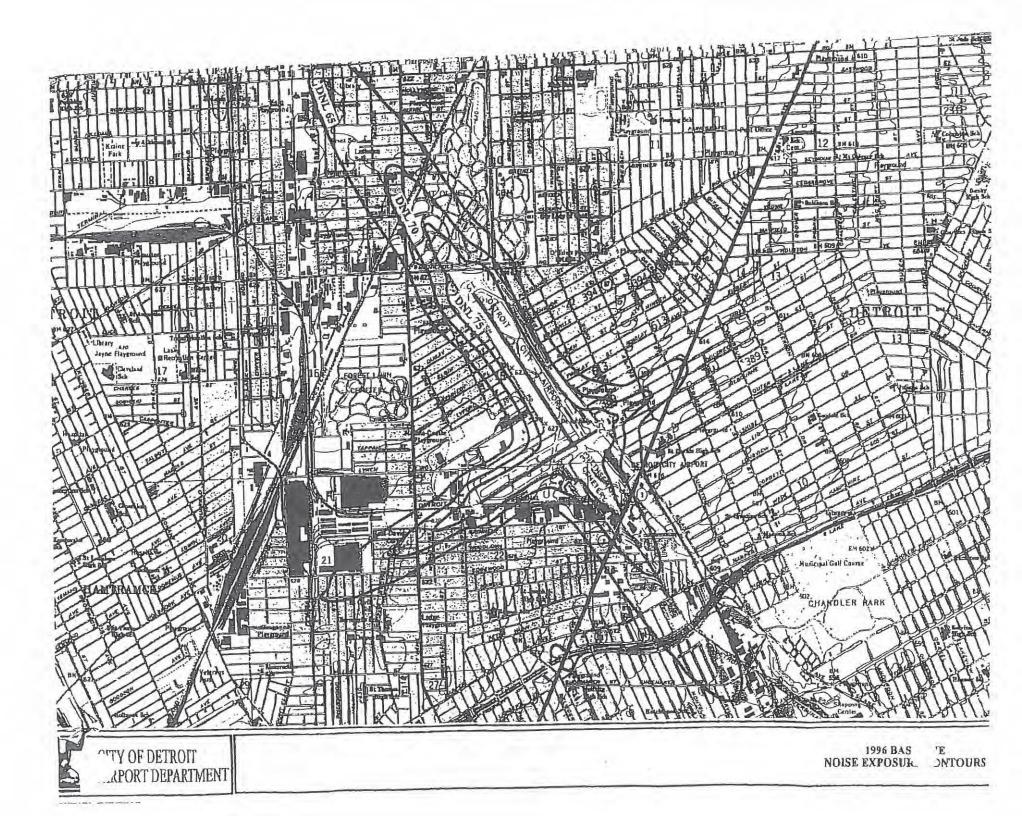
50 Feet

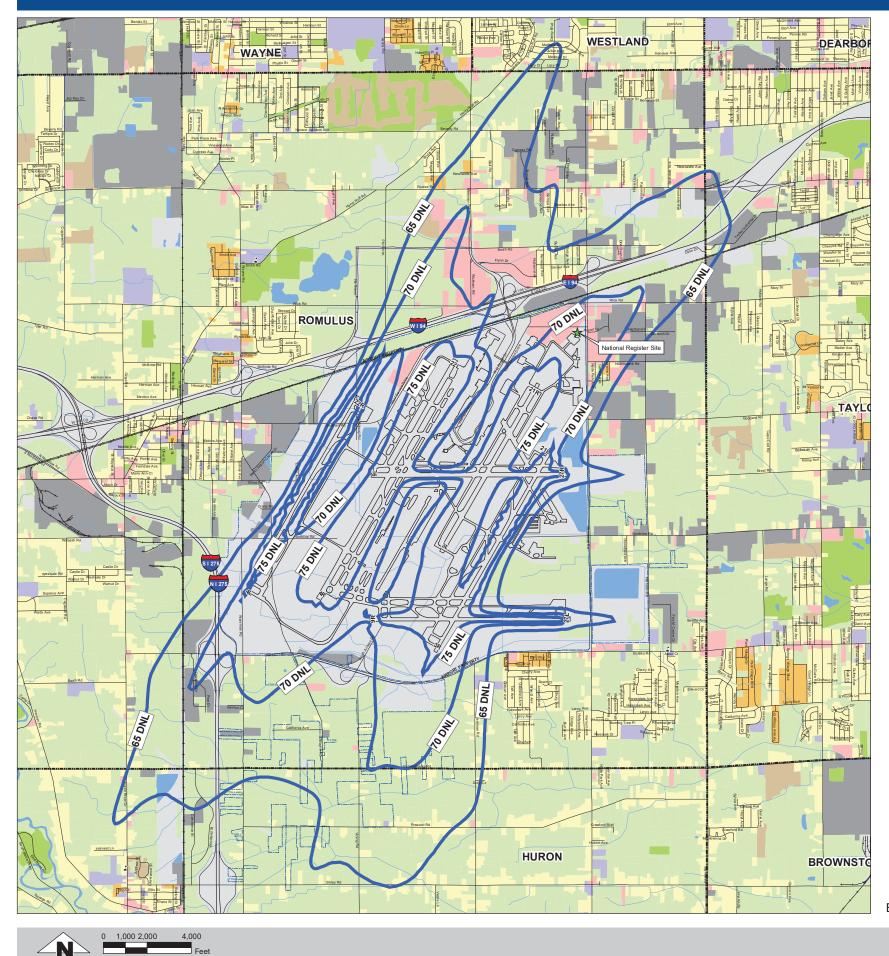
12.5 25

Created for: Grandmont Rosedale Development Corporation Created by: RMH, March 23, 2022, ASTI Project 1-11641

#### ATTACHMENT B

Airport Noise Contour Maps



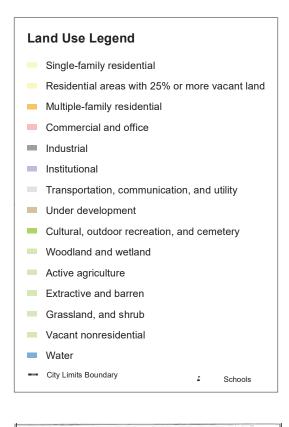


	Existing (2004)		
65-70 DNL	Population	Housing	
Huron Township	160	60	
Romulus	1,060	490	
Taylor	10	10	
Westland	110	50	
Subtotal	1,340	610	
70-75 DNL			
Romulus	40	20	
Subtotal	40	20	
65 DNL & Greater			
Huron Township	160	60	
Romulus	1,100	510	
Taylor	10	10	
Westland	110	50	
Subtotal	1,380	630	
60 DNL & Greater*			
Dearborn Heights	1,100	360	
Huron Twp.	2,460	920	
Inkster	4,420	1,870	
Romulus	4,340	1,810	
Sumpter Twp.	40	10	
Taylor	3,860	1,500	
Westland	2,970	1,250	
Total	19,190	7,720	

Note: no residential uses are located in the 75 DNL and greater contours. \* includes the 65 DNL & Greater

Based on 522,641 operations.

Figure D25 Existing (2004) Noise Exposure Map



The 65 DNL contour contains approximately 9,475 acres, 750 residential structures and 1,400 people. The 70 DNL contour contains approximately 4,505 acres, 30 residential structures and 40 people.

The 75 DNL contour contains approximately 1,580 acres, no residential structures and no people.

Planning jurisdictions are shown on the map.

Noise measurement sites and flight tracks are depicted on the Noise Measurement Sites and Flight Tracks Maps.

Residential land use, as defined by FAR Part 150, is an incompatible use without proper sound attenuation within the 65 DNL or greater contour.

The Noise Exposure Maps and accompanying documentation for the Noise Exposure Map for Detroit Metropolitan Wayne County Airport, submitted in accordance with FAR Part 150 with the best available information, are hereby certified as true and complete to the best of my knowledge and belief.

In addition, it is hereby certified that the public was afforded the opportunity to review and comment on the document and its contents Signed\_ State Weblinson Date 3-6-06

for digits less than 5, rounded to 10.





Source: Michigan Department of Natural Resources, SEMCOG

#### ATTACHMENT C

#### **AADT** Information

# Auto and Heavy Truck 10-year ADT Projections *Outer Drive West*

	Cars	% Change	Trucks	% Change
2017	5945		208	
2018	5988	0.7	165	-20.7
2019 2020		-1.7 -15.4	238 250	44.2 5.0
	Avg % change:	-5.5	Avg % change:	9.54
	Avg % change (Last 5-yr Trend):	-5.5	Avg % change (Last 5-yr Trend):	9.54
	% Change/Year Assumption	1	%/Year Change Assumption	1

2032 Projections

	Cars	Trucks
2014	4978	250
2015	5028	253
2016	5078	255
2016	5129	258
2017	5180	260
2018	5232	263
2019	5284	265
2020	5337	268
2021	5390	271
2022	5444	273
2023	5499	276
2024	5554	279
2025	5609	282
2026	5665	285
2027	5722	287
2028	5779	290

Predicted 2032 Auto ADT	Predicted 2032 Truck ADT
5779	290

# Auto and Heavy Truck 10-year ADT Projections Grand River Avenue

	Cars	% Change	Trucks	% Change
2016	29919		427	
2017	30158	0.8	522	22.2
2018	30067	-0.3	613	17.4
2019 2020		-14.4 -31.6	499 399	0.0 -34.9
	Avg % change:	-11.4	Avg % change:	1.19
	Avg % change (Last 5-yr Trend):	-11.4	Avg % change (Last 5-yr Trend):	1.19
	% Change/Year Assumption	1	%/Year Change Assumption	1

2032 Projections

[	Cars	Trucks
2014	20554	399
2015	20760	403
2016	20967	407
2016	21177	411
2017	21389	415
2018	21602	419
2019	21818	424
2020	22037	428
2021	22257	432
2022	22480	436
2023	22704	441
2024	22931	445
2025	23161	450
2026	23392	454
2027	23626	459
2028	23863	463

Predicted 2032 Auto ADT	Predicted 2032 Truck ADT
23863	463

#### ATTACHMENT D

Day-Night Level Electronic Assessments

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmentalreview/) > DNL Calculator

## **DNL** Calculator

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the Day/Night Noise Level Calculator Electronic Assessment Tool Overview (/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/).

## Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- Note #2: DNL Calculator assumes roadway data is always entered.

## **DNL Calculator**

Site ID	1-11641, 9710-9730 W. Outer Drive
Record Date	03/16/2022
User's Name	ASTI Environmental

Road # 1 Name:	Outer Drive West

#### Road #1

Vehicle Type	Cars 🗹	Medium Trucks	Heavy Trucks 🗹
Effective Distance	87		87
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	5779		290
Night Fraction of ADT	15		15
Road Gradient (%)			2
Vehicle DNL	58	0	65
Calculate Road #1 DNL	66	Reset	

Road # 2 Name:	Grand River Avenue	

#### Road #2

Vehicle Type	Cars 🗹	Medium Trucks	Heavy Trucks 🗹
Effective Distance	408		408
Distance to Stop Sign			
Average Speed	35		35
Average Daily Trips (ADT)	23863		463
Night Fraction of ADT	15		15
Road Gradient (%)			2
Vehicle DNL	54	0	57
Calculate Road #2 DNL	59	Reset	

Add Road Source Add Rail Source		
Airport Noise Level		
Loud Impulse Sounds?	⊖Yes <b>●</b> No	
Combined DNL for all Road and Rail sources	67	
Combined DNL including Airport	N/A	
Site DNL with Loud Impulse Sound		
Calculate Reset		

## **Mitigation Options**

If your site DNL is in Excess of 65 decibels, your options are:

- No Action Alternative Cancel the project at this location
- Other Reasonable Alternatives: Choose an alternate site
- Mitigation
  - Contact your Field or Regional Environmental Office(/programs/environmentalreview/hud-environmental-staff-contacts/)
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See *The Noise Guidebook* (/resource/313/hud-noise-guidebook/)
  - Construct noise barrier. See theBarrier Performance Module (/programs/environmental-review/bpm-calculator/)

## **Tools and Guidance**

Day/Night Noise Level Assessment Tool User Guide (/resource/3822/day-night-noise-level-assessment-tool-user-guide/)

Day/Night Noise Level Assessment Tool Flowcharts (/resource/3823/day-night-noise-level-assessment-tool-flowcharts/)

Home (/) > STraCAT

# Sound Transmission Classification Assessment Tool (STraCAT)

#### Overview

The Sound Transmission Classification Assessment Tool (STraCAT) is an electronic version of Figures 17 and 19 in The HUD Noise Guidebook. The purpose of this tool is to document sound attenuation performance of wall systems. Based on wall, window, and door Sound Transmission Classification (STC) values, the STraCAT generates a composite STC value for the wall assembly as a whole. Users can enter the calculated noise level related to a specific Noise Assessment Location in front of a building façade and STraCAT will generate a target required attenuation value for the wall assembly in STC. Based on wall materials, the tool will state whether the composite wall assembly STC meets the required attenuation value.

#### How to Use This Tool

#### Location, Noise Level and Wall Configuration to Be Analyzed

STraCAT is designed to calculate the attenuation provided by the wall assembly for one wall of one unit. If unit exterior square footage and window/door configuration is identical around the structure, a single STraCAT may be sufficient. If units vary, at least one STraCAT should be completed for each different exterior unit wall configuration to document that all will achieve the required attenuation. Additionally, if attenuation is not based on a single worst-case NAL, but there are multiple NALs which require different levels of attenuation around the structure, a STraCAT should be completed for each differing exterior wall configuration associated with each NAL.

Exterior wall configurations associated with an NAL include those with parallel (facing) or nearparallel exposure as well as those with perpendicular exposure. When a façade has parallel or perpendicular exposure to two or more NALs, you should base the required attenuation on the NAL with the highest calculated noise level. For corner units where the unit interior receives exterior noise through two facades, the STraCAT calculation should incorporate the area of wall, window and door materials pertaining to the corner unit's total exterior wall area (i.e., from both walls).

#### Information to Be Entered

Users first enter basic project information and the NAL noise level that will be used as the basis for required attenuation. This noise level must be entered in whole numbers. STraCAT users then enter information on wall, window and door component type and area. Again, as noted above, the wall, window and door entries are based on one unit, and one wall (except for corner units as discussed above). The tool sums total wall square footage based on the combined area of walls, doors and windows for the façade being evaluated.

Users may input STC values for materials in one of two ways. The tool includes a dropdown menu

of common construction materials with STC values prefilled. If selected construction materials are not included in this dropdown menu, the user may also enter the STC for a given component manually. Verification of the component STC must be included in the ERR. Documentation includes the architect or construction manager's project plans showing wall material specifications. For new construction or for components that will be newly installed in an existing wall, documentation also includes the manufacturer's product specification sheet (cut sheet) documenting the STC rating of selected doors and windows.

#### Required STC Rating and Determination of Compliance

Finally, based on project information entered the tool will indicate the required STC rating for the wall assembly being evaluated and whether or not the materials specified will produce a combined rating that meets this requirement. Note that for noise levels above 75 dB DNL, either HUD (for 24 CFR Part 50 reviews) or the Responsible Entity (for 24 CFR Part 58 reviews) must approve the level and type of attenuation, among other processing requirement <u>Required attenuation values generated by STraCAT for NALs above 75 dB DNL should therefore be considered tentative pending approval by HUD or the RE.</u>

· .	
Project	
9710-9730 West Outer Dr.	
Sponsor/Developer	
Grandmont Rosedale	
Location	
Detroit, MI	
Prepared by	
B. Buckley, ASTI Env.	
Noise Level	
67	
Date	
3/29/2022	
Primary Source(s)	
ASTI Noise Assessment	

Wall Construction Detail	A	rea		STC
4x8x18" concrete block with commo mortared together	on brick all	522		51
Add new wall				
	5	22 Sq. Feet		51
Window Construction Detail		Quantity	Sq Ft/Unit	STC
3'x5' wood-framed double hung wir one 7/16" glass panel and one storr strength upper sash 1 1/2" and lowe spaces	n sash glazed single	8	15	35
Add new window				

•	u	e.	 RESULS

Wall Statistics			
Stat	Value		
Area:	522 ft <sup>2</sup>		
Wall STC:	51		

#### **Aperture Statistics**

Aperture	Count	Area	% of wall
Windows:	8	120 ft <sup>2</sup>	22.99%
Doors:	0	0 ft²	0%

#### **Evaluation Criteria**

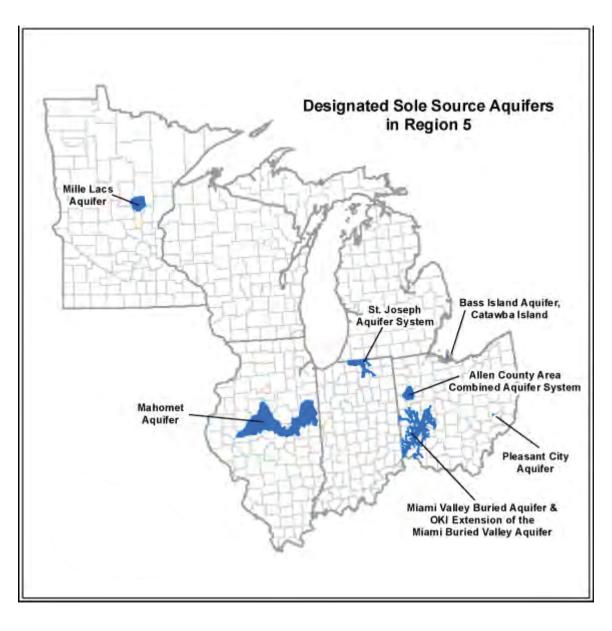
Criteria	Value
Noise source sound level (dB):	67
Combined STC for wall assembly:	41.03
Required STC rating:	25
Does wall assembly meet requirements?	Yes
	Print

יטוניד ווףט

What do you do if the preferred wall design is not sufficient to achieve the required attenuation? Another wall design with more substantial materials will work, but may not be the most cost-effective solution. Try adding some other elements for just a little more attenuation.

For example:

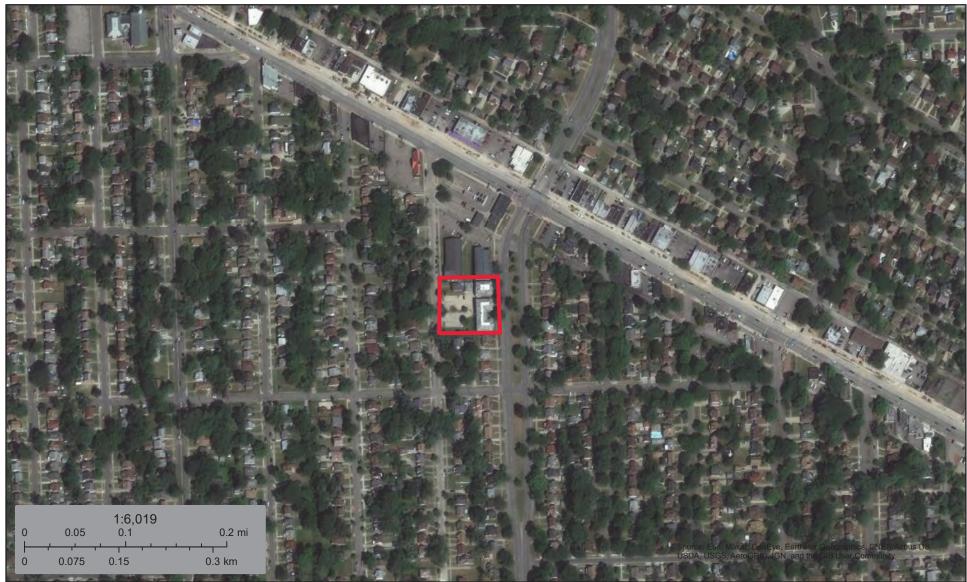
- Staggering the studs in a wall offers approximately 4dB of additional protection.
- Increasing the stud spacing from 16" on center to 24" can increase the STC from 2-5dB.
- Adding a 2" air space can provide 3dB more attenuation.
- Increasing a wall's air space from 3" to 6"can reduce noise levels by an additional 5dB.
- Adding a layer of ½" gypsum board on "Z" furring channels adds 2dB of attenuation.
- Using resilient channels and clips between wall panels and studs can improve the STC from 2-5dB.
- Adding a layer of 1/2" gypsum board on resilient channels adds 5dB of attenuation.
- Adding acoustical or isolation blankets to a wall's airspace can add 4-10dB of attenuation.
- A 1" rockwool acoustical blanket adds 3dB to the wall's STC.
- Filling the cells of lightweight concrete masonry units with expanded mineral loose-fill insulation adds 2dB to the STC.





### U.S. Fish and Wildlife Service National Wetlands Inventory

## 9710-9730 Outer Drive West



#### March 16, 2022

#### Wetlands



Estuarine and Marine Deepwater

Estuarine and Marine Wetland

- Freshwater Forested/Shrub Wetland
  - Freshwater Pond

Freshwater Emergent Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

#### Michigan





Michigan has approximately 51,438 miles of river, of which 656.4 miles are designated as wild & scenic—just a bit more than 1% of the state's river miles.

NATIONAL SYSTEM MANAGEMENT RESOURCES PUBLICATIONS CONTACT US 50 YEARS SITE INDEX



Choose A State ♥ Go Choose A River ♥ Go

Nourished by the fertile soils of the region, rivers of the Midwest explode with life, from great avian migrations to ancient fishes.

Project Location

+ View larger map

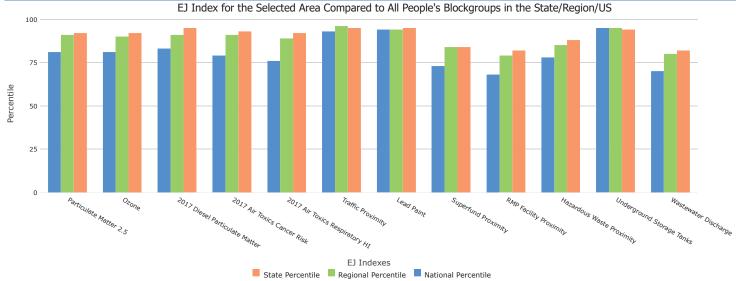
AuSable River Bear Creek Black River Carp River Indian River **Manistee River Ontonagon River** Paint River Pere Marquette River **Pine River Presque Isle River** Sturgeon River (Hiawatha National Forest) Sturgeon River (Ottawa National Forest) Tahquamenon River (East Branch) Whitefish River Yellow Dog River



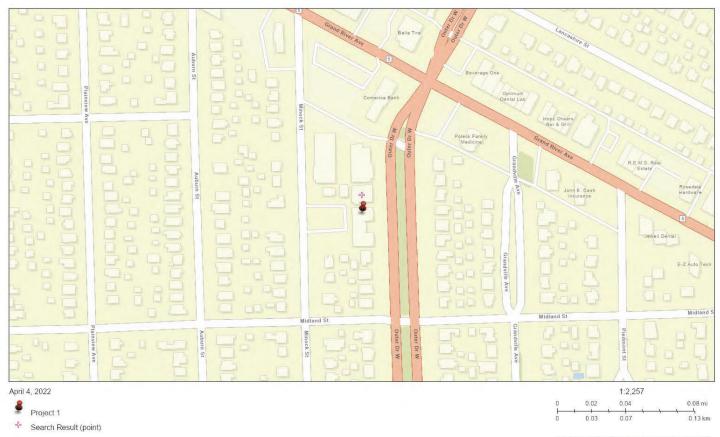


#### EJScreen Report (Version 2.0) 1 mile Ring Centered at 42.405286,-83.233244 MICHIGAN, EPA Region 5 Approximate Population: 19,476 Input Area (sq. miles): 3.14

Selected Variables	Percentile in State	Percentile in EPA Region	Percentile in USA
Environmental Justice Indexes			•
EJ Index for Particulate Matter 2.5	92	91	81
EJ Index for Ozone	92	90	81
EJ Index for 2017 Diesel Particulate Matter*	95	91	83
EJ Index for 2017 Air Toxics Cancer Risk*	93	91	79
EJ Index for 2017 Air Toxics Respiratory HI*	92	89	76
EJ Index for Traffic Proximity	95	96	93
EJ Index for Lead Paint	95	94	94
EJ Index for Superfund Proximity	84	84	73
EJ Index for RMP Facility Proximity	82	79	68
EJ Index for Hazardous Waste Proximity	88	85	78
EJ Index for Underground Storage Tanks	94	95	95
EJ Index for Wastewater Discharge	82	80	70



This report shows the values for environmental and demographic indicators and EJScreen indexes. It shows environmental and demographic raw data (e.g., the estimated concentration of ozone in the air), and also shows what percentile each raw data value represents. These percentiles provide perspective on how the selected block group or buffer area compares to the entire state, EPA region, or nation. For example, if a given location is at the 95th percentile nationwide, this means that only 5 percent of the US population has a higher block group value than the average person in the location being analyzed. The years for which the data are available, and the methods used, vary across these indicators. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports.



Esri Community Maps Contributors, Province of Ontario, SEMCOG, © OpenStreetMap, Microsoft, Esri Canada, Esri, HERE, Garmin, SafeGraph, Geotechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

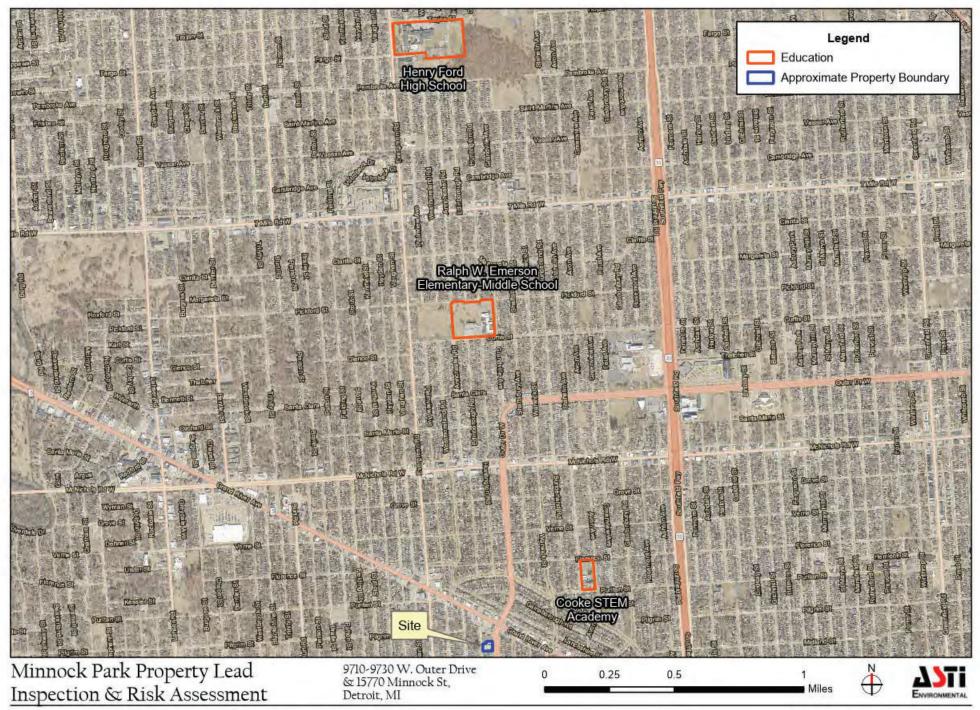
Sites reporting to EPA	
Superfund NPL	0
Hazardous Waste Treatment, Storage, and Disposal Facilities (TSDF)	0

Selected Variables	Value	State		EPA Region		USA	
	Value	Avg.	%tile	Avg.	%tile	Avg.	%tile
Pollution and Sources							
Particulate Matter 2.5 (µg/m³)	10	8.75	92	8.96	83	8.74	83
Ozone (ppb)	45.1	43.8	78	43.5	72	42.6	76
2017 Diesel Particulate Matter* (µg/m³)	0.414	0.209	96	0.279	80-90th	0.295	70-80th
2017 Air Toxics Cancer Risk* (lifetime risk per million)	30	23	99	24	95-100th	29	80-90th
2017 Air Toxics Respiratory HI*	0.3	0.25	99	0.3	70-80th	0.36	<50th
Traffic Proximity (daily traffic count/distance to road)	2300	830	92	610	95	710	93
Lead Paint (% Pre-1960 Housing)	0.87	0.37	92	0.37	93	0.28	96
Superfund Proximity (site count/km distance)	0.036	0.15	18	0.13	28	0.13	32
RMP Facility Proximity (facility count/km distance)	0.13	0.53	30	0.83	17	0.75	21
Hazardous Waste Proximity (facility count/km distance)	1.1	1.1	63	1.8	54	2.2	58
Underground Storage Tanks (count/km <sup>2</sup> )	16	7.3	84	4.8	91	3.9	94
Wastewater Discharge (toxicity-weighted concentration/m distance)	2.8E-05	0.41	23	9	21	12	23
Socioeconomic Indicators							
Demographic Index	67%	28%	91	28%	92	36%	88
People of Color	94%	25%	95	26%	95	40%	92
Low Income	41%	32%	70	29%	74	31%	70
Unemployment Rate	15%	6%	91	5%	93	5%	93
Linguistically Isolated	1%	2%	67	2%	62	5%	47
Less Than High School Education	10%	9%	65	10%	64	12%	55
Under Age 5	5%	6%	48	6%	44	6%	43
Over Age 64	18%	17%	62	16%	65	16%	68

\*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 2017 Air Toxics Data Update, which is the Agency's ongoing, comprehensive evaluation of air toxics in the United States. This effort aims to prioritize air toxics, emission sources, and locations of interest for further study. It is important to remember that the air toxics data presented here provide broad estimates of health risks over geographic areas of the country, not definitive risks to specific individuals or locations. Cancer risks and hazard indices from the Air Toxics Data Update are reported to one significant figure and any additional significant figures here are due to rounding. More information on the Air Toxics Data Update can be found at: https://www.epa.gov/haps/air-toxics-data-update. (https://www.epa.gov/haps/air-toxics-data-update)

#### For additional information, see: www.epa.gov/environmentaljustice (https://www.epa.gov/environmentaljustice)

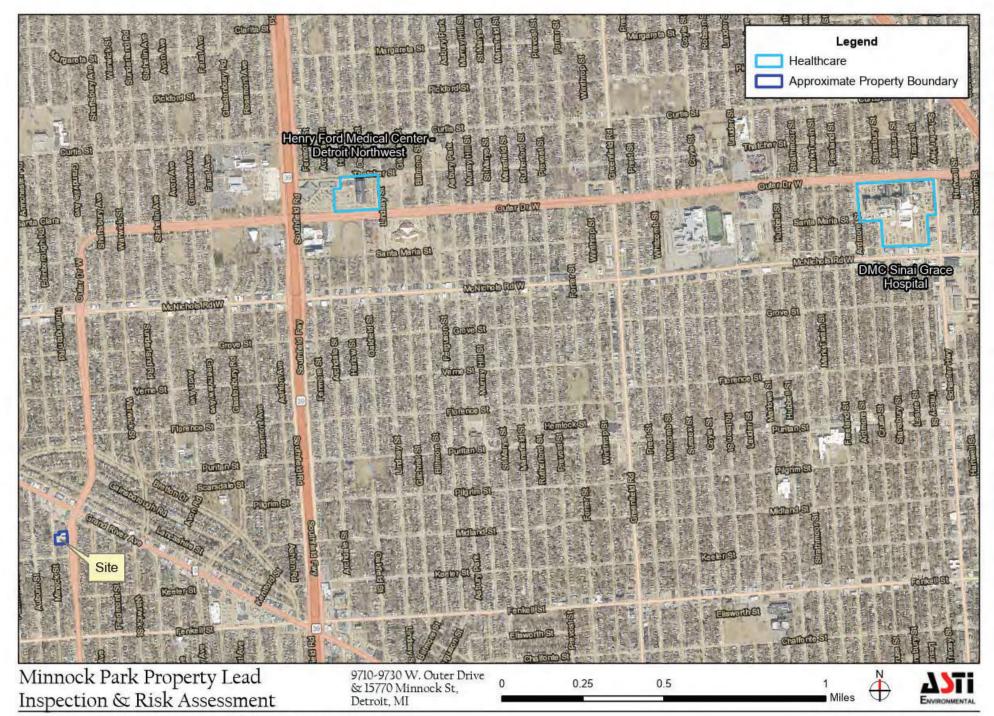
EJScreen is a screening tool for pre-decisional use only. It can help identify areas that may warrant additional consideration, analysis, or outreach. It does not provide a basis for decision-making, but it may help identify potential areas of EJ concern. Users should keep in mind that screening tools are subject to substantial uncertainty in their demographic and environmental data, particularly when looking at small geographic areas. Important caveats and uncertainties apply to this screening-level information, so it is essential to understand the limitations on appropriate interpretations and applications of these indicators. Please see EJScreen documentation for discussion of these issues before using reports. This screening tool does not provide data on every environmental impact and demographic factor that may be relevant to a particular location. EJScreen outputs should be supplemented with additional information and local knowledge before taking any action to address potential EJ concerns.



EA Factors - Education



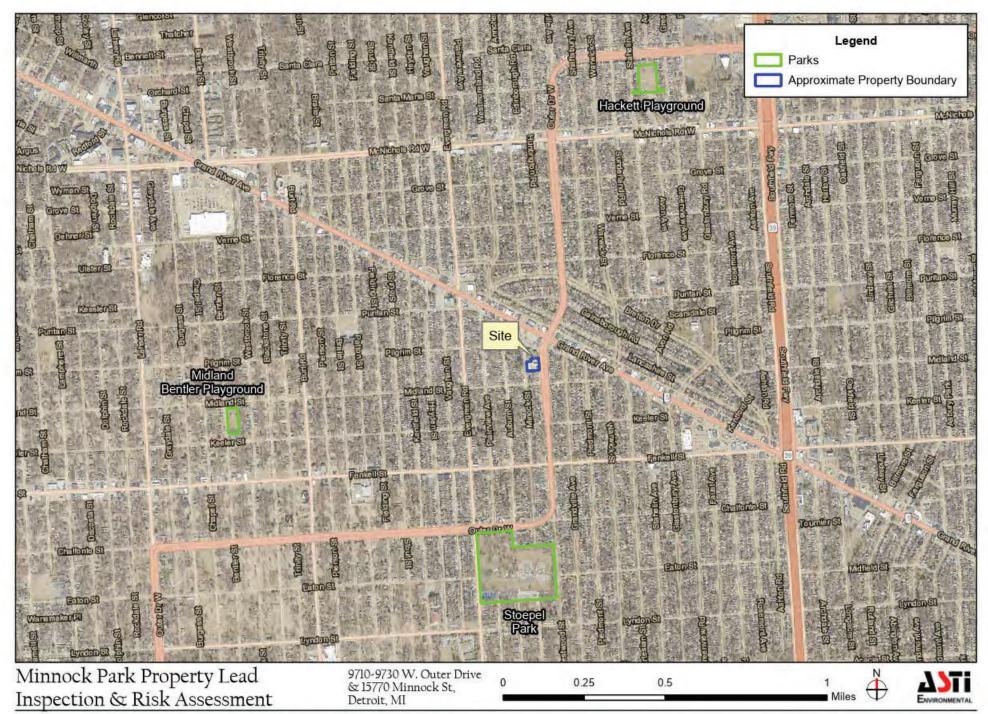
EA Factors - Commercial Facilities



EA Factors - Healthcare



EA Factors - Public Safety



EA Factors - Nearby Parks