

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

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Environmental Review for Activity/Project that is Categorically Excluded Subject to Section 58.5 Pursuant to 24 CFR 58.35(a)

Project Information

Project Name: Iroquois Terrace

Responsible Entity: City of River Rouge

Grant Recipient (if different than Responsible Entity): River Rouge Housing Commission

State/Local Identifier: River Rouge, Michigan

Preparer: PM Environmental

Certifying Officer Name and Title: William L. Campbell, Mayor

Grant Recipient (if different than Responsible Entity): River Rouge Housing Commission

Consultant (if applicable): PM Environmental

Direct Comments to: Office of the Mayor, 313-842-4200

Project Location: Located along Goodall Street (197, 199, 201, 205, 207, 209, 211, 224, 226, 227, 228, 229, 230, 231, 232, 234, 244, 246, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 260, 270, 271, 272, 273, 274, 275, 276, 277, 288, 289, 290, 291, 292, 293, 294, 295, 296, 299, 301, 303, 305, 307, 309, 311, 312, 313, 315, 316, 317, 318, 319, 321, 323, 324, 325, 326 Goodall Street), River Rouge, Wayne County, Michigan

Description of the Proposed Project [24 CFR 50.12 & 58.32; 40 CFR 1508.25]**:** The project includes complete rehabilitation of the existing apartment complex. Planned project activities include high performance, energy efficient upgrades to HVAC, electrical and plumbing systems, including fixtures. Exterior activities will include repair and replacement of existing brick veneer, including tuck pointing, and repair or replacement of extant siding. Existing roofing will be replaced, and new insulated double hung vinyl windows will be installed. Exterior lighting will be upgraded. There will be some in-kind sidewalk repair. Interior rehabilitation will include fully renovated kitchens and bathrooms, new flooring, new cabinetry, security systems and new Energy Star appliances.

Site plans are included as Attachment 1, site locations maps are included as Attachment 2, and site photos are included as Attachment 3.

Level of Environmental Review Determination:

Categorically Excluded per 24 CFR 58.35(a), and subject to laws and authorities at §58.5:

Funding Information

Estimated Total HUD Funded Amount: 84 Project Based Vouchers

Estimated Total Project Cost (HUD and non-HUD funds) [24 CFR 58.32(d)]: \$7,117,107

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

Record below the compliance or conformance determinations for each statute, executive order, or regulation. Provide credible, traceable, and supportive source documentation for each authority. Where applicable, complete the necessary reviews or consultations and obtain or note applicable permits of approvals. Clearly note citations, dates/names/titles of contacts, and page references. Attach additional documentation as appropriate.

Compliance Factors : Statutes, Executive Orders, and Regulations listed at 24 CFR §58.5 and §58.6	Are formal compliance steps or mitigation required?	Compliance determinations	
STATUTES, EXECUTIVE OR 58.6	DERS, AND RE	EGULATIONS LISTED AT 24 CFR 50.4 &	
Airport Hazards 24 CFR Part 51 Subpart D	Yes No	The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. Source documentation is included as attachment 4.	
Coastal Barrier Resources Coastal Barrier Resources Act, as amended by the Coastal Barrier Improvement Act of 1990 [16 USC 3501]	Yes No	Review of the John H. Chafee Coastal Barri Resources System Map and the U.S. Fish a Wildlife Service online Coastal Barri Resource Mapper, documents the subje property is not located within a designat coastal barrier boundary. Sour documentation is included as attachment 5.	
Flood Insurance Flood Disaster Protection Act of 1973 and National Flood Insurance	Yes No	According to a Federal Emergency Management Agency (FEMA) floodplain map, dated October 21, 2021 (Map number 26163C0269F), the subject property is	

Reform Act of 1994 [42 USC 4001-4128 and 42 USC 5154a]	located in "Zone X (Unshaded)", defined as areas of minimal risk outside the 100-year (1% annual chance) and 500-year (0.2% annual chance) floodplains. PM did not observe any sensitive ecological areas on the subject property, including potential wetlands, during the site reconnaissance. Furthermore, topographical features present in the subject property area are not representative of a floodplain
	in the subject property area are not representative of a floodplain.
	Documentation of the floodplain map is included as Attachment 6.

STATUTES, EXECUTIVE ORDERS, AND REGULATIONS LISTED AT 24 CFR 50.4 & 58.5

Clean Air Clean Air Act, as amended, particularly section 176(c) & (d); 40 CFR Parts 6, 51, 93	Yes No	According to the July 2023 Michigan National Ambient Air Quality Standards (NAAQS) Attainment Status Map, published by the Michigan Department of Environment, Great Lakes and Energy (EGLE) Air Quality Division (AQD), the entire State of Michigan is currently an attainment area for carbon monoxide, nitrogen dioxide, lead, and particulate matter. Wayne County is currently in non-attainment for ozone and a portion of Wayne County is in non-attainment for sulfur dioxide. Based on the lack of construction or use conversion, compliance with the State Implementation Plan (SIP) is not required. Source documentation is included as attachment 7.
Coastal Zone Management Coastal Zone Management Act, sections 307(c) & (d)	Yes No	Review of the Wayne County Coastal Zone Management map and the Coastal Zone Management Area map documents the subject property is not located within a designated Coastal Zone Management area. Source documentation is included as attachment 8.
Contamination and Toxic Substances 24 CFR Part 50.3(i) & 58.5(i)(2)	Yes No	No high pressure buried gas lines (4" diameter or greater and 400 psi or higher) are located within 1,000 feet of the subject property.

Radon

Review of the CDC National Environmental Public Health Tracking Network map indicates Wayne County the annual mean premitigation radon measurement in tested buildings for the most recent 10-year period as 2.6 pCi/L. Additionally, PM completed a Radon Assessment of the subject buildings in March 2024 in accordance with HUD requirements. Analytical results documented all tested units were below the U.S. EPA Action Level of 4.0 pCi/L. Therefore, no additional investigation is necessary at this time.

Asbestos

PM completed a Pre-Renovation Asbestos Containing Materials Survey in March 2024, which included the collection of 637 samples from 355 different homogonous areas. Results included various asbestos in flooring and associated mastic, pipe insulation and fittings, window caulking, door caulking, etc. Roofing materials, mudded fittings and millboard insulation, and transite panels were assumed to contain ACM.

Lead Based Paint

PM completed a Lead-Based Paint Inspection and Risk Assessment Report in April 2024. Lead Dust Hazards and deteriorated LBP on door headers, address plates, and several units were identified throughout the buildings. Additionally, X-Ray Fluorescence documented LBP on door headers, address plates, window sills, walls, ceilings, and aluminum siding throughout the building. No lead soil hazards were identified.

Phase I ESA

PM completed a Phase I ESA in June 2023, which documented the north-central and central portions were developed with single

		family dwellings between 1941 and 1949. The dwellings were demolished and the current buildings were constructed in the 1950s and 1960s. The current buildings have been residential since construction. No onsite Recognized Environmental Conditions (RECs) were identified. However, an adjoining property (221 Goodall Street) was occupied by factory operations or unknown operations from construction in 1962 to the 1990s.
		Phase II ESA
		Based on the REC identified, a Phase II ESA was completed, which consisted of the advancement of two soil borings to 20.0 feet below ground surface (bgs) and installation of two in-boring soil gas points. No groundwater was encountered. Three soil samples and two soil-gas samples were collected and submitted for laboratory analysis for volatile organic compounds (VOCs) and/or polynuclear aromatic compounds (PNAs). Analytical results were below method detection limits (MDLs), Part 201 Generic Cleanup Criteria (GCCs), and/or Volatilization to Indoor Air Pathway screening levels. Therefore, no additional investigation is necessary.
		Source documentation:
		Radon map – Attachment 9
		Adobe Tab:
		1 Radon Survey
		2 Asbestos Survey
		3 Lead Based Paint Survey
		4 Phase I ESA
		5 Phase II ESA
Endangered Species	Yes No	The U.S. Fish and Wildlife service provided
Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402		information on locations of threatened and endangered species for the Project. In addition, a review using the U.S. Fish and

		Wildlife Service IPAC online system was completed. Species listed for Wayne County include: the Indiana Bat, Tricolored Bad, Rufa Red Knot, Eastern Massasauga, Northern Riffleshell, Monarch Butterfly, and the Eastern Prairie Fringed Orchid. None of the state-listed threatened or endangered species were observed at the property. No federally listed threatened or endangered species or unique features are present at the Project and no Critical Habitats are present. The subject property and/or general area have been developed since at least the 1940s. Given this, the Project does not appear to have an adverse effect on an endangered/threatened species or critical habitat. Source documentation is included as Attachment 10.
Explosive and Flammable Hazards 24 CFR Part 51 Subpart C	Yes No	Review of reasonably ascertainable standard and other historical sources, and site observations, have not identified the current and historical presence of aboveground storage tanks (ASTs)/55-gallon drum storage on the property. In accordance with HUD's Guidebook entitled "Siting of HUD-Assisted Projects Near Hazardous Facilities" (hereafter "Guidebook"), PM searched a one-mile radius around the subject property for ASTs containing flammable materials. Several nearby ASTs were identified; however, none are within a distance (i.e., greater than 800 feet) that require the calculation of acceptable separation distance (ASD) for thermal radiation and/or blast overpressure. Source
Farmlands Protection Farmland Protection Policy Act of 1981, particularly sections 1504(b) and 1541; 7 CFR Part 658	Yes No	documentation included as attachment 11. Review of the USDA Web Soil Survey indicates this Project does not affect any prime or unique farmland. The subject property is located within an "urbanized" area. Therefore, the Project is not subject to the statutory or regulatory requirements.

		Source documentation included as attachment 12.	
Floodplain Management Executive Order 11988, particularly section 2(a); 24 CFR Part 55	Yes No	According to a Federal Emergency Management Agency (FEMA) floodplain map, dated October 21, 2021 (Map number 26163C0269F), the subject property is located in "Zone X (Unshaded)", defined as areas of minimal risk outside the 100-year (1% annual chance) and 500-year (0.2% annual chance) floodplains. PM did not observe any sensitive ecological areas on the subject property, including potential wetlands, during the site reconnaissance. Furthermore, topographical features present in the subject property area are not representative of a floodplain. Documentation of the floodplain map is included as Attachment 6.	
Historic Preservation National Historic Preservation Act of 1966, particularly sections 106 and 110; 36 CFR Part 800	Yes No	A Section 106 application was submitted to the Michigan State Historic Preservation Office (SHPO) to determine if the Project will adversely impact the subject property or area of potential effect (APE). A final determination letter dated June 10, 2024, was received indicating no historic properties are affected with the project. Source documentation: Adobe Tab: 6 Section 106 Application Attachment 12 SUBO response latter	
Noise Abatement and Control Noise Control Act of 1972, as amended by the Quiet Communities Act of 1978; 24 CFR Part 51 Subpart B	Yes No	Attachment 13 SHPO response letter PM completed a Desktop Noise Assessment in June 2023. One Noise Assessment Location (NAL) – southeast corner of the southern-most building - was used for analysis based on proximity to noise sources. Using the HUD DNL calculator, the combined DNL for NAL #1 was calculated as 67 decibels, which is Normally Unacceptable All sites where 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. In PM's past experience with developed properties, normally unacceptable noise levels for buildings that are already developed and occupied are not automatic reasons to exclude a property. 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 (HUD generally gives a 1 dB variance up to 76 dB).
		Source documentation: The Desktop Noise Assessment is located within Section 10.7 of the Phase I ESA (within Adobe Tab)
Sole Source Aquifers Safe Drinking Water Act of 1974, as amended, particularly section 1424(e); 40 CFR Part 149	Yes No	There are no sole source aquifers located in Detroit or Wayne County. Source documentation is included as Attachment 14.
Wetlands Protection Executive Order 11990, particularly sections 2 and 5	Yes No	PM did not observe any wet areas potentially associated with wetlands on the subject property during the site reconnaissance. In addition, review of the National Wetlands Inventory (NWI) Maps from the U.S. Fish and Wildlife Service and the EGLE Wetlands Map Viewer, did not identify any wetlands on the subject property. Any construction activities proposed in a wetland (regulated or unregulated) or in a 100-year flood plain area or where site contamination cannot be effectively remediated or mitigated are strongly discouraged and may be prohibited

		from the use of federal funds. Source documentation is included as attachment 15.		
Wild and Scenic Rivers Wild and Scenic Rivers Act of 1968, particularly section 7(b) and (c)	Yes No	The National Wild and Scenic Rivers System map (maintained and managed by the Bureau of Land Management, National Park Service, U.S. Fish and Wildlife Service and U.S. Forest Service) were reviewed to determine if the subject property is within a designated wild and scenic river area. There are no wild or scenic rivers located within the City of Detroit or Wayne County. Source documentation is included as attachment 16.		
ENVIRONMENTAL JUSTICE	1			
Executive Order 12898	Yes No	This Project will not have a disproportionately high adverse effect on human health or environment of minority populations and/or low-income populations. The buildings will serve the community for quality and safe living spaces. The project is in the City of River Rouge, which is made up of 66% ethnic minorities. The project will improve the ascetics of the area and has potential to be a catalyst for the area. No persons will be displaced due to this Project. The Project is in compliance with Executive Order 12898. Source documentation is included as attachment 17.		

Field Inspection (Date and completed by): April 27, 2023, by David Balash

Summary of Findings and Conclusions: The proposed work includes a full renovation of the property, which will enhance the area and be a potential catalyst for properties in the area.

Mitigation Measures and Conditions [40 CFR 1505.2(c)]

Summarize below 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
Asbestos Containing Materials	 PM has identified the following conclusions and recommendations: The results of the survey indicate that ACM were identified within the subject property, which, if impacted by renovation activities or based on condition, will require removal by a licensed abatement contractor. An asbestos abatement work plan must be put in place before asbestos removal activities. If any ACM remain in place after renovation activities, an Operations and Maintenance (O&M) program must be put in place to manage these materials and the health hazards they pose. PM notes that if additional suspect materials are identified during renovation, that these materials should be sampled to determine their characteristics (i.e., whether they must be treated as ACM or not) or assumed to be ACM and handled accordingly prior to their removal and disposal.
	PM's reporting of quantities of materials are to be interpreted as good faith estimates for contractors inspecting and bidding on project abatement and/or renovation activities; however, contractors should use their own estimates of material quantities as a basis for their project cost estimates.
	PM must be notified in advance when renovations are to start and be involved with a "project kick off meeting" with the client and contractors prior to the start of renovations. If any other materials are identified during renovation that have not already been sampled, or if the renovation plans change, PM needs to be notified immediately to provide additional guidance.
Lead Based Paint	PM identified lead hazards on various walls, ceilings, floors, windowsills, window troughs, exterior door headers and exterior address plates throughout the subject property. These components should be adequately cleaned, and the LBP should be stabilized as an interim control by trained staff using proper lead safe work practices. Trained staff may also replace or encapsulate these building components as an abatement option. All soil samples were less than established regulatory limits

	and therefore, no lead soil hazards were identified as part of this assessment.
	A a Lead Mitigation Work Plan is recommended to address any remaining LBP and lead hazards after the renovations are complete. PM can also provide clearance testing after cleaning or replacement has been completed prior to occupancy.
	As part of mitigation work, all activities should be done by a licensed abatement contractor or an U.S. EPA- certified renovator under the Renovation, Repair and Painting (RRP) rule
Noise Mitigation	Completion of a STraCAT or Figure 19 to confirm the interior standard of 45 dB.

Determination:

- This categorically excluded activity/project converts to Exempt, per 58.34(a)(12) because there are no circumstances which require compliance with any of the federal laws and authorities cited at §58.5. Funds may be committed and drawn down after certification of this part for this (now) EXEMPT project; OR
- This categorically excluded activity/project cannot convert to Exempt because there are circumstances which require compliance with one or more federal laws and authorities cited at §58.5. Complete consultation/mitigation protocol requirements, **publish NOI/RROF and obtain** "Authority to Use Grant Funds" (HUD 7015.16) per Section 58.70 and 58.71 before committing or drawing down any funds; OR
- This project is now subject to a full Environmental Assessment according to Part 58 Subpart E due to extraordinary circumstances (Section 58.35(c)).

Jackyn Schafer

Preparer Signature:

__Date:__6/26/2024___

Name/Title/Organization: _Jackie Schafer, Affordable Housing Coordinator, PM Environmental

Responsible Entity Agency Official Signature:

_____Date:_____

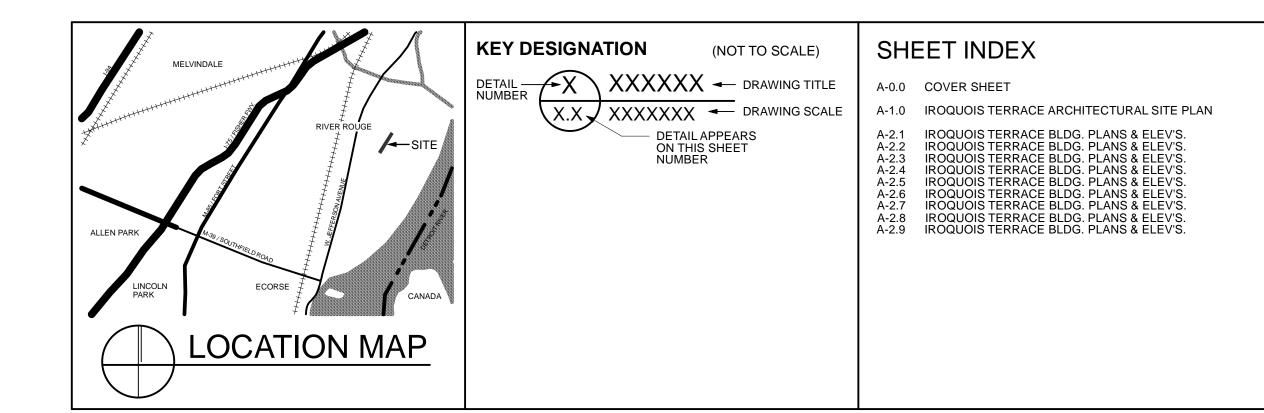
Name/Title:

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

Attachment 1



River Rouge Housing Commission Iroquois Terrace



Goodell St., River Rouge, Michigan

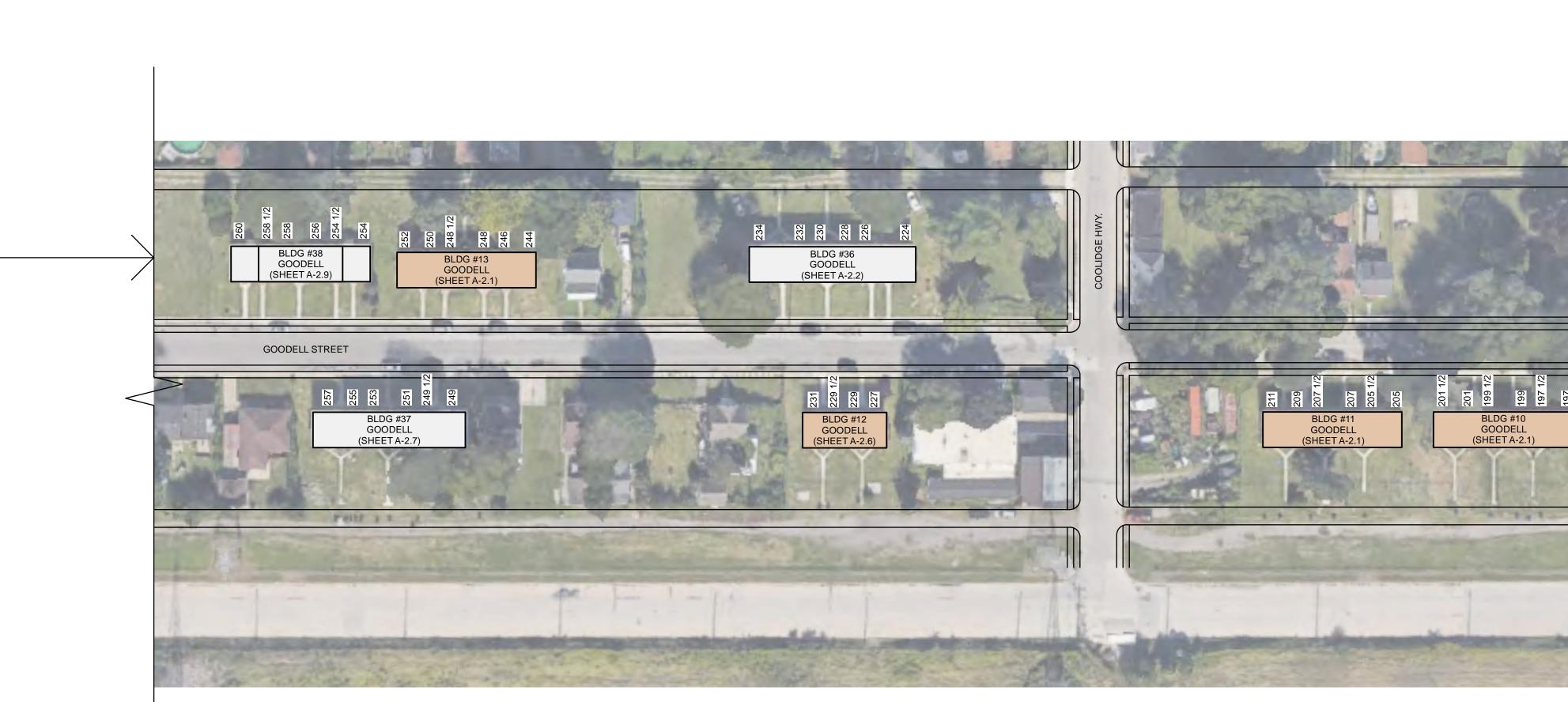


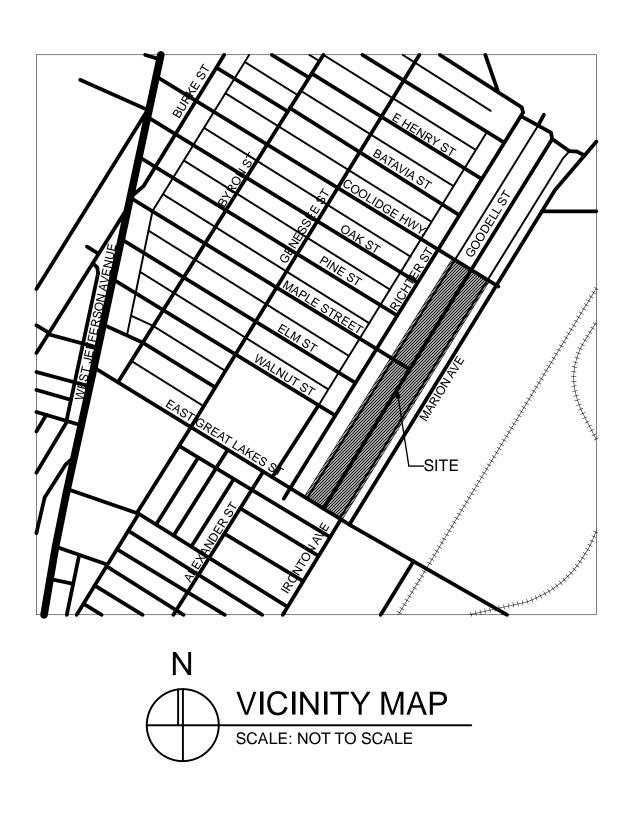
cover sheet

ISSUED: 08/24/23







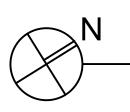




River Rouge Housing Commission River Rouge, Michigan



ISSUED:



SITE PLAN -IROQUOIS TERRACE SCALE: 1" = 60'-0" DRAWN BY: MC APPROVED BY: ?? JOB NUMBER

43041 Sheet NUMBER

A-1.0

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Building #18 - Front



Building #18 - Rear



Building #18 - Left Building #18 - Right



Building #15 - Front



Building #15 - Rear





Building #13 - Front



Building #13 - Rear



Building #13 - Left Building #13 - Right



Building #11 - Front



Building #11 - Rear

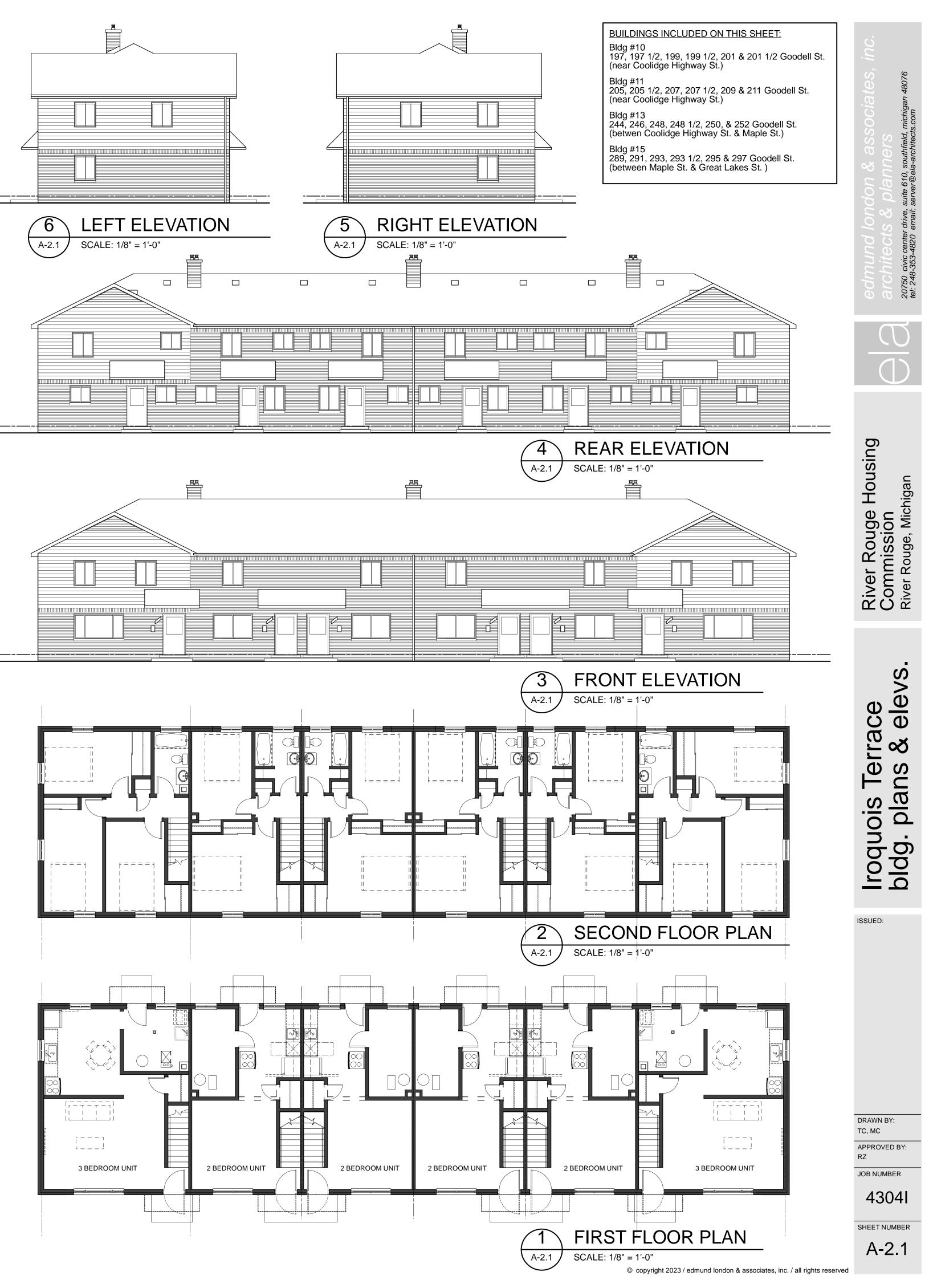




Building #10 - Front



Building #10 - Rear











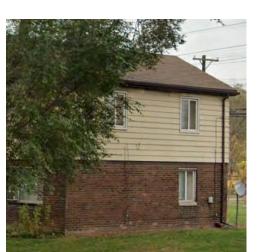


Building #11 - Left

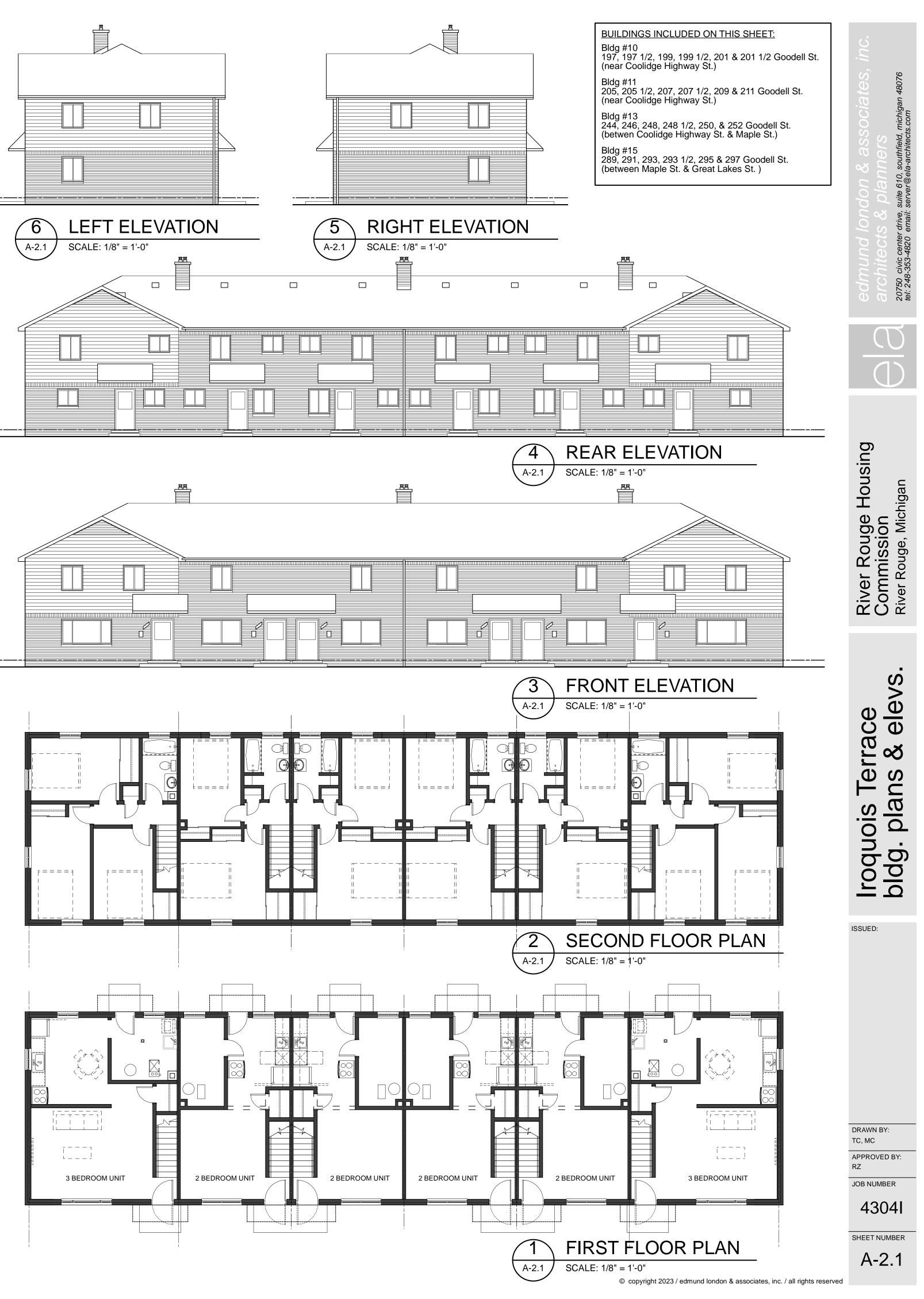


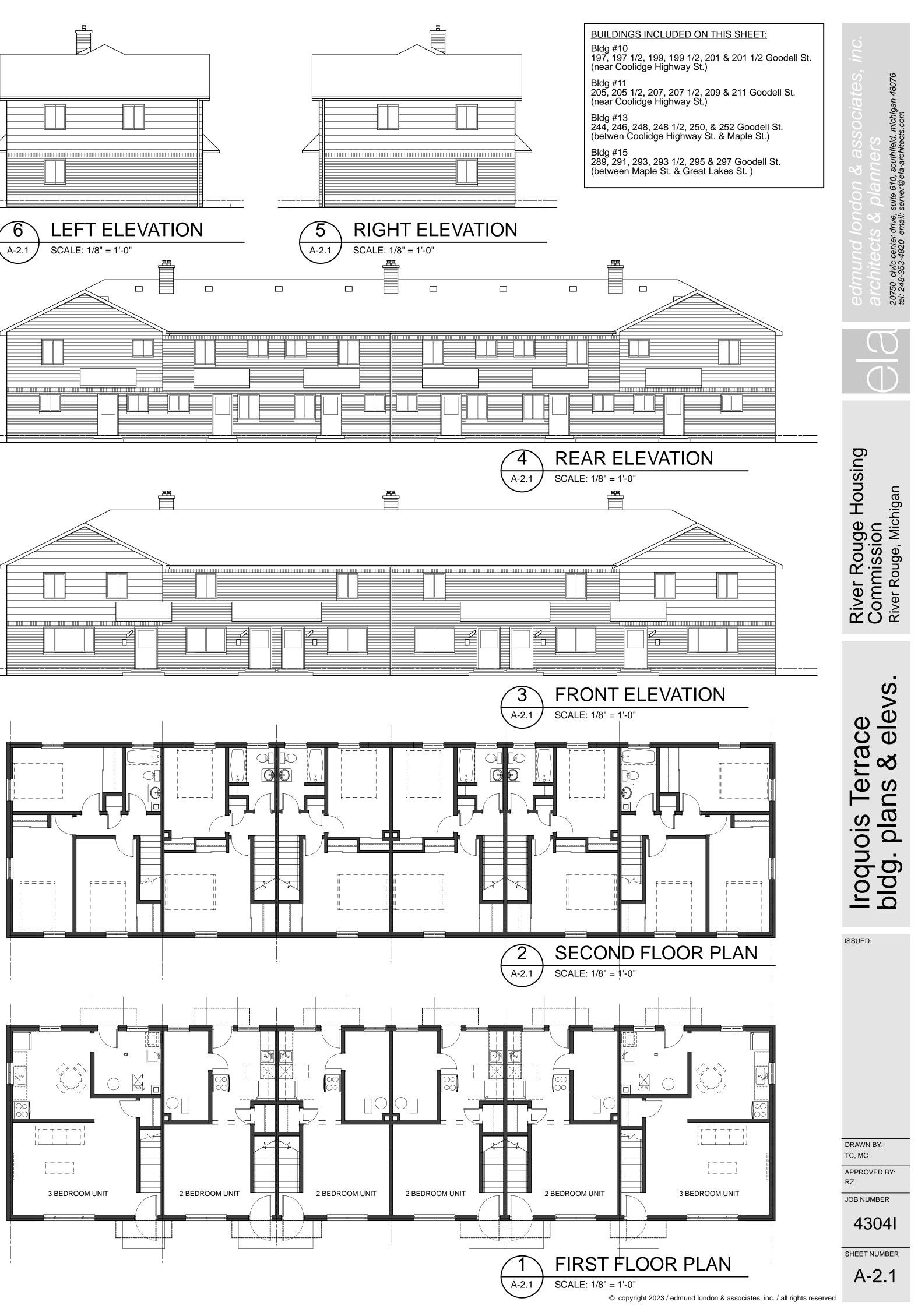


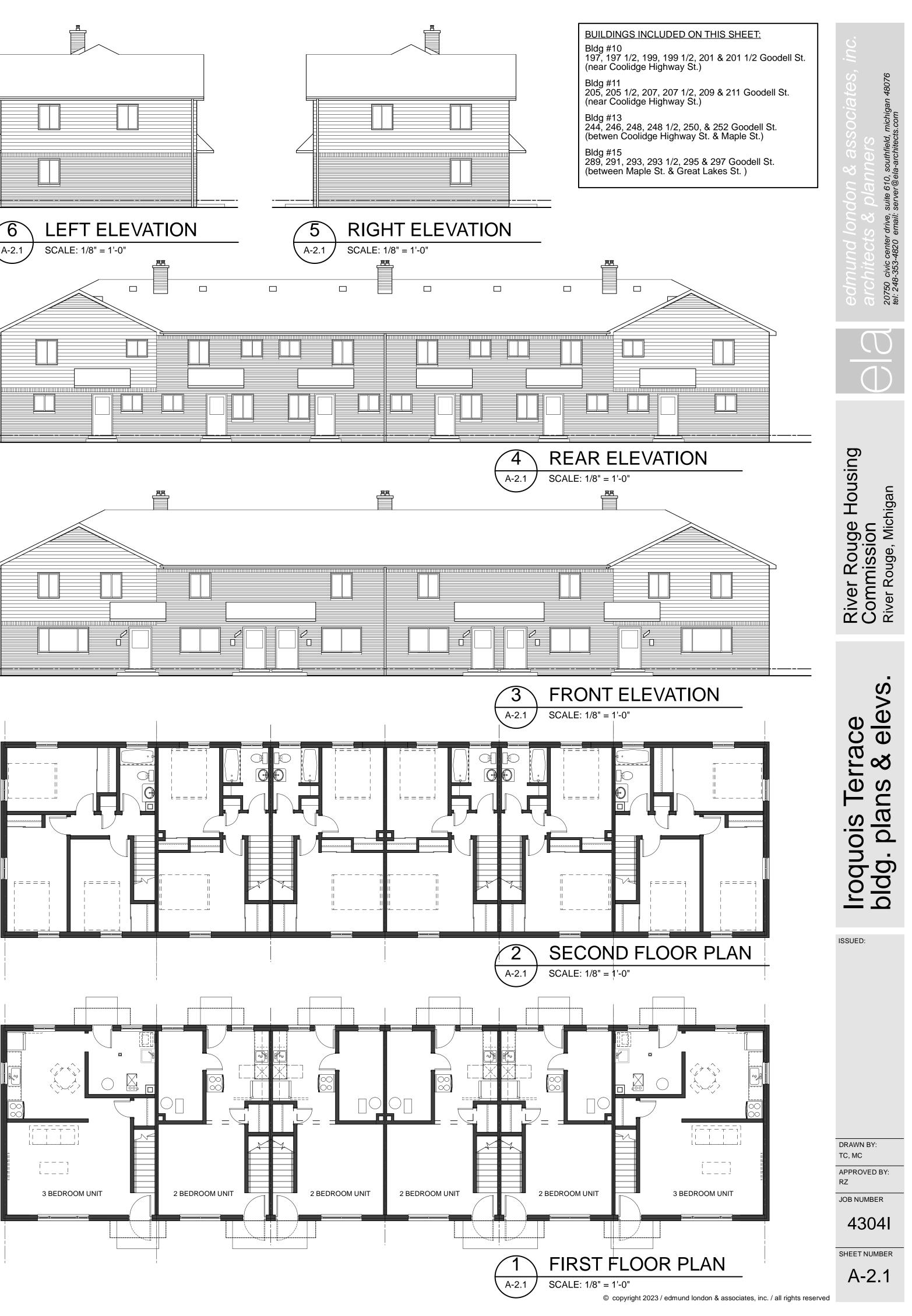
Building #11 - Right



Building #10 - Left Building #10 - Right









Building #39 - Front



Building #39 - Rear



Building #39 - Left



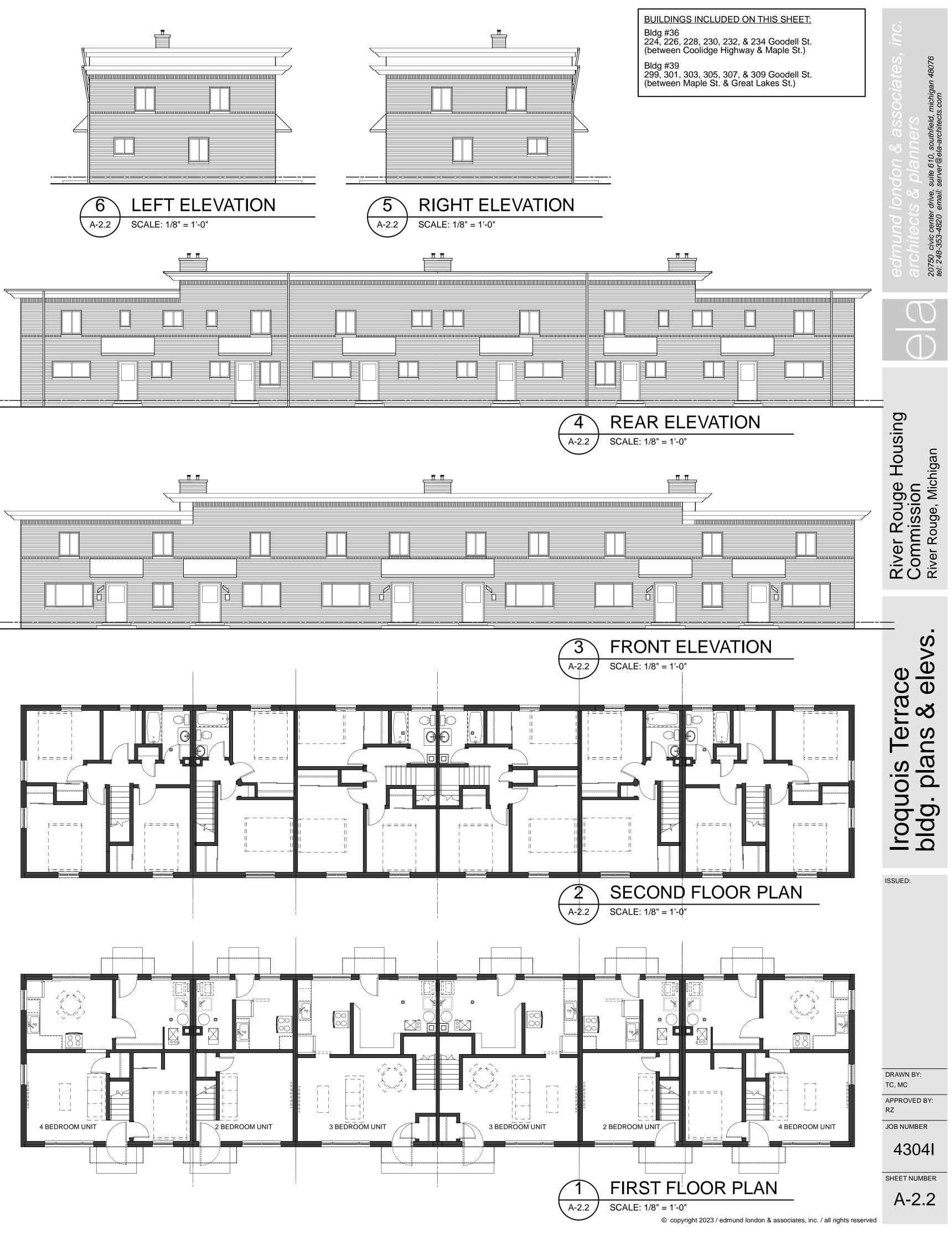
Building #36 - Left

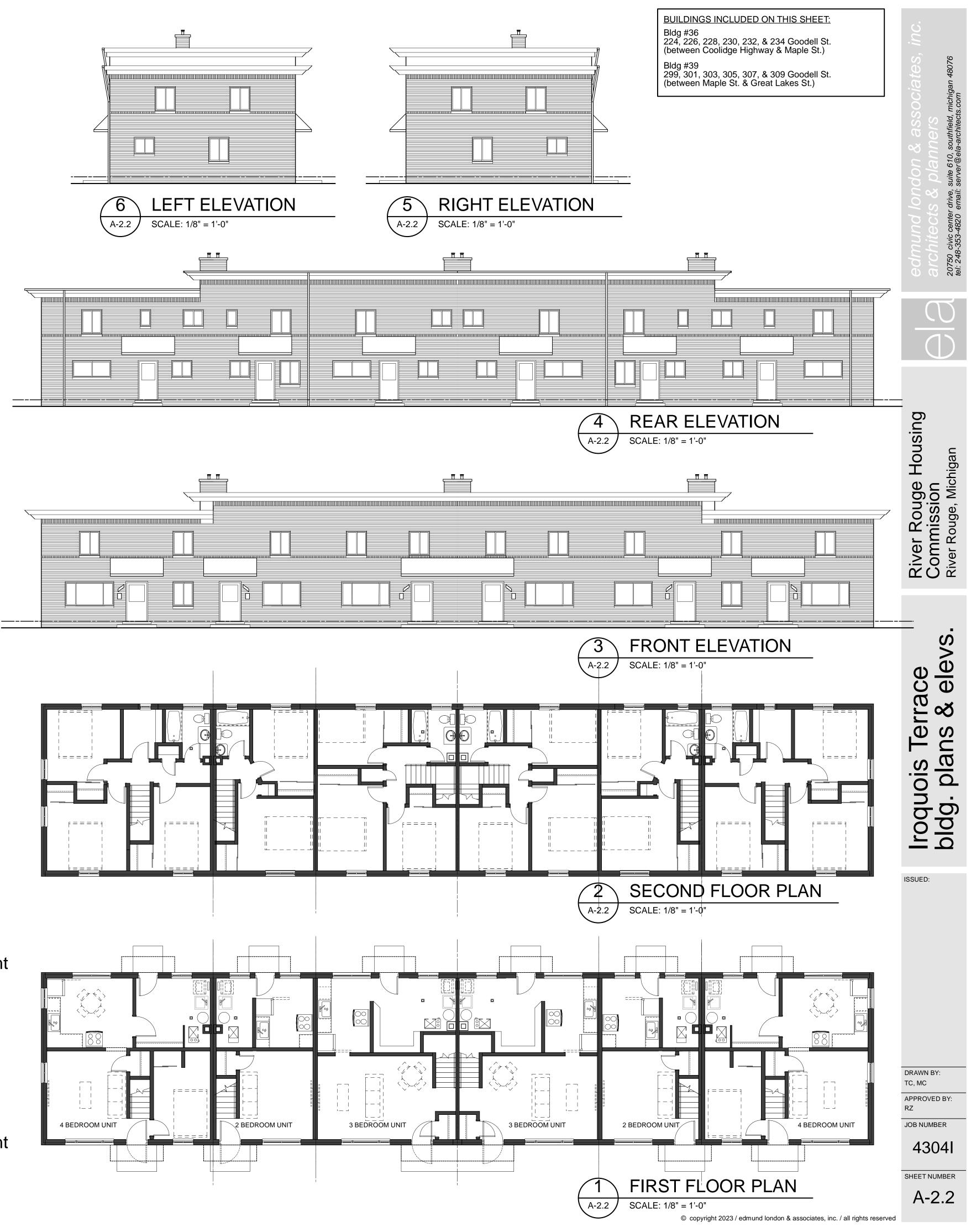


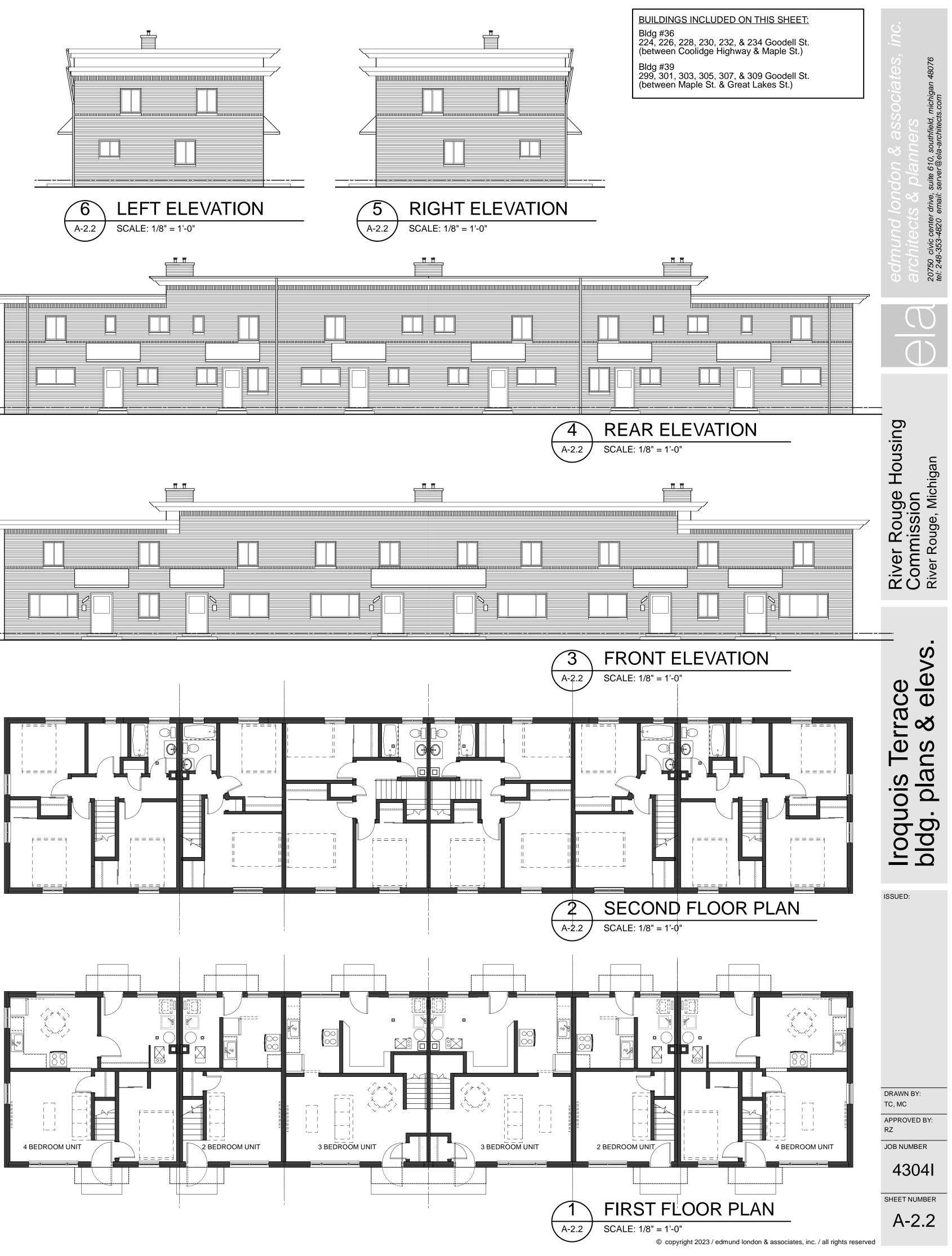
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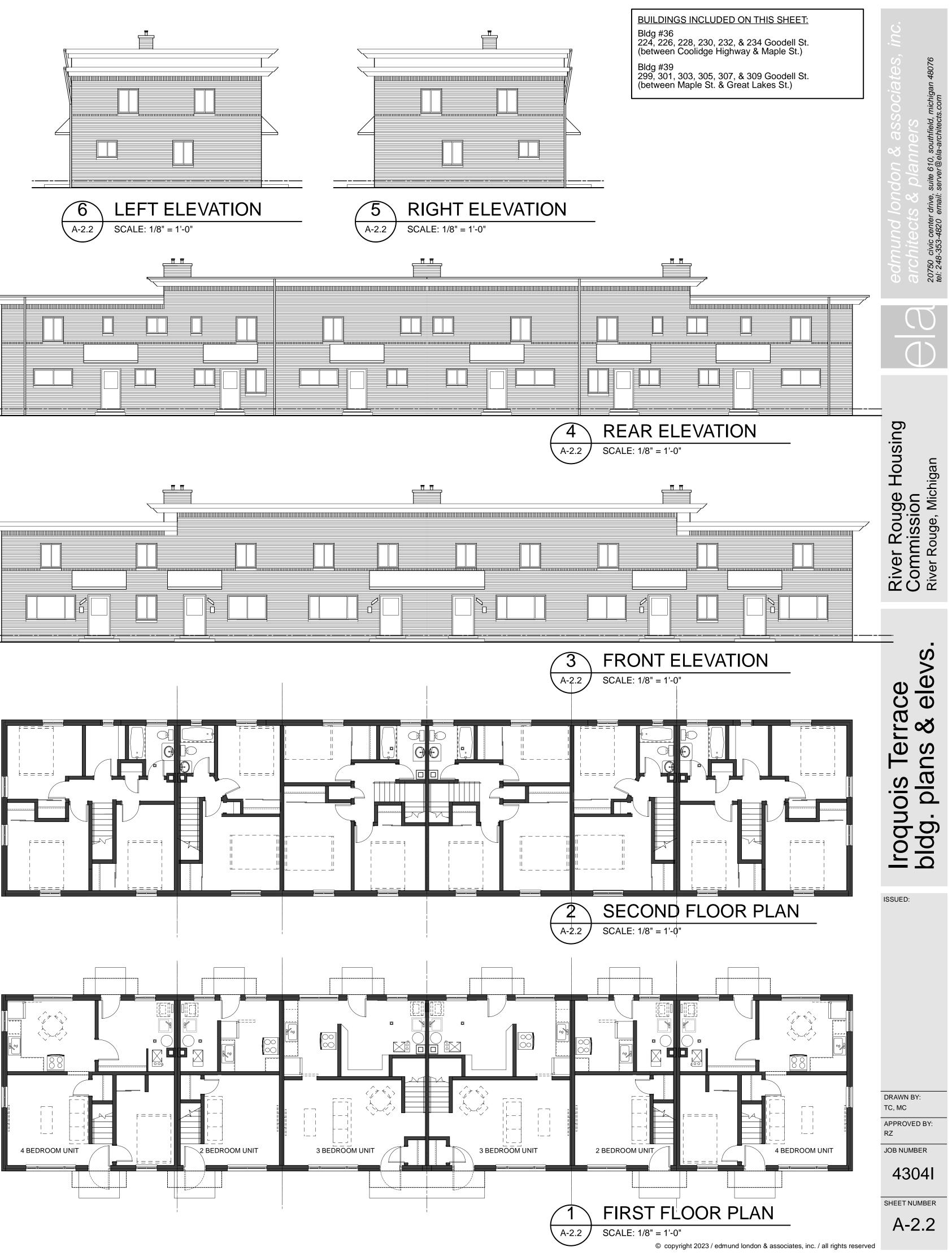


Building #36 - Rear











Building #39 - Right



Building #36 - Right



Building #17 - Front



Building #17 - Rear

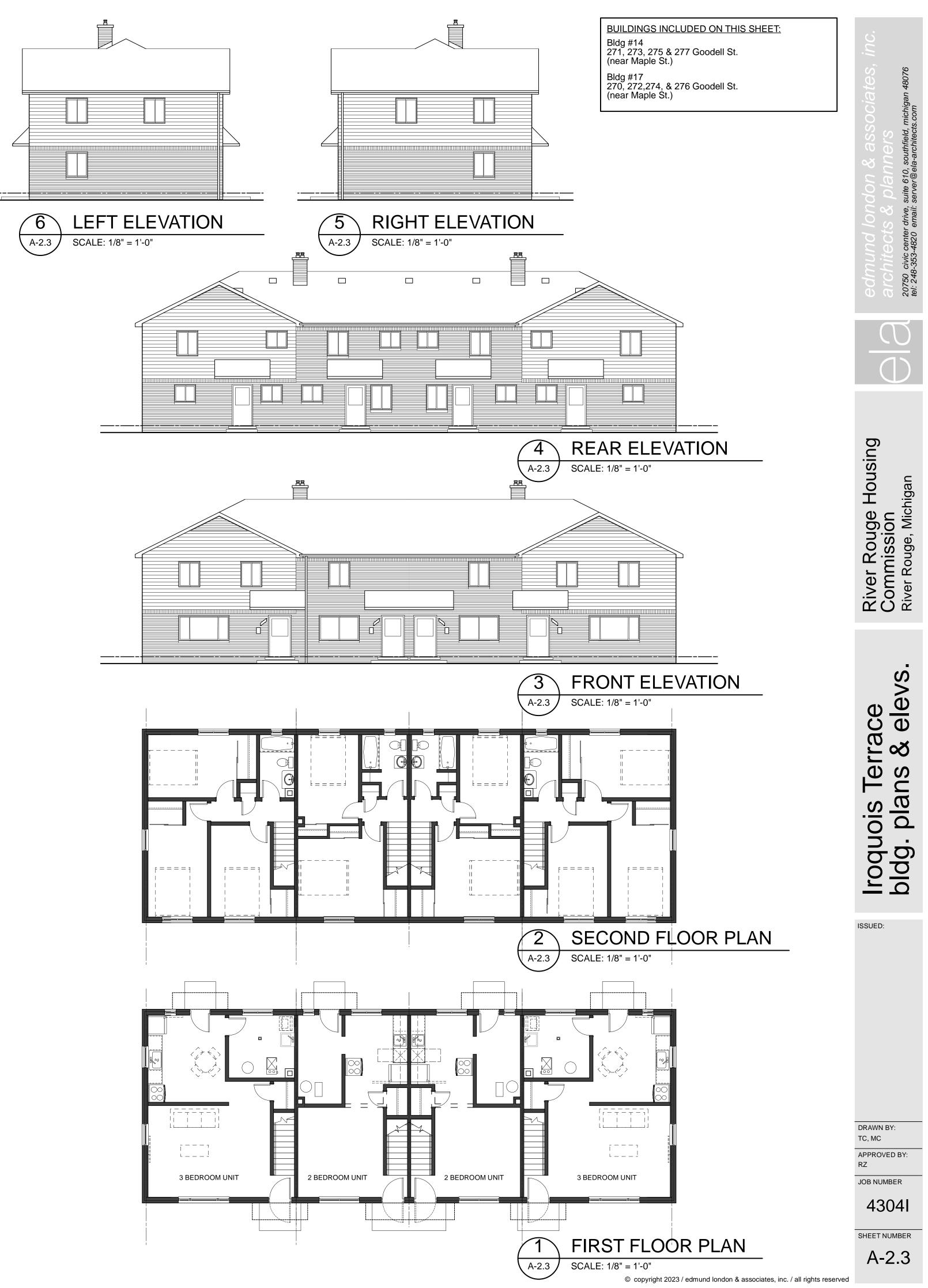


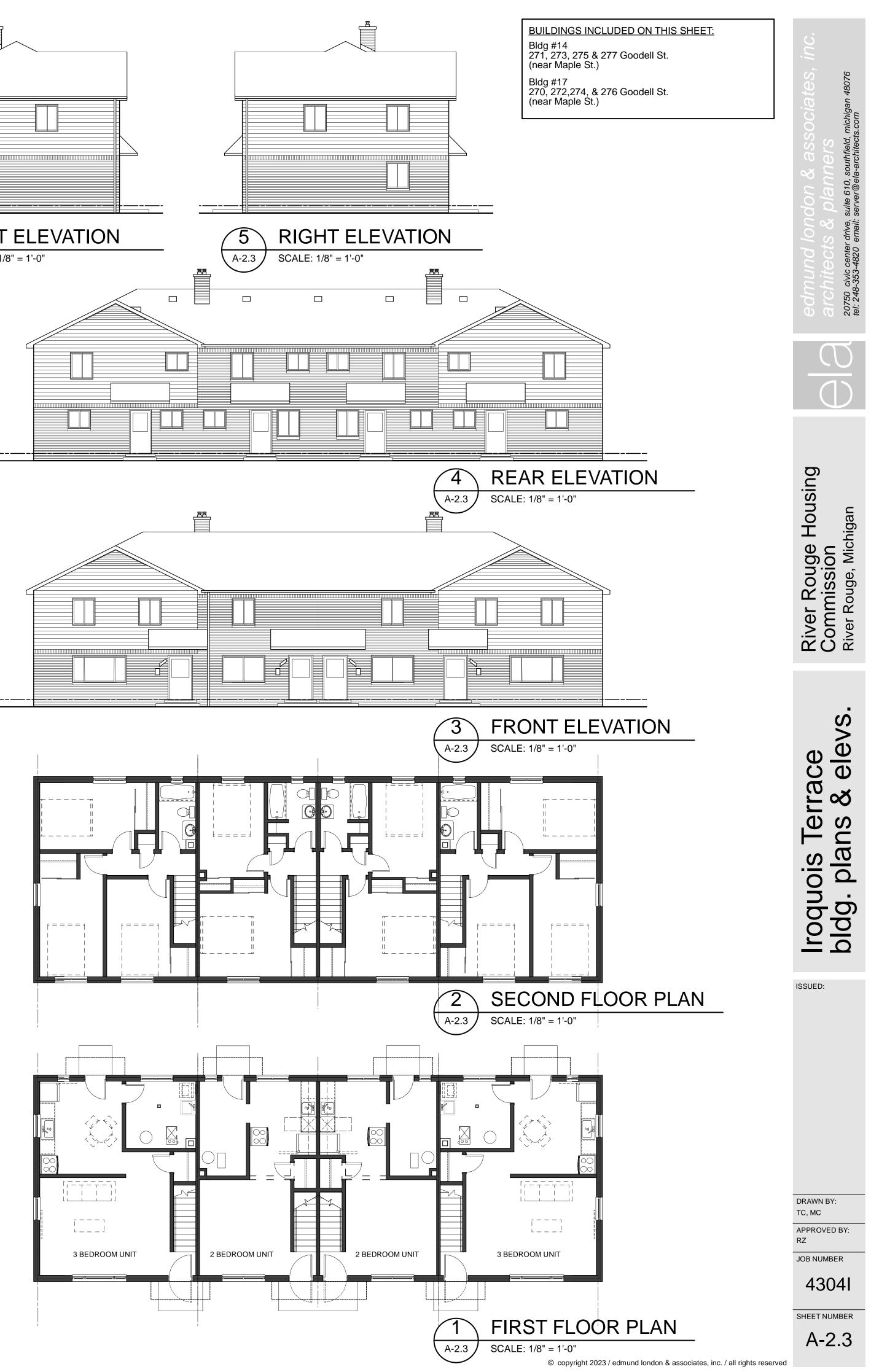


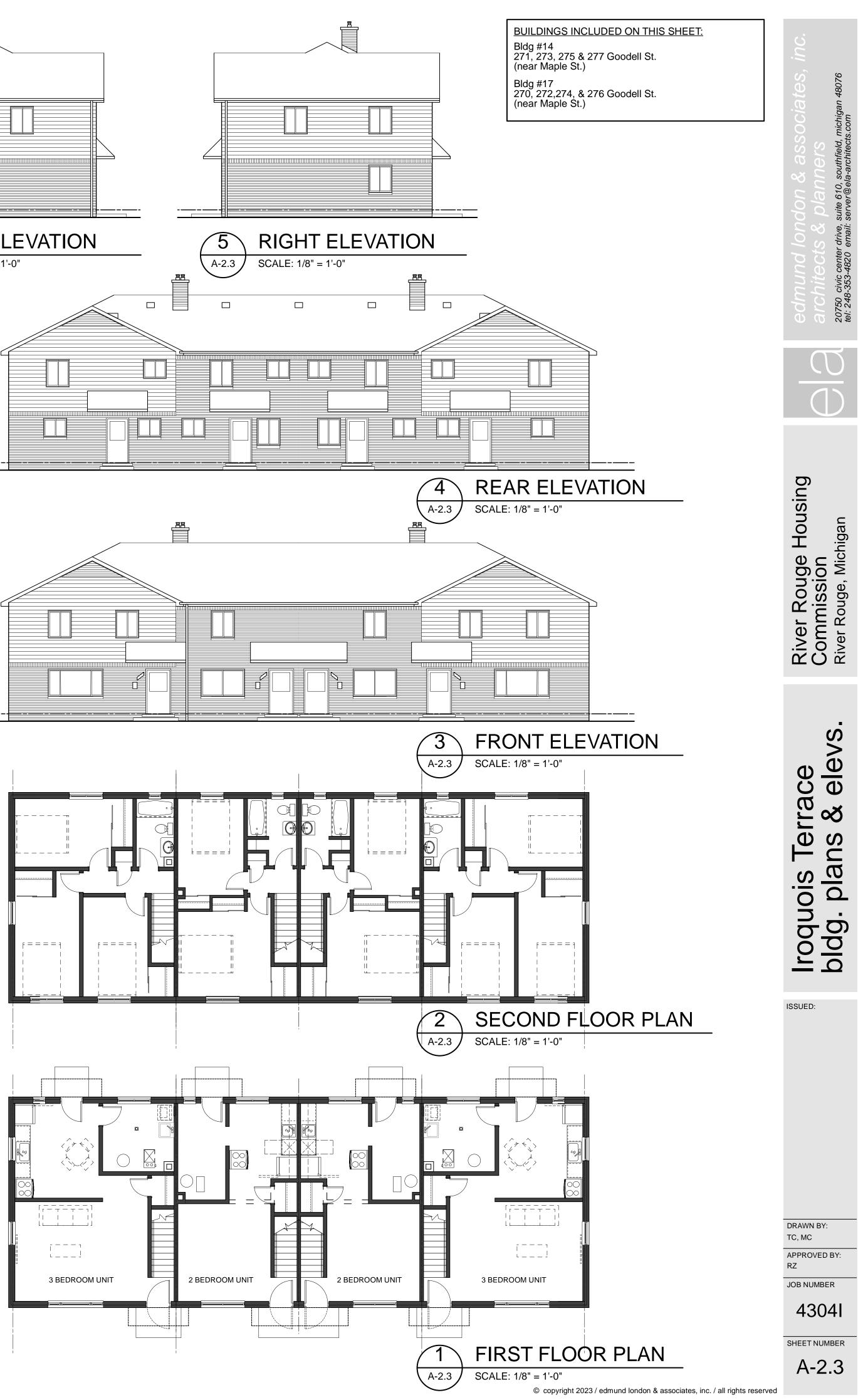
Building #14 - Front



Building #14 - Rear













Building #17 - Left Building #17 - Right



Building #14 - Left Building #14 - Right

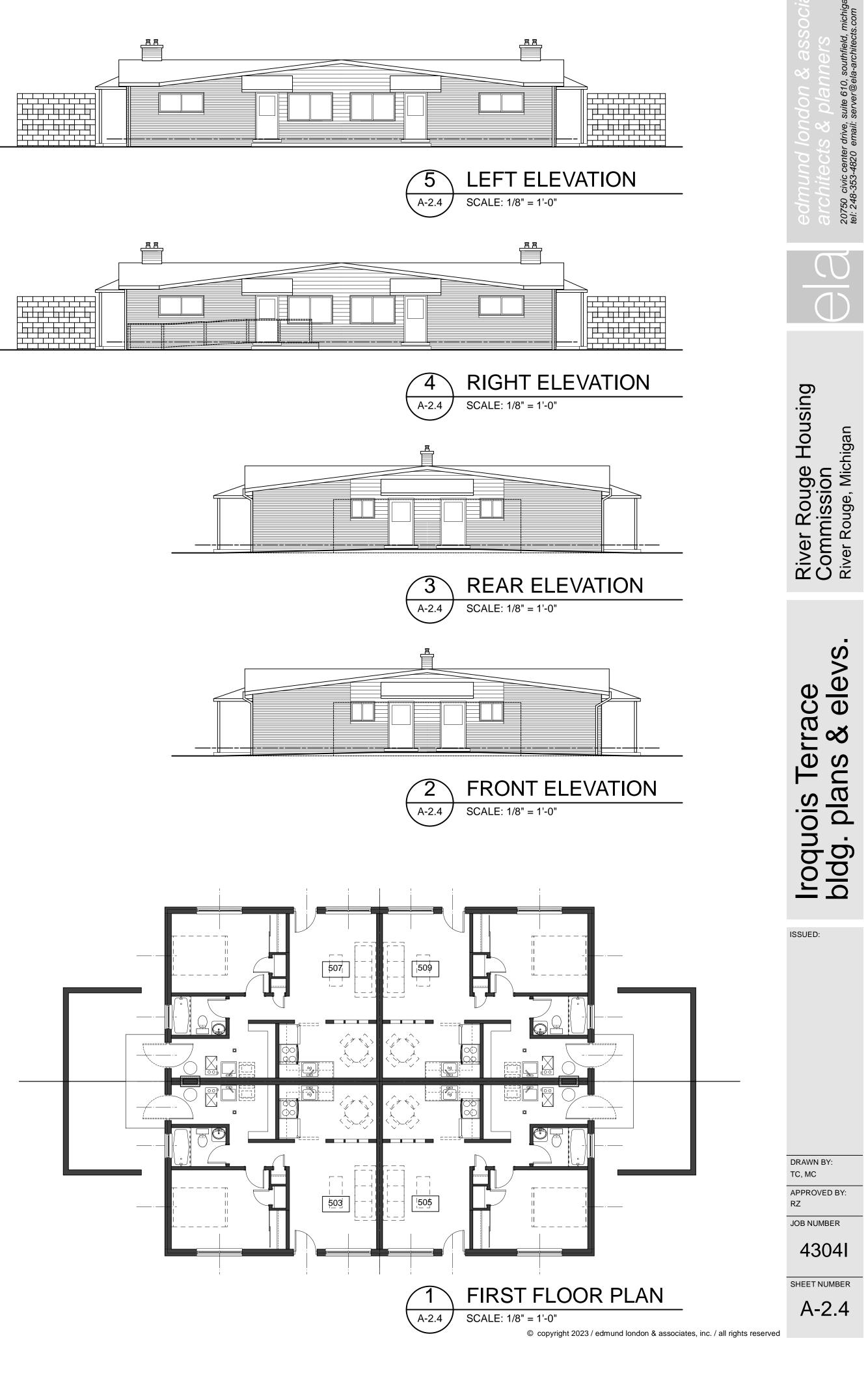


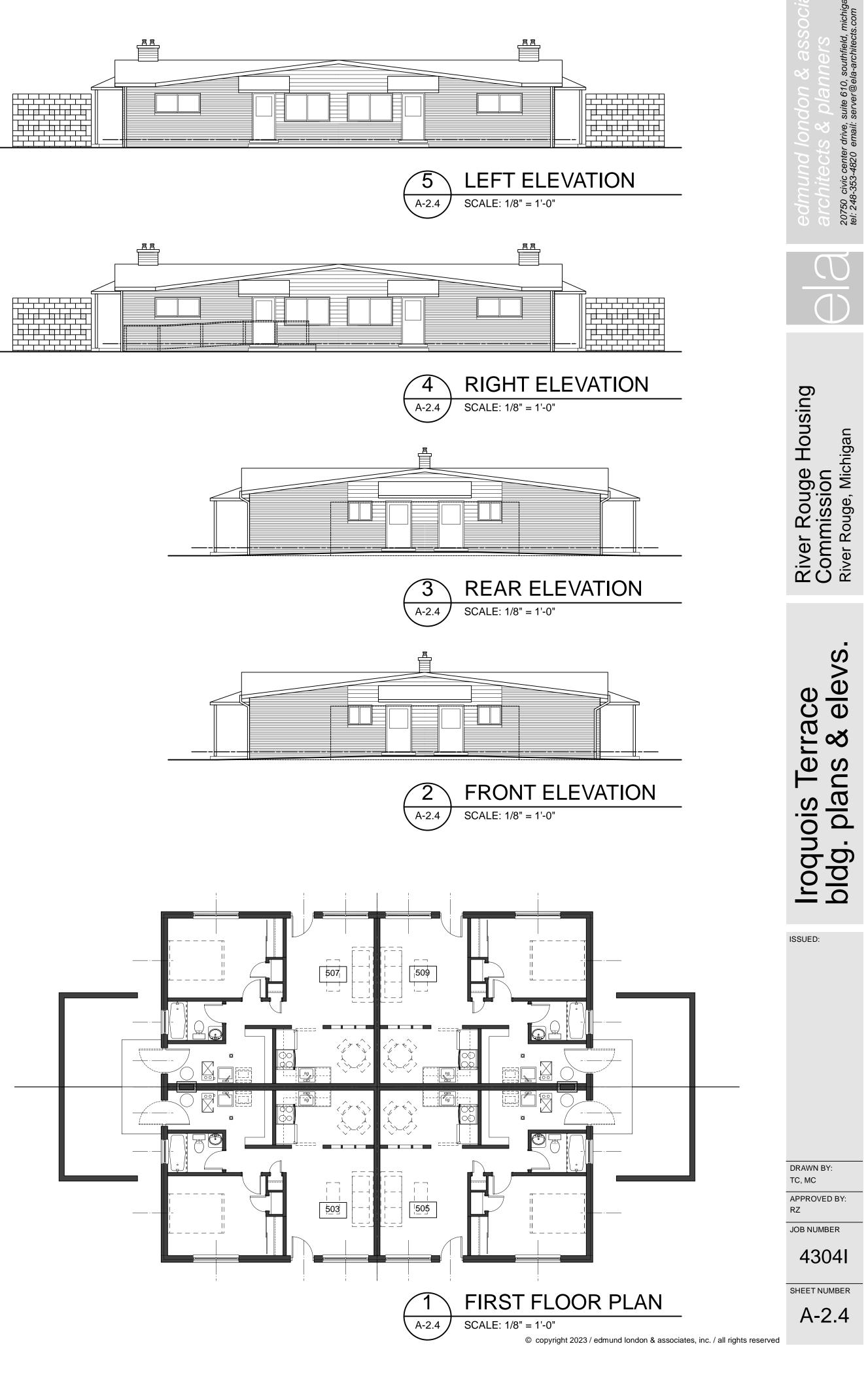
Building #64 - Front



Building #64 - Rear









Building #64 - Left Building #64 - Right

BUILDINGS INCLUDED ON THIS SHEET: Bldg #64 324, 324 1/2, 326, & 326 1/2 Goodell (near East Great Lakes St.)

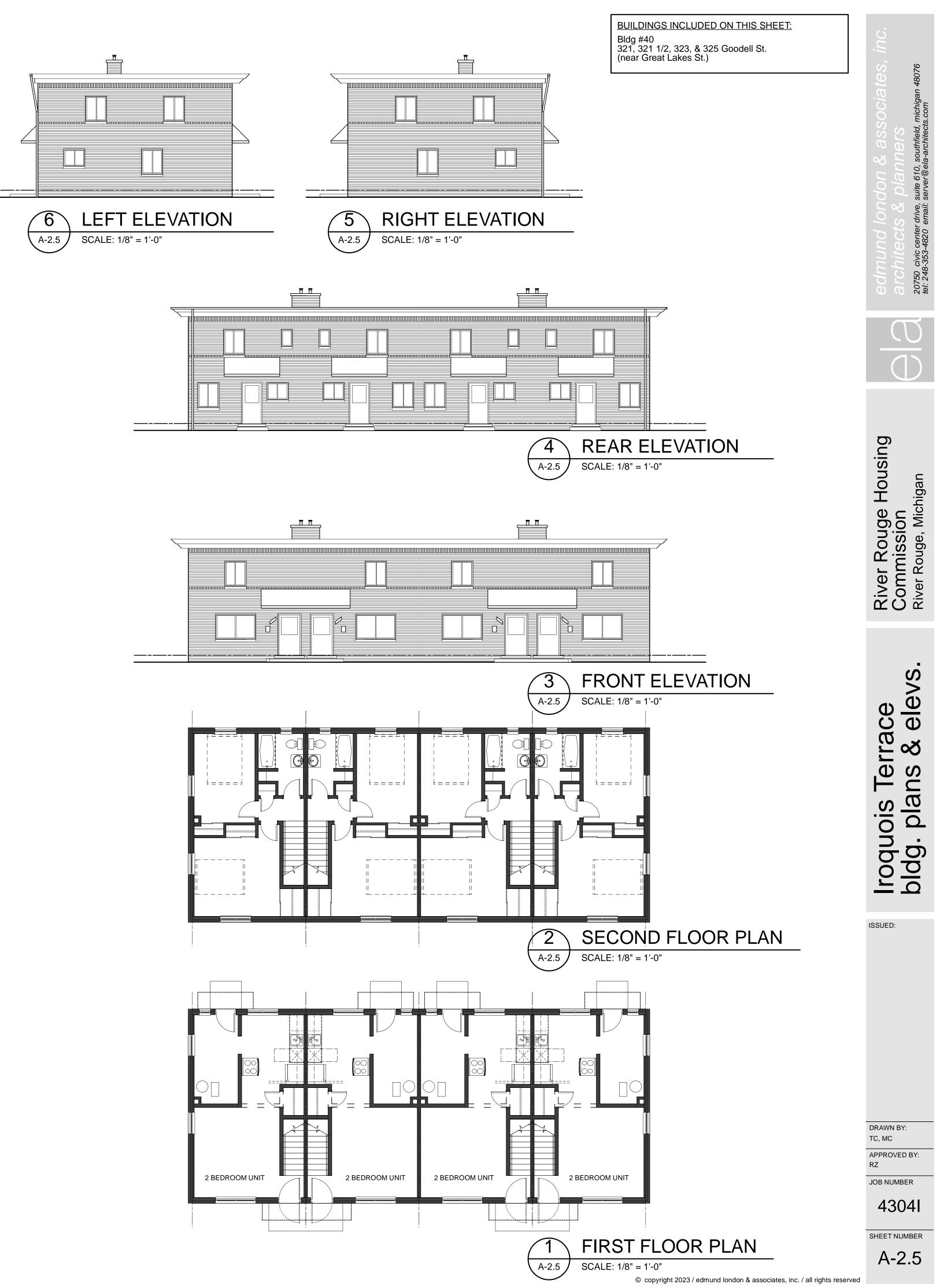


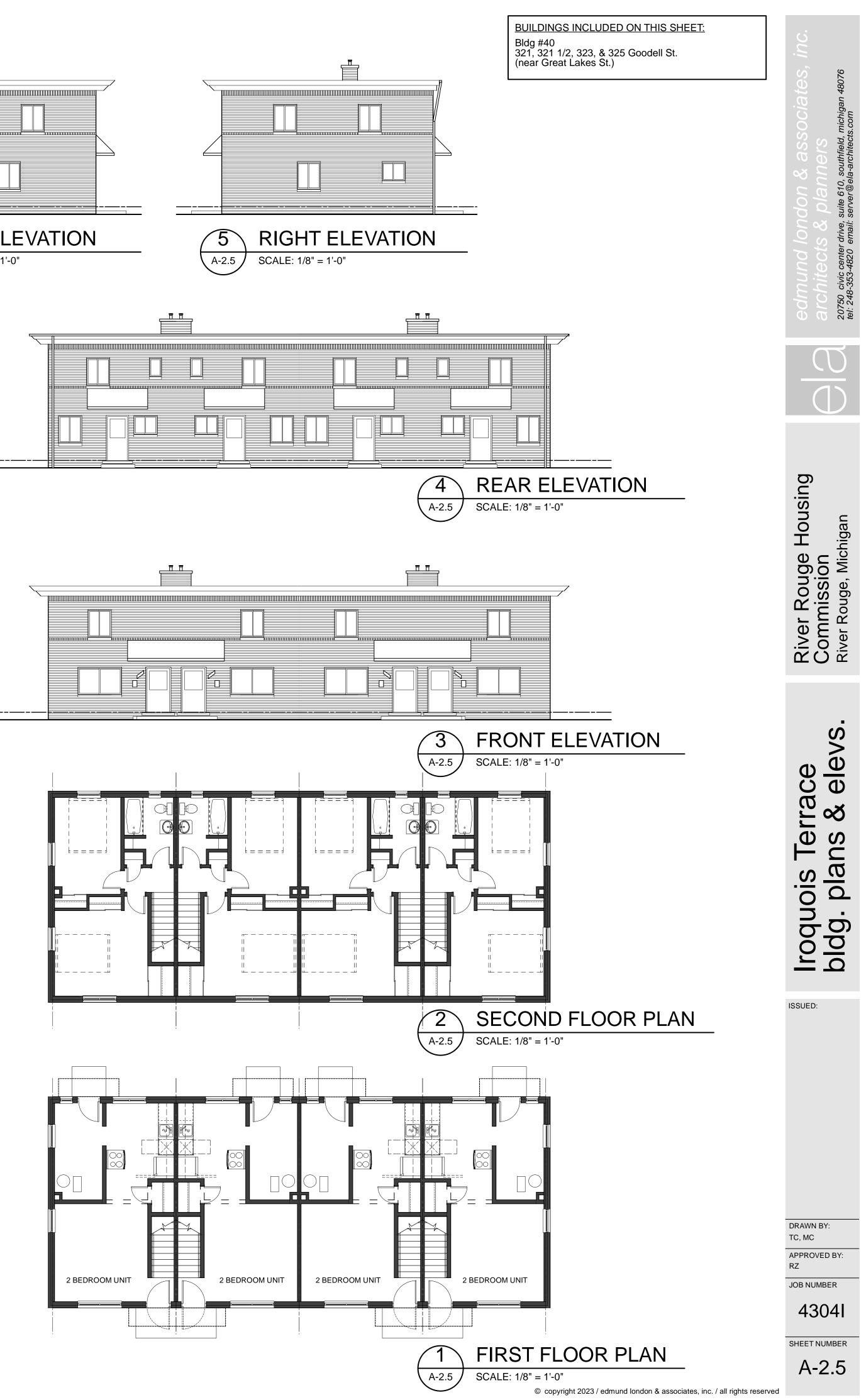
Building #40 - Front

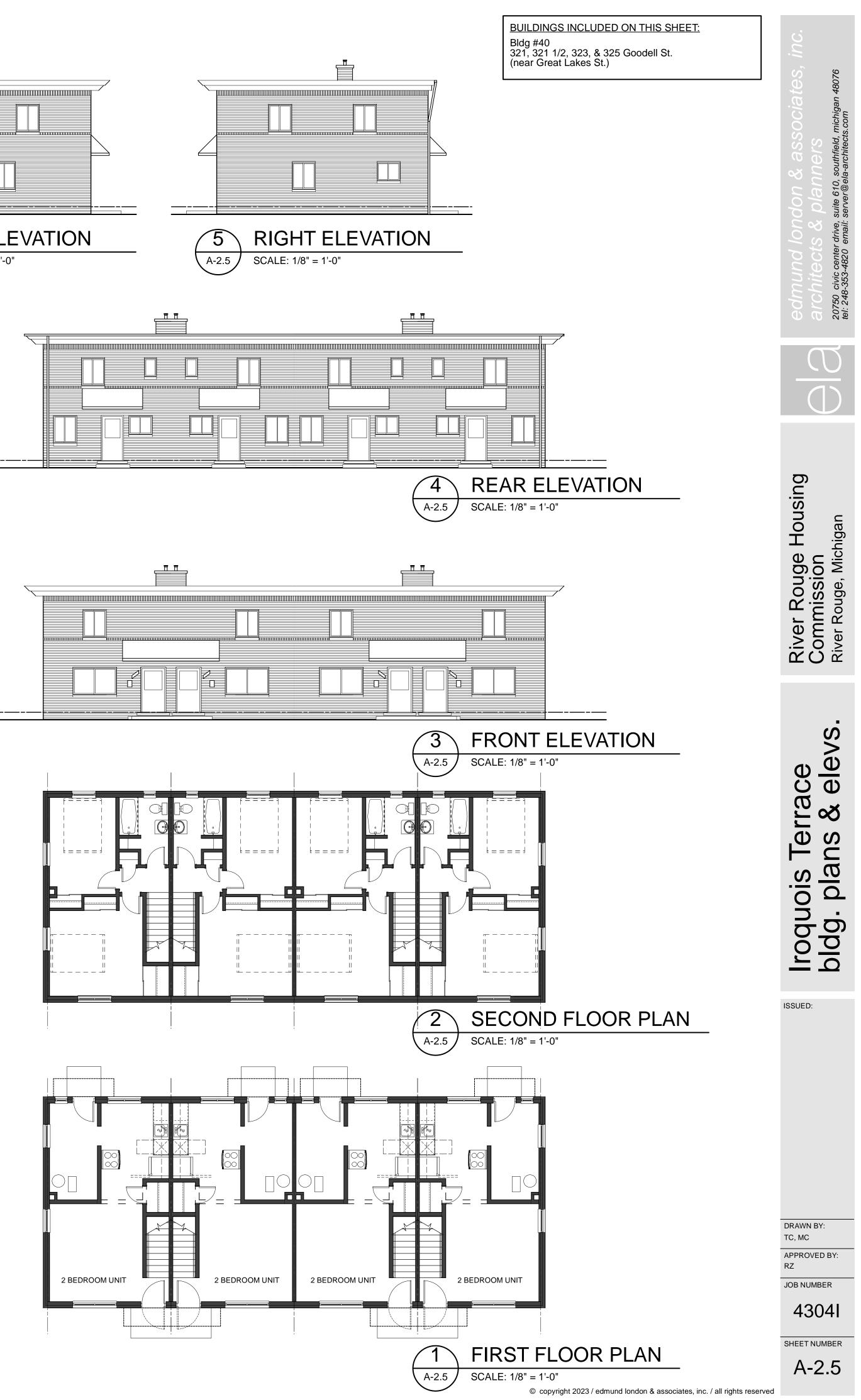


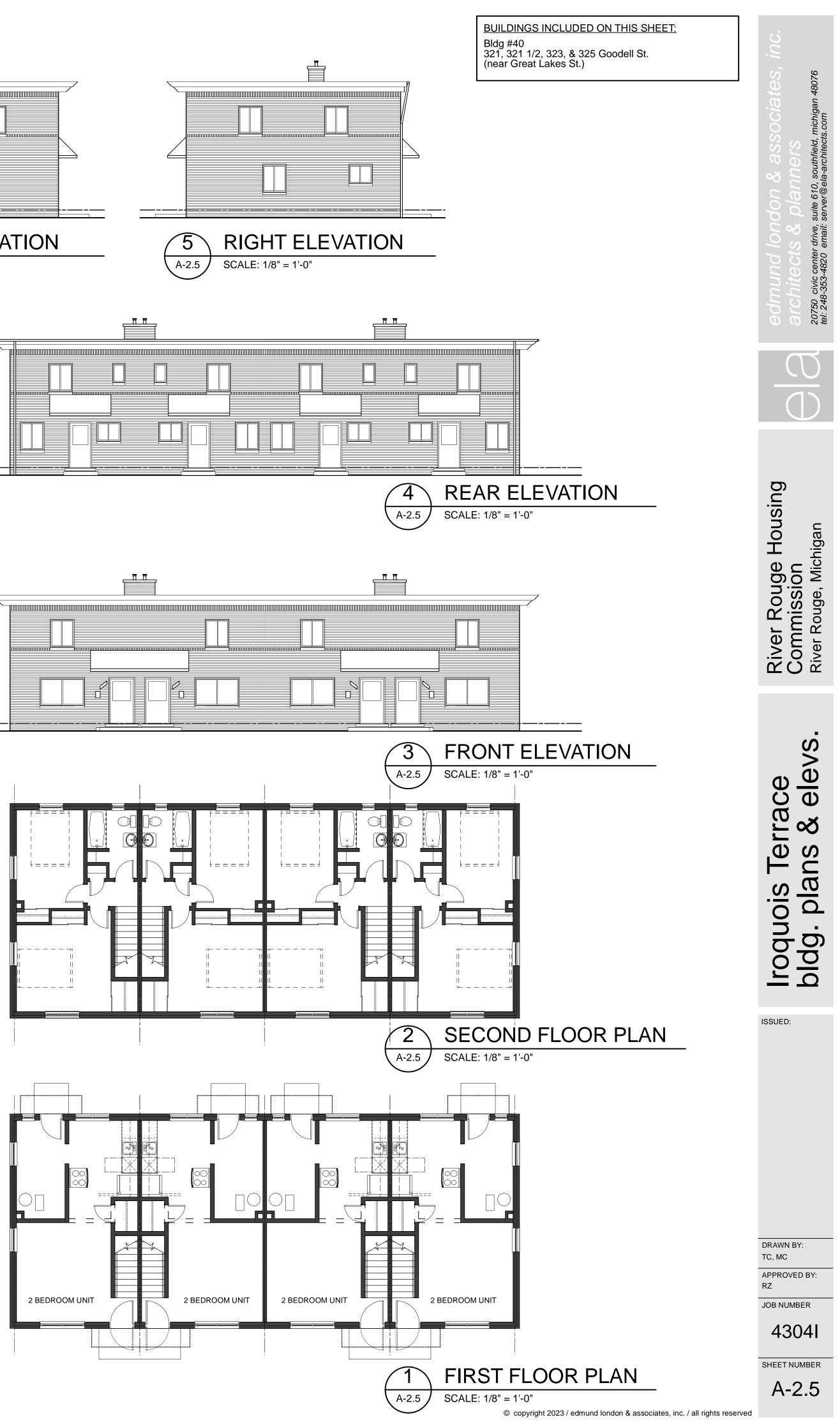
Building #40 - Rear

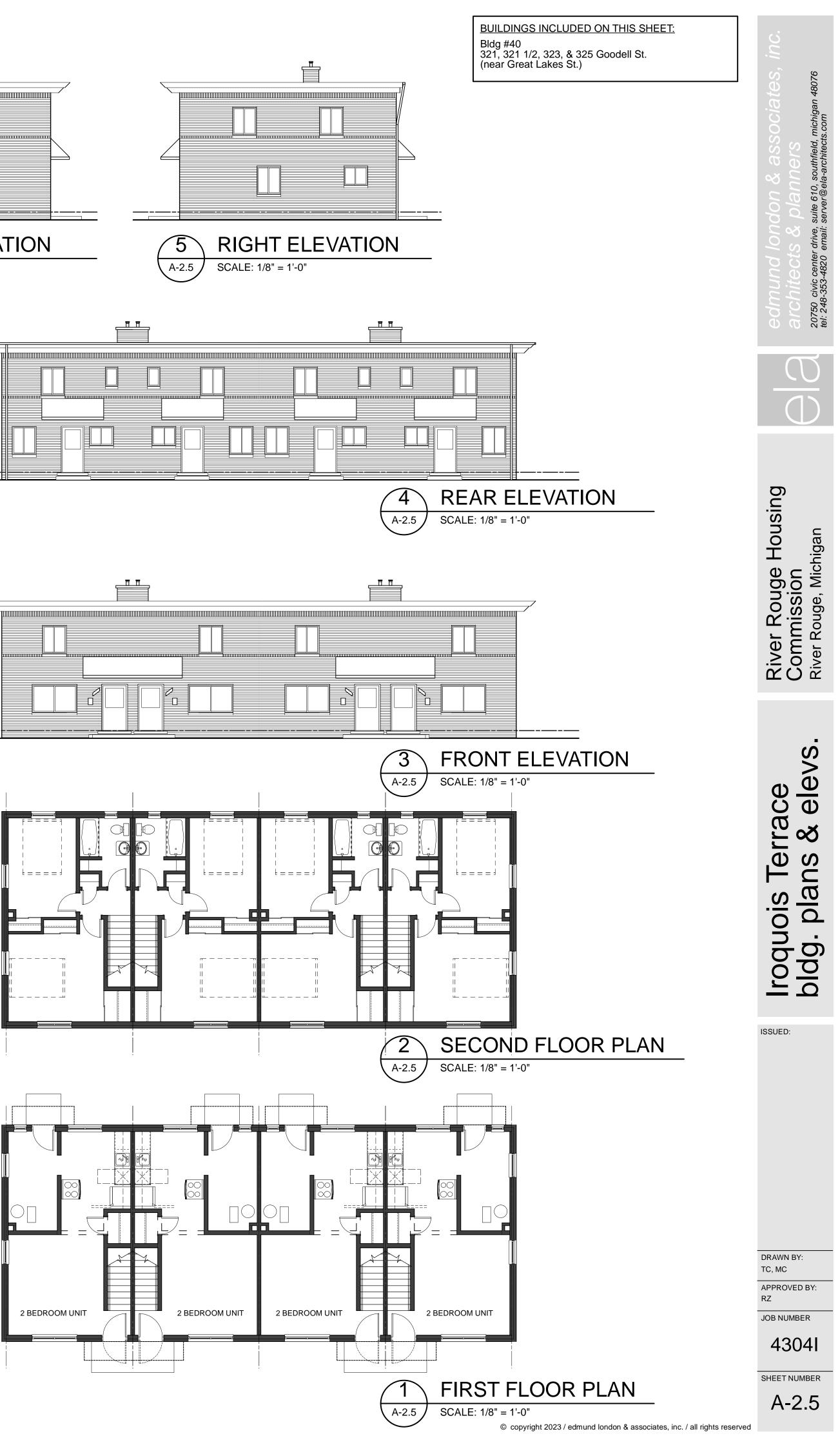














Building #40 - Left Building #40 - Right



Building #19 - Front



Building #19 - Rear



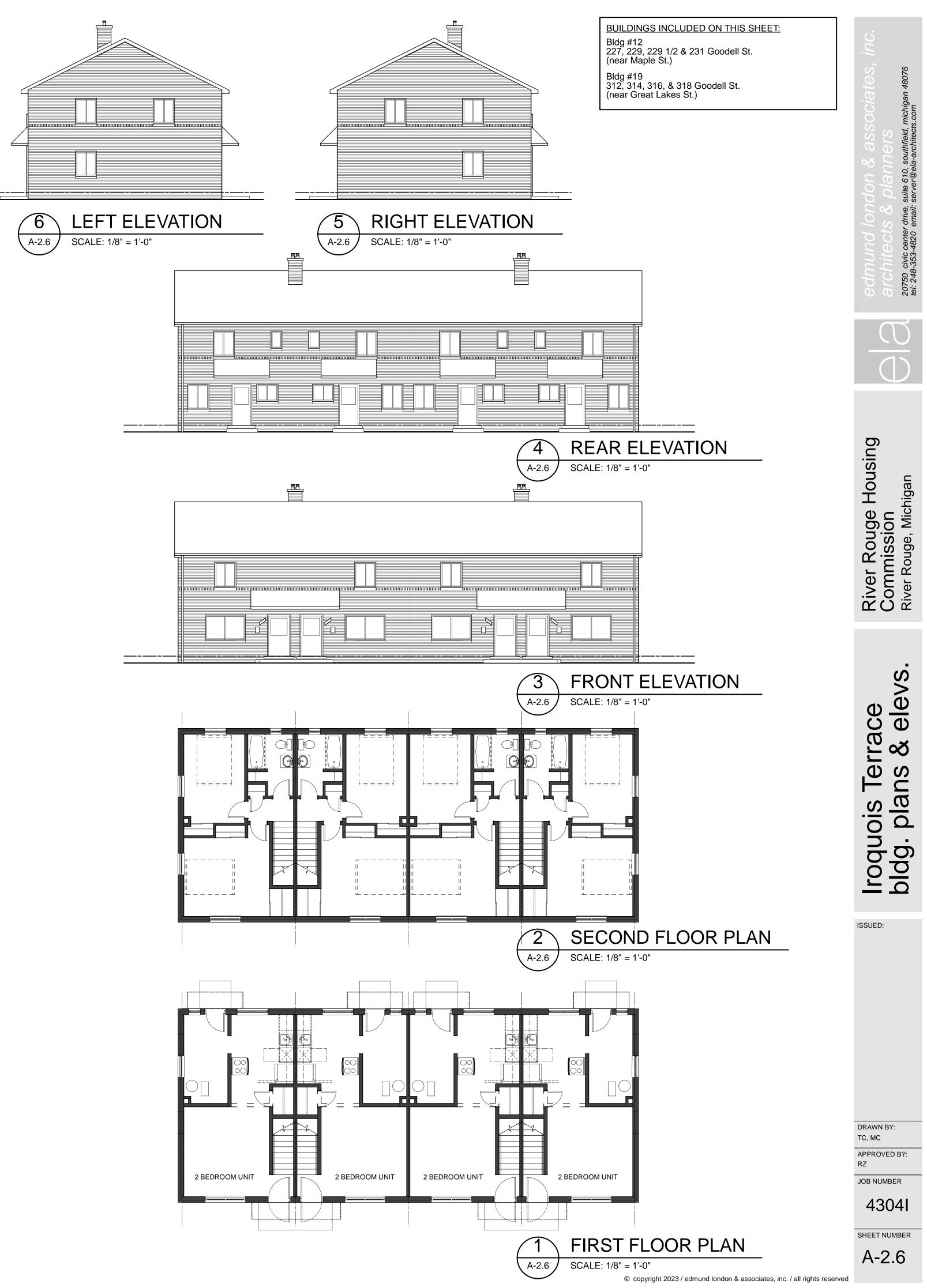


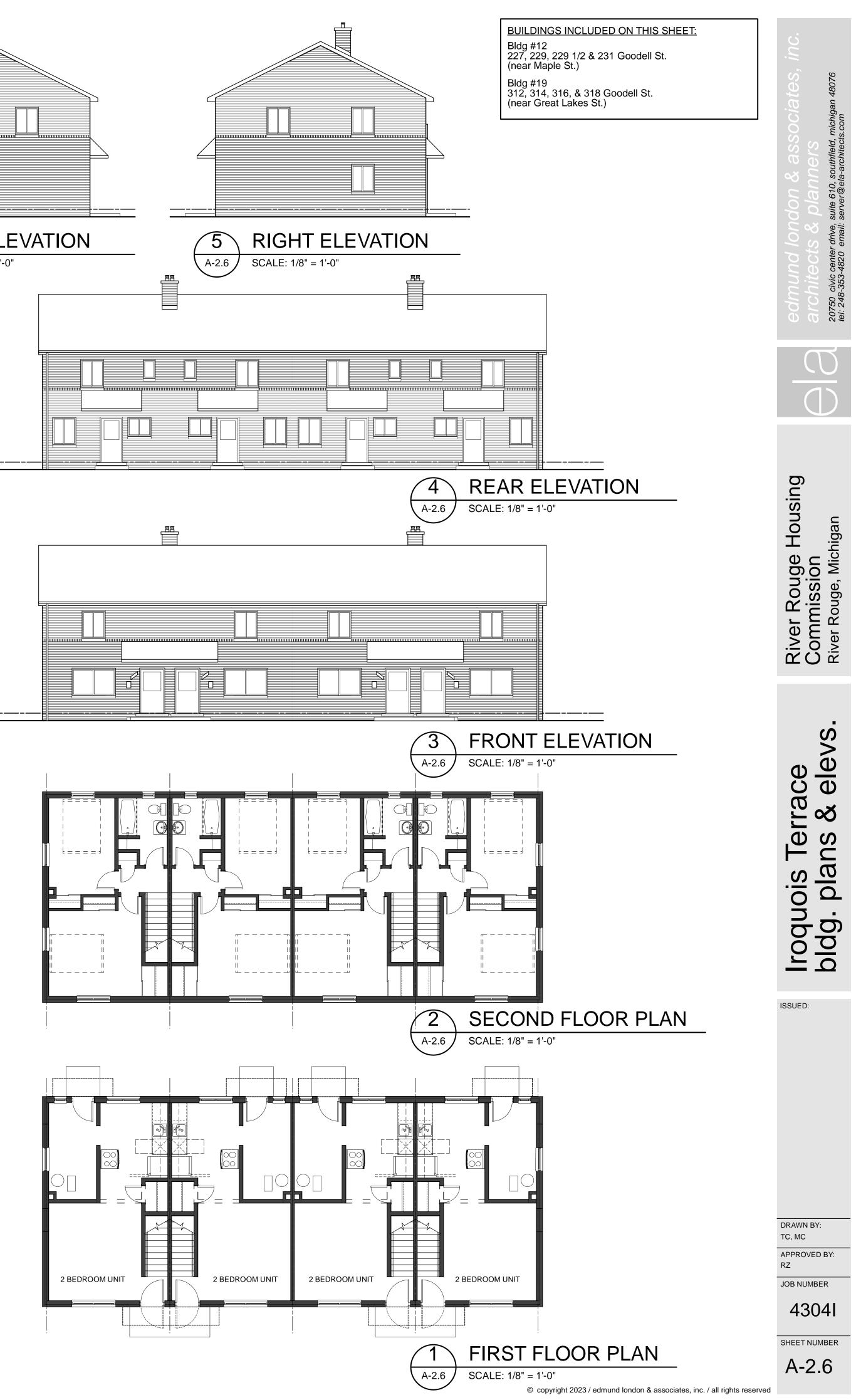


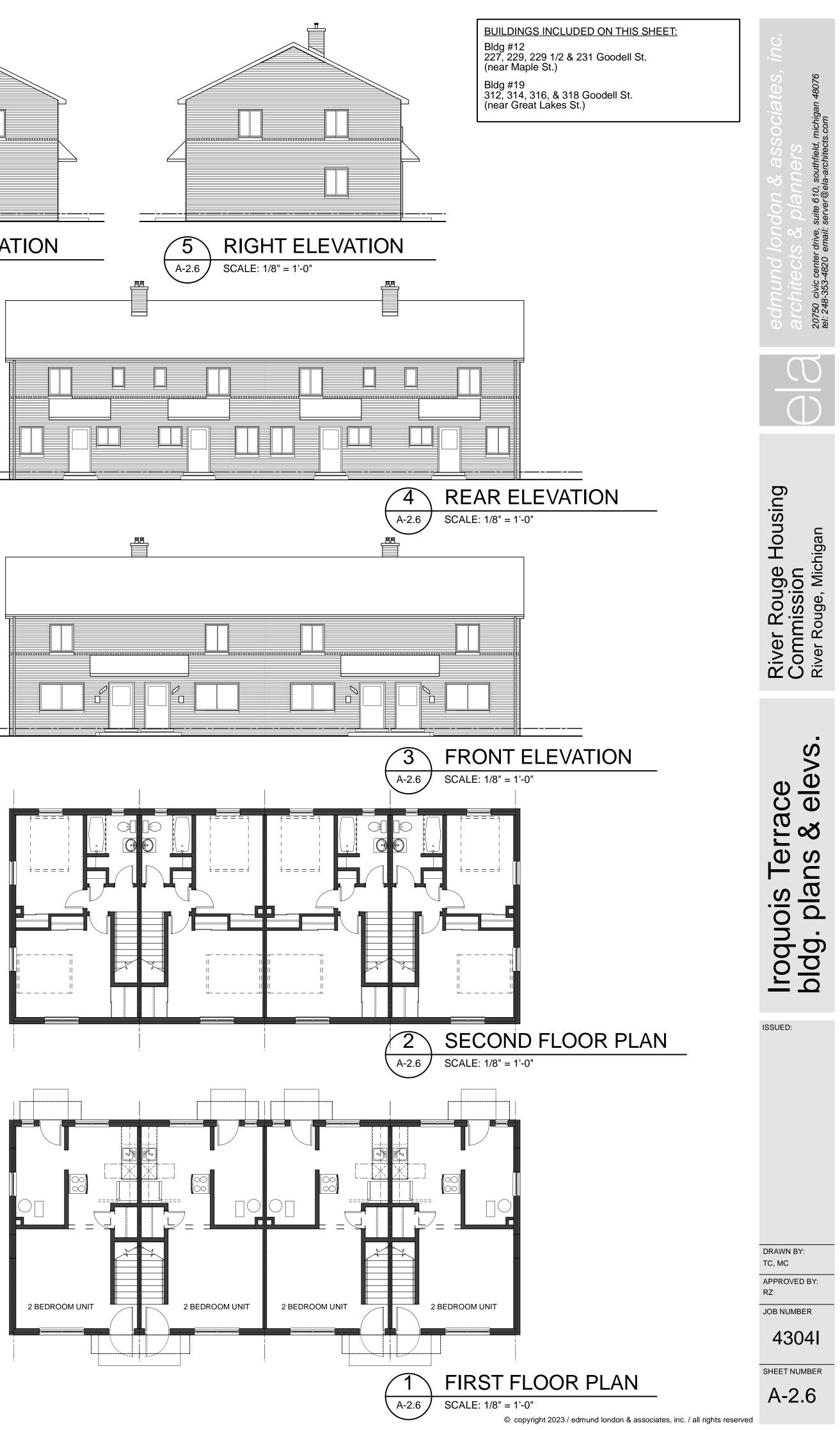
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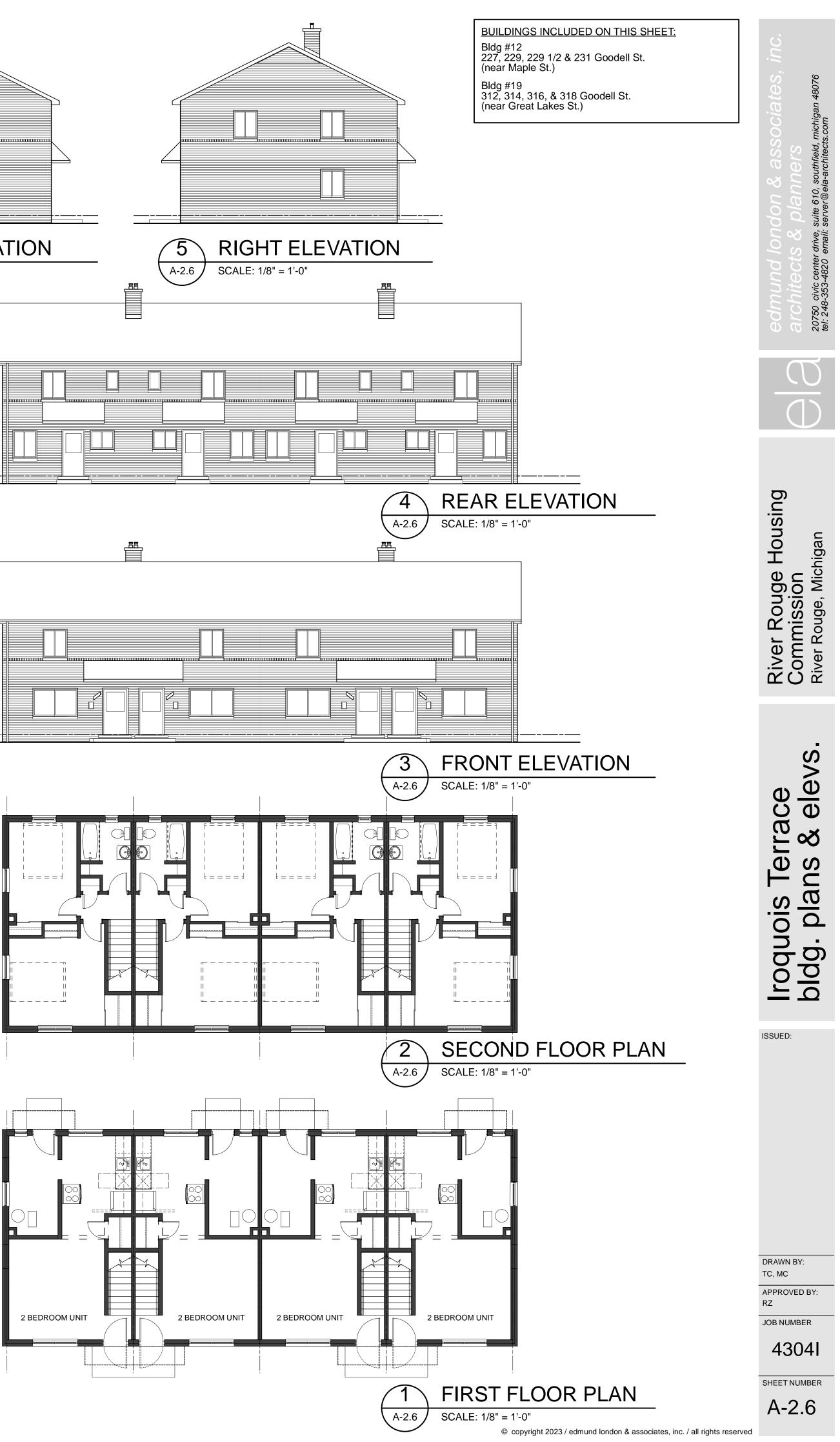


Building #12 - Rear











Building #19 - Left Building #19 - Right



Building #12 - Left Building #12 - Right





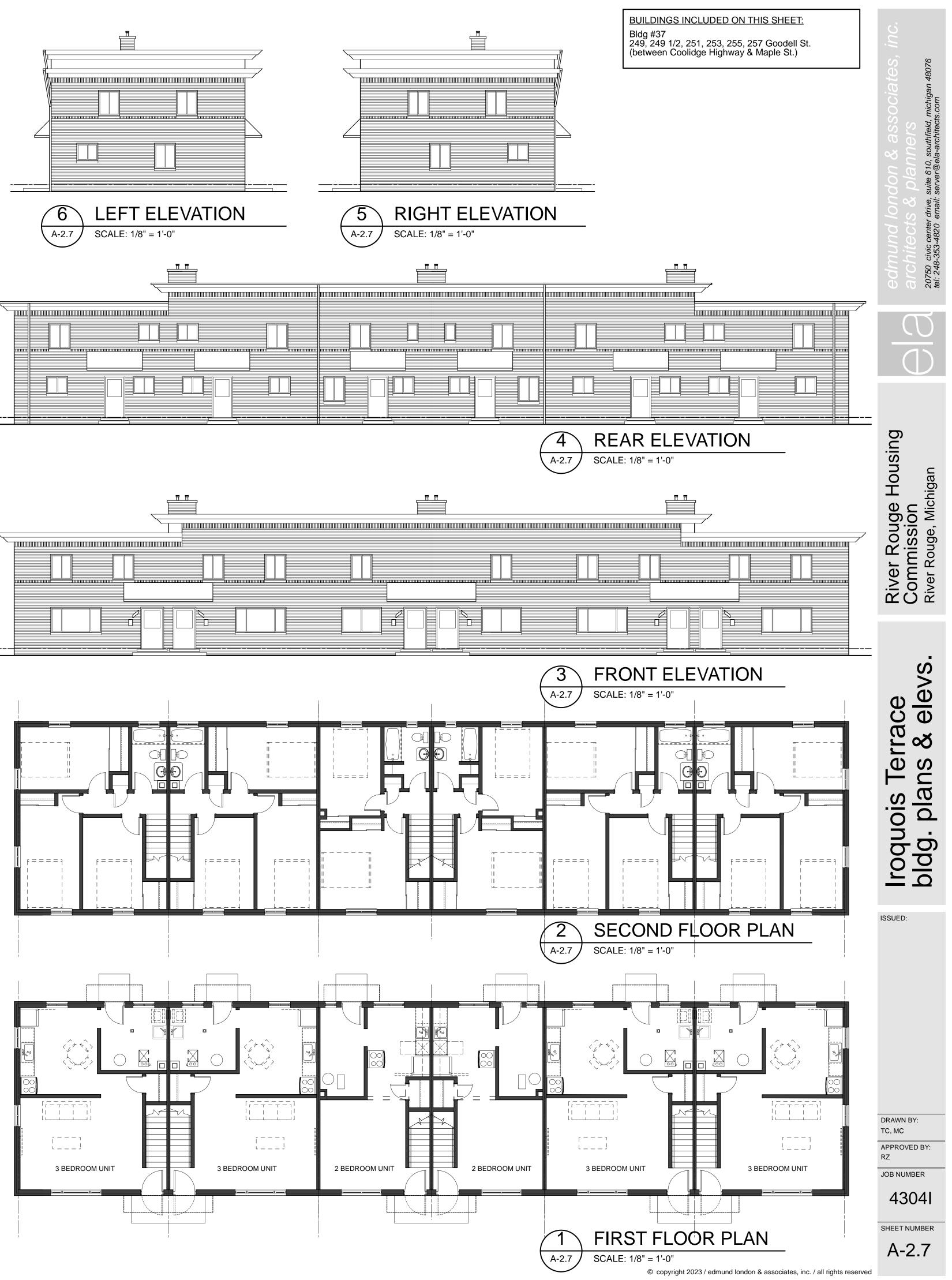


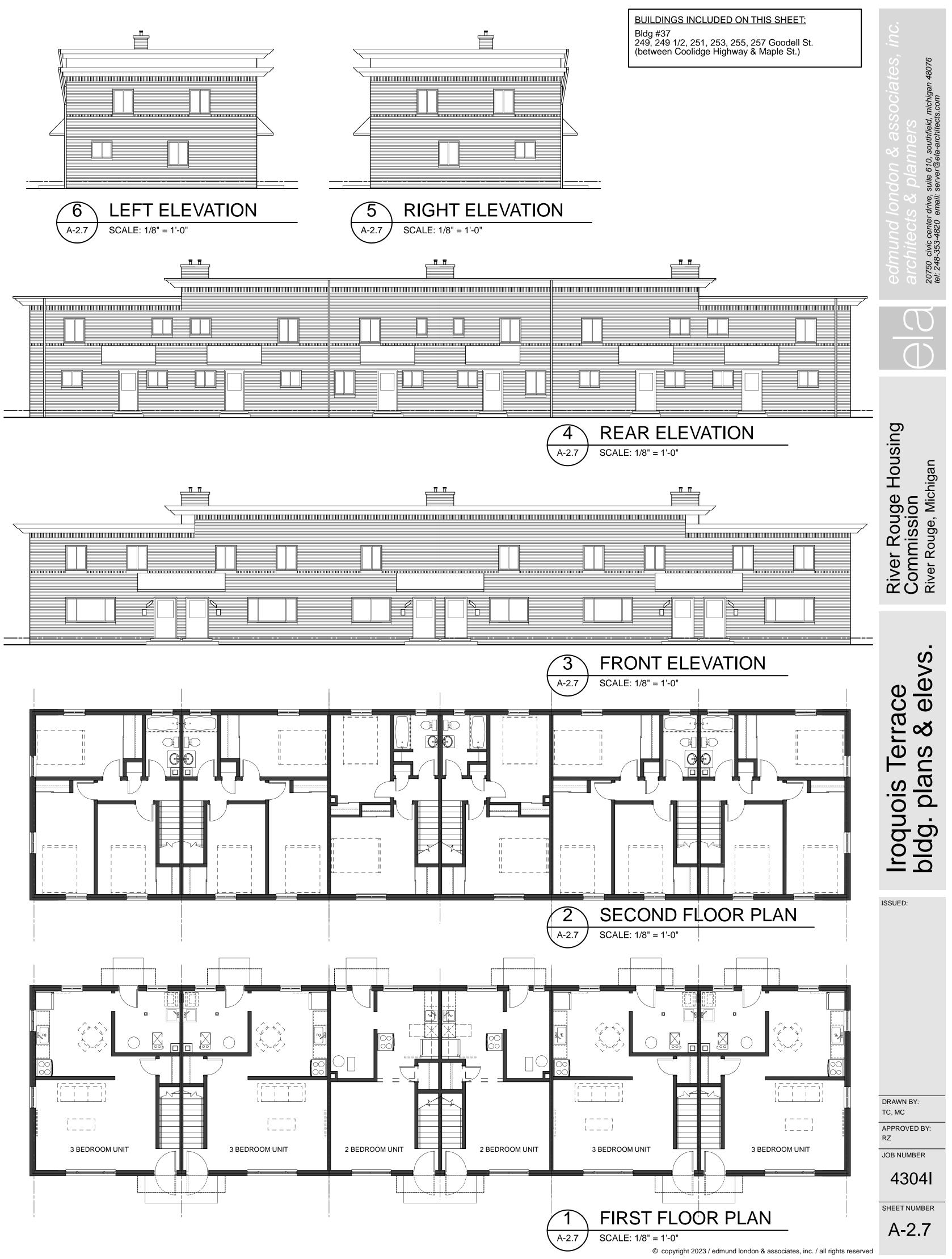


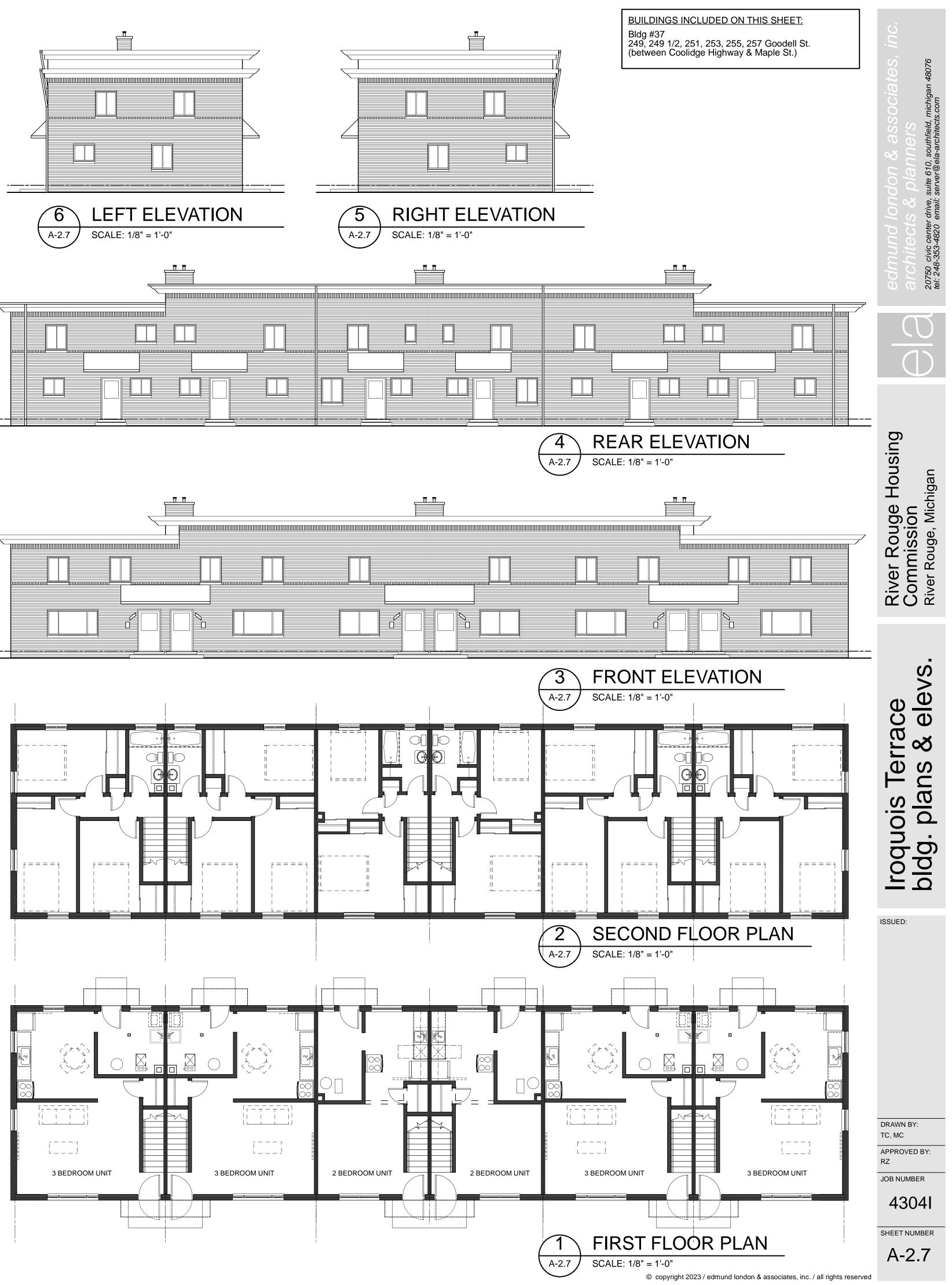
Building #37 - Front

Building #37 - Rear









Building #37 - Left Building #37 - Right

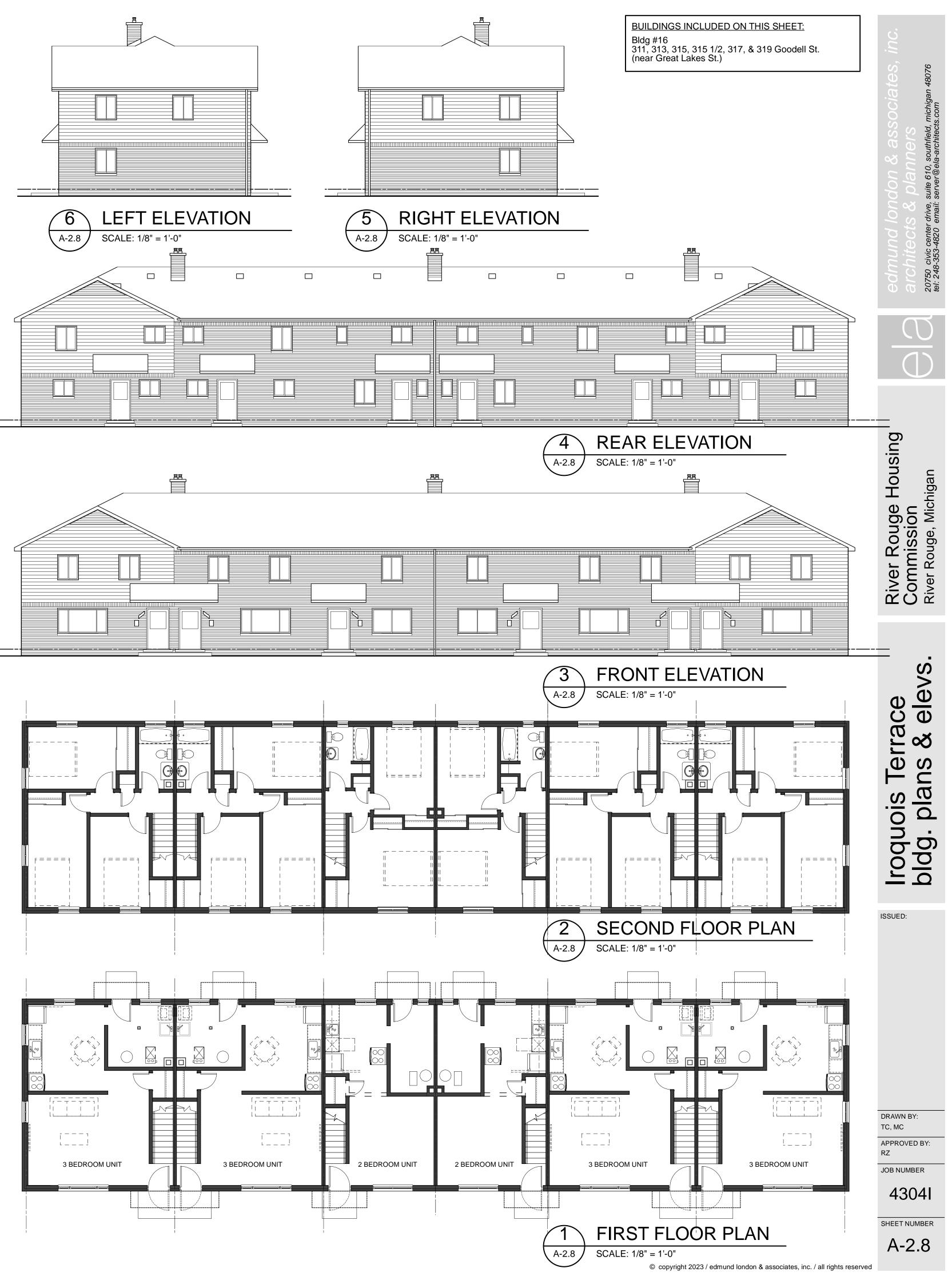


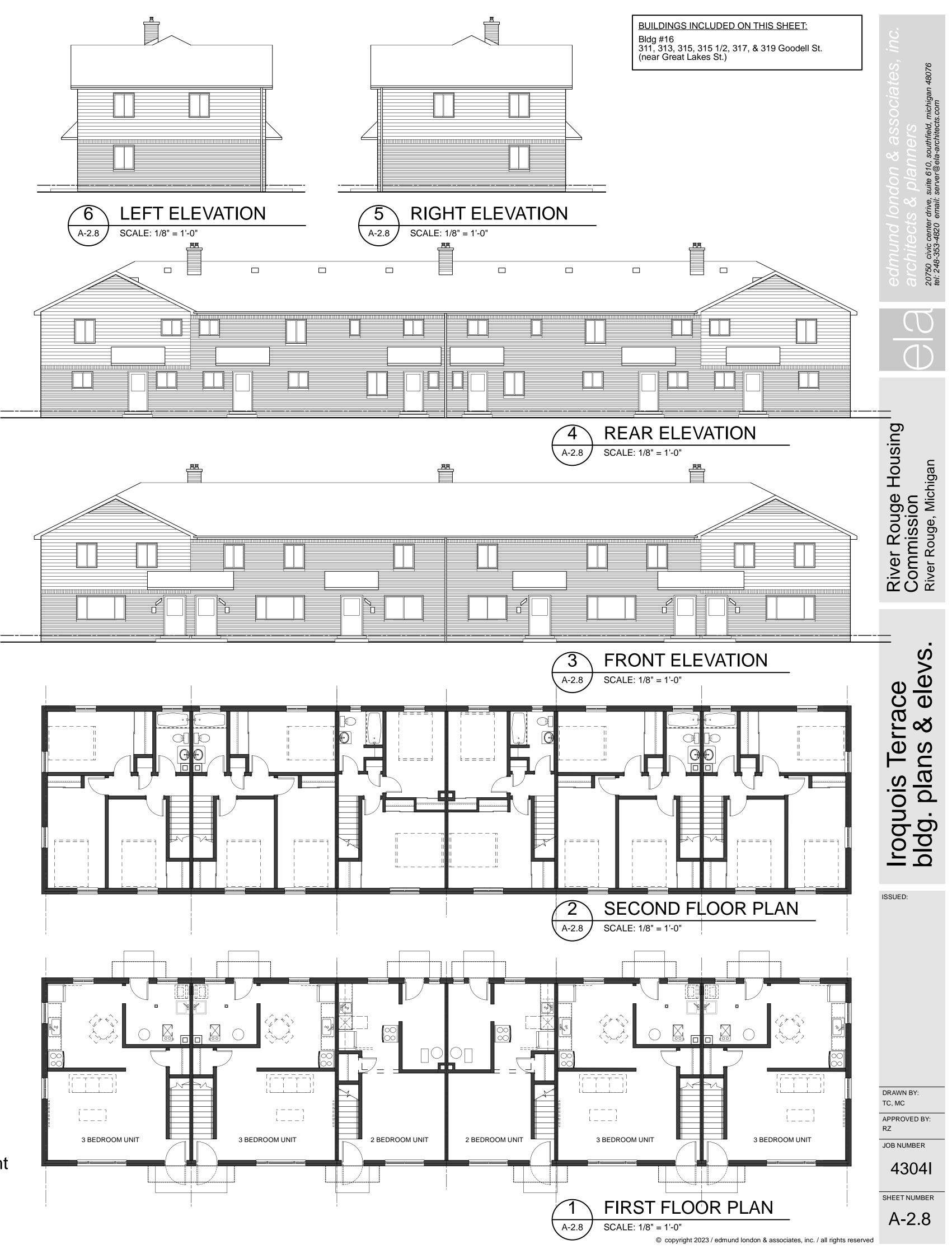
Building #16 - Front

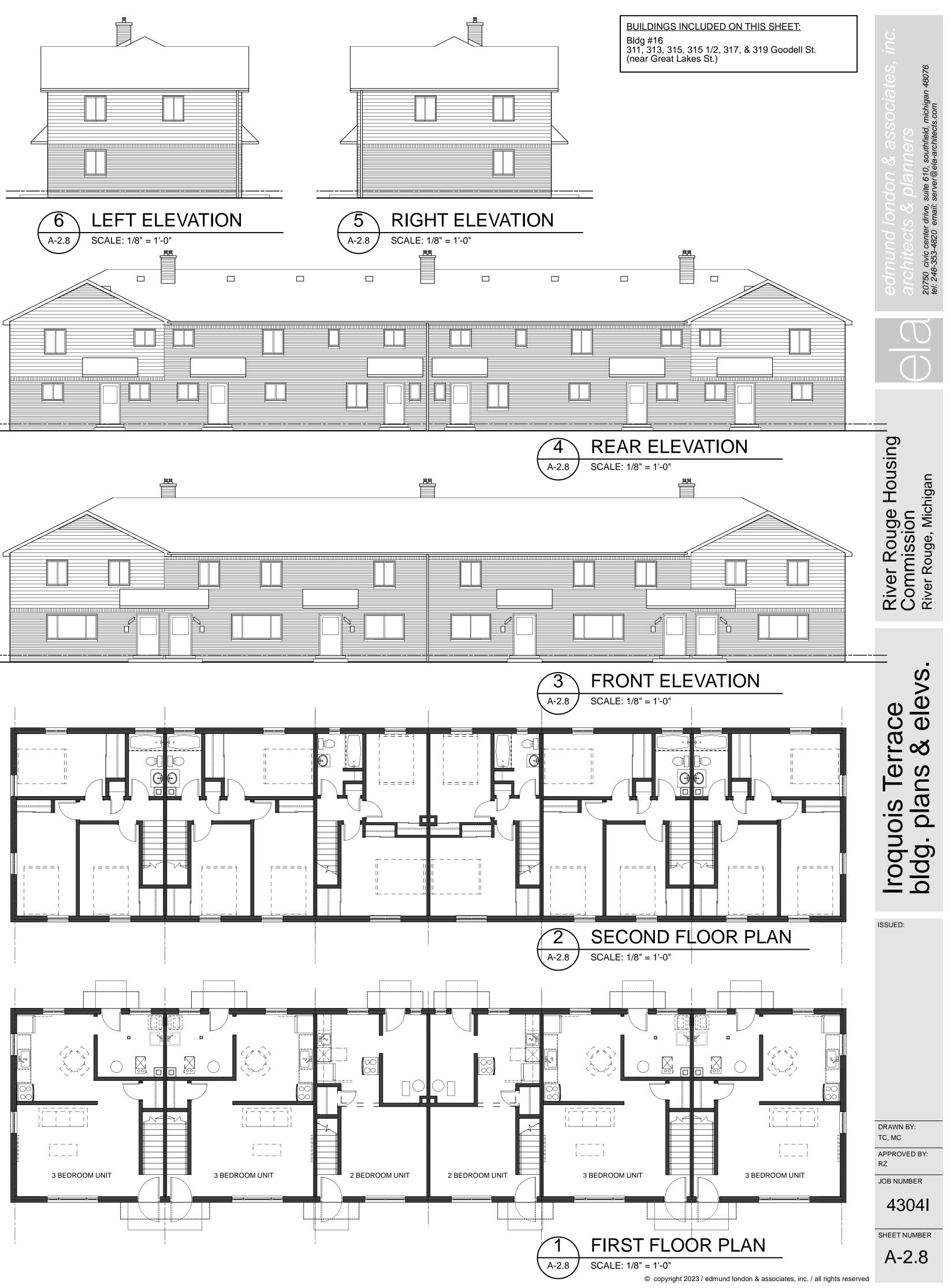


Building #16 - Rear









Building #16 - Left Building #16 - Right

and the

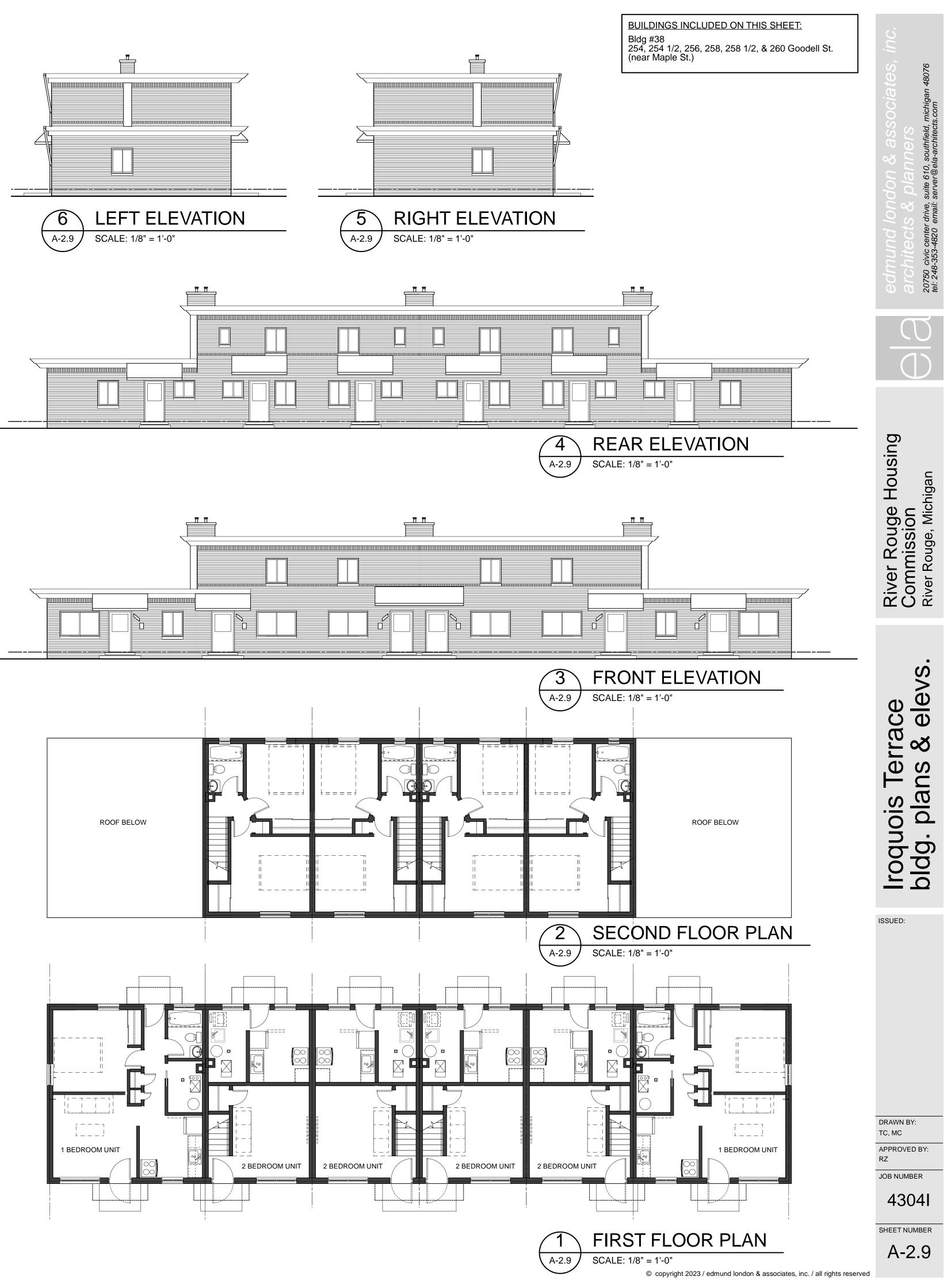


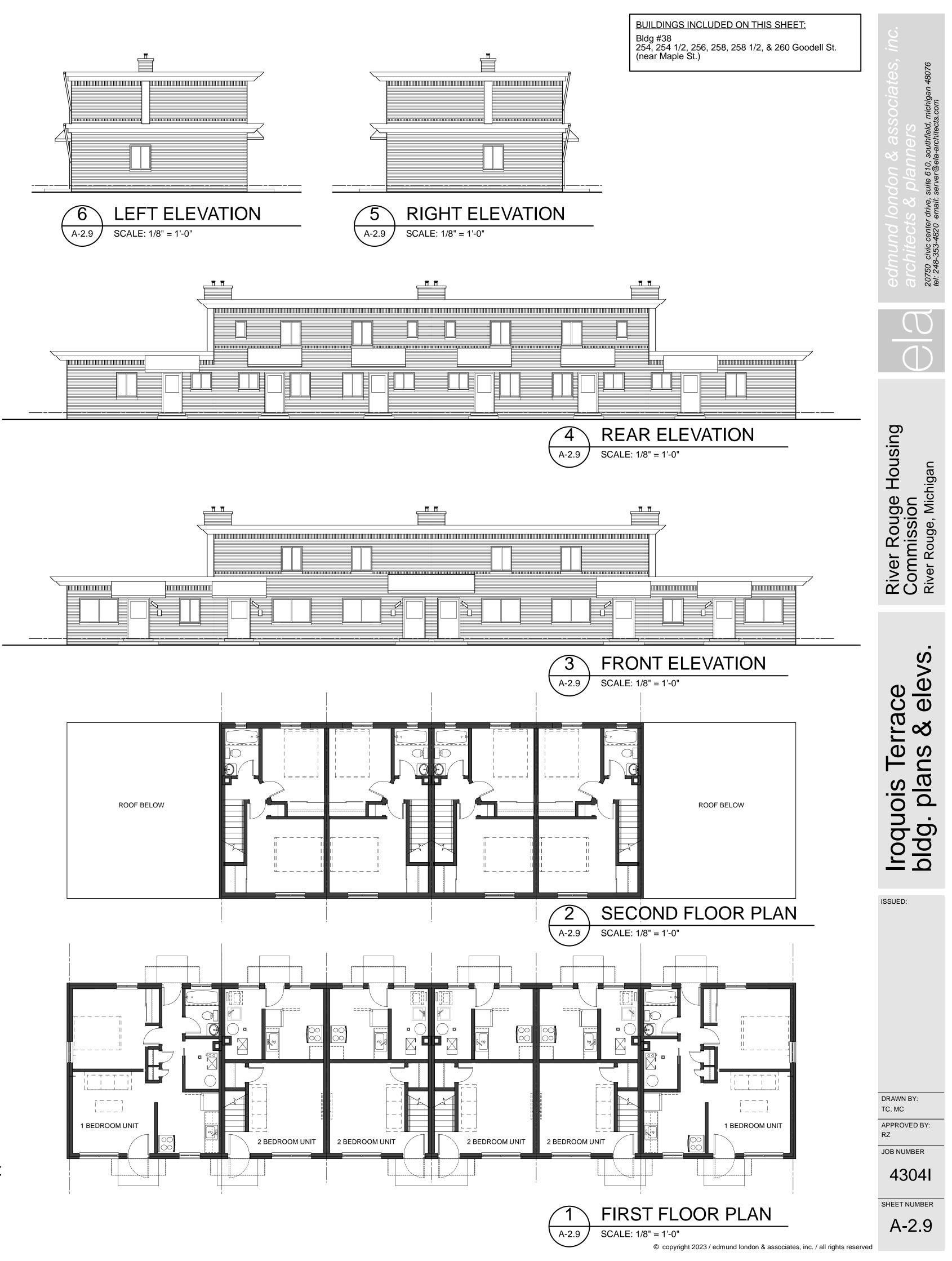
Building #38 - Front

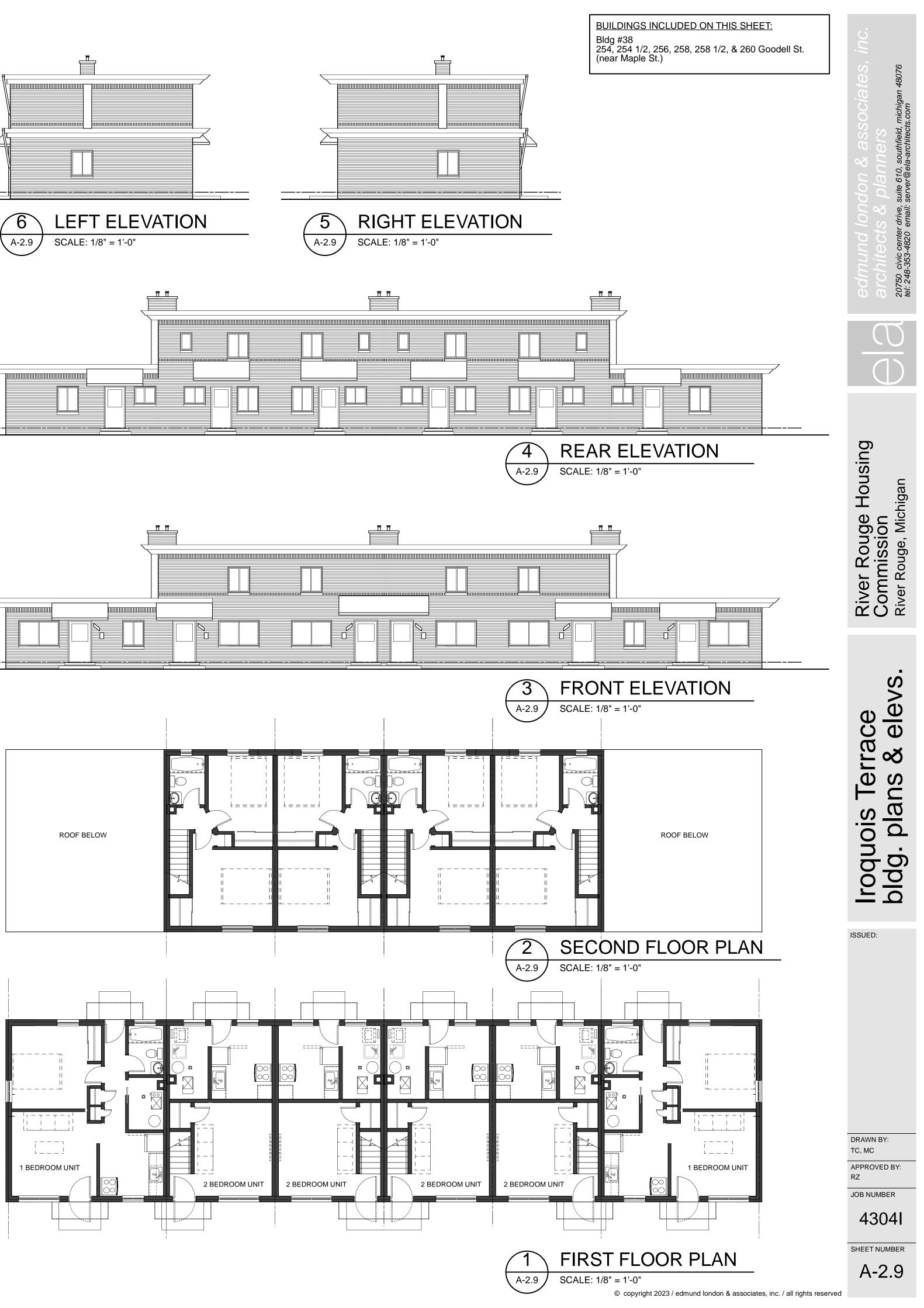


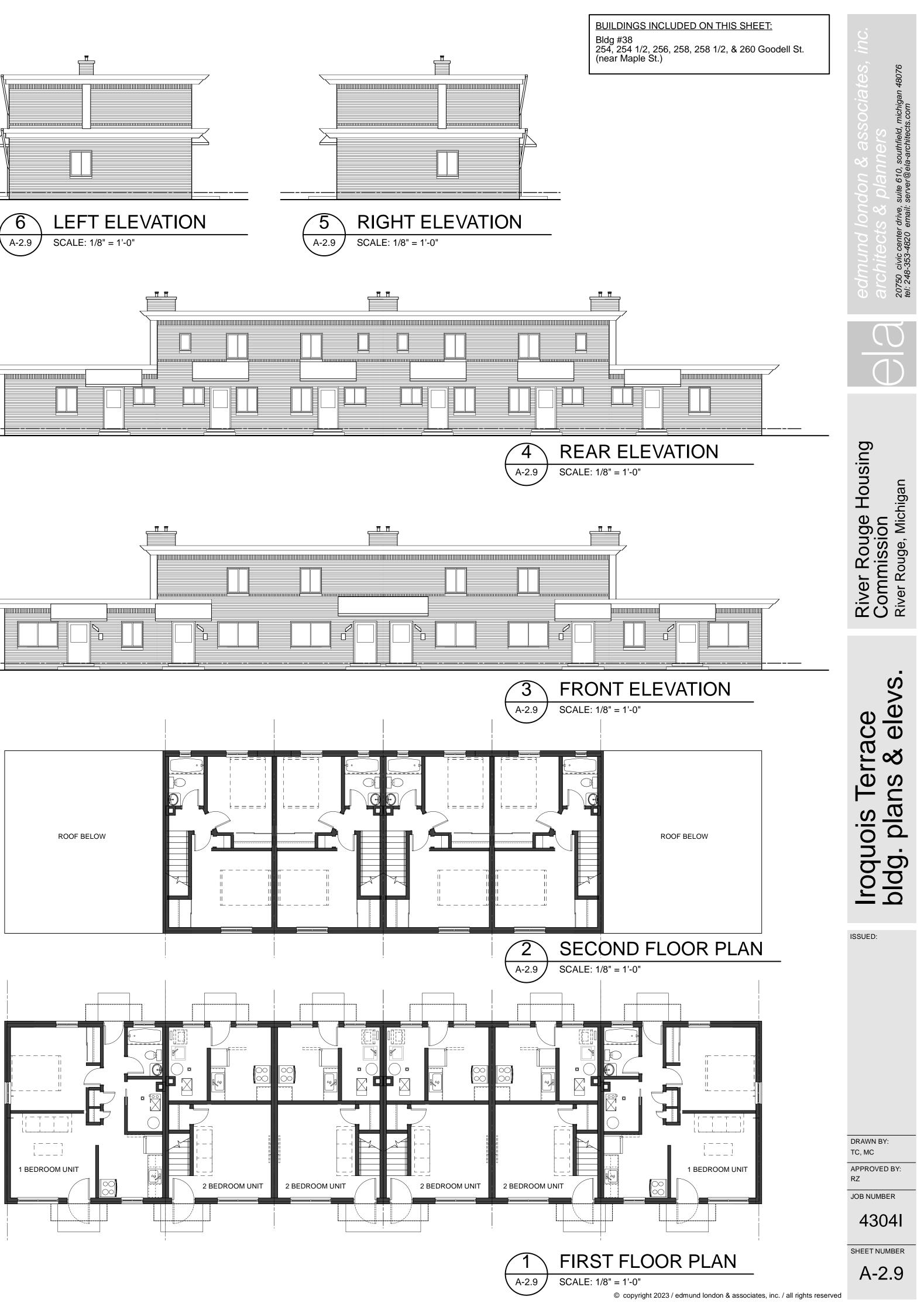
Building #38 - Rear









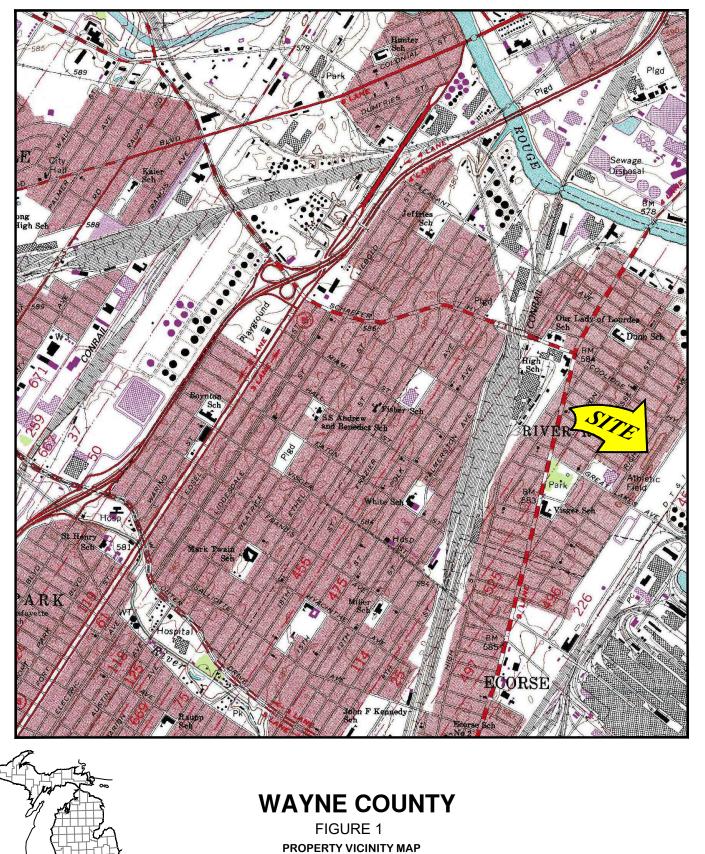




Building #38 - Left Building #38 - Right

Attachment 2

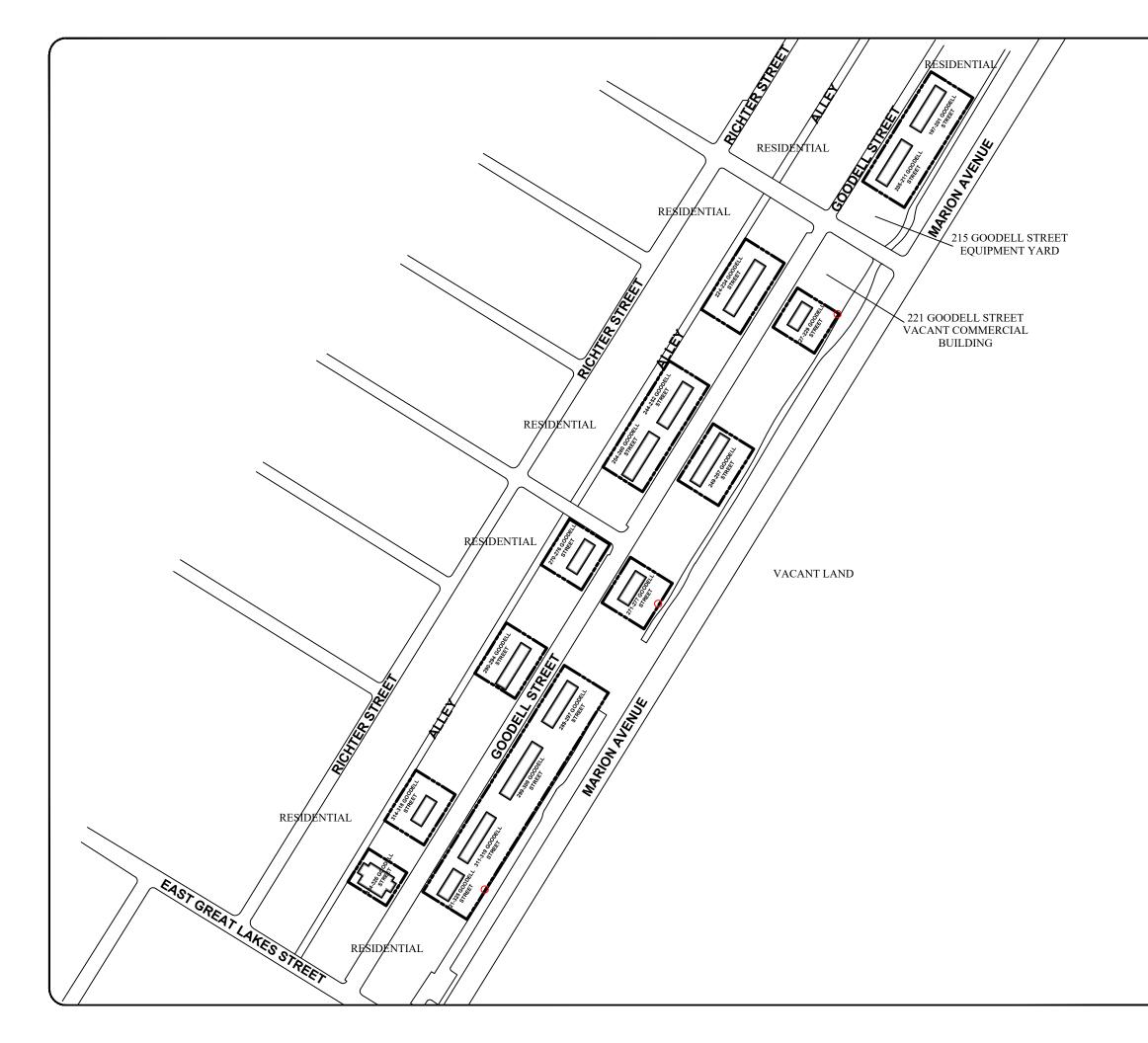


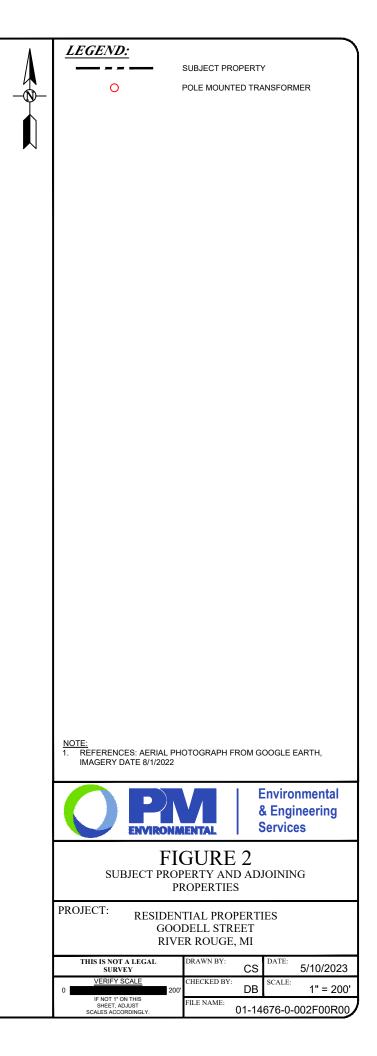


UNITED STATES GEOLOGICAL SURVEY, 7.5 MINUTE SERIES DEARBORN, MI QUADRANGLE, 1968. PHOTO REVISED 1983.

MICHIGAN QUADRANGLE LOCATION

I Environmental	PROJ: RESIDENTIAL PROPERTIES	THIS IS NOT A LEGAL SURVEY	DRN BY: CS	^{DATE:} 5/10/2023
& Engineering	GOODELL STREET RIVER ROUGE, MI	0 2000'	СНКД ВҮ: DB	SCALE: 1" = 2,000'
ENVIRONMENTAL Services	KIVER KOOGE, MI	IF NOT 1" ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	FILE NAME: 01-14676-	-0-002F00R00





Attachment 3











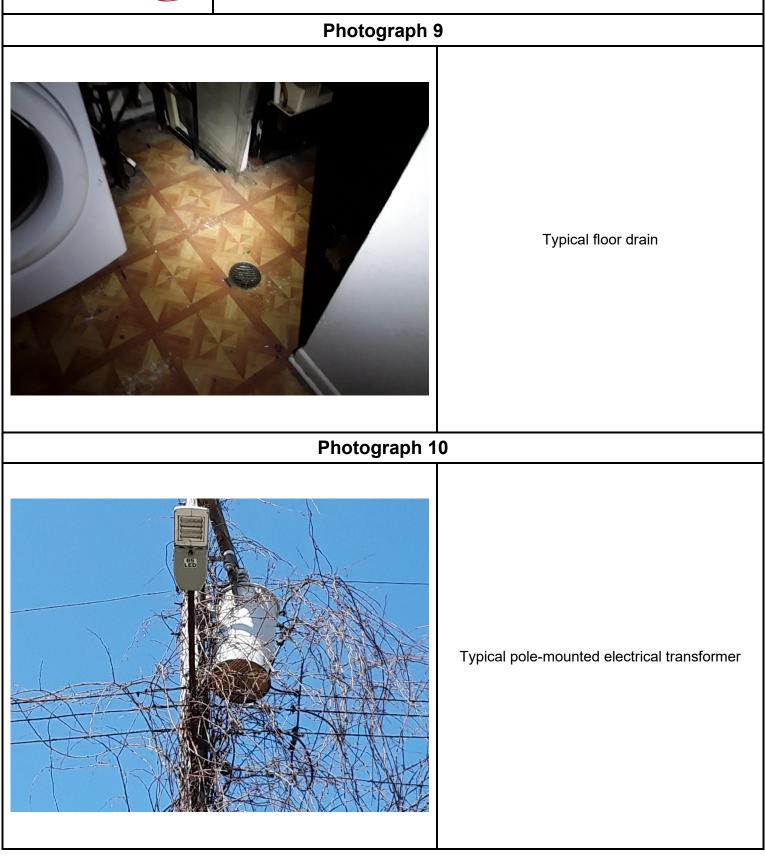














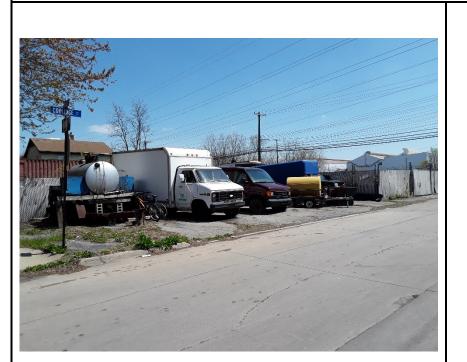




East adjoining vacant land



Photograph 13



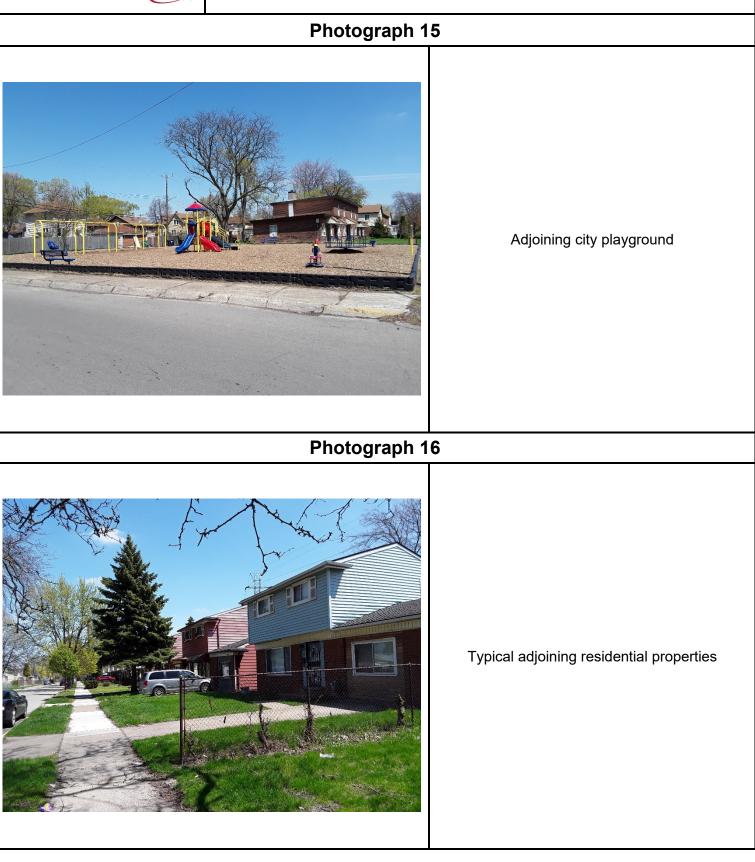
Adjoining equipment yard; 215 Goodell Street

Photograph 14



Adjoining vacant building; 221 Goodell Street

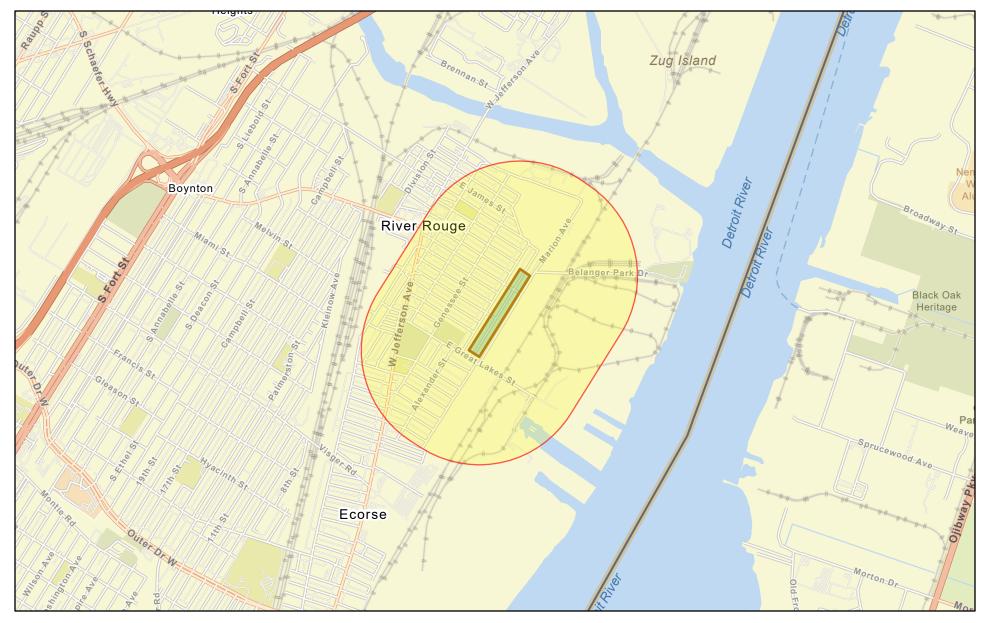




Attachment 4



Letter ANSI A Landscape







Project 1

1:36,112 0.23 0.4Ś 0 0.9 mi 0.35 0.7 1.4 km 0

Province of Ontario, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS,

Letter ANSI A Landscape





Project Buffer



1:144,448 0 0.75 1.5 3 mi ├──┴─┴─┴─┴─┴─┬──┐ 0 1.5 3 6 km

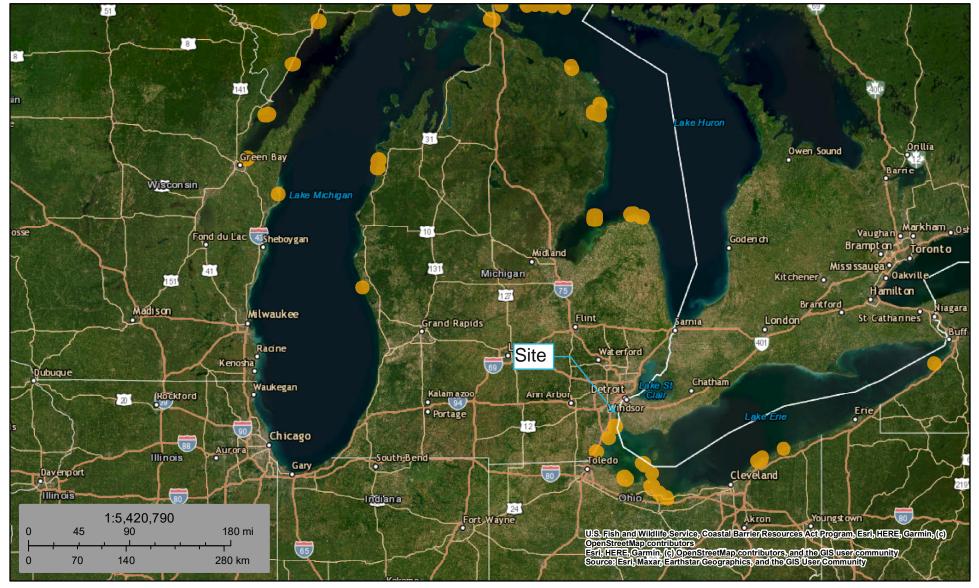
Province of Ontario, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, EPA OEI





U.S. Fish and Wildlife Service Coastal Barrier Resources System

CBRS



June 18, 2024

Generalized Units

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

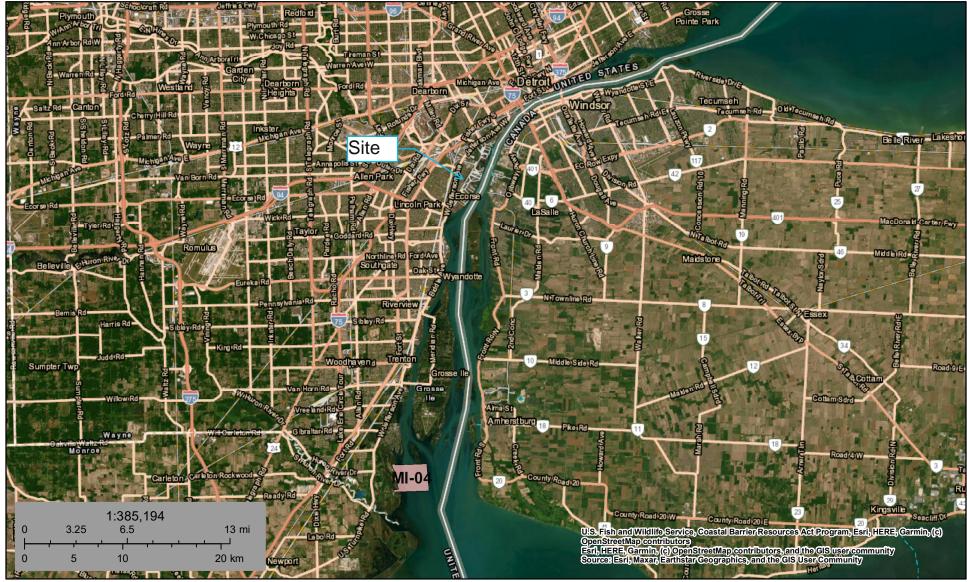
The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (<u>https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation</u>) as to whether the property or project site is located "in" or "out" of the CBRS.

CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward This page was produced by the CBRS Mapper



U.S. Fish and Wildlife Service Coastal Barrier Resources System

CBRS



June 25, 2024

CBRS Units



Otherwise Protected Area

System Unit

This map is for general reference only. The Coastal Barrier Resources System (CBRS) boundaries depicted on this map are representations of the controlling CBRS boundaries, which are shown on the official maps, accessible at https://www.fws.gov/library/collections/official-coastal-barrier-resources-system-maps. All CBRS related data should be used in accordance with the layer metadata found on the CBRS Mapper website.

The CBRS Buffer Zone represents the area immediately adjacent to the CBRS boundary where users are advised to contact the Service for an official determination (<u>https://www.fws.gov/service/coastal-barrier-resources-system-property-documentation</u>) as to whether the property or project site is located "in" or "out" of the CBRS.

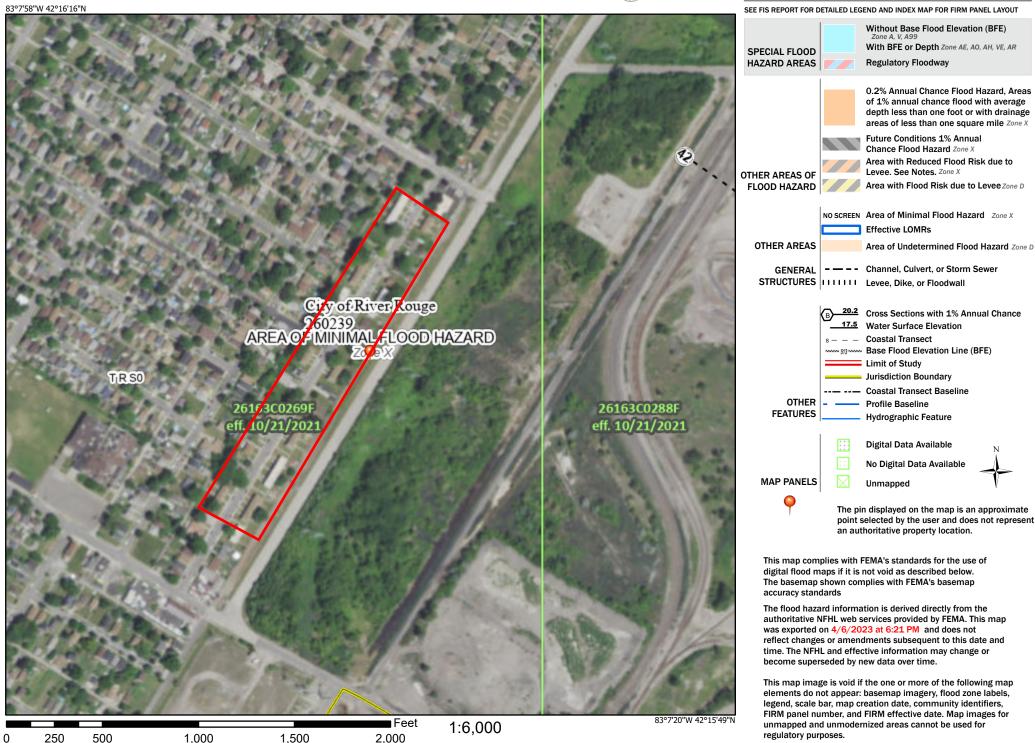
CBRS Units normally extend seaward out to the 20- or 30-foot bathymetric contour (depending on the location of the unit). The true seaward This page was produced by the CBRS Mapper



National Flood Hazard Layer FIRMette



Legend



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



Attainment Status for the National Ambient Air Quality Standards

The National Ambient Air Quality Standards (NAAQS) are health-based pollution standards set by EPA.

Ontonagon

Gogebic

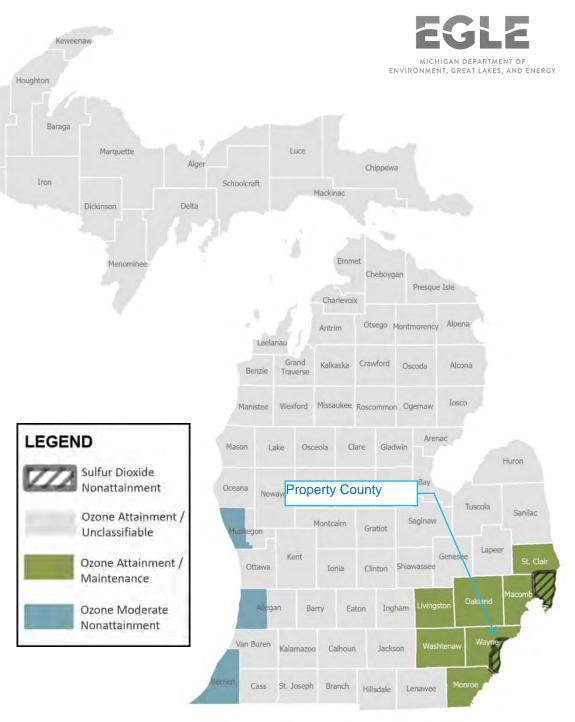
Areas of the state that are below the NAAQS concentration level are called **attainment areas**. The entire state of Michigan is in attainment for the following pollutants:

- Carbon Monoxide (CO)
- Lead (Pb)
- Nitrogen Dioxide (NO2)
- Particulate Matter (PM10 & PM2.5)

Nonattainment areas are those that have concentrations over the NAAQS level. Portions of the state are in nonattainment for sulfur dioxide and ozone (see map.) The ozone nonattainment area is classified as moderate.

Areas of the state that were previously classified as nonattainment but have since reduced their concentration levels below the NAAQS can be redesignated to attainment and are called **attainment/maintenance areas**. These areas are also commonly referred to as "attainment" after reclassification, however the state must continue monitoring and submitting documentation for up to 20 years after the redesignated. There are several maintenance areas throughout the state for lead, ozone, and particulate matter.

*For readability purposes the map only includes the most recently reclassified ozone maintenance area in southeast Michigan. For more information, please consult the Michigan.gov/AIR webpage or contact the division directly.



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

Close-Up Maps of Partial County Nonattainment Areas

Sulfur Dioxide Nonattainment Areas

St. Clair County

Clyde Kenockee Fort Gratiot Aussey Emmett Port Port Huron Huron Kimball Wales Riley Berlin arvsvi Memphis 19 Columbus Armada Armada Richmond St. Clair St Cla Richmon China East Ray Lenox Chin New Haven Macomb Marine Ita Cottrellvi 40 Chesterfield New Baltin Macomb Clay ANAS Mt Clemen Wall



Ozone Moderate Nonattainment Areas

Allegan County



Muskegon County



Q

Criteria Air Pollutants

NAAQS Table

The Clean Air Act <https://epa.gov/clean-air-act-overview>, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for six principal pollutants ("criteria" air pollutants <https://epa.gov/criteria-air-pollutants>) which can be harmful to public health and the environment. The Clean Air Act identifies two types of national ambient air quality standards. *Primary standards* provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. *Secondary standards* provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

Periodically, the standards are reviewed and sometimes may be revised, establishing new standards. The most recently established standards are listed below. In some areas of the U.S., certain regulatory requirements may also remain for implementation of previously established standards https://epa.gov/ground-level-ozone-pollution/ozone-implementation-regulatory-actions.

Units of measure for the standards are parts per million (ppm) by volume, parts per billion (ppb) by volume, and micrograms per cubic meter of air ($\mu g/m^3$).

Pollutant [links to historical tables of NAAQS reviews]	Primary/ Secondary	Averaging Time	Level	Form		
Carbon Monoxide (CO) <https: co-pollution="" epa.gov="" td="" timeline-<=""><td>primary</td><td>8 hours</td><td>9 ppm</td><td>Not to be exceeded</td></https:>	primary	8 hours	9 ppm	Not to be exceeded		
carbon-monoxide-co-national-ambient- air-quality-standards-naaqs>	primary	1 hour	35 ppm	- more than once per year		
Lead (Pb) <https: epa.gov="" lead-air-<br="">pollution/timeline-lead-pb-national- ambient-air-quality-standards-naaqs></https:>	primary and secondary	Rolling 3 month average	0.15 μg/m ^{3 (1)}	Not to be exceeded		

Pollutant [links to historical tables of NAAQS reviews]		Primary/ Secondary	Averaging Time	Level	Form	
Nitrogen Dioxide (NO ₂) <https: epa.gov="" no2-pollution="" timeline-<br="">nitrogen-dioxide-no2-national-ambient- air-quality-standards-naaqs> Ozone (O₃) <https: epa.gov="" ground-<br="">level-ozone-pollution/timeline-ozone- national-ambient-air-quality-standards- naaqs></https:></https:>		primary	1 hour	100 ppb	98th percentile of 1-hour daily maximum concentrations, averaged over 3 years	
		primary and secondary	1 year 53 ppb ⁽²⁾ Ann		Annual Mean	
		primary and secondary	8 hours	0.070 ppm ⁽³⁾	Annual fourth- highest daily maximum 8-hour concentration, averaged over 3 years	
		primary	rimary 1 year 9.0 μg/m ³		annual mean, averaged over 3 years	
Particle Pollution (PM) <https: epa.gov="" pm-<="" td=""><td>PM_{2.5}</td><td>secondary</td><td>1 year</td><td>15.0 μg/m³</td><td>annual mean, averaged over 3 years</td></https:>	PM _{2.5}	secondary	1 year	15.0 μg/m ³	annual mean, averaged over 3 years	
pollution/timeline- particulate-matter-pm- national-ambient-air- quality-standards-naaqs>		primary and secondary	24 hours	35 μg/m ³	98th percentile, averaged over 3 years	
	PM ₁₀	primary and secondary	24 hours	150 μg/m ³	Not to be exceeded more than once per year on average over 3 years	

Pollutant [links to historical tables of NAAQS reviews]	Primary/ Secondary	Averaging Time	Level	Form
Sulfur Dioxide (SO ₂) <https: epa.gov="" so2-pollution="" timeline-<br="">sulfur-dioxide-national-ambient-air-</https:>	primary	1 hour	75 ppb ⁽⁴⁾	99th percentile of 1-hour daily maximum concentrations, averaged over 3 years
quality-standards-naaqs>	secondary	3 hours	0.5 ppm	Not to be exceeded more than once per year

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 μ g/m3 as a calendar quarter average) also remain in effect.

(2) The level of the annual NO₂ standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O₃ standards are not revoked and remain in effect for designated areas. Additionally, some areas may have certain continuing implementation obligations under the prior revoked 1-hour (1979) and 8-hour (1997) O₃ standards.

(4) The previous SO₂ standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas: (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and (2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO₂ standards or is not meeting the requirements of a SIP call under the previous SO₂ standards (40 CFR 50.4(3)). A SIP call is an EPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS.

Menu of Control Measures for NAAQS Implementation

The Menu of Control Measures (MCM) provides state, local and tribal air agencies with the existing emission reduction measures as well as relevant information concerning the efficiency and cost effectiveness of the measures. State, local and tribal agencies will be able to use this information in developing emission reduction strategies, plans and programs to assure they attain and maintain the National Ambient Air Quality Standards (NAAQS). The MCM is a living document that can be updated with newly available or more current data as it becomes available.

Menu of Control Measures https://epa.gov/criteria-air-pollutants/menu-control-measures-naaqs-implementation

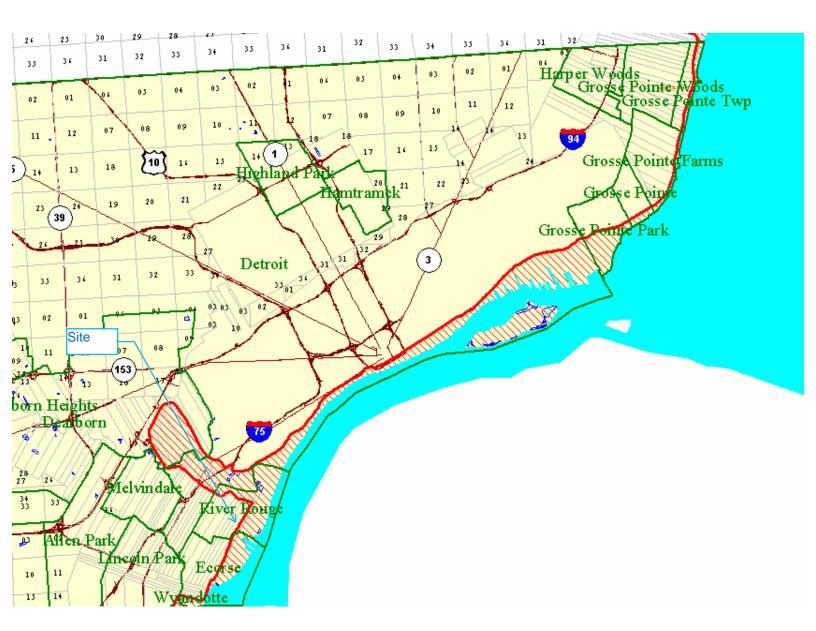
Criteria Air Pollutants Home <https://epa.gov/criteria-air-pollutants>

Information by Pollutant https://epa.gov/criteria-air-pollutants/information-pollutants/



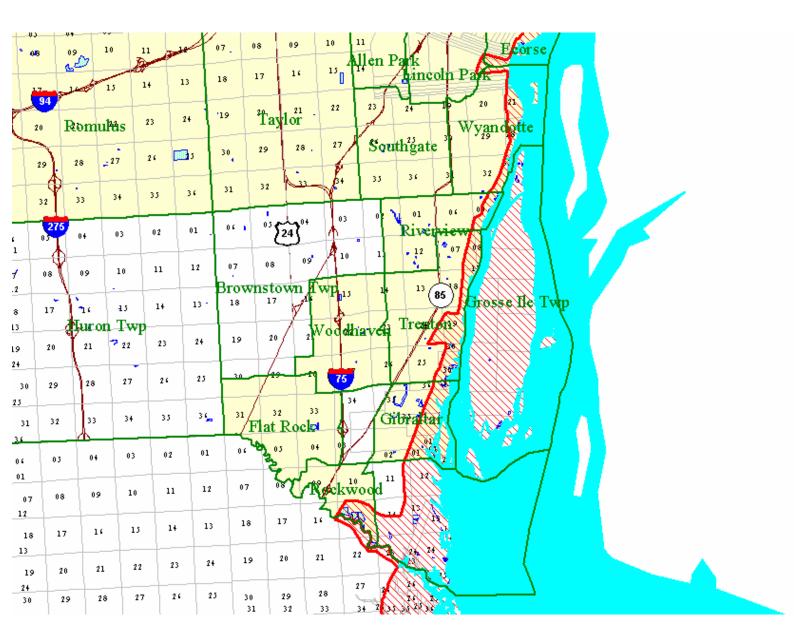
Wayne County Grosse Point Township, Grosse Point Woods, Grosse Point Farms Grosse Point, Grosse Point Park, and Detroit, T1S R14E Detroit, T1S R14E, T2S R13E, andT2S R12E River Rouge, T2S R11E

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



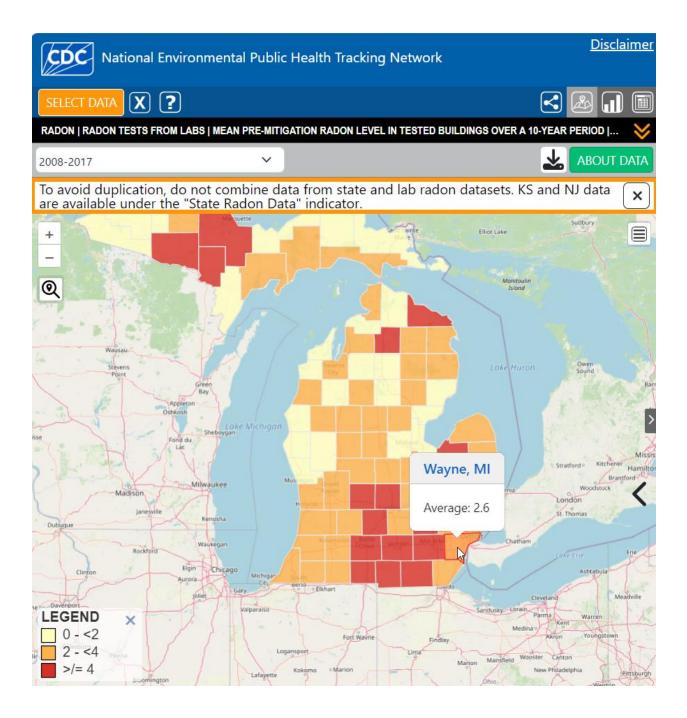
Wayne County Ecorse, Lincoln Park, Wyandotte and Riverview, T3S R11E Trenton, T4S R11E Rockwood, Gibraltar and Brownstown Township T5S R10E

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













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



In Reply Refer To: Project Code: 2024-0109357 Project Name: 197-326 Goodell St, River Rouge

06/26/2024 20:39:11 UTC

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Official Species List

The attached species list identifies any Federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Under 50 CFR 402.12(e) (the regulations that implement section 7 of the Endangered Species Act), the accuracy of this species list should be verified after 90 days. You may verify the list by visiting the IPaC website (<u>https://ipac.ecosphere.fws.gov/</u>) at regular intervals during project planning and implementation. To update an Official Species List in IPaC: from the My Projects page, find the project, expand the row, and click Project Home. In the What's Next box on the Project Home page, there is a Request Updated List button to update your species list. Be sure to select an "official" species list for all projects.

Consultation requirements and next steps

Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize Federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-Federal representative) must consult with the Fish and Wildlife Service if they determine their project may affect listed species or critical habitat.

There are two approaches to evaluating the effects of a project on listed species.

<u>Approach 1. Use the All-species Michigan determination key in IPaC.</u> This tool can assist you in making determinations for listed species for some projects. In many cases, the determination key

will provide an automated concurrence that completes all or significant parts of the consultation process. Therefore, we strongly recommend screening your project with the **All-Species Michigan Determination Key (Dkey)**. For additional information on using IPaC and available Determination Keys, visit <u>https://www.fws.gov/media/mifo-ipac-instructions</u> (and click on the attachment). Please carefully review your Dkey output letter to determine whether additional steps are needed to complete the consultation process.

Approach 2. Evaluate the effects to listed species on your own without utilizing a determination key. Once you obtain your official species list, you are not required to continue in IPaC, although in most cases using a determination key should expedite your review. If the project is a Federal action, you should review our section 7 step-by-step instructions before making your determinations: https://www.fws.gov/office/midwest-region-headquarters/midwest-section-7-technical-assistance. If you evaluate the details of your project and conclude "no effect," document your findings, and your listed species review is complete; you do not need our concurrence on "no effect" determinations. If you cannot conclude "no effect," you should coordinate/consult with the Michigan Ecological Services Field Office. The preferred method for submitting your project description and effects determination (if concurrence is needed) is electronically to EastLansing@fws.gov. Please include a copy of this official species list with your request.

For all **wind energy projects**, please contact this field office directly for assistance, even if no Federally listed plants, animals or critical habitat are present within your proposed project area or may be affected by your proposed project.

Migratory Birds

Please see the "Migratory Birds" section below for important information regarding incorporating migratory birds into your project planning. Our Migratory Bird Program has developed recommendations, best practices, and other tools to help project proponents voluntarily reduce impacts to birds and their habitats. The Bald and Golden Eagle Protection Act prohibits the take and disturbance of eagles without a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at https://www.fws.gov/program/eagle-management to help you avoid impacting eagles or determine if a permit may be necessary.

Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your consideration of threatened and endangered species during your project planning. Please include a copy of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Michigan Ecological Services Field Office

2651 Coolidge Road Suite 101 East Lansing, MI 48823-6360 (517) 351-2555

PROJECT SUMMARY

Project Code:2024-0109357Project Name:197-326 Goodell St, River RougeProject Type:Federal Grant / Loan RelatedProject Description:RedevelopmentProject Location:Federal Grant / Loan Related

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@42.2679131,-83.12780774957007,14z</u>



Counties: Wayne County, Michigan

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 3 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat <i>Myotis sodalis</i> There is final critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/5949</u> General project design guidelines: <u>https://ipac.ecosphere.fws.gov/project/FZC5LGXU2RCO5DN4HOGH5JXBSE/documents/</u> <u>generated/6982.pdf</u>	Endangered
 Northern Long-eared Bat Myotis septentrionalis No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: This species only needs to be considered if the project includes wind turbine operations. Species profile: https://ecos.fws.gov/ecp/species/9045 BIRDS 	Endangered
NAME	STATUS
 Rufa Red Knot <i>Calidris canutus rufa</i> There is proposed critical habitat for this species. This species only needs to be considered under the following conditions: Only actions that occur along coastal areas during the Red Knot migratory window of MAY 1 - SEPTEMBER 30. Species profile: https://ecos.fws.gov/ecp/species/1864 	Threatened
NAME	STATUS
Eastern Massasauga (=rattlesnake) Sistrurus catenatus No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: • For all Projects: Project is within EMR Range Species profile: https://ecos.fws.gov/ecp/species/2202 General project design guidelines: https://ipac.ecosphere.fws.gov/project/FZC5LGXU2RC05DN4H0GH5JXBSE/documents/ generated/5280.pdf	Threatened
CLAMS NAME	STATUS
Northern Riffleshell <i>Epioblasma rangiana</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/527</u>	Endangered
INSECTS NAME	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate

NAME

NAME

STATUS

No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>

FLOWERING PLANTS

Eastern Prairie Fringed Orchid *Platanthera leucophaea* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/601</u>

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act¹ and the Migratory Bird Treaty Act².

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats³, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The <u>Migratory Birds Treaty Act</u> of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>

STATUS

Threatened

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus	Breeds Dec 1 to
This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention	Aug 31
because of the Eagle Act or for potential susceptibilities in offshore areas from certain	0
types of development or activities.	
https://ecos.fws.gov/ecp/species/1626	

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (**■**)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (=)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort ()

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)

A week is marked as having no data if there were no survey events for that week.

			p rob	ability o	f presen	ce 📕 br	reeding s	eason	survey	effort	— no data
SPECIES Bald Eagle Non-BCC Vulnerable	JAN	FEB	APR	MAY	JUN 	JUL • • • • •	AUG +	SEP	OCT	NOV	DEC

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats³ should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9406</u>	Breeds Mar 15 to Aug 25

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (=)

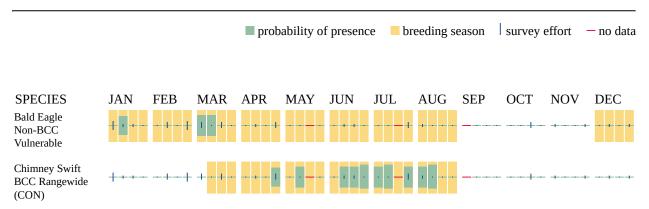
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency:River Rouge cityName:Lindsey SorensenAddress:2034 84th StreetCity:Byron CenterState:MIZip:49315Emailsorensen@pmenv.comPhone:616221777

LEAD AGENCY CONTACT INFORMATION

Lead Agency: River Rouge city



Letter ANSI A Landscape









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.

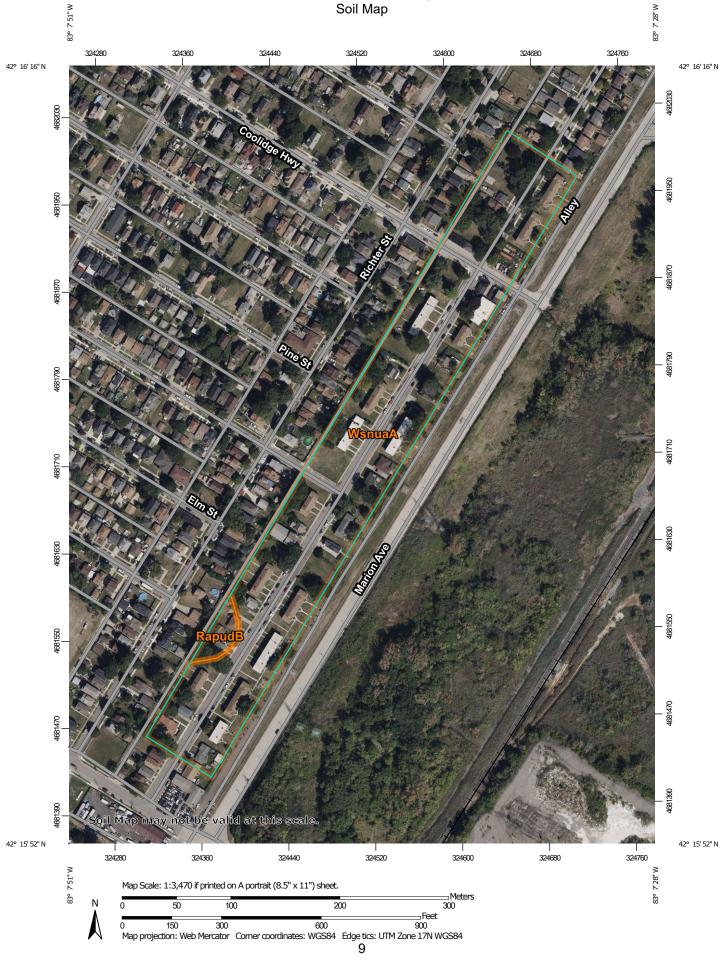
After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

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.

Custom Soil Resource Report Soil Map



	MAP L	EGEND		MAP INFORMATION
Area of Int	terest (AOI) Area of Interest (AOI)	8	Spoil Area Stony Spot	The soil surveys that comprise your AOI were mapped at 1:12,000.
Soils	Soil Map Unit Polygons	Ø V	Very Stony Spot Wet Spot	Warning: Soil Map may not be valid at this scale.
 D Special	Soil Map Unit Lines Soil Map Unit Points Point Features	ے 	Other Special Line Features	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
() () () () () () () () () () () () () (Blowout Borrow Pit	Water Fea	Streams and Canals	scale.
¥ ♦	Clay Spot Closed Depression	Transport	ation Rails Interstate Highways	Please rely on the bar scale on each map sheet for map measurements.
*	Gravel Pit Gravelly Spot	~	US Routes Major Roads	Source of Map: Natural Resources Conservation Service Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
0 1	Landfill Lava Flow	Backgrou	Local Roads nd	Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the
*	Marsh or swamp Mine or Quarry		Aerial Photography A	Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.
0	Miscellaneous Water Perennial Water			This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
+	Rock Outcrop Saline Spot			Soil Survey Area: Wayne County, Michigan Survey Area Data: Version 9, Aug 25, 2023
:: =	Sandy Spot Severely Eroded Spot			Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.
\$ }	Sinkhole Slide or Slip			Date(s) aerial images were photographed: Sep 8, 2022—Oct 4, 2022
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
RapudB	Rapson-Urban land-Colwood complex, dense substratum, 0 to 4 percent slopes	0.3	2.6%
WsnuaA	Wauseon-Urban land complex, 0 to 2 percent slopes	11.5	97.4%
Totals for Area of Interest		11.8	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

RapudB—Rapson-Urban land-Colwood complex, dense substratum, 0 to 4 percent slopes

Map Unit Setting

National map unit symbol: 2tx7b Elevation: 570 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

Rapson, 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 Rapson, Human Transported Surface

Setting

Landform: Deltas Down-slope shape: Linear Across-slope shape: Convex, linear Parent material: Sandy and loamy human-transported material over sandy glaciolacustrine deposits over loamy glaciolacustrine deposits over clayey lodgment till

Typical profile

 A *u* - 0 to 9 inches: sandy loam C *u* - 9 to 12 inches: sandy loam Bwb1 - 12 to 18 inches: sand Bwb2 - 18 to 24 inches: sand Cg1 - 24 to 30 inches: sand 2Cg2 - 30 to 65 inches: silt loam 3Cd - 65 to 80 inches: clay

Properties and qualities

Slope: 0 to 4 percent
Depth to restrictive feature: 51 to 70 inches to densic material
Drainage class: Somewhat poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 30 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 35 percent
Gypsum, maximum content: 1 percent
Maximum salinity: Nonsaline (0.1 to 1.5 mmhos/cm)
Available water supply, 0 to 60 inches: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8 Hydrologic Soil Group: C Ecological site: F099XY003MI - Warm Moist Sandy Depression 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: Deltas Down-slope shape: Linear Across-slope shape: Convex, linear Parent material: Loamy human-transported material over loamy glaciolacustrine deposits over clayey lodgment till

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 65 inches: silt loam 2Cd - 65 to 80 inches: clay

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 56 to 70 inches to densic material
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 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:* F099XY013MI - Wet Lake Plain Flats *Hydric soil rating:* No

Minor Components

Anthroportic udorthents, dense substratum

Percent of map unit: 3 percent Landform: Deltas Down-slope shape: Linear Across-slope shape: Convex, linear Ecological site: F099XY007MI - Lake Plain Flats Hydric soil rating: No

Freesoil, human transported surface

Percent of map unit: 2 percent Landform: Deltas Down-slope shape: Linear Across-slope shape: Convex, linear Ecological site: F099XY007MI - Lake Plain Flats Hydric soil rating: No

WsnuaA—Wauseon-Urban land complex, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: 2tx6x Elevation: 570 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

Wauseon, human transported surface, and similar soils: 60 percent Urban land: 35 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wauseon, Human Transported Surface

Setting

Landform: Deltas, backshores Down-slope shape: Linear, concave Across-slope shape: Concave, linear Parent material: Loamy human-transported material over loamy till over clayey lodgment till

Typical profile

^Au - 0 to 9 inches: sandy loam

[^]Cu - 9 to 12 inches: loam Ab - 12 to 22 inches: sandy loam Bgb - 22 to 38 inches: sandy loam Cg - 38 to 52 inches: sandy loam 2Cd - 52 to 80 inches: clay

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: 47 to 57 inches to densic material
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 to 0.00 in/hr)
Depth to water table: About 12 to 22 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 34 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: C/D Ecological site: F099XY013MI - Wet 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

Midtown

Percent of map unit: 3 percent Landform: Deltas, backshores Down-slope shape: Linear, concave Across-slope shape: Convex, linear, concave Ecological site: F099XY007MI - Lake Plain Flats Hydric soil rating: No

Blount, human transported surface

Percent of map unit: 2 percent Landform: Backshores, deltas Microfeatures of landform position: Rises

Custom Soil Resource Report

Down-slope shape: Concave, linear *Across-slope shape:* Concave, linear *Ecological site:* F099XY007MI - Lake Plain Flats *Hydric soil rating:* No

Soil Information for All Uses

Suitabilities and Limitations for Use

The Suitabilities and Limitations for Use section includes various soil interpretations displayed as thematic maps with a summary table for the soil map units in the selected area of interest. A single value or rating for each map unit is generated by aggregating the interpretive ratings of individual map unit components. This aggregation process is defined for each interpretation.

Land Classifications

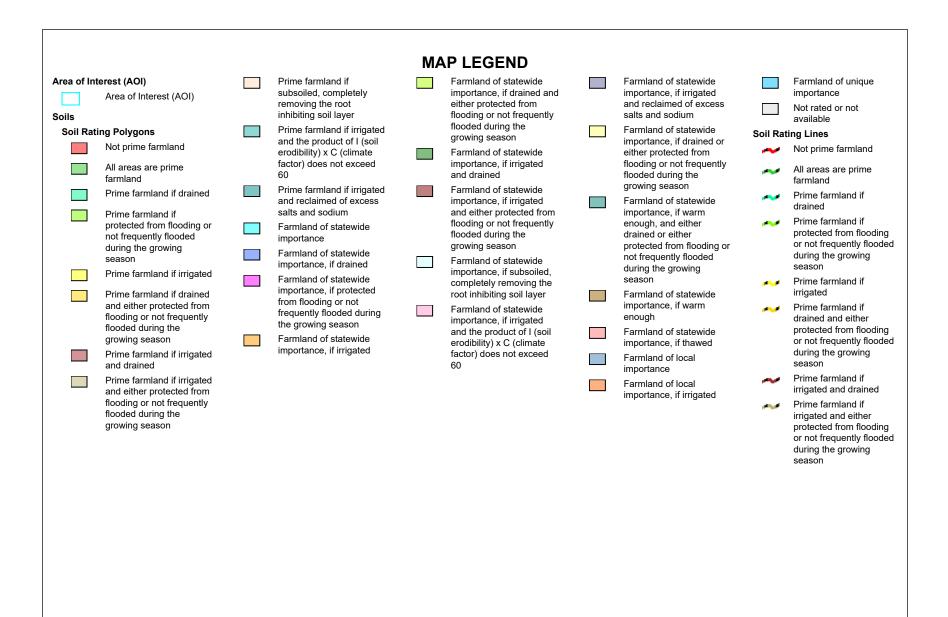
Land Classifications are specified land use and management groupings that are assigned to soil areas because combinations of soil have similar behavior for specified practices. Most are based on soil properties and other factors that directly influence the specific use of the soil. Example classifications include ecological site classification, farmland classification, irrigated and nonirrigated land capability classification, and hydric rating.

Farmland Classification

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Custom Soil Resource Report Map—Farmland Classification





Custom Soil Resource Report

Prime farmland if Farmland of statewide Farmland of statewide Farmland of unique Prime farmland if 1 A الجريدا الجر -----subsoiled, completely importance, if drained and importance, if irrigated importance subsoiled, completely removing the root either protected from and reclaimed of excess removing the root Not rated or not available $\mathcal{F}^{(1)}(\mathcal{F})$ inhibiting soil layer flooding or not frequently salts and sodium inhibiting soil layer flooded during the Soil Rating Points Prime farmland if irrigated Farmland of statewide Prime farmland if arowina season and the product of I (soil importance, if drained or irrigated and the product Not prime farmland erodibility) x C (climate Farmland of statewide either protected from of I (soil erodibility) x C factor) does not exceed importance, if irrigated flooding or not frequently All areas are prime (climate factor) does not and drained flooded during the farmland exceed 60 60 growing season Prime farmland if irrigated Farmland of statewide Prime farmland if drained Prime farmland if --and reclaimed of excess importance, if irrigated Farmland of statewide irrigated and reclaimed -Prime farmland if salts and sodium and either protected from importance, if warm of excess salts and protected from flooding or flooding or not frequently enough, and either sodium Farmland of statewide ----not frequently flooded flooded during the drained or either Farmland of statewide importance during the growing growing season protected from flooding or importance Farmland of statewide **.** not frequently flooded season a 🖬 Farmland of statewide Farmland of statewide importance, if drained during the growing Prime farmland if irrigated importance, if subsoiled. importance, if drained Farmland of statewide season completely removing the importance, if protected Prime farmland if drained Farmland of statewide root inhibiting soil layer Farmland of statewide from flooding or not and either protected from importance, if protected importance, if warm Farmland of statewide 100 frequently flooded during flooding or not frequently from flooding or not enough importance, if irrigated the growing season flooded during the frequently flooded during and the product of I (soil Farmland of statewide growing season the growing season Farmland of statewide 1990 B erodibility) x C (climate importance, if thawed importance, if irrigated Prime farmland if irrigated Farmland of statewide factor) does not exceed Farmland of local 1000 and drained importance, if irrigated 60 importance Prime farmland if irrigated Farmland of local ----and either protected from importance, if irrigated flooding or not frequently flooded during the growing season

Custom Soil Resource Report

Farmland of statewide importance, if drained and either protected from flooding or not frequently	Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium		Farmland of unique importance Not rated or not available	The soil surveys that comprise your AOI were mapped at 1:12,000.
flooded during the growing season	Farmland of statewide importance, if drained or	Water Fea	tures Streams and Canals	Warning: Soil Map may not be valid at this scale.
Farmland of statewide importance, if irrigated and drained	either protected from flooding or not frequently flooded during the	Transport	ation	Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil
Farmland of statewide	growing season Farmland of statewide	~	Rails Interstate Highways	line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed
and either protected from flooding or not frequently	importance, if warm enough, and either	~	US Routes	scale.
flooded during the growing season	drained or either protected from flooding or not frequently flooded	~	Major Roads	Please rely on the bar scale on each map sheet for map measurements.
Farmland of statewide importance, if subsoiled, completely removing the	during the growing season	Backgrou	Local Roads nd	Source of Map: Natural Resources Conservation Service
root inhibiting soil layer Farmland of statewide	Farmland of statewide importance, if warm enough		Aerial Photography	Web Soil Survey URL: Coordinate System: Web Mercator (EPSG:3857)
importance, if irrigated and the product of I (soil erodibility) x C (climate	Farmland of statewide importance, if thawed			Maps from the Web Soil Survey are based on the Web Mercator
factor) does not exceed 60	Farmland of local importance			projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more
	Farmland of local importance, if irrigated			accurate calculations of distance or area are required.
				This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
				Soil Survey Area: Wayne County, Michigan Survey Area Data: Version 9, Aug 25, 2023
				Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.
				Date(s) aerial images were photographed: Sep 8, 2022—Oct 4, 2022
				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.

Table—Farmland Classification

		1		
Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
RapudB	Rapson-Urban land- Colwood complex, dense substratum, 0 to 4 percent slopes	Not prime farmland	0.3	2.6%
WsnuaA	Wauseon-Urban land complex, 0 to 2 percent slopes	Not prime farmland	11.5	97.4%
Totals for Area of Intere	est		11.8	100.0%

Rating Options—Farmland Classification

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower

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Attachment 13





STATE OF MICHIGAN MICHIGAN STRATEGIC FUND State Historic Preservation Office

QUENTIN L. MESSER, JR. PRESIDENT

June 10, 2024

GRETCHEN WHITMER

GOVERNOR

MARY WEIDEL FIELD ENVIRONMENTAL OFFICER REGION V US DEPT OF HOUSING AND URBAN DEVELOPMENT 477 MICHIGAN AVENUE 16TH FLOOR DETROIT MI 48226

RE: ER24-672 Iroquois Terrace, 197-326 Goodall Street, River Rouge, Wayne County (HUD)

Dear Mary Weidel:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that **no historic properties are affected** within the area of potential effects of this undertaking.

This letter evidences City of River Rouge's compliance with 36 CFR § 800.4 "Identification of historic properties," and the fulfillment of City of River Rouge's responsibility to notify the SHPO, as a consulting party in the Section 106 process, under 36 CFR § 800.4(d)(1) "No historic properties affected." If the scope of work changes in any way, please notify this office immediately. In the unlikely event that human remains, or archaeological material are encountered during construction activities related to the above-cited undertaking, work must be halted, and the Michigan SHPO and other appropriate authorities must be contacted immediately.

We remind you that federal agency officials or their delegated authorities are required to involve the public in a manner that reflects the nature and complexity of the undertaking and its effects on historic properties per 36 CFR § 800.2(d). The National Historic Preservation Act also requires that federal agencies consult with any Indian tribe and/or Tribal Historic Preservation Officer (THPO) that attach religious and cultural significance to historic properties that may be affected by the agency's undertakings per 36 CFR § 800.2(c)(2)(ii).

The State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking.

If you have any questions, please contact Cassandra Nelson, Historian, at 517-648-4050 or by email at nelsonc32@michigan.gov. Please reference our project number in all communication with this office regarding this undertaking. Thank you for this opportunity to review and comment, and for your cooperation.

Sincerely,

Carsan Mulson

Cassandra Nelson Historian

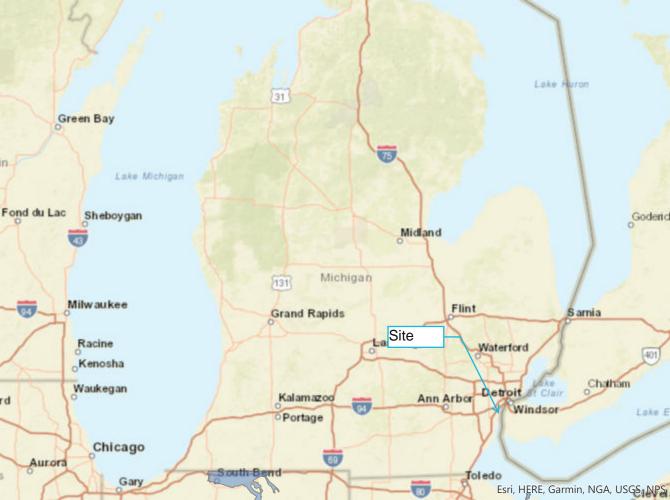
AK:CN

Copy: William Campbell, River Rouge Eboni Nugin, River Rouge Housing Commission Bob Chidester, Mannik & Smith



Attachment 14





Attachment 15





U.S. Fish and Wildlife Service **National Wetlands Inventory**

Wetlands



June 18, 2024

Wetlands

- Estuarine and Marine Wetland

Estuarine and Marine Deepwater

- **Freshwater Pond**

Freshwater Emergent Wetland

Freshwater Forested/Shrub 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.

Wetlands Map Viewer



June 18, 2024

Part 303 Final Wetlands Inventory



Wetlands as identified on NWI and MIRIS maps

Soil areas which include wetland soils

Wetlands as identified on NWI and MIRIS maps and soil areas which include wetland soils

Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

Attachment 16





Even in the "Great Lakes State," rivers play a huge role in the lives of every Michigander. From recreation to creation, Michigan's rivers have carved paths for industries to rise and cities to thrive. The state has over 300 named rivers — several names are shared by different rivers (e.g., there are eight Pine Rivers and seven Black Rivers). In four cases, two rivers of the same name are in one county.

Michigan has approximately 51,438 miles of river, of which 656.4 miles are designated as wild & scenic — just slightly more than 1% of the state's river miles.



Attachment 17



Sepa EJScreen Community Report

This report provides environmental and socioeconomic information for user-defined areas, and combines that data into environmental justice and supplemental indexes.

1 mile Ring Centered at 42.265595,-83.129806 **River Rouge, MI** Population: 8,254 Area in square miles: 3.14 A3 Landscape **COMMUNITY INFORMATION** Less than high **Limited English** People of color: Low income school education: households: 69 percent 66 percent 23 percent 1 percent Persons with Male: Unemployment: Female: disabilities: 18 percent **48 percent** 52 percent 25 percent \$18,656 71 years Owner Number of Average life Per capita occupied: households: expectancy income 3.311 51 percent **BREAKDOWN BY RACE** LANGUAGES SPOKEN AT HOME White: 34% Black: 44% American Indian: 0% Asian: 0% LANGUAGE PERCENT English 89% Hawaiian/Pacific Other race: 0% Hispanic: 16% Two or more Islander: 0% races: 5% Spanish 11% **Total Non-English** 11% **BREAKDOWN BY AGE** From Ages 1 to 4 5% From Ages 1 to 18 25% From Ages 18 and up 75% From Ages 65 and up 11% LIMITED ENGLISH SPEAKING BREAKDOWN

Speak Spanish 100% Speak Other Indo-European Languages 0%

Speak Other Indo-European Languages	0%
Speak Asian-Pacific Island Languages	0%
Speak Other Languages	0%

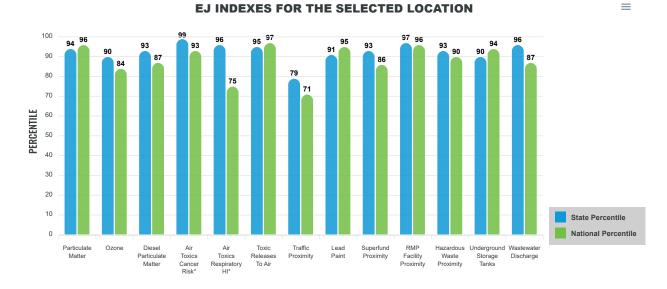
Notes: Numbers may not sum to totals due to rounding. Hispanic population can be of any race. Source: U.S. Census Bureau, American Community Survey (ACS) 2017-2021. Life expectancy data comes from the Centers for Disease Control.

Environmental Justice & Supplemental Indexes

The environmental justice and supplemental indexes are a combination of environmental and socioeconomic information. There are thirteen El indexes and supplemental indexes in ElScreen reflecting the 13 environmental indicators. The indexes for a selected area are compared to those for all other locations in the state or nation. For more information and calculation details on the El and supplemental indexes, please visit the <u>ElScreen website</u>.

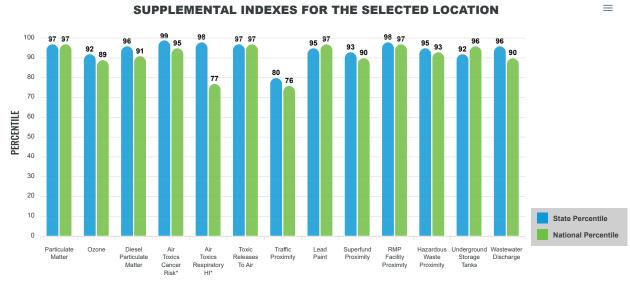
EJ INDEXES

The EJ indexes help users screen for potential EJ concerns. To do this, the EJ index combines data on low income and people of color



SUPPLEMENTAL INDEXES

The supplemental indexes offer a different perspective on community-level vulnerability. They combine data on percent low-income, percent linguistically isolated, percent less than high school education, percent unemployed, and low life expectancy with a single environmental indicator.



These percentiles provide perspective on how the selected block group or buffer area compares to the entire state or nation.

Report for 1 mile Ring Centered at 42.265595,-83.129806

EJScreen Environmental and Socioeconomic Indicators Data

SELECTED VARIABLES	VALUE	STATE AVERAGE	PERCENTILE IN STATE	USA AVERAGE	PERCENTILE IN USA	
POLLUTION AND SOURCES						
Particulate Matter (µg/m ³)	10.5	8.51	96	8.08	97	
Ozone (ppb)	61.9	60	64	61.6	56	
Diesel Particulate Matter (µg/m ³)	0.29	0.183	85	0.261	66	
Air Toxics Cancer Risk* (lifetime risk per million)	32	19	98	25	52	
Air Toxics Respiratory HI*	0.3	0.2	88	0.31	31	
Toxic Releases to Air	16,000	2,500	98	4,600	95	
Traffic Proximity (daily traffic count/distance to road)	58	120	47	210	43	
Lead Paint (% Pre-1960 Housing)	0.78	0.38	85	0.3	90	
Superfund Proximity (site count/km distance)	0.083	0.15	62	0.13	60	
RMP Facility Proximity (facility count/km distance)	3.8	0.31	99	0.43	99	
Hazardous Waste Proximity (facility count/km distance)	2.1	1.1	83	1.9	74	
Underground Storage Tanks (count/km ²)	13	8	78	3.9	92	
Wastewater Discharge (toxicity-weighted concentration/m distance)		0.13	87	22	72	
SOCIOECONOMIC INDICATORS					-	
Demographic Index	67%	28%	91	35%	88	
Supplemental Demographic Index	27%	14%	94	14%	92	
People of Color	66%	26%	87	39%	76	
Low Income	69%	31%	93	31%	93	
Unemployment Rate	18%	7%	92	6%	94	
Limited English Speaking Households	1%	2%	78	5%	61	
Less Than High School Education	23%	9%	93	12%	85	
Under Age 5	5%	5%	57	6%	55	
Over Age 64	11%	18%	27	17%	31	
Low Life Expectancy	27%	20%	94	20%	96	

*Diesel particulate matter, air toxics cancer risk, and air toxics respiratory hazard index are from the EPA's 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.

Sites reporting to EPA within defined area:

Superfund	0
Hazardous Waste, Treatment, Storage, and Disposal Facilities	0
Water Dischargers	14
Air Pollution	7
Brownfields	10
Toxic Release Inventory	8

Other community features within defined area:

Schools
Hospitals 0
Places of Worship

Other environmental data:

Air Non-attainment	Yes
Impaired Waters	Yes

Selected location contains American Indian Reservation Lands*	No
Selected location contains a "Justice40 (CEJST)" disadvantaged community	Yes
Selected location contains an EPA IRA disadvantaged community	Yes

Report for 1 mile Ring Centered at 42.265595,-83.129806

EJScreen Environmental and Socioeconomic Indicators Data

HEALTH INDICATORS							
INDICATOR VALUE STATE AVERAGE STATE PERCENTILE US AVERAGE US PERCENTILE							
Low Life Expectancy	27%	20%	94	20%	96		
Heart Disease	8.5	6.6	88	6.1	89		
Asthma	15.5	11.6	94	10	99		
Cancer	5.4	6.6	19	6.1	33		
Persons with Disabilities	23.1%	14.6%	91	13.4%	92		

CLIMATE INDICATORS									
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE				
Flood Risk	57%	7%	99	12%	96				
Wildfire Risk	0%	0%	0	14%	0				

CRITICAL SERVICE GAPS								
INDICATOR	VALUE	STATE AVERAGE	STATE PERCENTILE	US AVERAGE	US PERCENTILE			
Broadband Internet	34%	14%	94	14%	92			
Lack of Health Insurance	9%	5%	85	9%	62			
Housing Burden	Yes	N/A	N/A	N/A	N/A			
Transportation Access	Yes	N/A	N/A	N/A	N/A			
Food Desert	Yes	N/A	N/A	N/A	N/A			

Report for 1 mile Ring Centered at 42.265595,-83.129806