

CITY PLAN COMMISSION STAFF REPORT

City of Kansas City, Missouri City Planning & Development Department <u>www.kcmo.gov/cpc</u>

January 4, 2022

Project Name 47 Madison

Docket 2

Request

CD-CPC-2021-00203 Development Plan - Major Amendment

Applicant

Ryan McNellis Polsinelli 900 W 48th St Kansas City, MO 64112

Owner

KDM 4600 Spe LLC 4622 Pennsylvania Ave Kansas City, MO 64112

AreaAlZoningB2Council District6tCountyJc	51 Roanoke Pkwy oout 1.467 acres 4-5 h ackson County CMO 110
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Surrounding Land Uses

North: Commercial uses, zoned B4-5 South: Residential uses, zoned R-0.5 East: Commercial uses, zoned B4-5-5 West: Commercial uses, zoned B1-1

Major Street Plan

Roanoke Pkwy (from W 43rd St to W 47th St) is identified as an established boulevard on the City's Major Street Plan. Madison Ave (from Westport Rd and W 47th) St is identified as a Thoroughfare on the City's Major Street Plan.

Land Use Plan

The Midtown/Plaza Area Plan recommends Office/Residential for this location.

APPROVAL PROCESS



PROJECT TIMELINE

The application for the subject request was filed on 10/29/2021. No scheduling deviations from 2022 Cycle A have occurred.

NEIGHBORHOOD AND CIVIC ORGANIZATIONS NOTIFIED

The West Plaza Neighborhood Association is tied to the subject site.

REQUIRED PUBLIC ENGAGEMENT

Public engagement as required by 88-505-12 does apply to this request. Applicant hosted a meeting on December 15th, 2021. Summary of the meeting is attached to the staff report, see Exhibit A.

EXISTING CONDITIONS

The subject site is vacant, northwest of the Country Club Plaza.

SUMMARY OF REQUEST

The applicant is seeking approval of a major amendment to an approved Development Plan to allow for the development of a 16-story residential building.

CONTROLLING + RELATED CASES

Ordinance No. 170405

Approving a major amendment to a development plan to add two stories to a multi-unit residential development in District B4-5 on about 1.5 acres generally located at 4600 Madison Ave.

PROFESSIONAL STAFF RECOMMENDATION

Docket 2 Recommendation

Approval Subject to Corrections and Conditions

PLAN REVIEW

Major amendments to approved development plans must be reviewed and approved in accordance with the development plan review procedures within the Zoning and Development Code. Major amendments to development plans include one or more changes listed in 88-516-06-A. The subject major amendment is triggered by an increase in total floor area by more than 10% or 5,000 sq ft, whichever is less.

47 Madison consists of 238 units with onsite amenities, including a dog park, putting green, and rooftop lounge areas. Parking is being provided by a garage sited within the structure. The Midtown/Plaza Area Plan recommends building heights of 45' to 90'. The proposed development does not meet the recommendations outlined in the Midtown/Plaza Area Plan, however, meets height requirements identified in the Zoning and Development Code. "The Bowl Concept describes the conscious transition of building heights from the low-rise buildings of the Country Club Plaza to buildings of increasing height as they are placed on the surrounding hills. Over recent decades, this transition in building heights has been reinforced by commercial, office, hotel, and high-rise residential development." As seen in plan sheets A5-12 and A5-13, the proposed project respects the height transition intent of the Area Plan. A 15-story building was also previously approved.

PLAN ANALYSIS

Use-Specific (88-300) and Development Standards (88-400)

*indicates adjustment/variance

Standards	Applicability	Meets	More Information
Boulevard and Parkway Standards (88-323)	Yes	Yes	See Site Plan.
Parkland Dedication (88-408)	Yes	-	See CCR Report.
Parking and Loading	Yes	Yes	See Site Plan.
Standards (88-420)			
Landscape and Screening Standards	Yes	Yes	See Site Plan.
(88-425)			
Outdoor Lighting Standards (88-430)*	Yes	Variance Required	
Sign Standards (88-445)	Yes	-	See CCR Report.
Pedestrian (88-450)	Yes	Yes	See Site Plan.

PROFESSIONAL STAFF RECOMMENDATION

City staff recommends **Approval Subject to Corrections and Conditions** as stated in the corrections, conditions, and recommendations report.

Corrections must be resolved prior to City Council ordinance request.

Respectfully Submitted,

Ahnna Nanoski, AICP Lead Planner

Plan Conditions, Corrections, & Recommendations Report



Recommended to City Plan Commission Recommended by Staff

Report Date: December 28, 2021 Case Number: CD-CPC-2021-00203 Project: 47 Madison

Plan Corrections

Correction(s) by Development Management of the City Planning and Development Department. Contact Ahnna Nanoski at / Ahnna.Nanoski@kcmo.org with questions.

1. According to 88-430-05-C of the Zoning and Development Code, spillover light may not exceed 0.186 foot-candle onto R-zoned property or 1.0 foot-candle onto public rights-of-way measured at grade along the property line.

The photometric plan should also show spillover light effects on the adjacent properties and public rights-of-way.

(12/20/2021) If the above can't be met then a variance from the Board of Zoning Adjustment must be granted. Board of Zoning Adjustment review must occur prior to City Council ordinance request. Variance Request (12/20/2021)

Correction(s) by Parks Department of the Parks & Recreation. Contact Justin Peterson at 816-513-7599 / Justin.Peterson@kcmo.org with questions.

2. Please provide details on how parkland dedication standards of 88-408 are to be satisfied. If private open space is proposed, please note they will need to be platted into a private open space tract as part of the final plat.

12/23/21; Interior amenities shall not be credited towards parkland dedication. "East Landscaping" shall not be credited towards parkland dedication. (12/20/2021)

Correction(s) by Public Works - Plan Review of the Public Works Department. Contact Jeffrey Bryan at 816-513-9865 / Jeffrey.Bryan@kcmo.org with questions.

3. The synchro files show the driveways as being two different roadways. Revise this to show the interaction of the two with the parking system (similar to the photo I had sent). (12/22/2021)

Correction(s) by Public Works - Transportation of the Public Works Department. Contact Jeffrey Bryan at 816-513-9865 / Jeffrey.Bryan@kcmo.org with questions.

4. The synchro files show the driveways as being two different roadways. Revise this to show the interaction of the two with the parking system (similar to the photo I had sent). (12/22/2021)

Correction(s) by Water Services - Stormwater of the Water Services Department. Contact Amy Bunnell at / amy.bunnell@kcmo.org with questions.

- Relocate sewers from under proposed building(s). City GIS data suggests sanitary sewer extends to northwest and through Lot 1 from the manhole labeled Top Sewer MH = 874.54 to adjacent property to the north. Design engineer needs to determine whether the line is serving north property and make accommodations to maintain service as necessary. (12/20/2021)
- 6. Show location of stormwater management facilities. Storm letter is not approved through this process; however, please note that post-development peak discharge cannot increase above pre-development peak. (12/20/2021)

Condition(s) by City Planning and Development Department. Contact Ahnna Nanoski at / Ahnna.Nanoski@kcmo.org with questions.

- 7. A signage plan has not been provided. All proposed signage shall comply with 88-445 and are subject to sign permits Electronic, digital, or motorized signate shall not be permitted. (12/01/2021)
- 8. The developer shall submit an affidavit, completed by a landscape architect licensed in the State of Missouri, verifying that all landscaping required of the approved plan has been installed in accordance with the plan and is healthy prior to Certificate of Occupancy. (12/01/2021)
- 9. Conditions identified in Ordinance No. 170405 remain applicable to the subject site/project. (12/03/2021)

Condition(s) by City Planning and Development Department. Contact Kambiz Zoraghchi at (816) 513-1582 / Kambiz.Zoraghchi@kcmo.org with questions.

10. The Buildings shall comply with all requirements of wall rating and opening protection per 602 and 705.8 of International Building Code 2018 edition with respect to property lines and lot lines. (12/08/2021)

Condition(s) by City Planning and Development Department. Contact Stacey Lowe at 816-513-2552 / stacey.lowe@kcmo.org with questions.

- The developer shall submit verification of vertical and horizontal sight distance for the drive connection to public right-of-way to the Land Development Division and make improvements to ensure local jurisdiction and/or minimum AASHTO adequate sight distance standards are met, prior to issuance of any certificate of occupancy. (12/03/2021)
- After the City Plan Commission enters its disposition for the development plan, the developer shall not enter into any
 agreement that would encumber or otherwise have any impact on the proposed right-of-way dedications for the planned
 project without the prior written consent of the Land Development Division. (12/03/2021)
- 13. The developer shall cause the area to be platted and processed in accordance with Chapter 88, Code of Ordinances of the City of Kansas City, Missouri, as amended, commonly known as the Development Regulations. (12/03/2021)
- 14. The developer provide acceptable easement and secure permits to relocated sanitary sewers out from under proposed buildings and structures, etc., while continuing to ensure individual service is provided to all proposed lots as required by Land Development Division prior to recording the plat or issuance of a building permit, whichever occurs first. (12/03/2021)
- 15. The owner/developer must submit plans for grading, siltation, and erosion control to Land Development Division for review and acceptance, and secure a Site Disturbance permit for any proposed disturbance area equal to one acre or more prior to beginning any construction activities. (12/03/2021)
- 16. The developer shall submit a letter to the Land Development Division from a Licensed Civil Engineer, Licensed Architect, or Licensed Landscape Architect, who is registered in the State of Missouri, that identifies sidewalks, curbs, and gutters in disrepair as defined by Public Works Department's "OUT OF REPAIR CRITERIA FOR SIDEWALK, DRIVEWAY AND CURB revised 11/5/2013" and based on compliance with Chapters 56 and 64 of the Code of Ordinances for the sidewalks, curbs, and gutters where said letter shall identify the quantity and location of sidewalks, curbs, gutters that need to be constructed, repaired, or reconstructed to remedy deficiencies and/or to remove existing approaches no longer needed by this project. The developer shall secure permits to repair or reconstruct the identified sidewalks, curbs, and gutters as necessary along all development street frontages as required by the Land Development Division and prior to issuance of any certificate of occupancy permits including temporary certificate occupancy permits. (12/03/2021)
- 17. The developer must grant a BMP and/or Surface Drainage Easement to the City as required by the Land Development Division, prior to recording the plat or issuance of any building permits. (12/03/2021)
- The developer must pay impact fees as required by Chapter 39 of the City's Code of ordinances as required by the Land Development Division. (12/03/2021)
- 19. The developer shall submit an analysis to verify adequate capacity of the existing sewer system as required by the Land Development Division prior to issuance of a building permit to connect private system to the public sewer main and depending on adequacy of the receiving system, make other improvements may be required. (12/03/2021)
- 20. The developer must submit covenants, conditions and restrictions to the Land Development Division for review by the Law Department for approval for the maintenance of private open space and enter into a covenant agreement for the maintenance of any stormwater detention area tracts, prior to recording the plat. (12/03/2021)

Condition(s) by City Planning and Development Department. Contact Stacey Lowe at 816-513-2552 / stacey.lowe@kcmo.org with questions.

- 21. The developer must subordinate to the City all private interest in the area of any right-of-way dedication, in accordance with Chapter 88 and as required by the Land Development Division, prior to issuance of any construction permits within said right-of-way, and that the owner/developer shall be responsible for all costs associated with subordination activities now and in the future. (12/03/2021)
- 22. The developer must dedicate additional right of way for Madison Avenue as required by the adopted Major Street Plan so as to provide a minimum of 30 feet of right of way as measured from the centerline, along those areas being platted, or seek approval recommendations from the Transportation and Development Committee for any variances requested to the Major Street Plan prior to City Plan Commission approval. (12/03/2021)
- 23. The developer must integrate into the existing street light system any relocated existing street lights within the street right-of-way impacted by the new drive or approach entrances as required by the Land Development Division, and the relocated lights must comply with all adopted lighting standards. (12/03/2021)
- 24. The developer shall submit a Storm Drainage analysis from a Missouri-licensed civil engineer to the Land Development Division evaluating proposed improvements and impact to drainage conditions. Since this project is within a "Combined Sewer Overflow" (CSO) district, the project shall be designed to retain rainfall of 1.5 inch depth over the entire site to simulate natural runoff conditions and reduce small storm discharge to the combined sewer system. Manage the 10-year storm and 100-year storm per currently adopted APWA standards. The analysis shall be submitted, and the developer shall secure permits to construct any improvements required by the Land Development Division prior to recording the plat. (12/03/2021)
- 25. The developer must obtain the executed and recorded city approved grading, temporary construction, drainage/sewer, or any other necessary easements from the abutting property owner(s) that may be required prior to submitting any public improvements crossing properties not controlled by the developer and include said document(s) within the public improvement applications submitted for permitting (12/03/2021)

Condition(s) by Fire Department. Contact Michael Schroeder at 816-513-4611 / michael.schroeder@kcmo.org with questions.

- 26. Hydrant Fire hydrant distribution shall follow IFC-2018 Table C102.1 Fire hydrants shall be installed and operable prior to the arrival of any combustible building materials onto the site. (IFC-2018 § 501.4 and 3312.1; NFPA -2013 § 8.7.2) (12/01/2021)
- 27. Water Flow The expectation is the project will meet the fire flow requirements as set forth in Appendix B of the International Fire Code 2018. (IFC-2018 § 507.1) (12/01/2021)
- 28. Fire Department Connection Buildings equipped with a fire standpipe system shall have an operable fire hydrant within 100 feet of the Fire Department Connection (FDC). (IFC2018 § 507.5.1.1) (12/01/2021)
- 29. Fire Department Connection The building's FDC shall be immediately recognizable from the street or nearest point of Fire Department access (IFC-2018 § 912.2.1). (12/01/2021)

Condition(s) by Parks & Recreation. Contact Justin Peterson at 816-513-7599 / Justin.Peterson@kcmo.org with questions.

- 30. The developer shall submit a letter to the Parks and Recreation Department from a Licensed Civil Engineer, Licensed Architect, or Licensed Landscape Architect, who is registered in the State of Missouri, stating the condition of the sidewalks, curbs, and gutters along boulevard/parkway, which is a parks and recreation jurisdictional street. The letter shall identify state of repair as defined in Chapters 56 and 64 of the Code of Ordinances for the sidewalks, curbs, and gutters. It shall identify the quantity and location of sidewalks, curbs, gutters that need to be constructed, repaired, or reconstructed. The developer shall secure permits to repair or reconstruct the identified sidewalks, curbs, and gutters as necessary along all development street frontages, as required by the Parks and Recreation Department, prior to recording the plat/issuance of any certificate of occupancy permits including temporary certificate occupancy permits (12/01/2021)
- 31. The developer shall submit a streetscape plan with street tree planting plan per 88-425-03 for approval and permitting by the Parks & Recreation Department's Forestry Division prior to beginning work in the public right-of-way (12/01/2021)
- 32. The developer shall submit plans to Parks & Recreation Department and obtain permits prior to beginning construction of streetscape improvements (including but not limited to sidewalks, curbs, gutters, streetscape elements, pedestrian and street lighting) on the Parks jurisdictional streets and construct improvements, ADA compliant ramps at all required locations where new private drives are being added, or where existing sidewalks are modified or repaired. Such improvements shall be installed per Parks & Recreation Department Standards (12/01/2021)

Condition(s) by Parks & Recreation. Contact Justin Peterson at 816-513-7599 / Justin.Peterson@kcmo.org with questions.

- 33. The developer shall submit a streetscape plan with street tree planting plan per 88-425-03 for approval and permitting by the Parks & Recreation Department's Forestry Division prior to beginning work in the public right-of-way (12/01/2021)
- 34. The developer is responsible for dedication of parkland, private open space in lieu of parkland, or payment of cash-in-lieu of either form of dedication, or any combination thereof in accordance with 88-408. Should the developer choose to pay cash-in-lieu of dedicating all or a portion of the required area, the amount due shall be based upon the (2021) acquisition rate of (\$48,801.37) per acre. This requirement shall be satisfied prior to certificate of occupancy. (12/01/2021)
- 35. The developer shall comply with the Parkway & Boulevard Standards as outlined in 88-323 of the Zoning and Development Code. (12/23/2021)
- 36. The developer shall revise fencing as proposed along Roanoke Parkway or seek approval of a variance from the Board of Zoning Adjustment.

Per 88-323-02-D; Any fencing that is visbile from the boulevard or parkway shall be 80% transparent and constructed of high quality, permanent materials. Maximum height shall be 6 feet in the rear and 4 feet in the side. No fencing shall extend beyond the front building line. Fencing must be of steel, iron, concret, stucco, stone brick or other acceptable material. Wood picket or stockade fencing is not permitted. Chain link fencing is not permitted, except for the enclosure of a public playfied or a school playfield. (12/23/2021)

Condition(s) by Water Services Department. Contact Heather Massey at / heather.massey@kcmo.org with questions.

37. The developer shall ensure that water and fire service lines should meet current Water Services Department Rules and Regulations.

https://www.kcwater.us/wp-content/uploads/2019/04/2018-Rules-and-Regulations-for-Water-Service-Lines.pdf These regulations are established to provide for an orderly growth of the City's water system and to assure equitable treatment to all citizens. All those who have transactions with KC Water are urged to observe these regulations and to cooperate in their enforcement. Section 78.35 of the Code of General Ordinances, Kansas City, Missouri, grants the Director the authority to make and enforce these regulations.

Water service lines shall only be installed in accordance with these regulations, and only by methods, and at times and under the circumstances described in these Regulations. Installations or arrangements other than those described in these regulations are not allowed. (12/01/2021)

Condition(s) by Water Services Department. Contact Jerald Windsor at 816-513-2904 / Jerald.Windsor@kcmo.org with questions.

- 38. The Madison Avenue Water Main is slated for replacement from 46th to 48th Streets by KC Water. This provides an opportunity for the developer to cost-share in the upsizing of this main to support the Water supply required for this project. (11/30/2021)
- 39. An engineer will need to perform a water flow and pressure analysis in the area of the development. This analysis will need to confirm the adequacy of the water distribution system for the new fire and domestic demands. If the existing system is inadequate the developer will be required to make all improvement necessary to deliver adequate flows and pressures. (11/30/2021)
- 40. Please provide a utility plan showing the size of the existing & proposed easements, water mains, domestic and fire service lines, kills and meter locations. (12/22/2021)

Plan Recommendations

Recommendation(s) by City Planning and Development Department. Contact Joseph Rexwinkle at 816-513-8824 / Joseph.Rexwinkle@kcmo.org with questions.

41. This project will follow the 2022 CPC Schedule available at https://www.kcmo.gov/home/showpublisheddocument/7257/637707505073630000 (11/02/2021)

THE MADISON

A MULTI-FAMILY DEVELOPMENT LOCATED AT THE WEST PLAZA AREA OF KANSAS CITY, MO

AMENDED CITY PLANNING COMMISION SUBMITTAL, OCTOBER 29, 2021



CHARACTER RENDERING

PROJECT TEAM



REAL ESTATE SERVICES, LLC

4600 PLAZA, LLC C/O BLOCK REAL ESTATE SERVICES 700 WEST 47TH STREET; SUITE 200 KANSAS CITY, MISSOURI 64112 PROJECT CONTACTS:

KENNETH G. BLOCK, SIOR, CCIM P. (816) 932-5551 BRAD S. SIMMA, CCIM P. (816) 932-5551

LEGAL:



POLSINELLI 900 W. 48TH PLACE, SUITE 900 KANSAS CITY, MO 64112 P. (816) 753-1000 PROJECT CONTACT:

ROXSEN KOCH E. RKOCH@POLSINELLI.COM CIVIL:



MCCLURE 11031 STRANG LINE RD LENEXA, KS 66215 P. (913) 888-7800

PROJECT CONTACTS: TOM SMITH

E. TOMSMITH@MCCLUREVISION.COM GREG WATSON E. GWATSON@MCCLUREVISION.COM E. GREG.WATSON@SKW-INC.CO

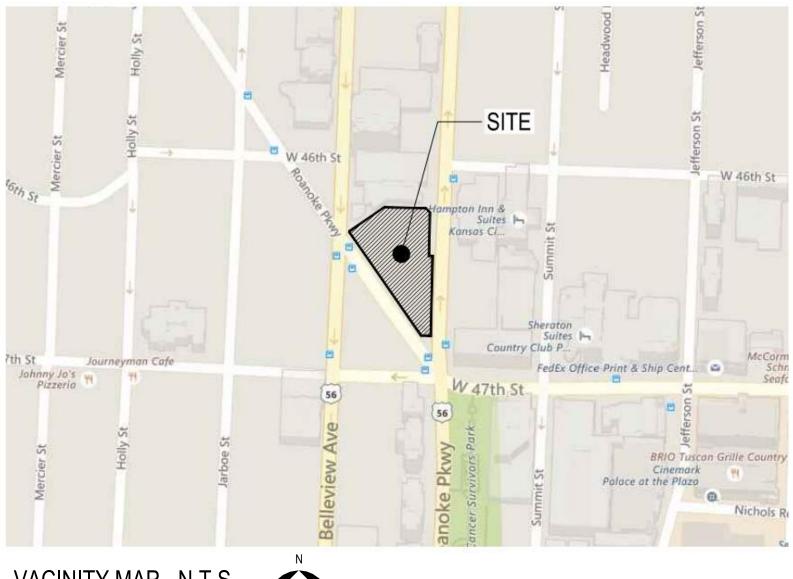
ARCHITECT OF **RECORD**:



HOK 300 WEST 22ND STREET KANSAS CITY, MO 64108 P. (816) 472-2030 PROJECT CONTACT:

TOM SMITH E. TOM.SMITH@SKW-INC.COM GREG WATSON

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VACINITY MAP - N.T.S.

ASSOCIATE **ARCHITECT:**



NEARING, STAATS, PRELOGAR, & JONES AIA CHARTERED ARCHITECTS 3515 W. 75TH ST, SUITE 201 PRAIRIE VILLAGE, KS 66208 P. (913) 831-1415 F. (913) 831-1563

PROJECT CONTACT: TIM HOMBURG

P. (913) 831-1415 E. THOMBURG@NSPJARCH.COM

LANDSCAPE:



NEARING, STAATS, PRELOGAR, & JONES AIA CHARTERED ARCHITECTS 3515 W. 75TH ST, SUITE 201 PRAIRIE VILLAGE, KS 66208

F. (913) 831-1563 PROJECT CONTACT: KATIE MARTINOVIC P. (913) 831-1415 E. KMARTINOVIC@NSPJARCH.COM

P. (913) 831-1415

STRUCTURAL



BOB D. CAMPBELL AND COMPANY 433 BELLEVIEW AVE. KANSAS CITY, MO 64111 P. (816) 531-4144 PROJECT CONTACT:

BRANDON FORD P. (816) 778-7155 E. BFORD@BDC-ENGRS.COM

MEP:



LANKFORD FENDLER + ASSOCIATES 1730 WALNUT KANSAS CITY, MO 64108 P. (816) 221-1411 PROJECT CONTACT:

JON SCANTLIN P. (913) 568-4222 E. JON@LANKFORDFENDLER.COM

INTERIORS:

Gensler

GENSLER AND ASSOCIATES 1200 6TH AVE. SEATTLE, WA 98101 P. (206) 654-2100 PROJECT CONTACT:

REBECCA LUONG P. (206) 654-2041 E. REBECCA_LUONG@GENSLER.COM E. KMARTINOVIC@NSPJARCH.COM

SHEET LIST	
DRAWING DESCRIPTIC)N

COVER SHEET
APP CHECKLIST
PRELIMINARY PLAT
OVERALL DEVELOPMENT & SITE PLAN
ZONING & SITE CONDITIONS
LANDSCAPE PLAN
LEVEL 01 /P1 PARKING
LEVEL 01 /P1 PARKING
LEVEL 02 / P3 PARKING
LEVEL 03 / P4 PARKING
LEVEL 04 / P5 PARKING
LEVEL 05
POOL COURTYARD
LEVEL 06
LEVEL 07
LEVEL 08-09
LEVEL 10-12A
LEVEL 13-15
ROOF LEVEL
NORTH ELEVATION
EAST ELEVATION
SOUTH ELEVATION
WEST ELEVATION

PHOTOMETRIC PLAN



CODES:



FSC INC. 9225 INDIAN CREEK PKWY. SUITE 300 414 E. 12TH ST. 15TH FLOOR, CITY OVERLAND PARK, KS 66210 P. (816) 531-4144 PROJECT CONTACT:

KATIE MARTINOVIC P. (913) 722-3473

GOVERNMNET



CITY PLANNING AND DEVELOPMENT HALL PHONE: (816) 513-150 PROJECT CONTACT:

PLANNING@KCMO.ORG KANSAS CITY, MO 64106



REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



In Association with

Hellmuth, Obata & Kassabaum, Inc. 300 West 22nd Street Kansas City, MO 64108 USA

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NSPJ Architects PA Associate Architect / Landscape Architect 3515 W. 75th ST, Suite 201 Prairie Village, KS 66208 p. (913) 831-1415 f. (913) 831-1563 Gensler & Associates Interior Design 1200 6th Ave Seattle, WA 98101 p. (206) 654.2100 Bob D. Campbell & Company Structural Engineer 4338 Belleview Ave, Kansas City, MO 6411 p. (816) 531-4144 McClure Civil Engineer 11031 Strang Line Rd Lenexa, KS 66215 p. (913) 888-7800 FSC, Inc. Code Consultant 9225 Indian Creek Pkwy, Suite 300 Overland Park, KS 66210 p. (913) 722.3473 United Spinal Association

ADA Consultant 120-34 Queens Blvd. Ste. 320 Kew Gardens, New York 11415 p. (718) 803.3782

Studio 08 Consultants 5600 W 95th St. Ste. 216 Overland Park, KS 66210 p. (816) 389.8624

Lightworks Specialty Lighting 361 B Main Weston, MO 64098 p. (816) 640.9948 Walker Parking Parking Consultant 505 Davis Road Elgin, IL 60123

p. (847) 710.3223 Lerch Bates Elevator Consultant 9780 S. Meridian Blvd, Ste. 450 Englewood, CO 80112 p. (303) 723.7978

Cloward H20 Aquatic Design 2696 N University Ave, Ste. 290 Provo, UT 84604 p. (801) 375.1223

Heitman & Associates Building Envelope Consultant 14500 S Outer Rd, Ste. 110 Chesterfield, MO 63017 p. (314) 439.1944

Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218 p. (913) 400.3694

No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
	CITY PLANNING RESUBMITTAL	12.01.2021
	CITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date: October 1, 2021

Project No: 17.70020.00

Sheet Title

Sheet Number

COVER SHEET

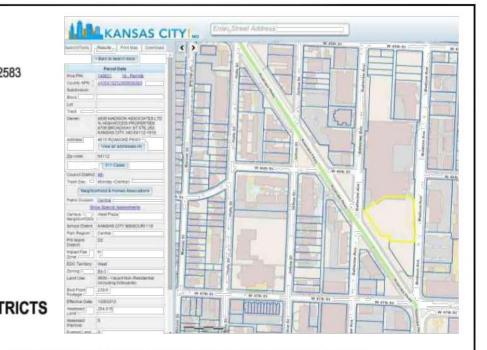
Original drawing is 24X36. Do not scale contents of this drawing



88-517-06 Application Filing Checklis	st							
FROM THE CITY OF KANSAS CITY, MO. ZONING AND DEVELOPM	ENT CODE							FROM THE CIT
http://online.encodeplus.com/regs/kansascity-mo/doc-viewer.aspx	#secid-3441							
>500 Series Review and Approval Procedures > 88-517 Development Plan Review and App	roval > 88-517-06 /	Application Filing						
REQUIREMENT	PROVIDED	NOTES/ COMMENTS	PAGE					
1 Name of the development.	Yes	See Titleblock	N/A				PROJECT SHALL CON	
2 Name, address, and phone number of person or firm that prepared the plan.	Yes	See Titleblock	N/A				150 FEET OF PARKS ON USES ADJAC	
3 Date plan prepared and any revision dates.	Yes	See Titleblock	N/A					
4 Graphic and written scale of one inch equals 10-60 or 100 feet. A scale of one inch equals 200 feet may be used for applications consisting of over 200 acres.	Yes	Where Applicable	N/A					
5 A legal description of the property.	Yes	Preliminary Plat	A-00.1					
6 North arrow.	Yes	Where Applicable	N/A	CURRENT ZONING: B4-5 [B4-5 Heav	y Business	48.0.	- Shared Address	n [°]
7 A location map identifying boundaries of property in relation to major streets.	Yes	Preliminary Plat	A-00.1	/Commercial (dash 5)]		Testificity Restler, Portial C		
8 Existing property lines identifying point of beginning and distances and bearings of property lines, consistent with the legal description.	Yes	Preliminary Plat	A-00.1	http://online.encodeplus.com/regs/kansascity-mo/d	oc-viewer.aspx#secid-2583	Other to mean train Provid from would find Market Status Status Status Status Status Status Status		
9 Identification and written dimensions of the width from centerline and total width of existing perimeter and interior streets, other rights-of-way, and all existing easements.	Yes	Preliminary Plat	A-00.1			Cett Cett Cetter		
10 Identification and written dimensions of the total width of pavement of existing streets.	Yes	Preliminary Plat	A-00.1			N. HIGHNOTOCH THE R. AND		
11 Existing medians within the public right-of-way shall be shown including turn lanes and all other pertinent information within the right-of-way to provide a complete understanding of existing conditions.	Yes		A1-01			An rem M12		
12 Identification and written dimensions of additional street right-of-way to be dedicated and width of any proposed interior streets and easements (reference Major Street Plan).	N/A	Proposed interior drives are private	N/A			Terginational Honos Association		Aller Aller
Location and written dimensions of the widths of existing or proposed private vehicular access into the property 13 from perimeter streets and location of existing or approved accesses on properties adjacent or opposite the property, with off-set dimension from the centerlines of such streets and private access.	Yes		A4-12			Fain Report Contract Per Noni D0 Dentition D0 Variant/Main Minimum 20min Fain		
14 Show existing conditions of surrounding property within 300 feet.	Yes		A1-02			Beat Print 2008		
15 Name of adjacent platted subdivision and identification of lot number and tracts.16 Location, identification, and dimension of proposed lots and tracts.	Yes	Preliminary Plat Preliminary Plat		88-120 OFFICE, BUSINESS, AND CO		Server 2011		
16 Location, identification, and dimension of proposed lots and tracts.	Yes	See plans for proposed		88-120-04-B. BASIC STANDARDS		the lot and building standards of Tak	le 120 2 except as otherwise	
 Location of proposed buildings and structures and existing buildings and structures to remain, with written dimensions of setback from proposed street right-of-way and adjacent property lines, dimensions of building width and length, number of floors, gross floor area per floor, and total building area. Residential buildings shall identify, in addition, the number of dwelling units per floor and the total number of dwelling units. 	Yes	buildings and structures. See tabulations for number of floors, gross floor area per floor, total building area,	A1-01 including A4-12 to A4-21	All residential and nonresidential development in C expressly provided. General exceptions to lot and l REQUIREMENTS FROM TABLE 120-	building standards and rules for m	easuring compliance can be found in	88-820.	
		dwelling units per floor and total number of dwelling units			-5	PROVIDED	NOTES/ COMMENTS	PAGE
18 Identification of proposed or existing use or uses within each building, building entrances and exits, docks or other service entrances, outdoor storage and sales areas, and other paved areas.	Yes		A1-03, A4-12 & A4-12a	Lot Size » Min. lot area (sq. ft.)	None	N/A	N/A	N/A
Location of proposed or existing parking spaces, aisles, and drives with written setback dimensions from proposed 19 street rights-of-way and adjacent property lines; typical width and length of parking spaces; number of parking	Yes		A4-12 to A4-15	 » Min. lot area per unit (sq. ft.) » in single purpose residential building 	200		64,393 SF / 238 UNITS	
 spaces per row; and width of parking aisles. (Parking & Loading – 88-420) Location and identification of boundaries and phase numbers of the development if proposed to be platted or developed in phases, showing the buildings, structures, access, and parking areas in each phase. 	N/A	The proposed project is a single phase project	N/A			YES	270.6 SF PER UNIT	A1-02
		See Preliminary Plat for	A-00.1	» Min. lot width (ft.)	None	N/A	N/A	N/A
Existing and proposed topography, with contours at an interval of not less than 5 feet and with approximate first floor elevations of buildings and top of wall and bottom of wall for all retaining walls proposed.	Yes	existing topography and see proposed topography and spot elevations on A1-01	and A1-01	Floor Area Ratio » Maximum	6.0	YES	5.5	A1-02
Location and identification of any proposed and any existing site features to be retained, including detention		oper distributions on Arthon		Min. Front Setback 14				
22 areas, retaining walls, and other pertinent site features. Retaining walls should include materials and top and bottom of wall heights.	Yes		A4-12	» Abutting residential district » Not abutting R district	1 None	N/A	Not abutting R district	N/A
23 A plan for landscaping & screening (88-425); outdoor lighting including fixture design. (88-430)	Yes		A1-03 and L01.01	Min. Rear Setback ⁴				
Identification of all public and private existing and proposed sidewalks, trails and/or bicycle facilities. (see Trails	-			» Abutting residential district				
24 KC and Bike KC plans)	N/A		N/A	» % of lot depth	25%			
			A5-10	» Maximum required (ft.)	30	N/A	Not abutting R district	N/A
25 Building elevations, in color, with materials and architectural detailing.	Yes		to A5-13	» Not abutting R district	None			
26 Signage plan. (88-445)	DEFERRED	RE: NOTES ON A5-12 & F		Side Setback				
27 a. Existing zoning of property and any proposed zoning, including type of any planned district requested.	Yes		A1-01	» Abutting residential district	2	N/A	Not abutting R district	N/A
b. Total land area in square feet or acre.	Yes		A1-02	» Not abutting R district	None		-	
 c. Land area or acres for existing and proposed street right of way. 	Yes		A1-02	Maximum Height [®] - Measured from top of grade to	UCC			1 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -
 d. Net land area or acres. e. Proposed use or uses of each building and structure. 	Yes		A1-02 A1-02	» Northeast Corner » Northwest Corner	None None	YES YES	195.5' / 15 STORIES 96' / 5-7 STORIES	A5-10 / A5-11 A5-10 / A5-13
 f. Height above grade of buildings and structures and number of floors of each building. 	Yes		A1-02 A1-02	» Southeast Corner » Southwest Corner	None None	YES YES	223' / 16 STORIES 220' / 16 STORIES	A5-11 / A5-12 A5-12 / A5-13
Gross floor area per floor and total for each building. Residential buildings shall also include type of dwelling					Hono.			
g. units, number of dwelling units per floor, and total number of dwelling units.	Yes		A1-02					
 h. Building coverage and floor area ratio. Excidential development shall in addition identify gross and not density. 	Yes		A1-02					
i. Residential development shall, in addition, identify gross and net density. Ratio of required number of parking spaces for each use and amount of required, proposed parking spaces.	Yes		A1-02					
j. Land area or acres for existing and proposed street right of way.	Yes		A1-02					
 Ratio of required number of short term and long term bicycle parking spaces for each use and amount of required, proposed short term and long term bicycle parking spaces. 	Yes		A1-02					
Applications for amendments to development plans shall include a written description of the changes to the approved development plan, including any changes in use, phases, parking, signage, or site arrangement.	Yes		A1-02					
Market Applications for amendments to development plans shall include a written description of the changes to the approved development plan, including any changes in use, phases, parking, signage, or site arrangement.	Yes		A1-02					
Any other information necessary for a determination as to the suitability of the plan for the site, as requested by the Director of City Planning and Development.								

ZONING CHECKLIST

CITY OF KANSAS CITY, MO. ZONING AND DEVELOPMENT CODE



SECTION 88-110-03-G. SPECIAL STANDARDS ADJACENT TO AND WITHIN RDS, AND PARKWAYS. ADDITIONAL REGULATIONS AND RESTRICTIONS RKS, BOULEVARDS AND PARKWAYS ARE IMPOSED IN TABLE 110-1.

400 SERIES DEVELOPMENT STANDARDS 88-420 PARKING AND LOADING 88-420-06 PARKING RATIOS RESIDENTIAL 1 per o » All other 88-420-09 BICYCLE PARKING Short-Term Bicycle Parking Ratios A) 3 short-term bicycle parking spaces or short-term bicycle spaces equal in number t 10% of the actual number of off-street vehicle parking spaces provided, whichever is g C) After the first 50 short-term bicycle parking spaces are provided, additional short-te parking spaces must be provided at 50% of the otherwise required ratio. Long-Term Bicycle Parking Ratios RESIDENTIAL » Multi-unit building containing more than 12 dwelling units » ¹After the first 50 long-term bicycle parking spaces are provided, additional long-term bicycle parking spaces must be provided at 50% of the otherwise required ratio. 88-420-16 LOADING

dw

Household Living Uses 50+ units

88-425 LANDSCAPING AND SCREENING 88-425-03 STREET TREES

88-425-03-C. TREE PLANTING REQUIREMENTS

NUMBER: At least one street tree is required for each 30 feet of street frontage. LOCATION: Required street trees must be installed within the street right-of-way or w feet of the street right-of-way. If street trees are to be located outside of the right-of-way is authorized to require the establishment of a 15-foot landscape maintenance easem SPACING: Street trees need not be regularly spaced. The director of parks and recre authorized to determine the final location of street trees, based on site factors such as location of utilities and driveways, intersection visibility requirements and other factors SIZE: Street trees installed to satisfy the requirements of this section must comply wi

minimum size requirements of 88-425-10-B.2 except that on lots abutting parkways a boulevards, street trees must have a minimum caliper of 2.0 inches. 88-425-04 GENERAL LANDSCAPING REQUIREMENTS

The setback and open space areas required by this zoning and development code m landscaped, except where they are:

88-425-07 SCREENING OF PARKING GARAGES

Parking floors within multi-story parking garages must be screened or concealed by o

more of the following methods:

88-425-08 SCREENING OF CONTAINERS AND MECHANICAL DUMPSTERS- Trash containers, dumpsters, trash compactors, and recycling bins as with multiplex, multi-unit residential, and nonresidential uses must be screened from on all sides with a solid fence, wall, or gate constructed of cedar, redwood, masonry, similar building material reflecting the overall design of the site, and be appropriately

landscaped. MECHANICAL EQUIPMENT AND UTILITY CABINETS

88-425-12 LANDSCAPE PLANS

Landscape plans must accompany all required development and site plans, site plans special use permit, and final development plans in Districts MPD and UR. All landscap must be sealed and certified by a registered landscape architect licensed in the State Missouri and include information as required by city planning and development depart staff.

88-430-06 EXTERIOR LIGHTING PLAN

An outdoor lighting plan must be submitted as part of any special use or development application. The lighting plan must be reviewed to determine whether the proposed out lighting complies with the standards of this article

88-440 TRAFFIC IMPACT STUDIES

A traffic impact study is required at the time of application for approval of any special use permit, preliminary subdivision plat, or other similar site-specific development plan if:

> 1. the proposed development, or phases of development, or contiguous tracts under the same ownership, would accommodate or could be expected to generate 100 or more added vehicle trips to or from the site during the peak traffic hour (based on the proposed development or the adjacent roads and intersections); or

2. the proposed development, or phases of development, or contiguous tracts under the same ownership, would accommodate or could be expected to generate 1,000 or more added vehicle trips to or from the site during a 24-hour period (based on the proposed development or the adjacent roads and intersections).

88-445-10 SIGNAGE PLAN

88-450 Pedestrian Standards

88-450-03-A. PUBLIC SIDEWALKS

88-450-03-B. ON-SITE PEDESTRIAN CIRCULATION

Where practical or as otherwise approved in conjunction with a development plan or site plan, an on-site pedestrian circulation system must be provided in accordance with the following requirements: 1) Connection to the Street 2) Connection to Neighboring Areas 3) Internal Connections

88-450-03-C. DESIGN

	PROVIDED	NOTES/ COMMENTS	PAGE	
	PROVIDED	NOTES/ COMMENTS	PAGE	
10 ¹ 14	1/20			
r dwelling unit	YES	1.57 SPACES PER UNIT	A1-02	
er to at least s greater. -term bicycle	YES	RE: SHEET A4-12 FOR CALCULATIONS	A4-12	
1 per 3 velling units 1 per 6	YES	RE: SHEET A4-12 FOR CALCULATIONS	A4-12	
velling units	YES			
	YES		A4-12a	
	YES		A1-03	
within 10 way, the city ment.	YES		A1-03	
reation is as the ors.	YES		A1-03	
with the and	YES		A1-03	
must be	YES		A1-03	
one or	YES	PARKING GARAGE IS SCREENED WITH RESIDENTIAL USE & EXTERIOR WALLS WITH STONE VENEER (RE: ELEV'S)	A4-12 to A4-15	
	EQUIPMENT			
associated n public view y, or other y	YES	SCREENED WITHIN PARKING STRUCTURE	A4-12	
	YES			
ins for caping plans te of artment	YES		A1-03	
ent plan outdoor	YES		L01.01	
al use permit,	VEC			

YES

DEFERRED RE: NOTES ON A5-12 & RE: A1-03 YES

Public Sidewalks. Public sidewalks must be designed and constructed in accordance with the department of public works' Standards, Specifications and Design Criteria.



REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



Hellmuth, Obata & Kassabaum, Inc. 300 West 22nd Street Kansas City, MO 64108 USA t +1 816 472 3360 f +1 816 472 2100
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In Association with NSPJ Architects PA Associate Architect / Landscape Architect 3515 W. 75th ST, Suite 201 Prairie Village, KS 66208 p. (913) 831-1415 f. (913) 831-1563
Gensler & Associates Interior Design 1200 6th Ave Seattle, WA 98101 p. (206) 654.2100 Bob D. Campbell & Company Structural Engineer 4338 Belleview Ave,
Kansas City, MO 64111 p. (816) 531-4144 McClure Civil Engineer
11031 Strang Line Rd Lenexa, KS 66215 p. (913) 888-7800 FSC, Inc.
Code Consultant 9225 Indian Creek Pkwy, Suite 300 Overland Park, KS 66210 p. (913) 722.3473 United Spinal Association
ADA Consultant 120-34 Queens Blvd. Ste. 320 Kew Gardens, New York 11415 p. (718) 803.3782
Studio 08 Consultants Door Hardware 5600 W 95th St. Ste. 216 Overland Park, KS 66210 p. (816) 389.8624
Lightworks Specialty Lighting 361 B Main Weston, MO 64098 p. (816) 640.9948
Walker Parking Parking Consultant 505 Davis Road Elgin, IL 60123 p. (847) 710.3223
Lerch Bates Elevator Consultant 9780 S. Meridian Blvd, Ste. 450 Englewood, CO 80112 p. (303) 723.7978
Cloward H20 Aquatic Design 2696 N University Ave, Ste. 290 Provo, UT 84604 p. (801) 375.1223
Heitman & Associates Building Envelope Consultant 14500 S Outer Rd, Ste. 110 Chesterfield, MO 63017 p. (314) 439.1944
Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218 p. (913) 400.3694
No. Description Data

No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
	CITY PLANNING RESUBMITTAL	12.01.2021
	CITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date: October 1, 2021

Project No: 17.70020.00

Sheet Number

Sheet Title APP CHECKLIST

Original drawing is 24X36. Do not scale contents of this drawing.

PRELIMINARY PLAT 4600 PLAZA A REPLAT OF LOTS 2 & 3, PLAZA WEST AND A PORTION OF ROANOKE PARKWAY KANSAS CITY, JACKSON COUNTY, MISSOURI

<u>Description (Proposed Lot 1)</u>:

All of Lots 2 and 3, PLAZA WEST, a subdivision in Kansas City, Jackson County Missouri and that part of vacated Roanoke Parkway, Section 30, Township 49 North, range 33 West, all in Kansas City, Jackson County, Missouri, more particularly described as follows: Commencing at the Northeast corner of Lot 2, said PLAZA WEST; thence S 2° 24' 33" W, along the East line of said Lot 2, a distance of 139.06 feet; thence S 87° 35' 28" E, along said East line, a distance of 12.00 feet; thence S 2° 24' 33" W, along the East line of said Lots 2 and 3, a distance of 255.69 feet, to the Southeast corner of said Lot 3; thence N 87° 24' 31" W, along the South line of said Lot 3, a distance of 30.73 feet, to the Southwest corner of said Lot 3; thence N 33° 40' 34" W, along the west line of said Lots 2 and 3, a distance of 402.36 feet, to the Westerly corner of said Lot 2; thence N 2° 23' 40" E, along the West line of said Lot 2, a distance of 3.28 feet, to the Northwest corner of said Lot 2; thence S 132° 28" E, along said Lot 2, a distance of 3.28 feet, to the Northwest corner of said Lot 2; thence S 13° 28" E, along said North line, a distance of 134.04 feet; thence S 42° 35' 28" E, along said North line, a distance of 18.38 feet, to the point of beginning.

<u>General Notes:</u>

 As of September 22, 2015 we have made no investigation for, or locations of, possible usable subsurface areas of private land or public ways, including, but not limited to, utility vaults of any nature, utility or pedestrian tunnels, under walk area ways, under alley area ways, fuel storage bins or tanks, elevator pits, and all or any combination of the above, except as shown, noted and described hereon.

2. Information as shown for underground utilities has been compiled from the records of various utility companies concerned, and as marked in the field by the Missouri One Call System, 1 (800) 344–7483. When precise locations of underground utilities are needed prior to excavation or connections, the various utility companies concerned are to furnish a crew to point out the locations at the job site.

3. Information shown on this survey was taken from Assured Quality Title Insurance Company as agent for First American Title Insurance Company,

Commitment No. MJ105314, effective date, June 25, 2015. 4. This tract contains 64,393 square feet or 1.478 acres, more or less.

5. No observable evidence of earth moving work, building construction or building additions within recent months or at the time of this survey.

6. The Surveyor is not aware of proposed changes of right-of-way over the surveyed premises. It is customary for the City to not reveal plans for future acquisitions of right-of-way until such time as the property is being redeveloped. The surveyor observed no evidence of recent street or sidewalk construction or repairs.

7. No observable evidence of site used as a solid waste dump, sump or sanitary landfill, as observed from a layman point of view.

8. At the time of this survey there were NO building structures or party walls and NO painted striped areas on the surveyed premises.

9. The Kansas City Missouri online mapping (parcel viewer) indicates the address of Lot 2 as 4615 Roanoke Parkway and Lot 3 as 4651 Roanoke Parkway. 10. Contours shown hereon are at 1 foot intervals and based on U.S.G.S NAVD 88 Datum.

11. The KCMO Water Atlas indicates a 6" Water Main exists in Madison and Belleview Avenues. Also an 8" water main exists in 47th Street. The Missouri One Call did not mark their locations.

12. The KCMO Sewer Atlas indicates a 15" Combination sewer exists in Madison Avenue near the West eight—of—way line thereof. A 54" Combination sewer exists in Roanoke Parkway and through the easement identified hereon as Exception No. 9. And a 16" Storm Sewer exists in Belleview Avenue widening to a 26" Storm sewer in Roanoke Parkway. The Missouri One Call did not mark their locations.

13. The encroachments onto the surveyed premises are noted and shown hereon.

a) A wall encroaches across the Northwesterly property line by 0.06' as shown.

b) A wall encroaches onto the surveyed property at the PI in the North property line by 0.19' Southeasterly as shown.

Flood Zone:

This property lies within Flood Zone C, defined as areas of minimal flooding as shown on the Flood Insurance Rate Map, prepared by the Federal Emergency Agency's National Flood Insurance Program for Kansas City, Jackson County, Missouri, Map Number 2901730100C and dated September 14, 1990.

Zoning:

According to the information provided by the Kansas City Missouri Planning Commission. The subject property is zoned as district B4–5, Heavy Business/Commercial. Intended to accommodate "heavier" commercial activities and a limited range of industrial uses with operating characteristics that make them generally incompatible with mixed-use or neighborhood-oriented environments. **Lot Size** – None, Unless single purpose residential building, then 200'.

Lot Size – None, Uniess single purpose residential building, then 200.

1.Front

a. Abutting Residential – Front setback required only when O– or B–zoned lot abuts R–zoned lot with frontage on the same street. In such cases, the O– or B–zoned lot must match the platted front setback of the abutting R–zoned lot. If there is no platted setback, the O– or B–zoned lot must provide at least 50% of the front setback that applies to the abutting R–zoned lot. b. Not abutting R district – None

2.Rear

a. Abutting Residential

- (1) % of lot depth 25
- (2) Maximum required (ft.) 30
- b.Not abutting R district None

3. Side

a. Abutting Residential – Side setback required only when the side yard of an O– or B–zoned lot abuts R–zoned lots. In such cases, the O– or B–zoned lot must provide the same side setback as required for the abutting R–zoned lot. b. Not abutting R district – None

Floor Area Limits – The gross floor area of allowed industrial establishments in the B4 district may not exceed 25,000 square feet.

SCHEDULE B 2 – EXCEPTIONS: Numbered as they appear in the current title commitment, see General Note 3. [Surveyor's Notes are in Brackets.] 8. Terms and provisions of the Contract by and between Forty–Sixth and Madison Redevelopment Corporation, and Kansas City, filed as Document No. K–629421 in Book K–1350 at Page 881. [Affects the premises of this survey, nothing further to plot.]

First Supplemental Amendment to Contract by the instrument filed March 23, 1989 as Document No. K—871409 in Book K—1899 at Page 56. [Affects the premises of this survey, Not a survey related item.]

Second Supplemental Amendment to Contract by the instrument filed March 27, 1990 as Document No. K–918410 in Book K–2007 at Page 266. [Affects the premises of this survey, nothing further to plot.]

Third Supplemental Amendment to Contract by the instrument filed March 23, 1992 as Document No. K–1015531 in Book K–2224 at Page 250. [Affects the premises of this survey, nothing further to plot.]

9. Sewer easement granted to City of Kansas City by the instrument filed as Document No. 1003570 in Book B–1587 at Page 365, over a portion of the premises in question, as more fully described therein. [As Shown and Noted Hereon] Encroachment of one story stone building over the above easement as shown on the Certificate of Survey by Anderson Survey Company dated February 28, 1998 as Job No. 98–2–38432–1. [No building is now apparent]

10. Terms and provisions of the Cooperative Agreement for Public Improvement to Plaza Environs by and between the City of Kansas City, and Forty–Sixth and Madison Redevelopment Corporation, filed as Document No. K–720873 as authorized by Ordinance No. 59591 approved March 18, 1986 and filed as Document No. K–720874. [Affects the premises of this survey, nothing further to plot.]

11 and 12 are not survey related items. (Lease Agreements)

13. Abandoned Sewer line as shown on the Certificate of Survey by Anderson Survey Company dated February 28, 1998 as Job No. 98–2–38432–1. 14 through 18 inclusive are not survey related items. (Lease and sundry items)

To: BK Properties, LLC, 4600 Madison Associates Limited Partnership, a Missouri limited partnership and Assured Quality Title Company as agent for First American Title Insurance Company:

This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2011 Minimum Standard Detail Requirements for ALTA/ACSM Land Title Surveys, jointly established and adopted by ALTA and NSPS. and includes Items 1, 2, 3, 4, 6(a), 6(b), 7(a), 7(b1), 7(c), 8, 9, 10(a), 11(a), 11(b), 14, 16, 18 and 20 of Table A thereof. The field work was completed on September 22, 2015.

LAND AREA: $64,393 \pm SQ$. FT. $(1.478 \pm AC.)$ PROPOSED LAND USE: MULTI-FAMILY RESIDENTIAL

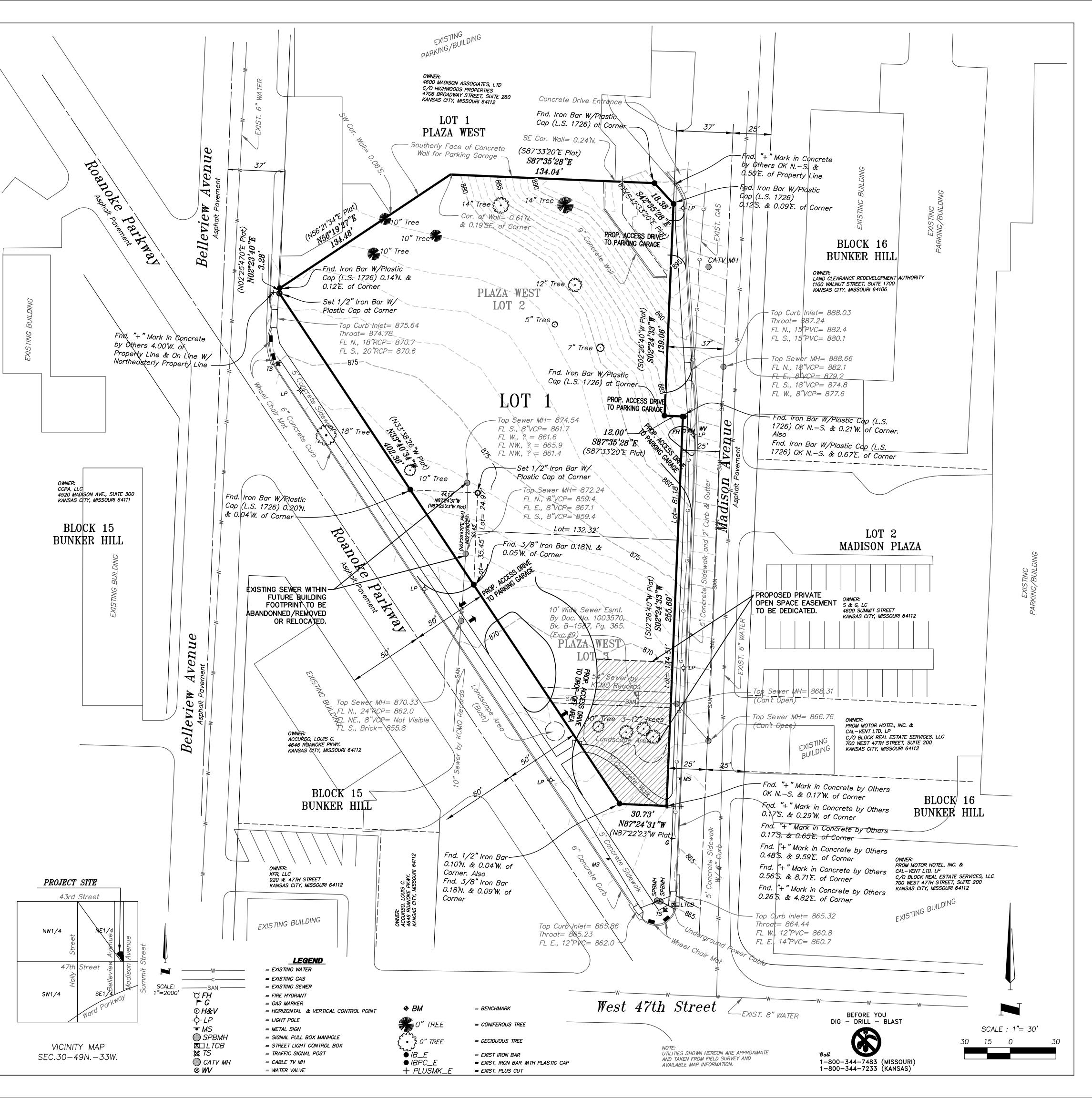
M^cCLURE ENGINEERING CO.

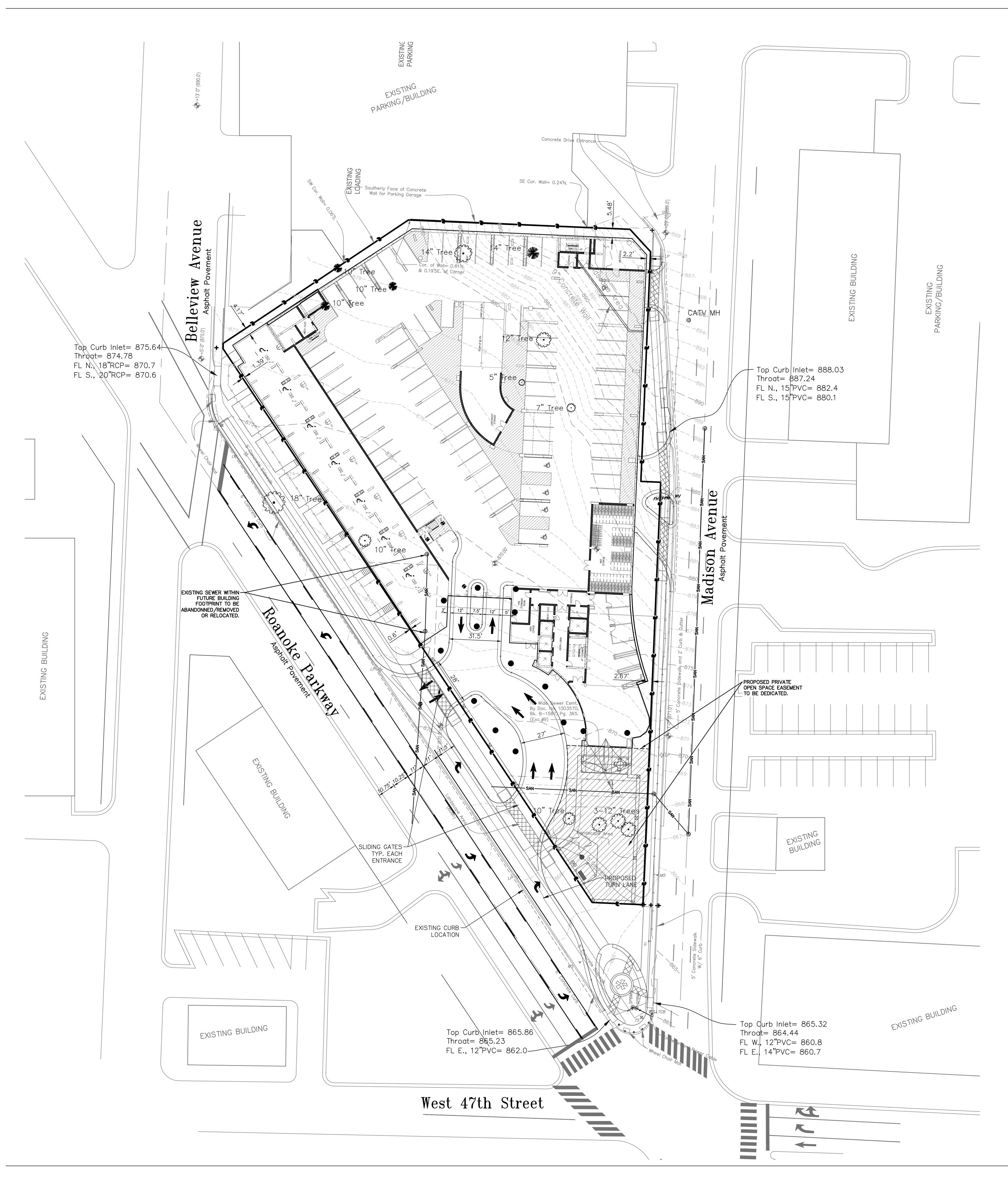
11031 Strang Line Road Lenexa, KS 66215 913.888.7800 FAX: 913.888.7868 SURVEYING | ENGINEERING | CONSTRUCTION



<u>CLIENT</u> BLOCK REAL ESTATE SERVICES, LLC 4622 PENNSYLVANIA AVE., SUITE 700 KANSAS CITY, MISSOURI 64112 PHONE NO. (816) 960–6247 FAX NO. (816) 960–6260

DATE: DECEMBER 17, 2015 REVISED: DECEMBER 29, 2015 REVISED: NOVEMBER 7, 2016 REVISED: OCTOBER 27, 2021 REVISED: DECEMBER 17, 2021





Description:

Lots 2 and 3, PLAZA WEST, a subdivision in Kansas City, Jackson County, Missouri, according to the recorded plat thereof. <u>General Notes</u>:

1. As of September 22, 2015 we have made no investigation for, or locations of, possible usable subsurface areas of private land or public ways, including, but not limited to, utility vaults of any nature, utility or pedestrian tunnels, under walk area ways, under alley area ways, fuel storage bins or tanks, elevator pits, and all or any combination of the above, except as shown, noted and described hereon. 2. Information as shown for underground utilities has been compiled from the records of various utility companies concerned, and as marked in the field by the Missouri One Call System, 1 (800) 344–7483. When precise locations of underground utilities are needed prior to excavation or connections, the various utility companies concerned are to furnish a crew to point out the locations at the job site. 3. Information shown on this survey was taken from Assured Quality Title Insurance Company as agent for First American Title Insurance Company, Commitment No. MJ105314, effective date, June 25, 2015.

4. This tract contains 63.059 sauare feet or 1.448 acres, more or less.

5. No observable evidence of earth moving work, building construction or building additions within recent months or at the time of this survey. 6. The Surveyor is not aware of proposed changes of right—of—way over the surveyed premises. It is customary for the City to not reveal plans for future acquisitions of right—of—way until such time as the property is being redeveloped. The surveyor observed no evidence of recent street or sidewalk construction or repairs. 7. No observable evidence of site used as a solid waste dump, sump or sanitary landfill, as observed from a layman point of view. 8. At the time of this survey there were NO building structures or party walls and NO painted striped areas on the surveyed premises. 9. The Kansas City Missouri online mapping (parcel viewer) indicates the address of Lot 2 as 4615 Roanoke Parkway and Lot 3 as 4651 Roanoke Parkway. 10. Contours shown hereon are at 1 foot intervals and based on U.S.G.S NAVD 88 Datum. 11. The KCMO Water Atlas indicates a 6" Water Main exists in Madison and Belleview Avenues. Also an 8" water main exists in 47th Street. The Missouri One Call did not mark their locations.

12. The KCMO Sewer Atlas indicates a 15" Combination sewer exists in Madison Avenue near the West eight—of—way line thereof. A 54" Combination sewer exists in Roanoke Parkway and through the easement identified hereon as Exception No. 9. And a 16" Storm Sewer exists in Belleview Avenue widening to a 26" Storm sewer in Roanoke Parkway. The Missouri One Call did not mark their locations. 13. The encroachments onto the surveyed premises are noted and shown hereon.

a) A wall encroaches across the Northwesterly property line by 0.06' as shown. b) A wall encroaches onto the surveyed property at the PI in the North property line by 0.19' Southeasterly as shown.

<u>Flood Zone</u>:

Agency's National Flood Insurance Program for Kansas City, Jackson County, Missouri, Map Number 2901730100C and dated September 14, 1990.

According to the information provided by the Kansas City Missouri Planning Commission. The subject property is zoned as district B4–5, Heavy Business/Commercial. Intended to accommodate "heavier" commercial activities and a limited range of industrial uses with operating characteristics that make them generally incompatible with mixed–use or neighborhood–oriented environments. Lot Size - None, Unless single purpose residential building, then 200'. Setback

1.Front

- 0- or B-zoned lot must match the platted front setback of the abutting R-zoned lot. If there is no platted setback, the 0- or B-zoned lot must provide at least 50% of the front setback that applies to the abutting R-zoned lot. b.Not abutting R district – None
- 2.Rear a. Abutting Residential
- (1) % of lot depth 25 (2) Maximum required (ft.) – 30
- b. Not abutting R district None 3. Side

a. Abutting Residential – Side setback required only when the side yard of an O- or B-zoned lot abuts R-zoned lots. In such cases, the O- or B-zoned lot must provide the same side setback as required for the abutting R-zoned lot. b. Not abutting R district - None

LEC	GEND
₩ ₩ ₩ ₩ ₩	FIRE HYDRANT PROPERTY LINE WATER LINE SANITARY LINE (PROP) SANITARY SEWER (EXIST)
G FO	FIBER OPTIC SERVICE LINE
DW FPL RDN	UNDERGROUND TELEPHONE DOMESTIC WATERLINE FIRE PROTECTION WATERLINE STORM SEWER ROOF DRAIN LINE
1000 	DENOTES PROPOSED CONTOUR INDICATES EXISTING CONCRETE CURB & GUTTER INDICATES PROPOSED CONCRETE CURB & GUTTER

SCHEMATIC DESIGN NARRATIVE FOR UTILITIES AND STORM

- 1. Stormwater Detention Detention will need to be provided for the 10 year and 100 year storms. Extended detention will also need to be provided for a 1.5" rainfall. We anticipate that approximately 19,000 cubic feet of detention storage will be required. The bottom of the detention basin should ideally be at approximately 865 to be above the receiving system that is likely undersized. The bottom of the basin could be below that if absolutely necessary. The extended detention volume (8,200 CF) could be below elevation 865, but the 10/100 year detention volume (11,000 CF+/-) would need to be above that elevation. Be aware that if the bottom of the basin is below 865, there would be a possibility that combined sewer overflow could back up into the basin. Detention options include: • A concrete box that could be constructed as a part of the building structure. The box needs to be 70'x70'x4'. A different layout could be used that meets the volume requirements and is coordinated with the structural
- dimensions of the building. • An ADS Stormtech system consisting of approximately 175 MC-3500 chambers • 1,500 L.F. of buried 48" HDPE pipe.
- 2. Public Utilities
- Sanitary Sewer the development is located within a Combined Sewer Overflow. An existing 10" diameter sanitary sewer on the west side of the property is available to serve the development. However, a portion of this sewer will require modification to accommodate construction of the proposed building. Approximately 90 lineal feet of existing 10" sewer along with two (2) manholes will require removal. The existing 10" sanitary sewer discharges directly to an existing 54" diameter combined sewer that is routed from west to east at the south end of the property.
- Water an existing 6" diameter water main located under Madison Avenue is available to serve the development. Future testing for this main is recommended to confirm that adequate pressure is available to adequately serve the proposed building. Design (by a licensed Plumbing Engineer) and installation of a booster pump may be necessary to meet these demands.
- Storm Sewer A pair of curb inlets at the corner of Roanoke Parkway, Madison Avenue, and W. 47th Street currently collect stormwater runoff generated by the site. As previously noted, the property is located within a Combined Sewer Overflow. The existing 54" diameter combined sewer accepts stormwater conveyed to the previously described curb inlets. The 54" combined sewer that crosses through the property would require relocation if the detention volume is provided under the courtyard, instead of within the building footprint. Approximately 160 lineal feet of the combined sewer would need to be removed. Approximately 250 lineal feet of new 54" sewer would be needed to complete the relocation.
- An existing gas main is located on the west side of Madison Avenue. • Information from KCPL is pending but the site survey does show an underground power cable located at the south end of the site at the intersection of Madison Avenue and Roanoke Parkway.

inlet located at the northwest corner of 47th and Madison.

This property lies within Flood Zone C, defined as areas of minimal flooding as shown on the Flood Insurance Rate Map, prepared by the Federal Emergency

a. Abutting Residential – Front setback required only when O– or B–zoned lot abuts R–zoned lot with frontage on the same street. In such cases, the

LEGEND

= BENCHMARK

= CONIFEROUS TREE

= DECIDUOUS TREE

= EXIST IRON BAR

= EXIST. PLUS CUT

= FIRE HYDRANT

= GAS MARKER

= LIGHT POLE

= METAL SIGN

= CABLE TV MH

= WATER VALVE

= EXIST. IRON BAR WITH PLASTIC CAP

= HORIZONTAL & VERTICAL CONTROL F

= SIGNAL PULL BOX MANHOLE

= STREET LIGHT CONTROL BOX

= TRAFFIC SIGNAL POST



20 10 0 20

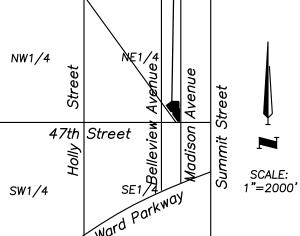
🕈 BM

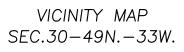
0" TREE

- 🔮 0" TREE ● IB_E ● IBPC_E
- + PLUSMK_E ୪*୮*୫
- G
- ⊙ H&V -\$-LP
- ➡ MS
- SPBMH
- **⊠** LTCB
- 🕱 TS
- CATV MH $\otimes WV$

3. Private sanitary sewer and storm sewer connection – The sanitary sewer service line can be connected to the public 10" sewer main via a tee or wye connection. The private storm sewer can connect to the existing public curb

> PROJECT SITE 43rd Street







REAL ESTATE SERVICES, LLC

Project 47 Madison Avenue

Prepared For Block Real Estate Services, LLC 4600 Plaza, LLC

700 West 47th Street, Suite 200 Kansas City, Missouri 64112



In Association with

Hellmuth. Obata & Kassabaum. Inc. 300 West 22nd Street Kansas City, MO 64108 USA t +1 816 472 3360 f +1 816 472 2100

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Walker Parking Parking Consultant 505 Davis Road Elgin, IL 60123 p. (847) 710.3223 Lerch Bates Elevator Consultant 9780 S. Meridian Blvd, Ste. 450 Englewood, CO 80112 p. (303) 723.7978 Cloward H20 Aquatic Design 2696 N University Ave, Ste. 290 Provo, UT 84604 p. (801) 375.1223 Heitman & Associates

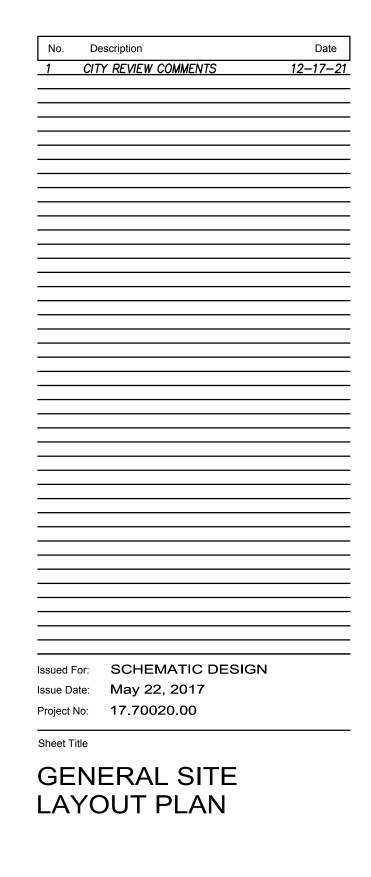
Building Envelope Consultant 14500 S Outer Rd, Ste. 110 Chesterfield, MO 63017 p. (314) 439.1944 Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218

Key Plan

p. (913) 400.3694

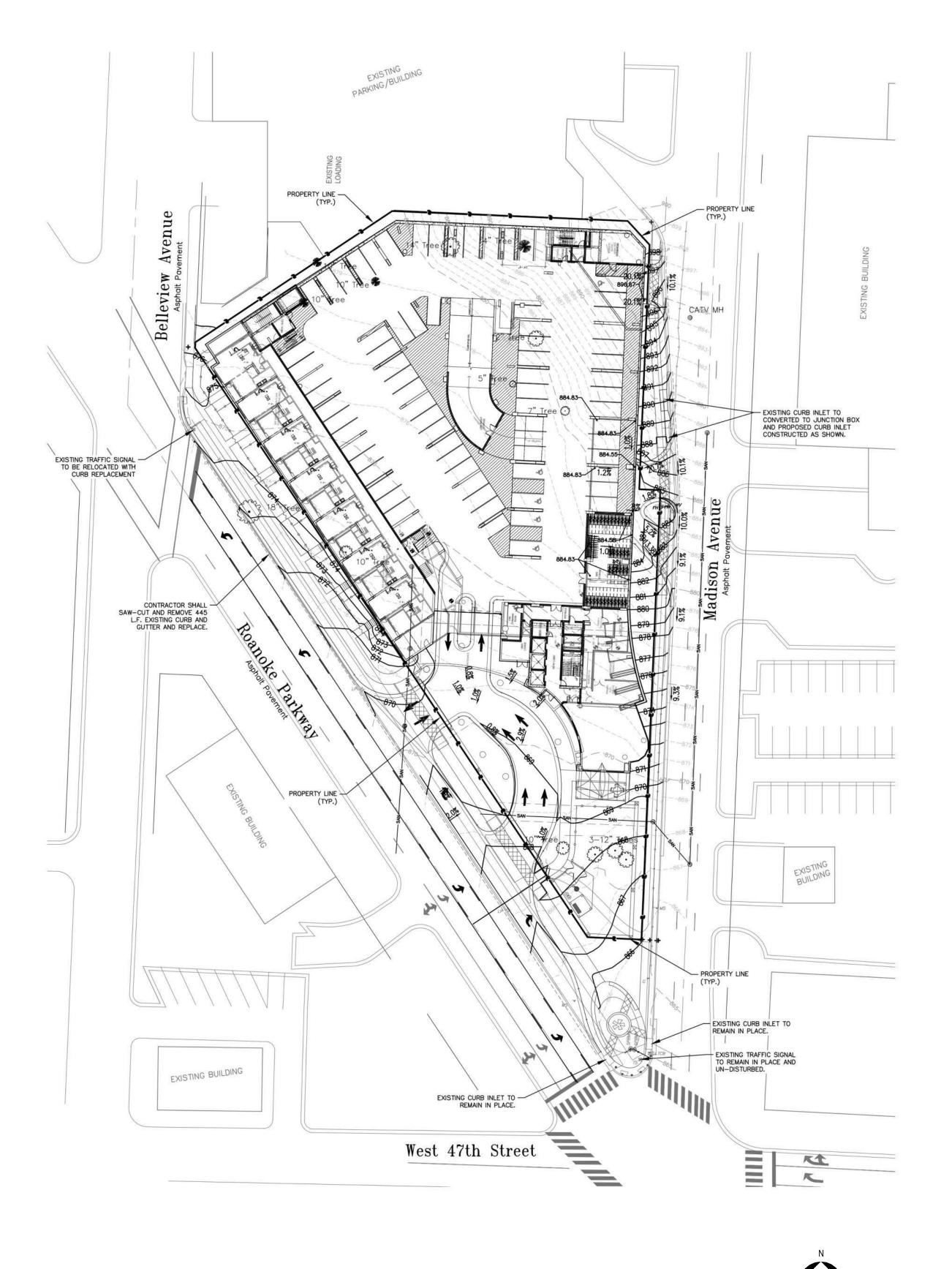
Professional Seals

NOT FOR CONSTRUCTION



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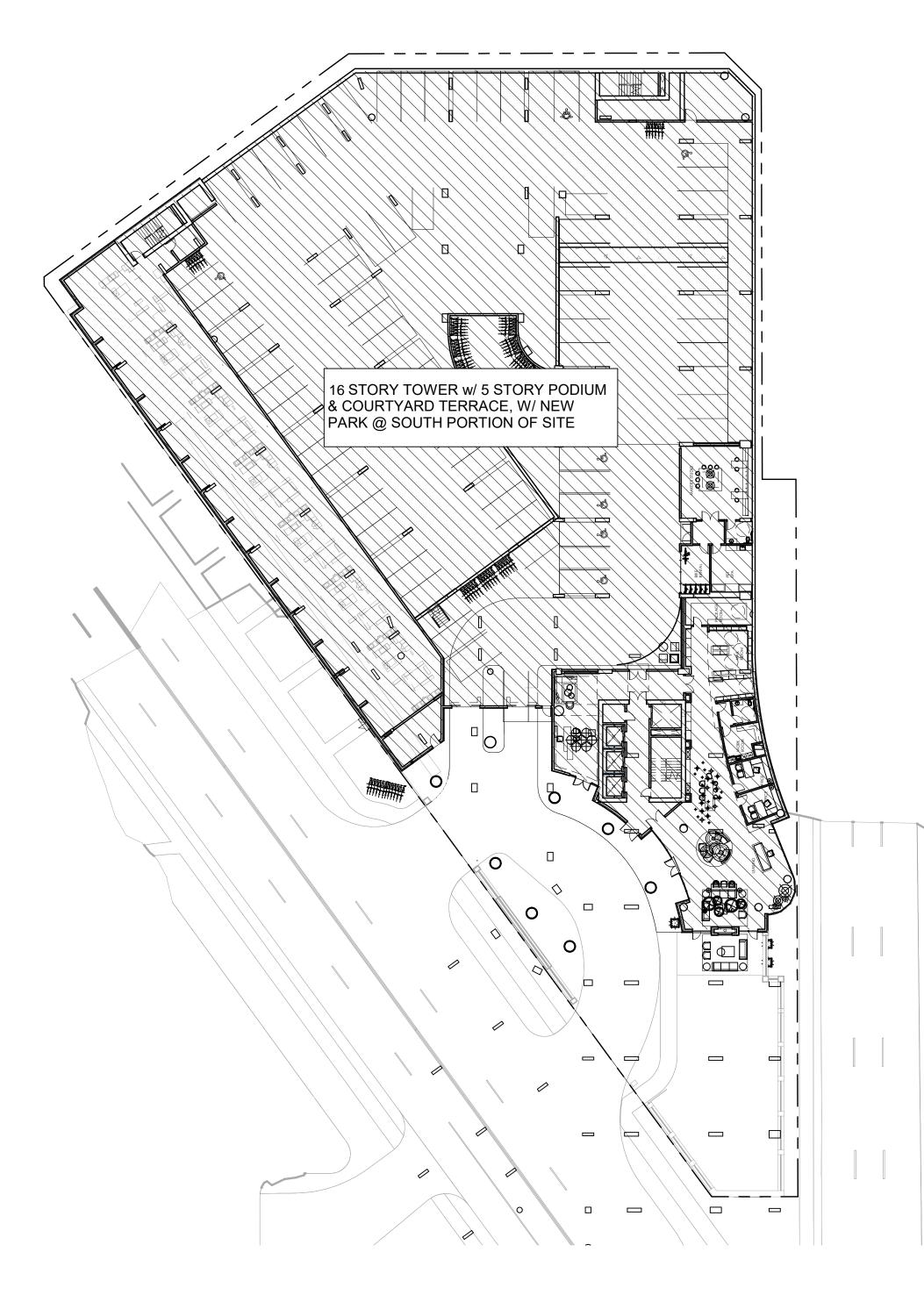




SITE PLAN - TOPOGRAPHY AND SPOT ELEVATIONS

Legal Description:

All of Lots 2 and 3, PLAZA WEST, a subdivision in Kansas City, Jackson County Missouri and that part of vacated Roanoke Parkway, Section 30, Township 49 North, range 33 West, all in Kansas City, Jackson County, Missouri, more particularly described as follows: Commencing at the Northeast corner of Lot 2, said PLAZA WEST; thence S 2° 24' 33" W, along the East line of said Lot 2, a distance of 139.06 feet; thence S 87° 35' 28" E, along said East line, a distance of 12.00 feet; thence S 2° 24' 33" W, along the East line of said Lots 2 and 3, a distance of 255.69 feet, to the Southeast corner of said Lot 3; thence N 87° 24' 31" W, along the South line of said Lot 3, a distance of 30.73 feet, to the Southeast corner of said Lot 3; thence N 33° 40' 34" W, along the west line of said Lots 2 and 3, a distance of 30.73 feet, to the Southwest corner of said Lot 3; thence N 33° 40' 34" W, along the west line of said Lots 2 and 3, a distance of 402.36 feet, to the Westerly corner of said Lot 2; thence N 2° 23' 40" E, along the West line of said Lot 2, a distance of 3.28 feet, to the Northwest corner of said Lot 2; thence N 56° 19' 27" E, along the North line of said Lot 2, a distance of 134.48 feet; thence S 87° 35' 28" E, along said North line, a distance of 134.04 feet; thence S 42° 35' 28" E, along said North line, a distance of 18.38 feet, to the point of beginning



PROPOSED DEVELOPMENT PLAN

N.T.S.





REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



In Association with

Hellmuth, Obata & Kassabaum, Inc. 300 West 22nd Street Kansas City, MO 64108 USA

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No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
	CITY PLANNING RESUBMITTAL	12.01.2021
	CITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date: October 1, 2021

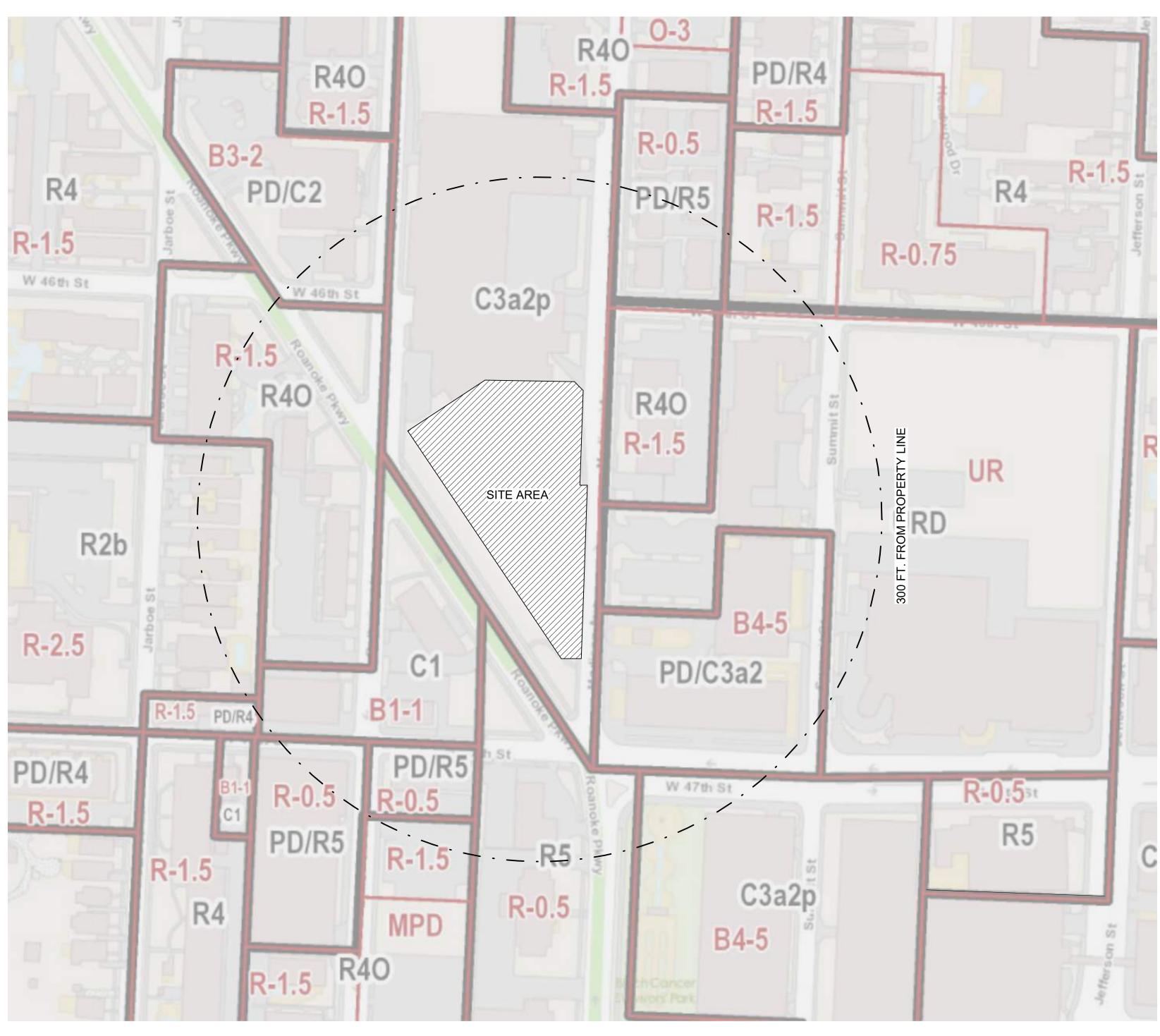
Project No: 17.70020.00

Sheet Number

Sheet Title OVERALL **DEVELOPMENT &** SITE PLAN

Original drawing is 24X36. Do not scale contents of this drawing.

A1-01



EXISITING ZONE AND SITE CONDITIONS WITHIN 300 FT 1" = 100'-0"

47 MADISON	AVENUE - MULTI-FAMILY		KANSAS CITY, MO	NSPJ 587616
				4/5/1
PROJECT DA	ATA			
SITE AREA:		1.48 ACRES 64,393 S.F.		
DENSITY: LOT COVERAGE TOTAL # OF RES	SIDENTIAL UNITS:	161 UNITS / ACRE 76.3% 238	(1st FLOOR SF USED)	
LOT AREA PER U		270.6 S.F. PER UNIT	(SITE S.F. / # UNITS)	
FAR:		5.5		
PARKING:	RESIDENTIAL PARKING REQUIRED:	355 SPACES	(RE: BELOW FOR CALCULATION MET	HOD)
	TOTAL PARKING PROVIDED:	374 SPACES 1.57 SPACES PER U	(RE: PLANS FOR ADDT'L INFO) NIT / PARKING RATIO	
TOTAL AREAS:	> INT. LOBBY / LEASING / AMENITIES: > MEP / STORAGE / LOADING / TRASH: > PARKING AREA:	21,641 SF 14,492 SF 168,073 SF	(RE: PLANS FOR ADDT'L LAYOUT & A (RE: PLANS FOR ADDT'L LAYOUT & AI (RE: PLANS FOR ADDT'L LAYOUT INF(REA INFO)
	NET RESIDENTIAL AREA:	254,309 SF		
	TOTAL GROSS AREA: FAR APPLICABLE NET AREA	549,870 SF 354,555 SF		
ZONING SUN	IMARY			
	ADDRESS:	4600 Madison		
	CURRENT ZONING DESIGNATION:	B4-5		
	MIN. LOT AREA PER UNIT:	200 SF PER UNIT		
SETBACKS:	FRONT:	N/A		
	SIDE:			
	REAR:	N/A		
	MAXIMUM HEIGHT: MAXIMUM FAR:	N/A 6.0		
	MAXIMUMUM LOT COVERAGE:	N/A		
PARKING:				
	RESIDENTIAL REQUIRED:	 1.0 PER STUDIO DWELLING UNIT 1.0 PER 1BR DWELLING UNIT 1.25 PER 1BR+DEN DWELLING UNIT 1.5 PER 2BR DWELLING UNIT 2.0 PER 2BR+DEN DWELLING UNIT 1.0 PER TOWNHOUSE - 1BR+LOF 	I	
	LOADING DOCKS:	1 LOADING SPACE REQUIRED FO EXLUCDING MANEUIVERING ARE/	R 50+ DWELLING UNITS AS, MIN. 10'x25' REQ'D CLEAR FOR LOAI	DING DOCK
*FAR-The floor a	rea of the building divided by the total gros			
88-820-07 - FLO The floor area of	OR AREA RATIO the building divided by the total gross area	a of the lot upon which the building	is located.	
	the purpose of calculating floor area ratio the interior faces of the exterior walls. The "	-	-	oors in the building

1. floor area of any floor located below grade or partially below grade when more than one-half the floor-to-ceiling height of the below-grade (or partially-belowgrade) floor is above grade level;

2. elevator shafts and stairwells on each floor;

3. floor area used for mechanical equipment, except equipment located on the roof and mechanical equipment within the building that occupies a commonly owned contiguous area of 5,000 square feet or more;

4. those portions of an attic having clear height (head-room) of 6 feet 9 inches or more; 5. mezzanines;

6. enclosed porches;

7. floor area devoted to non-accessory parking;

8. floor area within a principal building that is occupied by accessory uses.

88-820-07-B. For the purpose of calculating floor area ratios, floor area devoted to accessory parking and the drive aisles and circulation area associated with such parking are not to be counted as "floor area."

LOADING REQUIREMENTS:

Household living uses: 50 + units = 1 loading space required Off-street loading spaces, excluding maneuvering areas, must be at least 10 feet wide and 25 feet long unless off-street loading will involve the use of semitractor trailer combinations or other vehicles in excess of 25 feet in length, in which case the minimum size of a space is 12 feet by 60 feet.



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	CITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date:October 1, 2021

Project No: 17.70020.00

Sheet Number

Sheet Title OVERALL DEVELOPMENT PLAN

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A1-02

PRELIMINARY PLANT LIST



	Common Name	Botanical Name	Size	Notes
A SALAR AND A S	nar Trees			
ARM	Armstrong Maple	Acer rubrum 'Armstrong'	2" Cal.	B&B
CHB	Columnar Hornbeam	Carpinus betulus 'Fastigiata'	2" Cal.	B&B
СОМ	Columnar Sugar Maple	Acer saccharum 'Endowment'	2" Cal.	B&B
HOK	Heritage Oak	Quercus macdanielii 'Clemons'	2" Cal.	B&B
RPO	Columnar Regal Prince Oak	Quercus robur x bicolor 'Long'	2" Cal.	B&B
Shade				2
ABM	Autumn Blaze Maple	Acer x fermoni 'Autumn Blaze'	2" Cal.	B&B
AFM	Autumn Fantasy Maple	Acer x fermoni 'Autumn Fantasy'	2" Cal.	B&B
APA	Autumn Purple Ash	Fraxinus americana 'Autumn Purple'	2" Cal.	B&B
BCY	Common Baldcypress	Taxodium distichum	2" Cal.	B&B
BWM	Brandywine Red Maple	Acer rubrum 'Brandywine'	2" Cal.	B&B
CQM	Crimson Queen Red Maple	Acer platanoides 'Crimson Queen'	2" Cal.	B&B
FEM	Frontier Elm	Ulmus carpinifolia x parvifolia 'Frontier'	2" Cal.	B&B
FFM	Fall Fiesta Sugar Maple	Acer saccharum 'Fall Fiesta'	2" Cal.	B&B
GNK	Autumn Gold Ginkgo	Ginkgo biloba 'Autumn Gold'	2" Cal.	B&B
HOK	Heritage Oak	Quercus macdanielii 'Clemons'	2" Cal.	B&B
LLL	Greenspire Littleleaf Linden	Tilia cordata 'Greenspire'	2" Cal.	B&B
LPT	London Plane Tree	P. x acerifolia 'Bloodgood'	2" Cal.	B&B
LSM	Legacy Sugar Maple	Acer saccharum 'Legacy'	2" Cal.	B&B
NSM	Norwegian Sunset Maple	Acer truncatum x A. platanoides 'Keithsform'	2" Cal.	B&B
OGM	October Glory Red Maple	Acer rubrum 'October Glory'	2" Cal.	B&B
PSM	Pacific Sunset Maple	Acer truncatum x A. platanoides 'Warrenred'	2" Cal.	B&B
ROK	Red Oak	Quercus rubra	2" Cal.	B&B
SGM	Sienna Glen Maple	Acer x fermoni 'Sienna'	2" Cal.	B&B
SKH	Skyline Honeylocust	Gleditsia triacanthos 'Skyline'	2" Cal.	B&B
SOK	Shumard Oak	Quercus shumardii	2" Cal.	B&B
SVM	Sun Valley Maple	Acer rubrum 'Sun Valley'	2" Cal.	B&B
swo	Swamp White Oak	Quercus bicolor	2" Cal.	B&B
ZEL	Zelkova	Zelkova serrata 'Green Vase'	2" Cal.	B&B
	Columnar Zelkova	Zelkova serrata 'Musashino'	2" Cal.	B&B
Evergr	een Trees			
ARB	Thuja orientalis	Oriental Arborvitae	5' Ht.	B&B
BSP	Bakeri Blue Spruce	Picea pungens 'Bakeri'	5' Ht.	B&B
CBS	Columnar Blue Spruce	Picea pungens 'Blue Totem'	5' Ht.	B&B
CNS	Columnar Norway Spruce	Picea abies 'Cupressina'	5' Ht.	B&B
ERC	Red Cedar	Juniperus virginiana	5' Ht.	B&B
KTJ	Keteleeri Juniper	Juniperus chinensis 'Keteleeri'	5' Ht.	B&B
NWS	Norway Spruce	Picea abies	5' Ht.	B&B
SBS	Serbian Spruce	Picea omorika	5' Ht.	B&B
TYJ	Taylor Juniper	Taylor Upright Juniper	5' Ht.	B&B
RSS	Riverside Upright Spruce	Picea omorika 'Riverside'	5' Ht.	B&B
WSS	Wellspire Spruce	Picea mariana 'Wellspire'	5' Ht.	B&B
	ental Trees			
CBC	Coralburst Crabapple	Malus 'Coralburst'	1" cal	B&B
CPP	Crimson Pointe Plum	Prunus x cerasifera 'Cripoizam'	1" cal	B&B
ERB	Eastern Redbud	Cercis canadensis	1" cal	B&B
FLD	Flowering Dogwood	Cornus florida	1" cal	B&B
HGC	Harvest Gold Crabapple	Malus 'Harvest Gold'	1" cal	B&B
MAG	Evergreen Magnolia	Magnolia grandiflora 'DD Blanchard'	1" cal	B&B
PFC	Prairiefire Crabapple	Malus x 'Prairifire'	1" cal	B&B
RRC	Royal Red Crabapple	Malus 'Royal Red'	1" cal	B&B
RVB	River Birch	Betula nigra	1" cal	B&B
SBM	Sweetbay Magnolia	Magnolia virginiana v .australis	1" cal	B&B
222	Spring Spow Crabapple	Malus Chring Choul	1" ool	DOD

Malus 'Spring Snow'

ACCENT PAVING, TYP.

Cercis canadensis 'White Bud'

Amelanchier x grandiflora 'Autumn Brilliance'

BENCH

GENERAL NOTES

FOR INDIVIDUAL PLANTINGS:

AESTHETIC VIEWING.

DESCRIPTION.

LANDSCAPE REQUIREMENTS

STREET TREES (88-425-03): 1. 1 TREE PER 30 LF OF STREET FRONTAGE.

ROANOKE PARWAY = +/-405 LF/ 30 LF =

MADISON AVENUE = +/-413 LF/ 30 LF =

GENERAL LANDSCAPING REQUIREMENTS (88-425-04):

BUILDING FOOTPRINT = 49,689 SF/5,000 LF =

OR MOTORIZED SIGNAGE SHALL NOT BE PERMITTED.



B&B

B&B

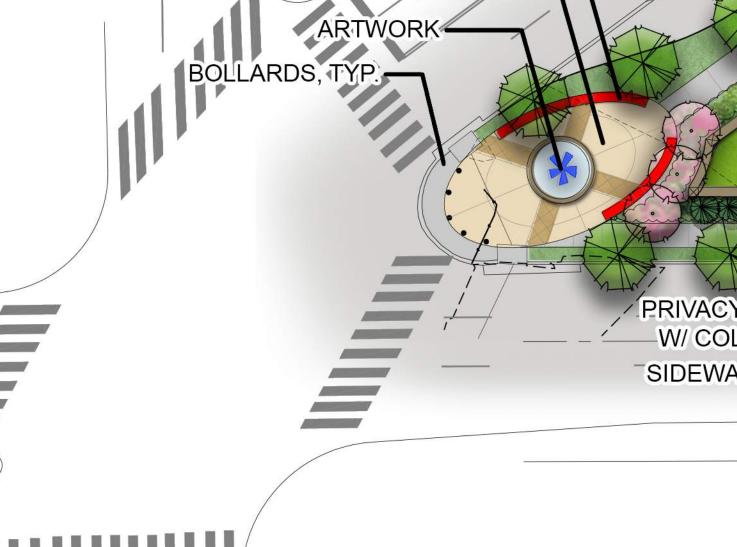
1" cal

1" cal

DOG PARK



SIDEWALK, TYP.



1

State of the second

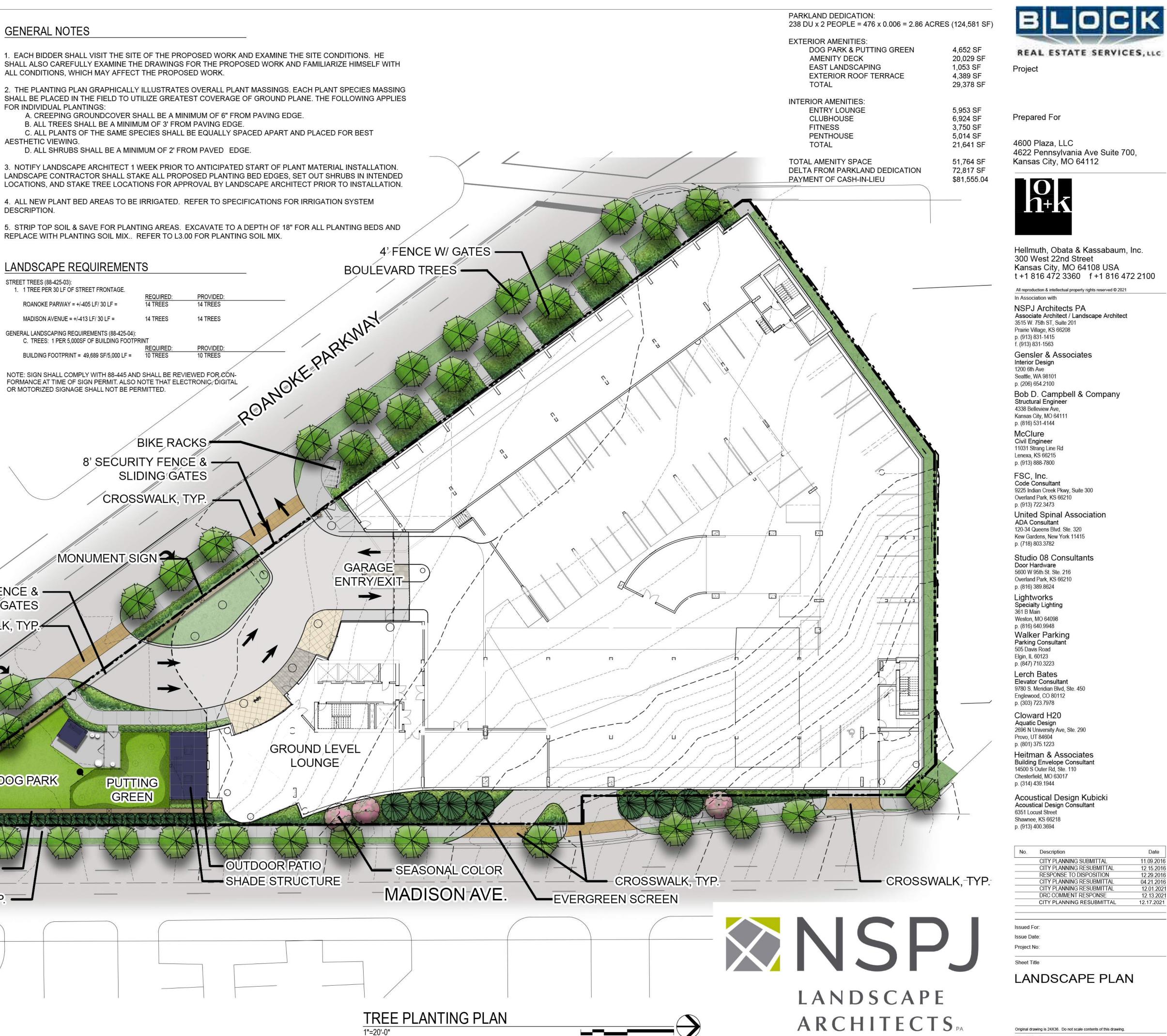
Spring Snow Crabapple

Autumn Brilliance Serviceberry

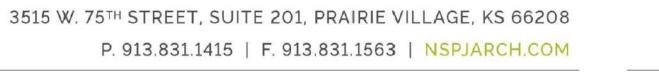


SVB

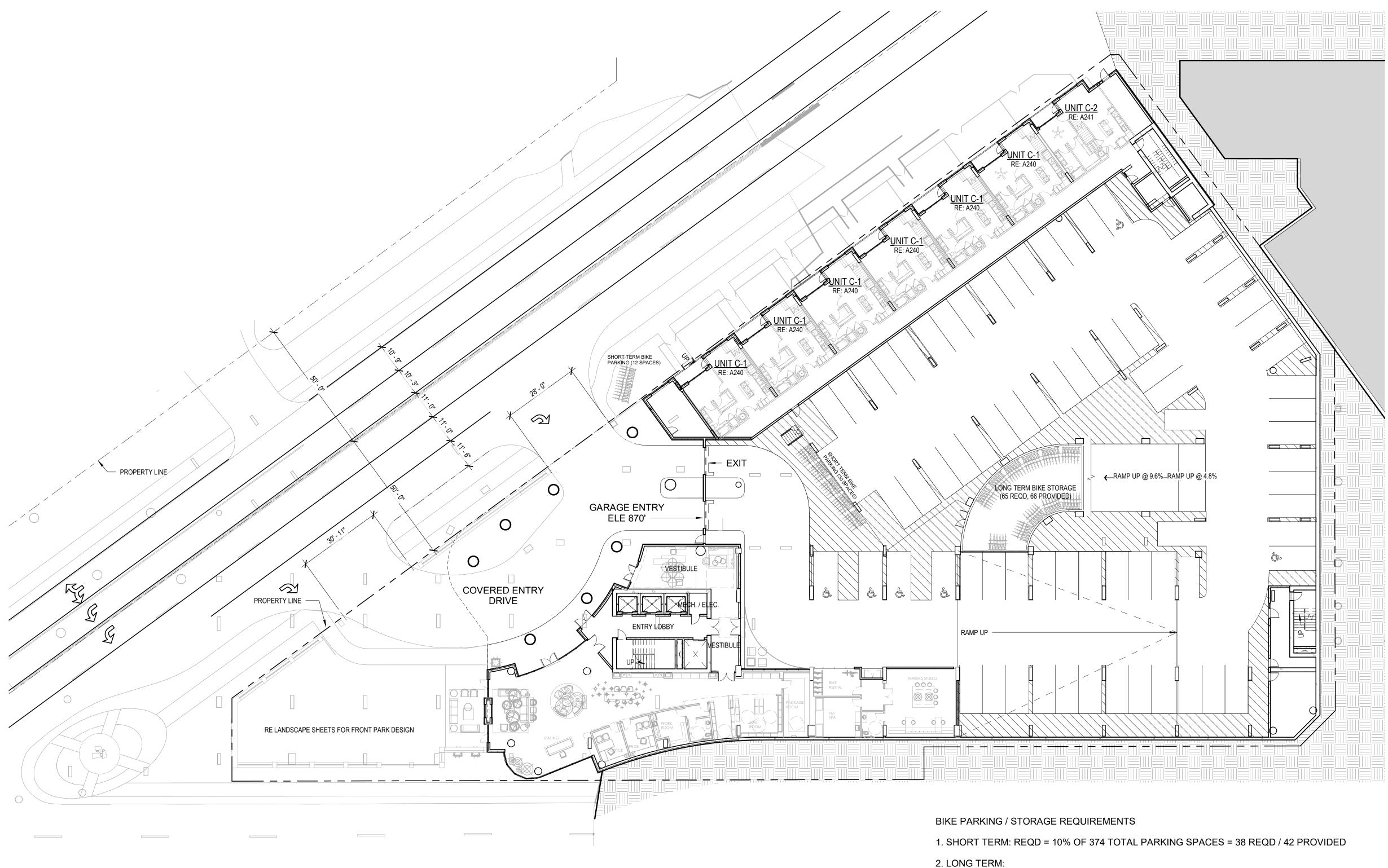
WBD Whitebud



Sheet Number



A1-03



LEVEL 01/P1 PARKING

REQD = 1 PER 3 UNITS (UP TO 50) / 1 PER 6 UNITS (ABOVE 50)
 REQD = (150 UNITS / 3) + ((238 UNITS - 150 UNITS) / 6) = 65 REQD / 66 PROVIDED

AREA - LEVEL 01 / P1		
Name	Area	
• •••		
Amenities	5,953	
Apartment	5,086	
Circulation	3,947	
Leasable Storage	223	
Opperations	417	
Parking Area	33,682	
Grand total	49,309	

PARKING - LEVEL 01/P1	
Туре	Count
8'-6"x18'	21
9'-0"x18'-0" Handicap	5
Total	26

H

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C	ITY PLANNING RESUBMITTAL	12.01.2021
C	ITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date:October 1, 2021

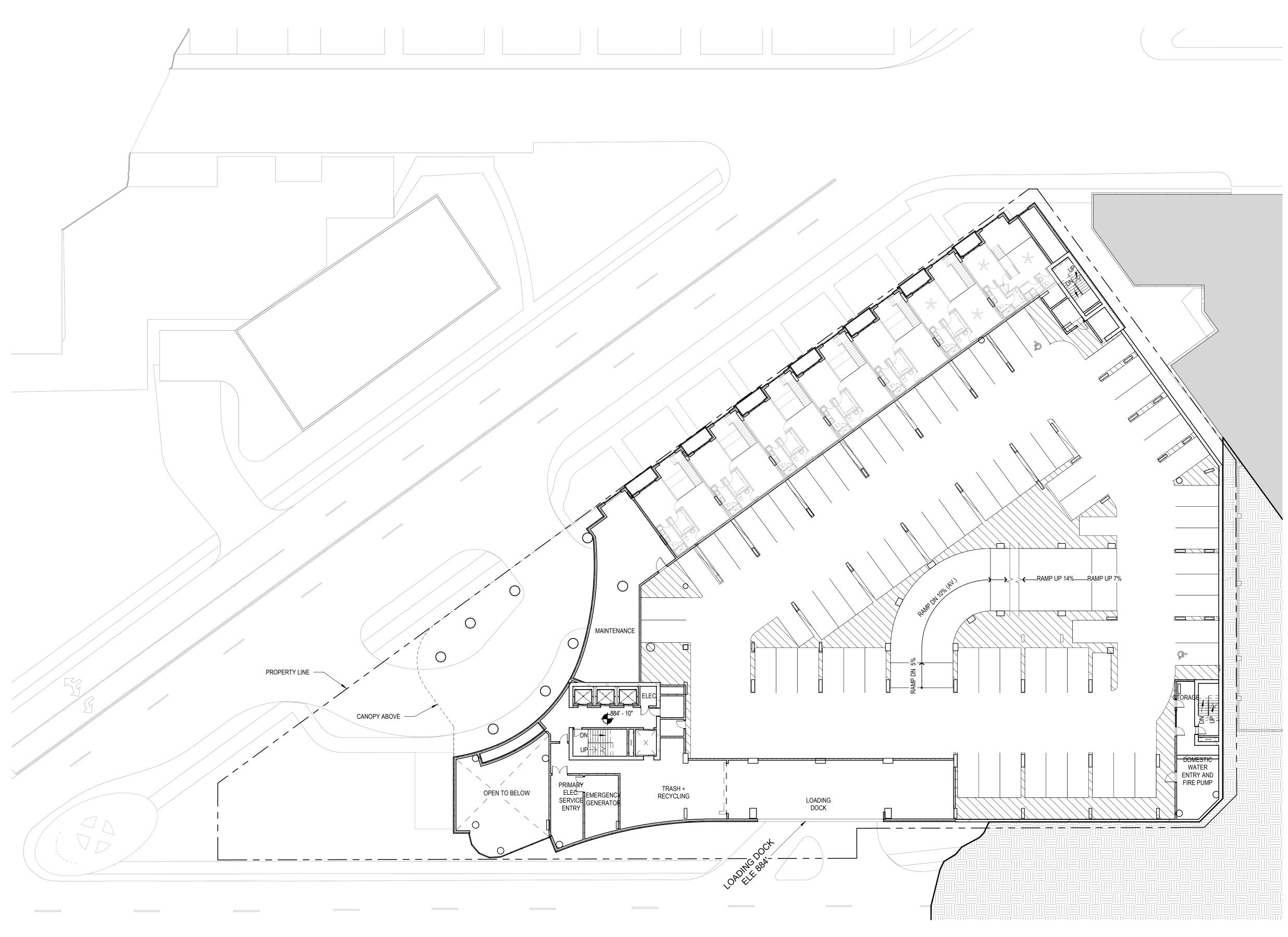
Project No: 17.70020.00

Sheet Number



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A4-'



LEVEL 01/P2 1" = 20'-0"



REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



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Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218 p. (913) 400.3694

No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
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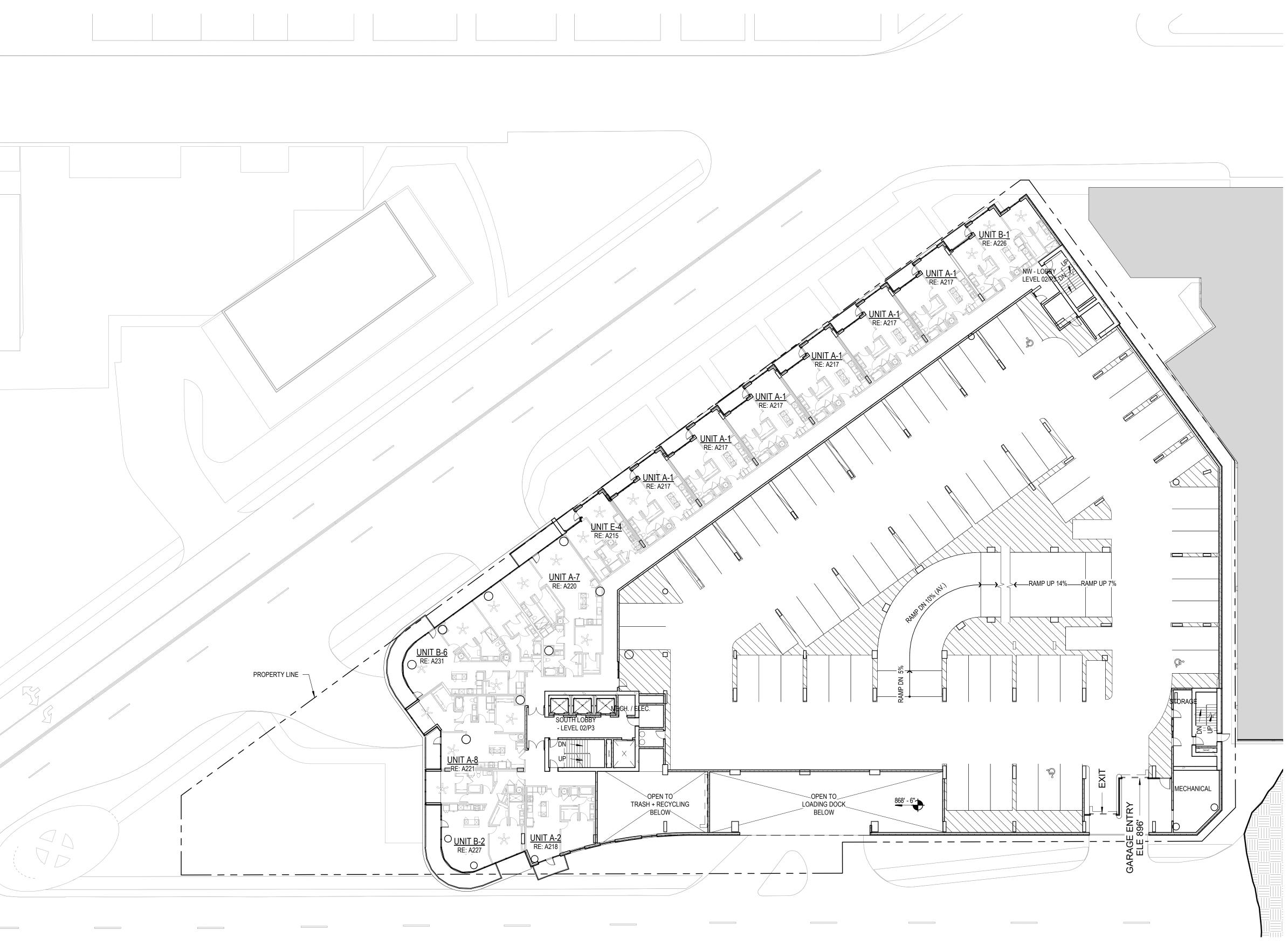
AREA LEV	EL ()1/P2
Name		Area
Anortmont	4	909
Apartment		
Circulation	2,	185
Leasable Storage	19	8
Opperations	4,255	
Parking Area	35,776	
Grand total	47	,323
PARKING - LI	EVE	L 01/P2
Туре		Count
7'-6"x15'-0"		3
8'-6"x18'		57
9'-0''x18'		14
		1

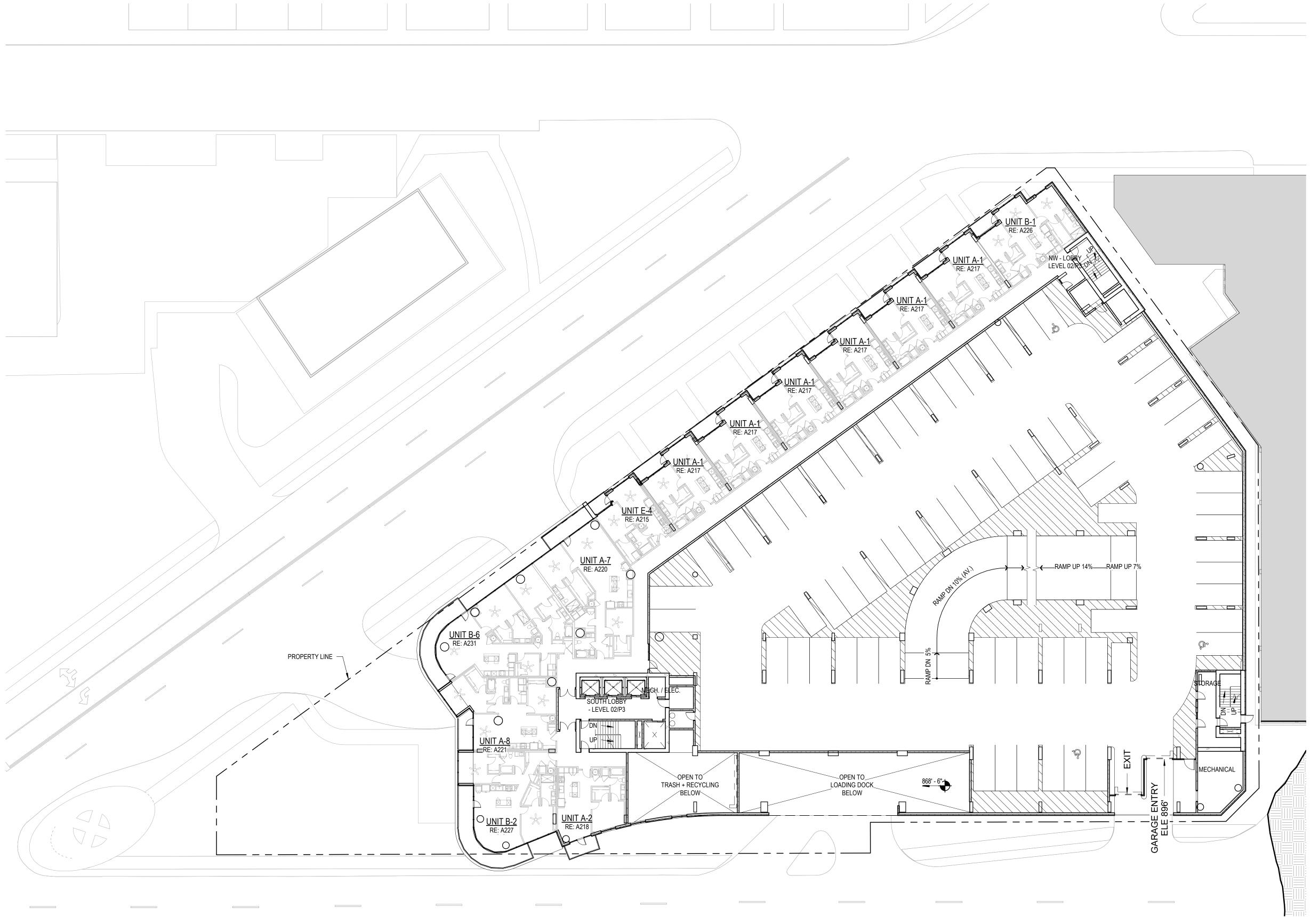
2

76

9'-0"x18'-0" Handicap

Total





LEVEL 02 / P3 1" = 20'-0"

AREA - LEVEL 02 / P3			
Name Area			
Apartment	12	2,019	
Circulation	4,205		
Leasable Storage	222		
Opperations	308		
Parking Area	33,453		
Grand total 50),207	
PARKING - LI	EVE	L 02/P3	
Туре		Count	

Count
+
3
54
14
2
73



REAL ESTATE SERVICES, LLC Project

THE MADISON

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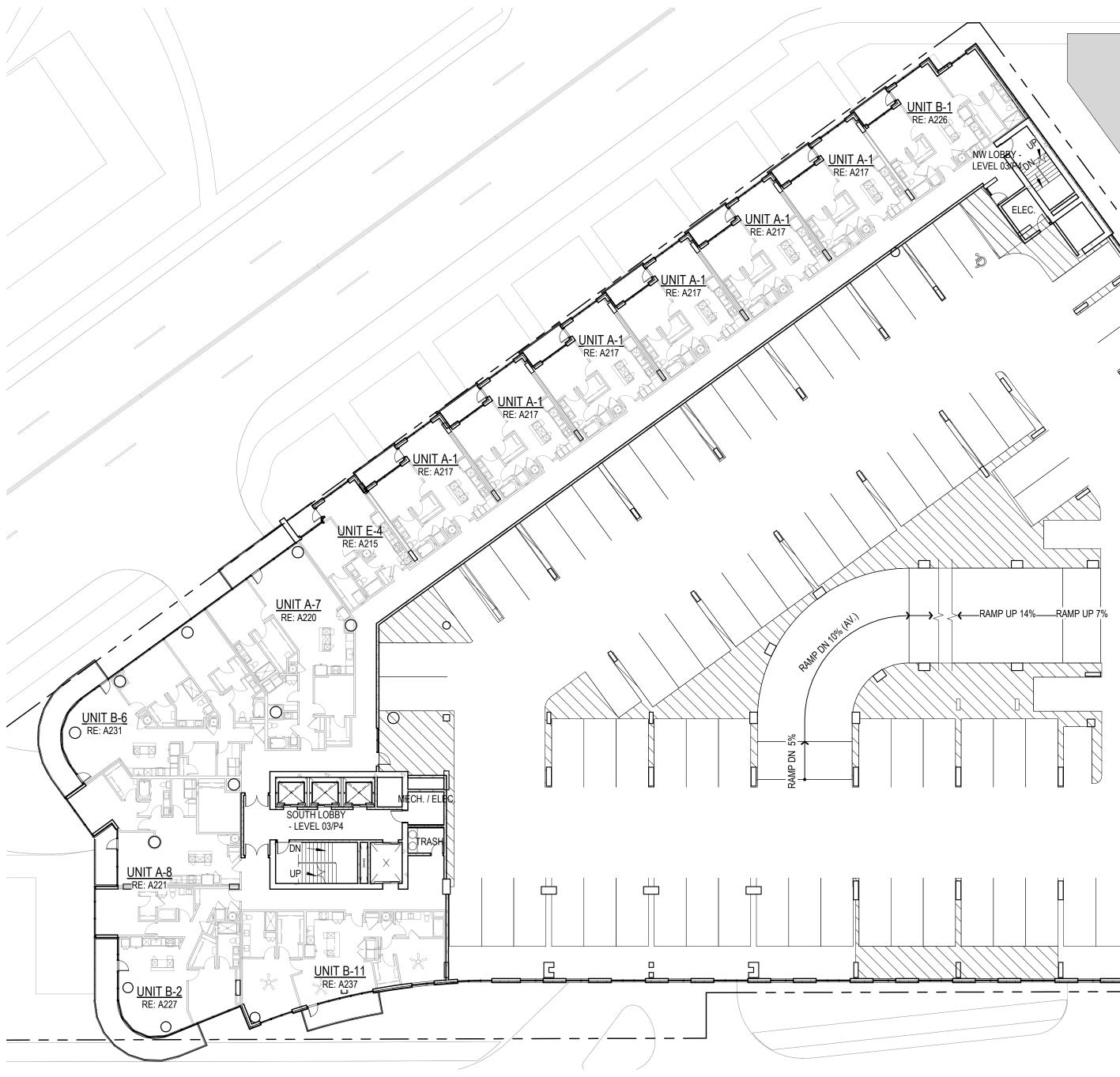
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LEVEL 03/P4 1" = 20'-0"



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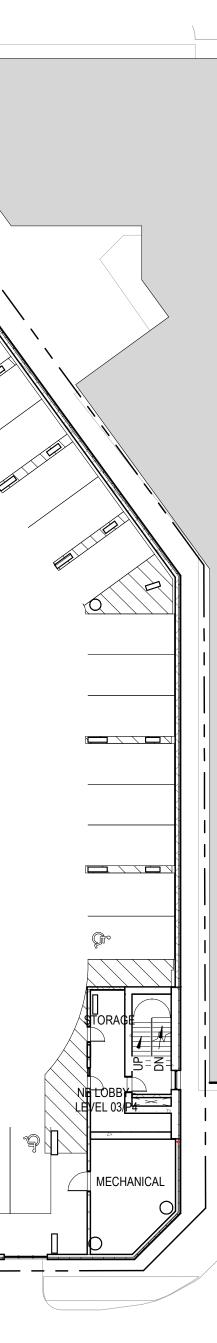
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A4-14

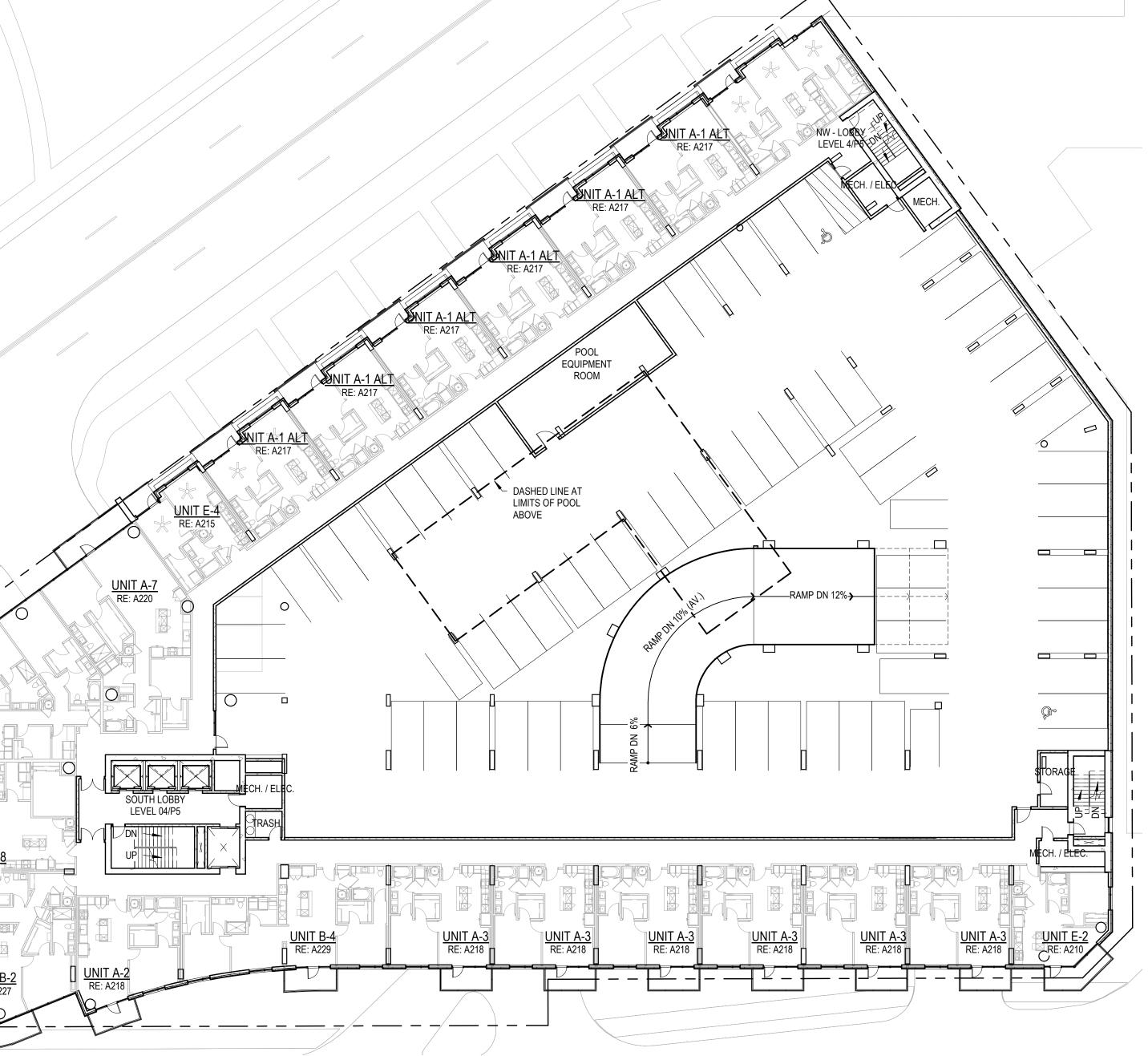


AREA - LEVEL 03 / P4 Name Area		
Circulation	4,444	
Leasable Storage	216	
Opperations	308	
Parking Area	36,170	
Grand total	53,722	

PARKING - LEVE	EL 03/P4	
Туре	Count	
7'-6"x15'-0"	3	
8'-6"x18'	69	
9'-0"x18'	14	
9'-0"x18'-0" Handicap	2	
Total	88	

/

LEVEL 04/P5 1" = 20'-0"





REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

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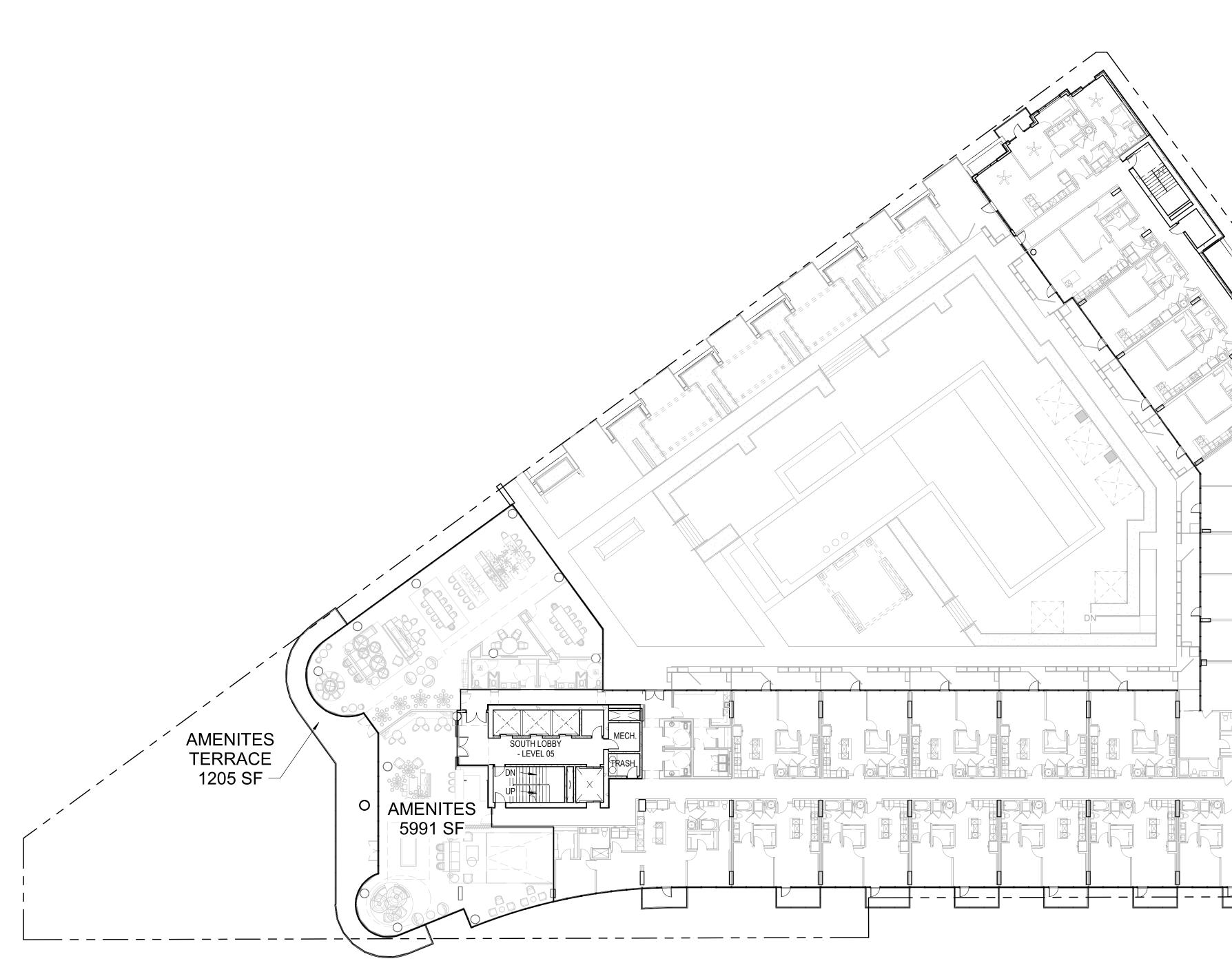


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Name	Area
Apartment	18,082
Circulation	5,720
Leasable Storage	221
Opperations	440
Parking Area	28,992
Grand total	53,455

PARKING - LEVEL 04/P5		
Туре	Count	
7'-6"x15'-0"	3	
8'-6"x18'	46	
9'-0"x18'	14	
9'-0"x18'-0" Handicap	2	
Total	65	



LEVEL 05 1" = 20'-0"



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THE MADISON

Prepared For

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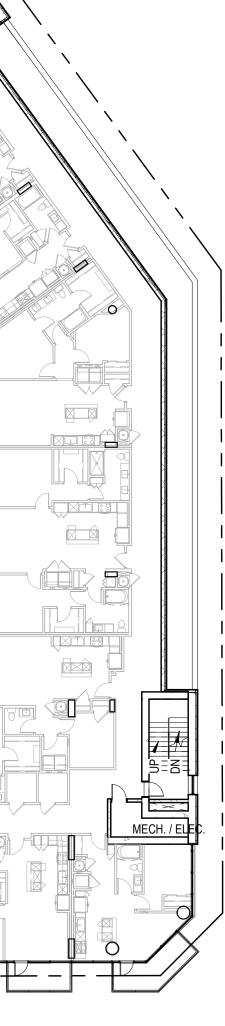
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RESPONSE TO DISPOSITION12.29.20CITY PLANNING RESUBMITTAL04.21.20	16
CITY PLANNING RESUBMITTAL 04.21.20	16
	16
	16
CITY PLANNING RESUBMITTAL 12.01.20	21
CITY PLANNING RESUBMITTAL 12.17.20	21

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Project No: 17.70020.00





AREA - LEVEL 05		
Name Area		
Amenities	6,924	
Apartment	17,155	
Circulation	5,196	
Exterior Amenity	22,852	
Leasable Storage	86	
Opperations	550	
Grand total	52,764	

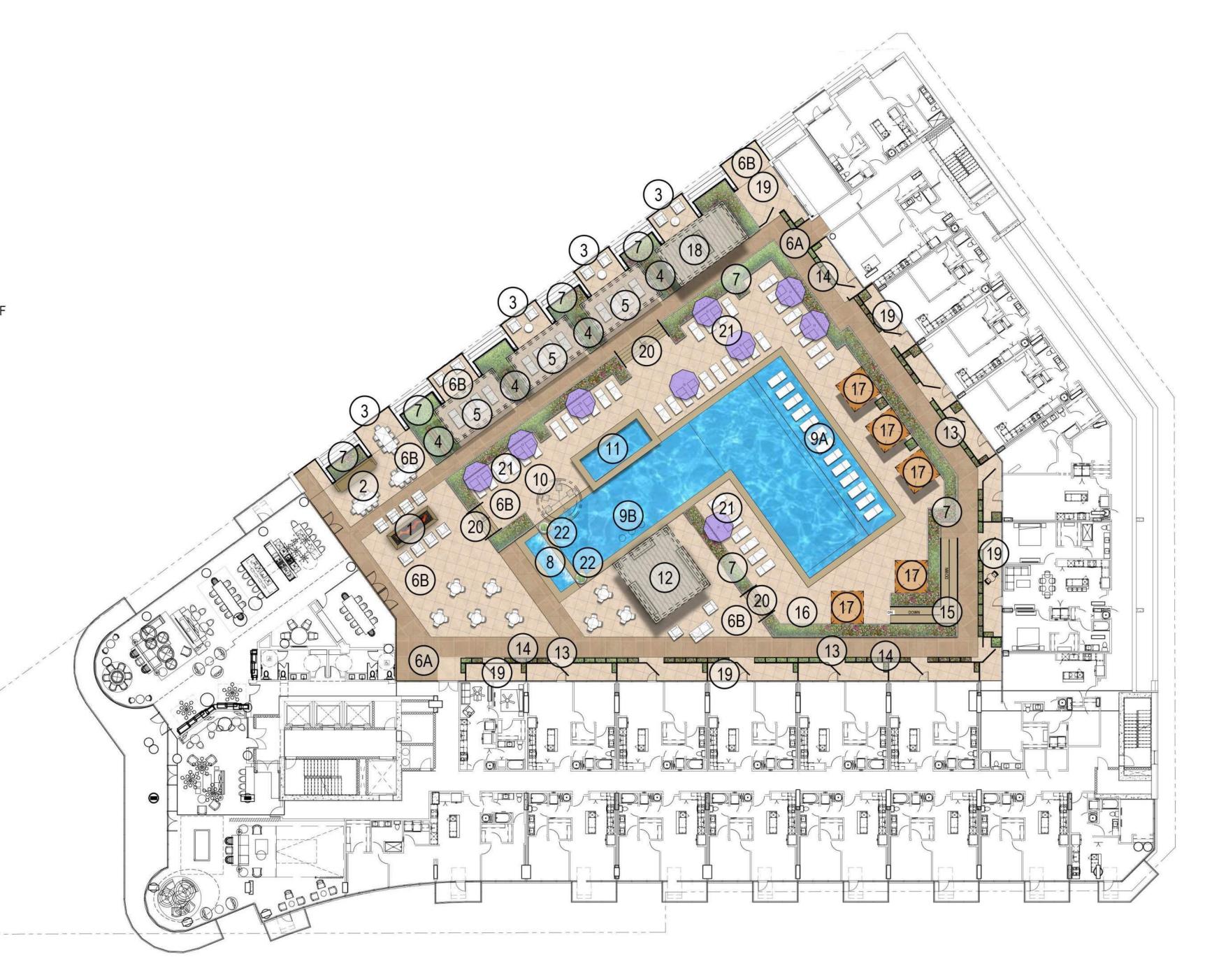
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SITE AMENITIES:

- 1. FIRE PIT
- 2. OUTDOOR DINING AREA BAR
- 3. GLASS RAILING (4'-6" HT.) PATIO & OVERLOOK
- 4. TV / SCREEN WALL
- 5. TREX PERGOLA BALANCE STRUCTURE (FABRIC) W/ SEATING, LIGHTING, TV, & HEATERS
- 6. PAVERS ON PEDESTALS (ALL POOL AREAS) 6A. PAVER TYPE A 6B. PAVER TYPE B
- 7. METAL PLANTERS
- 8. WATER FEATURE W/ DECORATIVE SCUPPERS
- 9. POOL 2,889 SF 9A. SHALLOW LEDGE W/ LOUNGERS - 9" DEPTH 9B. SWIM-UP SEATING - 30" DEPTH
- 10. ADA LIFT
- 11. SPA 180 SF
- 12. LOUVERED STRUCTURE BAR AREA
- 13. POOL ENCLOSURE GLASS FENCE (4'-6" HT.) W/ SELF CLOSING / SELF LATCHING GATES
- 14. MODULAR PLANTERS
- 15. ADA RAMP
- 16. OUTDOOR SHOWER
- 17. DAYBEDS (5 TOTAL)
- 18. LOUVERED STRUCTURE GRILL AREA
- 19. UNIT PATIO PAVERS ON PEDESTALS
- 20. STAIRS
- 21. CHAIRS & UMBRELLAS FFE BY OWNER
- 22. POOL PLANTERS

*SEE SITE AMENITY SPEC BOOK FOR ADDITIONAL DETAILS.



1"=20'-0"



REAL ESTATE SERVICES, LLC Project

THE MADISON

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POOL COURTYARD

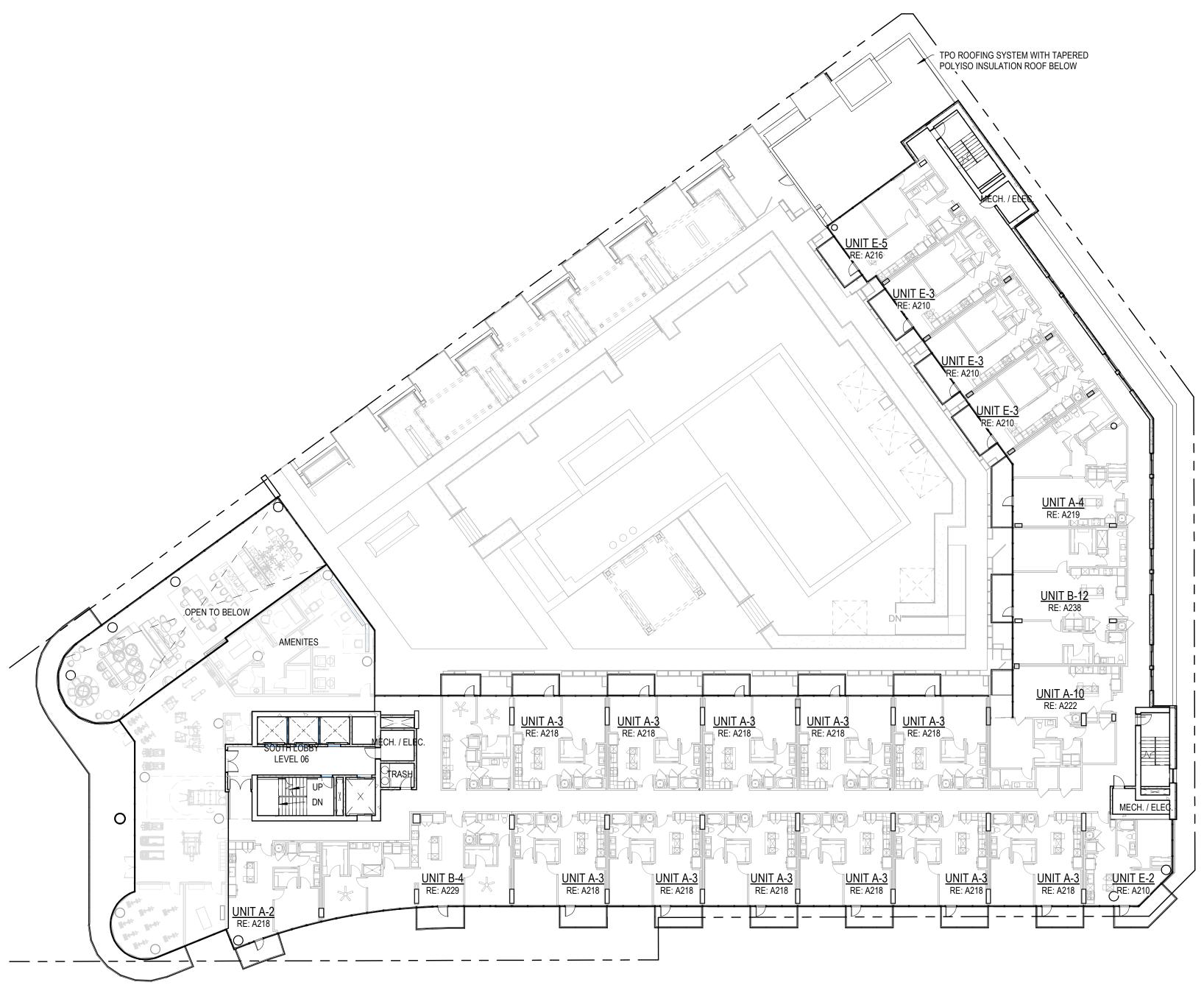
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SITE PLAN



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LEVEL 06 1" = 20'-0"





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A4-17



Name	Area
Apartment	23,063
Circulation	5,136
Leasable Storage	86
Opperations	571
Grand total	28,856

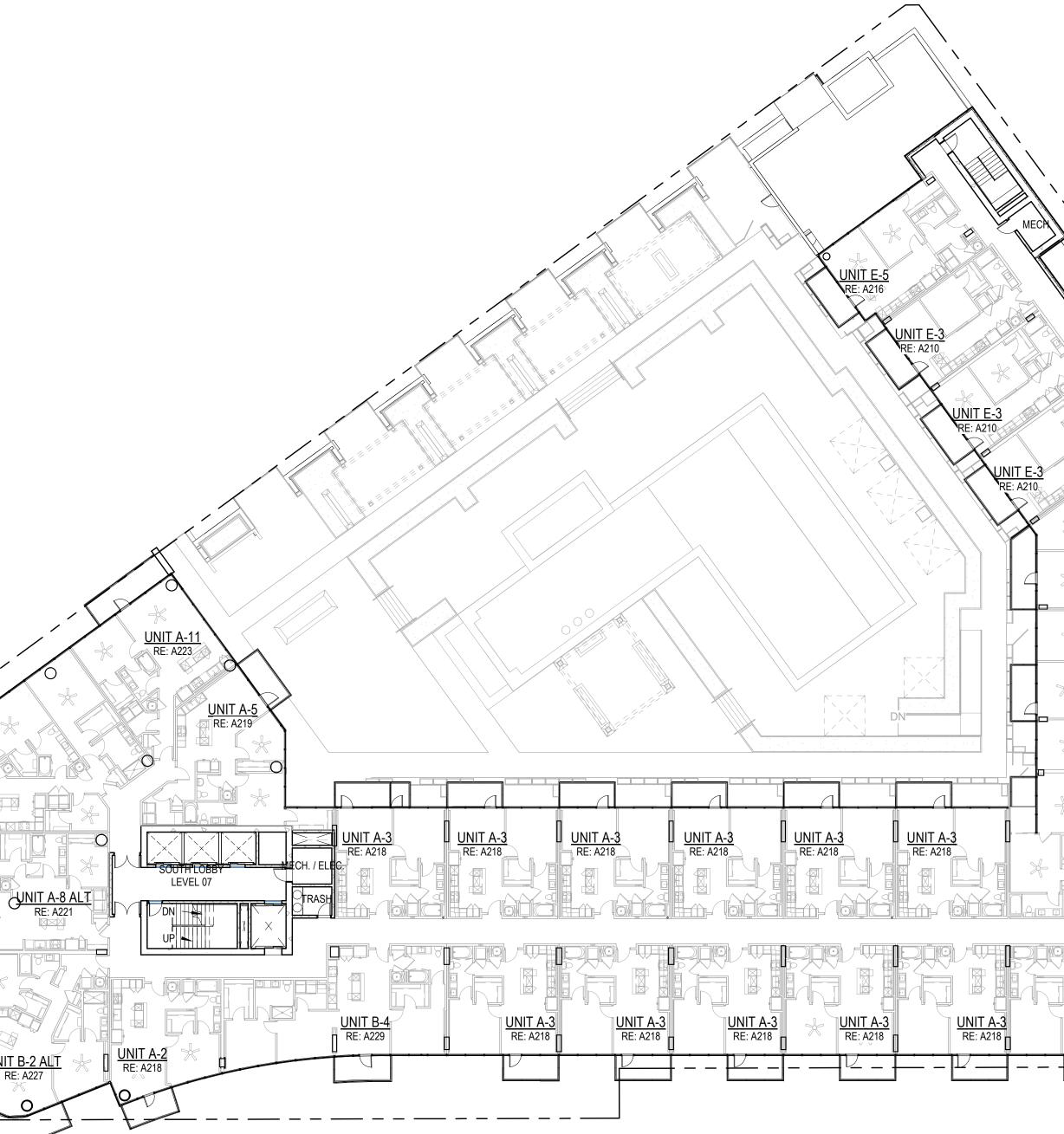
AREA - LEVEL 06

UNIT A-4
UNIT B-12 RE: A238
UNIT A-10 RE: A222
UNIT A-3 RE: A218
RE: A218 CRE: A210

UNIT B-6 ALT RE: A232

/

LEVEL 07 1" = 20'-0"





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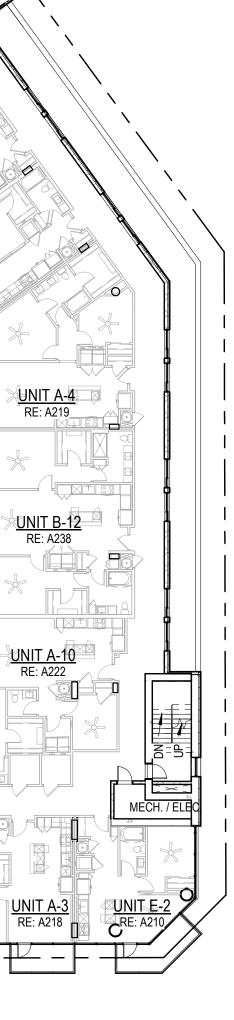
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Project No: 17.70020.00



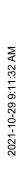
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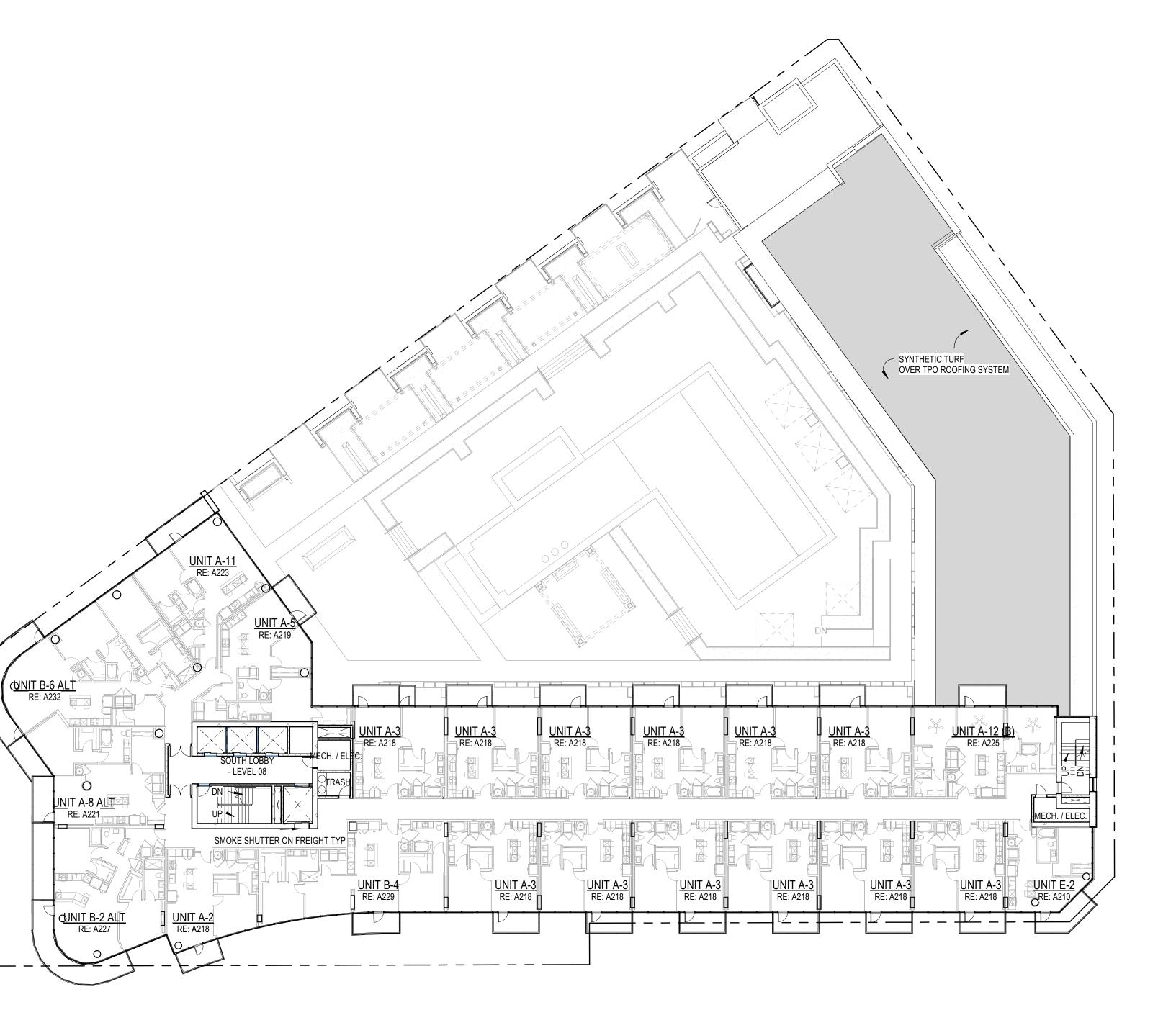
AREA - LEVEL 07		
Area		
23,063		
5,136		
86		
571		
28,856		

A4-18





REFERENCE PLAN - LEVEL 08 - 09





REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



Hellmuth, Obata & Kassabaum, Inc. 300 West 22nd Street Kansas City, MO 64108 USA

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Overland Park, KS 66210 p. (913) 722.3473 United Spinal Association ADA Consultant 120-34 Queens Blvd. Ste. 320 Kew Gardens, New York 11415 p. (718) 803.3782

Studio 08 Consultants Door Hardware 5600 W 95th St. Ste. 216 Overland Park, KS 66210 p. (816) 389.8624

Lightworks Specialty Lighting 361 B Main Weston, MO 64098 p. (816) 640.9948 Walker Parking Parking Consultant 505 Davis Road Elgin, IL 60123 p. (847) 710.3223

Lerch Bates Elevator Consultant 9780 S. Meridian Blvd, Ste. 450 Englewood, CO 80112 p. (303) 723.7978

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Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218 p. (913) 400.3694

No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
	CITY PLANNING RESUBMITTAL	12.01.2021
	CITY PLANNING RESUBMITTAL	12.17.2021

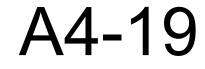
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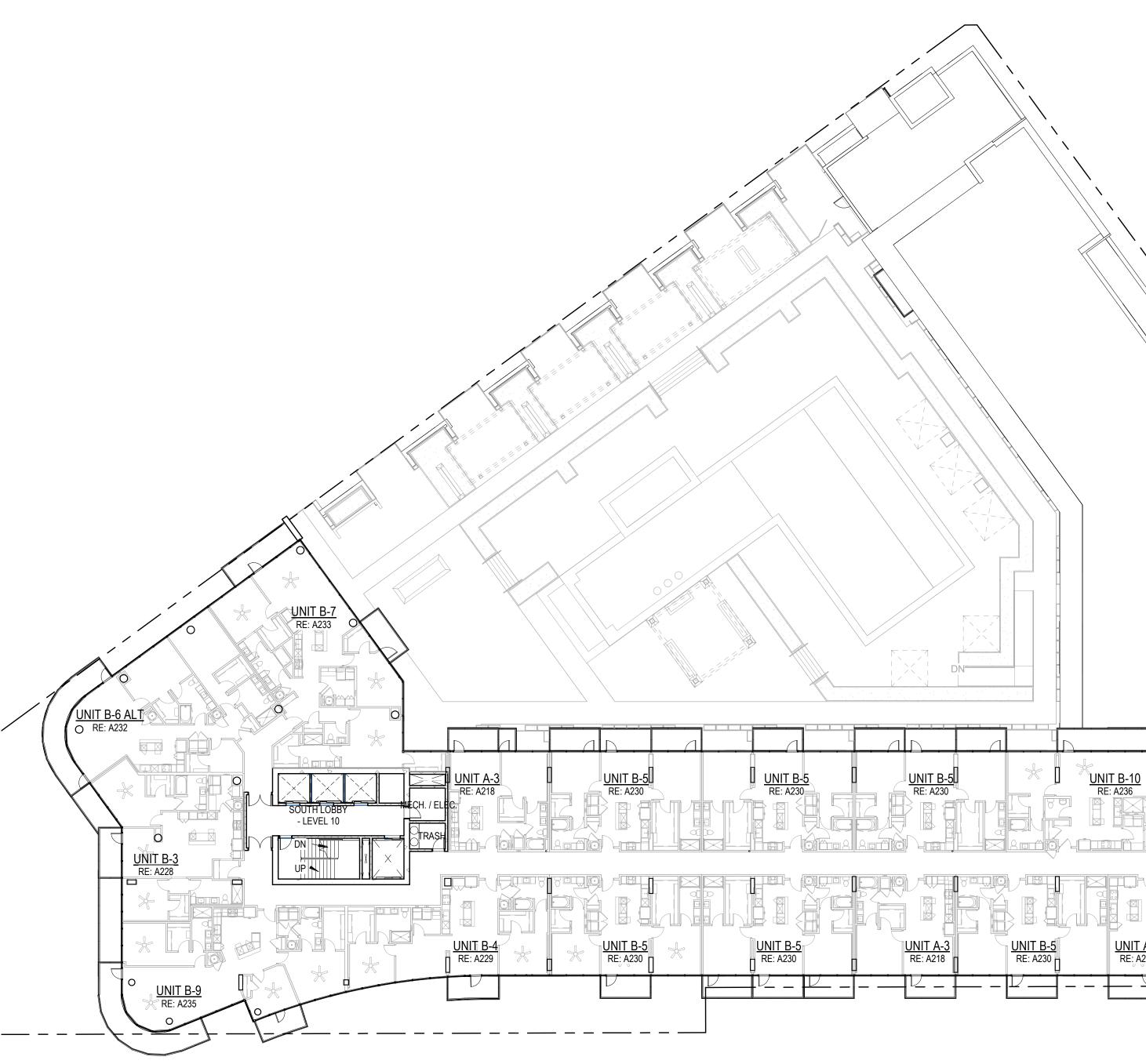
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AREA - LEVEL 08-9 (TYP)		
Name	Area	
Apartment	18,035	
Circulation	3,373	
Opperations	441	
Grand total	21,849	





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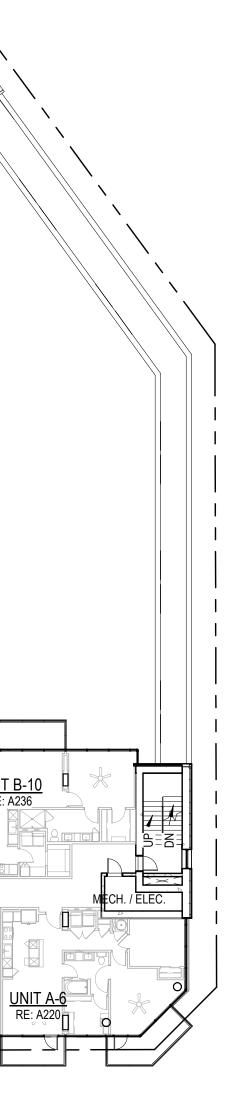
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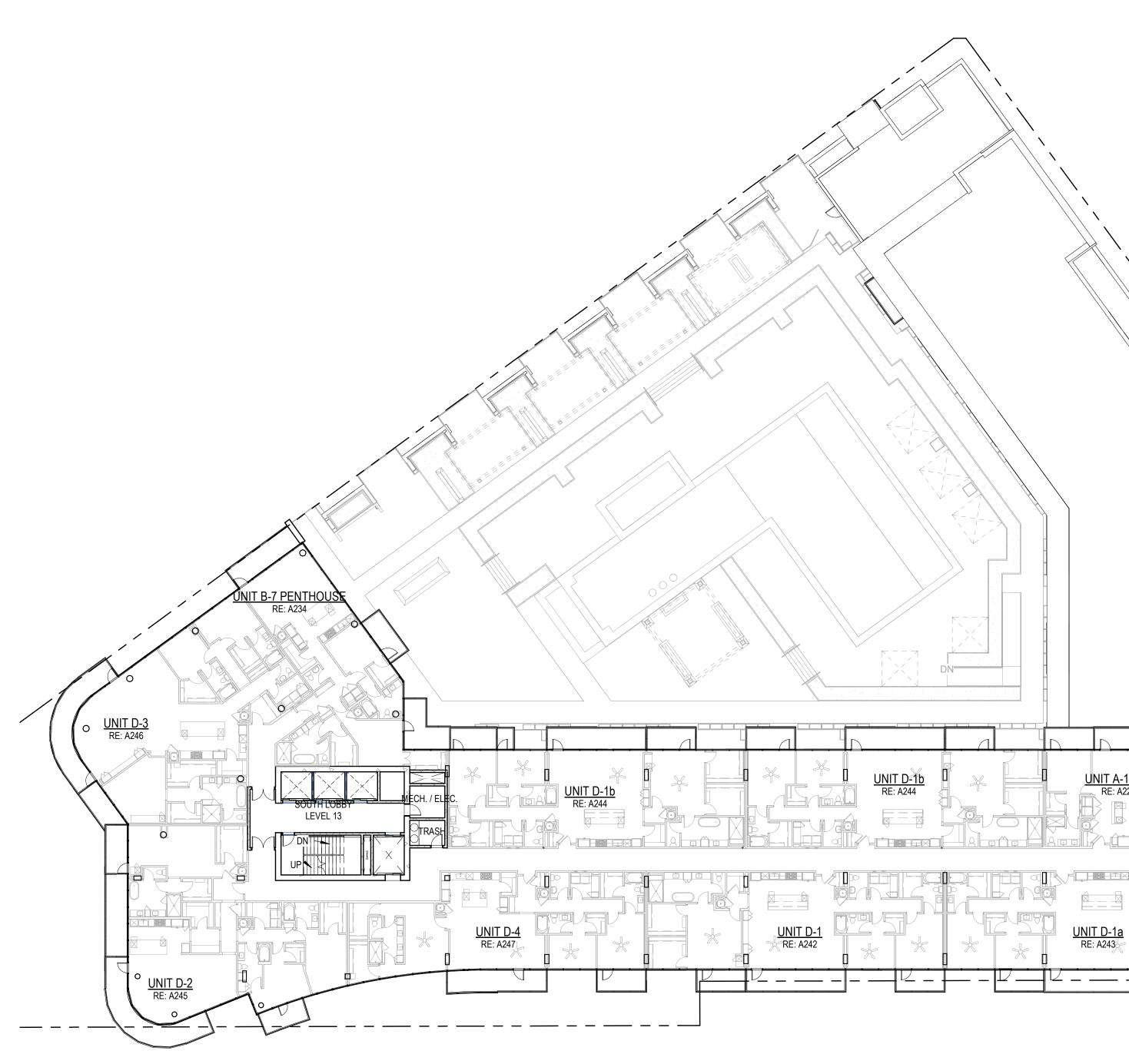


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A4-20



Name	Area
Apartment	18,032
Circulation	3,333
Opperations	484
Grand total	21,849



LEVEL 13 - 15 1" = 20'-0"



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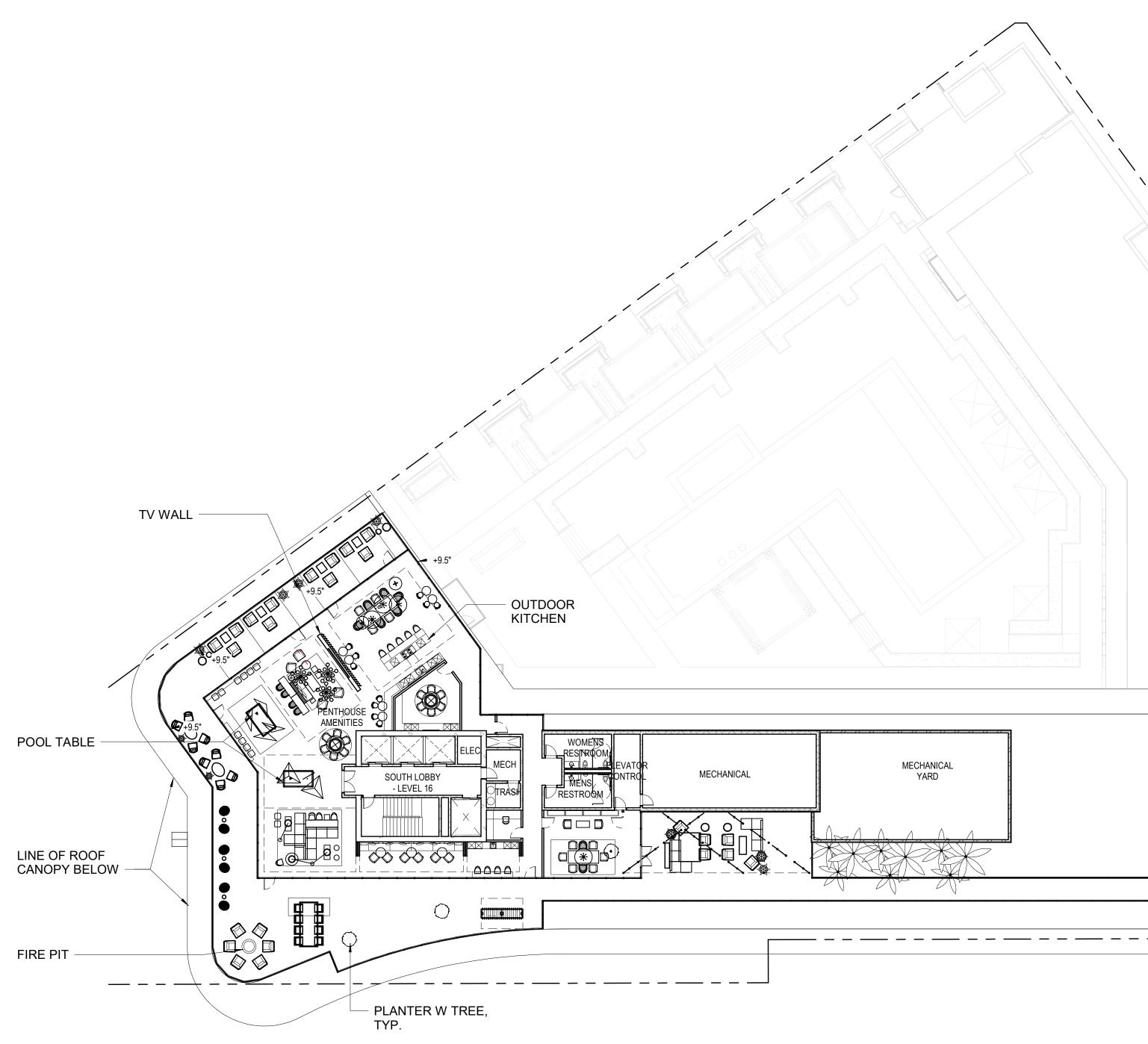


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UNIT A-12 (B) RE: A225 <u>to E</u> CH. / ELEC.

Name	Area
Apartment	18,032
Circulation	3,333
Opperations	484
Grand total	21,849

A4-21



LEVEL 16 - ROOF PLAN



REAL ESTATE SERVICES, LLC Project

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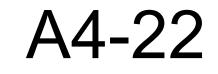
Project No: 17.70020.00

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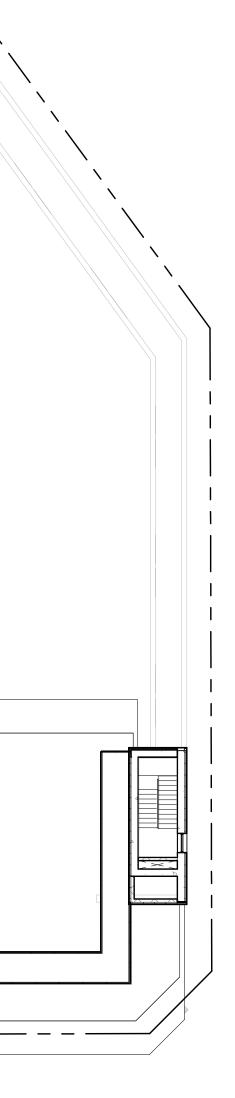
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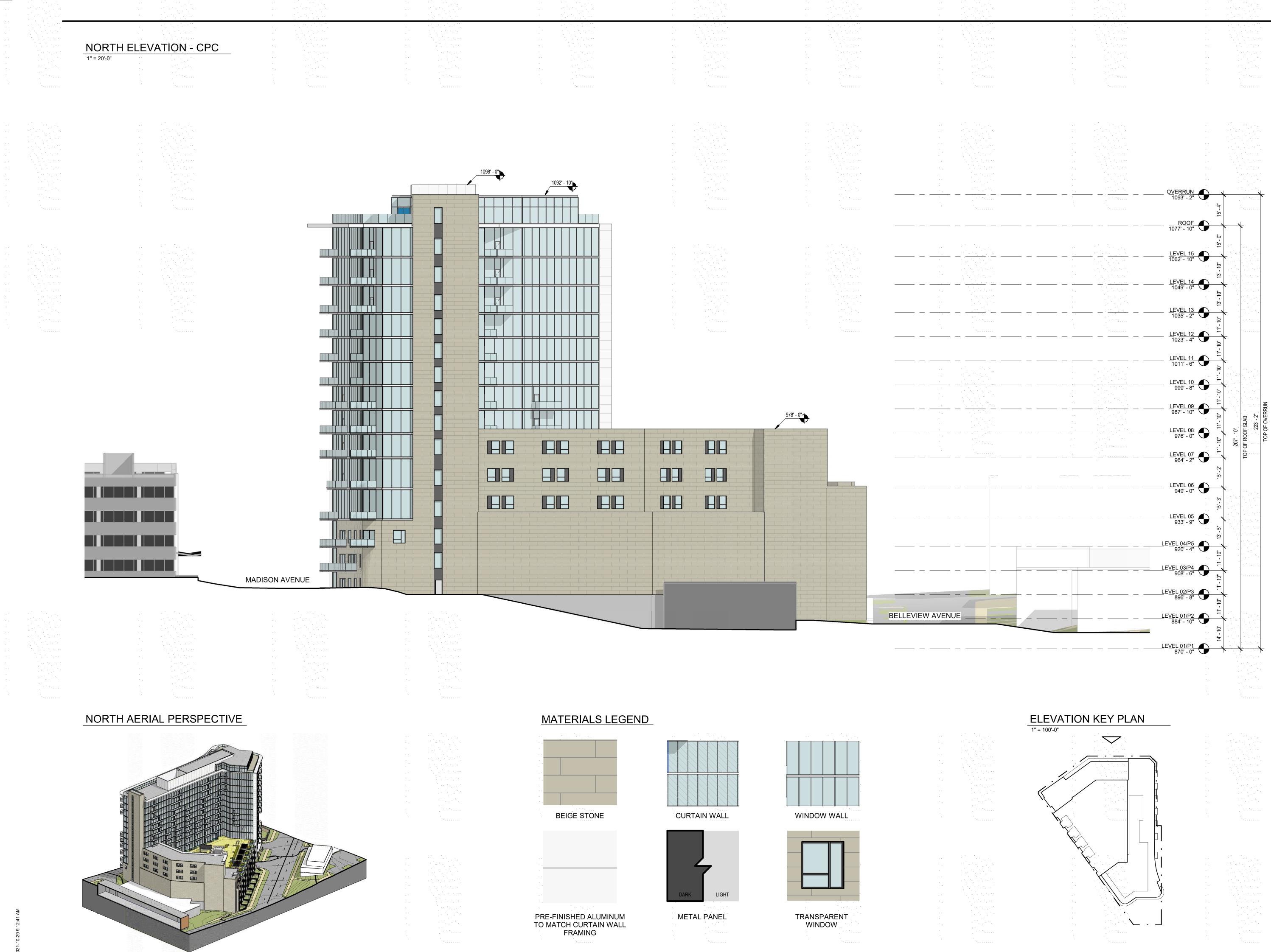
ROOF LEVEL

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AREA - ROOF		
Name	Area	
Amenities	5,014	
Circulation	1,396	
Exterior Amenity	4,389	
Opperations	2,096	
Grand total	12,895	







REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



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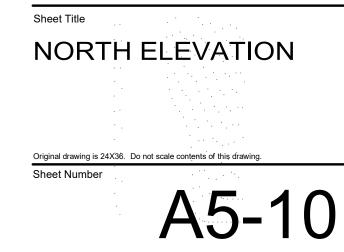
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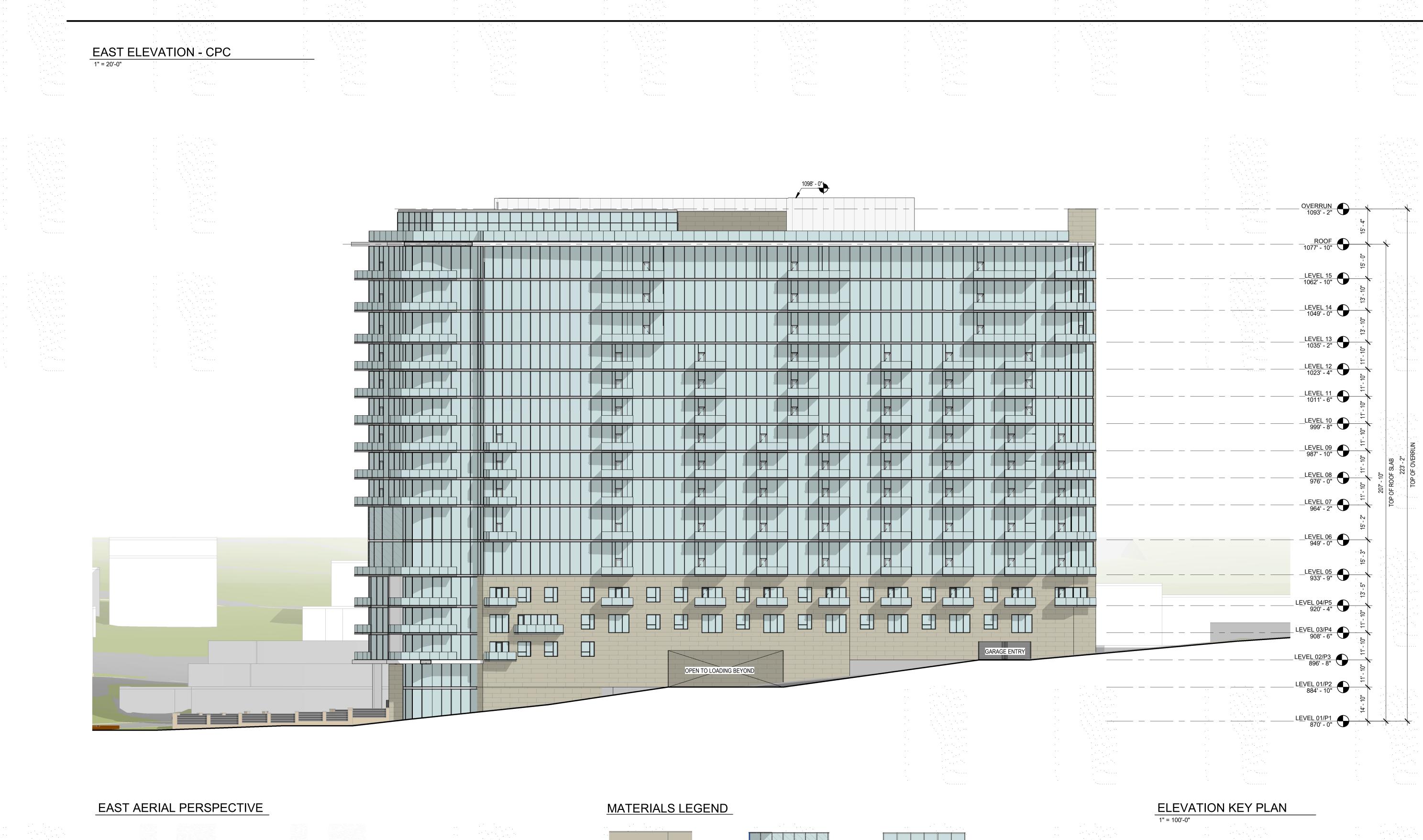
Shawnee, KS 66218 p. (913) 400.3694

. (313) 400.3034			
No.	Description		Date
	CITY PLANNI	NG SUBMITTAL	11.09.2016
	CITY PLANNI	NG RESUBMITTAL	12.15.2016

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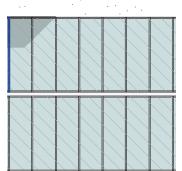




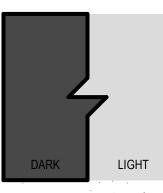




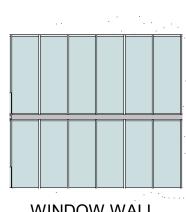
PRE-FINISHED ALUMINUM TO MATCH CURTAIN WALL FRAMING



CURTAIN WALL



METAL PANEL



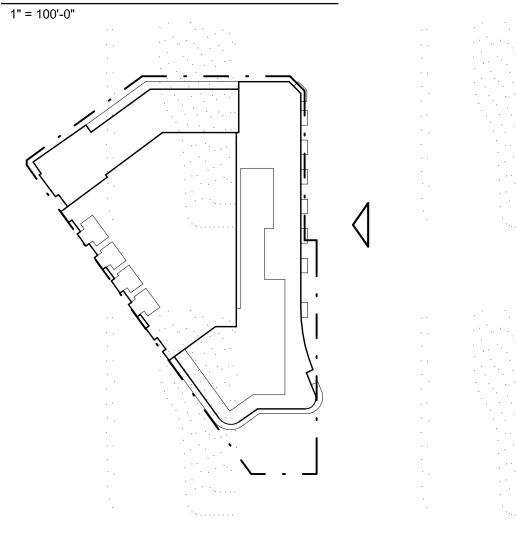
WINDOW WALL



TRANSPARENT WINDOW

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REAL ESTATE SERVICES, LLC Project

THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



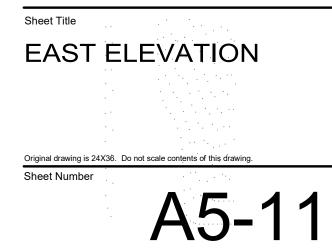
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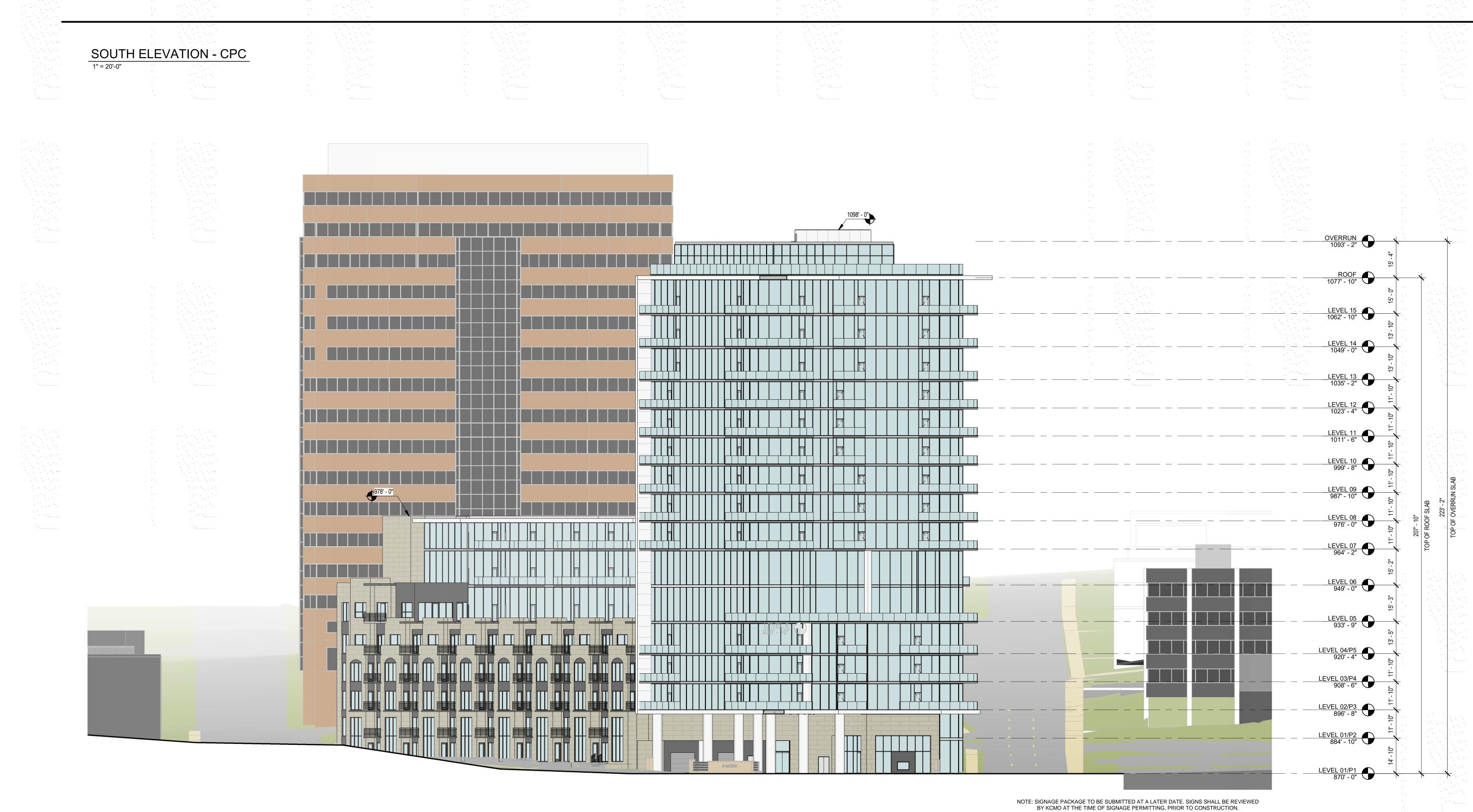
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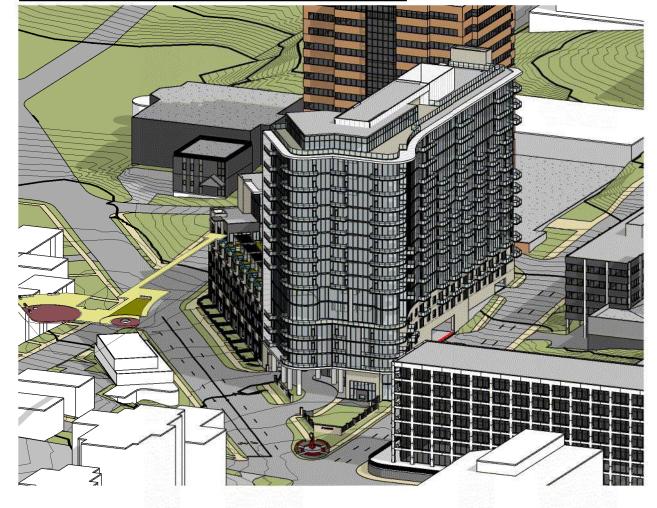
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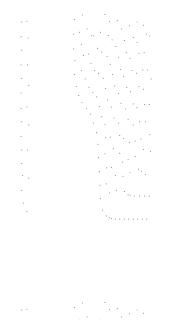
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SOUTH AERIAL PERSPECTIVE





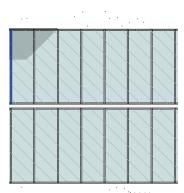


MATERIALS LEGEND

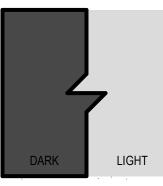




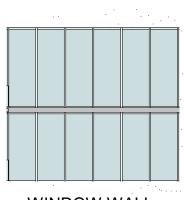
PRE-FINISHED ALUMINUM TO MATCH CURTAIN WALL FRAMING



CURTAIN WALL



METAL PANEL



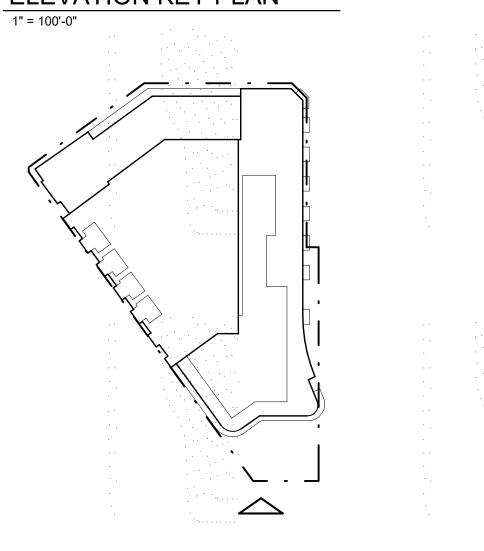
WINDOW WALL



TRANSPARENT WINDOW

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ELEVATION KEY PLAN





REAL ESTATE SERVICES, LLC Project

THE MADISON

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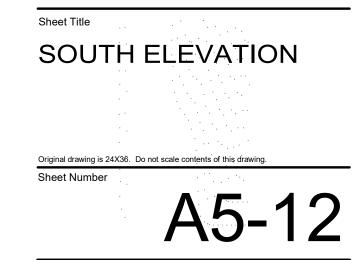
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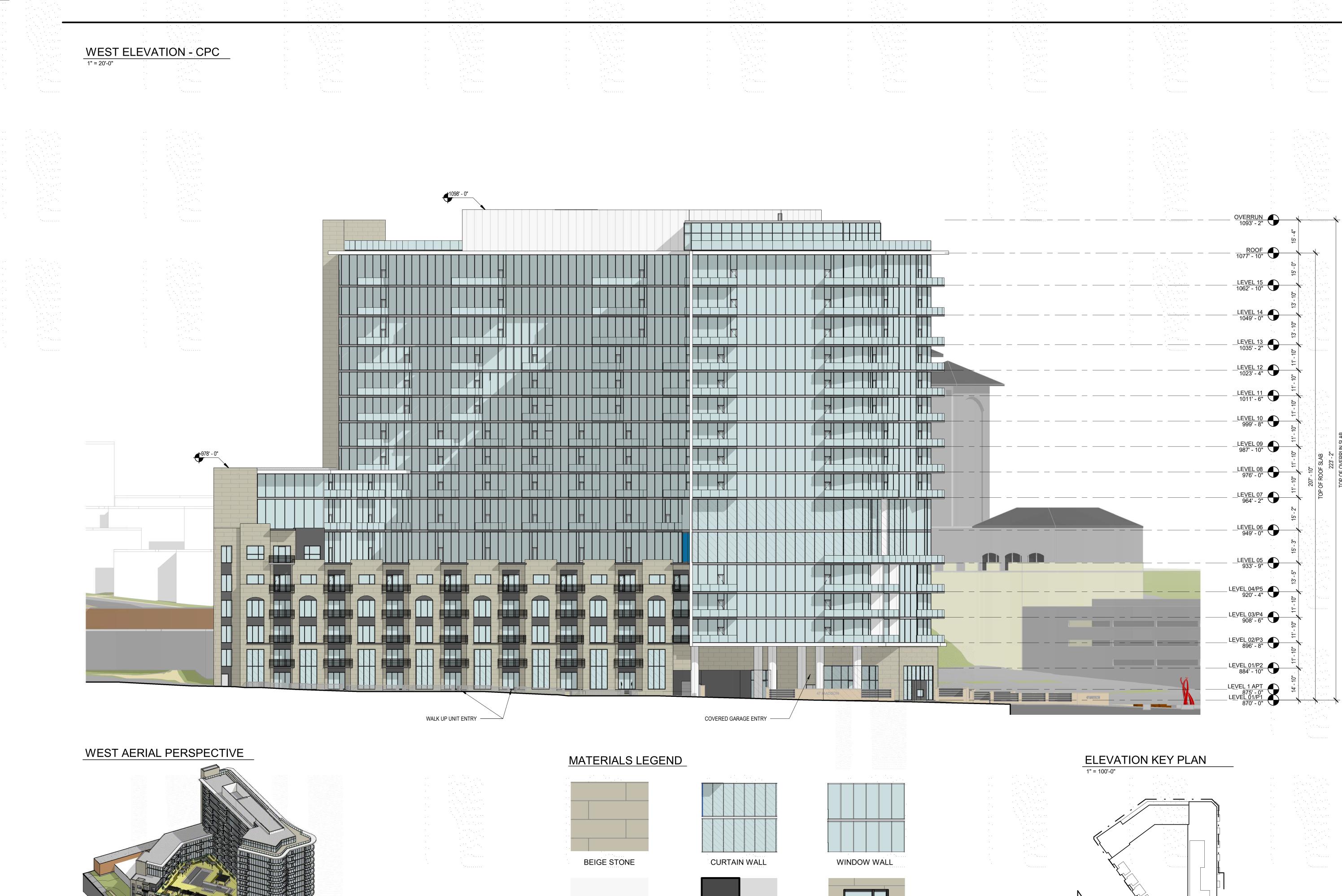
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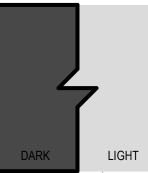








PRE-FINISHED ALUMINUM TO MATCH CURTAIN WALL FRAMING



METAL PANEL



TRANSPARENT WINDOW

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THE MADISON

Prepared For

Block Real Estate Services, LLC 4600 Plaza, LLC 4622 Pennsylvania Ave Suite 700, Kansas City, MO 64112



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Lerch Bates Elevator Consultant 9780 S. Meridian Blvd, Ste. 450 Englewood, CO 80112 p. (303) 723.7978

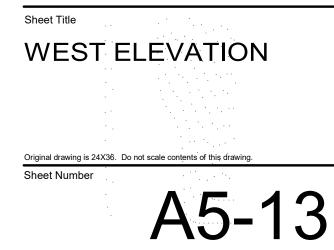
Cloward H20 Aquatic Design 2696 N University Ave, Ste. 290 Provo, UT 84604 p. (801) 375.1223 Heitman & Associates

Building Envelope Consultant 14500 S Outer Rd, Ste. 110 Chesterfield, MO 63017 p. (314) 439.1944

Acoustical Design Kubicki Acoustical Design Consultant 6351 Locust Street Shawnee, KS 66218 p. (913) 400.3694

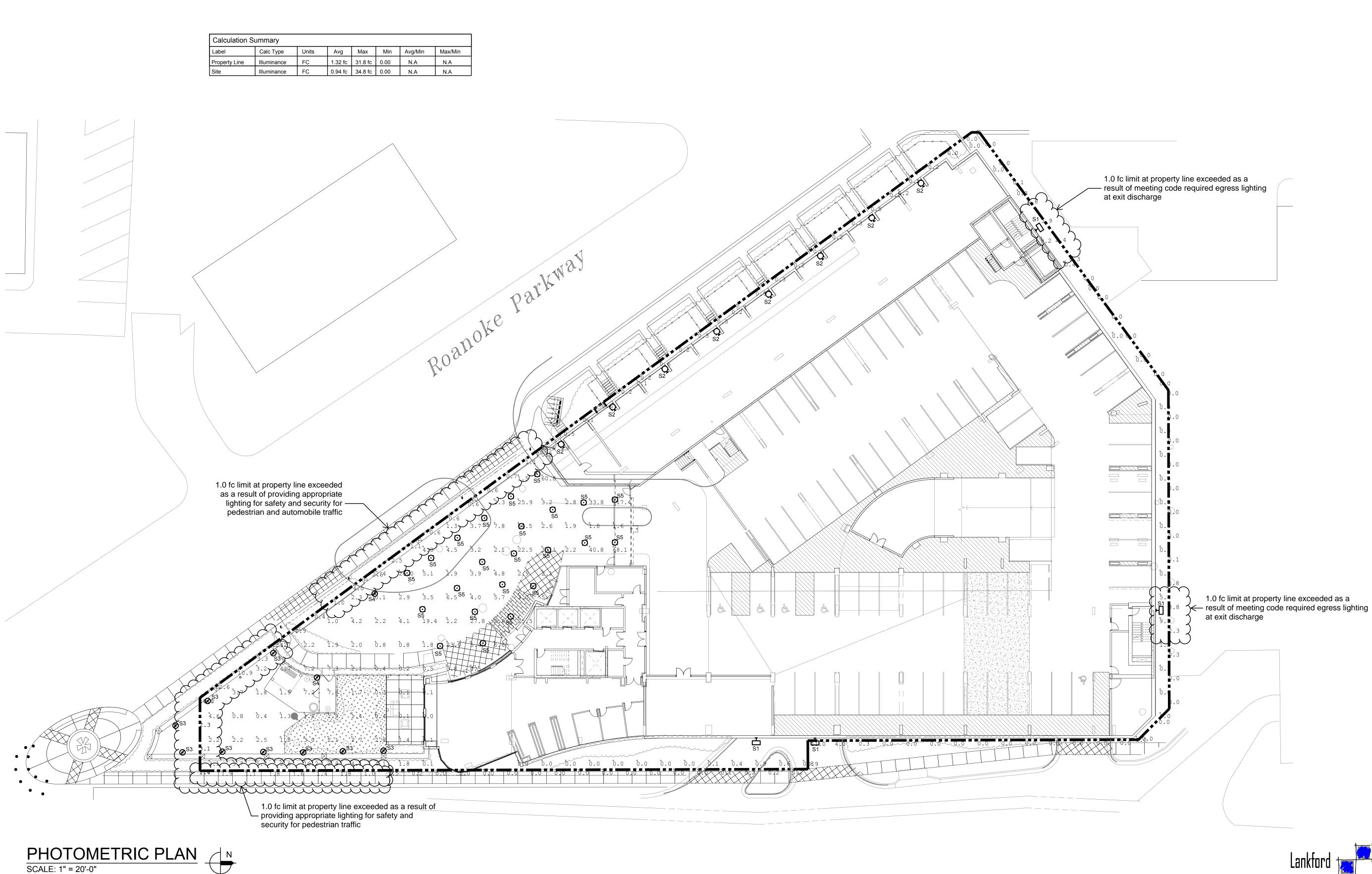
No.	Description	Date
	CITY PLANNING SUBMITTAL	11.09.2016
	CITY PLANNING RESUBMITTAL	12.15.2016
	RESPONSE TO DISPOSITION	12.29.2016
	CITY PLANNING RESUBMITTAL	04.21.2016
	CITY PLANNING RESUBMITTAL	12.01.2021
	CITY PLANNING RESUBMITTAL	12.17.2021

Issued For: CITY PLANNING RESUBMITTAL Issue Date: October 1, 2021



Symbol	Label	Qty	Arrangement	Total Luminire Lumens	LLF	Description
Ţ	S1	5	SINGLE	N.A.	0.900	Full Cut -Off Wall Sconce
Q	S2	9	SINGLE	N.A.	0.900	Decorative Direct / Indirect Wall Sconce
0	S3	10	SINGLE	N.A.	0.900	360 Degree Illuminated Bollard
0	S4	3	SINGLE	N.A.	0.900	12' Tall 360 Degree Illuminated Light Colum
Q	S5	23	SINGLE	N.A.	0.900	Recessed Downlight

Calculation Summary								
Label	Calc Type	Units	Avg	Max	Min	Avg/Min	Max/Min	
Property Line	Illuminance	FC	1.32 fc	31.8 fc	0.00	N.A	N.A	
Site	Illuminance	FC	0.94 fc	34.8 fc	0.00	N.A	N.A	



+ associates 1730 Walnut Street Kansas City, Missouri 64108 1915 Frederick Avenue, St. Joseph, Missouri 64501 Phone: 816.221.1411 | Fax: 816.221.1429 LANKFORD | FENDLER + ASSOCIATES, CONSULTING ENGINEERS, INC. COPYRIGHT 🔘 2021 Project No. 21.6849.00 COA No. 2006001168

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REAL ESTATE SERVICES, LLC Project

47 Madison Avenue

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Issue Date: October 1, 2021 Project No: 17.70020.00

Sheet Title PHOTOMETRIC PLAN

Original drawing is 24X36. Do not scale contents of this drawing.





To: Mr. Ken Block Block Real Estate Services 4622 Pennsylvania Ave, Suite 700 Kansas City, Missouri 64112 From: Matthew Parker, PE, PTOEDate: December 17, 2021Project No.: P101210384

Subject: The Madison Traffic Impact Study Addendum Kansas City, Missouri

Introduction

TranSystems has prepared the following supplemental analysis memorandum for the proposed changes to the previously approved Madison residential development, generally located in the northwest corner of Madison Avenue and Roanoke Parkway in Kansas City, Missouri. The purpose of this study is to evaluate traffic impacts due to changes in the development plan since its previous approval. This supplemental analysis has been conducted per discussions with the design team and city staff. The previously approved traffic impact study was dated March 2016 and titled 4600 Madison Traffic Impact Study.

Development Plan

The overall development plan is similar to the previously approved plan, and a graphic representation of the two is depicted on *Figure A-1*. The proposed land use is the same, a single multi-family residential building, with generally the same building footprint. The building height has been reduced from eighteen to fifteen floors with an enclosed rooftop space. The number of living units reduced from 288 to 238. The proposed site entrance onto Roanoke Parkway has also been modified to provide a separate one-way entrance to the drop-off circle drive outside the building lobby where there was previously one combined two-way entrance for the drop-off area and parking garage entry.

The two-way entrance has remained in the same location. The new one-way entrance is approximately 100' to the southeast along Roanoke Parkway; roughly half-way to the intersection with Madison Avenue and W 47th Street. The previously approved site plan had a 75' right-turn lane along Roanoke Parkway into the site entrance. The currently proposed plan has an extended continuous right-turn lane for both entrances with approximately 50' of full width turn lane in advance of the new one-way entrance.

Study Area

Because the overall site plan is similar to the previously approved plan and size of the proposed structure has been reduced, this analysis has been limited to the area affected by the change in site access along Roanoke Parkway. Study intersections include the following:

- Both site entrances along Roanoke Avenue
- W 47th Street and Madison Avenue/ Roanoke Parkway

Traffic Volumes

This analysis utilized traffic volumes from the 2016 study for the existing conditions, other developments, and future baseline volumes. No additional data collection or future projections were conducted.



Trip generation estimates for the proposed development were prepared using the Institute of Transportation Engineer's <u>Trip Generation</u>, I I th Edition. The previously approved development trips were computed prior to the new Edition being released; using the 9th Edition. The residential building was originally analyzed as apartments. In the I Ith Edition, multi-family housing is further sub-categorized to account for use variations. The currently proposed development was evaluated with the high rise multi-family housing land use. The 2016 study included a 305 living unit count, although the development plan only included 288 at the time of approval. For the purpose of comparison to the previous study the living unit count of 305 has been utilized. The expected trips generated by the previously approved development plan and the currently proposed development plan are shown in **Table 1**.

Table I Trip Generation Comparison									
Land Use Intensity ITE Average A.M. Peak Hour P.M. Peak Hour								lour	
Land Use	Intensity	Code	Weekday	Total	In	Out	Total	In	Out
Previous Traffic Impact Study - 2016 (9th Edition)									
Apartments	305 LU	220	1,972	153	31	123	185	121	65
Proposed Development Plan (11th Edition)									
Multifamily Housing (High Rise)	238 LU	222	I,272	71	24	47	85	48	37
Net Change in Development Trips -700 -82 -7 -76 -100 -73 -28									

The results in **Table 1** indicate that the proposed development plan is expected to generate 700 fewer daily trips, 82 fewer trips during the A.M. peak hour, and 100 fewer trips during the P.M. peak hour than the previously submitted traffic impact study. This equates to approximately one fewer trip every minute during the P.M. peak hour.

Traffic Operation Assessment

The distribution of site generated trips in the 2016 study were generally utilized for this analysis. The inbound rate of trips previously assigned to the site entrance along Roanoke Parkway was modified to relocate approximately 10% of those trips to the new one-way entrance to the southeast. The resulting updated lane configurations and traffic volume projections at the study locations are depicted on *Figure A-2* for the Existing plus Approved plus Proposed Development scenario in the A.M. and P.M. peak hours. Similarly, updated lane configurations and volume projections for the Future Year 2040 are depicted on *Figure A-3*.

Table 2 on the following page displays the Existing plus Approved Development conditions, Existing plus Approved plus Proposed Development conditions, and Future Year 2040 conditions scenario results. The results of the intersection analyses are also illustrated on *Figure A-4* and *Figure A-5*. The study intersections were evaluated with recommendations for lane reconfigurations noted in the previously approved study for scenarios with proposed development traffic.



Table 2 Intersection Operational Analysis												
	Existing + Approved Conditions			d	Existing + Approved + Proposed Development Conditions			Future Year 2040 Conditions				
	A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour		A.M. Peak Hour		P.M. Peak Hour	
Intersection Movement	LOS [⊥]	Delay ²	LOS	Delay ²	LOS	Delay ²	LOS	Delay ²	LOS	Delay ²	LOS ¹	Delay ²
47 th St and Madison / Roanoke Traffic Signal	с	26.5	D	45.8	с	23.9	с	31.5	D	37.4	с	33.2
Roanoke and Site Drive I Eastbound Left-Turn Southbound					A B	7.8 10.8	A B	8.4 3.0	A B	7.8 .	A B	8.5 13.6
Roanoke and Site Drive 2 Eastbound Left-Turn					А	7.7	A	8.4	A	7.8	A	8.5

I – Level of Service

2 – Delay in seconds per vehicle

The results shown in **Table 2** indicate that the study intersections are expected to continue operating at an acceptable level of service (LOS) during both peak hours. **Figures A-4** and **A-5** include the expected LOS and 95th-percentile queue lengths for the study intersections.

The currently proposed development plan was also evaluated for vehicle queuing and the potential for grid-lock associated with the site entrances and the intersection of W 47th Street with Madison Avenue/ Roanoke Parkway. Both left-turn movements from Roanoke Parkway into the site are expected to operate at LOS A and have a 95th-percentile queue of one vehicle for all scenarios. The site exit movement onto Roanoke Parkway is expected to operate at LOS B and have a 95th-percentile queue of one vehicle for all scenarios. The site exit movement onto Roanoke Parkway is expected to operate at LOS B and have a 95th-percentile queue of one vehicle for all scenarios. The throat length provided at the site exit onto Roanoke Parkway to the drop-off circle is approximately 25 feet, or about one passenger vehicle length. Furthermore, the previous study determined that the maximum service rate for the garage exit gate is approximately 600 vehicles per hour. Therefore, it is not expected that on-site grid-lock will be commonly experienced between the two site entrances onto Roanoke Parkway.

The 95th-percentile vehicle queues for the southbound left-turn along Roanoke Parkway at W 47th Street are expected to be up to 285 feet during the A.M. peak hour and 244 feet during the P.M. peak hour for the Existing plus Approved plus Proposed Development conditions. Likewise, the 95th-percentile vehicle queues for the same movement are expected to be up to 327 feet during the A.M. peak hour for the Future Year 2040 conditions. Approximately 200 feet of vehicle storage is provided along Roanoke Parkway between the W 47th Street intersection and the two-way site entrance. Therefore, it is expected that this southeast left turn queue will occasionally extend beyond both site entrances. There may be times that a southeast bound motorist along Roanoke attempting to turn left into the site may experience additional delay waiting in the queue for W 47th Street. However, the left-turning volumes into the site are expected to be low with LOS B, so it is not expected



to significantly affect operations of the traffic signal at W 47th Street. It should also be noted that this would also be true with the previously approved development plan and is slightly improved with the reduction in site traffic volumes.

Summary

The revised development plan is expected to reduce, compared to the previously approved plan, site generated traffic by 700 daily trips, 82 trips during the A.M. peak hour, and 100 trips during the P.M. peak hour. The study intersections are still expected to operate at acceptable levels of service. Although some additional delay may occasionally be experienced for southeast bound vehicles along Roanoke Parkway turning left into the site due to queueing at W 47th Street, it is not expected to adversely affect that movement or result in gridlock. Likewise, the on-site exiting traffic is not expected to experience queuing that would result in gridlock with the circle drive.



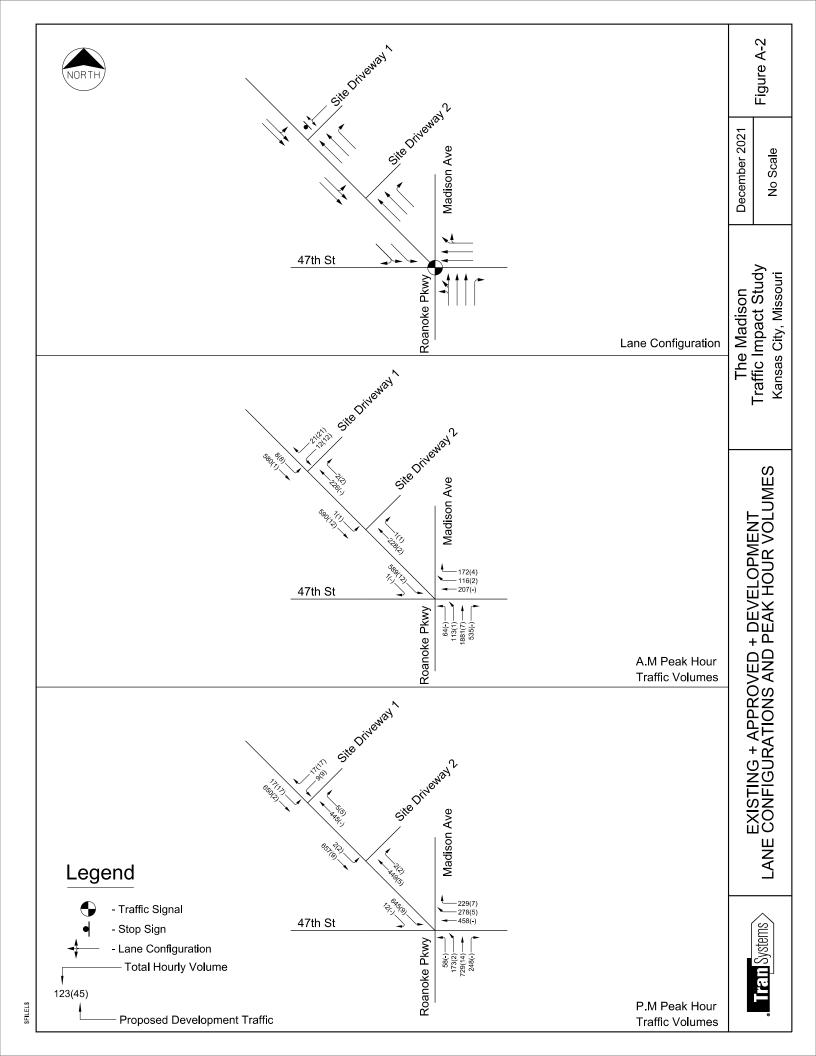


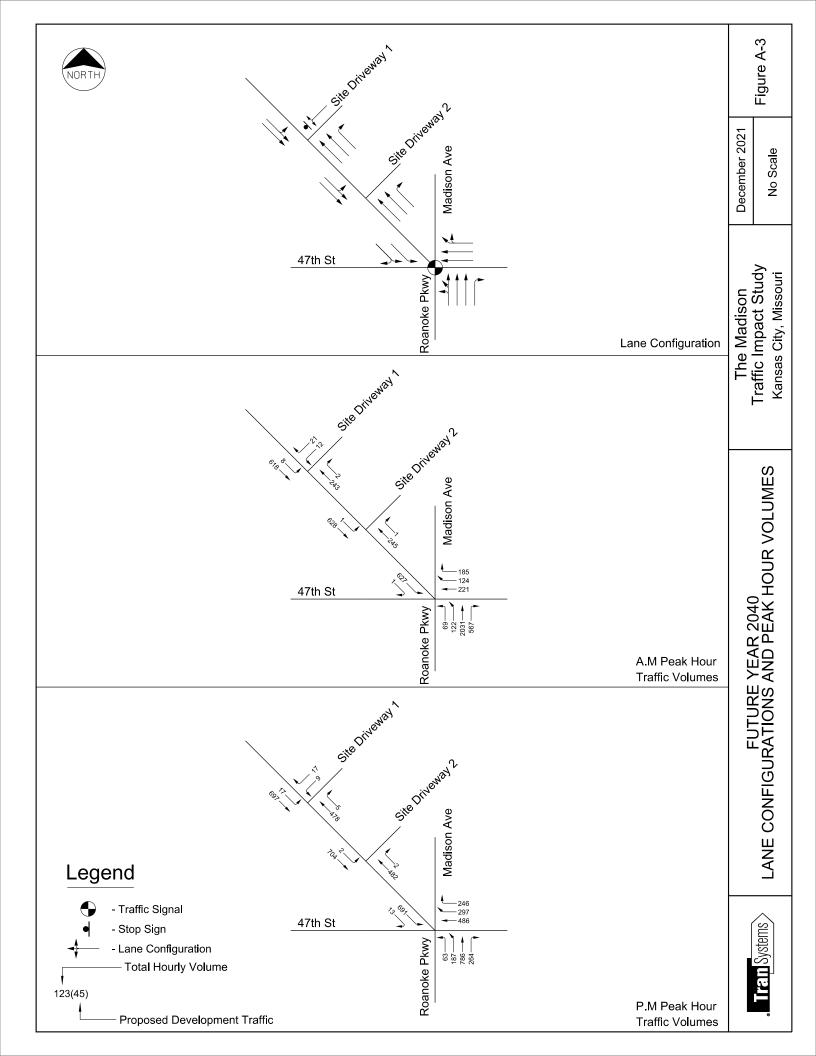
Appendix A - Figures

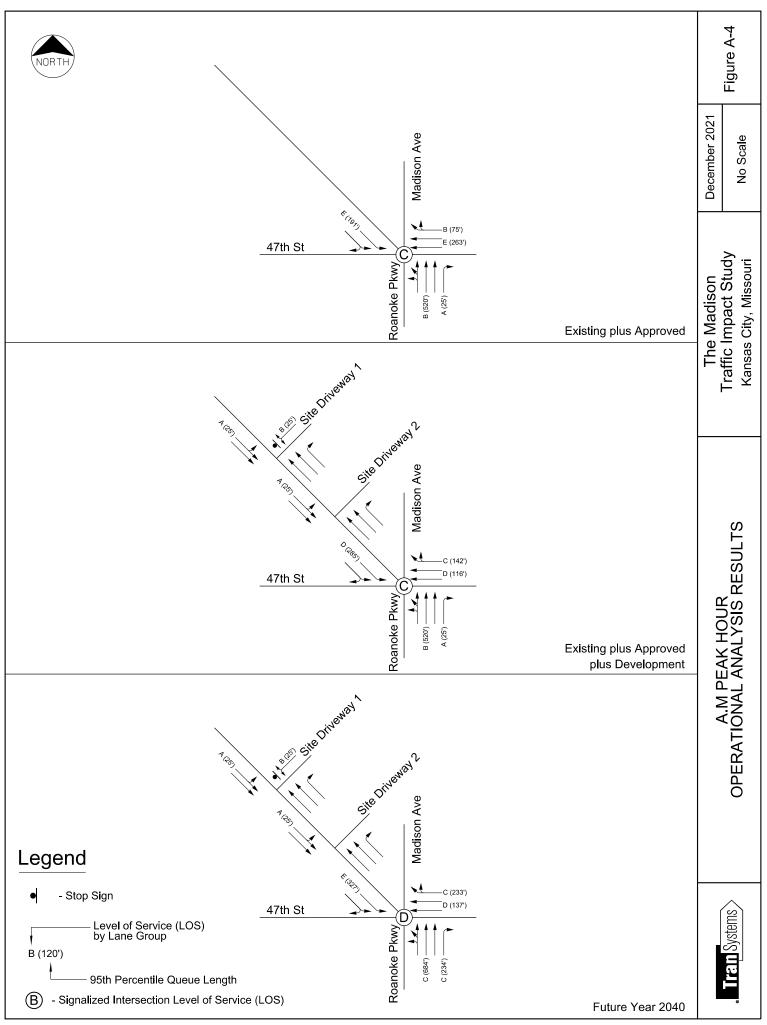
Figure A-I	Site Plan
Figure A-2	Existing plus Approved plus Development Lane Configurations and Peak Hour Traffic Volumes
Figure A-3	Future Year 2040 Lane Configurations and Peak Hour Traffic Volumes
Figure A-4	A.M. Peak Hour Operational Analysis Results
Figure A-5	P.M. Peak Hour Operational Analysis Results

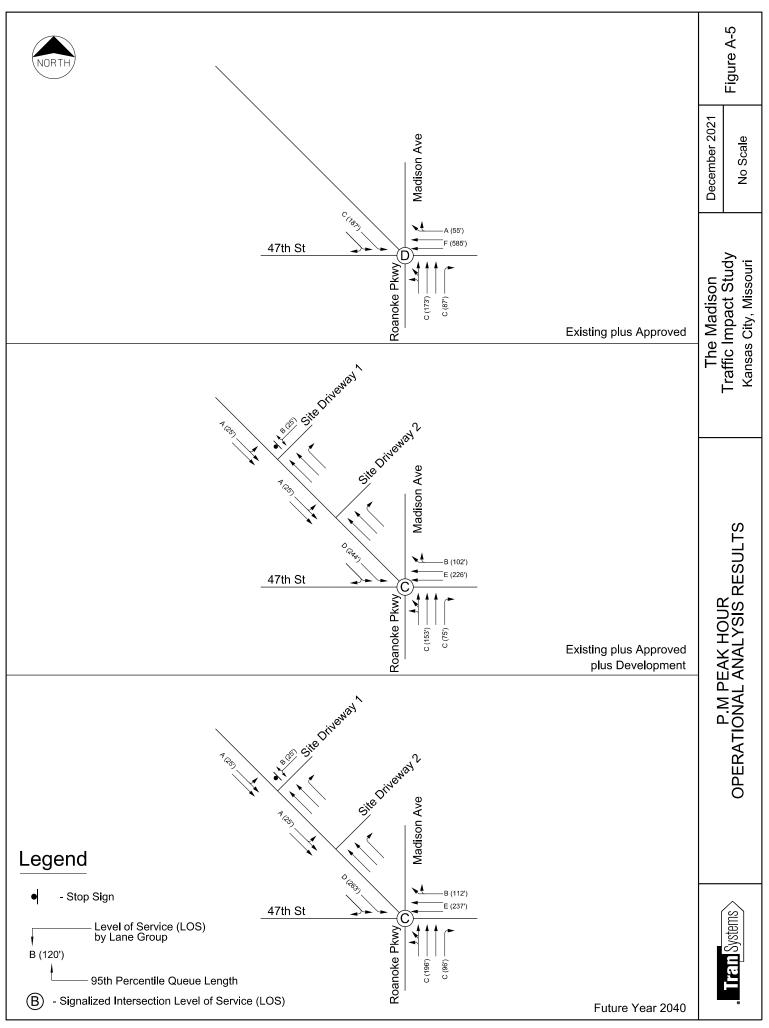














Appendix B - Trip Generation and Distribution

See attached worksheets.

The Madison TIS Kansas City, Missouri Trip Generation

		ITE			A.M.	Peak Hou	ır			P.M.	Peak Hou	r	
Land Use	Intensity	Code	Daily	Total	% In	% Out	In	Out	Total	% In	% Out	In	Out
Proposed Development													
Multi-Family Housing (High Rise)	238 du	222	1,272	71	34%	66%	24	47	85	56%	44%	48	37
	Total Developmer	nt Trips	1,272	71			24	47	85			48	37

Notes -

- Trip generation estimates were developed using ITE's Trip Generation, 11th Edition.

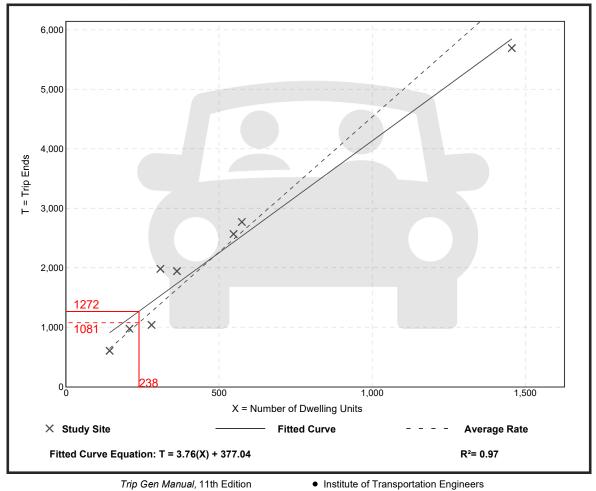
Multifamily Housing (High-Rise) Not Close to Rail Transit (222)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday
Setting/Location:	General Urban/Suburban
Number of Studies:	8
Avg. Num. of Dwelling Units:	484
Directional Distribution:	50% entering, 50% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
4.54	3.74 - 6.45	0.81

Data Plot and Equation

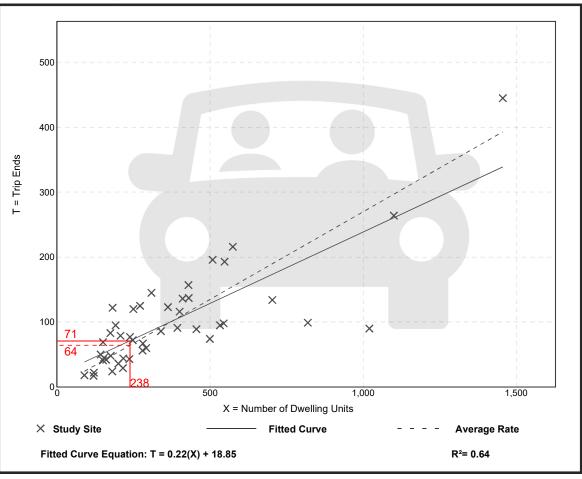


Multifamily Housing (High-Rise) Not Close to Rail Transit (222)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 7 and 9 a.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	45
Avg. Num. of Dwelling Units:	372
Directional Distribution:	34% entering, 66% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.27	0.09 - 0.67	0.11



Data Plot and Equation

Trip Gen Manual, 11th Edition

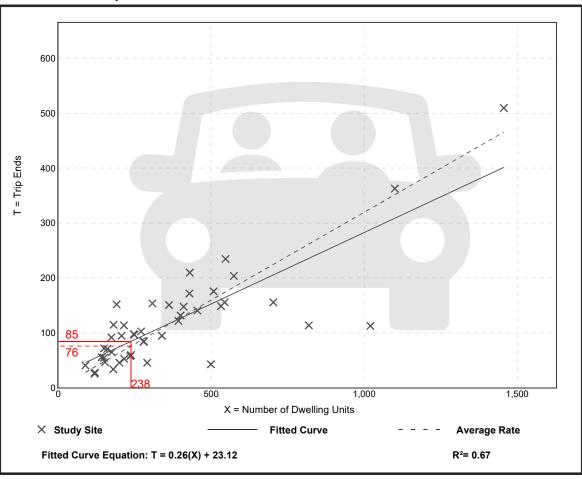
• Institute of Transportation Engineers

Multifamily Housing (High-Rise) Not Close to Rail Transit (222)

Vehicle Trip Ends vs: On a:	Dwelling Units Weekday, Peak Hour of Adjacent Street Traffic, One Hour Between 4 and 6 p.m.
Setting/Location:	General Urban/Suburban
Number of Studies:	45
Avg. Num. of Dwelling Units:	
Directional Distribution:	56% entering, 44% exiting

Vehicle Trip Generation per Dwelling Unit

Average Rate	Range of Rates	Standard Deviation
0.32	0.09 - 0.80	0.13

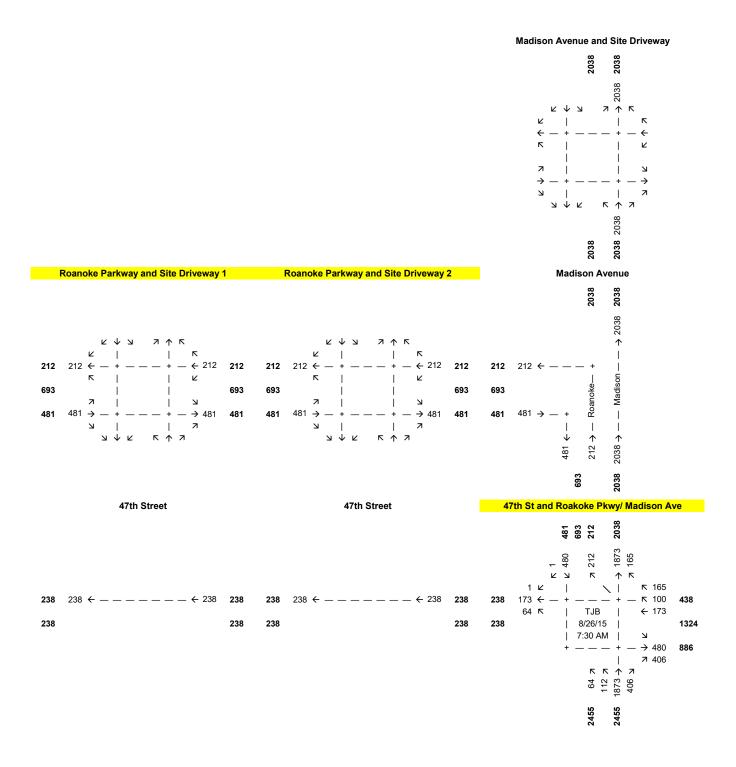


Data Plot and Equation

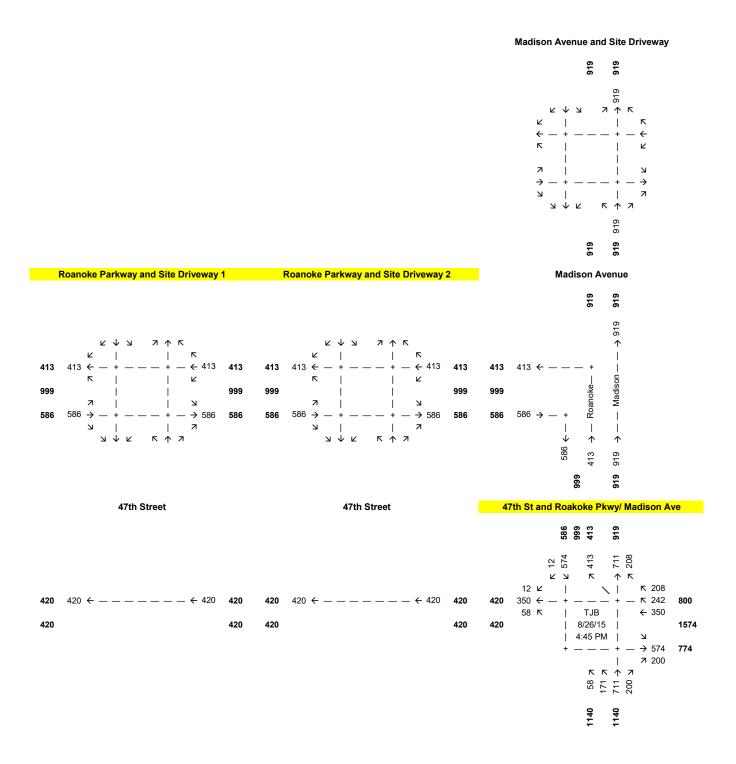
Trip Gen Manual, 11th Edition

• Institute of Transportation Engineers

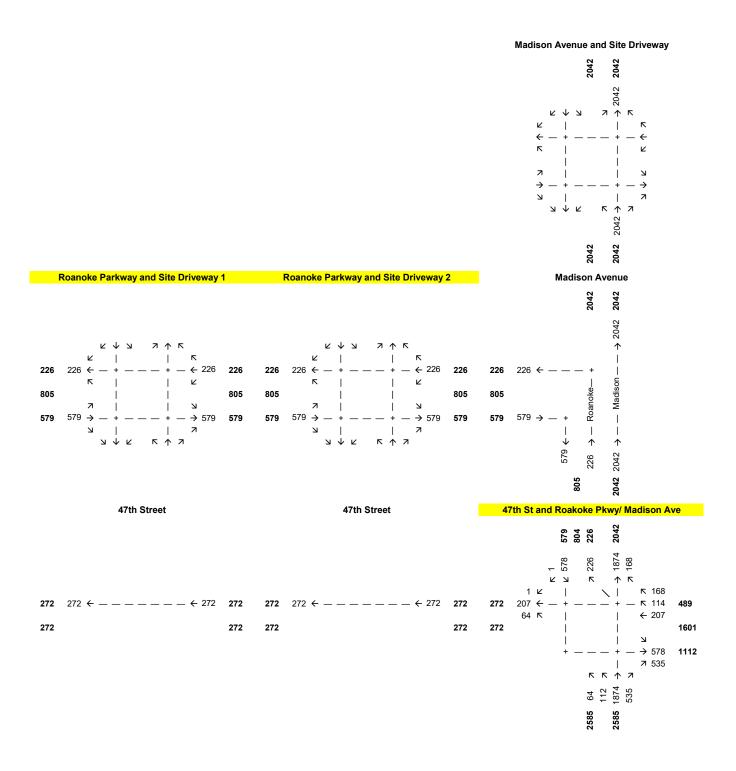
Existing Conditions A.M. Peak Hour



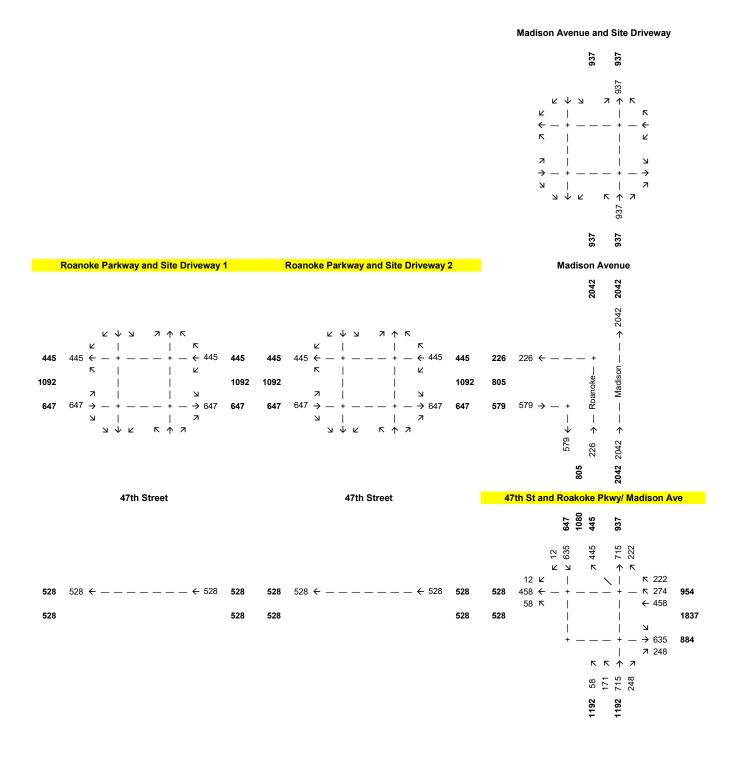
Existing Conditions P.M. Peak Hour



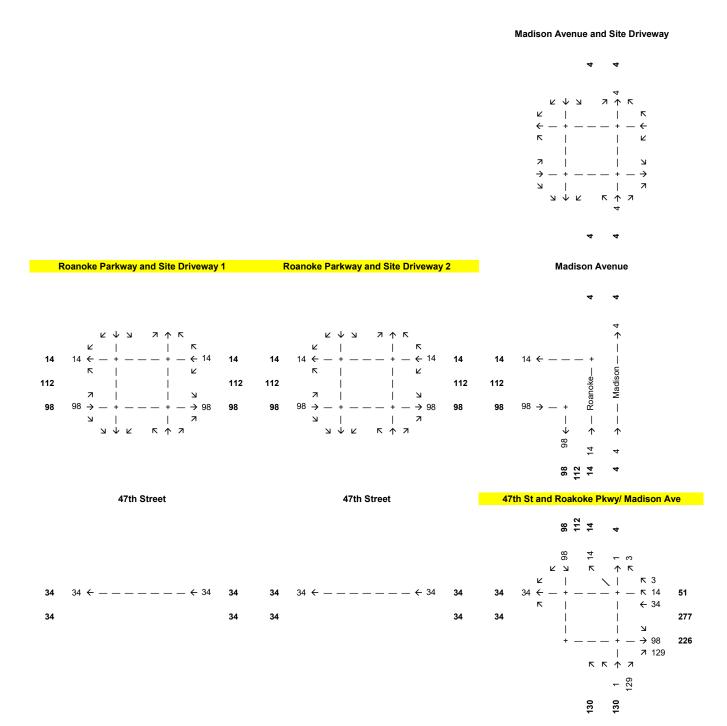
Existing plus Approved Development Traffic Volumes A.M. Peak Hour



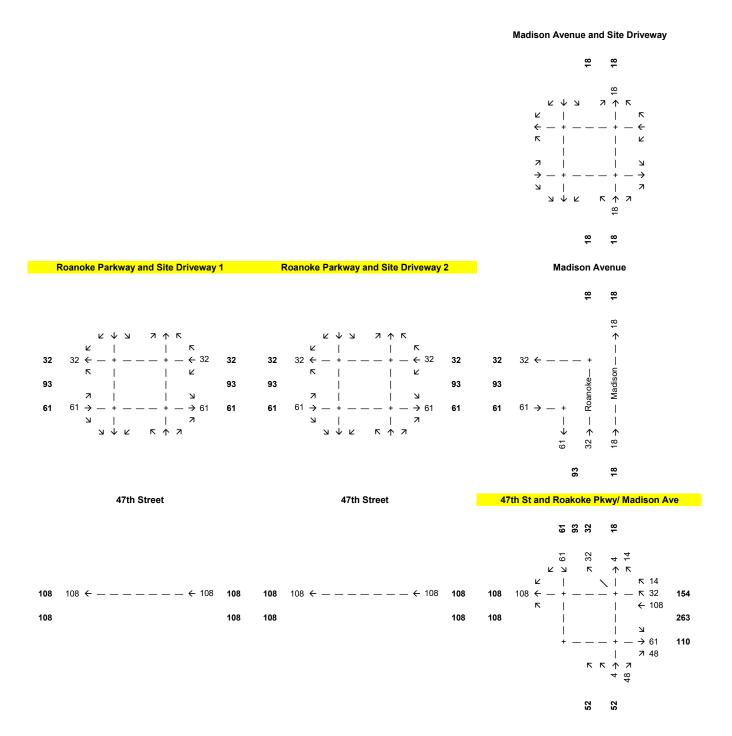
Existing plus Approved Development Traffic Volumes P.M. Peak Hour



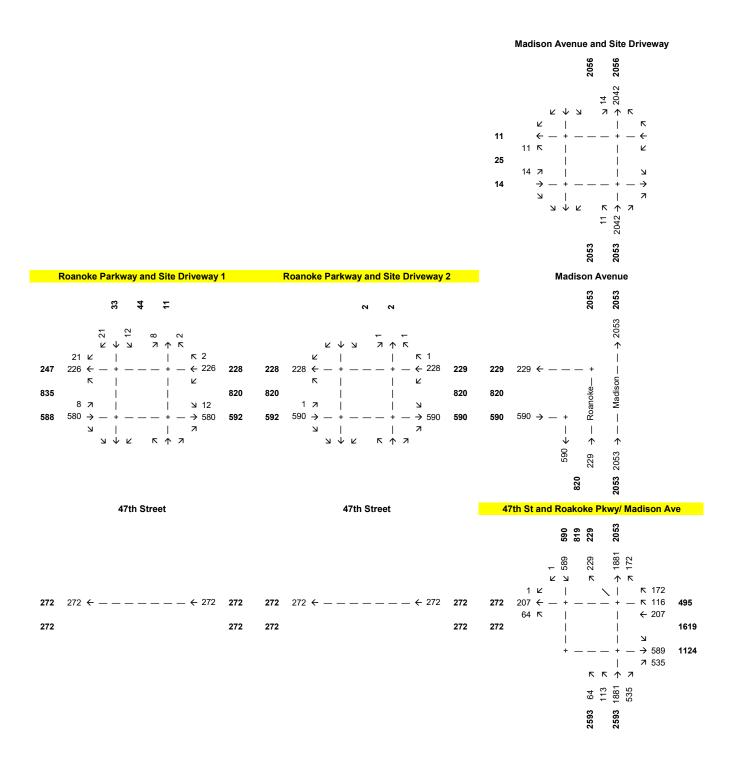
Approved Development Traffic A.M. Peak Hour



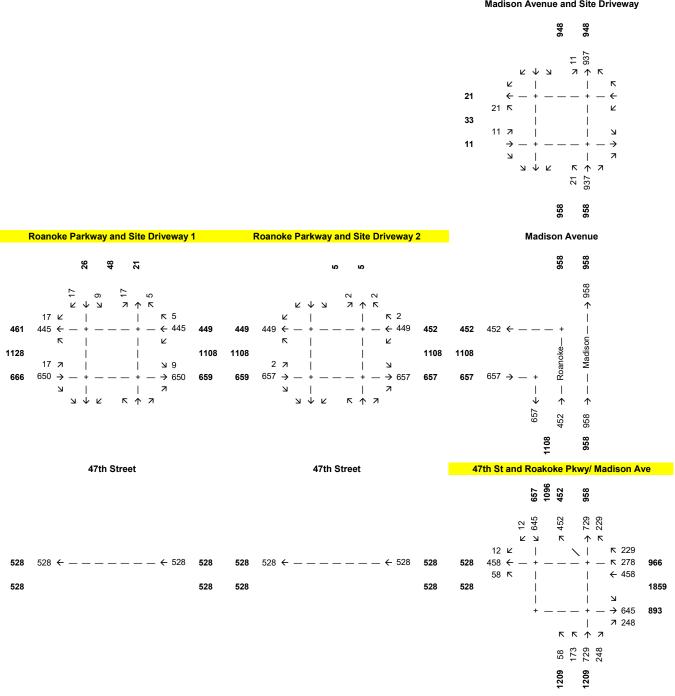
Approved Development Traffic P.M. Peak Hour



Existing plus Approved plus Development Traffic Volumes A.M. Peak Hour



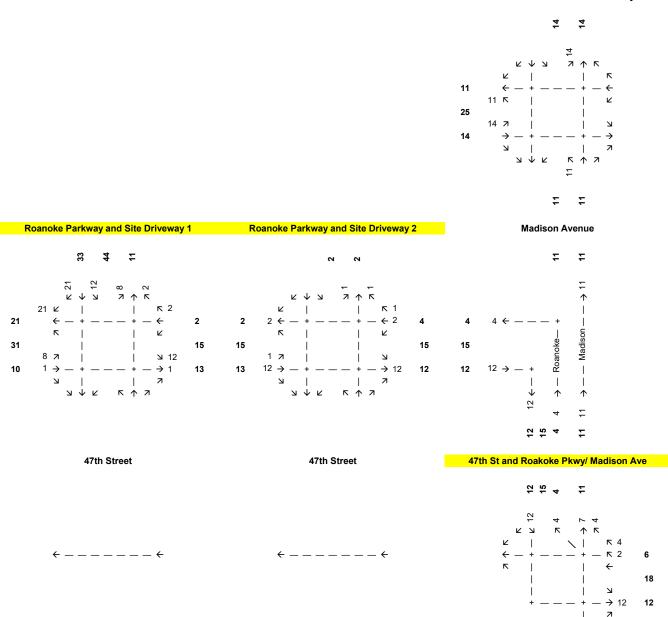
Existing plus Approved plus Development Traffic Volumes P.M. Peak Hour



Madison Avenue and Site Driveway

Proposed Development Traffic A.M. Peak Hour

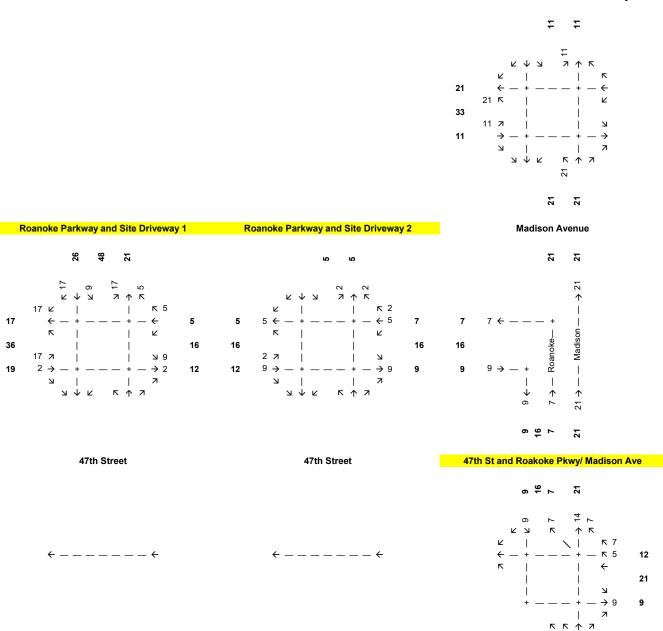
Madison Avenue and Site Driveway



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Proposed Development Traffic P.M. Peak Hour

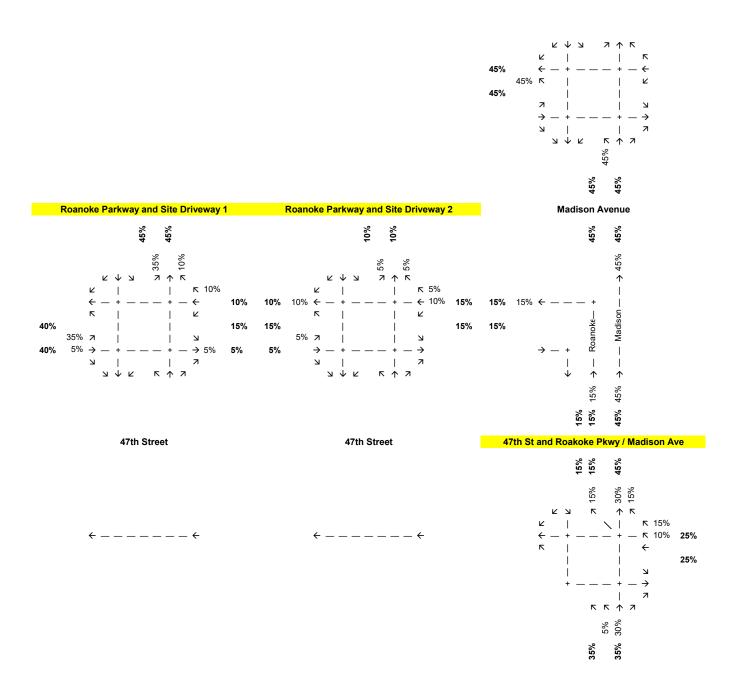
Madison Avenue and Site Driveway



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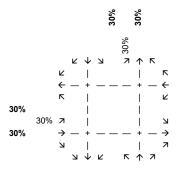
Trip Distribution INBOUND

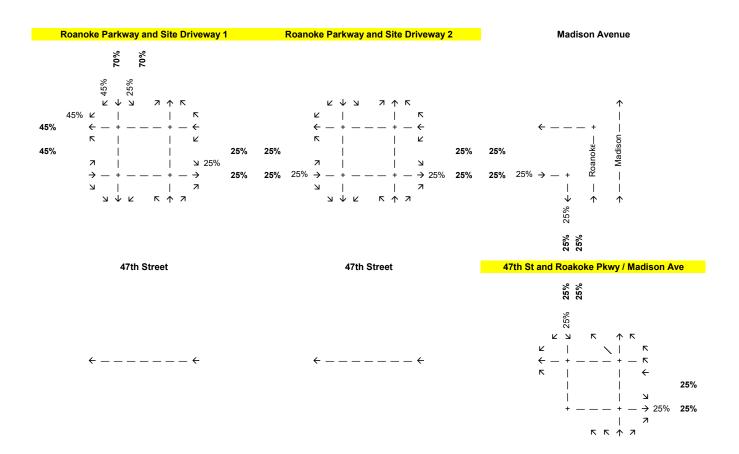
Madison Avenue and Site Driveway



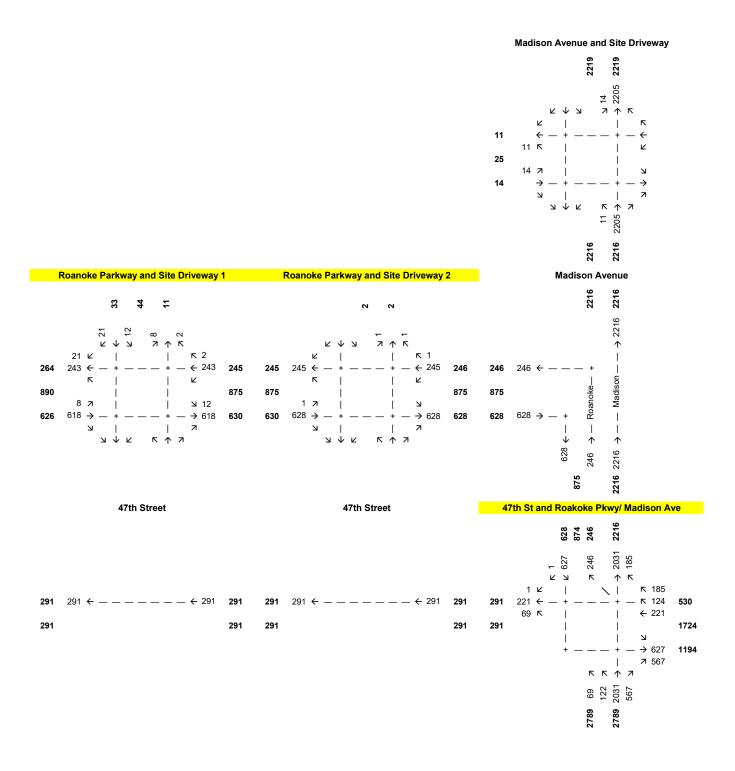
Trip Distribution OUTBOUND

Madison Avenue and Site Driveway

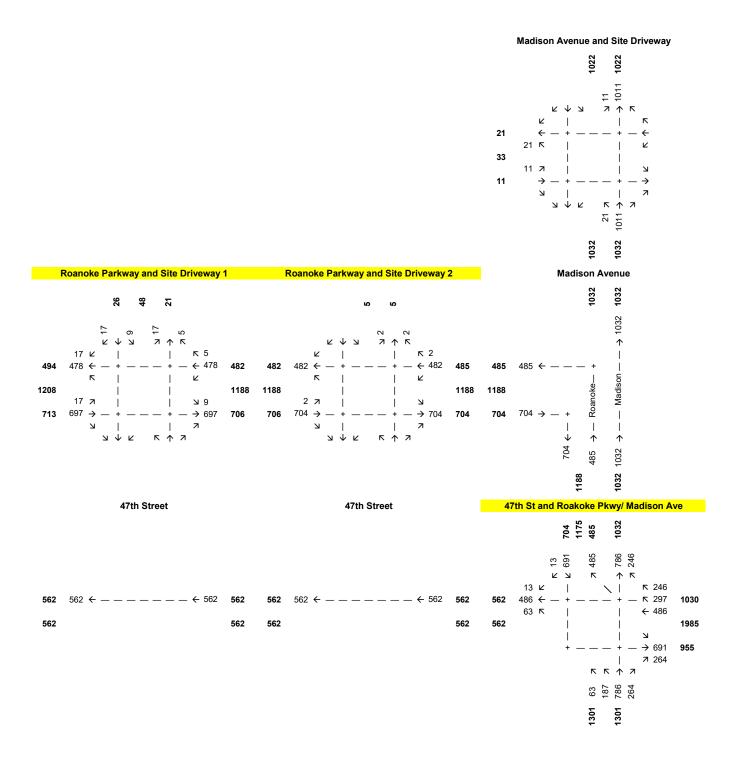




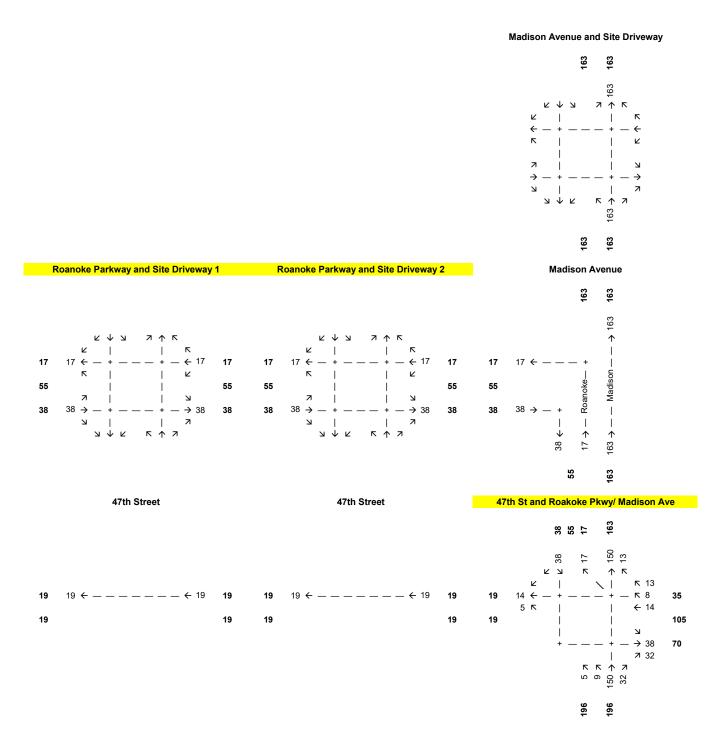
Future Year 2040 Traffic Volumes A.M. Peak Hour



Future Year 2040 Traffic Volumes P.M. Peak Hour

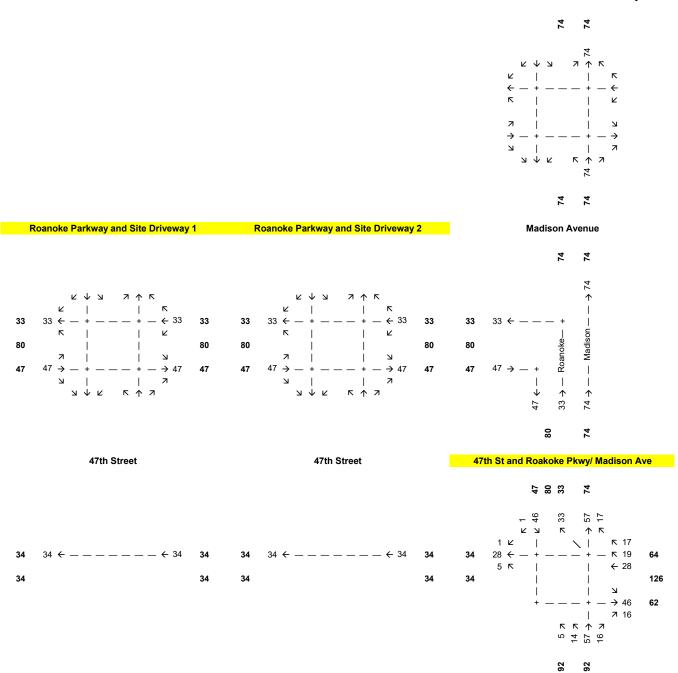


Background Growth A.M. Peak Hour



Background Growth P.M. Peak Hour

Madison Avenue and Site Driveway



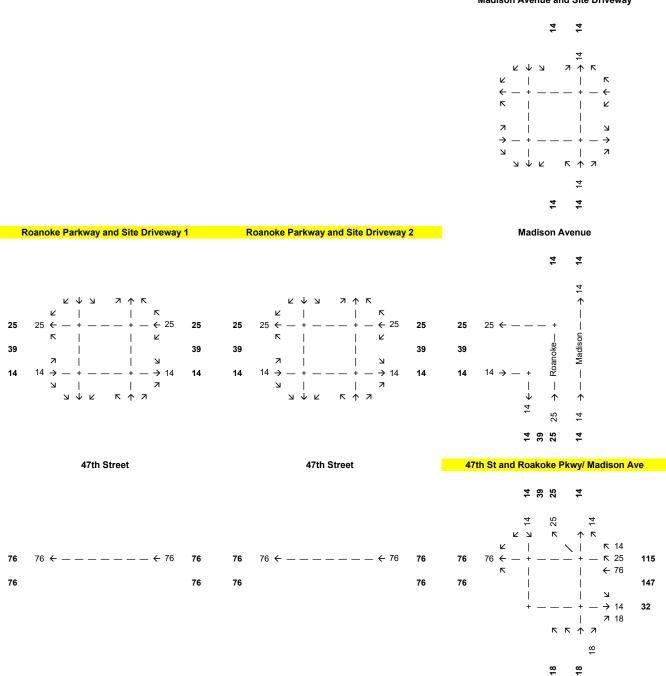
Approved Development Trips - Victory Court Development A.M. Peak Hour

Madison Avenue and Site Driveway

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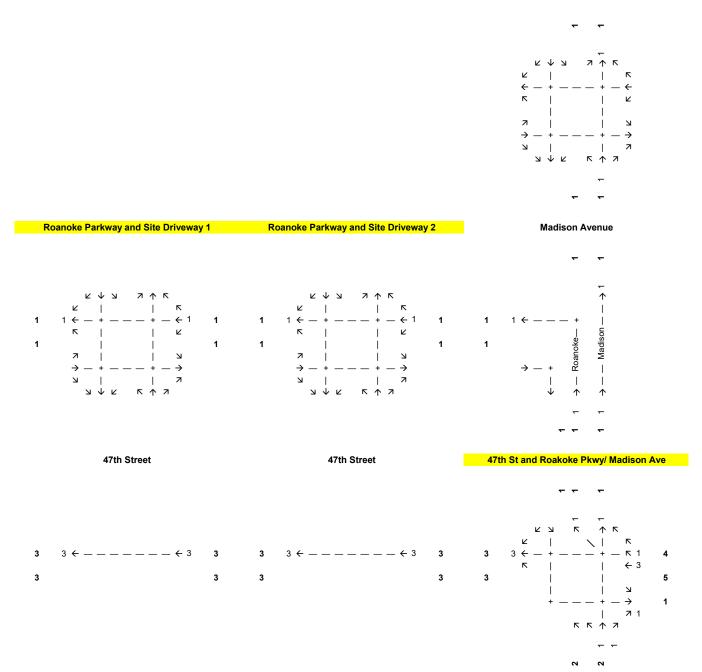
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Approved Development Trips - Victory Court Development P.M. Peak Hour



Approved Development Trips - 46 Penn Development A.M. Peak Hour

Madison Avenue and Site Driveway

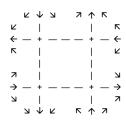


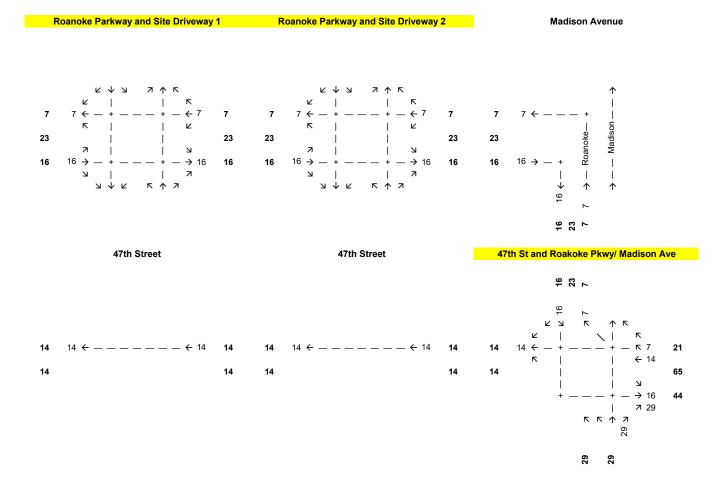
Approved Development Trips - 46 Penn Development P.M. Peak Hour

Madison Avenue and Site Driveway 4 4 $a \downarrow c$ $\mathbf{k} \mathbf{\lambda}$ Г Ľ T 1 ← ← Ľ Г 7 Ы → \rightarrow Ы 7 T T $\land \land 7$ メイト 4 4 4 Roanoke Parkway and Site Driveway 1 Roanoke Parkway and Site Driveway 2 Madison Avenue 4 4 ĸ \downarrow Ы 7 1 1 ĸ \vee \vee 7 A K \uparrow Г Г Ľ Ľ 1 Т Т 1 ← 1 ← 1 $1 \leftarrow - - +$ 1 1 ← + 1 1 1 ← 1 1 I + + Г Г L Ľ Ι Ľ Madison 1 I Roanoke— 1 1 1 1 1 7 Ы 7 Ы 1 I I → → → \rightarrow 7 7 Ы T Ы Т 1 1 чΨк $\land \land 7$ ч√к $\land \land \neg$ \uparrow $\mathbf{\uparrow}$ J, 4 ~ -4 47th St and Roakoke Pkwy/ Madison Ave 47th Street 47th Street - -4 Ľ Ы R Ľ 1 Г $\setminus |$ 1 1 1 ← --1 $1 \leftarrow - - - - - \leftarrow 1$ 1 $1 \leftarrow - - - - - \leftarrow 1$ 1 **⊼**1 2 Г ← 1 1 1 1 1 1 6 Ы \rightarrow 4 + 714

Approved Development Trips - Makenzie House A.M. Peak Hour

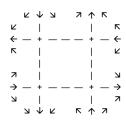
Madison Avenue and Site Driveway

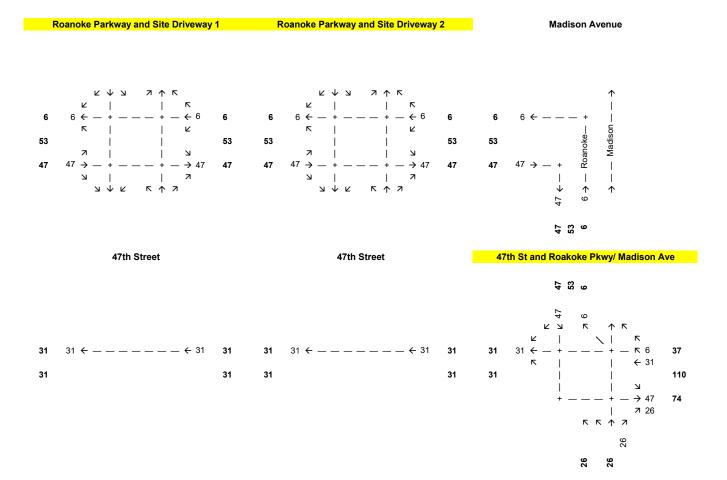




Approved Development Trips - Makenzie House P.M. Peak Hour

Madison Avenue and Site Driveway







Appendix C – Capacity Analysis Reports

See attached Reports.

	+	*	Ť	1	4
Lane Group	WBT	WBR	NBT	NBR	SEL
Lane Group Flow (vph)	252	368	2201	588	680
v/c Ratio	0.55	0.57	0.89	0.59	0.89
Control Delay	55.4	21.6	17.3	3.2	48.6
Queue Delay	0.0	0.0	0.0	0.2	0.0
Total Delay	55.4	21.6	17.3	3.4	48.6
Queue Length 50th (ft)	87	116	467	0	186
Queue Length 95th (ft)	116	142	520	0	#285
Internal Link Dist (ft)	248		571		151
Turn Bay Length (ft)				500	
Base Capacity (vph)	541	657	2470	1003	764
Starvation Cap Reductn	0	0	0	54	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.47	0.56	0.89	0.62	0.89
Intersection Summary					

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	+	*_	•	1	٦	t	1	\searrow	4	
Movement	WBT	WBR	WBR2	NBL2	NBL	NBT	NBR	SEL	SER2	
Lane Configurations	^	1				4412	1	ሻሻ		
Traffic Volume (vph)	207	116	172	64	113	1881	535	589	1	
Future Volume (vph)	207	116	172	64	113	1881	535	589	1	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	6.7	6.7				6.0	6.0	6.8		
Lane Util. Factor	0.95	1.00				0.91	1.00	0.97		
Frpb, ped/bikes	1.00	1.00				1.00	0.98	1.00		
Flpb, ped/bikes	1.00	1.00				1.00	1.00	1.00		
Frt	1.00	0.85				1.00	0.85	1.00		
Flt Protected	1.00	1.00				1.00	1.00	0.95		
Satd. Flow (prot)	3539	1583				5055	1555	3440		
Flt Permitted	1.00	1.00				1.00	1.00	0.95		
Satd. Flow (perm)	3539	1583				5055	1555	3440		
Peak-hour factor, PHF	0.82	0.71	0.84	0.89	0.88	0.94	0.91	0.87	0.38	
Adj. Flow (vph)	252	163	205	72	128	2001	588	677	3	
RTOR Reduction (vph)	0	20	0	0	0	60	262	85	0	
Lane Group Flow (vph)	252	348	0	0	0	2141	326	595	0	
Confl. Peds. (#/hr)			15	7	6		5	5		
Turn Type	NA	custom		Perm	Perm	NA	Perm	Prot		
Protected Phases	6	1				8		5		
Permitted Phases				8	8		8			
Actuated Green, G (s)	13.0	39.6				47.7	47.7	19.8		
Effective Green, g (s)	13.0	39.6				47.7	47.7	19.8		
Actuated g/C Ratio	0.13	0.40				0.48	0.48	0.20		
Clearance Time (s)	6.7	6.7				6.0	6.0	6.8		
Vehicle Extension (s)	4.0	4.0				4.0	4.0	4.0		
Lane Grp Cap (vph)	460	626				2411	741	681		
v/s Ratio Prot	0.07	c0.22						c0.17		
v/s Ratio Perm						0.42	0.21			
v/c Ratio	0.55	0.56				0.89	0.44	0.87		
Uniform Delay, d1	40.7	23.4				23.7	17.3	38.9		
Progression Factor	1.26	0.83				0.52	0.29	1.00		
Incremental Delay, d2	1.7	1.3				4.9	1.7	12.3		
Delay (s)	52.9	20.8				17.2	6.7	51.2		
Level of Service	D	C				В	A	D		
Approach Delay (s)	33.9					15.0		51.2		
Approach LOS	С					В		D		
Intersection Summary										
HCM 2000 Control Delay			23.9	Н	CM 2000	Level of	Service		С	
HCM 2000 Volume to Capac	city ratio		0.86							
Actuated Cycle Length (s)			100.0		um of los				19.5	
Intersection Capacity Utilization	tion		81.4%	IC	CU Level	of Service	1		D	
Analysis Period (min)			15							
c Critical Lane Group										

Intersection

Int Delay, s/veh	0					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-fî†	- 11	1
Traffic Vol, veh/h	0	0	1	590	228	1
Future Vol, veh/h	0	0	1	590	228	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	75
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	1	641	248	1

Major/Minor M	Minor2	I	Major1	N	/lajor2	
Conflicting Flow All	571	124	249	0	-	0
Stage 1	248	124	243	0	-	0
Stage 2	323	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	0.34	4.14		_	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	451	904	1314	-	-	-
Stage 1	770	304	1314	-	-	-
Stage 2	706	-	-	-	-	-
Platoon blocked, %	100	-	-	-	-	-
Mov Cap-1 Maneuver	451	904	1314	-	-	-
	451 541		1314	-	-	-
Mov Cap-2 Maneuver	769	-	-	-	-	-
Stage 1	709	-	-	-	-	-
Stage 2	100	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s	0		0		0	
HCM LOS	А					
Minor Long /Major Mary	1					DI -= 1
Minor Lane/Major Mvm	τ	NWT	NWR	SEL	SET SI	BENI
Capacity (veh/h)		-	-	1314	-	-
HCM Lane V/C Ratio		-	-	0.001	-	-
HCM Control Delay (s)		-	-	7.7	0	0
HCM Lane LOS		-	-	Α	A	А

HCM 95th %tile Q(veh)

0

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Int Delay, s/veh	0.5					
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	^	1		41	Y	
Traffic Vol, veh/h	226	2	8	580	12	21
Future Vol, veh/h	226	2	8	580	12	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	0	-
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	246	2	9	630	13	23

Major/Minor	Major1	Ν	Major2	Ν	/linor1	
Conflicting Flow All	0	0	248	0	579	123
Stage 1	-	-	-	-	246	-
Stage 2	-	-	-	-	333	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	1315	-	446	905
Stage 1	-	-	-	-	772	-
Stage 2	-	-	-	-	698	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver		-	1315	-	441	905
Mov Cap-2 Maneuver	-	-	-	-	441	-
Stage 1	-	-	-	-	772	-
Stage 2	-	-	-	-	690	-
Approach	NB		SB		SW	
HCM Control Delay, s	0		0.1		10.8	
HCM LOS					В	
Minor Lane/Major Mvn	nt	NBT	NBR	SBL	SBTS	SWLn1
Capacity (veh/h)		-	-	1315	-	655
HCM Lane V/C Ratio		-	-	0.007	-	0.055
HCM Control Delay (s))	-	-		0	10.8
HCM Lane LOS	/	-	-	A	A	В

	←	*_	Ť	1	\searrow
Lane Group	WBT	WBR	NBT	NBR	SEL
Lane Group Flow (vph)	482	553	1050	288	757
v/c Ratio	0.71	0.66	0.57	0.43	0.79
Control Delay	64.2	11.4	23.3	11.9	36.0
Queue Delay	0.4	0.0	0.0	0.0	0.1
Total Delay	64.6	11.4	23.3	11.9	36.2
Queue Length 50th (ft)	162	87	124	38	199
Queue Length 95th (ft)	226	102	153	75	244
Internal Link Dist (ft)	248		571		163
Turn Bay Length (ft)				100	
Base Capacity (vph)	753	921	1849	675	1076
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	46	0	2	0	24
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.68	0.60	0.57	0.43	0.72
Intersection Summary					

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Movement	WBT	WBR	WBR2	NBL2	NBL	NBT	NBR	SEL	SER2	
Lane Configurations	††	R.				441>	1	ሻሻ		
Traffic Volume (vph)	458	278	229	58	173	729	248	645	12	
Future Volume (vph)	458	278	229	58	173	729	248	645	12	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	6.7	6.7				6.0	6.0	6.8		
Lane Util. Factor	0.95	1.00				0.91	1.00	0.97		
Frpb, ped/bikes	1.00	1.00				1.00	0.98	1.00		
Flpb, ped/bikes	1.00	1.00				0.99	1.00	1.00		
Frt	1.00	0.85				1.00	0.85	1.00		
Flt Protected	1.00	1.00				0.99	1.00	0.95		
Satd. Flow (prot)	3539	1583				4988	1549	3431		
Flt Permitted	1.00	1.00				0.99	1.00	0.95		
Satd. Flow (perm)	3539	1583				4988	1549	3431		
Peak-hour factor, PHF	0.95	0.93	0.90	0.66	0.93	0.94	0.86	0.87	0.75	
Adj. Flow (vph)	482	299	254	88	186	776	288	741	16	
RTOR Reduction (vph)	0	16	0	0	0	74	124	79	0	
Lane Group Flow (vph)	482	537	0	0	0	976	164	678	0	
Confl. Peds. (#/hr)			10	20	-		8	8	10	
Turn Type	NA	custom		Perm	Perm	NA	Perm	Prot		
Protected Phases	6	1				8		5		
Permitted Phases	-	-		8	8	-	8	-		
Actuated Green, G (s)	19.3	51.7				35.6	35.6	25.6		
Effective Green, g (s)	19.3	51.7				35.6	35.6	25.6		
Actuated g/C Ratio	0.19	0.52				0.36	0.36	0.26		
Clearance Time (s)	6.7	6.7				6.0	6.0	6.8		
Vehicle Extension (s)	4.0	4.0				4.0	4.0	4.0		
Lane Grp Cap (vph)	683	818				1775	551	878		
v/s Ratio Prot	0.14	c0.34						c0.20		
v/s Ratio Perm	0.11	00.01				0.20	0.11	00.20		
v/c Ratio	0.71	0.66				0.55	0.30	0.77		
Uniform Delay, d1	37.7	17.7				25.8	23.2	34.5		
Progression Factor	1.57	0.49				0.92	1.05	1.00		
Incremental Delay, d2	3.0	1.8				1.1	1.3	4.5		
Delay (s)	62.3	10.4				24.8	25.6	39.0		
Level of Service	E	B				C	C	D		
Approach Delay (s)	34.6	_				25.0	Ū	39.0		
Approach LOS	С					С		D		
Intersection Summary							-			
HCM 2000 Control Delay			31.5	Н	ICM 2000	Level of S	Service		С	
HCM 2000 Volume to Capac	city ratio		0.68							
Actuated Cycle Length (s)			100.0		um of los				19.5	
Intersection Capacity Utilization	tion		68.7%	IC	CU Level	of Service			С	
Analysis Period (min)			15							
c Critical Lane Group										

HCM 95th %tile Q(veh)

Int Delay, s/veh	0					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-۠	^	1
Traffic Vol, veh/h	0	0	2	657	449	2
Future Vol, veh/h	0	0	2	657	449	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	75
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	2	730	499	2

Major/Minor	Minor2	1	Major1	Ν	/lajor2	
Conflicting Flow All	868	250	501	0	-	0
Stage 1	499		-	-	-	-
Stage 2	369	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	292	750	1059	-	-	-
Stage 1	575	-	-	-	-	-
Stage 2	670	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		750	1059	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	573	-	-	-	-	-
Stage 2	670	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s	0		0		0	
HCM LOS	A		-			
Minor Lane/Major Mvn	nt	NWT	NWR	SEL	SET S	RI n1
	m			1059	SET S	DLITT
Capacity (veh/h) HCM Lane V/C Ratio		-	-	0.002	-	-
HCM Control Delay (s)	-	-	8.4	0	0
HCM Lane LOS)	-	_	0.4 A	A	A
		-	-	А	~	~

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Int Delay, s/veh	0.5					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-۠		1
Traffic Vol, veh/h	9	17	17	650	445	5
Future Vol, veh/h	9	17	17	650	445	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	0
Veh in Median Storage	,# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	18	18	707	484	5

Major/Minor	Minor2	ſ	Major1	Ν	/lajor2	
Conflicting Flow All	874	242	489	0	-	0
Stage 1	484	-	-	-	-	-
Stage 2	390	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	289	759	1070	-	-	-
Stage 1	585	-	-	-	-	-
Stage 2	653	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	281	759	1070	-	-	-
Mov Cap-2 Maneuver	281	-	-	-	-	-
Stage 1	569	-	-	-	-	-
Stage 2	653	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s			0.3		0	
HCM LOS	B		0.0		U	
	5					
Minor Lane/Major Mvr	mt	NWT	NWR	SEL	SET S	SBLn1
Capacity (veh/h)		-	-	1070	-	478
HCM Lane V/C Ratio		-	-	0.017	-	0.059

HCM Lane V/C Ratio	-	- 0.017	- 0	.059	
HCM Control Delay (s)	-	- 8.4	0.1	13	
HCM Lane LOS	-	- A	А	В	
HCM 95th %tile Q(veh)	-	- 0.1	-	0.2	

	-	*_	1	1	4
Lane Group	WBT	WBR	NBT	NBR	SEL
Lane Group Flow (vph)	270	395	2378	623	724
v/c Ratio	0.64	0.62	0.92	0.63	0.90
Control Delay	57.8	32.0	33.6	10.2	55.0
Queue Delay	0.0	0.0	12.9	0.2	0.0
Total Delay	57.8	32.0	46.5	10.5	55.0
Queue Length 50th (ft)	105	222	600	109	250
Queue Length 95th (ft)	137	233	#684	234	#327
Internal Link Dist (ft)	248		571		151
Turn Bay Length (ft)				500	
Base Capacity (vph)	451	653	2591	984	826
Starvation Cap Reductn	0	0	255	58	0
Spillback Cap Reductn	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.60	0.60	1.02	0.67	0.88
Intersection Summary					

95th percentile volume exceeds capacity, queue may be longer.

Queue shown is maximum after two cycles.

	+	*_	*	1	٦	Ť	1	\$	4	
Movement	WBT	WBR	WBR2	NBL2	NBL	NBT	NBR	SEL	SER2	
Lane Configurations	<u>††</u>	n an				441>	1	ሻሻ		
Traffic Volume (vph)	221	124	185	69	122	2031	567	627	1	
Future Volume (vph)	221	124	185	69	122	2031	567	627	1	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	6.7	6.7				6.0	6.0	6.8		
Lane Util. Factor	0.95	1.00				0.91	1.00	0.97		
Frpb, ped/bikes	1.00	1.00				1.00	0.98	1.00		
Flpb, ped/bikes	1.00	1.00				1.00	1.00	1.00		
Frt Fit Droto stad	1.00	0.85				1.00	0.85	1.00		
Fit Protected	1.00	1.00 1583				1.00 5054	1.00	0.95 3440		
Satd. Flow (prot) Flt Permitted	3539 1.00	1.00				1.00	1553 1.00	0.95		
Satd. Flow (perm)	3539	1583				5054	1553	3440		
			0.04	0.00	0.00				0.20	
Peak-hour factor, PHF	0.82	0.71	0.84	0.89	0.88	0.94	0.91	0.87	0.38	
Adj. Flow (vph)	270	175	220	78	139	2161	623	721	3	
RTOR Reduction (vph)	0	16	0	0	0	47	202	69 655	0	
Lane Group Flow (vph)	270	379	0 15	0	0 6	2331	421 5	655 5	0	
Confl. Peds. (#/hr)	NIA		13			NIA				
Turn Type		custom		Perm	Perm	NA	Perm	Prot		
Protected Phases	6	1		0	0	8	0	5		
Permitted Phases	14.2	46.8		8	8	60.5	8 60.5	0E 0		
Actuated Green, G (s)	14.2	46.8				60.5 60.5	60.5 60.5	25.8 25.8		
Effective Green, g (s) Actuated g/C Ratio	0.12	0.39				0.50	0.50	0.22		
Clearance Time (s)	6.7	6.7				6.0	6.0	6.8		
Vehicle Extension (s)	4.0	4.0				4.0	4.0	4.0		
	418	617				2548	782	739		
Lane Grp Cap (vph) v/s Ratio Prot	0.08	c0.24				2040	102	c0.19		
v/s Ratio Perm	0.00	60.24				0.46	0.27	60.19		
v/c Ratio	0.65	0.61				0.40	0.27	0.89		
Uniform Delay, d1	50.5	29.3				27.4	20.2	45.7		
Progression Factor	1.00	1.00				1.00	1.00	1.00		
Incremental Delay, d2	3.8	2.1				6.5	2.6	12.7		
Delay (s)	54.3	31.4				33.9	22.9	58.3		
Level of Service	04.0 D	51.4 C				00.0 C	22.5 C	50.5 E		
Approach Delay (s)	40.7	0				31.6	0	58.3		
Approach LOS	D					C		E		
Intersection Summary										
HCM 2000 Control Delay			37.4	H	ICM 2000	Level of S	Service		D	
HCM 2000 Volume to Capac	city ratio		0.89							
Actuated Cycle Length (s)			120.0		um of los				19.5	
Intersection Capacity Utilizat	tion		85.9%	IC	CU Level	of Service			E	
Analysis Period (min)			15							
c Critical Lane Group										

Int Delay, s/veh	0					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-۠	^	1
Traffic Vol, veh/h	0	0	1	628	245	1
Future Vol, veh/h	0	0	1	628	245	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	75
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	1	683	266	1

Major/Minor	Minor2	1	Major1	Ν	/lajor2	
Conflicting Flow All	610	133	267	0	-	0
Stage 1	266	-		-	-	-
Stage 2	344	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	426	892	1294	-	-	-
Stage 1	754	-	-	-	-	-
Stage 2	689	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		892	1294	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	753	-	-	-	-	-
Stage 2	689	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s			0		0	
HCM LOS	A		•		•	
					057.0	
Minor Lane/Major Mvr	nt	NWT	NWR	SEL	SET S	BLn1
Capacity (veh/h)		-	-		-	-
HCM Lane V/C Ratio		-	-	0.001	-	-
HCM Control Delay (s)	-	-	7.8	0	0
HCM Lane LOS		-	-	A	A	Α

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HCM 95th %tile Q(veh)

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Int Delay, s/veh	0.5					
Movement	NBT	NBR	SBL	SBT	SWL	SWR
Lane Configurations	^	1		41	Y	
Traffic Vol, veh/h	243	2	8	618	12	21
Future Vol, veh/h	243	2	8	618	12	21
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	0	-
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	264	2	9	672	13	23

Major/Minor	Major1	Ν	/lajor2	Ν	/linor1	
Conflicting Flow All	0	0	266	0	618	132
Stage 1	-	-	-	-	264	-
Stage 2	-	-	-	-	354	-
Critical Hdwy	-	-	4.14	-	6.84	6.94
Critical Hdwy Stg 1	-	-	-	-	5.84	-
Critical Hdwy Stg 2	-	-	-	-	5.84	-
Follow-up Hdwy	-	-	2.22	-	3.52	3.32
Pot Cap-1 Maneuver	-	-	1295	-	421	893
Stage 1	-	-	-	-	756	-
Stage 2	-	-	-	-	681	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver		-	1295	-	416	893
Mov Cap-2 Maneuver	-	-	-	-	416	-
Stage 1	-	-	-	-	756	-
Stage 2	-	-	-	-	674	-
Approach	NB		SB		SW	
HCM Control Delay, s	0		0.1		11.1	
HCM LOS					В	
Minor Lane/Major Mvr	nt	NBT	NBR	SBL	SBTS	WLn1
Capacity (veh/h)		-	-	1295	-	630
HCM Lane V/C Ratio		-	-	0.007	-	0.057
HCM Control Delay (s	5)	-	-	7.8	0	11.1
HCM Lane LOS		-	-	А	А	В
HCM 95th %tile Q(veh	ר)	-	-	0	-	0.2

	+	*	Ť	1	4
Lane Group	WBT	WBR	NBT	NBR	SEL
Lane Group Flow (vph)	512	592	1132	307	811
v/c Ratio	0.72	0.68	0.65	0.48	0.80
Control Delay	64.0	11.7	27.4	15.3	35.9
Queue Delay	0.4	0.0	0.0	0.0	0.2
Total Delay	64.4	11.7	27.4	15.3	36.1
Queue Length 50th (ft)	176	92	147	48	213
Queue Length 95th (ft)	237	112	196	96	263
Internal Link Dist (ft)	248		571		163
Turn Bay Length (ft)				100	
Base Capacity (vph)	775	945	1738	640	1109
Starvation Cap Reductn	0	0	0	0	0
Spillback Cap Reductn	46	0	2	0	29
Storage Cap Reductn	0	0	0	0	0
Reduced v/c Ratio	0.70	0.63	0.65	0.48	0.75
Intersection Summary					

	←	*_	*	1	٦	t	1	\$	4	
Movement	WBT	WBR	WBR2	NBL2	NBL	NBT	NBR	SEL	SER2	
Lane Configurations	**	n a				441>	۲	ሻሻ		
Traffic Volume (vph)	486	297	246	63	187	786	264	691	13	
Future Volume (vph)	486	297	246	63	187	786	264	691	13	
Ideal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	
Total Lost time (s)	6.7	6.7				6.0	6.0	6.8		
Lane Util. Factor	0.95	1.00				0.91	1.00	0.97		
Frpb, ped/bikes	1.00	1.00				1.00	0.98	1.00		
Flpb, ped/bikes	1.00	1.00				0.99	1.00	1.00		
Frt	1.00	0.85				1.00	0.85	1.00		
Flt Protected	1.00	1.00				0.99	1.00	0.95		
Satd. Flow (prot)	3539	1583				4988	1549	3431		
Flt Permitted	1.00	1.00				0.99	1.00	0.95		
Satd. Flow (perm)	3539	1583				4988	1549	3431		
Peak-hour factor, PHF	0.95	0.93	0.90	0.66	0.93	0.94	0.86	0.87	0.75	
Adj. Flow (vph)	512	319	273	95	201	836	307	794	17	
RTOR Reduction (vph)	0	15	0	0	0	77	124	77	0	
Lane Group Flow (vph)	512	577	0	0	0	1055	183	734	0	
Confl. Peds. (#/hr)			10	20			8	8	10	
Turn Type	NA	custom		Perm	Perm	NA	Perm	Prot		
Protected Phases	6	1				8		5		
Permitted Phases				8	8		8			
Actuated Green, G (s)	20.0	54.0				33.3	33.3	27.2		
Effective Green, g (s)	20.0	54.0				33.3	33.3	27.2		
Actuated g/C Ratio	0.20	0.54				0.33	0.33	0.27		
Clearance Time (s)	6.7	6.7				6.0	6.0	6.8		
Vehicle Extension (s)	4.0	4.0				4.0	4.0	4.0		
Lane Grp Cap (vph)	707	854				1661	515	933		
v/s Ratio Prot	0.14	c0.36						c0.21		
v/s Ratio Perm						0.21	0.12			
v/c Ratio	0.72	0.68				0.64	0.36	0.79		
Uniform Delay, d1	37.4	16.7				28.2	25.2	33.7		
Progression Factor	1.57	0.52				0.97	1.12	1.00		
Incremental Delay, d2	3.4	2.0				1.7	1.8	4.7		
Delay (s)	62.2	10.7				29.0	29.9	38.4		
Level of Service	E	В				С	С	D		
Approach Delay (s)	34.6					29.2		38.4		
Approach LOS	С					С		D		
Intersection Summary										
HCM 2000 Control Delay			33.2	Н	CM 2000	Level of S	Service		С	
HCM 2000 Volume to Capac	city ratio		0.73			_0.0.01			Ű.	
Actuated Cycle Length (s)			100.0	S	um of losi	time (s)			19.5	
Intersection Capacity Utilizat	tion		72.3%		CU Level				C	
Analysis Period (min)			15						Ť	
c Critical Lane Group										

Int Delay, s/veh	0					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-۠	^	1
Traffic Vol, veh/h	0	0	2	704	482	2
Future Vol, veh/h	0	0	2	704	482	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	75
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	90	90	90	90	90	90
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	0	0	2	782	536	2

Major/Minor	Minor2	1	Major1	Ν	/lajor2	
Conflicting Flow All	931	268	538	0	-	0
Stage 1	536	-	-	-	-	-
Stage 2	395	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	266	730	1026	-	-	-
Stage 1	551	-	-	-	-	-
Stage 2	650	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	r 265	730	1026	-	-	-
Mov Cap-2 Maneuver	r 265	-	-	-	-	-
Stage 1	549	-	-	-	-	-
Stage 2	650	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s			0		0	
HCM LOS	Â		Ū		U	
	7.					
		N 11 A /==			057.0	
Minor Lane/Major Mv	mt	NWT	NWR	SEL	SET S	BLn1
Capacity (veh/h)		-	-	1026	-	-
HCM Lane V/C Ratio		-	-	0.002	-	-
HCM Control Delay (s	S)	-	-	8.5	0	0
HCM Lane LOS		-	-	A	Α	Α

HCM Lane LOS	-	-	A	A	A		
HCM 95th %tile Q(veh)	-	-	0	-	-		

Int Delay, s/veh	0.5					
Movement	SBL	SBR	SEL	SET	NWT	NWR
Lane Configurations	Y			-۠	^	1
Traffic Vol, veh/h	9	17	17	697	478	5
Future Vol, veh/h	9	17	17	697	478	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	-	-	-	0
Veh in Median Storage,	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	10	18	18	758	520	5

Major/Minor	Minor2	1	Major1	Ν	/lajor2	
Conflicting Flow All	935	260	525	0	-	0
Stage 1	520	-		-	-	-
Stage 2	415	-	-	-	-	-
Critical Hdwy	6.84	6.94	4.14	-	-	-
Critical Hdwy Stg 1	5.84	-	-	-	-	-
Critical Hdwy Stg 2	5.84	-	-	-	-	-
Follow-up Hdwy	3.52	3.32	2.22	-	-	-
Pot Cap-1 Maneuver	264	739	1038	-	-	-
Stage 1	561	-	-	-	-	-
Stage 2	635	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver		739	1038	-	-	-
Mov Cap-2 Maneuver		-	-	-	-	-
Stage 1	544	-	-	-	-	-
Stage 2	635	-	-	-	-	-
Approach	SB		SE		NW	
HCM Control Delay, s	-		0.3		0	
HCM LOS	В					
Minor Long/Major Mu	mt		NWR	SEL	CET (SBLn1
Minor Lane/Major Mvi	m	NWT				
Capacity (veh/h)		-	-	1038	-	447
HCM Lane V/C Ratio		-	-	0.018		
HCM Control Delay (s	5)	-	-	8.5	0.1	13.6
HCM Lane LOS		-	-	A	A	В

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0.1

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HCM 95th %tile Q(veh)



Meeting Sign-In Sheet

Project Name and Address

Name	Address	Phone	Email
Roxsen Koch	900 W. 48th Place, Suite 900 Kansas City, MO 64112	816-572-4669	rkoch@polsinelli.com
Ryan McNellis	900 W. 48th Place, Suite 900 Kansas City, MO 64112	816-360-4137	rmcnellis@polsinelli.com
Ashley McAlmond	900 W. 48th Place, Suite 900 Kansas City, MO 64112	816-360-4131	amcalmond@polsinelli.com
Justin Thompson	4622 Pennsylvania Ave, Suite 700 Kansas City, MO 64112	816-878-6318	jthompson@blockllc.com
Aaron Mesmer	4622 Pennsylvania Ave, Suite 700 Kansas City, MO 64112	816-412-5858	amesmer@blockllc.com
Julie Jennings	4520 Bell, Kansas City, MO 64111	816-215-1388	julie@jtlc.net
Joe Montanari	4010 Belleview, Kansas City MO 64111	816-531-0750	montanarijewelers@swbell.n
Stephanie Murrell			attended via zoom
Julia Thompson			attended via zoom
Annette Card-Storts			attended via zoom
		816-521-8886	attended via zoom
	•		

MESPA

attended via zoom

attended via zoom

iPhone user





CITY PLANNING & DEVELOPMENT

Public Meeting Summary Form

Project Case #

Meeting Date:

Meeting Location:

Meeting Time (include start and end time):

Additional Comments (optional):



EXHIBIT A

Public Meeting Summary

Date: December 15, 2021

Start: 6:00 PM

End: 6:40 PM

Location: Virtually, via Zoom.

Summary of Points Raised

• Ms. Julie Jennings, Mr. Joe Montanari, and Ms. Julia Thompson asked if Applicant was going to need a deviation from the Plaza Plan in order to receive approval for the Development Plan. Applicant responded that no deviation from the Plaza Plan would be required for the Development Plan.