

Meeting Notice

TO: Board Members

FROM: Andrew Santillo

DATE: January 11, 2021

RE: Planning Board Meeting

The regular meeting of the Montgomery County Planning Board is scheduled for <u>Thursday, January 14, 2021 at 6:30 p.m.</u>, to be held via Zoom meeting teleconference.

To join the meeting from your computer, tablet or smartphone: Zoom Meeting ID: 899 574 5359 Password: 081958

You can also dial in using your phone: Dial: 646-558-8656 Enter Meeting Information: 8995745359#, 1#, 081958#

Please call Andrew at (518) 853-8334 between 8:30 a.m. and 4:00 p.m. if you have any questions.

cc: The Recorder Montgomery Co. Legislature DPW The Leader Herald Daily Gazette



MONTGOMERY COUNTY PLANNING BOARD MEETING

Thursday, January 14, 2021

6:30 PM – Montgomery County Business Development Center (Digital Meeting via Zoom)

- I. Pledge of Allegiance
- II. Role Call
- III. 2021 Organizational Items
- IV. Adoption of Agenda
- V. Approval of previous meeting minutes
- VI. Public comments on agenda items (3 minute limit per person)
- VII. City of Amsterdam Site Plan Review
- VIII. Town of Amsterdam Site Plan Review (Housing Referral)
- IX. Town of Amsterdam Site Plan Review (Solar Referral)
- X. Town of Mohawk Zoning Law Amendment
- XI. Any other business

Montgomery County Planning Board Meeting Minutes December 10th, 2020 (digital meeting via Zoom)

MEMBERS PRESENT:

STAFF MEMBERS PRESENT:

Wayne DeMallie, Chairman Ronald Jemmott, Member Irene Collins, Member David Wiener, Member Erin Covey, Member Angela Frederick, Member Betty Sanders, Alternate Alex Kuttesch, Senior Planner Vinnie Nicosia, Economic Dev. Specialist Irene Andrew Santillo, Economic Dev. Assistant Karl Gustafson Jr., Grant Assistant Ken Rose, Director

ABSENT:

John Lyker, Member Mark Hoffman, Vice Chair

OTHERS PRESENT:

Michael Lossio- Solar Company Peter Yetto- Ingales Associates

I. Call to Order

The meeting was called to order by Chairman Wayne DeMallie at 6:31 p.m.

II. Roll Call

The roll call of board members was done by Chairman DeMallie.

III. Adoption of the Agenda

Irene Collins made a motion to accept the agenda, Erin Covey seconded. All members present were in favor.

IV. Approval of previous Minutes

Betty Sanders made a motion to accept previous meeting minutes, Erin Covey seconded the motion. The previous minutes were approved.

V. Public Comment

There was no public comment.

VI. Town of Minden- Special Use Permit/Area Variance/ Site Plan Review

Alex Kuttesch explained to the board that this referral is a 2 Megawatt community solar project in the Town of Minden. The referral came to the county planning board because it is located within a 100ft of an adjacent property that is on a county road. Alex stated that the board will be taking 3 actions on this project. The first one being a Special Use Permit due to the fact that the project is zoned agricultural. The second action that needs to be taken is the Area Variance. The Town of Minden recommended that the project has a tree buffer along the neighboring property line. The Solar panels themselves will not be within the 100ft setback requirement but the tree buffer will not be. The Area Variance would give the project the ability to plant the trees for the buffer. Finally, the last action that will need to be taken is the Site Plan review.

Peter Yetto reiterated that the trees are within the 100ft setback, and that is why the Area variance is needed. Peter also stated that there is no impact of the wetlands that are on the property.

Irene Collins asked if the entire property will be used for solar. Peter explained that the entire property is 120 acres but the acreage of the solar panels is about 9.8 acres.

Angela Frederick made the motion to approve the Special Use Permit referral, seconded by Erin Covey.

All were in favor.

The Special Use Permit referral was approved.

Angela Frederick made the motion to approve the Area Variance referral, seconded by Erin Covey.

All were in favor. The Area Variance referral was approved.

Irene Collins made the motion to approve the Site Plan Review referral, seconded by Ron Jemmott.

All were in favor. The Site Plan Review referral was approved.

VII. City of Amsterdam- Form Based Code

Alex Kuttesch explained that this referral is to update the zoning within the DRI boundary in the City of Amsterdam. This boundary includes the downtown area of Amsterdam, the south side and waterfront. This will put more emphasis on design, building height, signage, balconies, lot sizes, colors of paint for buildings, etc. Alex stated that this is to aim at

clustering similar types of businesses and making sure they have a similar type of design. This Form based code document would supersede any zoning in the downtown area that exist today. Alex added that any referral from the City of Amsterdam that falls in this boundary will have to follow this form based code.

Erin Covey asked if a business wants to paint their building will they have to get the City's approval. Alex stated that they will have to follow the color pallet that is in the form based code.

Angela Frederick made a recommendation that all businesses located in this area are notified of the Form Base Code change. She stated that it would be unfair to change the codes without notifying people within the designated zone, in case they have future goals to remodel their business.

David Wiener made the motion to approve the referral with the modification that the City of Amsterdam notifies everyone in the DRI boundary, Erin Covey seconded.

Irene Collins abstained. The rest of the board was in favor. The referral was approved.

VIII. Other Business

There was no other business.

IX. Adjournment

Irene Collins made a motion to adjourn the meeting at 7:00 p.m., seconded by Ron Jemmott. All were in favor.

Respectfully submitted,

Karl Gustafson Jr. Economic Development Grant Assistant

REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD

Referral Number______ assigned by the MCPB upon acceptance of referral for review

This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda.

TO: Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334 Fax: 518-853-8336 FROM: Municipal Board: <u>Planning Compussion</u> Referring Officer: <u>Paul Gaury</u> Mail original resolution to: <u>Robin Waldron</u> <u>Mail original resolution to: Robin Waldron</u>
1. Applicant: City & Amsterdam 2. Site Address: 27-31 Main Steet
3. Tax Map Number(s): 55-43-1-3 4. Acres: 10
5. Is the site currently serviced by public water? Ves No
6. On-site waste water treatment is currently provided by: 🗹 Public Sewer or 🗌 Septic System
7. Current Zoning: <u>C</u> 8. Current Land Use: <u>Mixed - use</u>
9. Project Description: Personal Wireless Service Facilities
10. MCPB Jurisdiction:
Text Adoption or Amendment Site is located within 500' of: NYS Rtes. 5 and 30
 a municipal boundary. a State or County thruway/highway/roadway an existing or proposed State or County park/recreation area an existing or proposed County-owned stream or drainage channel a State or County-owned parcel on which a public building or institution is situated a farm operation within an Agricultural District (Incl. Ag data Statement) (does not apply to area variances) 11. PUBLIC HEARING: Date: 2/10/2020 Time: 0.30 Location: 2000 Location: 2000 Referred Action(s) If referring multiple, related actions, please identify the referring municipal board if different from above.
12. Text Adoption or Amendment Referring Board:
Comprehensive Plan Local Law Zoning Ordinance Other
13. Zone Change Referring Board:
Proposed Zone District: Number of Acres:
Purpose of the Zone Change:
14. Site Plan Droject Site Review Referring Board: Planning Commission
Proposed Improvements: APR sonal Wireless Service Facilities
Proposed Use:
Will the proposed project require a variance? Yes No Type: Area Use Specify:
Is a State of County DOT work permit needed? If Yes : State or County No Specify:

15. Special Permit	Ret	ferring Board:		
Section of local zoning code that requires a spec	ial permit for thi	s use:		
Will the proposed project require a variance?	Yes	🗌 No	Type: 🗌 Area	Use
16. Variance	Ref	erring Board:		
Area Use				
Section(s) of local zoning code to which the varia	ance is being so	ught:		
Describe how the proposed project varies from the				
		1.0		
A - 42	SEQR Detern	nination		
Action:	Finding:			
Type I		Positive	Declaration – Draft EIS	
Type II		Conditio	nal Negative Declaration	1
Unlisted Action		Negative	Declaration	
Exempt		🗌 No Findi	ng (Type II Only)	
SEQR determination made by (Lead Agency):	Planning	Commussus	Date: 12/10	0/2020
BF	OUIRED MAT	FDIAL		

REQUIRED MATERIAL

Send 3 copies of a "Full Statement of the Proposed Action" which includes:

All materials required by and submitted to the referring body as an application

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets.
- All material may be submitted digitally as well at <u>http://www.mcbdc.org/planning-services/montgomery-county-planning-board-referrals/</u>

This referral, as required by GML §239 1 and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

Name, Title & Phone Number of Person Completing this Form

Transmittal Date

This side to be completed by Montgomery County Planning.

REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD

то:		
wongome	239-m referral is acknowledged on ry County Planning Board has reviewed the proposal stated and makes the following recommendation.	Please be advised that the on the opposite side of this
	Approves	
	Approves (with Modification)	
	Disapproves:	
	No significant County-wide or inter-community input	
	Not subject to Planning Board review	
	Took no action	

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning CITY OF AMSTERDAM ENGINEERING DEPARTMENT CITY HALL, RM. 201 AMSTERDAM, NY 12010

1

Official Use Only	
This is the decision of the Zoning Officer o	of the City of Amsterdam.
REFERRAL TO PLANNING COMMISSIO	
And/or OFFICIAL DECISION FOR DENYI	
LOCATION of SUBJECT PROPERTY:	21-31 Main St
Subject property is in a $\underline{\square C}$ Z	Coning District. SBL# 55. 43 - 1 - 3
Proposed use or construction or installation	ion: le facilities
The undersigned, having examined the plan applicant(s), makes the following findings:	ns and specifications and plot or site plan submitted by the
) Prior approval of a special permit is required	d by the provisions of the Zoning Ordinance of the City of Amsterdan
	d by the provisions of the Zoning Ordinance of the City of Amsterdan the provisions of the Zoning Ordinance of the City of Amsterdam.
) Prior approval of a *Site Plan is required by	the provisions of the Zoning Ordinance of the City of Amsterdam. in violation of Section(s) of the Zoning
) Prior approval of a *Site Plan is required by) Proposed use, construction or installation is Ordinance of the City of Amsterdam, in that 	the provisions of the Zoning Ordinance of the City of Amsterdam. in violation of Section(s) of the Zoning
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CITY OF AMSTERDAM BOARD OF APPEALS

CITY HALL 61 Church St. Amsterdam, Ny 12010 ZONING OFFICE CITY HALL RM. 201

APPLICATION TO BOARD OF APPEALS

The under signed hereby makes application for appeal with the attached application, plans and specifications: <u>Attention all</u> <u>pertinent information below shall be filled in or application will be denied.</u>

Pg. 1 of 3

A. NATURE OF APPLICATION

Application is hereby made to the Board of Appeals for (check appropriate item):

- () Prior approval of subdivision is required by the provisions of Chapter 210, Code of the City of Amsterdam (Complete Block E)
- (x) Approval of a Special Permit as required by the provisions of the Zoning Ordinance.
 (Complete Blocks B and E)
- (X) Approval of a Site Plan as required by the provisions of the Zoning Ordinance. (Complete Blocks B and E)
- () Review of a decision of the Zoning Officer in denying a Building Permit or Certificate of Occupancy. (Complete Blocks C and E)
- () Zoning Officer request for an interpretation of the Zoning Law, Use/Text/Map. (Complete Blocks D and E)

Description of Premises Involved: Applicant shall fill in below.

The property or properties involved are identified as follows 27-31 Main Street (SBL 55.43-1-3)

B. IF APPLICATION IS FOR A SPECIAL USE PERMIT OR SITE PLAN APPROVAL

The applicant proposes to use the premises for the following purposes (give details) <u>Public utility /</u> personal wireless service facility (communications facility)

C. IF APPLICATION IS FOR A REVIEW, OF DECISION OF THE ZONING OFFICER

- 1. The applicant requests relief from the decision of the Zoning Officer with respect to the following section(s) of Zoning Ordinance ______
- 2. The applicant proposes to use the premises for the following purposes (give details)
- 3. The applicant certifies that the following special circumstances apply to his or her property but do not apply generally to land or buildings in the neighborhood ______

APPLICATION TO BOARD OF APPEALS pg. 2 of 3

1.1

- The applicant certifies that no permissible use of his property will produce a reasonable return for the following reasons
- The applicant certifies that the relief requested is the minimum variance which will enable reasonable use of his property for the following reasons ______
- The applicant certifies that the proposed use will not be injurious to the character of the neighbor for the following reasons ______
- 7. The applicant has owned the subject property since ______ The applicant certifies that he owns the following adjoining property ______

D. IF APPLICATION IS FOR AN INTERPRETATION TO THE USE/TEXT/MAP

The interpretation is as follows

E. MAPS, PLANS OR INFORMATION SUBMITTED HEREWITH

The following are submitted herewith (list and identify accurately) See materials attached: FEAF; landowner authorization form; public utility status; Telecommunications Act of 1996, FCC Licenses, Radio-Frequency Analysis

and Propagation Plot; Radio-Frequency Safety Report; non-interference letter; photo simulations; Structural Assessment

Report and Site Plan Drawings

* Applicant must fill in all information below and sign application and if the applicant is not the owner of the for-mentioned premises then the Owner must also sign application.

* Applicant Name (Please Print): Cellco Partnership d/b/a Verizon Wireless

Mailings to Legal Address: _____ c/o David C. Brennan, Esq., Young/Sommer LLC

5 Palisades Drive, Suite 300, Albany, NY 12205

Of hem

Applicant's Contact Telephone Number: 518-438-9907 x 224

* Owner Name (If other than applicant): Cranesville Properties L.L.C.

Owner Address: 1250 Riverfront Center, Amsterdam, NY 12010

* Owner Signature: _____Please see Tab 2

* Applicant Signature: _

Date: 10/31/2020

OFFICE USE ONLY

Building Department:		1 copy needed
Date Received _11/16/20		1 copy needed
Date Received $\frac{11/16/zo}{20-0.33P}$	-	
Is property situated in 500 feet of Montg	omery County referral buffer zon	e?
YES – Preliminary NO	review for Montgomery County F	Planning Board
	DECEIVED	
City Clerk:		original needed
Date Received	NOV 16 2020	
Fee Paid 31 75 00	BUILDING DEPARTMENT CITY OF AMSTERDAM	
Zoning Board of Appeals:		6 copies needed
Date Received		
Fee Paid	-	
Planning Commission:		7 copies needed
Date Received <u>11/16/20</u> Fee Paid #75 **		
Fee Paid		
Applicant:		1 copy

PLANNING COMMISSION CITY OF AMSTERDAM, MONTGOMERY COUNTY, NEW YORK

In the Matter of the Application of

CELLCO PARTNERSHIP d/b/a Verizon Wireless

Lands n/f Cranesville Properties, L.L.C. 27-31 Main Street City of Amsterdam, Montgomery County, New York Section 55.43, Block 1, Lot 3

APPLICATION FOR SITE PLAN REVIEW/SPECIAL USE PERMIT and STATEMENT OF INTENT

Submitted by:

Verizon Wireless Kathy Pomponio, Manager – Network Real Estate 1275 John Street, Suite 100 West Henrietta, New York 14586 (585) 321-5435

Tectonic Engineering & Surveying Consultants, P.C. Steven Matthews, P.E. 36 British American Blvd, Suite 101 Latham, New York 12110 (518) 783-1630

> Pyramid Network Services, LLC Logan Parker, Site Acquisition Specialist 6615 Towpath Road East Syracuse, New York 13057 (585) 410-1714

> > Young/Sommer LLC David C. Brennan, Esq. Executive Woods Five Palisades Drive Albany, New York 12205 (518) 438-9907

Dated: October 30, 2020

AMSTERDAM, N	IY 12010
APPLICATION FOR PERMIT DENIED:	Case #
Official Use Only	
This is the decision of the Zoning Officer of the City of Am	sterdam.
REFERRAL TO PLANNING COMMISSION FOR SITE PL	
*SITE PLAN SPECIAL USE PERMIT	
And/or OFFICIAL DECISION FOR DENYING APPLICAT	
USE VARIANCE AREA VARIANCE	_USE/TEXT/MAP INTERPRETATION
LOCATION of SUBJECT PROPERTY:	
Subject property is in a Zoning District.	SBL#
Proposed use or construction or installation:	
The undersigned, having examined the plans and specifica applicant(s), makes the following findings:) Prior approval of a special permit is required by the provision) Prior approval of a *Site Plan is required by the provisions of	s of the Zoning Ordinance of the City of Amsterda the Zoning Ordinance of the City of Amsterdam.
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CITY OF AMSTERDAM BOARD OF APPEALS

CITY HALL 61 CHURCH ST. AMSTERDAM, NY 12010 ZONING OFFICE CITY HALL RM. 201

APPLICATION TO BOARD OF APPEALS

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- () Zoning Officer request for an interpretation of the Zoning Law, Use/Text/Map. (Complete Blocks D and E)

Description of Premises Involved: Applicant shall fill in below.

The property or properties involved are identified as follows

B. IF APPLICATION IS FOR A SPECIAL USE PERMIT OR SITE PLAN APPROVAL

The applicant proposes to use the premises for the following purposes (give details)

C. IF APPLICATION IS FOR A REVIEW, OF DECISION OF THE ZONING OFFICER

- 1. The applicant requests relief from the decision of the Zoning Officer with respect to the following section(s) of Zoning Ordinance
- 2. The applicant proposes to use the premises for the following purposes (give details)
- 3. The applicant certifies that the following special circumstances apply to his or her property but do not apply generally to land or buildings in the neighborhood ______

APPLICATION TO BOARD OF APPEALS

pg. 2 of 3

- 4. The applicant certifies that no permissible use of his property will produce a reasonable return for the following reasons _____
- 5. The applicant certifies that the relief requested is the minimum variance which will enable reasonable use of his property for the following reasons
- 6. The applicant certifies that the proposed use will not be injurious to the character of the neighbor for the following reasons

7. The applicant has owned the subject property since _____ The applicant certifies that he owns the following adjoining property

D. IF APPLICATION IS FOR AN INTERPRETATION TO THE USE/TEXT/MAP

The interpretation is as follows

E. MAPS, PLANS OR INFORMATION SUBMITTED HEREWITH

The following are submitted herewith (list and identify accurately)

* Applicant must fill in all information below and sign application and if the applicant is not the owner of the for-mentioned premises then the Owner must also sign application.

* Applicant Name (Please Print):	
Mailings to Legal Address:	
Applicant's Contact Telephone Number:	
* Owner Name (If other than applicant):	
Owner Address:	
* Owner Signature:Please see Tab 2 * Applicant Signature:ail & Mem	
Date:	

PLANNING COMMISSION CITY OF AMSTERDAM, MONTGOMERY COUNTY, NEW YORK

In the Matter of the Application of

CELLCO PARTNERSHIP d/b/a Verizon Wireless

Premises: Lands n/f of Cranesville Properties, L.L.C. 27-31 Main Street, Amsterdam, New York 12010 Section 55.43, Block 1, Lot 3

STATEMENT OF INTENT and APPLICATION FOR SITE PLAN REVIEW/SPECIAL USE PERMIT

I. Introduction

CELLCO PARTNERSHIP d/b/a Verizon Wireless ("Verizon Wireless" or the "Applicant") proposes the location of an unmanned public utility/personal wireless service facility (a "communications facility") at the above premises. The Applicant proposes to install: 1) eight (8) panel antennas mounted to the existing exterior wall of the existing penthouse and on a proposed ballast mount and steel frame on the rooftop; 2) equipment in the existing abandoned shelter on the rooftop; and 3) installation of electric and telecommunications equipment on a wall mounted strut. The building and lands are owned by Cranesville Properties, L.L.C. (the "premises"). The premises is located at 27-31 Main Street, City of Amsterdam, Montgomery County, New York (Tax Map Parcel No. 55.43-1-3), in the Downtown Core zoning district and Gateway Overlay zoning district. **[Zoning Site Plan Drawings of Tectonic Engineering & Surveying Consultants P.C. at TAB 11]**.

Verizon Wireless is considered a public utility for land use purposes under New York decisional law (*Cellular Telephone Company v. Rosenberg*, 82 N.Y.2d 364 [1993]) **[TAB 3]**, and a provider of "personal wireless services" under the federal Telecommunications Act of 1996 (the "TCA") **[TAB 4]**. Verizon Wireless' equipment will be in operation twenty-four (24) hours a day, seven (7) days a week, three hundred sixty-five (365) days a year. Copies of the applicable Verizon Wireless FCC licenses are included herewith **[TAB 5]**.

Pursuant to the City of Amsterdam Zoning Law (hereinafter, the "Zoning Law") and previous applications in the City of Amsterdam, this project requires Site Plan Review/Special Use Permit from the City of Amsterdam Planning Commission.

To the extent any variance relief is required for this project, this State's highest Court determined in *Rosenberg* that the ordinary variance standard is inapplicable and a cellular telephone company applying for relief need only show that (1) the relief is "required to render safe and adequate service," and (2) there are "compelling reasons, economic or otherwise," for needing the variance. *Cellular Telephone Company v. Rosenberg*, 82 N.Y.2d 364, 372 (1993).

II. <u>Purpose of the Amsterdam Center Facility</u>

The purpose of the Amsterdam Center communications facility is to provide an adequate and safe level of emergency and non-emergency Verizon Wireless communications services to the City of Amsterdam. More specifically, the proposed facility will extend and improve coverage and network capacity for portions of I-90, 3.5± miles along Route 5, 2.5± miles along Route 5s, 2.0± miles along Route 30, and surrounding areas. Coverage along all the main routes and local roads throughout this area including many homes, offices, shops, restaurants and hotels will be significantly improved in all of Verizon Wireless operational frequency bands.

Due to factors such as distance to surrounding Verizon Wireless facilities, significant RF signal degradation and blocking from numerous buildings in the City, exploding customer demand in the area, patches of dense local vegetation, and widely varying terrain in the area, there are significant gaps in adequate LTE service for Verizon Wireless in the 700 and 2100 MHz frequency bands in the City of Amsterdam.

Accordingly, construction of a new, <u>locally-based</u> communications facility is required to provide a dominant (i.e., continuous) level of advanced communications service to this area. *See*, RF Analysis prepared by Verizon Wireless' Radio Frequency (RF) Engineer, detailing the purpose and need for this facility **[TAB 6]**.

III. <u>Description of Land Use</u>

Verizon Wireless proposes to collocate a new communications facility on the rooftop of the Cranesville Properties building. The new communications facility will consist of the following general components:

- Two (2) panel antennas and appurtenances wall mounted at a centerline of approximately 98' AGL;
- Two (2) panel antennas and appurtenances wall mounted on the existing penthouse at a centerline of approximately 108' AGL;
- Two (2) panel antennas and appurtenances on a ballast mount at a centerline of approximately 104' AGL;
- Two (2) panel antennas and appurtenances attached to a steel frame at a centerline of approximately 104' AGL;
- Equipment located in an existing abandoned equipment shelter located on the rooftop;
- Cabling connecting the antennas to the telecommunications equipment and associated utility service connections.

The total project area is a minimal portion of the .43-acre parcel, limited to lease areas on the roof of the existing commercial building for each antenna sector and a lease area for the equipment in the existing abandoned equipment shelter **[see Zoning Drawings at TAB 11]**. These drawings also show the size and location of the associated equipment.

The proposed communications facility is unmanned, and will be visited for routine maintenance purposes approximately 2 – 3 times per year (only as needed). As such, the project will not have any impact on existing water and sewage services. In addition, neither pedestrian nor vehicular access to the premises will be impacted **[see Zoning Drawings at TAB 11]**.

IV. <u>Compliance with Section 250-38 – Communication Facilities</u>

The proposed communications facility complies in all material respects with the zoning requirements of the City of Amsterdam:

A. COMPLIANCE WITH SITE PLAN REVIEW REQUIREMENTS:

- **1. Site Plan:** The Applicant has provided a Zoning Site Plan that documents compliance with all applicable requirements of the City of Amsterdam Zoning Law. *See,* Zoning Site Plan of Tectonic Engineering at **TAB 11**.
- **2. Environmental Assessment Form.** A complete Full Environmental Assessment Form (EAF) is provided in **TAB 1**, prepared and certified by Steven Matthews, Engineer for the Applicant.
- **3. Landscaping Plan.** The proposed facility is collocated on the existing building and penthouse, and therefore no landscaping is proposed.
- **4. Documentation of Proposed Height.** The Applicant has provided documentation from the RF engineer that the proposed height of the antennas is necessary to provide service to the community. See **TAB 6.**
- 5. **Statement Regarding Collocation.** The proposed application is for a collocation and therefore a statement regarding future collocation on a new tower facility is not applicable to this application.
- 6. **Structural Analysis:** The Applicant has submitted a certification with documentation showing that the building proposed for use in this project is structurally sound for this purpose. There are separate reports for the antenna and the shelter. **[TAB 10]**.
- 7. **Radio Frequency (RF) Emissions:** Although a matter of federal jurisdiction, the Applicant has submitted a report documenting that the communications facility proposed will comply with the requirements of the Federal Communications Commission (FCC) concerning radio frequency (RF) emissions [TAB 7].

While also a matter of federal jurisdiction, the Applicant has submitted a report from the Verizon Wireless RF Engineer, certifying that the proposed facility will not interfere with communications devices operating in the surrounding vicinity. **[TAB 8]**.

- 8. **Design Criteria:** The Applicant has designed its proposed buildingmounted facility in a manner that materially complies with all essential facility specific requirements.
- **9. Minimal Visual Impact:** As noted above, Verizon Wireless' collocated facility on this existing building is designed to have a minimum possible visual effect on the surrounding community or neighborhood. Further, the antennas will be painted to match the building, which will further alleviate

any potential minor visual impacts. [TAB 9].

Based upon the foregoing, Verizon Wireless respectfully submits that Site Plan/Special Use Permit approval is appropriate in this case. In addition, Verizon Wireless notes the following:

Public Necessity

The communications facility proposed is a public necessity under *Rosenberg* in that it is required to render adequate and safe service to the City of Amsterdam (as defined above). In an effort to expand and improve telecommunications services to this area, while reducing the need for a new tower, Verizon Wireless has identified an appropriate location for the collocation of antennas on the existing commercial building. As noted herein, the RF engineer has identified that due to factors identified above, 4G coverage and capacity are insufficient in this portion of the City of Amsterdam. This, combined with the federal mandate to expeditiously deploy advanced wireless services across the nation and Verizon Wireless' FCC licenses to provide such services in the City of Amsterdam, demonstrates that Verizon Wireless' facility is a public necessity. Without the construction of the telecommunications facility proposed, the public would be deprived of an essential means of communication, which, in turn, would jeopardize the safety and welfare of the community and traveling public.

Compelling Reasons for Approval

As is demonstrated by the Applicant's Radio Frequency Analysis, the area within which Verizon Wireless can locate its facility and provide capacity relief and adequate and safe service to this area of the City of Amsterdam is limited. The subject site is the most suitable candidate for a new wireless facility.

The facility's antennas and supporting equipment will not be noticeable to the traveling public, or nearby property owners. The proposed antennas will be painted to match the existing building. The communications facility proposed has been sited to have the least practical adverse visual effect on the environment (in particular, local residential areas), and any resulting impact(s) may properly be considered as minimal in nature and scope.

As set forth above, the Applicant has proposed a facility that will enable Verizon Wireless to provide adequate and safe wireless services to an important area of the City of Amsterdam in accordance with its FCC licenses.

V. <u>Conclusion</u>

Approval of this project will enable Verizon Wireless to continue to provide an adequate and safe level of hand-held wireless telephone service to a busy area of Amsterdam, within the confines of applicable technological limitations and in compliance with all applicable land use requirements. Such approval will also be in the public interest, in that it will allow Verizon Wireless to comply with its statutory mandate to build out and operate its network and provide local businesses, residents and public service entities with safe and reliable wireless communications services. For the reasons set forth herein, Verizon Wireless respectfully submits that this project complies in all material respects with the requirements of the Amsterdam Zoning Law and any potential impact on the community created by approval of this project will be minimal and of no significant adverse effect. Attached to this Application and Statement of Intent are the following:

- 1. A completed Full Environmental Assessment Form;
- 2. A redacted copy of the Lease Agreement demonstrating landowner authorization;
- 3. Documentation of VZW's public utility status and an overview of relevant law;
- 4. An overview of the Telecommunications Act of 1996;
- 5. Copies of Verizon Wireless' FCC Licenses for Montgomery County;
- 6. Radio-Frequency Analysis and Propagation Plot by the Verizon Wireless RF Engineer;
- 7. Radio-Frequency Safety Report by Site Safe, LLC;
- 8. Non-Interference letter by the Verizon Wireless RF Engineer;
- 9. Visual EAF Addendum and photo simulations of the proposed installation;
- 10. Structural Assessment Reports prepared by Tectonic Engineering; and
- 11. Site Plan Drawings by Tectonic Engineering

Kindly place this matter on the agenda for discussion at the meeting of the Planning Commission to be held on November 25, 2020. In the meantime, if you should have any questions or require any additional information concerning this project, I can be reached at (518) 438-9907.

Thank you for your consideration.

Respectfully submitted,

CELLCO PARTNERSHIP d/b/a Verizon Wireless

il C. Brenner

David C. Brennan, Esq. Regional Local Counsel

Dated: October 30, 2020

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:

Cellco Partnership, d/b/a Verizon Wireless - Amsterdam Center - Unmanned Wireless Communications Facility

Project Location (describe, and attach a general location map):

27-31 Main Street, Amsterdam, Montgomery County, NY 12010

Brief Description of Proposed Action (include purpose or need):

Cellco Partnership, d/b/a Verizon Wireless proposes the installation of an unmanned wireless communications facility on the roof of the existing building. Said property being located on Main Street, approximately 100 feet South West of the intersection of Main Street and Chuctanunda Road. Access to the proposed facility will originate from Main Street utilizing the existing paved parking lot.

In general, the installation will consist of the following: Installing eight (8) new Verizon antennas at a center-line height(s) of 98,104 and 108 feet on the roof of the existing 112-foot tall building, installing equipment cabinets and related equipment in existing abandoned equipment shelter, and installing all related antenna cabling and utility services (power and telephone).

Name of Applicant/Sponsor:	Telephone: (585) 321-5435			
Cellco Partnership, d/b/a Verizon Wireless; attn: Kathy Pomponio	E-Mail: Kathy.Pomponio@VerizonWireless.com			
Address: 1275 John Street, Suite #100				
City/PO: West Henrietta	State: New York	Zip Code: 14586		
Project Contact (if not same as sponsor; give name and title/role):	Telephone: 518.438.9907 Ext. 224			
Young/Sommer, LLC; attn: Dave C. Brennan, Esq.	E-Mail: DBrennan@youngsommer.com			
Address:				
Executive Woods, Five Palisades Drive				
City/PO:	State:	Zip Code:		
Albany	New York	12205		
Property Owner (if not same as sponsor):	Telephone:			
Cranesville Properties, L.L.C.	E-Mail:			
Address:				
1250 Riverfront Center				
City/PO: Amsterdam State: NY Zip Code		Zip Code: 12010		

B. Government Approvals

B. Government Approvals, Funding, or Sponsorship. ("Funding" includes grants, loans, tax relief, and any other forms of financial assistance.)				
Government E	ntity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)	
a. City Counsel, Town Board or Village Board of Truste				
b. City, Town or Village Planning Board or Commi	⊘ Yes⊡No ssion	Special Use Permit, Site Plan Review, Certificate of Appropriateness, Planning Commission	тво	
c. City, Town or Village Zoning Board of A	□Yes ☑ No Appeals			
d. Other local agencies	√ Yes □ No	Building Permit, Building Department	TBD	

County Planning Referral

TBD

□Yes **☑**No

☑ Yes□No

□ Yes **Z** No

ii.	Is the project site located in a community with an approved Local Waterfront Revitalization Program?
iii.	Is the project site within a Coastal Erosion Hazard Area?

i. Is the project site within a Coastal Area, or the waterfront area of a Designated Inland Waterway?

∠YesNo

∐Yes**∑**No

□Yes**☑**No

□Yes**☑**No

C. Planning and Zoning

e. County agencies

f. Regional agencies

g. State agencies

h. Federal agencies

i. Coastal Resources.

C.1. Planning and zoning actions.	
 Will administrative or legislative adoption, or amendment of a plan, local law, ordinance, rule or regulation be the only approval(s) which must be granted to enable the proposed action to proceed? If Yes, complete sections C, F and G. If No, proceed to question C.2 and complete all remaining sections and questions in Part 1 	∐Yes ⊠ No
C.2. Adopted land use plans.	
a. Do any municipally- adopted (city, town, village or county) comprehensive land use plan(s) include the site where the proposed action would be located?	∠ Yes No
If Yes, does the comprehensive plan include specific recommendations for the site where the proposed action would be located?	ℤ Yes □ No
 b. Is the site of the proposed action within any local or regional special planning district (for example: Greenway; Brownfield Opportunity Area (BOA); designated State or Federal heritage area; watershed management plan; or other?) If Yes, identify the plan(s): NYS Heritage Areas: Mohawk Valley Heritage Corridor 	⊘ Yes⊡No
 c. Is the proposed action located wholly or partially within an area listed in an adopted municipal open space plan, or an adopted municipal farmland protection plan? If Yes, identify the plan(s): 	∐Yes ⊠ No

C.3. Zoning	
a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? Downtown Core	✓ Yes□No
b. Is the use permitted or allowed by a special or conditional use permit?	☑ Yes ☐ No
 c. Is a zoning change requested as part of the proposed action? If Yes, <i>i</i>. What is the proposed new zoning for the site? 	☐ Yes Z No
C.4. Existing community services.	
a. In what school district is the project site located? Greater Amsterdam	
b. What police or other public protection forces serve the project site? <u>Amsterdam Police Department</u> , NYS Police Department	
c. Which fire protection and emergency medical services serve the project site? Amsterdam Fire Department	
d. What parks serve the project site? <u>Riverlink Park, Mohawk Valley Gateway Overlook Pedestrian Bridge, Kirk Douglas Park, Amsterdam Recreation Office</u>	

D. Project Details

D.1. Proposed and Potential Development		
a. What is the general nature of the proposed action (e.g., residential, induced components)? Unmanned public utility/personal wireless service facility		11
b. a. Total acreage of the site of the proposed action?	0.43 acres	
b. Total acreage to be physically disturbed?	0 acres	
c. Total acreage (project site and any contiguous properties) owned		
or controlled by the applicant or project sponsor?	0 acres	
 c. Is the proposed action an expansion of an existing project or use? <i>i.</i> If Yes, what is the approximate percentage of the proposed expansion square feet)? % Units: 	n and identify the units (e.g., acres, miles, housing u	
d. Is the proposed action a subdivision, or does it include a subdivision?	□Yes	ZNo
If Yes,		
<i>i</i> . Purpose or type of subdivision? (e.g., residential, industrial, commerc	sial; if mixed, specify types)	
<i>ii.</i> Is a cluster/conservation layout proposed?	□Yes	No
<i>iii</i> . Number of lots proposed?		
iv. Minimum and maximum proposed lot sizes? Minimum	_ Maximum	
e. Will the proposed action be constructed in multiple phases?	Yes	ZNo
<i>i</i> . If No, anticipated period of construction:	2 months	
<i>ii.</i> If Yes:		
• Total number of phases anticipated	\	
• Anticipated commencement date of phase 1 (including demolitie	·	
Anticipated completion date of final phase	monthyear	1
Generally describe connections or relationships among phases, in determine timing or duration of future phases:	ncluding any contingencies where progress of one p	hase may

	ct include new resid				□Yes ☑ No
If Yes, show nur	nbers of units prope				
	One Family	<u>Two Family</u>	Three Family	Multiple Family (four or more)	
Initial Phase					
At completion					
of all phases					
or un phuses					
g. Does the prop	osed action include	new non-residenti	al construction (inclu	uding expansions)?	✓ Yes No
If Yes,			× ×		
<i>i</i> . Total numbe	r of structures	2			
ii. Dimensions	(in feet) of largest p	roposed structure:	13.5' height;	<u>10'</u> width; and <u>10'</u> length	
<i>iii</i> . Approximate	extent of building	space to be heated	or cooled:	<u> </u>	
				ll result in the impoundment of any	
					☐ Yes Z No
	is creation of a wate	er supply, reservoii	, pond, lake, waste l	agoon or other storage?	
If Yes,	· · · · · · · · · · · · · · · · · · ·				
<i>i</i> . Purpose of th	e impoundment:	· 1	Г	Ground water Surface water stream	
<i>ii</i> . If a water imp	boundment, the prin	cipal source of the	water:	_ Ground water _ Surface water stream	ns Other specify:
iii If other there	voton identify the t	una af imm ann dad	antained liquida an	d their sevree	
<i>III</i> . II other than	water, identify the ty	ype of impounded	contained liquids an	a their source.	
in Approximate	size of the propose	dimpoundmont	Volumo	million collong: curfage areas	0.0#20
<i>iv.</i> Approximate	f the proposed dam	a impoundment.		million gallons; surface area: height; length	acres
V. Dimensions o	mathad/matariala	for the memoread d	ructure:	ructure (e.g., earth fill, rock, wood, cond	mata).
<i>vi.</i> Construction	method/materials	for the proposed da	am or impounding si	ructure (e.g., earth III, rock, wood, cond	crete):
D.2. Project Op	berations				
a. Does the prop	osed action include	any excavation, m	ining, or dredging, d	luring construction, operations, or both?	Yes No
(Not including	general site prepar	ation, grading or in	nstallation of utilities	s or foundations where all excavated	
materials will					
If Yes:	,				
<i>i</i> . What is the p	urpose of the excava	ation or dredging?			
				to be removed from the site?	
	hat duration of time				
			a avaguated or drad	ged, and plans to use, manage or dispose	of them
			be excavated of theu	ged, and plans to use, manage of dispose	e of them.
iv Will there be	e onsite dewatering	or processing of e	xcavated materials?		Yes No
ii yes, deser					
					· · · · · · · · · · · · · · · · · · ·
v. what is the to	Stal area to be dredg	ged or excavaled?		acres	
<i>vi.</i> what is the h	haximum area to be	worked at any one		acres	
			or dredging?	feet	
	avation require blas				☐Yes ☐No
<i>ix</i> . Summarize si	te reclamation goals	s and plan:			
					·····
b. Would the pro	posed action cause	or result in alterati	on of, increase or de	ccrease in size of, or encroachment	Yes √ No
			ach or adjacent area?		
If Yes:	8	J)	J		
	vetland or waterbod	ly which would be	affected (by name.	water index number, wetland map numb	er or geographic
					0 0 1
r).	<u> </u>	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placeme alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in squ	
<i>iii.</i> Will the proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	□Yes□No
iv. Will the proposed action cause or result in the destruction or removal of aquatic vegetation?	☐ Yes ☐ No
If Yes:	
acres of aquatic vegetation proposed to be removed:	
 expected acreage of aquatic vegetation remaining after project completion: purpose of proposed removal (e.g. beach clearing, invasive species control, boat access): 	
purpose of proposed removal (e.g. beach cleaning, invasive species control, boat access).	
• proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	
c. Will the proposed action use, or create a new demand for water?	Yes 🖌 No
If Yes: i. Total anticipated water usage/demand per day: gallons/day	
<i>ii.</i> Will the proposed action obtain water from an existing public water supply?	□Yes □No
If Yes:	
• Name of district or service area:	
• Does the existing public water supply have capacity to serve the proposal?	Yes No
• Is the project site in the existing district?	□ Yes□ No
• Is expansion of the district needed?	□ Yes□ No
• Do existing lines serve the project site?	□ Yes□ No
iii. Will line extension within an existing district be necessary to supply the project?	□Yes □No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	
Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	☐ Yes ☐No
 Applicant/sponsor for new district: Date application submitted or anticipated: 	
 Proposed source(s) of supply for new district: v. If a public water supply will not be used, describe plans to provide water supply for the project: 	
<i>v</i> . If a public water supply will not be used, describe plans to provide water supply for the project:	·····
<i>vi</i> . If water supply will be from wells (public or private), what is the maximum pumping capacity:	-
d. Will the proposed action generate liquid wastes?	☐ Yes √ No
If Yes:	
<i>i.</i> Total anticipated liquid waste generation per day: gallons/day	1
<i>ii.</i> Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all approximate volumes or proportions of each):	
<i>iii.</i> Will the proposed action use any existing public wastewater treatment facilities?	□ Yes □No
If Yes:	
Name of wastewater treatment plant to be used:	
 Name of district: Does the existing wastewater treatment plant have capacity to serve the project? 	☐ Yes ☐No
 Does the existing wastewater treatment plant have capacity to serve the project? Is the project site in the existing district? 	$\Box Y es \Box No$
 Is expansion of the district needed? 	\square Yes \square No

• Do existing sewer lines serve the project site?	□Yes□No
• Will a line extension within an existing district be necessary to serve the project?	□ Yes □ No
If Yes:	
 Describe extensions or capacity expansions proposed to serve this project: 	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	□Yes□No
If Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
What is the receiving water for the wastewater discharge?	
v. If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec	ifving proposed
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	5 61 1
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	☐Yes 7 No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
<i>i</i> . How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or acres (impervious surface) Square feet or acres (parcel size)	
<i>ii.</i> Describe types of new point sources.	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent p	roperties,
groundwater, on-site surface water or off-site surface waters)?	1 ,
<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
If to surface waters, identify receiving water bodies or wetlands:	
• Will stormwater runoff flow to adjacent properties?	□Yes□No
<i>iv.</i> Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	☐ Yes ☐ No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	□Yes ☑ No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	□Yes Z No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
<i>i</i> . Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
ii. In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
• Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
• Tons/year (short tons) of Perfluorocarbons (PFCs)	
• Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)?	☐Yes ∕ No
If Yes:	
<i>i</i> . Estimate methane generation in tons/year (metric):	
ii. Describe any methane capture, control or elimination measures included in project design (e.g., combustion to g	generate heat or
electricity, flaring):	
i. Will the proposed action result in the release of air pollutants from open-air operations or processes, such as	☐Yes √ No
quarry or landfill operations?	
If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust):	
j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial	☐Yes ∑ No
new demand for transportation facilities or services? If Yes:	
<i>i</i> . When is the peak traffic expected (Check all that apply):	
\square Randomly between hours of to .	
Randomly between hours of to <i>ii.</i> For commercial activities only, projected number of truck trips/day and type (e.g., semi trailers and dump truck	<s):< td=""></s):<>
<i>iii.</i> Parking spaces: Existing Proposed Net increase/decrease	
<i>iv.</i> Does the proposed action include any shared use parking?	□Yes □No
v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing	access, describe:
<i>vi.</i> Are public/private transportation service(s) or facilities available within ½ mile of the proposed site?	□Yes No
<i>vii</i> Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles?	□Yes□No
<i>viii.</i> Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing	☐Yes ☐No
pedestrian or bicycle routes?	
k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand	∐Yes √ No
for energy?	
If Yes:	
<i>i</i> . Estimate annual electricity demand during operation of the proposed action:	
<i>ii.</i> Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/	local utility, or
other):	
<i>iii.</i> Will the proposed action require a new, or an upgrade, to an existing substation?	Yes No
l. Hours of operation. Answer all items which apply.	
<i>i</i> . During Construction: <i>ii</i> . During Operations:	
Monday - Friday: 8am-5pm Monday - Friday: 24/7/365 (unmanned	facility)
Saturday: Saturday:	
• Sunday: • Sunday:	
Holidays: Holidays:	

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction,	☐ Yes Z No
operation, or both? If yes:	
<i>i</i> . Provide details including sources, time of day and duration:	
<i>ii.</i> Will the proposed action remove existing natural barriers that could act as a noise barrier or screen?	□Yes□No
Describe:	
n. Will the proposed action have outdoor lighting?	Yes V No
If yes:	
<i>i</i> . Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
<i>ii.</i> Will proposed action remove existing natural barriers that could act as a light barrier or screen? Describe:	☐ Yes Z No
o. Does the proposed action have the potential to produce odors for more than one hour per day?	☐ Yes Z No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest	
occupied structures:	
p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons)	☐ Yes Z No
or chemical products 185 gallons in above ground storage or any amount in underground storage?	
If Yes: <i>i</i> . Product(s) to be stored	
<i>ii</i> . Volume(s) per unit time (e.g., month, year)	
<i>iii</i> . Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides,	Yes V No
insecticides) during construction or operation?	
If Yes: <i>i</i> . Describe proposed treatment(s):	
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices?	Yes No
r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)?	🗌 Yes 💋 No
If Yes:	
<i>i</i> . Describe any solid waste(s) to be generated during construction or operation of the facility:	
 Construction: tons per (unit of time) Operation : tons per (unit of time) 	
ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waster	:
Construction:	
Operation:	
 <i>iii.</i> Proposed disposal methods/facilities for solid waste generated on-site: Construction:	
Operation:	
	······

s. Does the proposed action include construction or mod	ification of a solid waste mana	agement facility?	🗌 Yes 🖌 No
If Yes:			1 1011
<i>i</i> . Type of management or handling of waste proposed	for the site (e.g., recycling or	transfer station, compostin	g, landfill, or
other disposal activities):			
Anticipated rate of disposal/processing. Tons/month, if transfer or other non-	combustion/thermal treatment	or	
Tons/hour, if combustion or thermal		, 01	
<i>iii.</i> If landfill, anticipated site life:			
		1. 1 01 1	
t. Will the proposed action at the site involve the comme waste?	ercial generation, treatment, sto	orage, or disposal of hazard	lous Yes No
If Yes:			
<i>i</i> . Name(s) of all hazardous wastes or constituents to be	e generated, handled or manag	red at facility:	
	- g,		
ii. Generally describe processes or activities involving l	hazardous wastes or constituer	nts:	
iii Creatify amount to be handled or concreted t	ana/maanth		
<i>iii.</i> Specify amount to be handled or generatedt to iv. Describe any proposals for on-site minimization, rec	ons/monul voling or reuse of hazardous of	constituents.	
<i>iv.</i> Describe any proposals for on-site minimization, rec	Syching of reuse of nazardous e		
			· · · · · · · · · · · · · · · · · · ·
v. Will any hazardous wastes be disposed at an existing			☐ Yes ☐ No
If Yes: provide name and location of facility:			
If No: describe proposed management of any hazardous	wastes which will not be sent	to a hazardous waste facilit	ty:
E. Site and Setting of Proposed Action			
E.1. Land uses on and surrounding the project site			
a. Existing land uses.			
<i>i</i> . Check all uses that occur on, adjoining and near the			
🗹 Urban 🔲 Industrial 🗹 Commercial 🔲 Resid		(non-farm)	
□ Forest □ Agriculture ☑ Aquatic ☑ Other (specify): Recreation			
<i>ii</i> . If mix of uses, generally describe:			
b. Land uses and covertypes on the project site.			
	Current	Acreage After	Change
b. Land uses and covertypes on the project site. Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)

Covertype	Acreage	Project Completion	(Acres +/-)
• Roads, buildings, and other paved or impervious surfaces	+/-0.43	+/-0.43	0
• Forested			
• Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural)			
• Agricultural (includes active orchards, field, greenhouse etc.)			
• Surface water features (lakes, ponds, streams, rivers, etc.)			
• Wetlands (freshwater or tidal)			
• Non-vegetated (bare rock, earth or fill)			
Other Describe:			

c. Is the project site presently used by members of the community for public recreation? <i>i.</i> If Yes: explain:	□Yes√No
 d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: Lil' Firecrackers, The Sentinel of Amsterdam Assisted Living Community, St. Joseph's School, St Mary's Institute Alumni 	∀ Yes N o
e. Does the project site contain an existing dam?	☐ Yes 7 No
If Yes: <i>i</i> . Dimensions of the dam and impoundment:	
Dam height: feet	
• Dam length: feet	
Surface area: acres	
Volume impounded: gallons OR acre-feet	
<i>ii</i> . Dam's existing hazard classification: <i>iii</i> . Provide date and summarize results of last inspection:	
<i>III.</i> Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil If Yes:	☐Yes / No lity?
<i>i</i> . Has the facility been formally closed?	□Yes□ No
• If yes, cite sources/documentation:	
<i>ii</i> . Describe the location of the project site relative to the boundaries of the solid waste management facility:	
<i>iii.</i> Describe any development constraints due to the prior solid waste activities:	
<i>III.</i> Describe any development constraints due to the prior solid waste activities:	
g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste?	☐Yes ∕ No
If Yes:	
i. Describe waste(s) handled and waste management activities, including approximate time when activities occurr	ed:
 h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? If Yes: 	☑Yes□ No
<i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site	✓ Yes No
Remediation database? Check all that apply:	
Yes – Spills Incidents database Provide DEC ID number(s):	
 ✓ Yes – Environmental Site Remediation database Provide DEC ID number(s): <u>429008</u>, E429011, V003 Neither database 	67
<i>ii</i> . If site has been subject of RCRA corrective activities, describe control measures:	
	· · · · · · · · · · · · · · · · · · ·
<i>iii</i> . Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): <u>429008</u> , E429011, V00367	√ Yes No
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):	
429008: Providing that the 2006 remedy is maintained, the site itself no longer presents an environmental threat, E429011: Complet V00367: Providing that the 2006 remedy is maintained, the site itself no longer presents an environmental threat.	tion date12/01/2015,

v. Is the project site subject to an institutional control limiting property uses?	☐ Yes Z N	lo
If yes, DEC site ID number:		
 Describe the type of institutional control (e.g., deed restriction or easement): Describe any use limitations: 		
• Describe any engineering controls:		
• Will the project affect the institutional or engineering controls in place?	☐ Yes √ N	lo
• Explain:		
E.2. Natural Resources On or Near Project Site		
	a feet	
b. Are there bedrock outcroppings on the project site?	Yes √ N	0
If Yes, what proportion of the site is comprised of bedrock outcroppings?	%	10
c. Predominant soil type(s) present on project site:n/a (project is on existing building)	%	
	⁰ / ₀	
d. What is the average depth to the water table on the project site? Average: n/a fe		
e. Drainage status of project site soils: Well Drained: n/a % of site Moderately Well Drained: % of site		
Poorly Drained % of site		
f. Approximate proportion of proposed action site with slopes: 🔽 0-10%:	100 % of site	
□ 10-15%: □ 15% or greater:	% of site % of site	
		r
g. Are there any unique geologic features on the project site? If Yes, describe:	☐ Yes Z N	0
h. Surface water features.		
i. Does any portion of the project site contain wetlands or other waterbodies (including str	eams, rivers, □Yes	lo
ponds or lakes)? <i>ii.</i> Do any wetlands or other waterbodies adjoin the project site?	√ Yes N	I.o.
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.		10
<i>iii.</i> Are any of the wetlands or waterbodies within or adjoining the project site regulated by	any federal, \Box Yes \Box N	lo
state or local agency?		
 <i>iv.</i> For each identified regulated wetland and waterbody on the project site, provide the fol Streams: Name	owing information: Classification	
• Lakes or Ponds: Name	Classification	
Wetlands: Name Riverine	Approximate Size 8,812 Acres	
 Wetland No. (if regulated by DEC) <u>R2UBH</u> v. Are any of the above water bodies listed in the most recent compilation of NYS water quarter for the most recent compila	ality-impaired 🗌 Yes 🖉 N	lo
waterbodies? If yes, name of impaired water body/bodies and basis for listing as impaired:		
If yes, name of imparted water body/bodies and basis for fisting as imparted.		
i. Is the project site in a designated Floodway?	∐Yes Z N	lo
j. Is the project site in the 100-year Floodplain?	∐Yes ∠ N	ю
k. Is the project site in the 500-year Floodplain?	∐Yes Z N	lo
l. Is the project site located over, or immediately adjoining, a primary, principal or sole sou	The aquifer? \Box Yes \Box N	ю
If Yes: <i>i</i> . Name of aquifer: Principal aquifer		
1 <u>· · · ·</u>		

 Identify the predominant wildlife species Various birds 			
	Small rodents		
n. Does the project site contain a designated	significant natural community?		☐ Yes √ No
If Yes:	significant natural community.		
<i>i</i> . Describe the habitat/community (composition)	sition, function, and basis for design	ation):	
		· · · · · · · · · · · · · · · · · · ·	
<i>ii</i> . Source(s) of description or evaluation:			
<i>iii</i> . Extent of community/habitat:			
• Currently:		acres	
• Following completion of project as	proposed:	acres	
• Gain or loss (indicate + or -):		acres	
o. Does project site contain any species of pl	ant or animal that is listed by the fee	leral government or NVS as	✔ Yes No
endangered or threatened, or does it contai	n any areas identified as habitat for	an endangered or threatened speci	
If Yes:	in any areas racinined as nacital for	an endungered of uncatened speer	
<i>i.</i> Species and listing (endangered or threatene	d):		
	u)		
Peregrine Falcon			
p. Does the project site contain any species	of plant or animal that is listed by N	VS as rare, or as a species of	☐ Yes √ No
special concern?		is as faire, of as a species of	
If Yes:			
<i>i</i> . Species and listing:			
			· · · · · · · · · · · · · · · · · · ·
q. Is the project site or adjoining area current	ly used for hunting tranning fishin	g or shell fishing?	∐Yes √ No
If yes, give a brief description of how the pro-			
<i>j</i> , 8			
E.3. Designated Public Resources On or N	Near Project Site		
a. Is the project site, or any portion of it, loca	ated in a designated agricultural dist	rict certified pursuant to	∐ Yes ∑ No
Agriculture and Markets Law, Article 25-		1	
If Yes, provide county plus district name/nu			
b. Are agricultural lands consisting of highly			∐ Yes ∑ No
<i>i</i> . If Yes: acreage(s) on project site?			
<i>ii.</i> Source(s) of soil rating(s):			
c. Does the project site contain all or part of	; or is it substantially contiguous to,	a registered National	∐ Yes ∑ No
Natural Landmark?			
If Yes:			
<i>i</i> . Nature of the natural landmark:			
ii. Provide brief description of landmark, in			
			· · · · · · · · · · · · · · · · · · ·
d. Is the project site located in or does it adjo	oin a state listed Critical Environmen	ital Area?	☐ Yes √ No
If Yes:			
<i>i</i> . CEA name:			
<i>ii</i> . Basis for designation:			
<i>iii</i> . Designating agency and date:			

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissi	Yes No
Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Pl	aces?
If Yes:	
<i>i</i> . Nature of historic/archaeological resource: Archaeological Site // Historic Building or District <i>ii</i> . Name: First National Bank Building	
<i>iii.</i> Brief description of attributes on which listing is based:	
USN Number: 05740.000380	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for	☐Yes Z No
archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	
g. Have additional archaeological or historic site(s) or resources been identified on the project site?	☐ Yes 7 No
If Yes:	
<i>i</i> . Describe possible resource(s):	
<i>ii</i> . Basis for identification:	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	✓ Yes □ No
If Yes:	
<i>i</i> . Identify resource: Riverlink Park, Mohawk Valley Gateway Overlook Pedestrian Bridge, Kirk Douglas Park, Amsterdam Rec	reation Office
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or	
	scenic byway,
etc.): Local park, Pedestrian overlook	
<i>iii.</i> Distance between project and resource:25 miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	☐ Yes 7 No
If Yes:	
<i>i</i> . Identify the name of the river and its designation:	
<i>ii.</i> Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	□ Yes □ No
<i>u</i> . Is the activity consistent with development restrictions contained in onviron (1 at 000)	

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

Applicant/Sponsor Name Steven Matthews, Engineer for applicant

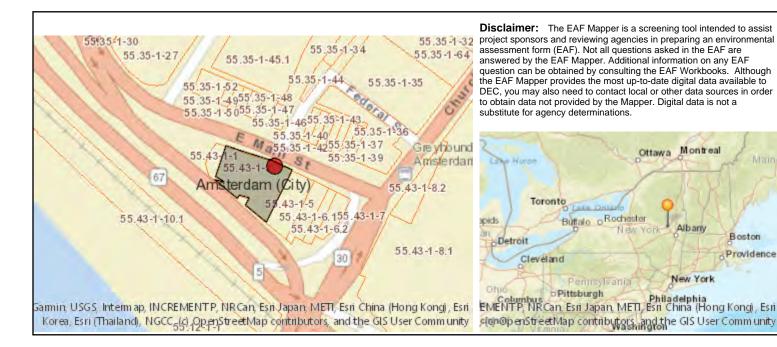
Date 10/26/2020

Steven Matthews

Signature

Title Manager of Engineering

EAF Mapper Summary Report



B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	Yes
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas:Mohawk Valley Heritage Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	429008, E429011, V00367
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	No
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Principal Aquifer

E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	Yes
E.2.o. [Endangered or Threatened Species - Name]	Peregrine Falcon
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	No
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Yes - Digital mapping data for archaeological site boundaries are not available. Refer to EAF Workbook.
E.3.e.ii [National or State Register of Historic Places or State Eligible Sites - Name]	Eligible property:FIRST NATIONAL BANK BLDG, Eligible property:First National Bank Bldg, Eligible property:McClumpha Block, 3 story, Italiante, brick, commer, Eligible property:[Former Wrestling Hall of Fame], Eligible property:late 19th c, 3 bay, 6 story comm/resd. Italianate cornice, Eligible property:Farmers' National Bank. 1875. Italianate., 3 story comm/resd. Italiante cornice, 3 story comm/resd. Italianate cornice, Enlarged Erie Barge Canal Nominated by NPS (2014), US Post OfficeAmsterdam
E.3.f. [Archeological Sites]	Yes
E.3.i. [Designated River Corridor]	No

BUILDING AND ROOFTOP LEASE AGREEMENT

This Building and Rooftop Lease Agreement (the "Agreement") made this _____ day of ______, 2020, between CRANESVILLE PROPERTIES, L.L.C., with its principal offices located at 1250 Riverfront Center, Amsterdam, New York 12010, hereinafter designated LESSOR and CELLCO PARTNERSHIP d/b/a Verizon Wireless with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. <u>GRANT</u>. In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to install, maintain and operate communications equipment ("Use") in and/or upon that certain building or facility owned, leased or controlled by LESSOR at 27-31 Main Street, City of Amsterdam, Montgomery County, New York, tax id # 55.43-1-3 (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. LESSEE's communications equipment will be installed on a portion of the Property consisting of approximately 375 square feet of floor space on the existing platform and within the existing shelter, approximately 200 square feet of rooftop space on the building and wall space on the penthouse (the "Premises"). The Premises are shown in detail on Exhibit "B" attached hereto and made a part hereof.

2. <u>INITIAL TERM</u>. This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for 5 years beginning on the Commencement Date (as hereinafter defined). The "Commencement Date" shall be the first day of the month after LESSEE begins installation of LESSEE's communications equipment.

3. <u>EXTENSIONS</u>. This Agreement shall automatically be extended for 4 additional 5-year terms unless Lessee terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least 3 months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. <u>RENTAL</u>.

a. Rental payments shall begin on the Commencement Date and be due at a total annual rental of **Sector**, to be paid in equal monthly installments on the first day of the month, in advance, to LESSOR at 1250 Riverfront Center, Amsterdam, NY 12010 or to such other person, firm, or place as LESSOR may, from time to time, designate in writing at least 30 days in advance of any rental payment date by notice given in accordance with Paragraph 22 below. LESSOR and LESSEE acknowledge and agree that the initial rental payment shall not be delivered by LESSEE until 90 days after the Commencement Date. Upon agreement of the

Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

b. LESSEE shall pay LESSOR, within ninety (90) days of full execution of this Agreement, a one-time signing bonus, as additional rent, in the sum of **biology**.

c. For any party to whom rental payments are to be made, LESSOR or any successor in interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of Internal Revenue Service Form W-9, or equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

d. The annual rental for each five (5) year extension term shall be equal to for the annual rental payable with respect to the immediately preceding five (5) year term.

ACCESS. LESSEE shall have the non-exclusive right of ingress and egress from 5. a public right-of-way, 7 days a week, 24 hours a day, over the Property to and from the Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment. Without limitation, the Premises may include certain space within the building, on the roof of the building or elsewhere on the building sufficient for the installation, operation and maintenance of communications equipment. Notwithstanding anything to the contrary, the Premises shall include (1) such additional space necessary for the installation, operation and maintenance of wires, cables, conduits and pipes running between and among the various portion of the Premises and to all necessary electrical, telephone, fiber and other similar support services located within the Property or the nearest public right of way, and (2) such additional space sufficient for LESSEE's radio frequency signage and/or barricades as are necessary to ensure LESSEE's compliance with Laws (as defined in Paragraph 29). In the event it is necessary, LESSOR agrees to grant LESSEE or the support services provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR.

6. <u>CONDITION OF PROPERTY</u>. LESSOR shall deliver the Premises to LESSEE in a condition ready for LESSEE's Use and clean and free of debris. LESSOR represents and warrants to LESSEE that as of the Effective Date, the structure of the building (including without limitation the roof, foundations and exterior walls), the common areas and all building systems (including, without limitation, the plumbing, electrical, ventilating, air conditioning, heating, and loading doors, if any) are (a) in good operating condition and free of any leakage; (b) in compliance with all Laws; and (c) in compliance with all EH&S Laws (as defined in Paragraph 26).

7. <u>ELECTRICAL</u>.

a. If permitted by the local utility company serving the Premises, LESSEE shall furnish and install an electrical meter at the Premises for the measurement of electrical power used by LESSEE at the Premises and LESSEE shall pay the utility company directly.

b. If an electrical meter is not permitted, then LESSEE may furnish and install an electrical sub-meter at the Premises for the measurement of electrical power used by LESSEE at the Premises and shall pay the utility company directly if permitted by the utility company.

c. In the event a sub-meter is installed and the utility company will not permit LESSEE to pay the utility company directly, then LESSOR shall read LESSEE's submeter on a monthly basis and provide LESSEE with an invoice for LESSEE's power consumption on an annual basis. Each invoice shall reflect charges only for LESSEE's power consumption based on the average kilowatt hour rate actually paid by LESSOR to the utility, without mark up or profit.

d. All invoices for power consumption shall be sent by LESSOR to LESSEE at Verizon Wireless, M/S 3846, P.O. Box 2375, Spokane, WA 99210-2375, and shall be provided to LESSEE within 90 days following the conclusion of each calendar year (otherwise, LESSOR waives the right to collect applicable electrical charges). Upon written request from LESSEE, LESSOR shall provide copies of electricity bills received by LESSOR during any period that LESSOR submits invoices to LESSEE for reimbursement and for that same period LESSEE shall provide documentation of the sub-meter readings applicable to such periods. LESSEE shall pay each invoice within 45 calendar days after receipt of the invoice from LESSOR.

e. LESSEE shall be permitted to install, maintain and/or provide access to and use of, as necessary (during any power interruption at the Premises), a temporary power source, and all related equipment and appurtenances within the Premises, or elsewhere on the Property in such locations as reasonably approved by LESSOR. LESSEE shall have the right to install conduits connecting the temporary power source and related appurtenances to the Premises.

8. <u>IMPROVEMENTS</u>. The communications equipment including, without limitation, antennas, conduits, and other improvements shall be at LESSEE's expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, antennas, conduits or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

9. <u>GOVERNMENT APPROVALS</u>. LESSEE's Use is contingent upon LESSEE obtaining all of the certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory structural analysis of the building or other

structure that will permit LESSEE's Use. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals, and acknowledges, consents to and joins in any application for Government Approvals and authorizes LESSEE to execute any documents required in furtherance of such applications. LESSOR shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

10. <u>TERMINATION</u>. LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Premises is obsolete or unnecessary; (vi) with 3 months prior notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

11. <u>MAINTENANCE</u>. LESSEE will maintain LESSEE's communications equipment within the Premises in good condition, reasonable wear and tear and casualty damage excepted. LESSOR shall maintain, in good operating condition and repair, the structural elements of the building and the Premises, and all building systems (including, but not limited to, the foundations, exterior walls, structural condition of interior bearing walls, exterior roof, fire sprinkler and/or standpipe and hose or other automatic fire extinguishing system, fire hydrants, parking lots, walkways, parkways, driveways, landscaping, fences, signs and utility systems serving the common areas) and the common areas.

INDEMNIFICATION. Subject to Paragraph 13, each Party shall indemnify and 12. hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnifying Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written notice of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any indemnified Party, at the indemnified Party's request, against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgment without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

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13. <u>INSURANCE</u>.

a. The Parties agree that at their own cost and expense, each will maintain commercial general liability insurance with limits not less than \$2,000,000 for injury to or death of one or more persons in any one occurrence and \$2,000,000 for damage or destruction to the building in any one occurrence. The Parties agree to include the other Party as an additional insured. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

b. LESSOR shall obtain and keep in force during the Term a policy or policies insuring against loss or damage to the building with a commercially reasonable valuation, as the same shall exist from time to time without a coinsurance feature. LESSOR's policy or policies shall insure against all risks of direct physical loss or damage (except the perils of flood and earthquake unless required by a lender or included in the base premium), including coverage for any additional costs resulting from debris removal and reasonable amounts of coverage for the enforcement of any ordinance or law regulating the reconstruction or replacement of any undamaged sections of the building required to be demolished or removed by reason of the enforcement of any building, zoning, safety or land use laws as the result of a covered loss, but not including plate glass insurance.

14. <u>LIMITATION OF LIABILITY</u>. Except for indemnification pursuant to Paragraphs 12 and 26, a violation of Paragraph 31, or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

15. INTERFERENCE.

a. LESSEE agrees that LESSEE will not cause interference that is measurable in accordance with industry standards to LESSOR's equipment. LESSOR agrees that LESSOR and other occupants of the Property will not cause interference that is measurable in accordance with industry standards to the then existing equipment of LESSEE.

b. Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of 48 hours following notice to the interfering party via telephone to LESSEE'S Network Operations Center (at (800) 224-6620/(800) 621-2622) or to

LESSOR at (518-684-6007), the interfering party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured.

c. The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

16. <u>REMOVAL AT END OF TERM</u>. Upon expiration or within 90 days of earlier termination, LESSEE shall remove LESSEE's communications equipment and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

17. <u>HOLDOVER</u>. If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental in effect as of the date of the expiration of the Term. In the event that the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

RIGHT OF FIRST REFUSAL. If at any time after the Effective Date, LESSOR 18. receives an offer or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities, to purchase fee title, an easement, a lease, a license, or any other interest in the Premises or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written notice to LESSEE of said offer ("LESSOR's Notice"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion of and interest in the Premises and/or this Agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written notice to LESSOR that LESSEE intends to meet such bona fide offer within thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with notice of LESSEE's intention to meet the third party offer within thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE may require a reasonable period of time to conduct due diligence and effectuate the closing of a transaction on substantially equivalent financial terms of the thirdparty offer. LESSEE may elect to amend this Agreement to effectuate the proposed financial terms of the third party offer rather than acquiring fee simple title or an easement interest in the Premises. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right The intent of this paragraph is to prevent LESSOR from selling, leasing or of first refusal. granting an interest in all or a portion of the Premises, or assigning the lease, to a company that specializes in owning, managing or operating telecommunications facilities without giving LESSEE a right of first refusal to meet the offer or to grant LESSEE's approval, while this lease is in effect.

19. <u>RIGHTS UPON SALE</u>. Should LESSOR, at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

20. <u>LESSOR'S TITLE.</u> LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easements, restrictions or other impediments of title that will adversely affect LESSEE's Use.

21. <u>ASSIGNMENT</u>. Without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to (i) any entity in which the Party directly or indirectly holds an equity or similar interest; (ii) any entity which directly or indirectly holds an equity or similar interest in the Party; or (iii) any entity directly or indirectly under common control with the Party. LESSEE may assign this Agreement to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization without approval or consent of LESSOR. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the other Party, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of either Party shall constitute an assignment hereunder. LESSEE is prohibited from subletting all or a portion of the Premises.

22. <u>NOTICES</u>. Except for notices permitted via telephone in accordance with Paragraph 15, all notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):

LESSOR:	Cranesville Properties, L.L.C. 1250 Riverfront Center Amsterdam, New York 12010
LESSEE:	Cellco Partnership d/b/a Verizon Wireless 180 Washington Valley Road Bedminster, New Jersey 07921 Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

SUBORDINATION AND NON-DISTURBANCE. Within 15 days of the 23. Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the building, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in a form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the building, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the building and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

24. <u>DEFAULT</u>. It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within 30 days after written notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted 30 days and diligently pursue the cure to completion within 90 days after the initial written notice, or (ii) LESSOR fails to comply with this Agreement and the failure interferes with LESSEE's Use and LESSOR does not remedy the failure within 5 days after written notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted 5 days and diligently pursue the cure to completion within 15 days after the initial written notice. The cure periods set forth in this Paragraph 24 do not extend the period of time in which either Party has to cure interference pursuant to Paragraph 15 of this Agreement.

25. <u>REMEDIES</u>. In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within 30 days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

ENVIRONMENTAL. LESSEE shall conduct its business in compliance with all 26. applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless LESSOR from claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws or a release of any regulated substance to the environment except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of the Property and that LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location or, if LESSEE desires to remove at its own cost all or some the hazardous substances or materials (such as asbestos, lead containing materials or soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

27. <u>CASUALTY</u>. If a fire or other casualty damages the Property or the Premises and impairs LESSEE's Use, rent shall abate until LESSEE'S Use is restored. If LESSEE's Use is not restored within 45 days, LESSEE may terminate this Agreement.

28. <u>CONDEMNATION</u>. If a condemnation of any portion of the Property or Premises impairs LESSEE's Use, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs and, specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

29. <u>APPLICABLE LAWS</u>. During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all Laws relating to the Property, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

30. <u>TAXES</u>.

a. LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on LESSEE and required to be collected by LESSOR based on any service, rental space, or equipment provided by LESSOR to LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on LESSEE and required to be paid by LESSEE that are directly attributable to LESSEE's equipment or LESSEE's use and occupancy of the Premises. Payment shall be made by LESSEE within 60 days after presentation of a receipted bill and/or assessment notice which is the basis for such taxes or charges. LESSOR shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, assessments or other taxes or charges that are attributable to LESSOR's Property or any portion thereof imposed by any Government Entity.

b. LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

31. <u>NON-DISCLOSURE</u>. Except as otherwise permitted or reasonably required to carry out the intent of this Agreement (for example, in connection with obtaining Government Approvals), the Parties agree: this Agreement and any information exchanged between the Parties regarding the Agreement are confidential; they shall not provide copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law; and, if a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

32. <u>MOST FAVORED LESSEE</u>. LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within 30 days after the effective date of such offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering. LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

MISCELLANEOUS. This Agreement contains all agreements, promises and 33. understandings between LESSOR and LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either LESSOR or LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules. Except as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

34. <u>TEMPORARY EASEMENT</u>. LESSOR hereby grants LESSEE a temporary easement (the "Temporary Easement") to encumber a portion of the Property, all as shown on Exhibit "B" hereto (the "Temporary Easement Area"). The Parties acknowledge and agree that the Temporary Easement shall be for the purpose of clearing any rocks, dirt, brush, trees or other

vegetation, grading, excavation, and storing materials (including, without limitation, excavated soil and equipment) in order to allow for the construction and installation of LESSEE's communications facility as described herein. The Temporary Easement shall terminate upon completion of the construction and installation of LESSEE's communications facility and LESSEE shall return the Temporary Easement Area to as good a condition as is reasonably practicable considering the clearing and grading that is to be performed by LESSEE.

[Signature page follows. The remainder of this page is intentionally blank.]

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals on the dates below, effective the day and year first above written.

LESSOR: CRANESVILLE PROPERTIES, L.L.C.

By: Joe Tesiero Name: Member Its: 9-21-20 Date:

LESSEE: CELLCO PARTNERSHIP d/b/a Verizon Wireless

By:

Name: Andrew Allen

Its: Director Network Field Engineering

Date: _____

EXHIBIT "A"

DESCRIPTION OF PROPERTY

27-31 Main Street, City of Amsterdam, Montgomery County, New York Section 55.43 Block 1 Lot 3

4830-9209-6132.2

Schedule A Description

Title Number: AGT-20125-MO-Z

PARCEL 3: 27-31 East Main Street

ALL THOSE CERTAIN TRACTS OR PARCELS OF LAND, together with the buildings and improvements thereon situate in the City of Amsterdam, County of Montgomery and State of New York, more particularly bounded and described as follows:

PARCEL I: Northerly by the southerly margin of East Main Street; Easterly by lands heretofore conveyed by Esther Jackson, now deceased, to John C. Miller; Southerly by lands formerly owned by Adam W. Kline; said southerly line being the continuation of a straight line drawn along the rear walls of the brick stores formerly owned by A.H. Delmater, J. & H. Bell and A.V. Morris, to the westerly wall of the homestead house owned and occupied by Isaac Jackson in the year 1859, and thereafter and by him conveyed to Esther Jackson, and westerly by lands now or formerly owned by Abram V. Morris being the lot formerly occupied by the Merchant's National Bank Building and the alley in the rear thereof. The lot hereby conveyed is about 21 feet breadth in front and rear and about 85 feet deep.

Commencing at a point in the southerly side of East Main Street where PARCEL II: it was intersected by the division line between property formerly of First National Bank of Amsterdam and property formerly of S. & W.H. Sumberg and which point also marks the northeasterly corner of the first parcel conveyed in a deed from Amsterdam Urban Renewal Agency to National Commercial Bank and Trust Company, dated July 13, 1970 and recorded in the Montgomery County Clerk's Office on July 16, 1970 in Book 384 of Deeds at Page 164 and runs South 20° 49' 31" West along the easterly line of said parcel conveyed to National Commercial Bank and Trust Company, as aforesaid, a distance of 60.38 feet, plus or minus to a point; thence North 71° 10' 40" West and continuing along said parcel so conveyed to National Commercial Bank and Trust Company as aforesaid, a distance of 17.04 feet plus or minus, to a point; thence South 20° 53' 38" West and still along the parcel conveyed as aforesaid, a distance of 27.03 feet plus or minus, to a point; thence South 70° 48' 38" East and still along the parcel conveyed as aforesaid a distance of 68.05 feet; thence North 26° 38' 48" East along the westerly boundary of the second parcel described in the deed from the Amsterdam Urban Renewal Agency to National Commercial Bank and Trust Company recorded in the Montgomery County Clerk's Office on July 16, 1970 in Book 384 of Deeds at Page 164, a distance of 86.31 feet to a point in the southerly line of East Main Street; thence North 68° 59' 35" West along the southerly line of East Main Street a distance of 59.72 feet to the point and place of beginning.

TOGETHER with a right of way over, upon and along the alleyway which lies easterly of and adjoining the premises above described for the passage of persons and vehicles in common with others entitled thereto extending in a southerly direction from East Main Street to its intersection with any alleyway extending from such intersection westerly to Bridge Street. Title Number: AGT-20125-MO-Z

TOGETHER with a right of way over said last named alleyway from the aforesaid intersection to Bridge Street for the passage of persons and vehicles in common with others who are entitled to the use of said alleys. Also the right and easement to have each of said alleyways remain open and unobstructed from the surface thereof to the sky for the purpose of affording air and light to the above described real estate and to the buildings or structures thereon.

BEGINNING at a point in the southerly street margin of East Main PARCEL III: Street, which point is the intersection of said street margin, and the westerly property line of a parcel n/f owned by National Commercial Bank and Trust Company, running thence South 20° 49' 31" West, 60.38 feet plus or minus, to a point; thence North 70° 10' 40" West, 17.04 feet plus or minus, to a point; thence South 20° 53' 38" West, 27.03 feet plus or minus, to a point; thence South 70° 48' 38" East, 98.94 feet plus or minus, to a point; which point is the southeasterly corner of property n/f owned by the National Commercial Bank and Trust Company, all of the above lines and courses being boundaries between property hereby conveyed and property formerly owned by the National Commercial Bank and Trust Company; thence running South 27° 26' 13" West, 62.89 feet plus or minus, along the lands reputedly owned by 37 East main Street Corporation, to a point in the northerly boundary of lands owned by the State of New York, thence along the northerly boundary of lands of the State of New York; North 50° 04' 19" West, 44.87 feet plus or minus, to a point; thence continuing along the the northerly line of lands of the State of New York North 48° 42' 45" West, 21.73 feet plus or minus to a point on the easterly bank of Chuctanunda Creek; thence running North 24° 37' 00" East, 18.11 feet plus or minus, along the easterly bank of the creek to a point; thence running North 72° 58' 48" West, 23.0 feet plus or minus, to a point in the westerly bank of the creek; thence running South 33° 13' 08" West, 7.76 feet plus or minus, along the westerly bank of the creek to a point; thence running North 48° 41' 33" West, 21.74 feet plus or minus, along the northerly boundary of lands of the State of New York to a point; thence running North 48° 35' 20" West, 52.19 feet plus or minus, along the northerly boundary of lands of the State of New York to a point; thence running South 71° 41' 31" East, 19.99 feet plus or minus, to a point; thence running North 53° 32' 07" West, 22.06 feet plus or minus to a point; thence running North 18° 43' 32" East, 80.20 feet plus or minus, to a point in the southerly street margin to East Main Street; thence along the southerly street margin of East Main Street South 71° 31' 19" East, 85.08 feet plus or minus, to a point or place of beginning.

The aforesaid described property is encumbered by two permanent easements to the State of New York to be exercised in on and over the property hereinafter described for the purpose of construction, re-construction and maintaining thereon a stream channel, together with appurtenances. The property encumbered by said easements is described as follows:

(i) Easement east side of creek:

BEGINNING at a point on the east bank of the Chuctanunda Creek at its intersection with the northerly property line of the State of New York; thence running North 24° 37' 00" East, 18.11 feet along the east bank of the Chuctanunda Creek to a point; thence running South 71° 42' 30" East, 22.01 feet through the lands above described to a point; thence running South 26° 52' 16" West, 26.79 feet through the lands above Title Number: AGT-20125-MO-Z

described to a point in the northerly margin of lands of the State of New York; thence running North 48° 42' 45" West, along the northerly margin of the lands of the State of New York to the point and place of beginning and;

(ii) Easement west side of creek;

BEGINNING at a point on the west bank of the Chuctanunda Creek at its intersection with the northerly line of property of the State of New York; thence running North 48° 41' 33" West, along the northerly line of the property of the State of New York, 21.74 feet to a point; thence running South 69° 05' 49" East through the lands above described 22.03 feet to a point in the west bank of the Chuctanunda Creek; thence running South 33° 13' 08' West, 7.76 feet along the west bank of the Chuctanunda Creek to the point and place of beginning.

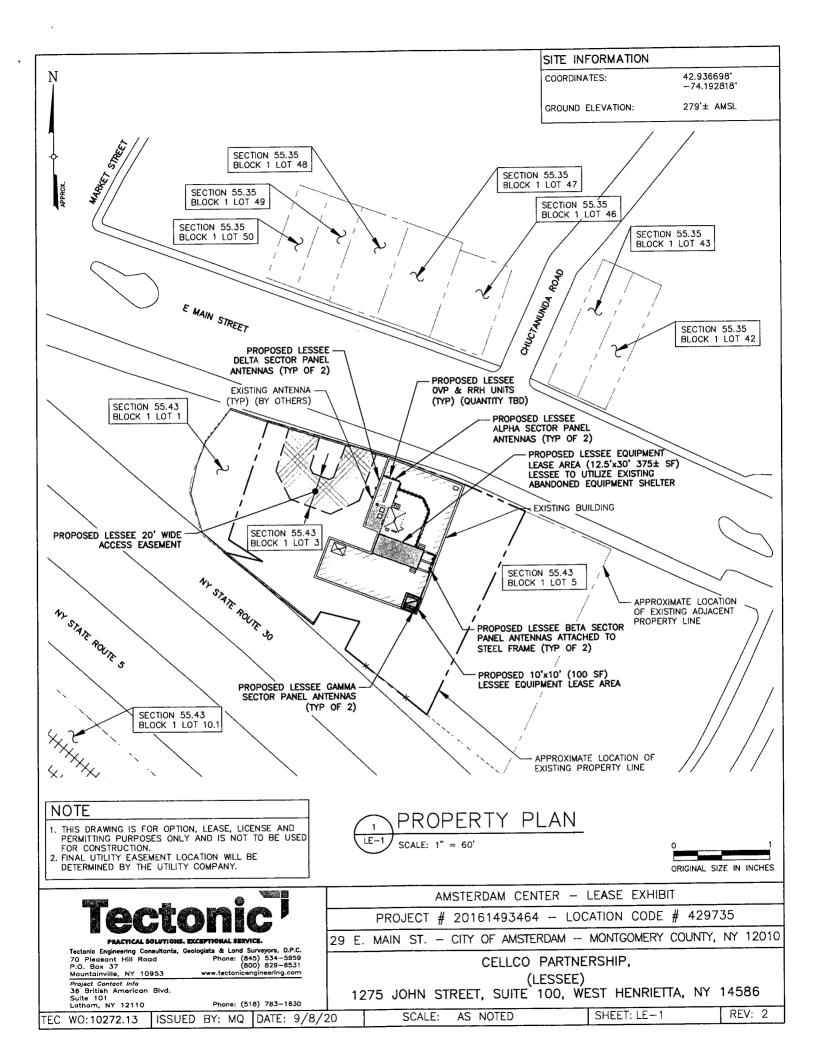
ALSO, ALL THAT PIECE OR PARCEL OF PROPERTY, situate in the City of Amsterdam, Montgomery County, New York and known and described as follows:

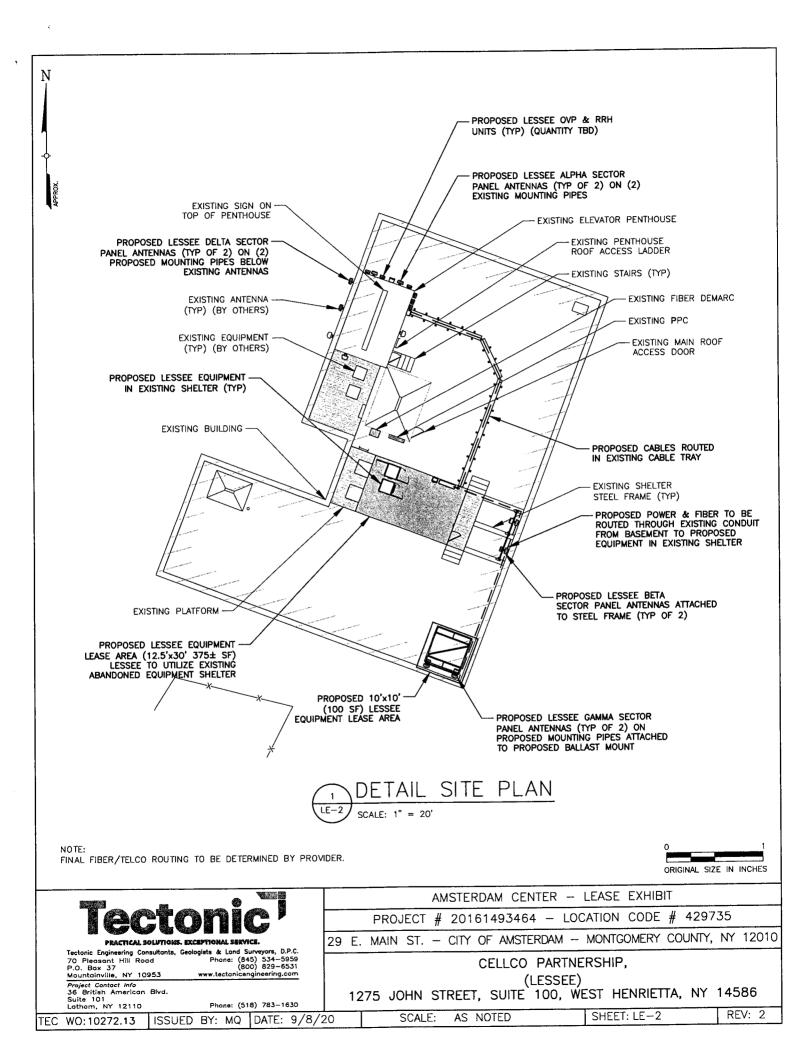
BEGINNING at a point in the easterly margin of property formerly owned by the National Commercial Bank and Trust Company and being the northeasterly corner of its bank building in the City of Amsterdam, New York where said northeasterly corner intersects the southerly street margin of East Main Street, and running thence South 68° 59' 35" East, 10.04 feet plus or minus, along the southerly margin of East Main Street to the northwesterly corner of property n/f owned by National Commercial Bank and Trust Company where said northwesterly corner intersects the southerly street margin of East Main Street to 85.00 feet plus or minus, along the westerly line of lands n/f National Commercial Bank and Trust Company to a point, which point is the southeasterly corner of the present bank building; thence North 26° 38' 48" East, 86.31 feet plus or minus, to the southerly margin of East Main Street, the point or place of beginning.

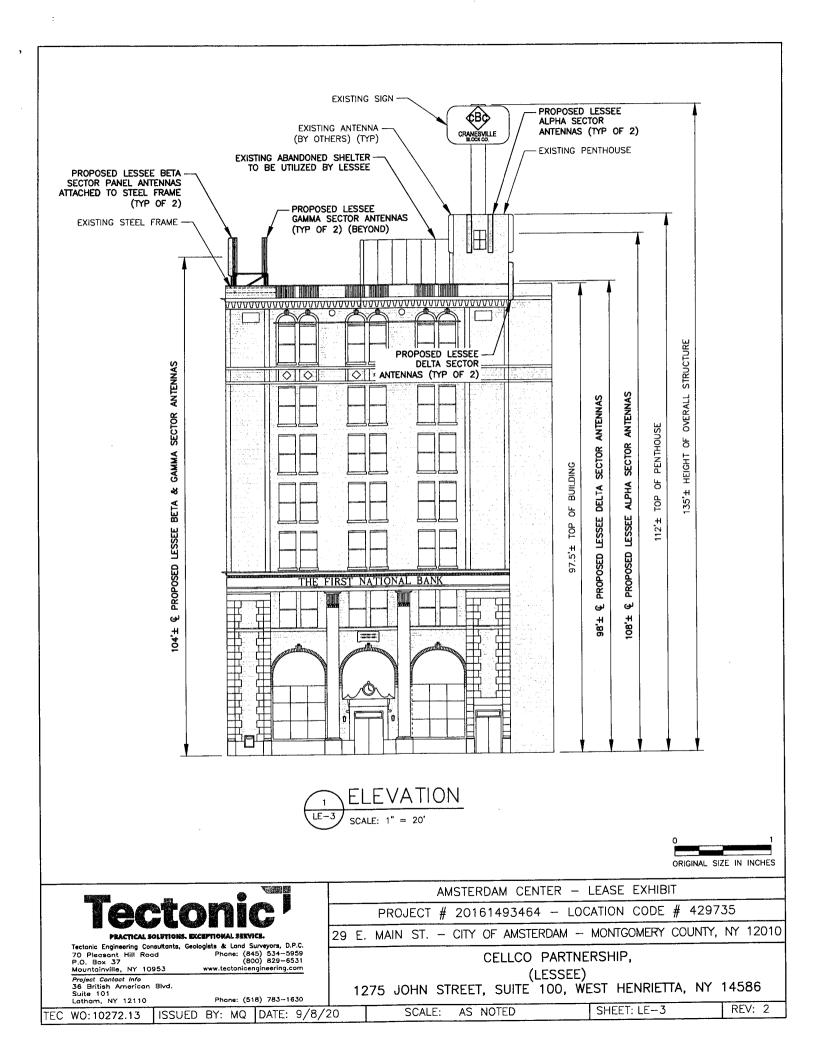
The above described premises is subject to a Right of Way Easement granted by Amsterdam Commercial Corporation to New York State Environmental Facilities Corporation dated October 3, 1973 and recorded in the Montgomery County Clerk's Office on October 15, 1973 in Book 398 of Deeds at Page 99.

EXHIBIT "B"

SITE PLAN OF PREMISES







DOCUMENTATION OF PUBLIC UTILITY STATUS and OVERVIEW OF ROSENBERG DECISION

In *Cellular Tel. Co. v. Rosenberg*, 82 N.Y.2d 364 (1993), the New York Court of Appeals determined that cellular telephone companies are public utilities. The Court held that proposed cellular telephone installations are to be reviewed by zoning boards pursuant to the traditional standard afforded to public utilities, rather than the standards generally required for the necessary approvals:

It has long been held that a zoning board may not exclude a utility from a community where the utility has shown a need for its facilities. There can be no question of [the carrier's] need to erect the cell site to eliminate service gaps in its cellular telephone service area. The proposed cell site will also improve the transmission and reception of existing service. Application of our holding in Matter of Consolidated Edison to sitings of cellular telephone companies, such as [the applicant], permits those companies to construct structures necessary for their operation which are prohibited because of existing zoning laws and to provide the desired services to the surrounding community. . . . Moreover, the record supports the conclusion that [the applicant] sustained its burden of proving the requisite public necessity. [The applicant] established that the erection of the cell site would enable it to remedy gaps in its service area that currently prevent it from providing adequate service to its customers in the . . . area.

Rosenberg, 82 N.Y.2d at 372-74 (citing Consolidated Edison Co. v. Hoffman, 43 N.Y.2d 598 (1978)).

This special treatment of a public utility stems from the essential nature of its service, and the fact that a public utility transmitting facility must be located in a particular area in order to provide service. For instance, water towers, electric switching stations, water pumping stations and telephone poles must be in particular locations (including within residential districts) in order to provide the utility to a specific area: [Public] utility services are needed in all districts; the service can be provided only if certain facilities (for example, substations) can be located in commercial and even in residential districts. To exclude such use would result in an impairment of an essential service.

Anderson, New York Zoning Law Practice, 3d ed., p. 411 (1984) (hereafter "Anderson"). See also, *Cellular Tel. Co. v. Rosenberg*, 82 N.Y.2d 364 (1993); *Payne v. Taylor*, 178 A.D.2d 979 (4th Dep't 1991).

Accordingly, the law in New York is that a municipality may not prohibit facilities, including towers, necessary for the transmission of a public utility. In *Rosenberg*, 82 N.Y.2d at 371, the court found that "the construction of an antenna tower... to facilitate the supply of cellular telephone service is a 'public utility building' within the meaning of a zoning ordinance." See also *Long Island Lighting Co. v. Griffin*, 272 A.D. 551 (2d Dep't 1947) (a municipal corporation may not prohibit the expansion of a public utility where such expansion is necessary to the maintenance of essential services).

In the present case, Verizon Wireless does not have reliable service coverage in areas of the City of Amsterdam. The communications facility proposed is necessary to remedy this service problem and to provide adequate and reliable wireless telecommunications service coverage to this area. Therefore, Verizon Wireless satisfies the requisite showing of need for the facility under applicable New York law.

DOCUMENTATION OF PERSONAL WIRELESS SERVICE FACILITY STATUS and FEDERAL TELECOMMUNICATIONS ACT OF 1996

In addition to being considered a public utility under New York decisional law, Verizon Wireless is classified as a provider of "personal wireless services" under the federal Telecommunications Act of 1996 (the "TCA").

As stated in the long title of the Act, the goal of the TCA is to "promote competition and reduce regulation in order to secure lower prices and higher quality services for American telecommunications consumers and encourage the rapid deployment of new telecommunications technologies." *Telecommunications Act of 1996, Pub. LA. No. 104-104, 110 Stat. 56 (1996).*

The TCA mandates a process designed to achieve competitive telecommunications markets. In keeping with the central goals of the TCA, the authors specify in Section 253(a) that "[n]o State or local statute or regulation...may prohibit or have the effect of prohibiting the ability of <u>any</u> entity to provide <u>any</u> interstate or intrastate telecommunications service." *TCA Section* 253(a), *emphasis added*.

Section 332(c) of the TCA preserves the authority of a State or local government or instrumentality thereof over decisions regarding the placement, construction and modification of personal wireless service facilities, subject to several important limitations:

- the "regulation of the placement...of personal wireless service facilities by any State or local government or instrumentality thereof shall not unreasonably discriminate among providers of functionally equivalent services" (*TCA* \$332(c)(7)(B)(i)(I));
- the "regulation of the placement...of personal wireless service facilities by any State or local government or instrumentality thereof shall not prohibit or have the effect of prohibiting the provision of personal wireless services" (*TCA* \$332(c)(7)(B)(i)(II));
- Applications must be processed within a reasonable period of time, and any decision to deny a request for placement of personal wireless service facilities must be in writing and supported by substantial evidence contained in a written record $(TCA \ \$\$332(c)(7)(B)(ii) \ and \ (iii));$ and
- regulations based upon the perceived environmental effects of radio frequency emissions are prohibited, so long as the proposed personal wireless service facility complies with FCC regulations concerning such emissions (*TCA* \$332(c)(7)(B)(iv)).

A reference copy of the Telecommunications Act of 1996 is included herewith.

HOUSE OF REPRESENTATIVES

REPORT 104-458

TELECOMMUNICATIONS ACT OF 1996

JANUARY 31, 1996. Ordered to be printed

Mr. BLILEY, from the committee of conference, submitted the following

CONFERENCE REPORT

[To accompany S. 652]

The committee of conference on the disagreeing votes of the two Houses on the amendments of the House to the bill (S. 652), to provide for a pro-competitive, de-regulatory national policy framework designed to accelerate rapidly private sector deployment of advanced telecommunications and information technologies and services to all Americans by opening all telecommunications markets to competition, and for other purposes, having met, after full and free conference, have agreed to recommend and do recommend to their respective Houses as follows:

That the Senate recede from its disagreement to the amendment of the House to the text of the bill and agree to the same with an amendment as follows:

In lieu of the matter proposed to be inserted by the House amendment, insert the following:

SECTION 1, SHORT TITLE; REFERENCES.

(a) SHORT TITLE.—This Act may be cited as the "Telecommunications Act of 1996".

(b) REFERENCES.—Except as otherwise expressly provided, whenever in this Act an amendment or repeal is expressed in terms of an amendment to, or repeal of, a section or other provision, the reference shall be considered to be made to a section or other provision of the Communications Act of 1934 (47 U.S.C. 151 et seq.).

SEC. 2. TABLE OF CONTENTS.

The table of contents for this Act is as follows:

Sec. 1. Short title; references.

Sec. 2. Table of contents. Sec. 3. Definitions.

22-327

Federal Communications Commission Library

tity that has obtained an attachment to such conduit or intervery so that such entity may have a reasonable one stanty to add to or modify its existing attachment. Any that adds to or modifies its existing attachment of receiving such notification shall bear a proportionate show of the costs incurred by the owner in making such it, auct, conduit, or right-of-way accessible.

right-of-way shall not be required to bear any of the story rearranging or replacing its attachment is not rearrangement or replacement is required contresant of an additional attachment or the modification of an existing attachment sought by any other entity

SEC. 704. FACILITIES SITING; RADIO FREQUENCY EMISSION STAND-ARDS.

(a) NATIONAL WIRELESS TELECOMMUNICATIONS SITING POL-ICY.—Section 332(c) (47 U.S.C. 332(c)) is amended by adding at the end the following new paragraph:

(7) PRESERVATION OF LOCAL ZONING AUTHORITY.-

"(A) GENERAL AUTHORITY.—Except as provided in this paragraph, nothing in this Act shall limit or affect the authority of a State or local government or instrumentality thereof over decisions regarding the placement, construction, and modification of personal wireless service facilities. "(B) LIMITATIONS.—

"(i) The regulation of the placement, construction, and modification of personal wireless service facilities by any State or local government or instrumentality thereof—

"(I) shall not unreasonably discriminate among providers of functionally equivalent services; and "(II) shall not prohibit or have the effect of

"(II) shall not prohibit or have the effect of prohibiting the provision of personal wireless services.

"(ii) A State or local government or instrumentality thereof shall act on any request for authorization to place, construct, or modify personal wireless service facilities within a reasonable period of time after the request is duly filed with such government or instrumentality, taking into account the nature and scope of such request.

"(iii) Any decision by a State or local government or instrumentality thereof to deny a request to place, construct, or modify personal wireless service facilities shall be in writing and supported by substantial evidence contained in a written record.

"(iv) No State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission's regulations concerning such emissions. "(v) Any person adversely affected by any final action or failure to act by a State or local government or any instrumentality thereof that is inconsistent with this subparagraph may, within 30 days after such action or failure to act, commence an action in any court of competent jurisdiction. The court shall hear and decide such action on an expedited basis. Any person adversely affected by an act or failure to act by a State or local government or any instrumentality thereof that is inconsistent with clause (iv) may petition the Commission for relief.

"(C) DEFINITIONS.—For purposes of this paragraph—

"(i) the term 'personal wireless services' means commercial mobile services, unlicensed wireless services, and common carrier wireless exchange access services;

"(ii) the term 'personal wireless service facilities' means facilities for the provision of personal wireless services; and

"(iii) the term 'unlicensed wireless service' means the offering of telecommunications services using duly authorized devices which do not require individual licenses, but does not mean the provision of direct-to-

home satellite services (as defined in section 303(v)).". (b) RADIO FREQUENCY EMISSIONS.—Within 180 days after the enactment of this Act, the Commission shall complete action in ET Docket 93-62 to prescribe and make effective rules regarding the environmental effects of radio frequency emissions. (c) AVAILABILITY OF PROPERTY.—Within 180 days of the enact-

ment of this Act, the President or his designee shall prescribe procedures by which Federal departments and agencies may make available on a fair, reasonable, and nondiscriminatory basis, property, rights-of-way, and easements under their control for the placement of new telecommunications services that are dependent, in whole or in part, upon the utilization of Federal spectrum rights for the transmission or reception of such services. These procedures may establish a presumption that requests for the use of property, rightsof way, and easements by duly authorized providers should be granted absent unavoidable direct conflict with the department or agency's mission, or the current or planned use of the property, rights-of-way, and easements in question. Reasonable fees may be charged to providers of such telecommunications services for use of property, rights-of-way, and easements. The Commission shall provide technical support to States to encourage them to make property, rights-of-way, and easements under their jurisdiction available for such purposes.

RIERS.

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Section 332(c) (47 U.S.C. 332(c)) is amended by adding at the end the following new paragraph:

"(8) MOBILE SEPTICES ACCESS.—A person engaged in the provision of amercial mobile services, insofar as such person in engaged, shall not be required to provide equal access to portionate share of the costs incurred by the owner in making such conduit or right-of-way accessible.

Conference agreement

The conference agreement adopts the Senate provision with modifications. The conference agreement amends section 224 of the Communications Act by adding new subsection (e)(1) to allow parties to negotiate the rates, terms, and conditions for attaching to poles, ducts, conduits, and rights-of-way owned or controlled by utilities. New subsection 224(e)(2) establishes a new rate formula charged to telecommunications carriers for the non-useable space of each pole. Such rate shall be based upon the number of attaching entities. The conferees also agree to three additional provisions from the House amendment. First, subsection (g) requires utilities that engage in the provision of telecommunications services or cable services to impute to its costs of providing such service an equal amount to the pole attachment rate for which such company would be liable under section 224. Second, new subsection 224(h) requires utilities to provide written notification to attaching entities of any plans to modify or alter its poles, ducts, conduit, or rights-of-way. New subsection 224(h) also requires any attaching entity that takes advantage of such opportunity to modify its own attachments shall bear a proportionate share of the costs of such alterations. Third, new subsection 224(i) prevents a utility from imposing the cost of rearrangements to other attaching entities if done solely for the benefit of the utility.

SECTION 704—FACILITIES SITING; RADIO FREQUENCY EMISSION STANDARDS

Senate bill

No provision.

House amendment

Section 108 of the House amendment required the Commission to issue regulations within 180 days of enactment for siting of CMS. A negotiated rulemaking committee comprised of State and local governments, public safety agencies and the affected industries were to have attempted to develop a uniform policy to propose to the Commission for the siting of wireless tower sites.

The House amendment also required the Commission to complete its pending Radio Frequency (RF) emission exposure standards within 180 days of enactment. The siting of facilities could not be denied on the basis of RF emission levels for facilities that were in compliance with the Commission standard.

The House amendment also required that to the greatest extent possible the Federal government make available to use of Federal property, rights-of-way, easements and any other physical instruments in the siting of wireless telecommunications facilities.

Conference agreement

The conference agreement creates a new section 704 which prevents Commission preemption of local and State land use decisions and preserves the authority of State and local governments over zoning and land use matters except in the limited circumstances set forth in the conference agreement. The conference agreement also provides a mechanism for judicial relief from zoning decisions that fail to comply with the provisions of this section. It is the intent of the conferees that other than under section 332(c)(7)(B)(iv)of the Communications Act of 1934 as amended by this Act and section 704 of the Telecommunications Act of 1996 the courts shall have exclusive jurisdiction over all other disputes arising under this section. Any pending Commission rulemaking concerning the preemption of local zoning authority over the placement, construction or modification of CMS facilities should be terminated.

When utilizing the term "functionally equivalent services" the conferees are referring only to personal wireless services as defined in this section that directly compete against one another. The intent of the conferees is to ensure that a State or local government does not in making a decision regarding the placement, construction and modification of facilities of personal wireless services described in this section unreasonably favor one competitor over another. The conferees also intend that the phrase "unreasonably discriminate among providers of functionally equivalent services" will provide localities with the flexibility to treat facilities that create different visual, aesthetic, or safety concerns differently to the extent permitted under generally applicable zoning requirements even if those facilities provide functionally equivalent services. For example, the conferees do not intend that if a State or local government grants a permit in a commercial district, it must also grant a permit for a competitor's 50-foot tower in a residential district.

Actions taken by State or local governments shall not prohibit or have the effect of prohibiting the placement, construction or modification of personal wireless services. It is the intent of this section that bans or policies that have the effect of banning personal wireless services or facilities not be allowed and that decisions be made on a case-by-case basis.

Under subsection (c)(7)(B)(ii), decisions are to be rendered in a reasonable period of time, taking into account the nature and scope of each request. If a request for placement of a personal wireless service facility involves a zoning variance or a public hearing or comment process, the time period for rendering a decision will be the usual period under such circumstances. It is not the intent of this provision to give preferential treatment to the personal wireless service industry in the processing of requests, or to subject their requests to any but the generally applicable time frames for zoning decision.

The phrase "substantial evidence contained in a written record" is the traditional standard used for judicial review of agency actions.

The conferees intend section 332(c)(7)(B)(iv) to prevent a State or local government or its instrumentalities from basing the regulation of the placement, construction or modification of CMS facilities directly or indirectly on the environmental effects of radio frequency emissions if those facilities comply with the Commission's regulations adopted pursuant to section 704(b) concerning such emissions. The limitations on the role and powers of the Commission under this subparagraph relate to local land use regulations and are not intended to limit or affect the Commission's general authority over radio telecommunications, including the authority to regulate the construction, modification and operation of radio facilities.

The conferees intend that the court to which a party appeals a decision under section 332(c)(7)(B)(v) may be the Federal district court in which the facilities are located or a State court of competent jurisdiction, at the option of the party making the appeal, and that the courts act expeditiously in deciding such cases. The term "final action" of that new subparagraph means final administrative action at the State or local government level so that a party can commence action under the subparagraph rather than waiting for the exhaustion of any independent State court remedy otherwise required.

With respect to the availability of Federal property for the use of wireless telecommunications infrastructure sites under section 704(c), the conferees generally adopt the House provisions, but substitute the President or his designee for the Commission.

It should be noted that the provisions relating to telecommunications facilities are not limited to commercial mobile radio licensees, but also will include other Commission licensed wireless common carriers such as point to point microwave in the extremely high frequency portion of the electromagnetic spectrum which rely on line of sight for transmitting communication services.

CARRIERS

Senate bill

Subsection (b) of section 221 of the Senate bill, as passed, states that notwithstanding the MFJ or any other consent decree, no CMS provider will be required by court order or otherwise to provide long distance equal access. The Commission may only order equal access if a CMS provider is subject to the interconnection obligations of section 251 and if the Commission finds that such a requirement is in the public interest. CMS providers shall ensure that its subscribers can obtain unblocked access to the interexchange carrier of their thoice through the use of interexchange carrier identification codes, except that the unblocking requirement shall not apply to mobile satellite services unless the Commission finds it is in the public interest.

House amendment

Under section 109 of the House amendment, the Commission shall require providers of two-way switched voice CMS to allow their subscribers to access the telephone toll services provider of their choice through the use of carrier identification codes. The Commission rules will supersede the equal access, balloting and prescription requirements imposed by the MFJ and the AT&T-McCommission may exempt carriers or classes of carriers from the requirements of this section if it is conterent with the public interest, commission, and necessity, and the

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COMMUNICE I	Federal Communic Wireless Telecomm				
COMMISSION +	RADIO STATION A	AUTHORIZATI	ON		
LICENSEE: CELLCO F	PARTNERSHIP	_			
ATTN: REGULATORY			Call Sign WQGA715	File Number 0006015570	
CELLCO PARTNERSHIP 1120 SANCTUARY PKWY, #150 GASA5REG ALPHARETTA, GA 30009-7630			Radio Service AW - AWS, 1710-1755/2110-2155 MHz bands		
C Registration Number (FR Grant Date	N): 0003290673 Effective Date	Expiration	Date	Print Date	
11-29-2006	03-12-2014	11-29-2021		05-09-2014	
Market Number REA001	Chann	nel Block F	Sub-Market Designator		
	Market North				
1st Build-out Date	2nd Build-out Date 3rd Build		t Date	4th Build-out Date	
ivers/Conditions:	upon the licensee, prior to initia	ting operations from	any base or fi	rad station making	
	requency usage with known co-				

reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

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COMMUNICATION CONTRACT	Federal Communic Wireless Telecomm			
COMMISSION T	RADIO STATION A	AUTHORIZATIO	DN	
LICENSEE: CELLCO	PARTNERSHIP			
			Call Sign	File Number
ATTN: REGULATORY			WQGA902	0006150136
CELLCO PARTNERSH 1120 SANCTUARY PK ALPHARETTA, GA 30	WY, #150 GASA5REG		AW - AW	Radio Service S (1710-1755 MHz and 110-2155 MHz)
FCC Registration Number (FI		1		I
Grant Date 11-29-2006	Effective Date 12-28-2013	Expiration 1 11-29-202		Print Date 02-14-2014
Market Number BEA005	Chan	nel Block B	Su	b-Market Designator 5
		t Name ctady-Troy, NY		
1st Build-out Date	2nd Build-out Date	3rd Build-out	Date	4th Build-out Date
easonable efforts to coordinate	d upon the licensee, prior to initia frequency usage with known co- z band whose facilities could be	channel and adjacent of	channel incu	mbent federal users

Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

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COMMUNICATIONS COMMISSION	Federal Communica Wireless Telecomm RADIO STATION A	unications Bu	reau		
LICENSEE: CELLCO	PARTNERSHIP				
ATTN: REGULATORY			Call SignFile NumberWQVN679		
CELLCO PARTNERSH 5055 NORTH POINT PI ALPHARETTA, GA 300	KWY, NP2NE NETWORK ENG	INEERING	AT - AW	Radio Service S-3 (1695-1710 MHz, Hz, and 2155-2180 MHz)	
FCC Registration Number (FR	SN): 0003290673				
Grant Date 04-08-2015	Effective Date 02-24-2017	Expirati 04-08-		Print Date	
Market Number BEA006	Channe	el Block	Su	b-Market Designator 0	
	Market Syracuse,				
1st Build-out Date 04-08-2021	2nd Build-out Date 04-08-2027	3rd Build-	out Date	4th Build-out Date	
Waivers/Conditions: NONE					
following conditions: This lice frequencies designated in the 1 license nor the right granted th 1934, as amended. See 47 U.S.	nmunications Act of 1934, as amo ense shall not vest in the licensee icense beyond the term thereof no ereunder shall be assigned or othe S.C. § 310(d). This license is subj 934, as amended. See 47 U.S.C. §	any right to opera or in any other ma erwise transferred ect in terms to the	te the station nor nner than author in violation of th	r any right in the use of the ized herein. Neither the ne Communications Act of	

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQVN679		File Number:		Print Date:	
700 MHz Relicensed A	rea Information:				
700 MHz Relicensed A Market	rea Information: Market Name	Buildout De	eadline Bu	ildout Notificatio	n Status

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	Wireless	s Telecoi	nication mmunica N AUTH	tions	Bur	reau	n		
LICENSEE: CELLCO PARTN	ERSHIP				г		a :		
						Call KNK	Sign A246		Number 672353
ATTN: REGULATORY CELLCO PARTNERSHIP 1120 SANCTUARY PKWY, #1	50 GASA	SREG						Service Cellular	
ALPHARETTA, GA 30009-763					Ī		t Numer A044	1	n el Block B
					f	5	Sub-Marke	0	or
FCC Registration Number (FRN):	00032906	73						0	
Market Name Albany-Schenectady-Troy, NY									
Grant Date Effective 04-14-2015 04-14			Diration Da 05-15-2025	ite	Five	e Yr Build	-Out Date		nt Date 14-2015
Site Information:									
Location Latitude Longi	tude		round Elev neters)	ation		ucture Hg eters)	-	Antenna St	
243-08-54.3 N073-4Address: SARATOGA: KINGS STATCity: GREENFIELDCounty: SAR		21	15.0	ruction		-	ľ	Registratio	on 190.
Antenna: 1 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	41.400 100.000	174.700 57.540	188.400 7.760	175.6 0.630		172.800 0.160	110.000 0.630	-41.500 7.760	-71.300 57.540
Antenna: 2 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters)	41.500	174.700	188.400	175.6	00	172.800	110.000	-41.500	-71.000
Transmitting ERP (watts)	1.450	19.500	79.430	95.50	0	36.310	3.240	0.160	0.160
Antenna: 3 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters)	41.500	174.700	188.400	175.6		172.800	110.000	-41.500	-71.300
Transmitting ERP (watts)	1.450	0.160	0.160	3.240		36.310	95.500	79.430	19.500
								\mathbf{D}	
Conditions: Pursuant to §309(h) of the Communication following conditions: This license shaft frequencies designated in the license belicense nor the right granted thereunder 1934, as amended. See 47 U.S.C. § 31 the Communications Act of 1934, as a	ll not vest eyond the r shall be a .0(d). This	in the licenterm there assigned on a license is	nsee any rig of nor in an t otherwise subject in	ght to op y other transfer	perat man rred i	e the statio mer than au in violatior	n nor any r athorized he of the Con	ight in the perein. Neith nmunication	use of the her the ons Act of

Call Sign: KNKA246	File	Number:	00066723	53	P	rint Date:	04-14-2015	
Location Latitude Longit		(m	ound Elev eters)	(1	Structure Hg meters)	t to Tip	Antenna St Registratio	
³ 42-37-39.4 N 074-00 Address: THACHER PARK: 5 MILES)-37.4 W S SOUTHY		4.7 CAMP PI		6.3 FROAD			
City: New Scotland County: ALBA			Constructi					
Antenna: 1 Azimuth (from true north).	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	479.100	506.400	512.200	439.300		133.200	261.500	223.800
Transmitting ERP (watts)	75.080	2.650	1.000	1.000	1.000	7.850	122.830	257.550
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	479.100	506.400	512.200	439.300) 211.900	133.200	261.500	223.800
Transmitting ERP (watts)	37.050	79.470	71.390	28.640	1.470	0.930	0.930	1.810
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	479.100	506 400	512.200	439.300) 211.900	133.200	261.500	223.800
Antenna Height AAT (meters)	479.100	506.400	512.200	+57.500	<i>2</i> 11.700	155.200	201.500	11 5.000
	1.000	1.000	6.450	98.460	230.900	140.000	15.040	1.000
Transmitting ERP (watts) Location Latitude Longit	1.000 ude 0-08.6 W NING RO	1.000 Gr (m 23	6.450 round Elev eters) 9.9 IILE NOR'	98.460 vation S (1 5 TH OF R	230.900 Structure Hg meters) 58.9	140.000		1.000
Transmitting ERP (watts)LocationLatitudeLongit442-54-41.3 N074-29Address:PALATINE BRIDGE: MORCity:PALATINECounty: MONTO	1.000 ude -08.6 W NING RO GOMERY	1.000 Gr (m 23 DAD, 1.1 M State: N	6.450 round Elev eters) 9.9 IILE NOR' VY Cons	98.460 vation S (1 5 TH OF R struction	230.900 Structure Hg meters) 58.9 OUTE 90 Deadline:	140.000 t to Tip	15.040 Antenna St Registratio	1.000 ructure n No.
Location Latitude Longit 4 42-54-41.3 N 074-29 Address: PALATINE BRIDGE: MOR	1.000 ude -08.6 W NING RO GOMERY	1.000 Gr (m 23 OAD, 1.1 M	6.450 round Elev eters) 9.9 IILE NOR'	98.460 vation S (1 5 TH OF R	230.900 Structure Hg meters) 58.9 OUTE 90 Deadline: 180	140.000	15.040 Antenna St	1.000
Transmitting ERP (watts)LocationLatitudeLongit442-54-41.3 N074-29Address:PALATINE BRIDGE: MORCity:PALATINECounty: MONTGAntenna:1 Azimuth (from true north)Antenna Height AAT (meters)	1.000 ude -08.6 W NING RO GOMERY 0 1.800	1.000 Gr (m 23 DAD, 1.1 M State: N 45 113.800	6.450 round Elev eters) 9.9 IILE NOR' VY Cons 90 153.300	98.460 vation S (1 5 TH OF R(struction 2 135 -16.900	230.900 Structure Hgt meters) 58.9 OUTE 90 Deadline: 180 9.400	140.000 t to Tip 225 64.300	15.040 Antenna St Registratio 270 128.700	1.000 ructure n No. 315 51.600
Transmitting ERP (watts)LocationLatitudeLongit442-54-41.3 N074-29Address:PALATINE BRIDGE: MORCity:PALATINECounty: MONTGCity:PALATINECounty: MONTGAntenna:1 Azimuth (from true north)Antenna Height AAT (meters)Transmitting ERP (watts)Antenna:2 Azimuth (from true north)	1.000 ude -08.6 W NING RO GOMERY 0 1.800 79.850	1.000 Gr (m 23 DAD, 1.1 M State: N 45 113.800 41.860	6.450 round Elevent eters) 9.9 11LE NOR' NY Cons 90 153.300 4.450	98.460 vation S (1 5 TH OF R(struction 1 135 -16.900 0.990	230.900 Structure Hgt meters) 58.9 OUTE 90 Deadline: 180 9.400 0.990 180	140.000 t to Tip 225 64.300 0.990	15.040 Antenna St Registratio 270 128.700 24.680	1.000 ructure n No. 315 51.600 85.260
Transmitting ERP (watts)LocationLatitudeLongit442-54-41.3 N074-29Address:PALATINE BRIDGE: MORCity:PALATINECounty: MONTGAntenna:1 Azimuth (from true north)Antenna Height AAT (meters)Transmitting ERP (watts)	1.000 ude -08.6 W NING RO OMERY 0 1.800 79.850 0	1.000 Gr (m 23 DAD, 1.1 M State: N 45 113.800 41.860 45	6.450 cound Elevent 9.9 IILE NOR' NY Cons 90 153.300 4.450 90	98.460 vation S (1 5 TH OF R struction 2 135 -16.900 0.990 135	230.900 Structure Hg meters) 58.9 OUTE 90 Deadline: 180 9.400 0.990 180 9.400	140.000 t to Tip 225 64.300 0.990 225	15.040 Antenna St Registratio 270 128.700 24.680 270	1.000 ructure n No. 315 51.600 85.260 315
Transmitting ERP (watts)LocationLatitudeLongit442-54-41.3 N074-29Address:PALATINE BRIDGE: MORCity:PALATINECounty: MONTGAntenna:1 Azimuth (from true north)Antenna Height AAT (meters)Transmitting ERP (watts)Antenna:2 Azimuth (from true north)Antenna:2 Azimuth (from true north)Antenna:1 Azimuth (from true north)	1.000 ude -08.6 W NING RO GOMER Y 0 1.800 79.850 0 1.800	1.000 Gr (m 23 0AD, 1.1 M State: N 45 113.800 41.860 45 113.800	6.450 round Elev eters) 9.9 IILE NOR' NY Cons 90 153.300 4.450 90 153.300	98.460 ration S (1 5 TH OF R(struction 1 135 -16.900 0.990 135 -16.900	230.900 Structure Hg meters) 58.9 OUTE 90 Deadline: 180 9.400 0.990 180 9.400	140.000 t to Tip 225 64.300 0.990 225 64.300	15.040 Antenna St Registratio 270 128.700 24.680 270 128.700	1.000 ructure n No. 315 51.600 85.260 315 51.600



Call Sign: KNKA246	File	Number:	00066723	53	P	rint Date:	: 04-14-2015	
Location Latitude 5 43-10-40.3 N	Longitude 073-55-44.5 W	(m	round Elev neters) 59.7		ucture Hg eters)	t to Tip	Antenna St Registratio	
Address: ALPINE: LOCATE								
City: GREENFIELD Cour	nty: SARATOGA	State: N	Y Const	ruction Dea	adline:			
Antenna: 1 Azimuth (from tr	ue north) 0	45	90	135	180	225	270	315
Antenna Height AAT (meter		242.900	307.900	353.300	310.900	80.200	60.700	59.100
Transmitting ERP (watts)	100.000		100.000	100.000	100.000	100.000	100.000	100.000
Location Latitude	Longitude		round Elev neters)		ucture Hg eters)	t to Tip	Antenna St Registratio	
7 42-36-20.3 N	073-27-36.4 W							
Address: Fire Tower Road City: Stephentown County	RENSSELAER	State: N	V Const	ruction Dea	dline			
					unne.			
Antenna: 1 Azimuth (from tr	· · · · ·	45	90	135	180	225	270	315
Antenna Height AAT (meter		103.400	86.700	194.400	253.100	332.400	345.400	279.800
Transmitting ERP (watts)	44.000	75.960	35.390	2.610	0.290	12.190	72.680	58.030
Location Latitude	Longitude	(n	round Elev neters)		ucture Hg eters)	t to Tip	Antenna St Registratio	
8 42-58-16.3 N Address: MINDEN: 0.41 MI ROAD BEARING 4 City: MINDEN County: M	074-40-50.5 W ILES FROM THE MONTGOMERY			ROUTE 5S		NDERS		
Antenna: 1 Azimuth (from tr	ue north) 0	45	90	135	180	225	270	315
Antenna Height AAT (meter	rs) 5.500	-53.300	88.400	168.300	75.300	-3.700	45.400	124.100
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000
Location Latitude 9 42-51-27.9 N Address: Le Barron Hill Rd.	Longitude 073-23-22.8 W	(m	round Elev neters) 58.2	ration Str (m 93.	eters)	t to Tip	Antenna St Registratio	
9 42-51-27.9 N Address: Le Barron Hill Rd.	073-23-22.8 W	(m 36	eters) 58.2	(m	eters) 9	t to Tip		
9 42-51-27.9 N Address: Le Barron Hill Rd.	073-23-22.8 W ENSSELAER Statue	(m 36 ate: NY 45	eters) 58.2	(m 93.	eters) 9	225 85.300 97.720		

Call Sign: KNKA246	File	Number:	00066723	53		P	rint Date:	: 04-14-2015	
Location Latitude Longi	tude		round Elev leters)	ation		icture Hg ters)	t to Tip	Antenna St Registratio	
10 42-17-05.3 N 074-1	5-53.9 W	91	1.7		34.8	3			
Address: Windham Ski Area - Base L	odge								
City: Windham County: GREENE	State: N	VY Cons	struction D	eadlin	e: 10-	-27-2009			
Antenna: 1 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters)	310.800	465.300	318.700	266.9	00	255.100	310.100	350.200	327.100
Transmitting ERP (watts)	116.240	92.730	14.970	0.620		0.620	0.620	16.420	99.360
Antenna: 2 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters)	310.800	465.300	318.700	266.9	00	255.100	310.100	350.200	327.100
Transmitting ERP (watts)	0.800	39.870	112.180	115.1	80	66.580	4.670	0.620	0.620
Antenna: 3 Azimuth (from true north)	0	45	90	135		180	225	270	315
Antenna Height AAT (meters)	310.800	465.300	318.700	266.9	00	255.100	310.100	350.200	327.100
Transmitting ERP (watts)	0.780	0.620	0.620	4.890		70.940	115.560	109.620	35.530
Control Deinter									
Control Points:									
Control Pt. No. 1									
Address: 500 W Dove Rd									
City: Southlake County: TARRAN	T State	TX T	elephone N	lumbe	r: (80	0)264-662	20		
Waivers/Conditions:									

Waivers/Conditions:

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.

AT COMMUNIC	Federal Communica Wireless Telecomm					
COMMISSION S	RADIO STATION A	UTHORIZAT	TION			
LICENSEE: CELLCO	PARTNERSHIP					
ATTN: REGULATORY			Call Sig WQJQ689			
5055 NORTH POINT P	CELLCO PARTNERSHIP 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING ALPHARETTA, GA 30022					
FCC Registration Number (FF	RN): 0003290673					
Grant Date 09-11-2019	Effective Date 09-11-2019	Expiratio 06-13-		Print Date		
Market Number REA001	Channe	el Block	Sı	ı b-Market Designator 0		
	Market North					
1st Build-out Date 06-13-2013	The Dana out Date the the the Date					
Waivers/Conditions: If the facilities authorized herein	are used to provide broadcast op	erations, whether	exclusively or i	n combination with other		

If the facilities authorized herein are used to provide broadcast operation services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at http://wireless.fcc.gov/uls/index.htm?job=home and select "License Search". Follow the instructions on how to search for license information.

Call Sign: WQJQ689

File Number: 0008587211

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
	Q			

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F COMMUNIC	Federal Communic Wireless Telecomm		ssion	
COMMISSION	RADIO STATION A	UTHORIZATION	N	
LICENSEE: CELLCO P.	ARTNERSHIP			
ATTN: REGULATORY		,	Call Sign WQCS418	File Number 0006668604
CELLCO PARTNERSHIP 1120 SANCTUARY PKWY, #150 GASA5REG ALPHARETTA, GA 30009-7630				o Service S Broadband
C Registration Number (FR	N): 0003290673			
Grant Date 04-23-2015	Effective Date 04-23-2015	Expiration Da 05-13-2025	ite	Print Date 04-24-2015
Market Number BTA007	Chann	el Block	Sub-Ma	arket Designator 6
	Market Albany-Sche			
1st Build-out Date 05-13-2010	2nd Build-out Date	3rd Build-out D	ate	Ath Build-out Date
ivers/Conditions:	ditional basis, subject to the out	come of FCC proceedin	g WT Docket N	[o_10-112 (see FCC

10-86, paras. 113 and 126).

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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STATES OF THE ST	Federal Communic Wireless Telecomm		ssion	
COMMISSION *	RADIO STATION A	UTHORIZATION	J	
LICENSEE: CELLCO F	PARTNERSHIP			
ATTN: REGULATORY			Call Sign WQEM928	File Number 0007057132
CELLCO PARTNERSH 1120 SANCTUARY PK ALPHARETTA, GA 300	WY, #150 GASA5REG			Service Broadband
FCC Registration Number (FR	N): 0003290673			
Grant Date 03-11-2016	Effective Date 03-11-2016	Expiration Da 03-08-2026	ite	Print Date 03-12-2016
Market Number BTA007	Chann	el Block C	Sub-Ma	nrket Designator 5
	Market Albany-Sche			
1st Build-out Date 03-08-2011	2nd Build-out Date	3rd Build-out D	ate 4	th Build-out Date
Waivers/Conditions:				
Grant of the request to update lic 1.948): if an assignment or transf	ensee name is conditioned on it is fer occurred without proper notice			

licensed under the prior name.

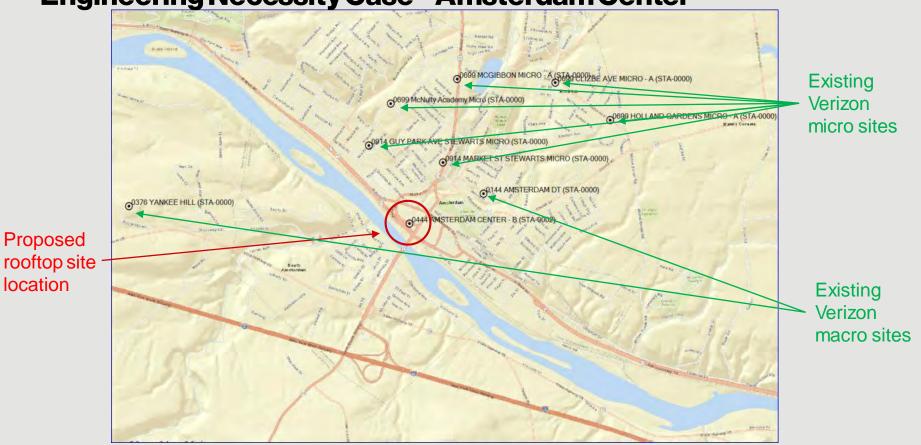
License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

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Verizon Wireless Communications Facility Engineering Necessity Case – Amsterdam Center



Prepared by: Rick Suhocki

Project: The project is for the installation and operation of wireless telecommunications equipment on the existing rooftop at 29 East Main St. in the city of Amsterdam.



Introduction

The purpose of this subsequent analysis is to summarize and communicate the technical radio frequency (RF) information used in the justification of this new site.

Coverage and/or capacity deficiencies are the two main drivers that prompt the need for a new wireless communications facility/site. All sites provide a mixture of both capacity and coverage for the benefit of the end user.

Coverage can be defined as the existence of signal of usable strength and quality in an area, including but not limited to in-vehicles or in-buildings.

The need for improved coverage is identified by RF Engineers that are responsible for developing and maintaining the network. RF Engineers utilize both theoretical and empirical data sets (propagation maps and real world coverage measurements). Historically, coverage improvements have been the primary justification of new sites.

Capacity can be defined as the amount of traffic (voice and data) a given site can process before significant performance degradation occurs.

When traffic volume exceeds the capacity limits of a site serving a given area, network reliability and user experience degrades. Ultimately this prevents customers from making/receiving calls, applications cease functioning, internet connections time out and data speeds fail. This critical condition is more important than just a simple nuisance for some users. Degradation of network reliability and user experience can affect emergency responders and to persons in a real emergency situation can literally mean life or death.



Project Need Overview

The purpose of this project is to improve wireless coverage and capacity in the city of Amsterdam, and add new 700 MHz and Advanced Wireless Services (AWS) 2100 MHz frequencies to Verizon Wireless' existing regional wireless network. Verizon Wireless is using these frequencies for commercial activation of its fourth Generation Long Term Evolution (4G LTE) communication services network.

This project is a necessary and critical upgrade of the Verizon Wireless communications network in Montgomery County including the city of Amsterdam. Upon completion, new, advanced emergency and non-emergency 4G Verizon Wireless communication services will be provided across significant portions of the city of Amsterdam and surrounding areas.

The primary objectives for this project are to provide an adequate and safe level of emergency and non-emergency Verizon Wireless 4G communications services across the city of Amsterdam and surrounding areas. More specifically, the facility will offer significant improvements in both coverage and capacity (ability for the network to adequately satisfy the demand for high speed wireless services) to the homes, businesses, and rural communities across the lower areas of the city of Amsterdam and the surrounding areas, including portions of I-90, 3.5± miles along Route 5, 2.5± miles along Route 5s and 2.0± mile along Route 30. Additionally, the proposed facility will improve service and fill in existing 4G network coverage gaps along several community and local roads across the target coverage improvement area.

Following the search for co-locatable structures to resolve the aforementioned challenges and finding this rooftop, Verizon proposes the current application to attach it's antennas on the roof of the building located at 29 East Main St. Amsterdam, NY 12010. Verizon's antennas will utilize 108' for the ACL (Antenna Center Line) with a top of antenna height of 112'. This solution will provide the necessary coverage and capacity improvements needed.



Wireless LTE (Voice and Data) Growth

Each year Verizon experiences substantial increases in data volume including VoLTE (Voice over LTE) that its customers utilize. Data traffic grew 65% between Q3 2016 and Q3 2017 (Ericsson Mobility Report, November 2017)

Machine to Machine communications will also increase the data burden on wireless networks. During the next five years increasingly more services that improve our safety and make our lives easier will become available via the wireless infrastructure, such as:

- Autonomous vehicular communications including automatic 911 notification when airbag deploys.
- Medical monitors that alert caretakers of patient related issues.
- Home alarms that notify people when their child arrives home from school.
- Smart street lights that notify the city when they are not working.
- City garbage cans that let people know when they need to be emptied.
- Tracking watches that can aid in finding lost Alzheimer patients, children, etc.



Explanation of Wireless Capacity



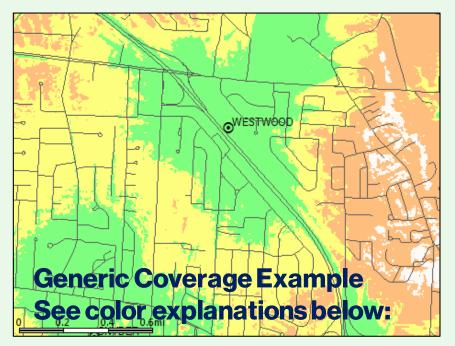
Capacity in this analysis is evaluated with up to three metrics further explained below. These metrics assist in determining actual usage for a given site as well as are used to project when a site is expected to run out of capacity (i.e. reach a point of exhaustion where it can no longer process the volume of voice and data requested by local wireless devices, thus no longer providing adequate service).

- Forward Data Volume ("**FDV**"), is a measurement of usage (data throughput) on a particular site over a given period of time.
- Average Schedule Eligible User ("**ASEU**"), is a measurement of the loading of the control channels and systems of a given site.
- Average Active Connections ("AvgAC") is a measurement of the number of devices actively connected to a site in any given time slot.

Verizon Wireless uses proprietary algorithms developed by a task force of engineers and computer programmers to monitor each site in the network and accurately project and identify when sites will approach their capacity limits. Using a rolling two-year window for projected exhaustion dates allows enough time, in most cases, to develop and activate a new site. It is critical that these capacity approaching sectors are identified early and the process gets started and completed in time for new solutions (sites) to be on air before network issues impact the customers.



Explanation of Wireless Coverage



Note the affect of clutter on the predicted coverage footprint above

Coverage is best shown via coverage maps. RF engineers use computer simulation tools that take into account terrain, vegetation, building types, and site specifics to model the RF environment. This model is used to simulate the real world network and assist engineers to evaluate the impact of a proposed site (along with industry experience and other tools).

Many Verizon Wireless sites provide 3G CDMA at 850 MHz and 4G LTE at 700 MHz. As capacity requirements increase, higher frequency PCS (1900 MHz) and AWS (2100 MHz) carriers are added. In some mountaintop situations the high band AWS and PCS carriers are not effective due to excessive distance from the user population.

Coverage provided by a given site is affected by the frequencies used. Lower frequencies propagate further distances, and are less attenuated by clutter than higher frequencies. To provide similar coverage levels at higher frequencies, a denser network of sites is required (network densification).

**Dark Green >/= -75dBm RSRP, typically serves dense urban areas as well as areas of substantial construction (colleges, hospitals, dense multi family etc.) Green >/= -85dBm RSRP, typically serves suburban single family residential and light commercial buildings

Yellow >/= -95dBm RSRP, typically serves most rural/suburban-residential and in car applications

Orange >/= -105dBm RSRP, rural highway coverage, subject to variable conditions including fading and seasonality gaps

White = <-105dBm RSRP, variable to no reliable coverage gap area

More detailed, site-specific coverage slides are later in the presentation *Signal strength requirements vary as dictated by specific market conditions ** Not displayed in example map



Explanation of this Search Area



Amsterdam Center Search Area

A **Search Area** is the geographical area within which a new site is targeted to solve a coverage or capacity deficiency. Three of the factors taken into consideration when defining a search area are topography, user density, and the existing network.

- **Topography** must be considered to minimize the obstacles between the proposed site and the target coverage area. For example, a site at the bottom of a ridge will not be able to cover the other side from a certain height.
- In general, the farther from a site the **User Population** is, the weaker the RF conditions are and the worse their experience is likely to be. These distant users also have an increased impact on the serving site's capacity. In the case of a multi sector site, centralized proximity is essential to allow users to be evenly distributed and allow efficient utilization of the site's resources.
- The existing **Network Conditions** also guide the design of a new site. Sites placed too close together create interference due to overlap and are an inefficient use of resources. Sites that are too tall or not properly integrated with existing sites cause interference and degrade service for existing users.
- Existing co-locatable structures inside the search area as well as within a reasonable distance of the search area are submitted by site acquisition and reviewed by RF Engineering. If possible, RF will make use of existing or nearby structures before proposing to build new towers.

To resolve the coverage deficiencies previously detailed, Verizon Wireless is seeking to add one new 'macro' cell facility within or as close to this area as possible to improve wireless service capacity and coverage.

verizon /

-105 Coverage Plots

The following slides show the current and proposed -95 and -105 coverage for the Amsterdam area with existing and proposed site locations.

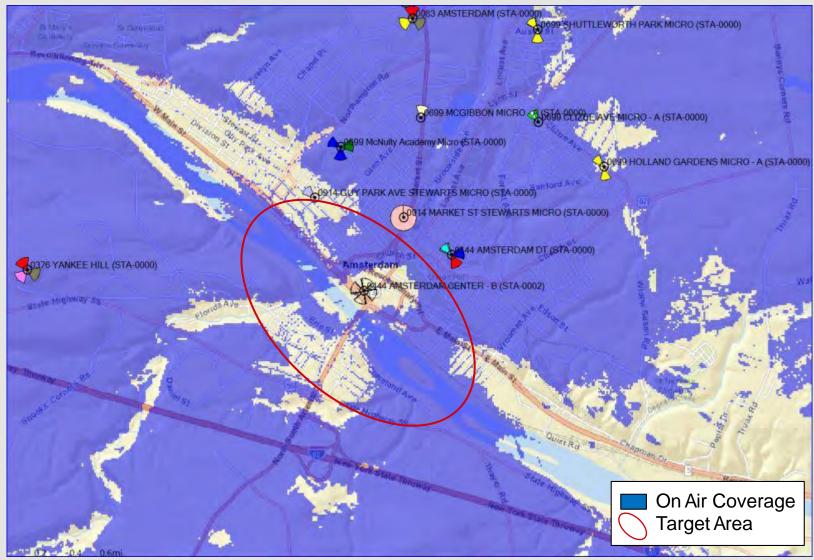
-105 is the Verizon standard for outdoor/in-car coverage, but will NOT provide quality in-building coverage.

-85/-95 is generally required to provide adequate in-building coverage



Existing 700MHz Best Server -95dBm RSRP

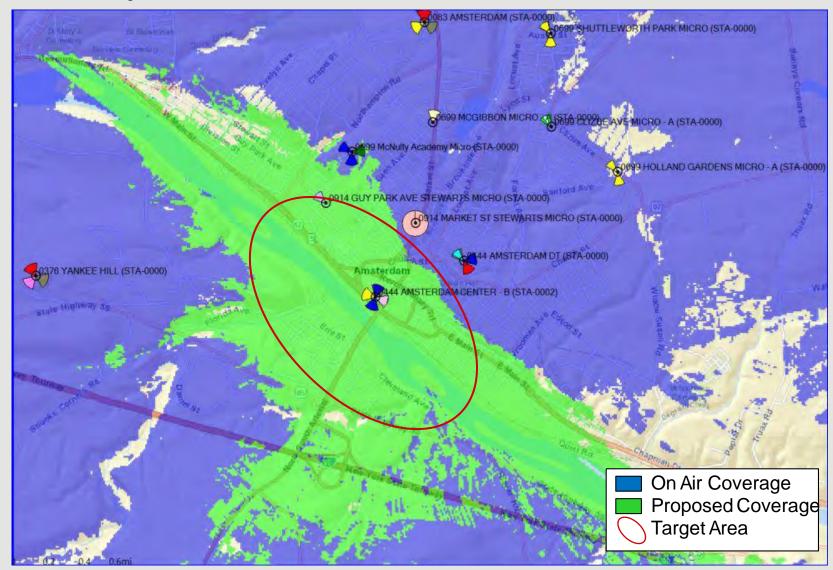
Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the existing coverage area.





Proposed 700MHz Best Server -95dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the coverage area provided by the new sites dominant signal area.

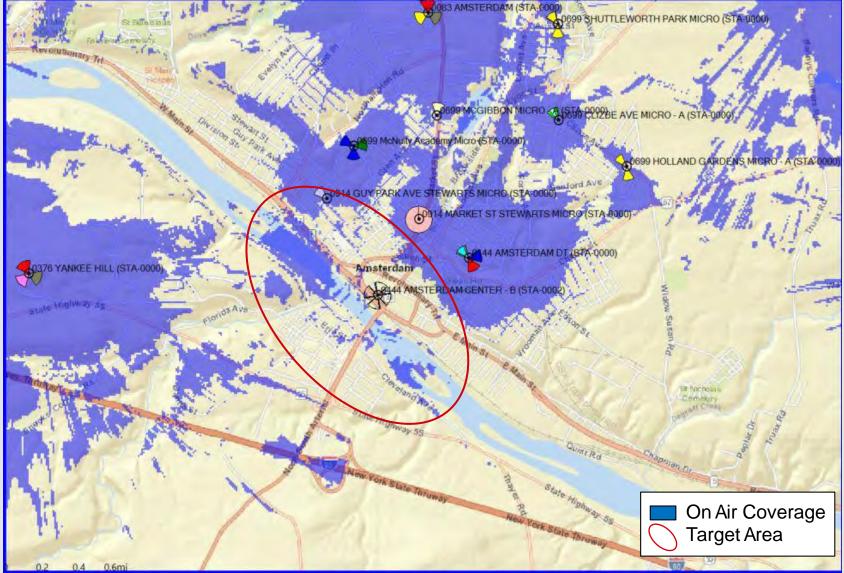




The map above represents current -95 coverage from existing sites and the proposed 119 Columbia St. site, Blue coverage is from existing on air sites and Green is improved coverage from proposed 119 Columbia St site.

Existing AWS (2100Mhz) Best Server -95dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the existing coverage area.

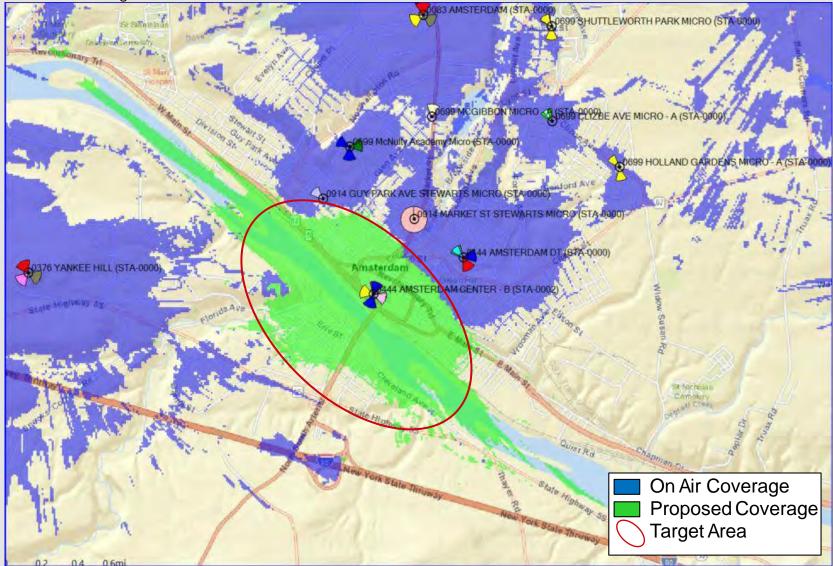


The map above represents current -95 coverage from existing sites, Blue coverage is from other on air sites.



Proposed AWS (2100MHz) Best Server -95dBm RSRP

Best Server plots depict the actual footprint of each sector in question at one threshold so the viewer can accurately evaluate the coverage area provided by the new sites dominant signal area.

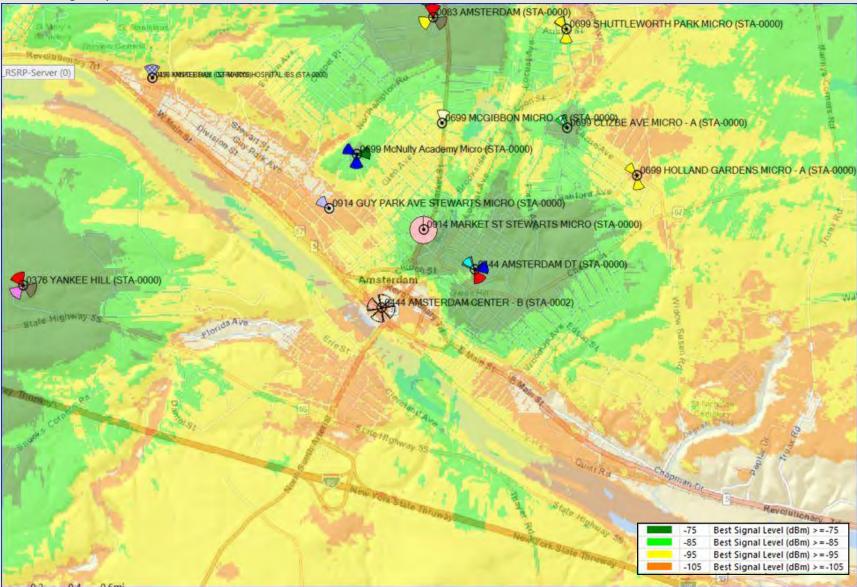




The map above represents current -95 coverage from existing sites and the proposed 119 Columbia St site, Blue coverage is from existing on air sites and Green is improved coverage from proposed 119 Columbia St site.

Existing 700MHz Coverage

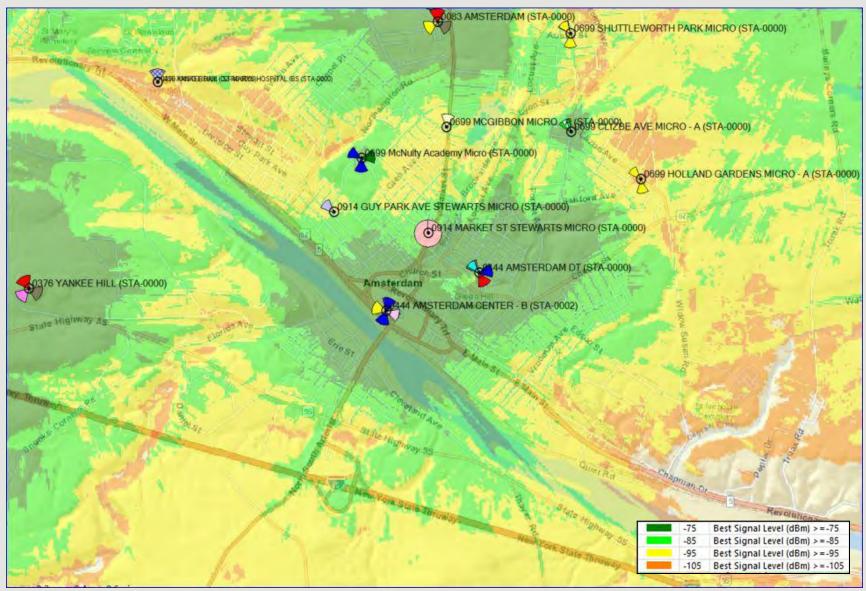
This coverage map shows the weak RF conditions in the lower downtown Amsterdam area.



verizon /

Proposed 700MHz Coverage

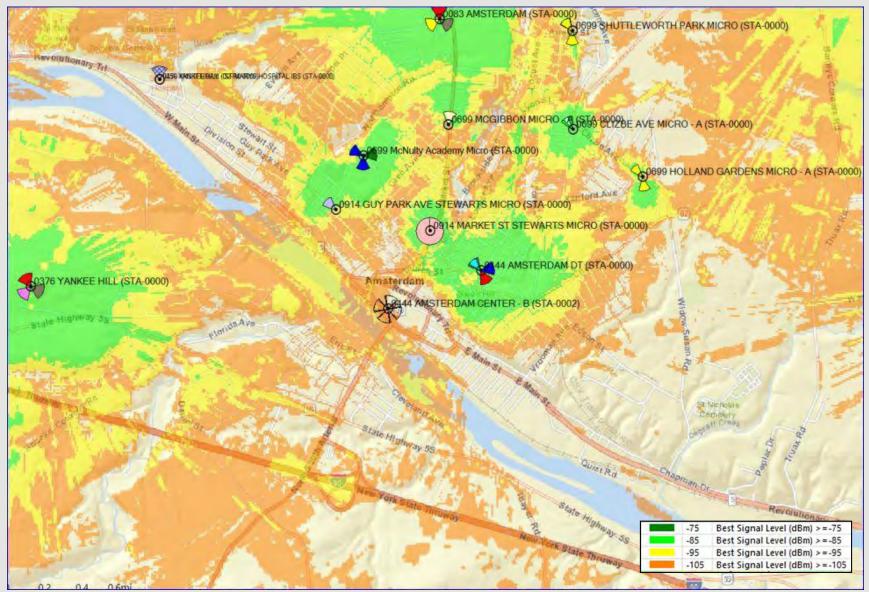
This coverage map shows how improved the RF conditions will be in and around the Amsterdam area.



verizon /

Existing AWS (2100MHz) Coverage

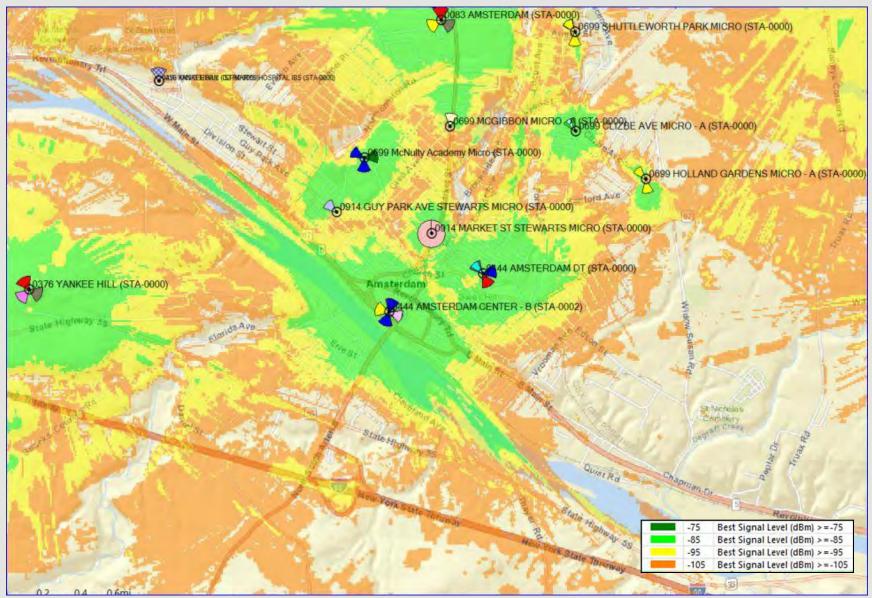
This coverage map shows the weak RF conditions in the lower downtown Amsterdam area.



verizon

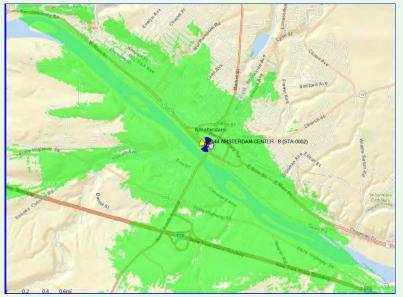
Proposed AWS (2100MHz) Coverage

This coverage map shows how improved the RF conditions will be in and around the Amsterdam area.





RF Justification Summary



The proposed site at 108' ACL resolves the substantial and significant gaps in coverage and capacity impacting the Amsterdam site area. This gap is show n above within the green shaded area.

The network was analyzed to determine whether there is sufficient **RF coverage and capacity** in the city of Amsterdam. It was determined that there are significant gaps in adequate LTE service for Verizon Wireless in the 700 and 2100MHz frequency bands. Based on the need for additional coverage while considering the topography and specific area requiring service, any further addition of capacity to distant existing sites does not remedy Verizon's significant gap in reliable service.

With the existing network configuration there are significant gaps in service which restricts Verizon Wireless customers from originating, maintaining or receiving reliable calls and network access. It is our expert opinion that the proposed height will satisfy the coverage and capacity needs of Verizon Wireless and its subscribers in the Amsterdam project area. The proposed location depicted herein satisfies the identified service gaps and is proposed at the minimum height necessary for adequate service.

Rick Subacki

Rick Suhocki Engineer III – RF Design Verizon Wireless







2459808_429735 - AMSTERDAM CENTER Radio Frequency (RF) Site Compliance Report



29 E. Main Street, Amsterdam, NY 12010

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Radio Frequency Exposure FCC Compliance Assessment

Pre-Activation

Site Specific Information						
Site Name	AMSTERDAM CENTER	Multi-Licensee Facility	Yes			
Street Address	29 E. Main Street	Is Verizon a Significant Contributor to Co-Locator				
City, State, Zip	Amsterdam, NY 12010	Areas Requiring Mitigation?	No			
Verizon's Max % MPE (Measured – Occupational)	N/A	Verizon's Max % MPE (Predictive – Occupational)	203.0% Occupational			
Structure Type	Rooftop	Assessment Date	10/20/2020			
Broadcast (AM/FM/TV)	No	Assessment Purpose	New Rooftop Colo - 2459808			
Total Access Points	1	Total Report Revisions	0			
Original Report Date	10/20/2020	Report Revision Date	N/A			
Compliance Statu	Compliance Status MITIGATION IS REQUIRED					

VERIZON'S WORST-CASE RF EMISSIONS IN ACCESSIBLE AREAS AT THIS FACILITY

□ ABOVE the General Population MPE limit and BELOW the Occupational MPE limit

X ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit

□ ABOVE 10x the Occupational MPE limit

<u>Final</u> <u>Compliance</u> <u>Configuration</u>	A DECEMPENT	NOTICE Warmen	CAUTION	WARNING	INFORMATION This are access room to an ere with transmission are the area of the area of the area area of the area		M
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BAI	RRIER/MARKER
Access Point(s)	1				1		dimensions
Alpha		2				Х	6'
Beta			3				dimensions
Gamma			2			Х	6'
Delta							dimensions

Note: The table above represents EVERY compliance item that MUST be implemented at this location; Also in Sec. 3(b)

Additional Compliance Requirements(s): N/A									
Consultant Legal NameSite Safe, LLCPhone/Fax703-276-1100									
Address	8618 Westwood Center Drive, Sui	8618 Westwood Center Drive, Suite 315							
	Vienna, VA 22182								

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Site Id: 240136





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1. Introduction

Verizon Wireless has contracted with Site Safe, LLC, an independent Radio Frequency consulting firm, to conduct a **Radio Frequency Exposure (RFE) FCC Compliance Assessment** of the AMSTERDAM CENTER cell site. The following report contains a detailed summary of the Radio Frequency environment as it relates to Federal Communications Commission (FCC) and Occupational Safety & Health Administration (OSHA) Rules and Regulations for all individuals.

The Verizon Wireless antenna data was provided by:

Name	Rick Suhocki
Title	RF Engineer III
Date	9/30/2020
Region	East - UPNY

This compliance assessment and report has been **prepared** and **reviewed** by:

	Preparer	Reviewer
Name	Nick Kutzke	(See signature on certification page)
Title	EME Report Writer	Quality Assurance
Date	10/20/2020	10/20/2020

This report utilizes the following **for predictive modeling of the ambient RF environment**: **MPE Modeling Program**: SitesafeTC

Required Modeling Assumptions: 100% Duty Cycle and Maximum Total Power Output.

Additional Modeling Assumptions:

General Model Assumptions

In this site compliance report, it is assumed that all antennas are operating at full power at all times. Software modeling derived from the recommendations in OET Bulletin 65 was performed for all transmitting antennas located on the site. Reflection has not been considered in the modeling, i.e. the reflection factor is set to 1.0. The near / far field boundary has been set to 1.5 times the aperture height of the antenna and modeling beyond that point is the lesser of the near field cylindrical model and the far field model taking into account the gain of the antenna.

Areas predicted to exceed the RF exposure limit(s) may not actually occur. If power density measurements were made, we believe the real-time measurements would indicate levels below those depicted in the RF exposure diagram(s) in this report.

Sitesafe recommends restricting access to areas predicted to potentially exceed the General Public limits to RF awareness trained personnel and to areas predicted to potentially exceed the Occupational limits to RF awareness trained personnel who are using appropriate personal protective equipment in most cases.

Use of Generic Antennas

For the purposes of this report, the use of "Generic" as an antenna model, or "Unknown" for an operator, means the information about a carrier, their FCC license and/or antenna information was not provided and could not be obtained while on site. In the event that there is unknown information, Sitesafe will use its industry specific knowledge of equipment, antenna models and transmit power to model the site. If more specific information can be obtained, Sitesafe recommends remodeling the site utilizing the new data. Information about similar facilities is used when the service is identified and associated with a particular antenna. If no information is available regarding the transmitting service associated with an unidentified antenna, using the antenna manufacturer's published data regarding the antenna's physical characteristics makes more conservative assumptions. Where the frequency is unknown, Sitesafe uses the frequency in the antenna's range which corresponds to the lowest RF exposure limit, resulting in a conservative analysis.

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2. Existing Site Characteristics

a. Structure

Physical Description	Rooftop
Single-Family Home	No
Site Latitude (NAD 83)	N42-56-12.11
Site Longitude (NAD 83)	W74-11-34.14
Total Analyzed	Main Level = 0 '
Elevations	EQ = 3'
	EQ Shelter = $12'$
	PH 1= 17'
	PH2 = 17'

b. Existing Verizon Observations

<u>Final</u> <u>Compliance</u> <u>Configuration</u>	A DETECT (A Construction of the second	NOTICE	CAUTION	WARNING Image And	INFORMATION This is a ACC33 FORT is an use with transition streams. The stream streams and streams the stream stream streams the stream stream stream streams the stream stream stream stream streams the stream stream stream stream streams the stream stream stream stream stream streams the stream s		M			
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BAI	RRIER/MARKER			
Access Point(s)							dimensions			
Alpha							dimensions			
Beta							dimensions			
Gamma							dimensions			
Delta							dimensions			

NOTE: The table above represents EXISTING compliance items implemented at this location.

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c. Antenna Inventory

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Z-height represents the distance from the nearest walking	□ Bottom ⊠ Centerline □ Top
surface to the of the antenna.	
NON-Verizon Co-locator Data	🛛 Estimate 🛛 Actual Data

Ant ID	Operator	Antenna Make & Model	Туре	TX Freq (MHz)	Tech	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	Power	Power Type	Power Units	# of Trans	Total ERP (Watts)	z	DT	EDT
1	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	20	62	8	13.55	80	TPO	Watt	1	1811.7	13'	2	4
1	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	20	52	8	14.45	80	TPO	Watt	1	2228.9	13'	2	4
1	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	1900	LTE	20	55.5	8	15.65	160	TPO	Watt	1	5876.5	13'	2	2
1	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	3550	LTE	20	56.5	8	14.55	20	TPO	Watt	1	570.2	13'	2	4
2	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	20	62	8	13.55	80	TPO	Watt	1	1811.7	13'	2	4
2	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	20	52	8	14.45	80	TPO	Watt	1	2228.9	13'	2	4
2	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	LTE	20	52.8	8	15.85	80	TPO	Watt	1	3076.7	13'	2	2
2	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	AWS3	20	52.8	8	15.85	80	TPO	Watt	1	3076.7	13'	2	2
3	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	110	62	8	13.55	80	TPO	Watt	1	1811.7	9'	2	4
3	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	110	52	8	14.45	80	TPO	Watt	1	2228.9	9'	2	4
3	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	1900	LTE	110	55.5	8	15.65	160	TPO	Watt	1	5876.5	9'	2	2
3	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	3550	LTE	110	56.5	8	14.55	20	TPO	Watt	1	570.2	9'	2	4
4	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	110	62	8	13.55	80	TPO	Watt	1	1811.7	9'	2	4
4	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	110	52	8	14.45	80	TPO	Watt	1	2228.9	9'	2	4
4	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	LTE	110	52.8	8	15.85	80	TPO	Watt	1	3076.7	9'	2	2

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Ant ID	Operator	Antenna Make & Model	Туре	TX Freq (MHz)	Tech	Az (Deg)	Hor BW (Deg)	Ant Len (ft)	Ant Gain (dBd)	Power	Power Type	Power Units	# of Trans	Total ERP (Watts)	Z	DT	EDT
4	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	AWS3	110	52.8	8	15.85	80	TPO	Watt	1	3076.7	9'	2	2
5	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	200	62	8	13.55	80	TPO	Watt	1	1811.7	9'	2	4
5	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	200	52	8	14.45	80	TPO	Watt	1	2228.9	9'	2	4
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5	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	3550	LTE	200	56.5	8	14.55	20	TPO	Watt	1	570.2	9'	2	4
6	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	200	62	8	13.55	80	TPO	Watt	1	1811.7	9'	2	4
6	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	200	52	8	14.45	80	TPO	Watt	1	2228.9	9'	2	4
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7	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	290	62	8	13.55	80	TPO	Watt	1	1811.7	3'	2	4
7	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	290	52	8	14.45	80	TPO	Watt	1	2228.9	3'	2	4
7	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	1900	LTE	290	55.5	8	15.65	160	TPO	Watt	1	5876.5	3'	2	2
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8	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	751	LTE	290	62	8	13.55	80	TPO	Watt	1	1811.7	3'	2	4
8	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	850	LTE	290	52	8	14.45	80	TPO	Watt	1	2228.9	3'	2	4
8	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	LTE	290	52.8	8	15.85	80	TPO	Watt	1	3076.7	3'	2	2
8	VERIZON WIRELESS (Proposed)	Jma Wireless MX10FRO860-xx	Panel	2100	AWS3	290	52.8	8	15.85	80	TPO	Watt	1	3076.7	3'	2	2

NOTE: The Z reference indicates the antenna radiation center height above the main site level unless otherwise indicated. Effective Radiated Power (ERP) is provided by the operator or based on Sitesafe experience. The values used in the modeling may be greater than are currently deployed. Proposed equipment is tagged as (Proposed) under Operator or Antenna Make & Model.

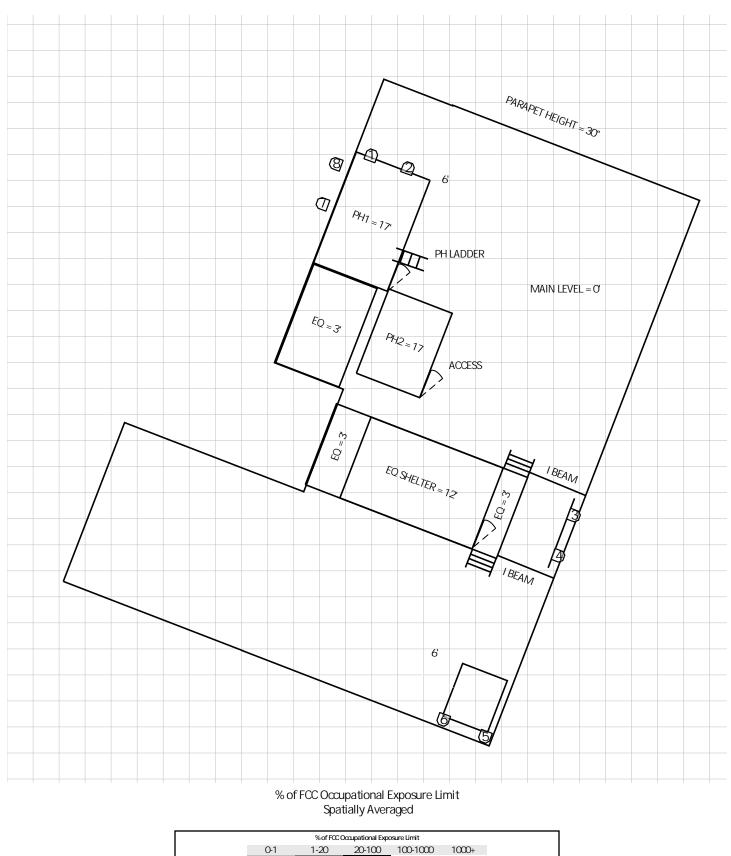
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3. Predictive Model: All Transmitters

Is the area being modeled completely INACCESSIBLE to members of the	No
general population (including untrained maintenance workers)?	INO





0

Sitesafe OET-65 Model Near Field Boundary: 1.5 * Aperture Reflection Factor: 1 Spatially Averaged

Î





4. Conclusion

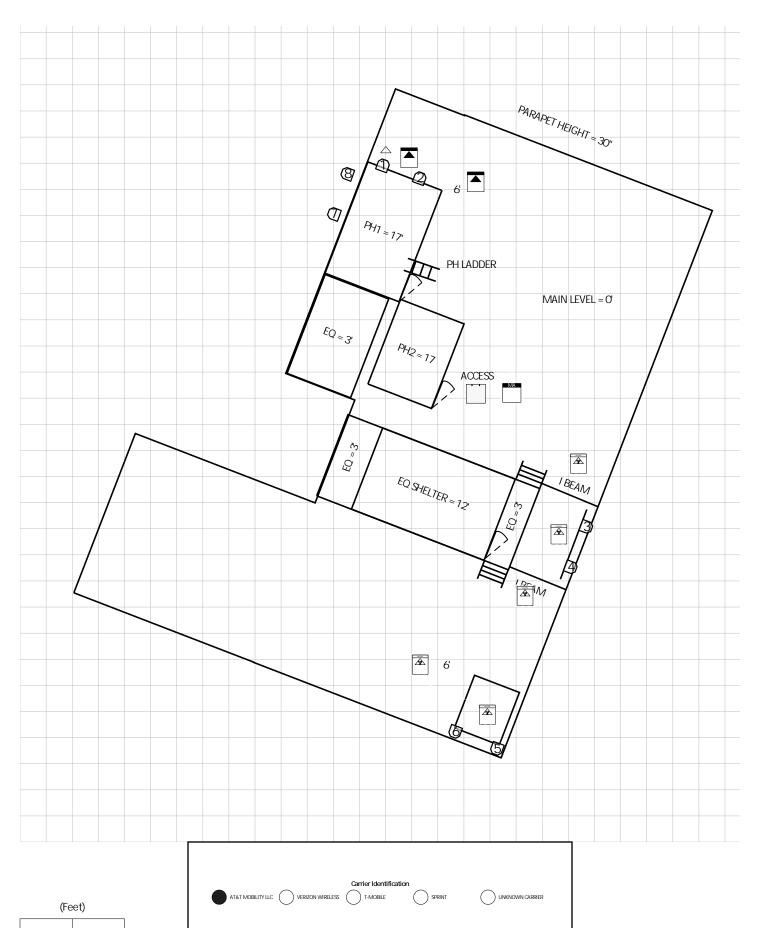
a. Conclusion Narrative

Description of MPE-Limit Exceeding Areas:

Verizon Wireless will be compliant with the FCC Rules and Regulations when the mitigation items below have been implemented.

The Max % MPE predicted on the rooftop is 203.0% Occupational MPE at the Verizon Wireless Beta sector.

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Proposed Barrier/Sign

Remove Sign

Existing Barrier









<u>Final</u> <u>Compliance</u> <u>Configuration</u>	A DECEMBENT	NOTICE Warmen	CALUTION CALUER CALU	WARNING	INFORMATION This is an ACS33 FORVIG is seen with Description of the pro- section of the pro- section of the pro- section of the pro- section of the pro- vertices'		M
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BAI	RRIER/MARKER
Access Point(s)	1				1		dimensions
Alpha		2				Х	6'
Beta			3				dimensions
Gamma			2			Х	6'
Delta							dimensions

NOTE: The table above represents EVERY compliance item that MUST be implemented at this location.

c. Signage/Barrier Installation Detail

<u>Mitigation</u> <u>Actions</u> <u>Required</u>	CONCECTION CONCECTION	NOTICE	CAUTION CAUTOR CAUTO	Harrison Control of Co	INFORMATION The search and search		
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BAI	RRIER/MARKER
Access Point(s)	1				1		dimensions
Alpha		2				Х	6'
Beta			3				dimensions
Gamma			2			Х	6'
Delta							dimensions

NOTE: The table represents either the signage/barriers installed / removed OR items required by the market (if mitigation is not installed by consultant/vendor).

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SPE	CIAL MITIGATION INSTRUCTIONS
Items to be Installed	Site Access Point Ensure that a 7-Step Guidelines sign is installed. Ensure that a NOC Information sign is installed. Verizon Wireless Proposed Alpha Sector Location Ensure that (1) Notice sign is installed. Install a barrier that is 6' long, as depicted in the site diagrams. Ensure that (1) Notice sign is installed on the barrier. Verizon Wireless Proposed Beta Sector Location Ensure that (1) Caution sign is installed. Ensure that (2) Caution sign is installed. Ensure that (2) Caution signs are installed with (1) Caution sign on each I-Beam. Verizon Wireless Proposed Gamma Sector Location Ensure that (1) Caution sign is installed. Install a barrier that is 6' long, as depicted in the site diagrams. Ensure that (1) Caution sign is installed. Install a barrier that is 6' long, as depicted in the site diagrams. Ensure that (1) Caution sign is installed. Install a barrier that is 6' long, as depicted in the site diagrams. Ensure that (1) Caution sign is installed.
Items to be Removed	N/A
Items to be Repaired/Replaced	N/A

Notes:

- ∉ Barriers were only proposed in areas 6' from the unprotected roof edges.
- ∉ Data concerning all other carriers on site was unavailable and therefore not included in this report.





5. Appendix A: RF Consultant Certifications

a. Preparer Certification

I, Nick Kutzke, the preparer of this report, am familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

Nick Kutzke

b. Reviewer Certification

I, Anthony Handley, the reviewer and approver of this report, am fully aware of and familiar with the Rules and Regulations of both the Federal Communications Commission (FCC) and the Occupational Safety and Health Administration (OSHA) with regard to Human Exposure to Radio Frequency Radiation. I am also fully aware of and familiar with the Verizon Wireless Signage & Demarcation Policy. I have reviewed this Radio Frequency Exposure Assessment report and believe it to be both true and accurate to the best of my knowledge.

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6. Appendix B: Reference Information

a. FCC Rules & Regulations

The Federal Communications Commission (FCC) has established safety guidelines relating to RF exposure from cell sites. The FCC developed those standards, known as Maximum Permissible Exposure (MPE) limits, in consultation with numerous other federal agencies, including the Environmental Protection Agency, the Food and Drug Administration, and the Occupational Safety and Health Administration. The standards were developed by expert scientists and engineers after extensive reviews of the scientific literature related to RF biological effects. The FCC explains that its standards "incorporate prudent margins of safety." The following represents explanations of the most applicable information:

Two Classifications for Exposure Limits

Occupational – Applies to situations in which persons	General Population – Applies to situations in which
are "exposed as a consequence of their <i>employment</i> "	persons are "exposed as a consequence of their
and are "fully aware of the potential for exposure and	employment may not be made fully aware of the
can exercise control over their exposure".	potential for exposure or <i>cannot exercise control</i> over
	their exposure". Generally speaking, those without
	significant and documented RF Safety & Awareness
	training would be in the General Population
	classification.

Environment Classification

<u>Controlled</u> – Applies to environments that are restricted	<u>Uncontrolled</u> – Applies to environments that are
or "controlled" in order to prevent access from members	unrestricted or "uncontrolled" that allow access from
of the General Population classification.	members of the General Population classification.

Limits for Occupational/Controlled Exposure						
Frequency						
Range	(S)	E ² , H ² , or S				
(MHz)	(mW/cm^2)	(minutes)				
300-1500	f/300	6				
1500-100,000	5	6				
Limits for General Population/Uncontrolled ExposureFrequencyPower DensityAveraging Time						
Range	(S)	E ² , H ² , or S				
(MHz)	(mW/cm ²)	(minutes)				
300-1500	f/1500	30				
1500-100,000	1	30				
f = frequency in MHz						

Significant Contribution to the RF Environment

Any carrier contributing an aggregate MPE percentage of 5 or more (to the applicable RF Environment Classification) is defined as a significant contributor. This means that if any area is determined to be out of compliance with FCC rules, all significant contributors are jointly responsible for correcting any deficiencies.

b. Occupational Safety and Health Administration (OSHA) Requirements

A formal adopter of FCC Standards, OSHA stipulates that those in the Occupational classification must complete training in the following: RF Safety, RF Awareness, and Utilization of Personal Protective Equipment. OSHA also provides options for Hazard Prevention and Control:

	Hazard Prevention	Control				
∉	Utilization of good equipment	∉	Employ Lockout/Tag out			
∉	Enact control of hazard areas	∉	Utilize personal alarms & protective clothing			
∉	Limit exposures	∉	Prevent access to hazardous locations			
∉	Employ medical surveillance and accident	∉	Develop or operate an administrative control			
	response		program			

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c. RF Signage

Areas or portions of any transmitter site may be susceptible to high power densities that could cause personnel exposures in excess of the FCC guidelines. These areas must be demarcated by conspicuously posted signage that identifies the potential exposure. Signage MUST be viewable regardless of the viewer's position.

GUIDELINES	NOTICE	CAUTION	WARNING
This sign will inform anyone of the basic precautions to follow when entering an area with transmitting radiofrequency equipment.	This sign indicates that RF emissions may exceed the FCC General Population MPE limit.	This sign indicates that RF emissions may exceed the FCC Occupational MPE limit.	This sign indicates that RF emissions may exceed at least 10x the FCC Occupational MPE limit.
All personnel entering this site must be authorized. All personal for antennas, notify owners and disable appropriate transmitters. All be personal for antennas, notify owners and disable appropriate transmitters. All be personal RF monitors while working near antennas. Never operate transmitters without shields during normal operation. Do not operate base station antennas in equipment room.	NOTICE Opposite Opposite		<image/>

|--|

Information signs are used as a means to provide contact information for any questions or concerns. They will include specific cell site identification information and the Verizon Wireless Network Operations Center phone number.

INFORMATION This is a Verizon Wireless Antenna Site Site ID: For information, call: 800-264-6620

d. Physical

Physical barriers are control measures that require awareness and participation of personnel. Physical barriers are employed as an additional administration control to complement RF signage and physically demarcate an area in which RF exposure levels may exceed the FCC General Population limit.

e. Indicative Markers

Indicative markers are visible control measures that require awareness and participation of personnel, as they cannot physically prevent someone from entering an area of potential concern. Indicative markers are employed as an additional administration control to complement RF signage and visually demarcate an area in which RF exposure levels may exceed the FCC General Population limit.



Network Engineering - UPNY 1275 John Street, Suite 100 West Henrietta, New York 14586

October 16, 2020

Planning Commission City of Amsterdam

RE: Application for Site Plan Review/Special Use Permit

Cellco Partnership d/b/a Verizon Wireless, Building located at 27-31 Main Street

Ladies and Gentlemen:

With respect to the above application, and in accordance with applicable provisions of the Wireless Telecommunications Facilities Siting Law for the City of Amsterdam, Cellco Partnership d/b/a Verizon Wireless ("Verizon Wireless") operates Wireless Communications Forth Generation (4G) Services, Personal Communication Service (PCS) and/or Cellular Radiotelephone Services network authorized by the Federal Communications Commission (FCC) to provide state of the art digital and/or cellular wireless communications in many parts of the nation, including upstate New York. Verizon Wireless' operations and network are licensed and regulated by the FCC.

Verizon Wireless' radio equipment is designed to transmit frequencies only within the allocated frequency bands and each transmitter is carefully adjusted to comply with FCC regulations for power output and frequency. These procedures prevent interference with other radio services, public safety communications, airport navigation, cordless phones, computers and other community office or residential household appliances.

The incidence of these transmissions causing interference with other radio service is rare. All other radio communication services, including broadcast radio and television, are assigned to specific frequency bands, separate and distinct from cellular and other frequencies. For instance AM Radio operates between 0.5 -1.5 MHz and VHF Television operates between 54 - 215 MHz. In addition, receivers for other services are similarly designed to prevent interference from out of band service. In the unlikely event that malfunctioning equipment or improper settings are shown to cause interference with an existing service, Verizon Wireless would be required, under the conditions of its FCC license, to take immediate steps to correct any problems.

Thank you for considering this application.

Very truly yours,

Mad Sulari

Rick Suhocki Radio Frequency (RF) Design Engineer

617.20 Appendix B State Environmental Quality Review VISUAL EAF ADDENDUM

This	This form may be used to provide additional information relating to Question 11 of Part 2 of the Full EAF.									
(To be completed by Lead Agency)										
Visibili	ty		Projec		nce Betw esource ()			
1.	Would t	he project be visible from:	0 - ¼	1⁄4 - 1⁄2	1⁄2 - 3	3-5	5+			
	!	A parcel of land which is dedicated to and available to the public for the use, enjoyment and appreciation of natural or man-made scenic qualities?								
	!	An overlook or parcel of land dedicated to public observation, enjoyment and appreciation of natural or man-made scenic qualities? Mohawk Valley Gateway Overlook		\checkmark						
	!	A site or structure listed on the National or State Registers of Historic Places?								
	!	State Parks?								
	!	The State Forest Preserve?								
	!	National Wildlife Refuges and State Game Refuges?								
	!	National Natural Landmarks and other outstanding natural features?								
	!	National Park Service lands?								
	!	Rivers designated as National or State Wild, Scenic or Recreational?								
	!	Any transportation corridor of high exposure, such as part of the Interstate System, or Amtrak? Amtrak	\checkmark							
	!	A governmentally established or designated interstate or inter-county foot trail, or one formally proposed for establishment or designation? Riverlink Park		\checkmark						
	!	A site, area, lake, reservoir or highway designated as scenic?								
	!	Municipal park, or designated open space? Riverlink Park		\checkmark						
	!	County road?								
	!	State road? Main St (NY-5), Church St (NY-30)	\checkmark							
	!	Local road? Market St, Pearl St, Guy Park Ave, Chuctanunda Rd, Liberty St, Bridge St	\checkmark							
2.	Is the vi	sibility of the project seasonal? (i.e., screened by summer foliage, but v	isible du	ring othe	r seasons	5)				
		Yes Vo								
3.	Are any	of the resources checked in question 1 used by the public during the til	me of ye	ar during	which th	e project	will be visible?			
		√Yes No								

DESCRIPTION OF EXISTING VISUAL ENVIRONMENT					
4. From each item checked in question 1, check those which generally describe the surrounding environment.					
				Within	
Essentially undeveloped				*¼ mile	*1 mile
Forested					
Agricultural					
Suburban Residential					
Industrial					
Commerical				\checkmark	
Urban				\checkmark	
River, Lake, Pond				\checkmark	
Cliffs, Overlooks				\checkmark	
Designated Open Space					
Flat				\checkmark	
Hilly					
Mountainous					
Other NOTE: add attachments as needed					
5. Are there visually similar projects within:					
*½ mile Yes 📝 No 1 mile	Z Yes	No 2 miles	✔ Yes □ No	3 miles 🖌 Yes	🗌 No
*Distance from project site is prov	ided for a	ssistance. Subst	itute other distance	es as appropriate.	
EXPOSURE			1,459,270		
6. The annual number of viewers likely to obs NOTE: When user data is unavailable or unknown,			is	?	
		oolimato.			
CONTEXT7. The situation or activity in which the viewer	rs are enc	aged while viewir	on the proposed an	tion is:	
	s are eng	-	UENCY		
		THE G			
Activity Travel to and from work Involved in recreational activities Routine travel by residents At a residence At worksite Other	Daily (a) (a) (b) (c) (c) (c) (c) (c) (c) (c) (c	Weekly O O O O O	Holidays/ Weekends O O O O O	Seasonally O O O O O O	
				F	Reset





Amsterdam, NY 12010





Looking northwest along Market Street. Proposed installation will be visible from this location. P-1

10272.13

Distance from the photographic location to the proposed installation is ±



Looking north from intersection of Pearl St., Market St., and Guy Park Ave. Proposed installation will be visible from this location.



10272.13

Distance from the photographic location to the proposed installation is $\pm 1,100$ feet.

Tectonic





Looking northwest along E. Main St., south of Main St. Proposed installation will be visible from this location. P-3

Distance from the photographic location to the proposed installation is ±735 feet.





Looking northwest along E. Main St., south of Main St. Proposed installation will be visible from this location. S-3

Distance from the photographic location to the proposed installation is ±735 feet.





Looking southeast from intersection of E. Main St. and Liberty St. Proposed installation will be visible from this location.

Distance from the photographic location to the proposed installation is ±1,185 feet.



Looking southeast from parking Garage at Riverfront Center. Proposed installation will be visible from this location.

Tectonic

P-5 10272.13

Distance from the photographic location to the proposed installation is ±1,050 feet.



Looking southeast from parking Garage at Riverfront Center. Proposed installation will be visible from this location.

Tectonic

S-5

Distance from the photographic location to the proposed installation is $\pm 1,050$ feet.



Looking southeast from the top of the parking Garage at Riverfront Center. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is \pm

Tectonic



Tectonic Looking northeast from north end of Chuctanunda Rd. Proposed installation will be visible from this location.

P-7

Distance from the photographic location to the proposed installation is ±575 feet.





Tectonic

P-8

Distance from the photographic location to the proposed installation is ± 340 feet.





Looking southwest from south end of ST-30 Bridge. Proposed installation will be visible from this location.

P-9

Distance from the photographic location to the proposed installation is ±1,180 feet.



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic



Date: September 8, 2020

Structural Analysis Report - New Site Build

Project Information:	
Carrier:	Verizon Wireless
Scope of Work:	"New Site Build"
Site Name:	Amsterdam Center
Site Address:	29 East Main Street, Amsterdam, NY 12010
Site Type:	Rooftop Equipment Antenna Mounts
Tectonic Project Number:	10272.13

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C. is pleased to submit this **"Structural Analysis Report – New Site Build"** to determine the structural integrity of the abovementioned rooftop telecommunication site.

20161493464

The purpose of the analysis is to design and determine the acceptability of the stress level of the proposed antenna mounts. Based on our analysis we have determined the stress levels to be as follows:

Alpha Sector: Beta Sector: Gamma Sector: Delta Sector:

RE Project Number:

Sufficient Sufficient Sufficient

This analysis has been performed in accordance with the ASCE 7-16 and the 2020 NYS Uniform Building Code based upon an ultimate 3-second gust wind speed of 110 mph as required for use in the TIA-222-H Standard. Exposure Category C and Risk Category II were used in this analysis.

We appreciate the opportunity of providing our continuing professional services to you. If you have any questions or need further assistance on this or any other projects please give us a call.

Structural analysis prepared by/reviewed by: Joseph Lubrano/Jeremy Vassell

Respectfully submitted by:

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C.,

Edward N. Iamiceli, P.E. Managing Director - Structural

Project Contact Info

1279 Route 300 | Newburgh, NY 12550 845.567.6656 Tel | 845.567.8703 Fax

tectonicengineering.com Equal Opportunity Employer



September 8, 2020 Page 2

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14) APPENDIX J – Sector C Additional Calculations

15) APPENDIX K References

1) INTRODUCTION/PURPOSE

Design and analysis of the proposed antenna mounts, connections and existing supporting building structure due to the loading of the proposed equipment and related appurtenances.

2) ANALYSIS CRITERIA

TIA-222 Revision:	TIA-222-H
ASCE Revision:	7-16
Risk Category:	II
Wind Speed:	110 mph
Exposure Category:	С
Topographic Factor:	1.0
Ice Thickness:	1.00 in
Wind Speed with Ice:	40 mph
Service Wind Speed:	60 mph

Table 1 – Proposed Antenna Equipment Loading Information

Mounting Level (ft)	Carrier Designation	Quantity	Equipment Manufacturer	Equipment Model	Proposed Mount Type	Note
108		4	JMA	MX10-FRO860-04	Flush Single Pipe Mount	1
(Sector A)		2	Samsung	B5/B13 RRH 4T4R		
98		2	Samsung	B2/B66A RRH 4T4R	Unistrut Frame	2
(Sector D)		1	Raycap	12 Circuit OVP	Unistrut Frame	2
(2	Samsung	CBRS RRH 4T4R		
	Verizon Wireless	2	JMA	MX10-FRO860-04		
104 (Sector B)		1	Samsung	B5/B13 RRH 4T4R		2
		1	Samsung	B2/B66A RRH 4T4R	Mount Frame	
		1	Samsung	CBRS RRH 4T4R		
		1	Raycap	6 Circuit OVP		3
		2	JMA	MX10-FRO860-04		
104 (Sector C)		1	Samsung	B5/B13 RRH 4T4R	Site Pro 1	2
		1	Samsung	B2/B66A RRH 4T4R	Non-Penetrating Ballast Mount	2
		1	Samsung	CBRS RRH 4T4R	(P/N: RTP10-3RRU)	
		1	Raycap	6 Circuit OVP	· · · · · · · · · · · · · · · · · · ·	3

Notes:

To be mounted on existing mounts at Sector A & proposed mounts at Sector D. To be mounted on proposed mounts.

1) 2) 3) 6 Circuit OVP may be substituted for 12 Circuit OVP at Sectors B or C.

3) ANALYSIS PROCEDURE

Table 3 - Documents Provided

Document	Prepared By	Dated
RFDS	Verizon Wireless	09/01/20
Lease Exhibit Drawings	Tectonic Engineering Consultants,	06/19/20
Field Notes & Photos	Geologists & Land Surveyors, D.P.C.	02/13/20

3.1) Analysis Method

A tool internally developed, using Microsoft Excel, was used to calculate loading on all equipment, appurtenances and members for various load cases. Selected output from the analysis is included in Appendix A.

RISA-3D, a commercially available analysis software package, was used to check the supporting building framing and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendices C, F & I.

3.2) Assumptions

- 1) All structural elements were properly fabricated, installed, and maintained in good condition in accordance with its original design, standards, and/or manufacturer's specifications.
- 2) The configuration of equipment and other appurtenances are as specified in Tables 1 and 2.
- All member connections are assumed to have been designed to meet or exceed the load carrying capacity of the connected member unless otherwise specified in this report.
 All steel grades have been assumed as follows, unless noted otherwise:

4)	Steel grades have been assumed as follows, unless noted	d otherwise:
	Channel, Solid Round, Angle, Plate, Building Steel	ASTM A36 (GR 36)
	HSS (Rectangular)	ASTM 500 (GR B-46)
	Pipe	ASTM A53 (GR 35)
	Connection Bolts	ASTM A325

This analysis may be affected if any assumptions are not valid or have been made in error. Tectonic should be notified to determine the effect on the structural integrity of the mount.

4) ANALYSIS RESULTS

Table 4 - Stresses/Adequacy

Notes	Sector	Mounting Level (ft)	Maximum % Capacity	Pass / Fail
1	Alpha	108	59	Pass
2	Beta	104	33	Pass
3	Gamma	104	70	Pass
4	Delta	98	28	Pass

Structure Rating (max from all sectors) =	70%
---	-----

Note:

 See additional documentation in Appendices C & D for analysis output calculations supporting the % capacity utilized.

2) See additional documentation in Appendices F & G for analysis output calculations supporting the % capacity utilized.

3) See additional documentation in Appendices I & J for analysis output calculations supporting the % capacity utilized.

4.1) Results/Conclusions

The proposed antenna mounts, connections and supporting building structure are adequate to support the proposed installation as detailed in the following report.

Contractor shall field verify existing conditions and recommendations as noted on the construction drawings and notify the design engineer of any discrepancies prior to construction. Any further changes to the equipment, antennas and/or appurtenance configuration should be reviewed with respect to their effect on structural loads prior to implementation

APPENDIX A

SOFTWARE INPUT CALCULATIONS



	_		lob No ·	10272.13		
Tectoni			Sheet No.:		of	4
rectom	C '	Cal	culated By:		Date :	4 09/10/20
PRACTICAL SOLUTIONS. EXCEPTIONAL SE	RVICE.		hecked By:		Date :	09/10/20
		0	пескей Бу.		Dale .	
l w				ER TIA-222-H		
<u> </u>						
W.O.	10272.13					1
Project Name		n Cente	r			•
				am, NY 12010		
	Montgome					
		. <u>J</u>				1
Tower Type	RT	Roofto	p			
Structure Height		ft				
Supporting Str Height		ft Or g	ound mour	nted		
Risk Category			ate risk			
Exposure Category		Open t	errain			
Topo Category	1	Flat or	rolling terra	ain		
Height of crest	0	ft	-			
Mean elevation (zs)	279.41	ft				
			_			
Basic Wind Spee	d (3-sec gu	st):		Rooftop \	Nind Speed-up	
Without ice	110	mph		Width of windward	face (Ws)	86.76 ft
With ice	40	mph		Height of windward	face (Hs)	97.50 ft
Maintenance Wind	60	mph		Height of parapet		3.67 ft
Ice thickness	1.00	in		Horz distance from	()	43.38 ft
		•		Height above roof (Zr)	14.17 ft
Importance Fa		1				
Ice thickness		4		Height	**z (ft)	108
Earthquake		4			Kh	N/A
Supporting Da	1	4			Kzt	1.00
Ks Ke					Kz Kiz	1.29
Ke K _c					No Ice	1.13 37.47
K _t				Wind Pressure, qz	With Ice	4.95
	N/A			(psf)	Service	4.95
l Z _g				(tiz)	Ice Thk	1.13
				(uz)	No Ice	37.47
K _{z,min}				Appurtenances	With Ice	4.95
K _d				(qzGh)	Service	11.15
G _h						_
		1				
**Note:	The worst	case ce	nterline hei	ght is conservatively	vused.	
				- ,		

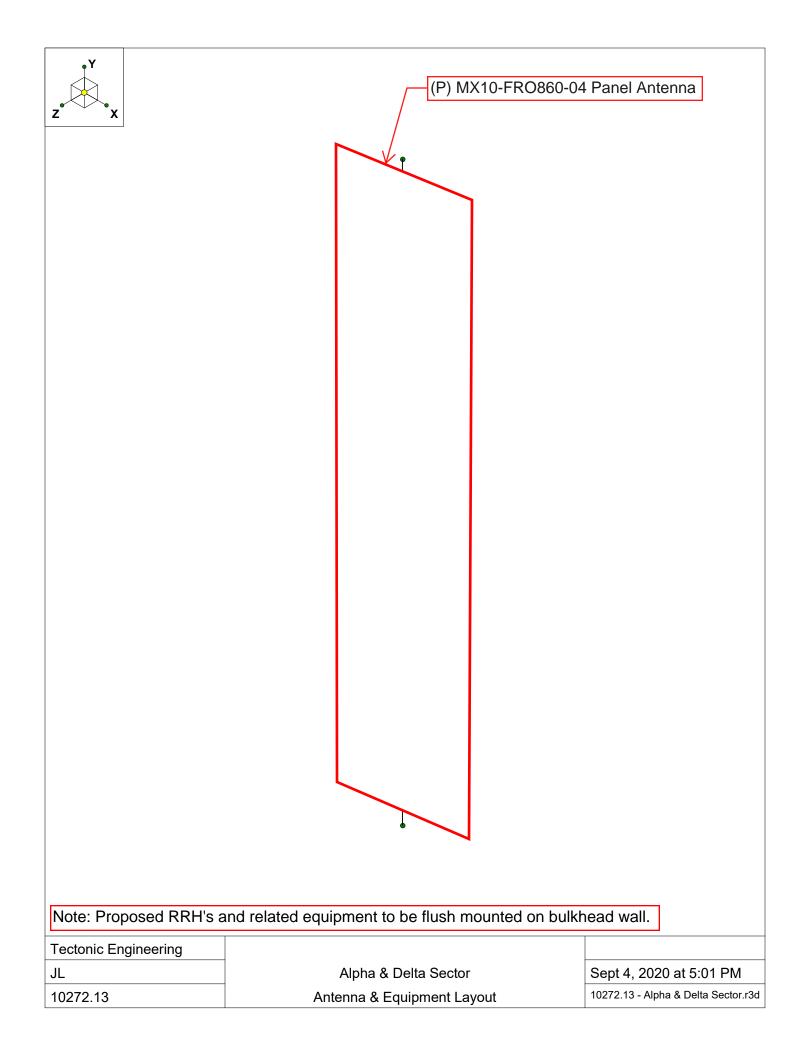
Checked by Checked by Date : Equipment Information Shielding Tactor, Ka 1 Shielding Tactor, Ka 1 Shielding Tactor, Ka 1 Other in the second s	ectonic														Job No. Sheet No. Calculated By	10272.13 2 JL	of Date :	4 09/10/2
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$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Antenna Configuration	(E) or (P)	Quantity	z (ft)	Diameter						Normal (Aa)N	Face Normal (CaAa)N	Face (Aa)T	Side Face (CaAa)T	Antenna Wind Load Each	Antenna Wind Load Each	Weight	Tota Weig (Ib)
B2/B66A RRH P 4 108 1.29 15.88 11.93 Flat 1.20 1.21 1.28 6.16 77 58 40.4 161 B5/B13 RRH P 4 108 1.29 15.88 10.03 Flat 1.20 1.20 1.71 8.20 1.08 5.18 77 49 40.4 161 12/6 Circuit OVP P 4 108 1.68 18.20 6.30 Flat 1.20 1.23 2.55 12.25 0.88 4.35 115 41 43.5 174 Length or Diameter (ft) z(ft) Length or Diameter (ft) width (in) Depth (in) Flat or Cylindrical? Antenna (Ca)N Antenna (Ca)N Face Normal (Ca)N Windward (ft^2) Side Side Face (CaAa)T Windward (CAA)T Normal (ft^2) Antenna Normal (ft^2) Side Side Face (CaAa)T Windward Natenna (CaAa)T Side Side Face (CaAa)T Windward (ft^2) Side Side Face (CaAa)T Windward (ft^2) Side Side Face (CaAa)T Windward (ft^2) Side Side Face (CaAa)T Windward (ft	MX10FRO860-xx	Р	8	108	7.99	15.00	7.40	Flat	1.37	1.60	9.99	109.73	4.93	63.03	514	295	68.4	547.
B5/B13 RRH P 4 108 1.29 15.88 10.03 Flat 1.20 1.71 8.20 1.08 5.18 77 49 40.4 161 12/6 Circuit OVP P 4 108 1.68 18.20 6.30 Flat 1.20 1.23 2.55 12.25 0.88 4.35 115 41 43.5 174 Line Line <thline< th=""> Line <thline< th=""> Line <thline< th=""></thline<></thline<></thline<>	CBRS 4T4R RRH	Р	4	108	1.01	8.50	4.15	Flat	1.20	1.22	0.71	3.43	0.35	1.70	32	16	17.6	70.
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12/6 Circuit OVP P 4 108 1.68 18.20 6.30 Flat 1.20 1.23 2.55 12.25 0.88 4.35 115 41 43.5 174 Line Line <thline< th=""> Line <thline< th=""></thline<></thline<>	B5/B13 RRH	Р	4	108	1.29	15.88	10.03	Flat	1.20	1.20	1.71	8.20	1.08	5.18	77	49	40.4	161
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Antenna Configuration (E) or (P) Quantity z (ft) Length or Diameter (ft) Width (in) Depth (in) Flat or Cylindrical? Antenna (Ca)N Antenna (Ca)N Face Normal (Ca)N Windward Face (ft) Side Side (CaAa)N (ft^2) Windward Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) <th< td=""><td></td><td>-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1115</td></th<>		-																1115
Antenna Configuration (E) or (P) Quantity z (ft) Length or Diameter (ft) Width (in) Depth (in) Flat or Cylindrical? Antenna (Ca)N Antenna (Ca)N Face Normal (Ca)N Windward Face (ft) Side Side (CaAa)N (ft^2) Windward Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side Side (CaAa)N (ft^2) Normal Side Side Side Side Side Side Side Side																		
Antenna Configuration (E) or (P) Quantity z (ft) Length or Diameter (ft) Width (in) Depth (in) Flat or Cylindrical? Antenna (Ca)N Antenna (Ca)N Face Normal (Ca)N Windward Face (ft) Side Side (CaAa)N (ft^2) Windward Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side Side Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) Normal Side (CaAa)N (ft^2) <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>																		
Antenna Configuration (E) or (P) Quantify z (ft) Length or Diameter (ft) Width (in) Depth (in) Flat or Qlindrical? Antenna (Ca)N Antenna (Ca)N Antenna (Ca)N Antenna (Ca)N Normal (Ca)N Face Normal (Ca)N Side Face (CaAa)N Side Face (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Face Side Face (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Antenna (CaAa)N Side Face (CaAa)N Side Face (CaAa)N Antenna (CaAa)N Antenna (trav)N Antenna (trav)N Antenna (CaAa)N Antenna (trav)N Antenna (CaAa)N Antenna (trav)N Antenna (trav)N </td <td>WIND WITH ICE</td> <td></td> <td>lce Thk =</td> <td>1.13</td> <td>in</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td>1</td> <td></td> <td></td> <td>-</td>	WIND WITH ICE		lce Thk =	1.13	in				-		-		-		1			-
CBRS 4T4R RRH P 4 108 1.19 10.76 6.41 Flat 1.20 1.200 1.07 5.14 0.64 3.06 6 4 2.1 11.1 B2/B66A RRH P 4 108 1.48 18.13 14.18 Flat 1.20 1.200 2.23 10.72 1.75 8.39 13 10 6.0 31. B5/B13 RRH P 4 108 1.48 18.13 12.28 Flat 1.20 1.200 2.23 10.72 1.75 8.39 13 10 6.0 31. B5/B13 RRH P 4 108 1.48 18.13 12.28 Flat 1.20 1.200 2.23 10.72 1.51 7.26 13 9 5.6 29.5 12/6 Circuit OVP P 4 108 1.87 20.45 8.55 Flat 1.20 1.206 3.19 15.31 1.33 19 8 6.9 36. <	Antenna Configuration	(E) or (P)	Quantity	z (ft)	Diameter						Normal (Aa)N	Face Normal (CaAa)N	Face (Aa)⊤	Side Face (CaAa)T	Antenna Wind Load Each	Antenna Wind Load Each	for Weight	lce Wei Alone (
B2/B66A RRH P 4 108 1.48 18.13 14.18 Flat 1.20 1.200 2.23 10.72 1.75 8.39 13 10 6.0 31. B5/B13 RRH P 4 108 1.48 18.13 12.28 Flat 1.20 1.200 2.23 10.72 1.51 7.26 13 9 5.6 29. 12/6 Circuit OVP P 4 108 1.87 20.45 8.55 Flat 1.20 1.206 3.19 15.31 1.33 6.43 19 8 6.9 36.			-													-		156.
B5/B13 RRH P 4 108 1.48 18.13 12.28 Flat 1.20 1.200 2.23 10.72 1.51 7.26 13 9 5.6 29. 12/6 Circuit OVP P 4 108 1.87 20.45 8.55 Flat 1.20 1.206 3.19 15.31 1.33 6.43 19 8 6.9 36.																		
12/6 Circuit OVP P 4 108 1.87 20.45 8.55 Flat 1.20 1.206 3.19 15.31 1.33 6.43 19 8 6.9 36.																		
			4	100	1.07	20.43	0.00	Fiat	1.20	1.200					19	0	0.9	

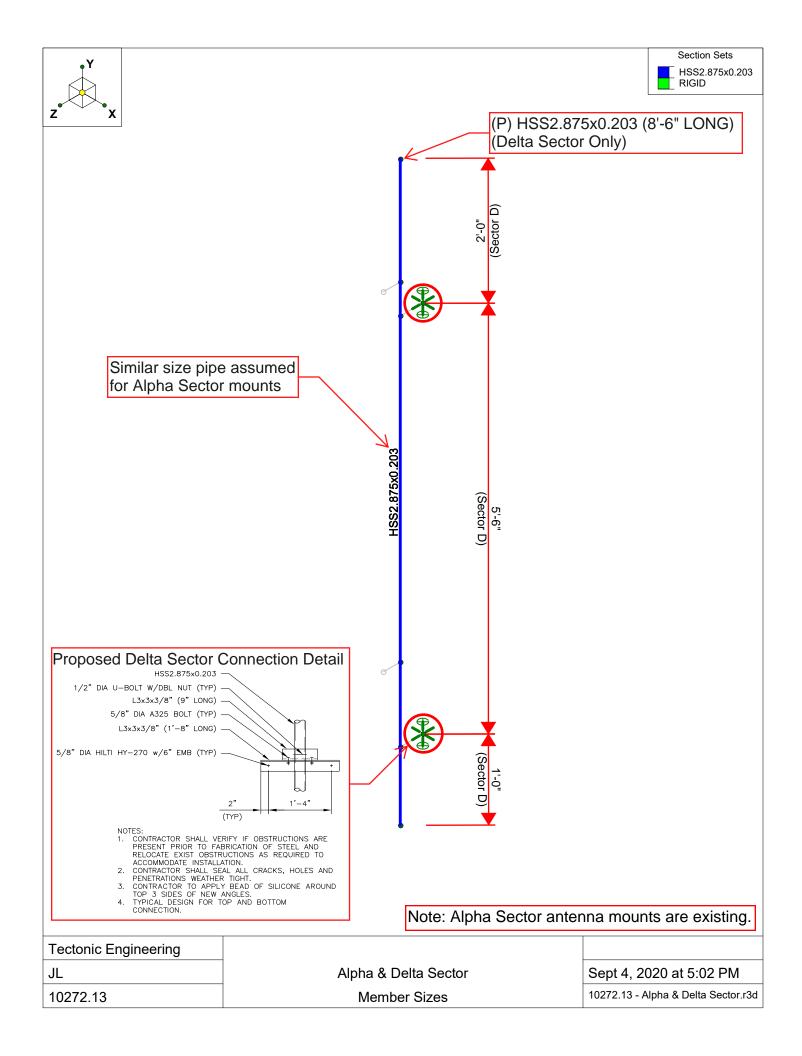
										Job No. Sheet No. culated By hecked By	10272.13 3 JL	of Date : Date :	4 09/10/20
				Moun	ting Syst	em Infor	mation						
Mount Center Line:	108	ft]						Peduction	n Factor =	1	Sec	tion 16.6
Mount Part	Quantity	Length (ft)	Projected Width (in)	Depth (in)	Flat or Cylindrical?	Force Coefficient	Projected Area (ft^2)	Wind Force (Ibs/ft)	Ice Weight Area (ft^2)	Ice Weight (Ibs/ft)	Projected Area with Ice (ft^2)	Wind Force Ice (Ibs/ft)	Maintenance Wind Force (Ibs/ft)
HSS1.660x0.140	1	8.00	1.66	1.66	Cylindrical	1.2	1.33	6.2	3.47	2.3	3.13	1.9	4.4
HSS2.375x0.154	1	8.00	2.38	2.38	Cylindrical	1.2	1.90	8.9	4.97	3.3	3.70	2.3	5.2
HSS2.875x0.203	1	8.00	2.88	2.88	Cylindrical	1.2	2.30	10.8	6.02	4.0	4.10	2.5	5.7
HSS3.500x0.216	1	8.00	3.50	3.50	Cylindrical	1.2	2.80	13.1	7.33	4.8	4.60	2.8	6.4
L3x3x3/8"	1	8.00	3.00	3.00	Flat	2	4.00	18.7	8.00	5.3	7.00	4.3	9.8

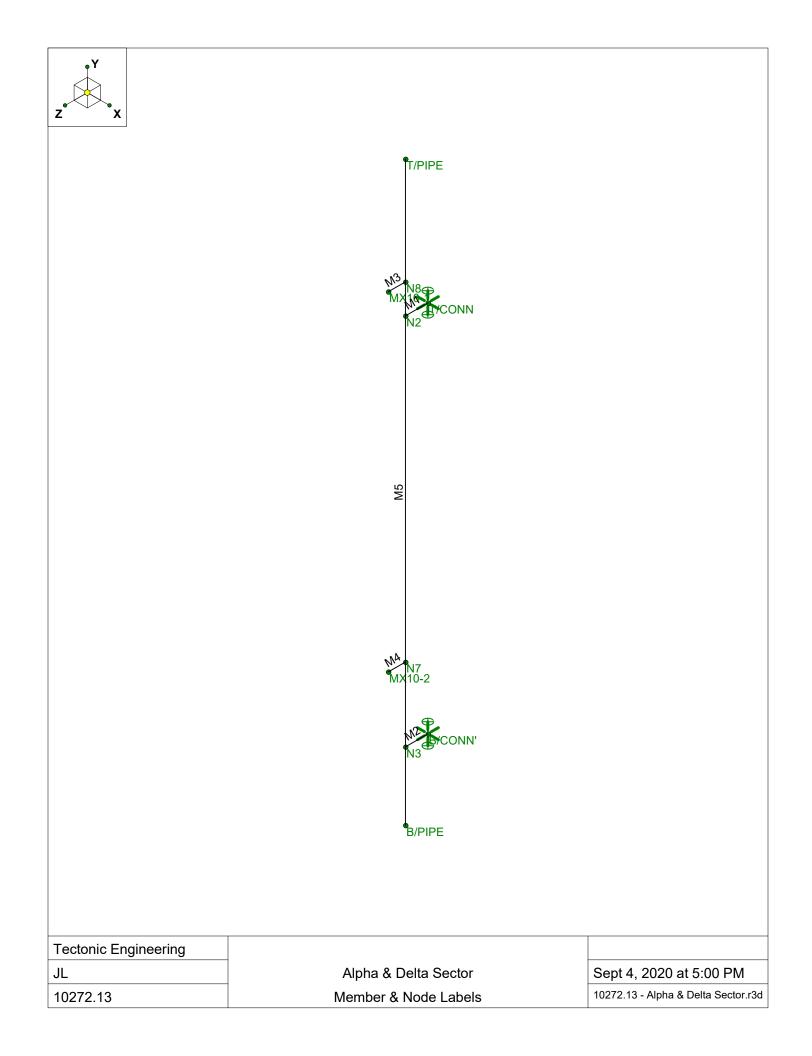
			Job No.	10272.13			
Tectonic			Sheet No.	4	of	4	
PRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE,		Ca	lculated By	JL	Date :	09/10/20	
		C	Checked By		Date :		
		<u>Seisn</u>	nic Check	(
<u>Tower Infor</u>	mation			Geographic	<u>c Information</u>		
Tower Type:	RT		City:	Amsterdam			
Structure Height	97.5	ft	State:	New York			
Supporting Structure Height	0	ft	County:	Montegomery			
Mount Height	108	ft	Latitude:	42.936985	Longitude:	-74.193636	
<u>Seismic Info</u>	rmation						
Risk Category							
Importance Factor	1.00						
Site Soil Classificaiton	D		Table 2-10)			
Ss	0.218		https://aso	ce7hazardtool.or	nline/		
S ₁	0.063						
Fa	1.6		(Table 2-1	1, interpolation a	llowed)		
F _v	2.4		(Table 2-12	2, interpolation a	llowed)		
S _{DS}	0.233		Section 2.7	7.5			
S _{D1}	0.1008						
R	3.00		Section 16	.7			
As	3.00		Section 16	.7 & 2.7.8			
Cs	0.08	>	0.03				
	Equiv	valent Late	ral Force P	rocedure			
Equipment (Discrete Appurte				<u></u>			
					Shear		Seismic
		Qty per		Antenna	Vs=Cs*W	Vert. Seismic	load (Eh,
Antenna Configuration	(E) or (P)	Sector	z (ft)	Weight (lb)	(lbs)	load (Ev, lbs)	lbs)
MX10FRO860-xx	Р	8	108	68	5	3	5
CBRS 4T4R RRH	Р	4	108	18	1	1	1
B2/B66A RRH	Р	4	108	40	3	2	3
B5/B13 RRH	P	4	108	40	3	2	3
12/6 Circuit OVP	P	4	108	44	3	2	3
Mounting System (Discrete A	Appurtenance	es)					
Ev =0.2S _{DS} * D	0.0466 x D	,	"D" is the o	dead weight of th	e mount mem	bers.	
Eh= rho * Q⊧	0.08 x W			eight of structure			
	<u> </u>			-	<u> </u>		
Notes:							
1. Wind loads govern over Se	eismic loads						
Ĭ							

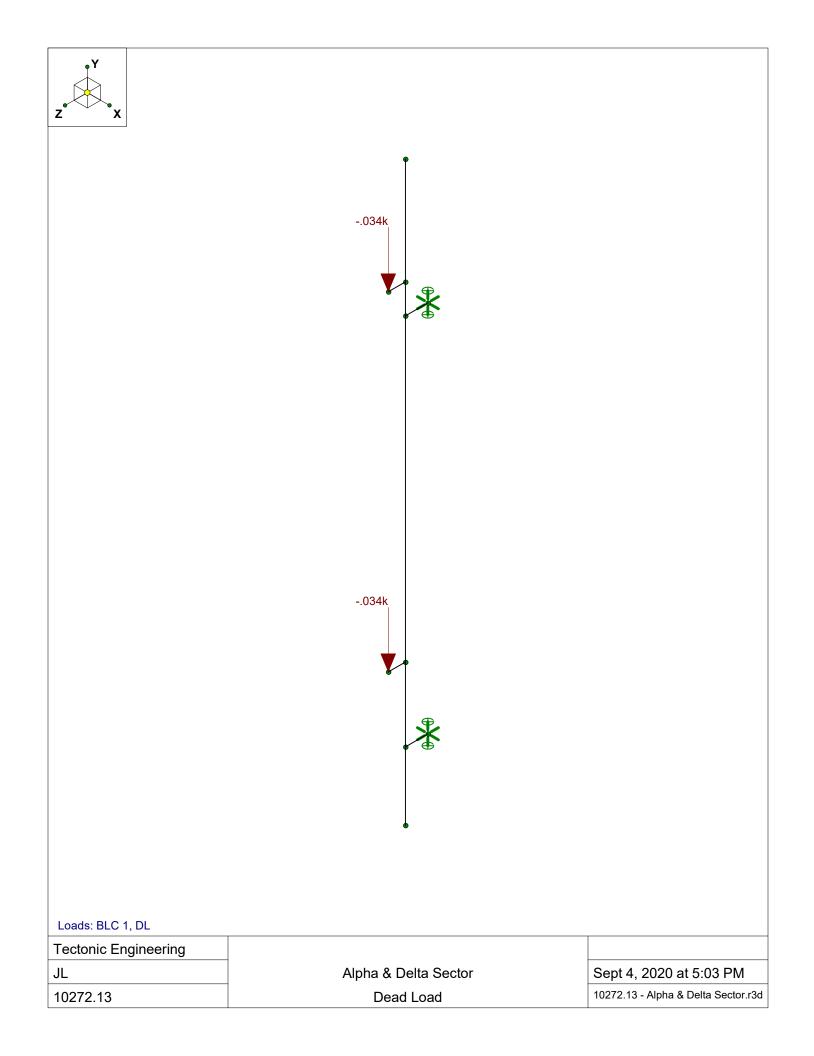
APPENDIX B – Sectors A & D

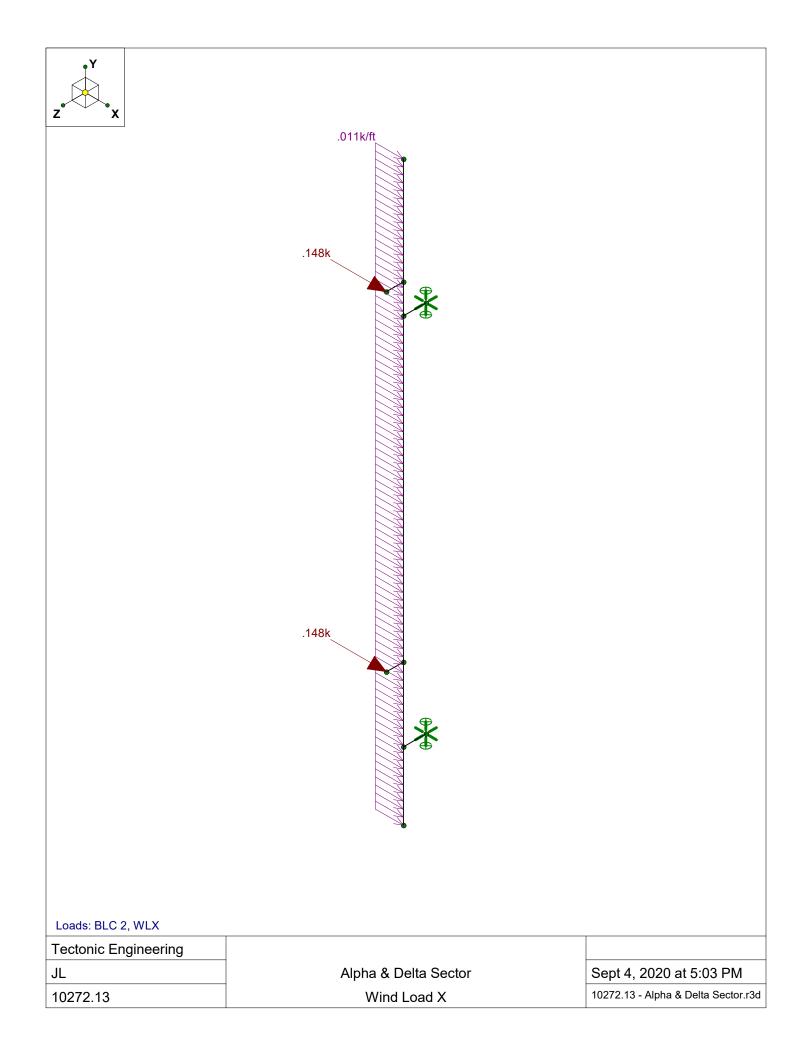
WIRE FRAME AND RENDERED MODELS

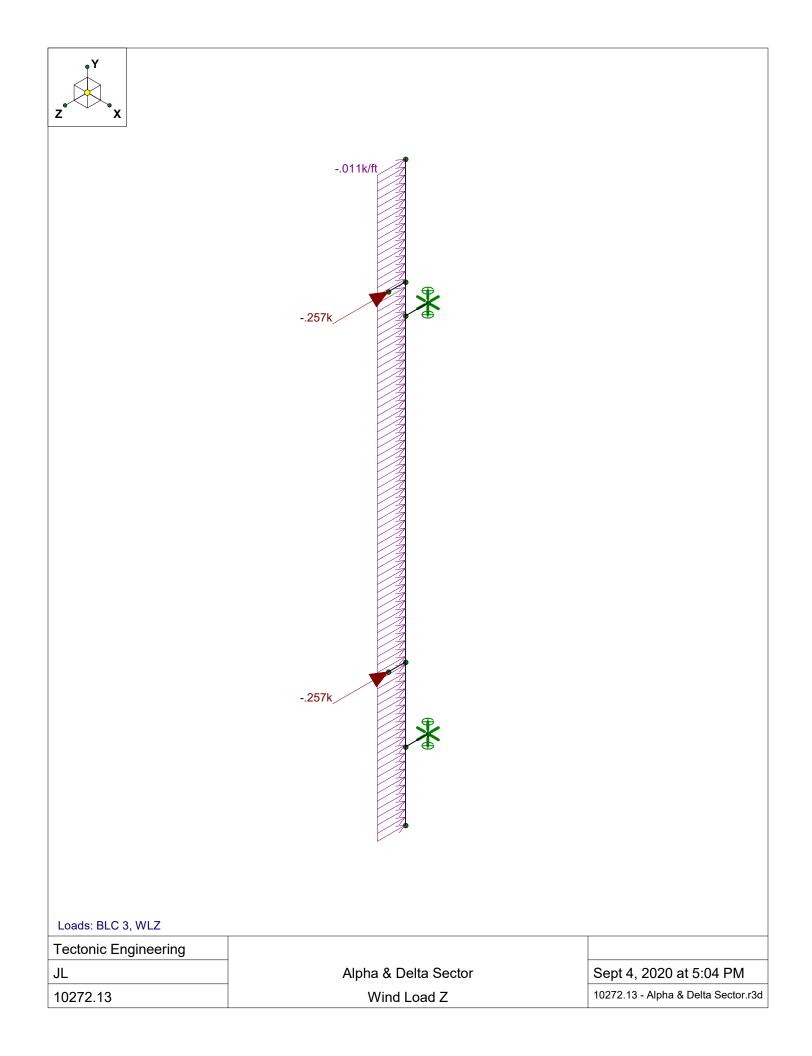


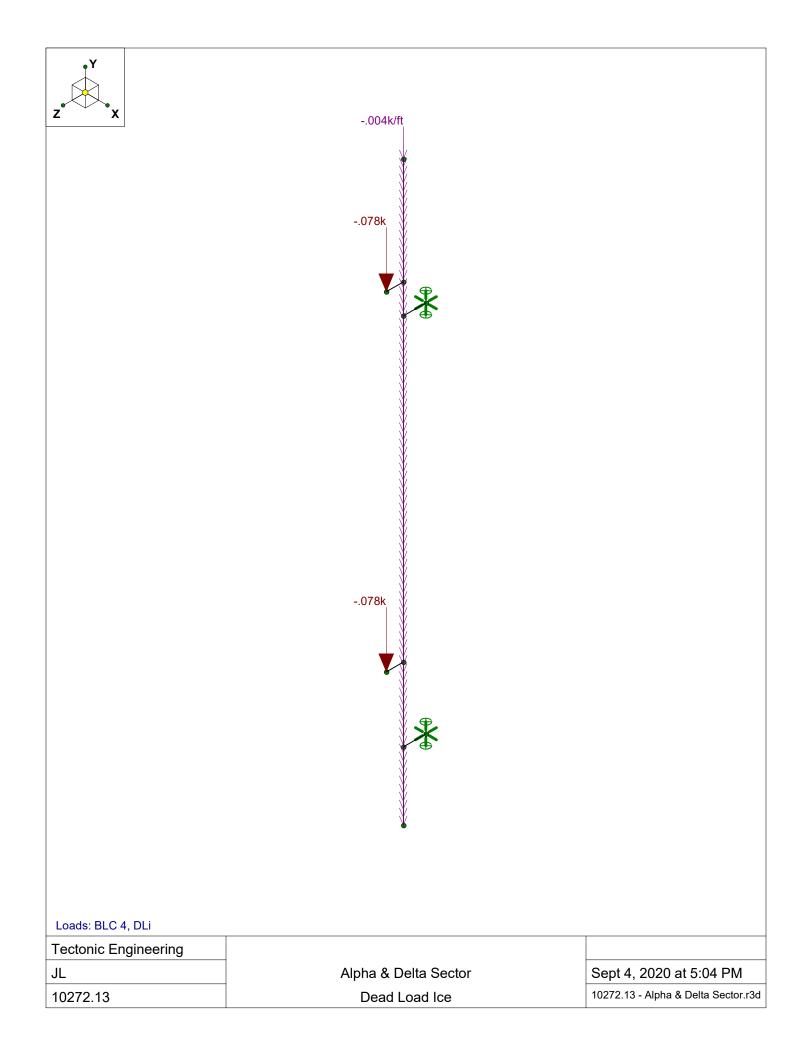


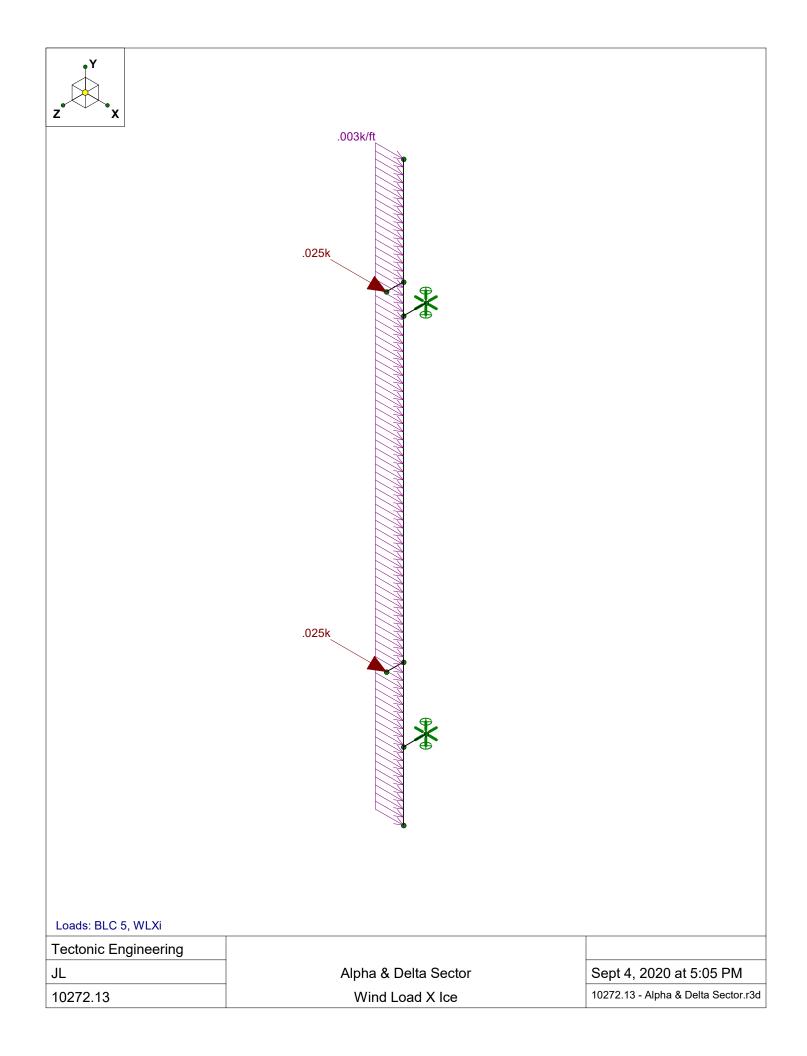


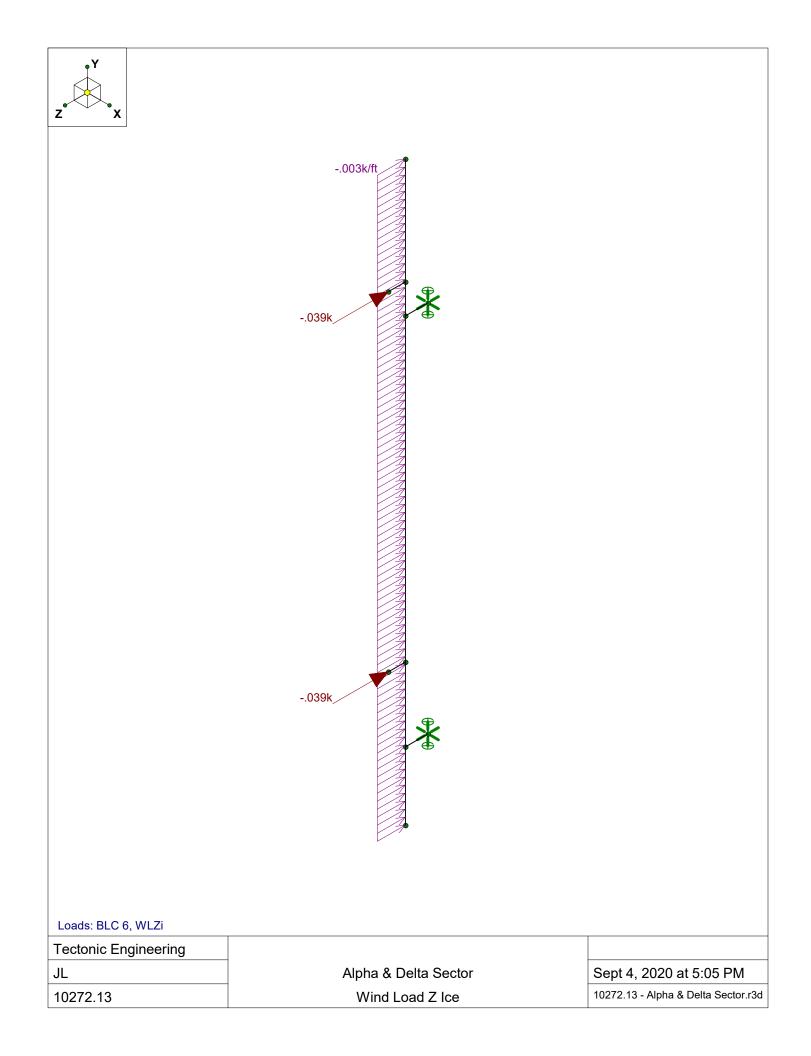


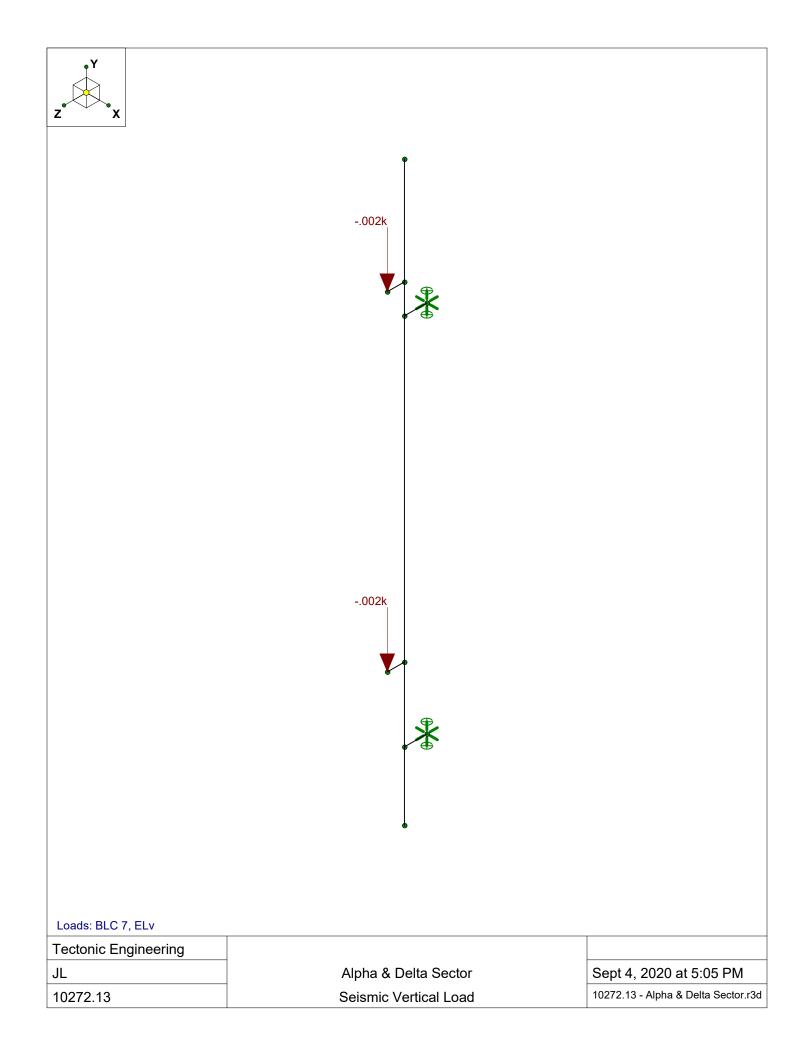


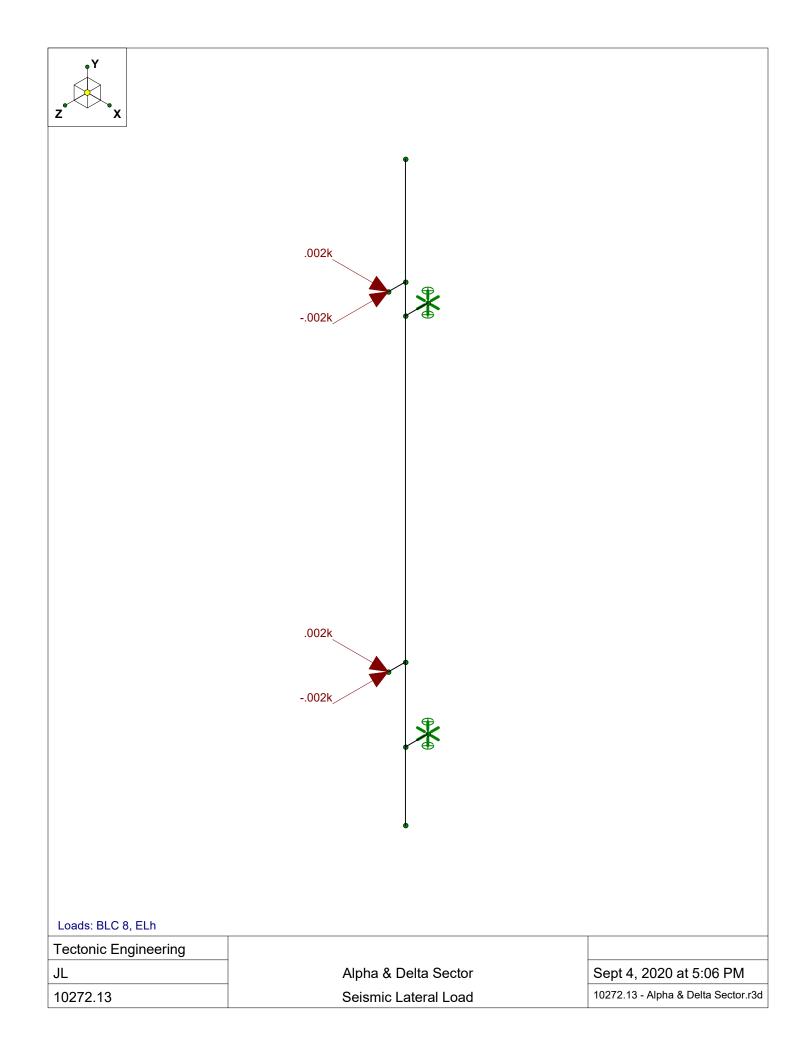








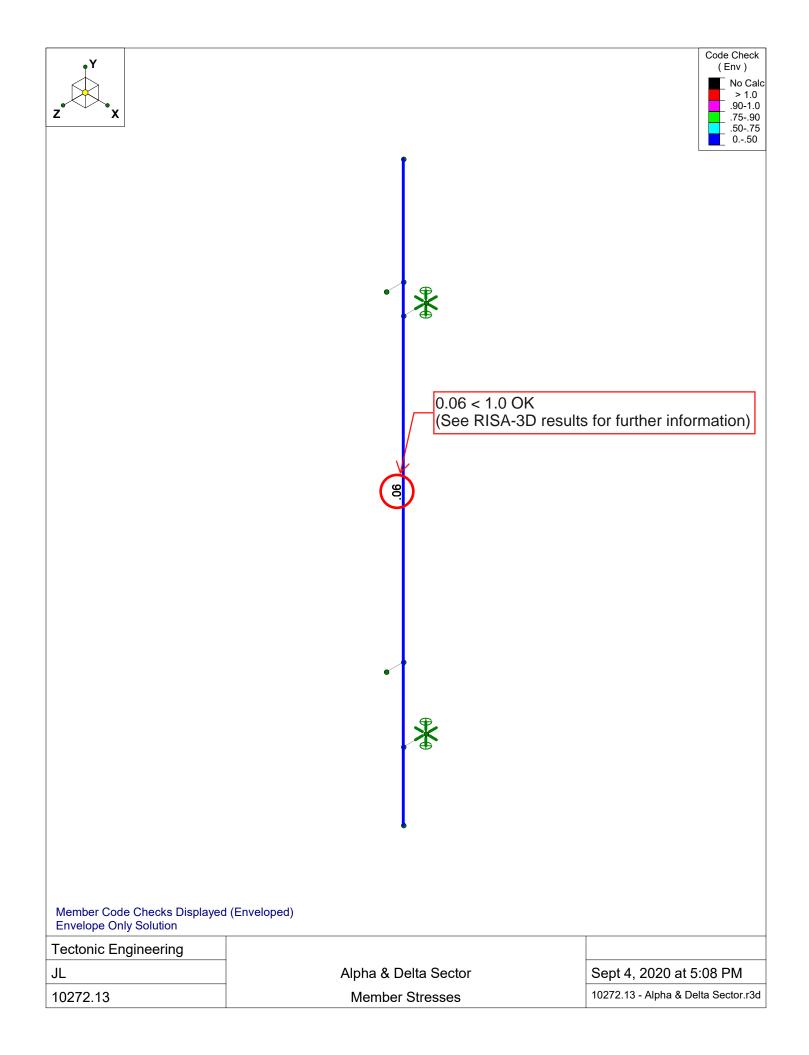




September 8, 2020

APPENDIX C – Sectors A & D

SOFTWARE ANALYSIS OUTPUT





Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr. B	29000	11154	.3	.65	.49	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design Rules	A [in2] I	yy [in4] Izz [in4] J	[in4]
1	HSS2.875x0.203	HSS2.875X0.203	Beam	Pipe	A53 Gr. B	Typical	1.59	1.45 1.45 2	2.89

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft] Lcomp b	ot[ft] L-torqu	Куу	Kzz	Cb	Function
1	M5	HSS2.875x	8.5			Lbyy					Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	.Surface(Plate/Wall)
1	DL	DĽ	-	-1.05	-	2				, , ,
2	WLX	WLX				2		1		
3	WLZ	WLZ				2		1		
4	DLi	SL				2		1		
5	WLXi	OL1				2		1		
6	WLZi	OL2				2		1		
7	ELv	ELY		057		2				
8	ELh	EL	23		23	4				

Load Combinations

		Description	Sol	P	E	3I	Fa	BLC	F	В	Fa	B	F	В	F	BLC	F	BLC	F	BLC	F	F	=	F.	
	1	*LRFD																							
	2	1.4D	Yes	Y		1	1.4																		
	3	1.2D+(WLX+WLZ) - 0 Deg	Yes	Υ		1	1.2	2	1	3															
	4	1.2D+(WLX+WLZ) - 30 Deg	Yes	Y		1	1.2	2	8	3	.5														
	5	1.2D+(WLX+WLZ) - 60 Deg	Yes	Υ		1	1.2	2	.5	3	.866														
(6	1.2D+(WLX+WLZ) - 90 Deg	Yes	Y		1	1.2	2		3	1														
	7	1.2D+(WLX+WLZ) - 120 Deg	Yes	Υ		1	1.2	2	5	3	.866														
	8	1.2D+(WLX+WLZ) - 150 Deg	Yes	Y		1	1.2	2		3	.5														
	9	1.2D+(WLX+WLZ) - 180 Deg	Yes	Υ		1	1.2	2	-1	3															
1	0	1.2D+(WLX+WLZ) - 210 Deg	Yes	Υ		1	1.2	2		3	5														
1	1	1.2D+(WLX+WLZ) - 240 Deg	Yes	Υ		1	1.2	2	5	3	8														
1	2	1.2D+(WLX+WLZ) - 270 Deg	Yes	Υ		1	1.2	2		3	-1														
1	3	1.2D+(WLX+WLZ) - 300 Deg	Yes			1	1.2	2	.5	3	8														
1	4	1.2D+(WLX+WLZ) - 330 Deg	Yes			1	1.2	2	8	3	5														
1	5	**Wind Load with Ice**																							
1	6	1.2D+1.0Di+1.0(WLXi+WLZi) - 0 Deg	Yes	Υ		1	1.2	4	1	5	1	6													
1	7	1.2D+1.0Di+1.0(WLXi+WLZi) - 30 Deg	Yes	Υ		1	1.2	4	1	5	.866	6	.5												
1	8	1.2D+1.0Di+1.0(WLXi+WLZi) - 60 Deg	Yes	Υ		1	1.2	4	1	5	.5	6	8												
	9	1.2D+1.0Di+1.0(WLXi+WLZi) - 90 Deg	Yes			1	1.2	4	1	5		6	1												
	20	1.2D+1.0Di+1.0(WLXi+WLZi) - 120 Deg	Yes	Υ		1	1.2	4	1	5	5	6	8												
	21	1.2D+1.0Di+1.0(WLXi+WLZi) - 150 Deg				1	1.2	4	1	5	8		.5												
	2	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg				1	1.2	4	1	5	-1	6													

Load Combinations (Continued)

	Description	Sol	P	B	.Fa	BLC	; F	В	Fa	.B	F I	BF	Е	BLCF	Bl	CF	E	BLC	F	F.	 F
23	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg	Yes	Υ	1	1.2	4	1	5	8	6	5										
24	1.2D+1.0Di+1.0(WLXi+WLZi) - 240 Deg	Yes	Υ	1	1.2	4	1	5	5	6											
25	1.2D+1.0Di+1.0(WLXi+WLZi) - 270 Deg	Yes	Υ	1	1.2	4	1	5		6	-1										
26	1.2D+1.0Di+1.0(WLXi+WLZi) - 300 Deg	Yes	Υ	1	1.2	4	1	5	.5	6											
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg	Yes	Υ	1	1.2	4	1	5	.866	6	5										
28	**Seismic Load**																				
29	1.2D+ELv+ELh	Yes	Υ	1	1.2	7	1	8	1												
30	*ASD																				
31	D		Y	1	1																
32	D+(0.6WLX) - 0 Deg		Υ	1	1	2	.6														
33	D+(0.6WLX+0.6WLZ) - 30 Deg		Y	1	1	2	.52	3	.3												
34	D+(0.6WLX+0.6WLZ) - 60 Deg		Y	1	1	2	.3	3	.52												
35	D+(0.6WLZ) - 90 Deg		Y	1	1	2		3	.6												
36	D+(0.6WLX+0.6WLZ) - 120 Deg		Y	1	1	2	3	3	.52												
37	D+(0.6WLX+0.6WLZ) - 150 Deg		Y	1	1	2	52	3	3												
38	D+(0.6WLX+0.6WLZ) - 180 Deg		Υ	1	1	2	6	3													
39	D+(0.6WLX+0.6WLZ) - 210 Deg		Υ	1	1	2	52	3	3												
40	D+(0.6WLX+0.6WLZ) - 240 Deg		Υ	1	1	2	3	3	52												
41	D+(0.6WLX+0.6WLZ) - 270 Deg		Y	1	1	2		3	6												
42	D+(0.6WLX+0.6WLZ) - 300 Deg		Υ	1	1	2	.3	3	52												
43	D+(0.6WLX+0.6WLZ) - 330 Deg		Y	1	1	2	.52	3	3												
44	**Wind Load with Ice**																				
45	D+0.7Di+0.6(WLXi+WLZi) - 0 Deg		Υ	1	1	4	.7	5	.6	6											
46	D+0.7Di+0.6(WLXi+WLZi) - 30 Deg		Υ	1	1	4	.7	5	.52	6	.3										
47	D+0.7Di+0.6(WLXi+WLZi) - 60 Deg		Υ	1	1	4	.7	5	.3	6	.52										
48	D+0.7Di+0.6(WLXi+WLZi) - 90 Deg		Y	1	1	4	.7	5		6	.6										
49	D+0.7Di+0.6(WLXi+WLZi) - 120 Deg		Y	1	1	4	.7	5	3	6	.52										
50	D+0.7Di+0.6(WLXi+WLZi) - 150 Deg		Y	1	1	4	.7	5	52		.3										
51	D+0.7Di+0.6(WLXi+WLZi) - 180 Deg		Υ	1	1	4	.7	5	6	6											
52	D+0.7Di+0.6(WLXi+WLZi) - 210 Deg		Υ	1	1	4	.7	5	52	6	3										
53	D+0.7Di+0.6(WLXi+WLZi) - 240 Deg		Υ	1	1	4	.7	5	3	6	52										
54	D+0.7Di+0.6(WLXi+WLZi) - 270 Deg		Y	1	1	4	.7	5		6	6										
55	D+0.7Di+0.6(WLXi+WLZi) - 300 Deg		Y	1	1	4	.7	5	.3	6	52										
56	D+0.7Di+0.6(WLXi+WLZi) - 330 Deg		Υ	1	1	4	.7	5	.52	6	3										
57	**Seismic Load**																				
58	D+0.7ELv+0.7ELh		Υ	1	1	7	.7	8	.7												

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	T/CONN	max	.244	9	.264	12	.371	6	Ō	29	.126	9	Ō	29
2		min	244	3	135	6	395	12	0	2	126	3	0	2
3	B/CONN'	max	.145	9	.274	6	.237	6	0	29	.078	9	0	29
4		min	145	3	124	12	212	12	0	2	078	3	0	2
5	Totals:	max	.39	9	.33	25	.608	6						
6		min	39	3	.14	6	608	12						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code C	Loc[ft] L	C Shear	Loc[ft]	Dir LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y	.phi*Mn z	Cb Eqn
1	M5	HSS2.875X0	.063	2.036 1	12 .023	1.948	8	28.256	51.516	3.699	3.699	1 H1-1b

Max member stresses do not exceed 6.3% of the 100% allowable capacity. Therefore, the proposed and existing members are adequate to support the proposed installation.



Load Combinations

	Description	Sol	P	B	.Fa.	BLC	; F	В	Fa	.B	F I	3F.	Bl	CF	BL(CF	BLC) F	F.		F
1	*LRFD																				
2	1.4D		Y	1	1.4																
3	1.2D+(WLX+WLZ) - 0 Deg		Y	1	1.2	2	1	3													
4	1.2D+(WLX+WLZ) - 30 Deg		Y	1	1.2	2															
5	1.2D+(WLX+WLZ) - 60 Deg		Y	1	1.2	2	.5	3	.866												
6	1.2D+(WLX+WLZ) - 90 Deg		Y	1	1.2	2		3	1												
7	1.2D+(WLX+WLZ) - 120 Deg		Y	1	1.2	2	5	3	.866												
8	1.2D+(WLX+WLZ) - 150 Deg		Y	1	1.2	2		3	.5												
9	1.2D+(WLX+WLZ) - 180 Deg		Y	1	1.2		-1	3													
10	1.2D+(WLX+WLZ) - 210 Deg		Y	1	1.2				5												
11	1.2D+(WLX+WLZ) - 240 Deg		Ý	1	1.2				8											\top	
12	1.2D+(WLX+WLZ) - 270 Deg		Y	1		2		3	-1												
13	1.2D+(WLX+WLZ) - 300 Deg		Ý	1		2	.5													-	
14	1.2D+(WLX+WLZ) - 330 Deg		Ý	1		2			5												
15	**Wind Load with Ice**				1.2				.0											T	
16	1.2D+1.0Di+1.0(WLXi+WLZi) - 0 Deg		Y	1	1.2	4	1	5	1	6											
17	1.2D+1.0Di+1.0(WLXi+WLZi) - 30 Deg		Y	1			1		.866		.5									-	
18	1.2D+1.0Di+1.0(WLXi+WLZi) - 60 Deg		Y	1		4	1	5	.000		.8										
19	1.2D+1.0Di+1.0(WLXi+WLZi) - 90 Deg		Y	1	1.2		1	5	.5	6	1									-	
20	1.2D+1.0Di+1.0(WLXi+WLZi) - 120 Deg		Y	1	1.2		1	5	5		.8									+	
20	1.2D+1.0Di+1.0(WLXi+WLZi) - 150 Deg		Y	1	1.2		1		8		.5									-	
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg		Y	1	1.2		1	5	0		.ɔ									+-	-
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg		Y	_	1.2		1				5	-								+-	
	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg		Y	1			1		5											+	
24	1.2D+1.0Di+1.0(WLXi+WLZi) - 240 Deg		Y	1	1.2			5	ɔ											-	
25	1.2D+1.0Di+1.0(WLXi+WLZi) - 270 Deg		Y	1	1.2		1	5	-	6			_	_						+	-
26			_	1	1.2		1	5	.5											+-	
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg		Υ	1	1.2	4	1	5	.866	6	5	_	_	_	_					+-	_
28	**Seismic Load**		V		1.0	7		_								-				+-	
29	1.2D+ELv+ELh		Υ	1	1.2	1	1	8	1				_							_	_
30	*ASD		× (-																+	
31	D	Yes		1	1	-									_	_				_	_
32		Yes		1	1	2	.6													+	
33		Yes		1	1	2		3												_	
34		Yes		1	1	2	.3	3	.52											+-	
35		Yes		1	1	2	-	3	.6				_		_	_			<u> </u>	_	
36		Yes		1	1	2		3											\square	_	
37	D+(0.6WLX+0.6WLZ) - 150 Deg			1	1		52		3						_				\square		
38		Yes		1	1	2	6												\square	+-	
39		Yes		1	1	2	52	3	3						_				\square	\perp	
40		Yes		1	1	2	3		52												
41		Yes		1	1	2		3	6												
42	D+(0.6WLX+0.6WLZ) - 300 Deg			1	1	2	.3		52												
43		Yes	Υ	1	1	2	.52	3	3												
44	**Wind Load with Ice**																				
	D+0.7Di+0.6(WLXi+WLZi) - 0 Deg			1	1	4	.7	5	.6												
	D+0.7Di+0.6(WLXi+WLZi) - 30 Deg			1	1	4	.7	5	.52	6	.3										
47	D+0.7Di+0.6(WLXi+WLZi) - 60 Deg	Yes	Υ	1	1	4	.7	5	.3	6	.52										
	D+0.7Di+0.6(WLXi+WLZi) - 90 Deg			1	1	4	.7	5		6	.6										
49	D+0.7Di+0.6(WLXi+WLZi) - 120 Deg	Yes		1	1	4	.7	5	3		.52										
50	D+0.7Di+0.6(WLXi+WLZi) - 150 Deg	Yes		1	1	4	.7		52		.3										
51	D+0.7Di+0.6(WLXi+WLZi) - 180 Deg	Yes		1	1	4	.7	5	6												
52		Yes		1	1	4	.7		52		- 3										
53	D+0.7Di+0.6(WLXi+WLZi) - 240 Deg	Yes		1	1	4	.7	5			52									T	
54		Yes		1	1	4	.7	5		6	6										
						4	.7	5	.3		52									T	
	D+0.7Di+0.6(WLXi+WLZi) - 300 Dea	Yes	Y			4															1
55 56		Yes Yes		1	1	4	.7	5			3										



Load Combinations (Continued)

_		Description	Sol	P	B	Fa	aB	LC	F	B	Fa	.B	F	В	F	BLC	F	BLC	F	BLC	F	 F	F.	<u></u>
	57	**Seismic Load**																						
	58	D+0.7ELv+0.7ELh	Yes	Y	1	·	1	7	.7	8	.7													

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	T/CONN	max	.146	38	.173	41	.22	35	Ő	58	.075	38	Ő	58
2		min	146	32	066	35	24	41	0	31	075	32	0	31
3	B/CONN'	max	.087	38	.182	35/	.145	35	0	58	.047	38	0	58
4		min	087	32	057	41	125	41	0	31	047	32	0	31
5	Totals:	max	.234	38	.249	55	.365	35						
6		min	234	32	.116	35	365	41						
									1.4		1.71			

Reactions used to check the connections

Envelope Joint Displacements

	Joint		X [in]	LC	Y [in]	LC	Z [in]	LC	X Rotation	LC	Y Rotation	LC	Z Rotation [. LC
1	T/PIPE	max	.002	38	Ō	35	.012	41	4.975e-04	41	4.294e-05	32	6.618e-05	32
2		min	002	32	002	41	006	35	-2.709e-04	35	-4.294e-05	38	-6.618e-05	38
3	N2	max	0	58	0	35	0	58	3.822e-04	41	0	58	1.395e-04	32
4		min	0	31	002	41	0	31	-1.871e-04	35	0	31	-1.395e-04	38
5	N3	max	0	58	0	35	0	58	4.295e-04	41	0	58	5.148e-04	38
6		min	0	31	002	41	0	31	-2.468e-04	35	0	31	-5.148e-04	32
7	B/PIPE	max	.006	38	0	35	.003	35	4.248e-04	41	0	58	5.101e-04	38
8		min	006	32	002	41	005	41	-2.421e-04	35	0	31	-5.101e-04	32
9	T/CONN	max	0	58	0	58	0	58	3.822e-04	41	0	58	1.395e-04	32
10		min	0	31	0	31	0	31	-1.871e-04	35	0	31	-1.395e-04	38
11	B/CONN'	max	0	58	0	58	0	58	4.295e-04	41	0	58	5.148e-04	38
12		min	0	31	0	31	0	31	-2.468e-04	35	0	31	-5.148e-04	32
13	N7	max	.006	32	0	35	.005	41	2.43e-04	41	8.625e-05	32	3.335e-04	38
14		min	006	38	002	41	004	35	-2.019e-04	35	-8.625e-05	38	-3.335e-04	32
15	N8	max	0	38	0	35	.002	41	4.793e-04	41	4.294e-05	32	8.43e-05	32
16		min	0	32	002	41	001	35	-2.528e-04	35	-4.294e-05	38	-8.43e-05	38
17	MX10-2	max	.006	32	.002	35	.005	41	2.43e-04	41	8.625e-05	32	3.335e-04	38
18		min	006	38	002	41	004	35	-2.019e-04	35	-8.625e-05	38	-3.335e-04	32
19	MX10-1	max	0	38	.001	35	.002	41	4.793e-04	41	4.294e-05	32	8.43e-05	32
20		min	0	32	003	41	001	35	-2.528e-04	35	-4.294e-05	38	-8.43e-05	38

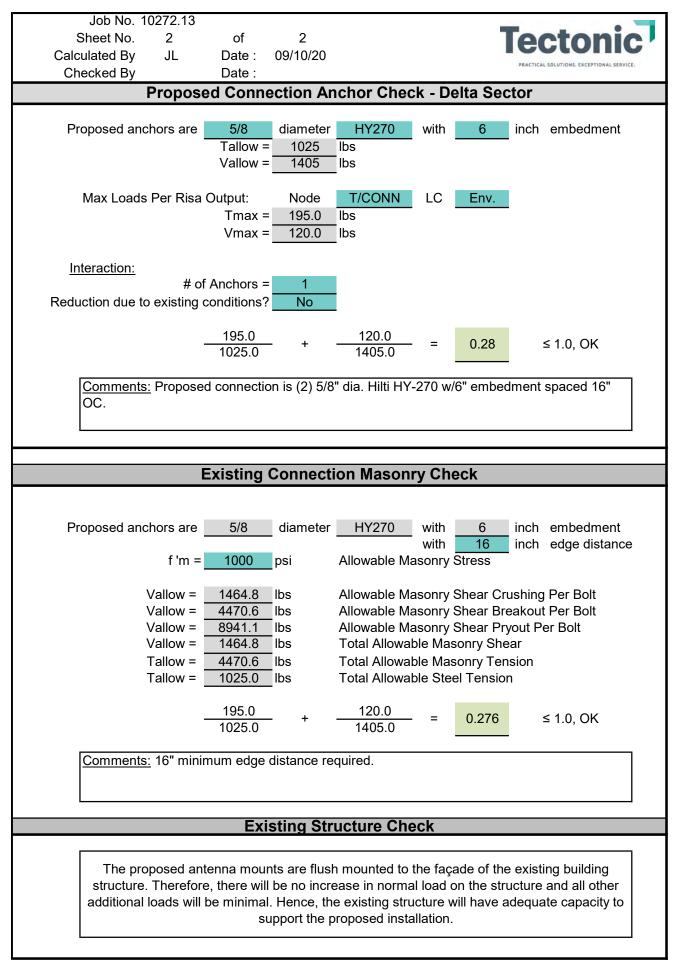
Max Deflection = 0.012" < 1.0" OK

September 8, 2020

APPENDIX D – Sectors A & D

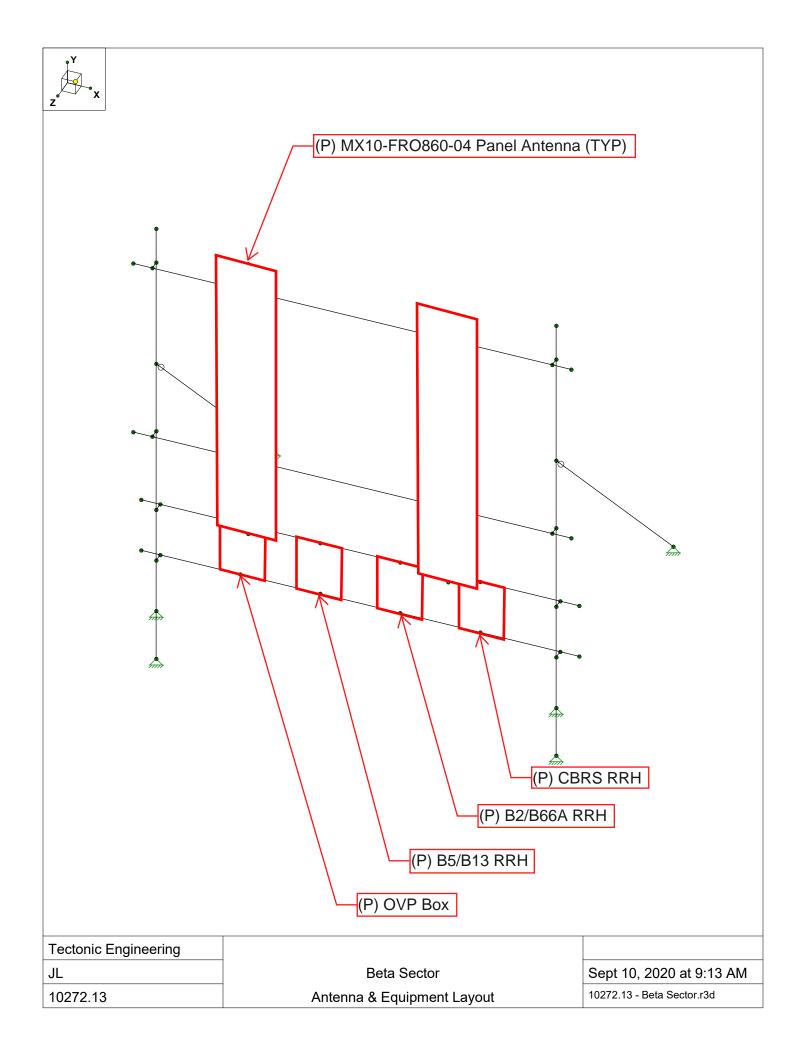
ADDITIONAL CALCULATIONS

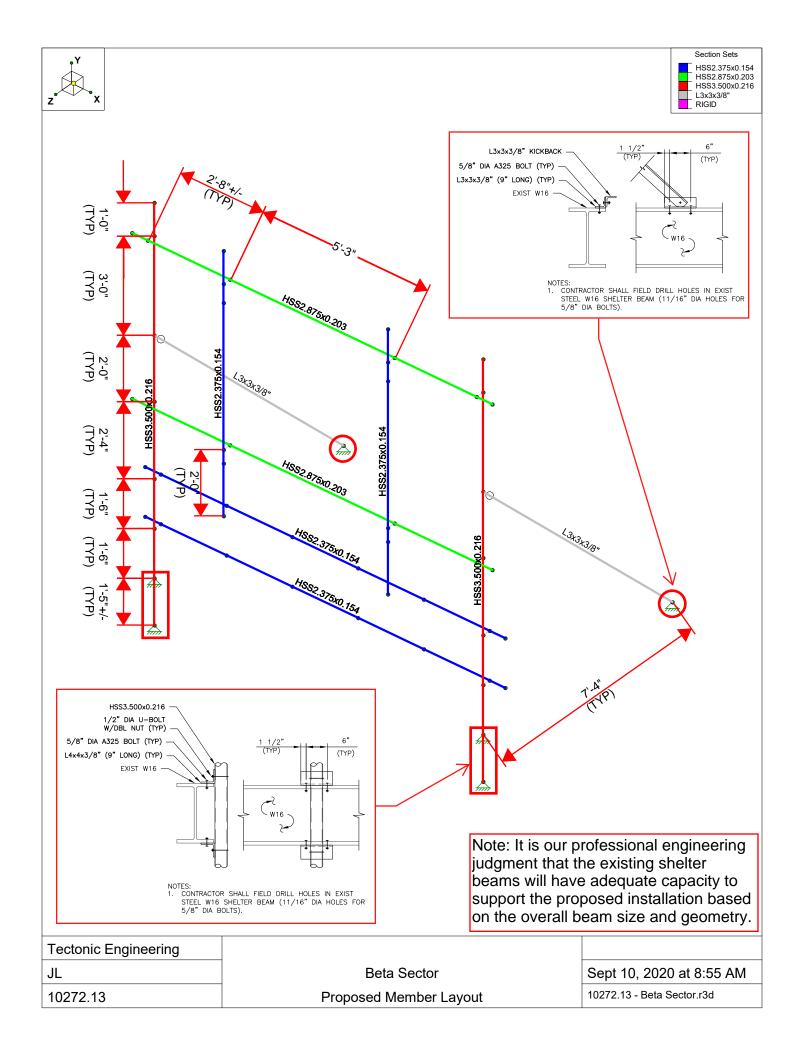
Job No. 10272.1											
Sheet No. 1	of	2			le	ctonic ¹					
Calculated By JL Checked By	Date :	09/10/20			PRACTICA	L SOLUTIONS. EXCEPTIONAL SERVICE.					
	Date :	ction An	chor Check	Alpha	Sactor						
	ing conne			- Alpha	Sector						
Existing anchors a	re <u>1/2</u> Tallow = Vallow =		HY20 Ibs Ibs	with	6 inch	embedment					
Max Loads Per Ri	sa Output: Tmax = Vmax =		T/CONN lbs lbs	LC E	nv.						
Interaction: # Reduction due to existir	f of Anchors = ng conditions		ł								
	<u>195.0</u> 496.7	- +	<u> 120.0</u> 620.0	= 0.	59	≤ 1.0, OK					
Comments: Existin embedment space	-		• • •		ti HY-20 w/	6"					
Existing Connection Masonry Check											
Existing anchors an f 'm Vallow Vallow Vallow Vallow Tallow Tallow	$= \frac{1000}{1310.2}$ $= \frac{4470.6}{8941.1}$ $= \frac{1310.2}{1310.2}$ $= 4470.6$	diameter psi lbs lbs lbs lbs lbs lbs	HY20 Allowable Ma Allowable Ma Allowable Ma Total Allowab Total Allowab Total Allowab Total Allowab <u>120.0</u> 620.0	with 1 asonry Strest asonry Sheat asonry Sheat ole Masonry ole Masonry ole Steel Te	inch inch iss ar Crushing ar Breakout ar Pryout P / Shear / Tension ension	t Per Bolt					
Comments: None											
	EX	isting Str	ucture Che	CK							
The existing a structure. There additional loads v	fore, there wil vill be minima	ll be no incr I. Hence, th	ease in norma	l load on the cture will ha	e structure	and all other					

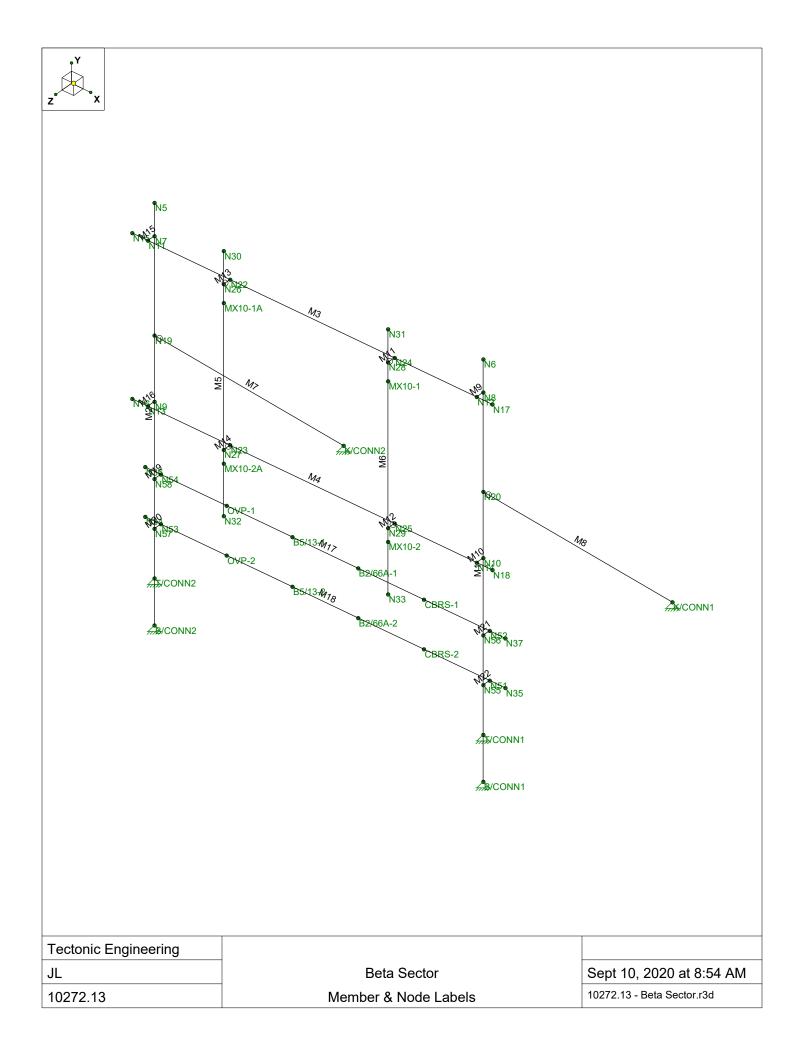


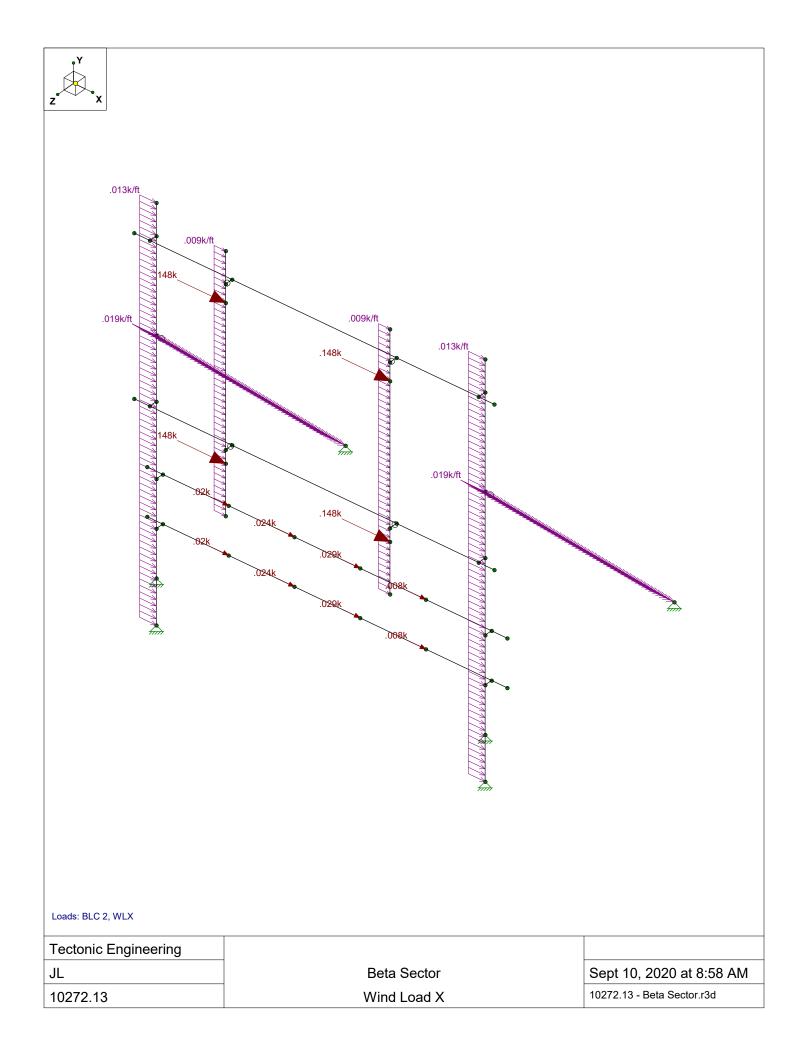
APPENDIX E – Sector B

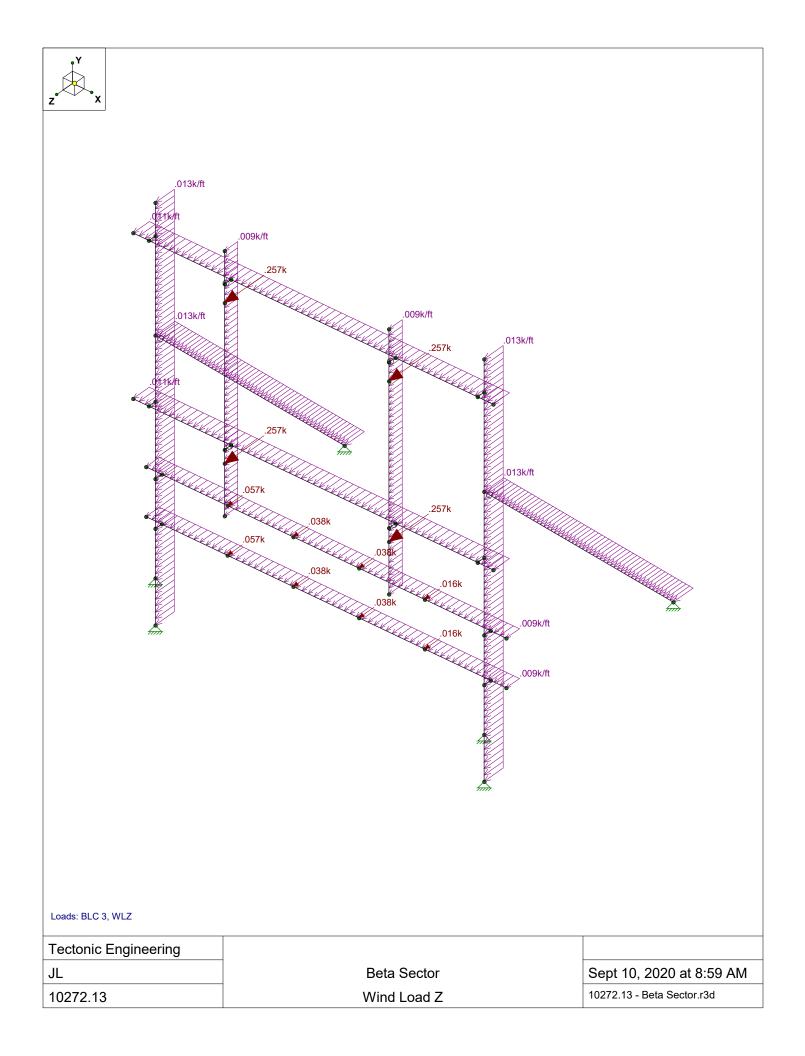
WIRE FRAME AND RENDERED MODELS

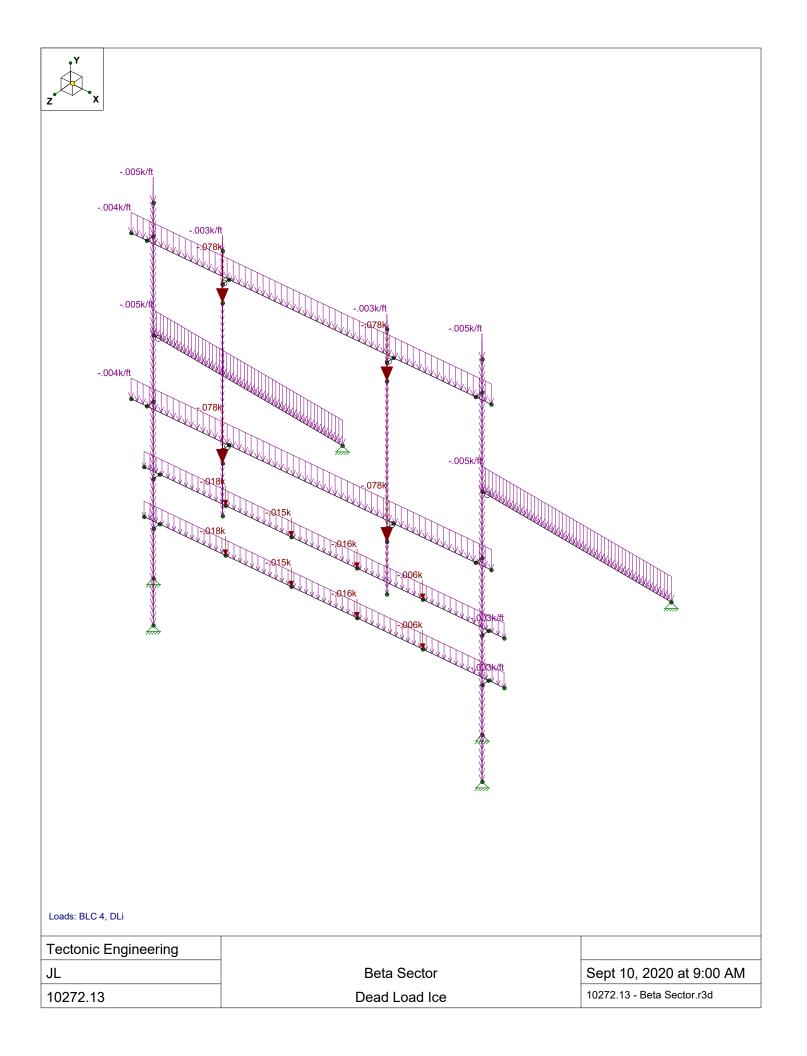


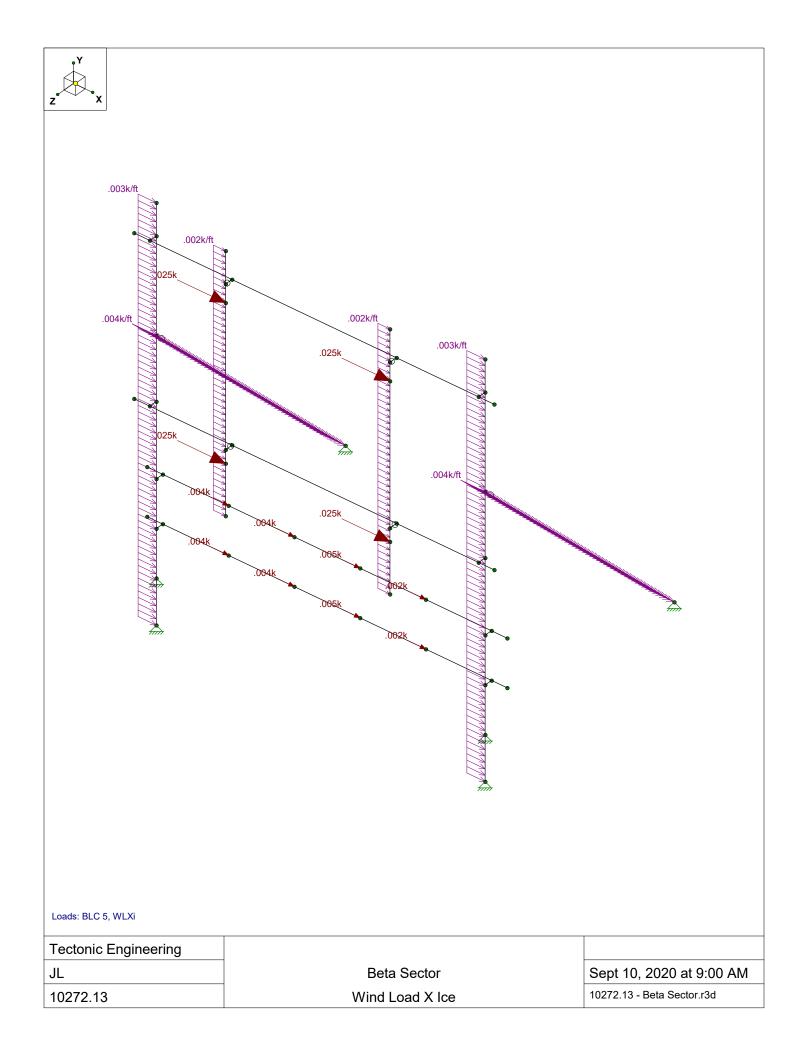


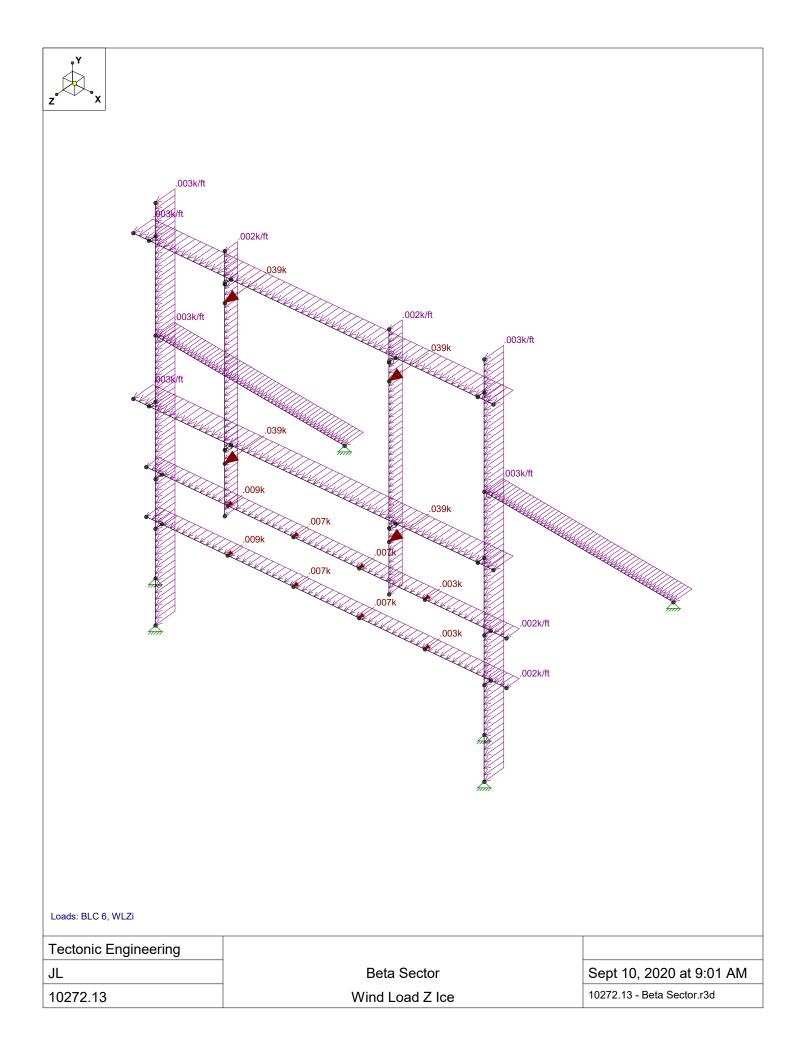


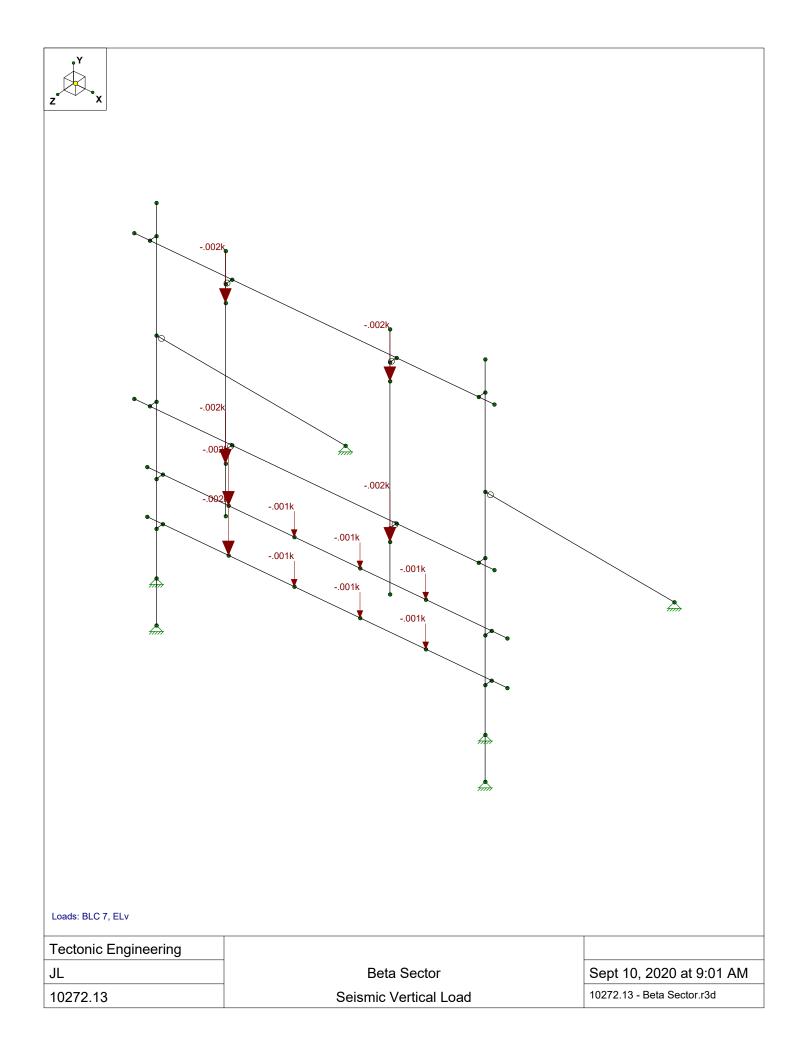


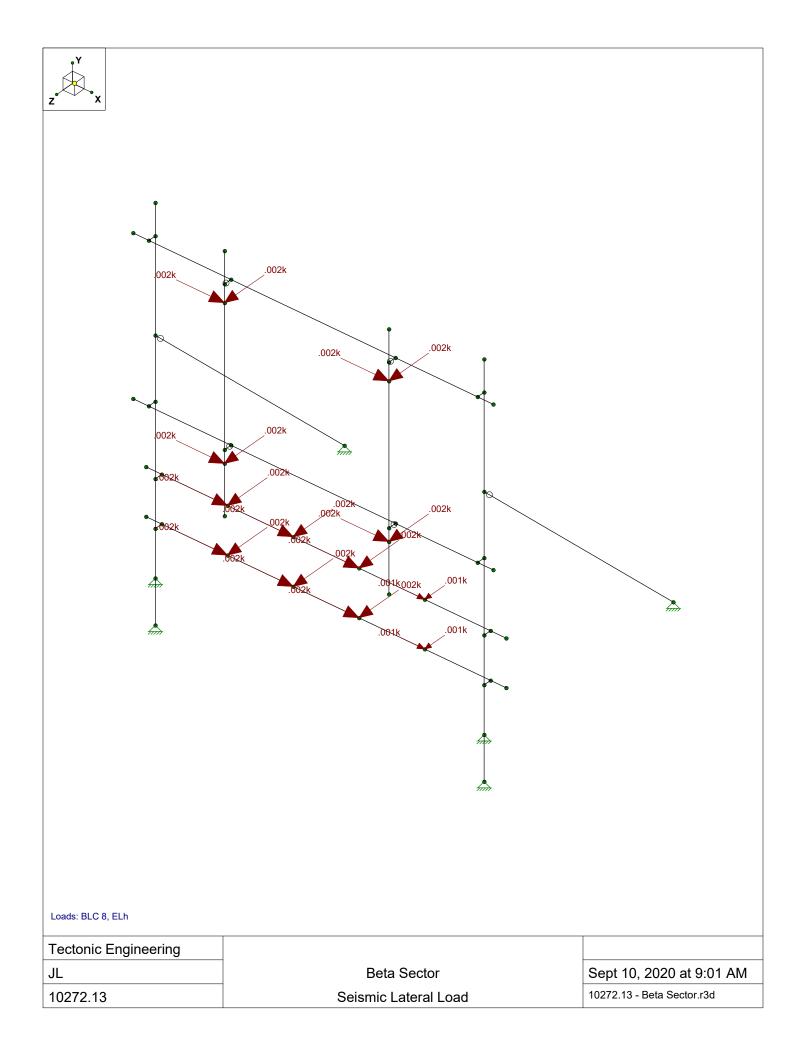






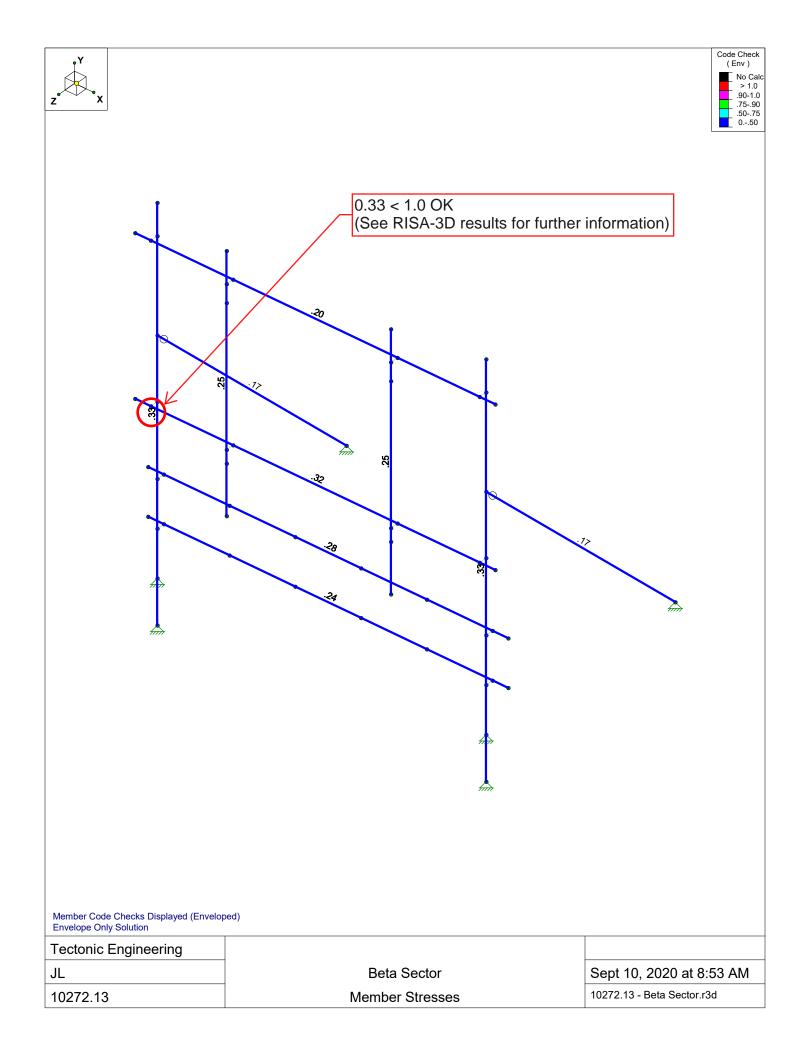






APPENDIX F – Sector B

SOFTWARE ANALYSIS OUTPUT





Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr. B	29000	11154	.3	.65	.49	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design Rules	A [in2]	lyy [in4]	Izz [in4]	J [in4]
1	HSS2.375x0.154	HSS2.375X0.154	Beam	Pipe	A53 Gr. B	Typical	1	.627	.627	1.25
2	HSS2.875x0.203	HSS2.875X0.203	Beam	Pipe	A53 Gr. B	Typical	1.59	1.45	1.45	2.89
3	HSS3.500x0.216	HSS3.500X0.216	Beam	Pipe	A53 Gr. B	Typical	2.08	2.84	2.84	5.69
4	L3x3x3/8"	L3X3X6	Beam	Single Angle	A36 Gr.36	Typical	2.11	1.75	1.75	.101

Hot Rolled Steel Design Parameters

	Label	Shape	Length[ft]	Lbyy[ft]	Lbzz[ft]	Lcomp top[ft]	Lcomp bot[ft]	L-torqu	Куу	Kzz	Cb	Function
1	M1	HSS3.500x	12.75			Lbyy						Lateral
2	M2	HSS3.500x	12.75			Lbyy						Lateral
3	M3	HSS2.875x	11.5			Lbyy						Lateral
4	M4	HSS2.875x	11.5			Lbyy						Lateral
5	M5	HSS2.375x	8			Lbyy						Lateral
6	M6	HSS2.375x	8			Lbyy						Lateral
7	M7	L3x3x3/8"	10.37			Lbyy						Lateral
8	M8	L3x3x3/8"	10.37			Lbyy						Lateral
9	M17	HSS2.375x	11.5			Lbyy						Lateral
10	M18	HSS2.375x	11.5			Lbyy						Lateral

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	.Surface(Plate/Wall)
1	DL	DĽ	-	-1.05		12				, , , , , , , , , , , , , , , , , , ,
2	WLX	WLX				12		8		
3	WLZ	WLZ				12		10		
4	DLi	SL				12		10		
5	WLXi	OL1				12		8		
6	WLZi	OL2				12		10		
7	ELv	ELY		057		12				
8	ELh	EL	23		23	24				

Load Combinations

	Description	Sol	P	B	3F	aI	BLC	F	В	Fa	.B	F	В	F	BLC	F	BLC	F	BLC	F	F	F	F	:
1	*LRFD																							
2	1.4D	Yes	Υ		1 1	1.4																		
3	1.2D+(WLX+WLZ) - 0 Deg	Yes	Υ	•	1 1	1.2	2	1	3															
4	1.2D+(WLX+WLZ) - 30 Deg	Yes	Υ	•	1 1	1.2	2	8	3	.5														
5	1.2D+(WLX+WLZ) - 60 Deg	Yes	Υ	•	1 1	1.2	2	.5	3	.866														
6	1.2D+(WLX+WLZ) - 90 Deg	Yes	Υ	•	1 1	1.2	2		3	1														
7	1.2D+(WLX+WLZ) - 120 Deg	Yes	Υ	•	1 1	1.2	2	5	3	.866														
8	1.2D+(WLX+WLZ) - 150 Deg	Yes	Υ	•	1 1	1.2	2		3	.5														
9	1.2D+(WLX+WLZ) - 180 Deg	Yes	Υ	•	1 1	1.2	2	-1	3															
10	1.2D+(WLX+WLZ) - 210 Deg	Yes	Y		1 1	1.2	2		3	5														



Load Combinations (Continued)

	Description	Sol	P	B	F	Fa	BLC	F	В	Fa	B	F E	3F.	BL	CF	BLC	F	BLC	F	 F	. F
11	1.2D+(WLX+WLZ) - 240 Deg	Yes	Υ	1	1 ·	1.2	2	5	3	8											
12	1.2D+(WLX+WLZ) - 270 Deg	Yes	Υ	1	1	1.2	2		3	-1											
13		Yes		1		1.2		.5	3	8											
14		Yes				1.2		.8													
15	**Wind Load with Ice**																				
16		Yes	Y	-	1	1.2	4	1	5	1	6										
17	· · · · · ·	Yes				1.2		1		.866		.5									
18		Yes				1.2	4	1	5	.5		.8									
19		Yes				1.2	4	1	5		6	1									
20		Yes		1		1.2	4	1	5	5		8									
21		Yes				1.2	4	1		8		.5									
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg	Yes	Ý			1.2	4	1	5	-1	6										
23		Yes				1.2	4	1	5	8		5									
24	1.2D+1.0Di+1.0(WLXi+WLZi) - 240 Deg			1		1.2		1	5	5	-										
25		Yes		1		1.2	4	1	5		6	-1				1					
26	1.2D+1.0Di+1.0(WLXi+WLZi) - 300 Deg	Yes	Ý			1.2	4	1	5	.5											
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg	Yes	Ý			1.2	4	1		.866						1					
28	**Seismic Load**				-				Ŭ		<u> </u>										
29	1.2D+ELv+ELh	Yes	Y	1	1	1.2	7	1	8	1											
30	*ASD	100					·		Ŭ												
31	D		Y	1	1	1										1					
32	D+(0.6WLX) - 0 Deg		Ý	1	-	1	2	.6													
33	D+(0.6WLX+0.6WLZ) - 30 Deg		Ý		i	1	2		3	.3											
34	D+(0.6WLX+0.6WLZ) - 60 Deg		Y	1	-	1	2		3	.52											
35	D+(0.6WLZ) - 90 Deg		Ý	1		1	2		3	.6						1					
36	D+(0.6WLX+0.6WLZ) - 120 Deg		Y	1		1	2	- 3	3												
37	D+(0.6WLX+0.6WLZ) - 150 Deg		Ý	1	_	1	2	52		3											
38	D+(0.6WLX+0.6WLZ) - 180 Deg		Y		1	1	2	6		.0											
39	D+(0.6WLX+0.6WLZ) - 210 Deg		Ý	1	_	1	2	52		3	_									_	
40	D+(0.6WLX+0.6WLZ) - 240 Deg		Y	1		1	2	- 3		52											
41	D+(0.6WLX+0.6WLZ) - 270 Deg		Ý	1	_	1	2		3	6											
42	D+(0.6WLX+0.6WLZ) - 300 Deg		Ý	1	_	1	2	3		52											
43	D+(0.6WLX+0.6WLZ) - 330 Deg		Ý		1	1	2		3												
44	**Wind Load with Ice**						~	-	Ŭ	.0											
45	D+0.7Di+0.6(WLXi+WLZi) - 0 Deg		Υ	1	1	1	4	.7	5	.6	6					1					
	D+0.7Di+0.6(WLXi+WLZi) - 30 Deg		Ý	1		1	4		5			.3									
	D+0.7Di+0.6(WLXi+WLZi) - 60 Deg		Ý	1		1	4	.7	5	.3	6	.52				1					
	D+0.7Di+0.6(WLXi+WLZi) - 90 Deg		Y		1	1	4	.7	5		6	.6									
49	D+0.7Di+0.6(WLXi+WLZi) - 120 Deg		Ý	1	-	1	4	.7	5	3	6	.52									
50	D+0.7Di+0.6(WLXi+WLZi) - 150 Deg		Ý		1	1	4	.7		52		.3									
51	D+0.7Di+0.6(WLXi+WLZi) - 180 Deg		Ý		1	1	4	.7		6											
52	D+0.7Di+0.6(WLXi+WLZi) - 210 Deg		Y	1	_	1	4	.7	5	52	6	3									
53	D+0.7Di+0.6(WLXi+WLZi) - 240 Deg		Ý		i	1	4	.7	5	3											
54	D+0.7Di+0.6(WLXi+WLZi) - 270 Deg		Y	1	_	1	4	.7	5			6									
55	D+0.7Di+0.6(WLXi+WLZi) - 300 Deg		Ý	1		1	4	.7	5	.3	6	52									
56	D+0.7Di+0.6(WLXi+WLZi) - 330 Deg		Y	-	_	1	4	.7	5	.52		3									
57	**Seismic Load**								•		<u> </u>										
58	D+0.7ELv+0.7ELh		Y	1	1	1	7	.7	8	.7											
00							1		0	.1						-			-		

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	B/CONN1	max	1.288	4	.01	27	.124	6	Ō	29	Ō	29	Ō	29
2		min	-1.239	10	.006	3	17	12	0	2	0	2	0	2
3	T/CONN1	max	2.226	10	1.563	5	.41	12	0	29	0	29	0	29
4		min	-2.399	4	597	11	342	6	0	2	0	2	0	2



Envelope Joint Reactions (Continued)

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
5	B/CONN2	max	1.249	14	.01	27	.16	6	Ō	29	Ō	29	Ō	29
6		min	-1.277	8	.006	3	206	12	0	2	0	2	0	2
7	T/CONN2	max	2.389	8	1.588	7	.489	12	0	29	0	29	0	29
8		min	-2.237	14	581	13	423	6	0	2	0	2	0	2
9	K/CONN2	max	.099	9	.989	12	1.011	12	0	29	0	29	0	29
10		min	099	3	915	6	-1.032	6	0	2	0	2	0	2
11	K/CONN1	max	.099	9	.983	12	1.005	12	0	29	0	29	0	29
12		min	099	3	91	6	-1.027	6	0	2	0	2	0	2
13	Totals:	max	1.624	9	1.935	18	2.54	12						
14		min	-1.624	3	1.073	11	-2.54	6						

Envelope AISC 15th(360-16): LRFD Steel Code Checks

	Member	Shape	Code C.	Loc[ft]	LC	Shear	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y	phi*Mn z	. <u>Cb Eqn</u>
1	M1	HSS3.500X0	.328	11.289	4	.084	8.234		13	27.329	67.392	5.913	5.913	2 H1-1b
2	M2	HSS3.500X0	.326	11.289	8	.079	8.234		11	27.329	67.392	5.913	5.913	2 H1-1b
3	M3	HSS2.875X0	.203	5.75	6	.022	10.901		6	17.201	51.516	3.699	3.699	2 H1-1b
4	M4	HSS2.875X0	.323	10.901	14	.043	10.901		13	17.201	51.516	3.699	3.699	3 H1-1b
5	M5	HSS2.375X0	.254	6	9	.028	6		6	14.945	32.4	1.925	1.925	1 H1-1b
6	M6	HSS2.375X0	.254	6	3	.028	6		6	14.945	32.4	1.925	1.925	1 H1-1b
7	M7	L3X3X6	.174	5.509	13	.005	10.37	z	9	10.39	68.364	2.307	4.373	1 H2-1
8	M8	L3X3X6	.173	5.509	11	.005	10.37	y	9	10.39	68.364	2.307	4.373	1 H2-1
9	M17	HSS2.375X0	.279	10.901	9	.017	10.901		7	7.438	32.4	1.925	1.925	2 H1-1b
10	M18	HSS2.375X0	.238	10.901	8	.017	10.901		11	7.438	32.4	1.925	1.925	2 H1-1b

Max member stresses do not exceed 32.8% of the 100% allowable capacity. Therefore, the proposed members are adequate to support the proposed installation.



Load Combinations

	Description	Sol	P	B	.Fa	BL	C F	В	Fa	.B	F	В	F	BLC	F	BLCF	= E	BLC	F	I	F	F	F
1	*LRFD																						
2	1.4D		Υ	1	1.4	4																	
3	1.2D+(WLX+WLZ) - 0 Deg		Ý	1		2 2	1	3												T		T	_
4	1.2D+(WLX+WLZ) - 30 Deg		Ý	1			.8		.5														
5	1.2D+(WLX+WLZ) - 60 Deg		Y	1	1.				.866														-
6	1.2D+(WLX+WLZ) - 90 Deg		Y	1	1.			3	1											$ \rightarrow$			_
7	1.2D+(WLX+WLZ) - 90 Deg		Y	1	1.			3												r t	-	-	_
			-	_																\vdash	_	+	_
8	1.2D+(WLX+WLZ) - 150 Deg		Y	1	1.				.5											-+	_	-	
9	1.2D+(WLX+WLZ) - 180 Deg		Y	1	1.				-								_			\vdash	_	_	_
10	1.2D+(WLX+WLZ) - 210 Deg		Υ	1	1.															\vdash		_	
11	1.2D+(WLX+WLZ) - 240 Deg		Υ	1	1.:				8	-										⊢		_	
12	1.2D+(WLX+WLZ) - 270 Deg		Y	1		2 2		3	-1														
13	1.2D+(WLX+WLZ) - 300 Deg		Υ	1		2 2			8														
14	1.2D+(WLX+WLZ) - 330 Deg		Y	1	1.	2 2	.8	. 3	5														
15	**Wind Load with Ice**																						
16	1.2D+1.0Di+1.0(WLXi+WLZi) - 0 Deg		Υ	1	1.	2 4	1	5	1	6													
17	1.2D+1.0Di+1.0(WLXi+WLZi) - 30 Deg		Υ	1				5	.866		.5												
18	1.2D+1.0Di+1.0(WLXi+WLZi) - 60 Deg		Y	1	1.			5	.5		.8												
19	1.2D+1.0Di+1.0(WLXi+WLZi) - 90 Deg		Ý	1	1.			5		6	1												_
20	1.2D+1.0Di+1.0(WLXi+WLZi) - 120 Deg		Y	1	1.			5	5		.8												
21	1.2D+1.0Di+1.0(WLXi+WLZi) - 150 Deg		Y	1	1.				8												-		_
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg		Y	1	1.			5	-1	6	.5									\rightarrow	-		
23	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg		Y	1	1.			5	8		5									H			_
	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg									0							_			$ \rightarrow$		_	_
24			Y	1	1.			5	5											\vdash		_	_
25	1.2D+1.0Di+1.0(WLXi+WLZi) - 270 Deg		Y	1				5	_	6										⊢	_	_	_
26	1.2D+1.0Di+1.0(WLXi+WLZi) - 300 Deg		Υ	1	1.			5												\vdash			
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg		Υ	1	1.	2 4	1	5	.866	6	5									\square	\rightarrow		_
28	**Seismic Load**																						
29	1.2D+ELv+ELh		Υ	1	1.	2 7	1	8	1														
30	*ASD																						
31	D	Yes	×	1	1																		
32		Yes		1	1	2	.6																
33		Yes		1	1			3	.3														
34		Yes		1				3	.52														
35		Yes		1				3	.6														_
36		Yes		1	1		3		.52											\rightarrow			
37	D+(0.6WLX+0.6WLZ) - 150 Deg			1	1			2 3	3											-t		-	_
38		Yes		1	1				5											$ \rightarrow$	_		_
					-				0											H		_	
39	D+(0.6WLX+0.6WLZ) - 210 Deg			1	1		52	2 3	3											+		_	_
40	· · · · · · · · · · · · · · · · · · ·	Yes		1		_	3		52											-		_	_
41	D+(0.6WLX+0.6WLZ) - 270 Deg			1	1		-	3									_			⊢	_	_	_
42	D+(0.6WLX+0.6WLZ) - 300 Deg			1	1	2			52											\square			
43		Yes	Υ	1	1	2	.52	3	3														
44	**Wind Load with Ice**																						
	D+0.7Di+0.6(WLXi+WLZi) - 0 Deg			1	1	4	.7		.6	6													
	D+0.7Di+0.6(WLXi+WLZi) - 30 Deg			1	1	4	.7				.3												
	D+0.7Di+0.6(WLXi+WLZi) - 60 Deg			1	1	4	.7		.3		.52									T		T	
	D+0.7Di+0.6(WLXi+WLZi) - 90 Deg			1	1	4	.7	5		6	.6												
49	· · · · · · · · · · · · · · · · · · ·	Yes		1	1		.7		3		.52									T		T	
50	<u> </u>	Yes		1	1	4	.7		52		.3											\pm	
51	(, , , , , , , , , , , , , , , , , , ,	Yes		1	1		.7				.0									\square		+	_
52		Yes		1	1	4				6	3									$ \rightarrow$	-		
	D+0.7Di+0.6(WLXi+WLZi) - 240 Deg				-															\square	-	+	
53		Yes		1	1	4	.7	5	3		52									$ \rightarrow$		+	_
	D+0.7Di+0.6(WLXi+WLZi) - 270 Deg	Yes	Y	1	1	4	.7			6	6									$ \rightarrow$		+	
54			1.1																			1	
54 55 56	D+0.7Di+0.6(WLXi+WLZi) - 300 Deg	Yes Yes		1	1	4	.7	5 5	.3		52 3										_		-



Load Combinations (Continued)

		Description	Sol	P	В	F	aE	BLC	F	В	Fa	.B	F	В	F	BLC	F	BLC	F	BLC	F	 F	F	:
5	57	**Seismic Load**																						
5	58	D+0.7ELv+0.7ELh	Yes	Υ	1	1	1	7	.7	8	.7													

Envelope Joint Reactions

	Joint		X [k]	LC	Y [k]	LC	Z [k]	LC	MX [k-ft]	LC	MY [k-ft]	LC	MZ [k-ft]	LC
1	B/CONN1	max	.778	33	.008	56	.069	35	Ō	58	Ō	58	Ō	58
2		min	738	37	.005	31	107	41	0	31	0	31	0	31
3	T/CONN1	max	1.316	39	1.051	34	.254	41	0	58	0	58	0	58
4		min	-1.46	33	246	40	197	35	0	31	0	31	0	31
5	B/CONN2	max	.747 /	43	.008	56	.09	35	0	58	0	58	0	58
6		min	706	38	.005	31	129	41	0	31	0	31	0	31
7	T/CONN2	max	1.347	36	1.071	36	.302	41	0	58	0	58	0	58
8		min	-1.325	43	231	42	246	35	0	31	0	31	0	31
9	K/CONN2	max	.059	38	.602	41	.604	41	0	58	0	58	0	58
10		min	059	32	54	35	621	35	0	31	0	31	0	31
11	K/CONN1	max	.059	38	.598	41	.601	41	0	58	0	58	0	58
12		min	059	32	538	35	619	35	0	31	0	31	0	31
13	Totals:	max	.974	38	1.497	47	1.524	41						
14		min	974	32	.894	40	-1.524	35						

Reactions used to check connections

Envelope Joint Displacements

	Joint		X [in]	LC	Y [in]	LC	Z [in]	LC X Rotation LC Y Rotation LC Z Rotation [LC
1	B/CONN2	max	0	58	0	58	0	58 8.577e-05 41 5.221e-03 41 4.874e-04 43
2		min	0	31	0	31	0	31 -6.033e-05 35 -5.529e-03 35 -4.612e-04 38
3	B/CONN1	max	0	58	0	58	0	58 7.139e-05 41 5.282e-03 35 5.073e-04 33
4		min	0	31	0	31	0	31 -4.647e-05 35 -4.981e-03 41 -4.816e-04 37
5	T/CONN2	max	0	58	0	58	0	58 1.459e-04 35 5.221e-03 41 1.097e-03 38
6		min	0	31	0	31	0	31 -2.063e-04 41 -5.529e-03 35 -1.159e-03 43
7	T/CONN1	max	0	58	0	58	0	58 1.13e-04 35 5.282e-03 35 1.145e-03 39
8		min	0	31	0	31	0	31 -1.721e-04 41 -4.981e-03 41 -1.206e-03 33
9	N5	max	.447	32	0	42	.135	35 3.254e-03 35 6.683e-03 41 1.856e-03 38
10		min	435	38	002	36	108	41 -2.634e-03 41 -7.042e-03 35 -2.391e-03 32
11	N6	max	.439	32	0	40	.137	35 3.305e-03 35 6.981e-03 35 2.374e-03 38
12		min	442	38	002	34	111	41 -2.693e-03 41 -6.621e-03 41 -1.873e-03 32
13	N7	max	.418	32	0	42	.095	35 3.251e-03 35 6.683e-03 41 1.853e-03 38
14		min	412	38	002	36	077	41 -2.631e-03 41 -7.042e-03 35 -2.388e-03 32
15	N8	max	.417	32	0	40	.097	35 3.302e-03 35 6.981e-03 35 2.371e-03 38
16		min	414	38	002	34	079	41 -2.69e-03 41 -6.621e-03 41 -1.87e-03 32
17	N9	max	.235	32	0	42	.001	34 5.051e-04 40 6.157e-03 41 3.37e-03 39
18		min	232	38	001	36	007	40 -2.861e-04 34 -6.381e-03 35 -3.624e-03 32
19	N10	max	.235	32	0	40	0	36 4.601e-04 42 6.277e-03 35 3.592e-03 38
20		min	232	38	001	34	006	56 -2.466e-04 36 -6.055e-03 41 -3.402e-03 43
21	N11	max	.418	32	.008	41	.095	35 3.251e-03 35 6.683e-03 41 1.853e-03 38
22		min	413	38	011	35	077	41 -2.631e-03 41 -7.042e-03 35 -2.388e-03 32
23	N12	max	.418	32	.009	41	.097	35 3.302e-03 35 6.981e-03 35 2.371e-03 38
24		min	413	38	012	35	079	41 -2.69e-03 41 -6.621e-03 41 -1.87e-03 32
25	N13	max	.235	32	0	33	.001	34 5.051e-04 40 6.157e-03 41 3.37e-03 39
26		min	232	38	002	37	007	40 -2.861e-04 34 -6.381e-03 35 -3.624e-03 32
27	N14	max	.235	32	0	38	0	36 4.601e-04 42 6.277e-03 35 3.592e-03 38
28		min	232	38	002	56	006	56 -2.466e-04 36 -6.055e-03 41 -3.402e-03 43
29	N15	max	.418	32	.017	43	.053	35 3.251e-03 35 6.683e-03 41 1.853e-03 38
30		min	413	38	016	36	036	41 -2.631e-03 41 -7.041e-03 35 -2.387e-03 32
31	N16	max	.235	32	.022	32	.031	41 5.051e-04 40 6.156e-03 41 3.371e-03 39
32		min	232	38	022	37	038	35 -2.861e-04 34 -6.381e-03 35 -3.623e-03 32



Sept 10, 2020 9:07 AM Checked By:___

Envelope Joint Displacements (Continued)

33 N11 max A11 32 A11 33 A33 A33 <tha33< th=""> A33 A33</tha33<>					V [in]		7 [in]	LC V Potation LC V Potation LC 7 Potation []C
B4 mm -413 38 -017 33 -039 41 -269e-03 41 -662e-03 41 -662e-03 35 -277e-03 35 5272e-03 36 36 min -222 38 -022 43 -038 52 246e-04 36 605e-03 36 367e-03 41 -342e-03 38 37 N19 max N19 20 040 005 35 1166e-03 35 655e-03 35 317e-03 38 39 N20 max -015 39 -2265 35 252e-03 35 317e-03 35 147e-03 35 147e-03 35 147e-03 35 147e-04 39 14 255e-04 2 14 485r-04 35 147re04 39 14 485r-04 35 147re04 35 147re04 35 147re04 35 147re04 35 147re04 39 144 1485re-04	33	Joint N17	max	X [in]	Y [in]		Z [in]	LC X Rotation LC Y Rotation LC Z Rotation [LC
35 N18 max 232 38 0.02 43 0.038 63 64.9054-03 31.302-03 33.33 37 N19 max 318 32 0.22 43 0.03 43 2.466-04 36 6.8054-03 31.302-03 33.333 38 min -315 38 0.02 40 0.04 35 1.166-03 35 6.357-03 31.371-03 32 40 min -315 38 0.02 40 0.04 35 1.566-03 35 5.156-03 31.916-03 35 1.338-03 32 41 N22 max .413 32 0.15 39 .296 35 3.264-03 35 4.317-03 31.37 .288-03 40 42 min .233 32 0.15 33 .299 41 4.280-03 35 4.317-03 35 1.288-03 36 4.317-03 35 1.286-03 4.317-04 4.3 1.280-04 41 4.951-04 41 4.951-04 41 4.951-04 <th< td=""><td></td><td>1117</td><td></td><td></td><td></td><td></td><td></td><td></td></th<>		1117						
36 min -232 38 -022 43 -038 35 2-466-04 36 6-002-03 14 -402-03 13 33-33-0-03 38 38 min -315 38 -002 36 -003 34 1-7487-04 41 6-867-03 35 3217-03 32 39 N22 max -131 38 -002 34 -003 41 +747-04 41 6-266-03 41 3390-003 32 41 N22 max -141 38 -005 33 -268 41 2464-00 41 4355-04 42 44 min -233 38 -005 33 -199 41 2456-03 41 3517-043 41 4555-04 42 446 44 455 41 4717-03 51 438 -455 41 4276-03 41 4276-03 41 4276-03 31 416 4576-04 41		N18						
37 N19 max 318 32 0 42 005 35 1108-03 35 6.36 377-03 32 3377-03 32 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 33 3377-03 34 3378-03 35 1471-033 1471-033 1471-033 1471-033 1471-033		- NIO	-					
38 min -315 38 -002 36 -004 35 1186e-03 35 6.559e-03 35 319e-03 38 40 min -315 38 -002 34 -003 41 8.77e-04 41 6.25e-03 41 3.39e-03 32 41 N23 max 7.418 38 -055 33 -268 41 2.444 4.84e-03 51 43 2.97e-03 31 +395e-04 42 4.95e-04 34 4.95e-03 34 +395e-04 42 4.95e-03 41 +395e-04 43 +395e-04 43 +495e-03 51 41.82 2.28e-03 50 41 +395e-04 41 4.955e-04 41 4.956e-03 41 4.971e-03 51 1286e-03 50 1286e-03 50 <td></td> <td>N19</td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>		N19				-		
38 N20 max 319 32 0 40 mox 315 38 .002 4 .003 4 8.177e-04 33 6.281e-03 11 .3389e-03 32 41 N22 max .418 32 .015 35 .268 41 .444e-03 35 .1386e-03 41 .438e-03 35 .1488e-03 35 .1488e-03 35 .1488e-03 35 .1488e-03 35 .1488e-03 35 .1488e-03 45 .1488e-03 45 .1488e-03 49 .41 .205e-03 41 .490e-03 51 .1488e-03 40 .41 .207e-04 42 .490e-03 51 .1471e-03 35 .1471e-04 43 49 N26 max .41 32 .016 39 .297 35 .2471e-03 35 .1471e-04 39 .1488e-04 40 .276e-03 .2147e-03 .2147e-03 .2147e-04 .2147e-03 .2147e-03 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
		N20						
41 N22 max 413 38 0.055 33 -2.064 35 4.358-0.3 11 -3.917-0.4 35 7.218-0.4 41 -3.917-0.4 35 7.218-0.4 41 -3.917-0.4 35 7.218-0.4 41 4.946-0.3 51 1.286-0.3 41 -4.946-0.3 51 -1.286-0.4 41 4.946-0.3 55 1.286-0.4 42 4.946-0.3 35 1.286-0.4 42 4.946-0.3 35 1.286-0.4 42 4.946-0.3 35 1.286-0.4 42 4.946-0.3 35 1.276-0.4 40 4.7 1.286-0.3 43 4.926-0.4 42 4.948-0.3 51 1.471-0.4 37 43 3.50 1.271-0.4 40 2.76-0.3 32 1.287-0.4 40 2.76-0.3 32 1.438-0.4 43 4.308-0.4 42 4.948-0.3 35 1.471-0.4 38 50 1.37 4.942.0 35 1.287-0.20 35 1.267-0.20 35 1.267-0.20 35 1.267-0.20 35 1.267-0.20 35 1.471-0.38 1.267-0.20 35		1120			-			
42 min -413 38 -055 33 -268 41 -2649-03 41 -439-03 55 -138-03 44 min -233 38 -059 33 -199 41 -2205-04 34 481-03 55 1496-03 55 1496-03 55 1496-03 55 1288-03 50 45 Max 418 32 015 43 297 35 7.704e-04 42 4948-03 35 1471e-03 47 46 min -233 38 -056 38 -197 41 -1498-04 40 -27e-03 32 14286-03 46 4307e-04 41 437e-04 32 14869-03 50 14716-03 47 1396-04 42 1286e-03 32 14286e-03 36 14773-04 40 27e-03 32 14286e-03 36 14773-04 41 27e-03 32 14286e-03 36 14786e-04 42 <t< td=""><td></td><td>N22</td><td></td><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></t<>		N22						· · · · · · · · · · · · · · · · · · ·
43 max 236 32 018 39 197 35 7.919e-04 40.867e-03 41 4.957e-04 35 1.4985e-03 49 44 min .418 32 .015 43 .297 35 3.299e-03 35 4.497e-03 35 1.498e-03 35 1.498e-03 35 1.471e-04 41 3.957e-04 43 47 N25 max .233 38 .056 38 .197 41 1.988e-04 42 4.492e-03 35 1.471e-03 47 48 min		1122						
44 min -233 38 059 33 199 41 -2205-04 34 +.911-03 35 1.248e-03 50 46 min 413 38 054 36 269 41 -2675e-03 41 +402e-03 35 1.716e-04 43 47 N25 max .236 32 016 39 .296 35 7.704e-04 42 4.948e-03 35 1.471e-04 49 49 N26 max .431 32 .016 39 .296 35 1.227e-03 43 0.050-03 21 4.348e-03 50 50 max .236 32 .016 33 .197 35 1.247e-03 35 0.050-3 32 1.443e-03 44 -3.56e-03 38 1.288e-03 50 54 max .333 32 .016 43 .197 41 -9.426e-04 44 -3.158e-02 45		N23						
45 N24 max 418 32 0.15 43 2.297 35 3.289e-03 34 3.470-03 35 1.287e-03 41 4.670-03 41 4.670-03 41 4.670-03 41 4.670-03 41 4.670-03 41 4.670-03 41 4.670-03 41 4.670-03 41 5.077-04 49 49 N26 max A.11 32 0.16 39 .297 34 3.067-02 51 .397-04 49 35 1.277-03 32 1.268-04 40 .277-03 32 1.268-04 40 .277-03 32 1.268-03 36 2.476-03 35 3.067-02 51 .4358-04 42 53 N28 max .33 20 0.16 43 .297 41 .449-04 41 .318+003 50 73 51 2.166-03 36 2.1456-03 38 1.286+03 50 54 min .407 38 .056 38 .2826 1.471+003 47 1.4256-03 38		1120						
46 min 413 38 054 38 269 41 2675-03 41 -4020-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7710-03 35 1.7210-03 35 1.7210-03 35 1.7210-03 32 1.286-04 49 50 max .233 38 -0.56 39 .197 35 1.247e-03 35 0.507-02 51 .4986-04 42 52 max .333 20 .016 43 .297 35 1.247e-03 38 1.286e-03 32 1.4486-04 49 .2145e-03 38 1.286e-03 35 1.471e-03 47 56 max .236 32 .016 39 .31 35 1.235e-03 34 3.067e-02 51 .384e-04 39 57		N24						
47 N25 max 236 32 .019 43 .195 35 7.704-04 24 4.988-04 36 4.907-03 41 1.7988-04 36 4.907-03 41 5.704-04 42 9.908-04 36 4.907-03 41 9.704-04 42 9.908-04 36 3.907-03 41 9.7988-04 42 9.207-04 40 2.70-03 34 3.067e-02 51 3.917e-04 39 41 4.7988-04 40 2.7e-03 32 1.483e-03 41 4.727e-03 35 3.216-03 36 2.1463e-03 81 2.78e-03 32 1.443e-04 49 3.5 2.56 42 3.38 2.056 38 1.297-03 35 1.266e-03 35 1.248e-03 31 1.71e-03 471e-03		1121	-					
48 min -233 38 -056 38 -197 41 -1988e-04 46 4.907e-03 41 5027e-04 40 527e-03 52 -127e-03 52 -127e-03 52 -128e-03 45 50 min -327 38 -058 33 -268 41 4-226e-04 40 2.7e-03 32 -128e-03 42 51 N27 max 236 32 016 39 -197 35 1.247e-03 32 1.443e-04 41 -2.7e-03 32 1.443e-04 42 3.158e-02 45 35.1261e-04 38 1.248e-03 50 50 51 2.060e-03 55 1.248e-03 38 1.248e-03 45 50.27e-04 40 57 N30 max 42 2.016 39 -137 13 51 2.26e-03 36 2.145e-03 38 1.28e-04 43 51.29e-03 56 1.490e-04 43 52 1.28e-03 51.24e-03 38 1.28e-04 44 1.28e-04 44 1.28e-03 3		N25						
49 N26 max .41 32 .016 39 .296 35 1.277-e.03 34 3.067e-02 51 .3917e-04 32 50 min .327 38 .059 33 .268 41 4.242e-04 40 2.7e-03 35 1.247e-03 36 1.27e-03 36 1.27e-0		1120						
50 min 327 38 058 33 268 41 4.226-04 40 2.7e-03 32 1.486e-03 45 51 Max		N26						
51 N27 max 236 32 0.16 33 1.97 35 1.247e-03 35 3.067e-02 51 4.463e-03 49 53 N28 max .33 32 0.16 43 .297 35 1.261e-03 36 2.145e-03 38 1.288e-03 49 54 min -407 38 -056 38 -269 41 4.713e-04 42 3.158e-02 45 3.951e-04 43 55 N29 max .422 32 .016 43 .195 35 1.296e-03 34 .067e-02 51 .384e-04 39 58 min 323 38 .056 38 .272 41 .403e-04 41 .318e-02 45 5.027e-04 40 59 N31 max .325 32 .016 43 .111 35 1.4269e-03 35 .168e-04 43 .161 N32 .128e								
52 min 233 38 059 33 199 41 8914er-40 41 27e-03 32 1.463er-03 50 54 min 407 38 056 38 269 41 4.713er-04 42 3158er-02 45 3.951er-04 43 55 N29 max .236 32 .016 43 .197 41 9422er-04 41 3158er-02 45 .5027er-04 40 56 min 233 38 057 38 107 31 35 1.235er-03 36 1.245er-03 38 1.29er-03 50 59 N31 max 225 32 .016 38 217 41 4.79er-03 36 2.145er-03 38 1.29er-03 50 63 Max 224 20 0.66 38 217 41 4.79er-04 43 .43er-04 43 42er-03 35		N27						
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54 min 407 38 266 38 269 41 4.713e-04 42 3.158e-02 45 3.951e-04 43 55 N29 max .236 32 .016 43 .195 35 1.296e-03 35 2.145e-03 38 1.471e-03 47 56 min 233 38 057 38 197 41 942e-04 41 3.158e-02 45 5.027e-04 40 57 N30 max .42 32 016 43 212 41 4.30e-03 36 2.145e-03 38 1.29e-03 50 60 min 417 .38 056 38 273 41 4.30e-03 35 3.067e-02 51 404-04 43 .362 .046 43 .02 .028 .02 .046 .03 .062 .045 .040e-04 .05 .046 .046 .046 .046 .04		N28						
55 N29 max .236 32 .016 43 .195 35 1.296e-03 35 2.145e-03 48 1.471e-03 47 56 min 233 38 057 38 197 41 -9.422e-04 41 -3.136e-02 55 5.027e-04 40 57 N30 max .42 32 .016 33 272 41 -4.304e-04 40 2.7e-03 32 -1.287e-03 46 59 N31 max .325 32 .016 33 113 51 1.269e-03 35 3.067e-02 51 -4.034e-04 43 60 min 255 38 057 38 179 41 738e-04 41 .2.7e-03 32 1.485e-03 38 1.493e-03 46 63 N33 max .258 32 .016 43 .168 51 .092e-03 35 2.148e-03 38 <td></td> <td>1120</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		1120						
56 min 233 38 057 38 197 41 942e-04 41 318e-02 45 5.07e-04 40 57 N30 max .42 32 .016 39 .31 35 1.232e-03 34 3.067e-02 51 3.84e-04 39 58 min .323 38 056 33 .272 41 4.30e-04 42 .318e-02 45 3.873e-04 43 60 min .417 38 .056 38 .273 41 479e-03 32 .148e-03 50 61 N32 max .224 32 .016 33 .163 51 .043e-03 41 .378e-04 41 .318e-02 45 4.098e-03 36 .489e-04 45 .499e-03 36 .388e-03 32 .489e-03 41 .328e-03 35 .338e-03 32 .67 N35 max .043 32 <td></td> <td>N29</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		N29						
57 N30 max .42 32 .016 33 .35 1.235e-03 34 0.67e-02 51 -3.84e-04 39 58 min 323 38 058 33 272 41 -4.304e-04 40 -2.7e-03 32 -1.287e-03 40 59 N31 max .325 32 .016 43 .311 35 1.269e-03 36 2.145e-03 38 .129e-04 43 61 N32 max .224 32 .016 39 .171 35 1.043e-03 35 3.067e-02 51 4.034e-04 43 62 min 255 38 .057 38 -179 41 -7.332e-04 41 3.158e-02 45 4.096e-04 37 65 N34 max .043 32 .02 38 .022 35 -3.22e-03 41 3.158e-02 45 4.096e-04 37 65 N34 max .043 32 .02 38 .022 34		1120						
58 min 323 38 058 33 272 41 -4.34-04 40 -2.7e-03 32 1.28e-03 50 60 min 417 38 056 38 273 41 -4.79e-04 42 -3.158e-02 45 3.873e-04 43 61 N32 max 224 32 .016 39 .171 35 1.043e-03 35 3.067e-02 51 -4.034e-04 43 62 min 255 38 -0.057 38 179 41 -7.382e-04 41 -3.158e-02 45 4.096e-0.3 35 2.148e-03 36 1.493e-03 36 66 min -0.43 32 .02 32 .024 41 1.39e-04 41 5.27e-03 35 3.332e-03 38 67 N35 max .043 32 .02 38 .024 41 1.89e-04 45 5.27e-03 35<		N30						
59 N31 max .325 32 .016 43 .311 35 1.269e-03 36 2.145e-03 38 1.29e-03 40 60 min 417 38 056 38 273 41 4.791e-04 42 3.158e-02 45 3.873e-04 43 61 N32 max .224 32 .016 39 .171 35 1.043e-03 35 3.067e-02 51 4.439e-03 46 62 min 255 38 057 38 .168 35 1.092e-03 35 2.145e-03 38 1.493e-03 46 64 min 043 32 .02 38 028 35 4.43e-04 41 5.527e-03 35 3.332e-03 38 66 min 043 32 .022 32 .028 35 4.41e-03 35 3.332e-03 35 3.332e-03 35 4.266e-03 38		1100						
60 min 417 38 056 38 273 41 4.791e-04 42 3158e-02 45 3.873e-04 43 61 N32 max .224 32 .016 39 .171 35 1.043e-02 51 3.4.034e-04 43 62 min .255 38 .059 33 .182 41 -6.873e-04 41 .2.7e-03 32 1.485e-03 46 63 N33 max .258 32 .016 43 .168 35 1.092e-03 35 2.145e-03 38 1.493e-03 46 64 min 043 32 .02 32 .44 1.3.15e-04 41 3.252e-03 41 3.338e-03 32 66 min 043 32 .02 38 .462e-448e-04 41 .3.314e-03 32 .338e-03 32 .71 .337 .68 .78 .78 .338e-03 32 <td></td> <td>N31</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		N31						
61 N32 max .224 32 .016 39 .171 35 1.043e-03 35 3.067e-02 51 4.034e-04 43 62 min 255 38 059 33 182 41 -8.73e-04 41 -2.7e-03 32 1.485e-03 60 63 M33 max .258 32 .016 43 .168 35 1.092e-03 35 2.145e-03 38 4.09e-04 37 65 N34 max .043 32 .02 32 .024 41 2.449e-04 35 5.22e-03 41 3.259e-03 32 67 N35 max .043 32 .02 38 028 35 -3.8e-04 42 4.98e-03 41 +.17e-03 32 68 min 043 38 026 38 .021 41 -8.823e-06 38 5.5e-03 5 4.266e-03 38								
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63 N33 max .258 32 .016 43 .168 35 1.092e-03 35 2.145e-03 38 1.493e-03 46 64 min 221 38 057 38 179 41 7382e-04 41 3158e-02 45 4.096e-04 37 65 N34 max .043 32 .02 38 028 35 -4.462e-04 41 -5.52re-03 35 -3.38e-03 32 67 N35 max .043 32 .02 38 .024 41 1.89e-04 45 5.21e-03 35 .332e-03 38 68 min 043 38 027 35 -1.701e-04 51 -5.714e-03 41 -3.314e-03 32 69 N36 max .115 32 .026 38 .021 41 -8.82e-06 38 5.5e-03 35 4.4.26e-03 32 71		1102						
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65 N34 max .043 32 .02 32 .024 41 2.449e-04 35 5.22e-03 41 3.259e-03 38 66 min 043 38 02 38 024 41 1.89e-04 36 5.281e-03 35 -3.388e-03 32 67 N35 max .043 32 .02 38 .024 41 1.89e-04 36 5.281e-03 35 -3.38e-03 32 68 min 043 38 .021 32 .028 35 -3.8e-04 42 4.98e-03 41 4.332e-03 32 69 N36 max .115 32 .026 38 .021 41 -8.82e-03 35 4.266e-03 38 5.2e-03 35 4.266e-03 32 71 N37 max .114 38 .026 32 .028 35 1.84e-04 45 5.238e-03 35 1.		1100						
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69N36max.11532.02632.0241-6.08e-06335.441e-03414.177e-033870min114380263802735-1.701e-0451-5.714e-0335-4.33e-033271N37max.11532.02638.02141-8.823e-06385.5e-03354.266e-033872min1143802632028351.64e-0445-5.233e-0341-4.242e-033273CBRS-2max.04332.02233.136351.927e-04354.734e-03351.839e-035374min0433806371341-3.874e-0441-4.445e-03417.361e-043475B2/66A-2max.0433201734.224352.057e-04351.985e-03352.08e-033276min043380745221341-4.021e-0441-1.866e-0341-8.084e-043877B5/13-2max.0433201936228352.318e-04351.6e-0341-8.084e-043278min043380765621741-4.169e-0441-1.716e-0335-1.984e-033680min-		1100						
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71 N37 max .115 32 .026 38 .021 41 -8.823e-06 38 5.5e-03 35 4.266e-03 38 72 min 114 38 026 32 028 35 -1.64e-04 45 -5.233e-03 41 -4.242e-03 32 73 CBRS-2 max .043 32 .022 33 .136 35 1.927e-04 35 4.734e-03 35 1.839e-03 53 74 min 043 38 06 37 13 41 -3.874e-04 41 -4.445e-03 41 7.361e-04 34 75 B2/66A-2 max .043 32 017 34 .224 35 2.057e-04 35 1.985e-03 35 2.08e-03 32 76 min 043 38 076 56 217 41 -4.169e-04 41 -1.866e-03 41 8.084e-04 38 79 OVP-2 max .043 32 .018 38 .143		1100						
72 min 114 38 026 32 028 35 -1.64e-04 45 -5.233e-03 41 -4.242e-03 32 73 CBRS-2 max .043 32 .022 33 .136 35 1.927e-04 35 4.734e-03 35 1.839e-03 53 74 min 043 38 06 37 13 41 -3.874e-04 41 -4.445e-03 41 7.361e-04 34 75 B2/66A-2 max .043 32 017 34 .224 35 2.057e-04 35 1.985e-03 35 2.08e-03 32 76 min 043 38 074 52 213 41 -4.021e-04 41 -1.86e-03 41 -8.084e-04 38 77 B5/13-2 max .043 32 .019 36 .228 35 2.318e-04 35 1.6e-03 41 -7.88ae-03 38 <		N37						
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74min0433806371341-3.874e-0441-4.445e-03417.361e-043475B2/66A-2max.0433201734.224352.057e-04351.985e-03352.08e-033276min043380745221341-4.021e-0441-1.866e-0341-8.084e-043877B5/13-2max.0433201936.228352.188e-04351.6e-03419.04e-043278min043380765621741-4.169e-0441-1.716e-0335-1.984e-033879OVP-2max.04332.01838.143352.318e-04354.526e-0341-7.883e-043680min043380634313741-4.316e-0441-4.818e-0335-1.917e-035581CBRS-1max.11532.03243.14235-3.697e-05384.872e-03351.858e-034982min1143807381441-1.6e-0445-4.593e-03417.065e-044283B2/66A-1max.11532.01243.23235-5.688e-05362.033e-03352.491e-033284min <td></td> <td>CBRS-2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		CBRS-2						
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76min043380745221341-4.021e-0441-1.866e-0341-8.084e-043877B5/13-2max.0433201936.228352.188e-04351.6e-03419.04e-043278min043380765621741-4.169e-0441-1.716e-0335-1.984e-033879OVP-2max.04332.01838.143352.318e-04354.526e-0341-7.883e-043680min043380634313741-4.316e-0441-4.818e-0335-1.917e-035581CBRS-1max.11532.03243.14235-3.697e-05384.872e-03351.858e-034982min11438073814441-1.6e-0445-4.593e-03417.065e-044283B2/66A-1max.11532.01243.23235-5.688e-05362.033e-03352.491e-033284min114380763622541-1.561e-0456-1.916e-0341-1.211e-033885B5/13-1max.1153201439.236355.406e-05341.643e-03411.311e-033286min		B2/66A-2						
77B5/13-2max.0433201936.228352.188e-04351.6e-03419.04e-043278min043380765621741-4.169e-0441-1.716e-0335-1.984e-033879OVP-2max.04332.01838.143352.318e-04354.526e-0341-7.883e-043680min043380634313741-4.316e-0441-4.818e-0335-1.917e-035581CBRS-1max.11532.03243.14235-3.697e-05384.872e-03351.858e-034982min1143807381441-1.6e-0445-4.593e-03417.065e-044283B2/66A-1max.11532.01243.23235-5.688e-05362.033e-03352.491e-033284min114380763622541-1.561e-0456-1.916e-0341-1.211e-033885B5/13-1max.11532.01439.23635-5.406e-05341.643e-03411.311e-033286min.11438.07933.22941-1.577e-0452-1.759e-0335-2.391e-033887OVP-1 </td <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td>			-					
78min043380765621741-4.169e-0441-1.716e-0335-1.984e-033879OVP-2max.04332.01838.143352.318e-04354.526e-0341-7.883e-043680min043380634313741-4.316e-0441-4.818e-0335-1.917e-035581CBRS-1max.11532.03243.14235-3.697e-05384.872e-03351.858e-034982min1143807381441-1.6e-0445-4.593e-03417.065e-044283B2/66A-1max.1153201243.23235-5.688e-05362.033e-03352.491e-033284min114380763622541-1.561e-0456-1.916e-0341-1.211e-033885B5/13-1max.1153201439.23635-5.406e-05341.643e-03411.311e-033286min114380793322941-1.577e-0452-1.759e-0335-2.391e-033887OVP-1max.11532.02939.14935-3.149e-05334.657e-0341-7.551e-044088		B5/13-2						
79 OVP-2 max .043 32 .018 38 .143 35 2.318e-04 35 4.526e-03 41 -7.883e-04 36 80 min 043 38 063 43 137 41 -4.316e-04 41 -4.818e-03 35 -1.917e-03 55 81 CBRS-1 max .115 32 .032 43 .142 35 -3.697e-05 38 4.872e-03 35 1.858e-03 49 82 min 114 38 07 38 14 41 -1.6e-04 45 -4.593e-03 41 7.065e-04 42 83 B2/66A-1 max .115 32 012 43 .232 35 -5.688e-05 36 2.033e-03 35 2.491e-03 32 84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38		00/10-2						
80 min 043 38 063 43 137 41 -4.316e-04 41 -4.818e-03 35 -1.917e-03 55 81 CBRS-1 max .115 32 .032 43 .142 35 -3.697e-05 38 4.872e-03 35 1.858e-03 49 82 min 114 38 07 38 14 41 -1.6e-04 45 -4.593e-03 41 7.065e-04 42 83 B2/66A-1 max .115 32 012 43 .232 35 -5.688e-05 36 2.033e-03 35 2.491e-03 32 84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38 85 B5/13-1 max .115 32 014 39 .236 35 5.406e-05 34 1.643e-03 41 1.311e-03 32		0\/P_2						
81 CBRS-1 max .115 32 .032 43 .142 35 -3.697e-05 38 4.872e-03 35 1.858e-03 49 82 min 114 38 07 38 14 41 -1.6e-04 45 -4.593e-03 41 7.065e-04 42 83 B2/66A-1 max .115 32 012 43 .232 35 -5.688e-05 36 2.033e-03 35 2.491e-03 32 84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38 85 B5/13-1 max .115 32 014 39 .236 35 -5.406e-05 34 1.643e-03 41 1.311e-03 32 86 min 114 38 079 33 229 41 -1.577e-04 52 -1.759e-03 35 -2.391e-03 38 87 OVP-1 max .115 32 .029 39		011-2						
82 min 114 38 07 38 14 41 -1.6e-04 45 -4.593e-03 41 7.065e-04 42 83 B2/66A-1 max .115 32 012 43 .232 35 -5.688e-05 36 2.033e-03 35 2.491e-03 32 84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38 85 B5/13-1 max .115 32 014 39 .236 35 -5.406e-05 34 1.643e-03 41 -1.211e-03 32 86 min 114 38 079 33 229 41 -1.577e-04 52 -1.759e-03 35 -2.391e-03 38 87 OVP-1 max .115 32 .029 39 .149 35 -3.149e-05 33 4.657e-03 41 -7.551e-04 40 <td></td> <td>CBRS-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		CBRS-1						
83 B2/66A-1 max .115 32 012 43 .232 35 -5.688e-05 36 2.033e-03 35 2.491e-03 32 84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38 85 B5/13-1 max .115 32 014 39 .236 35 -5.406e-05 34 1.643e-03 41 1.311e-03 32 86 min 114 38 079 33 229 41 -1.577e-04 52 -1.759e-03 35 -2.391e-03 38 87 OVP-1 max .115 32 .029 39 .149 35 -3.149e-05 33 4.657e-03 41 -7.551e-04 40 88 min 114 38 073 33 147 41 -1.637e-04 51 -4.941e-03 35 -1.937e-03 47 89 MX10-2A max .233 32 .016 39		0010-1						
84 min 114 38 076 36 225 41 -1.561e-04 56 -1.916e-03 41 -1.211e-03 38 85 B5/13-1 max .115 32 014 39 .236 35 -5.406e-05 34 1.643e-03 41 1.311e-03 32 86 min 114 38 079 33 229 41 -1.577e-04 52 -1.759e-03 35 -2.391e-03 38 87 OVP-1 max .115 32 .029 39 .149 35 -3.149e-05 33 4.657e-03 41 -7.551e-04 40 88 min 114 38 073 33 147 41 -1.637e-04 51 -4.941e-03 35 -1.937e-03 47 89 MX10-2A max .233 32 .016 39 .191 35 1.078e-03 35 0.67e-02 51 -4.34e-04 43 <td></td> <td>B2/664-1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		B2/664-1						
85B5/13-1max.1153201439.23635-5.406e-05341.643e-03411.311e-033286min114380793322941-1.577e-0452-1.759e-0335-2.391e-033887OVP-1max.11532.02939.14935-3.149e-05334.657e-0341-7.551e-044088min114380733314741-1.637e-0451-4.941e-0335-1.937e-034789MX10-2Amax.23332.01639.191351.078e-03353.067e-0251-4.34e-0443		52/00A-1	-					
86min114380793322941-1.577e-0452-1.759e-0335-2.391e-033887OVP-1max.11532.02939.14935-3.149e-05334.657e-0341-7.551e-044088min114380733314741-1.637e-0451-4.941e-0335-1.937e-034789MX10-2Amax.23332.01639.191351.078e-03353.067e-0251-4.34e-0443		B5/12 1						
87OVP-1max.11532.02939.14935-3.149e-05334.657e-0341-7.551e-044088min114380733314741-1.637e-0451-4.941e-0335-1.937e-034789MX10-2Amax.23332.01639.191351.078e-03353.067e-0251-4.34e-0443		00/10-1	_					
88 min 114 38 073 33 147 41 -1.637e-04 51 -4.941e-03 35 -1.937e-03 47 89 MX10-2A max .233 32 .016 39 .191 35 1.078e-03 35 3.067e-02 51 -4.34e-04 43								
89 MX10-2A max .233 32 .016 39 .191 35 1.078e-03 35 3.067e-02 51 -4.34e-04 43								
		MX10.24						
	09		Ingr					

RISA-3D Version 17.0.0 [G:\...\...\13 - Amsterdam Center\Structural\10272.13 - Beta Sector.r3d] Page 3



Envelope Joint Displacements (Continued)

	Joint		X [in]	LC	Y [in]	LC	Z [in]	LC X Rotation LC Y Rotation LC Z Rotation	[LC
90		min	237	38	059	33	195	41 -7.227e-04 41 -2.7e-03 32 -1.478e-0	3 50
91	MX10-2	max	.241	32	.016	43	.189	35 1.128e-03 35 2.145e-03 38 1.486e-0	3 46
92		min	23	38	057	38	193	41 -7.735e-04 41 -3.158e-02 45 4.402e-0	4 37
93	MX10-1A	max	.4	32	.016	39	.289	35 1.248e-03 34 3.067e-02 51 7.191e-0	4 38
94		min	326	38	058	33	266	41 -5.411e-04 40 -2.7e-03 32 -1.978e-0	3 32
95	MX10-1	max	.329	32	.016	43	.289	35 1.285e-03 36 2.145e-03 38 1.98e-03	3 38
96		min	397	38	056	38	266	41 -5.889e-04 42 -3.158e-02 45 -7.17e-0	4 32
97	K/CONN2	max	0	58	0	58	0	58 3.504e-03 36 3.758e-03 42 6.663e-0	3 39
98		min	0	31	0	31	0	31 -8.701e-04 43 -4.949e-03 36 -5.57e-0	3 33
99	K/CONN1	max	0	58	0	58	0	58 3.594e-03 33 4.92e-03 34 4.863e-0	3 38
100		min	0	31	0	31	0	31 -8.701e-04 37 -3.712e-03 40 -6.675e-0	3 43
101	N51	max	.043	32	0	36	.004	35 1.89e-04 36 5.282e-03 35 3.332e-0	3 38
102		min	043	38	001	42	006	41 -3.8e-04 42 -4.981e-03 41 -3.313e-0	3 32
103	N52	max	.115	32	0	39	.005	36 -8.823e-06 38 5.501e-03 35 4.266e-0	
104		min	114	38	001	33	011	42 -1.64e-04 45 -5.234e-03 41 -4.241e-0	3 32
105	N53	max	.043	32	0	34	.005	35 2.449e-04 35 5.221e-03 41 3.258e-0	3 38
106		min	043	38	001	40	007	41 -4.463e-04 41 -5.529e-03 35 -3.388e-0	3 32
107	N54	max	.115	32	0	43	.007	<u>34 -6.08e-06 33 5.442e-03 41 4.176e-0</u>	3 38
108		min	114	38	001	50	013	40 -1.701e-04 51 -5.715e-03 35 -4.331e-0	
109	N55	max	.045	33	0	40	.004	35 1.89e-04 36 5.282e-03 35 3.332e-0	
110		min	044	37	0	34	006	41 -3.8e-04 42 -4.981e-03 41 -3.313e-0	3 32
111	N56	max	.116	32	0	40	.005	36 -8.823e-06 38 5.501e-03 35 4.266e-0	3 38
112		min	114	38	0	34	011	42 -1.64e-04 45 -5.234e-03 41 -4.241e-0	3 32
113	N57	max	.045	43	0	42	.005	35 2.449e-04 35 5.221e-03 41 3.258e-0	3 38
114		min	043	38	0	36	007	41 -4.463e-04 41 -5.529e-03 35 -3.388e-0	3 32
115	N58	max	.115	32	0	42	.007	<u>34 -6.08e-06 33 5.442e-03 41 4.176e-0</u>	3 38
116		min	114	38	0	36	013	40 -1.701e-04 51 -5.715e-03 35 -4.331e-0	3 32

Max Deflection = 0.447" < 1.0" OK

APPENDIX G – Sector B

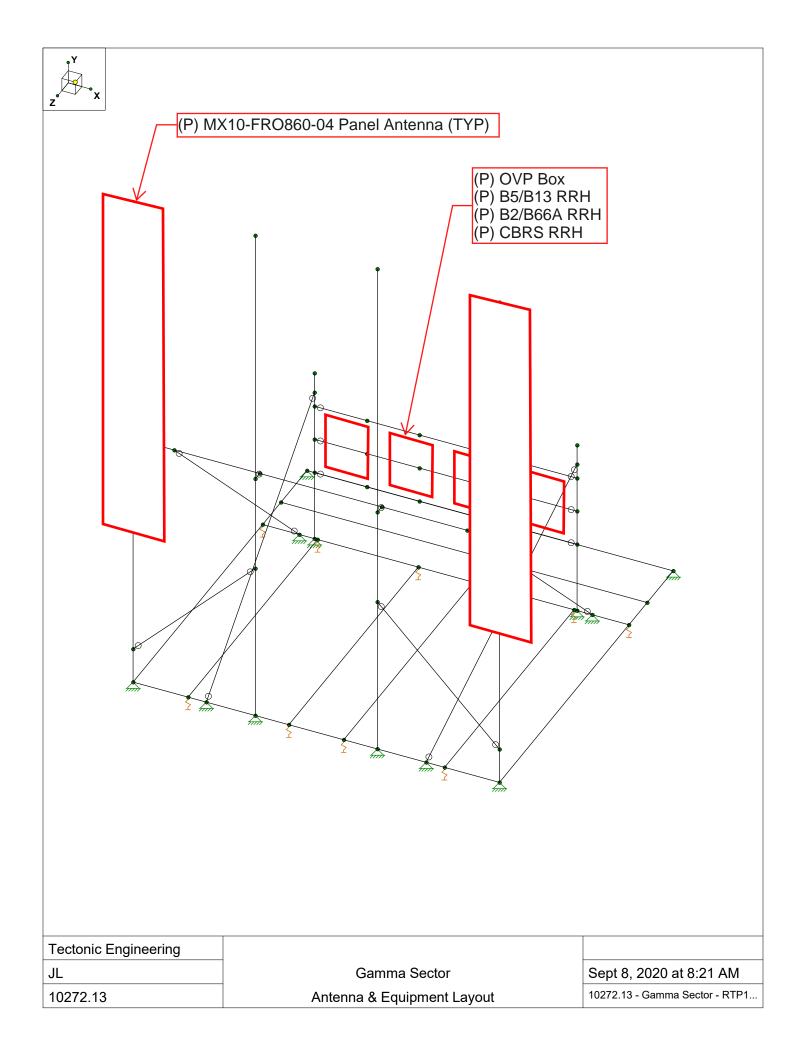
ADDITIONAL CALCULATIONS

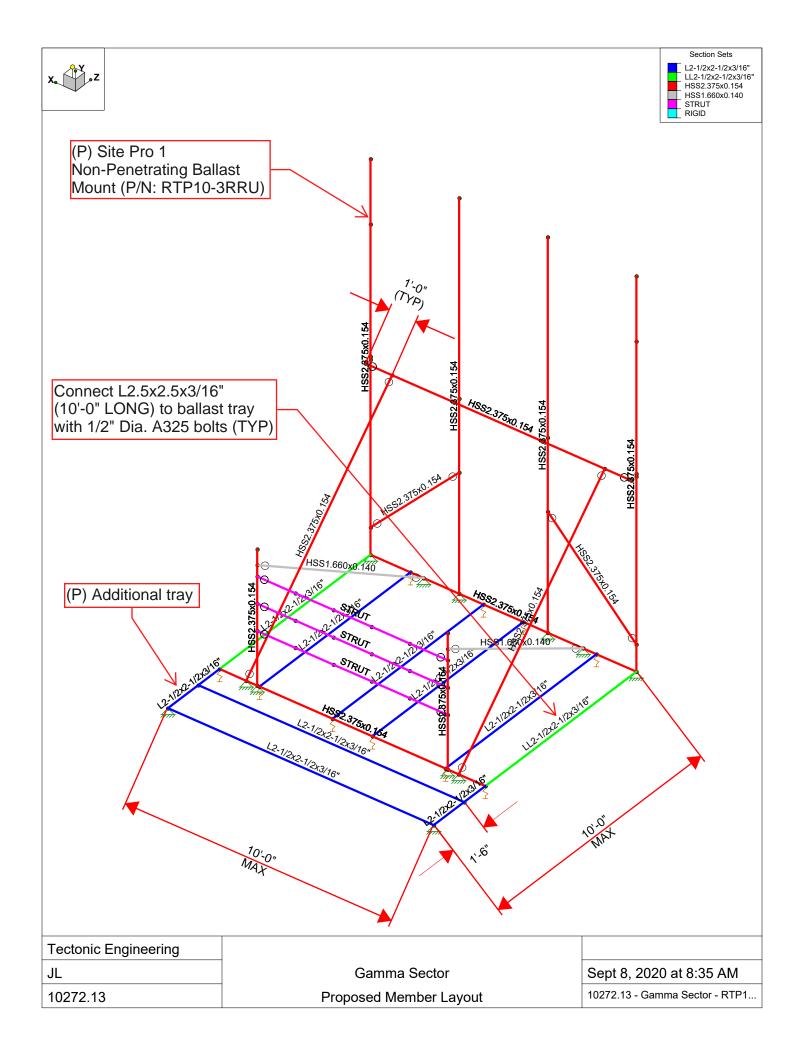
	Job No. 10272.13
Tectonic '	
	Calculated By: JL Date : 9/10/20
FRACTICAL SOLUTIONS, EXCEPTIONAL SERVICE.	Checked By: Date : 9/10/20
Design connection per AISC Steel Manual, 14th edition [A	
Connection Details	Loading Details T/CONN1 Env.
Bolts	
Quantity = 2	Shear, X = <u>1.46</u> k
Diameter = 0.625 in	Shear, Z = <u>0.254</u> k
Vertical Spacing =in (estima	ated) Tension, Y = 0.246 k
Horizontal Spacing = <u>6</u> in (estima	ated) Mx = 0 k-ft
Grade = A325 (assumed	i) My = 0 k-ft
	Mz = 0 k-ft
F _{nt} = 90 ksi	[Table J3.2]
F _{nv} = 54 ksi	[Table J3.2]
1 - Tensile Capacity	
$R_{nt}/\Omega = F_{nt}A_b$	[Eqn. J3-1]
$\Omega = 2.0$	
F _{nt} = 90 ksi	
$A_{b} = 0.307 \text{ in}^{2}$	
$R_{nt}/\Omega = 13.82 \text{ k}$	
$T_{max} = 0.12 k$	Rnt > Tmax
	1% <u>OK</u>
2 - Shear Capacity	
$R_{nv}/\Omega = F_{nv}A_b$	[Eqn. J3-1]
$\Omega = 2.0$	[Eqn. 55-1]
$F_{nv} = 54$ ksi	
$A_{b} = 0.307 \text{ in}^{2}$	
	Davis Marian
V _{max} = 0.74 k	Rnv > Vmax
2. Combined Tooling and Characteria	<u>9%</u> <u>OK</u>
3 - Combined Tension and Shear Capacity $B' = (O - F') = A$	(F 12.2)
$R'_{nt}/\Omega = F'_{nt}A_b$	[Eqn. J3-2]
$F'_{nt} = 1.3F_{nt} - \frac{\Omega F_n}{F_{nn}}$	$\int \frac{dt}{dt} f_{rv} \le F_{nt}$ [Eqn. J3-3b]
$\Omega = \boxed{2.0}$,
$R'_{nt} / \Omega = \frac{13.82}{0.12} k$	D'at a Taray
$T_{max} = 0.12$ k	R'nt > Tmax
	1% <u>OK</u>

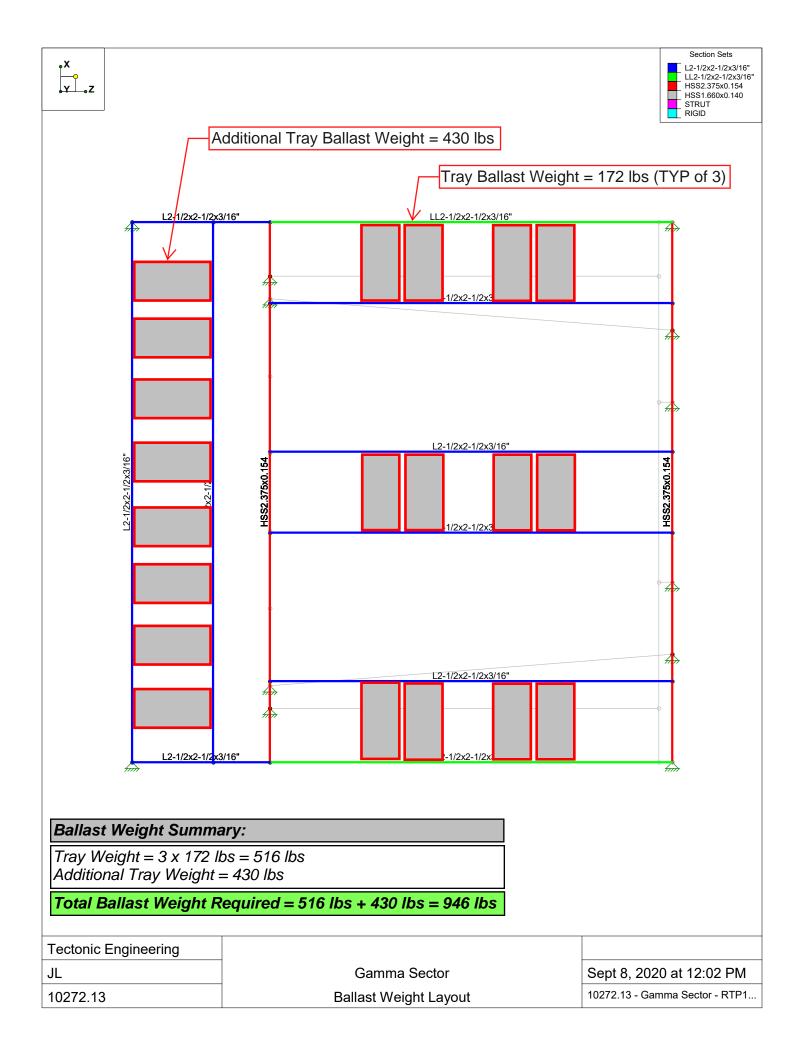
September 8, 2020

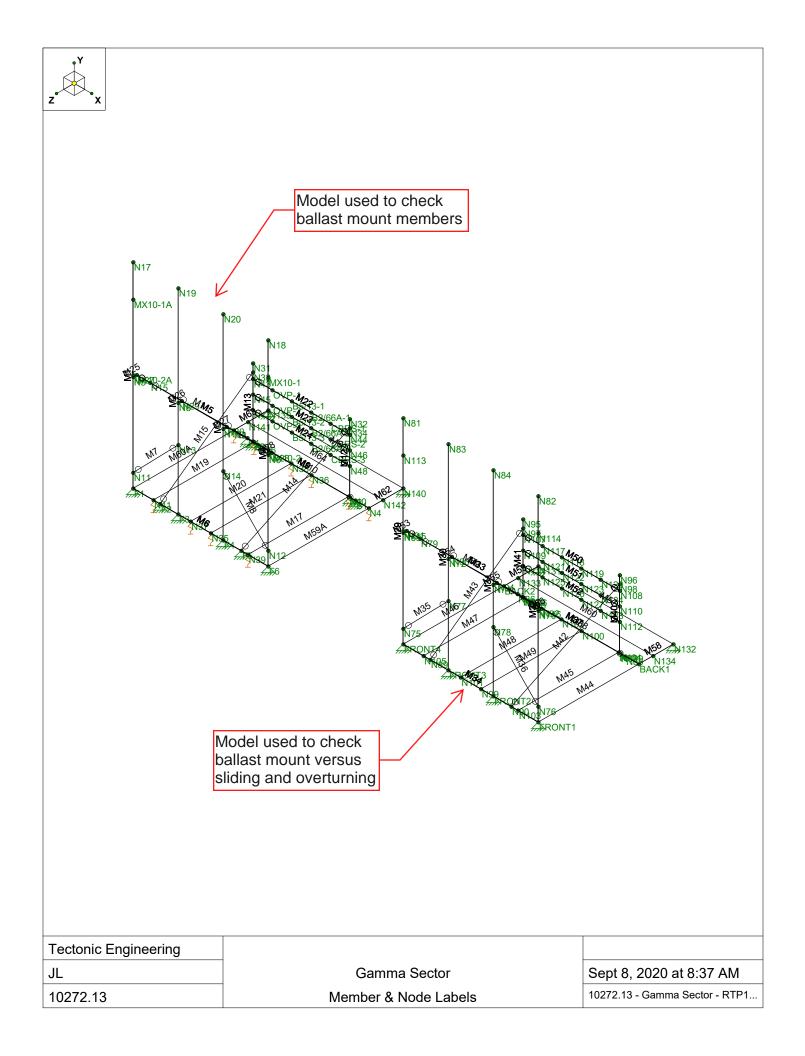
APPENDIX H – Sector C

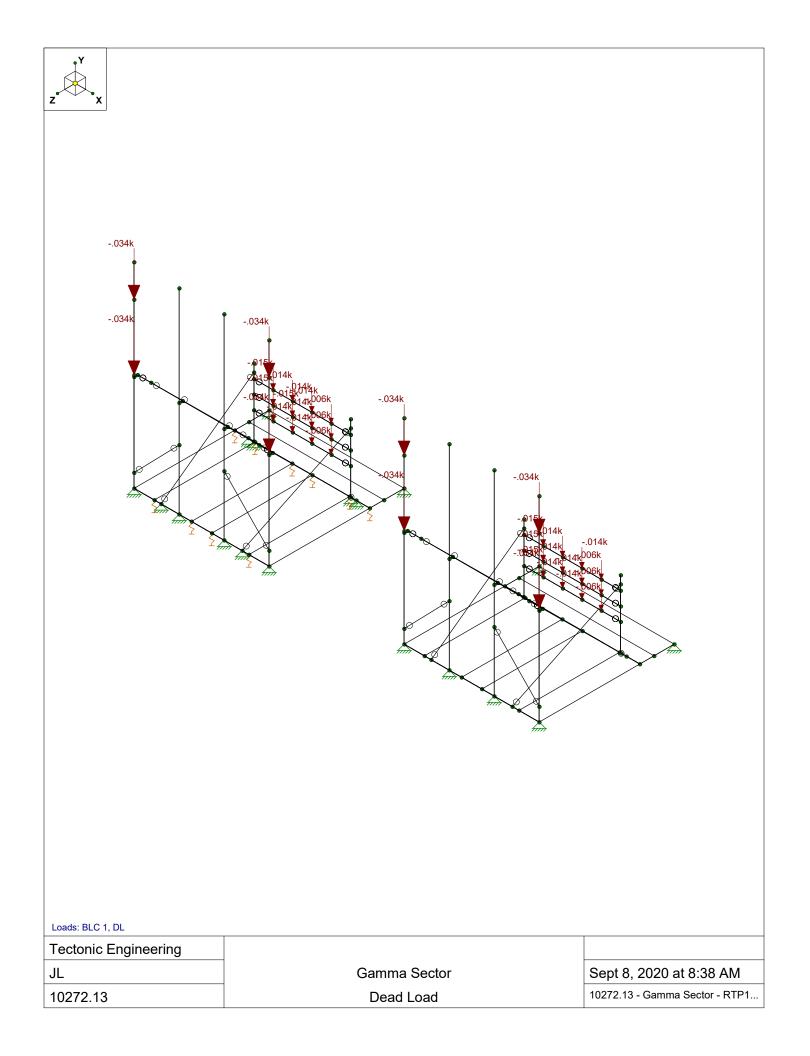
WIRE FRAME AND RENDERED MODELS

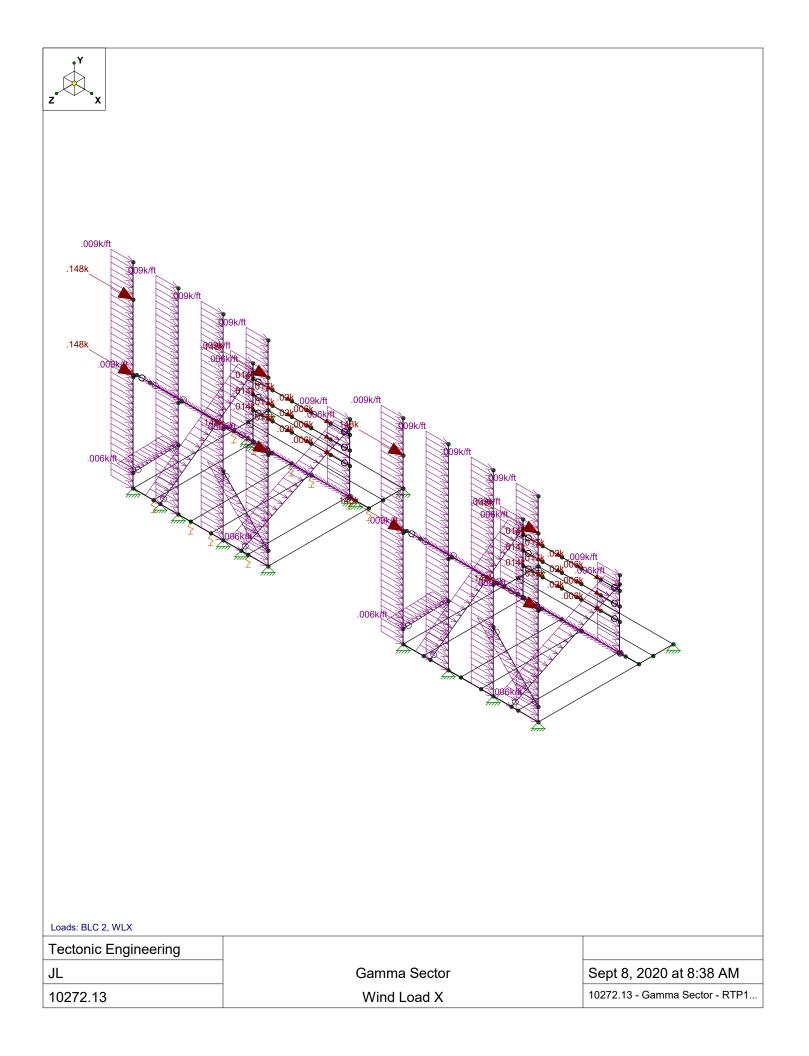


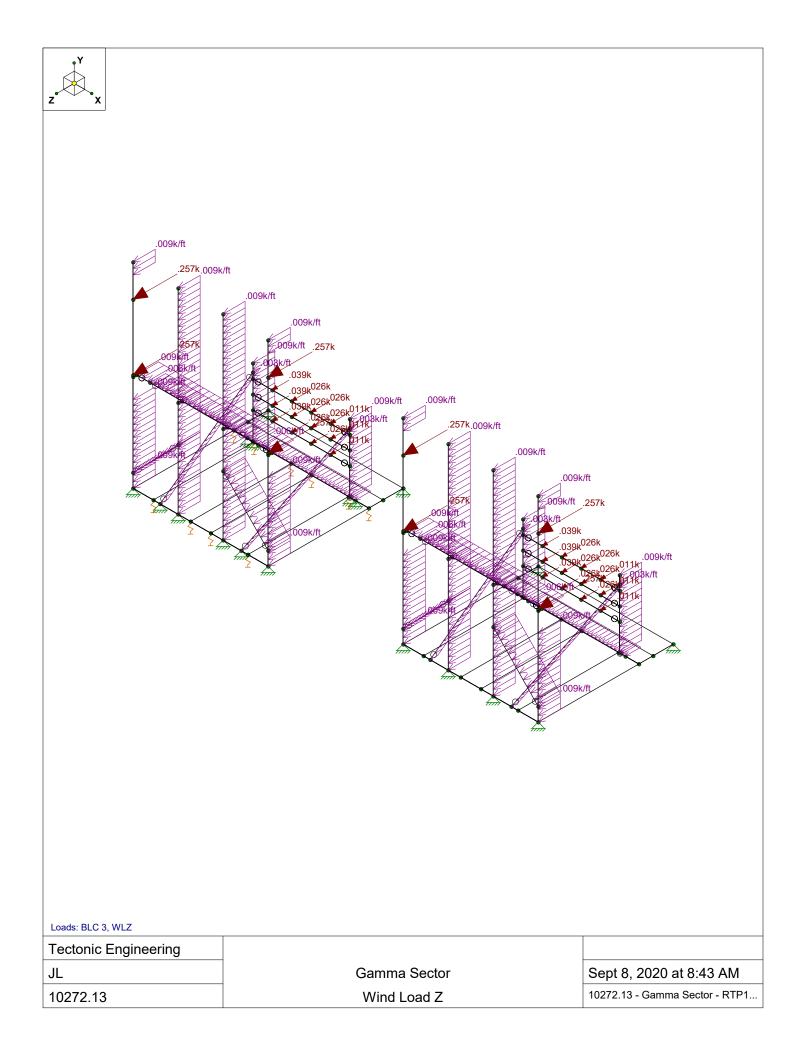


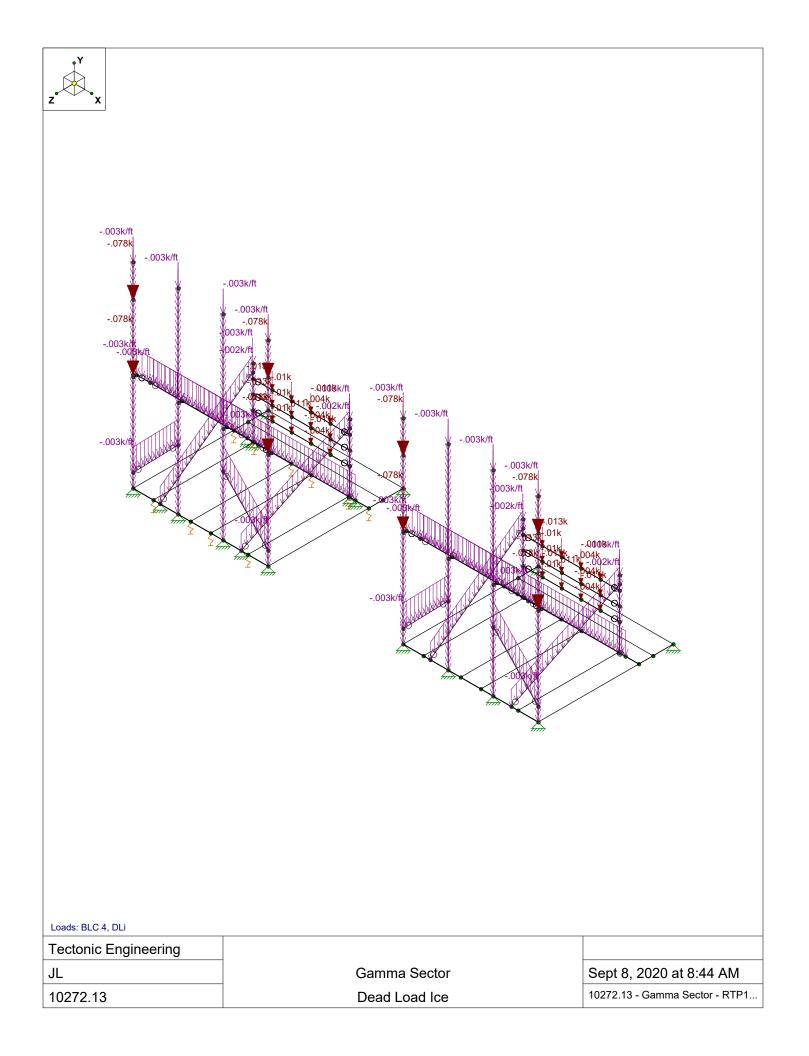


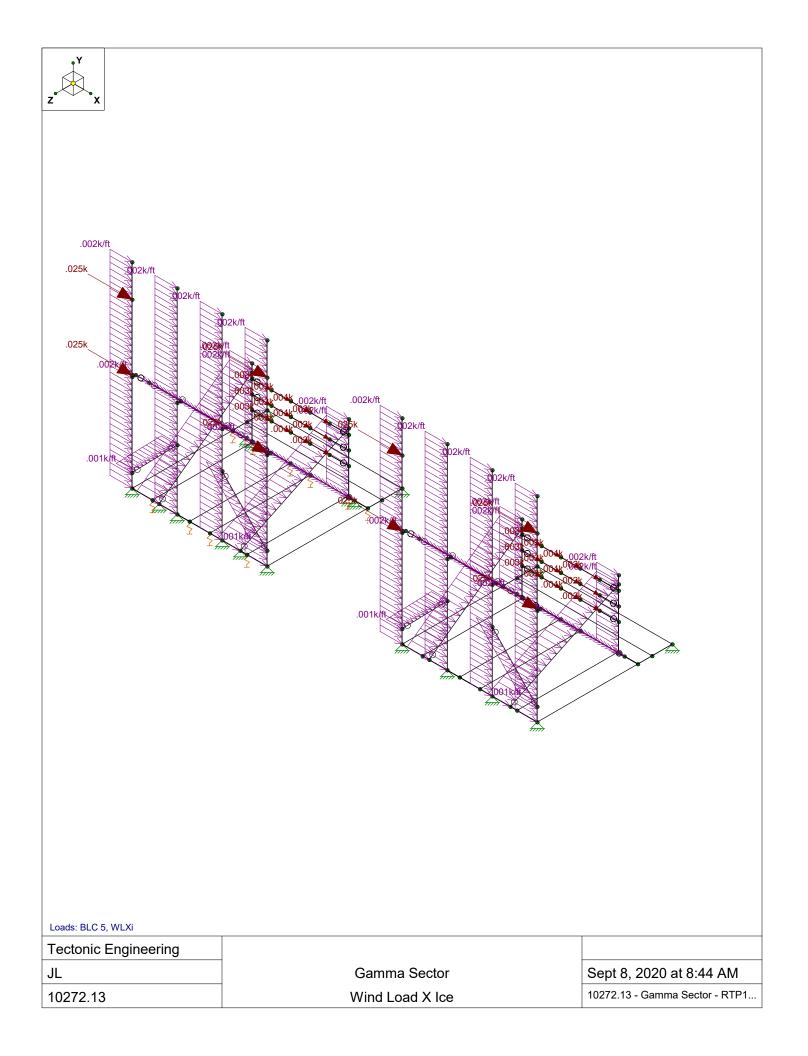


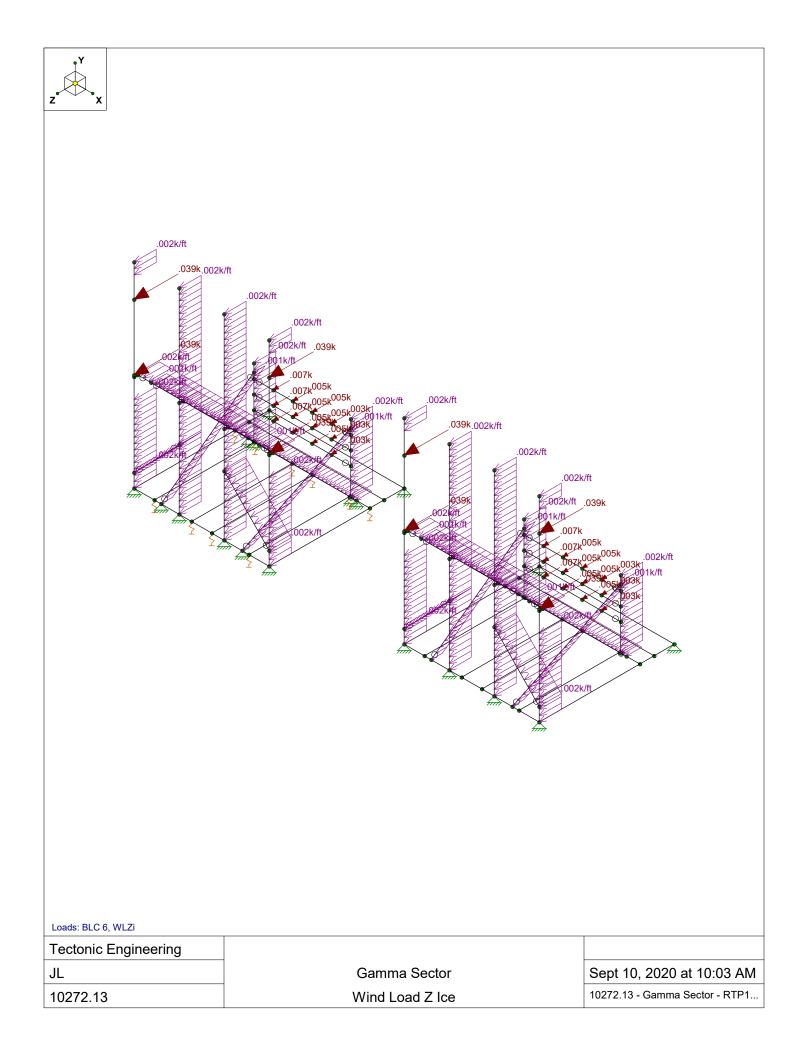


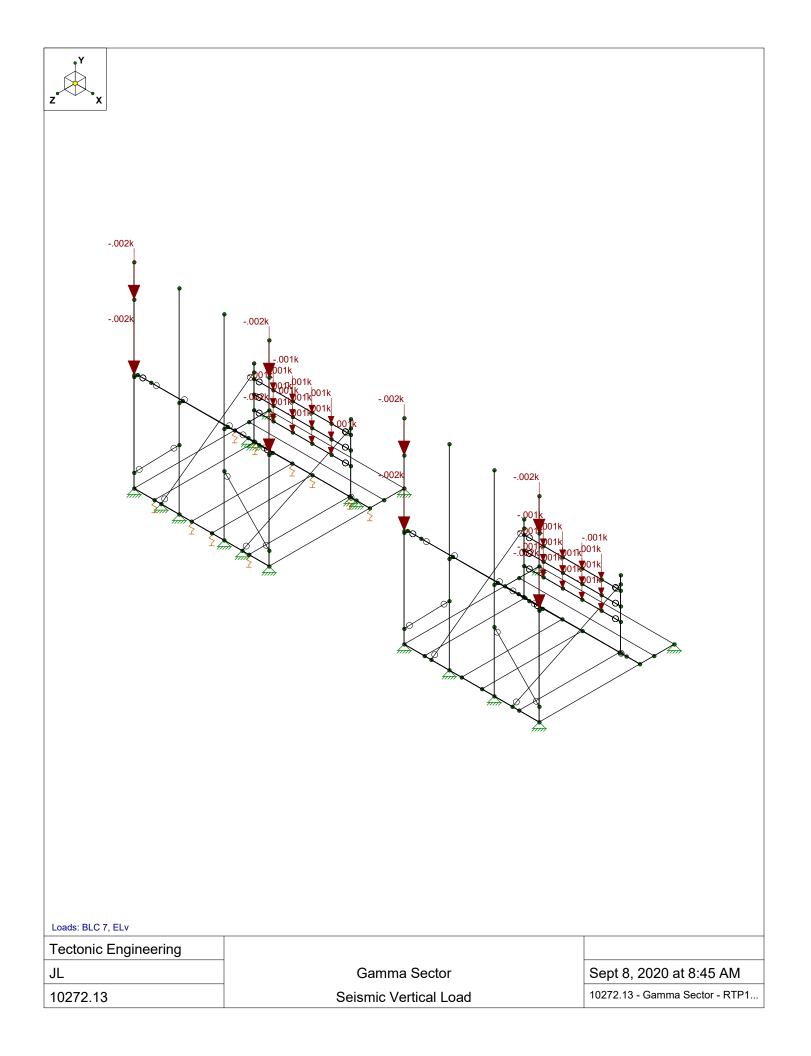


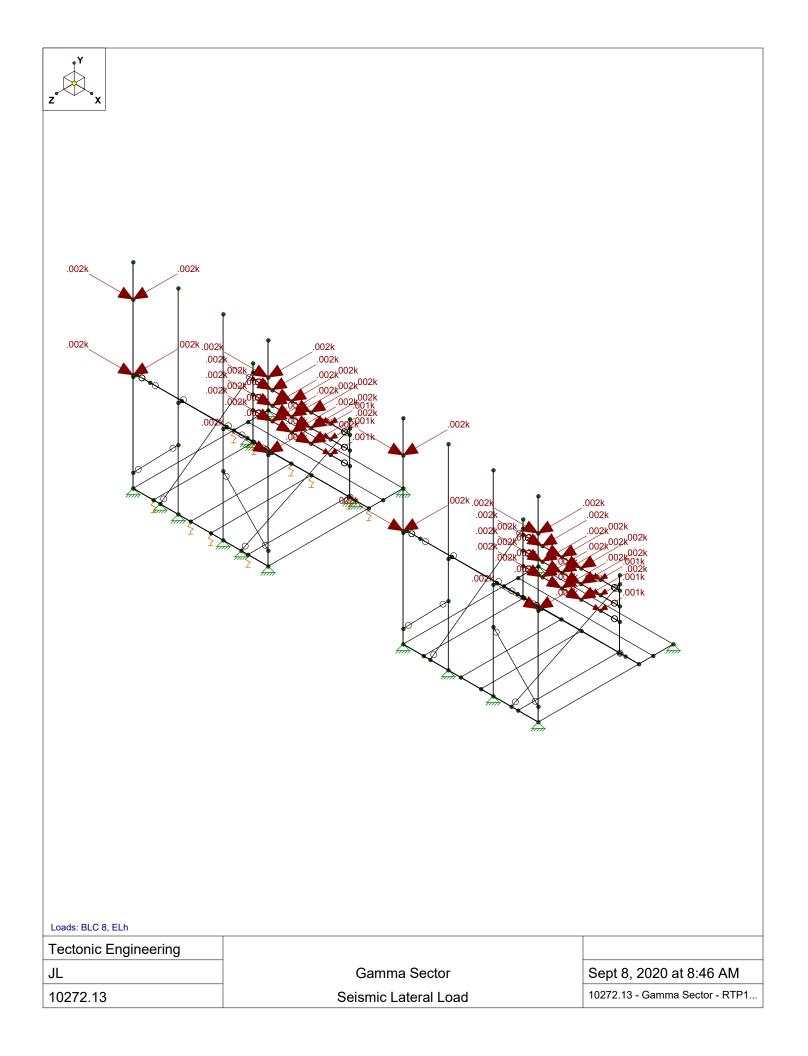








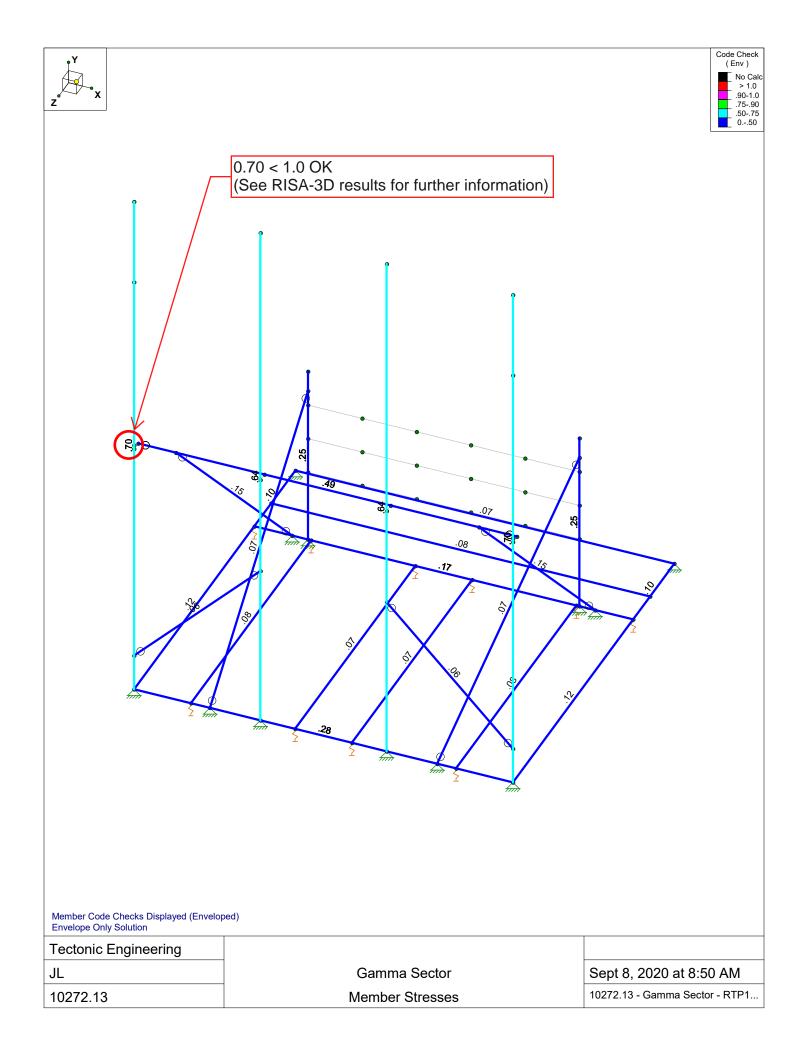




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APPENDIX I – Sector C

SOFTWARE ANALYSIS OUTPUT





Hot Rolled Steel Properties

	Label	E [ksi]	G [ksi]	Nu	Therm (\1	Density[k/ft^3]	Yield[ksi]	Ry	Fu[ksi]	Rt
1	A36 Gr.36	29000	11154	.3	.65	.49	36	1.5	58	1.2
2	A572 Gr.50	29000	11154	.3	.65	.49	50	1.1	65	1.1
3	A992	29000	11154	.3	.65	.49	50	1.1	65	1.1
4	A500 Gr.42	29000	11154	.3	.65	.49	42	1.4	58	1.3
5	A500 Gr.46	29000	11154	.3	.65	.49	46	1.4	58	1.3
6	A53 Gr. B	29000	11154	.3	.65	.49	36	1.5	58	1.2

Hot Rolled Steel Section Sets

	Label	Shape	Туре	Design List	Material	Design Rules	A [in2]	lyy [in4]	lzz [in4]	J [in4]
1	L2-1/2x2-1/2x3/16"	L2.5x2.5x3	Beam	Single Angle	A36 Gr.36	Typical	.901	.535	.535	.011
2	LL2-1/2x2-1/2x3/16"	LL2.5x2.5x3x0	Beam	Double Angle (No	A36 Gr.36	Typical	1.8	1.91	1.07	.023
3	HSS2.375x0.154	HSS2.375X0.154	Beam	Pipe	A53 Gr. B	Typical	1	.627	.627	1.25
4	HSS1.660x0.140	HSS1.660X0.140	Beam	Pipe	A53 Gr. B	Typical	.625	.184	.184	.368

Basic Load Cases

	BLC Description	Category	X Gravity	Y Gravity	Z Gravity	Joint	Point	Distributed	Area(Me	.Surface(Plate/Wall)
1	DL	DĽ	-	-1.05	-	32				, , ,
2	WLX	WLX				32		26		
3	WLZ	WLZ				32		30		
4	DLi	SL				32		26		
5	WLXi	OL1				32		26		
6	WLZi	OL2				32		26		
7	ELv	ELY		057		32				
8	ELh	EL	23		23	64				

Load Combinations

	Description	Sol	P	E	В	Fa	BLC	;F	B	Fa	.B	F	B	F	BLC	F	BLC	F	BLC	F	F	=	<u>F</u>
1	*LRFD																						
2	1.4D	Yes			1	1.4																	
3	1.2D+(WLX+WLZ) - 0 Deg	Yes			1	1.2	2	1	3														
4	1.2D+(WLX+WLZ) - 30 Deg	Yes	Υ		1	1.2	2	.8	3	.5													
5	1.2D+(WLX+WLZ) - 60 Deg	Yes	Υ		1	1.2	2	.5	3	.866													
6	1.2D+(WLX+WLZ) - 90 Deg	Yes	Υ		1	1.2	2		3	1													
7	1.2D+(WLX+WLZ) - 120 Deg	Yes			1	1.2	2	5	3	.866													
8	1.2D+(WLX+WLZ) - 150 Deg	Yes	Υ		1	1.2	2		3	.5													
9	1.2D+(WLX+WLZ) - 180 Deg	Yes	Υ		1	1.2	2	-1	3														
10	1.2D+(WLX+WLZ) - 210 Deg	Yes	Υ		1	1.2	2		3	5													
11	1.2D+(WLX+WLZ) - 240 Deg	Yes			1	1.2	2	5	3	8													
12	1.2D+(WLX+WLZ) - 270 Deg	Yes			1	1.2	2		3	-1													
13	1.2D+(WLX+WLZ) - 300 Deg	Yes	Υ		1	1.2	2	.5	3	8													
14	1.2D+(WLX+WLZ) - 330 Deg	Yes	Υ		1	1.2	2	8	3	5													
15	**Wind Load with Ice**																						
16	1.2D+1.0Di+1.0(WLXi+WLZi) - 0 Deg	Yes	Υ		1	1.2	4	1	5	1	6												
17	1.2D+1.0Di+1.0(WLXi+WLZi) - 30 Deg	Yes	Υ		1	1.2	4	1	5	.866	6	.5											
18	1.2D+1.0Di+1.0(WLXi+WLZi) - 60 Deg	Yes	Υ		1	1.2	4	1	5	.5	6	8											
19	1.2D+1.0Di+1.0(WLXi+WLZi) - 90 Deg	Yes	Υ		1	1.2	4	1	5		6	1											
20	1.2D+1.0Di+1.0(WLXi+WLZi) - 120 Deg	Yes	Υ		1	1.2	4	1	5	5	6	8											
21	1.2D+1.0Di+1.0(WLXi+WLZi) - 150 Deg	Yes	Υ		1	1.2	4	1	5	8	6	.5											
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg	Yes	Υ		1	1.2	4	1	5	-1	6												
23	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg	Yes			1	1.2	4	1	5	8	6	5											
24	1.2D+1.0Di+1.0(WLXi+WLZi) - 240 Deg				1	1.2	4	1	5	5	6												



Load Combinations (Continued)

	Description	Sol	P	B.	Fa.	BLC	F	В	Fa	.B	F	B	F I	BLC	F E	BLCI	F	BLC	F	I	=	F
25	1.2D+1.0Di+1.0(WLXi+WLZi) - 270 Deg	Yes	Υ	1	1.2	4	1	5		-	-1											
26	1.2D+1.0Di+1.0(WLXi+WLZi) - 300 Deg	Yes	Υ	1	1.2	4	1	5	.5	6												
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg	Yes	Υ	1	1.2	4	1	5	.866	6	5											
28	**Seismic Load**																					
29	1.2D+ELv+ELh	Yes	Υ	1	1.2	7	1	8	1													
30	*Ballast Check																					
31	0.6WLZ		Υ			3	.6															

Envelope AISC 15th(360-16): LRFD Steel Code Checks

_	Member	Shape	Code C.	Loc[ft]	LC S	Shear	Loc[ft]	Dir	LC	phi*Pnc [k]	phi*Pnt [k]	phi*Mn y	.phi*Mn z	Cb Eqn
1	M1	HSS2.375X0	.696	7.25	12	.172	14.5		3	4.679	32.4	1.925	1.925	3 H1-1b
2	M2	HSS2.375X0	.643	7.401	9	.077	9.969		3	4.679	32.4	1.925	1.925	2 H1-1b
3	M3	HSS2.375X0	.643	7.401	3	.077	9.969		9	4.679	32.4	1.925	1.925	2 H1-1b
4	M4	HSS2.375X0	.696	7.25	12	.172	14.5		9	4.679	32.4	1.925	1.925	3 H1-1b
5	M5	HSS2.375X0	.492	3.333	9	.159	.938		6	9.837	32.4	1.925	1.925	2 H1-1b
6	M6	HSS2.375X0	.276	0	3	.058	10		14	9.837	32.4	1.925	1.925	4 H1-1b
7	M7	HSS2.375X0	.060	0	9	.012	4.79		8	24.551	32.4	1.925	1.925	1H1-1b*
8	M8	HSS2.375X0	.060	0	3	.012	0		4	24.549	32.4	1.925	1.925	1H1-1b*
9	M9	HSS2.375X0	.174	1.354	9	.111	1.042		9	9.837	32.4	1.925	1.925	3 H1-1b
10	M10	HSS2.375X0	.148	10.147	12	.053	10.147		6	9.554	32.4	1.925	1.925	1H1-1b*
11	M11	HSS2.375X0	.148	10.147	12	.053	0		6	9.554	32.4	1.925	1.925	1H1-1b*
12	M12	HSS2.375X0	.245	5	9	.023	5		3	23.948	32.4	1.925	1.925	2 H1-1b
13	M13	HSS2.375X0	.246	5	3	.023	5		9	23.948	32.4	1.925	1.925	2 H1-1b
14	M14	HSS1.660X0	.074	4.34	3	.037	0		3	3.831	20.25	.824	.824	1 H1-1b
15	M15	HSS1.660X0	.075	4.34	8	.037	0		9	3.831	20.25	.824	.824	1 H1-1b
16	M17	L2.5x2.5x3	.078	0	12	.004	0	y	14	5.917	29.192	.873	1.699	2 H2-1
17	M19	L2.5x2.5x3	.077	7.45	12	.004	7.45	ý	10	5.917	29.192	.873	1.671	1 H2-1
18	M20	L2.5x2.5x3	.068	0	12	.002	0	y	13	5.917	29.192	.873	1.736	2 H2-1
19	M21	L2.5x2.5x3	.068	7.45	12	.002	7.45	ý	13	5.917	29.192	.873	1.742	2 H2-1
20	M59A	LL2.5x2.5x3x0	.118	7.45	13	.005	0	У	8	28.736	58.32	3.3	2.07	2 H1-1b
21	M60A	LL2.5x2.5x3x0	.118	0	11	.005	7.45	ý	4	28.736	58.32	3.3	2.07	2 H1-1b
22	M61	L2.5x2.5x3	.074	5	2	.002	0	У	2	3.284	29.192	.873	1.219	1 H2-1
23	M62	L2.5x2.5x3	.099	0	6	.020	0	ý	6	23.611	29.192	.873	1.972	1 H2-1
24	M63	L2.5x2.5x3	.103	2.55	6	.020	2.55	у	6	23.611	29.192	.873	1.972	1 H2-1
25	M64	L2.5x2.5x3	.084	5	2	.002	0	ý	2	3.284	29.192	.873	1.22	1 H2-1

Max member stresses do not exceed 69.6% of the 100% allowable capacity. Therefore, the proposed members are adequate to support the proposed installation.



Load Combinations

	Description	Sol	P	E	3	Fa	BLC	; <u>F</u>	B	Fa	<u>.B</u>	F	B	F	BLC	F	BLC	F	BLC	F		F,	<u>F</u>
1	*LRFD																						
2	1.4D		Y			1.4																	
3	1.2D+(WLX+WLZ) - 0 Deg		Υ			1.2		1	3														
4	1.2D+(WLX+WLZ) - 30 Deg		Y		1	1.2	2	8		.5													
5	1.2D+(WLX+WLZ) - 60 Deg		Y		1	1.2	2	.5	3	.866													
6	1.2D+(WLX+WLZ) - 90 Deg		Y		1	1.2	2		3	1													
7	1.2D+(WLX+WLZ) - 120 Deg		Υ		1	1.2	2	5		.866													
8	1.2D+(WLX+WLZ) - 150 Deg		Y		1	1.2	2		3	.5													
9	1.2D+(WLX+WLZ) - 180 Deg		Y		1	1.2	2	-1	3														
10	1.2D+(WLX+WLZ) - 210 Deg		Y		1	1.2	2		3	5													
11	1.2D+(WLX+WLZ) - 240 Deg		Y		1	1.2	2	5	3	8													
12	1.2D+(WLX+WLZ) - 270 Deg		Υ		1	1.2	2		3	-1													
13	1.2D+(WLX+WLZ) - 300 Deg		Υ		1	1.2	2	.5	3	8													
14	1.2D+(WLX+WLZ) - 330 Deg		×		1	1.2	2	8	3	5													
15	**Wind Load with Ice**																						
16	1.2D+1.0Di+1.0(WLXi+WLZi) - 0 Deg		Y		1	1.2	4	1	5	1	6												
17	1.2D+1.0Di+1.0(WLXi+WLZi) - 30 Deg		Y		1	1.2	4	1	5	.866	6	.5											
18	1.2D+1.0Di+1.0(WLXi+WLZi) - 60 Deg		Y		1	1.2	4	1	5	.5	6	8											
19	1.2D+1.0Di+1.0(WLXi+WLZi) - 90 Deg		Y		1	1.2	4	1	5		6	1											
20	1.2D+1.0Di+1.0(WLXi+WLZi) - 120 Deg		Υ		1	1.2	4	1	5	5	6	8											
21	1.2D+1.0Di+1.0(WLXi+WLZi) - 150 Deg		Υ		1	1.2	4	1	5	8	6	.5											
22	1.2D+1.0Di+1.0(WLXi+WLZi) - 180 Deg		Υ		1	1.2	4	1	5	-1	6												
23	1.2D+1.0Di+1.0(WLXi+WLZi) - 210 Deg		Υ		1	1.2	4	1	5	8	6	5											
24	1.2D+1.0Di+1.0(WLXi+WLZi) - 240 Deg		Υ		1	1.2	4	1	5	5	6												
25	1.2D+1.0Di+1.0(WLXi+WLZi) - 270 Deg		Υ		1	1.2	4	1	5		6	-1											
26	1.2D+1.0Di+1.0(WLXi+WLZi) - 300 Deg		Υ		1	1.2	4	1	5	.5	6												
27	1.2D+1.0Di+1.0(WLXi+WLZi) - 330 Deg		Υ		1	1.2	4	1		.866	6	5									\square		
28	**Seismic Load**																						
29	1.2D+ELv+ELh		Υ		1	1.2	7	1	8	1													
30	*Ballast Check																						
31	0.6WLZ	Yes	Υ				3	.6															

Joint Reactions

	LC	Joint Label	X [k]	Y [k]	Z [k]	MX [k-ft]	MY [k-ft]	MZ [k-ft]
1	31	FRONT4	069	.162	197	Ō	Ō	Ō
2	31	FRONT1	.07	.16	186	0	0	0
3	31	FRONT3	0	.292	139	0	0	0
4	31	FRONT2	0	.284	123	0	0	0
5	31	N131	283	451	329	0	0	0
6	31	N132	.282	446	323	0	0	0
7	31 /	COG (ft):	NC	NC	NC			
		()				•	•	

Reactions used to check ballast versus sliding and overturning

September 8, 2020

APPENDIX J – Sector C

ADDITIONAL CALCULATIONS

							Job No. 1 Sheet No. Calculated By Checked By	0272.13 1 JL	of Date : Date :	1 09/10/20
		BALLAST	MOUNT	HECK						
Wind Force Per Rev H (qz):	37.4	7 PSF]							
			8x8x16 Block		Tray Total					
Tray-1	4	CMU-1	43	lbs	172	lbs	1			
Tray-2	4	CMU-1	43	lbs	172	lbs				
Tray-3	4	CMU-1	43	lbs	172	lbs				
Additional Tray-4	10	CMU-2		lbs Total	430 946	lbs lbs				
Intenna Wind Loads:						•				
uantity	Model Number	Weight (lbs)	Dead Load							
2	MX10FRO860-xx	68.4	137	lbs	1					
1	CBRS 4T4R RRH	17.6	18	lbs	1					
1	B2/B66A RRH	40.4	40	lbs	1					
1	B5/B13 RRH	40.4	40	lbs	4					
1	6 Circuit OVP	43.5	44	lbs	4					
		Wt. Total	293		1					
Mount Wind Loads:		E1	rame Dimensio	ets, cables, etc)						
Nount wind Loads.		Length	10.00	ft						
Member Summary:		Width	10.00	π						
Quantity	Part No.	Size (in)	Length (ft)	Unit Weight (lbs)	Net Weight (lb					
	2 P2174 (Antenna Pipe)	2.375	14.50	55.75	112	lbs	-			
	2 P2174 (Antenna Pipe)	2.375	8.50	32.68	65	lbs	-			
	2 P1126 (Stiff Arm)	1.66 2.375	10.50 10.50	25.12	50	lbs	-			
	3 P2126 (Horizontal) 4 P263 (Brace)	2.375	5.25	40.75 20.18	122 81	lbs lbs	-			
	3 X-232696 (Tray)	2.575	7.45	66.53	200	lbs	-			
	2 X-RTP10 (Tray Support)	-	-	44.81	90	lbs				
	6 UNT10 (Unistrut)	-	Varies	20.38	122	lbs	1			
	4 L2-1/2"x2-1/2"x3/16"	2.5	10.00	32.235	129	lbs	1			
69	0 Other (Clamps, Bolts, Nuts, Washers, Etc.)	-	-	Varies	140	lbs]			
		Frame Weight Total		lbs (Excludes Equipm	ient)					
Sliding Check:		Frame Weight For MR	777	lbs						
	I	Horizontal Wind Force Total:								
	FS	Resisting Force:		≥ 1.2 OK	Friction Coeff:	0.7	Rubber mat t	o root		
Overturn Check:		Overturn moment	8970.0	lb-ft (Per RISA-3D Ou	tput LC31)					
		Direction 1								
		Base	5.00							
		CMU-1	3.73							
		CMU-2	9.25	ft						
		Resisting Moment	10842.2							
inal Roof Pressure:		FS	1.21	≥ 1.2 OK						
		L	11.00	ft						
		Ŵ	11.00							
		Area	121.00	ft^2						
		Total Weight	2350	lbs						
			19.4	psf					-	
	THE SAFETY FACTORS AGAINST THE FINAL ROOF PRESSUR SUPPORTING ST		ALLOWAE	BLE 20 PSF. THE	REFORE, TH	IE BALLAS	T MOUNT AN]	

APPENDIX K

REFERENCES

Rooftop Mount Structural Analysis Project Number: 10272.13 September 8, 2020



ASCE 7 Hazards Report

Address: 29 E Main St Amsterdam, New York 12010 Standard:ASCE/SEI 7-16Risk Category:IISoil Class:D - Stiff Soil

 Elevation:
 279.41 ft (NAVD 88)

 Latitude:
 42.936985

 Longitude:
 -74.193636



Wind

Results:	
Wind Speed:	110 Vmph
10-year MRI	75 Vmph
25-year MRI	81 Vmph
50-year MRI	87 Vmph
100-year MRI	93 Vmph
Data Source:	ASCE/SEI 7-16, Fig. 26.5-1B and Figs. CC.2-1–CC.2-4
Date Accessed:	Thu Sep 03 2020

Value provided is 3-second gust wind speeds at 33 ft above ground for Exposure C Category, based on linear interpolation between contours. Wind speeds are interpolated in accordance with the 7-16 Standard. Wind speeds correspond to approximately a 7% probability of exceedance in 50 years (annual exceedance probability = 0.00143, MRI = 700 years).

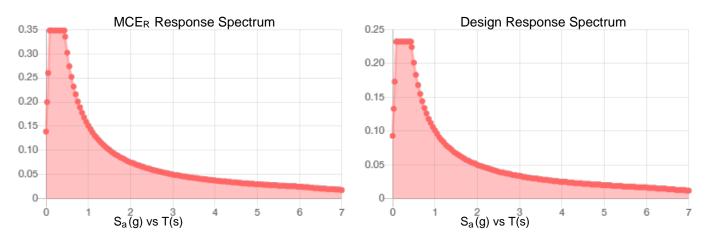
Site is not in a hurricane-prone region as defined in ASCE/SEI 7-16 Section 26.2.

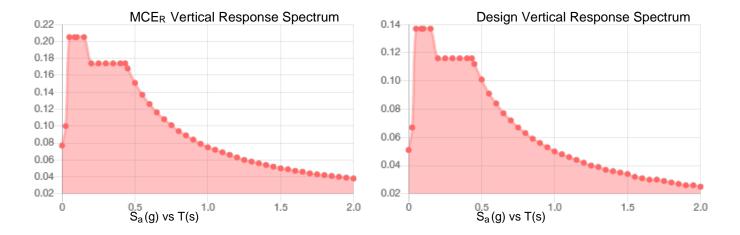
Mountainous terrain, gorges, ocean promontories, and special wind regions should be examined for unusual wind conditions.



Seismic

Site Soil Class:	D - Stiff Soil		
Results:			
S _s :	0.218	S _{D1} :	0.101
S ₁ :	0.063	T _L :	6
F _a :	1.6	PGA :	0.12
F _v :	2.4	PGA M:	0.188
S _{MS} :	0.348	F _{PGA} :	1.559
S _{M1} :	0.151	l _e :	1
S _{DS} :	0.232	C, :	0.735
Seismic Design Catego	ry B		





Data Accessed: Date Source:

Thu Sep 03 2020 USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.



lce

Results:

Data	Data Source:		d ASCE/SEI 7-16, Figs. 10-2 through 10-8
	Gust Speed:	40 mph	
	Concurrent Temperature:	5 F	
	Ice Thickness:	1.00 in.	

Date Accessed:

Thu Sep 03 2020

Ice thicknesses on structures in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Values provided are equivalent radial ice thicknesses due to freezing rain with concurrent 3-second gust speeds, for a 500-year mean recurrence interval, and temperatures concurrent with ice thicknesses due to freezing rain. Thicknesses for ice accretions caused by other sources shall be obtained from local meteorological studies. Ice thicknesses in exposed locations at elevations higher than the surrounding terrain and in valleys and gorges may exceed the mapped values.

Snow

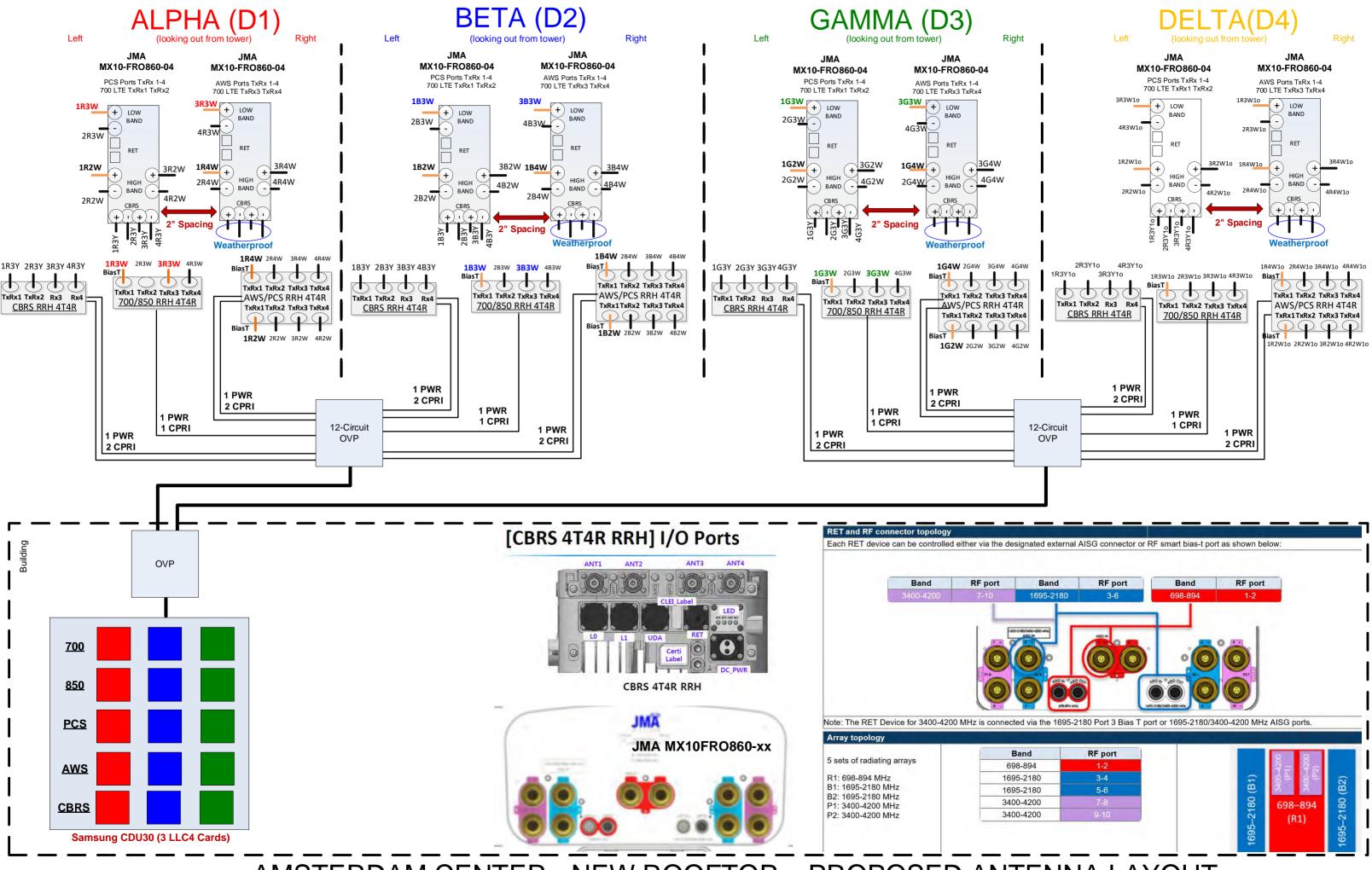
Results:		
Ground Snow L	.oad, p _a : 40 lb/ft ²	
Elevation:	279.4 ft	
Data Source:	ASCE/SEI 7-16, T	able 7.2-8
Date Accessed:	Thu Sep 03 2020	
	required," extreme	re ground snow loads. In areas designated "case study local variations in ground snow loads preclude mapping at ecific case studies are required to establish ground snow s not covered.



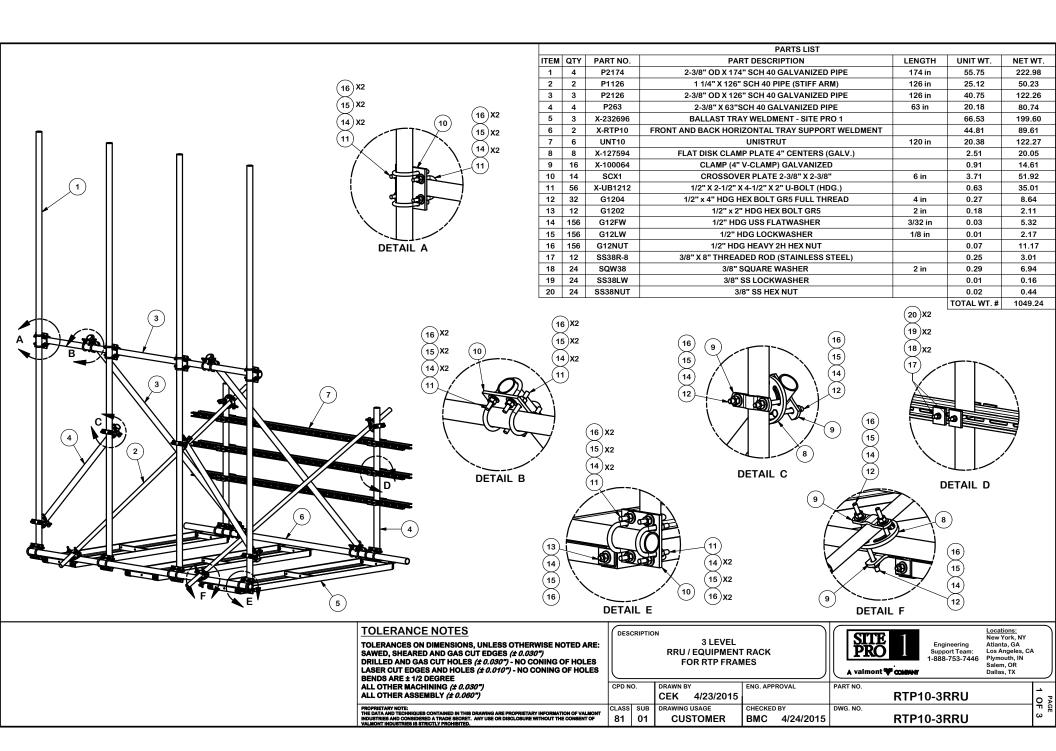
The ASCE 7 Hazard Tool is provided for your convenience, for informational purposes only, and is provided "as is" and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE 7 standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

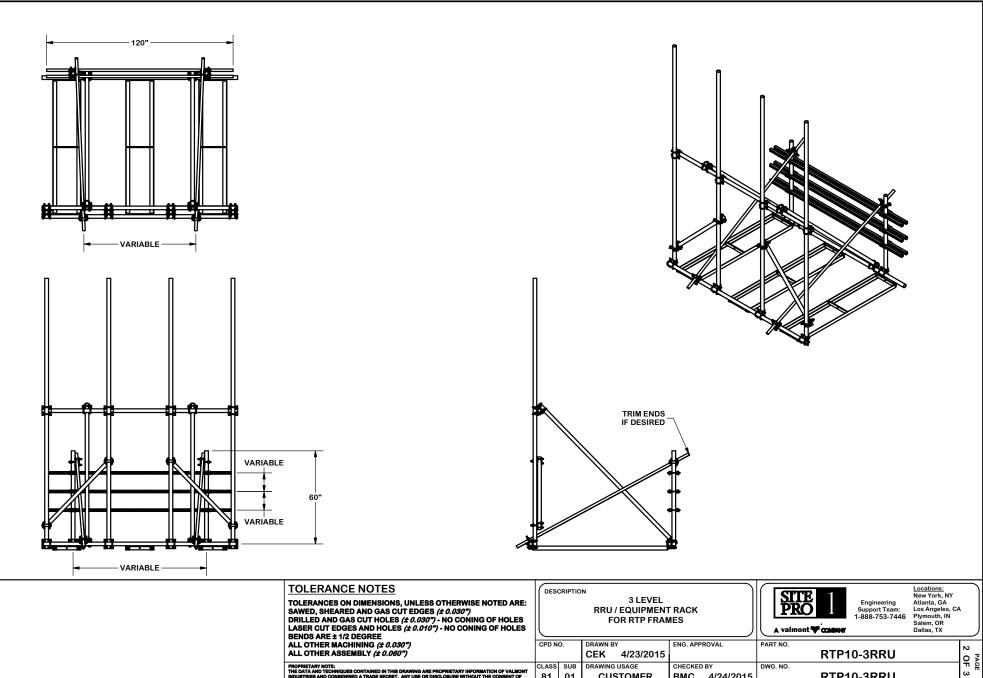
ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE 7 standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE 7 Hazard Tool.



AMSTERDAM CENTER - NEW ROOFTOP - PROPOSED ANTENNA LAYOUT





CUSTOMER

BMC 4/24/2015

RTP10-3RRU

PROPRIETARY NOTE: THE DATA AND TECHNIQUES CONTAINED IN THIS DRAWING ARE PROPRIETARY INFORMATION OF VALMONT INDUSTRIES AND CONSIDERED A TRADE SECRET. ANY USE OR DISCLOSURE WITHOUT THE CONSENT OF VALMONT INDUSTRIES IS STRUCTLY PROHIBITED. 81 01



Date: September 17, 2020

Structural Opinion Letter

Project Information:	
Carrier:	Verizon Wireless
Scope of Work:	"New Site Build"
Site Name:	Amsterdam Center
Site Address:	29 East Main Street, Amsterdam, NY 12010
Site Type:	Rooftop Equipment Shelter
Tectonic Project Number: RE Project Number:	10272.13 20161493464
	20101400404

Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C. is pleased to submit this **"Structural Opinion Letter"** to determine the structural integrity of the existing shelter of the abovementioned rooftop telecommunication site.

A limited visual inspection of the existing site was performed on February 13, 2020. In addition, the following information was provided for this assessment:

• Lease Exhibit Drawings by Tectonic Engineering Consultants, Geologists & Land Surveyors, D.P.C., dated 06/19/20.

Based on the above information, the final equipment configuration upon this installation will be as follows:

Mounting Level (ft)	Carrier Designation	Quantity	Equipment Type	Design Weight (lbs)	Note		
	Verizon Wireless	2	Equipment Rack	2000			
		2	Battery Rack	8000	1		
107		1	Fiber Rack	200	I		
				1	Power Plant	1000	
		6	Total	11,200	2		

Table 1 - Proposed Platform Equipment Information

Notes:

1) To be mounted in existing shelter

2) Total equipment quantity and weight.

Based on our review, the proposed installation inside the existing equipment shelter is less than total allowable load of 150 psf as well as no change of wind area. Therefore, the existing equipment shelter and building structure will have adequate capacity for the proposed Verizon Wireless installation.

This structural assessment is solely based on the information provided in the documents referenced above. This assessment also assumes that the equipment and building were designed, fabricated, and constructed in accordance with the approved construction drawings.

Project Contact Info

1279 Route 300 | Newburgh, NY 12550 845.567.6656 Tel | 845.567.8703 Fax

tectonicengineering.com Equal Opportunity Employer





The contractor shall field verify existing conditions and notify the design engineer of any discrepancies prior to installation of the proposed upgrade. Any further changes to the equipment or other appurtenance's configuration should be reviewed with respect to their effect on structural loads prior to implementation.

Should you have any questions, please do not hesitate to contact us.

Sincerely, Tectonic Engineering Consultants, Geologists, and Land Surveyors D.P.C.,

Edward N. Iamiceli, P.E. Managing Director – Structural







SITE NAME: AMSTERDAM CENTER

RE PROJECT NUMBER: 20161493464 LOCATION CODE: 429735

SITE ADDRESS:	27—31 MAIN S AMSTERDAM, N
MUNICIPALITY:	CITY OF AMSTE
COUNTY:	MONTGOMERY
TAX MAP NUMBER:	55.43-1-3
ZONING DISTRICT:	DOWNTOWN CO
STRUCTURE COORDINATES:	42.936698°
GROUND ELEVATION:	281'± AMSL
PROPERTY OWNER:	CRANESVILLE P 1250 RIVERFRO AMSTERDAM, N
APPLICANT:	VERIZON WIREL 1275 JOHN STF WEST HENRIETT
CONTACT PERSON:	KATHY POMPON
CONTACT PHONE:	(585) 321–543

ION THE PROPOSED WORK CONSISTS OF INSTALLING AND RELATED EQUIPMENT ON AN EXISTING BUILD

APPLICANT:
CONTACT PERSON: CONTACT PHONE:
PROJECT SUMMARY
PROJECT DESCRIPT

H&R Bloc

Baldwin Research Ir

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Billards Pub

The Book Hound

mporarily closed

Amsterdam

Gilios Restaurant suppl

United States Postal Service

VICINITY MAP

DIRECTIONS

DIRECTIONS TO SITE:

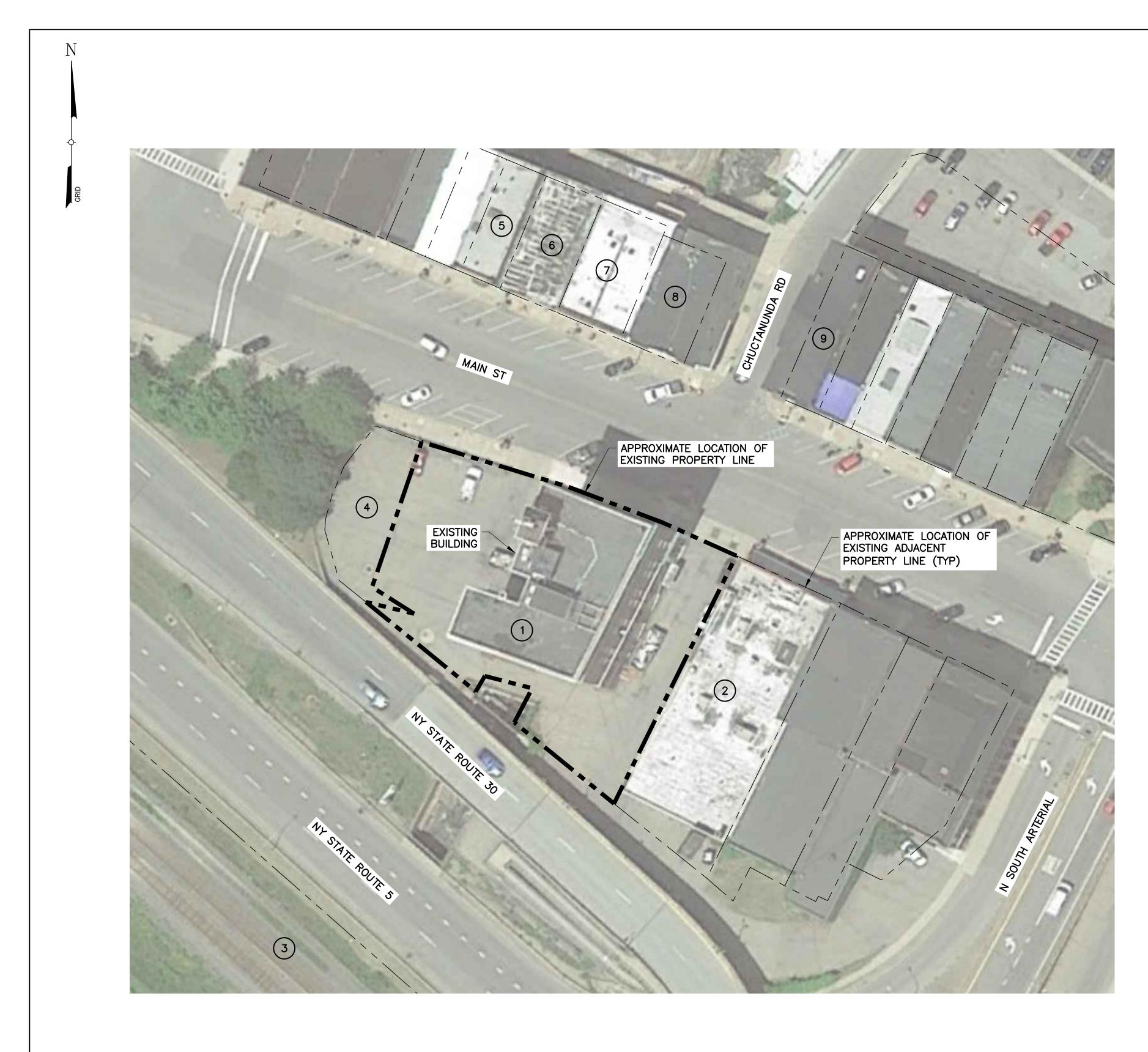
FROM NORTH GREENBUSH,

TAKE US-4 S AND FOLLOW FOR 1.5± MILES. TURN RIGHT ONTO NY-43 W AND FOLLOW FOR 1.1± MILES. KEEP RIGHT AT FORK AND MERGE ONTO I-90 W AND FOLLOW FOR 25.5± MILES. TAKE EXIT 27 FOR NY-30 N AND FOLLOW FOR 0.8± MILES. TURN LEFT ONTO MAIN ST AND FOLLOW FOR 292± FEET. SITE WILL BE ON THE LEFT.

CELLCO PARTNERSHIP, d/b/a verizon

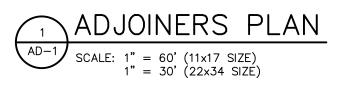
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CORE	-	AD-1	ADJOINERS PLAN	1	11/4/20	
	F	C-1	OVERALL SITE PLAN	1	11/4/20	
	F	C-2	ROOF PLAN	1	11/4/20	
_	-	C-3	BUILDING ELEVATION	1	11/4/20	
E PROPERTIES, L.L.C. FRONT CENTER I, NY 12010 RELESS	-					
STREET, SUITE 100 IETTA, NY 14586	-					
PONIO	-					
5435						
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	F					Before You Dig, Drill Or Blast!
	F					
CELLULAR ANTENNAS DING.						Dig Safely. New York
	-					PROTECTIVE ORGANIZATION
	F					CALL US TOLL FREE 1-800-962-7962 NY industrial code rule 753 requires no less than two
	F					working days notice, but not more than ten days notice.
	-					DIG SAFELY – NEW YORK
	Ļ					
						DO NOT SCALE DRAWINGS
		SH	EET INDEX			THESE DRAWINGS ARE FORMATTED FOR 22"x34" FULL SIZE AND 11"x
		UNTII	SET OF PLANS SHALL NOT BE UTILIZED AS CONSTRUCT L ALL ITEMS OF CONCERN HAVE BEEN ADDRESSED AND WINGS HAS BEEN REVISED AND ISSUED "FOR CONSTRUCT	EACH C	CUMENTS OF THE	HALF SIZE. OTHER SIZED VERSIONS ARE NOT PRINTED TO THE SCALE SHOWN. CONTRACTOR SHALL VERIFY ALL PLANS, EXISTING DIMENSION & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING W THE WORK OR BE RESPONSIBLE FOR SAME.

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1275 JOHN STREET, SUITE 100 WEST HENRIETTA, NY 14586						
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		UTIONS. EXCEPTIONAL				
70 Ple	easant Hill Road	ultants, Geologists & L Phone	e: (845) 534–5959			
Mounte	Box 37 ainville, NY 1095 Contact Info	53 www.tect	(800) 829–6531 onicengineering.com			
36 Bri Suite	itish American B		e: (518) 783–1630			
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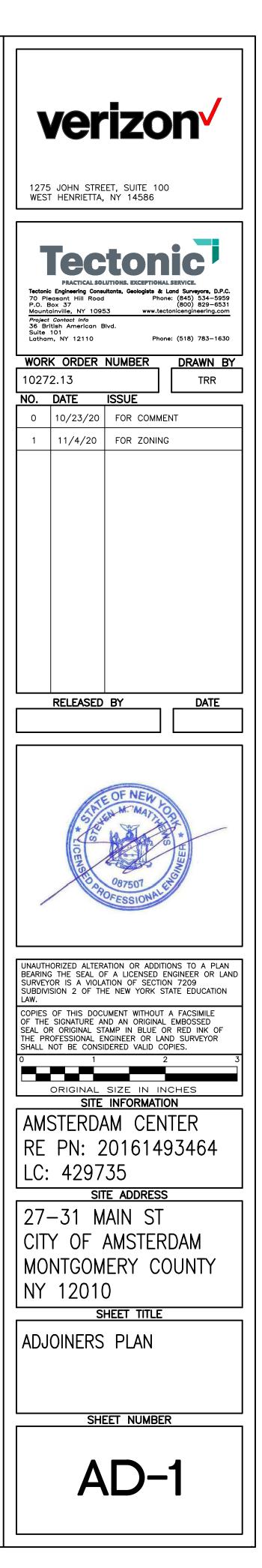
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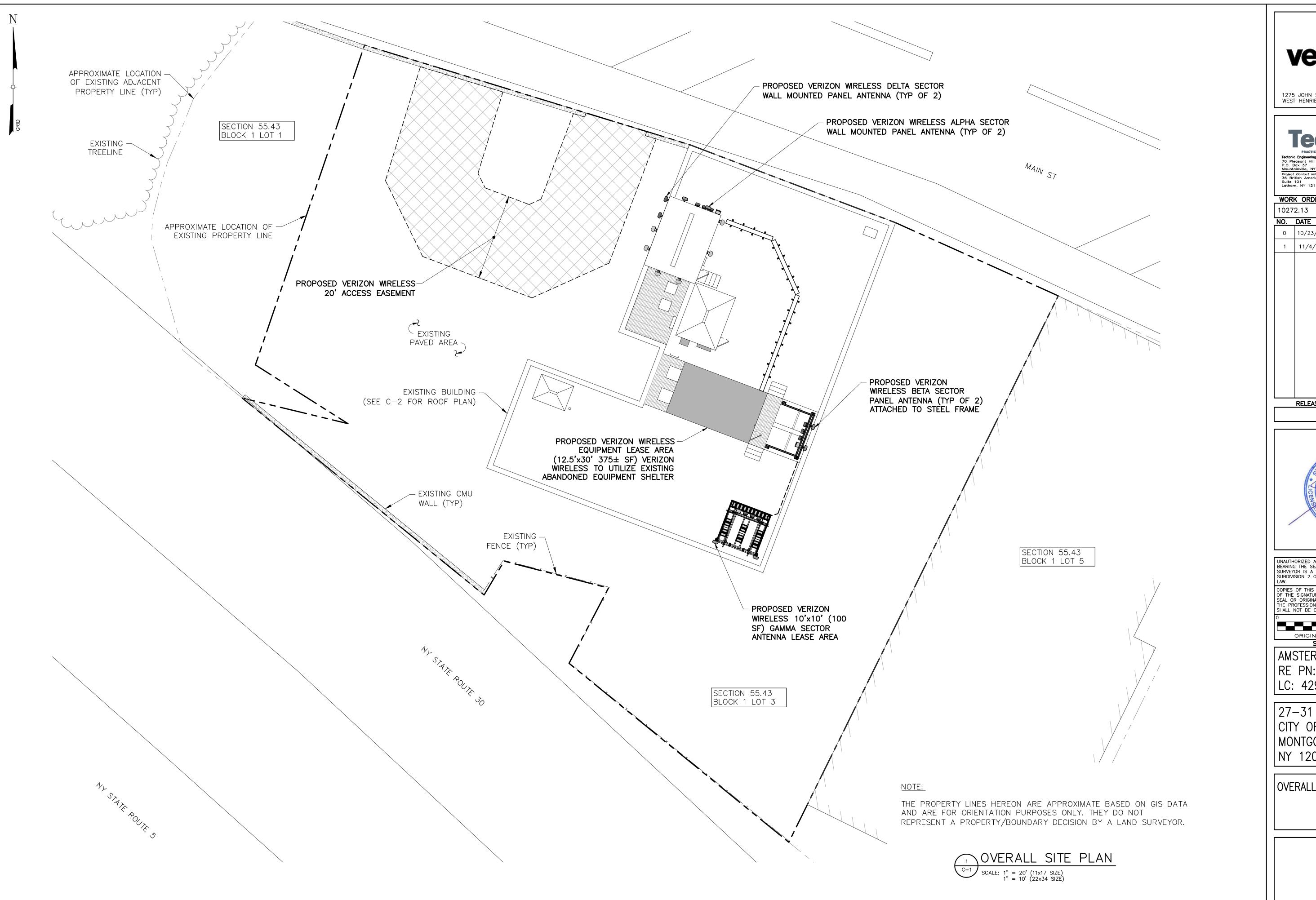
THE PROPERTY LINES HEREON ARE APPROXIMATE BASED ON GIS DATA AND ARE FOR ORIENTATION PURPOSES ONLY. THEY DO NOT REPRESENT A PROPERTY/BOUNDARY DECISION BY A LAND SURVEYOR.



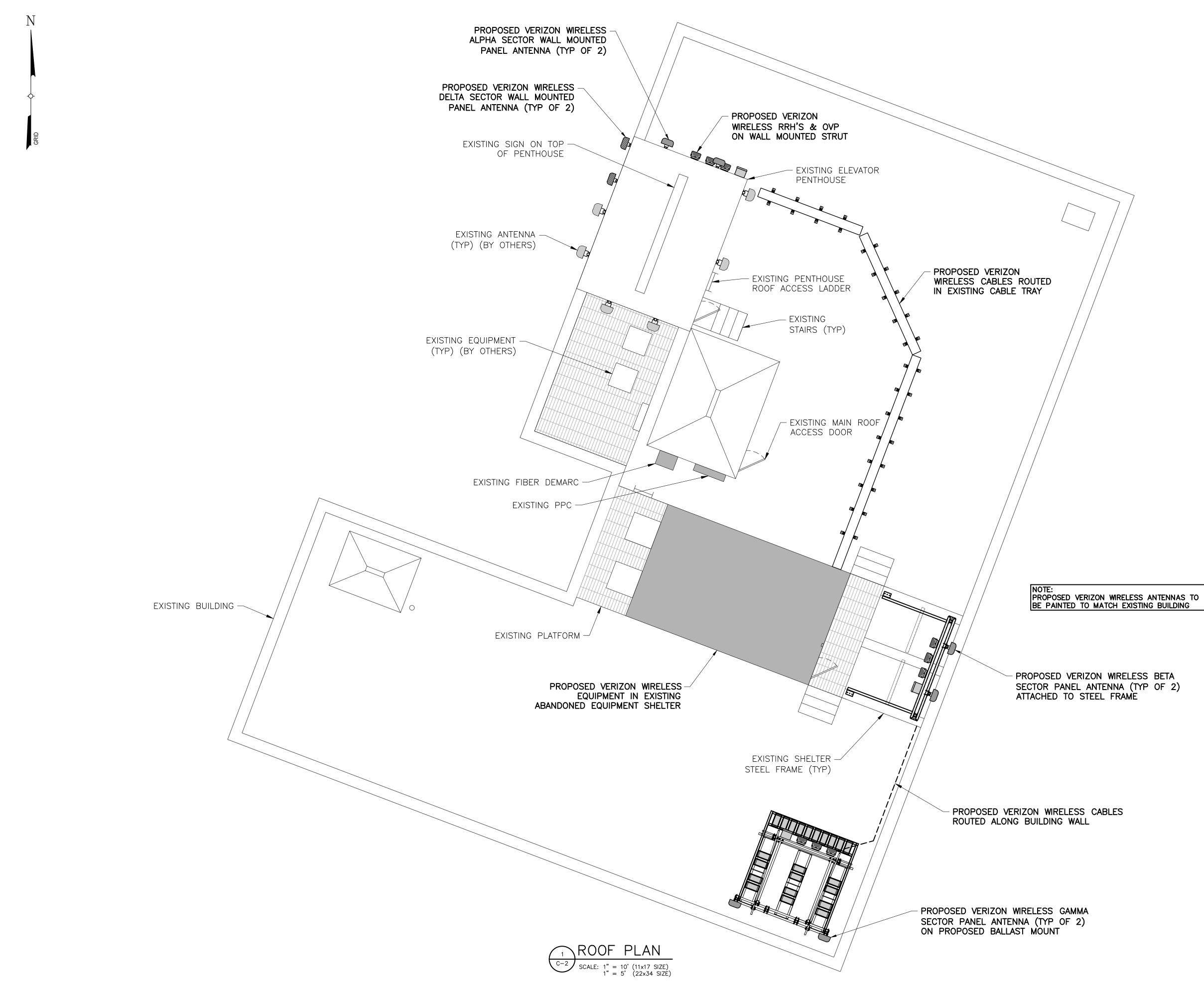
ID	SBL	OWNER	ADDRESS	CITY/STATE	ZIP
1	55.43-1-3	CRANESVILLE PROPERTIES L.L.C.	1250 RIVERFRONT CENTER	AMSTERDAM, NY	12010
2	55.43-1-5	55.43-1-5 TJB LEGACY LLC		CLIFTON PARK, NY	12065
3	55.43-1-10.1	NY CENTRAL LINES LLC	500 WATER STREET {C910}	JACKSONVILLE, FL	32202
4	55.43-1-1	CITY OF AMSTERDAM	61 CHURCH ST	AMSTERDAM, NY	12010
5	55.35-1-49	KUO MARK	16 MAIN ST	AMSTERDAM, NY	12010
6	55.35-1-48	CITY OF AMSTERDAM	61 CHURCH ST	AMSTERDAM, NY	12010
7	55.35-1-47	AIDA	61 CHURCH ST	AMSTERDAM, NY	12010
8	55.35-1-46	AIDA	61 CHURCH ST	AMSTERDAM, NY	12010
9	55.35-1-43	GURME UTTAM S	9 MILAN CT	SCHENECTADY, NY	12309







1275 JOHN STREET, SUITE 100 WEST HENRIETTA, NY 14586					
70 Ple P.O. B Mounto Project 36 Bri Suite Lathan	Engineering Consistant Hill Road lox 37 sinville, NY 1095 Contact Info tish American E 101 n, NY 12110 CORDER	LUTIONS. EXCEPTION ultants, Geologists & Pho 5.3 www.ter Blvd. Pho	Land Surveyors, D.P.C. ne: (845) 534-5959 (800) 829-6531 ctonicengineering.com ne: (518) 783-1630 DRAWN BY		
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PROPOSED VERIZON WIRELESS EQUIPMENT IN -EXISTING ABANDONED EQUIPMENT SHELTER

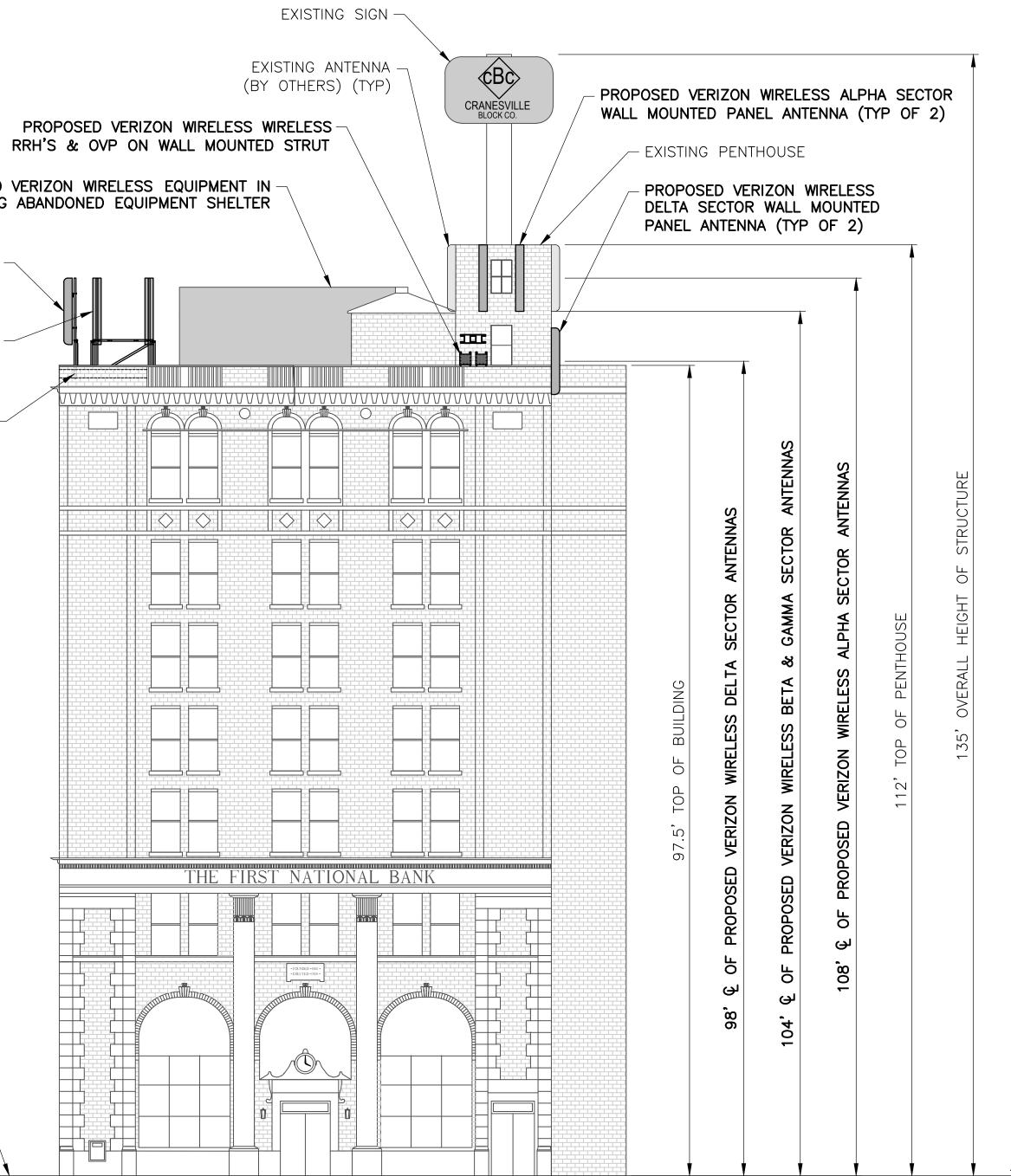
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SECTOR PANEL ANTENNA (TYP OF 2) ON PROPOSED BALLAST MOUNT (BEYOND)

EXISTING -STEEL FRAME

NOTE: PROPOSED VERIZON WIRELESS ANTENNAS TO BE PAINTED TO MATCH EXISTING BUILDING

EXISTING GRADE -



BUILDING ELEVATION C-3

SCALE: 1" = 20' (11x17 SIZE) 1" = 10' (22x34 SIZE)

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SITE NAME: AMSTERDAM CENTER

RE PROJECT NUMBER: 20161493464 LOCATION CODE: 429735

SITE ADDRESS:	27—31 MAIN S AMSTERDAM, N
MUNICIPALITY:	CITY OF AMSTE
COUNTY:	MONTGOMERY
TAX MAP NUMBER:	55.43-1-3
ZONING DISTRICT:	DOWNTOWN COP
STRUCTURE COORDINATES:	42.936698°
GROUND ELEVATION:	281'± AMSL
PROPERTY OWNER:	CRANESVILLE P 1250 RIVERFRO AMSTERDAM, N
APPLICANT:	VERIZON WIREL 1275 JOHN STF WEST HENRIETT
CONTACT PERSON:	KATHY POMPON
CONTACT PHONE:	(585) 321–543

PROJECT SUMMARY

PROJECT DESCRIPTION THE PROPOSED WORK CONSISTS OF INSTALLING AND RELATED EQUIPMENT ON AN EXISTING BUILD



DIRECTIONS

DIRECTIONS TO SITE:

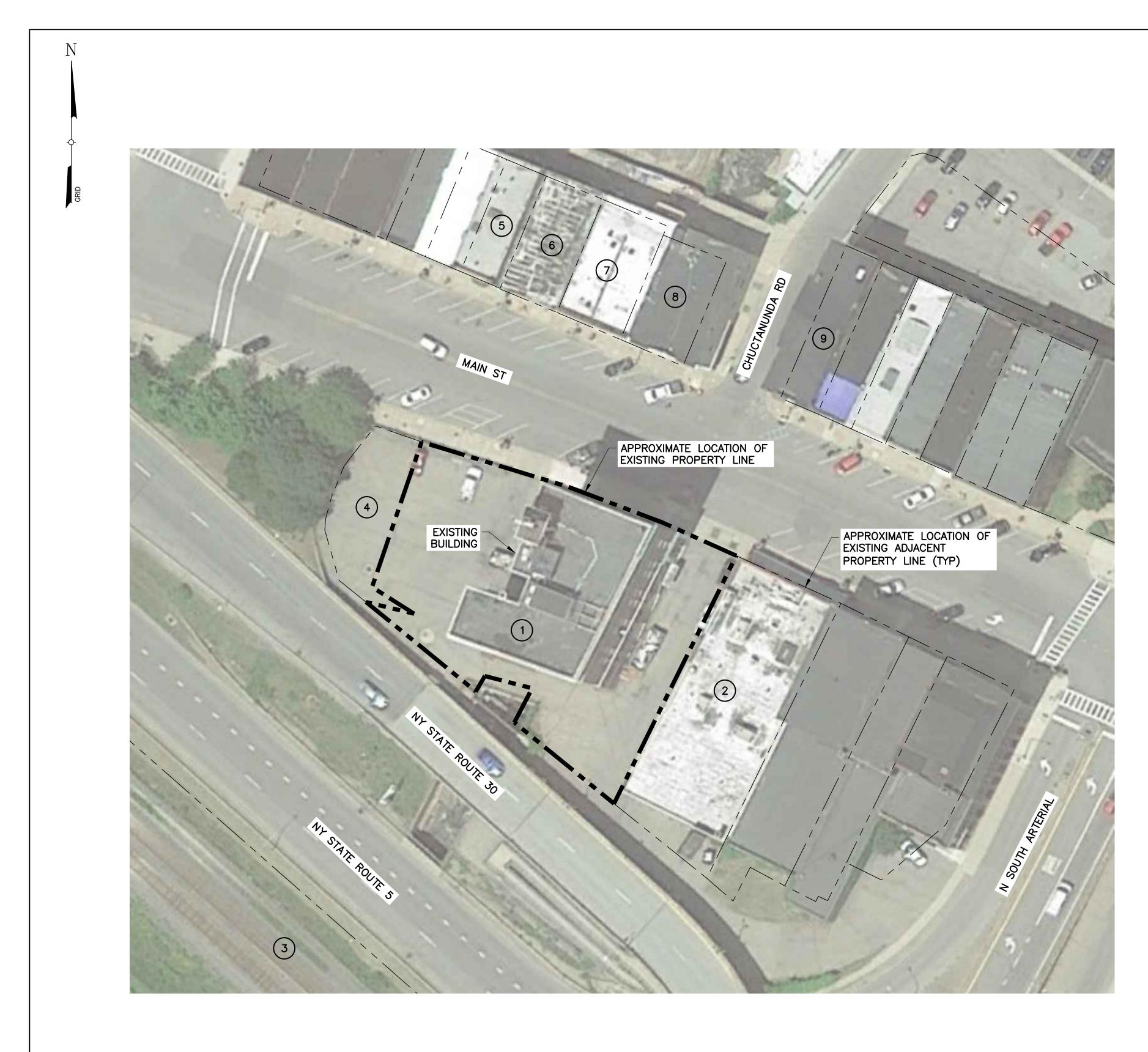
FROM NORTH GREENBUSH,

TAKE US-4 S AND FOLLOW FOR 1.5± MILES. TURN RIGHT ONTO NY-43 W AND FOLLOW FOR 1.1± MILES. KEEP RIGHT AT FORK AND MERGE ONTO I-90 W AND FOLLOW FOR 25.5± MILES. TAKE EXIT 27 FOR NY-30 N AND FOLLOW FOR 0.8± MILES. TURN LEFT ONTO MAIN ST AND FOLLOW FOR 292± FEET. SITE WILL BE ON THE LEFT.

CELLCO PARTNERSHIP, d/b/a verizon

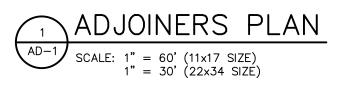
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						Before You Dig, Drill Or Blast!
CELLULAR ANTENNAS DING.						Dig Safely. New York
						PROTECTIVE ORGANIZATION
						CALL US TOLL FREE 1-800-962-7962 NY industrial code rule 753 requires no less than two
						working days notice, but not more than ten days notice.
						DIG SAFELY – NEW YORK
						DO NOT SCALE DRAWINGS
		SHE	EET INDEX			THESE DRAWINGS ARE FORMATTED FOR 22"x34" FULL SIZE AND 11"x17
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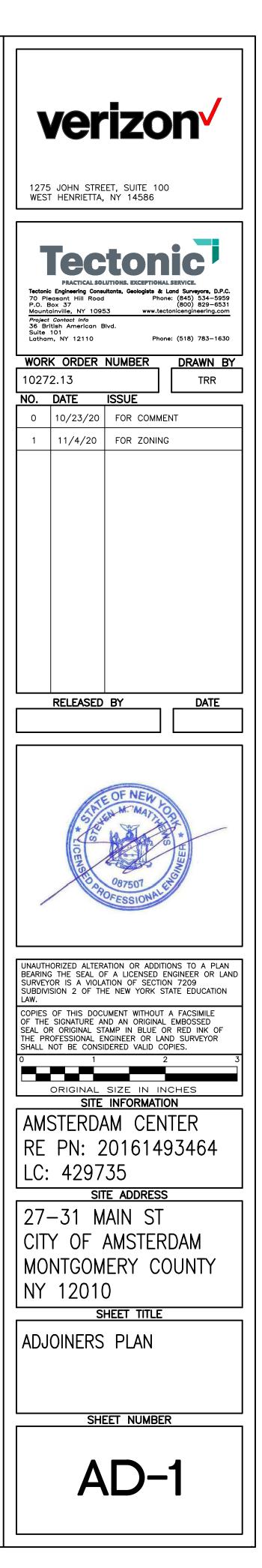
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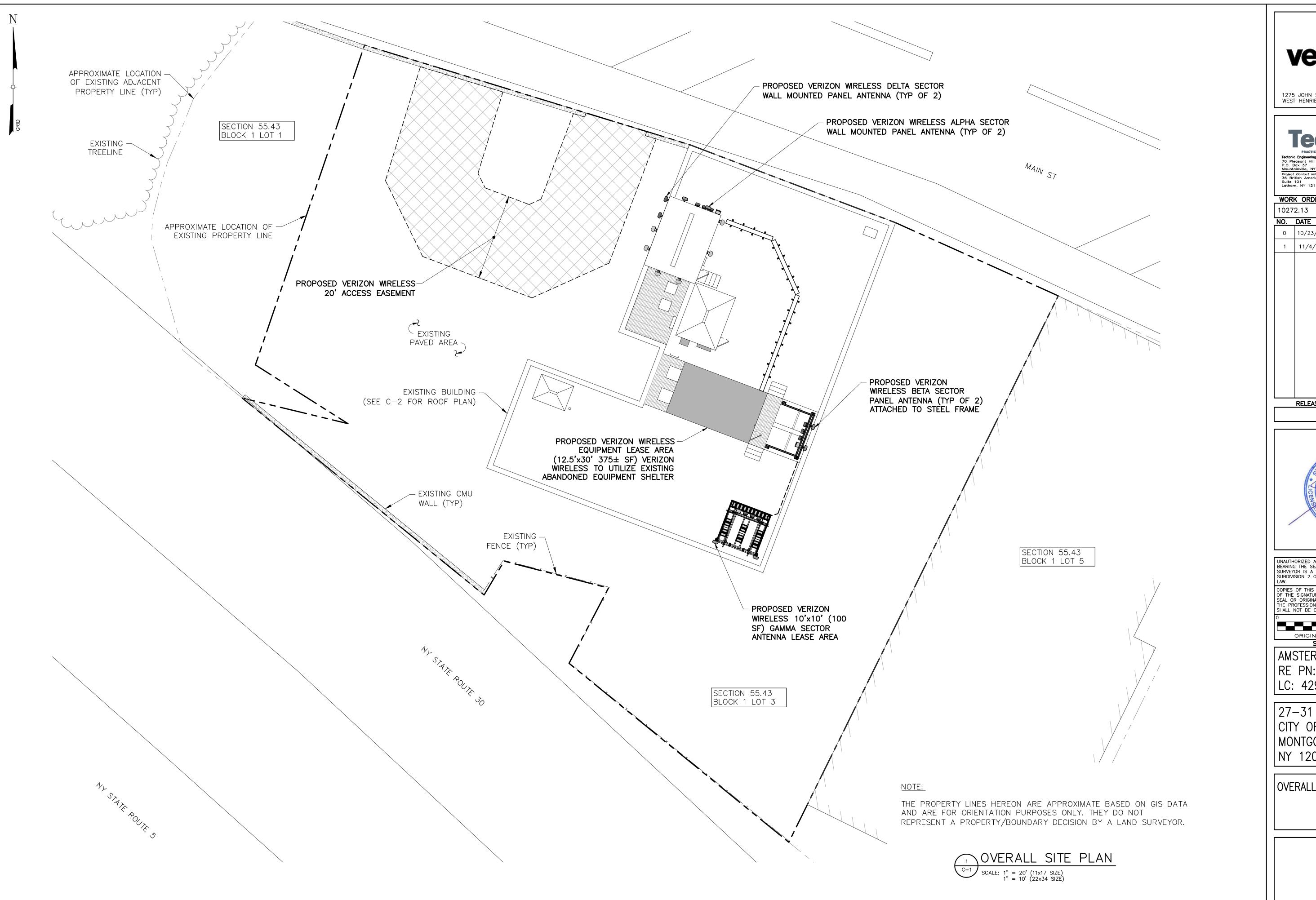
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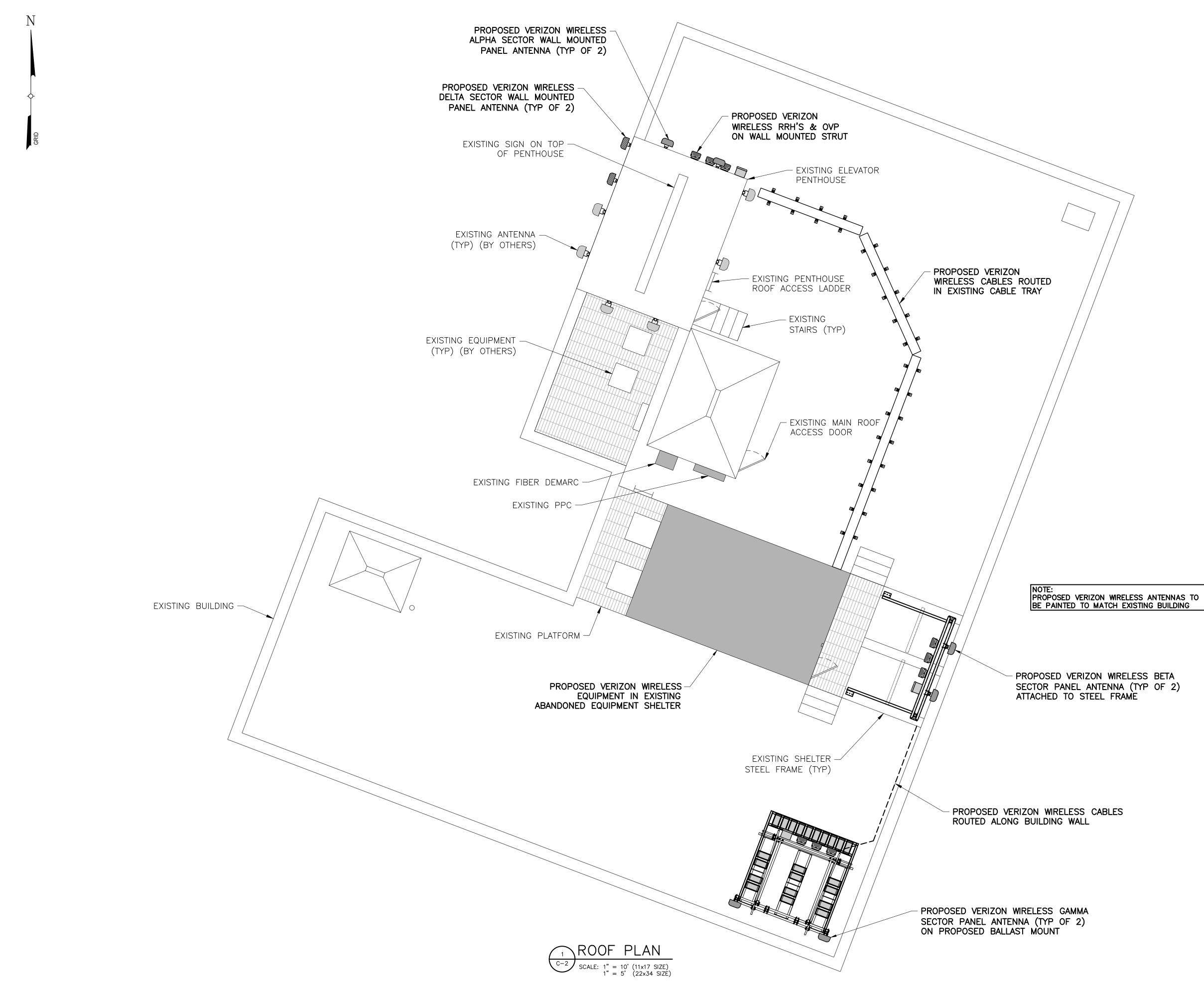
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1	55.43-1-3	CRANESVILLE PROPERTIES L.L.C.	1250 RIVERFRONT CENTER	AMSTERDAM, NY	12010
2	55.43-1-5	TJB LEGACY LLC	54 CEMETERY RD	CLIFTON PARK, NY	12065
3	55.43-1-10.1	NY CENTRAL LINES LLC	500 WATER STREET {C910}	JACKSONVILLE, FL	32202
4	55.43-1-1	CITY OF AMSTERDAM	61 CHURCH ST	AMSTERDAM, NY	12010
5	55.35-1-49	KUO MARK	16 MAIN ST	AMSTERDAM, NY	12010
6	55.35-1-48	CITY OF AMSTERDAM	61 CHURCH ST	AMSTERDAM, NY	12010
7	55.35-1-47	AIDA	61 CHURCH ST	AMSTERDAM, NY	12010
8	55.35-1-46	AIDA	61 CHURCH ST	AMSTERDAM, NY	12010
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Technic Engineering Consultants, Geologists & Land Surveyors, D.P.C. Mantainville, NY 10953 Phone: (845) 534-5959 (800) 829-6531 Project Contact Info 36 British American Bivd. Suite 101 Latham, NY 12110 www.tectonicengineering.com WORK ORDER NUMBER DRAWN BY			
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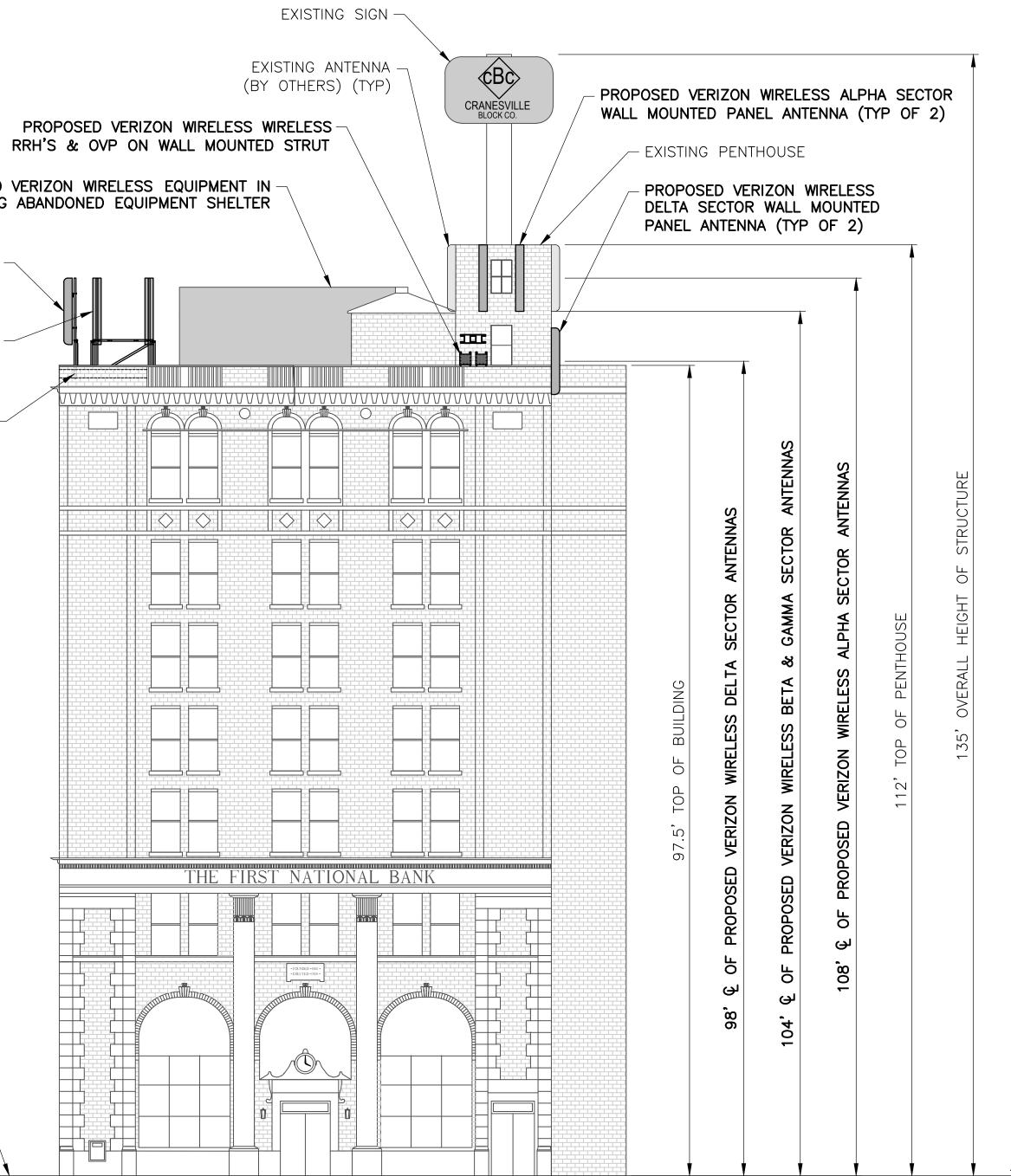
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SECTOR PANEL ANTENNA (TYP OF 2) ON PROPOSED BALLAST MOUNT (BEYOND)

EXISTING -STEEL FRAME

NOTE: PROPOSED VERIZON WIRELESS ANTENNAS TO BE PAINTED TO MATCH EXISTING BUILDING

EXISTING GRADE -



BUILDING ELEVATION C-3

SCALE: 1" = 20' (11x17 SIZE) 1" = 10' (22x34 SIZE)

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Looking southeast from parking Garage at Riverfront Center. Proposed installation will be visible from this location.

Tectonic

P-5

Distance from the photographic location to the proposed installation is $\pm 1,050$ feet.



Looking southeast from parking Garage at Riverfront Center. Proposed installation will be visible from this location.

Tectonic

Distance from the photographic location to the proposed installation is $\pm 1,050$ feet.



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic





Amsterdam, NY 12010





Looking northwest along Market Street. Proposed installation will be visible from this location.

P-1

10272.13

Distance from the photographic location to the proposed installation is ±465 feet.



Looking north from intersection of Pearl St., Market St., and Guy Park Ave. Proposed installation will be visible from this location.



10272.13

Distance from the photographic location to the proposed installation is $\pm 1,100$ feet.

Tectonic





Looking northwest along E. Main St., south of Main St. Proposed installation will be visible from this location. P-3

Distance from the photographic location to the proposed installation is ±735 feet.





Looking northwest along E. Main St., south of Main St. Proposed installation will be visible from this location. S-3

Distance from the photographic location to the proposed installation is ±735 feet.





Looking southeast from intersection of E. Main St. and Liberty St. Proposed installation will be visible from this location.

Distance from the photographic location to the proposed installation is ±1,185 feet.



Looking southeast from parking Garage at Riverfront Center. Proposed installation will be visible from this location.

Tectonic

P-5 10272.13

Distance from the photographic location to the proposed installation is ±1,050 feet.





Tectonic

S-5

Distance from the photographic location to the proposed installation is $\pm 1,050$ feet.



Looking southeast from the top of the parking Garage at Riverfront Center. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is ±500 feet.

Tectonic



Tectonic Looking northeast from north end of Chuctanunda Rd. Proposed installation will be visible from this location.

P-7

Distance from the photographic location to the proposed installation is ±575 feet.





Tectonic

P-8

Distance from the photographic location to the proposed installation is ± 340 feet.





Looking southwest from south end of ST-30 Bridge. Proposed installation will be visible from this location.

P-9

Distance from the photographic location to the proposed installation is ±1,180 feet.



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic



Looking southwest from south side Mohawk Valley Gateway Overlook Park. Proposed installation will be visible from this location.



Distance from the photographic location to the proposed installation is $\pm 1,180$ feet.

Tectonic

	REFERRAL FORM Referral Number MONTGOMERY COUNTY PLANNING BOARD assigned by the MCPB upon acceptance of referral for review
	This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda. Town of Amsterdam
то:	Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334
1.	Applicant: <u>Concord Development</u> 2. Site Address: Log City-Rd-Amsterdam-NY
	Tax Map Number(s): $24.00-1$ -43.11 4. Acres: 92.25
5.	Is the site currently serviced by public water? 🗌 Yes 🛛 🕱 No proposing to insall public
7.	On-site waste water treatment is currently provided by: Public Sewer or Septic System providing changed R-1 to PUD Current Zoning: R-2-& B-1 8. Current Land Use: vacant public sewer
9.	Project Description: <u>construct</u> multi-family development with mixed
~~	housing types including deplex homes and condominiums
10.	MCPB Jurisdiction:
	Fext Adoption or Amendment Site is located within 500' of:
	 a municipal boundary. a State or County thruway/highway/roadway an existing or proposed State or County park/recreation area an existing or proposed County-owned stream or drainage channel a State or County-owned parcel on which a public building or institution is situated a farm operation within an Agricultural District (Incl. Ag data Statement) (does not apply to area variances)
11,	PUBLIC HEARING: Date: July 1, 202 jme; 6:55 pm Location: Town of Amsterdam
	Town Hall 283 Manny's Town Hall 283 Manny's Referred Action(s) Corner Rd Amsterdam If referring multiple, related actions, please identify the referring municipal board if different from above.
12.	Text Adoption or Amendment Referring Board:
	Comprehensive Plan 🔲 Local Law 📋 Zoning Ordinance 🗌 Other
	Zone Change Referring Board:
Pro	bosed Zone District: Number of Acres:
	bose of the Zone Change:
	Site Plan Project Site Review Referring Board: Planning Board
	posed Improvements:
	posed Use: <u>housing development</u>
Wil	the proposed project require a variance? Yes No Type: Area Use
	State of County DOT work permit needed? If Yes : State or County No

15. 🗌 Special Permit	Referring Board:			
Section of local zoning code that requires a special permit for this use:				
Will the proposed project require a variance?	Yes 🗌 No Type: 🗌 Area 🛄 Use			
16. Variance	Referring Board:			
Area Use				
Section(s) of local zoning code to which the variance is being sought:				
Describe how the proposed project varies from the above	code section:			
SEQR	Determination			
Action: Find	ling:			
Type I	Positive Declaration – Draft EIS			
🗔 Туре II	Conditional Negative Declaration			
Image: State Sta				
Exempt	No Finding (Type II Only)			
SEQR determination made by (Lead Agency): no determination yet Date:				
REQUIRE	ED MATERIAL			

Send 3 copies of a "Full Statement of the Proposed Action" which includes:

All materials required by and submitted to the referring body as an application

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets.
- All material may be submitted digitally as well at <u>http://www.mcbdc.org/planning-services/montgomery-county-planning-board-referrals/</u>

This referral, as required by GML §239 I and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

Daulane Hubblean ponetany Name, Title & Phone Number of Person Completing this Form 518-842-1217

12/23/20 Transmittal Date

This side to be completed by Montgomery County Planning.

REFERRAL FORM montgomery county planning board

ТО:

Receipt of 239-m referral is acknowledged on ______. Please be advised that the Montgomery County Planning Board has reviewed the proposal stated on the opposite side of this form on ______ and makes the following recommendation.

] Approves

ľ

Approves (with Modification)

Disapproves:

No significant County-wide or inter-community input

Not subject to Planning Board review

Took no action

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning 2/10/2011

Application #:	
Date	

Date

Town of Amsterdam Planning Board Application to the Planning Board

A completed Application must be filed at least fourteen (14) days prior to the meeting at which it is to be considered by the Planning Board, including all applicable attached information.

Applicant: Conciscole Development Co. Applicant's Representative: Brett L. Steenburgh PEF	710
(nust be property owner) (if applicable)	_
Address: RO Box 9614 Address; 2832 Rose dale Rd	
Niska yura, Ny 12309 Nistayuna, Ny 12309	
Phone: $(5/3)$ $\frac{723}{723}$ 0703 Phone: (572) $565 - 0675$	
Professional Advisor: Same an Other :	
(Lo (Hngineer, Architect, Surveyor, etc.) (if appropriate, please specify)	
Address: 2832 Rosendale Rd Address:	
Niskayuna, NY 12309	
Phone: (578) 365-0675 Phone: ()	
Property Location Address: Log C: Ly Road	
General Location: 2,800 Ft as west of Kt 30 on	
South side of Log City RI	
Zoning District: <u>R-1</u> <u>Residential</u>	
Tax Parcel ID # (SBL) $2.4 = 00 - 1 - 43.1/$	

Type of Application (please check appropriate box(s)):

□ Subdivision

🗍 Site Plan

Special Use Permit

Explanmed Unit Development Review (formal action required by Town Board)

Attached please find Appendix A-SEQR compliance, and Appendix B-Ag. Data Statement compliance. Compliance with these items is required under the applicable NYS Laws, a brief explanation is included in the appendices to assist the applicant. For specifics on submission/application requirements, procedures, time frames, etc., the applicant should refer to the applicable Town regulations (Zoning, Subdivision, etc.) and/or NYS law (SEQR, Ag. & Markets, General Municipal, etc.).

Applicant Date Applicant's Representative Date

1



TOWN OF AMSTERDAM

283 Manny's Corner Road Amsterdam, NY 12010 Phone: 518-842-7961 • Fax: 518-843-6136 www.townofamsterdam.org

APPLICATION I	FOR ZONIN	G/USE PERMIT
APPLICATION DATE: 5 1 7 1 2020 APPLICATION #:		NB: R-1 Residential KMAPNO:: 24.00-1-43.11
1.) PROPERTY/BUILDING LOCATION:	boy C; ty Road	
2.) PROPERTY OWNER'S NAME: Co ADDRESS: PO Box 9614	· corde Development	Co. UCTELEPHONE (5/8) 423 - 070
RESIDENTIAL COMMERCIAL COMMERCIAL COMMERCIAL OCCUPANCY (WITH NO REAC DEMOLITION COMMERCIAL OR D RESIDENTIAL (CH METHOD OF DEMOLITION:	MADDLLAR NOME INSTALLATION MODULAR NOME INSTALLATIO GARAGE I ATTACHED GARA ACCESSORY BUILDING/STORAG GIIMMEY CONSTRUCTION SOLID FUEL BURNING DEVICE STOVE INSERT POOL I IN GROUND I ABOT SEPTIC SYSTEM I WELL HOTHER:	PLANNED UNIT DEVELOPMENT ON KENNEL/STABLES GE HOME OCCUPATION GE SHED OUTDOOR FURANCES SOLAR COLLECTORS + DNSTALLATIONS WIND ENERGY FACILITIES VE GROUND
5.) SITE INFORMATION (THE FOLLOWING INFORM A.) DIMENSIONS OF LOT: FRONTAGE ACRIAGE B.) IS THIS A CORNER LOT? ☐ YES OR C.) WILL THE GRADE OF THIS LOT BE CH IF "YES", DESCRIBE AND SHOW (D.) ▲ PUBLIC WATER OR ☐ PRIVATE WE E.) ▲ SEWER OR ☐ PRIVATE SEPTIC	Condominiton B: 10 MATION MUST BE PROVIDED ALONG 570 REAR RIGHT SE 9.2.25 WANO JANGED AS A RESULT OF THIS CONS ON PLOY PLAN ELL	G WITH DETAILED PLOT PLAN) G WITH DETAILED PLOT PLAN) IDRLEFT SIDB STRUCTION? UKYES OR U NO
	UIRED FOR PUBLIC WATER AND SAN 	VITARY SEWER T SIDELBFT SIDEN/A

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BASEMENT (CHECK ONE): EXFLL C CRAWL SLAB GARAGE: S I STALL X 2 STALL C 3 STALL C PRIVATE C PUBLIC THE ACCESSORY BUILDING WILL BEAS POLLOWS: C DESCRIPTION: Proper- Parcel C DIMENSIONS: FRONT WIDTH: Varies Store Length: Varies Height: CONTRACTOR'S NAME: U.A. DAY OF MARKET CONFERSION AND ALL CONTRACTOR'S MUST PROVIDE PROOF OF WORKERS CONFENSATION AND ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFENSATION AND ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFENSATION AND S SIGNATURE OF PROPERTY OWNER: CERTIFY THAT THE CONSTRUCTION PLANS AND ALL OTHER INFORMATION SURNITITED AS FARM (ALL CONTRACTORS ONLY:	e duplex
E OTHER: 4 - UALL CONDOS BASEMENT (CHECK ONE): EXFILL DI CRAWL ESLAB GARAGE: 1 STALL 2 STALL DI STALL DI PRIVATE DI PURLIC THE ACCESSORY BUILDING WILL BE AS FOLLOWS: DI DESCRIPTION: Property DAY PROVIDE: Value of the construction of the construction of the construction of the construction plans and all other information surmitted as part (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFENSATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP (ALL CONTRACTORS MUST PROVIDE PROOF OF WORKERS CONFERNATION AP () FOR OFFICE USE ONLY: DATE DE (200000 OFFICER) (200000 OFFICER) (200000 OFFICER) (200000 OFFICER) (200000 OFFICER)	
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GARAGE: SI I STALL SIZETALL DI I STALL DI PRIVATE DI PUBLIC THE ACCESSORY BUILDING WILL BE AS FOLLOWS: DI DESCRIPTION: Property 	
□ DIMENSIONS: FRONT WIDTH: Var. 25_SIDE LENGTH: Var. 26_E ○ CONTRACTOR'S NAME: Uak 2000 DAY PH MAILING ADDRESS:	
) CONTRACTOR'S NAME: UAKDANA DAY PH MAILING ADDRESS;	
MAILING ADDRESS;	Juricy
) FATIMATED VALUE OF ALL WORK (LABOR & MATERIALS): \$	ONE: ()
) SIGNATURE OF PROPERTY OWNER:	D LIABILITY INSURANCE)
CERTIPY THAT THE CONSTRUCTION PLANS AND ALL OTHER INFORMATION SUBMITTED AS PART D.) FOR OFFICE USE ONLY: DATE APPROVED; DATE DE SIGNATURE; DATE DE (ZONING OFFICER) PERMIT EXPTUES: U DENIED AND REFERRED 1	······································
SIGNATURE; (ZOWING OFFICER) PERMIT EXPILES: U DENIED AND REFERRED 1 DENIED AND REFERRED 1	
(ZONING OFFICER) PERMIT EXPTLES:	IIED:
PERMIT EXPILES:	
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NOTES OR COMMENTS:	O ZONING BOARD OF APPEAL
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Instructions for Completing Part 1

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Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information.

Name of Action or Project:		<u></u>	
Log City Road PUD Project Location (describe, and attach a general location map):			
Log City Road			
	· ••••		
Brief Description of Proposed Action (include purpose or need):			
Re-zone 92.25 Acres from R-1 Residential to PUD for the purpose of development a homes and condominiums.	multi-family development with mi	xed housing types including duplex	
Name of Applicant/Sponsor:	Telephone: (518) 423	-0703	
Concorde Development Corporation LLC		E-Mail: cmyers4699@aol.com	
Address: PO Box 9614			
City/PO: Niskayuna	State: NY	Zip Code: 12309	
Project Contact (if not same as sponsor; give name and title/role):	Telephone: (518) 365	Telephone: (518) 365-0675	
Brett Steenburgh PE	E-Mail: bsteenburghpe@gmail.c		
Address: 2832 Rosendale Road			
City/PO:	State:	Zip Code:	
Niskayuna	NY	12309	
Property Owner (if not same as sponsor):	Telephone:		
	E-Mail:		
Address:	· · · · · · · · · · · · · · · · · · ·		
City/PO;	State:	Zip Code:	

B. Government Approvals

Di Government ripprovins				
B. Government Approvals, assistance.)	Funding, or Spor	nsorship. ("Funding" includes grants, loans, ta	ax relief, and any othe	r forms of financial
Government E	ntity	If Yes: Identify Agency and Approval(s) Required	Application Date (Actual or projected)	
a. City Counsel, Town Board or Village Board of Truste		Town Board	PUD	
b. City, Town or Village Planning Board or Commi	∠ Yes No	Planning Board	PUD, Site Plan and Sub	division
c. City, Town or Village Zoning Board of A	∐Yes <mark>I</mark> No Appeals			
d. Other local agencies	∐Yes ZNo			
e. County agencies	ZYes No	Montgomery County Planning	Referral	
f. Regional agencies	∐Yes Z No			
g. State agencies	ZYes No	NYSDOT	Traffic study & utility cor	inections
h. Federal agencies	V Yes No	USACOE	Wetlands	
i. Coastal Resources.<i>i</i>. Is the project site within	n a Coastal Area, o	r the waterfront area of a Designated Inland W	'aterway?	Yes ZNo
<i>ii.</i> Is the project site locate <i>iii</i> . Is the project site within		with an approved Local Waterfront Revitalizate Hazard Area?	tion Program?	□ Yes ℤNo □ Yes ℤNo
C. Planning and Zoning				
C.1. Planning and zoning a				
only approval(s) which must • If Yes, complete sec	be granted to enab tions C, F and G.	mendment of a plan, local law, ordinance, rule ble the proposed action to proceed? oplete all remaining sections and questions in H	-	∐Yes ⊠ No
C.2. Adopted land use plans	s.	· · · · · · · · · · · · · · · · · · ·		· -
a. Do any municipally- adopt where the proposed action		age or county) comprehensive land use plan(s)) include the site	⊿ Yes⊡No
If Yes, does the comprehensi would be located?	ve plan include spe	ecific recommendations for the site where the p	roposed action	∐Yes☑No
	rea (BOA); design	ocal or regional special planning district (for easted State or Federal heritage area; watershed i		I Yes ∐No
· · · · · · · · · · · · · · · · · · ·		· · · · · ·	·····	
 c. Is the proposed action loca or an adopted municipal fa If Yes, identify the plan(s): 		ially within an area listed in an adopted munici a plan?	pal open space plan,	∐Yes ⊠ No

C.3. Zoning	
 a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? 	☑ Yes□No
b. Is the use permitted or allowed by a special or conditional use permit?	Yes
 c. Is a zoning change requested as part of the proposed action? If Yes, <i>i</i>. What is the proposed new zoning for the site? PUD 	□Yes□No
C.4. Existing community services.	
a. In what school district is the project site located? <u>City of Amsterdam</u>	
b. What police or other public protection forces serve the project site? <u>Montgomery County Sheriff</u>	
c. Which fire protection and emergency medical services serve the project site? Hagaman Volunteer Fire	
d. What parks serve the project site? N/A	
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixe components)? Mixed use residential	ed, include all
b. a. Total acreage of the site of the proposed action? 92.25 acres	· · · · · · · · · · · · · · · · · · ·
b. Total acreage to be physically disturbed? 25.00 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 92.25 acres	
 c. Is the proposed action an expansion of an existing project or use? <i>i</i>. If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, mile square feet)? % Units: 	☐ Yes [] No s, housing units,
d. Is the proposed action a subdivision, or does it include a subdivision?	⊘ Yes ⊡No
If Yes, <i>i</i> . Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types) Residential	
 ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed? <u>52+/-</u> iv. Minimum and maximum proposed lot sizes? Minimum <u>8,000</u> Maximum <u>24,000</u> 	Yes ZNo
 e. Will the proposed action be constructed in multiple phases? if No, anticipated period of construction: if Yes: Total number of phases anticipated Anticipated commencement date of phase 1 (including demolition) 11 month 2020 year Anticipated completion date of final phase Generally describe connections or relationships among phases, including any contingencies where progr determine timing or duration of future phases: Water and sewer will need to be developed to the site in the first phase of construction 	¥es∐No

•

	ct include new resid				ℤ Yes □ No
If Yes, show nun	ubers of units propo				
	<u>One Family</u>	<u>Two Family</u>	Three Family	Multiple Family (four or more)	
Initial Phase		26		56	
At completion					
of all phases		52		112	
_				·	
g. Does the prop	osed action include	new non-residentia	I construction (inclu	uding expansions)?	∐Yes Z No
If Yes,					
i. Total number	of structures	<u> </u>			
ii. Dimensions ((in feet) of largest p	roposed structure:	height;	width; andlength	
iii. Approximate	extent of building	space to be heated	or cooled:	square feet	
h. Does the prop	osed action include	construction or oth	er activities that wil	Il result in the impoundment of any	Yes No
liquids. such a	s creation of a wate	r supply, reservoir.	pond, lake, waste l	agoon or other storage?	
If Yes,				-	
	e impoundment: <u>S</u>	torm water managem	ent	_	
ii. If a water imp	oundment, the prin	cipal source of the	water:	Ground water 🖌 Surface water strea	ms Other specify:
•		•			
iii. If other than	water, identify the ty	pe of impounded/	contained liquids an	d their source.	
N/A					
iv. Approximate	size of the propose	d impoundment.	Volume:	2.6 million gallons; surface area:	86000 acres
v. Dimensions of	of the proposed dam	or impounding str	ucture:	4 height; 200 length	
vi. Construction	method/materials f	or the proposed da	m or impounding st	ructure (e.g., earth fill, rock, wood, con	crete):
Earth					
D.2. Project Op	erations				
		env excernation m	ning or dredging d	luring construction, operations, or both?	Ves ZNo
A. Does the prop	achoral site prepar	any excavation, in	etallation of utilities	or foundations where all excavated	
materials will		mon, grading of in	standuon or unities	or roundations where an excavated	
If Yes:	remain onsite)				
	was of the avery	tion or dradaina?			
7. what is the p	urpose of the excave	those of the adjustment		to be removed from the site?	
π . How much ma	tternar (including for	ok, earni, seannein	s, etc.) is proposed i	to be removed from the site?	
	· · ·	• •			
	hat duration of time			and and along to use menore or dianog	o of them
<i>m</i> . Describe nati	ire and characteristic	es of materials to c	e excavated or dred	ged, and plans to use, manage or dispos	
					······································
in Will there he	onsite dewatering	or processing of ex	conneted materiale?		Yes No
		1 0			
		1			···· · · · · · · · · · · · · · · · · ·
				acres	
			or dredging?	feet	
	avation require blas				Yes No
<i>ix.</i> Summarize si	te reclamation goals	s and plan:			<u>,</u>
					·
	· · ·				·
b. Would the pro	posed action cause	or result in alterati	on of, increase or de	crease in size of, or encroachment	Z Yes No
			ch or adjacent area?		
If Yes:	. ,		-		
	vetland or waterbod	y which would be	affected (by name,	water index number, wetland map numb	er or geographic
*		•	cts less than 0.25 Acre		

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ii. Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, placement of alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in square f	eet or acres:
General filling of scrub shrub wetlands for road crossings and utilities	
iii. Will the proposed action cause or result in disturbance to bottom sediments?	Yes No
If Yes, describe:	Yes
If Yes:	
acres of aquatic vegetation proposed to be removed:	
expected acreage of aquatic vegetation remaining after project completion:	<u>.</u>
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	
c. Will the proposed action use, or create a new demand for water?	Yes No
If Yes:	
<i>i.</i> Total anticipated water usage/demand per day: 49280 gallons/day <i>ii.</i> Will the proposed action obtain water from an existing public water supply?	Ves No
If Yes:	
Name of district or service area: Town of Amsterdam	
 Does the existing public water supply have capacity to serve the proposal? 	Yes No
 Is the project site in the existing district? 	Yes No
 Is expansion of the district needed? 	Ves No
 Do existing lines serve the project site? 	Yes 🛛 No
iii. Will line extension within an existing district be necessary to supply the project?	Z Yes ⊡No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	·····
Water mains will need to be run from the existing main on Route 30 to the parcel	
Source(s) of supply for the district: <u>Town of Amsterdam</u>	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site? If, Yes:	Yes VNo
Applicant/sponsor for new district:	· · · · · · · · · · · · · · · · · · ·
Date application submitted or anticipated:	
 Proposed source(s) of supply for new district: v. If a public water supply will not be used, describe plans to provide water supply for the project: 	
<i>v</i> . It a public water supply will not be used, describe plans to provide water supply for the project	
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity: gallo	ns/minute.
d. Will the proposed action generate liquid wastes? If Yes:	Ves No
i. Total anticipated liquid waste generation per day: 49280 gallons/day	
ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe all com	
approximate volumes or proportions of each):	
Sanitary Waste	
<i>iii.</i> Will the proposed action use any existing public wastewater treatment facilities? If Yes:	Ves No
Name of wastewater treatment plant to be used: <u>City of Amsterdam</u>	• • • • • • • • •
Name of district: Town of Amsterdam	
 Does the existing wastewater treatment plant have capacity to serve the project? 	∑ Yes □ No
• Is the project site in the existing district?	Yes No
• Is expansion of the district needed?	☑ Yes □No

 Do existing sewer lines serve the project site? 	Yes No
• Will a line extension within an existing district be necessary to serve the project?	Z Yes □ No
If Yes:	
 Describe extensions or capacity expansions proposed to serve this project: 	
Low pressure sewer mains will be utilized to connect to the existing sewer main in Route 30	
iv. Will a new wastewater (sewage) treatment district be formed to serve the project site?	V Yes □No
If Yes:	
Applicant/sponsor for new district: <u>Town of Amsterdam</u>	
 Date application submitted or anticipated: 7/2020 	
What is the receiving water for the wastewater discharge? Mohawk River	
 What is the receiving water for the wastewater discharger <u>Monawk River</u> If public facilities will not be used, describe plans to provide wastewater treatment for the project, including spec 	fuing nean and
receiving water (name and classification if surface discharge or describe subsurface disposal plans):	irying proposed
N/A	
vi. Describe any plans or designs to capture, recycle or reuse liquid waste:	
e. Will the proposed action disturb more than one acre and create stormwater runoff, either from new point	Ø Yes ⊡ No
sources (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	
source (i.e. sheet flow) during construction or post construction?	
If Yes:	
i. How much impervious surface will the project create in relation to total size of project parcel?	
Square feet or7.5 acres (impervious surface)	
Square feet or 92.25 acres (parcel size)	
ii. Describe types of new point sources. SMP's created to manage stormwater on the parcel	
iii. Where will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr	operties.
groundwater, on-site surface water or off-site surface waters)?	
USACOE Wellands	
If to surface waters, identify receiving water bodies or wetlands:	
USACOE Wetlands	
Will stormwater runoff flow to adjacent properties?	☐ Yes 🛛 No
iv. Does the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	☑ Yes 🗌 No
f. Does the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	Yes No
combustion, waste incineration, or other processes or operations?	
If Yes, identify:	
<i>i</i> . Mobile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
ii. Stationary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
iii. Stationary sources during operations (e.g., process emissions, large boilers, electric generation)	· · · · · · · · · · · · · · · · · · ·
g. Will any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	Yes No
or Federal Clean Air Act Title IV or Title V Permit?	
If Yes:	
<i>i</i> . Is the project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes□No
ambient air quality standards for all or some parts of the year)	
<i>ii</i> . In addition to emissions as calculated in the application, the project will generate:	
•Tons/year (short tons) of Carbon Dioxide (CO ₂)	
•Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
Tons/year (short tons) of Perfluorocarbons (PFCs)	
•Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
 Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs) 	
 Tons/year (short tons) of Hazardous Air Pollutants (HAPs) 	

 h. Will the proposed action generate or emit methane (including, but not limited to, sewage treatment plants, landfills, composting facilities)? If Yes: 	Yes No
 i. Estimate methane generation in tons/year (metric):	enerate heat or
 Will the proposed action result in the release of air pollutants from open-air operations or processes, such as quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., diesel exhaust, rock particulates/dust): 	□Yes Z No
 j. Will the proposed action result in a substantial increase in traffic above present levels or generate substantial new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): i. When is the peak traffic expected (Check all that apply): 	ØYes∏No s):
 iii. Parking spaces: Existing0 Proposed320 Net increase/decrease iv. Does the proposed action include any shared use parking? v. If the proposed action includes any modification of existing roads, creation of new roads or change in existing <u>New Roads</u> vi. Are public/private transportation service(s) or facilities available within ½ mile of the proposed site? vii Will the proposed action include access to public transportation or accommodations for use of hybrid, electric or other alternative fueled vehicles? viii. Will the proposed action include plans for pedestrian or bicycle accommodations for connections to existing pedestrian or bicycle routes? 	\Box Yes \mathbb{Z} No
 k. Will the proposed action (for commercial or industrial projects only) generate new or additional demand for energy? If Yes: i. Estimate annual electricity demand during operation of the proposed action: ii. Anticipated sources/suppliers of electricity for the project (e.g., on-site combustion, on-site renewable, via grid/l other): 	
iii. Will the proposed action require a new, or an upgrade, to an existing substation?	∐Yes∐No
1. Hours of operation. Answer all items which apply. i. During Construction: ii. During Operations: • Monday - Friday: 6am - 7pm • Monday - Friday: N/A • Saturday: 6am - 7pm • Saturday: N/A • Sunday: 6am - 7pm • Sunday: N/A • Holidays: 6am - 7pm • Holidays: N/A	

 m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, 'operation, or both? If yes: i. Provide details including sources, time of day and duration: 	Yes No
 Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Describe:	Yes No
 n. Will the proposed action have outdoor lighting? If yes: <i>i</i>. Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures: 	Yes No
 Will proposed action remove existing natural barriers that could act as a light barrier or screen? Describe:	Yes No
 Does the proposed action have the potential to produce odors for more than one hour per day? If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures: 	Yes 2No
 p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? If Yes: i. Product(s) to be stored ii. Volume(s) per unit time (e.g., month, year) iii. Generally, describe the proposed storage facilities: 	Yes ZiNo
 q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation? If Yes: i. Describe proposed treatment(s): 	Yes ZNo
ii. Will the proposed action use Integrated Pest Management Practices?	Yes No
 i. Will the proposed action use megrated rest tranagement Practices? r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal of solid waste (excluding hazardous materials)? If Yes: i. Describe any solid waste(s) to be generated during construction or operation of the facility: Construction: tons per (unit of time) Operation : tons per (unit of time) ii. Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste: Construction: 	🗋 Yes 🛛 No
Operation:	
Operation:	

s. Does the proposed action include construction or mod	ification of a solid waste m	anagement facility?	🗌 Yes 💋 No
If Yes:<i>i</i>. Type of management or handling of waste proposed other disposal activities):			g, landfill, or
<i>ii.</i> Anticipated rate of disposal/processing:			
 Tons/month, if transfer or other non- 		ent, or	
• Tons/hour, if combustion or thermal	treatment		
iii. If landfill, anticipated site life:	years	1 1 01 1	F187 F7187
t. Will the proposed action at the site involve the comme waste?	rcial generation, treatment,	storage, or disposal of hazardo	ous []Yes []No
If Yes:			
i. Name(s) of all hazardous wastes or constituents to be	e generated, handled or man	aged at facility:	
ii. Generally describe processes or activities involving h	nazardous wastes or constitu	uents:	
iii. Specify amount to be handled or generatedt	ons/month		
iv. Describe any proposals for on-site minimization, rec	ycling or reuse of hazardou	s constituents:	
v. Will any hazardous wastes be disposed at an existing	offsite hazardous waste fa	cility?	☐Yes ☐No
If Yes: provide name and location of facility:			
If No: describe proposed management of any hazardous	mater which will not be as	ut to a hannadaus un to facility	
In No. deserve proposed management of any nazardous	wastes which will not be se	nt to a nazaruous waste facinty	y.
E. Site and Setting of Proposed Action			
E. She and Setting of Freposed Action			
E.1. Land uses on and surrounding the project site			
a. Existing land uses.			
<i>i</i> . Check all uses that occur on, adjoining and near the Urban Industrial Commercial Resid	project site.	rat (non-farm)	1
\square Forest \square Agriculture \square Aquatic \square Other			
ii. If mix of uses, generally describe:		· · · · · ·	
Mostly agricultural land with forested tree lines			
L. T. and where and a substantiant of the maximum state			
b. Land uses and covertypes on the project site.	C	10	
Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
Roads, buildings, and other paved or impervious			
surfaces	0	7.5	+7.5
Forested	30.48	29.00	-1.48
Meadows, grasslands or brushlands (non- agrigultural including abandoned agrigultural)	61.77	38.25	-23.52
agricultural, including abandoned agricultural) Agricultural 			
(includes active orchards, field, greenhouse etc.)	0	0	0
Surface water features			
(lakes, ponds, streams, rivers, etc.)	0	0	0
Wetlands (freshwater or tidal)	32.43	32.2	23
Non-vegetated (bare rock, earth or fill)	0	0	0
• Other			
Describe:			

c. Is the project site presently used by members of the community for public recreation?i. If Yes: explain:	∐Yes⊠No
 d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: 	Yes No
e. Does the project site contain an existing dam? If Yes: <i>i</i> . Dimensions of the dam and impoundment: • Dam height:feet • Dam length:feet • Surface area:acres • Volume impounded:gallons OR acre-feet <i>ii</i> . Dam's existing hazard classification: <i>iii</i> . Provide date and summarize results of last inspection:	Yes No
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil	∐Yes ∑ No ity?
If Yes: <i>i</i> . Has the facility been formally closed? • If yes, cite sources/documentation:	Yes No
If yes, cite sources/documentation:	
iii. Describe any development constraints due to the prior solid waste activities:	
 g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: i. Describe waste(s) handled and waste management activities, including approximate time when activities occurred 	∐Yes ∑ No ed:
 h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site? 	Yes Z No
If Yes: <i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	∐Yes∏No
Yes - Spills Incidents database Provide DEC ID number(s): Yes - Environmental Site Remediation database Provide DEC ID number(s): Neither database Provide DEC ID number(s):	······································
<i>ii</i> . If site has been subject of RCRA corrective activities, describe control measures:	
<i>iii</i> . Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s): V00372	Ves No
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):	

·

v. Is the project site subject to an institutional control		Yes
 If yes, DEC site ID number:	g., deed restriction or easement):	
 Describe any use limitations: Describe any engineering controls: 		
• Will the project affect the institutional or er	ngineering controls in place?	Yes No
E.2. Natural Resources On or Near Project Site		
a. What is the average depth to bedrock on the projec		
b. Are there bedrock outcroppings on the project site If Yes, what proportion of the site is comprised of bed	? drock outcroppings?%	Yes VNo
c. Predominant soil type(s) present on project site:		%
		_% %
d. What is the average depth to the water table on the	······································	70
e. Drainage status of project site soils: Well Draine		
	ed: <u>%</u> of site Well Drained: % of site	
Z Poorly Drai		
f. Approximate proportion of proposed action site wit	h slopes: ∇ 0-10%: 60 % of site ∇ 10-15%: 40 % of site	
	\Box 15% or greater:% of site	
g. Are there any unique geologic features on the proje If Yes, describe:		☐ Yes ⁄ No
 h. Surface water features. <i>i</i>. Does any portion of the project site contain wetlan ponds or lakes)? 	ds or other waterbodies (including streams, rivers,	□Yes 2 No
<i>ii.</i> Do any wetlands or other waterbodies adjoin the p.	roject site?	V Yes No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.		
<i>iii.</i> Are any of the wetlands or waterbodies within or a state or local agency?	adjoining the project site regulated by any federal,	Yes No
	dy on the project site, provide the following information: Classification	
Lakes or Ponds: Name	Classification	
• Wetland No. (if regulated by DEC)	nal Wellands Approximate Size 32.	43 Ac.
v. Are any of the above water bodies listed in the mos waterbodies?	st recent compilation of NYS water quality-impaired	Yes No
If yes, name of impaired water body/bodies and basis	for listing as impaired:	
i. Is the project site in a designated Floodway?		Yes ZNo
j. Is the project site in the 100-year Floodplain?		
k. Is the project site in the 500-year Floodplain?		
1. Is the project site located over, or immediately adjoin If Yes:	ning, a primary, principal or sole source aquifer?	V Yes N o
i. Name of aquifer: Principal Aquifer		

m. Identify the predominant wildlife specie			<u>.</u>
' Deer	Skunk	Racoon	
Ground Hog	······································	· · · ·	· · · · · ·
n. Does the project site contain a designated	significant natural community?		Yes 🛛 No
If Yes:		x	
i. Describe the habitat/community (compo	sition, function, and basis for designation	.):	
ii Rausada) of description or avaluation			
ii. Source(s) of description or evaluation:iii. Extent of community/habitat:		• • •	<u> </u>
Currently:		acres	
		ICTES	
	_		
• Gain or loss (indicate + or -):	a	cres	
o. Does project site contain any species of p	lant or animal that is listed by the federal	government or NYS as	Yes No
endangered or threatened, or does it contained			
If Yes:		or of the second s	
<i>i.</i> Species and listing (endangered or threatene	अते):		
. operes and asing (chuangered of alleatene	····		<u> </u>
	- C. 1		
p. Does the project site contain any species	of plant or animal that is listed by NYS a	s rare, or as a species of	□Yes 2 No
special concern?			
If Yes:			
<i>i.</i> Species and listing:		· ·	
q. Is the project site or adjoining area curren	tly used for hunting, trapping, fishing or s	shell fishing?	Yes No
q. Is the project site or adjoining area curren If yes, give a brief description of how the pro-	oposed action may affect that use:		
	oposed action may affect that use:		
	oposed action may affect that use:		
If yes, give a brief description of how the pro- E.3. Designated Public Resources On or I	oposed action may affect that use:		
If yes, give a brief description of how the pro- E.3. Designated Public Resources On or I a. Is the project site, or any portion of it, loca	oposed action may affect that use:		
If yes, give a brief description of how the pro- E.3. Designated Public Resources On or I a. Is the project site, or any portion of it, loca Agriculture and Markets Law, Article 25	oposed action may affect that use:	ertified pursuant to	
If yes, give a brief description of how the pro- E.3. Designated Public Resources On or I a. Is the project site, or any portion of it, loca Agriculture and Markets Law, Article 25 If Yes, provide county plus district name/nu	oposed action may affect that use: Near Project Site ated in a designated agricultural district of -AA, Section 303 and 304? umber:	ertified pursuant to	∐Yes ∑ No
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If yes, give a brief description of how the pro- E.3. Designated Public Resources On or I a. Is the project site, or any portion of it, loca Agriculture and Markets Law, Article 25- If Yes, provide county plus district name/nu b. Are agricultural lands consisting of highly <i>i</i> . If Yes: acreage(s) on project site? <i>ii</i> . Source(s) of soil rating(s): c. Does the project site contain all or part of Natural Landmark? If Yes: <i>i</i> . Nature of the natural landmark: <i>ii</i> . Provide brief description of landmark, in d. Is the project site located in or does it adjo If Yes:	oposed action may affect that use: Near Project Site ated in a designated agricultural district co-AA, Section 303 and 304? -AA, Section 303 and 304? imber: v productive soils present? c, or is it substantially contiguous to, a reg Biological Community Geolencluding values behind designation and age bin a state listed Critical Environmental A	ertified pursuant to	☐Yes ØNo ☐Yes ØNo ☐Yes ØNo

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e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commissi Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic Places.	
<i>i</i> . Nature of historic/archaeological resource: Archaeological Site Historic Building or District <i>ii</i> . Name:	
iii. Brief description of attributes on which listing is based:	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	Yes No
g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes:	Yes No
i. Describe possible resource(s):	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	Yes No
If Yes:	
 i. Identify resource: ii. Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail or etc.): 	scenic byway,
etc.):	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	Yes No
If Yes:	
i. Identify the name of the river and its designation:	
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	Yes No

F. Additional Information

Attach any additional information which may be needed to clarify your project.

If you have identified any adverse impacts which could be associated with your proposal, please describe those impacts plus any measures which you propose to avoid or minimize them.

G. Verification

I certify that the information provided is true to the best of my knowledge.

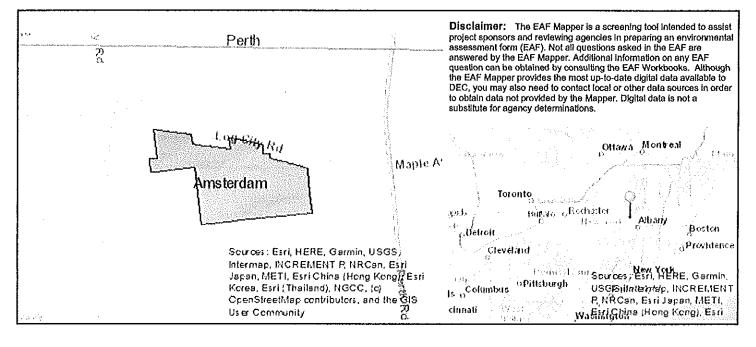
Applicant/Sponsor Name Brett L. Steenburgh

Date 5/22/2020

Brett Steenburgh PE Bignature_____

Title Engineer For Applicant





B.i.i [Coastal or Waterfront Area]	No
B.i.ii [Local Waterfront Revitalization Area]	No
C.2.b. [Special Planning District]	Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
C.2.b. [Special Planning District - Name]	NYS Heritage Areas: Mohawk Valley Heritage Corridor
E.1.h [DEC Spills or Remediation Site - Potential Contamination History]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Listed]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.i [DEC Spills or Remediation Site - Environmental Site Remediation Database]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.1.h.iii [Within 2,000' of DEC Remediation Site]	Yes
E.1.h.iii [Within 2,000' of DEC Remediation Site - DEC ID]	V00372
E.2.g [Unique Geologic Features]	No
E.2.h.i [Surface Water Features]	No
E.2.h.ii [Surface Water Features]	Yes
E.2.h.iii [Surface Water Features]	Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
E.2.h.v [Impaired Water Bodies]	No
E.2.i. [Floodway]	No
E.2.j. [100 Year Floodplain]	No
E.2.k. [500 Year Floodplain]	Νο
E.2.I. [Aquifers]	Yes
E.2.I. [Aquifer Names]	Principal Aquifer

1

E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	No
E.3.a. [Agricultural District]	No
E.3.c. [National Natural Landmark]	No
E.3.d [Critical Environmental Area]	Νο
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	No

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September 16, 2020

Ref: 20492.00

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Mr. Chris Myers Concord Development Co. LLC c/o Brett Steenburgh 2382 Rosendale Road Niskayuna, NY 12309

Re: Traffic Impact Evaluation, Concord Development, Log City Road, Town of Amsterdam, NY

Dear Mr. Myers,

VHB has conducted a traffic impact and access study to assess the potential traffic impacts associated with the construction of the Concord Development located on the south side of Log City Road (County Road (CR) 17) in the Town of Amsterdam. The proposed residential and light industrial development includes the construction of 4 single-family homes, 82 condominium units, 74 apartment units, and up to 60,000 square feet (SF) of light industrial land use in five separate lots on Log City Road (CR 17). The proposed Overall Development Plan prepared by Brett L. Steenburgh, PE PLLC is included as Attachment A.

This letter includes an evaluation of the existing traffic operations and future conditions with and without construction of the Concord Development. As detailed herein, the proposed project is expected to have a minor impact on local traffic operations.

Site Location and Proposed Development

The approximate 92-acre project site, as shown in the following aerial image, is located along the south side of Log City Road between NY Route 30 (Perth Rd) and McKay Road (CR 40) in the Town of Amsterdam. Access to the Concord Development site is proposed via four new full access roadways intersecting Log City Road; one is a shared driveway to three condominium buildings, the second provides direct access to the majority of the condominium units, the third provides direct access to the apartment units (Log City Road Extension), and the fourth provides access to the industrial land uses (Log City Road Extension). Two of the internal site roadways will connect and provide access between the majority of the condominium units. Individual driveways with direct access to Log City Road are provided for the four single-family homes. The project is anticipated to be fully constructed in 2026. After completion of the proposed project, additional land may be developed (Phase 2) pending market conditions. A new traffic evaluation may be necessary to assess the impacts of Phase 2 in the future.

Engineers | Scientists | Planners | Designers

100 Great Oaks Boulevard Suite 118 Albany, New York 12203 P 518.389.3600 F 518.452.0324





Existing Conditions

Based on a review of the study area and magnitude of traffic generate by the project, the traffic study includes an evaluation the Log City Road (CR 17)/NY Route 30/Maple Avenue (CR 39) intersection and the proposed site driveway intersections with Log City Road. The following sections provide a description of the existing study area roadways and intersection characteristics.

Study Area Roadway

The following roadway is included in the project study area and described in detail below.

Log City Road (CR 17)

Log City Road, also designated as Montgomery County Road 17, is classified as an urban major collector and provides east-west travel from McKay Road (CR 40) to NY Route 30. Log City Road provides one 12foot travel lane in each direction with approximate 8-foot paved shoulders on the eastern portion of the roadway (Log City Road Extension) and one 11-foot travel lane in each direction from Log City Road Extension to McKay Road with very narrow or no shoulder. The posted speed limit on Log City Road is 45mph. There are no sidewalks provided on Log City Road. Traffic volume data published by the New York State Department of Transportation (NYSDOT) collected in 2016 indicates that near the project site, this roadway serves approximately 2,100 vehicles per day (vpd). Land uses in the project vicinity are primarily residential and agricultural.



Study Area Intersection

For the purposes of evaluating existing and future traffic conditions near the site, a project study area has been established and includes one intersection and the four new site driveways. The study area intersection is described in detail below:

Log City Road (CR 17)/NY Route 30 (Perth Road)/Maple Avenue (CR 39)

The Log City Road (CR 17)/NY Route 30 (Perth Road)/Maple Avenue (CR 39) intersection is a four-leg intersection controlled with a traffic signal. The northbound NY Route 30 approach provides a left-turn lane, a through lane, and a shared through/right-turn lane. The southbound NY Route 30 approach provides a left-turn lane and a shared through/right-turn lane. The eastbound Log City Road and westbound Maple Avenue approaches each provide a single lane for shared travel movements. Sidewalks are provided on the west side of NY Route 30 at the intersection. A small sidewalk landing is also provided on the southeast quadrant of the intersection. Marked crosswalks with pushbuttons, indicators, and countdown timers are provided on the northbound and eastbound approaches to the intersection.

Traffic Volumes

The most recent NYSDOT traffic volume data (2016) near the project site is summarized in Table 1 to illustrate general traffic volumes in the study area. The NYSDOT traffic volume data is included in Attachment B.

	Weekday Daily	Weekday Morning Peak Hour			Weekday Morning Peak Hour Weekday Evening Pe			
Location	Volume ^a	Vol ^b	K Factor ^c	Dir. Dist.	Volume	K Factor	Dir. Dist.	
Log City Rd (CR 17)	2,098	157	7.5%	59% EB	217	10.3%	53% WB	

Table 1 Existing Traffic Volume Summary

Source: NYSDOT volume data dated June 2016.

Note: Peak hours do not necessarily coincide with the peak hours of turning movement counts.

a. Daily traffic expressed in vehicles per day (vpd).

b. Peak hour volumes expressed in vehicles per hour.

c. Percent of daily traffic which occurs during the peak hour.

As shown in Table 1, Log City Road carries approximately 2,098 vpd on a typical weekday, with 7.5% of the daily traffic occurring during the weekday morning peak hour and 10.3% occurring during the evening peak hour. Log City Road traffic is heavier in the eastbound direction during the morning peak hour and slightly heavier in the westbound direction during the evening peak hour.

Peak hour turning movement counts (TMCs) were conducted by NYSDOT at the study intersection on May 25, 2020 from 3:00 to 5:45 PM and on May 27, 2020 from 7:00 to 9:00 AM. Based on the count data, the peak hours occurred from 7:15 to 8:15 AM and 4:15 to 5:15 PM. Consistent with guidance provided by NYSDOT, the existing traffic volumes were reviewed and adjusted to account for the change in traffic volumes and travel patterns associated with the COVID-19 pandemic. Other data sources used to adjust



the May 2020 TMCs included automatic traffic recorder (ATR) data collected in 2009 and 2019 on NY Route 30, ATR data collected in 2016 and 2020 on Log City Road, and ATR data collected in 2019 on Maple Avenue. To represent more typical conditions, the westbound left-turn, through, and right-turn movements and the eastbound through movement were increased slightly. The 2020 Existing traffic volumes are illustrated on Figure 1. The traffic volume count data is provided in Attachment C.

Multi-Modal Accommodations

As noted, sidewalks are not provided in the study area on Log City Road; however, sidewalks are provided on the west side of NY Route 30. Marked crosswalks, indicators, countdown timers, and pushbuttons are provided on the eastbound and northbound approaches to the Log City Road/NY Route 30/Maple Avenue intersection with a small sidewalk segment in the southeast quadrant of the intersection. Pedestrians on Log City Road share the travel lane with vehicles and use the available paved shoulders between Log City Road Extension and NY Route 30.

NY Route 30 is a signed bicycle route. On Log City Road, bicyclists use the paved shoulders where available or share the road with vehicles.

Transit service in the study area is provided by the Gloversville Transit System with stops further south on NY Route 30 at The Amsterdam Commons and Sanford Farms Shopping Centers on weekdays, with four transit runs between 8:20 AM and 3:30 PM.

Future Conditions

To determine the impacts of the site-generated traffic volumes near the site, future traffic conditions were evaluated. The project is expected to be fully built and occupied in 2026.

Traffic growth on area roadways is a function of the expected land development, environmental activity, and changes in demographics. A frequently used procedure is to identify estimated traffic generated by planned developments that would be expected to affect the project study area roadways. An alternative procedure is to estimate an annual percentage increase and apply that increase to study area traffic volumes. For this evaluation, <u>both</u> procedures were used. The following summarizes this traffic forecasting process.

Historic Growth

Regression analyses performed using data published by the NYSDOT showed that there is little traffic growth in the study area. To be consistent with other recent traffic studies completed in the study area and based on NYSDOT historical data, the 2020 existing traffic volumes were increased by a small growth rate of 0.5% for 6 years to represent any general increase in traffic volumes by 2026.

Site Specific Growth

Information provided by the Town Designated Engineer (TDE) for the Town of Amsterdam identified the following other development projects to consider in the estimation of future traffic volumes:



- St. Mary's Rao Outpatient Pavilion Addition, located at St. Mary's hospital south of Log City Road on NY Route 30 to include additional space for outpatient services relocated from existing buildings and a new pharmacy
- A 6,500 SF restaurant located south of Log City Road on the southeast quadrant of the NY Route 30/Wallins Corners Road intersection
- A 1,775 SF branch of the Sidney Federal Credit Union, located at 4839 NY Route 30 south of Log City Road
- MHA Affordable Housing Project located on Holland Circle Drive south of Log City Road to include 48 multi-family dwelling units in 4 buildings
- The 4,2000 SF Bunn Creek Animal Hospital located at 4800 NY Route 30 south of Log City Road

Trips associated with the proposed developments were added to the study area network as appropriate based on a review of available documentation provided by the TDE.

No-Build Traffic Volumes

The 2026 No-Build traffic volumes were generated by consideration of the general and site-specific growth described above. The resulting 2026 No-Build peak hour traffic volumes are provided on Figure 2 and represent future traffic volumes in the study area prior to development of the proposed project.

Trip Generation

To estimate the site-generated traffic anticipated at the project site, the Institute of Transportation Engineers' (ITE) publication *Trip Generation*, 10th Edition¹ was utilized. The number of vehicle trips generated by the proposed project was estimated based on ITE land use codes (LUC) 110 – General Light Industrial, LUC 210 – Single Family Detached Housing, and LUC 220 – Multifamily Housing (Low Rise, 1 or 2 levels). The trip generation estimate for the proposed project is summarized in Table 2.

¹ Trip Generation Manual, 10th Edition, Institute of Transportation Engineers, Washington D.C., September 2017.



Table 2 Trip Generation Summary

Weekday Time Period	Movement	Light Industrial ^a	Residential ^b	New Trips ^c
Morning Peak Hour	Enter	27	18	45
	Exit	4	<u>58</u>	<u>62</u>
	Total	31	76	107
Evening Peak Hour	Enter	3	58	61
	<u>Exit</u>	23	<u>34</u>	<u>57</u>
	Total	26	92	118

a. Trip generation estimate based on ITE LUC 110 (General Light Industrial) for 60,000 SF.

b. Trip generation estimate based on ITE LUC 210 (Single Family Housing) for 4 units and LUC 220 (Multifamily Housing) for 156 units.

c. Total new trips.

Based on the projections outlined above, the proposed project is expected to generate 107 new vehicle trips during the morning peak hour (45 entering and 62 exiting) and 118 new vehicle trips during the evening peak hour (61 entering and 57 exiting).

Trip Distribution

The directional distribution of traffic approaching and departing the site is a function of several variables including population densities, existing travel patterns, and the efficiency of the roadways leading to and from the site. Based on a review of the existing travel patterns and population centers in the area it is estimated that 40% of the site generated traffic will travel to and from the west on Log City Road and 60% will travel to and from the east on Log City Road toward NY Route 30 and Maple Avenue. Of the 60% traveling to and from the east, 15% of the site trips will travel to and from the north on NY Route 30, 35% will travel to and from the south on NY Route 30, and the remaining 10% will travel to and from the east on Log City Batterns for the industrial and residential components of the project are illustrated on Figures 3, 4, and 5 including the single-family homes and 12 of the multi-family units with a separate shared access directly to Log City Road.

Build Traffic Volumes

The project-related traffic volumes shown in Table 2 were assigned to the study area roadway network based on the trip distribution patterns and are summarized on Figures 3-5. These assigned volumes were then added to the 2026 No-Build peak hour traffic volumes to develop the 2026 Build peak hour traffic volumes. The 2026 Build traffic volumes are summarized on Figure 6.

Traffic Operations Analysis

To assess quality of flow, intersection capacity analyses were conducted with respect to 2020 Existing, 2026 No-Build, and 2026 Build traffic volume conditions. Capacity analyses provide an indication of how



well the roadway facilities serve the traffic demands placed upon them. Roadway operating conditions are classified by calculated levels of service.

The evaluation criteria used to analyze the study area intersections is based on the procedures set forth in the latest version of the *Highway Capacity Manual* (HCM)². Level of service (LOS) is a measure that considers a number of factors including roadway geometry, speed, and travel delay. Levels of service range from A to F, with LOS A representing short vehicle delays and LOS F representing long vehicle delays.

Intersection Capacity Analysis

Levels of service analyses were conducted for the 2020 Existing, 2026 No-Build, and 2026 Build conditions for the study area intersection and at the new site driveway intersection for the 2026 Build condition. Table 3 summarizes the capacity analysis results for the study area intersection and three site driveways. The fourth site driveway on Log City Road servicing 12 condominium units was analyzed qualitatively due to the low peak hour traffic volumes at this intersection. The capacity analyses worksheets are included in Attachment D.

The following is noted regarding the analysis summarized in Table 3:

- The project is expected to have minimal impacts on traffic operations at the signalized study area intersection during the AM and PM peak hours, with average vehicle delays of 18 seconds or less on all approaches during both peak hours and good overall intersection operations (LOS B). These results are consistent with current operations.
- The three proposed site driveways on Log City Road will operate with good levels of service (LOS A/B) and minimal delays as unsignalized intersections with single lanes entering and exiting the site at all three locations.
- The fourth site driveway intersection with Log City Road providing access to 12 condominium units is expected to serve approximately 4 AM peak hour trips and 7 PM peak hour trips. As shown in Table 3, the Residential Driveway West providing access to 70 condominium units operates at LOS A conditions with little vehicle delays. This lower volume intersection will also operate at good conditions with little vehicle delays.

² Highway Capacity Manual, 6th Edition, Transportation Research Board, Washington D.C., 2016.

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Table 3 Intersection Levels of Service Summary

	2020 Existing		<u>2026 No-Build</u>		<u>2026 Build</u>	
Location/Movement	LOS ^a	Delay ^b	LOS	Delay	LOS	Delay
Log City Road (CR 17)/NY Rt 30 (Perth Rd)/M	/aple Avenue (CR 39)			
AM Peak Hour						
Log City Road EB LTR	В	16	В	17	В	18
Maple Avenue WB LTR	В	16	В	17	В	18
NY Rt 30 NB L	A	8	Α	8	А	8
T,TR	А	7	А	7	А	7
NY Rt 30 SB L	А	5	А	5	А	5
TR	В	13	В	15	В	16
Overail	В	11	В	12	В	13
PM Peak Hour						
Log City Road EB LTR	В	16	В	16	В	17
Maple Avenue WB LTR	В	17	В	17	В	17
NY Rt 30 NB L	А	7	A	7	А	7
T,TR	А	8	А	9	А	9
NY Rt 30 SB L	А	6	А	6	А	7
TR	А	10	В	11	В	12
Overall	A	10	В	10	В	11
Log City Road Extension (CR 17)/	Industrial D	riveway				
AM Peak Hour						
Log City Road WB LT					A	8
Industrial Dwy NB LR					А	10
PM Peak Hour						
Log City Road WB LT					A	8
Industrial Dwy NB LR					А	10
Log City Road Extension (CR 17)/	Residential	Driveway (East))			
AM Peak Hour			·			
Log City Road WB LT					A	8
Residential Dwy (East) NB LR					A	9
PM Peak Hour				1		
Log City Road WB LT					А	8
Residential Dwy (East) NB LR					A	10
Log City Road (CR 17)/Residentia	Driveway	(West)		1		
AM Peak Hour		<u> </u>		· · · · /···· · · · · · · · · · · · · ·		
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PM Peak Hour					/\	
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Residential Dwy (West) NB LR					В	10
Lowel of copyico	-			. 1	5	10

a. Level of service

b. Average total delay, in seconds per vehicle

Na Not applicable



Travel To and From the West

As noted previously, 40% of the site generated traffic will travel to and from the west toward McKay Road. This equates to approximately 43 new vehicle trips during the AM peak hour (18 eastbound and 25 westbound) and approximately 47 new vehicle trips during the PM peak hour (24 eastbound and 23 westbound). This equates to less than one new car per minute during either peak hour. The number of new trips is also less than the addition of 100 trips on any one approach to an adjacent intersection, which is the NYSDOT and ITE threshold for determining the need for off-site intersection analysis. Therefore, the new trips to and from the west will be adequately serviced by Log City Road/McKay Road intersection.

Sight Distance

Sight distance analysis, in conformance with guidelines of the American Association of State Highway and Transportation Officials (AASHTO)³ was performed at the proposed site access intersections on Log City Road. Both stopping sight distance (SSD) for traffic approaching the site roadways and intersection sight distance (ISD) at the site roadways were measured. The posted speed limit on Log City Road is 45-mph. Based on travel speed data collected for the project on Log City Road, the 85th percentile operating speed was measured to be 52-mph in the eastbound direction and 53-mph in the westbound direction; therefore, the sight distance evaluation was completed for a 55-mph operating speed. to the anticipated land use and the potential for a higher percentage of heavy vehicles entering and exiting the site at the industrial driveway, sight distance measurements were completed from the perspective of both passenger vehicles and heavy vehicles, while the residential access sight distance measurements were completed from the perspective of passenger vehicles.

SSD is the distance along the roadway for a vehicle approaching an intersection from either direction to perceive, react and come to a complete stop before colliding with an object in the road, in this case a vehicle exiting from a driveway or a vehicle waiting on the mainline to turn into the site. Table 4 summarizes the stopping sight distance evaluation at the site access intersections. The stopping sight distance distance guideline is not affected by vehicle type, so Table 4 only provides one comparison.

Stopping sight distance was also reviewed along Log City Road approaching the single-family driveways with access directly to Log City Road. Consistent with industry practices, these locations were only reviewed for stopping sight distance due to the very low number of trips entering and exiting each driveway.

³ A Policy on the Geometric Design of Highways and Streets, 7th Edition, American Association of State Highway and Transportation Officials, 2018.



Table 4Stopping Sight Distance

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Location	Traveling	Measured (feet) ^a	Guideline (feet) ^b
Less City Develoption durated Delegan	EB	700+	405
Log City Road at Industrial Driveway	WB	700+	495
Log City Road at Residential	EB	700+	405
Driveway (East Access)	WB	700+	495
Log City Road at Residential	EB	650	405
Driveway (West Access)	WB	650	495
Log City Road at Access to 3	EB	700+	405
Buildings	WB	700+	495
Log City Road at Single Family Lot	EB	700+	(05
(East)	WB	700+	495
Log City Road at Single Family Lot	EB	700+	405
(West)	WB	700+	495

a. Based on field measurements taken by VHB.

b. Based on standards established in <u>A Policy on the Geometric Design of Highways and Streets</u>, American Association of State Highway and Transportation Officials, 2018 for a 55-mph operating speed. Note passenger and heavy vehicle measurements and guidelines are the same for stopping sight distance.

A review of Table 4 shows that the stopping sight distances meet the AASHTO guidelines for the operating speed at the proposed site access roadways and individual driveways.

ISD is based on the time required for perception, reaction, and completion of the desired turning maneuver into or out of the site driveway. Calculation of the ISD includes the time to (1) turn and clear the intersection without conflicting with approaching vehicles; and (2) upon turning, to accelerate to the operating speed on the roadway without causing approaching vehicles on the main road to unduly reduce their speed. Table 5 summarizes the intersection sight distance analysis for passenger vehicles at all four site roadways and heavy vehicles at the industrial access.



Table 5 Intersection Sight Distance

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		Field Measurement	AASHTO Guideline (feet) ^b		
Location	View	Distance (feet) ^a	Left-turn Out	Right-turn Out	Left-turn In
Las City Dood at	Looking Left	1000+	610	530	Na
Log City Road at Industrial Driveway	Looking Right	1000+	610	Na	Na
(Passenger Vehicles)	Looking Straight	700+	Na	Na	445
Log City Road at	Looking Left	1000+	930	850	Na
Industrial Driveway	Looking Right	1000+	930	Na	Na
(Heavy Vehicles)	Looking Straight	700+	Na	Na	610
Log City Road at Residential Driveway	Looking Left	700+	610	530	Na
	Looking Right	700+	610	Na	Na
(East Access)	Looking Straight	700+	Na	Na	445
Log City Road at	Looking Left	650	610	530	Na
Residential Driveway	Looking Right	630	610	Na	Na
(West Access)	Looking Straight	650	Na	Na	445
	Looking Left	530 (650)	610	530	Na
Log City Road at Access to 3 Buildings	Looking Right	700+	610	Na	Na
Access to 5 buildings	Looking Straight	700+	Na	Na	445

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a. Based on field measurements taken by VHB.

b. Based on standards established in <u>A Policy on the Geometric Design of Highways and Streets</u>, American Association of State Highway and Transportation Officials, 2018 for a 55-mph operating speed.

Na Not applicable

(###) = Existing Measurement (Measurement with mitigation)

A review of Table 5 shows that the intersection sight distances meet the recommended AASHTO guideline for a 55-mph operating speed with the exception for the sight distance looking left when exiting the access to the 3 condominium buildings which is limited by some existing vegetation. By clearing the vegetation, the sight distance looking left meets the AASHTO guideline. To maintain good sight lines at all of the site access intersections and the individual driveways, any vegetation along the site frontage should be cleared a minimum of 14.5 feet back from the travel way and any site signing be placed outside of the 14.5-foot clear zone

Conclusions

VHB has conducted a traffic impact and access study to assess the potential traffic impacts associated with the construction of the Concord Development located on the southern side of Log City Road (CR 17) in the Town of Amsterdam. The proposed project includes the construction of 4 single-family homes, 82 condominium units, 74 apartment units, and up to 60,000 SF of light industrial space on Log City Road.



Access to the site is proposed via four new full access roadways intersecting Log City Road; one is a shared driveway to three condominium buildings, the second provides direct access to the majority of the condominium units, the third provides direct access to the apartment units (Log City Road Extension), and the fourth provides access to the industrial land uses (Log City Road Extension). Two of the internal site roadways will connect and provide access between the majority of the condominium units and the apartment units. Individual driveways with direct access to Log City Road are provided for the four single-family homes. The project is anticipated to be fully constructed in 2026. The following is noted:

- The proposed project is expected to generate 107 new vehicle trips during the morning peak hour (45 entering and 62 exiting) and 118 new vehicle trips during the evening peak hour (61 entering and 57 exiting).
- The project is expected to have minimal impacts on traffic operations at the signalized study area intersection with good overall intersection operations and average vehicle delays consistent with current operations.
- The proposed site driveways will operate with good levels of service and minimal average vehicle delays as unsignalized intersections with single lanes entering and exiting the site at all four locations.
- Approximately 40% of the site generated traffic is expected to travel to and from the west
 resulting in an increase of 43 new vehicle trips (18 eastbound and 25 westbound) during the AM
 peak hour and 47 new vehicle trips (24 eastbound and 23 westbound) during the PM peak hour.
 Based on ITE and NYSDOT industry guideline thresholds, the additional trips will be
 accommodated for on the existing roadway network.
- The sight distance evaluation shows that the stopping and intersection sight distances meet the AASHTO guidelines for a 55-mph operating speed with the exception of the sight distance looking left out of the driveway to the three condominium buildings. By clearing the vegetation obstruction, the sight distance meets AASHTO guidelines. To maintain good sight lines at the sight access roadways and individual driveways it is recommended that all vegetation be cleared a minimum of 14-5 feet back from the travel way along the project frontage and any site signing be placed outside the 14.5-foot clear zone.

The proposed development with residential and industrial land use will be adequately serviced by the existing roadway network and no off-site mitigation is recommended. Please call with any questions regarding the above evaluation.

Sincerely,

VHB Engineering, Surveying, Landscape Architecture and Geology, P.C

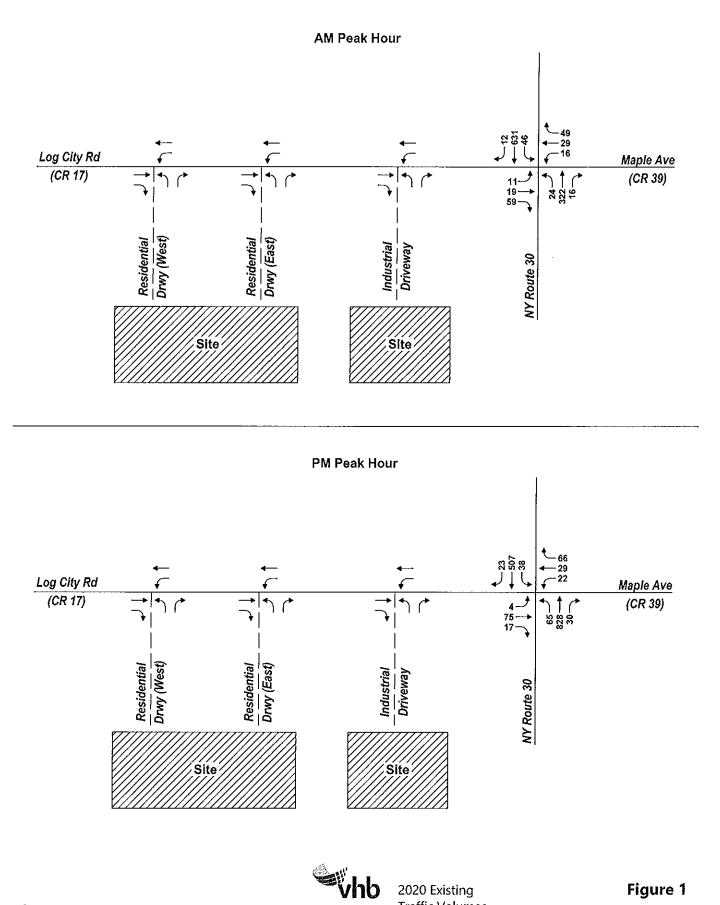
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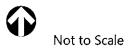
Office Manager - Albany wholsberger@vhb.com

Alanna M: Moran

Project Manager amoran@vhb.com

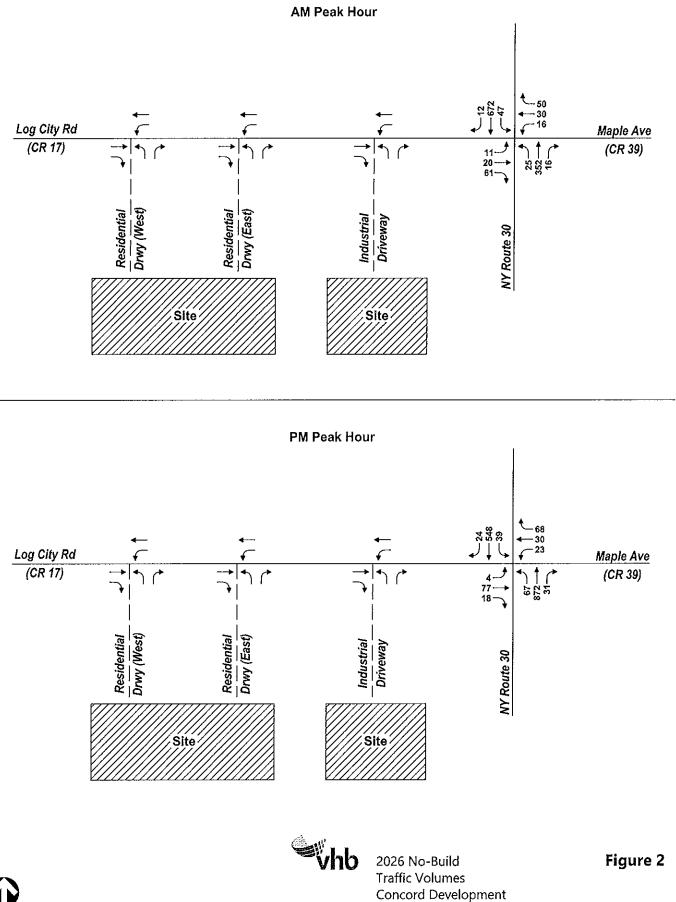
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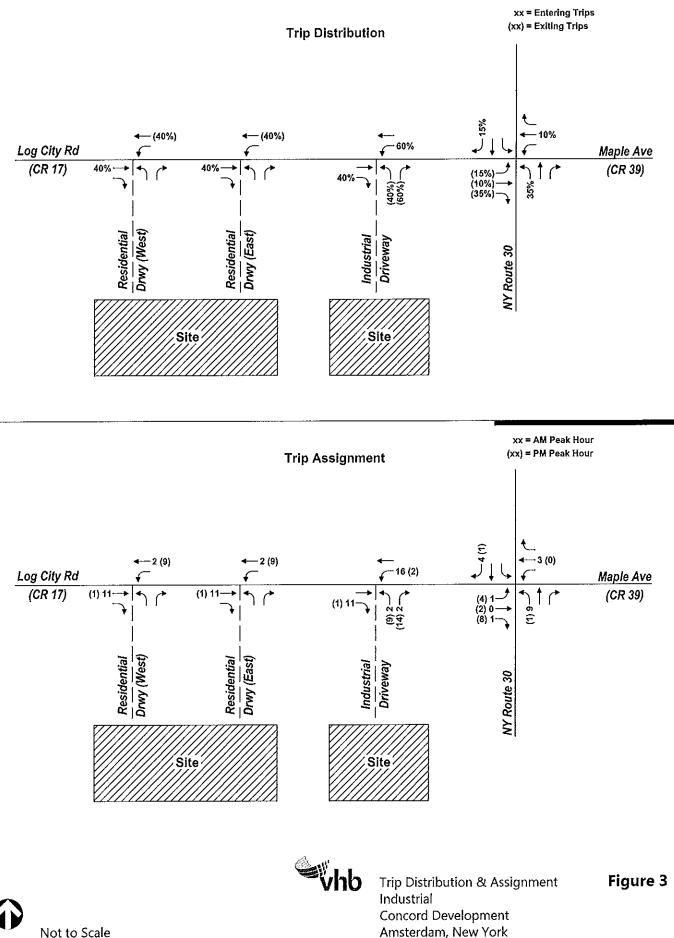
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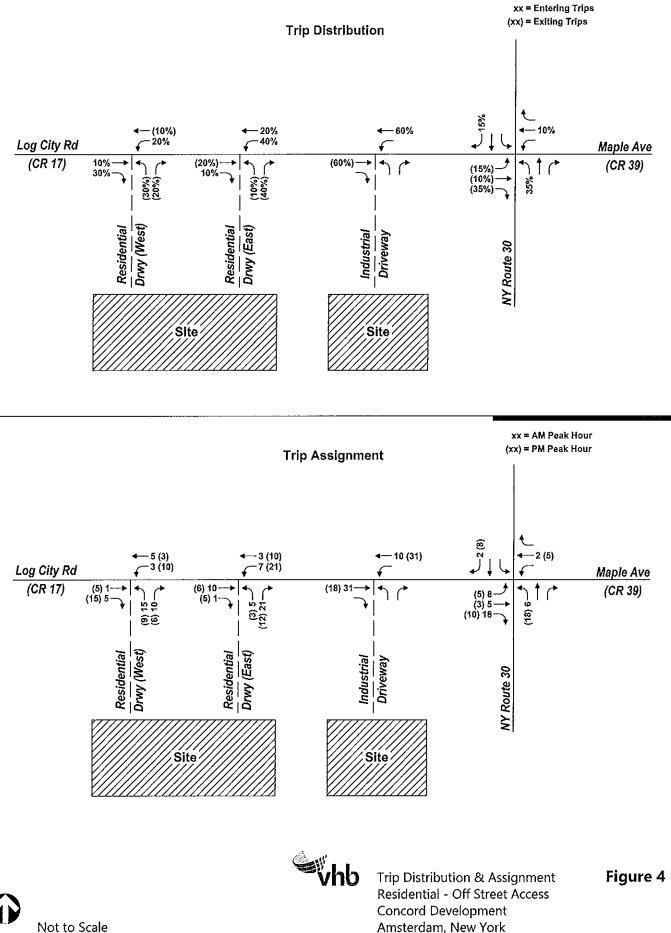
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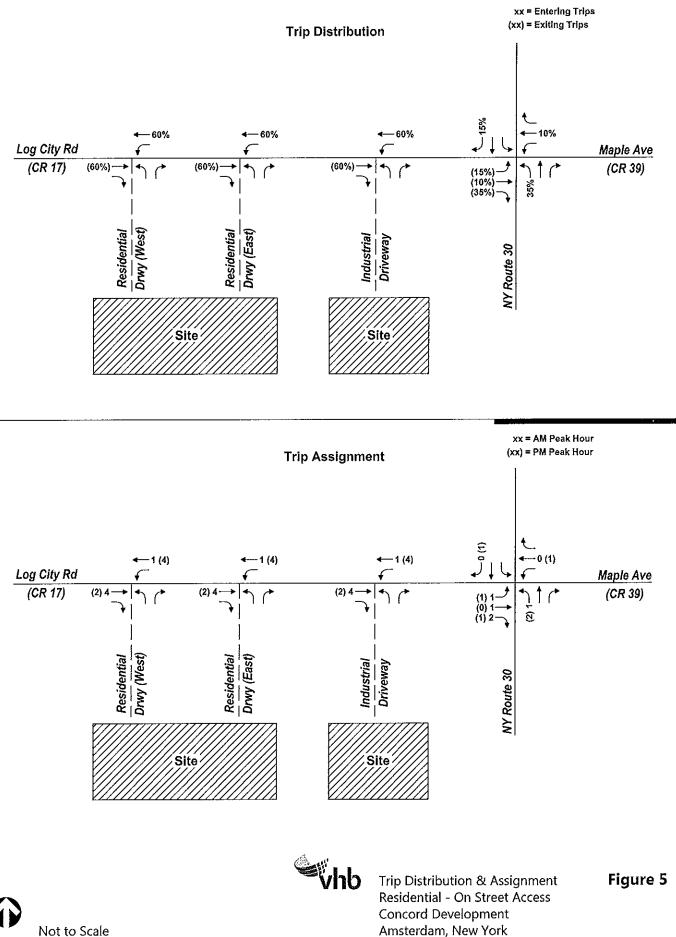
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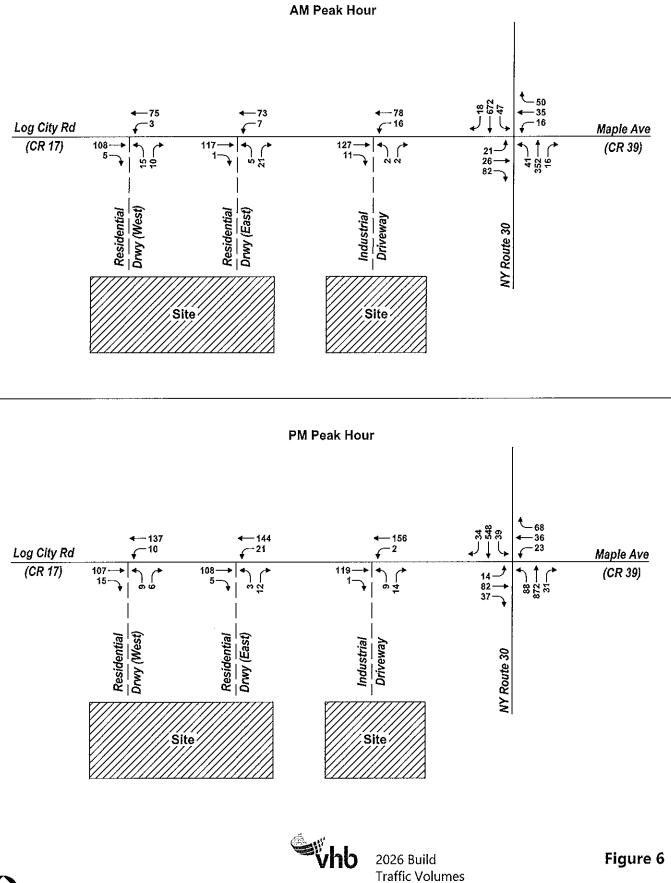
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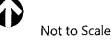
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Concord Development

Amsterdam, New York



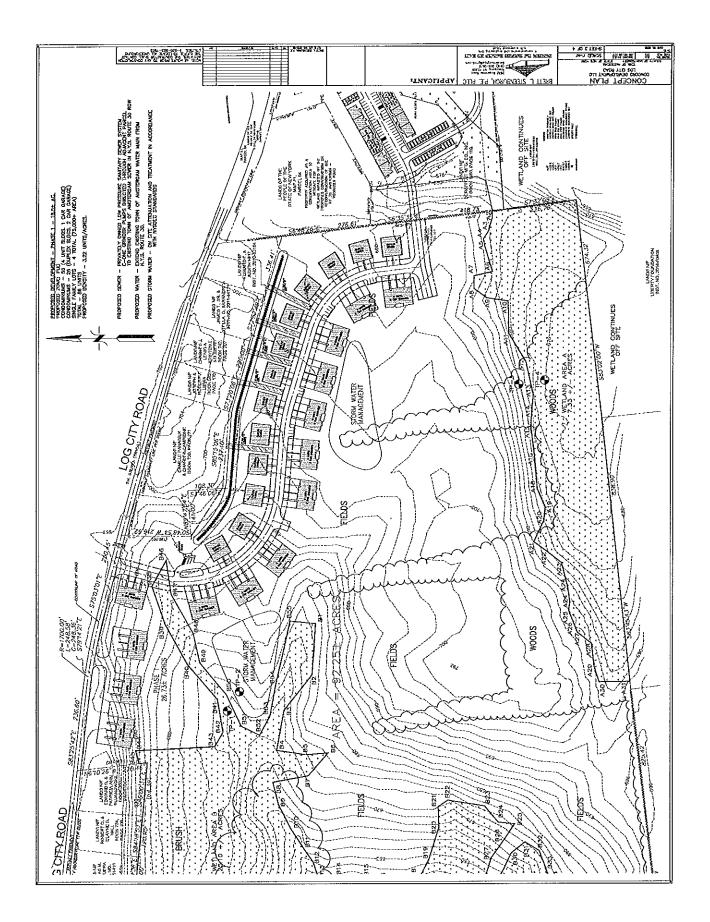
Appendix

A. Overall Development Plan

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- B. Automatic Traffic Recorder Data
- C. Peak Hour Volume Data
- D. Capacity Analysis Worksheets

Appendix A – Overall Development Plan



Appendix B – Automatic Traffic Recorder Data

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Iraffic Count Hourly Report	FROM: MCKAY RD REC. SERIAL #: BT88 PLACEMENT: 500' east of mckay @ REF MARKER: ADDL DATA: Class Speed COUNT TYPE: AXLE PAIRS PROCESSED BY: ORG CODE: I	연 <u>년</u> ~	88 2 2 8 8 3 7 3 8 8 8 8 9 7 3 8 9 7 3 8		-actor 73	AVERAGE WEEKDAY 1 Hour % of (~	
õ	FROM: MCKAY RD REC. SERIAL #: BT88 PLACEMENT: 500' east of m @ REF MARKER: ADDL DATA: Class Speed COUNT TYPE: AXLE PAIRS PROCESSED BY: ORG CO	÷55≓	71 855 857 857 855 855		72 T2	GE M		FROM: MCKAY RD
rattic	FROM: MCKAY RD REC. SERIAL # B1 PLACEMENT: 500 @ REF MARKER: ADDL DATA: Class COUNT TYPE: AXI PROCESSED BY:	55 <i>±</i>	888822288		250	AVERA High Hour	117	CKAY
-	OM: M C. SEF ACEMI ACEMI PL DA OCES	9 10 10	88288888888			High	÷	OM: M
	₩₩ ₩ ₩ 0 € 0 € 0 € 0 € 0 €	8 ი ს ს ს ს ს ს	72 567 567 564		2 2 2 2 2 2			Ű.
	33 30 		487 228 50 50 50 50 50 50 50 50 50 50 50 50 50		84 L 64 L	주 의 채	ģ	
	≺RD 	~07 8	53355 ^{2 - 1} 58		23 EK	WEEKD/ Hours	136	
	E: LOG CITY RD FACTOR GROUP: WK OF YR: WK OF YR: IALS: DKS	AM 70	みちらイアアらら		S	WEEKDAYS WEEKDAY Counted Hours	Q	(RD
	ME: LI FAC WK	မင္က	です す Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z		ŝ	山 Son Son	-	C C L
	ROAD NAME: LOG CITY RD FACTOR GROUF WK OF YR: WTG INITIALS: DKS	5 To 4	-08440					С С С С С
	d ROJ	ωČ4	02007778		~	JRS Ited	ğ	ROAD NAME: LOG CITY RD
	x CR17 Westbound 7 06/01/2016 ORG COD	ωQω	N- m4 m NOO		۴	HOURS Counted	202	ROAL
	CR CR17 Westbou E: 7 I: 06/01/201 SY: ORG C	⊷₽∾	4 τ το ^τ ό τ το το το		3	୍ଲ ପ୍ର		
	N: CODI NE 1: KEN B	₽₽- <u></u>				DAYS Counted	თ	R17 258020
	ROAD #: CR CR17 ROAD NAME: LOG CI1 DIRECTION: Westbound FACTOR G STATE DIR CODE: 7 WK OF YR DATE OF COUNT: 06/01/2016 NOTES LANE 1: COUNT TAKEN BY: ORG CODE: MTG INITIALS: DKS	DATE DAY	- 484 886 886 886 886 886 886 886 886 886	75888888888888888888888888888888888888		U.		ROAD # CR17

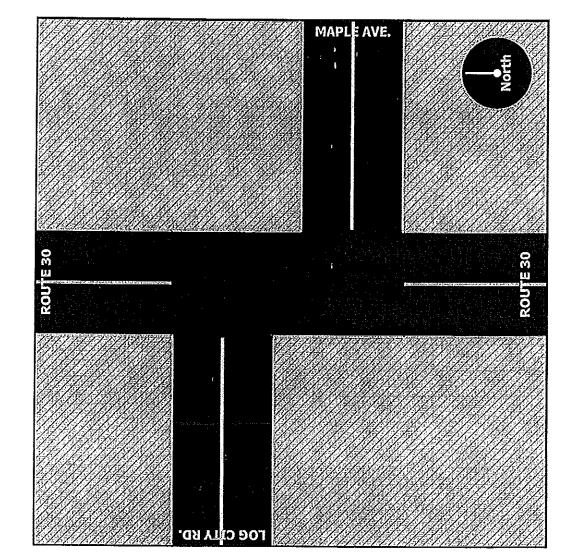
Appendix C – Peak Hour Volume Data

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File ame : untitled0: Site Code : 0002222 Start Date : 05/27/20 Page No : 4

PLANNING & PROGRAM DATA RVICES UNIT

> (ard # tserver: D. Clements & M. Davis eather: Sunny



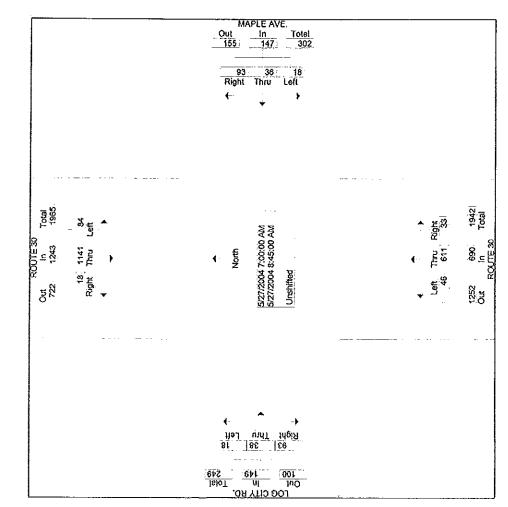
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	Fileme	Site Code	Start Da	Page No		Exclu.		16	21	19	26	83	16	ង	28	20	95	177		7.4	
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					ΥRD.	Left	1.0	2	£	რ	~	12	۴-	ო		،	Q	18	12.1	0.8	
					LOG CITY RD Eacthound	Thru	1.0	4	ო	ω	ო	18	ъ	9	4	ιń	20	38	25.5	1.7	
						Right	1.0	် ဖ	15	4	24	20	Q	თ	ú	41	\$	93	62.4	4.2	
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りつとし	DATA & . RVICES UNIT				Groups Printed- Unshifted ROUTE 30 Northbound	Thru	1.0	49	75	Ľ	8	290	8	76	67	85 85	321	611	88.6	27.4	
ð runnin	<u>کې</u> در			1	ups Printec	Right	1.0	4	ო	ო	9	16	4	4	ഹ	4	17	33	4.8	ህ ም	
	DATA			•	0 O	₹	1.0	0	4		***	Ö	-	<u>N</u>	~	~	Q	12			
					E AVE.	Left	1.0	0	ო	2	ო .	ω	m	2	ŝ	0	10	5 28	12.2	0.8	
					MAPLE AVE Westbound	Thru	0.1	N	11	4	-	18	ς γ	12	ر ي	0	18	36	24.5	1.6	
						Right	1.0	10	တ	ω	연 1	Ř	5	1 3	9 1 0	15	55	93	63.3	4.2	
		10				_ ₹	1.0	2	ω	ç	ထ်	33	໑	σ	9	5	46	78			
		A. Davi:			ROUTE 30 Southbound	Left	1.0	4	13	4	₽	49		ŝ	4	с О	35	\$	6.8	3.8	
		nts & N			ROU South	Thru	1.0						146	127	128	139	540	1141	91.8	51.2	
		Cleme	hny			Right	10							2					1,4		
	(ard #	tserver: D. Clements & M. Davis	eather: Sunny			Start Time	Factor	07:00 AM	07:15 AM	07:30 AM	07:45 AM	Total	08:00 AM	08:15 AM	08:30 AM	08:45 AM	Total	Grand Total	Apprch %	Total %	

PLANNING & PROGRAM DATA L . RVICES UNIT

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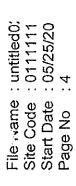


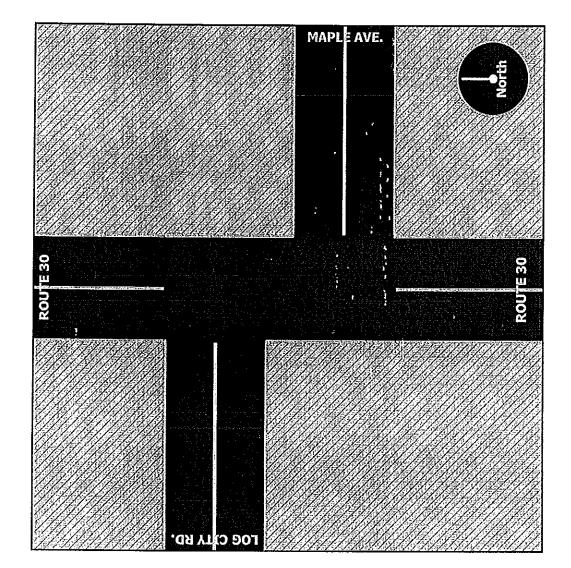
tard # tserver: D. Clements & M. Davis eather: Sunny	& M. Davis			L		PLANNIN''3 & PROGRAM DATA & XVICES UNIT	COGRAM S UNIT	-					Fileme Site Code Start Date Page No	() () ()	: untitled0: : 0002222 : 05/27/20 : 3	
ROUTE 30 Southbound Start Time Right Thru Left & Hour From 07:00 AM to 08:45 AM - Peak 1 of 1	ROUTE 30 Southbound Thru Left 5 AM + Peak 1 of 1	App. Total	Right	MAPLE AVE. Westbound Thru	AVE. und Left	/E. Id Left App. Total	Right	ROUTE 30 Northbound Thru Le	30 Left	0 ld Left App. Total	Right	LOG CITY RD. Eastbound Thru Left		App. Total	Int Tot	ct.
Intersection 07:15 AM Volume 12 Percent 1.7 07:45 Volume 2	631 46 91.6 6.7 172 10		39 56.5 12	19 27.5	15.0 15.0 3	69 16	4 م 1 م 4 م	322 89.0 93	24 6.6 7	362 106	59 66.3 24	21.5 3.3	12.1 2.4	80 80 17 80	120 33	0 6
Peak Factor High Int. 07:45 AM Volume 2 Peak Factor	172 10	184 0.936	07:15 AM 184 0.936	11	က	07:45 AM 22 6 0.784	7:45 AM 6	8	٢	106 0.854	07:45 AM 24	т	2	29 0.767	0.902	
							Total 1061									
			↓ ໂ)ອງ ກາບ⊥ ໄປຄືນ 1 61 65	-	522 522 1,22	North 15:27/2004 7:15:00 AM 5:227/2004 8:00:00 AM	22		← ·}	HAPLE AVE. Out in Total 81 69 150 39 19 11 Right Thru Left						
					ort 20 041 - ↓	eft Thru N ⊐ ↔ 322 54	Right • 166 1063									

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		Inclu.		353	395	414	386	1548	395	414	427	388	1624	404	388	383	4347	2	96.0
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	RD, Ind	Left	1.0	2	۳	ę	2	8	2	۲	7	N :	Q	0	2	Ŧ	17	13.6	4.0
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LIN LIN	ound Sund	Left	1.0		t.	7	4.	ŝ	16	11	16	5	53	26	12	17	143	6.2	8.8 8
CES U	Unshifted ROUTE 30 Northbound	Thru	1.0	175	169	179	176	669	194	226	207	101	821	201	185	175	2081	90.3	47.9
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		Right	1.0	<u>;</u>	9	53	ង	78	12	6	<u>1</u> 3	<u>6</u> 1	21	21	17	0 0	192	69.8	4
		Ş	1.0	29	2	6	ហៀ	37	2	5	ę	~	36	Q	ŋ	ø	8		
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0 Clerr	ROUTE 30 Southbound	Thru	0.1	22	<u>6</u>	161	46	582	118	129	136	123	208	119	129	120	1456	88.7	33.5
avis & I īy	-	Right	1.0	4 (N	មា	2	13	11	ო	თ	o	52	ŝ	ហ	ை	61	3.7	1,4
ưard # tserver: M Davis & D Clements eather: Sunny		Start Time	Factor	03:00 PM	NH GLISO	03:30 PM	03,45 PM	Total	04:00 PM	04:15 PM	04:30 PM	04:45 PM	Total	05:00 PM	05:15 PM	05:30 PM	Grand Total	Apprch %	Totai %

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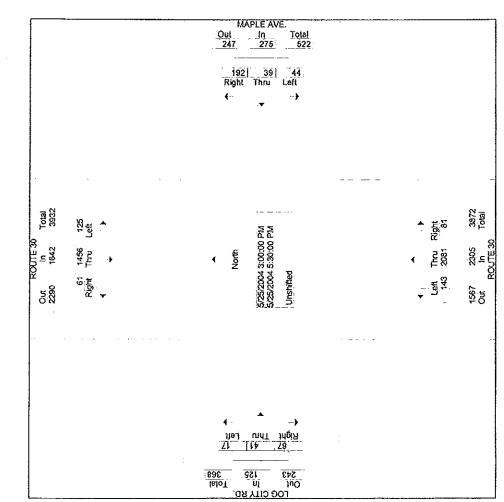
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	pp. Total	4 12 12	13 0.769			
File wame Site Code Start Date Page No	Ƴ RD. bund Left ⊟App. Total	4 0 0 4 0 t	N			
	LOG CITY RD. Eastbound Thru Left	19 67.5 6	Q			
	Right	42.5 5	04:45 PM 6		MAPLE AVE.	
	App. Total	923	244 0.946		Out In Total 87 102 189 	
	E 30 bund Left	65 7.0 16	t		€ →	
5.	ROUTE 30 Northbound Thru	828 89.7 207	226			
COGRAI S UNIT	Right	33.30	04:15 PM 7	10tal 1466 38 38	~~	Right 30 Total
PLANN'''''''''''''''''''''''''''''''''''	App. Total	102 24	29 0.879 0.879	Out ROUTE 30 898	Anth North 5/25/2004 4:15:00 PM 5/25/2004 5:00:00 PM	Ste Ste P
DATA	AVE. ound Left	22 21.6 8	ம		<u> 38 5</u>	~~~
-	MAPLE AVE Westbound Thru Lef	14 13.7 3	ฑ			
	Right	66 64.7 13	05:00 PM 21		+ 10 10 110 10 + 10 10 + 10 10	
	App. Total	568 163	163 0.871		17 19 4 Out In Total 102 CITY RD.	
nts	E 30 bound Left ak 1 of 1	38 6.7 18	18			
Cleme	ROUTE 30 Southbound Thru Le	507 89.3 136	136			
/is & D	Right M to 05:3	415 PM 23 9	04:30 PM 9			
⟨ard # tserver: M Davis & D Clements eather: Sunny	Start Time ≰k Hour From 03:00 F	Intersection 04:15 PM Volume 23 507 38 Percent 4.0 89.3 6.7 04:30 Volume 9 136 18 Peartor	High Int. 04 Volume Peak Factor			

PLANNIN'S & PROGRAM

Appendix D – Capacity Analysis Worksheets

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		- ↔			ф		ሻ	∱ ⊅		ኻ	₽	
Traffic Volume (veh/h)	11	19	59	16	29	49	24	322	16	46	631	12
Future Volume (veh/h)	11	19	59	16	29	49	24	322	16	46	631	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00	4.00	1.00	1.00	4.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	4070	No	6070	4070	No	4070	1015	No	4070	4045	No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1945	1870 358	1870 18	1945	1870 701	1870 13
Adj Flow Rate, veh/h	12 0.90	21 0.90	66 0.90	18 0.90	32 0.90	54 0.90	27 0.90	0.90	0.90	51 0.90	0.90	0.90
Peak Hour Factor	0.90 2	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, % Cap, veh/h	ے 116	ے 57	ے 145	2 129	82	2 115	331	2 1545	77	662	853	16
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.03	0.45	0.45	0.02	0.47	0.47
Sat Flow, veh/h	114	429	1085	180	615	858	1853	3444	173	1853	1830	34
Grp Volume(v), veh/h	99	425	0	100	010	0.00	27	184	192	51	0	714
Grp Sat Flow(s), veh/h/ln	1627	Ő	ŏ	1653	ŏ	ŏ	1853	1777	1839	1853	Ő	1864
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.6	2.6	0.6	0.0	13.3
Cycle Q Clear(g_c), s	2.2	0.0	0.0	2.2	0.0	0.0	0.3	2.6	2.6	0.6	0.0	13.3
Prop In Lane	0.12		0.67	0.17	0.0	0.52	1.00		0.09	1.00		0.02
Lane Grp Cap(c), veh/h	319	0	0	327	0	0	331	797	825	662	0	869
V/C Ratio(X)	0.31	0.00	0.00	0.32	0.00	0.00	0.08	0.23	0.23	0.08	0.00	0.82
Avail Cap(c_a), veh/h	702	0	0	711	0	0	514	1108	1146	813	0	1162
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.0	0.0	0.0	16.0	0.0	0.0	7.7	6.8	6.8	5.4	0.0	9.3
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.0	0.0	3.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/in	0.7	0.0	0.0	0.6	0.0	0.0	0.1	0.6	0.6	0.1	0.0	3.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.2	0.0	0.0	16.2	0.0	0.0	7.7	6.9	6.9	5.4	0.0	12.9
LnGrp LOS	В	А	A	В	A	А	А	А	А	А	A	В
Approach Vol, veh/h		99			104			403			765	
Approach Delay, s/veh		16.2			16.2			7.0			12.4	
Approach LOS		В			В			А			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.7	23.0		10.4	6.0	23.7		10.4				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Max Q Clear Time (g_c+l1), s	2.6	4.6		4.2	2.3	15.3		4.2				
Green Ext Time (p_c), s	0.0	1.8		0.2	0.0	3.1		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			11.4									
HCM 6th LOS			B									
			D									

Notes

User approved pedestrian interval to be less than phase max green.

\\vhb\gbl\proj\Albany\20492.00 Concord Log City Amster\tech\Synchro\EX_am.syn VHB DDW

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4)			4		ሻ	<u>↑</u> ₽		ካ	₽	
Traffic Volume (veh/h)	11	20	61	16	30	50	25	352	16	47	672	12
Future Volume (veh/h)	11	20	61	16	30	50	25	352	16	47	672	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1945	1870	1870	1945	1870	1870
Adj Flow Rate, veh/h	12	22	68	18	33	56	28	391	18	52	747	13
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	112	57	143	125	81	114	312	1601	74	655	879	15
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.03	0.46	0.46	0.04	0.48	0.48
Sat Flow, veh/h	111	434	1089	175	615	868	1853	3460	159	1853	1833	32
Grp Volume(v), veh/h	102	0	0	107	0	0	28	200	209	52	0	760
Grp Sat Flow(s),veh/h/ln	1633	0	0	1658	0	0	1853	1777	1842	1853	0	1865
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.3	2.8	2.8	0.6	0.0	14.8
Cycle Q Clear(g_c), s	2.3	0.0	0.0	2.4	0.0	0.0	0.3	2.8	2.8	0.6	0.0	14.8
Prop in Lane	0.12		0.67	0.17		0.52	1.00		0.09	1.00		0.02
Lane Grp Cap(c), veh/h	312	0	0	320	0	0	312	822	852	655	0	894
V/C Ratio(X)	0.33	0.00	0.00	0.33	0.00	0.00	0.09	0.24	0.24	0.08	0.00	0.85
Avail Cap(c_a), veh/h	680	0	0	689	0	0	487	1072	1111	798	0	1125
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.6	0.0	0.0	16.7	0.0	0.0	8.0	6.7	6.7	5.3	0.0	9.5
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.1	0.0	0.0	5.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	0.7	0.0	0.0	0.7	0.0	0.0	0.1	0.6	0.6	0.1	0.0	4.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.9	0.0	0.0	16.9	0.0	0.0	8.0	6.9	6.9	5.3	0.0	14.7
LnGrp LOS	В	A	А	В	A	А	А	A	А	А	A	В
Approach Vol, veh/h		102			107			437			812	
Approach Delay, s/veh		16.9			16.9			7.0			14.1	
Approach LOS		В			В			A			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.8	24.2		10.5	6.1	24.9		10.5				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Max Q Clear Time (g_c+l1), s	2.6	4.8		4.3	2.3	16.8		4.4				
Green Ext Time (p_c), s	0.0	2.0		0.2	0.0	3.0		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			12.3									
HCM 6th LOS			B									
			-									

Notes

User approved pedestrian interval to be less than phase max green.

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Movement EBL EBL EBR WBL WBL WBR NBL NBL NBR SBL SBL SBR Lane Configurations		٭	→	\mathbf{k}	4	←	×.	•	1	1	\$	Ļ	~
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Future Volume (veh/h) 21 26 82 16 35 50 41 352 16 47 672 18 Initial Q (2b), veh 0	Lane Configurations		4			4		ሻ	₩		ኻ	î≁	
Initial Q(Qb), veh 0													
Ped-Bike Adj(A_pbT) 1.00 <td< td=""><td>· · · ·</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>352</td><td></td><td></td><td></td><td></td></td<>	· · · ·								352				
Parking Bus, Adj 1.00 1.0			0		-	0			0			0	
Work Žone On Ágproach No No No No No Adj Sat Flow, veh/h/n 1870 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
Adj Sat Flow, veń.h/h1870187018701870187019701970187019701870194518701870194518701870187018701870187019451870<		1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Adj Flow Rate, veh/h 23 29 91 18 39 56 46 391 18 52 747 20 Peak Hour Factor 0.90 0.41 0.47 0.47 0.47 0.47 0.44 0.48 0.48 0.485 3460 159 1853 1813 49 67 V////////////////////////////////////		(070		(070	(070		4070				1015		
Peak Hour Factor 0.90													
Percent Heavy Veh, % 2 3 661 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.5 1.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>													
Cap, veh/h 121 56 139 120 92 112 323 1642 75 661 867 23 Arrive On Green 0.13 0.13 0.13 0.13 0.13 0.13 0.13 0.14 0.04 0.47 0.04 0.48 0.48 Sat Flow, veh/h 175 423 1047 170 690 845 1853 3460 159 1833 1813 49 Grp Volume(V), veh/h 143 0 0 1705 0 0 1853 1777 1842 1853 0 1862 Q Serve(g_s), s 0.9 0.0 0.0 0.0 0.5 2.9 2.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.50 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 657 0 0 671 0 0 466 1034 1072 77 0 1084 HCM Pl													
Arrive On Green 0.13 0.13 0.13 0.13 0.13 0.14 0.47 0.47 0.47 0.04 0.48 0.48 Sat Flow, veh/h 175 423 1047 170 680 845 1853 3460 159 1853 1813 49 Grp Sat Flow, veh/h 143 0 0 113 0 0 4853 3460 159 150 150 152 29 2.0 767 Grp Sat Flow, veh/h 1645 0 0.0 0.0 0.0 0.5 2.9 2.9 0.6 0.0 157.7 Cycle Q Clear(g.e), s 3.4 0.0 0.2 2.6 0.0 0.05 1.00 0.09 1.00													
Sat Flow, veh/h 175 423 1047 170 690 845 1853 3460 159 1853 1813 49 Grp Volume(v), veh/h 143 0 0 113 0 0 46 200 52 0 767 Grp Sat Flow(s), veh/h/ln 1645 0 0 1705 0 0 1853 1777 1842 1853 0 1862 Q Serve(g.s), s 0.9 0.0 0.0 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.50 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 316 0 0 323 843 874 661 0 890 V/C Ratio(X) 0.45 0.00 0.00 1.00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>													
Grp Volume(v), veh/h 143 0 0 113 0 0 46 200 209 52 0 767 Grp Sat Flow(s), veh/h/n 1645 0 0 1705 0 0 1853 1777 1842 1853 0 1862 Q Serve(g.s), s 0.9 0.0 0.0 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Cycle Q Clarg(g.c), s 3.4 0.0 0.26 0.0 0.05 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 316 0 0 324 0 0 323 843 874 661 0 880 V/C Ratio(X) 0.45 0.00 0.00 0.35 0.00 0.00 1.00													
Grp Sat Flow(s),veh/h/in 1645 0 0 1705 0 0 1853 1777 1842 1853 0 1862 Q Serve(g, s), s 0.9 0.0 0.0 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Cycle Q Clear(g, c), s 3.4 0.0 0.0 2.6 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.50 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 316 0 0 324 0 0 323 843 874 661 0 890 V/C Ratio(X) 0.45 0.00 0.00 1.00													
Q Serve(g_s), s 0.9 0.0 0.0 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Cycle Q Clear(g_c), s 3.4 0.0 0.0 2.6 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.00 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.00 0.00 0.03 843 874 661 0 890 V/C Ratio(X) 0.45 0.00 0.00 0.35 0.00 0.00 0.14 0.24 0.24 0.08 0.00 0.86 Avail Cap(c_a), veh/n 657 0 0 671 0 0 466 1034 1072 797 0 1084 HCM Platoon Ratio 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.00 0.0 0.0 0.0													
Cycle Q Clear(g.c), s 3.4 0.0 0.0 2.6 0.0 0.0 0.5 2.9 2.9 0.6 0.0 15.7 Prop In Lane 0.16 0.64 0.16 0.50 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 316 0 0 324 0 0 323 843 874 661 0 890 V/C Ratio(X) 0.45 0.00 0.00 0.35 0.00 0.14 0.24 0.24 0.08 0.00 0.86 Avail Cap(c.a), veh/h 657 0 0 671 0 0 466 1034 1072 797 0 1084 HCM Platoon Ratio 1.00													
Prop In Lane 0.16 0.64 0.16 0.50 1.00 0.09 1.00 0.03 Lane Grp Cap(c), veh/h 316 0 0 324 0 0 323 843 874 661 0 880 V/C Ratio(X) 0.45 0.00 0.00 0.35 0.00 0.01 1.02 0.24 0.08 0.00 0.86 Avail Cap(c.a), veh/h 657 0 0 671 0 0 466 1034 1.00													
Lane Grp Cap(c), veh/h 316 0 0 324 0 0 323 843 874 661 0 890 V/C Ratio(X) 0.45 0.00 0.00 0.35 0.00 0.00 0.14 0.24 0.24 0.08 0.00 0.86 Avail Cap(c, a), veh/h 657 0 0 671 0 0 466 1034 1072 797 0 1084 HCM Platoon Ratio 1.00 1.			0.0			0.0			2.0			0.0	
V/C Ratio (X) 0.45 0.00 0.00 0.35 0.00 0.00 0.14 0.24 0.24 0.08 0.00 0.86 Avail Cap(c_a), veh/h 657 0 0 671 0 0 466 1034 1072 797 0 1084 HCM Platoon Ratio 1.00 <	•		0			0			843			0	
Avail Cap(c_a), veh/h 657 0 0 671 0 0 466 1034 1072 797 0 1084 HCM Platoon Ratio 1.00<													
HCM Platon Ratio 1.00 1.0													
Upstream Filter(I) 1.00 0.00 0.00 1.00 0.00 1.00 1.00 1.00 1.00 0.00 1.00 Uniform Delay (d), s/veh 17.6 0.0 0.0 17.3 0.0 0.0 8.2 6.7 6.7 5.2 0.0 9.9 Incr Delay (d2), s/veh 0.4 0.0 0.0 0.2 0.0 0.0 0.1 0.1 0.1 0.0 0.0 6.2 Initial Q Delay(d3), s/veh 0.0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.00</td> <td>1.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						1.00	1.00						
Uniform Delay (d), s/veh 17.6 0.0 0.0 17.3 0.0 0.0 8.2 6.7 6.7 5.2 0.0 9.9 Incr Delay (d2), s/veh 0.4 0.0 0.0 0.2 0.0 0.0 0.1 0.1 0.1 0.1 0.0 0.0 6.2 Initial Q Delay(d3),s/veh 0.0													
Initial Q Delay(d3),s/veh 0.0 <t< td=""><td></td><td>17.6</td><td>0.0</td><td>0.0</td><td>17.3</td><td>0.0</td><td>0.0</td><td>8.2</td><td>6.7</td><td>6.7</td><td>5.2</td><td>0.0</td><td>9.9</td></t<>		17.6	0.0	0.0	17.3	0.0	0.0	8.2	6.7	6.7	5.2	0.0	9.9
%ile BackOfQ(50%), veh/ln 1.1 0.0 0.0 0.8 0.0 0.0 0.1 0.6 0.7 0.1 0.0 5.0 Unsig. Movement Delay, s/veh 18.0 0.0 0.0 17.5 0.0 0.0 8.3 6.8 6.8 5.3 0.0 16.1 LnGrp Delay(d), s/veh 18.0 0.0 0.0 17.5 0.0 0.0 8.3 6.8 6.8 5.3 0.0 16.1 LnGrp Delay(d), s/veh 18.0 0.0 17.5 0.0 0.0 8.3 6.8 6.8 5.3 0.0 16.1 LnGrp LOS B A A B A A A A A A A B Approach Vol, veh/h 143 113 17.5 7.0 15.4 B B B A B B B A B B B A B B B C 15.4 B B B B B B D D D D D D D<	Incr Delay (d2), s/veh	0.4	0.0	0.0	0.2	0.0	0.0	0.1	0.1	0.1	0.0	0.0	6.2
Unsig. Movement Delay, s/vehLnGrp Delay(d),s/veh18.00.00.017.50.00.08.36.86.85.30.016.1LnGrp LOSBAABAAAAAAAABApproach Vol, veh/h143113455819Approach Delay, s/veh18.017.57.015.4Approach LOSBBAABTimer - Assigned Phs124568Phs Duration (G+Y+Rc), s6.825.410.76.725.510.7Change Period (Y+Rc), s5.05.05.05.05.05.0Max Green Setting (Gmax), s5.025.015.05.05.05.0Max Q Clear Time (p_c), s0.02.00.30.02.80.2Intersection Summary13.313.313.314.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LnGrp Delay(d),s/veh 18.0 0.0 0.0 17.5 0.0 0.0 8.3 6.8 6.8 5.3 0.0 16.1 LnGrp LOS B A A B A B B A B B A B D D D D D D D D <td>%ile BackOfQ(50%),veh/In</td> <td>1.1</td> <td>0.0</td> <td>0.0</td> <td>0.8</td> <td>0.0</td> <td>0.0</td> <td>0.1</td> <td>0.6</td> <td>0.7</td> <td>0.1</td> <td>0.0</td> <td>5.0</td>	%ile BackOfQ(50%),veh/In	1. 1	0.0	0.0	0.8	0.0	0.0	0.1	0.6	0.7	0.1	0.0	5.0
LnGrp LOS B A A B A B B 113 455 819 154 Approach LOS B B B B B A B D D D D D D D D D D D <	Unsig. Movement Delay, s/veh												
Approach Vol, veh/h 143 113 455 819 Approach Delay, s/veh 18.0 17.5 7.0 15.4 Approach LOS B B A B Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 6.8 25.4 10.7 6.7 25.5 10.7 Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 5.0 15.0 Max Q Clear Time (g_c+I1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 0.2 Intersection Summary 13.3 13.3 13.3 13.3 13.3 13.3													
Approach Delay, s/veh 18.0 17.5 7.0 15.4 Approach LOS B B B A B Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 6.8 25.4 10.7 6.7 25.5 10.7 Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 5.0 25.0 15.0 5.0 25.0 15.0 Max Q Clear Time (g_c+I1), s 2.6 4.9 5.4 2.5 17.7 4.6 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3 13.3 13.3 13.3		В		А	В		A	A		А	А		В
Approach LOS B B A B Timer - Assigned Phs 1 2 4 5 6 8 Phs Duration (G+Y+Rc), s 6.8 25.4 10.7 6.7 25.5 10.7 Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 5.0 15.0 Max Q Clear Time (g_c+I1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary 13.3 13.3													
Timer - Assigned Phs124568Phs Duration (G+Y+Rc), s6.825.410.76.725.510.7Change Period (Y+Rc), s5.05.05.05.05.0Max Green Setting (Gmax), s5.025.015.05.025.0Max Q Clear Time (g_c+I1), s2.64.95.42.517.7Green Ext Time (p_c), s0.02.00.30.02.80.2Intersection Summary13.313.313.313.313.3													
Phs Duration (G+Y+Rc), s 6.8 25.4 10.7 6.7 25.5 10.7 Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 5.0 25.0 15.0 Max Q Clear Time (g_c+I1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3 13.3 13.3	Approach LOS		В			В			А			В	
Phs Duration (G+Y+Rc), s 6.8 25.4 10.7 6.7 25.5 10.7 Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 5.0 25.0 15.0 Max Q Clear Time (g_c+I1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3 13.3 13.3	Timer - Assigned Phs	1	2		4	5	6		8				
Change Period (Y+Rc), s 5.0 5.0 5.0 5.0 5.0 Max Green Setting (Gmax), s 5.0 25.0 15.0 25.0 15.0 Max Q Clear Time (g_c+l1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3 13.3 13.3 13.3		6.8			10.7	6.7	25.5		10.7				
Max Q Clear Time (g_c+l1), s 2.6 4.9 5.4 2.5 17.7 4.6 Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3		5.0	5.0		5.0	5.0	5.0		5.0				
Green Ext Time (p_c), s 0.0 2.0 0.3 0.0 2.8 0.2 Intersection Summary HCM 6th Ctrl Delay 13.3 13.	Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Intersection Summary HCM 6th Ctrl Delay 13.3	Max Q Clear Time (g_c+l1), s	2.6											
HCM 6th Ctrl Delay 13.3	Green Ext Time (p_c), s	0.0	2.0		0.3	0.0	2.8		0.2				
HCM 6th Ctrl Delay 13.3	Intersection Summary												
				13.3									
	HCM 6th LOS			В									

Notes

User approved pedestrian interval to be less than phase max green.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		٦	ተኩ		ሻ	ب î	
Traffic Volume (veh/h)	4	75	17	22	29	66	65	828	30	38	507	23
Future Volume (veh/h)	4	75	17	22	29	66	65	828	30	38	507	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	1070	No	4070	(No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1945	1870	1870	1945	1870	1870
Adj Flow Rate, veh/h	4	78	18	23	30	69	68	862	31	40	528	24
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2 97	2 195	2 44	2 133	2 69	2 125	2	2	2	2	2	2
Cap, veh/h Arrive On Green	97 0.14	0.14	0.14	0.14	09 0.14	0.14	459 0.05	1608 0.46	58 0.46	427 0.04	786	36
Sat Flow, veh/h	0.14 34	1439	323	202	0.14 506	922	0.05 1853	0.46 3499	0.46 126	0.04 1853	0.44 1775	0.44 81
Grp Volume(v), veh/h	100	0	025	122	0	0	68	438	455	40	0	552
Grp Sat Flow(s), veh/h/ln	1797	ŏ	Ő	1630	Ő	Õ	1853	1777	1848	1853	Ő	1856
Q Serve(g_s), s	0.0	0.0	0.0	0.7	0.0	0.0	0.8	7.2	7.2	0.5	0.0	9.6
Cycle Q Clear(g_c), s	2.1	0.0	0.0	2.8	0.0	0.0	0.8	7.2	7.2	0.5	0.0	9.6
Prop In Lane	0.04	0.0	0.18	0.19	0.0	0.57	1.00	1.6	0.07	1.00	0.0	0.04
Lane Grp Cap(c), veh/h	336	0	0	326	0	0	459	817	849	427	0	822
V/C Ratio(X)	0.30	0.00	0.00	0.37	0.00	0.00	0.15	0.54	0.54	0.09	0.00	0.67
Avail Cap(c_a), veh/h	751	0	0	695	0	0	589	1093	1136	588	0	1141
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.1	0.0	0.0	16.4	0.0	0.0	6.6	7.9	7.9	6.2	0.0	9.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.3	0.0	0.0	0.1	0.5	0.5	0.0	0.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/in	0.7	0.0	0.0	0.8	0.0	0.0	0.2	1.6	1.7	0.1	0.0	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.3	0.0	0.0	16.6	0.0	0.0	6.7	8.4	8.4	6.2	0.0	9.9
LnGrp LOS	В	A	А	В	Α	А	А	А	А	А	А	А
Approach Vol, veh/h		100			122			961			592	
Approach Delay, s/veh		16.3			16.6			8.3			9.7	
Approach LOS		В			В			A			А	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.5	23.7		10.5	7.1	23.0		10.5				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Max Q Clear Time (g_c+l1), s	2.5	9.2		4.1	2.8	11.6		4.8				
Green Ext Time (p_c), s	0.0	4.6		0.2	0.0	2.7		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			9.8									
HCM 6th LOS			А									

Notes

User approved pedestrian interval to be less than phase max green.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			\$		ሻ	ተ ኩ		ኘ	1≯	
Traffic Volume (veh/h)	4	77	18	23	30	68	67	872	31	39	548	24
Future Volume (veh/h)	4	77	18	23	30	68	67	872	31	39	548	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	1070
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1945	1870	1870	1945	1870	1870
Adj Flow Rate, veh/h	4	80	19	24	31	71	70	908	32	41	571	25
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2 69	2	2	2	2 57	2 411	2 786	2 34
Cap, veh/h	96 0.14	195 0.14	45 0.14	133 0.14	0.14	125 0.14	428 0.05	1608 0.46	0.46	0.04	0.44	0.44
Arrive On Green Sat Flow, veh/h	0.14 33	0.14 1432	331	206	0.14 507	0.14 920	0.05 1853	3502	0.46 123	1853	0.44 1778	0.44 78
Grp Volume(v), veh/h	103	1432	0	126	0	920 0	70	461	479	41	0	596
Grp Sat Flow(s), veh/h/ln	1796	0	0	1632	0	0	1853	1777	1848	1853	0	1856
Q Serve(g_s), s	0.0	0.0	0.0	0.7	0.0	0.0	0.8	7.7	7.7	0.5	0.0	10.8
Cycle Q Clear(g_c), s	2.1	0.0	0.0	2.8	0.0	0.0	0.8	7.7	7.7	0.5	0.0	10.8
Prop In Lane	0.04	0.0	0.18	0.19	0.0	0.56	1.00	1.1	0.07	1.00	0.0	0.04
Lane Grp Cap(c), veh/h	336	0	0	328	0	0	428	816	848	411	0	820
V/C Ratio(X)	0.31	0.00	0.00	0.38	0.00	0.00	0.16	0.56	0.56	0.10	0.00	0.73
Avail Cap(c_a), veh/h	749	0	0	693	0	0	556	1090	1134	571	0	1139
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.1	0.0	0.0	16.4	0.0	0.0	6.9	8.0	8.0	6.3	0.0	9.3
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.3	0.0	0.0	0.1	0.6	0.6	0.0	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	0.0	0.8	0.0	0.0	0.2	1.7	1.8	0.1	0.0	2.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.3	0.0	0.0	16.7	0.0	0.0	7.0	8.7	8.6	6.4	0.0	10.8
LnGrp LOS	В	A	А	В	А	А	A	А	A	А	A	В
Approach Vol, veh/h		103			126			1010			637	
Approach Delay, s/veh		16.3			16.7			8.5			10.5	
Approach LOS		В			В			А			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.5	23.7		10.6	7.2	23.0		10.6				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Max Q Clear Time (g_c+I1), s	2.5	9.7		4.1	2.8	12.8		4.8				
Green Ext Time (p_c), s	0.0	4.9		0.2	0.0	2.8		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			10.2									
HCM 6th LOS			В									

Notes

User approved pedestrian interval to be less than phase max green.

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Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4		٦	ተኩ		ኻ	ኈ	
Traffic Volume (veh/h)	14	82	37	23	36	68	88	872	31	39	548	34
Future Volume (veh/h)	14	82	37	23	36	68	88	872	31	39	548	34
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1870	1870	1870	1870	1870	1870	1945	1870	1870	1945	1870	1870
Adj Flow Rate, veh/h	15	85	39	24	38	71	92	908	32	41	571	35
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	2	2	2	2	2	2	2	2	2	2	2	2
Cap, veh/h	112	159	68	130	81	124	427	1618	57	411	759	47
Arrive On Green	0.14	0.14	0.14	0.14	0.14	0.14	0.06	0.46	0.46	0.04	0.44	0.44
Sat Flow, veh/h	111	1147	491	199	581	894	1853	3502	123	1853	1744	107
Grp Volume(v), veh/h	139	0	0	133	0	0	92	461	479	41	0	606
Grp Sat Flow(s),veh/h/ln	1750	0	0	1675	0	0	1853	1777	1848	1853	0	1851
Q Serve(g_s), s	0.1	0.0	0.0	0.0	0.0	0.0	1.1	7.8	7.8	0.5	0.0	11.4
Cycle Q Clear(g_c), s	3.0	0.0	0.0	2.9	0.0	0.0	1.1	7.8	7.8	0.5	0.0	11.4
Prop In Lane	0.11		0.28	0.18		0.53	1.00		0.07	1.00		0.06
Lane Grp Cap(c), veh/h	339	0	0	335	0	0	427	821	854	411	0	806
V/C Ratio(X)	0.41	0.00	0.00	0.40	0.00	0.00	0.22	0.56	0.56	0.10	0.00	0.75
Avail Cap(c_a), veh/h	720	0	0	690	0	0	534	1074	1118	568	0	1119
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	16.6	0.0	0.0	16.6	0.0	0.0	7.2	8.1	8.1	6.5	0.0	9.8
lncr Delay (d2), s/veh	0.3	0.0	0.0	0.3	0.0	0.0	0.1	0.6	0.6	0.0	0.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/In	1.0	0.0	0.0	0.9	0.0	0.0	0.2	1.8	1.8	0.1	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.9	0.0	0.0	16.9	0.0	0.0	7.3	8.7	8.7	6.5	0.0	11.7
LnGrp LOS	В	A	А	В	А	А	А	A	A	А	A	В
Approach Vol, veh/h		139			133			1032			647	
Approach Delay, s/veh		16.9			16.9			8.5			11.3	
Approach LOS		В			В			A			В	
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.5	24.1		10.7	7.6	23.0		10.7				
Change Period (Y+Rc), s	5.0	5.0		5.0	5.0	5.0		5.0				
Max Green Setting (Gmax), s	5.0	25.0		15.0	5.0	25.0		15.0				
Max Q Clear Time (g_c+l1), s	2.5	9.8		5.0	3.1	13.4		4.9				
Green Ext Time (p_c), s	0.0	4.8		0.3	0.0	2.8		0.2				
Intersection Summary												
HCM 6th Ctrl Delay			10.6									
HCM 6th LOS			В									

Notes

User approved pedestrian interval to be less than phase max green.

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Intersection

Intersection Int Delay, s/veh	0.7						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	17			4	۰¥		
Traffic Vol, veh/h	127	11	16	78	2	2	
Future Vol, veh/h	127	11	16	78	2	2	
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	-	
Veh in Median Storage	,#0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	77	77	77	77	77	77	
Heavy Vehicles, %	2	2	2	2	2	2	
Mvmt Flow	165	14	21	101	3	3	
Major/Minor	/lajor1]	Major2	l	Minor1		
Conflicting Flow All	0	0	179	0	315	172	
Stage 1	-	-	-	-	172	-	
Stage 2	-	-	-	-	143	-	
Critical Hdwy	-	-	4.12	-	6.42	6.22	
Critical Hdwy Stg 1	-	-	-	-	5.42	-	
Critical Hdwy Stg 2	-	-	-	-	5.42	-	
Follow-up Hdwy	-	-	2.218	-	3.518	3.318	
Pot Cap-1 Maneuver	-	-	1397	-	678	872	
Stage 1	-	-	-	-	858	-	
Stage 2	-	-	-	-	884	-	
Platoon blocked, %	-	-		-			
Mov Cap-1 Maneuver	-	-	1397	-	667	872	
Mov Cap-2 Maneuver	-	-	-	-	667	-	
Stage 1	-	-	-	-	858	-	
Stage 2	-	-	-	-	870	-	
Approach	EB		WB		NB		
HCM Control Delay, s	0		1.3		9.8		
HCM LOS					Α		
Minor Long Major Mumi	i s	BLn1	EBT	EBR	WBL	WBT	
Minor Lane/Major Mvmt Capacity (veh/h)	L ł	756		-	1397	AAD I	
HCM Lane V/C Ratio		0.007	-	-	0.015	•	
HCM Control Delay (s)		9.8	-	-	7.6	- 0	
HCM Lane LOS		9.0 A	-	-	7.0 A	A	
HCM 25th %tile Q(veh)		0	-	-	0	-	
HOW SOUL WIRE OVACH		U	-	-	U	-	

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Intersection Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₽			₹Î	¥	
Traffic Vol, veh/h	119	1	2	156	9	14
Future Vol, veh/h	119	1	2	156	9	14
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	-
Veh in Median Storage	# 0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	77	77	77	77	77	77
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	155	1	3	203	12	18
Major/Minor N	fajor1	i	Major2	ł	Minor1	
Conflicting Flow All	0	0	156	0	365	156
Stage 1	-	-	-	-	156	-
Stage 2	-	-	-	-	209	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1424	-	635	890
Stage 1	-	-	-	-	872	-
Stage 2	-	-	-	-	826	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1424	-	634	890
Mov Cap-2 Maneuver	-	-	-	-	634	-
Stage 1	-	-	-	-	872	-
Stage 2	-	-	-	-	824	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.1		9.9	
HCMLOS					Α	
Minor Lane/Major Mvmt	۲ ۲	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		769	•	-	1424	•
HCM Lane V/C Ratio		0.039	-	-	0.002	-
HCM Control Delay (s)		9.9	-	-	7.5	0
HCM Lane LOS		A	-	-	Ā	Å
HCM 95th %tile Q(veh)		0.1	-	-	0	-
		÷. I			0	

2026	Build
AM Pea	ak Hour

Movement EBT EBR WBL WBT NBL NBR Lane Configurations 1 7 73 5 21 Traffic Vol, veh/h 117 1 7 73 5 21 Future Vol, veh/h 117 1 7 73 5 21 Conflicting Peds, #/hr 0 </th <th>Intersection Int Delay, s/veh</th> <th>1.3</th> <th></th> <th></th> <th></th> <th></th> <th></th>	Intersection Int Delay, s/veh	1.3					
Traffic Vol, veh/h 117 1 7 73 5 21 Future Vol, veh/h 117 1 7 73 5 21 Conflicting Peds, #/hr 0 0 0 0 0 0 0 Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - None - None - None Storage Length - - 0 0 - 0 0 - Grade, % 0 - - 0 0 - Pack Hour Factor 77<	Movement	EBT	EBR	WBL	WBT	NBL	NBR
Future Vol, veh/h 117 1 7 73 5 21 Conflicting Peds, #/hr 0	Lane Configurations	₽			Æ	- ¥4	
Conflicting Peds, #/hr 0	Traffic Vol, veh/h	117	1	7	73	5	21
Sign Control Free Free Free Free Free Stop Stop RT Channelized - None - None - None - None Storage Length - - 0 0 - - 0 0 - Grade, % 0 - - 0 0 - - 0 0 - Grade, % 0 - - 0 0 - - 0 0 - Peak Hour Factor 77 <td< td=""><td>•</td><td>117</td><td>1</td><td>7</td><td>73</td><td>5</td><td>21</td></td<>	•	117	1	7	73	5	21
RT Channelized - None - None - None Storage Length - - 0 0 - - 0 0 - Veh in Median Storage, # 0 - - 0 0 - - 0 0 - Grade, % 0 - - 0 0 - - 0 0 - Peak Hour Factor 77		•	•	-	0	0	0
Storage Length - - - 0 - Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 77 77 77 77 77 77 Heavy Vehicles, % 2 3 3 3 3 3 3 3		Free		Free		Stop	
Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 77 77 77 77 77 77 Heavy Vehicles, % 2 3 3 3 3 3 <td></td> <td>-</td> <td>None</td> <td>-</td> <td>None</td> <td></td> <td>None</td>		-	None	-	None		None
Grade, % 0 - - 0 0 - Peak Hour Factor 77		- -	-	-		-	-
Peak Hour Factor 77<			-	-	-	•	-
Heavy Vehicles, % 2 1 9 95 6 27 Major/Minor Major1 0 0 153 0 266 153 53 53 53 53 5 53 5 <		•		- 77	-	•	-
Mvmt Flow 152 1 9 95 6 27 Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 153 0 266 153 Stage 1 - - - 153 - Stage 2 - - 113 - Critical Hdwy - - 4.12 - 6.42 6.22 - Critical Hdwy Stg 1 - - - 5.42 - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - - 5.42 - - 5.42 - - 5.42 - - 6.42 6.22 - - 5.42 - - - 5.42 - - - 6.42 6.22 - - 5.42 - - - 5.42 - - 5.42 - - 5.42 - - <							
Major/Minor Major1 Major2 Minor1 Conflicting Flow All 0 0 153 0 266 153 Stage 1 - - - 153 - 153 - Stage 2 - - - 113 - - 113 - Critical Hdwy - - 4.12 - 6.42 6.22 - Critical Hdwy Stg 1 - - - 5.42 - - 5.42 - Critical Hdwy Stg 2 - - 5.42 - - 5.42 - Follow-up Hdwy - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - 1428 - 723 893 Stage 1 - - - 875 - Stage 2 - - - 718 893 Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 -	•						
Conflicting Flow All 0 0 153 0 266 153 Stage 1 - - - 153 - 153 - Stage 2 - - - 113 - - 113 - Critical Hdwy - - 4.12 - 6.42 6.22 - Critical Hdwy Stg 1 - - - 5.42 - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - - 5.42 - Critical Hdwy Stg 2 - - - 1428 723 893 - - 912 - - 912 - - 912 - - - 912 - - - 1428 718 893 - - 718 - - 5 - - 5 - - 906 - - -		152	I	IJ	90	0	21
Conflicting Flow All 0 0 153 0 266 153 Stage 1 - - - 153 - - 153 - Stage 2 - - - 113 - - 113 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - 1428 - 723 893 Stage 1 - - - 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - -	Major/Minor	Aajor1	i	Major2]	Minor1	
Stage 2 - - - 113 - Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy - - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - 1428 - 723 893 Stage 1 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 875 - Stage 2 - - - 906 - Approach EB WB NB NB - A Minor Lane/Major Mvmt NBLn1 EBT							153
Critical Hdwy - - 4.12 - 6.42 6.22 Critical Hdwy Stg 1 - - - 5.42 - Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy - - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - - 1428 - 723 893 Stage 1 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 - Stage 1 - - - 893 - - Mov Cap-2 Maneuver - - 875 - - - 893 Mov Cap-2 Maneuver - - - 906 - - - - - - - - - - -<	Stage 1	-	-	-	-	153	-
Critical Hdwy Stg 1 - - 5.42 - Critical Hdwy Stg 2 - - 5.42 - Follow-up Hdwy - - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - - 1428 - 723 893 Stage 1 - - - 875 - Stage 2 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 - Stage 1 - - - 875 - Stage 2 - - - 906 - Approach EB WB NB NB HCM LOS A - - 1428 - HCM LOS A - - 1428 - HCM Lane V/C Ratio	Stage 2	-	-	-	-	113	-
Critical Hdwy Stg 2 - - - 5.42 - Follow-up Hdwy - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - - 1428 - 723 893 Stage 1 - - - 875 - 893 Stage 1 - - - 875 - Stage 2 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 - Stage 2 - - - 906 - Approach EB WB NB NB HCM LOS A - - 906 - Minor Lane/Major Mvmt NBLn1 EBT EBR WBT - Capacity (veh/h) 853 - - 1428	Critical Hdwy	-	-	4.12	-	6.42	6.22
Follow-up Hdwy - - 2.218 - 3.518 3.318 Pot Cap-1 Maneuver - 1428 - 723 893 Stage 1 - - - 875 - Stage 2 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 893 Mov Cap-2 Maneuver - - 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 - Stage 2 - - - 906 - Approach EB WB NB NB HCM LOS A - - 1428 - Minor Lane/Major Mvmt NBLn1 EBT EBR WBT - Capacity (veh/h)		-	-	-	-	5.42	-
Pot Cap-1 Maneuver - - 1428 - 723 893 Stage 1 - - - 875 - Stage 2 - - - 912 - Platoon blocked, % - - - 912 - Mov Cap-1 Maneuver - 1428 718 893 Mov Cap-2 Maneuver - - 718 - Stage 1 - - - 718 - Stage 1 - - - 875 - Stage 2 - - - 906 - Approach EB WB NB - HCM Control Delay, s 0 0.7 9.4 HCM LOS A - - 1428 - Minor Lane/Major Mvmt NBLn1 EBT EBR WBT - Capacity (veh/h) 853 - - 1428 - HCM Lane V/C Ratio 0.04 - 0.006 - HCM Lane LOS A <t< td=""><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td>5.42</td><td>-</td></t<>		-	-	-	-	5.42	-
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Mov Cap-2 Maneuver - - - 718 - Stage 1 - - - 875 - Stage 2 - - - 906 - Approach EB WB NB - HCM Control Delay, s 0 0.7 9.4 HCM LOS A - - 1428 Minor Lane/Major Mvmt NBLn1 EBT EBR WBL WBT Capacity (veh/h) 853 - - 1428 - HCM Lane V/C Ratio 0.04 - 0.006 - HCM Control Delay (s) 9.4 - 7.5 0 HCM Lane LOS A - - A A		-	-		-		
Stage 1875-Stage 2906-ApproachEBWBNBHCM Control Delay, s00.79.4HCM LOSA-AMinor Lane/Major MvmtNBLn1EBTEBRWBLCapacity (veh/h)8531428HCM Lane V/C Ratio0.040.006HCM Control Delay (s)9.47.5HCM Lane LOSAA	-	-	-	1428	•		893
Stage 2906-Approach HCM Control Delay, sEB 0WB 0.7NB 9.4HCM LOS0.79.4 AMinor Lane/Major Mvmt Capacity (veh/h)NBLn1 853EBT -EBR 4WBT 		-	-	-	-		-
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HCM Control Delay (s) 9.4 - - 7.5 0 HCM Lane LOS A - - A A				-	-		-
	HCM Control Delay (s)		9.4	-	-		0
HCM 95th %tile Q(veh) 0.1 0 -			Α	-	-	А	А
	HCM 95th %tile Q(veh)		0.1	-	-	0	-

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Intersection

Int Delay, s/veh	1					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1	-		्र्स	¥	40
Traffic Vol, veh/h	108	5	21	144	3	12
Future Vol, veh/h	108	5	21	144	3	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	- 4	-	-	-	0	-
Veh in Median Storage		-	-	0	0	-
Grade, % Peak Hour Factor	0	- 77	- 77	0	0	- 77
	77 2	2	77 2	77 2	77 2	77 2
Heavy Vehicles, %		2 6			4	
Mvmt Flow	140	0	27	187	4	16
Major/Minor I	Major1	ſ	Major2	J	Minor1	
Conflicting Flow All	0	0	146	0	384	143
Stage 1	-	-	-	-	143	-
Stage 2	-	-	-	-	241	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1436	-	619	905
Stage 1	-	-	-	-	884	-
Stage 2	-	-	-	-	799	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1436	-	606	905
Mov Cap-2 Maneuver	-	-	-	-	606	-
Stage 1	-	-	-	-	884	-
Stage 2	-	-	-	-	782	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		1		9.5	
HCM LOS					А	
Minor Lane/Major Mvm	t ۱	VBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	•	824			1436	-
HCM Lane V/C Ratio		0.024	-	-		-
HCM Control Delay (s)		9.5	-	-	7.6	0
HCM Lane LOS		A.	-	-	7.0 A	Ă
HCM 95th %tile Q(veh)		0.1	_	_	0.1	-
nom ovar maio aqronj		0.1			0.1	

HCM 6th TWSC 4: Residential Drwy West & Log City Rd

Intersection

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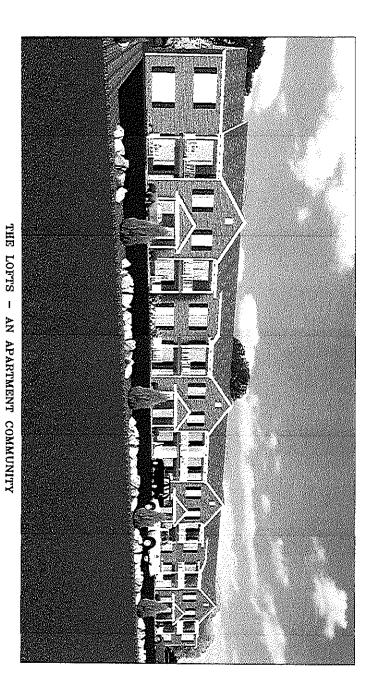
Intersection Int Delay, s/veh	1.2					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	1→			र्स	۰¥	
Traffic Vol, veh/h	108	5	3	75	15	10
Future Vol, veh/h	108	5	3	75	15	10
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,#0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	77	77	77	77	77	77
Heavy Vehicles, %	2	2	2	2	2	2
Mvmt Flow	140	6	4	97	19	13
Major/Minor	Major1	ļ	Major2		Minor1	
Conflicting Flow All	0	0	146	0	248	143
Stage 1	-	-	-	-	143	-
Stage 2	-	-	-	-	105	-
Critical Hdwy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1436	-	740	905
Stage 1	-	-	-	-	884	-
Stage 2	-	-	-	-	919	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1436	-	738	905
Mov Cap-2 Maneuver	-	-	-	-	738	-
Stage 1	-	-	-	-	884	-
Stage 2	-	-	-	-	916	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.3		9.7	
HCM LOS					A	
Minor Lane/Major Mvm	it N	IBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)		797	-	-	1436	•
HCM Lane V/C Ratio		0.041	-	-	0.003	
HCM Control Delay (s)		9.7	-	-	7.5	0
HCM Lane LOS		A	-	-	Â	Ă
HCM 95th %tile Q(veh)	l l	0.1	-	-	0	-
	r	0.1			v	

Intersection

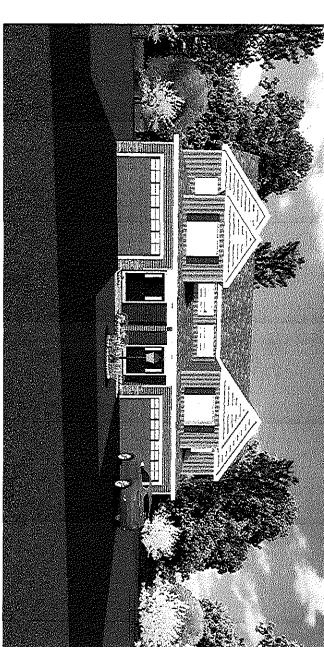
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Int Delay, s/veh	0.8					
Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations	₿.			र्स	- ¥4	
Traffic Vol, veh/h	107	15	10	137	9	6
Future Vol, veh/h	107	15	10	137	9	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	0	-
Veh in Median Storage	e,#0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	77	77	77	77	77	77
Heavy Vehicles, %	2	2	2	2	2	2
Mymt Flow	139	19	13	178	12	8
Major/Minor	Major1	P	Vajor2		Minor1	
Conflicting Flow All	0	0	158	0	353	149
Stage 1		-	-	-	149	-
Stage 2	-	-	-	_	204	-
Critical Howy	-	-	4.12	-	6.42	6.22
Critical Hdwy Stg 1	-	-	-	-	5.42	-
Critical Hdwy Stg 2	-	-	-	-	5.42	-
Follow-up Hdwy	-	-	2.218	-	3.518	3.318
Pot Cap-1 Maneuver	-	-	1422	-	645	898
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	830	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1422	-	639	898
Mov Cap-2 Maneuver	-	-	-	-	639	-
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	822	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0.5		10.1	
HCM LOS	-				В	
					_	
Minor Lane/Major Mvm	4 X	IBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	t P	722	-		1422	
HCM Lane V/C Ratio		0.027	-	-	0.009	-
HCM Control Delay (s)		10.1	-	-	7.6	-
HCM Lane LOS		B	-	-	7.0 A	A
HCM 95th %tile Q(veh)		0.1			Ő	-
nom oon muo Q(Von)		V. I	-	-	v	-

DEVELOPER: CONCORD DEVELOPMENT CO. LLC PO BOX 9614 NISKAYUNA, NY 12309



THE GABLES - A CONDOMINIUM COMMUNITY

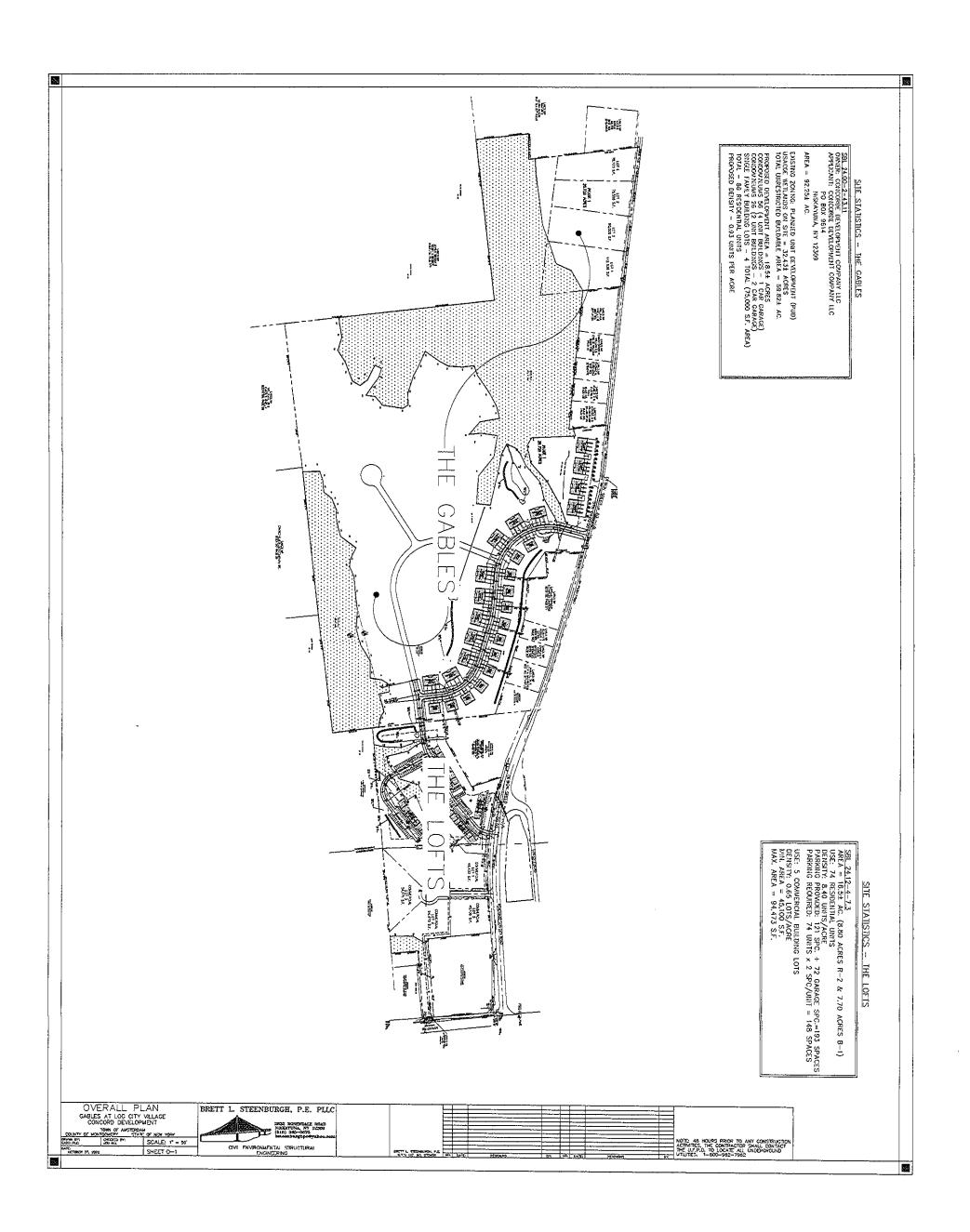


LOG CITY ROAD * TOWN OF AMSTERDAM * STATE OF



NEW YORK

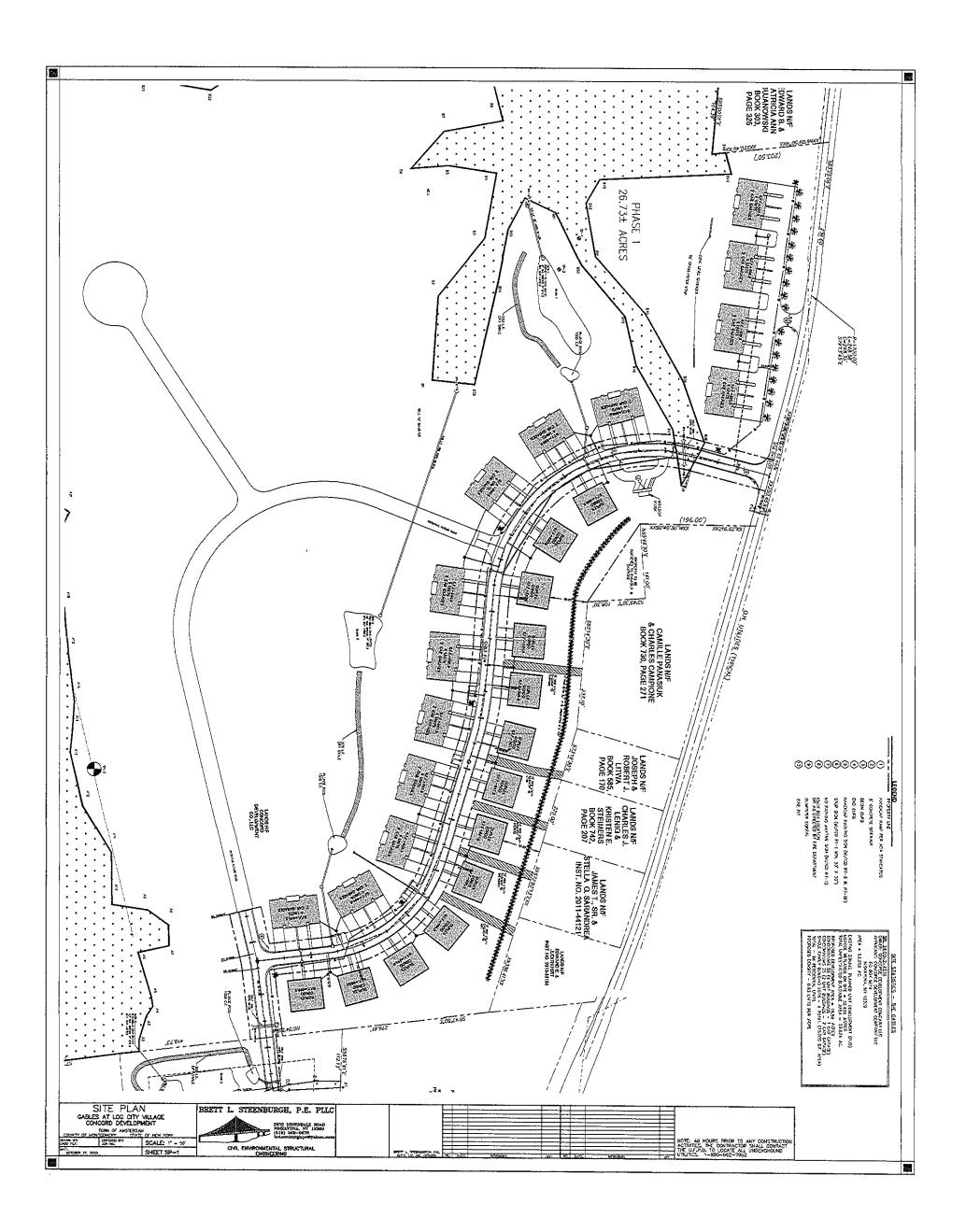




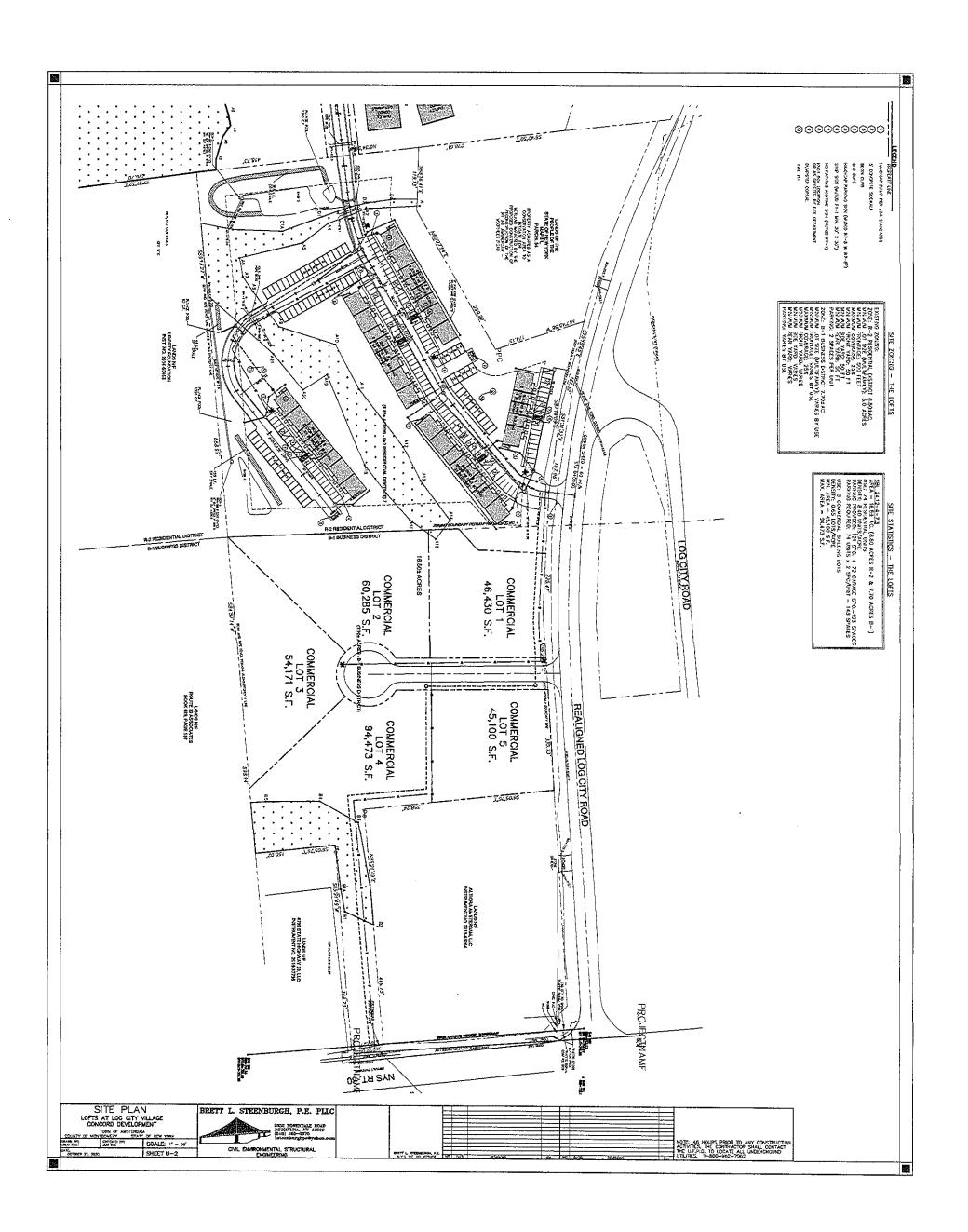
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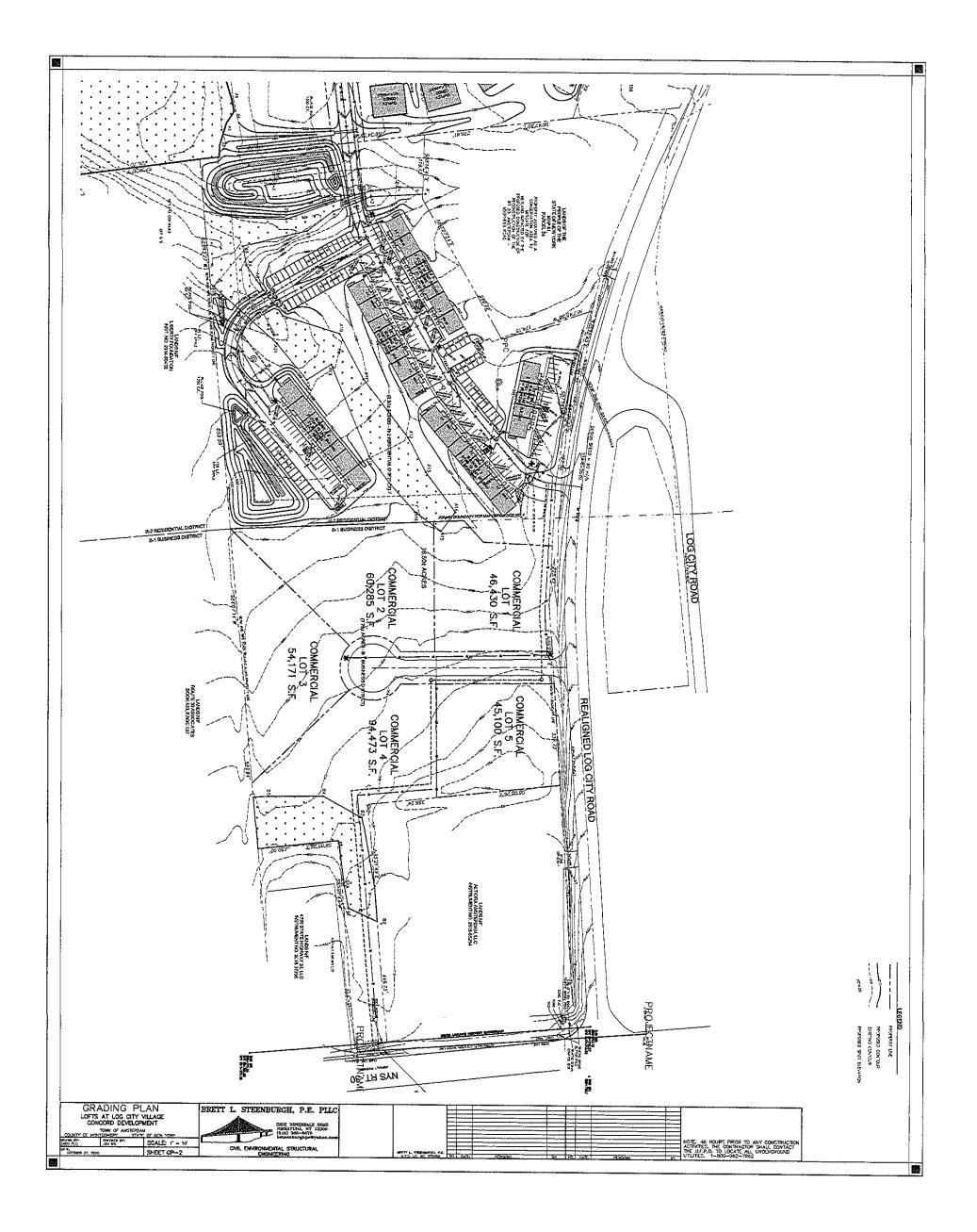
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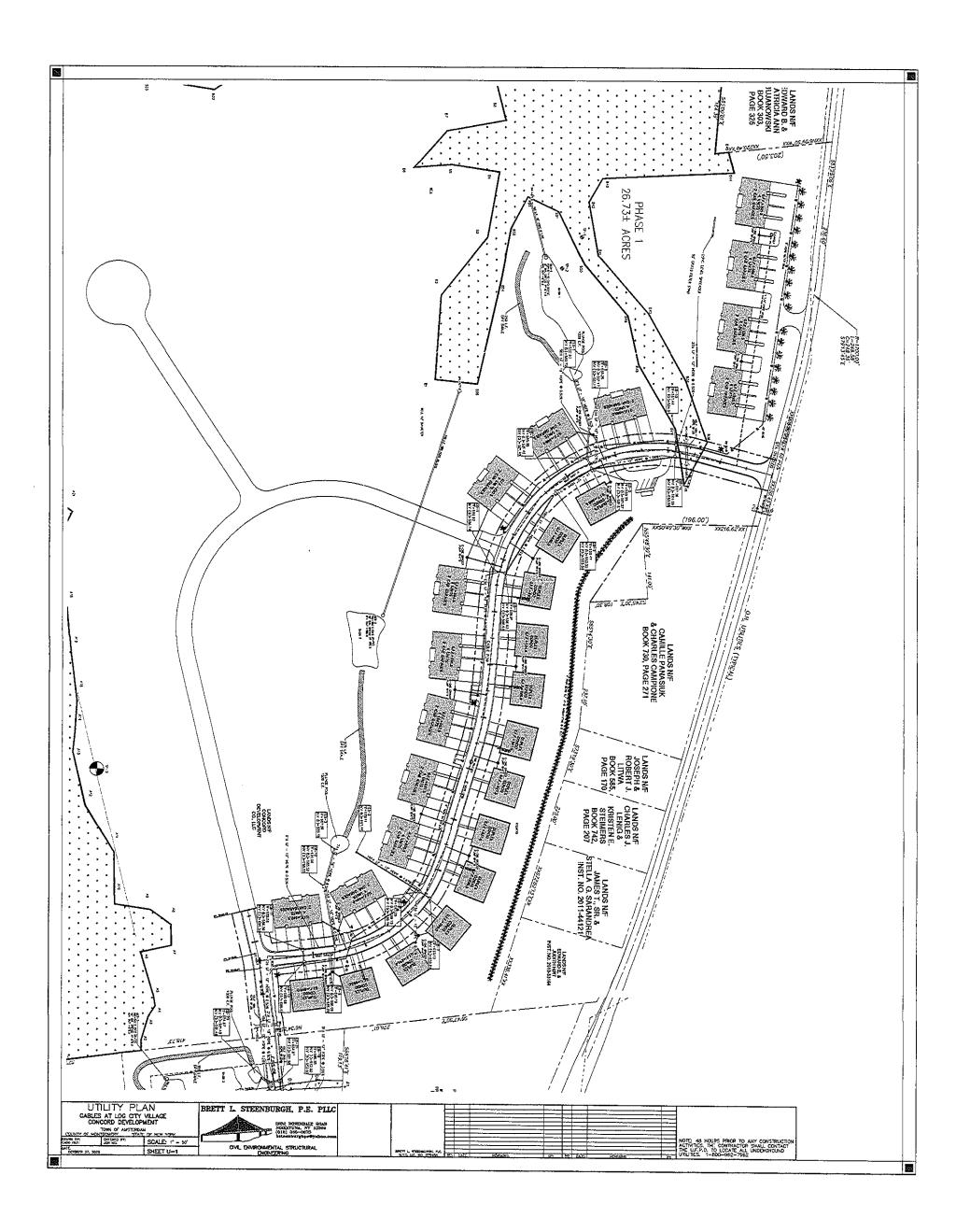


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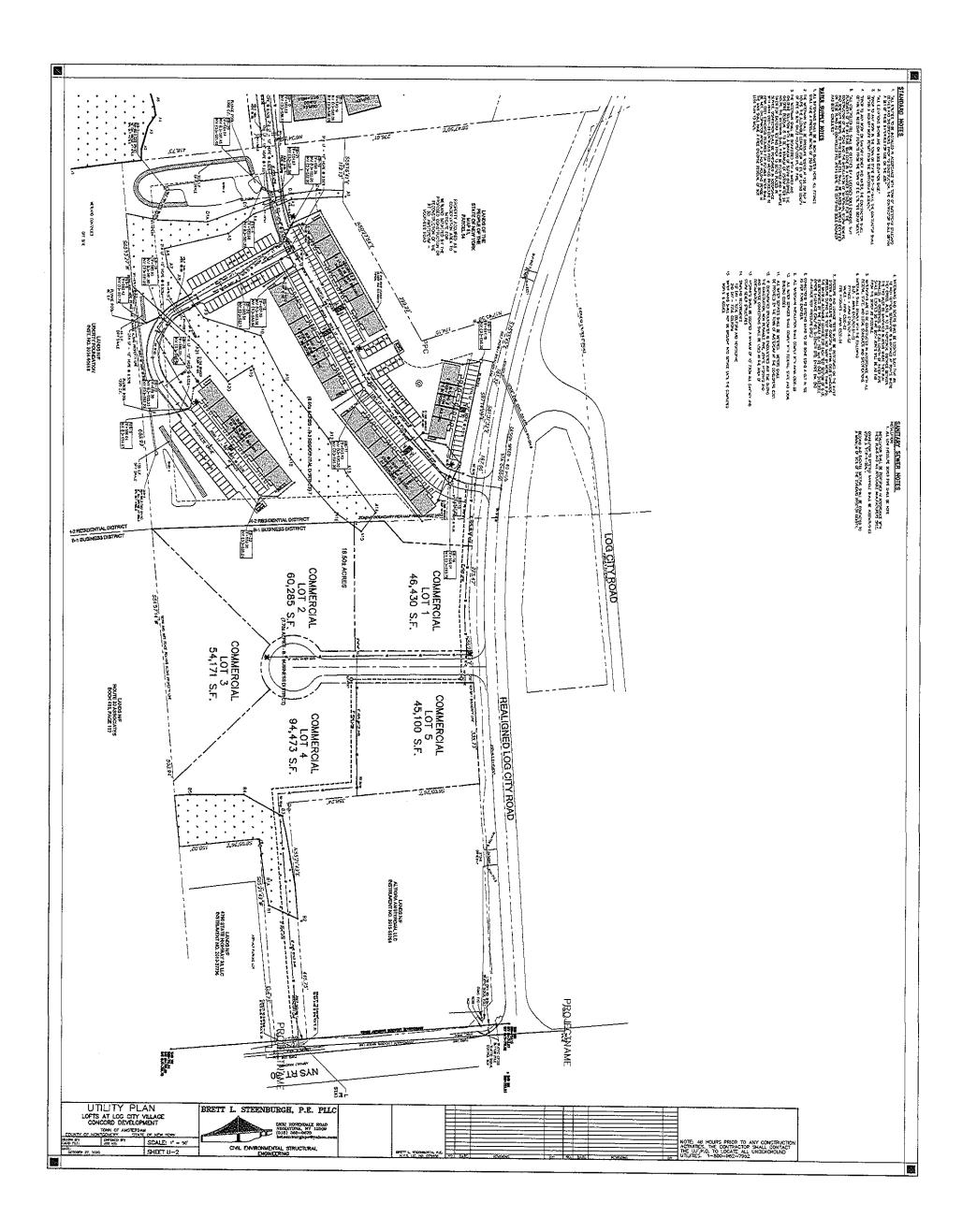


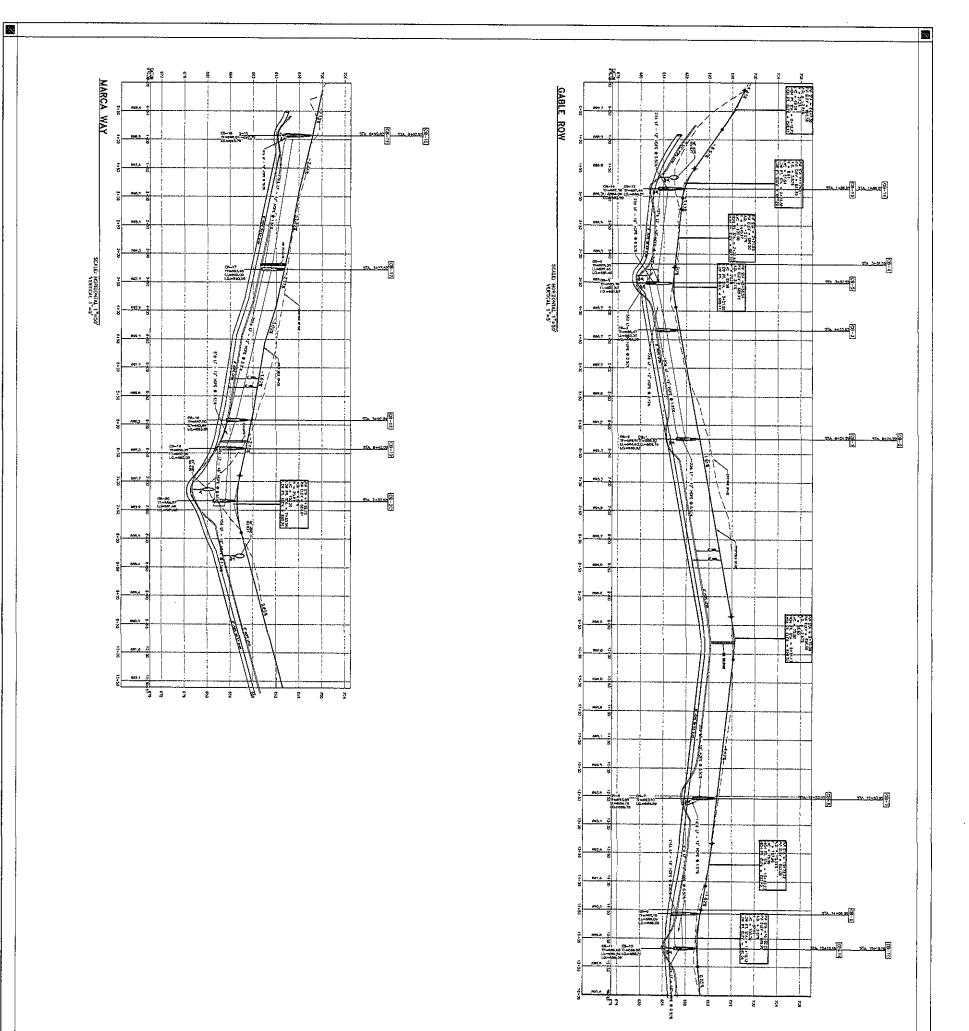






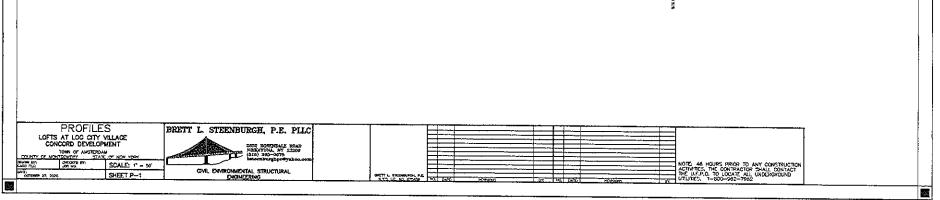


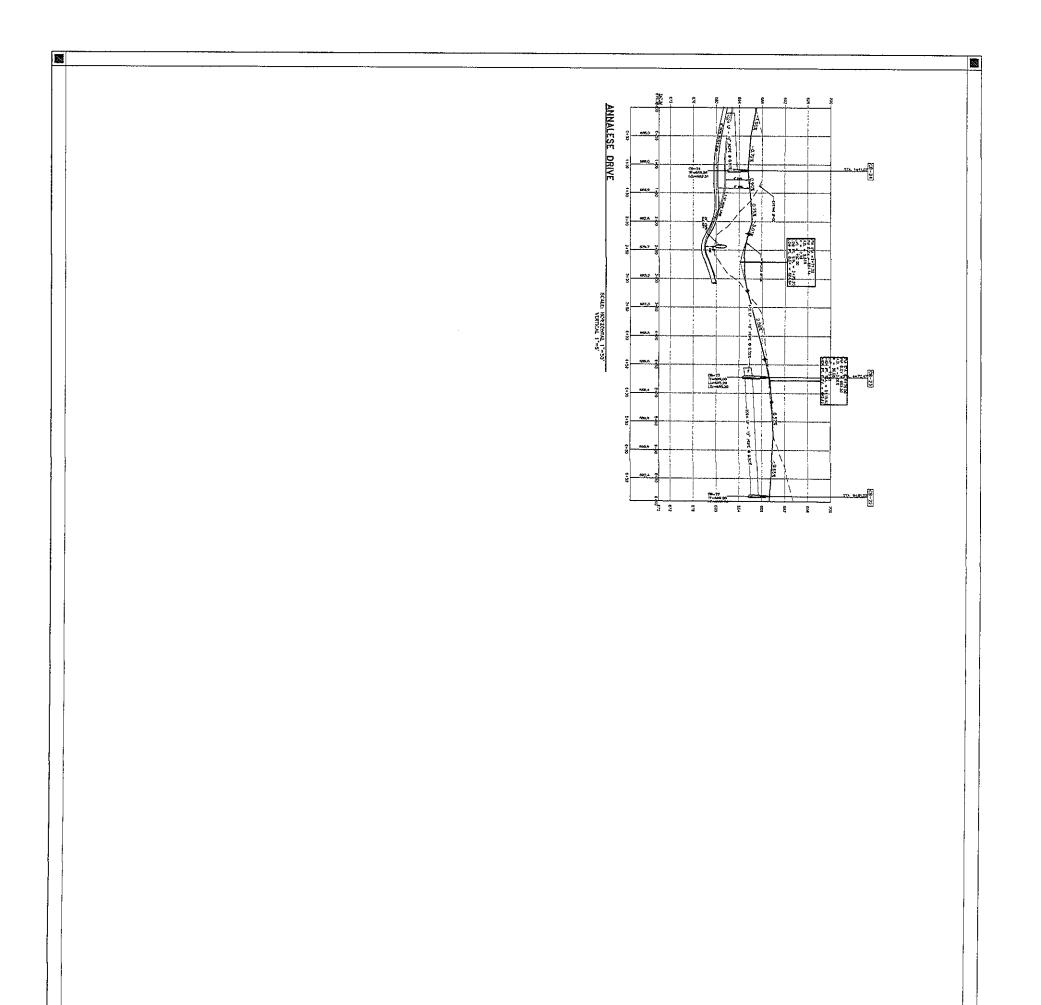




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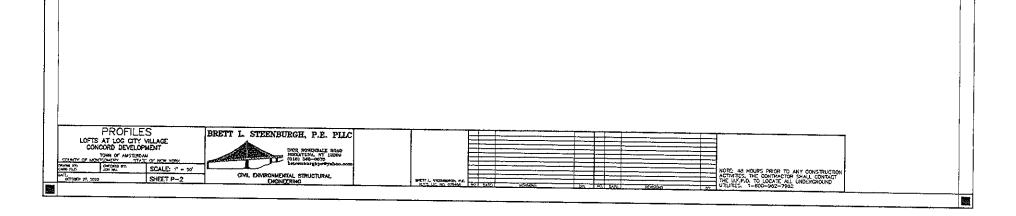


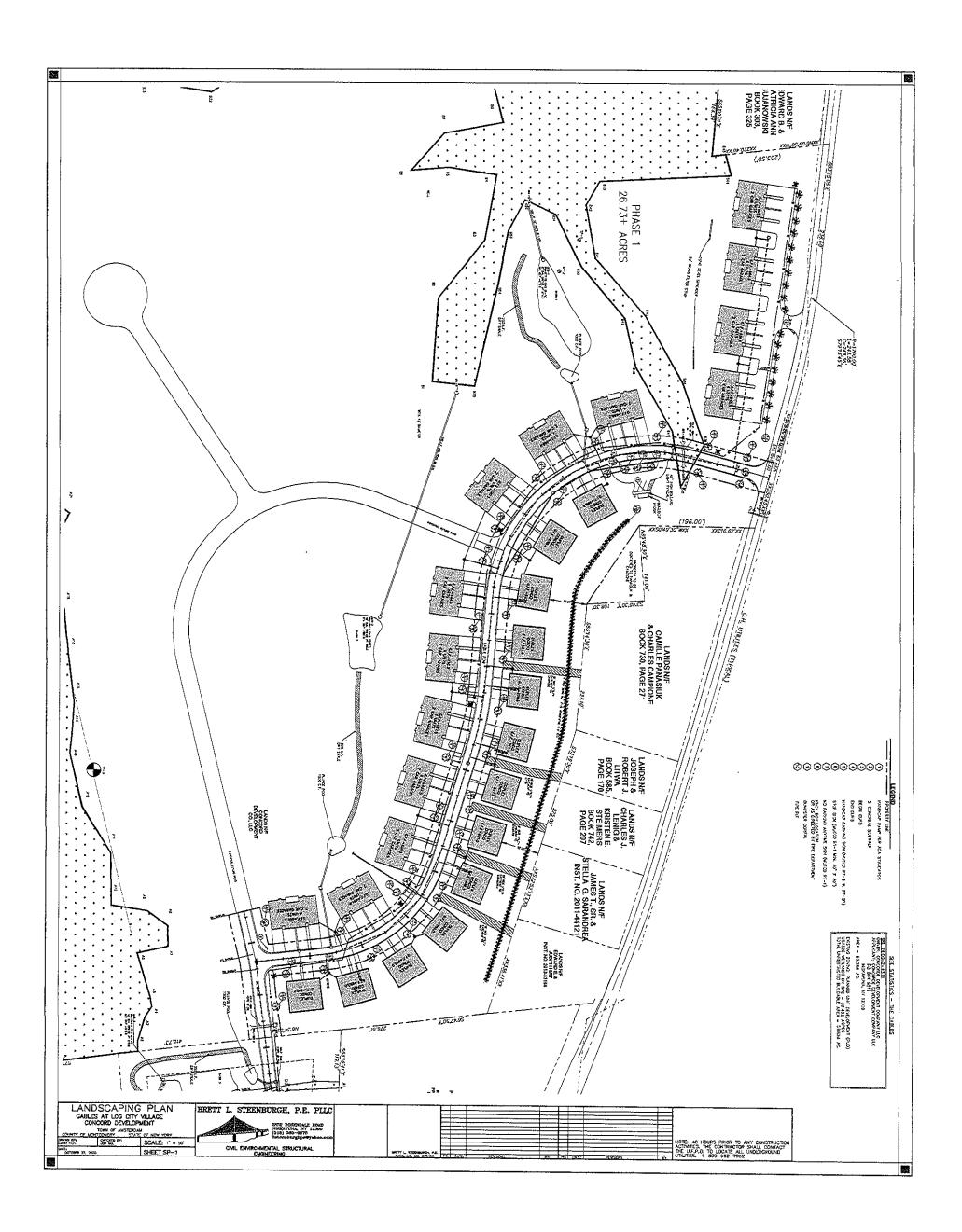
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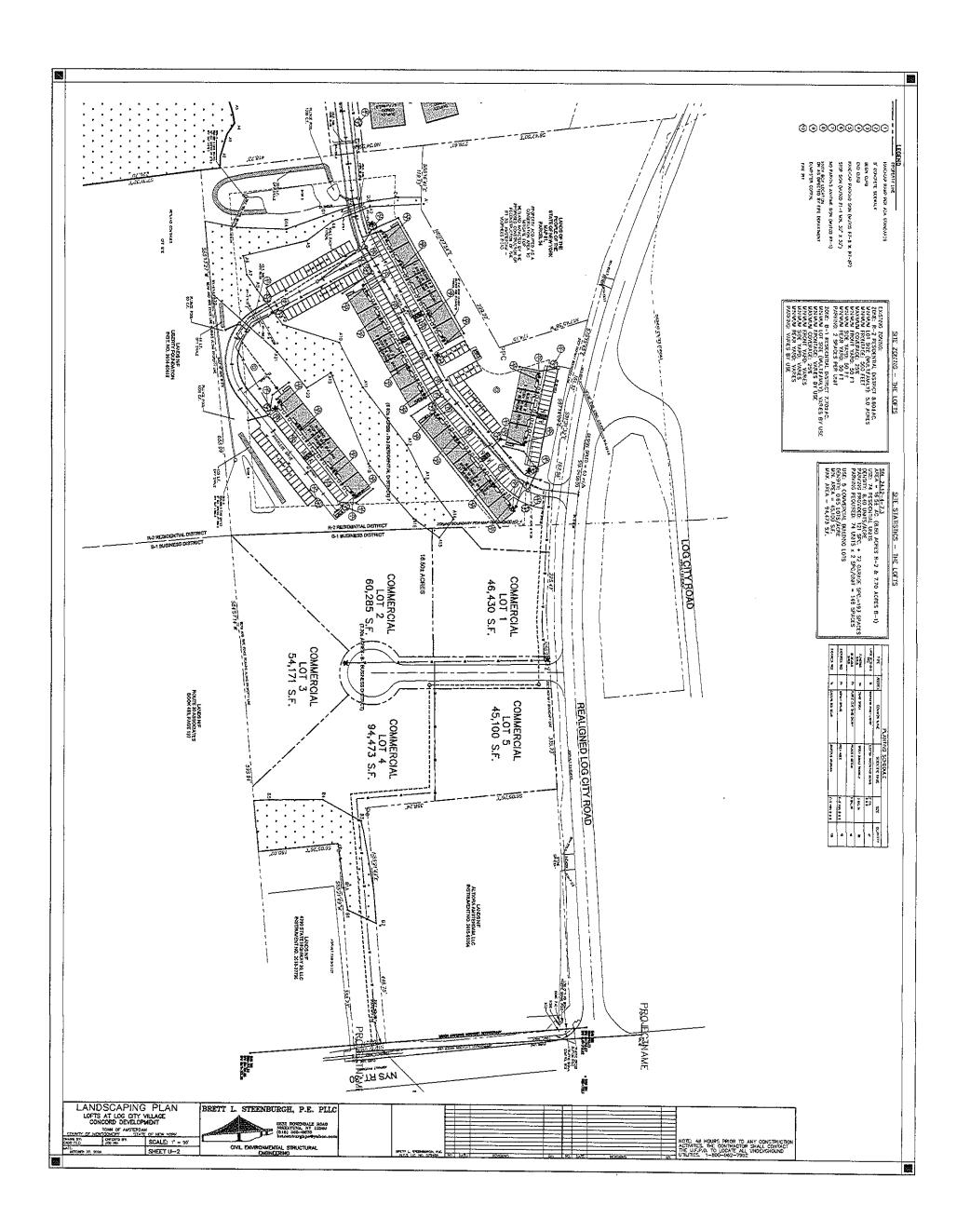
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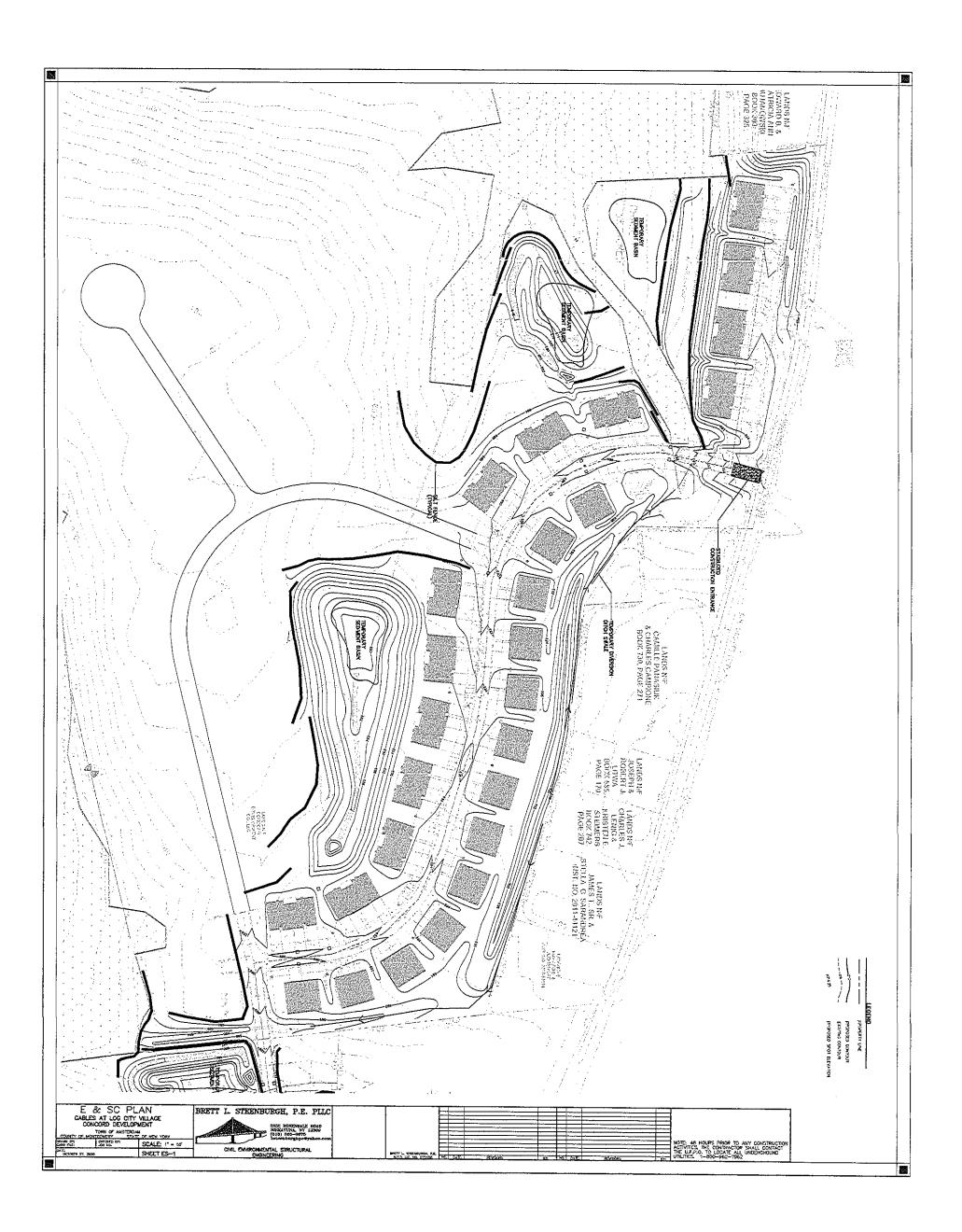
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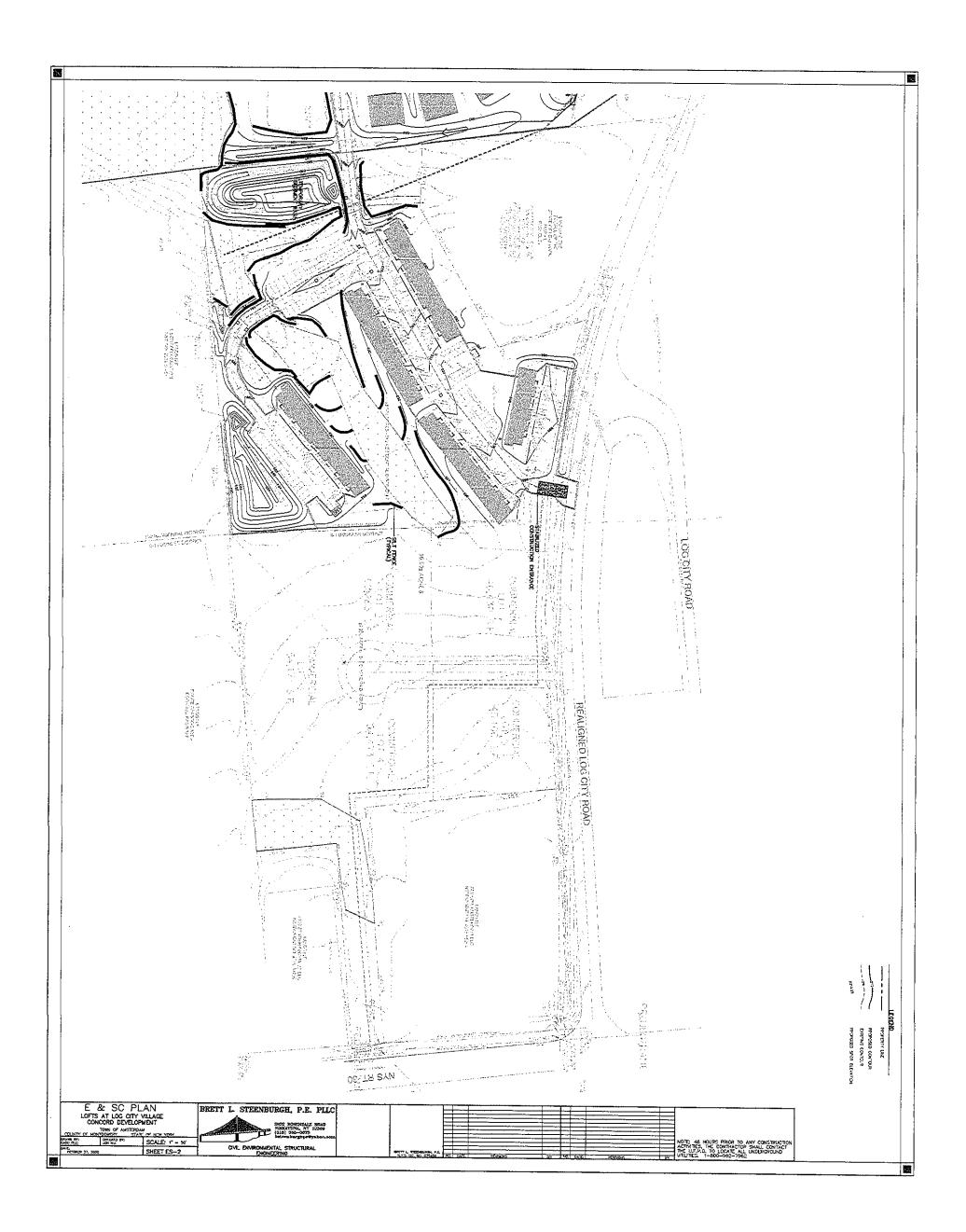


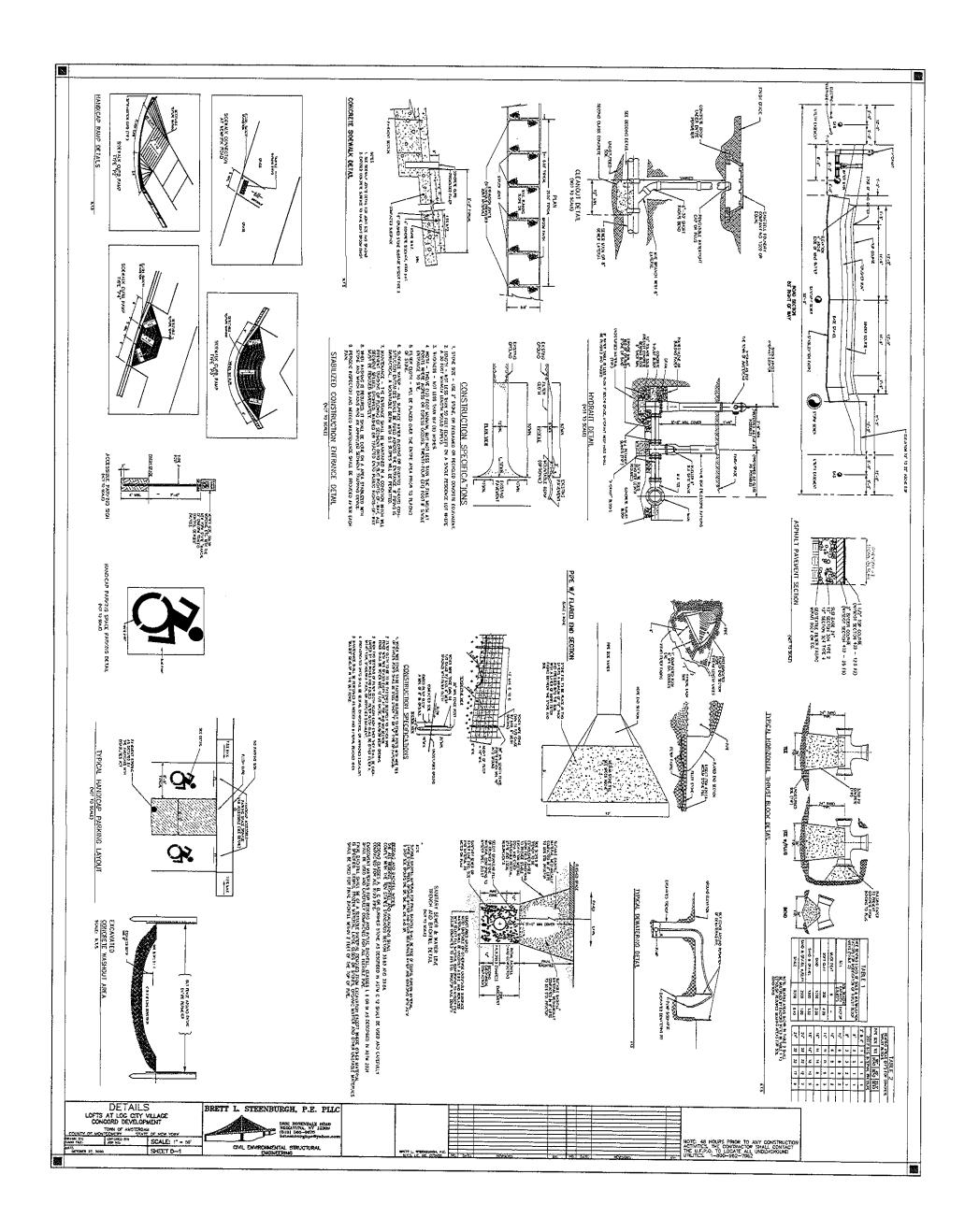


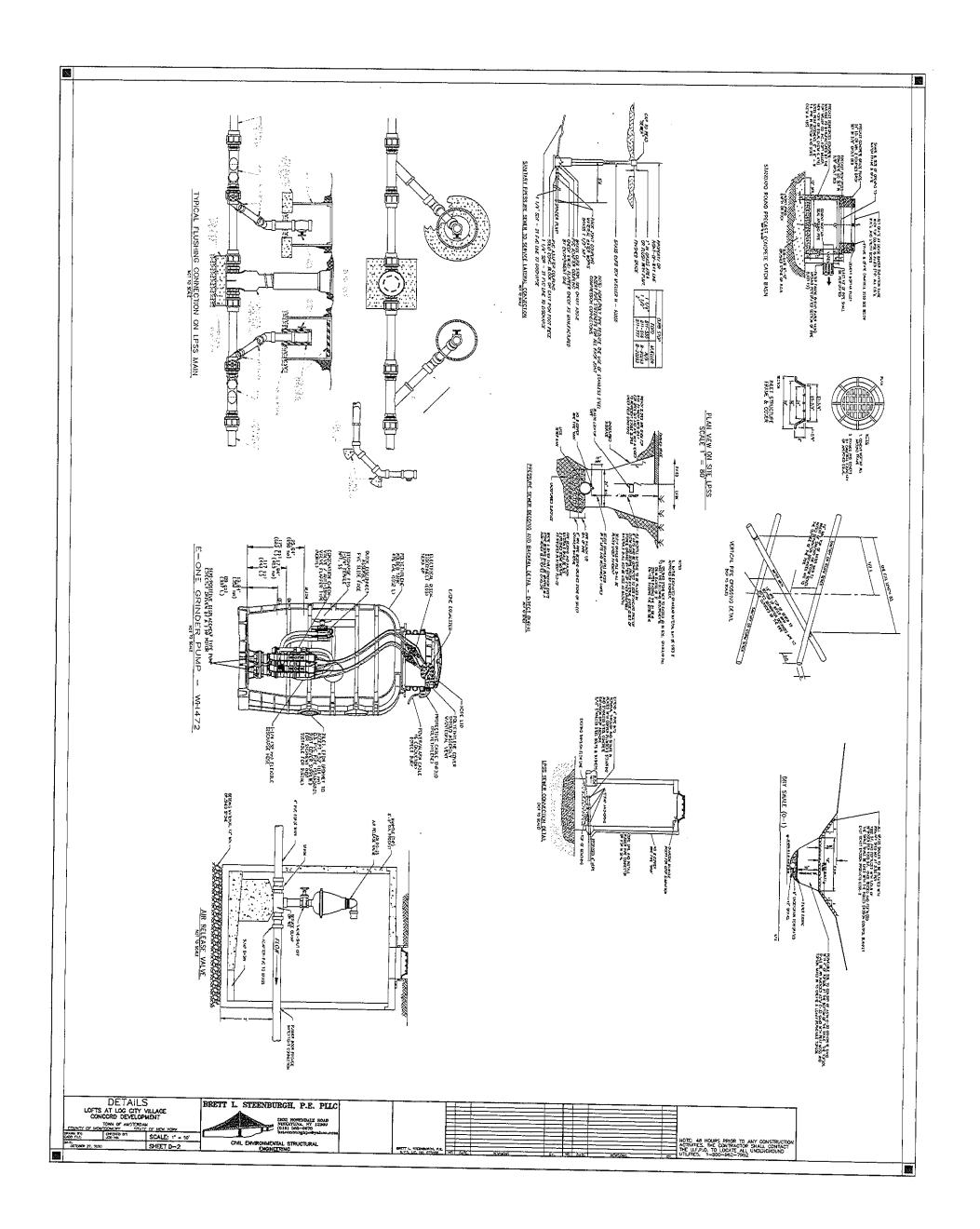


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	CRRAL FORM UNTY PLANNING BOARD	Referral Number assigned by the MCPB upon acceptance of referral for review
This Referral must be received SEVEN CALENDAR DAYS prio	r to the MCPB meeting date in order for i	t to be placed on the agenda.
 Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334 Fax: 518-853-8336 	FROM: Municipal Board: Pla Referring Officer: Sec	cretary ntoTown of Amsterdam orner Road
1. ApplicantDaniel & Dana Cullen 2. Site	Address: <u>139 Manny's Co</u>	orner RdAAmsterdam
3. Tax Map Number(s): <u>40.2-2</u> , 40.2-4, 40	4. Ac	res: <u>86,6</u>
5. Is the site currently serviced by public water?	Yes XX No	
6. On-site waste water treatment is currently provided	l by: 🔲 Public Sewer or 🗌 Sep	tic System
7. Current Zoning: <u>R-1</u> 8. (Current Land Use: <u>vacant</u>	
9. Project Description: <u>Community-Solar-wan</u>		
community solar facility		
 a municipal boundary. a State or County thruway/highway/roadway an existing or proposed State or County park/reco an existing or proposed County-owned stream on a State or County-owned parcel on which a publi a farm operation within an Agricultural District (11. PUBLIC HEARING: Date Nov 4, 2020 Time: Referred If referring multiple, related actions, please identify a 	r drainage channel c building or institution is situated Incl. Ag data Statement) (does not app <u>6:55 pm.</u> Location: <u>Town</u> <u>Action(s)</u> Town the referring municipal board if different fi Referring Board:	oly to area variances) <u>of Amste</u> rdam Hall 283 Manny;s Amsterdam Ny
13. Zone Change	Referring Board:	
Proposed Zone District:	-	es:
Purpose of the Zone Change:		
14. X Site Plan Project Site Review	Referring Board: Plan	
Proposed Improvements:	6 F1a	uning board
Proposed Use: <u>5 mega watt community sola</u> Will the proposed project require a variance? Specify:	s X No Type:	Area 🗌 Use
Is a State of County DOT work permit needed? If Yes Specify:	: State or County	XX No

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This side to be completed by Montgomery County Planning.

REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD

TO: _____

Receipt of 239-m referral is acknowledged on ______. Please be advised that the Montgomery County Planning Board has reviewed the proposal stated on the opposite side of this form on ______ and makes the following recommendation.

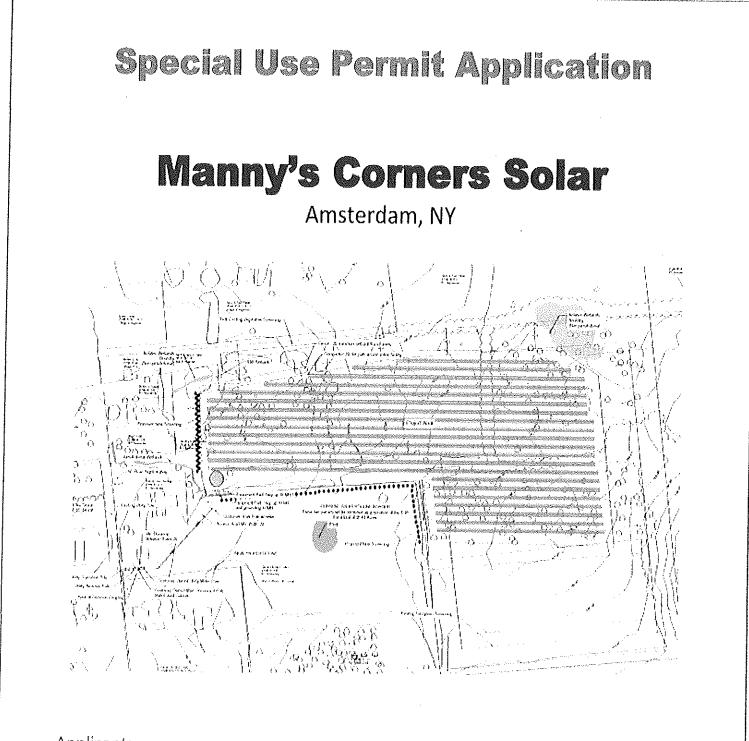
Approves
Approves (with Modification)
Disapproves:
No significant County-wide or inter-community input
Not subject to Planning Board review
Took no action

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning

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Applicant: Community Power Group, LLC 5636 Connecticut Ave #42729 Washington, DC 20015

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CPG represents that all other documents not included in this package, e.g. the Drainage / Soil Plan, Grading Plan and other will be prepared and submitted in connection with building permit application.

Section A - Project Overview

A.1 – General Overview

The Community Power Group, LLC ("CPG") is developing a 5MW community solar farm located on 139 Manny Corners Road in the Town of Amsterdam ("Town").



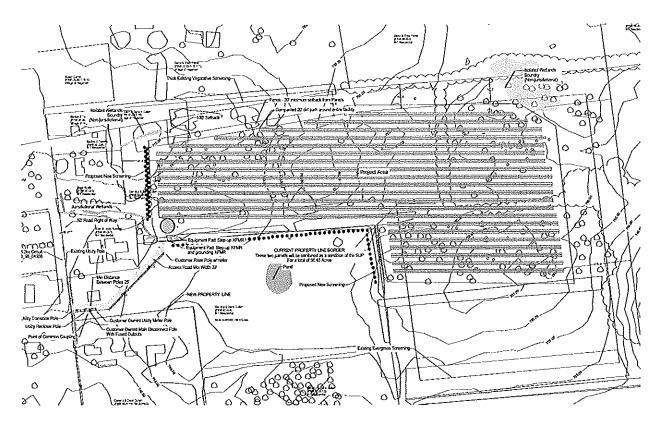
General Information:

- Parcel Address: 139 Manny Corners Road, Amsterdam, New York 12010
- Montgomery County Parcel ID: 40.-2-2 (56.94 acres after parcel combination of 44.94 acres from PIN 40.-2-2 and 12.02 acres from PIN 40.-2-4, see lot combination survey in the Special Use Permit Plan set)
- Solar Project Size: up to 5 MWs AC (~25-acre facility or 43 % of the lot)
- Solar Project Coordinates: 42.963681, -74.142018

• Parcel District: Residential 1 (R-1)

A.2 – Site Plan

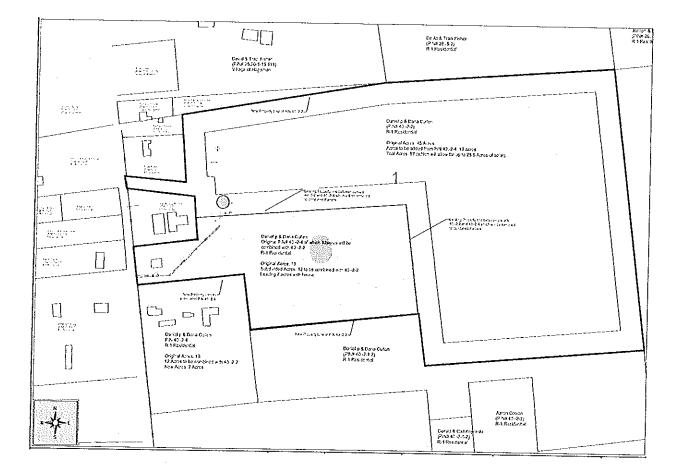
See Special Use Permit Plans for further details



A.2.1 – Zoning Standards

Article VIII-35-2: **Utility-Scale Solar Systems Review** provides that ground-mounted solar systems are allowed subject to Site Plan Review and Special Use Permit issuance in Residential 1 district (R-1). The allowed maximum lot area coverage is 50% (e.g., 50-acre maximum solar system size on a 100-acre parcel). The project hereby submitted covers approximately 43% of the proposed parcel, fulfilling the lot coverage requirement. The required setbacks are 100 feet from any external property line which is satisfied by the site plan. Screening from residential neighbors and roadways is required which will be provided. Manny's Corners project is in full compliance with these requirements.

Article VIII-35-2 Utility-Scale Solar Systems also provides that the minimum lot size for a solar array must be 50 acres in R-1. Accordingly, CPG is proposing to combined Parcel ID # 40.-2-2 (44.94 acres) with a portion of parcel 40.-2-4. Parcel 40.-2-4, which is 19.02 acres, will be subdivided with 12 acres being combined with 40.-2-2 leaving 7 acres for Parcel 40.-2-4. As a result PIN 40.-2-2 will have a combined total acres of 56.94 which will meet the 50 acre requirement. The following provides a survey of the combined lots:



A.3 – Interconnection

CPG has filed for an interconnection agreement with National Grid. The Study is in the CESIR review process and the results of the study are expected to be received in January of 2021.

Section B - The Principal Areas of Concern for Site Plan Review

- A. The balancing of landowners' right to use their land with the corresponding rights of abutting and neighboring landowners to live without undue disturbances.
 - a. CPG values the opinions and rights of adjacent landowners. The noise created by the inverters and transformers at the solar facility is similar to the noise made by electrical equipment on existing utility lines and infrastructure along Manny Corners Road. CPG has designed the facility to keep any equipment that makes noise from being less than 400ft from any residence, and as a result there will be no audible noise from the solar facility at any residence. Additionally, CPG has consulted with the neighbors and has proposed a robust landscaping plan that includes adding evergreen trees along the eastern property line of the project. These new trees will be in addition to the existing vegetation that is currently

present between the solar facility and then neighbors. CPG has provided special considerations for those neighbors closer to the facility, by providing an additional fifty feet of setbacks along the eastern edge of the project. The plans provide for more than 400ft between any noise making equipment and a residence. There will be no permanent lighting on site.

- B. The convenience and safety of vehicular and pedestrian movement within the site, and in relation to adjacent areas or roads.
 - a. The interior circulation system is adequate to provide safe accessibility to all required off-street parking and to provide for the convenience and safety of vehicular, pedestrian, and bicycle movement within the site and in relation to adjacent areas or roads. Interior access roads consist of a ~20' wide compacted dirt road. One turnaround area is provided within the interior to the site.
- C. The adequacy of waste disposal methods and protection from pollution of surface or groundwater.
 - a. During construction there will be adequate construction and human waste collection and removal systems in place. There are no polluting elements to the solar facility and accordingly during the operating period of the project there will be pollution to the surface or groundwater from the project.
- D. The protection of historic and natural environmental features on the site under review and in adjacent areas.
 - a. Correspondence from SHPO states SHPO reviewed the project and concluded there will be no impact on archaeological and/or historic resources listed in or eligible for the New York State and National Register of Historic Places.

Section C - Standards Applicable to All Special Use Permits

- A. The proposed development is compatible with nearby properties and will not discourage the appropriate development and use of adjacent properties or impair their value.
 - a. Numerous studies have shown that properly screened solar installations with appropriate setbacks do not have an impact on market prices of properties near or adjacent to a solar farm (see Attached II Valuation Study). Additionally, solar farms do not impact neighboring farmland or commercial activity.

- B. Traffic generated by the proposed development can be adequately and safely served by the existing and proposed roads and will not cause undue congestion or create a traffic hazard.
 - a. The project will not affect traffic flow as it will garner virtually no additional traffic during operation. There are usually two yearly visits for basic maintenance augmented by periodic visits to address any potential issues as they arise. Those maintenance visits will be performed by individuals that will generally have a small truck for transportation. There will be no permanent on-site employees.
- C. The proposed development will not adversely affect community character or appearance.
 - a. CPG has conducted a visual analysis with photos taken from adjacent roadways and parcels. Based on the results of the visual analysis the solar facility will not have visual impacts to residents on adjacent properties. CPG has also designed a landscape plan to screen the solar facility from adjacent residential uses. The landscape design will transition from small, to medium to large landscape species.
- D. The proposed development is appropriately located and can be adequately served by necessary community facilities, including police, fire and emergency vehicles.
 - a. Interior access roads consist of compacted dirt roads.
- E. Operation of any Special Permit use shall be no more objectionable to nearby properties by reason of dust, odor, noise, fumes, vibration, excessive lighting, or water pollution than would be the operation of any permitted use.
 - *a.* The proposed solar generation facility will not create any fumes, dust, odor, excessive lighting, vibration or water pollution. Noise created by solar generation facilities is typically generated by inverters, in the form of faint humming not audible beyond 100 feet. Interior lighting of the site is limited to low level on demand and motion detected lighting in the transformer area.
- F. The proposed use complies with the goals and objectives of the Comprehensive Plan.

a. A solar facility promotes sustainable use of energy resources and a safe environment. It will benefit both the local community and the town.

Section D – Decommissioning Plan

The facility will use solar photovoltaic technology and a single axis tracking racking system. The project will cover approximately 25 acres. As noted in the decommissioning report (see Attachment IX), the estimated cost of decommissioning the system is \$144,250. These amounts do not include the salvage value of the components.

Section E – Tree Removal and Screening

The site is screened from neighbors and public roadways on the perimeter. During the construction process, CPG anticipates removing approximately 400 trees with a base diameter in excess of 6 inches and planting approximately 85 new evergreen trees. Please see Landscape Plan in Attachment VIII for detailed information on the trees that will be planted for screening purposes.

As a part of the construction process, CPG anticipates removing approximately 400 trees with a base diameter in excess of 6 inches. To calculate the estimated tonnage of trees to be removed we walked the field and randomly sampled tree diameter. Given this is an overgrown field, we noted that there were few full-grown trees and that the majority of trees had a diameter of approximately 12 inches and only a few trees with a diameter of close to 24 inches. To determine an estimate of the tonnage of trees to be removed, we used an average tree diameter of 16 inches, a height of 56 feet, and an estimated weight of 1.5 tons (see the chart below). Based on the calculations noted above, there would be approximately 600 tons of "full tree green weight" removed from the site (400 trees x 1.5 average tons per tree). This amount is well below the maximum 1,000 tons as noted in the NYS Environmental Assessment. The following are pictures of the sites, a chart of estimated tree weight, and a depiction of the area of trees to be removed.

Estimated Tree Weights (per Dave Polak of Forestry Sciences Laboratory, U.S. Forest Service):

DBH								
Class	Total Tree Height - Feet							
Inches	40		56	64	72	80	88	96
6	220	269	318	369	420	472	524	576
8	425	519	615	712	811	910	1011	1112
10	708	865	1025	1187	1351	1516	1684	1853
12	1074	1312	1554	1800	2049	2300	2554	2811
14	1528	1866	2211	2561	2914	3272	3634	3998
16	2073	2533	(3000)	3474	3955	4440	4930	5425
18	2713	3315	3927	4548	5176	5812	6453	7101
20	3452	4218	4996	5786	6586	7394	8210	9034
22	4292	5244	6212	7194	8188	9193	10208	11233
24	5236	6398	7579	8777	9990	11216	12454	13704
26	6288	7682	9101	10539	11995	13467	14954	16455
28	7448	9100	10780	12484	14209	15953	17714	19492
30	8720	10655	12621	14616	16635	18677	20740	22820

Pictures of Trees on Site:

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Section F – Visual Analysis

The Amsterdam Solar Project is a proposed 5 MWac commercial solar facility on Manny's Corner Road in an R-1 zone. As part of the Special Use Permit process for the project, several photographs were taken from key viewpoints surrounding the site to determine the expected visual impact of the site on the surrounding community. A viewshed model was also generated for the site to further consider the effects of topography on the expected visual impact of the project. Based on the photographs taken from key viewpoints and the viewshed model generated for the project, the project will have very limited visual impact on the surrounding community.

Key Viewpoint Photography

The following pictures were collected from the viewpoint of nearby residential homes and community buildings towards the project site. Figure 1 shows the locations where photographs were taken from the subject buildings towards the direction of the project site to illustrate expected viewing opportunities of the proposed facility. These viewpoints were selected because they are located near residential buildings that are close to the project site, and are located along public rights-of-way.

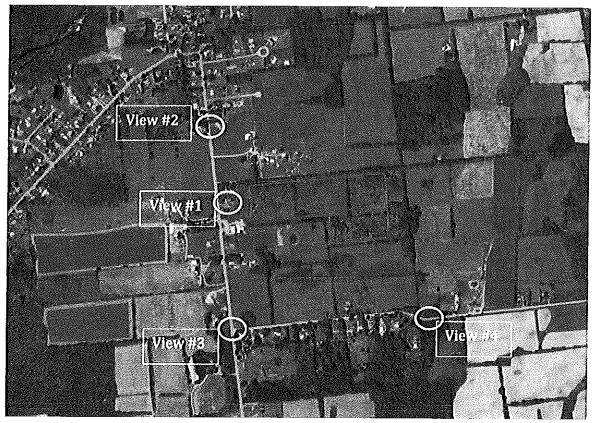
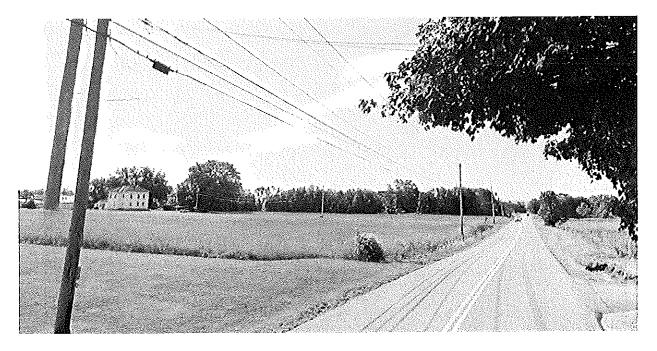


Figure 1. Viewpoints selected for photography of proposed project site

View #1



View #2



View #3



View #4



Each photograph was taken in the direction of the proposed project site, and in each case any potential viewing of the site was blocked by existing vegetation.

Viewshed Model of the Proposed Solar Facility

A half-mile viewshed model was generated for the proposed project site using the Viewshed tool (Ready to Use) within the ArcGIS Pro 2.6.2 software. Shown in Figure 2, the areas of expected positive viewing (shown in the color Orange) only take into account ground topography, and do not consider existing structures or vegetation.



Figure 2. Half-mile viewshed of proposed project based on topography

Though a significant portion of the half-mile radius out from the proposed project would potentially have a positive view of the project based on topography, there is significant vegetation in the area that would prevent almost all potential viewing on the ground. Figure 3 shows the half-mile viewshed with an overlay of existing vegetation and wooded areas to consider the effect of vegetation on any expected areas that could view the project.



Figure 3. Half Mile Viewshed with Existing Homes and Vegetation

The only properties that may potentially view the site based on existing vegetation and topography are the three properties to the west of the project along Manny's Corner Road. The center property of the three is owned by the same owner as the parcel selected for the solar facility. Vegetative screening will be installed to the west of the project so that the other two property owners have a buffer between their property and the solar project.

Conclusion

Based on the photographs taken from nearby viewpoints of the project site as well as the viewshed model with vegetation, it is expected that no surrounding property will be visually impacted by the proposed solar facility based on the expected vegetative screening.

Section G – Glare Study

CPG prepared a glare study to assess potential effects of glare on motorists travelling northbound and southbound on Manny Corners Rd. To assess these potential glare effects, CPG

utilized a glare modeling tool developed by the US Department of Energy for the Federal Aviation Administration (FAA) to protect aviation sensitive receptors called ForgeSolar. The analysis results identified the potential for glare to a driver in their peripheral vision when heading along Manny Corners Rd at sunrise during the months of April through September. However, for the most part drivers are watching the road and not looking 75-90 degrees from the vehicle where the glare occurs. Please see the full glare study as Attachment X

Section H – Noise Study

1. Impacts of Noise During Construction

The EPA document "Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety" requires that noise levels not exceed those listed in the Table below, except for construction or demolition activities for which the maximum allowable noise level is ninety decibels (90 dB) during the daytime.

Maximum Allowable Noise				
	Commercial / Industrial	Residential		
Indoor	-	45		
Outdoor	70	55		

Source: Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety, EPA

Maximum noise is expected to be produced during times when the pile driver is used to drive piles into the ground for the PV module racking supports. The closest off-site residential property is more than 100 feet from where the pile driver will be used and beyond a forest buffer. Sound levels from construction activities are not anticipated to be higher than usual in this setting.

Using the inverse square law for calculating noise levels at varying distances, the maximum allowable construction noise level allowance of 90 dB will be achieved at 70 feet from the pile driver. Additional equipment with noise levels less than the pile driver will also be used during construction, but at distances generally no closer than the pile driver to nearby residences. Construction noise impacts will be minimized and mitigated by requiring that all equipment be maintained in good operating condition and that all motors and engines be muffled according to manufacturer's specifications.

2. Impacts of Noise During Operation

Most ongoing noise generated from the electrical equipment at the Project will be from the transformers and inverters at each pad. Subject to final design, the inverters specified for this

Manny's Corners Solar - SUP Application

plant are Power Electronics Central Inverters. Applying the inverse square law of sound attenuation, the expected total sound level at 100 feet from the inverters is less than 46 dBA. Note that this value only applies during daytime operation, as the inverter enters standby mode during nighttime hours.

Typical transformers utilized for solar plants will be compliant with National Electrical Manufacturers Association (NEMA) TR-1 standards for audible sound levels, measured in accordance with American National Standards Institute/Institute of Electrical and Electronics Engineers (ANSI/IEEE) C57.12 standards. Table 2 of the NEMA TR-1 standard, "Audible Sound Levels for Liquid-Immersed Network Transformers and Step-Voltage Regulators", defines average sound level decibels based on the equivalent two-winding kVA rating of the component. Components for this plant will be rated somewhere between 1000-2500 kVA, and hence have an average unshielded sound decibel level of 58 to 62 dBA, as measured at five feet per IEEE C57.12 standards. Using the inverse square law of sound attenuation, the expected total sound level at 100 feet from the unit will be approximately 36 dBA.

Based on this analysis, the Project anticipates a low level of noise outside of the perimeter fence. Noise reduction occurs at 6 dB per double the distance. The nearest residence will be more than 100 feet from the closest inverter pad and the dB levels at this location will be well below the 65/55 dB levels identified. Effort will be taken to locate inverters as close to the interior of the solar array or away from nearby residences as is feasible. This will allow the panels themselves to provide shielding and further mitigate equipment noise.

Section I – Environmental Assessment Information

I.1 – Summary of SEQR determinations

CPG used the New York Environmental Resource Mapping tool available online at https://gisservices.dec.ny.gov/eafmapper/ to generate an Environmental Assessment Form long (also referred as "SEQR form"). Below is the summary of the findings. Please see the full form as Attachment III.

	StateR Long from	nin Spritte servid in Strock opropriet in Rective Strock op		Alexandro de las Rectanas de las comos Referencias de las comos	
Subject	Question	Answer	SEQR Call-out	Notes	
Coastal Resources	Within a Coastal Area or Designated Inland Waterway?	No			
Coastal		No			
Land Use Plans	Is the site within a special regional planning district	reş	Mohawk Valley	Doesn't look to be an issu	

Manny's Corners Solar - SUP Application

	and a station of the state of t	and the second second second second second second second second second second second second second second second	· · · · · · · · · · · · · · · · · · ·	but will be tracked
Environmental Hazards	Within 2000' of a NYSDEC Site Remediation database?	No		
Geology	Within an area with unique geological features	No No	and Na	11년 11년 11년 11년 11년 11년 11년 11년 11년 11년
Wetlands	Does any portion of the site have wetlands or other waterbodies?	Yes	Class C	Delineation complete, no
Wetlands	Do neighboring parcels have wetlands or other waterbodies?	electron de electron de elect	Stream & Federal	permits from DEC required, submitted for
Wetlands	Are any of the wetlands regulated by a federal, state, or local agency?	Yes	Waters	review to ACOE
Wetlands	Are any of the wetlands listed as a NYS quality-impaired waterbody?	No		
Floodplains	Is the project site in a floodway?	No		
Floodplains	100 year?	No	ur y e e regel y de North Color de	्रम् इ.स.
Floodplains	500 year?	No		
Aquifer	Is site located on or adjacent to a primary, principal, or sole source aquifer?	No		
Species	Does the site contain a significant natural community?	No		
Species	Does the site contain state / federally regulated threatened or endangered species?	No		
Species	Does the site contain a plant or animal classified as Rare by NYS	No		
Agricultural	Is the site in a designated agricultural district?	No		al Regional de la companya de
	Is the site on or contiguous to a National Natural Landmark?	No		
Critical Environment	is the site listed in the Critical Environment Area?	non na kapita No Nationatasia		
SHPO	Is the project site adjacent to or on any archaeological sensitive areas?	No		

I.2 – US Fish and Wildlife

The US Fish and Wildlife Service of the US Department of the Interior provided that there are no critical habitats within our project area under this Office's jurisdiction. Please see the letter from the US Fish and Wildlife Service as Attachment IV

1.3 – Division of Fish and Wildlife, NY Natural Heritage Program

The Division of Fish and Wildlife, NY Natural Heritage Program has no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity. Please see the letter from the Division of Fish and Wildlife as Attachment V

I.4 – NYS Historic Preservation

The Division of Historic Preservation of the NYS Historic Preservation Office determined that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project. Please see the letter from SHPO as Attachment VI

I.5 – NYSDEC Wetlands

We prepared and submitted a delineation of wetlands on site to the New York State Department of Environmental Conservation (NYSDEC) and they determined that no permits from their Department will be required. Please see the letter from NYSDEC as Attachment VII

I.6 – USACE Wetlands

SEQR identified federal wetlands on site. We have delineated those wetlands and are not developing on or within close proximity to them. We are working on obtaining a letter of determination from the U.S. Army Corps of Engineers (USACE) that no permit will be required.

Attachments

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Attachment I – SUP Application Form

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2/10/2011

Application #:	
Date:	

Town of Amsterdam Planning Board Application to the Planning Board

A completed Application must be filed at least fourteen (14) days prior to the meeting at which it is to be considered by the Planning Board, including all applicable attached information.

Applicant: Daniel & Dana Cullen	Applicant's Representative: Community Power Group, LCC (if applicable)
(must be property owner)	(if applicable)
Address: 139 Mannys Corners Korg	(if applicable) Address: 5636 Connecticut Ave, # 42729
Amsterdam, NY 12010	Washington NC, 20013
Phone: (518) 469-1737	Phone: (617) 365-3232
Professional Advisor:	Other :
(i.e. Engineer, Architect, Surveyor, etc.)	(if appropriate, please specify)
Address:	Address:
·	
Phone: ()	Phone: ()
Property Location Address: <u>139 Manuys</u> Co	rners Road Amsterdam, NY 12010 County
General Location: Montponerg	e County
Zoning District: Residential	
Tax Parcel ID # (SBL) 402-2	, 402-4 2 402-1.2

Type of Application (please check appropriate box(s)):

Subdivision

🗍 Site Plan

Special Use Permit

Planned Unit Development Review (formal action required by Town Board)

Attached please find Appendix A-SEQR compliance, and Appendix B-Ag. Data Statement compliance. Compliance with these items is required under the applicable NYS Laws, a brief explanation is included in the appendices to assist the applicant. For specifics on submission/application requirements, procedures, time frames, etc., the applicant should refer to the applicable Town regulations (Zoning, Subdivision, etc.) and/or NYS law (SEQR, Ag. & Markets, General Municipal, etc.).

See Attachment II 10-27-20 Applicant's Representative Date Date Applicant

		Application Date		- • •
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• •	For Planning Board Use Only		•••	•
	The Planning Board held a Public Hearing on (day)of		(date),	
`	(year) in consideration of this application.			·
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	The application is hereby:		r	• "
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Short Environmental Assessment Form Part 1 - Project Information

Instructions for Completing

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Part 1 - Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 - Project and Sponsor Information		
Name of Action or Project:		
5 MW Community Solar Project Project Location (describe, and attach a location map):		
Project Location (describe, and attach a location map):		
139 Mannys Corners Road, Ams	terdam, NY 12010	
Brief Description of Proposed Action:		
The project is proposed as a SMWa	e community solar garden	
and will generate enough power for	or approximately foo homes.	
It will be located on approximately	, 25 of 18,6 acres of	
land and will be consistent with	the planning, zoning,	
Brief Description of Profosed Action: The project is proposed as a 5 MWa and will generate enough power for It will be located on approximately land and will be consistent with building, as well as land use repr	ulations.	
Name of Applicant or Sponsor:	Telephone: 617-365-3232 _ 202416	127
Community Paser Group, UC Address: 5636 Connecticut Ave, # 42.729	E-Mail: for @ community power group. com	
Address:	Dorleousta,	
5636 Connecticut Ave, # 42729		
City/PO:	State: Zip Code:	
Washington	RC 20015	
1. Does the proposed action only involve the legislative adoption of a plan	n, local law, ordinance, NO YES	
administrative rule, or regulation?		
If Yes, attach a narrative description of the intent of the proposed action ar may be affected in the municipality and proceed to Part 2. If no, continue	to question 2.	
2. Does the proposed action require a permit, approval or funding from an		
2. Does the proposed action require a period, approval of funding from an If Yes, list agency(s) name and permit or approval:		
NYSERDA		
Sill. Total actores of the bare of the preparent statements	425 acres	
 b. Total acreage to be physically disturbed? c. Total acreage (project site and any contiguous properties) owned 	acres	
or controlled by the applicant or project sponsor?	88,60 acres	
	,	
4. Check all land uses that occur on, adjoining and near the proposed action	OR.	
Urban Rural (non-agriculture) Industrial Com		
	er (specify):	
Parkland		

Page 1 of 3

	NO	NIEG	NI/A
5. Is the proposed action, a. A permitted use under the zoning regulations?		YES	<u>N/A</u>
b. Consistent with the adopted comprehensive plan?	\Box	X	
6. Is the proposed action consistent with the predominant character of the existing built or natural		NO	YES
landscape?			X
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental An If Yes, identify:	cea7	NO	YES
		X	
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation service(s) available at or near the site of the proposed action?			
c. Are any pedestrian accommodations or bicycle routes available on or near site of the proposed act	tion?	X	\Box
9. Does the proposed action meet or exceed the state energy code requirements?		ŅO	YES
If the proposed action will exceed requirements, describe design features and technologies:		$ \mathbf{X} $	
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:		区	
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:		\mathbf{X}	
12. a. Does the site contain a structure that is listed on either the State or National Register of Historic		NO	YES
Places? b. Is the proposed action located in an archeological sensitive area?		X	
		X	
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain wetlands or other waterbodies regulated by a federal, state or local agency?	a		YES X
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody? If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:		X	
14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check a	ll that a onal	pply:	. .
Wetland Urban Suburban		NO	1000
15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?	-	NO X	YES
16. Is the project site located in the 100 year flood plain?		NO	YES
17. Will the proposed action oreate storm water discharge, either from point or non-point sources?		NO	YES
If Yes, a. Will storm water discharges flow to adjacent properties?			
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drain If Yes, briefly describe: Storm Water will not be significantly altered by development	3)?		
-			

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18. Does the proposed action include construction or other activities that result in the impoundment of	NO	YES
18. Does the proposed action include constitution of other detraited interference of the second action include constitution of other lagoon, dam)?		
If Yes, explain purpose and size:		
19. Has the site of the proposed action or an adjoining property been the location of an active or closed	NO	YES
solid waste management facility?		
If Yes, describe:	凶	
20. Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or	NO	YES
completed) for hazardous waste?		
If Yes, describe:		
	<u> </u>	
I AFFIRM THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE	BEST C	FMY
KNOWLEDGE		
Applicant/sponsor name: Community Poster Group-LLC Date: 10/21/2		
Signature:		

PRINT FORM

11

Agency Use Only [If	[applicable]
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Project:

Date:

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Short Environmental Assessment Form Part 2 - Impact Assessment

Part 2 is to be completed by the Lead Agency.

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Answer all of the following questions in Part 2 using the information contained in Part 1 and other materials submitted by the project sponsor or otherwise available to the reviewer. When answering the questions the reviewer should be guided by the concept "Have my responses been reasonable considering the scale and context of the proposed action?"

		No, or small impact may occur	Moderate to large impact may occur
1.	Will the proposed action create a material conflict with an adopted land use plan or zoning regulations?		
2.	Will the proposed action result in a change in the use or intensity of use of land?		
3.	Will the proposed action impair the character or quality of the existing community?		
4.	Will the proposed action have an impact on the environmental characteristics that caused the establishment of a Critical Environmental Area (CEA)?		
5.	Will the proposed action result in an adverse change in the existing level of traffic or affect existing infrastructure for mass transit, biking or walkway?		
6.	Will the proposed action cause an increase in the use of energy and it fails to incorporate reasonably available energy conservation or renewable energy opportunities?		
7.	Will the proposed action impact existing: a. public / private water supplies?		
	b. public / private wastewater treatment utilities?		
8.	Will the proposed action impair the character or quality of important historic, archaeological, architectural or aesthetic resources?		
9.	Will the proposed action result in an adverse change to natural resources (e.g., wetlands, waterbodies, groundwater, air quality, flora and fauna)?		
10.	Will the proposed action result in an increase in the potential for erosion, flooding or drainage problems?		
11.	Will the proposed action create a hazard to environmental resources or human health?		

PRINT FORM

Agen	cy Use Only [If applicable]
Project:	
Date:	

Short Environmental Assessment Form Part 3 Determination of Significance

For every question in Part 2 that was answered "moderate to large impact may occur", or if there is a need to explain why a particular element of the proposed action may or will not result in a significant adverse environmental impact, please complete Part 3. Part 3 should, in sufficient detail, identify the impact, including any measures or design elements that have been included by the project sponsor to avoid or reduce impacts. Part 3 should also explain how the lead agency determined that the impact may or will not be significant. Each potential impact should be assessed considering its setting, probability of occurring, duration, irreversibility, geographic scope and magnitude. Also consider the potential for shortterm, long-term and cumulative impacts.

Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action may result in one or more potentially large or significant adverse impacts and an environmental impact statement is required. Check this box if you have determined, based on the information and analysis above, and any supporting documentation, that the proposed action will not result in any significant adverse environmental impacts.		
Name of Lead Agency	Date	
Print or Type Name of Responsible Officer in Lead Agency	Title of Responsible Officer	
Signature of Responsible Officer in Lead Agency	Signature of Preparer (if different from Responsible Officer)	

PRINT FORM

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Page 2 of 2

Appendix B - Ag Data Statement MONTGOMERY COUNTY AGRICULTURAL DATA STATEMENT Agricultural District Number; Date Of Statement Completion: Date of Referral to Montgomery County Planning Board: ____ Date of Submission to Ag & Farmland Protection Board: ****************************** Do Not Write Above This Line 2 Dana Cullen APPLICANT'S AGENT: Community Power Group, LC APPLICANT: Wanie ADDRESS: 139 Mannys Corners Rd ADDRESS: 5636. Connecticut Ave. # Amsterdam, NY 12010 · Washington DC 20015 ______PHONE NO.: 617-365-3232 PHONE NO .: 518-469-1737 LOCATION OF PROPOSED PROJECT: TAX MAP NUMBER: 40.-2-2, 40.-2-4 2.40.-2-1.2 TOWN: Amsterdam, NY ... ROAD: 139 Mannys Corners Road Description of Proposed Project: The project is proposed as a 5Mh community solar garden and will generate enough powe It will foo homes. located in for approximately and will 18,6 acres of approx match land use building and the planning Zoninp. consistent requirements. List all farm operations which are within an Agricultural District and are located within 500 feet of the boundary of the property which proposes a project, ("FARM OPERATION" means the land used in agricultural production, farm buildings, equipment and farm residential buildings.) NAME: NAME: ADDRESS ADDRESS: Tax Map No. Tax Map No. NAME: ____ NAME: _ ADDRESS: ADDRESS: Tax Map No. Tax•Map No. (For additional information, please use back of this sheet)

Attachment II – Landlord Authorization

LESSOR'S AUTHORIZATION TO PERMIT

February 29th, 2020

To Whom It May Concern

Community Power Group, LLC. and its employees and affiliates are hereby authorized to act as our agent for submission of applications and related plans and documents, and to appear before boards and other officials, with respect to obtaining approvals for solar installations to be constructed on my property located at 139 Manny Corners Road, Amsterdam, NY, 12010 Parcel Number 40.-2-2 and 40.-2-4.

Sincerely,

By: Name: DAniel PCullen

Its: Owner

K. Cullen By: Name: Dana

Its: owner

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Attachment III – SEQR Long Form

Full Environmental Assessment Form Part 1 - Project and Setting

Instructions for Completing Part 1

Part 1 is to be completed by the applicant or project sponsor. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification.

Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information; indicate whether missing information does not exist, or is not reasonably available to the sponsor; and, when possible, generally describe work or studies which would be necessary to update or fully develop that information.

Applicants/sponsors must complete all items in Sections A & B. In Sections C, D & E, most items contain an initial question that must be answered either "Yes" or "No". If the answer to the initial question is "Yes", complete the sub-questions that follow. If the answer to the initial question is "No", proceed to the next question. Section F allows the project sponsor to identify and attach any additional information. Section G requires the name and signature of the applicant or project sponsor to verify that the information contained in Part 1 is accurate and complete.

A. Project and Applicant/Sponsor Information	
	•

Name of Action or Project: Community Power Group, LLC - 139 Manny Corners Road Solar Farm

Project Location (describe, and attach a general location map):

139 Mannys Corners Road, Amsterdam, New York 12010 (Montgomery County PIN: 40.-2-4)

Brief Description of Proposed Action (include purpose or need):

The purpose of the proposed project is the installation of a 5 MW ground-mounted solar facility located on Mannys Corners Road in the town of Amsterdam, New York. The proposed site is composed of one parcel that is 88.6 acres and can be identified by tax map ID: 40.-2-4.

Name of Applicant/Sponsor:	Telephone: 202-844-642	
Community Power Group, LLC	E-Mail: mborkowski@communitypowergroup.com	
Address: 5636 Connecticut Ave, #42729	I <u></u>	· · · · · · · · · · · · · · · · · · ·
City/PO: Washington	State: DC	Zip Code: 20015
Project Contact (if not same as sponsor; give name and title/role):	Telephone:	
	E-Mail:	
Address:		
City/PO:	State:	Zip Code:
Property Owner (if not same as sponsor):	Telephone: 518-843-607	/3
Daniel P Cullen & Dana K Cullen	E-Mail: rccustomsdc00@outlook.com	
Address: 139 Mannys Corners Road		
City/PO: Amsterdam	State: New York	Zip Code:

R C. + A

or Village Board of Trustees	ty □Yes [2] No	If Yes: Identify Agency and Approval(s) Required	Applica (Actual or	tion Date
or Village Board of Trustees	Ves Z No			projectedy
b. City, Town or Village Planning Board or Commissio	₩Yes□No on	Town of Amsterdam Planning Board Special Use Permit & Site Plan Review		
c. City, Town or Village Zoning Board of App	∐Yes ⊠ No eals			
d. Other local agencies	□Yes 2 No			
e. County agencies	₽Yes□No	Montgomery County Planning Board	· · · · · · · · · · · · · · · · · · ·	
f. Regional agencies	∐Yes ⊠ No			
	∎Yes⊡No	NYS DEC & SHPO	SHPO no effect letter red DEC no effect letter red	eceived on 1/31/20 ceived on 9/9/20
h. Federal agencies	∠ Yes ⊡ No	US Army Corp of Engineers	November 2020	
<i>iii</i> . Is the project site within a C C. Planning and Zoning				Yes ZNo
C.1. Planning and zoning actio		······································		
only approval(s) which must be • If Yes, complete section	granted to enab is C, F and G.	nendment of a plan, local law, ordinance, rule o ble the proposed action to proceed? nplete all remaining sections and questions in Pa		☐ Yes ₽ No
C.2. Adopted land use plans				
. Do any municipally- adopted (where the proposed action wou	(city, town, vill uld be located?	age or county) comprehensive land use plan(s)	include the site	□Yes 2 No
f Yes, does the comprehensive p vould be located?	lan include spe	cific recommendations for the site where the pr	-	☐Yes 2 No
Brownfield Opportunity Area (m within any lo (BOA); designa	ocal or regional special planning district (for ex ated State or Federal heritage area; watershed m	ample: Greenway; nanagement plan;	₩Yes∐No
or other?) f Yes, identify the plan(s): YS Heritage Areas:Mohawk Valley He	eritage Corridor			

or an adopted municipal farmland protection plan? If Yes, identify the plan(s):

C.3. Zoning	
 a. Is the site of the proposed action located in a municipality with an adopted zoning law or ordinance. If Yes, what is the zoning classification(s) including any applicable overlay district? R-1 Residence District 	₩ Yes□No
b. Is the use permitted or allowed by a special or conditional use permit?	✓ Yes No
c. Is a zoning change requested as part of the proposed action?If Yes,<i>i</i>. What is the proposed new zoning for the site?	☐ Yes 2 No
C.4. Existing community services.	
a. In what school district is the project site located? Greater Amsterdam School District	
b. What police or other public protection forces serve the project site? Montgomery County Sheriff, New York State Police	····
c. Which fire protection and emergency medical services serve the project site? Hagaman Fire Department	
d. What parks serve the project site? None.	······································
D. Project Details	
D.1. Proposed and Potential Development	
a. What is the general nature of the proposed action (e.g., residential, industrial, commercial, recreational; if mixed components)?	d, include all
b. a. Total acreage of the site of the proposed action? 88,6 acres b. Total acreage to be physically disturbed? 1,8 acres c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor? 26 acres	
 c. Is the proposed action an expansion of an existing project or use? <i>i.</i> If Yes, what is the approximate percentage of the proposed expansion and identify the units (e.g., acres, miles square feet)? % Units: 	☐ Yes 2 No , housing units,
square feet)? % Units: d. Is the proposed action a subdivision, or does it include a subdivision? If Yes, <i>i</i> . Purpose or type of subdivision? (e.g., residential, industrial, commercial; if mixed, specify types)	□Yes □ No
 ii. Is a cluster/conservation layout proposed? iii. Number of lots proposed?	Yes No
 e. Will the proposed action be constructed in multiple phases? <i>i.</i> If No, anticipated period of construction: <i>ii.</i> If Yes: 	☐ Yes 2 No
 Total number of phases anticipated Anticipated commencement date of phase 1 (including demolition) monthyear Anticipated completion date of final phase monthyear Generally describe connections or relationships among phases, including any contingencies where progred determine timing or duration of future phases: 	ss of one phase may

	ct include new resi				☐ Yes 2 No
If Yes, show nur	nbers of units prop		T + + + + + + + + + + + + + + + + + + +		
	One Family	<u>Two Family</u>	Three Family	Multiple Family (four or more)	
Initial Phase At completion		<u> </u>			
of all phases					
	osed action include	new non-residentia	al construction (inclu	iding expansions)?	⊿ Yes □ No
If Yes,	of structures	o (solar farm	inverters and transform	ner stations; also X solar panels that are 6,9	'x3 5')
<i>ii</i> . Dimensions (in feet) of largest r	proposed structure:	9' height	9' width: and 36' length	,,,,,,,
iii. Approximate	extent of building	space to be heated	or cooled:	<u>N/A</u> square feet	
h. Does the prope liquids, such a If Yes,	osed action include s creation of a wate	construction or oth er supply, reservoir	er activities that wil , pond, lake, waste la	l result in the impoundment of any agoon or other storage?	∐Yes Z No
<i>ii</i> . If a water imp	oundment, the prin	cipal source of the	water:	Ground water Surface water strea	ms Other specify:
<i>iii.</i> If other than y	vater, identify the t	ype of impounded/	contained liquids and	I their source.	
iv Approximate	size of the propose	d impoundment	Volume:	million gallone: surface areas	acres
v. Dimensions c	f the proposed dam	or impounding str	ucture:	height; length	
vi. Construction	method/materials	for the proposed da	m or impounding str	million gallons; surface area:	crete):
D.2. Project Op	erations	,			
		ant an anti-	utura au dur datura di		
Not including	general site prepar	any excavation, mation, and attion, grading or in	ning, or dredging, di stallation of utilities	ring construction, operations, or both? or foundations where all excavated	Yes No
materials will r				or roundurions where an executated	
If Yes:					
		ation or dredging?			
• Volume	terial (including ro	ck, earth, sediments	s, etc.) is proposed to	be removed from the site?	
Over wh	at duration of time	7			
iii. Describe natur	re and characteristic	cs of materials to b	e excavated or dredg	ed, and plans to use, manage or dispos	e of them.
iv. Will there be	onsite dewatering	or processing of ex	cavated materials?	······································	Yes
If yes, descri	be.	or processing or en			
					
v. What is the to	tal area to be dredg	ed or excavated? _		acres	
<i>vi.</i> What is the m	aximum area to be	worked at any one	time?	acres	
<i>viii</i> . What would b	vation require blas	pth of excavation o	r dredging?	feet	
					∐Yes ⊉ No
·					
			n of, increase or dec ch or adjacent area?	rease in size of, or encroachment	Yes No
i. Identify the w	etland or waterbod	y which would be a	iffected (by name, w	ater index number, wetland map numb	er or geographic

<i>ii.</i> Describe how the proposed action would affect that waterbody or wetland, e.g. excavation, fill, pla alteration of channels, banks and shorelines. Indicate extent of activities, alterations and additions in	cement of structures, or n square feet or acres:
<i>iii.</i> Will the proposed action cause or result in disturbance to bottom sediments? If Yes, describe:	☐Yes Z No
<i>iv.</i> Will the proposed action cause or result in the destruction or removal of aquatic vegetation? If Yes:	Yes No
 acres of aquatic vegetation proposed to be removed: 	
 expected acreage of aquatic vegetation remaining after project completion; 	
purpose of proposed removal (e.g. beach clearing, invasive species control, boat access):	
proposed method of plant removal:	
if chemical/herbicide treatment will be used, specify product(s):	
v. Describe any proposed reclamation/mitigation following disturbance:	······································
c. Will the proposed action use, or create a new demand for water? If Yes:	Yes No
<i>i</i> . Total anticipated water usage/demand per day: gallons/day	
ii. Will the proposed action obtain water from an existing public water supply?	Yes 🖉 No
If Yes:	
Name of district or service area: Does the quicting multiple particular to a service the service of th	
 Does the existing public water supply have capacity to serve the proposal? Is the project site in the existing district? 	\Box Yes \blacksquare No
 Is expansion of the district needed? 	☐ Yes ☑ No ☐ Yes ☑ No
 Do existing lines serve the project site? 	$\square Yes \square No$
<i>iii.</i> Will line extension within an existing district be necessary to supply the project?	Yes Z No
If Yes:	
Describe extensions or capacity expansions proposed to serve this project:	· · · · · · · · · · · · · · · · · · ·
• Source(s) of supply for the district:	
<i>iv.</i> Is a new water supply district or service area proposed to be formed to serve the project site?	Yes No
If, Yes:	
Applicant/sponsor for new district:	
Date application submitted or anticipated:	
Proposed source(s) of supply for new district:	
v. If a public water supply will not be used, describe plans to provide water supply for the project:	
vi. If water supply will be from wells (public or private), what is the maximum pumping capacity:	gallons/minute.
d. Will the proposed action generate liquid wastes?	☐ Yes ⊠ No
If Yes:	
 i. Total anticipated liquid waste generation per day: gallons/day ii. Nature of liquid wastes to be generated (e.g., sanitary wastewater, industrial; if combination, describe approximate volumes or proportions of each): 	e all components and
iii. Will the proposed action use any existing public wastewater treatment facilities?	☐ Yes Z No
If Yes:	
Name of wastewater treatment plant to be used: Name of district:	
 Name of district: Does the existing wastewater treatment plant have capacity to serve the project? 	☐ Yes 2 No
 Is the project site in the existing district? 	Yes ZNo
 Is expansion of the district needed? 	\square Yes \square No

	٠	Do existing sewer lines serve the project site?	Yes No
	•	Will a line extension within an existing district be necessary to serve the project?	🗌 Yes 💋 No
		If Yes:	
		Describe extensions or capacity expansions proposed to serve this project:	·
iv.		a new wastewater (sewage) treatment district be formed to serve the project site?	Yes 🛛 No
	If Y		
	•	Applicant/sponsor for new district:	
	•	Date application submitted or anticipated:	
	•	What is the receiving water for the wastewater discharge?	fuing proposed
ν.	11 pu	blic facilities will not be used, describe plans to provide wastewater treatment for the project, including speci iving water (name and classification if surface discharge or describe subsurface disposal plans):	rying proposed
	rece	aving water (name and classification if surface discharge of describe subsurface disposal plans).	
	· · · ·		······································
vi.	Desc	ribe any plans or designs to capture, recycle or reuse liquid waste:	
	18 1144		
e.	Will	the proposed action disturb more than one acre and create stormwater runoff, either from new point es (i.e. ditches, pipes, swales, curbs, gutters or other concentrated flows of stormwater) or non-point	Yes No
	sourc	es (i.e. ditches, pipes, swales, curbs, gutters or other concentrated nows of stormwater) or non-point	
1£	Yes:	ce (i.e. sheet flow) during construction or post construction?	
		much impervious surface will the project create in relation to total size of project parcel?	
	. 110 %	Square feet or acres (impervious surface)	
		Square feet or acres (parcel size)	
ii	Desc	cribe types of new point sources.	
iii	Whe	re will the stormwater runoff be directed (i.e. on-site stormwater management facility/structures, adjacent pr	operties,
	gro	undwater, on-site surface water or off-site surface waters)?	
	•	If to surface waters, identify receiving water bodies or wetlands:	
		Will stormwater runoff flow to adjacent properties?	Yes No
<i>i</i> .,	Door	s the proposed plan minimize impervious surfaces, use pervious materials or collect and re-use stormwater?	
С. С	D	the proposed plan infinitize injectious surfaces, use pervious internals of conect and to use storin rated is the proposed action include, or will it use on-site, one or more sources of air emissions, including fuel	
I.			
Ŧ£		oustion, waste incineration, or other processes or operations? identify:	
		bile sources during project operations (e.g., heavy equipment, fleet or delivery vehicles)	
	1. IVIO	the sources during project operations (e.g., nearly equipment, neer of denivery remotes)	
i	i. Stat	ionary sources during construction (e.g., power generation, structural heating, batch plant, crushers)	
•			
ii	i. Stat	ionary sources during operations (e.g., process emissions, large boilers, electric generation)	
σ.	Will	any air emission sources named in D.2.f (above), require a NY State Air Registration, Air Facility Permit,	Yes No
0,		deral Clean Air Act Title IV or Title V Permit?	
If	Yes:		
		project site located in an Air quality non-attainment area? (Area routinely or periodically fails to meet	□Yes 2 No
		ent air quality standards for all or some parts of the year)	
Ìİ.	In ad	dition to emissions as calculated in the application, the project will generate:	
	٠	Tons/year (short tons) of Carbon Dioxide (CO ₂)	
	٠	Tons/year (short tons) of Nitrous Oxide (N ₂ O)	
	٠	Tons/year (short tons) of Perfluorocarbons (PFCs)	
	٠	Tons/year (short tons) of Sulfur Hexafluoride (SF ₆)	
	٠	Tons/year (short tons) of Carbon Dioxide equivalent of Hydroflourocarbons (HFCs)	
	٠	Tons/year (short tons) of Hazardous Air Pollutants (HAPs)	

h. Will the proposed action generate or emit methane (inc landfills, composting facilities)? If Yes:	luding, but not limited to, sewage treatment plants,	Yes No
 <i>i.</i> Estimate methane generation in tons/year (metric): <i>ii.</i> Describe any methane capture, control or elimination i electricity, flaring): 		generate heat or
 Will the proposed action result in the release of air pollu quarry or landfill operations? If Yes: Describe operations and nature of emissions (e.g., 		Yes No
 j. Will the proposed action result in a substantial increase new demand for transportation facilities or services? If Yes: i. When is the peak traffic expected (Check all that apply □ Randomly between hours of to to 	y): Morning Devening Dweekend	☐Yes 2 No
 <i>iii.</i> Parking spaces: Existing	cisting roads, creation of new roads or change in existing available within ½ mile of the proposed site? portation or accommodations for use of hybrid, electric	□Yes 🗹 No
 k. Will the proposed action (for commercial or industrial p for energy? If Yes: Estimate annual electricity demand during operation of <i>ii.</i> Anticipated sources/suppliers of electricity for the projection of the projection. <i>iii.</i> Will the proposed action require a new, or an upgrade, the proposed action require a new, or an upgrade, the proposed action require a new, or an upgrade, the projection of the proposed action require a new, or an upgrade, the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the proposed action provides the prov	the proposed action:	
 1. Hours of operation. Answer all items which apply. <i>i</i>. During Construction: Monday - Friday: <u>7 am - 9 pm</u> Saturday: <u>8 am - 6 pm</u> Sunday: <u>Holidays:</u> 	A technician will visit the s <i>ii.</i> During Operations:per month for maintenance• Monday - Friday:24 hours (unmanne)• Saturday:24 hours (unmanne)• Sunday:24 hours (unmanne)• Holidays:24 hours (unmanne)	ed) ed) ed)

m. Will the proposed action produce noise that will exceed existing ambient noise levels during construction, operation, or both?	☑ Yes □No
If yes:	
<i>i</i> . Provide details including sources, time of day and duration:	
During construction, sound level will be above ambient noise levels. During operation, the sound level will not exceed ambient noise levels.	evels.
<i>ii</i> . Will the proposed action remove existing natural barriers that could act as a noise barrier or screen? Describe:	Yes No
n. Will the proposed action have outdoor lighting?	Yes 🛛 No
If yes: <i>i</i> . Describe source(s), location(s), height of fixture(s), direction/aim, and proximity to nearest occupied structures:	
<i>ii.</i> Will proposed action remove existing natural barriers that could act as a light barrier or screen?	Yes No
Describe:	<u> </u>
o. Does the proposed action have the potential to produce odors for more than one hour per day?	Yes No
If Yes, describe possible sources, potential frequency and duration of odor emissions, and proximity to nearest occupied structures:	
 p. Will the proposed action include any bulk storage of petroleum (combined capacity of over 1,100 gallons) or chemical products 185 gallons in above ground storage or any amount in underground storage? If Yes: i. Product(s) to be stored 	Yes 2No
<i>i</i> . Product(s) to be stored	· · · · · · · · · · · · · · · · · · ·
iii. Generally, describe the proposed storage facilities:	
q. Will the proposed action (commercial, industrial and recreational projects only) use pesticides (i.e., herbicides, insecticides) during construction or operation?	🗋 Yes 🛛 No
If Yes:	
<i>i</i> . Describe proposed treatment(s):	
<i>ii.</i> Will the proposed action use Integrated Pest Management Practices? r. Will the proposed action (commercial or industrial projects only) involve or require the management or disposal	☐ Yes ☑No ☑ Yes □No
of solid waste (excluding hazardous materials)?	
If Yes:	
<i>i</i> . Describe any solid waste(s) to be generated during construction or operation of the facility:	
Construction:tbd tons per3 months (unit of time)	
• Operation : <u>0</u> tons per <u>year</u> (unit of time) <i>ii.</i> Describe any proposals for on-site minimization, recycling or reuse of materials to avoid disposal as solid waste:	
Construction: Waste (wooden pallets, cardboard) will be recycled to the maximum extent practicable	
Operation: <u>N/A</u>	
<i>iii.</i> Proposed disposal methods/facilities for solid waste generated on-site:	
Construction: Local licensed waste recycler	
- Operations - N/A	
Operation: N/A	<u></u>
	,

s. Does the proposed action include construction or mod	fication of a solid waste	management facility?	Yes 🖌 No
If Yes:<i>i</i>. Type of management or handling of waste proposed other disposal activities):	for the site (e.g., recyclin	g or transfer station, composti	ng, landfill, or
 <i>ii.</i> Anticipated rate of disposal/processing: Tons/month, if transfer or other non-of- Tons/hour, if combustion or thermal to the the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the thermal to the the thermal to the the thermal to the the thermal to the thermal to the thermal to the the the the the the the the the the	reatment	nent, or	
iii. If landfill, anticipated site life:	years		
 t. Will the proposed action at the site involve the commenwaste? If Yes: Name(s) of all hazardous wastes or constituents to be 	rcial generation, treatmen		
<i>ii.</i> Generally describe processes or activities involving h	azardous wastes or const	ituents:	
<i>iii.</i> Specify amount to be handled or generated to <i>iv.</i> Describe any proposals for on-site minimization, recy	ns/month		· · · · · · · · · · · · · · · · · · ·
<i>v.</i> Will any hazardous wastes be disposed at an existing If Yes: provide name and location of facility:	offsite hazardous waste t	acility?	Yes
 E. Site and Setting of Proposed Action E.1. Land uses on and surrounding the project site a. Existing land uses. <i>i</i>. Check all uses that occur on, adjoining and near the p □ Urban □ Industrial □ Commercial ☑ Reside ☑ Forest ☑ Agriculture □ Aquatic □ Other <i>ii</i>. If mix of uses, generally describe: 	ential (suburban) 🛛 🗹 Ru	ıral (non-farm)	
b. Land uses and covertypes on the project site.			
Land use or Covertype	Current Acreage	Acreage After Project Completion	Change (Acres +/-)
 Roads, buildings, and other paved or impervious surfaces 	0	0,03	0,03
Forested	30	20	10
 Meadows, grasslands or brushlands (non- agricultural, including abandoned agricultural) 	58,6	58,6	0
 Agricultural (includes active orchards, field, greenhouse etc.) 	0	0	0
Surface water features (lakes, ponds, streams, rivers, etc.)	0	0	0
Wetlands (freshwater or tidal)	0	0	0
Non-vegetated (bare rock, earth or fill)	0	0	0
Other Describe:			

c. Is the project site presently used by members of the community for public recreation?<i>i</i>. If Yes: explain:	□Yes□No
 d. Are there any facilities serving children, the elderly, people with disabilities (e.g., schools, hospitals, licensed day care centers, or group homes) within 1500 feet of the project site? If Yes, i. Identify Facilities: 	Yes No
e. Does the project site contain an existing dam? If Yes: <i>i</i> . Dimensions of the dam and impoundment: • Dam height:	∐ Yes ⊠ No
Volume impounded: gallons OR acre-feet ii. Dam's existing hazard classification: iii. Provide date and summarize results of last inspection:	
f. Has the project site ever been used as a municipal, commercial or industrial solid waste management facility, or does the project site adjoin property which is now, or was at one time, used as a solid waste management facil	Yes No ity?
If Yes: <i>i</i> . Has the facility been formally closed?	Yes No
• If yes, cite sources/documentation:	
<i>iii.</i> Describe any development constraints due to the prior solid waste activities:	
 g. Have hazardous wastes been generated, treated and/or disposed of at the site, or does the project site adjoin property which is now or was at one time used to commercially treat, store and/or dispose of hazardous waste? If Yes: Describe waste(s) handled and waste management activities, including approximate time when activities occurred 	∐ Yes <mark>Ø</mark> No ed:
h. Potential contamination history. Has there been a reported spill at the proposed project site, or have any remedial actions been conducted at or adjacent to the proposed site?	Yes No
If Yes: <i>i</i> . Is any portion of the site listed on the NYSDEC Spills Incidents database or Environmental Site Remediation database? Check all that apply:	☐ Yes No
 ☐ Yes – Spills Incidents database ☐ Yes – Environmental Site Remediation database ☐ Neither database Provide DEC ID number(s): Provide DEC ID number(s): 	
<i>ii</i> . If site has been subject of RCRA corrective activities, describe control measures:	
<i>iii.</i> Is the project within 2000 feet of any site in the NYSDEC Environmental Site Remediation database? If yes, provide DEC ID number(s):	☐ Yes 2 No
<i>iv.</i> If yes to (i), (ii) or (iii) above, describe current status of site(s):	

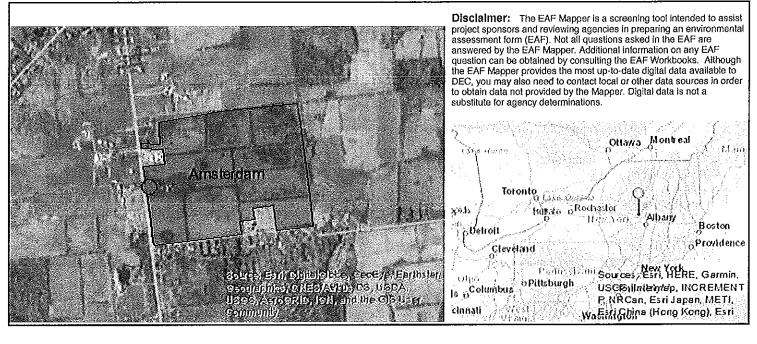
v. Is the project site subject to an institutional contro	l limiting property uses?	Ves No
 If yes, DEC site ID number:	a dead restriction or assemant).	<u>.</u>
	g., deed restriction or easement):	·····
Describe any engineering controls:		
	gineering controls in place?	☐ Yes 🗹 No
• Explain:		· · · ·
	·	
E.2. Natural Resources On or Near Project Site		
a. What is the average depth to bedrock on the project	site? <u>1.6-3,3</u> feet	
b. Are there bedrock outcroppings on the project site?		🗌 Yes 🗹 No
If Yes, what proportion of the site is comprised of bed	lrock outcroppings?%	
c. Predominant soil type(s) present on project site:	Wassaic silt loam (WaB)	33 %
	Angola silt loam (AnB) 28	,1%
	Farmington silt loam (FaB) 14	<u>,8 </u> %
d. What is the average depth to the water table on the	project site? Average:3,3 feet	
e. Drainage status of project site soils: 🗹 Well Draine	d: 14,8 % of site	
Moderately	Well Drained: 33 % of site	
🗹 Poorly Drain	red28,1 % of site	
f. Approximate proportion of proposed action site with	n slopes: 🔽 0-10%: 100 % of site	
	\square 10-15%: % of site	
	\square 15% or greater: \square % of site	
g. Are there any unique geologic features on the projectif Yes, describe:		Ves Vo
h. Surface water features.i. Does any portion of the project site contain wetland	ds or other waterbodies (including streams, rivers,	₽ Yes No
ponds or lakes)? <i>ii.</i> Do any wetlands or other waterbodies adjoin the pr	roject site?	₽ Yes □ No
If Yes to either <i>i</i> or <i>ii</i> , continue. If No, skip to E.2.i.		
<i>iii.</i> Are any of the wetlands or waterbodies within or a state or local agency?	adjoining the project site regulated by any federal,	✓ Yes□No
iv. For each identified regulated wetland and waterbo	dy on the project site, provide the following information. Classification ^C	
Lakes or Ponds: Name	Classification Classification Approximate Size	
Wetlands: Name Federal Waters, Federal Wa	eral Waters, Federal Waters Approximate Size	
• Wetland No. (if regulated by DEC) v. Are any of the above water bodies listed in the mos		
v. Are any of the above water bodies listed in the mos waterbodies?	a recent compliation of NYS water quality-impaired	Yes 🗹 No
	for listing as impaired:	
		······································
i. Is the project site in a designated Floodway?		Yes No
j. Is the project site in the 100-year Floodplain?		∐ Yes ∠ No
k. Is the project site in the 500-year Floodplain?		☐Yes ⁄ No
I. Is the project site located over, or immediately adjoi If Yes:	ning, a primary, principal or sole source aquifer?	Yes No
		····

m. Identify the predominant wildlife species that occupy or use the project site: Species common to Town of Amsterdam	· · · · · · · · · · · · · · · · · · ·
 n. Does the project site contain a designated significant natural community? If Yes: i. Describe the habitat/community (composition, function, and basis for designation): 	∐Yes ⊉ No
 ii. Source(s) of description or evaluation: iii. Extent of community/habitat: Currently: 	
 Following completion of project as proposed:	
 o. Does project site contain any species of plant or animal that is listed by the federal government or NYS as endangered or threatened, or does it contain any areas identified as habitat for an endangered or threatened spe If Yes: <i>i.</i> Species and listing (endangered or threatened): 	
 p. Does the project site contain any species of plant or animal that is listed by NYS as rare, or as a species of special concern? If Yes: i. Species and listing: 	
q. Is the project site or adjoining area currently used for hunting, trapping, fishing or shell fishing? If yes, give a brief description of how the proposed action may affect that use:	Yes
E.3. Designated Public Resources On or Near Project Sife	
 a. Is the project site, or any portion of it, located in a designated agricultural district certified pursuant to Agriculture and Markets Law, Article 25-AA, Section 303 and 304? If Yes, provide county plus district name/number: 	∐Yes ⊠ No
 b. Are agricultural lands consisting of highly productive soils present? <i>i.</i> If Yes: acreage(s) on project site? The land is considered Prime Farmland and would be highly productive if properly dra <i>ii.</i> Source(s) of soil rating(s): NRCS soil survey 	¥es∐No ained
 c. Does the project site contain all or part of, or is it substantially contiguous to, a registered National Natural Landmark? If Yes: i. Nature of the natural landmark: ii. Biological Community iii. Provide brief description of landmark, including values behind designation and approximate size/extent: 	∐Yes ⊉ No
 d. Is the project site located in or does it adjoin a state listed Critical Environmental Area? If Yes: i. CEA name: ii. Basis for designation: iii. Designating agency and date: 	☐ Yes ⁄⁄ No

e. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or district which is listed on the National or State Register of Historic Places, or that has been determined by the Commiss Office of Parks, Recreation and Historic Preservation to be eligible for listing on the State Register of Historic I	Yes No sioner of the NYS
If Yes:	lavest
<i>i</i> . Nature of historic/archaeological resource: Archaeological Site Historic Building or District	
<i>ii.</i> Name:	
iii. Brief description of attributes on which listing is based:	
f. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?	☐ Yes Ø No
g. Have additional archaeological or historic site(s) or resources been identified on the project site? If Yes:	Yes No
i. Describe possible resource(s):	
ii. Basis for identification:	
h. Is the project site within fives miles of any officially designated and publicly accessible federal, state, or local scenic or aesthetic resource?	Ves No
If Yes:	
i. Identify resource:	
<i>ii.</i> Nature of, or basis for, designation (e.g., established highway overlook, state or local park, state historic trail o etc.):	r scenic byway,
iii. Distance between project and resource: miles.	
i. Is the project site located within a designated river corridor under the Wild, Scenic and Recreational Rivers Program 6 NYCRR 666?	Yes No
If Yes:	
<i>i</i> . Identify the name of the river and its designation:	<u></u>
ii. Is the activity consistent with development restrictions contained in 6NYCRR Part 666?	☐ Yes ☐ No
F. Additional Information	
Attach any additional information which may be needed to clarify your project.	
If you have identified any adverse impacts which could be associated with your proposal, please describe those in measures which you propose to avoid or minimize them.	mpacts plus any

G. Verification

I certify that the information provided is true to the best of my knowled	lge.		
Applicant/Sponsor NameCommunity Power Group, Michael Borkowski	-	10/23/20	
Signature	Title	President	_



No
No
Yes - Digital mapping data are not available for all Special Planning Districts. Refer to EAF Workbook.
NYS Heritage Areas: Mohawk Valley Heritage Corridor
Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
No
No
Yes
Yes
Yes - Digital mapping information on local and federal wetlands and waterbodies is known to be incomplete. Refer to EAF Workbook.
876-140
C
Federal Waters
No
No
No

E.2.k. [500 Year Floodplain]	No
E.2.I. [Aquifers]	No
E.2.n. [Natural Communities]	No
E.2.o. [Endangered or Threatened Species]	No
E.2.p. [Rare Plants or Animals]	Νο
E.3.a. [Agricultural District]	Νο
E.3.c. [National Natural Landmark]	Νο
E.3.d [Critical Environmental Area]	Νο
E.3.e. [National or State Register of Historic Places or State Eligible Sites]	Digital mapping data are not available or are incomplete. Refer to EAF Workbook.
E.3.f. [Archeological Sites]	No
E.3.i. [Designated River Corridor]	Νο

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Attachment IV – Letter from US Fish & Wildlife



United States Department of the Interior

FISH AND WILDLIFE SERVICE New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 Phone: (607) 753-9334 Fax: (607) 753-9699 http://www.fws.gov/northeast/nyfo/es/section7.htm



In Reply Refer To: Consultation Code: 05E1NY00-2020-SLI-2845 Event Code: 05E1NY00-2020-E-08490 Project Name: Manny Corners-Amsterdam May 08, 2020

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

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*). This list can also be used to determine whether listed species may be present for projects without federal agency involvement. New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list.

Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC site at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list. If listed, proposed, or candidate species were identified as potentially occurring in the project area, coordination with our office is encouraged. Information on the steps involved with assessing potential impacts from projects can be found at: <u>http://www.fws.gov/northeast/nyfo/es/section7.htm</u>

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan (<u>http://www.fws.gov/windenergy/</u>

<u>eagle_guidance.html</u>). Additionally, wind energy projects should follow the Services wind energy guidelines (<u>http://www.fws.gov/windenergy/</u>) for minimizing impacts to migratory birds and bats.

Guidance for minimizing impacts to migratory birds for projects including communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: <u>http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm; http://www.towerkill.com; and http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/Hazards/correntBirdIssues/correntBirdIssues/Hazards/correntBird</u>

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the ESA. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

Official Species List

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

This species list is provided by:

New York Ecological Services Field Office 3817 Luker Road Cortland, NY 13045-9385 (607) 753-9334

Project Summary

Consultation Code: 05E1NY00-2020-SLI-2845

Event Code: 05E1NY00-2020-E-08490

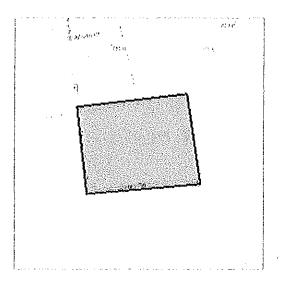
Project Name: Manny Corners-Amsterdam

Project Type: SPECIAL USE PERMIT

Project Description: This project is a community solar project in Manny Corners, Amsterdam.

Project Location:

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/place/42.96271167852163N74.14300454506349W</u>



Counties: Montgomery, NY

Endangered Species Act Species

There is a total of 0 threatened, endangered, or candidate species on this species list.

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

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

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

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

Critical habitats

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

Attachment V – Letter from the Division of Fish and Wildlife, NY Natural Heritage Program

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Fish and Wildlife, New York Natural Heritage Program 625 Broadway, Fifth Floor, Albany, NY 12233-4757 P: (518) 402-8935 (F: (518) 402-8925 www.dec.ny.gov

February 2, 2020

Nick Mento Community Power Group, LLC 4849 Rugby Avenue, Suite 1000 Bethesda, MD 20814

Re: Amsterdam Solar I County: Montgomery Town/City: Amsterdam

Dear Mr. Mento:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at the project site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the NYS DEC Region 4 Office, Division of Environmental Permits, at dep.r4@dec.ny.gov.

Sincerely,

andrea Chalony

Andrea Chaloux Environmental Review Specialist New York Natural Heritage Program

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Environmental Conservation

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Attachment VI – Letter from the NYS Historic Preservation Office



Parks, Recreation, and Historic Preservation

ANDREW M. CUOMO Governor

ERIK KULLESEID Commissioner

January 31, 2020

Nick Mento Project Manager Community Power Group 4849 Rugby Avenue Suite 1000 Bethesda, MD 20814

Re: SEQRA Mannys Corners Solar Facility Mannys Corners Road, Amsterdam, NY 20PR00474

Dear Nick Mento:

Thank you for requesting the comments of the Office of Parks, Recreation and Historic Preservation (OPRHP). We have reviewed the project in accordance with the New York State Historic Preservation Act of 1980 (Section 14.09 of the New York Parks, Recreation and Historic Preservation Law). These comments are those of the OPRHP and relate only to Historic/Cultural resources. They do not include potential environmental impacts to New York State Parkland that may be involved in or near your project. Such impacts must be considered as part of the environmental review of the project pursuant to the State Environmental Quality Review Act (New York Environmental Conservation Law Article 8) and its implementing regulations (6 NYCRR Part 617).

Based upon this review, it is the opinion of OPRHP that no properties, including archaeological and/or historic resources, listed in or eligible for the New York State and National Registers of Historic Places will be impacted by this project.

If further correspondence is required regarding this project, please be sure to refer to the OPRHP Project Review (PR) number noted above.

Sincerely,

R. Daniel Mackay

Deputy Commissioner for Historic Preservation Division for Historic Preservation , . .

Attachment VII – Letter from the NYSDEC Wetlands

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Permits, Region 4 1130 North Westcott Road, Schenectady, NY 12306-2014 P: (518) 357-2069 FF: (518) 357-2460 www.dec.ny.gov

September 9, 2020

Olena Botshten Community Power Group (via email <u>obotshteyn@communitypowergroup.com</u>)

> RE: JURISDICTIONAL INQUIRY RESPONSE Solar Array 139 Mannys Corners Rd Town of Amsterdam, Montgomery County

Dear Olena:

Thank you for contacting the Department with regard to a proposed solar farm at 139 Mannys Corners Road in Amsterdam. Based on the project information which you provided and the resources identified, no permits from this Department will be required.

Federal Wetlands:

It appears that a federally-regulated waterbody is located on the subject property. Work within certain wetlands and other waters of the United States may require a permit from the U.S. Army Corps of Engineers (USACE). For more information on Water Quality Certifications, please refer to the following website link: <u>http://www.dec.ny.gov/permits/6546.html</u>.

You should contact the USACE to determine whether your project requires an approval from their office. You can reach Brad Sherwood of the USACE at <u>brad.sherwood@usace.army.mil</u>.

Stormwater State Pollutant Discharge Eliminations System (SPDES) Permit For Construction Activities:

Any project which results in a disturbance of one acre or more of land, must be in compliance with the State Pollutant Discharge Elimination System (SPDES) Phase II regulations for Stormwater Discharges Associated with Construction Activities. Information regarding the SPDES General Permit for Stormwater Discharges can be found on the Department's website at <u>http://www.dec.ny.gov/chemical/8468.html</u>.



Please feel free to contact me if you have any questions.

Sincerely,

Mancy M Baker

Nancy M. Baker Regional Permit Administrator



Attachment VIII – Landscape Plan

See XII

Attachment X – Glare Study

Mannys Corners Community Solar Glare Study

October 2020

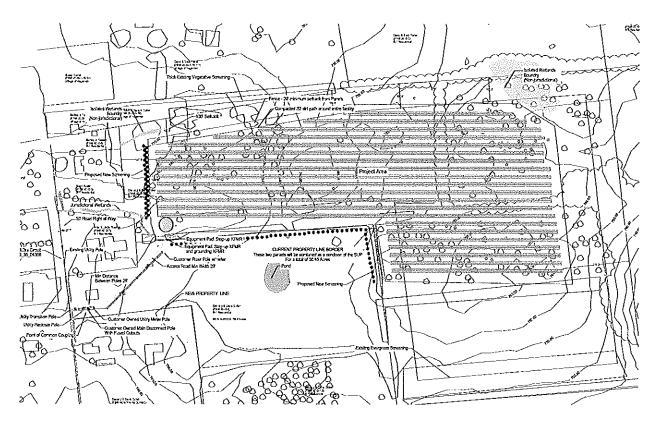
Prepared For: Town of Amsterdam, NY



Page 35 of 48

1. Executive Summary

Community Power Group ("CPG") is developing a 5.0 MW solar photovoltaic project (the "Project") located at 139 Mannys Corners, Amsterdam NY 12010. The Project is located on vacant land (see Figure below) with agricultural and forested lands in all directions and only a few residential homes in the immediate vicinity. The project consists of a solar array with a nameplate capacity of 5.0 MW.



CPG has been asked to prepare a glare study to assess potential effects of glare on motorists travelling northbound and southbound on Manny Corners Road. To assess these potential glare effects, CPG utilized a glare modeling tool developed by the US Department of Energy for the Federal Aviation Administration (FAA) to protect aviation sensitive receptors called ForgeSolar. For this project, we have used the tool to assess sensitive areas along those roads using both the point receptor modelling (that looks at specific points along each road) as well as route receptor modeling which shows a continuum along the entire route. The receptor(s) assumed is a driver in a tractor trailer with a viewing position 10 feet above the roadway and assumes NO screening or vegetation.

For our assessment we plotted a route assuming two-way traffic on Manny's Corners Road and identified three receptor points. The analysis results identified the potential for glare to a driver

in their peripheral vision when going southbound on Manny's Corners Road at sunrise in the months of April and September. However, for the most part drivers are watching the road and not looking 75-90 degrees from the vehicle where the glare occurs. Glare can continue to occur to the side of the vehicle for approximately 1/4 of a mile. Assuming a vehicle traveling at 65 miles per hour, the duration of the glare event to the side of the vehicle would be approximately 13 seconds. It would be possible to see this glare during a 20-minute window around 6:00am in mid-April and the end of September on Manny's Corners Road.

This Technical Memorandum further describes the project, methodology, results, and mitigation.

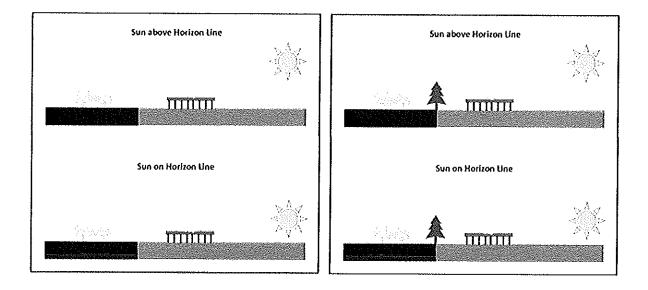
2. Solar Glare Policy

On October 23, 2013, the Federal Aviation Administration (FAA) published "Interim Policy, FAA Review of Solar Energy System Projects on Federally-Obligated Airport" in the Federal Register. The Policy sets forth methods for assessing glare and the standards for determining impact for projects proposed on airport property. It also requires the use of glare modeling to assess glare and directs project proposers to the Solar Glare Hazard Analysis Tool (SGHAT) which was developed by the US Department of Energy at the request of the FAA. The US Department of Defense has also adopted SGHAT and the associated requirements to analyze glare under Instruction (DODI) 4165.57. Given the critical safety issues associated with aviation, the model produces a credible result that is being used to evaluate other glare sensitive receptors such as specific road routes relating to vehicular traffic or the glare at specific vantage points. The tool takes topography and the height of the panels and the observation points into account. However, the tool does not have the ability to take into account existing or proposed vegetation. In our analysis we will provide an assessment of any proposed impacts from glare as well as methods to mitigate such glare through the use of vegetative screening.

3. Glare Methodology and Standard of Impact

Determination of glare occurrence from a solar PV project requires knowledge of the sun position, observer location, and the characteristics of the solar panels (e.g. tilt, orientation, location, extent, etc.). Vector algebra is then used to determine if glare is visible from the prescribed observation points. Figure 2 provides a simple representation of how the sun can produce glare on an air traffic control tower for a specific time and location. As the sun moves, the incidence of glare ends. The angle of the light source from the sun must be equal to the angle of the reflection on a receptor. Therefore, when receptors are close to the ground (like house or cars), the reflection is only possible when the sun is also close to the ground (i.e., near

sunrise or sunset). As the sun moves, the incidence of glare ends. Once areas of potential glare are determined, appropriate vegetative screening can be utilized to mitigate any potential negative impacts.



The SGHAT model is a credible tool for predicting glare based on the characteristics of the project and the identified receptor. It produces results that identify three categories of glare: green (low potential for an after-image), yellow (potential for an after-image), and red (retinal burn). These categories are utilized for strict FAA Policy relating to air traffic controllers and avionic pilots. For non-aviation receptors, like a car, truck or house the results are simply used to determine if glare is predicted or not.

4. SGHAT Model Setup for Proposed Project

Regardless of the receptor to be analyzed, the model set-up entails locating the solar project, inputting its design characteristics, and identifying sensitive receptors for analysis. The position and movement of the sun throughout the year is built into the modeling program. For this solar project, the PV project polygon tool was used to draw the footprint of the solar array on SGHAT's interactive google map. The specific array attributes including a fixed panel system, 25° tilt angle and a 180° azimuth were input as was the average panel height of 5.25 feet (panel mid-height) above ground level (agl), and a panel surface with no anti-reflective coating as a baseline. As the area of interest are segments of highway on either side of the project site with relative straight paths of highway and flatness, we used the "route receptor tool" for this analysis. The observer route was set at 10 feet above ground level for trucks on the road (since cars are lower, they would be impacted less). The Figure below shows the location of the route relative to the project.

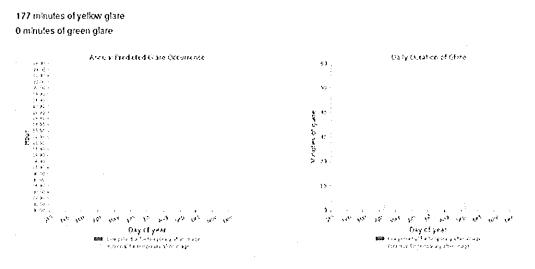


The glare analysis button was activated and the model evaluated glare from various sun angles at 1- minute intervals throughout the year to predict if glare could be observed by the sensitive receptors.

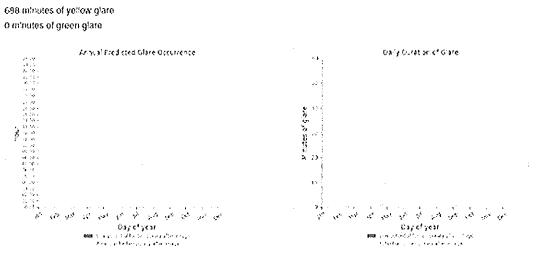
5. Glare Model Results

Point receptors: The model indicated the potential for glare on point receptors at two specific times. On Point Receptor 1, which is located on the northeast corner of the parcel the model predicts the potential for glare as the sun rises for vehicles heading north at approximately 6am to 6:10am in the months of April and September as follows:

Point Receptor: OP 1



On Point Receptor 2, which is located to the south of the Point Receptor 1, the model predicts the potential for glare as the sun rises for vehicles heading north at approximately 6am to 6:20am in the months of April and September as follows:



Point Receptor: OP 2

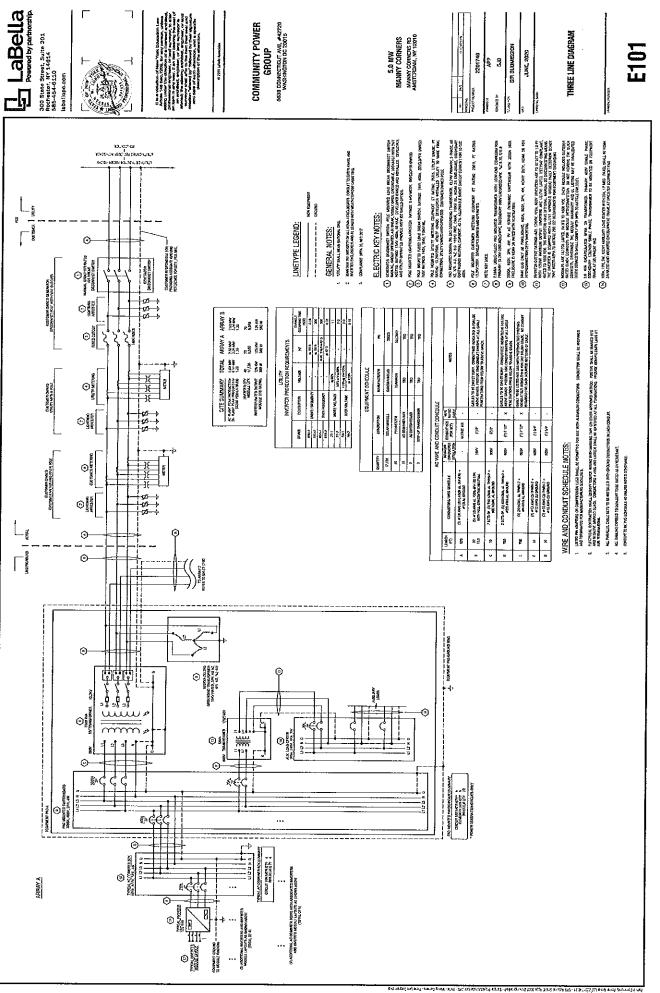
There is no glare detected from Point Receptor 3.

Attachment XI – Three Line Diagram

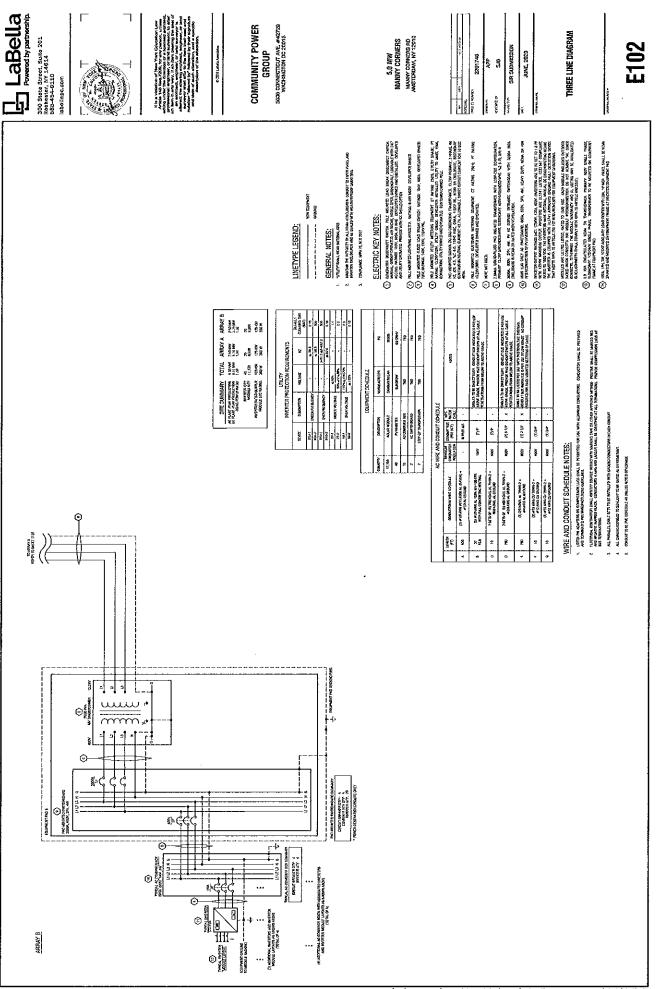


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2.2237181294229 (2010) (2010) (2010) 2.723718129423 (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010) (2010)



Attachment XII – General Site Plans

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Attachment IX – Decommissioning Plan

Mannys Corners Community Solar Decommissioning Plan

October 2020

Prepared For: Town of Amsterdam, NY



Page 29 of 48

1. Executive summary

The 139 Mannys Corners Solar Farm is proposed to be a 5 Megawatt (MW) solar energy conversion system located at 139 Mannys Corners Road, Amsterdam NY 12010. The facility will use solar photovoltaic technology and a single axis tracking racking system. The project will cover approximately 25 acres. As noted in this report the estimated cost of decommissioning the system is \$144,250. These amounts do not include the salvage value of the components, which has been provided in a separate document.

2. Project information

Solar Project Address:	139 Mannys Corners Road, Amsterdam, New York 12010	
Parcel ID:	402-4	
Solar Project Size:	up to 5 MWs AC (less than 25 acre facility)	
Solar Project Type:	Community Solar	
Land Agreement:	Solar Lease Agreement with Daniel and Dana Cullen	

3. Decommissioning of the Solar Facility

At the time of decommissioning, the installed components will be removed, reused, disposed of, and recycled, where possible. The Facility Site will be restored to a state similar to its pre-construction condition. All removal of equipment will be done in accordance with any applicable regulations and manufacturer recommendations. All applicable permits will be acquired.

3.1 Equipment Dismantling and Removal

Generally, the decommissioning of a Solar Facility proceeds in the reverse order of the installation.

- 1. The Solar Facility shall be disconnected from the utility power grid.
- 2. PV modules shall be disconnected, collected, and disposed at an approved solar module recycler or reused / resold on the market. Although the PV modules will not be cutting edge technology at the time of decommissioning, they are estimated to still produce 80% of the original electricity output at year 25 and retain value for many years.

- 3. All aboveground and underground electrical interconnection and distribution cables shall be removed and disposed off-site by an approved facility.
- 4. Galvanized steel PV module support and racking system support posts shall be removed and disposed off-site by an approved facility.
- 5. Electrical and electronic devices, including transformers and inverters shall be removed and disposed off-site by an approved facility.
- 6. Concrete foundations shall be removed and disposed off-site by an approved facility.
- 7. Fencing shall be removed and will be disposed off-site by an approved facility.

3.2 Environmental Effects

Decommissioning activities, particularly the removal of project components could result in environmental effects similar to those of the construction phase. Mitigation measures similar to those employed during the construction phase of the Solar Facility will be implemented. These will remain in place until the site is stabilized in order to mitigate erosion and silt/sediment runoff and any impacts on the significant natural features or water bodies located adjacent to the Facility Site.

Road traffic will temporarily increase due to the movement of decommissioning crews and equipment. There may be an increase in particulate matter (dust) in adjacent areas during the decommissioning phase. Decommissioning activities may lead to temporary elevated noise levels from heavy machinery and an increase in trips to the project location. Work will be undertaken during daylight hours and conform to any applicable restrictions.

3.3 Site Restoration

Through the decommissioning phase, the Facility Site will be restored to a state similar to its pre-construction condition. All project components will be removed. Rehabilitated lands may be seeded with a low-growing species such as clover to help stabilize soil conditions, enhance soil structure, and increase soil fertility.

3.4 Managing Materials and Waste

During the decommissioning phase a variety of excess materials and wastes will be generated. Most of the materials used in a Solar Facility are reusable or recyclable and some equipment may have manufacturer take-back and recycling requirements. Any remaining materials will be removed and disposed of off-site at an appropriate facility. CPG will establish policies and procedures to maximize recycling and reuse and will work with manufacturers, local subcontractors, and waste firms to segregate material to be disposed of, recycled, or reused.

CPG will be responsible for the logistics of collecting and recycling the PV modules and to minimize the potential for modules to be discarded in the municipal waste stream.

3.5 Decommissioning During Construction or Abandonment Before Maturity

In case of abandonment of the Solar Facility during construction or before its 25 year maturity, the same decommissioning procedures as for decommissioning after ceasing operation will be undertaken and the same decommissioning and restoration program will be honored, in as far as construction proceeded before abandonment. The Solar Facility will be dismantled, materials removed and disposed, the soil that was removed will be graded and the site restored to a state similar to its pre-construction condition.

3.6 Decommissioning Notification

Decommissioning activities may require the notification of stakeholders given the nature of the works at the Facility Site. The local municipality in particular will be notified prior to commencement of any decommissioning activities. Six months prior to decommissioning, CPG will update their list of stakeholders and notify appropriate municipalities of decommissioning activities.

Material / Waste	Means of Managing Excess Materials and Waste
PV panels	If there is no possibility for reuse, the panels will either be returned to the manufacturer for appropriate disposal or will be transported to a recycling facility where the glass, metal and semiconductor materials will be separated and recycled.
Metal array mounting racks and steel supports	These materials will be disposed off-site at an approved facility.

4. Management of Excess Materials and Waste

1	1
Transformers and substation components	The small amount of oil from the transformers will be removed on-site to reduce the potential for spills and will be transported to an approved facility for disposal. The substation transformer and step-up transformers in the inverter units will be transported off-site to be sent back to the manufacturer, recycled, reused, or safely disposed off-site in accordance with current standards and best practices.
Inverters, fans, fixtures	The metal components of the inverters, fans and fixtures will be disposed of or recycled, where possible. Remaining components will be disposed of in accordance with the standards of the day.
Gravel (or other granular)	It is possible that the municipality may accept uncontaminated material without processing for use on local roads, however, for the purpose of this report it is assumed that the material will be removed from the project location by truck to a location where the aggregate can be processed for salvage. It will then be reused as fill for construction. It is not expected that any such material will be contaminated.
Geotextile fabric	It is assumed that during excavation of the aggregate, a large portion of the geotextile will be "picked up" and sorted out of the aggregate at the aggregate reprocessing site. Geotextile fabric that is remaining or large pieces that can be readily removed from the excavated aggregate will be disposed of off-site at an approved disposal facility.
Concrete inverter/transforme r Foundations	Concrete foundations will be broken down and transported by certified and licensed contractors to a recycling or approved disposal facility.
Cables and wiring	The electrical line that connects the substation to the point of common coupling will be disconnected and disposed of at an approved facility. Support poles, if made of untreated wood, will be chipped for reuse. Associated electronic equipment (isolation switches, fuses, metering) will be transported off-site to be sent back to the manufacturer, recycled, reused, or safely disposed off-site in accordance with current standards and best practices.

Fencing	Fencing will be removed and recycled at a metal recycling facility.	
Debris	Any remaining debris on the site will be separated into recyclables/residual wastes and will be transported from the site and managed as appropriate.	

5. Costs of decommissioning

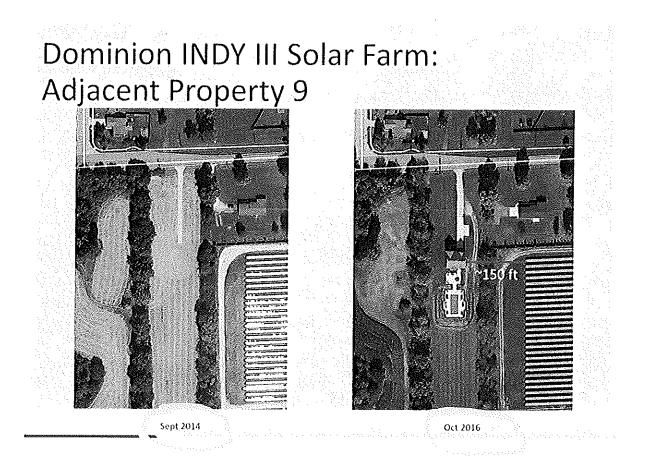
The costs below are the current estimated costs to decommission a 5 MWac Solar Facility, based on guidance from NYSERDA and estimates from the New York solar market. The salvage values of valuable recyclable materials (aluminum, steel, copper, etc) are not factored into the below costs. The scrap value will be determined on current market rates at the time of salvage.

Tasks	Estimated Cost (\$)
Remove Panels	\$6,150
Dismantle Racks	\$30,850
Remove and Load Electrical Equipment	\$4,600
Break up Concrete Pads	\$3,750
Remove Racks	\$19,500
Remove Cable	\$16,250
Remove Ground Screws and Power Poles	\$34,600
Remove Fence	\$12,300
Grading	\$10,000
Seed Disturbed Areas	\$650
Truck to Recycling Center	\$5,600
Total	\$144,250

Attachment XIII – Site Plan with Property Lines

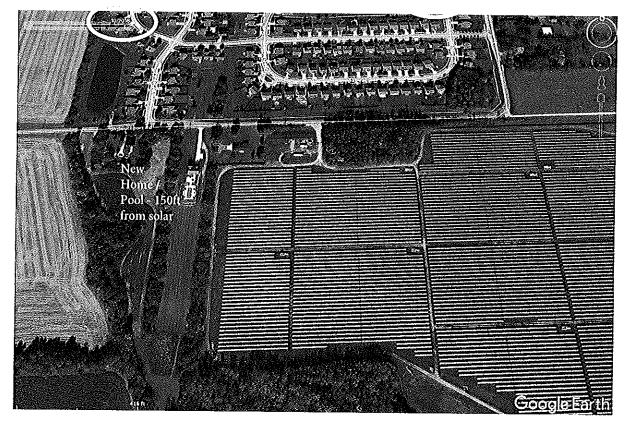
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Attachment XIV – Property Evaluation Study





Market Price Analysis 2012 - Pre-Solar Construction



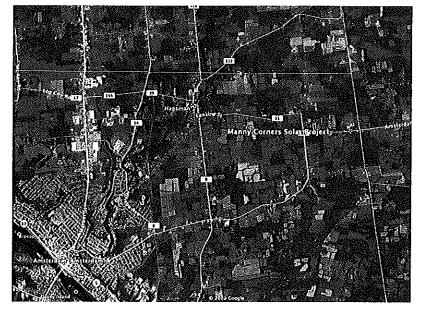
2016 - Post Construction - 8.6 MW / 134 Acres

Manny Corner's Community Solar Garder

139 Manny Corners Road, Amsterdam, NY 12010

Special Use Permit Plans

REGIONAL MAP



	CONTACT	INFORMATION		
	COMPANY	CONTACT	PHONE	ADDRESS
PROJECT OWNER/DEVELOPER	Community Power Group, 11		2)2-844-6423	6.56 <u>42.2</u> 200
EPC CONTRACTOR	TBD	(18D	TBD	тво
CTVAL ENGINEER		TBD	TBD	T&D

VICINITY MAP

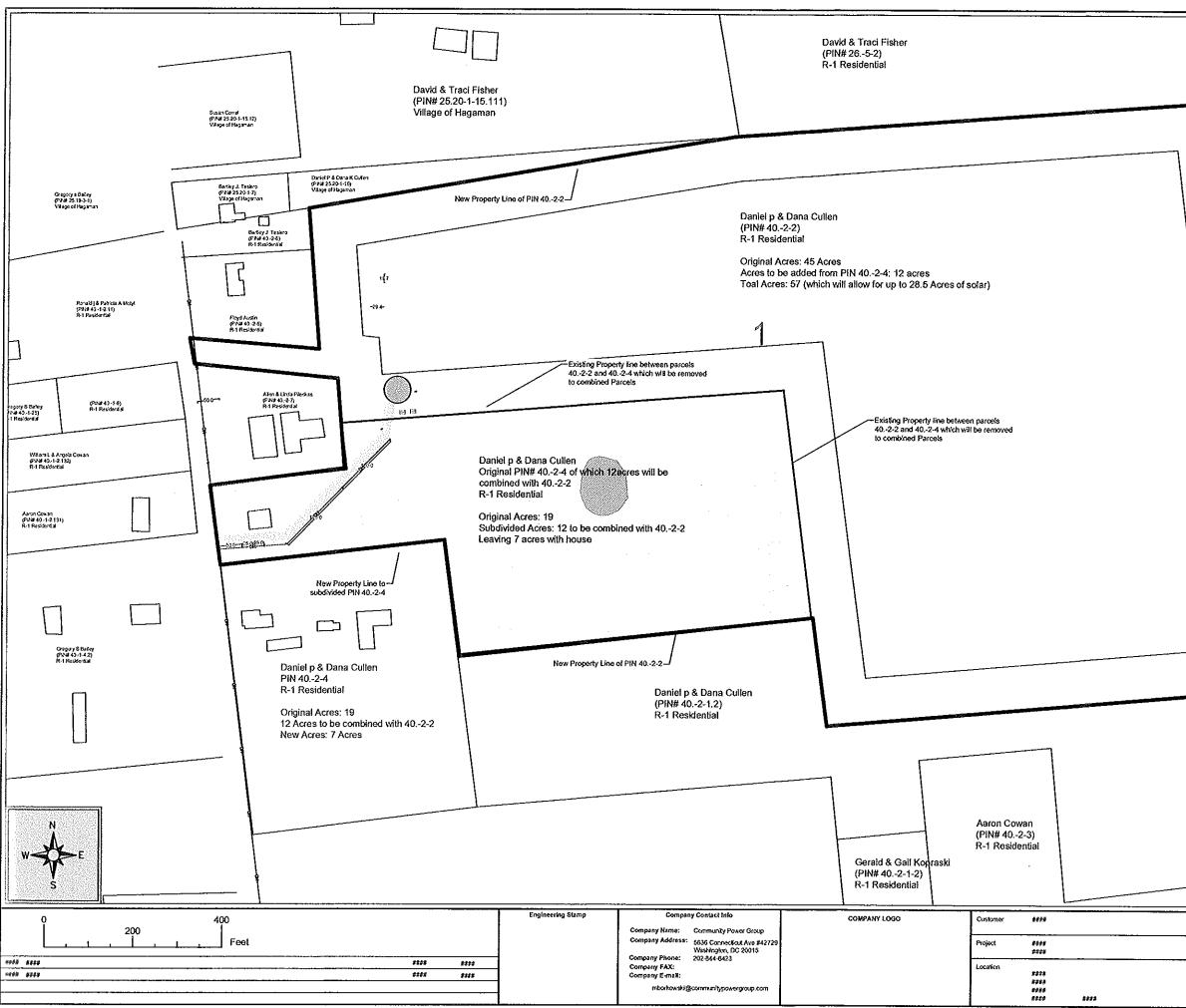


Shee	et List Table
Sheet Number	Sheet Title
T.100	Cover
C.100	Stamped Site Plan
C200	New Parcel Lines
C300	Site Pian - Topo
C.500	Construction Details
C501	Construction Details
C.502	Racking
C.600	Landscape Details

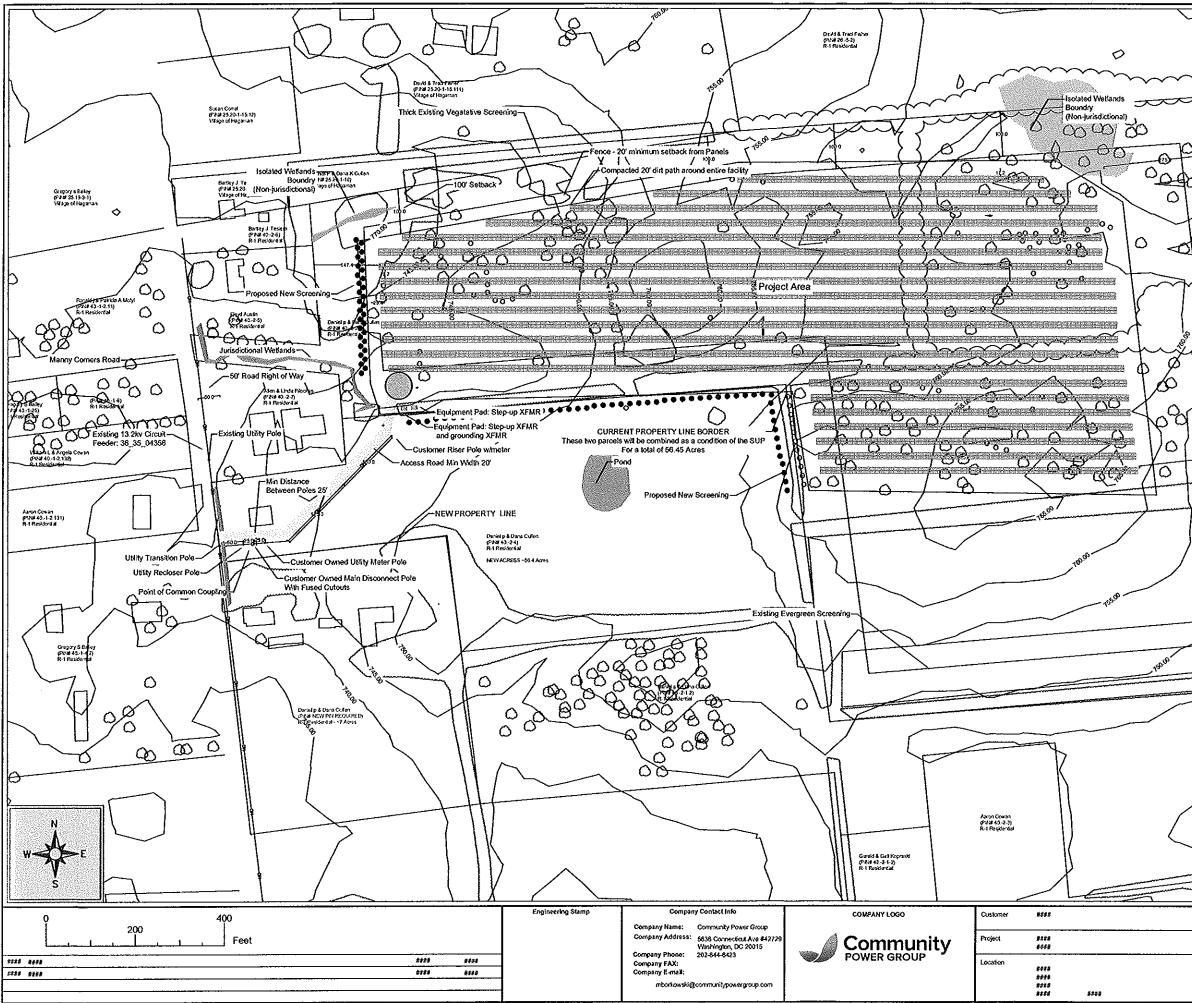
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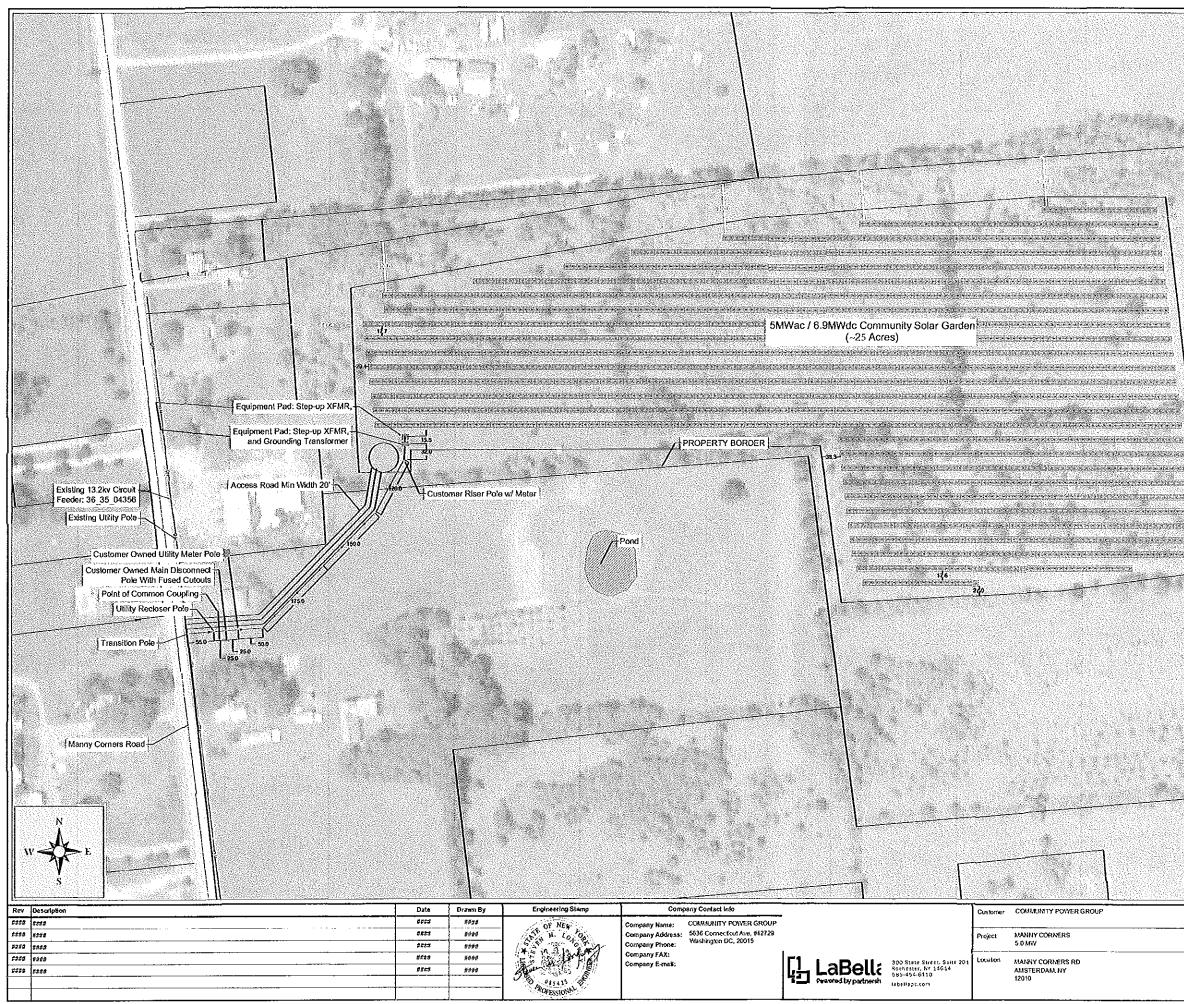
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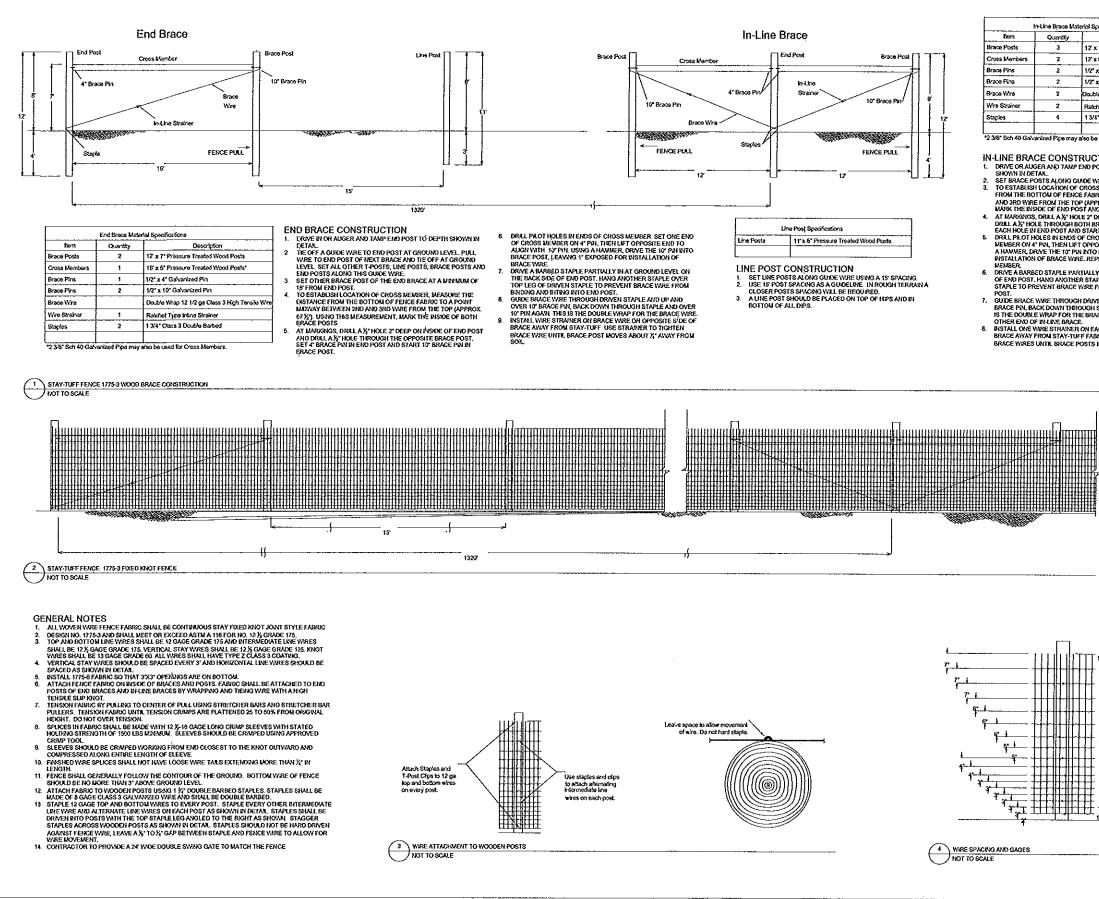


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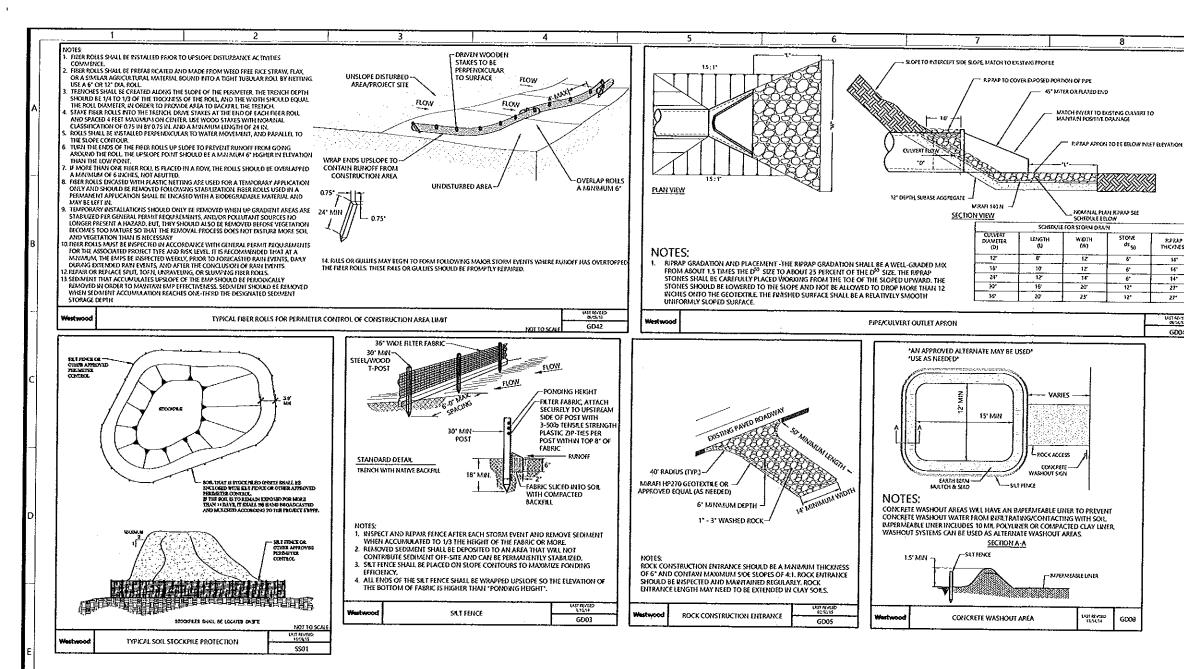
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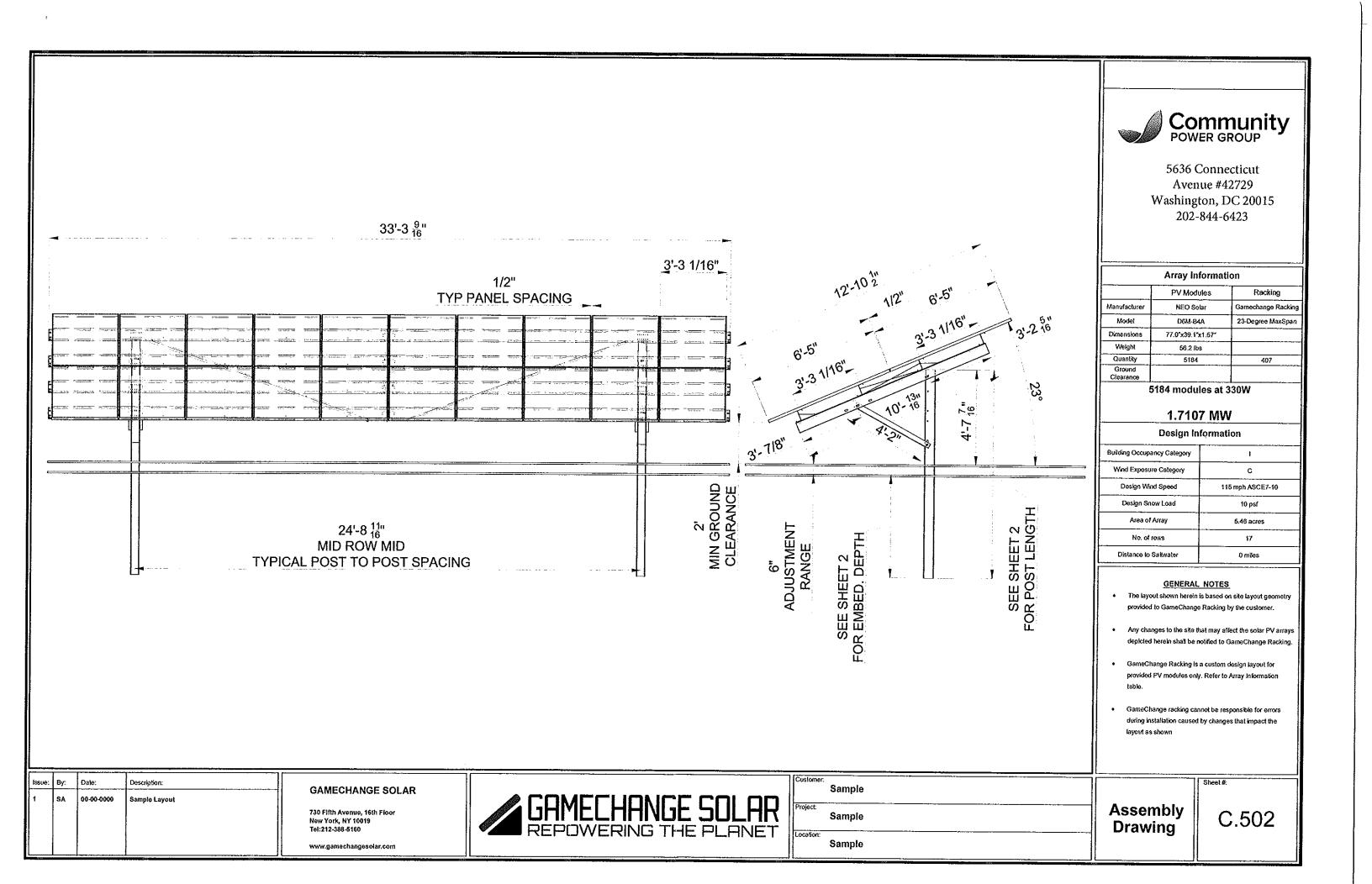


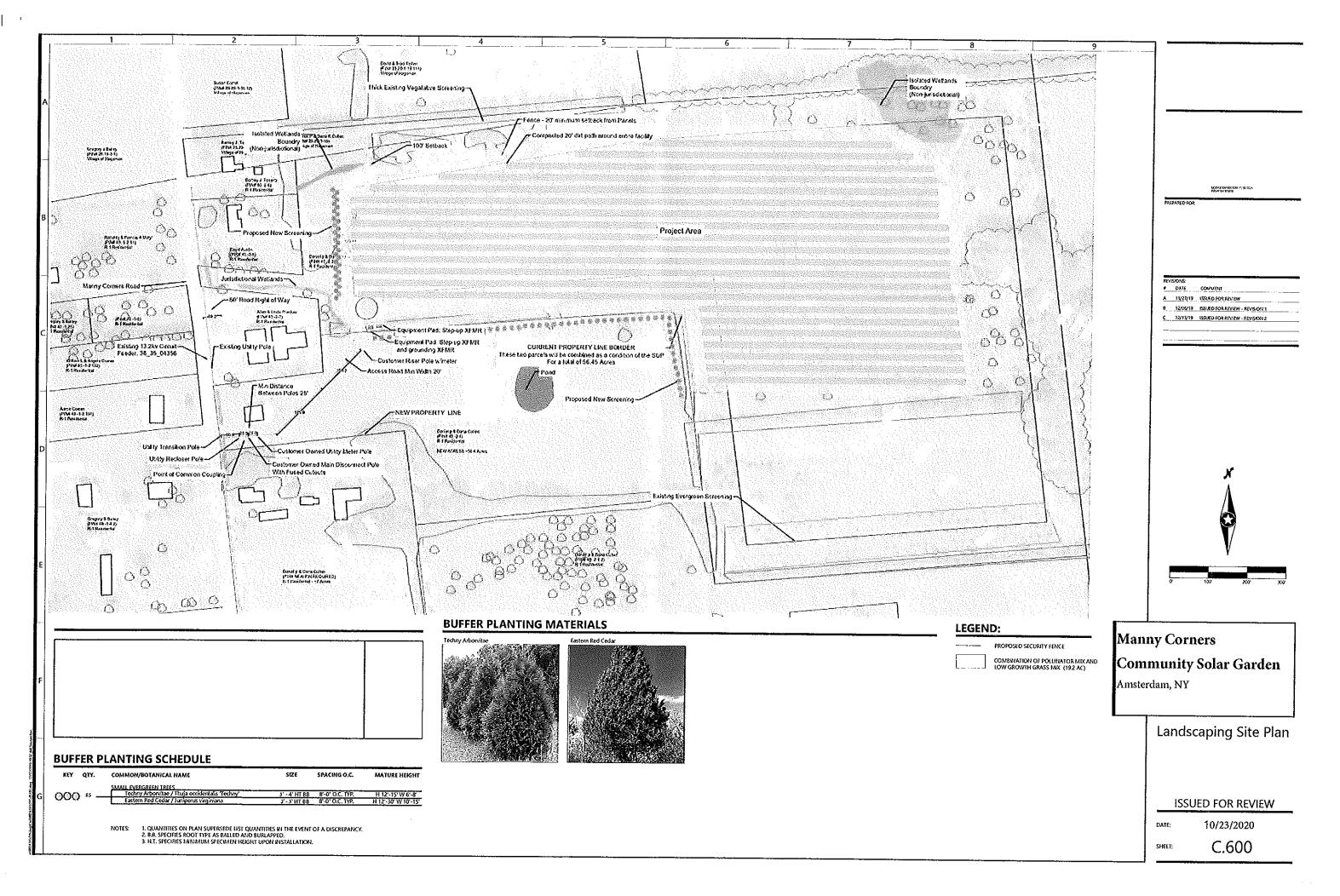
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#### POLLINATOR MIX

#### LOW GROWTH/LOW MAINTENANCE GRASS MIX

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SEED MIX TO BE PROVIDED BY LANDSCAPE CONTRACTOR FOR REVIEW.

SEED MIX TO BE PROVIDED BY LANDSCAPE CONTRACTOR FOR REVIEW.

SEEDING NOTES

<u>20165:</u>

- STEEDING TO BE COMPLETED USING A DRILL SEED METHOD WHERE FEASIBLE. WHERE DRILL SEEDING IS NOT FEASIBLE THE APPLICATION OF SEED VIA ALTERNATE METHODS BICLUDING BUT NOT UNITED TO, BROADCAST OR HYDROSEEDING.
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# **REFERRAL FORM** MONTGOMERY COUNTY PLANNING BOARD

Referral Number_____ assigned by the MCPB upon acceptance of referral for review

This Referral must be received SEVEN CALENDAR DAYS prior to the MCPB meeting date in order for it to be placed on the agenda.

TO:	Montgomery County Planning Board, Old County Courthouse, PO Box 1500, Fonda, New York 12068 Phone: 518-853-8334 Fax: 518-853-8336	FROM: Municipal Board: MOHAWK Referring Officer: EDWARD BISHOR Mail original resolution to: CMD15 hop & 616 yahoo, com						
1.	Applicant:2	. Site Address:						
3.	Tax Map Number(s):	4. Acres:						
5.	Is the site currently serviced by public water?	Yes No						
6.	On-site waste water treatment is currently provided by: Dublic Sewer or Septic System							
7.								
	Project Description:							
10.	MCPB Jurisdiction:							
X.	Text Adoption or Amendment 🛛 🕅 Site is	s located within 500' of:						
	🕅 a municipal boundary.							
	a State or County thruway/highway/roadwa	ay						
	an existing or proposed State or County pa	rk/recreation area						
	an existing or proposed County-owned stre							
	a State or County-owned parcel on which a							
		strict (Incl. Ag data Statement) (does not apply to area variances)						
11.	PUBLIC HEARING: Date: 1(14/202) T	Time: 7:10 Location: 2-4 PARK ST FOULD ANY						
		Cerred Action(s)						
12		dentify the referring municipal board if different from above.						
		Referring Board: TOWN BOARD						
		ning Ordinance Other						
	Zone Change	Referring Board:						
		Number of Acres:						
Purp	pose of the Zone Change:							
14.	Site Plan Project Site Review	Referring Board:						
Prop	posed Improvements:							
Wil	Il the proposed project require a variance?	Yes No Type: Area Use						
	Specify:							
	State of County DOT work permit needed? If							
	Specify:							



15. Special Permit	Referring Board:					
Section of local zoning code that requires a special permit for this use:						
Will the proposed project require a variance?	Yes No Type: Area Use					
16. Variance	Referring Board:					
Area Use						
Section(s) of local zoning code to which the variance is b	being sought:					
Describe how the proposed project varies from the above	code section:					
SEQ	R Determination					
Action: Fin	ding:					
Type I	Positive Declaration – Draft EIS					
Type II	Conditional Negative Declaration					
Unlisted Action	Negative Declaration PENDING					
Exempt	No Finding (Type II Only)					
SEQR determination made by (Lead Agency): 100	ON BOARD Date: 1/14/2021					

#### **REQUIRED MATERIAL**

#### Send 3 copies of a "Full Statement of the Proposed Action" which includes:

All materials required by and submitted to the referring body as an application

- If submitting site plans, please submit only 1 large set of plans, and 12 11x17 packets. •
- All material may be submitted digitally as well at http://www.mcbdc.org/planning-services/montgomery-county-. planning-board-referrals/

This referral, as required by GML §239 1 and m, includes complete information, and supporting materials to assist the Montgomery County Planning Board (MCPB) in its review. Recommendations by MCPB shall be made to the Referring Body within thirty days of receipt of the Full Statement.

EDWARD BISHOP, SUPERVISOR, 518 853 3031 EXTS Name, Title & Phone Number of Person Completing this Form

12

Transmittal Date



This side to be completed by Montgomery County Planning.

### REFERRAL FORM MONTGOMERY COUNTY PLANNING BOARD

ТО:

Receipt of 239-m referral is acknowledged on ______. Please be advised that the Montgomery County Planning Board has reviewed the proposal stated on the opposite side of this form on ______ and makes the following recommendation.

Approves
Approves (with Modification)
Disapproves:
No significant County-wide or inter-community input
Not subject to Planning Board review
Took no action

Section 239-m of the General Municipal Law requires that within thirty days after final action by the municipality is taken; a report of the final action shall be filed with the County Planning Board.

Date

Kenneth F. Rose, Director Montgomery County Dept. of Economic Development and Planning



# Short Environmental Assessment Form Part 1 - Project Information

#### Instructions for Completing

Part 1 – Project Information. The applicant or project sponsor is responsible for the completion of Part 1. Responses become part of the application for approval or funding, are subject to public review, and may be subject to further verification. Complete Part 1 based on information currently available. If additional research or investigation would be needed to fully respond to any item, please answer as thoroughly as possible based on current information.

Complete all items in Part 1. You may also provide any additional information which you believe will be needed by or useful to the lead agency; attach additional pages as necessary to supplement any item.

Part 1 – Project and Sponsor Information					
Name of Action or Project:					
Adoption of Local Laws					
Project Location (describe, and attach a location map):					
Town of Mohawk					
Brief Description of Proposed Action:					
Adoption of Local Laws amending existing Solar Law, Site Plan Law, Subdivision Law, and Property Maintenance Law. Adoption of Local Law creating Battery Storage Law.					
Name of Applicant or Sponsor:	Telephone: 518-853-3031				
Town of Mohawk	E-Mail:				
Address:					
2-4 Park Street					
City/PO:	State:	Zip Code:			
Fonda	NY	12068			
<ol> <li>Does the proposed action only involve the legislative adoption of a plan, loca administrative rule, or regulation?</li> </ol>		NO	YES		
If Yes, attach a narrative description of the intent of the proposed action and the environmental resources that may be affected in the municipality and proceed to Part 2. If no, continue to question 2.					
2. Does the proposed action require a permit, approval or funding from any other government Agency?			YES		
If Yes, list agency(s) name and permit or approval:					
<ul> <li>a. Total acreage of the site of the proposed action?</li> <li>b. Total acreage to be physically disturbed?</li> <li>c. Total acreage (project site and any contiguous properties) owned or controlled by the applicant or project sponsor?</li> </ul>	acres acres				
<ul> <li>4. Check all land uses that occur on, are adjoining or near the proposed action:</li> <li>Urban</li> <li>Rural (non-agriculture)</li> <li>Industrial</li> <li>Commercia</li> <li>Forest</li> <li>Agriculture</li> <li>Parkland</li> </ul>		ban)			



5. Is the proposed action,	NO	YES	N/A
a. A permitted use under the zoning regulations?			
b. Consistent with the adopted comprehensive plan?			
6. Is the proposed action consistent with the predominant character of the existing built or natural landscape?		NO	YES
7. Is the site of the proposed action located in, or does it adjoin, a state listed Critical Environmental Area?		NO	YES
If Yes, identify:			
8. a. Will the proposed action result in a substantial increase in traffic above present levels?		NO	YES
b. Are public transportation services available at or near the site of the proposed action?			
c. Are any pedestrian accommodations or bicycle routes available on or near the site of the proposed			
action?			
9. Does the proposed action meet or exceed the state energy code requirements?		NO	YES
If the proposed action will exceed requirements, describe design features and technologies:			
10. Will the proposed action connect to an existing public/private water supply?		NO	YES
If No, describe method for providing potable water:			
11. Will the memory dention and estimate within a citizing of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
11. Will the proposed action connect to existing wastewater utilities?		NO	YES
If No, describe method for providing wastewater treatment:			
12. a. Does the project site contain, or is it substantially contiguous to, a building, archaeological site, or distric	t	NO	YES
which is listed on the National or State Register of Historic Places, or that has been determined by the Commissioner of the NYS Office of Parks, Recreation and Historic Preservation to be eligible for listing on the			
State Register of Historic Places?			
b. Is the project site, or any portion of it, located in or adjacent to an area designated as sensitive for archaeological sites on the NY State Historic Preservation Office (SHPO) archaeological site inventory?			
13. a. Does any portion of the site of the proposed action, or lands adjoining the proposed action, contain		NO	YES
wetlands or other waterbodies regulated by a federal, state or local agency?			
b. Would the proposed action physically alter, or encroach into, any existing wetland or waterbody?			
If Yes, identify the wetland or waterbody and extent of alterations in square feet or acres:	_		



14. Identify the typical habitat types that occur on, or are likely to be found on the project site. Check all that apply:					
Shoreline Forest Agricultural/grasslands Early mid-successional					
Wetland Urban Suburban					
<ul> <li>15. Does the site of the proposed action contain any species of animal, or associated habitats, listed by the State or Federal government as threatened or endangered?</li> </ul>	NO	YES			
16. Is the project site located in the 100-year flood plan?					
To: Is the project site located in the Too-year hood plan?	NO	YES			
17. Will the proposed action create storm water discharge, either from point or non-point sources?	NO	YES			
If Yes,					
a. Will storm water discharges flow to adjacent properties?					
b. Will storm water discharges be directed to established conveyance systems (runoff and storm drains)? If Yes, briefly describe:					
18. Does the proposed action include construction or other activities that would result in the impoundment of water	NO	LIE C			
or other liquids (e.g., retention pond, waste lagoon, dam)?		YES			
If Yes, explain the purpose and size of the impoundment:					
19. Has the site of the proposed action or an adjoining property been the location of an active or closed solid waste management facility?	NO	YES			
If Yes, describe:					
20.Has the site of the proposed action or an adjoining property been the subject of remediation (ongoing or completed) for hazardous waste?	NO	YES			
If Yes, describe:		_			
I CERTIFY THAT THE INFORMATION PROVIDED ABOVE IS TRUE AND ACCURATE TO THE BEST OF MY KNOWLEDGE					
Applicant/sponson/name: Edward Bishop Date: 12/30/20					
Signature: // dward W/Sishop					



### Local law # 2021

#### SITE PLAN REVIEW

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#### GENERAL REFERENCES

#### **ARTICLE I** General Provisions

#### 1. Enactment and authorization.

The Town Board of the Town of Mohawk, Montgomery County, New York, does hereby ordain and enact the Town of Mohawk Site Plan Review Local Law pursuant to the authority and provisions of § 10 of the Municipal Home Rule Law and § 274-a of the Town Law.

#### 2. Title.

This chapter shall be known as the "Town of Mohawk Site Plan Review Local Law."

#### 3. Purpose.

A. Through site plan review, it is the intent of this chapter to promote the health, safety, and general welfare of the Town. A clean, wholesome, attractive environment is declared to be of importance to the health and safety of the inhabitants of the Town and, in addition, such an environment is deemed essential to the maintenance and continued development of the economy of the Town and the general welfare of its inhabitants.

B. It is further the intent of this chapter to ensure the optimum overall conservation, protection, preservation, development and use of the natural and man-related resources of the Town through review and approval of site plans.

#### 4. Planning Board authority to review site plans.

The Planning Board is hereby authorized to review and approve, approve with modifications, or disapprove site plans for land uses within the Town as hereinafter designated pursuant to and in accordance with the standards and procedures set forth in this chapter.

#### 5. Interpretation and application.

A. In their interpretation and application, the provisions of this chapter shall be held to be the minimum requirements. More stringent provisions may be required if it is demonstrated that different standards are necessary to promote the public health, safety and welfare.

B. Where the conditions imposed by any provisions of this chapter are either more restrictive or less restrictive than comparable conditions imposed by any other provisions of this chapter or of any other applicable law, ordinance, resolution, rule or regulation of any kind, the regulations which are more restrictive and impose higher standards or requirements shall govern.

#### ARTICLE II Definitions

#### 6. Definitions.

Unless otherwise expressly stated, the following terms shall, for the purpose of this chapter, have the meanings herein indicated:

ACCESSORY STRUCTURE- A structure, the use of which is customarily incidental and subordinate to the principal building, and is located on the same lot or premises as the principal building.

APPLICANT - The person(s), corporation, agency, or other legal entity responsible for submitting site plan applications for review by the Planning Board.

BUFFER AREA - An undeveloped part of a property or an entire property specifically intended to separate and thus minimize the effects of a land use activity on adjacent properties.

BUILDING - A structure designed to be used as a place of occupancy, business, storage, or shelter. The term "building" shall include the term "structure" as well as receiving and transmitting commercial, radio, television and other utility communication towers. Anything constructed or built, any edifice or building of any kind, which requires location on the ground or is attached to something having a location on the ground.

EASEMENT - The right to use the land of another, obtained through the purchase of the use rights from a landowner.

ENVIRONMENTAL ASSESSMENT FORM (EAF) - A form used to determine whether a project will have significant environmental impacts. Depending on the site's environmental features and the project's magnitude, either a short or long SEQR environmental assessment form will be completed.

ENVIRONMENTAL IMPACT STATEMENT (EIS) - A document prepared pursuant to SEQR, subsequent to a determination of potential adverse impacts that examines the existing and developed environment, and identifies and presents impacts, mitigation measures and alternatives.

GRADING - The leveling of land for site development purposes, including construction of roads, building construction, drainage areas, and parking.

LOT - A designated parcel, tract, or area of land established by a plat or otherwise as permitted by law and to be used, developed, or built upon as a unit.

OWNER/OPERATOR - Person, persons, corporation, etc., that owns and/or operates the business or facility.

PERSON - Any individual, group of individuals, partnership, firm, corporation, association, or other legal entity.

PHASED DEVELOPMENT - Development that occurs in defined stages.

ROAD - A public thoroughfare or right-of-way dedicated, deeded or condemned for use as such, which affords the principal means of access to abutting property.

ROAD, RIGHT-OF-WAY - An area defined by a boundary which provides for road construction, maintenance, improvement and/or widening.

SCREENING - Vegetation, fencing, or earthen materials used to block visibility toward and/or away from a site.

SETBACK - A minimum horizontal distance from a given point or line of reference, such as from a road edge or right-of-way, within which development is restricted.

SIGN - A name, identification, description, display or illustration, or any other visual display which is affixed to or painted or represented directly or indirectly upon a building, structure, or piece of land which directs attention to an object, product, place, activity, person, institution, organization or business. However, a sign shall not include any display of official court or public office notices nor any official traffic control devices nor shall it include the flag emblem or insignia of a nation, state, county, municipality, school, or religious group.

SITE PLAN - A rendering, drawing, or sketch prepared to specifications and containing necessary elements, as set forth in the applicable zoning ordinance or local law, which shows the arrangement, layout and design of the proposed use of a single parcel of land as shown on said plan.

SKETCH PLAN - Conceptual maps, renderings, and supportive data describing the project proposed by the applicant for initial review. May be used by the applicant as the basis for preparing the site plans for Planning Board review.

SKETCH PLAN CONFERENCE - Initial optional Planning Board review of the project proposal with the applicant. The sketch plan conference provides an opportunity for an applicant to learn from the Planning Board what the site plan submission requirements will be prior to submitting the site plan.

SPECIAL USE PERMIT- an authorization of a particular land use which is permitted in a zoning ordinance or local law, subject to requirements imposed by such zoning ordinance or local law to assure that the proposed use is in harmony with such zoning ordinance or local law and will not adversely affect the neighborhood if such requirements are met.

START OF CONSTRUCTION - The initiation of any physical alteration of the property, excluding planning and design, during any phase of a project and shall include land preparation, such as clearing, grading and filling; installation of roads, excavation for footings, foundations or the erection of temporary forms. Start of construction also includes any work for which a valid building permit is required.

STATE ENVIRONMENTAL QUALITY REVIEW (SEQR) - Review of an application according to the provisions of the State Environmental Quality Review Act, 6 NYCRR, Part 617 (Statutory Authority: Environmental Conservation Law, § 8-0113), which incorporates the consideration of environmental, social and economic factors into the planning, review and decision making processes of state, county and local government agencies.

#### ARTICLE III Applicability

#### 7. Uses requiring site plan approval,

A. Existing uses and structures. This chapter does not apply to uses and structures that are lawfully in existence as of the date this chapter becomes effective. Any use that would otherwise be subject to this chapter, which has been discontinued for a period of one year or more, shall be subject to review pursuant to the terms of this chapter before such use is resumed. Any use or structure shall be considered to be in existence, provided such use or structure has started construction prior to the effective date of this chapter and is fully constructed and completed within one year after the effective date of these regulations.

B. Uncertain applicability. Any person uncertain of the applicability of this chapter to a given land use activity may apply in writing to the Town of Mohawk Planning Board for a written jurisdictional determination.

#### ARTICLE IV Procedures

#### 8. Compliance with standards and procedures.

Any person, before undertaking any new land use activity at any location within the Town for which requires site plan approval, shall submit a site plan together with the appropriate supporting data to the Planning Board for review and approval in accordance with the standards and procedures set forth in this Local Law.

#### 9. Sketch plan.

The applicant is strongly encouraged to meet with the Planning Board prior to submission of a site plan application. This informal meeting is suggested to prevent unnecessary expenses to the applicant. At the conference, the applicant shall provide either a verbal or written statement and rough sketch describing what is proposed together with a USGS topographic map showing the location of the building site and its relationship to the surrounding area. The Board will review the sketch plan and list all necessary information needed by the applicant to complete the site plan approval.

#### 10. Application for site plan approval.

Each application for site plan approval shall be submitted to the Town Clerk 10 days prior to the Planning Board's regular scheduled meeting. The Town Clerk shall immediately notify the Planning Board that such application has been filed and the date thereof. Application shall include the application, signed by the current owner or representative thereof; seven copies of the site plan with the information outlined in Article IV, 11; an environmental assessment form, as required by the State Environmental Quality Review Act, and the appropriate fee.

#### 11. Site plan submission requirements.

A. All site plans shall be prepared by a registered architect, landscape architect, licensed land surveyor or professional engineer duly licensed by the State of New York, unless this requirement is waived by the Planning Board because of the simplicity of the proposal. Site plans shall be prepared at a scale of one inch equals 20 feet or less, on standard 24 inch by 36 inch sheets, with continuation on 8½ inch by 11 inch sheets as necessary for written information.

#### B. Items required for submission include:

(1) Title of site plan, boundaries, location maps showing site's location in the Town, date, north arrow and scale of the plan.

(2) Name and address of the owner of record, developer, and seal of the engineer, architect, surveyor or landscape architect.

(3) Name and address of all owners of record of abutting parcels and those within 500 feet of the property line.

(4) All existing lot lines, easements and rights-of-way. Include areas in acres or square feet, abutting land uses, and the location and size of structures within 500 feet of the site.

(5) The location of existing and proposed personal wireless telecommunication facilities structures (plan and elevation of facility) and improvements, including roads, buildings, tower, guy wire anchors, parking and landscaping and will include grading plans for new facilities and roads.

(6) The applicant shall submit documentation on the intent and capacity of use as well as justification for the height of any tower or antenna and justification for any clearing required.

C. An environmental assessment form (either short or long form, depending upon the nature of the proposal) shall be submitted with the site plan to insure compliance with the New York State Environmental Quality Review Act (6 NYCRR 617), to identify the potential environmental, social, and economic impacts of the project.

D. Agriculture data statement. The applicant must submit an agricultural data statement (ADS) if the proposed project occurs on property within an agricultural district containing a farm operation or on property with boundaries within 500 feet of a farm operation located within an agricultural district.

#### 12. Less intensive review.

The Planning Board may elect to conduct a less intensive review. The Planning Board must state its grounds for waiving certain submission requirements in writing and file such statement along with the site plan application and supporting documents.

#### 13. Acceptance of site plan application.

The Planning Board shall, within 30 days of a site plan application being filed, begin the review process. If the application is inadequate or lacking information as outlined in Article IV then the Planning Board may, in writing, request further information from the applicant. The time period in which the Planning Board must make a recommendation may be extended by written consent of the applicant and the Planning Board.

#### 14. Segmentation.

The site plan and associated maps shall include all proposed phases of development. Site plan approval shall be based on the total planned project in order to facilitate the assessment of all potential development impacts. The Planning Board shall consider applications incomplete where there is a reason to believe the application applies only to a segment of the total planned development. In such situations, the Board shall return such application to the applicant together with a letter stating the basis for its determination.

#### 15. Referrals to other agencies and boards.

A. Coordinated review. The Planning Board may refer the site plan for review and comment to local and county officials or their designated consultants, and to representatives of federal, state, and county agencies, including but not limited to the Soil and Water Conservation Service, the New York State Department of Transportation, the State Department of Environmental Conservation, and the state or county Department of Health, whichever has jurisdiction.

#### B. Required referral:

(1) Whenever any site plan involves real property in an area described in § 239-m of the General Municipal Law, said site plan shall be referred to the Montgomery County Planning Board for their review and approval pursuant to § 239-m of the General Municipal Law.

(2) The concurring vote of a majority plus one of the Town Planning Board shall be necessary to override County Planning Board recommendations of approval with modifications or disapproval. In the event that the County Planning Board recommends modifications or disapproval of a referred matter and the Town Planning Board acts to the contrary, the Town Planning Board shall file a report of its action with the County Planning Board within seven days after final action.

#### 16. Compliance with SEQR.

After the site plan has been accepted as complete, the applicant shall demonstrate compliance for any actions subject to SEQR prior to site plan approval. The Planning Board shall classify the application according to the New York State Environmental Quality Review Act, and review the environmental assessment form and decide:

A. If additional information is needed to render a determination of significance. The Planning Board will specify exactly what the applicant needs to supply; or

B. If the information is provided and the project is identified as having small to moderate impacts with little significance, then a negative declaration can be given; or

C. If an action has been identified as having a large and significant impact, then a positive declaration shall be determined and a full EIS will be provided.

#### 17. Public hearing on site plan.

The Planning Board may, at its discretion, hold a public hearing on the application. Said hearing shall be held within 62 days of receipt of the accepted site plan application. The Planning Board shall mail notice of the public hearing to the applicant at least 10 days before the public hearing and shall give public notice of said hearing in a newspaper of general circulation in the Town at least five days prior to the date of the hearing. If the application requires a public hearing and

§ 239-m review by the Montgomery County Planning Board, then the Board shall mail notice of the public hearing to the County Planning Board 10 days prior to said public hearing.

#### 18. Planning Board action on site plan.

A. The time limitations of this section shall not apply until the conclusion of the SEQR process as discussed in IV (16).

B. The Board shall make a decision on the application within 62 days after the public hearing. If no public hearing is held, a decision on the application shall be made within 62 days of the receipt of a complete site plan application, including receipt of any special use permit required. The time within which the Board must render a decision may be extended by mutual consent of the applicant and the Board. The Board shall render its decision to either approve, approve with modifications, or disapprove the site plan. The decision of the Board shall be filed in the office of the Town Clerk immediately and a copy mailed to the applicant.

(1) Approval. Upon approval of the site plan and payment by the applicant of all fees and reimbursable costs due to the Town, the Planning Board shall endorse its approval on a copy of the site plan and shall immediately file the site plan and a written statement of approval with the Town Clerk. A copy of the written statement of approval shall also be sent to the Building Inspector.

(2) Approval with modifications. The Planning Board may approve the site plan and require that specific modifications be made. A copy of the written statement of approval containing the modifications required by the Planning Board shall be mailed to the applicant by certified mail. Upon approval, and after payment by the applicant of all fees and reimbursable costs due to the Town, the Planning Board shall endorse its approval on a copy of the site plan and shall immediately file the site plan and a written statement of approval with modifications with the Town Clerk. A copy of the written statement of approval with modifications shall also be sent to the Building Inspector.

(3) Disapproval. Upon disapproval of the site plan, the decision of the Planning Board shall immediately be filed with the Town Clerk and a copy thereof mailed to the applicant by certified mall along with a letter stating the Planning Board's reasons for disapproval. A copy of the written statement of disapproval shall also be sent to the Building Inspector.

#### 19. Extension of time to render decision.

The time period which the Planning Board must render its decision on the site plan may be extended by mutual consent of the applicant and the Planning Board. Failure of the Planning Board to act within the time specified or agreed upon between the applicant and the Planning Board shall constitute Planning Board approval of the site plan as submitted or last amended.

#### ARTICLE V Administration and Enforcement

#### 20. Site plan compliance.

No permit or certificate of occupancy shall be issued by the Code Enforcement Officer, except upon the authorization by and in conformity with an approved site plan where required.

#### 22. Code Enforcement Officer.

A. The Town Board may alternatively appoint some other enforcement officer to conduct inspections and any other enforcement activities required by this chapter.

B. The Town Board may appoint a Code Enforcement Officer to carry out the duties assigned by this chapter. If appointed, the Code Enforcement Officer shall be responsible for the overall inspection of site improvements, including coordination with the Planning Board and other officials and agencies, as appropriate.

#### 23. Amendments.

The Town Board may, on its own, on petition, or on recommendation of the Planning Board, after public notice and hearing, amend this chapter pursuant to all applicable requirements of law.

#### 24. Penalties for offenses.

A. Any person, firm, or corporation who commits an offense against, disobeys, neglects, or refuses to comply with or resists the enforcement of any of the provisions of this Law shall, upon conviction, be deemed guilty of a violation, punishable by a fine of not more than 1% of total project cost, or by imprisonment not exceeding 20 days, or both such fine and imprisonment. Each week an offense is continued shall be deemed a separate violation of this chapter.

B. In addition to the penalties provided above, the Code Enforcement Officer, or Town Board, may also maintain an action or proceeding in the name of the Town in a court of competent jurisdiction to compel compliance with or to restrain by injunction the violation of this chapter.

#### 25. Waivers.

The Planning Board may waive, subject to appropriate conditions, the provisions of any or all standards set forth if in the special circumstances of a particular application such standards are not in the interest of the public health, safety, and general welfare or strict adherence to such standards would cause unnecessary hardships for the applicant without achieving public benefit objectives. The Planning Board must state its reasons for granting any waivers in writing and file the same along with the site plan application and supporting documents.

## 26. Effective date.

This law shall take effect after its adoption upon filing with New York State.