



N64W23760 Main Street  
Sussex, Wisconsin 53089  
Phone (262) 246-5200  
FAX (262) 246-5222  
Email: [info@villagesussex.org](mailto:info@villagesussex.org)  
Website: [www.villagesussex.org](http://www.villagesussex.org)

AGENDA  
VILLAGE OF SUSSEX  
PLAN COMMISSION MEETING  
6:30 PM TUESDAY, JANUARY 16, 2024  
SUSSEX CIVIC CENTER – BOARD ROOM 2<sup>nd</sup> FLOOR  
N64W23760 MAIN STREET

Pursuant to the requirements of Section 19.84, Wis. Stats., notice is hereby given of a meeting of the Sussex Plan Commission, at which a quorum of the Village Board may attend. If a Quorum is present the Chairperson shall state, "Please let the minutes reflect that a quorum of the Village Board is present and may be making comments during public comment or if the rules are suspended to allow so.)

1. Roll call.
2. Consideration and possible action on the minutes of the Plan Commission meeting of December 19, 2023.
3. Consideration and possible action on Permitted Uses and Plans.
4. Conditional Use Public Hearing(s) and consideration and possible action on Conditional Use Permits and Plans on the following items:
  - a. Reconvene the Public Hearing and discussion and possible action on a Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane.
  - b. Discussion and possible action on a Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane.
  - c. Reconvene the Public Hearing and discussion and possible action on a Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive.
  - d. Discussion and possible action on a Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive.
5. Consideration and possible action on CSM's, Plats, Zoning and Planning Items.
6. Other items for future discussion.
7. Adjournment.

Anthony LeDonne  
Chairperson

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Jeremy J. Smith  
Village Administrator

Please note that, upon reasonable notice, efforts will be made to accommodate the needs of disabled individuals through appropriate aids and services. For additional information or to request this service, contact the Village Clerk at 246-5200.

**DISCLAIMER-THE FOLLOWING ARE DRAFT MINUTES FROM  
PLAN COMMISSION AND ARE  
SUBJECT TO CHANGE UPON APPROVAL OF THE COMMISSION  
VILLAGE OF SUSSEX  
PLAN COMMISSION  
6:30PM TUESDAY, DECEMBER 19, 2023  
SUSSEX CIVIC CENTER – BOARD ROOM 2<sup>ND</sup> FLOOR  
N64W23760 MAIN STREET**

The meeting was called to order by Village President Anthony LeDonne at 6:30pm at the Sussex Civic Center – Board Room 2<sup>nd</sup> Floor N64W23760 Main Street, Sussex, WI.

Members present: Commissioners Jim Muckerheide (arrived at 7:47pm), Roger Johnson, Debbie Anderson, Trustee Greg Zoellick, and Village President Anthony LeDonne

Members excused: Mike Schulist and Mike Knapp

Others present: Village Administrator Jeremy Smith, Community Development Director Gabe Gilbertson, Assistant Village Administrator Kelsey McElroy-Anderson, Village Attorney John Macy, Clerk/Treasurer Jennifer Moore, applicants, and members of the public.

A quorum of the Village Board was not present at the meeting.

**Consideration and possible action on the minutes on the Plan Commission meeting of November 21, 2023.**

A motion by Johnson, seconded by Zoellick to approve the minutes of the Plan Commission meeting of November 21, 2023 as presented. Motion carried 4-0

**Consideration and possible action on a Plan of Operation for the Bug Line Bazaar located at N63W23580 Silver Spring Road.**

A motion by Johnson, seconded by Anderson to approve the Plan of Operation for the Bug Line Bazaar located at N63W23580 Silver Spring Road and a reduction in parking stalls from the required 7 stalls to 2 stalls due to available street parking and store's accessibility to the Bug Line Trail, subject to the standard conditions of Exhibit A.

Motion carried 4-0

**Public Hearing and discussion and possible action on a Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane.**

The petitioner was present to answer questions. Pam Meyer, N62W23727 Hickory, is concerned what will happen if the house is sold. Staff noted that the Conditional Use Permit would go with the land if it is sold. There cannot be a renter either short term or long term in the accessory apartment.

No additional parking spaces are required and a sidewalk from the driveway to the apartment exterior door is planned for the future.



Motion by LeDonne, seconded by Zoellick to direct staff to prepare the Conditional Use Order and to reconvene the public hearing on the Conditional Use Order at the January 16, 2024 Plan Commission meeting.

Motion carried 5-0

**Public Hearing and discussion and possible action on a Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive.**

The Applicant was present to answer questions. There were no public comments.

A motion by LeDonne, seconded by Anderson to direct staff prepare the Conditional Use Order and to reconvene the public hearing on the Conditional Use Order at the January 16, 2024 Plan Commission meeting.

Motion carried 5-0

**Reconvene a Public Hearing on a Legal Non-Conforming Conditional Use Permit for Mike Dupont for a self-storage building and outdoor storage in the B-3 Highway Business Zoning District located at W240N6689 Maple Ave.**

Roger Johnson recused himself from this agenda item.

The applicant was present to answer questions. There were no public comments.

The applicant stated he agrees to all terms of the Conditional Use Permit.

Motion by LeDonne, seconded by Zoellick to close the Public Hearing.

Motion carried 4-0

**Discussion and possible action on a Legal Non-Conforming Conditional Use Permit for Mike Dupont for a self-storage building and outdoor storage in the B-3 Highway Business Zoning District located at W240N6689 Maple Avenue.**

Roger Johnson recused himself from this agenda item.

Motion by LeDonne, seconded by Zoellick to approve the Legal Non-Conforming Conditional Use Permit for Mike Dupont for a self-storage building and outdoor storage in the B-3 Highway Business Zoning District located at W240N6689 Maple Avenue subject to the standard conditions of Exhibit A.

Motion carried 4-0

**Other Items for Future Discussion**

None

**Adjournment**

A motion by LeDonne, seconded by Muckerheide to adjourn the meeting at 7:13p.m.

Motion carried 5-0

Respectfully submitted,  
Jennifer Moore  
Clerk/Treasurer



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## MEMORANDUM

TO: Plan Commission  
FROM: Gabe Gilbertson, Community Development Director  
RE: Plan Commission meeting of January 16, 2024  
DATE: January 11, 2024

All Code Sections in this memo refer to the March 25, 2014 Sussex Municipal Code Chapter 17 with subsequent amendments thereto.

02. **Minutes of the Plan Commission meeting of December 19, 2023.**
03. **Consideration and possible action on Permitted Uses and Site Plans.**
04. **Conditional Use Public Hearing(s) and consideration and possible action on Conditional Use Permits and Plans.**
  - A. **Reconvene the Public hearing and discussion and possible action on a Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane.**

The subject property is zoned RS-4 Single Family Residential. The property owners received Village approval for a home addition that could function as a separate living space for an additional family member. At the time of issuing the permit, the space was only accessible through the existing home and was not considered an Accessory Apartment. The property owners are now applying for a conditional use permit to install a doorway on the addition that would allow for the space to function as a separate residence from the existing home.

The Petitioner will need to prove the standards/conditions attached to this memo during the Public Hearing process. The Plan Commission may add additional conditions for the Petitioner to meet in the Conditional Use. The shaded areas (if any) reflect items in the code that are unlikely to be meritorious to the application or are administrative in nature.

### **Policy Question:**

1. Are there any concerns with the Conditional Use or Plan of Operation?
2. Are there any concerns from the public hearing you want added in the CU document?

3. The Code requires the following for Accessory Apartments and the conditions will be applied to the Conditional Use Permit:
  - a. The principle dwelling has a minimum living area of 1,000 square feet, excluding the accessory dwelling unit.
  - b. The principle dwelling unit is owner occupied.
  - c. There may be only one accessory apartment per principle dwelling unit.
  - d. The accessory apartment shall have a minimum living area of 600 square feet and no more than one bedroom.
  - e. The accessory apartment shall be occupied by a person related to the owner of the principle dwelling unit by blood, marriage or adoption.
4. To help ensure the conditions of approval regarding occupancy of the accessory apartment are followed, the Board may consider having the Conditional Use Permit or a summary of the Conditional Use Permit recorded with the Register of Deeds or have a Deed Restriction recorded with the Register of Deeds.

**Action Items:**

1. Close the public hearing.

**Staff Recommendation:** Staff recommends the Plan Commission close the public hearing.

**B. Discussion and possible action on a Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane.**

Staff has prepared a conditional use document for consideration at this meeting. The Plan Commission has heard testimony on the application for the outdoor storage.

**Policy Questions:**

Has the Petitioner provided substantial evidence proving they meet the standards/regulations of the Ordinance, the conditions and standards of the Conditional Use Permit, and the other conditions as set forth by the Plan Commission?

If No, the deficiency will need to be detailed.

Has the Petitioner provided substantial evidence with regards to the following Standards/Regulations?

**The Application is complete and consistent with 17.0502: Yes or No**

**The use(s) and plans are compliant with 17.0503 (Review of CU's): Yes or No**

**The use(s) and plans are compliant with 17.0200 (General Conditions): Yes or No**

**The uses(s) and plans are compliant with 17.0411 RS-4 Single Family Residential District: Yes or No**

**The uses(s) and plans are compliant with 17.1000 (Site Plan Review): Yes or No**

**Has the Petitioner provided substantial evidence and adequately addressed the findings of the impact report per 17.0506.A. Yes or No**

Has the Petitioner provided substantial evidence with regards to the Conditional Use Permit as follows:

**A.3.A. Site Plan Standards compliance:** Yes or No

**A.3.B. Plan of Operation compliance:** Yes or No

**A.3.C. Various Plan(s) compliance:** Yes or No

**A.4.-16. CU condition compliance:** Yes or No

**B-L. Administrative CU Condition compliance:** Yes or No

**Action Items:**

1. Act on the Conditional Use.

**Staff Recommendation:** Staff recommends the Plan Commission approve the Conditional Use Permit for an Accessory Apartment according to Section 17.0506(B)(5) located at N61W23728 Sumac Lane, and subject to the standard conditions of Exhibit A and the following conditions:

1. The principle dwelling has a minimum living area of 1,000 square feet, excluding the accessory dwelling unit.
2. The principle dwelling unit is owner occupied.
3. There may be only one accessory apartment per principle dwelling unit.
4. The accessory apartment shall have a minimum living area of 600 square feet and no more than one bedroom.
5. The accessory apartment shall be occupied by a person related to the owner of the principle dwelling unit by blood, marriage or adoption.

**C. Reconvene a Public hearing and discussion and possible action on a Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive.**

The subject property is zoned I-1 Institutional and is owned by the Village and is where the Executive Drive water tower is located. Verizon is proposing to install a new wireless communication facility at the subject property and requires a conditional use permit under Section 17.0509(C). The proposed facility consists of new antenna mounted on top of the water tower and a 675 square foot equipment building for Verizon's ground equipment and two additional rooms for other carriers. A fenced in 20 foot by 22.5 foot area on the south side of the equipment building will house the emergency generator and a meter rack.

The Petitioner will need to prove the standards/conditions attached to this memo during the Public Hearing process. The Plan Commission may add additional conditions for the Petitioner to meet in the Conditional Use. The shaded areas (if any) reflect items in the code that are unlikely to be meritorious to the application or are administrative in nature.

**Policy Question:**

1. Are there any concerns with the Conditional Use or Plan of Operation?
  - a. The Plan Commission raised concerns regarding the visibility of the equipment building from WI-164. The applicant provided visuals from WI-164 to demonstrate what the site will look like once the new equipment building is constructed and landscaping installed.
2. Are there any concerns from the public hearing you want added in the CU document?

**Action Items:**

1. Close the public hearing.

**Staff Recommendation:** Staff recommends the Plan Commission close the public hearing.

**D. Discussion and possible action on a Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive.**

Staff has prepared a conditional use document for consideration at this meeting. The Plan Commission has heard testimony on the application for the outdoor storage.

**Policy Questions:**

Has the Petitioner provided substantial evidence proving they meet the standards/regulations of the Ordinance, the conditions and standards of the Conditional Use Permit, and the other conditions as set forth by the Plan Commission?

If No, the deficiency will need to be detailed.

Has the Petitioner provided substantial evidence with regards to the following Standards/Regulations?

**The Application is complete and consistent with 17.0502: Yes or No**

**The use(s) and plans are compliant with 17.0503 (Review of CU's): Yes or No**

**The use(s) and plans are compliant with 17.0200 (General Conditions): Yes or No**

**The uses(s) and plans are compliant with 17.0424 Highway Business District: Yes or No**

**The uses(s) and plans are compliant with 17.1000 (Site Plan Review): Yes or No**

**Has the Petitioner provided substantial evidence and adequately addressed the findings of the impact report per 17.0506.A. Yes or No**

Has the Petitioner provided substantial evidence with regards to the Conditional Use Permit as follows:

**A.3.A. Site Plan Standards compliance:** Yes or No

**A.3.B. Plan of Operation compliance:** Yes or No

**A.3.C. Various Plan(s) compliance:** Yes or No

**A.4.-16. CU condition compliance:** Yes or No

**B-L. Administrative CU Condition compliance:** Yes or No

**Action Items:**

1. Act on the Conditional Use.

**Staff Recommendation:** Staff recommends the Plan Commission approve the Conditional Use Permit for a new wireless communications facility located at N249W5889 Executive Drive, and subject to the standard conditions of Exhibit A and the following condition:

1. Approval of a License Agreement between the Village and Verizon Wireless for a new wireless communications facility at the subject property.

**05. Consideration and possible action on CSM's, Plats, Zoning and Planning Items.**

**06. Other Items for future discussion.**

**07. Adjournment.**



Project Name \_\_\_\_\_  
Tax Key # SUXVOZ46118

texted to  
Greg Cops  
10/17/23

VILLAGE OF SUSSEX  
PLAN OF OPERATION  
PROCEDURE LIST

Pre-application conference must be arranged with Gabe Gilbertson, Community Development Director. Please contact us at 262-246-5215 prior to submitting your application.

Complete the following: Plan of Operation, Service Reimbursement Agreement, Emergency Contact and Wastewater Discharge Permit.

Submit the completed forms and the required fee by the last business day of the month for consideration for the next Plan Commission Agenda. Please note that submitting by the deadline does not guarantee placement on the Plan Commission Agenda. Completed forms can be emailed to [ggilbertson@villagesussex.org](mailto:ggilbertson@villagesussex.org).

The following fees are required at the time of submittal.

<input type="checkbox"/> Plan of Operation fee	\$175.00
<input checked="" type="checkbox"/> Conditional Use fee (if necessary)	\$210.00
<input type="checkbox"/> Pre Occupancy inspection fee	\$100.00

Please make check payable to: Village of Sussex (fees are non refundable)

Notes: Dedicated exterior door access to in-law suite - residential.

Additional fees are required for building permits, review fees, or other items depending upon the nature of your request.

Contact Name for meetings: Greg Cops Phone # 920-903-0919

E-mail: greg.cops@linkedlivinghomes.com

For office use only:

Met with staff on:	_____
Paid fees on:	_____
To be on the Plan Commission Agenda for:	_____
Original forms to the following:	_____
Plan of Operation to Jeremy	_____
Service reimbursement	_____
Emergency Contact to Sheriff Dept	_____
Wastewater Permit to WWTP	_____
Any outstanding fees owed on the property?	_____



# PLAN OF OPERATION

To be used for a business with changes or new business in an existing building.

Is this request to be considered for a Conditional Use? yes If yes, is this a new CU? yes

(Conditional Use Permits require a Public Hearing)

OR an amendment to a CU? \_\_\_\_\_

Tax Key # SUXV0246118

Zoning \_\_\_\_\_

Address of Tenant Space: N61 W23728 Sumac Lane, Sussex, WI

1. Name of Business:

Linked Living Homes / Seniors First Remodeling

Business

925 N Perkins St. Appleton 920-903-0919

Address

City, State, Zip

Phone #

Fax #

greg.cops@linkedlivinghomes.com

Email address

2. Business owner contact information:

Contact

Greg Cops

Address

City, State, Zip

Phone #

920-903-0919

Fax #

Email address

3. Building/Land owner contact information:

Contact

Nancy Gin Shaffer, aka Nancy Gin

Address

City, State, Zip

Phone #

as above 262-389-1401

Fax #

Email address

4. Number of Employees/Shifts:

Employees

Shifts

5. Days of Operation:

Put an X in box that applies  
Hours  
Open for business

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday



6. Is this an extension of an existing operation? \_\_\_\_\_
7. On a separate sheet of paper explain your business use and/or the change to your business. Attach a list of all items to be sold, produced or stored on the premises.
8. Is a liquor license or any other special license to be obtained from the Village Board or State Licensing Agencies? \_\_\_\_\_ Do you need an Outdoor Establishment Permit? \_\_\_\_\_  
If yes, explain: \_\_\_\_\_  
If yes, please obtain and complete permit application
9. If your proposed operation will utilize a liquor license, what types of entertainment are you proposing? \_\_\_\_\_
10. Do you feel there will be any problems such as odor, smoke or noise resulting from this operation? \_\_\_\_\_ If yes, explain: \_\_\_\_\_
11. Dimension of area to be occupied \_\_\_\_\_ Total square footage \_\_\_\_\_  
If applicable list square footage according to 1<sup>st</sup> floor \_\_\_\_\_ 2<sup>nd</sup> floor \_\_\_\_\_

Please provide a copy of the site plan showing parking and layout of the building and if a multi tenant building, label the space which will be occupied by your business

12. Parking:  
Total Number of Parking Spaces \_\_\_\_\_ Number of spaces needed per code \_\_\_\_\_  
Number of spaces allocated for employee parking \_\_\_\_\_  
Dimensions of parking lot \_\_\_\_\_ Is parking lot paved? \_\_\_\_\_

13. Signage: What type of signage are you proposing for your business? \_\_\_\_\_

If applicable, complete a Sign Permit application and submit to the Building Inspection Dept. Please refer to Chapter 17 (0806)

I have reviewed a copy of the Zoning Ordinance in the Village of Sussex and hereby agree to abide by the same, as well as any and all terms and conditions of any permit issued pursuant to this application.

I do swear to or affirm that all statements contained herein are true and correct to the best of our knowledge.

Greg Lops  
Name  
Owner Linked Living Homes  
Title or Position

10/9/23  
Date

I am aware and approve of the business to be operating in the building owned by Nancy Gin and Roger Bruss  
Nancy Gin  
Name  
Owner  
Title or Position

10/15/23  
Date



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**VILLAGE OF SUSSEX  
PROFESSIONAL SERVICES REIMBURSEMENT NOTICE**

Pursuant to the Village of Sussex Ordinance No. 3.11, the Village of Sussex Village Board has determined that whenever the services of the Village Attorney, Village Engineer, Village Planner, or any other of the Village's professional staff results in a charge to the Village for that professional's time and services and such service is not a service supplied to the Village as a whole, the Village Clerk shall charge that service for the fees incurred by the Village to the property owner incurring those fees even if the request is not approved. Also, be advised that pursuant to said Village of Sussex Ordinances, certain other fees, costs, and charges are the responsibility of the property owner even if the request is not approved. Imposition of any fees, costs or charges, however, is subjected to the property owner's appeal rights as described in said Village of Sussex Ordinances.

I, the undersigned, have been advised that, pursuant to said Village of Sussex Ordinances, if the Village Attorney, Village Engineer, Village Planner or any other Village professional provides services to the Village because of my activities, whether at my request or at the request of the Village, I shall be responsible for the fees incurred by the Village even if the request is not approved. In addition, I have been advised that pursuant to said Village of Sussex Ordinances, certain other fees, costs, and charges are my responsibility even if the request is not approved. By signing this document however, I am not waiving my appeal rights that are described in said Village of Sussex Ordinances.

**PLEASE PRINT LEGIBLY**

Name and Mailing Address of the Property Owner and or Authorized Agent for Invoices:

Linked Living Homes - Greg Lops  
925 N Perkins St. Appleton, WI

Business Name: \_\_\_\_\_

Name of Owner and Address of the Property involved in the Request (if different from above):

\_\_\_\_\_  
\_\_\_\_\_

Tax Key No. of the Property involved in the Request: SUXV 0246118

Nancy A. Lops  
Signature of Property Owner and or Authorized Agent

10/15/23  
Date

Signature of Village Official Accepting Form

Date

A copy of this completed form shall be provided to the Village Clerk for billing purposes.



## WASTEWATER DISCHARGE PERMIT APPLICATION

Business Name: \_\_\_\_\_

Address: \_\_\_\_\_

Owner/Operator: \_\_\_\_\_

Standard Industrial Classification #: \_\_\_\_\_

How many people do you employ? \_\_\_\_\_

What are your businesses hours of work? \_\_\_\_\_

Who is responsible for water quality? ( List job titles) \_\_\_\_\_

Time and Duration of Discharge: \_\_\_\_\_

Average and Peak Wastewater Flow Rates(Include any daily, monthly or seasonal variations): \_\_\_\_\_

Please describe the activities, facilities, and plant processes on the premises including all materials and types of materials which are or could be discharged.

Please list each product your business produces. (Include type, amount and rate of production): \_\_\_\_\_

What are the constituents and characteristics of your wastewater? \_\_\_\_\_

New construction: attach site plans, floor plans, mechanical and plumbing plans and details to show all sewers and appurtenances by size, location and elevation.

[Print Form](#)

[Clear Form](#)



Village of Sussex Fire Department  
N63 W24335 Main Street  
Sussex, Wisconsin 53089

Fire Station - P.H.O.N.T.  
262-246-5197  
Fire Station - F.L.A.  
262-246-5196

Waukesha County Sheriff - Sussex Office

Emergency Contact Form to be completed with Plan of Operation form.

Business Name: na

Business Address: \_\_\_\_\_

Business Phone #: \_\_\_\_\_

Business \_\_\_\_\_

Email: \_\_\_\_\_

Business Emergency Contacts

Name and Phone #: \_\_\_\_\_

Name and Phone #: \_\_\_\_\_

Name and Phone #: \_\_\_\_\_

Building Owner Name: \_\_\_\_\_

Building Owner Email: \_\_\_\_\_

Building Owner Emergency Contacts

Name and Phone #: \_\_\_\_\_

Name and Phone #: \_\_\_\_\_

Knox Box (if applies) Have locks been changed and new key provided to Fire Department? Yes No





25' Rear setback

Gin 10' side setback

Mother-In-Law Suite  
680 sqft

20'

34'

13'

12'

N61W23T28 Sumac Ln

30' front setback

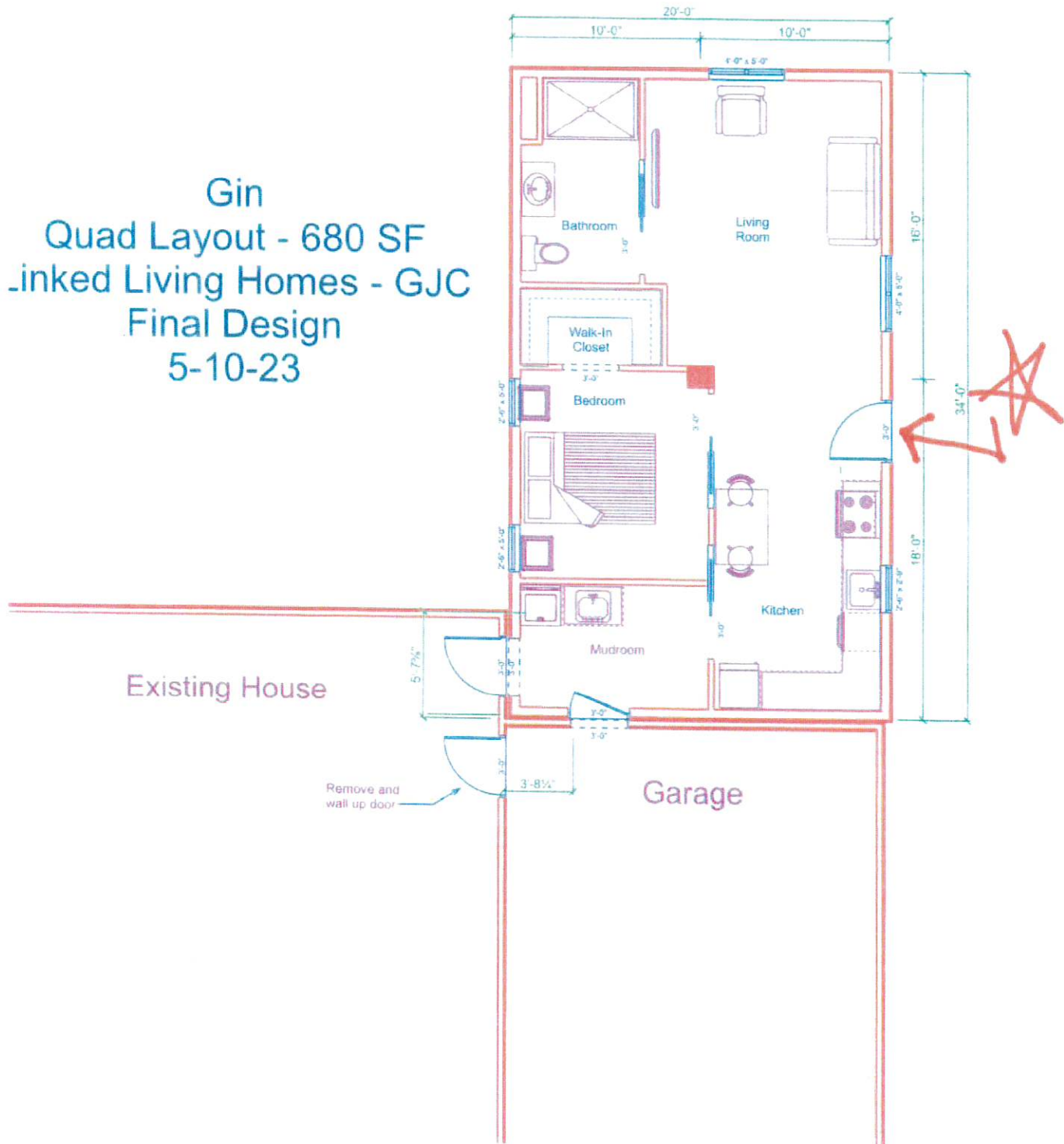
13

80.00'

12

80.00'

Gin  
 Quad Layout - 680 SF  
 Linked Living Homes - GJC  
 Final Design  
 5-10-23



## **Impact Report - Conditional Use Permit - N61W23728 Sumac Ln - Gin**

A conditional use permit is being applied for in order to add an exterior door the the living space behind the garage located at N61W23728 Sumac Ln. Please see impact categories and comments below. The addition of this door will have little to no impact to the neighborhood/village.

### **Impact to:**

- Neighboring properties - Neighbors to the east would periodically see residents walking to their new front door on the east side of the living space.
- Traffic - No impact - not changing the number of residents at the property
- Parking - No impact - not changing the number of residents at the property
- Noise - No impact - not changing the number of residents at the property
- Odor - No impact - no odor producing work
- Safety - No impact - no safety concerns added
- Crime - No impact - no crime related changes
- Hours of operation - No impact - not changing the number of residents at the property
- Health and sanitation - No impact - no health or sanitation related changes
- Property maintenance - minimal impact - New sidewalk will require shoveling by residents

### **The Conditional Use Standards:**

17.0502 APPLICATION. Applications for conditional use permits shall be made to the Village on forms furnished by the Village and shall include Sections A, E, F and G. and may include any or all of Sections B, C, and D. as determined by the Administrator:

A. Names and addresses of the applicant, owner of the site, or other appropriate entities or persons implementing the project as required by the Administrator.

B. Description of the subject site by lot, block and recorded subdivision or by metes and bounds; address of the subject site; type of structure; proposed operation or use of the structure or site; number of employees; and the zoning district within which the subject site is located. For floodland conditional uses, such description shall also include information that is necessary for the Plan Commission to determine whether the proposed development will hamper flood flows, impair floodplain storage capacity, or cause danger to human or animal life. This additional information may include plans, certified by a registered professional engineer or land survey or, showing elevations or contours of the ground; fill or storage elevations; first floor elevations of structures; size, location and spatial arrangement of all existing and proposed structures on the site; location and elevation of streets, water supply, and sanitary facilities; photographs showing existing land uses and vegetation upstream and downstream; soil types; and other pertinent information.

C. A topographic map, drawn to a scale of not less than 200' to 1" showing the land in question, its legal description and location; location and use of existing buildings; sanitary systems and private water supplies on such land; the high water elevation of any navigable water within 100' of the land in question; and the proposed location and use of any buildings, sanitary systems and wells on such land and within 100' of such land in question.

D. Additional information as may be required by the Plan Commission or Administrator. **{This may come out during the Public Hearing.}**

E. A fee, as may be established and periodically modified by resolution of the Village Board, shall accompany each application. Such fee shall be paid by cash, check or money order to the Village. Costs incurred by the Village in obtaining legal, planning, engineering and other technical and professional advice in connection with the review of the conditional use and preparation of conditions to be imposed shall be charged to the applicant.

F. Where necessary to comply with certain Wisconsin Statutes, an application will be submitted at the appropriate time to the Department of Natural Resources. The site plan and plan of operation information sheet and plan of operation approval form furnished by the Village shall be submitted prior to scheduling before the Plan Commission.

17.0503 REVIEW AND APPROVAL. The Plan Commission shall review the site, existing and proposed structures, architectural plans, neighboring uses, parking areas, driveway locations, highway access, traffic generation and circulation, drainage, sewerage and water systems, and the proposed operation.

A. Upon receipt of the application, foregoing data and fees, the Plan Commission shall establish a date for a public hearing and shall public notice of the hearing once each week for two consecutive weeks in the official newspaper. Notice of the public hearing shall be given to the owners of all lands within 200' of any part of the land included in such conditional use by mail at least 10 days before such public hearing. A copy of the notice of public hearing along with pertinent information



relative to the specific nature of the matter (copy of application and map) shall be transmitted without delay to the Plan Commission. Compliance with this subparagraph shall not be a condition precedent to proper legal notice and no hearing or action taken thereon shall be deemed invalid or illegal because of any failure to mail the notices provided for in this subparagraph.

B. The procedure for public hearing before the Plan Commission shall be as follows: 1. Any person may appear in person, by agent, or attorney. 2. The Plan Commission shall afford the applicant and each interested person opportunity to present evidence to rebut or offer countervailing evidence. 3. The Plan Commission shall take minutes of the proceedings and shall mark and preserve all exhibits. The Plan Commission shall, when requested by an applicant or a petitioner objecting to the action, cause the proceedings to be taken by a stenographer or by a recording device provided that the applicant or the petitioner objecting making the request pays any and all costs for the stenographer or recording device and any copies of the proceedings. If requested by both the applicant and the petitioner the costs shall be split evenly unless otherwise agreed to by the parties.

C. Within 95 days of the completion of the hearing conducted by the Plan Commission, the Plan Commission shall render its written determination stating the reasons therefore. If additional time is necessary beyond the 95 days referred to above, such time may be extended with the consent of the petitioner. Failure of the Plan Commission to render a decision as set forth shall constitute approval of the permit. The factual basis of any decision shall be solely the evidence presented at the hearing. The Village Clerk shall mail a copy of the determination to the applicant.

D. Conditions such as landscaping, architectural design, type of construction, flood proofing, anchoring of structures, construction commencement and completion dates, sureties, lighting, fencing, planting screens, operational control, hours of operation, improved traffic circulation, deed restrictions, highway access restrictions, increased yards, or parking requirements may be required by the Plan Commission upon its finding that these are necessary to fulfill the purpose and intent of this ordinance.

E. Compliance with all other provisions of this ordinance, such as lot width and area, yards, height, parking, loading, traffic, and highway access shall be required of all conditional uses unless otherwise authorized to be modified by a conditional use. Variances shall only be granted as provided in Section 17.1200 of this ordinance.

F. Changes in use subsequent to the initial issuance of a conditional use permit shall result in a need to change the initial conditions and shall require an amendment to the conditional use permit. Enlargement of a conditional use shall not be considered an amendment. If any holder of a conditional use permit wishes to extend or alter the terms of such permit, the permit holder must apply for an amendment to the conditional use permit through the procedure of application for conditional use permits detailed herein. The process for amending a permit shall generally follow the procedures for granting a permit as set forth in Sections 17.0501, 17.0502 and 17.0503, and shall require the filing of an application and a hearing as provided above.

## **The Zoning District Standards Section 17.0411 Rs-4 SINGLE-FAMILY RESIDENTIAL DISTRICT**

**17.0411**

**Rs-4 SINGLE-FAMILY RESIDENTIAL DISTRICT**

The Rs-4 Residential District is intended to accommodate existing single-family residential development where densities may reach 6.1 dwelling units per net acre in order that single-family dwellings in this district shall not be rendered nonconforming uses. This district is intended to accommodate existing development, and accordingly, no undeveloped land shall be placed in the district.

A. Permitted Uses

1. Single-family dwellings (with attached or detached garages).
2. Community living arrangements and community-based residential facilities which have a capacity of eight (8) or fewer persons, subject to the limitations set forth in Section 62.23(7)(I) of the Wisconsin Statutes.
3. Family day care home.
4. Foster family home.

B. Permitted Accessory Uses

1. Home occupations and professional home offices.
2. Gardening, tool, and storage sheds incidental to the residential use.
3. Satellite dish antennas located on the roof of the principal structure or in the rear yard. Where the satellite dish is roof-mounted, a registered engineer shall certify that the structure is adequate to support the load.
4. Roof-mounted solar collectors provided that a registered engineer shall certify that the structure is adequate to support the load.

C. Conditional Uses

1. Conditional uses as allowed in Section 17.0500 Conditional Uses.

D. Lot Area and Width

1. Lots shall be a minimum of 7,200 square feet in area and shall be not less than 50 feet in width.
2. Each Rs-4 district lot shall maintain 50 percent of the lot area in permanent open space; exclusive of dwellings, garages, storage sheds, driveways, and parking areas. A patio, deck, swimming pool, or tennis court may be considered as open space.

E. Building Height and Area

1. No building or parts of a building shall exceed 30 feet in height.
2. The total minimum finished living area of a one-story, two-story or bi-level dwelling shall be 1,200 square feet.
3. The minimum finished first floor area of a bi-level or two-story dwelling shall be 800 square feet.
4. A tri-level dwelling shall have a minimum finished living area of 1,200 square feet.
5. The upper two levels of a tri-level dwelling shall be fully finished.
6. The lower level of a tri-level dwelling may contain unfinished living area provided that the minimum finished floor area requirement is provided on the upper two levels.
7. All living areas--finished and unfinished--shall comply with the energy conservation requirements of the Uniform Dwelling Code (Chapters SPS 320-325 of the Wisconsin Administrative Code).

8. No dwelling level providing less than 200 square feet of finished living area shall be used in the calculation of living area.

F. Setback and Yards

1. There shall be a minimum building setback of 30 feet from the street right-of-way. For properties abutting Maple Avenue the street right-of-way setback shall be 20 feet.
2. Side Yard
  - (a). There shall be a side yard on each side of the principal structure of not less than 10 feet in width; or
  - (b). The Plan Commission may make a finding to allow the expansion/reconstruction of a principal structure such that one side yard is reduced in width below 10 feet if it finds all of the following:
    - (1) The principal structure was constructed prior to 1980.
    - (2) One side yard width remains at least 10 feet in width.
    - (3) The reduced side yard is the greater of at least 1 foot in width or the narrowest current side yard setback of the existing principal structure or detached garage.
    - (4) The expansion of the principal structure within the reduced side yard setback does not encroach into the street yard closer than the existing principal structure.
    - (5) The expansion does not impact the welfare and safety of the area.
3. There shall be a rear yard of not less than 25 feet.
4. No building or structure shall be located closer than 15 feet to a F-1 Floodway District, F-2 Floodplain Conservancy District, or LCO Lowland Conservancy Overlay District boundary; however, the Plan Commission may, in its sole discretion, after balancing the interests of the property owner and the public interest in wetland protection, allow a setback of less than 15 feet from a F-1 Floodway District, F-2 Floodplain Conservancy District, or LCO Lowland Conservancy Overlay District boundary if: (a) the proposed setback will be no less than 5 feet; (b) the average setback for the entire property from the adjacent wetlands will be at least 15 feet; and,
  - (c) the Village Engineer has approved a plan to restore, define, and protect the adjacent wetlands. Where shoreland regulations apply no building or structures shall be located closer than as allowed by Village shoreland regulations.

G. Erosion Control

1. See Chapter 14 of the Municipal Code of the Village.

**17.0506**

**CONDITIONAL USES**

A. **RESIDENTIAL CONDITIONAL USES**

The following residential and quasi-residential uses shall be conditional uses and may be permitted as specified in this section. Petitioners for conditional uses in the residential section must produce an "Impact Report" detailing the impacts of said use to neighboring properties and to Village services from traffic, parking, and overflow parking, noise, odor, safety, crime, hours of operation,

health and sanitation, and property maintenance issues. The Village Administrator shall analyze said report along with any supplemental reports from the Village, and its agents, to create an impact report for the application utilizing the Professional and Technical Trade standards for traffic, noise, dust, light, crime and fire prevention, etc. as a guide for the same. The Petitioner shall then prove by substantial evidence how their use will mitigate and address the findings of the impact report. In addition additional standards shall apply for specific types of uses as follows:

5. Accessory Apartments in all single-family residential districts provided that:
  - a) The principle dwelling has a minimum living area of 1,000 square feet, excluding the accessory dwelling unit;
  - b) The principle dwelling unit is owner occupied;
  - c) There may be only one accessory apartment per principle dwelling unit;
  - d) The accessory apartment shall have a minimum living area of 600 square feet and no more than one bedroom; and,
  - e) The accessory apartment shall be occupied by a person related to the owner of the principle dwelling unit by blood, marriage or adoption.

#### **Site Plan Review Standards 17.1000**

17.1002 PRINCIPLES To implement and define criteria for the purposes set forth in Section 17.1001, the following principles are established to apply to all new structures and uses and to changes or additions to existing structures and uses.

A. No structure, or use shall be established that is counter to the intent of the Design Standards nor shall the same be permitted that would have a negative impact on the maintenance of safe and healthful conditions in the Village. Structures and uses in the B-4 Central Mixed Use District shall also adhere to the intent of the Downtown Development and Design Plan.

B. No structure shall be permitted:

1. The design or exterior appearance of which is of such unorthodox or abnormal character in relation to its surroundings as to be unsightly or offensive to generally accepted taste and community standards.
2. The design or exterior appearance of which is so identical to a building on lots within 500 feet of each other that it creates excessive monotony or 17.1000 drabness, in order to realize architectural uniqueness between lots.
3. Where any exposed facade is not constructed or faced with a finished material or color which is aesthetically compatible with the other facades and presents an attractive appearance to the public and to surrounding properties.

C. The facade of a manufacturing building which faces upon a street right-of-way shall be finished with an aesthetically pleasing material. A minimum of 50 percent of a facade facing a street shall be finished with brick or decorative masonry material. Such masonry facing shall extend for a

distance of at least 10 feet along the sides of the structure. Manufacturing buildings on corner lots shall have the required masonry facade facing each street. Metal buildings may be constructed in any business, manufacturing, institutional, or park district, but only by a 3/4 affirmative vote of the Plan Commission.

D. Building Scale and Mass. The relative proportion of a building to its neighboring buildings, to pedestrians and observers, or to other existing buildings shall be maintained or enhanced when new buildings are built or when existing buildings are remodeled or altered.

E. Structures and uses shall make appropriate use of open spaces and the Plan Commission may require appropriate landscaping and planting screens. All landscaped areas shall provide a mix of climax trees, tall and medium deciduous trees, tall and medium coniferous trees, deciduous and coniferous shrubs, and grasses. The appropriate mix shall be determined by the Plan Commission.

F. No articles, goods, material, finished or unfinished product, incinerators, storage tanks, refuse containers, or like equipment shall be kept outdoors, exposed to public view, or exposed to view from adjacent buildings and property. Garbage and refuse containers shall be screened from the street and from neighboring facilities. The Plan Commission may permit the outdoor display of product or merchandise when it makes a finding that such display is essential to a business or industrial use.

G. Structures and uses shall be provided with adequate services as approved by the appropriate utility and serve to implement the recommendations of Utility and Stormwater Management Plans of the Village.

H. Buildings and uses shall provide adequate parking and loading areas. No loading dock or overhead door shall face upon a street right-of-way unless a determination is made by the Plan Commission to allow the same, as described herein.

1. The Plan Commission shall not allow the same unless the Plan Commission first finds either a or b: (a) That the loading dock or overhead door is set back at least 75 feet from the street right-of-way and adequate vehicle turnaround areas have been provided on the lot, such that no maneuvering of vehicles will take place within the street right-of-way in order to access the loading dock or overhead door. (b) That the building is on a lot within the M-1 Industrial District and the building has a previously approved loading dock facing the street.

2. If the Plan Commission finds (1) (a) or (1) (b), above, then the Plan Commission may allow the loading dock or overhead door to face the street right-of-way upon consideration of the following additional factors, without limitation by reason of enumeration: 17.1000 (a) Whether the loading dock or overhead door is set back sufficiently from the street right-of-way to adequately limit the adverse visual impact of the loading dock or overhead door; (b) Whether the number of loading docks or overhead doors that are proposed to face the street right-of-way, due to their number, would create an adverse visual impact; (c) Whether the natural terrain and other existing features of the lot may affect the visual impact of the loading dock or overhead door; and (d) Whether the loading dock or overhead door will be appropriately screened with landscape berms or other landscaping.

**Any other standards from Chapter 17 that may be relevant.**

## **Impact Report - Conditional Use Permit - N61W23728 Sumac Ln - Gin**

A conditional use permit is being applied for in order to add an exterior door the the living space behind the garage located at N61W23728 Sumac Ln. Please see impact categories and comments below. The addition of this door will have little to no impact to the neighborhood/village.

### **Impact to:**

- Neighboring properties - Neighbors to the east would periodically see residents walking to their new front door on the east side of the living space.
- Traffic - No impact - not changing the number of residents at the property
- Parking - No impact - not changing the number of residents at the property
- Noise - No impact - not changing the number of residents at the property
- Odor - No impact - no odor producing work
- Safety - No impact - no safety concerns added
- Crime - No impact - no crime related changes
- Hours of operation - No impact - not changing the number of residents at the property
- Health and sanitation - No impact - no health or sanitation related changes
- Property maintenance - minimal impact - New sidewalk will require shoveling by residents

**2024**  
**VILLAGE OF SUSSEX ORDER GRANTING**  
**A CONDITIONAL USE AND PRESCRIBING**  
**CONDITIONS TO ALLOW AN ACCESSORY APARTMENT AT**  
**N61W23728 SUMAC LANE IN THE VILLAGE OF SUSSEX**

WHEREAS, an application has been filed by Nancy Gin, on the subject property (hereinafter collectively “Petitioners”); and

WHEREAS, the Petitioner is requesting a conditional use permit be granted pursuant to the Zoning Ordinance for the Village of Sussex for the property at SUXV0246118, N61W23728 Sumac Ln, in the Village of Sussex, Wisconsin, all as described on **Exhibit A** attached hereto and incorporated herein (hereinafter “Subject Property”); and

WHEREAS, upon referral of the application by the Village Clerk, the Plan Commission for the Village of Sussex determined that the application met all requirements as set forth in Section 17.0502 and scheduled a public hearing thereon as soon as practical; and

WHEREAS, upon publication of the required “Notice of Public Hearing” and mailing of said “Notice of Public Hearing” to all parties-in-interest as required by Section 17.1401 of the Zoning Ordinance, the Plan Commission held a public hearing on December 19, 2023 and January 16, 2024 as required by Section 17.0505 of the Zoning Ordinance for the Village of Sussex; and

WHEREAS, the Plan Commission has followed the review procedures of Section 17.0503 by reviewing the site, existing and proposed structures, architectural plans, neighboring uses, parking areas, driveway locations, highway access traffic generation and circulation, drainage, sewerage and water systems, and the proposed operation; and

WHEREAS, the Subject Property is zoned RS-4 Single Family Residential District; and

WHEREAS, an accessory apartment is a conditional use in accordance with Section 17.0506(B)(5) and the request for conditional uses authorized the subject property to construct an accessory apartment at the subject property; and

WHEREAS, the Plan Commission for the Village of Sussex finds that the petitioner’s proposed conditional use, if said use is carried out in strict compliance with the conditions described herein, is not adverse to the public health, safety, or welfare; it is not in conflict with the spirit or intent of the Village of Sussex Zoning Ordinance; and it is not otherwise detrimental to the community and particularly the surrounding neighborhood; and

WHEREAS, the Plan Commission for the Village of Sussex, following the public hearing and necessary study and investigation, having given the matter due consideration, and having based its determination on the effect of granting such conditional use permit on the health, general welfare, safety, and economic prosperity of the Village and specifically of the immediate neighborhood in which said use will be located, and having given due consideration to the municipal problems involved, as well as impact on the surrounding properties as to noise, dust, smoke, odor, or other similar factors, hereby determines that the use will not violate the spirit or intent of the Zoning Ordinance for the Village of Sussex, will not be contrary to the public health, safety or general welfare of the Village of Sussex, will not be a hazardous, harmful, noxious, offensive, or nuisance by reason of smoke, dust, odor, or other similar factors and will not for any

other reason cause a substantial adverse effect on the property values and general desirability of the neighborhood as long as the conditional use is operated pursuant to the following conditions and in strict compliance with the same.

THEREFORE, IT IS ORDERED AS FOLLOWS:

Commencing upon the date hereof, a conditional use permit for the Subject Property is hereby granted. The conditional use permit granted herein shall apply only to the specific use of the Subject Property by the Petitioners for an accessory apartment as set forth in Section 17.0506 Conditional Uses if approved as part of a Plan of Operation and site plan; and the conditional use permit shall continue in existence only so long as the conditional use is operated in compliance with this permit. This conditional use permit is subject to initial and continued compliance with each and every one of the following conditions, restrictions, and limitations.

- A. This conditional use is granted for the Petitioner for the above enumerated uses, incorporating the findings as set forth above and subject to the following conditions:
1. Presentation Compliance. The outdoor storage of equipment is approved herein on the Subject Property, and the use thereof, shall be used in substantial conformity with the presentation at the Public Hearings before the Plan Commission held on December 19, 2023 and January 16, 2024
  2. Subject Property. This conditional use permit issued to the Petitioners, shall be limited to the property described in **Exhibit A** attached hereto and incorporated herein and to the site plan presented at public hearing.
  3. Plans. The Petitioners are required and must have all plans current, approved by the Plan Commission for the Village of Sussex, and on file with the Village Clerk for the Village of Sussex in order for this CU to be in effect. The Petitioner shall be entitled to amend or change any plan contemplated herein subject to the specific language of the Conditional use and subject to the Plan Commission for the Village of Sussex approval and without a public hearing, if such amendments and/or change is not a substantial amendment or change in any plan contemplated herein as solely determined by the Plan Commission. If the Plan Commission for the Village of Sussex feels, in its sole discretion, that the amendment or change to any plan contemplated herein is substantial, the amendment or change will require a new permit and all Village procedures in place at the time must be followed.
    - A. Site Plan. The Petitioners shall comply with the site plan, which shall be attached hereto and incorporated herein as **Exhibit B.**
    - B. Plan of Operation. The Petitioners shall submit to and receive approval from the Village Plan Commission a specific plan of operation for the Subject Property, the same to be in substantial conformance with the preliminary plans on file and with the presentations at the Meetings. Once approved the plan of operation shall be attached hereto and incorporated herein as **Exhibit C.**



- C. Traffic, Access, Loading, and Parking Plans. The Petitioner shall comply with the existing traffic parking, loading, and egress plan for the subject property on file with the Village Clerk.
  - D. Lighting Plan. The Petitioner shall maintain the existing lighting plan for the Subject Property on file with the Village Clerk
  - E. Signage Plan. The Petitioner must submit a signage plan for the subject property on file with the Village Clerk.
  - F. Public Improvements. All public improvements shall be permitted through the Village of Sussex.
  - G. Sewer, Water, Stormwater and Erosion Control Plans. The Petitioner shall comply with the specific sewer, water, stormwater, and erosion control plans on file with the Village Clerk.
  - H. Fence, Landscaping, Berm, and Open Space Utilization Plan. The Petitioner shall comply with the specific Fence, Landscaping, Berm, and Open Space Utilization Plan for the Subject Property on file with the Village Clerk.
  - I. Architectural and Building Plan. The Petitioner shall comply with the specific Architectural and Building Plan for the Subject Property on file with the Village Clerk.
  - J. Outdoor Storage and Uses Plan. Only outdoor storage as permitted in the RS-4 Single Family Residential District is allowed. If the Petitioner wishes to have additional outdoor storage they must seek approval from the Plan Commission without a new public hearing unless the Plan Commission determines a public hearing is necessary.
- 4. Adult-Oriented Materials. No adult-oriented materials or pornographic videotapes, magazines, or gift items will be sold or rented from the subject facility.
  - 5. Licenses. The Petitioner shall be required to obtain any and all required licenses and permits from the Village, County, State, and Federal Government. If any license or permit is issued, any and all conditions of the same are incorporated herein and made a part of this conditional use permit.
  - 6. Laws. The Petitioner shall comply with all Federal, State, County, and local rules, codes, ordinances, and regulations in the construction, operation, and maintenance of the Subject Property, including but not limited to the following:
    - 1. The principle dwelling has a minimum living area of 1,000 square feet, excluding the accessory dwelling unit.
    - 2. The principle dwelling unit is owner occupied.
    - 3. There may be only one accessory apartment per principle dwelling unit.
    - 4. The accessory apartment shall have a minimum living area of 600 square feet and no more than one bedroom.

5. The accessory apartment shall be occupied by a person related to the owner of the principle dwelling unit by blood, marriage or adoption.
7. Building and Fire Inspection. The Petitioner is required to keep the Subject Property in compliance with all federal, State, and local laws, statutes, codes, ordinances, policies, and guidelines as determined by the Building and Fire Inspectors of the Village of Sussex.
8. Aesthetics. The Petitioner is required to properly maintain the Subject Property at all times and in full compliance with the Village Property Maintenance Code, Section 9.07 of the Village of Sussex Code all to the satisfaction of the Plan Commission for the Village of Sussex.
9. Junk. No junk shall be accumulated or stored on the Subject Property. No burying or burning of junk is permitted on the Subject Property. No junk vehicles, trailers, or other pieces of equipment that are inoperable shall be stored on the Subject Property.
10. Temporary Use or Activity. No temporary use or special activity or event shall be permitted without prior approval of the Plan Commission of the Village of Sussex and the same must be in compliance with all ordinance, rules, and regulations of the Village of Sussex and all necessary permits must be obtained except for as allowed by Outdoor Establishment Permit under Chapter 4 or Auxiliary Use under Section 17.0710.
11. Fees and Expenses. The Petitioner, upon issuance of this conditional use permit, shall reimburse the Village of Sussex for all expenses incurred by the Village, including, but not limited to, expenses for the Village Administrator, Village Engineer, Village Attorney, and all other professionals and technical assistance realized by the Village in approving and granting this conditional use permit. The Village Clerk shall provide the Petitioner with copies of all itemized invoices.
12. Enforcement. Any attorney fees incurred by the Village of Sussex to enforce any of the conditions or requirements of this conditional use permit must be paid by the Petitioner.
13. Complaints. In the event the Petitioner receives any complaints with regard to the operation authorized by this conditional use, the Petitioner shall respond to such complaints in writing within a reasonable time not to exceed two weeks from the date of the complaint and shall provide a copy of the written response to the Sussex Village Administrator within the same period of time. If the complaint was made in writing, the copy provided to the Village Administrator shall include a copy of the complaint.
14. No Nuisance. The Village reserves the right to rescind its approval of this conditional use permit based upon the finding that the use is incompatible and a nuisance to surrounding uses, that the use is not in the public interest, or that the use adversely affects the use of adjacent lands, provided the Petitioner is given an opportunity to be heard on the matter and, if so rescinded the Petitioner and Subject Property shall thereupon be immediately subject to the Village of Sussex Zoning

Ordinances , as applicable, regarding the use of the Subject Property as though no conditional use permit was granted.

15. Subject to Acceptance. Subject to the Owner approving in writing the issuance of the same and Petitioner acknowledging in writing that they have received a copy of this conditional approval, that they understand and accept the same, and that upon failure to satisfy these conditions this approval is void, and the same is deemed to not have been approved, and the Petitioner will therefore need to re-commence the application process.
  16. Review. The Plan Commission for the Village of Sussex reserves its right to review the operation and amend the conditional use permit as the Plan Commission for the Village of Sussex deems appropriate.
- B. Any use not specifically listed as permitted shall be considered to be prohibited except as may be otherwise specifically provided herein. In case of a question as to the classification of use, the question shall be submitted to the Plan Commission for the Village of Sussex for determination.
- C. No use is hereby authorized unless the use is conducted in a lawful, orderly and peaceful manner. Nothing in this order shall be deemed to authorize any public or private nuisance or to constitute a waiver, exemption or exception to any law, ordinance, order or rule of either the Village of Sussex, the County of Waukesha, the State of Wisconsin, the United States of America or other duly constituted authority, except only to the extent that it authorizes the use of the Subject Property above described in any specific respects described herein. This order shall not be deemed to constitute a building permit, nor shall this order constitute any other license or permit required by Village ordinance or other law.
- D. This conditional use hereby authorized shall be confined to the Subject Property described, without extension or expansion other than as noted herein, and shall not vary from the purposes herein mentioned unless expressly authorized in writing by the Plan Commission for the Village of Sussex as being in compliance with all pertinent ordinances.
- E. Should the permitted conditional use be abandoned in any manner, or discontinued in use for twelve (12) months, or continued other than in strict conformity with the conditions of the original approval, or should the Petitioner be delinquent in payment of any monies due and owing to the municipality, or should a change in the character of the surrounding area or the use itself cause it to be no longer compatible with the surrounding area or for similar cause based upon consideration of public health, safety or welfare, the conditional use may be terminated by action of the Plan Commission for the Village of Sussex.
- F. Any change, addition, modification, alteration and/or amendment of any aspect of this conditional use, including but not limited to a change in the use, premises, lands or owners, other than as specifically authorized herein, shall require a new permit and all Village procedures in place at the time must be followed.
- G. Unless this conditional use permit expressly states otherwise, plans that are specifically required by this conditional use order may be amended upon the prior approval of the Plan Commission if the Plan Commission finds the plan amendment to be minor and consistent with the conditional use permit. Any change in any plan that the Plan Commission, in its

sole discretion, finds to be substantial shall require a new permit, and all procedures in place at the time must be followed.

- H. Should any paragraph or phrase of this conditional use permit be determined by a Court to be unlawful, illegal, or unconstitutional, said determination as to the particular phrase or paragraph shall not void the rest of the conditional use and the remainder shall continue in full force and effect.
- I. This conditional use permit shall be effective for an initial term that ends five years from the date of January 1 of the year the conditional use is approved. During the final year of the 5 year term of the CU the Village Administrator or designee shall examine the record to determine if concerns about the operation have been raised in writing by the public, a governmental body or official, or anyone else, and shall also review the site and the adjoining area for compliance with the conditions of the CU. If based upon that review the use of the property is compatible with the surrounding areas and the Petitioner is in substantial compliance with all terms of this conditional use agreement, then, in that event, the Conditional Use can be automatically renewed for another 5 year term. If based upon that review the Village Administrator finds concerns about compliance with the conditions of the Conditional Use, the Petitioner shall be brought back before the Plan Commission for consideration of the renewal. The Petitioner shall have the responsibility to apply for the renewal by January 30<sup>th</sup> of the final year of the term of the CU. Failure of Petitioner to apply for the renewal as provided herein shall be deemed a violation of the conditions of the conditional use and may serve as a basis for termination of the conditional use permit. The Plan Commission for the Village of Sussex may add additional conditions at any time.
  - 1. Where the changing character of the surrounding area causes the original conditional use or subsequent approved amendments thereto to no longer be compatible with the surrounding area, or for similar cause, based upon consideration for the public welfare, the conditional use order and any subsequent approved amendments or changes may be terminated by action of the Plan Commission of the Village of Sussex. Such use shall thereafter be classified as a legal nonconforming use as it was permitted to exist on the day it was terminated.
  - 2. Where this permitted conditional use does not continue in conformity with the conditions of the original approval or subsequent approved amendments or changes, the conditional use grant and any subsequent approved amendments thereto may be amended or terminated by action of the Plan Commission for the Village of Sussex. The Plan Commission for the Village of Sussex may require complete termination of such use.
  - 3. This conditional use may be reviewed annually. Additionally, this conditional use may be reviewed by the Plan Commission for the Village of Sussex at any time upon complaint or upon Plan Commission initiative.
- J. Upon acceptance by Petitioner of this conditional use permit, all prior conditional use permits granted to the Subject Property are hereby revoked and terminated.
- K. If any aspect of this conditional use permit or any aspect of any plan contemplated and approved under this conditional use is in conflict with any other aspect of the conditional use

or any aspect of any plan of the conditional use, the more restrictive provision shall be controlling as determined by the Plan Commission for the Village of Sussex.

- L. If any paragraph or phrase of this conditional use order is declared by a Court of competent jurisdiction to be invalid, unlawful, or unenforceable, such decision shall apply only to the specific paragraph or phrase thereof directly specified in the decision and shall not affect the validity of any other provisions, sections, or portions thereof of this order. The remainder of the order shall remain in full force and effect.

Let copies of this order be filed in the permanent records of the Plan Commission for the Village of Sussex, and let copies be sent to the proper Village authorities and the Petitioner.

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 2024 BY THE PLAN COMMISSION FOR THE VILLAGE OF SUSSEX

\_\_\_\_\_  
Anthony LeDonne  
Village President

\_\_\_\_\_  
Jennifer Moore  
Village Clerk

#### PETITIONER ACCEPTANCE

I hereby accept the terms of this Conditional Use in its entirety.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023

\_\_\_\_\_  
Agent

This conditional use was drafted by Jeremy Smith, Village Administrator off of a model by Attorney John P. Macy ARENZ, MOLTER, MACY & RIFFLE, S.C., Village Attorneys for the Village of Sussex.

EXHIBIT A

LOT 13 BLK 3 HICKORY HEIGHTS BEING PT PRCL 2 CSM #3942 PT NE1/4 & SE1/4  
OF NW1/4 SEC 26 T8N R19E

## EXHIBIT B

### Site Plan

## EXHIBIT C

### Plan of Operation





Project Name Hwy 164 & K

Tax Key # SUXV0278999005

VILLAGE OF SUSSEX  
PLAN OF OPERATION  
PROCEDURE LIST

Pre-application conference must be arranged with Gabe Gilbertson, Community Development Director. Please contact us at 262-246-5215 prior to submitting your application.

Complete the following: Plan of Operation, Service Reimbursement Agreement, Emergency Contact and Wastewater Discharge Permit.

Submit the completed forms and the required fee by the last business day of the month for consideration for the next Plan Commission Agenda. Please note that submitting by the deadline does not guarantee placement on the Plan Commission Agenda. Completed forms can be emailed to [ggilbertson@villagesussex.org](mailto:ggilbertson@villagesussex.org).

The following fees are required at the time of submittal:

<input checked="" type="checkbox"/> Plan of Operation fee	\$175.00
<input checked="" type="checkbox"/> Conditional Use fee (if necessary)	\$210.00
<input type="checkbox"/> Pre Occupancy inspection fee	\$100.00

Please make check payable to: Village of Sussex (fees are non refundable)

Notes: \_\_\_\_\_  
\_\_\_\_\_

Additional fees are required for building permits, review fees, or other items depending upon the nature of your request.

Contact Name for meetings: Peter Schau, Terra Consulting Group Phone # (773) 919-5112

E-mail: petes@terra ltd.com

For office use only:

Met with staff on: \_\_\_\_\_

Paid fees on: \_\_\_\_\_

To be on the Plan Commission Agenda for: \_\_\_\_\_

Original forms to the following:

Plan of Operation to Jeremy \_\_\_\_\_

Service reimbursement \_\_\_\_\_

Emergency Contact to Sheriff Dept \_\_\_\_\_

Wastewater Permit to WWTP \_\_\_\_\_

Any outstanding fees owed on the property? \_\_\_\_\_

DAID 9/25/23 #28418



## PLAN OF OPERATION

To be used for a business with changes or new business in an existing building.

Is this request to be considered for a Conditional Use? Yes If yes, is this a new CU? Yes

(Conditional Use Permits require a Public Hearing)

OR an amendment to a CU? \_\_\_\_\_

Tax Key # SUXV0278999005

Zoning: I1-Institutional District

Address of Tenant Space: N249N5889 Executive Drive, Sussex, WI 53089

### 1. Name of Business:

Verizon Wireless Unmanned Mobile Service Facility

Business	c/o-David Hendrixon	
1701 Golf Road, Tower 2, Suite 400	Rolling Meadows, IL 60008	(231) 578-8860
Address	City, State, Zip	Phone #
N/A	david.hendrixon@verizonwireless.com	
Fax #	Email address	

### 2. Business owner contact information:

Peter Schau, Agent for Verizon Wireless

Contact		
Terra Consulting Group, 600 Busse Highway, Park Ridge, IL 60068	(773) 919-5112	
Address	City, State, Zip	Phone #
N/A	petes@terraltd.com	
Fax #	Email address	

### 3. Building/Land owner contact information:

Village of Sussex (Municipal Water Tower)-Jeremy Smith, Village Administrator

Contact		
N64W23760 Main Street	Sussex, WI 53089	(262) 246-5200
Address	City, State, Zip	Phone #
(262) 246-5222	jsmith@sussexwi.gov	
Fax #	Email address	

4. Number of Employees/Shifts: N/A-Unmanned Site N/A-Unmanned Site  
Employees Shifts

### 5. Days of Operation:

Put an X in box that applies:

Hours

Open for business

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
X	X	X	X	X	X	X
N/A	N/A	N/A	N/A	N/A	N/A	N/A

6. Is this an extension of an existing operation? No
7. On a separate sheet of paper explain your business use and/or the change to your business. Attach a list of all items to be sold, produced or stored on the premises.
8. Is a liquor license or any other special license to be obtained from the Village Board or State Licensing Agencies? No Do you need an Outdoor Establishment Permit? No  
If yes, explain: N/A  
If yes, please obtain and complete permit application.
9. If your proposed operation will utilize a liquor license, what types of entertainment are you proposing? N/A
10. Do you feel there will be any problems such as odor, smoke or noise resulting from this operation? No If yes, explain: N/A
11. Dimension of area to be occupied 26' x 70' Total square footage 1,820 sf  
If applicable list square footage according to 1<sup>st</sup> floor N/A 2<sup>nd</sup> floor N/A

Please provide a copy of the site plan showing parking and layout of the building and if a multi tenant building, label the space which will be occupied by your business.

12. Parking:  
Total Number of Parking Spaces 1 Number of spaces needed per code 1  
Number of spaces allocated for employee parking \_\_\_\_\_  
Dimensions of parking lot Irregular, existing Is parking lot paved? Yes

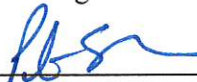
13. Signage: What type of signage are you proposing for your business?

No business ID signage proposed.

If applicable, complete a Sign Permit application and submit to the Building Inspection Dept. Please refer to Chapter 17.0800.

I have reviewed a copy of the Zoning Ordinance in the Village of Sussex and hereby agree to abide by the same, as well as any and all terms and conditions of any permit issued pursuant to this application.

I do swear to or affirm that all statements contained herein are true and correct to the best of our knowledge.

  
Name  
Agent for Verizon Wireless  
Title or Position

9/19/2023  
Date

I am aware and approve of the business to be operating in the building owned by \_\_\_\_\_.

\_\_\_\_\_  
Name  
\_\_\_\_\_  
Title or Position

\_\_\_\_\_  
Date





N64W23760 Main Street  
Sussex, Wisconsin 53089  
Phone (262) 246-5200  
FAX (262) 246-5222  
Email: [info@villagesussex.org](mailto:info@villagesussex.org)  
Website: [www.villagesussex.org](http://www.villagesussex.org)

**VILLAGE OF SUSSEX  
PROFESSIONAL SERVICES REIMBURSEMENT NOTICE**

Pursuant to the Village of Sussex Ordinance No. 3.11, the Village of Sussex Village Board has determined that whenever the services of the Village Attorney, Village Engineer, Village Planner, or any other of the Village's professional staff results in a charge to the Village for that professional's time and services and such service is not a service supplied to the Village as a whole, the Village Clerk shall charge that service for the fees incurred by the Village to the property owner incurring those fees even if the request is not approved. Also, be advised that pursuant to said Village of Sussex Ordinances, certain other fees, costs, and charges are the responsibility of the property owner even if the request is not approved. Imposition of any fees, costs or charges, however, is subjected to the property owner's appeal rights as described in said Village of Sussex Ordinances.

I, the undersigned, have been advised that, pursuant to said Village of Sussex Ordinances, if the Village Attorney, Village Engineer, Village Planner or any other Village professional provides services to the Village because of my activities, whether at my request or at the request of the Village, I shall be responsible for the fees incurred by the Village even if the request is not approved. In addition, I have been advised that pursuant to said Village of Sussex Ordinances, certain other fees, costs, and charges are my responsibility even if the request is not approved. By signing this document however, I am not waiving my appeal rights that are described in said Village of Sussex Ordinances.

**PLEASE PRINT LEGIBLY**

Name and Mailing Address of the Property Owner and /or Authorized Agent for Invoices:

Peter Schau, Terra Consulting Group

600 Busse Highway, Park Ridge, IL 60068


Business Name: Verizon Wireless

Name of Owner and Address of the Property involved in the Request (if different from above):

Village of Sussex

N64W23760 Main Street, Sussex, WI 53089

Tax Key No. of the Property involved in the Request: SUXV 0278999005

, on behalf of Verizon Wireless  
Signature of Property Owner and /or Authorized Agent

9/19/2023  
Date

\_\_\_\_\_  
Signature of Village Official Accepting Form

\_\_\_\_\_  
Date

*A copy of this completed form shall be provided to the Village Clerk for billing purposes.*



**Village of Sussex Fire Department**  
**N63 W24335 Main Street**  
**Sussex, Wisconsin 53089**

Fire Station - *PHONE*  
262-246-5197  
Fire Station - *FAX*  
262-246-5196

Waukesha County Sheriff – Sussex Office

Emergency Contact Form to be completed with Plan of Operation form.

**Business Name:** Verizon Wireless

**Business Address:** 1701 Golf Road, Tower 2, Suite 400, Rolling Meadows, IL 60008

**Business Phone #:** (847) 706-7434

**Business**

**Email:** ilwipropertymanagement@verizon.com

**Business Emergency Contacts**

Name and Phone #: Network Operations Center (NOC) / (800) 264-6620

Name and Phone #: \_\_\_\_\_

Name and Phone #: \_\_\_\_\_

**Building Owner Name:** Village of Sussex

**Building Owner Email:** jbaumann@sussexwi.gov

**Building Owner Emergency Contacts**

Name and Phone #: Sussex Public Works / (262) 246-5200

Name and Phone #: \_\_\_\_\_

Knox Box (if applies) Have locks been changed and new key provided to Fire Department? Yes No



**Via: USPS Priority Mail**

September 19, 2023

Gabe Gilbertson  
Community Development Director  
Village of Sussex  
N64W23760 Main Street  
Sussex, WI 53089

**Re: Plan of Operation & Conditional Use Permit Application Submittal/Verizon Wireless-Class 1 Collocation /Village of Sussex Water Tower/W249N5889 Executive Drive, Sussex, WI 53089.**

**Parcel ID #: SUXV0278999005.**

Dear Director Gilbertson,

On behalf of our client Verizon Wireless, enclosed please find the required project information along with a completed **Village of Plan of Operation Procedure List Form and Plan of Operation Application Form** with a conditional use request for a Class 1 Collocation upon the above referenced Village of Sussex water tower and property. This application and its corresponding submittal information have been prepared in accordance with the Village of Sussex Ordinance Section **17.0509 Wireless Telecommunications Mobile Service Facilities** and the State of Wisconsin Mobile tower siting regulations found at Wis. Stat. Sect. 66.0404.

The application procedures for a class 1 collocation requiring a substantial modification to an existing mobile service support structure (water tower) and mobile service facility (communications equipment) are found at Wis. Stat. Sect. 66.0404(2)(b) and list six (6) requirements for a completed application.

Below is a narrative on these six (6) requirements, including the specific project information.

**1. The name and business address of, and the contact individual of, the applicant.**

**Applicant (s):**

Verizon Wireless  
Attn: David Hendrixon  
1701 Golf Road, Tower 2, Suite 400  
Rolling Meadows, IL 60008

**Contact Individual:**

Peter Schau  
Terra Consulting Group  
600 Busse Highway  
Park Ridge, IL 60068



## **2. The location of the proposed or affected support structure.**

W249N5889 Executive Drive, Sussex, WI 53089  
Parcel ID #(s): SUXV0278999005

The affected structure is an existing +/-118' tall Village of Sussex spheroid water tower located in the rear yard of the above referenced 1.874 acre parcel currently home to their well and pumping station. Verizon Wireless is proposing to install its antennas and equipment upon a new tank top mounting rail increasing the maximum height of all existing and proposed appurtenances to 129' 6" AGL.

## **3. The location of the proposed mobile service facility.**

W249N5889 Executive Drive, Sussex, WI 53089  
Parcel ID #(s): SUXV0278999005

The proposed mobile service facility will consist of the installation of the Verizon Wireless antennas and equipment upon a new tank top mounting rail to be added to the existing +/-118' tall Village of Sussex spheroid water tower located in the rear yard of the above referenced 1.874 acre parcel. Verizon Wireless will route its coax/cabling down the interior of the water tower where it will exit the base bell and continue underground to its BTS equipment to be housed in one bay of a new 15' x 45' multi-carrier equipment building located west of the water tower. The Verizon Wireless ground facilities will consist of an interior build out of a dedicated 15' x 15' equipment room in the new building, and a free-standing diesel fueled backup power generator to be located south of the building in a 20' x 22' 6" fenced yard. Both the multi-carrier shelter and fenced yard space will be located within 26' x 70' licensed ground area and will be served by a 20' wide access easement, a 15' and a 10' wide utility easement(s), and three 5' wide coax easements. These new tank mounted equipment installations, ground improvements, licensed premises, and easement areas are all depicted in the enclosed survey and construction drawings.

## **4. If the application is to substantially modify an existing support structure, a construction plan which describes the proposed modifications to the support structure and the equipment and network components, including antennas, transmitters, receivers, base stations, power supplies, cabling, and related equipment associated with the proposed modifications.**

Verizon Wireless is proposing to install its antennas and equipment upon a new tank top mounting rail on top of the existing +/-118' tall Village of Sussex spheroid water tower increasing the maximum height of all existing and proposed appurtenances to 129' 6" AGL. By definition of Wis. Stat. Sect. 66.0404(1)(s)(1), this would not be considered a "substantial modification" of the existing support structure. However, by definition of Wis. Stat. Sect. 66.0404(1)(s)(4) the proposed development of the equipment compound to a site where one doesn't already exist is considered a "substantial modification" qualifying this proposal as a class 1 collocation. See the enclosed construction drawings depicting the proposed modifications to the support structure and equipment locations and details.

## **5. If the application is to construct a new mobile service support structure, a construction plan which describes the proposed mobile services support structure and the equipment and network components, including antennas, transmitters, receivers, base stations, power supplies, cabling, and related equipment to be placed on or around the new mobile service support structure.**

The Verizon Wireless proposal is for a class 1 collocation on an existing mobile service support structure.

**6. If the application is to construct a new mobile service support structure, an explanation as to why the application chose the proposed location and why the applicant did not choose collocation, including a sworn statement from an individual who has the responsibility over the placement of the mobile service support structure attesting that collocation within the applicant's search ring would not result in the same mobile service functionality, coverage, and capacity; is technically infeasible; or is economically burdensome to the mobile service provider.**

The Verizon Wireless proposal is for a class 1 collocation on an existing mobile service support structure.

### **ADDITIONAL DISCUSSION**

This application is for a proposed class 1 collocation at the Village of Sussex water tower and utility facility by its proposed licensee Verizon Wireless. The property is located in the I-1 Institutional District and abuts Village of Sussex BP-1, Business Park properties to the South, East, and West, and the Village of Sussex / Village of Lisbon jurisdictional boundary to the north.

The proposed design has been developed in collaboration with the Village of Sussex Planning & Development, Public Works, and Engineering staff to meet both the standards and objectives of the Village as the Lessor (and fee owner) of the property, but also ensure that it is consistent with the Village's use and operation of the tank, applicable village zoning and land use regulations, design standards, and its tree preservation code.

The proposed tank modifications have also been reviewed by USG Water Solutions, the Village's designated vendor for water tank maintenance. USG will also oversee and inspect the modifications and perform the necessary coating repairs to the tank.

Provisions for the necessary utility services needed to operate the site (power, fiber) will be made with local providers, and will be installed in a manner which least disturbs the existing ground. The installation of the utilities will not alter the topography of the site so the existing drainage patterns will be adequate, as they exist.

The equipment will operate continuously at this unmanned facility. It will require no additional parking or facilities for employees other than those which currently exist upon the improved surfaces of the property. Verizon Wireless' cell site technicians will visit the site periodically, typically a couple hours once per month, for the testing and monitoring of the maintenance and security of its equipment at the site. The facility will not generate any substantial traffic and very little noise, and besides the new tank top antenna mounting rail and attachments, the remainder of the equipment will have a minimal increase to the existing visual impact to the surrounding area.

The proposed backup generator unit will operate as needed during power outages and intermittently during routine testing cycles. Verizon Wireless will typically test run the unit twice per month for 15 to 30 minutes at a time. Generators utilized by Verizon Wireless at all of its facilities contain sound attenuated enclosures to minimize the noise generated by the unit so that it will not unduly impact the surrounding area.



Granting of this Conditional Use Permit will provide a great benefit for the community, in that it will provide additional wireless communication services in an area that Verizon Wireless currently has inconsistent coverage/service. This installation will allow Verizon Wireless to provide its most technologically advanced wireless communication services, at their highest level of quality, to the resident and visitor populations of the Village of Sussex and surrounding areas.

The proposed facility will not require any public participation or result in any public cost for public facilities and services which would be detrimental to the economic welfare of the community. In fact, the wireless communication services offered by Verizon Wireless are desired by both businesses and individuals alike, and will be an economic asset to the community. The enhanced E-911 services provided by facilities such as these will also assist in the protection of the public health, safety, and welfare of the community.

Upon approval of this Plan of Operation/Conditional Use Permit, Verizon Wireless will finalize the license agreements with the Village of Sussex for its proposed use of the water tower and ground locations as described.


Finally, I believe the above information satisfies the applicable application requirements of the Village of Sussex and as preempted by the Wis. Stat. Section 66.0404. Should you have any additional information needs or questions regarding the application, the enclosed materials, or the proposed use of the site, please contact me directly at (773) 919-5112, or by e-mail at [petes@terraltd.com](mailto:petes@terraltd.com).

Sincerely,

*Peter Schau*

Peter Schau  
Terra Consulting Group, LTD.,  
on behalf of Verizon Wireless

K:\22000\32691\Design\CAD\CD Plot\G-001.dgn

SHEET INDEX		SCOPE OF WORK		<div>verizon</div> <div>HWY 164 &amp; K (FUZE # 16805550)</div> <div>SUSSEX, WISCONSIN</div> <div>CONSTRUCTION DRAWINGS</div> <div>118' ± WATER TOWER</div>		CONSULTANT:	
NO.:	SHEET TITLE	PROJECT DESCRIPTION				Edge Consulting Engineers, Inc. 624 WATER STREET PRAIRIE DU SAC, WI 53578 608.644.1449 VOICE 608.644.1549 FAX www.edgesconsult.com	
G-001	TITLE SHEET	PROJECT TYPE: 118' ± WATER TOWER EQUIPMENT: 15'-0" x 45'-0" MULTI-CARRIER SHELTER GENERATOR: EXTERIOR TERTIARY DIESEL GENERATOR				CLIENT:	
G-002	GENERAL SPECIFICATIONS	RF DESCRIPTION (VERIFY WITH RFDS) PRO. ANTENNA C/L: 120'-6" ABOVE T.O.C. ANTENNAS: (6) PRO. PANEL ANTENNA(S) (3) PRO. AIR6419 ANTENNA/RADIO(S) (3) PRO. 4408 RADIO/ANTENNA(S)				verizon CHICAGO SMSA LIMITED PARTNERSHIP d/b/a VERIZON WIRELESS 1701 GOLF ROAD TOWER 2, SUITE 400 ROLLING MEADOW, IL 60008	
G-003	GENERAL SPECIFICATIONS	CABLES: (3) PRO. HYBRID LINE(S) EQUIPMENT: (3) PRO. SURGE PROTECTOR(S) (6) PRO. REMOTE RADIO UNIT(S)		STRUCTURAL		TITLE SHEET HWY 164 & K (FUZE # 16805550) SUSSEX, WISCONSIN	
1-5	SURVEY *						
VzW C-101	SITE PLAN	TOWER ANALYSIS: KRECH OJARD & ASSOCIATES, INC. REPORT #: 222002.17 DATED: 10/11/2023 CONCLUSION: PASS		MOUNT ANALYSIS: KRECH OJARD & ASSOCIATES, INC. REPORT #: 222002.17 DATED: 10/11/2023 CONCLUSION: PASS			
VzW C-102	ENLARGED SITE PLAN	CONTRACTOR TO REVIEW STRUCTURAL REPORT IN ITS ENTIRETY. ANY DISCREPANCIES OR DISAGREEMENTS BETWEEN THE REPORT AND THESE PLANS SHOULD BE RESOLVED PRIOR TO CONSTRUCTION.					
VzW C-103	COMPOUND PLAN	SITE LOCATION MAP		DIRECTORY		PROJECT INFO	
VzW C-104	ENLARGED COMPOUND PLAN			CLIENT: CHICAGO SMSA LIMITED PARTNERSHIP d/b/a VERIZON WIRELESS 1701 GOLF ROAD TOWER 2, SUITE 400 ROLLING MEADOW, IL 60008 CONTACT: DAVID HENDRIXON PHONE: 231-578-8860		SITE LOCATION: W249N5889 EXECUTIVE DRIVE SUSSEX, WI 53089	
VzW C-105	GRADING PLAN			ENGINEERING COMPANY: EDGE CONSULTING ENGINEERS, INC. 624 WATER STREET PRAIRIE DU SAC, WI 53578 PROJECT MANAGER: PAUL MOLITOR PHONE: 608.644.1449 FAX: 608.644.1549		E911 ADDRESS: TBD	
VzW C-106	EQUIPMENT ROOM LAYOUT PLAN			SITE ACQUISITION: TERRA CONSULTING GROUP CONTACT: PETE SCHAU PHONE: 773.919.5112		PSLC #: 557386	
VzW C-501	COAX CONDUIT AND GPS DETAILS			SURVEYOR: MERIDIAN SURVEYING, LLC N9637 FRIENDSHIP DRIVE KAUKAUNA, WI 54130 CONTACT: CRAIG KEACH PHONE: 920.993.0881		PROPERTY/ TOWER OWNER: VILLAGE OF SUSSEX N64W23760 MAIN STREET SUSSEX, WI 53089	
VzW C-502	CONSTRUCTION DETAILS					SITE COORDINATES (PER 1-A CERTIFICATE): AT CENTER OF EXISTING WATER TOWER LAT: 43°-07'-09.19" LONG: 88°-14'-37.74" GROUND ELEVATION (NAVD 88): 960.0'	
VzW C-503	FENCE & GATE DETAILS					PLSS INFORMATION: BEING A PART OF THE NW1/4 OF THE NW1/4, SECTION 34, T.8N., R.19E., VILLAGE OF SUSSEX, WAUKESHA COUNTY WISCONSIN	
VzW C-504	GRADING DETAILS					TAX KEY NUMBER: SUXV0278999005	
VzW L-101	LANDSCAPE PRESERVATION PLAN					ZONED: I1-INSTITUTIONAL DISTRICT	
VzW L-102	LANDSCAPE PLAN						
VzW L-501	LANDSCAPE DETAILS						
VzW A-101	SHELTER FOUNDATION PLAN						
VzW A-102	SHELTER FRAMING PLAN						
VzW A-201	SHELTER ELEVATIONS						
VzW A-202	SHELTER FRAMING ELEVATIONS						
VzW A-501	SHELTER FOUNDATION DETAILS						
VzW A-502	SHELTER FRAMING DETAILS						
VzW A-503	SHELTER FRAMING DETAILS						
VzW T-001	ANTENNA SPECIFICATIONS						
VzW T-002	EQUIPMENT SPECIFICATIONS						
VzW T-003	MOUNTING SPECIFICATIONS						
VzW T-201	TOWER ELEVATION						
VzW T-301	ANTENNA CONFIGURATION						
VzW T-501	ANTENNA MOUNT AND INSTALLATION DETAILS						
VzW T-502	RF SUMMARY						
VzW T-503	RF SUMMARY						
VzW T-504	CABLING DETAILS						
VzW T-505	CABLE ROUTING						
VzW T-506	CABLE ROUTING						
VzW T-507	OBSTRUCTION LIGHT DETAILS						
S-001**	STRUCTURAL SPECIFICATIONS						
S-002**	MODIFICATION INSPECTION CHECKLIST						
S-101**	RAIL MODIFICATION PLAN						
S-501**	RAIL MODIFICATION DETAILS						
S-502**	TOWER MODIFICATION DETAILS						
VzW E-001	GENERATOR SPECIFICATIONS						
VzW E-002	GENERATOR SPECIFICATIONS						
VzW E-101	GROUNDING PLAN						
VzW E-102	UTILITY PLAN						
VzW E-103	SHELTER ELECTRICAL PLAN						
VzW E-104	EQUIPMENT ROOM GROUNDING PLAN						
VzW E-501	GROUNDING DETAILS						
VzW E-502	GROUNDING DETAILS						
VzW E-503	GROUNDING DETAILS						
VzW E-504	UTILITY DETAILS						
VzW E-505	ELECTRICAL DETAILS						
VzW E-506	ELECTRICAL DETAILS						
VzW RF-001	RADIO FREQUENCY REPORT						
VzW RF-002	RADIO FREQUENCY REPORT						
VzW N-001	NOTICE TO CONTRACTOR						
* COMPLETED BY OTHERS ** REVIEWED BY STRUCTURAL ENGINEER; DETAILS INCLUDED FOR CONVENIENCE		UTILITY INFORMATION		ENGINEER SEAL:		I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.	
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.		ELECTRIC SERVICE PROVIDER TBD CONTACT: PHONE: WORK ORDER #:		TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN, CALL DIGGERS HOTLINE  TOLL FREE: 1-800-242-8511 FAX A LOCATE: 1-800-242-5811  WI STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE			
APPLICABLE CODES		FIBER SERVICE PROVIDER TBD CONTACT: PHONE: WORK ORDER #:					
2015 INTERNATIONAL BUILDING CODE (IBC) 2015 INTERNATIONAL FIRE CODE (IFC) 2015 INTERNATIONAL MECHANICAL CODE (IMC) 2014 NATIONAL ELECTRIC CODE (NEC) 2015 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2015 INTERNATIONAL EXISTING BUILDING CODE (IEBC)							

GENERAL

THE CONSTRUCTION DRAWINGS AND SPECIFICATIONS ARE INTERRELATED WHEN PERFORMING THE WORK. EACH CONTRACTOR MUST REFER TO ALL DRAWINGS. COORDINATION IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

DIVISION 1: GENERAL REQUIREMENTS

SECTION 01700 - PROJECT CLOSEOUT

PART 1 - GENERAL

- OBTAIN AND SUBMIT RELEASES ENABLING THE OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES. INCLUDE OCCUPANCY PERMITS, OPERATING CERTIFICATES, AND SIMILAR RELEASES.
- SUBMIT RECORD DRAWINGS, DAMAGE, OR SETTLEMENT SURVEY, PROPERTY SURVEY, AND SIMILAR FINAL RECORD INFORMATION.
- COMPLETE FINAL CLEAN-UP REQUIREMENTS, INCLUDING TOUCH-UP PAINTING. TOUCH-UP AND OTHERWISE REPAIR AND RESTORED MARRED EXPOSED FINISHES.

PART 2 - FINAL CLEANING/PROJECT CLOSEOUT

- COMPLETE THE FOLLOWING OPERATIONS BEFORE REQUESTING INSPECTION FOR CERTIFICATE OF COMPLETION:
  - CLEAN THE PROJECT SITE, YARD AND GROUNDS IN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES, INCLUDING LANDSCAPE DEVELOPMENT, AREAS OF RUBBISH, WASTE MATERIALS, LITTER AND FOREIGN SUBSTANCES. SWEEP PAVED AREAS BROOM CLEAN. REMOVE PETRO-CHEMICAL SPILLS, STAINS AND OTHER FOREIGN DEPOSITS. RAKE GROUNDS THAT ARE NEITHER PLANTED NOR PAVED TO A SMOOTH, EVEN-TEXTURED SURFACE.
  - REMOVE TOOLS, CONSTRUCTION EQUIPMENT, MACHINERY, AND SURPLUS MATERIAL FROM THE SITE.
  - REMOVE SNOW AND ICE TO PROVIDE SAFE ACCESS TO THE SITE AND EQUIPMENT BUILDING.
  - CLEAN EXPOSED EXTERIOR AND INTERIOR HARD-SURFACED FINISHES TO A DIRT-FREE CONDITION, FREE OF STAINS, FILMS AND SIMILAR FOREIGN SUBSTANCES. AVOID DISTURBING NATURAL WEATHERING OF EXTERIOR SURFACES.
  - REMOVE DEBRIS FROM LIMITED ACCESS SPACES, INCLUDING ROOFS, EQUIPMENT BUILDING, MANHOLES AND SIMILAR SPACES.
  - REMOVE LABELS THAT ARE NOT PERMANENT LABELS.
  - TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES AND SURFACES. REPLACE FINISHES AND SURFACES THAT CAN NOT BE SATISFACTORILY BE REPAIRED OR RESTORED, OR THAT SHOW EVIDENCE OF REPAIR OR RESTORATION. DO NO PAINT OVER "UL" AND SIMILAR LABELS, INCLUDING ELECTRICAL NAME PLATES.
  - LEAVE THE PROJECT CLEAN AND READY FOR OCCUPANCY.
  - DUST OFF ALL EQUIPMENT, INCLUDING BATTERY PACKS, WITHIN EQUIPMENT BUILDING.
  - GENERAL CONTRACTOR TO CLEAN AND APPLY STATIC-FREE WAX TO THE FLOORS ONCE FINAL SHELTER EQUIPMENT AND ACCESSORIES ARE COMPLETED.
- REMOVAL OF PROTECTION

REMOVE TEMPORARY PROTECTION AND FACILITIES INSTALLED DURING CONSTRUCTION TO PROTECT PREVIOUSLY COMPLETED INSTALLATIONS DURING THE REMAINDER OF THE CONSTRUCTION PERIOD.

PER VILLAGE OF SUSSEX:

TOUCH UP PAINTING ON THE TOWER AFTER INSTALLATION NEEDS TO BE COMPLETED BY THE VILLAGE'S MAINTENANCE CONTRACTOR WITH THE BILL FOR THE COSTS GOING TO VERIZON

DIVISION 2: SITE WORK

SECTION 02200 - EARTHWORK AND DRAINAGE

PART 1 - GENERAL

- WORK INCLUDED - SEE SITE PLAN
- DESCRIPTIONS

ACCESS DRIVE WITH TURN-AROUND AREA, LEASE AREA, AND, IF APPLICABLE, UNDERGROUND UTILITY EASEMENTS ARE TO BE CONSTRUCTED TO PROVIDE A WELL-DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.

QUALITY ASSURANCE

- APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS (AS NEEDED).
- APPLY AND MAINTAIN GRASS SEED AS RECOMMENDED BY THE SEED PRODUCER (AS NEEDED).
- PLACE AND MAINTAIN VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT, AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.

SEQUENCING

- CONFIRM SURVEY STAKES AND SET ELEVATIONS STAKES PRIOR TO ANY CONSTRUCTION.
- COMPLETELY GRUB THE ACCESS DRIVE WITH TURN-AROUND, UNDERGROUND UTILITY EASEMENTS (IF APPLICABLE), AND LEASE AREA PRIOR TO FOUNDATION CONSTRUCTION, PLACEMENT OF BACKFILL AND SUB-BASE MATERIAL.
- CONSTRUCT TEMPORARY CONSTRUCTION AREA ALONG ACCESS DRIVE.
- BRING THE LEASE AREA AND ACCESS DRIVE WITH TURN-AROUND TO BASE COURSE ELEVATION PRIOR TO INSTALLING FOUNDATION.
- APPLY SOIL STERILIZER PRIOR TO PLACING BASE MATERIALS SUCH THAT THE STERILIZER ONLY COMES IN CONTACT WITH PROPOSED GRAVEL SURFACES
- GRADE, SEED, FERTILIZE, AND MULCH ALL AREAS DISTURBED BY CONSTRUCTION (INCLUDING UNDERGROUND UTILITIY EASEMENTS) IMMEDIATELY AFTER BRINGING LEASE AND ACCESS DRIVE WITH TURN-AROUND TO BASE COURSE ELEVATION. WATER TO ENSURE GROWTH.
- REMOVE GRAVEL FROM TEMPORARY CONSTRUCTION ZONE TO AN AUTHORIZED AREA OR AS DIRECTED BY THE PROJECT MANAGER.
- AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO STONE SURFACES.

SUBMITTALS

- BEFORE CONSTRUCTION
  - IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO (2) COPIES OF THE LANDSCAPE PLAN UNDER NURSERY LETTERHEAD. IF LANDSCAPE ALLOWANCE WAS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS ON NURSERY LETTERHEAD. REFER TO PLANS FOR LANDSCAPING REQUIREMENTS.
  - PLACE FILL OR STONE IN SIX (6) INCH MAXIMUM LIFTS, AND COMPACT BEFORE PLACING NEXT LIFT.
- AFTER CONSTRUCTION
  - MANUFACTURER'S DESCRIPTION OF PRODUCT AND WARRANTY STATEMENT ON SOIL STERILIZED.
  - MANUFACTURER'S DESCRIPTION OF PRODUCT ON GRASS SEED AND FERTILIZER.
  - LANDSCAPING WARRANTY STATEMENT.

WARRANTY

- IN ADDITION TO THE WARRANTY ON ALL CONSTRUCTION COVERED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPAIR ALL DAMAGE AND RESTORE AREA AS CLOSE TO ORIGINAL CONDITION AS POSSIBLE AT SITE AND SURROUNDINGS.
- SOIL STERILIZATION APPLICATION TO GUARANTEE VEGETATION FREE ROAD AND SITE AREAS FOR ONE YEAR FOM DATE OF FINAL INSPECTION.
- DISTURBED AREAS WILL REFLECT GROWTH OF NEW GRASS PRIOR TO FINAL INSPECTION.
- LANDSCAPING, IF INCLUDED WITHIN THE SCOPE OF THE CONTRACT, WILL BE GUARANTEED FOR ONE YEAR FROM THE DATE OF FINAL INSPECTION.

DIVISION 2: SITE WORK (CONTINUED)

SECTION 02200 - EARTHWORK AND DRAINAGE (CONTINUED)

PART 2 - PRODUCTS

MATERIALS

- ROAD AND SITE MATERIALS SHALL CONFORM TO DOT SPECIFICATIONS (UNLESS OTHERWISE NOTED). ACCEPTABLE SELECT FILL SHALL BE IN ACCORDANCE WITH STATE DEPARTMENT OF HIGHWAY AND TRANSPORTATION STANDARD SPECIFICATIONS.
- SOIL STABILIZED FABRIC SHALL BE MIRAFI - 500X.

PART 3 - EXECUTION

PREPARATION

- CLEAR TREES, BRUSH AND DEBRIS FROM LEASE AREA, ACCESS DRIVE WITH TURN-AROUND, AND UNDERGROUND UTILITY EASEMENTS AS REQUIRED FOR CONSTRUCTION.
- PRIOR TO OTHER EXCAVATION AND CONSTRUCTION, GRUB ORGANIC MATERIAL TO A MINIMUM OF SIX (6) INCHES BELOW GRADE.
- UNLESS OTHERWISE INSTRUCTED BY LEASEE, TRANSPORT ALL REMOVED TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED LANDFILL.
- PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
- WHERE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, LINE THE AREAS WITH A STABILIZED MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.
- PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, REMOVE SOFT SPOTS, PLACE SELECT FILL, AND COMPACT TO 95% MODIFIED PROCTOR.

INSTALLATION

- GRADE OR FILL THE LEASE AREA AND ACCESS DRIVE WITH TURN-AROUND AS REQUIRED IN ORDER THAT UPON DISTRIBUTION OF SPOILS RESULTING FROM EXCAVATIONS, THE RESULTING GRADE WILL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM BENCHMARK, FINISHED GRADES, OR INDICATED SLOPES.
- CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF PROJECT AREA UNLESS AUTHORIZED BY PROJECT MANAGER AND AGREED TO BY LANDOWNER.
- BRING THE ACCESS DRIVE WITH TURN-AROUND TO BASE COURSE ELEVATION TO FACILITATE CONSTRUCTION AND OBSERVATION DURING CONSTRUCTION OF THE SITE.
- AVOID CREATING DEPRESSIONS WHERE WATER MAY POND.
- THE CONTRACT SHALL INCLUDE GRADING, BANKING, AND DITCHING, UNLESS OTHERWISE NOTED.
- WHEN IMPROVING AN EXISTING ACCESS DRIVE, GRADE THE EXISTING DRIVE TO REMOVE ANY ORGANIC MATTER AND SMOOTH THE SURFACE BEFORE PLACING FILL OR STONE.
- THE TOP SURFACE COURSE SHALL EXTEND A MINIMUM OF ONE (1) FOOT BEYOND THE SITE FENCE, UNLESS OTHERWISE NOTED, AND SHALL COVER THE AREA AS INDICATED.
- NO SLOPES ARE TO BE GREATER THAN 3:1.
- APPLY RIP-RAP TO THE SIDES OF DITCHES AND DRAINAGE SWALES WHERE INDICATED ON THE DRAWINGS.
- RIP-RAP ENTIRE DITCH FOR SIX (6) FEET IN ALL DIRECTIONS AT CULVERT OPENINGS. (WHEN APPLICABLE)
- APPLY SEED, FERTILIZER, AND STRAW COVER TO ALL OTHER DISTURBED AREAS, DITCHES, AND DRAINAGE SWALES, NOT OTHERWISE RIP-RAPPED.
- UNDER NO CIRCUMSTANCES WILL DITCHES, SWALES, OR CULVERTS BE PLACED SO THAT THEY DIRECT WATER TOWARDS, OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SHELTER OR EQUIPMENT. IF DESIGNS OR ELEVATIONS ARE IN CONFLICT WITH THIS, ADVISE CONSTRUCTION MANAGER IMMEDIATELY.

CONSULTANT:



CLIENT:



GENERAL SPECIFICATIONS  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	G-002



DIVISION 2: SITE WORK (CONTINUED)

SECTION 02200 - EARTHWORK AND DRAINAGE (CONTINUED)

PART 2 - PRODUCTS (CONTINUED)

2. INSTALLATION (CONTINUED)

- N. IN DITCHES WITH SLOPES GREATER THAN 10%, MOUND DIVERSIONARY HEADWALLS IN THE DITCH AT AN ANGLE NO GREATER THAN 60° OFF THE DITCH LINE. RIP-RAP THE UPSTREAM SIDE OF THE HEADWALL AS WELL AS THE DITCH FOR SIX (6) FEET ABOVE THE CULVERT ENTRANCE.
- O. APPLY SEED AND FERTILIZER TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND LOOSEN THE SOIL.
- P. SOW SEED IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
- Q. ENSURE GROWTH OF SEEDED AND LANDSCAPED AREAS BY WATERING UP TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK THE BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

3. FIELD QUALITY CONTROL

COMPACT SOILS TO MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-1557. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE. INDICATE PERCENTAGE OF COMPACTION ACHIEVED ON AS-BUILT DRAWINGS.

4. PROTECTION

- A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1-2 INCHES, STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET WILL BE AN ACCEPTABLE ALTERNATE.
- B. ALL TREES PLACED IN CONJUNCTION WITH A LANDSCAPE CONTRACT WILL BE WRAPPED, TIED WITH HOSE PROTECTED WIRE, AND SECURED TO 2" x 2" x 4' - 0" WOODEN STAKES EXTENDING TWO-FEET INTO THE GROUND ON FOUR SIDES OF THE TREE.
- C. PROTECT ALL EXPOSED AREAS AGAINST WASHOUTS AND SOIL EROSION. ALL EROSION CONTROL METHODS SHALL CONFORM TO APPLICABLE BUILDING CODE REQUIREMENTS.

DIVISION 16: UTILITY

SECTION 16050 - BASIC UTILITY MATERIALS AND METHODS

1. CONTRACTOR SHALL REVIEW THE CONTRACT DOCUMENTS PRIOR TO ORDERING THE UTILITY EQUIPMENT AND STARTING THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT/ENGINEER LISTING ANY DISCREPANCIES OR CONFLICTING INFORMATION.
2. UTILITY PLANS, DETAILS AND DIAGRAMS ARE DIAGRAMMATIC ONLY. VERIFY EXACT LOCATIONS AND MOUNTING HEIGHTS OF UTILITY EQUIPMENT WITH OWNER PRIOR TO INSTALLATION.
3. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, JUNCTION BOX, SWITCH BOX, ETC. THE TYPE OF TAGGING METHODS SHALL BE IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (O.S.H.A.).
4. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN GOOD WORKING CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED "J" WHERE APPLICABLE. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, NBFU AND "UL" LISTED.
5. ALL CONDUIT SHALL HAVE A PULL CORD.
6. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE UTILITY "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.

PAINTING NOTES:

PAINTING SPECIFICATIONS:

1. THE FOLLOWING PAINTING SPECIFICATIONS & REQUIREMENTS SHALL BE CONSIDERED TYPICAL, UNLESS OTHER SPECIFICATIONS ARE PROVIDED BY THE TANK OWNER.
2. CONTRACTOR IS RESPONSIBLE FOR CLEANING AND TEMP COATING BOTH SIDES OF ALL WELDED OR DAMAGED COATING SURFACES.
- A. CLEAN ALL WELDS OR DAMAGED COATING SURFACES TO SSPC-SP11 "POWER TOOL CLEANING TO BARE METAL" AND FEATHER BACK THE EDGES 2" INTO TIGHTLY ADHERED COATING.
- B. APPLY ONE SPOT PRIME COAT WITH REQUIRED PRIMER AT 4-6 MILS DFT PER COAT. IF TEMPERATURES ARE EXPECTED TO REMAIN BELOW 50 DEGREES, TEMPORARILY COAT WITH COLD GALVANIZING SPRAY TO HOLD THE METAL UNTIL WEATHER CONDITIONS ARE FAVORABLE FOR FULL COATING.
3. CONTRACTOR SHALL ALSO PRIME AND PAINT ALL WELDED EXTERIOR RAILINGS AND PENETRATIONS TO EXTERIOR SURFACE PAINTING SPEC. ANY NON-GALVANIZED ANTENNA MOUNTS & MAST PIPES ARE ALSO REQUIRED TO BE PAINTED.
4. EXTERIOR SURFACE PAINTING REQUIREMENTS:
- A. EXTERIOR SURFACES TO BE PAINTED SHALL BE CLEANED TO SSPC-SP11 "POWER TOOL CLEANING TO BARE METAL" AND FEATHER BACK THE EDGES 2" INTO TIGHTLY ADHERED COATING.
- B. THE EXTERIOR SURFACE PAINT SYSTEM SHALL BE TWO PRIME COATS OF REQUIRED PRIMER AT 4-6 MILS DFT PER COAT AND ONE FINISH COAT OF PAINT TO 3 MILS DFT.
- C. THE THREE-COAT SYSTEM SHALL BE APPLIED AT 3.0 - 6.0 MILS PER COAT, TO AN OVERALL THICKNESS OF 11.0 - 15.0 MILS.
- D. EXTERIOR FINISH SHALL BE TNESEC SERIES 72, COLOR: TANK WHITE.
5. INTERIOR WET PAINTING REQUIREMENTS:
- A. THE FOLLOWING RECOMMENDATIONS SHALL BE CONSIDERED TYPICAL FOR ALL WET INTERIOR REPAIRS UNLESS OTHER SPECIFICATIONS ARE PROVIDED BY THE TANK OWNER.
- B. WET INTERIOR COATING REPAIRS SHALL BE MADE FROM A SANITIZED RAFT. AFTER COATING IS COMPLETE, THE RESERVOIR SHALL BE DRAINED AND CLEANED.
- C. INTERIOR WET SURFACES TO BE PAINTED SHALL BE CLEANED TO SSPC-SP11 "POWER TOOL CLEANING TO BARE METAL" AND FEATHER BACK THE EDGES 2" INTO TIGHTLY ADHERED COATING..
- D. THE INTERIOR WET SURFACE PAINT SYSTEM SHALL BE TNESEC SERIES N140F AT 16.0 - 20.0 MILS DFT.
6. COORDINATE PAINTING SCHEDULE WITH TOWER OWNER. IF APPLICABLE, PAINT ALL THE NEW STEEL IN A SHOP SETTING, PRIOR TO DELIVERY TO THE SITE.
7. FOLLOW ALL PAINT MANUFACTURERS' RECOMMENDATIONS WHEN USING THEIR PRODUCTS. CONTACT PAINT MANUFACTURER TO OBTAIN SUITABLE SURFACE PREPARATION SYSTEM FOR PROPOSED SURFACE.

PER VILLAGE OF SUSSEX:

TOUCH UP PAINTING ON THE TOWER AFTER INSTALLATION NEEDS TO BE COMPLETED BY THE VILLAGE'S MAINTENANCE CONTRACTOR WITH THE BILL FOR THE COSTS GOING TO VERIZON

WATER TANKS BUILT PRIOR TO 1978 ARE MORE LIKELY TO HAVE LEAD BASED COATINGS. ORIGINAL WATER TOWER DRAWINS ARE DATED MAY, 1995

IT IS RECOMMENDED THAT THE CONTRACTOR SHOULD TEST FOR LEAD AND USE THE APPROPRIATE PPE WHEN WELDING, CUTTING OR GRINDING ON THIS TANK.

CONSULTANT:



CLIENT:

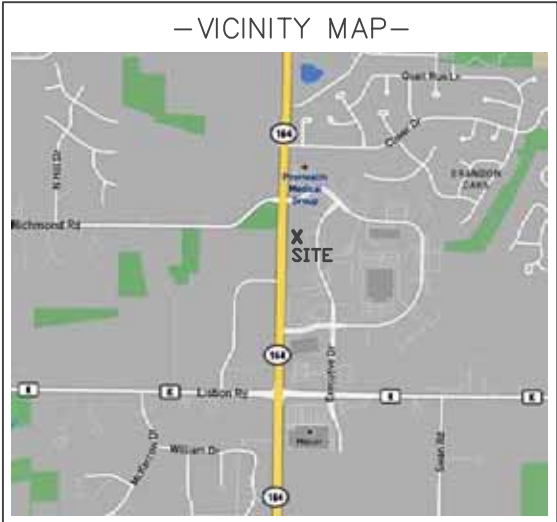
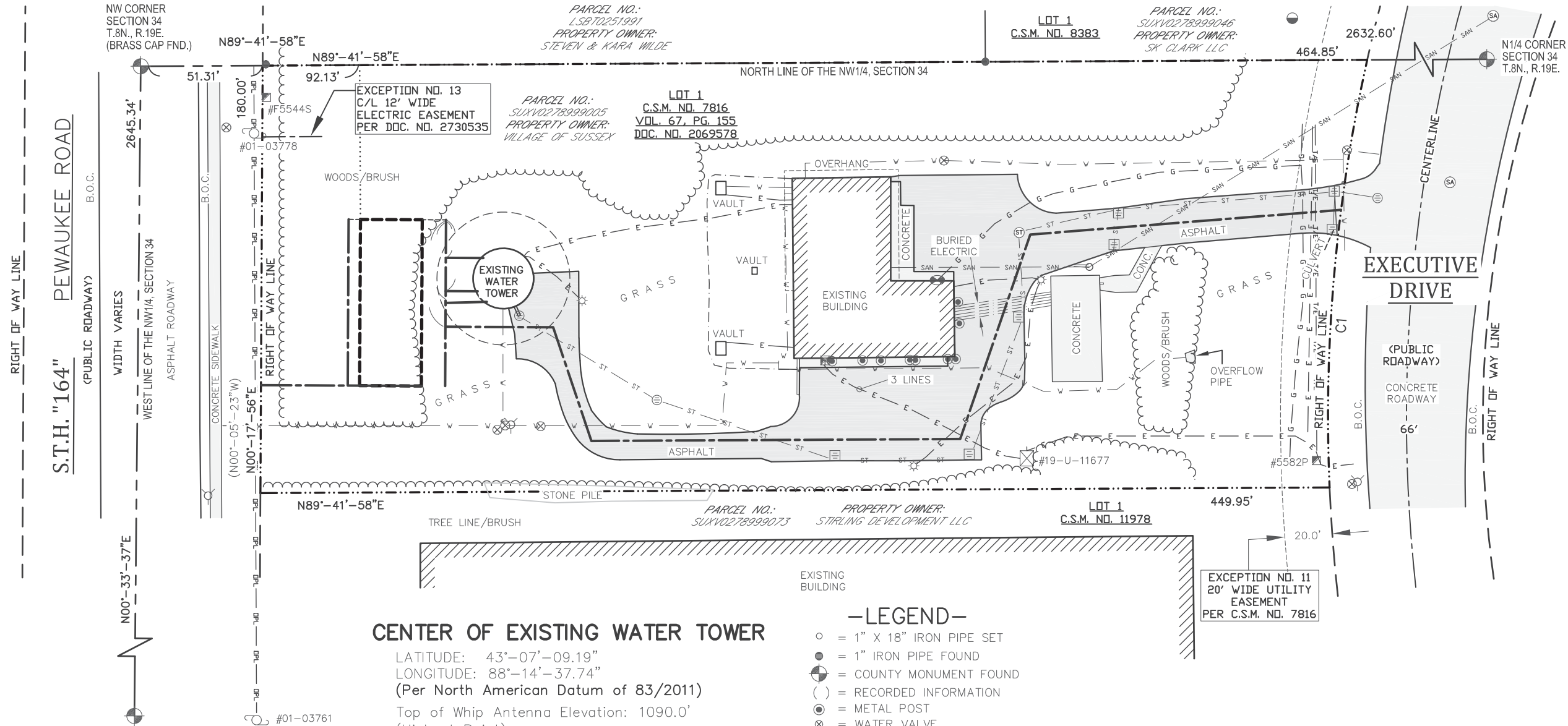


GENERAL SPECIFICATIONS  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

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CV	10/06/22	REV. A
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CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	G-003



### CENTER OF EXISTING WATER TOWER

LATITUDE: 43°-07'-09.19"  
LONGITUDE: 88°-14'-37.74"  
(Per North American Datum of 83/2011)  
Top of Whip Antenna Elevation: 1090.0'  
(Highest Point)  
Top of Water Tower Elevation: 1081.9'  
Top of Vent Elevation: 1081.6'  
Paint Ring Elevation: 1028.5'  
Paint Ring Elevation: 1023.6'  
Ground Elevation: 960.0'  
(Per North American Vertical Datum of 1988)

#### SURVEYOR'S CERTIFICATE

I, Steven C. DeJong, Professional Land Surveyor of Meridian Surveying, LLC, certify that I have surveyed the described property and that the map shown is a true and accurate representation thereof to the best of my knowledge and belief.

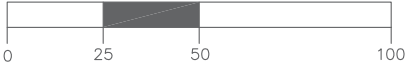
Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

WISCONSIN PROFESSIONAL LAND SURVEYOR  
Steven C. DeJong, S-2791

### -LEGEND-

- = 1" X 18" IRON PIPE SET
- = 1" IRON PIPE FOUND
- ⊙ = COUNTY MONUMENT FOUND
- ( ) = RECORDED INFORMATION
- ⊗ = METAL POST
- ⊗ = WATER VALVE
- ⊗ = FIRE HYDRANT
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- W — W — = WATER MAIN
- G — G — = BURIED GAS LINE
- ~~~~~ = EDGE OF BRUSH/WOODS
- — — = PROPERTY LINE
- ⊗ = EXISTING TREE

GRAPHIC SCALE  
1 inch = 50 ft.



CURVE TABLE					
Curve #	Radius	Length	Delta	Chord	
C1	691.50'	181.29	015°01'16"	S5°01'36"W	180.77'

#### SURVEY NOTES:

-THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN.

-DIGGERS HOTLINE TICKET NO. 20220903237.

-PRIVATE UTILITIES MARKED ON 3-07-2022.

-THIS IS NOT A BOUNDARY SURVEY OF THE PARENT PARCEL. THIS SURVEY REPRESENTS THE LEASE AREA AND EASEMENTS ONLY.

-ACCORDING TO THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD MAPS, THE EXISTING TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", FIRM PANEL NO. 55133C0201G, DATED NOVEMBER 05 2014, AND IS NOT IN A SPECIAL FLOOD HAZARD AREA. ZONE "X" IS DESIGNATED AS: "AREA OF MINIMAL FLOOD HAZARD".

#### WETLAND NOTE:

-THE PRESENCE AND LOCATION OF WETLANDS HAS NOT BEEN DETERMINED ON THIS PROPERTY. WETLANDS SHOULD ONLY BE DETERMINED BY ACTUAL FIELD DELINEATION PERFORMED BY A QUALIFIED WETLAND SPECIALIST.

SURVEYED FOR:

**Edge**  
Consulting Engineers, Inc.  
624 Water Street  
Prairie du Sac, WI 53578  
608.644.1449 voice  
608.644.1549 fax  
www.edgeconsult.com

SURVEYED FOR:

**verizon**  
1515 WOODFIELD ROAD  
SUITE 1400  
SCHAUMBURG, IL 60173

**MERIDIAN**  
SURVEYING, LLC  
N9637 Friendship Drive Office: 920-993-0881  
Kaukauna, WI 54130 Fax: 920-273-6037

SITE NAME:  
HWY 164 & K

SITE NUMBER:  
557386

SITE ADDRESS:  
W249N5889 EXECUTIVE DRIVE  
SUSSEX, WI 53089

PROPERTY OWNER:  
VILLAGE OF SUSSEX  
N64W23760 MAIN STREET  
SUSSEX, WI 53089

PARCEL NO.: SUXV0278999005

ZONED: I1-INSTITUTIONAL DISTRICT

DEED REFERENCE: DOC. NO. 2089161

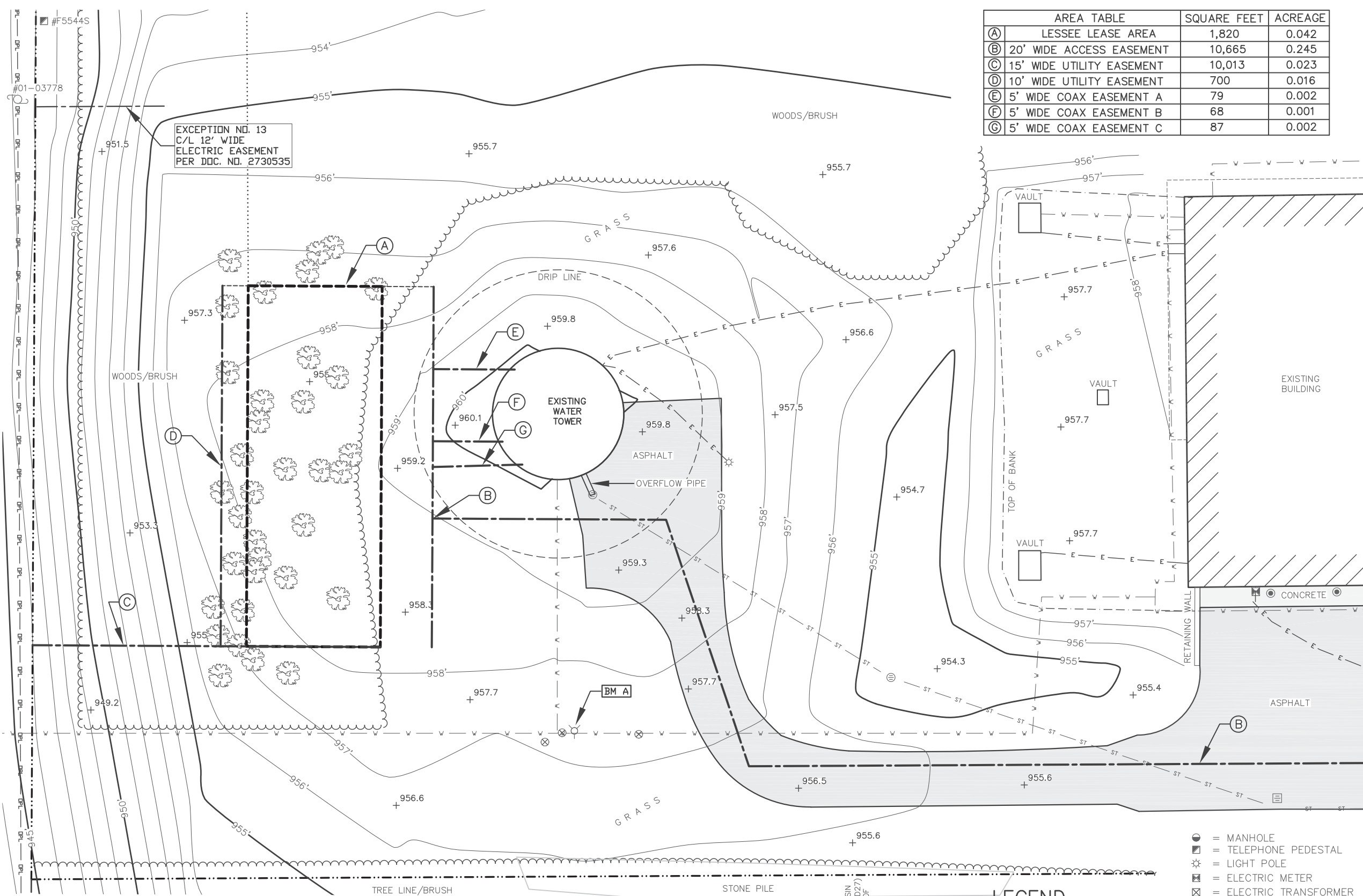
### LEASE EXHIBIT

FOR  
VERIZON WIRELESS PERSONAL  
COMMUNICATIONS LP d/b/a VERIZON WIRELESS  
BEING A PART OF THE NW1/4 OF THE  
NW1/4, SECTION 34, T.8N., R.19E.,  
VILLAGE OF SUSSEX,  
WAUKESHA COUNTY, WISCONSIN

8	8-4-23	Revised Easements	JB
7	7-27-23	Revised Easements	JB
6	5-5-23	Revised Lease & Easements	JD
5	12-5-22	Revised Easements	JB
4	10-26-22	Added Tree Info	JB
3	10-14-22	Added Lease & Easements	JB

DRAWN BY: J.D.	FIELD WORK DATE: 3-7-22
CHECKED BY: S.C.D.	FIELD BOOK: P-308, PG. 5
JOB NO.: 13505	SHEET 1 OF 5





	AREA TABLE	SQUARE FEET	ACREAGE
(A)	LESSEE LEASE AREA	1,820	0.042
(B)	20' WIDE ACCESS EASEMENT	10,665	0.245
(C)	15' WIDE UTILITY EASEMENT	10,013	0.023
(D)	10' WIDE UTILITY EASEMENT	700	0.016
(E)	5' WIDE COAX EASEMENT A	79	0.002
(F)	5' WIDE COAX EASEMENT B	68	0.001
(G)	5' WIDE COAX EASEMENT C	87	0.002

EXCEPTION NO. 13  
C/L 12' WIDE  
ELECTRIC EASEMENT  
PER DOC. NO. 2730535

SURVEYED FOR:

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624 Water Street  
Prairie du Sac, WI 53578  
608.644.1449 voice  
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SURVEYED FOR:

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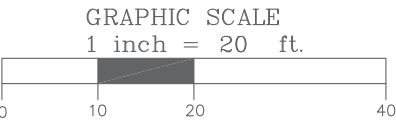
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SURVEYOR'S CERTIFICATE  
I, Steven C. DeJong, Professional Land Surveyor  
of Meridian Surveying, LLC., certify that I have surveyed the  
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representation thereof to the best of my knowledge and belief.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

WISCONSIN PROFESSIONAL LAND SURVEYOR  
Steven C. DeJong, S-2791

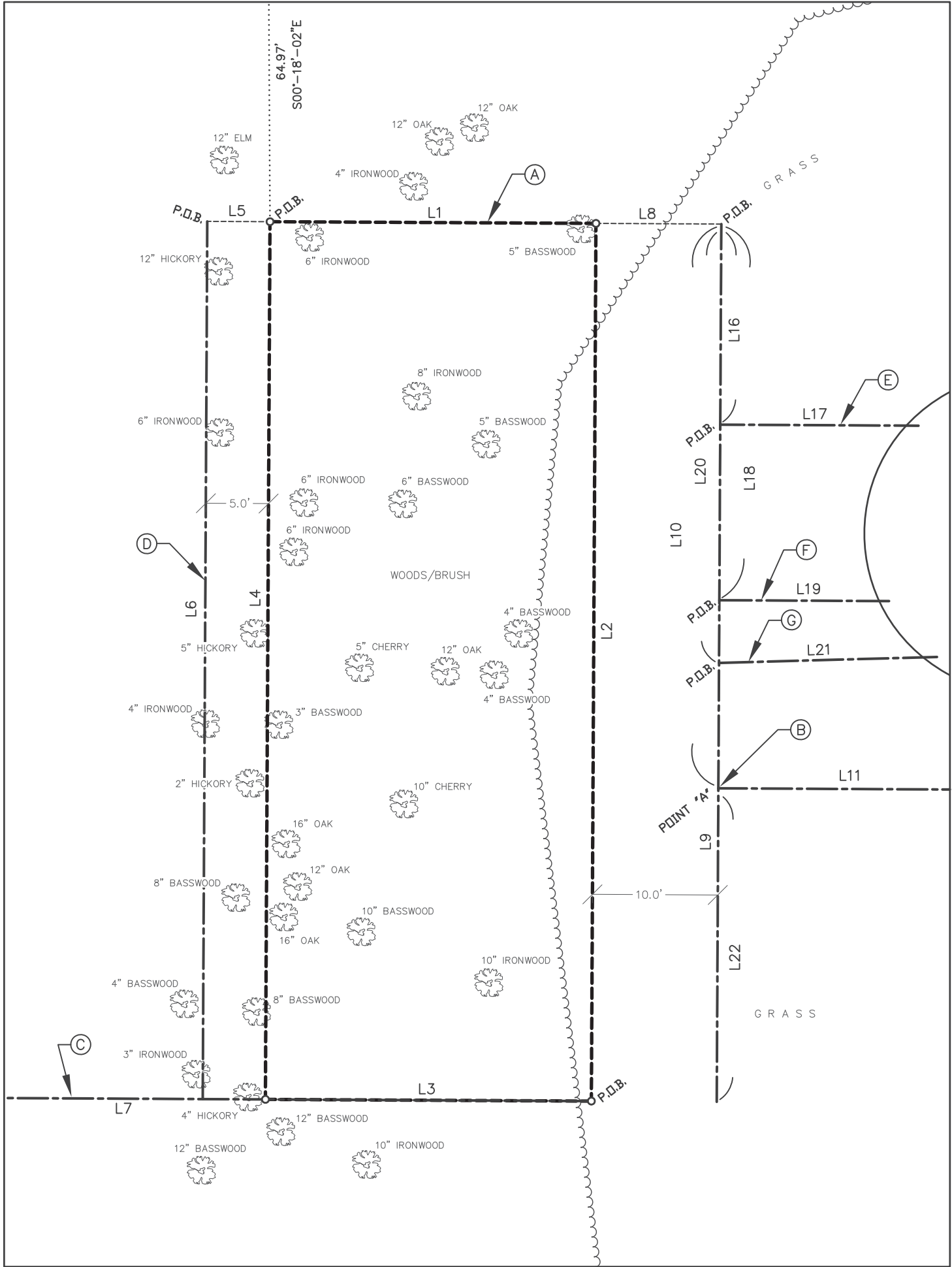
BENCHMARK INFORMATION  
SITE BENCHMARK: (BM A)  
CHISELED "X" ON TOP OF FLANGE BOLT OF  
HYDRANT NEXT TO OPEN ARROW ON NW SIDE  
ELEVATION: 959.20'



BEARINGS REFERENCED TO THE WISCONSIN  
STATE PLANE COORDINATE SYSTEM (NAD27)  
- SOUTH ZONE AND THE NORTH LINE OF  
THE NW1/4, SECTION 34, T.8N., R.19E.,  
WHICH BEARS: N89°-41'-58"E

**-LEGEND-**

- = 1" X 18" IRON PIPE SET
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—LEGEND—

- = 1" X 18" IRON PIPE SET
- = 1" IRON PIPE FOUND
- ⊙ = COUNTY MONUMENT FOUND
- ( ) = RECORDED INFORMATION
- ⦿ = METAL POST
- ⊗ = WATER VALVE
- ⚓ = FIRE HYDRANT
- Ⓢ = STORM MANHOLE
- ⊖ = STORM INLET (ROUND)
- ⊞ = STORM INLET (SQUARE)
- = MANHOLE
- = TELEPHONE PEDESTAL
- ⚡ = LIGHT POLE
- ⊞ = ELECTRIC METER
- ⊞ = ELECTRIC TRANSFORMER
- ⚡ = EXISTING POWER POLE
- B.O.C. = BACK OF CURB
- ST — ST — = STORM SEWER MAIN
- SAN — SAN — = SANITARY SEWER MAIN
- E — E — = BURIED ELECTRIC
- DPL — DPL — = OVERHEAD ELECTRIC
- T/E — T/E — = BURIED ELEC. & TELE.
- W — W — = WATER MAIN
- G — G — = BURIED GAS LINE
- ~~~~~ = EDGE OF BRUSH/WOODS
- - - - - = PROPERTY LINE
- 🌳 = EXISTING TREE

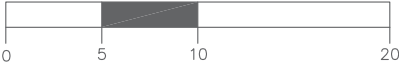
SURVEYOR'S CERTIFICATE

I, Steven C. DeJong, Professional Land Surveyor  
of Meridian Surveying, LLC., certify that I have surveyed the  
described property and that the map shown is a true and accurate  
representation thereof to the best of my knowledge and belief.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

WISCONSIN PROFESSIONAL LAND SURVEYOR  
Steven C. DeJong, S-2791

GRAPHIC SCALE  
1 inch = 10 ft.



SURVEYED FOR:

**Edge**  
Consulting Engineers, Inc.  
624 Water Street  
Prairie du Sac, WI 53578  
608.644.1449 voice  
608.644.1549 fax  
www.edgaconsult.com

SURVEYED FOR:

**verizon**

1515 WOODFIELD ROAD  
SUITE 1400  
SCHAUMBURG, IL 60173

**MERIDIAN**  
SURVEYING, LLC

N9637 Friendship Drive Office: 920-993-0881  
Kaukauna, WI 54130 Fax: 920-273-6037

SITE NAME:  
HWY 164 & K

SITE NUMBER:  
557386

SITE ADDRESS:  
W249N5889 EXECUTIVE DRIVE  
SUSSEX, WI 53089

PROPERTY OWNER:

VILLAGE OF SUSSEX  
N64W23760 MAIN STREET  
SUSSEX, WI 53089

PARCEL NO.: SUXV0278999005

ZONED: I1-INSTITUTIONAL DISTRICT

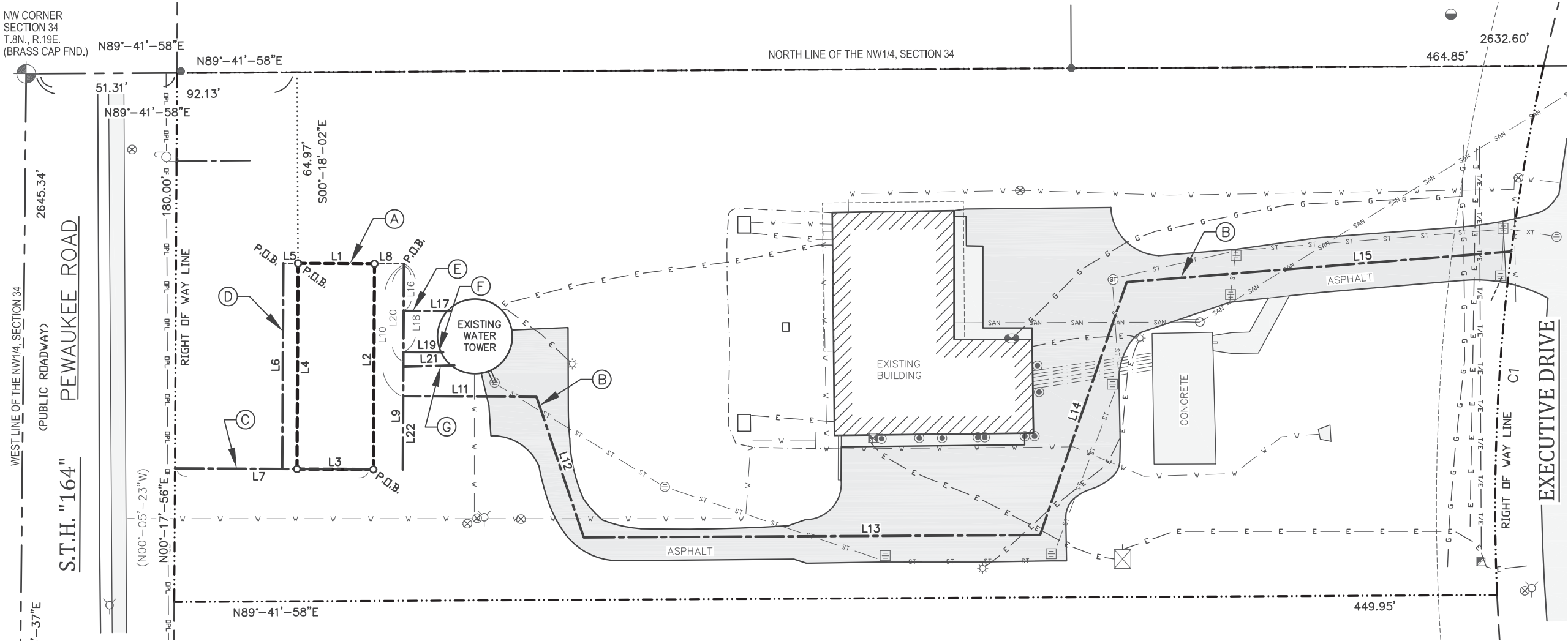
DEED REFERENCE: DOC. NO. 2089161

LEASE EXHIBIT

FOR  
VERIZON WIRELESS PERSONAL  
COMMUNICATIONS LP d/b/a VERIZON WIRELESS  
BEING A PART OF THE NW1/4 OF THE  
NW1/4, SECTION 34, T.8N., R.19E.,  
VILLAGE OF SUSSEX,  
WAUKESHA COUNTY, WISCONSIN

8	8-4-23	Revised Easements	JB
7	7-27-23	Revised Easements	JB
6	5-5-23	Revised Lease & Easements	JD
5	12-5-22	Revised Easements	JB
4	10-26-22	Added Tree Info	JB
3	10-14-22	Added Lease & Easements	JB

DRAWN BY: J.D.	FIELD WORK DATE: 3-7-22
CHECKED BY: S.C.D.	FIELD BOOK: P-308, PG. 5
JOB NO.: 13505	SHEET 3 OF 5



NW CORNER  
SECTION 34  
T.8N., R.19E.  
(BRASS CAP FND.)

WEST LINE OF THE NW 1/4, SECTION 34  
(PUBLIC ROADWAY)

PEWAUKEE ROAD

S.T.H. "164"

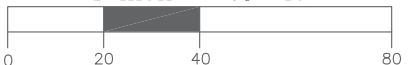
N00°-33'-37"E

W1/4 CORNER  
SECTION 34  
T.8N., R.19E.

—LEGEND—

- = 1" X 18" IRON PIPE SET
- = 1" IRON PIPE FOUND
- ⊙ = COUNTY MONUMENT FOUND
- ( ) = RECORDED INFORMATION
- ⊗ = METAL POST
- ⊕ = WATER VALVE
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- ⊙ = STORM INLET (SQUARE)
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- G — G — = BURIED GAS LINE
- — — = EDGE OF BRUSH/WOODS
- — — = PROPERTY LINE
- ⊙ = EXISTING TREE

GRAPHIC SCALE  
1 inch = 40 ft.



AREA TABLE		SQUARE FEET	ACREAGE
(A)	LESSEE LEASE AREA	1,820	0.042
(B)	20' WIDE ACCESS EASEMENT	10,665	0.245
(C)	15' WIDE UTILITY EASEMENT	10,013	0.023
(D)	10' WIDE UTILITY EASEMENT	700	0.016
(E)	5' WIDE COAX EASEMENT A	79	0.002
(F)	5' WIDE COAX EASEMENT B	68	0.001
(G)	5' WIDE COAX EASEMENT C	87	0.002

CURVE TABLE					
Curve #	Radius	Length	Delta	Chord	
C1	691.50'	181.29	015°01'16"	S5°01'36"W	180.77'

LINE TABLE		
Line #	Direction	Length
L1	S89°42'04"E	26.00'
L2	S00°17'56"W	70.00'
L3	N89°42'04"W	26.00'
L4	N00°17'56"E	70.00'
L5	N89°42'04"W	5.00'
L6	S00°17'56"W	70.00'
L7	N89°42'04"W	67.50'
L8	S89°42'04"E	10.00'
L9	S00°17'56"W	70.00'
L10	S00°17'56"W	45.00'
L11	S89°42'04"E	45.34'
L12	S18°34'44"E	50.49'
L13	N89°41'58"E	155.20'
L14	N18°54'28"E	91.00'
L15	N85°27'03"E	131.21'
L16	S00°17'56"W	16.00'
L17	S89°42'04"E	15.81'
L18	S00°17'56"W	30.00'
L19	S89°42'04"E	13.54'
L20	S00°17'56"W	35.00'
L21	N88°26'13"E	17.39'
L22	S00°17'56"W	25.00'

SURVEYOR'S CERTIFICATE

I, Steven C. DeJong, Professional Land Surveyor of Meridian Surveying, LLC., certify that I have surveyed the described property and that the map shown is a true and accurate representation thereof to the best of my knowledge and belief.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

WISCONSIN PROFESSIONAL LAND SURVEYOR  
Steven C. DeJong, S-2791

BEARINGS REFERENCED TO THE WISCONSIN  
STATE PLANE COORDINATE SYSTEM (NAD27)  
— THE SOUTH ZONE AND THE NORTH LINE OF  
THE NW 1/4, SECTION 34, T.8N., R.19E.,  
WHICH BEARS: N89°-41'-58"E

SURVEYED FOR:

**Edge**  
Consulting Engineers, Inc.  
624 Water Street  
Prairie du Sac, WI 53578  
608.644.1449 voice  
608.644.1549 fax  
www.edgaconsult.com

SURVEYED FOR:

**verizon**  
1515 WOODFIELD ROAD  
SUITE 1400  
SCHAUMBURG, IL 60173

**MERIDIAN**  
SURVEYING, LLC  
N9637 Friendship Drive Office: 920-993-0881  
Kaukauna, WI 54130 Fax: 920-273-6037

SITE NAME:  
HWY 164 & K

SITE NUMBER:  
557386

SITE ADDRESS:  
W249N5889 EXECUTIVE DRIVE  
SUSSEX, WI 53089

PROPERTY OWNER:  
VILLAGE OF SUSSEX  
N64W23760 MAIN STREET  
SUSSEX, WI 53089

PARCEL NO.: SUXXV0278999005

ZONED: I1-INSTITUTIONAL DISTRICT

DEED REFERENCE: DOC. NO. 2089161

**LEASE EXHIBIT**  
FOR  
VERIZON WIRELESS PERSONAL  
COMMUNICATIONS LP d/b/a VERIZON WIRELESS  
BEING A PART OF THE NW 1/4 OF THE  
NW 1/4, SECTION 34, T.8N., R.19E.,  
VILLAGE OF SUSSEX,  
WAUKESHA COUNTY, WISCONSIN

8	8-4-23	Revised Easements	JB
7	7-27-23	Revised Easements	JB
6	5-5-23	Revised Lease & Easements	JD
5	12-5-22	Revised Easements	JB
4	10-26-22	Added Tree Info	JB
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DRAWN BY: J.D.	FIELD WORK DATE: 3-7-22
CHECKED BY: S.C.D.	FIELD BOOK: P-308, PG. 5
JOB NO.: 13505	SHEET 4 OF 5



LESSEE LEASE AREA

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 1,820 SQUARE FEET (0.042 ACRES) OF LAND AND BEING DESCRIBED BY:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET TO THE POINT OF BEGINNING; THENCE S89°42'-04"E 26.00 FEET; THENCE S00°-17'-56"W 70.00 FEET; THENCE N89°-42'-04"W 26.00 FEET; THENCE N00°-17'-56"E 70.00 FEET TO THE POINT OF BEGINNING; BEING SUBJECT TO ANY AND ALL EASEMENTS AND RESTRICTIONS OF RECORD.

20 FOOT WIDE LESSEE ACCESS EASEMENT

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 10,665 SQUARE FEET (0.245 ACRES) OF LAND AND BEING TEN (10) FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE S89°-42'-04"E 36.00 FEET TO THE POINT OF BEGINNING; THENCE S00°-17'-56"W 45.00 FEET TO A POINT HEREIN AFTER REFERRED TO AS POINT "A"; THENCE CONTINUING S00°-17'-56"W 25.00 FEET TO THE POINT OF TERMINATION. ALSO BEGINNING AT SAID POINT "A"; THENCE S89°-42'-04"E 45.34 FEET; THENCE S18°-34'-44"E 50.49 FEET; THENCE N89°-41'-58"E 155.20 FEET; THENCE N18°-54'-28"E 91.00 FEET; THENCE N85°-27'-03"E 131.21 FEET TO A POINT ON THE WEST LINE OF EXECUTIVE DRIVE AND THE POINT OF TERMINATION. THE SIDE LOT LINES OF SAID EASEMENT ARE TO BE SHORTENED OR LENGTHENED TO TERMINATE AT THE WEST LINE OF SAID EXECUTIVE DRIVE.

15 FOOT WIDE UTILITY EASEMENT

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 10,013 SQUARE FEET (0.023 ACRES) OF LAND AND BEING 7.50 FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE S89°42'-04"E 26.00 FEET; THENCE S00°-17'-56"W 70.00 FEET TO THE POINT OF BEGINNING; THENCE N89°-42'-04"W 67.50 FEET TO A POINT ON THE EAST LINE STATE HIGHWAY 164 AND THE POINT OF TERMINATION. THE SIDE LOT LINES OF SAID EASEMENT ARE TO BE SHORTENED OR LENGTHENED TO TERMINATE AT SAID EAST LINE OF STATE HIGHWAY 164.

10 FOOT WIDE UTILITY EASEMENT

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 700 SQUARE FEET (0.016 ACRES) OF LAND AND BEING FIVE (5) FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE N89°42'-04"W 5.00 FEET TO THE POINT OF BEGINNING; THENCE S00°-17'-56"W 70.00 FEET TO THE POINT OF TERMINATION.

5 FOOT WIDE COAX EASEMENT (A)

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 79 SQUARE FEET (0.002 ACRES) OF LAND AND BEING 2.50 FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE S89°42'-04"E 36.00 FEET; THENCE S00°-17'-56"W 16.00 FEET TO THE POINT OF BEGINNING; THENCE S89°-42'-04"E 14.83 FEET TO THE POINT OF TERMINATION.

5 FOOT WIDE COAX EASEMENT (B)

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 68 SQUARE FEET (0.001 ACRES) OF LAND AND BEING 2.50 FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE S89°42'-04"E 36.00 FEET; THENCE S00°-17'-56"W 30.00 FEET TO THE POINT OF BEGINNING; THENCE S89°-42'-04"E 12.75 FEET TO THE POINT OF TERMINATION.

5 FOOT WIDE COAX EASEMENT (C)

BEING A PART OF LOT 1 OF CERTIFIED SURVEY MAP NO. 7816, RECORDED IN VOLUME 67 OF CERTIFIED SURVEY MAPS ON PAGES 155-166 AS DOCUMENT NO. 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS FOR WAUKESHA COUNTY; LOCATED IN THE NORTHWEST QUARTER (NW1/4) OF THE NORTHWEST QUARTER (NW1/4) OF SECTION THIRTY-FOUR (34), TOWNSHIP EIGHT (8) NORTH, RANGE NINETEEN (19) EAST, VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN CONTAINING 87 SQUARE FEET (0.002 ACRES) OF LAND AND BEING 2.50 FEET EACH SIDE OF AND PARALLEL WITH THE FOLLOWING DESCRIBED LINE:

COMMENCING AT THE NORTHWEST CORNER OF SAID SECTION 34; THENCE N89°-41'-58"E 92.13 FEET ALONG THE NORTH LINE OF THE NW1/4 OF SAID SECTION 34; THENCE S00°-18'-02"E 64.97 FEET; THENCE S89°42'-04"E 36.00 FEET; THENCE S00°-17'-56"W 35.00 FEET TO THE POINT OF BEGINNING; THENCE N88°-26'-13"E 17.39 FEET TO THE POINT OF TERMINATION.

PARENT PARCEL

ALL THAT PARCEL OF LAND IN THE VILLAGE OF SUSSEX IN THE COUNTY OF WAUKESHA AND STATE OF WISCONSIN AS MORE FULLY DESCRIBED IN DEED DOCUMENT NUMBER 2089161 AND PARCEL # SUXV0278999005, BEING KNOWN AND DESIGNATED AS:

LOT 1 OF CSM 7816, RECORDED IN VOLUME 67, PAGES 155-162 AS DOCUMENT 2069578 IN THE OFFICE OF THE REGISTER OF DEEDS, WAUKESHA COUNTY.

EXCEPTING AND RESERVING THEREFROM THAT PROPERTY CONVEYED FROM VILLAGE OF SUSSEX TO STEVEN O. DABLE AND MICHELLE OLSON BY DEED DATED 11/25/1997 AND RECORDED 12/18/1997, DOC # 2273429, WAUKESHA COUNTY RECORDS.

PARCEL NUMBER: SUXV0278999005

BEING THE SAME PROPERTY ACQUIRED BY THE VILLAGE OF SUSSEX BY DEED OF MLI/SCC LIMITED PARTNERSHIP, DATED 11/21/1995 AND RECORDED 12/22/1995 IN DOCUMENT NUMBER : 2089161

TITLE REPORT REVIEW

TITLE REPORT: AMC SETTLEMENT SERVICES

COMMITMENT NO. 50024312

EFFECTIVE DATE: MARCH 29, 2023

FEE SIMPLE TITLE VESTED IN: VILLAGE OF SUSSEX

NOTE: THE STATEMENT OF APPLICABILITY REFERS TO THE LEASE SITE AND ANY EASEMENTS PERTINENT THEREUNTO WHERE SPECIFIC ENCUMBRANCES AFFECT THE LEASE SITE AND/OR A PERTINENT EASEMENT, THEY ARE IDENTIFIED AS SUCH.

SCHEDULE B-II


- (1-7)THESE ARE GENERAL STATEMENTS AND NOT SPECIFIC ENCUMBRANCES AND OTHERWISE NON-SURVEY RELATED ITEMS.
- (8) SUBJECT TO AWARD OF DAMAGES BY WAUKESHA COUNTY BOARD OF SUPERVISORS TO COUNTY HIGHWAY COMMITTEE FOR IMPROVEMENT OF COUNTY TRUNK HIGHWAY "J" RECORDED 07/06/1970 IN DOCUMENT NUMBER 764021, WAUKESHA COUNTY RECORDS. **THIS DESCRIBES THE PRESENT DAY RIGHT OF WAY FOR S.T.H. 164 (PEWAUKEE ROAD). PLOTTED AND SHOWN.**
- (9) SUBJECT TO DECLARATION OF PROTECTIVE COVENANTS FOR SUSSEX CORPORATE CENTER BY MOONEY LESAVAGE INVESTMENTS, INC., AS GENERAL PARTNER OF, AND ON BEHALF OF, MLI/SCC LIMITED PARTNERSHIP AND MLI/TRAPP LIMITED PARTNERSHIP DATED 09/08/1995 AND RECORDED 09/27/1995 IN DOCUMENT NUMBER 2069577, WAUKESHA COUNTY RECORDS. **DOES APPLY BUT IS NOT A SURVEY RELATED MATTER.**
- (10) SUBJECT TO ANY MATTERS AS MAY BE SHOWN ON CERTIFIED SURVEY MAP NO. 7815 DATED 09/13/1995 AND RECORDED 09/27/1995 IN DOCUMENT NUMBER 2069576, WAUKESHA COUNTY RECORDS. **ALL EASEMENT AND ENCUMBRANCES, IF ANY, ARE PLOTTED AND SHOWN.**
- AFFIDAVIT OF CORRECTION FOR CERTIFIED SURVEY MAP NO. 7815 DATED 02/21/1996 AND RECORDED 04/01/1996 IN DOCUMENT NUMBER 2112246, WAUKESHA COUNTY RECORDS.
- (11) SUBJECT TO ANY MATTERS AS MAY BE SHOWN ON CERTIFIED SURVEY MAP NO. 7816 DATED 09/14/1995 AND RECORDED 09/27/1995 IN DOCUMENT NUMBER 2069578, WAUKESHA COUNTY RECORDS. **ALL EASEMENT AND ENCUMBRANCES, IF ANY, ARE PLOTTED AND SHOWN.**
- (12) SUBJECT TO GRANT OF EASEMENT FOR ELECTRIC, GAS AND COMMUNICATION SERVICE FROM MLI/SCC LIMITED PARTNERSHIP AND MLI/TRAPP LIMITED PARTNERSHIP TO WISCONSIN ELECTRIC POWER COMPANY, WISCONSIN BELL, INC. AND WISCONSIN GAS COMPANY DATED 09/14/1995 AND RECORDED 09/27/1995 IN DOCUMENT NUMBER 2069579, WAUKESHA COUNTY RECORDS. **DOES NOT APPLY TO THE SUBJECT PROPERTY.**
- (13) SUBJECT TO OVERHEAD DISTRIBUTION EASEMENT FROM VILLAGE OF SUSSEX TO WISCONSIN ELECTRIC POWER COMPANY DATED 11/27/2001 AND RECORDED 12/10/2001 IN DOCUMENT NUMBER 2730535, WAUKESHA COUNTY RECORDS. **DOES APPLY AND IS PLOTTED AND SHOWN.**
- (14) SUBJECT TO ENROLLED ORDINANCE 158-22, AMENDMENT TO WAUKESHA COUNTY STREET AND HIGHWAY WIDTH MAP BY THE COUNTY BOARD OF SUPERVISORS OF THE COUNTY OF WAUKESHA RECORDED 09/18/2003 IN DOCUMENT NUMBER 3067628, WAUKESHA COUNTY RECORDS. **DOES APPLY BUT IS NOT A SURVEY RELATED MATTER.**

SURVEYED FOR:



**Edge**  
Consulting Engineers, Inc.  
624 Water Street  
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608.644.1449 voice  
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SURVEYED FOR:



1515 WOODFIELD ROAD  
SUITE 1400  
SCHAUMBURG, IL 60173



**MERIDIAN**  
SURVEYING, LLC

N9637 Friendship Drive  
Kaukauna, WI 54130

Office: 920-993-0881  
Fax: 920-273-6037

SITE NAME:  
HWY 164 & K

SITE NUMBER:  
557386

SITE ADDRESS:  
W249N5889 EXECUTIVE DRIVE  
SUSSEX, WI 53089

PROPERTY OWNER:  
VILLAGE OF SUSSEX  
N64W23760 MAIN STREET  
SUSSEX, WI 53089

PARCEL NO.: SUXV0278999005

ZONED: I1-INSTITUTIONAL DISTRICT

DEED REFERENCE: DOC. NO. 2089161

LEASE EXHIBIT			
FOR VERIZON WIRELESS PERSONAL COMMUNICATIONS LP d/b/a VERIZON WIRELESS			
BEING A PART OF THE NW1/4 OF THE NW1/4, SECTION 34, T.8N., R.19E., VILLAGE OF SUSSEX, WAUKESHA COUNTY, WISCONSIN			
8	8-4-23	Revised Easements	JB
7	7-27-23	Revised Easements	JB
6	5-5-23	Revised Lease & Easements	JD
5	12-5-22	Revised Easements	JB
4	10-26-22	Added Tree Info	JB
3	10-14-22	Added Lease & Easements	JB

DRAWN BY: J.D.	FIELD WORK DATE: 3-7-22
CHECKED BY: S.C.D.	FIELD BOOK: P-308, PG. 5
JOB NO.: 13505	SHEET 5 OF 5



EXCAVATION & CONSTRUCTION NOTES:

SOIL EROSION AND SEDIMENTATION CONTROLS/ BEST MANAGEMENT PRACTICES:  
TO PREVENT ANY NEGATIVE IMPACT TO THE SENSITIVE RECEPTORS, SEDIMENT AND  
EROSION CONTROL MEASURES, SUCH AS SILT FENCES, STRAW WATTLES, AND OTHER  
STORM-WATER BEST MANAGEMENT PRACTICES, MUST BE IMPLEMENTED PRIOR TO  
AND MAINTAINED THROUGHOUT CONSTRUCTION

STAGING AND STOCKPILING RESTRICTIONS:  
CONSTRUCTION RELATED STAGING AND STOCKPILING OF SOILS AND EQUIPMENT MAY  
NOT OCCUR IN THE VICINITY OF THE SENSITIVE RECEPTORS OR IN A MANNER THAT  
WILL CAUSE IMPACTS

SEE "NOTICE TO CONTRACTOR" DOCUMENTS AT THE END OF THESE DRAWINGS FOR  
ADDITIONAL INFORMATION

ANY MUD, DIRT, OR DEBRIS TRACKED ONTO THE EXISTING ASPHALT DRIVE OR  
ADJACENT STREETS MUST BE CLEANED DAILY

CONSULTANT:



CLIENT:



**SITE PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW C-101**

UTILITY NOTE:

PER VILLAGE RESTRICTIONS; ALL  
UTILITIES ARE TO BE ROUTED FROM  
S.T.H. 164 SIDE OF THE PROPERTY

NOTE:

- FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT).  
PRIOR TO CONSTRUCTION, CONTACT DESIGNER FOR UPDATE.

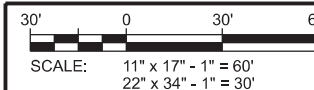


APPROX. SHELTER LOCATION

**A**

**AERIAL OVERVIEW OF SITE**

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S.T.H. 164

EXISTING POWER POLE

CONCRETE SIDEWALK

NOTE:

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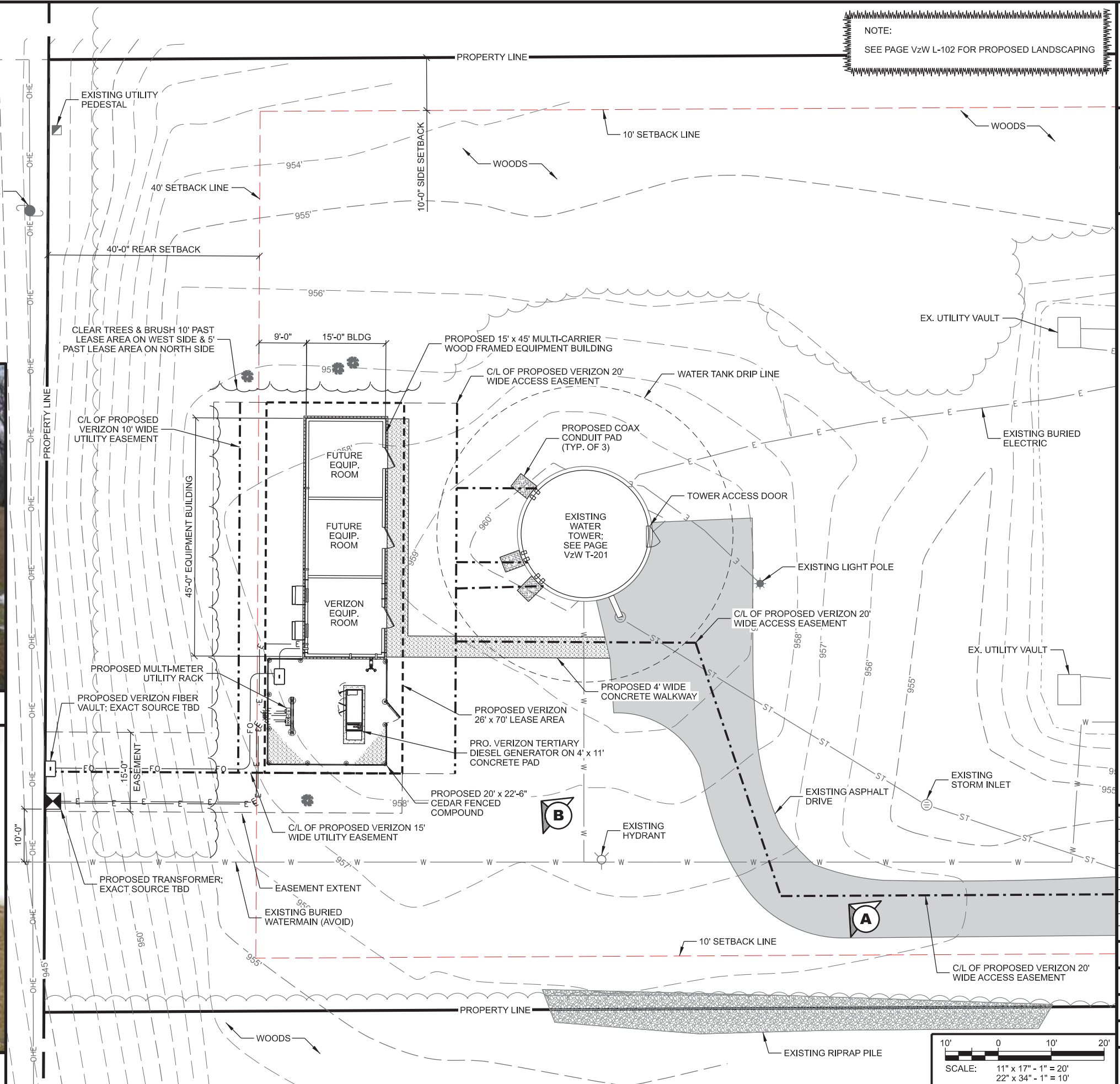
A

SITE OVERVIEW



B

PROPOSED BUILDING LOCATION



NOTE:  
SEE PAGE V2W L-102 FOR PROPOSED LANDSCAPING

CONSULTANT:

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624 WATER STREET  
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d/b/a VERIZON WIRELESS  
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TOWER 2, SUITE 400  
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**ENLARGED SITE PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

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CV	10/20/23	REV. I

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PCM

PLOT DATE:

10/20/2023

PROJECT NUMBER:

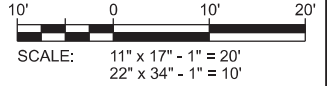
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SET TYPE:

DRAFT

SHEET NUMBER:

V2W C-102



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NORTH

NOTE:

EXTERIOR OF PROPOSED EQUIPMENT BUILDING TO MATCH EXISTING BUILDING. FINAL BRICK COLOR TO BE SELECTED BY THE VILLAGE PER MANUFACTURERS SAMPLES

C/L OF PROPOSED VERIZON 10' WIDE UTILITY EASEMENT

CLEAR TREES & BRUSH A MAXIMUM 10' BEYOND WEST SIDE OF LEASE AREA TO ACCOMMODATE BURIED UTILITIES AND GROUNDING

PROPOSED LANDSCAPING; SEE V2W L-102 FOR DETAILS

EASEMENT EXTENT

C/L OF PROPOSED VERIZON 15' WIDE UTILITY EASEMENT

PROPOSED VERIZON BURIED FIBER; SEE V2W E-102

PROPOSED VERIZON BURIED ELECTRIC; SEE V2W E-102

PROPOSED 15' x 45' MULTI-CARRIER WOOD FRAMED EQUIPMENT BUILDING

PRO. VERIZON 26'-0" LEASE AREA

PRO. 15'-0" BUILDING

PROPOSED VERIZON 26' x 70' LEASE AREA

FUTURE EQUIP. RM

FUTURE EQUIP. RM

PROPOSED VERIZON EQUIP. RM

PROPOSED TUBE ENTRY WITH 4" PORT FOR GPS CABLE(S)

PRO. BURIED CONDUITS FROM GENERATOR

PROPOSED VERIZON FIBER VAULT; SEE V2W E-102

PRO. MULTI-METER UTILITY RACK; SEE V2W E-504

(2) PROPOSED WALL MOUNTED GPS ANTENNAS; SEE V2W C-501 FOR DETAILS

PROPOSED VERIZON TERTIARY DIESEL GENERATOR ON 4' x 11' CONCRETE PAD; SEE PAGES V2W E-001 & E-002

PROPOSED 20'-0" x 22'-6" CEDAR FENCED COMPOUND; SEE V2W C-503

PRO. 22'-6" CEDAR COMPOUND

PRO. 20'-0" CEDAR COMPOUND

TANK DRIP LINE

PROPOSED 4' WIDE CONCRETE SIDE WALK; SEE V2W C-502 FOR DETAILS

(4) PROPOSED BURIED 6" DIA. SCH. 80 PVC CONDUITS (TYP.) FOR FUTURE CARRIER

C/L OF 5' WIDE COAX EASEMENT FOR POSSIBLE FUTURE CARRIER

(4) PROPOSED BURIED 6" DIA. SCH. 80 PVC CONDUITS (TYP.) FOR FUTURE CARRIER

C/L OF PROPOSED VERIZON 5' WIDE COAX EASEMENT

PROPOSED 4' WIDE CONCRETE SIDE WALK

C/L OF PROPOSED VERIZON 20' WIDE ACCESS EASEMENT

PROPOSED COAX CONDUIT STUB-UPS IN CONCRETE PAD AT TOWER BASE; (TYP. OF 3 LOCATIONS). SEE V2W C-501 FOR DETAILS

APPROX. LOCATION OF EXISTING TOWER INTERIOR CLIMB LADDER

EXISTING WATER TOWER; SEE PAGE V2W T-201

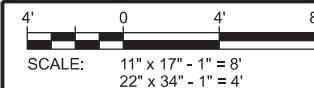
(4) PRO. 6" DIA. BELL PENETRATIONS (TYP. AT 3 LOCATIONS). SEE PAGE S-502 FOR DETAILS

OVERFLOW PIPE

ASPHALT TURNAROUND

MATCH TOP OF CONCRETE INTO ASPHALT

EXISTING BURIED WATERMAIN



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d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**COMPOUND PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:

PCM

PLOT DATE:

10/20/2023

PROJECT NUMBER:

32691

SET TYPE:

DRAFT

SHEET NUMBER:

**V2W C-103**





**COMPOUND NOTE:**

FENCED COMPOUND TO BE BE CONCRETE PER VILLAGE REQUIREMENTS. CONCRETE PAD TO BE 5" THICK AND EXTEND OUT TO THE FACE OF THE CEDAR FENCED COMPOUND; APPROX. 20'-0" x 22'-6". SEE PAGE VzW C-502 FOR DETAILS

INSTALL 1/2" EXPANSION JOINT AT BUILDING FOUNDATION.

EXTEND UTILITY RACK CONCRETE FOOTINGS A MIN. OF 3" ABOVE CONCRETE

SLEEVE ALL CONDUITS EXTENDING OUT OF THE CONCRETE PAD

POUR GENERATOR PAD SEPARATELY AND EXTEND 6" ABOVE CONCRETE COMPOUND PAD, SEE VzW E-101 FOR DETAILS

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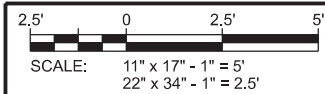
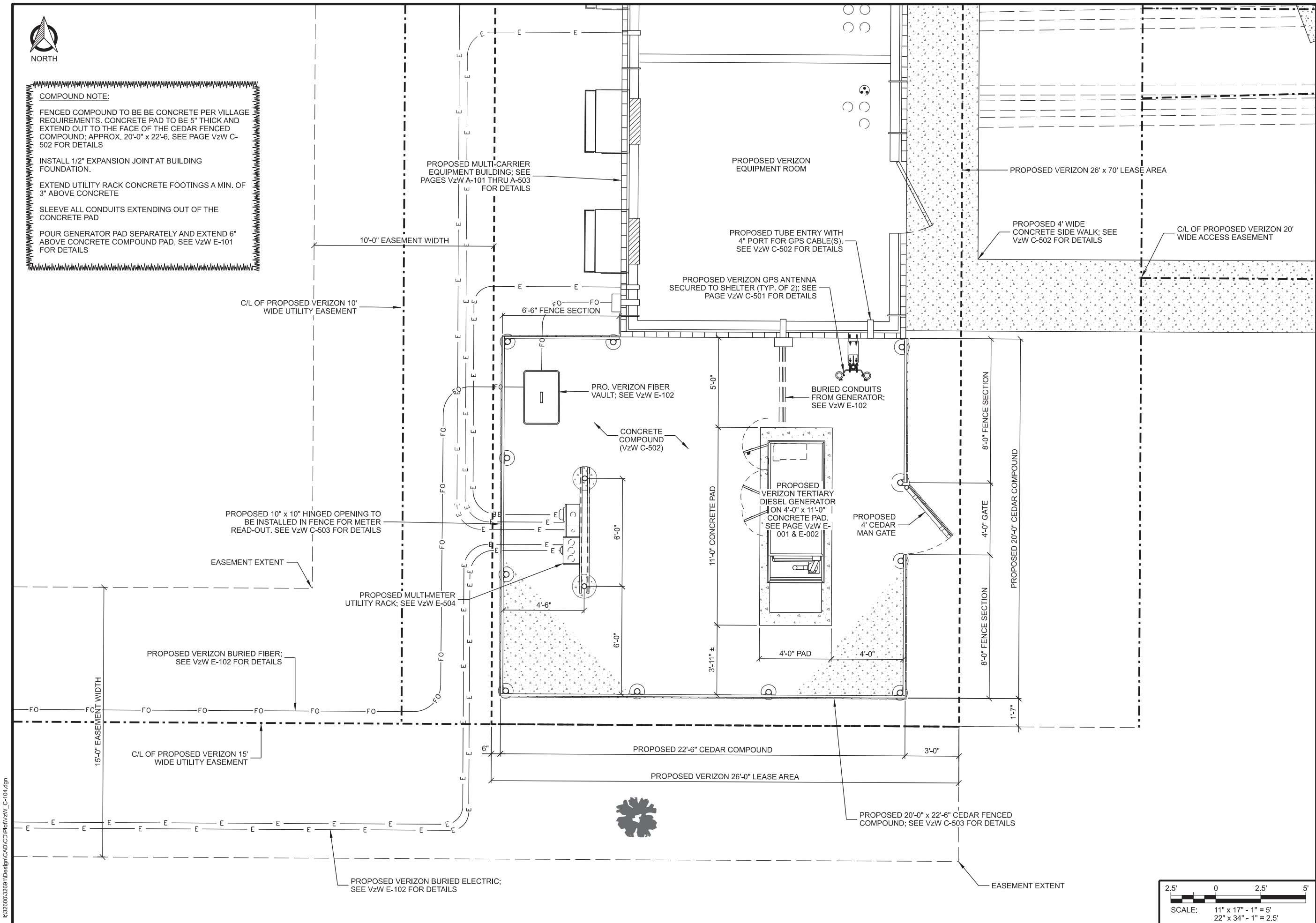
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TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**ENLARGED COMPOUND PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:		
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CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	<b>VzW C-104</b>

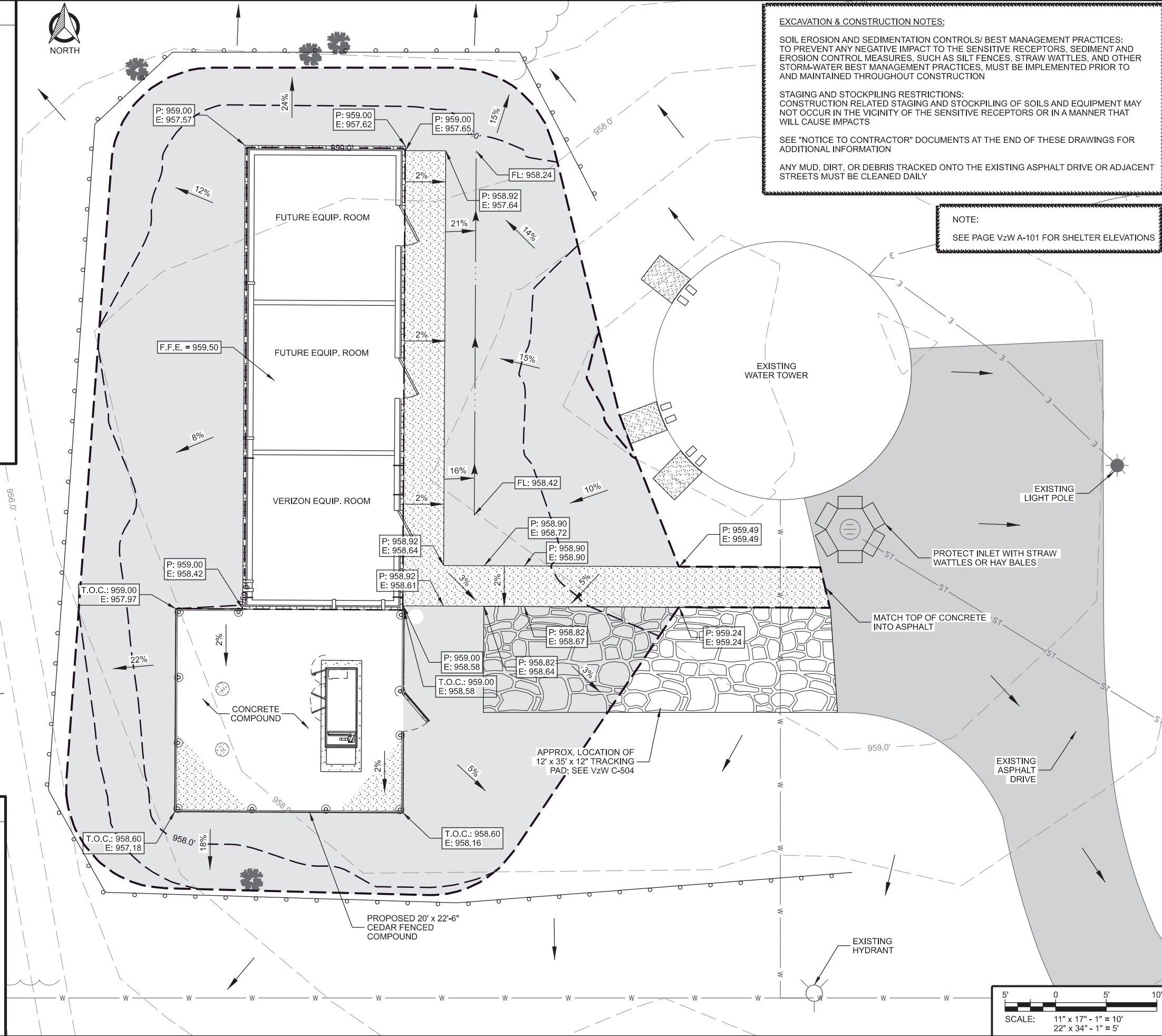


### GRADING NOTES: (THIS SHEET)

- CONTOUR INTERVAL IS 1 FOOT.
- PERIMETER CONTROLS AND STONE TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES. INCLUDING CLEARING AND GRUBBING OPERATIONS. STONE TRACKING PAD SHALL BE A 12'X35' MIN. CONSISTING OF 3" BREAKER STONE.
- CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES, BEYOND THOSE SHOWN IN THIS PLAN, SUITABLE FOR THEIR MEANS AND METHODS TO KEEP ALL SEDIMENT ON SITE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES IMPLEMENTATION OF SILT FENCE, EROSION BALES, TRACKING PADS, DIVERSION BERMS AND/OR OTHER APPROPRIATE DEVICES.
- CONTRACTOR SHALL GRADUALLY MATCH INTO EXISTING GRADE. NO PROPOSED EARTHWORK SHALL HAVE A GREATER SLOPE THAN 3:1. FINISHED SITE TO BE GRADED TO MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
- DRIVEWAY GRADE WITHIN 25 FEET OF PUBLIC ROAD ACCESS POINT SHALL BE LESS THAN 10% (10:1).
- FINISHED GRADE SLOPES GREATER THAN 4:1, DITCH BOTTOMS AND GRASS SURFACES WITHIN 6 FEET OF ANY PAVED OR GRAVEL SURFACE REQUIRE EROSION MAT (TYPE 2.D - 12 MONTH LONGEVITY, DOUBLE NET EROSION CONTROL BLANKET)
- ALL DISTURBED GRASS/TURF AREAS SHALL BE RESTORED WITH TOPSOIL, SEED AND MULCH. TOPSOIL TO BE 6-INCHES MINIMUM. SEED TO CONSIST OF NATIVE PURE LIVE SEED (PLS) AT 98% PURITY AND 95% GERMINATION. MULCH TO BE WEED-FREE GRAIN STRAW.
- CONTRACTOR TO PERFORM MAINTENANCE AND INSPECTION OF EROSION CONTROL DEVICES AND EXPOSED GRADE THROUGHOUT CONSTRUCTION. THE CONTRACTOR SHALL INSPECT THE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES ON A WEEKLY BASIS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT 0.5 INCHES OR GREATER WHICH RESULTS IN RUNOFF. CONTRACTOR SHALL CONTINUE MAINTENANCE AND INSPECTION UNTIL FULL VEGETATION ESTABLISHMENT AND/OR PROJECT ACCEPTANCE.
- CONTRACTOR TO REMOVE EROSION CONTROL MEASURES AFTER PROJECT ACCEPTANCE.
- SEE SHEET SURVEY FOR BENCHMARK LOCATIONS.

### LEGEND: (THIS SHEET)

- EXISTING CONTOUR GRADES
- PROPOSED CONTOUR GRADES
- SPOT ELEVATIONS  
P = PROPOSED ELEV.  
E = EXISTING ELEV.  
FL = FLOW LINE  
IE = INVERT ELEV.  
TOC = TOP OF CONC.
- PROPOSED DRAINAGE PATH
- SILT FENCE
- LIMITS OF DISTURBANCE
- EROSION MAT



### EXCAVATION & CONSTRUCTION NOTES:

SOIL EROSION AND SEDIMENTATION CONTROLS/ BEST MANAGEMENT PRACTICES: TO PREVENT ANY NEGATIVE IMPACT TO THE SENSITIVE RECEPTORS, SEDIMENT AND EROSION CONTROL MEASURES, SUCH AS SILT FENCES, STRAW WATTLES, AND OTHER STORM-WATER BEST MANAGEMENT PRACTICES, MUST BE IMPLEMENTED PRIOR TO AND MAINTAINED THROUGHOUT CONSTRUCTION

STAGING AND STOCKPILING RESTRICTIONS: CONSTRUCTION RELATED STAGING AND STOCKPILING OF SOILS AND EQUIPMENT MAY NOT OCCUR IN THE VICINITY OF THE SENSITIVE RECEPTORS OR IN A MANNER THAT WILL CAUSE IMPACTS

SEE "NOTICE TO CONTRACTOR" DOCUMENTS AT THE END OF THESE DRAWINGS FOR ADDITIONAL INFORMATION

ANY MUD, DIRT, OR DEBRIS TRACKED ONTO THE EXISTING ASPHALT DRIVE OR ADJACENT STREETS MUST BE CLEANED DAILY

### NOTE:

SEE PAGE V2W A-101 FOR SHELTER ELEVATIONS

CONSULTANT:

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**GRADING PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

### SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
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CV	02/27/23	REV. C
CV	05/08/23	REV. D
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CV	08/18/23	REV. F
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CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

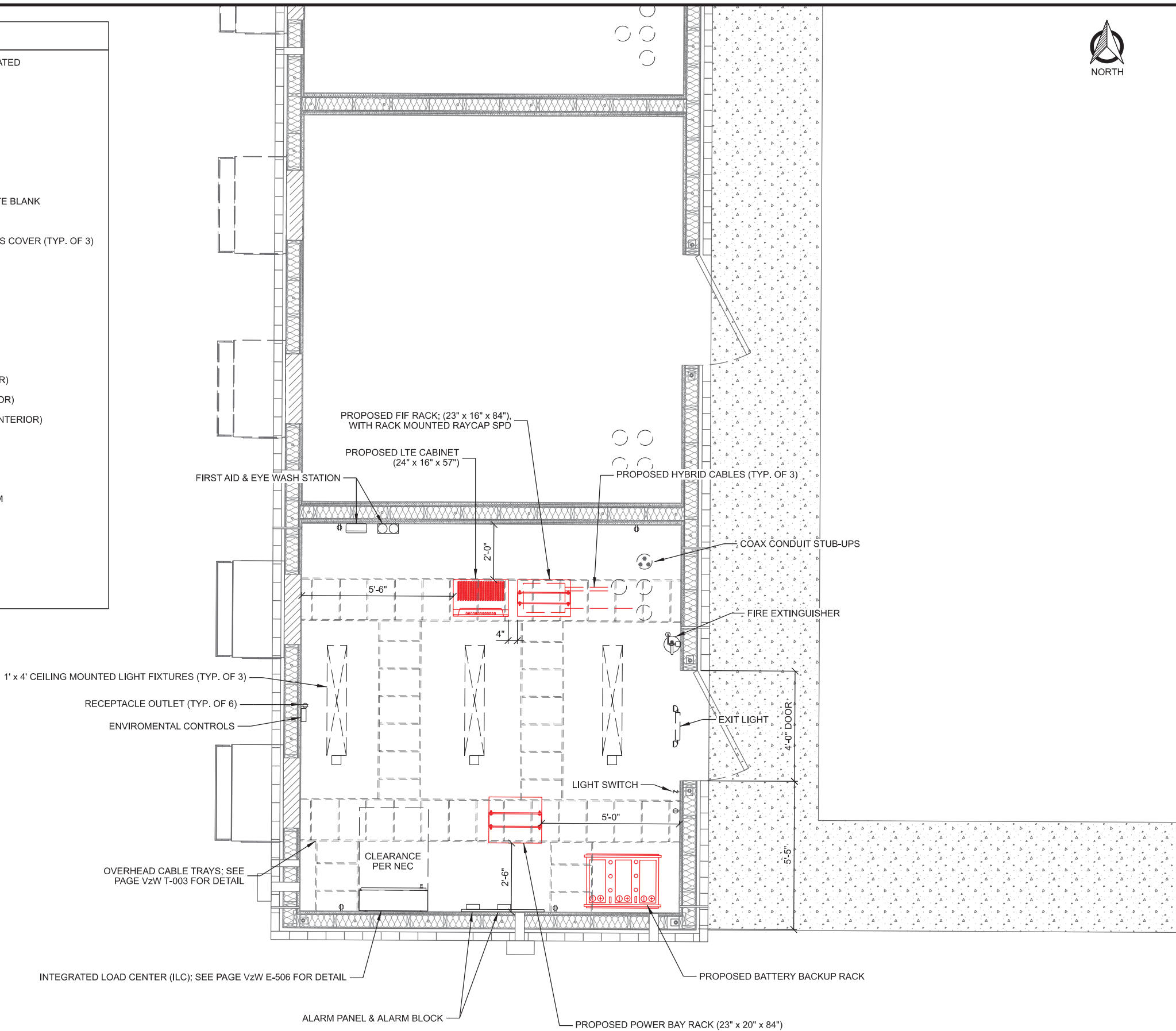
PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: V2W C-105

ITEM LIST

- DOOR, 4870 16 GA. GALV., W/ 161 PREP POLYSTYRENE INSULATION, 1.5 HOUR FIRE RATED
- DOOR LOCK
- LOCK GUARD, 5" x 7"
- PULL HANDLE
- DOOR STOP (BLACK RUBBER)
- MAGNETIC DOOR ALARM (SENTROL #1085-N) OR APPROVED EQUAL
- DOOR CLOSURE, 90°
- SIGN NFPA "SULFURIC ACID (BATTERIES) MSDS HZRD BLUE 3, RED 0, YELLOW 2, WHITE BLANK
- FIXTURE, LED EXIT/ FLOOD COMBO WITH RED LETTERS WHITE BOX
- FIXTURE, INTERIOR LIGHT, 32W, W/A 1 BULB 201 CORRIDOR SURFACE MOUNT W/ LENS COVER (TYP. OF 3)
- SWITCH 20AMP 120V SINGLE POLE AC TOGGLE. MOUNT 54" A.F.F.
- SWITCH 20AMP 120V TOGGLE W/ 2 SWITCH COVER IN 4X4 JUNCTION BOX
- 20AMP DUPLEX RECEPTACLE/ 4" X 4" J.B. MOUNT 18" ABOVE FINISHED FLOOR
- 4" X 4" J.B. (1/2" & 3/4" KNOCKOUT)
- SMOKE DETECTOR
- HIGH/ LOW TEMP AIR ALARM (#2E206) OR APPROVED EQUAL
- GROUND BAR 1/4" x 4" x 24" GALV. STEEL STAMPED "PROPERTY OF VERIZON" (MASTER)
- GROUND BAR 1/4" x 4" x 20" GALV. STEEL STAMPED "PROPERTY OF VERIZON" (INTERIOR)
- TELCO GROUND BAR 1/4" x 4" x 8" GALV. STEEL STAMPED "PROPERTY OF VERIZON" (INTERIOR)
- FIRE EXTINGUISHER, 10# CO2 W/ TAG
- EYE WASH STATION, 1QT. BOTTLE
- FIRST AID KIT
- 6" x 6" ALARM JUNCTION BOX. SUPPLIED AND INSTALLED BY ELECTRICIAN. ALL ALARM WIRING CONDUITS WILL JOIN HERE & BE ROUTED TO 66 PUNCH BLOCK
- DATA PUNCH DOWN BLOCK MOUNTED ON TELCO BOARD
- HIGH HUMIDTY ALARM (#2E453) OR APPROVED EQUAL
- INTEGRATED LOAD CENTER PANEL
- 18" WIDE CABLE TRAY



CONSULTANT:

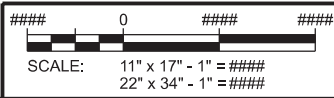
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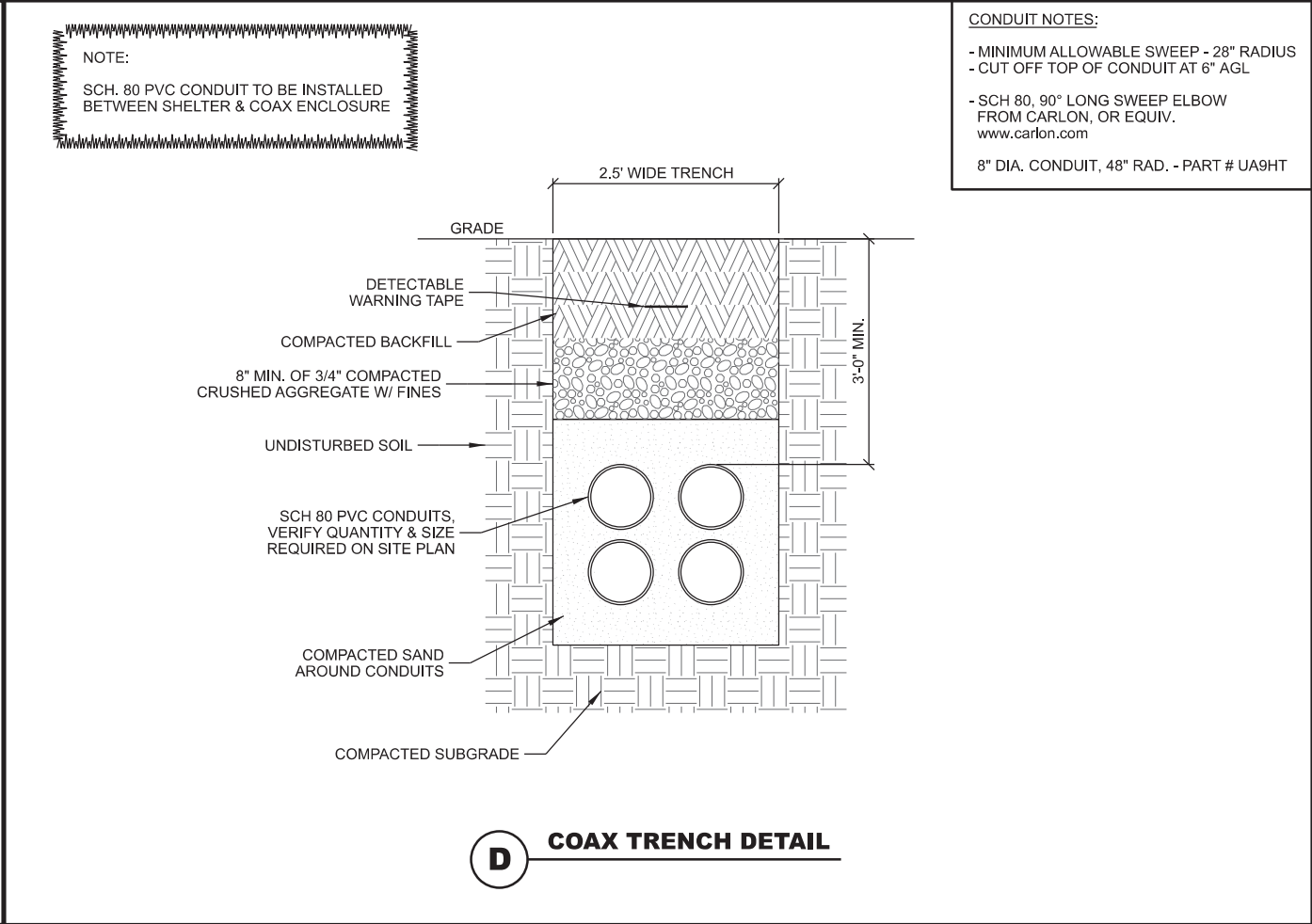
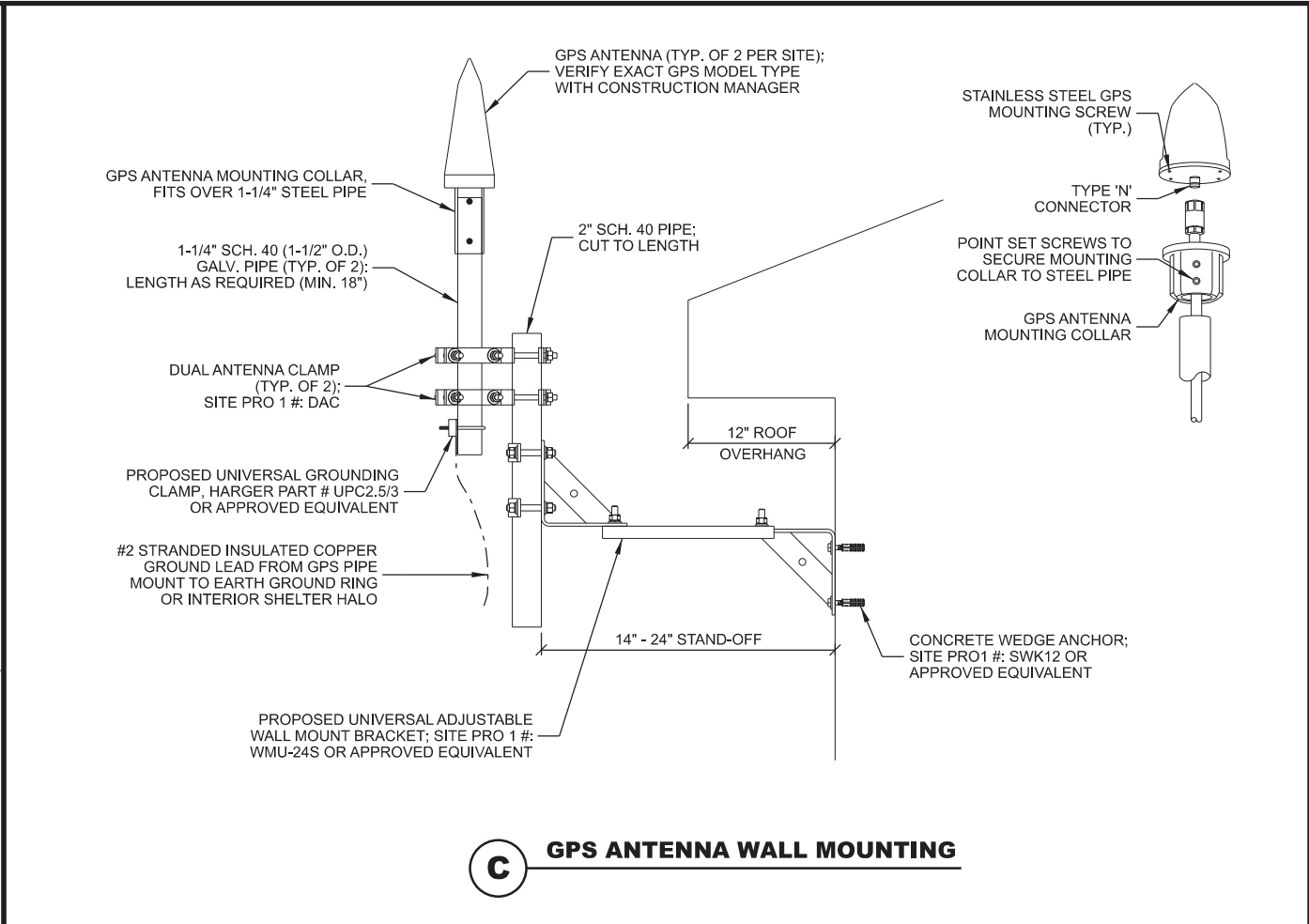
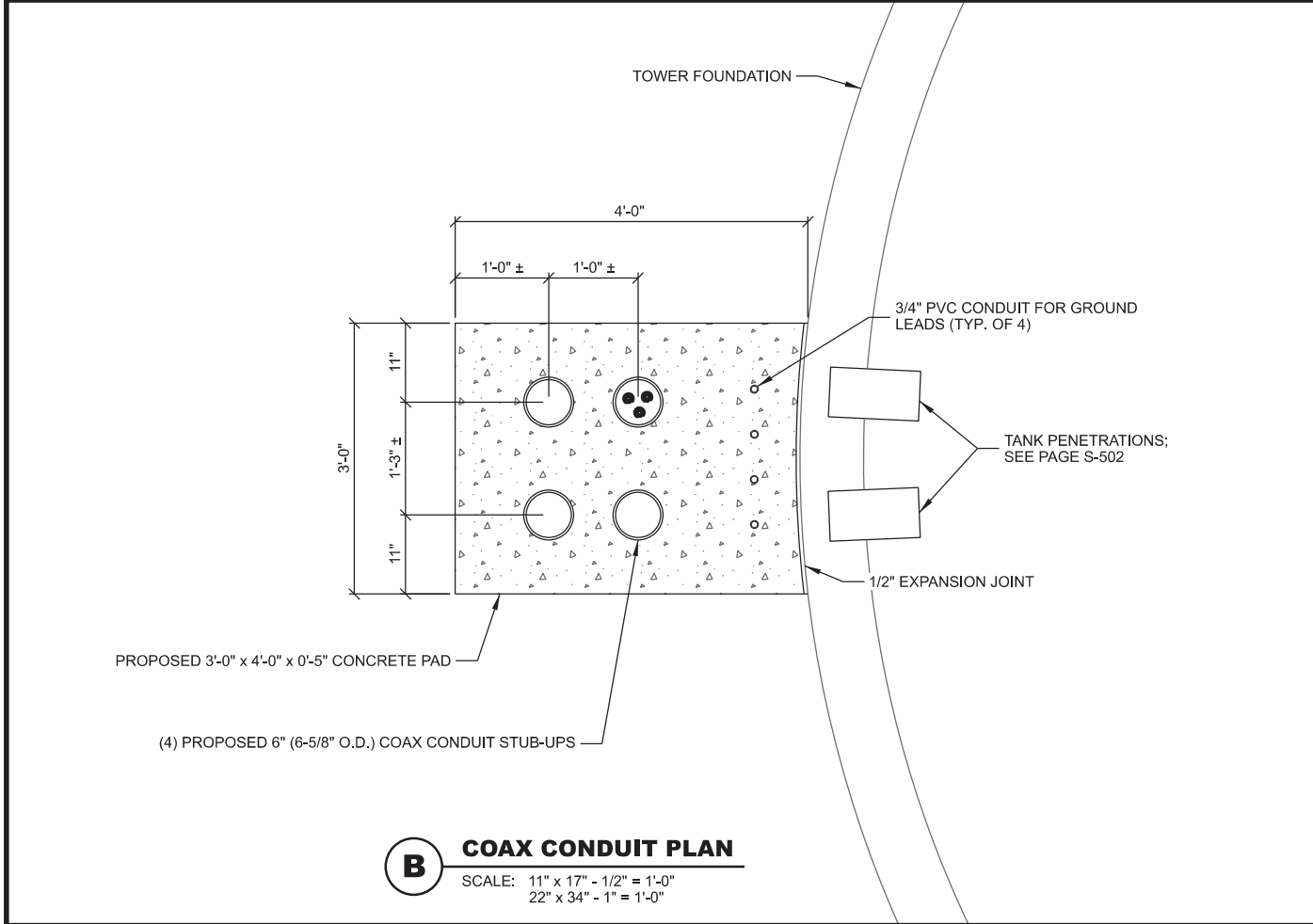
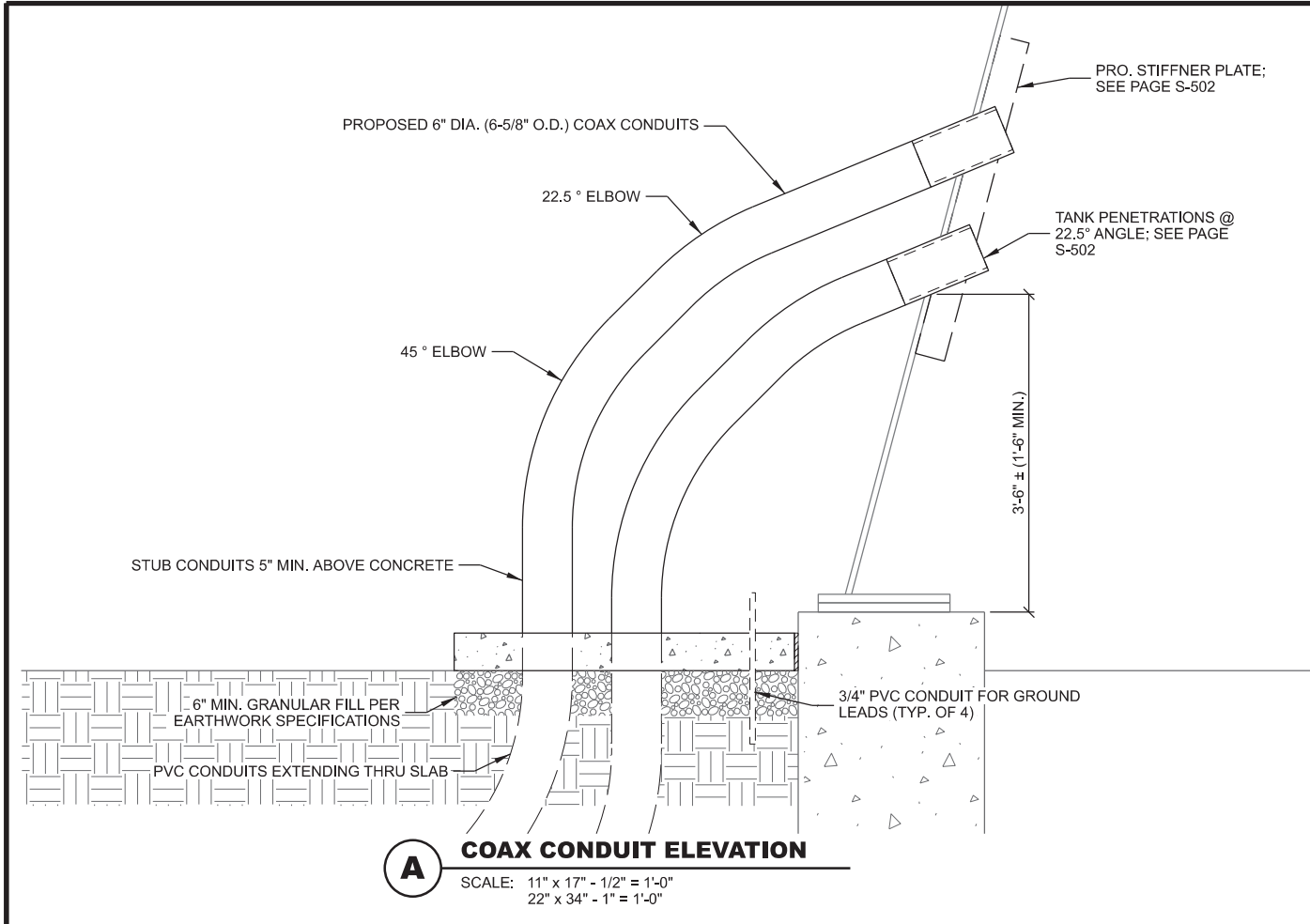
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TOWER 2, SUITE 400  
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**EQUIPMENT ROOM LAYOUT PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

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CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:		PCM
PLOT DATE:		10/20/2023
PROJECT NUMBER:		32691
SET TYPE:		DRAFT
SHEET NUMBER:		<b>VzW C-106</b>







CONSULTANT:

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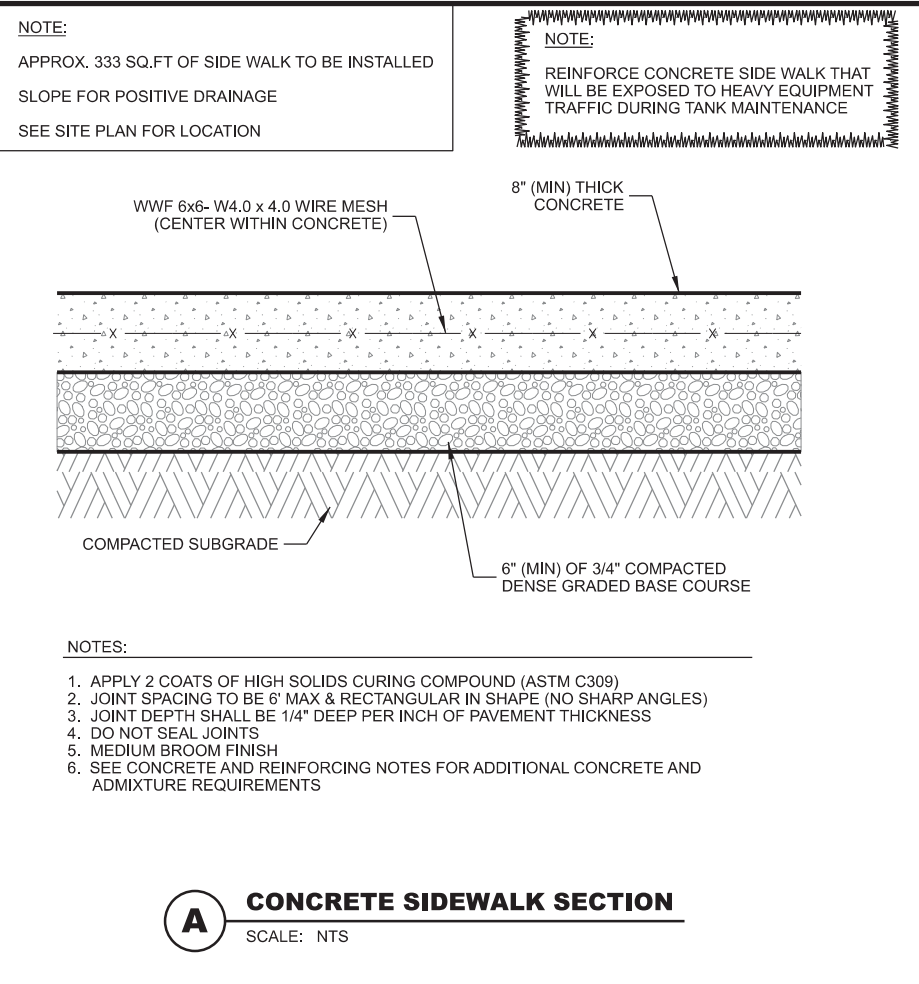
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ROLLING MEADOW, IL 60008

**COAX ENCLOSURE AND GPS DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
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CV	10/20/23	REV. I
CHECKED BY:		PCM
PLOT DATE:		10/20/2023
PROJECT NUMBER:		32691
SET TYPE:		DRAFT
SHEET NUMBER:		<b>VzW C-501</b>

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**CONCRETE AND REINFORCING NOTES:**

1. ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND MOST CURRENT VERSION OF ACI STANDARDS.
2. ALL EXPOSED CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE A SURFACE FINISH SF-2.0 IN ACCORDANCE WITH ACI 301.
3. ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A 28-DAY COMPRESSIVE STRENGTH ( $f_c$ ) OF 4,000 PSI. EXPOSED EXTERIOR CONCRETE TO BE AIR ENTRAINED WITH 6% AIR CONTENT. CONTRACTOR TO PERFORM CONCRETE SLUMP TEST (5" MAX SLUMP). NO WATER TO BE ADDED AFTER SLUMP HAS BEEN MEASURED.
4. ALL CONCRETE REINFORCING SHALL BE ASTM A615 GRADE 60 AND PLACED IN ACCORDANCE WITH ACI STANDARDS W/ 3" MIN COVERAGE IF CAST AGAINST EARTH AND 2" MIN COVERAGE OTHERWISE.
5. REMOVE ALL ORGANIC MATERIAL, SOFT AREAS, AND POOR SOILS BENEATH FOUNDATION TO A DEPTH OF AT LEAST 2'-0" BELOW FOUNDATION.
6. SLAB NOT SUITABLE AT SITES WITH ORGANIC SOIL, UNCOMPACTED FILL, EXPANSIVE SOIL, OR SOILS SUSCEPTIBLE TO FROST HEAVE.
7. CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM ALL FOUNDATIONS.

MANUFACTURER: SITE PRO 1  
MODEL: TEP20

TUBE ENTRY WITH 4" PORT

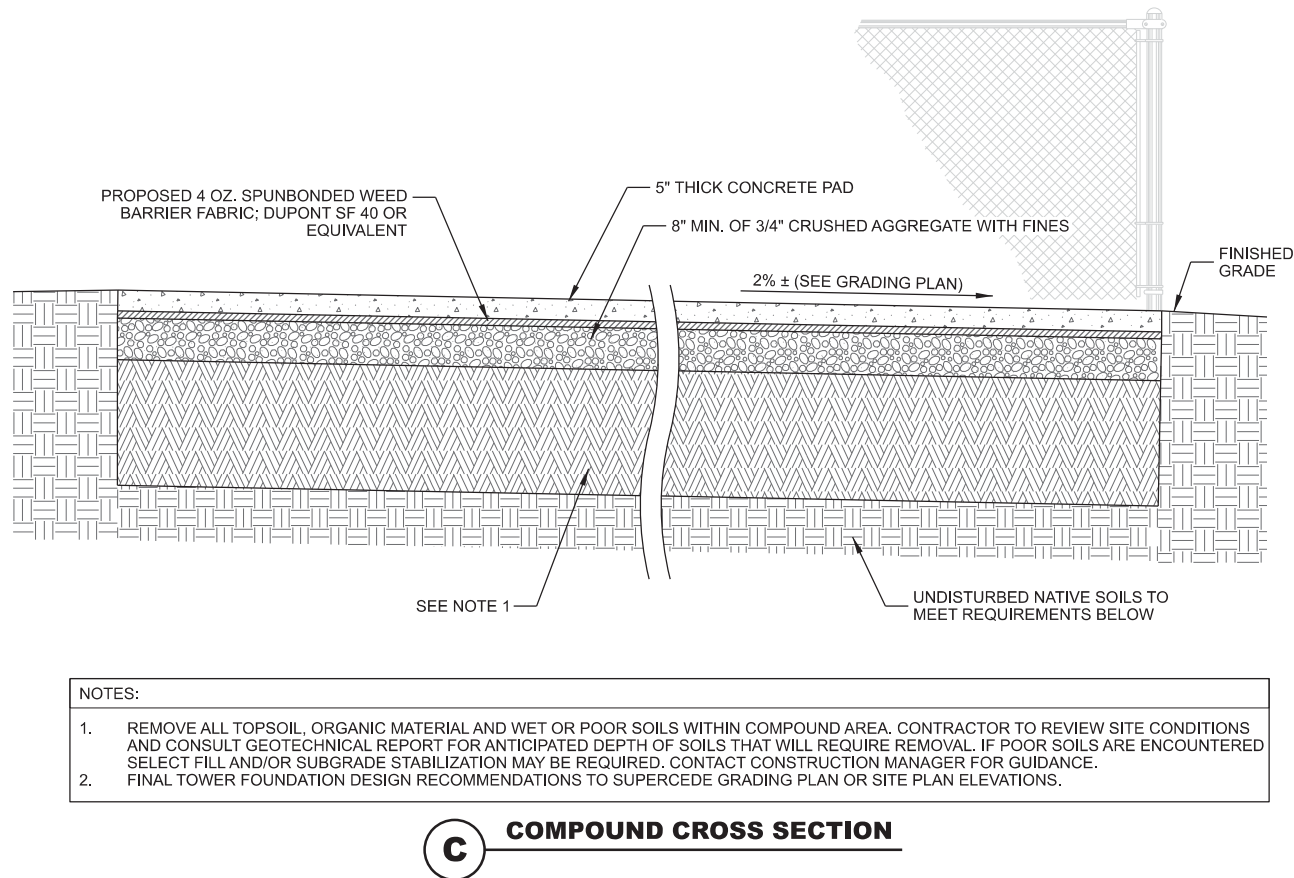
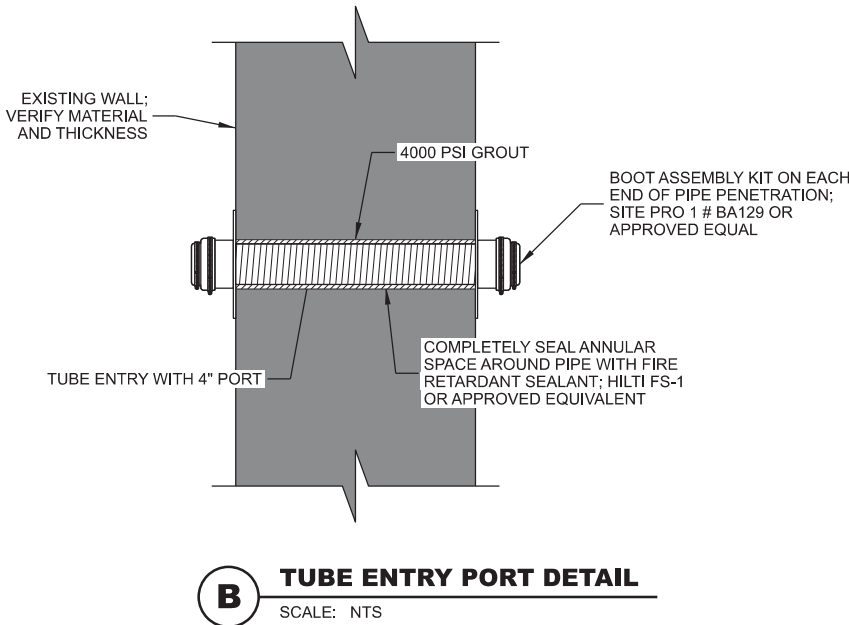
PROVIDES A SINGLE ENTRY PORT FOR RUNNING  
FEEDLINES THROUGH A WALL OR ROOF

INCLUDES TWO SEALANT RETAINER RINGS FOR  
WEATHERPROOFING

THREADED PVC CONDUIT (3-3/8" O.D., 2-3/4" I.D.)

USE WITH A 4" BOOT TO WEATHERPROOF FEEDLINES(S)

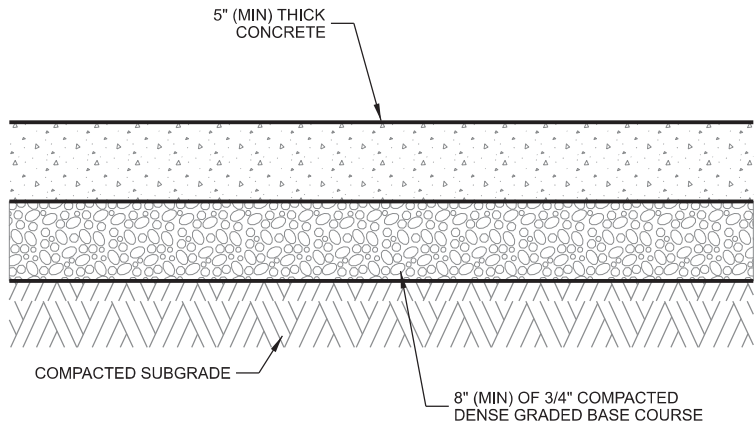
FOR USE ON WALLS UP TO 20" THICK; PVC TUBE CAN BE  
CUT TO LENGTH FOR THINNER APPLICATIONS



NOTE:

COMPOUND TO BE FINISHED WITH CONCRETE.  
EXTEND CONCRETE TO EXTERIOR FACE OF FENCE

SEE GRADING PLAN FOR ELEVATIONS AND SLOPE



NOTES:

1. APPLY 2 COATS OF HIGH SOLIDS CURING COMPOUND (ASTM C309)
2. JOINT SPACING TO BE 6' MAX & RECTANGULAR IN SHAPE (NO SHARP ANGLES)
3. JOINT DEPTH SHALL BE 1/4" DEEP PER INCH OF PAVEMENT THICKNESS
4. DO NOT SEAL JOINTS
5. MEDIUM BROOM FINISH
6. SEE CONCRETE AND REINFORCING NOTES FOR ADDITIONAL CONCRETE AND ADMIXTURE REQUIREMENTS

**D CONCRETE COMPOUND SECTION**  
SCALE: NTS

CONSULTANT:

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TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**CONSTRUCTION DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

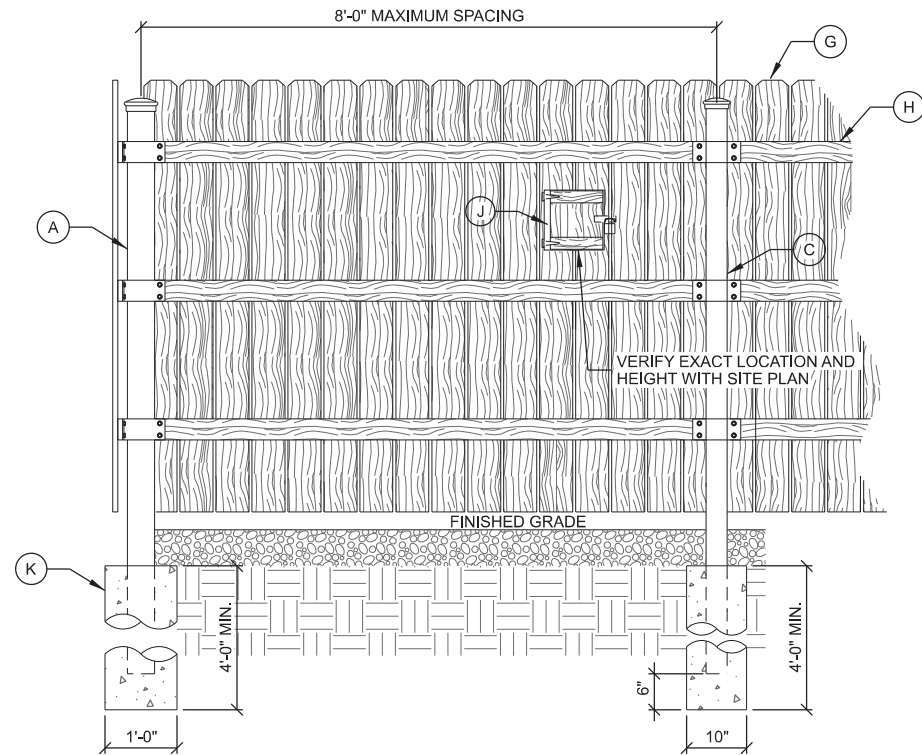
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PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	<b>VzW C-502</b>

KEYNOTES: (THIS SHEET)

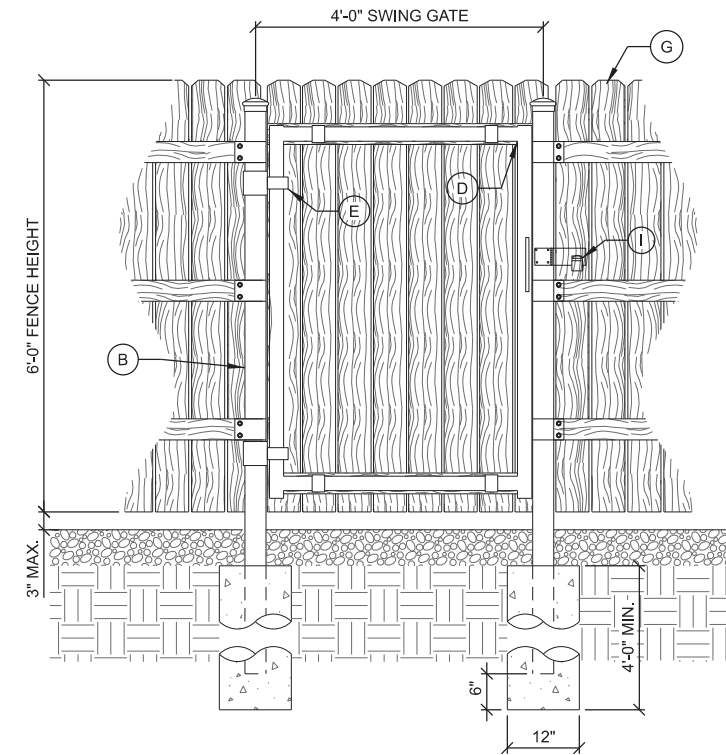
- A. 4" DIA. SCHEDULE 40 GALVANIZED STEEL CORNER POSTS; PROVIDE END CAP.
- B. 3" DIA. SCHEDULE 40 GALVANIZED STEEL GATE POSTS; PROVIDE END CAP.
- C. 3" DIA. SCHEDULE 40 GALVANIZED STEEL INTERMEDIARY LINE POSTS TO BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.; PROVIDE END CAP.
- D. 2" WELDED STEEL GATE FRAME
- E. HEAVY DUTY BUTT HINGES
- F. 3/8" DIA. TENSION ROD
- G. 1" x 6" DOG-EARED VERTICAL CEDAR PLANKS SECURED TO HORIZONTAL RAILS. FINISH WITH CLEAR WOOD SEALER.
- H. 2" x 4" HORIZONTAL CEDAR BACKING RAILS SECURED TO FENCE POSTS WITH MANUFACTURER APPROVED HARDWARE. FINISH WITH CLEAR WOOD SEALER.
- I. LATCH WITH PADLOCK ON EXTERIOR GATE (GRAINGER @1XMP1 OR EQUIVALENT).
- J. 10" x 10" HINGED OPENING FOR ELECTRICAL METER READ-OUT. VERIFY EXACT POSITION AND HEIGHT WITH SITE PLAN.
- K. 12" DIA. CONCRETE PIER AT GATE & CORNER POSTS, 10" DIA. AT LINE POSTS. SEE DETAIL BELOW

GENERAL NOTES:

CONTRACTOR TO FOLLOW MANUFACTURER INSTALLATION RECOMMENDATIONS. ALL HARDWARE TO FOLLOW MANUFACTURER SPECIFICATIONS.

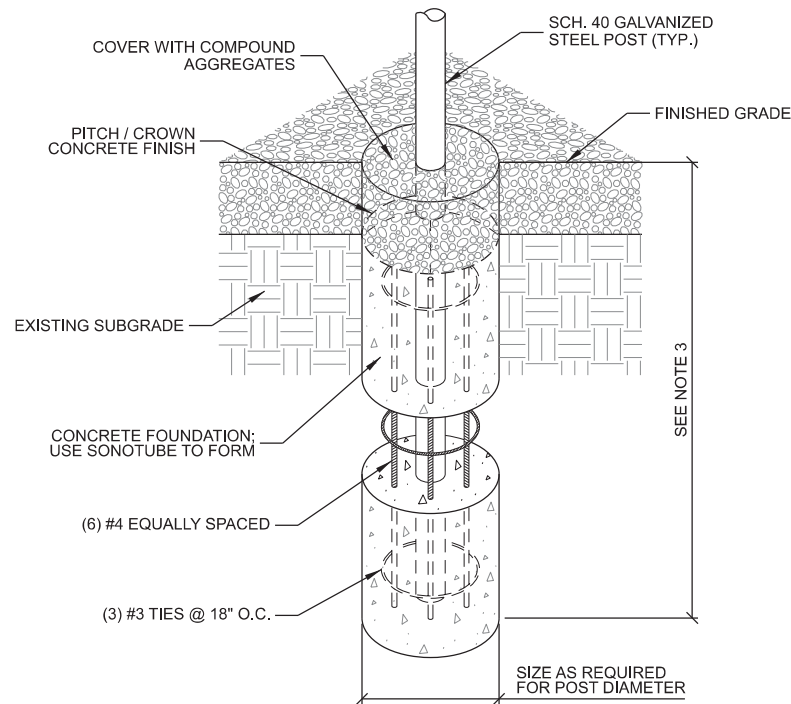


FENCE SECTION



MAN GATE (INTERIOR)

A CEDAR FENCE WITH MAN GATE DETAILS



NOTES:

1. MAINTAIN 3" MINIMUM REBAR COVER WITH CONCRETE IN ALL DIRECTIONS.
2. CONCRETE MIX TO BE 4,000 PSI @ 28 DAYS.
3. FOUNDATION DEPTH TO EXCEED LOCAL FROST DEPTH, OR 48" MINIMUM.

B FENCE POST PIER FOUNDATION

FENCING NOTES: (THIS SHEET)

SCOPE:

- 1.1 THIS SECTION COVERS THE REQUIREMENTS FOR THE MATERIALS AND THE CONSTRUCTION OF SITE FENCING.

SPECIAL REQUIREMENTS:

- 2.1 ALL FITTINGS, HARDWARE AND STEEL MEMBERS USED FOR SITE AREA FENCING, SHALL BE HOT DIPPED GALVANIZED (ASTM A153) OR OTHER APPROVED NON CORROSIVE MATERIAL AND CONFORM TO FEDERAL SPEC RR-F-191G (1-25-74).
- 2.2 ALL NON-CORROSIVE MATERIAL SHALL BE PRE-APPROVED BY THE PROJECT MANAGER.
- 2.3 ANY DAMAGE TO GALVANIZING OR NON-CORROSIVE COATING DURING CONSTRUCTION SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S RECOMMENDED METHODS.
- 2.4 ALL WOOD TO BE CEDAR WITH CLEAR WOOD SEALER FINISH.

FENCE POSTS:

- 3.1 LOCATION OF CORNER POSTS SHALL BE DETERMINED FROM STAKES AND PROPERTY PINS INSTALLED BY THE REGISTERED LAND SURVEYOR UNDER CONTRACT FOR THE PROJECT. IF THE STAKES ARE NOT PRESENT OR DO NOT CONFORM TO THE SITE PLAN, CONSULT WITH THE PROJECT MANAGER.
- 3.2 CORNERS AND GATE POST FOR SITE SHALL BE 4" DIA. SCHEDULE 40 GALVANIZED PIPE. INTERMEDIARY POSTS SHALL BE 2-1/2" OR 3" DIA. SCHEDULE 40 GALVANIZED PIPE.
- 3.3 CORNER POSTS SHALL BE SET WITHIN ONE INCH (1") OF DIMENSIONS INDICATED ON THE SITE PLAN.
- 3.4 FENCE POSTS SHALL BE VERTICALLY PLUMB IN ALL PLANES WITHIN 1/2 INCH (1/2").
- 3.5 CORNER AND GATE POST FOUNDATIONS SHALL BE A MINIMUM FOUR FEET (4') DEEP OR SIX INCHES (6") BELOW THE FROST LINE, WHICHEVER IS GREATER, WITH MINIMUM THREE INCH (3") CLEARANCE BETWEEN BOTTOM OF POST AND BOTTOM OF THE HOLE.
- 3.6 POST FOUNDATIONS GATE AND CORNER POSTS SHALL BE 12 INCHES (12") IN DIAMETER. INTERMEDIARY POSTS FOUNDATIONS SHALL BE 10 INCHES (10") IN DIAMETER.
- 3.7 LINE POSTS BETWEEN CORNER AND GATE POSTS SHALL BE EQUALLY SPACED WITH AN EIGHT FOOT (8') MAXIMUM SPACING. GATE POST LOCATIONS SHALL BE IN ACCORDANCE WITH SITE PLAN AND SHALL BE VERIFIED WITH THE PROJECT MANAGER.
- 3.8 ALL POSTS SHALL BE CAPPED.
- 3.9 ALL FOUR CORNERS POSTS AND BOTH GATE POSTS SHALL BE CONNECTED TO THE SITE GROUNDING SYSTEM (REFER TO GROUNDING SYSTEM STANDARD).

FENCE ENCLOSURE:

- 4.1 ENCLOSURE BACKING RAILS TO CONSIST OF 2 INCH (2") BY 4 INCH (4") NOMINAL CEDAR PLANKS. ALL CEDAR TO HAVE CLEAR WOOD SEALER FINISH.
- 4.2 ENCLOSURE BOARDS TO BE HEAVY DUTY 1 INCH (1") BY 6 INCH (6") NOMINAL CEDAR PLANKS. ALL CEDAR TO HAVE CLEAR WOOD SEALER FINISH.
- 4.3. ALL ENCLOSURE BOARDS TO BE SECURED TO FENCE POSTS WITH MANUFACTURER APPROVED HARDWARE. CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS

GATE:

- 5.1 LOCATION OF GATE SHALL CONFORM TO THE SITE PLAN. GATE SIZE SHALL BE 12'-0" WIDE (UNLESS OTHERWISE NOTED).
- 5.2 GATE FRAME TO BE CONSTRUCTED OF 2 INCH (2") WELDED STEEL WITH HEAVY DUTY HINGES. CONTRACTOR TO FOLLOW MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS.
- 5.3 GATE HINGES SHALL PROVIDE FOR 180 DEGREE RADIUS GATE SWING. ANY HINGE NUTS SHALL BE ON THE INSIDE AND DOUBLE-NUT TO DETER UNAUTHORIZED ENTRY.
- 5.4 GATE SHALL BE INSTALLED PLUMB AND SHALL OPEN AND CLOSE FREELY.
- 5.5 GATE POSTS SHALL NOT BE SHARED AS A CORNER POST.

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CONSULTANT:



CLIENT:



FENCE & GATE DETAILS  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
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CV	05/08/23	REV. D
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CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

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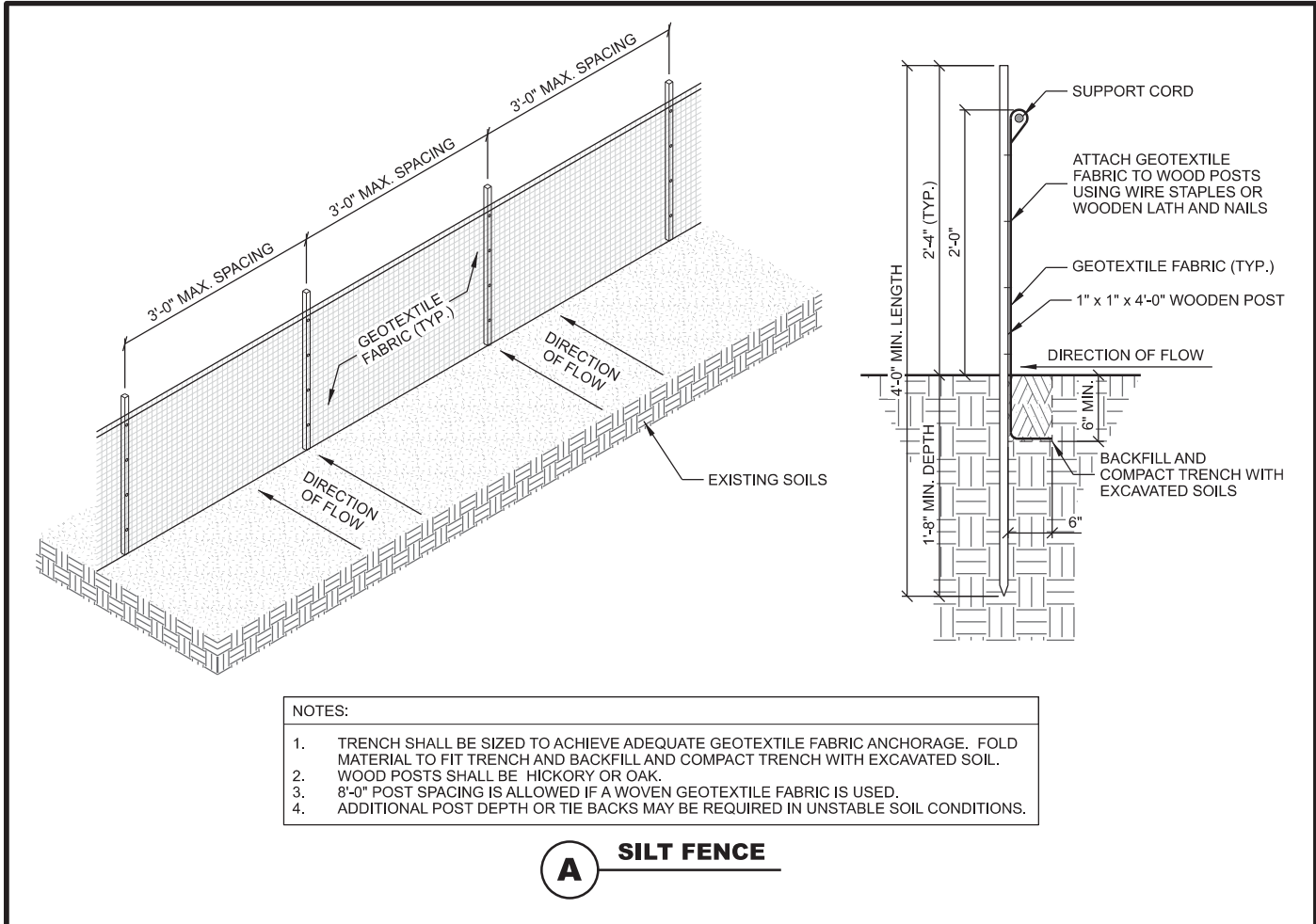
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PROJECT NUMBER:	32691
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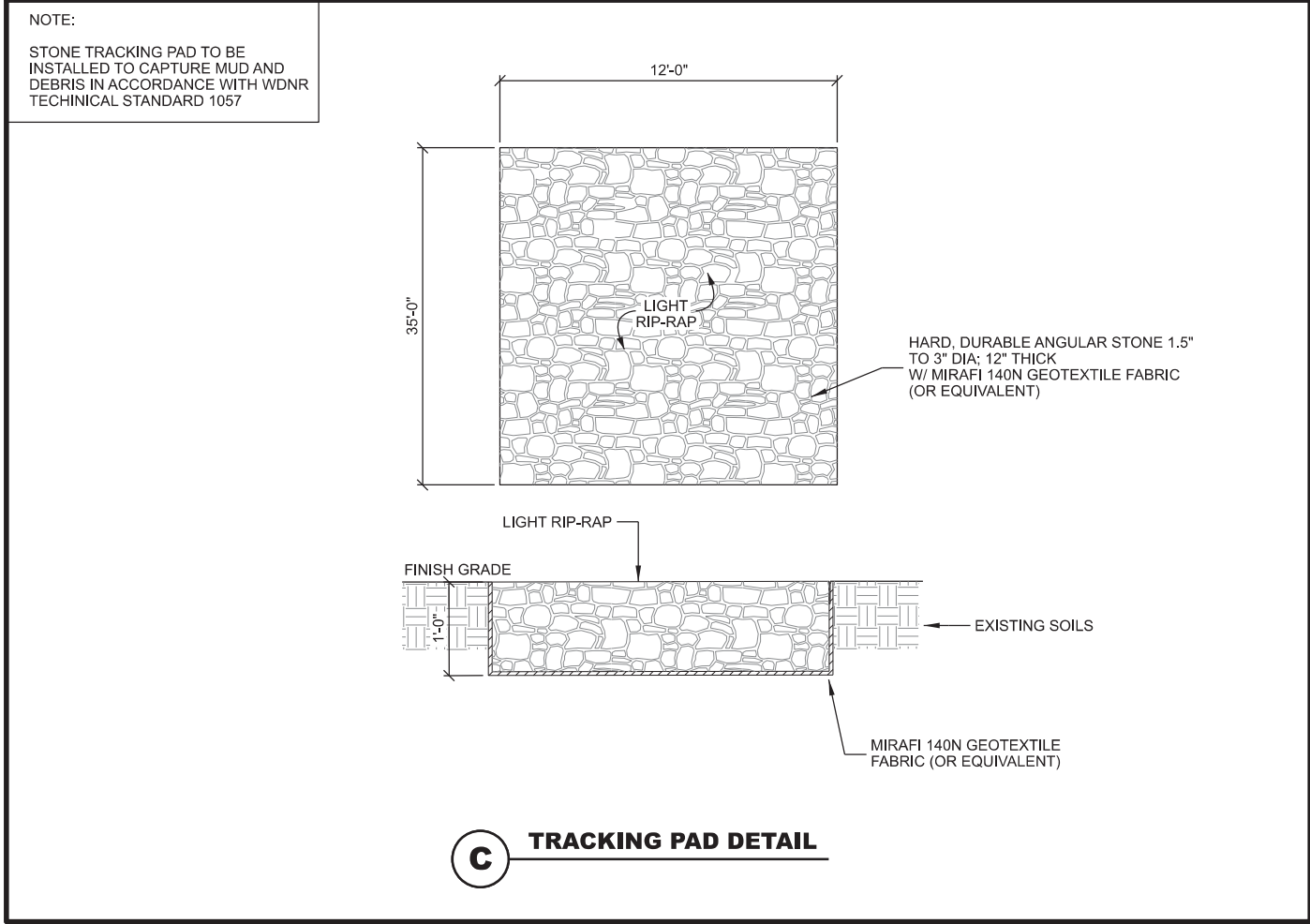
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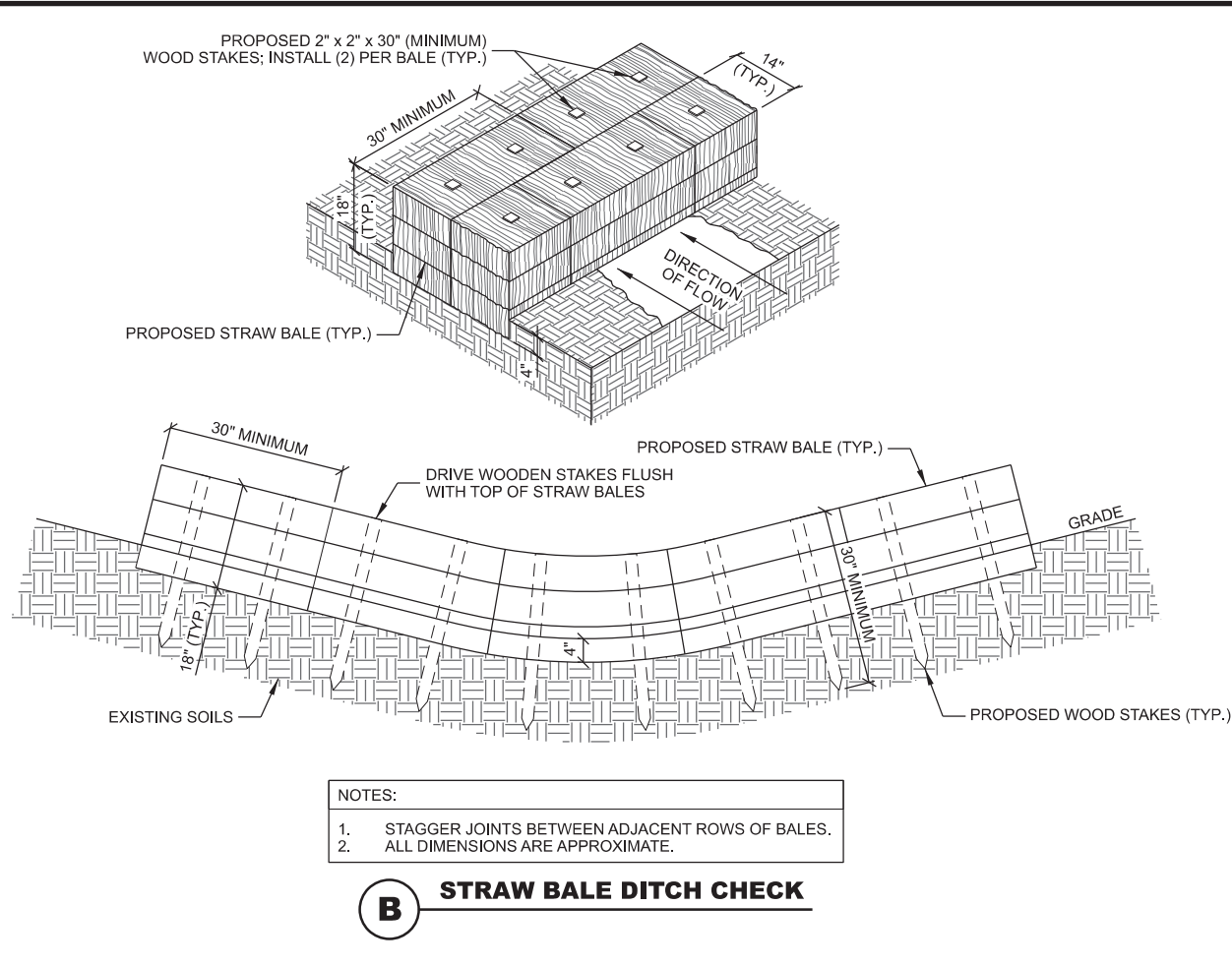


- NOTES:
- 1. TRENCH SHALL BE SIZED TO ACHIEVE ADEQUATE GEOTEXTILE FABRIC ANCHORAGE. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
  - 2. WOOD POSTS SHALL BE HICKORY OR OAK.
  - 3. 8'-0" POST SPACING IS ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED.
  - 4. ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOIL CONDITIONS.

**A** SILT FENCE

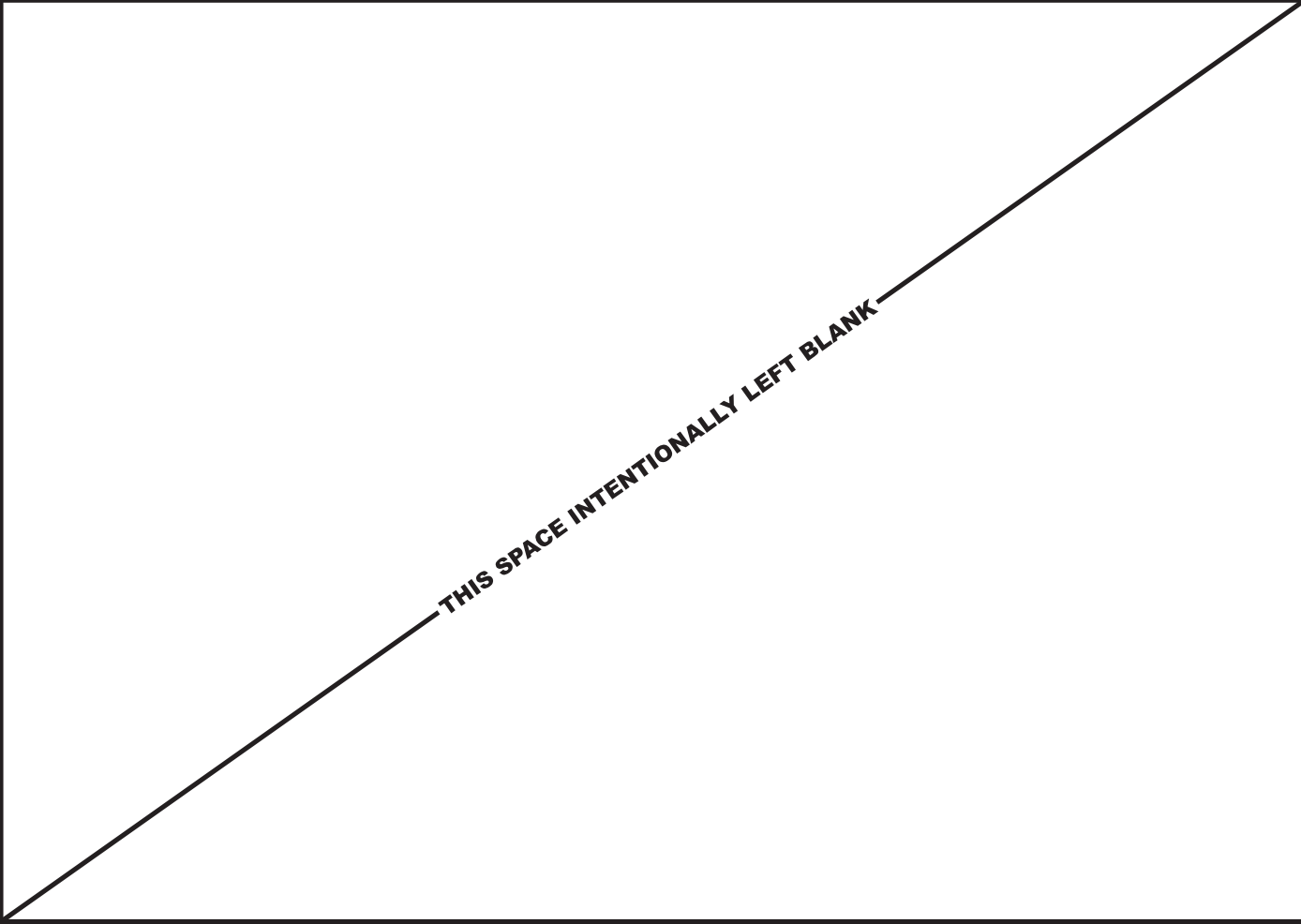


**C** TRACKING PAD DETAIL



- NOTES:
- 1. STAGGER JOINTS BETWEEN ADJACENT ROWS OF BALES.
  - 2. ALL DIMENSIONS ARE APPROXIMATE.

**B** STRAW BALE DITCH CHECK



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ROLLING MEADOW, IL 60008

**GRADING DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

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CV	09/27/23	REV. H
CV	10/20/23	REV. I

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PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	<b>VzW C-504</b>





**A** SITE OVERVIEW



**B** SITE OVERVIEW



**C** APPROX. UTILITY RACK LOCATION

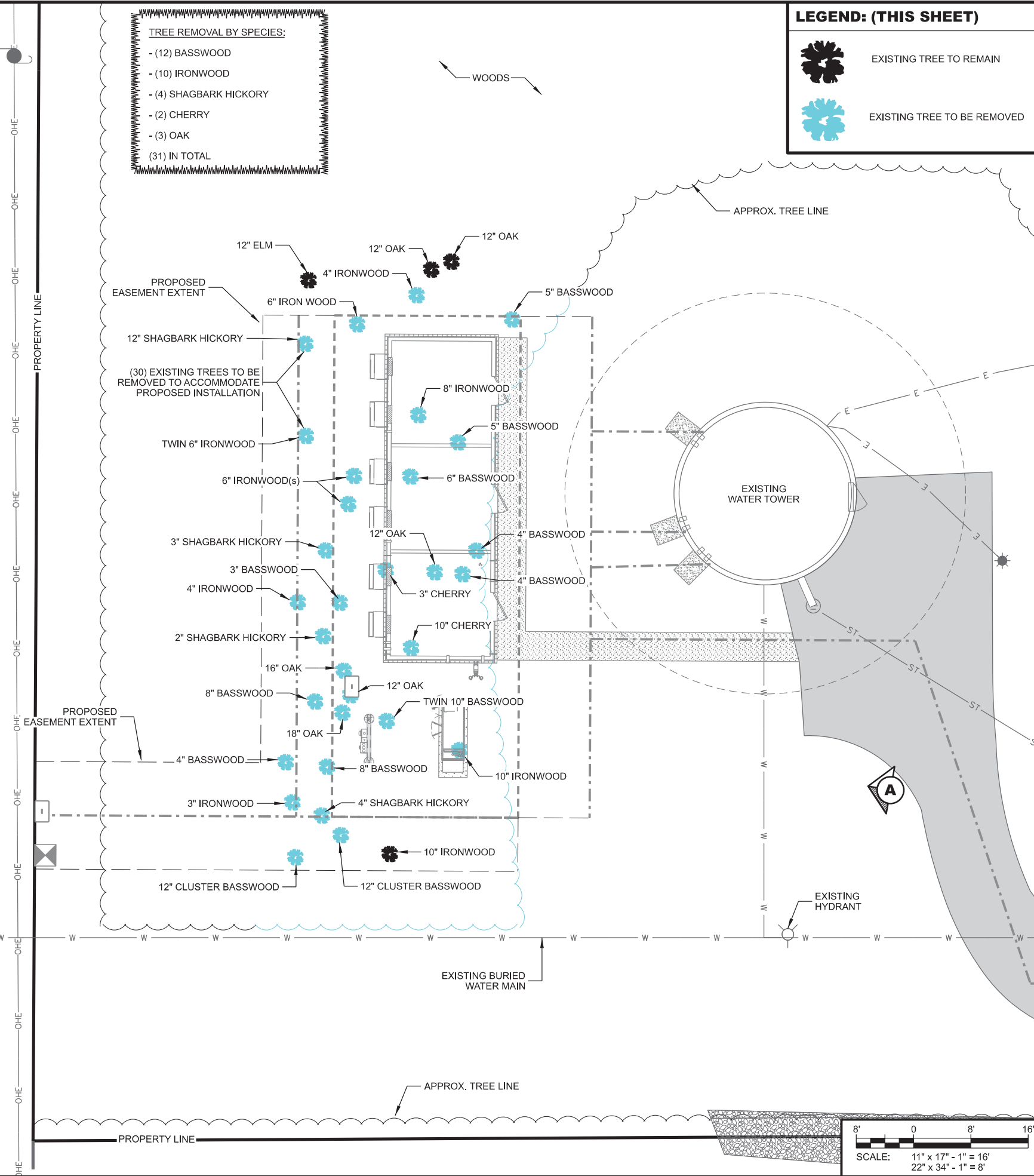


SIDE WALK

SIDE WALK



EXISTING HYDRANT



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**LANDSCAPE PRESERVATION PLAN**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

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CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **L-101**

SCALE: 11" x 17" - 1" = 16'  
22" x 34" - 1" = 8'

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S.T.H. 164

RIGHT OF WAY

CONCRETE SIDE WALK

HWY 164 & K  
Village Of Sussex  
Plant List - 04/24/23

Deciduous Trees

Symbol	Quantity	Scientific Name	Common Name	Height	Spread	Size	Spacing
TA	4	Tilia americana	Basswood	60-80'	35-50'	2" BB	15' o.c.
CO	5	Carya ovata	Shagbark Hickory	80'	40'	2" BB	15' o.c.
QS	2	Quercus x schuettei	Hybrid Swamp x Bur Oak	75'	70'	2.5" BB	24' o.c.

Evergreen

Symbol	Quantity	Scientific Name	Common Name	Height	Spread	Size	Spacing
JV	12	Juniperus virginiana	Eastern Red Cedar	30-40'	15-20'	6'	12' o.c.

NOTES: (THIS SHEET)

1. PLANT CONTAINER OR BALLED-AND-BURLAPED PLANTS IN SPRING OR FALL.
2. PLANT ON A RAISED BED TO ENSURE PROPER DRAINAGE. ALL EXPOSED AREAS SHALL BE PROTECTED AGAINST WASHOUTS AND SOIL EROSION
3. MINIMIZE DISTURBANCE TO EXISTING SITE TREES, PLANTS AND NATURAL ROCK OUT AS MUCH AS POSSIBLE FOR PROPOSED CONSTRUCTION.
4. ALL PROPOSED LANDSCAPE TREES AND SHRUBS SHALL BE PURCHASED FROM A LOCAL NURSERY WITH PLANT STOCK THAT ARE ACCLIMATED TO THE CLIMATIC VARIATION OF THE LOCAL REGION.
5. BEFORE LANDSCAPE TREES ARE PLANTED, APPROPRIATE UTILITY COMPANIES SHOULD BE CONTACTED. FOR EXACT LOCATION OF UNDERGROUND UTILITIES, CONTACT DIGGERS HOT LINE LISTED ON G-001.
6. ALL DISTURBED SOILS LOCATED ADJACENT TO THE COMPOUND AND/OR WITHIN THE PLANTING AREAS SHALL BE LOOSENEED PRIOR TO ALL LANDSCAPE PLANTING.
7. AMEND NATIVE SOIL AS REQUIRED WITH ORGANIC MATTER SUCH AS PEAT MOSS AND/OR MANURE TO ENSURE ROOT ESTABLISHMENT OF NEWLY PLANTED TREES IF THE NATIVE SOIL CONSISTS OF SANDY LOAMS OR CLAYEY SOILS.
8. A ROOT STIMULATOR SUCH AS HI-YIELD OR EQUIVALENT SHALL BE UTILIZED PER THE MANUFACTURERS RECOMMENDATIONS AT THE TIME OF PLANTING.
9. MAINTENANCE TO INCLUDE WATERING OF NEWLY PLANTED TREES AT MINIMUM ONCE PER WEEK WITH A HOSE ON TRICKLE AT THE BASE OF THE TRUNK FOR A MIN. 30 MINUTES PER PLANT UNTIL FINAL ROOT ESTABLISHMENT, AND DURING DROUGHT CONDITIONS; AND SHEARING/ PRUNING OF LANDSCAPE TREES TO PROVIDE ACCESS AROUND COMPOUND AND TO THE ADJACENT DRAINAGE AREA.
- 10.

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LANDSCAPE PLAN  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

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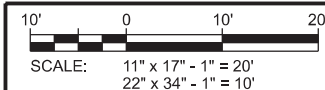
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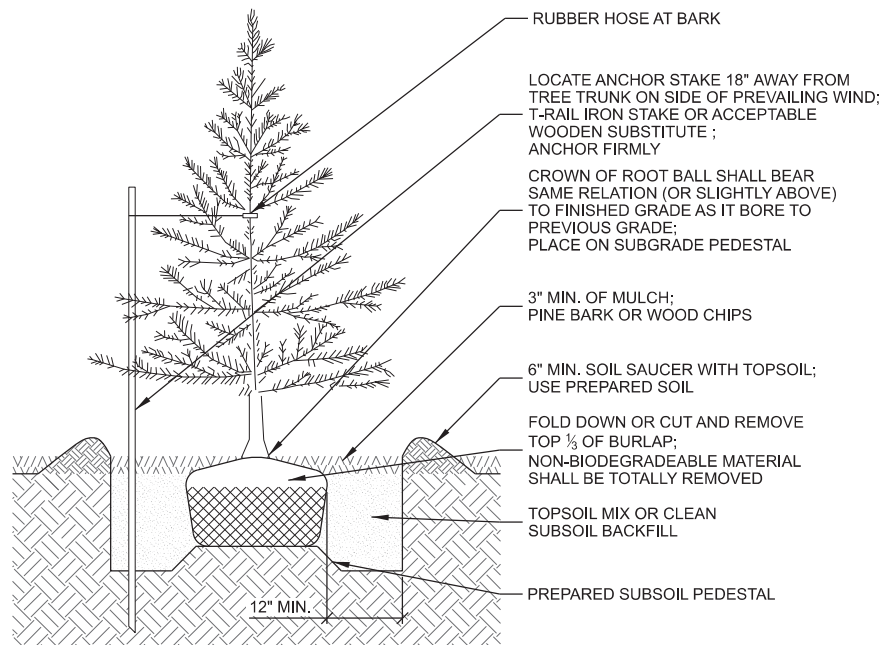
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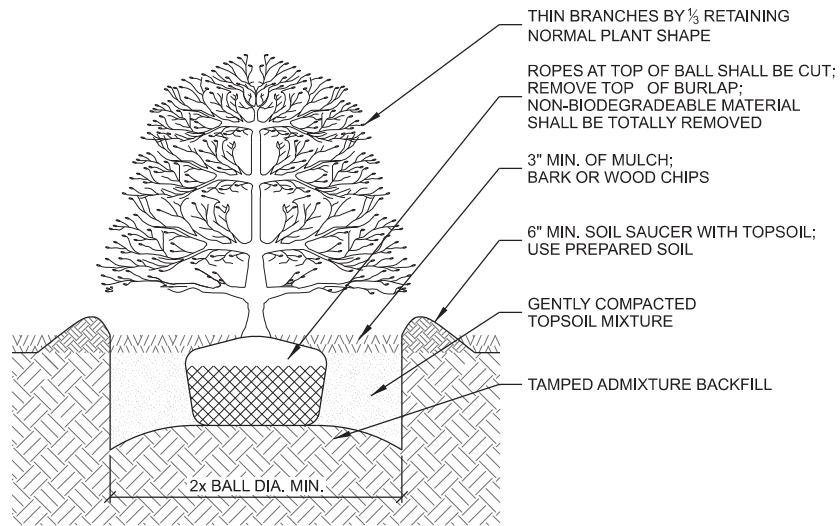
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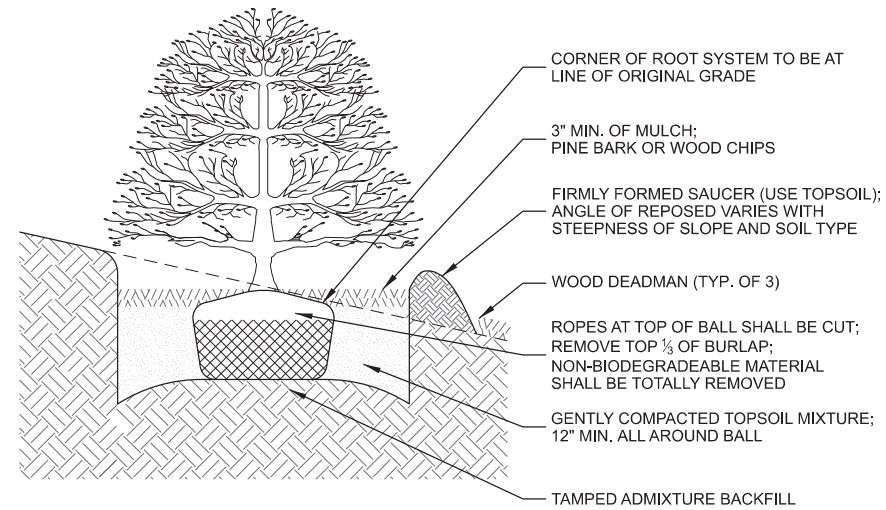
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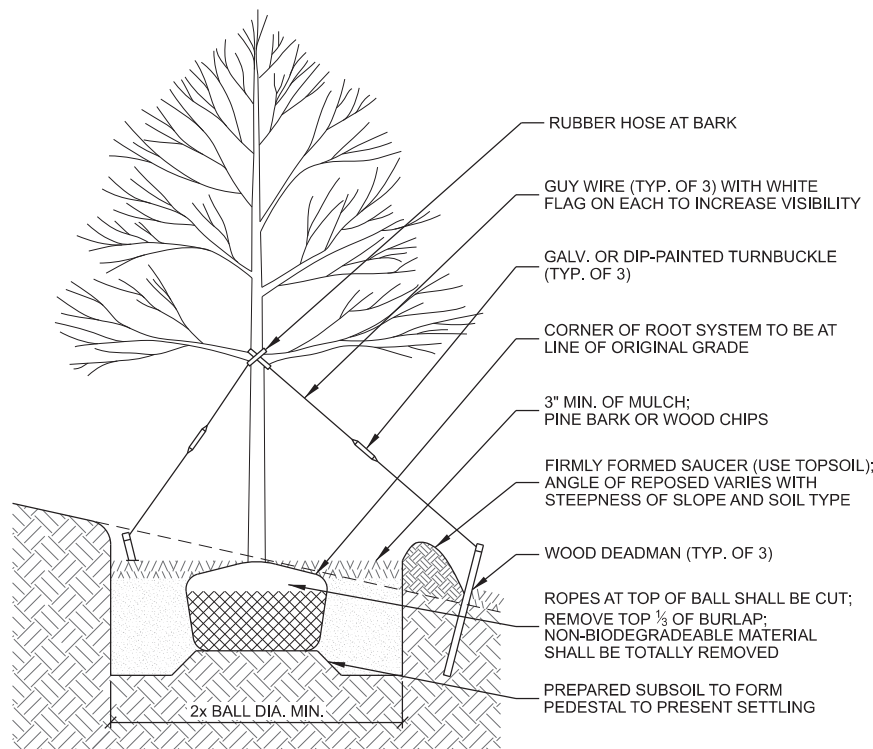
**A CONIFEROUS TREE PLANTING**



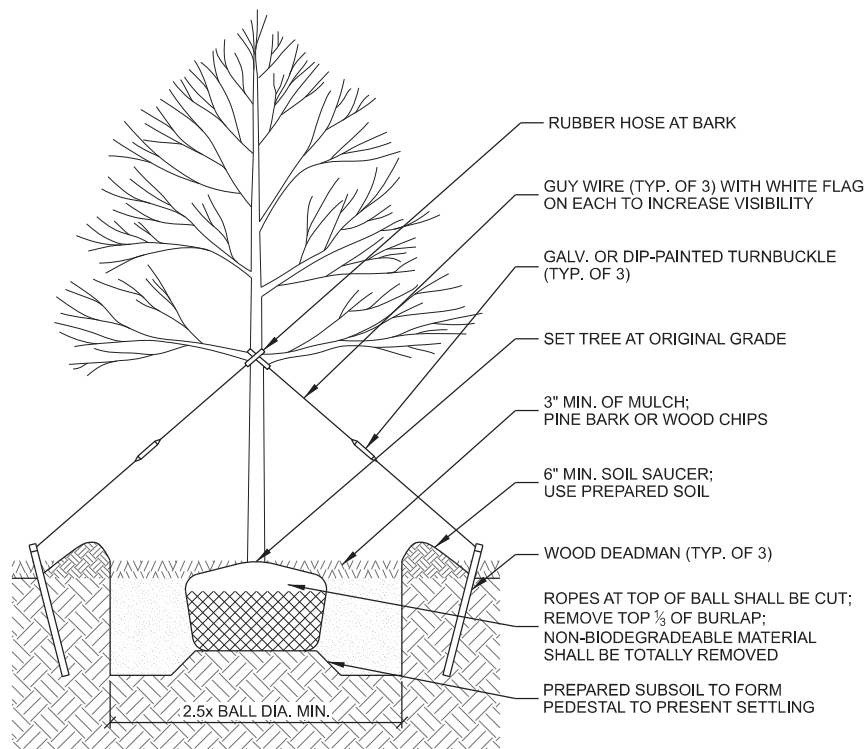
**B SHRUB PLANTING: BALL AND BURLAP**



**C SHRUB PLANTING ON SLOPE: BALL AND BURLAP**



**D DECIDUOUS TREE PLANTING ON SLOPE**



**E DECIDUOUS TREE PLANTING**

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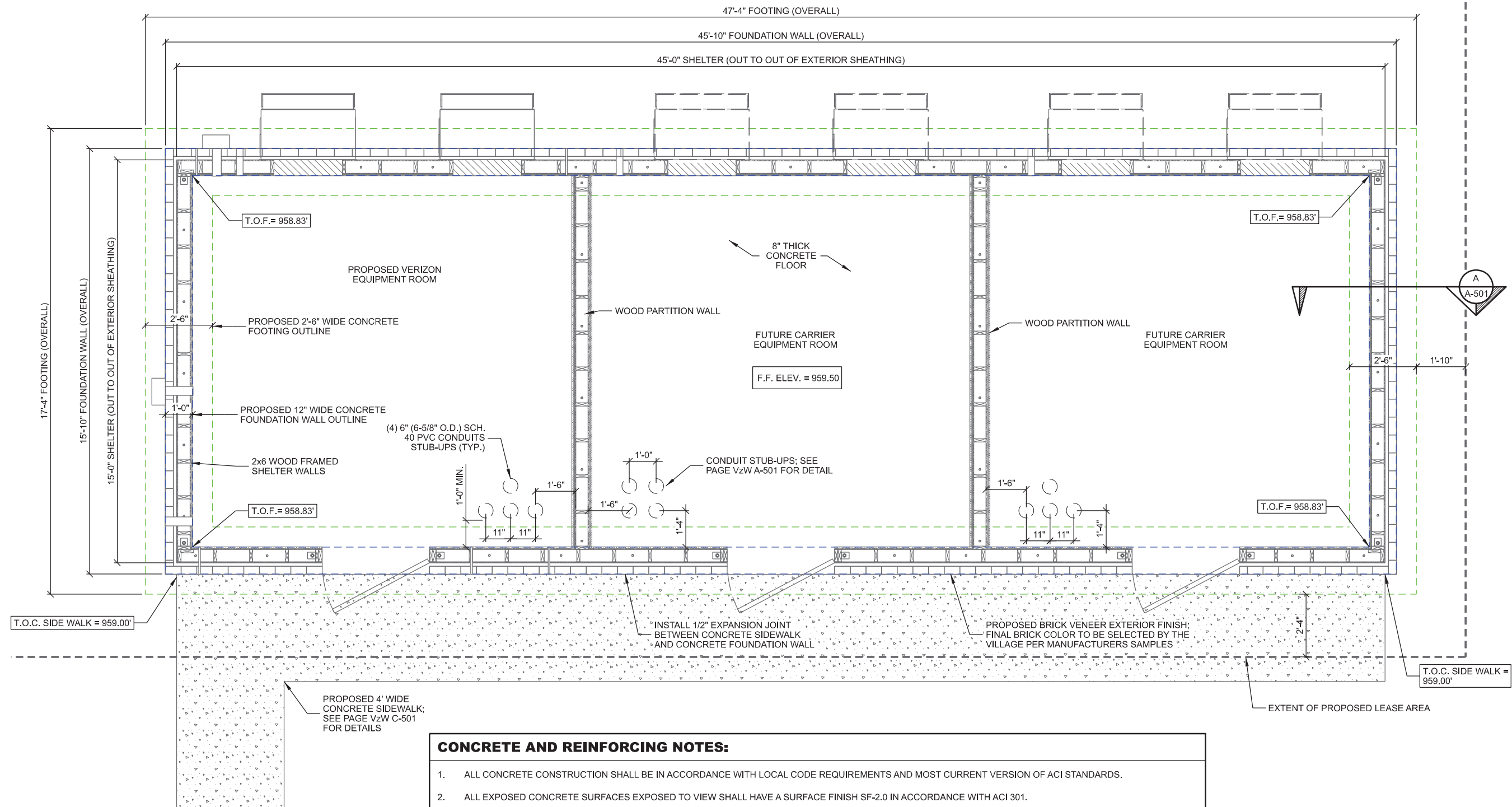
**LANDSCAPE DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

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**CONCRETE AND REINFORCING NOTES:**

- ALL CONCRETE CONSTRUCTION SHALL BE IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS AND MOST CURRENT VERSION OF ACI STANDARDS.
- ALL EXPOSED CONCRETE SURFACES EXPOSED TO VIEW SHALL HAVE A SURFACE FINISH SF-2.0 IN ACCORDANCE WITH ACI 301.
- ALL CONCRETE UNLESS SPECIFICALLY NOTED SHALL BE NORMAL WEIGHT (145 PCF) AND SHALL ACHIEVE A 28-DAY COMPRESSIVE STRENGTH ( $f'_c$ ) OF 4,000 PSI. EXPOSED EXTERIOR CONCRETE TO BE AIR ENTRAINED WITH 6% AIR CONTENT. CONTRACTOR TO PERFORM CONCRETE SLUMP TEST (4" MAX SLUMP). NO WATER TO BE ADDED AFTER SLUMP HAS BEEN MEASURED.
- ALL CONCRETE REINFORCING SHALL BE ASTM A615 GRADE 60 AND PLACED IN ACCORDANCE WITH ACI STANDARDS W/ 3" MIN COVERAGE IF CAST AGAINST EARTH AND 2" MIN COVERAGE OTHERWISE.
- REMOVE ALL ORGANIC MATERIAL, SOFT AREAS, AND POOR SOILS BENEATH FOUNDATION TO A DEPTH OF AT LEAST 2'-0" BELOW FOUNDATION.
- GEOTECHNICAL REPORT NOT COMPLETED AT TIME OF DESIGN.
- SLAB NOT SUITABLE AT SITES WITH ORGANIC SOIL, UNCOMPACTED FILL, EXPANSIVE SOIL, OR SOILS SUSCEPTIBLE TO FROST HEAVE.
- CONTRACTOR TO ENSURE POSITIVE DRAINAGE FROM ALL FOUNDATIONS.
- CONCRETE FLOOR JOINTS TO BE PLACED APPROX. 15' APART. JOINT DEPTH SHALL BE 1/4" DEEP PER INCH OF PAVEMENT THICKNESS. SAW CUT JOINTS TO BE DONE 4- 12 HOURS AFTER CONCRETE HAS BEEN FINISHED. APPLY 2 COATS OF HI SOLIDS CURING COMPOUND (ASTM C309). DO NOT SEAL JOINTS.

**A SHELTER FOUNDATION PLAN**

SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"

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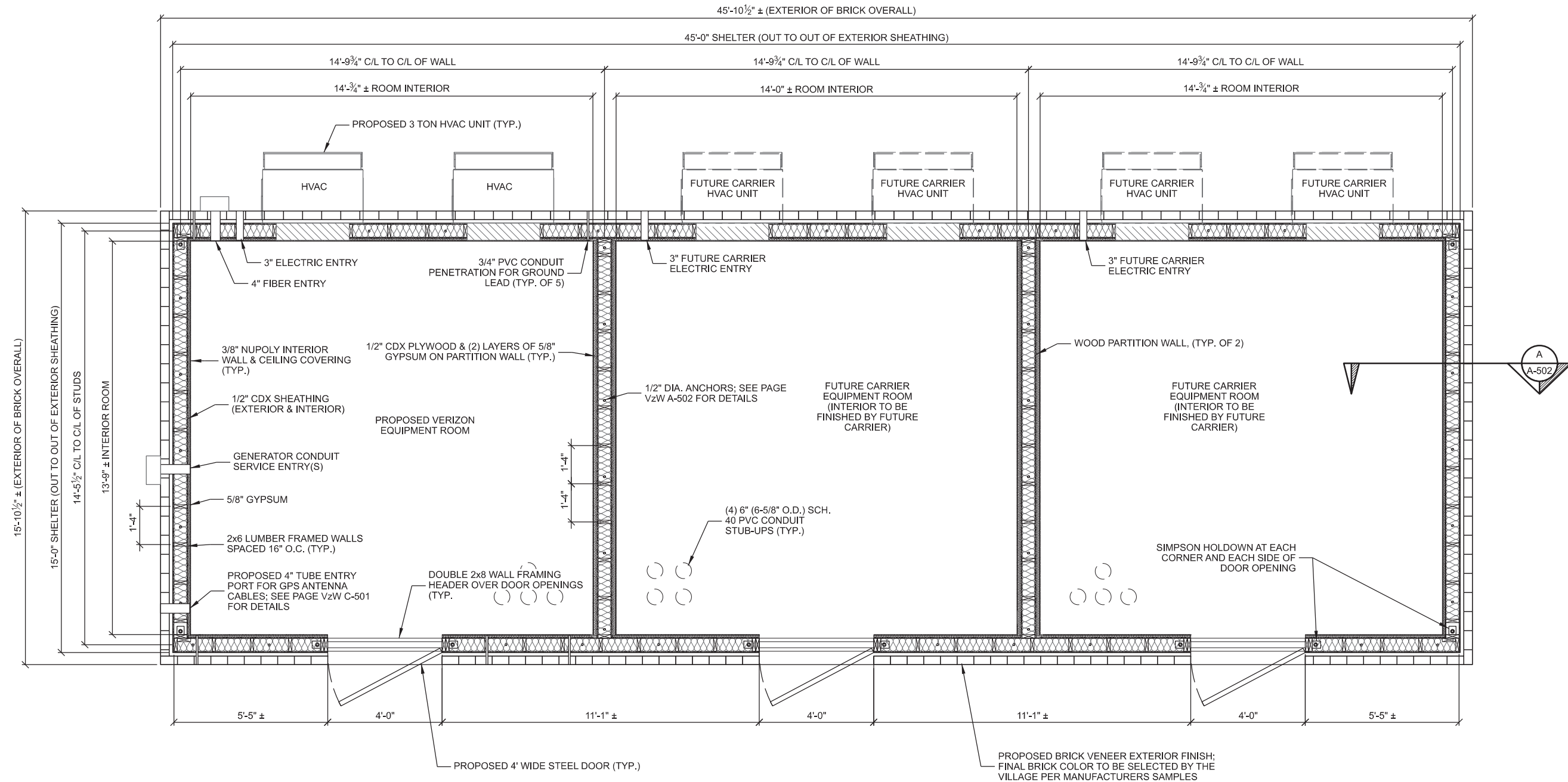
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**SHELTER FOUNDATION PLAN**  
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SUSSEX, WISCONSIN

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SHEET NUMBER:		VzW A-101



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NOTE:  
G.C. TO VERIFY LOCATION OF UTILITY CONDUIT ENTRY  
G.C. TO VERIFY LOCATION OF COAX CONDUIT STUB-UPS  
INSIDE SHELTER; CONDUIT STUB-UPS AT TOWER BASE TO  
BE IN-LINE WITH TOWER BELL PENETRATIONS

BUILDING ROOF 12" OVERHANG  
NOT SHOWN FOR CLARITY

**A SHELTER FRAMING PLAN**  
SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"

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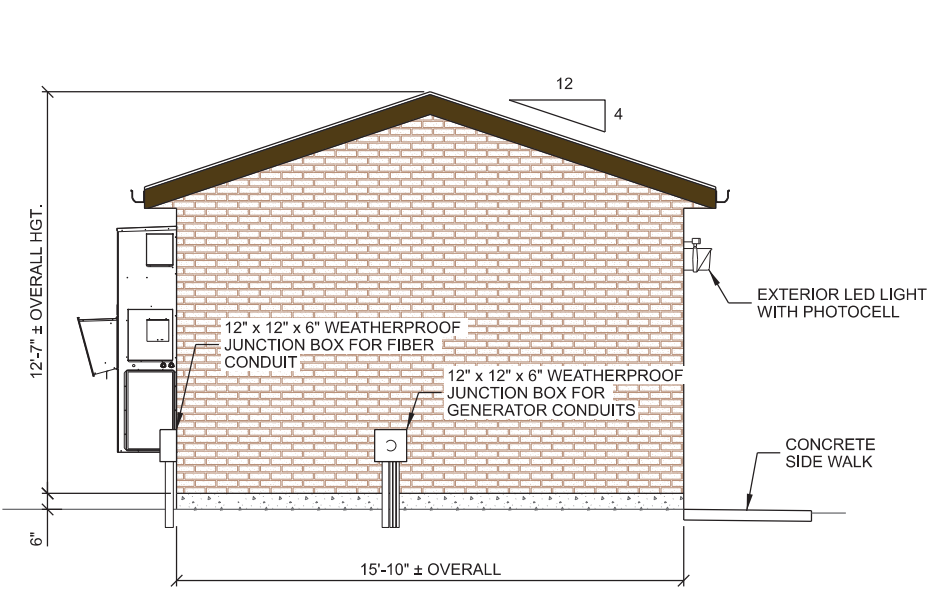
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**SHELTER FRAMING PLAN**  
HWY 164 & K (FUZE # 16805550)  
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SET TYPE:		DRAFT
SHEET NUMBER:		<b>VzW A-102</b>

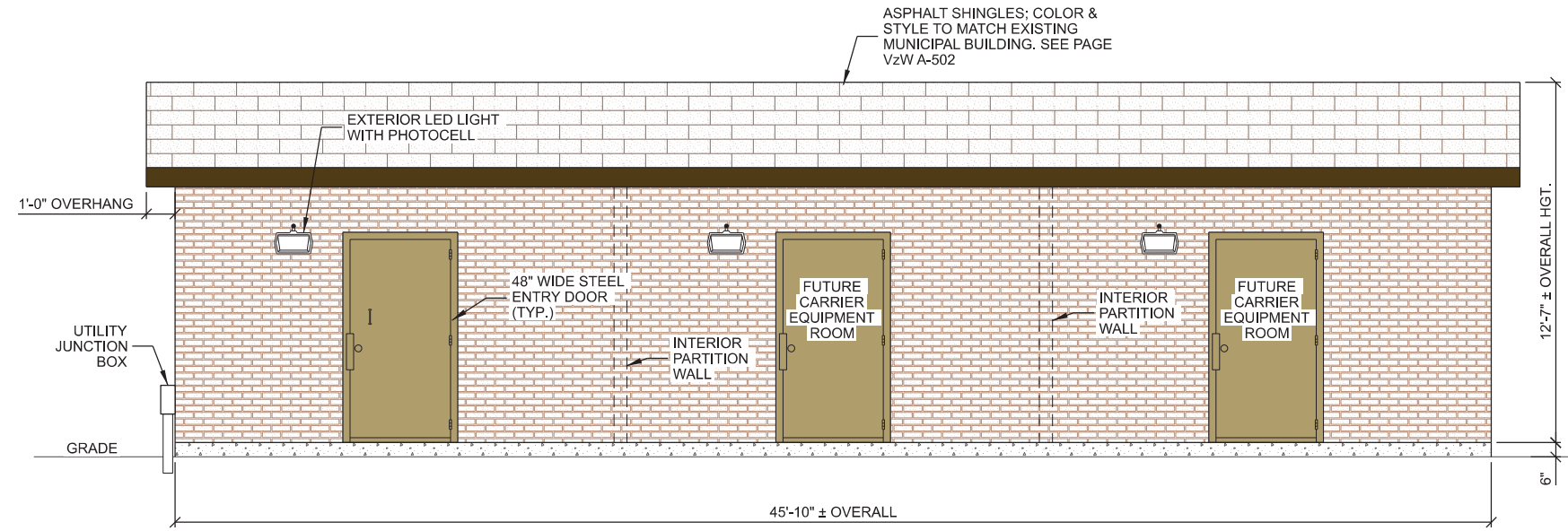


SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:	PCM	
PLOT DATE:	10/20/2023	
PROJECT NUMBER:	32691	
SET TYPE:	DRAFT	
SHEET NUMBER:	VzW A-201	

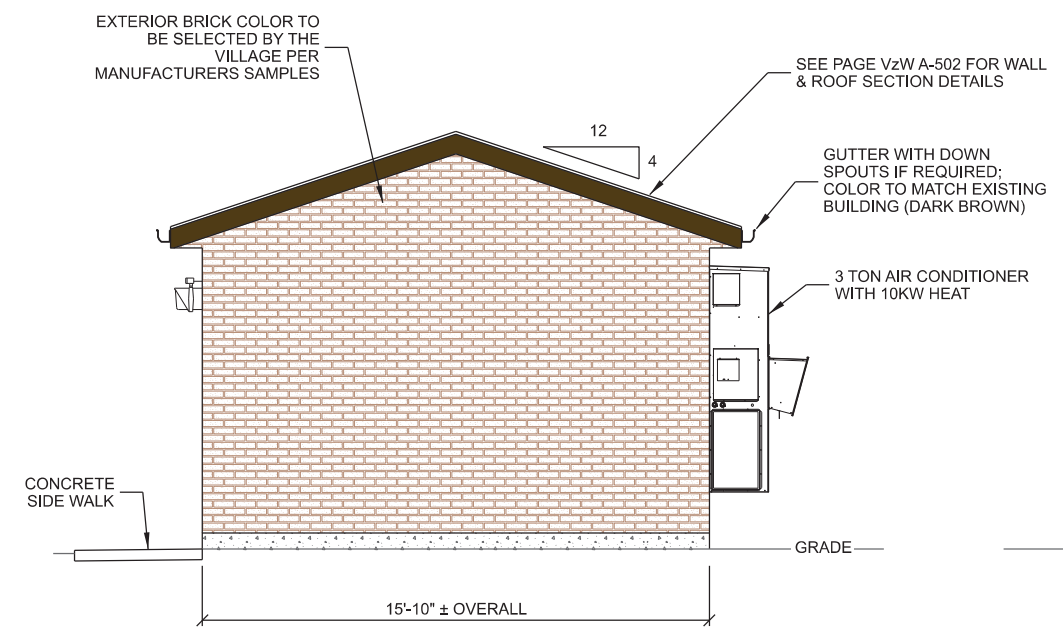


**A SOUTH SHELTER ELEVATION**

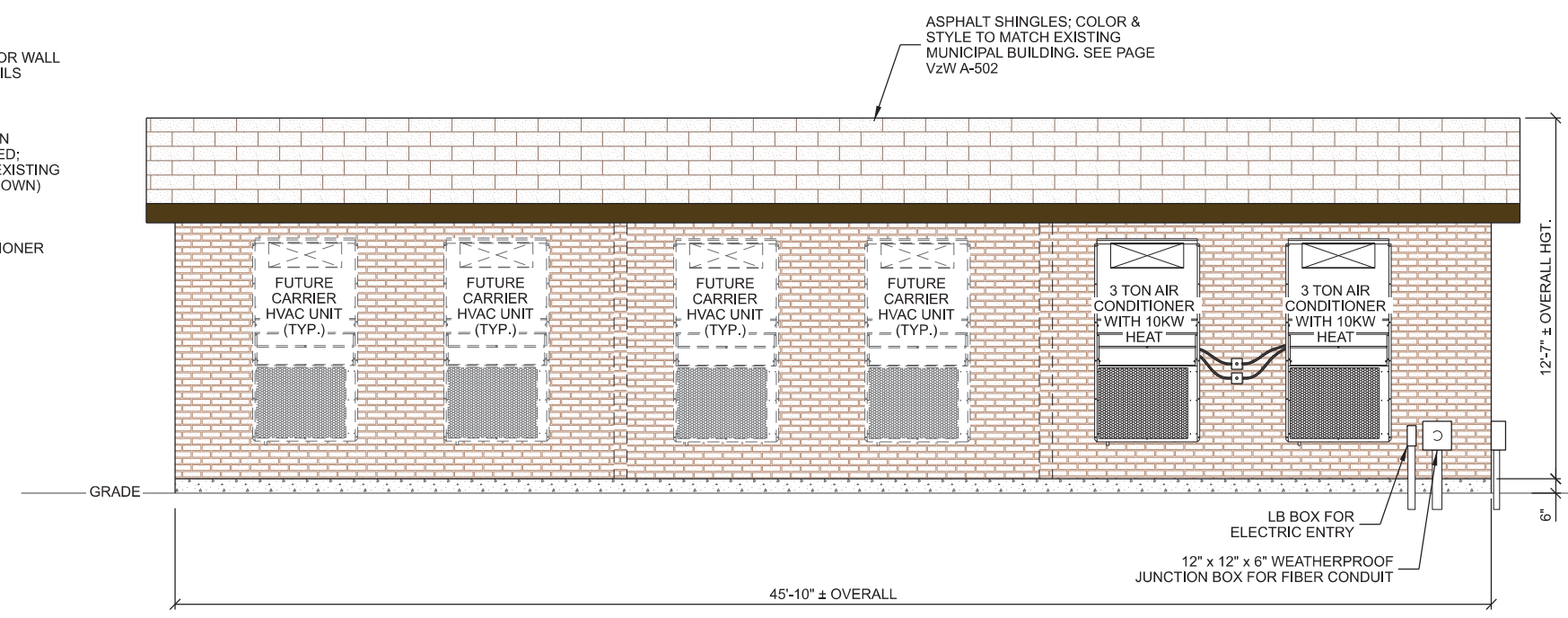
EXTERIOR FINISH SCHEDULE	
SHINGLES:	MATCH TO EXISTING BUILDING
SIDING:	BRICK VENEER
SOFFIT:	DARK BROWN
DOOR:	MATCH TO EXISTING BUILDING
GUTTER:	DARK BROWN



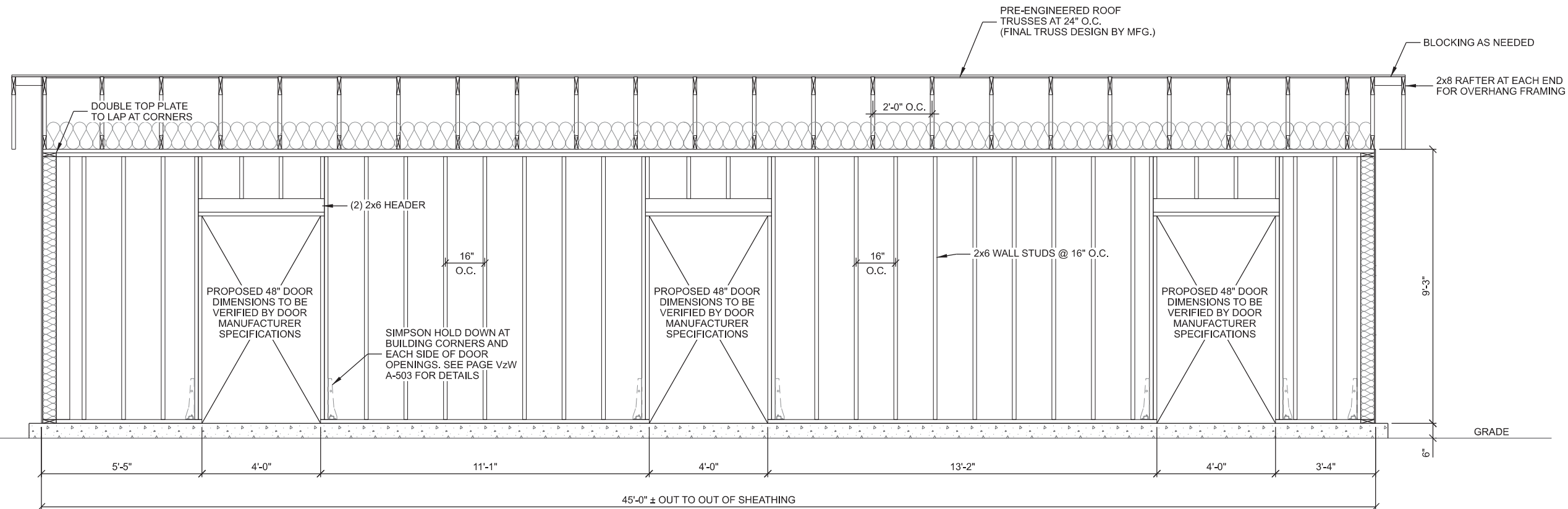
**B EAST SHELTER ELEVATION**



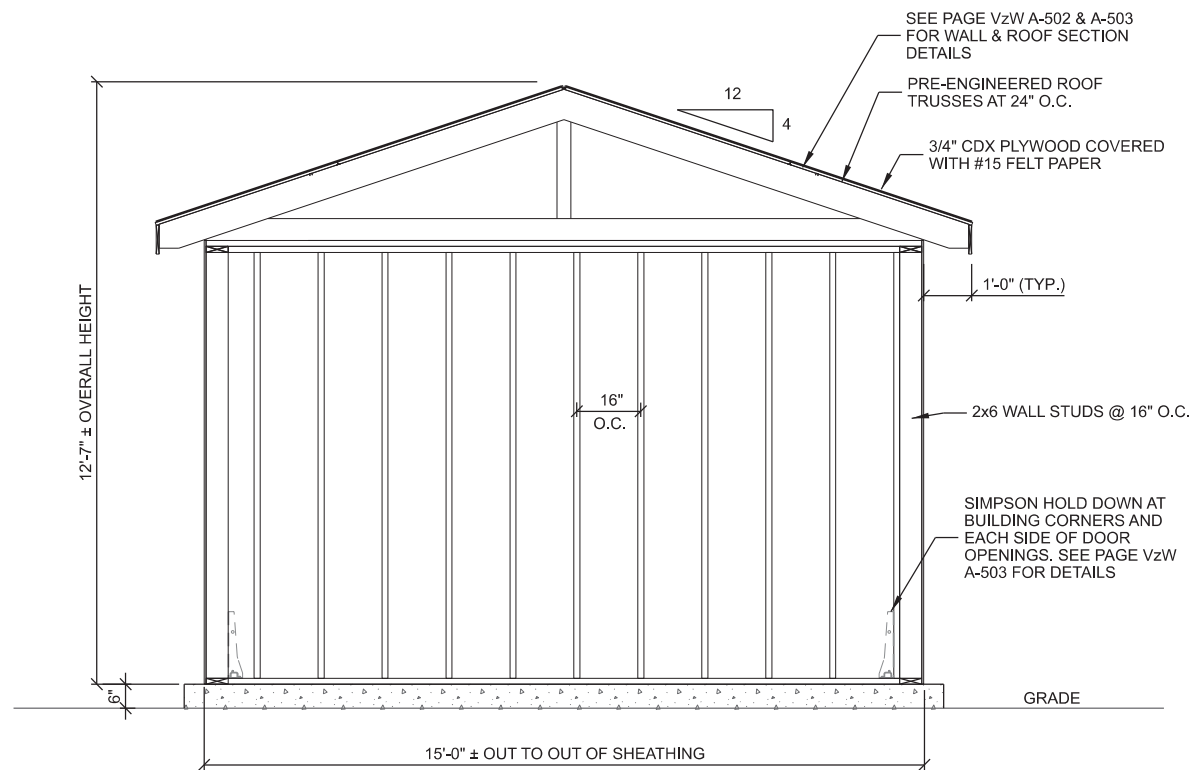
**C NORTH SHELTER ELEVATION**



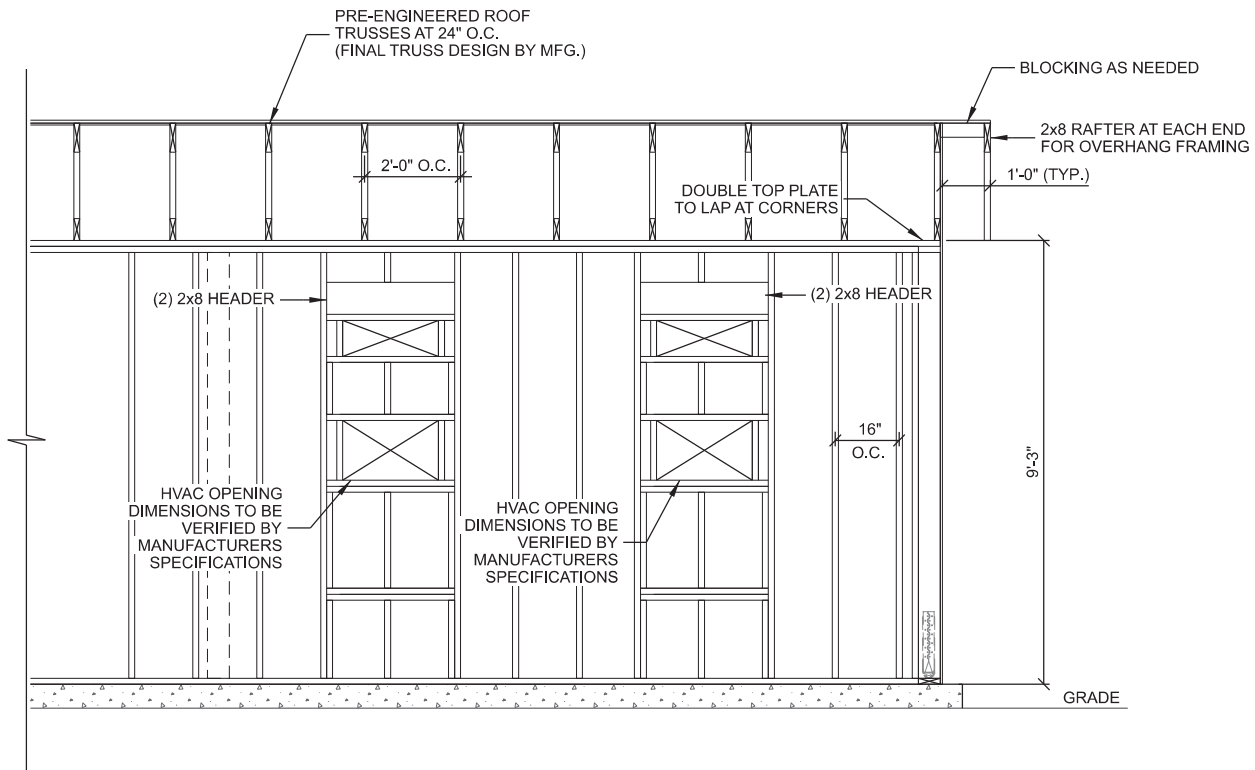
**D WEST SHELTER ELEVATION**



**A EAST FRAMING ELEVATION**  
SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"



**B SOUTH FRAMING ELEVATION**  
SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"



**C PARTIAL WEST FRAMING ELEVATION**  
SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**SHELTER FRAMING ELEVATIONS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

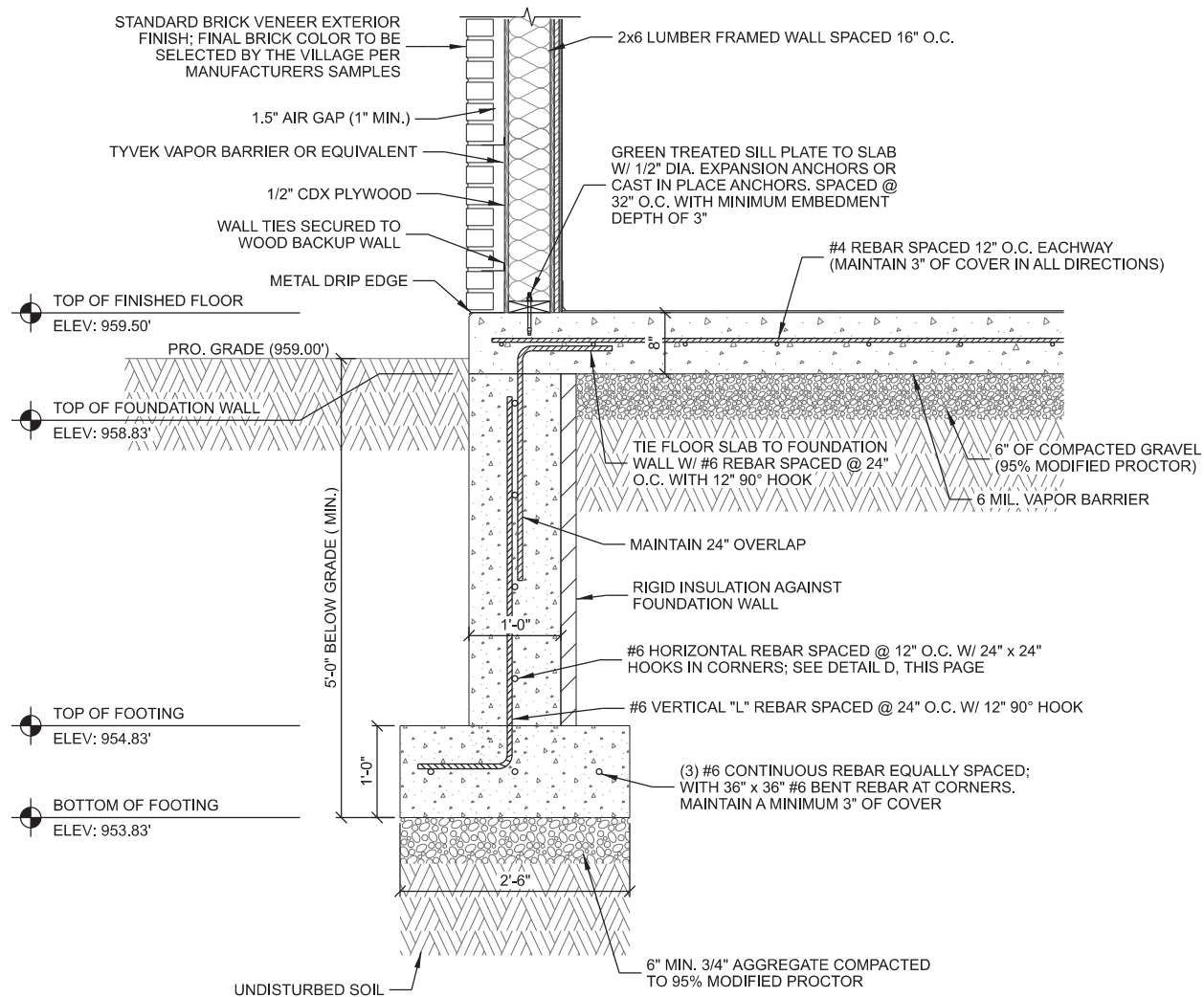
SHEET NUMBER: **VzW A-202**

COMPRESSIVE STRENGTH OF CONCRETE MASONRY  
UNITS AND TYPE OF MORTAR USED IN CONSTRUCTION

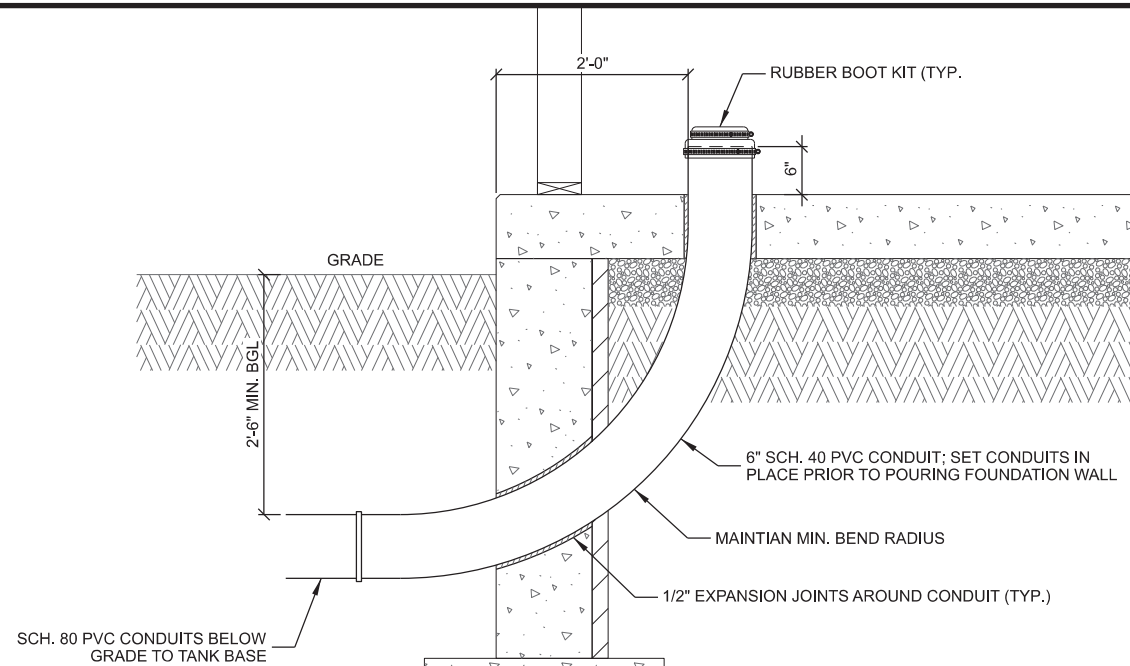
TYPE "N" / S" MORTAR	TYPE "M" MORTAR	NET AREA COMPRESSIVE STRENGTH*
1250	1300	1000
1900	2150	1500
2800	3050	2000
3750	4050	2500
4800	5250	3000

\* FOR UNITS OF LESS THAN 4" HEIGHT, USE 85  
PERCENT OF THE VALUES LISTED

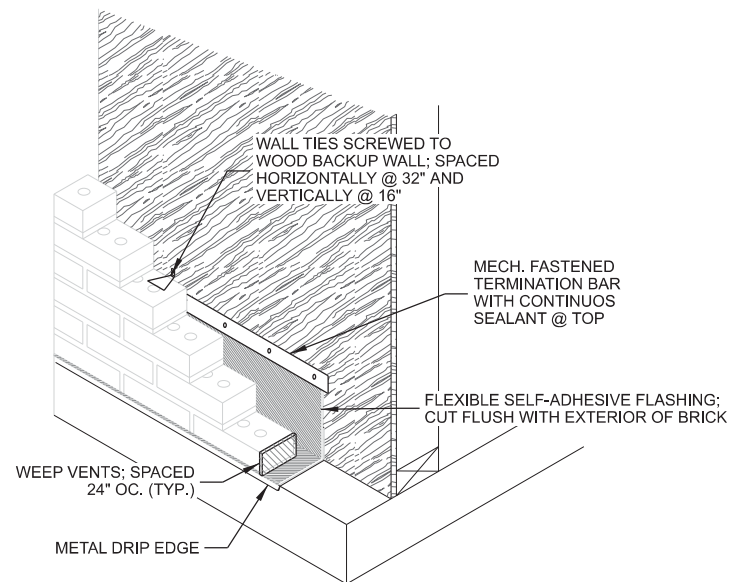
SEE PAGE VzW A-502 FOR TOP OF WALL  
AND ROOF FRAMING DETAILS



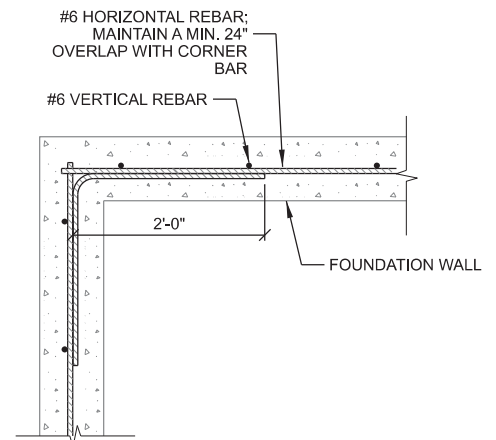
**A SHELTER FOUNDATION DETAIL**  
SCALE: 11" x 17" - 1/2" = 1'-0"  
22" x 34" - 1" = 1'-0"



**B COAX CONDUIT STUB-UP DETAIL**  
SCALE: 11" x 17" - 1/2" = 1'-0"  
22" x 34" - 1" = 1'-0"



**C TYP. FLASHING DETAIL**  
SCALE: NTS



**D TYP. FND WALL CORNER**  
SCALE: NTS

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**SHELTER FOUNDATION DETAILS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

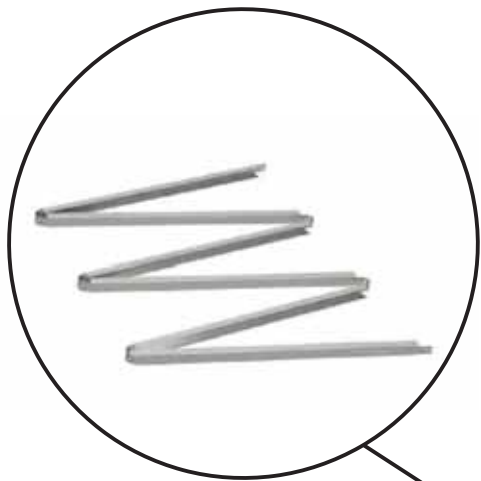
PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW A-501**

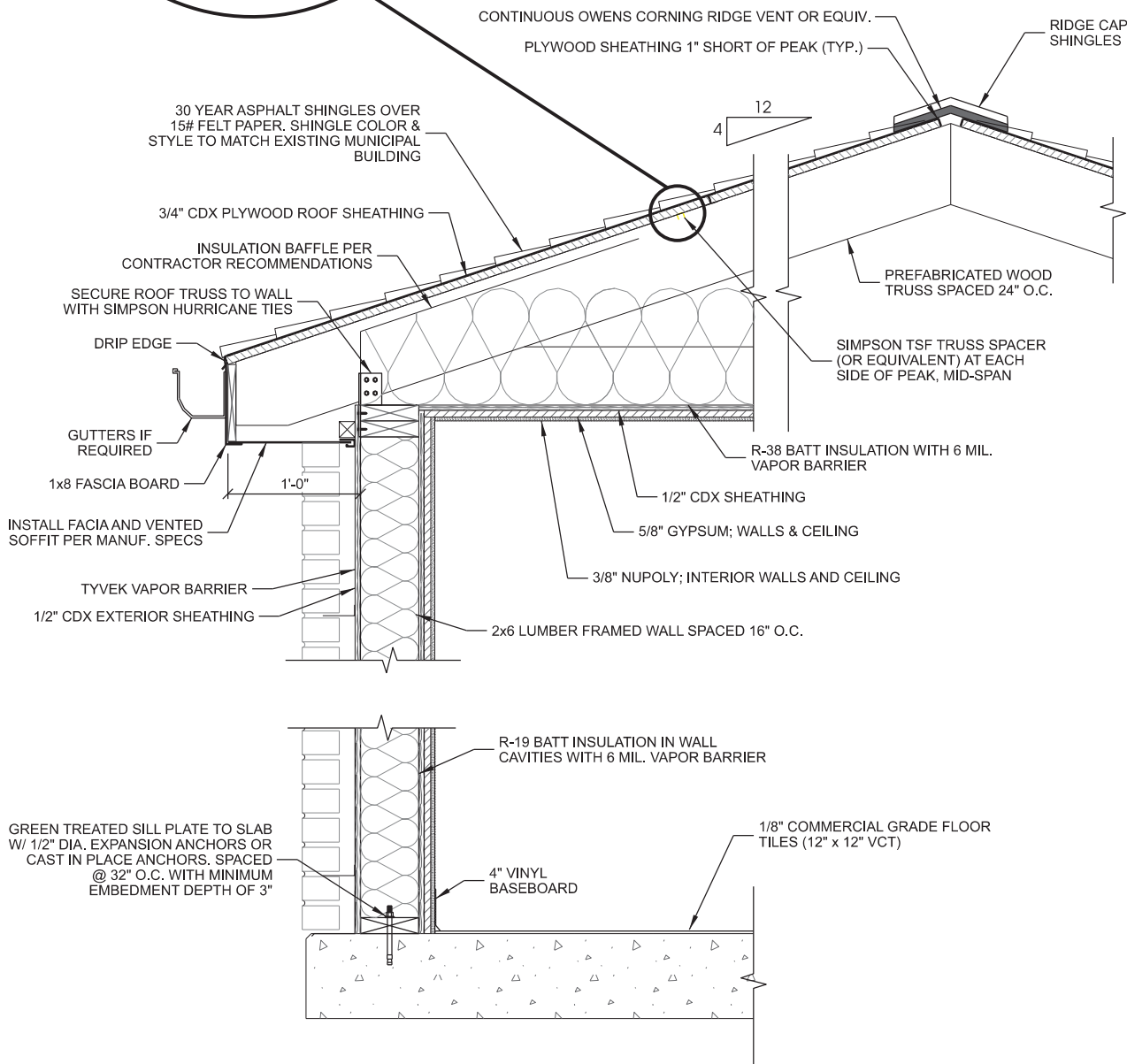




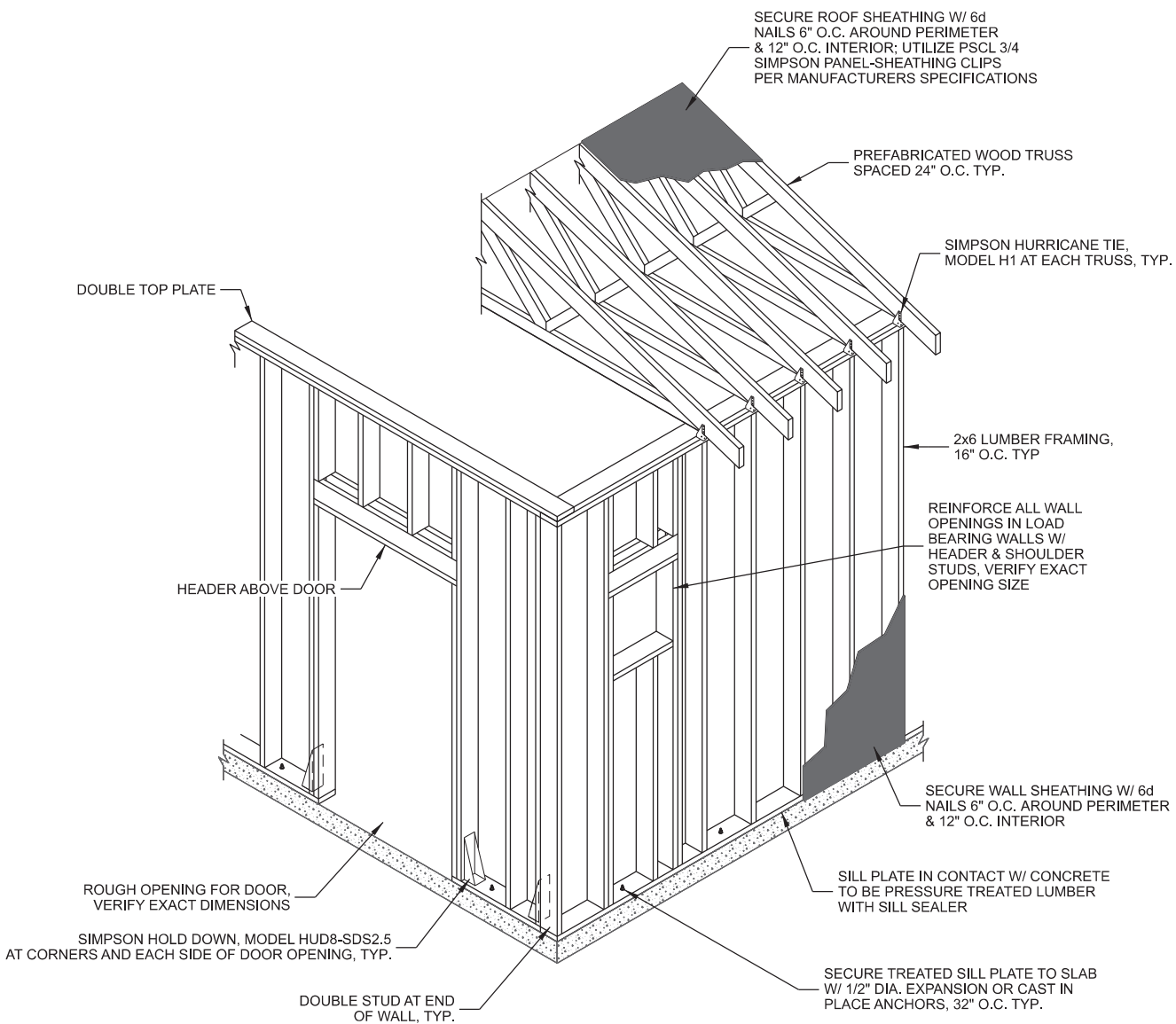
- FRAMING NOTE:
- WOOD FRAMING CONNECTIONS NOT SPECIFICALLY CALLED OUT IN THE PLANS SHALL BE PER THE FASTENING SCHEDULE, TABLE 2304.9.1, PER THE WISCONSIN ENROLLED COMMERCIAL BUILDING CODE
  - ALL SIMPSON CONNECTORS SHALL BE ZMAX (G185) OR HOT-DIP GALVANIZED (HDG)

INTERIOR FINISH SCHEDULE	
FLOOR TILE:	OFF WHITE, SPECKLED
BASE BOARD:	DARK GRAY

- WOOD CONSTRUCTION NOTES:
- CONTRACTOR TO FOLLOW AMERICAN WOOD COUNCIL (AWC) WOOD FRAME CONSTRUCTION MANUAL.
1. TIMBER DESIGN & INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
  2. ALL CONNECTIONS SHALL HAVE A CORROSION RESISTANT COATING APPLIED.
  3. ALL SIZES SHOWN FOR TIMBER MEMBERS ARE STANDARD NOMINAL DIMENSIONS.
  4. ALL 2x12 AND LARGER TIMBER MEMBERS SHALL BE SOUTHERN PINE No. 2 OR BETTER. ALL OTHER MEMBERS MAY BE SPRUCE-PINE-FIR No. 2 OR BETTER. IF SPECIFIC SPECIES AND GRADE OF LUMBER IS UNAVAILABLE, CONTACT STRUCTURAL ENGINEER FOR SUITABLE SUBSTITUTIONS.
  5. PLYWOOD SHEATHING TO BE GRADED APA STRUCTURAL 1.
  6. ALL EXTERIOR EXPOSED TIMBER MEMBERS AND INTERIOR MEMBERS IN CONTACT W/ CONCRETE OR OTHERWISE NOTED TO BE PRESSURE TREATED WITH A NON-ARSENATE COMPOUND.
  7. ALL BOLTS, LAG SCREWS, AND NAILS SHALL HAVE A HOT DIP GALVANIZED FINISH.
  8. ALL SIMPSON CONNECTORS SHALL BE ZMAX (G185) OR HOT-DIP GALVANIZED (HDG).
  9. ROOF TRUSSES TO BE DESIGNED BY THE TRUSS MANUFACTURER PER THE REQUIREMENTS OF THE STATE ENROLLED BUILDING CODE AND THE BUILDING PLANS. SUPPLIER TO PROVIDE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SECTION 2303.4.1.
  10. THE CONTRACTOR SHALL SUBMIT FOR REVIEW PRIOR TO CONSTRUCTION (1) ONE SET OF CONSTRUCTION PLANS PROVIDED BY THE ROOF TRUSS PROVIDER.
  11. THE INSTALLATION OF BOLTS IN TIMBER MEMBERS SHALL MEET THE REQUIREMENTS OF ANSI/ASME STANDARD B18.2.1.
  12. BOLT HOLES IN TIMBER MEMBERS SHALL BE A MIN. OF 1/32" TO A MAX. OF 1/16" LARGER THAN THE BOLT DIAMETER. HOLES SHALL BE ACCURATELY ALIGNED IN MAIN AND SIDE MEMBERS. BOLTS SHALL NOT BE FORCIBLY DRIVEN.
  13. A STANDARD CUT WASHER, METAL PLATE OR STAMPED STEEL STRAP OR PLATE, OF SIZE NOT LESS THAN THE STANDARD CUT WASHER, SHALL BE BETWEEN THE WOOD AND THE BOLT HEAD AND BETWEEN THE WOOD AND THE NUT.



**A** SHELTER WALL & ROOF SECTION DETAIL  
SCALE: NTS



**B** TYP. SHELTER WALL FRAMING  
SCALE: NTS

CONSULTANT:

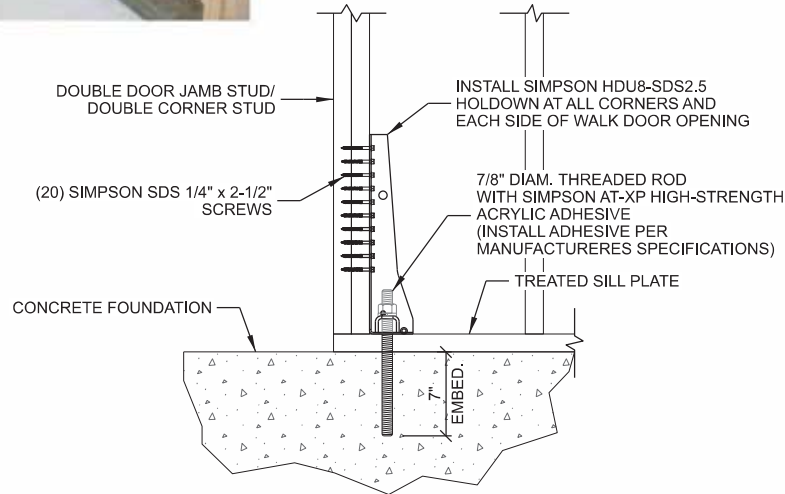
**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

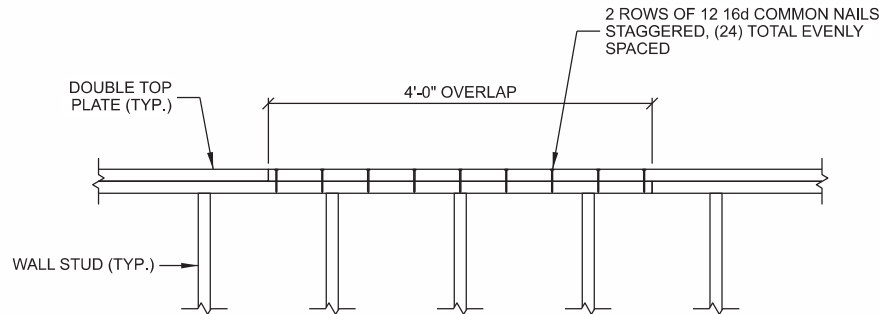
**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**SHELTER FRAMING DETAILS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

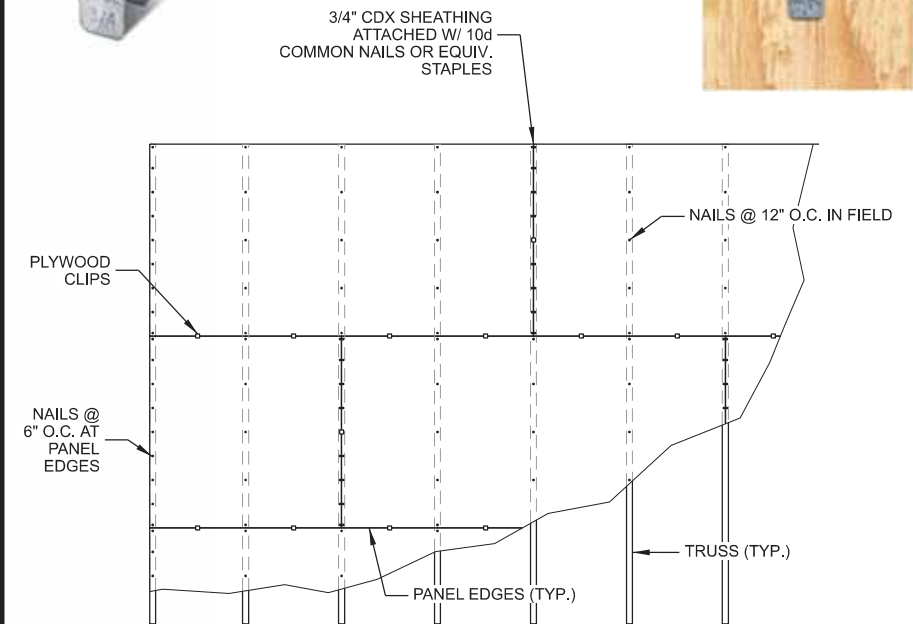
SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:	PCM	
PLOT DATE:	10/20/2023	
PROJECT NUMBER:	32691	
SET TYPE:	DRAFT	
SHEET NUMBER:	VzW A-502	



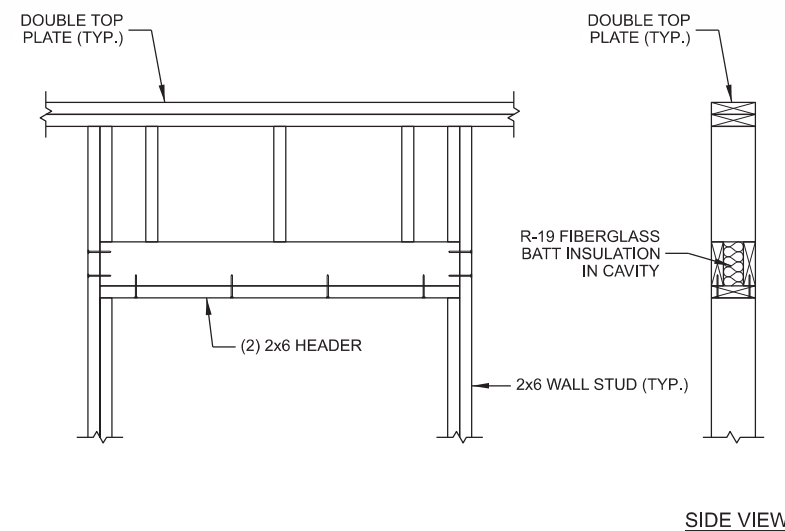
**A** **HOLDDOWN DETAIL**  
SCALE: NTS



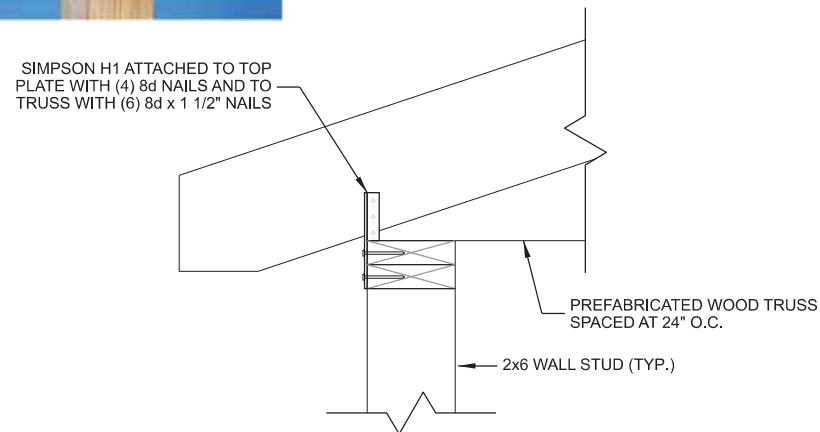
**B** **TOP PLATE SPLICE DETAIL**  
SCALE: NTS



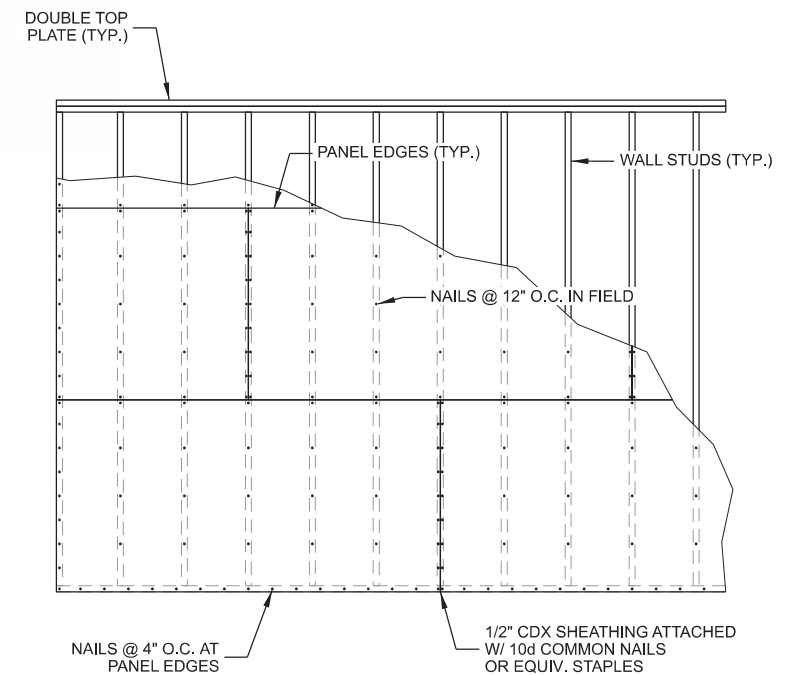
**C** **UNBLOCKED WOOD ROOF DIAPHRAGM NAILING**  
SCALE: NTS



**D** **HEADER DETAIL**  
SCALE: NTS



**E** **TRUSS TO WALL DETAIL**  
SCALE: NTS



**F** **UNBLOCKED WOOD WALL DIAPHRAGM NAILING**  
SCALE: NTS

CONSULTANT:  
**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
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www.edgeconsult.com

CLIENT:  
**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**SHELTER FRAMING DETAILS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:		PCM
PLOT DATE:		10/20/2023
PROJECT NUMBER:		32691
SET TYPE:		DRAFT
SHEET NUMBER:		<b>VzW A-503</b>

NHH-65C-R2B



6-port sector antenna, 2x 698–896 and 4x 1695–2360 MHz, 65° HPBW, 2x RET. Both high bands share the same electrical tilt.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Internal SBT on low and high band allow remote RET control from the radio over the RF jumper cable
- Separate RS-485 RET input/output for low and high band
- One RET for low band and one RET for both high bands to ensure same tilt level for 4x Rx or 4x MIMO

Electrical Specifications

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain, dBi	16.0	16.1	17.3	17.7	18.3	18.2
Beamwidth, Horizontal, degrees	65	62	74	66	62	59
Beamwidth, Vertical, degrees	9.0	7.9	5.6	5.2	4.9	4.5
Beam Tilt, degrees	0–11	0–11	0–7	0–7	0–7	0–7
USLS (First Lobe), dB	21	18	19	20	22	18
Front-to-Back Ratio at 180°, dB	35	31	33	29	29	30
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	30	30	30	30
VSWR   Return Loss, dB	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0	1.5   14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	400	400	350	350	350	300
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA\*

Frequency Band, MHz	698–806	806–896	1695–1880	1850–1990	1920–2200	2300–2360
Gain by all Beam Tilts, average, dBi	15.8	15.9	16.9	17.5	18.0	17.9
Gain by all Beam Tilts Tolerance, dB	±0.4	±0.4	±0.4	±0.3	±0.6	±0.4
Gain by Beam Tilt, average, dBi	0°   15.9 5°   15.9 11°   15.5	0°   15.8 5°   16.0 11°   15.7	0°   16.9 4°   17.0 7°   16.9	0°   17.4 4°   17.5 7°   17.4	0°   17.9 4°   18.0 7°   18.0	0°   17.8 4°   17.9 7°   17.9
Beamwidth, Horizontal Tolerance, degrees	±1.2	±1.6	±5.3	±3.4	±6	±3.1
Beamwidth, Vertical Tolerance, degrees	±0.6	±0.4	±0.3	±0.2	±0.2	±0.2
USLS, beampeak to 20° above beampeak, dB	15	14	17	16	17	15
Front-to-Back Total Power at 180° ± 30°, dB	26	24	28	25	25	24
CPR at Boresight, dB	18	26	20	25	20	17
CPR at Sector, dB	15	9	11	10	8	2

\* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, [download the whitepaper Time to Raise the Bar on BSAs](#).

NHH-65C-R2B

Band	Multiband
Performance Note	Outdoor usage
Total Input Power, maximum	500 W @ 50 °C

Mechanical Specifications

RF Connector Quantity, total	6
RF Connector Quantity, low band	2
RF Connector Quantity, high band	4
RF Connector Interface	7-16 DIN Female
Color	Light gray
Grounding Type	RF connector body grounded to reflector and mounting bracket
Radiator Material	Copper   Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Location	Bottom
Wind Loading, frontal	393.0 N @ 150 km/h 88.3 lbf @ 150 km/h
Wind Loading, lateral	330.0 N @ 150 km/h 74.2 lbf @ 150 km/h
Wind Loading, maximum	757.0 N @ 150 km/h 170.2 lbf @ 150 km/h
Wind Speed, maximum	241 km/h   150 mph

Dimensions

Length	2438.0 mm   96.0 in
Width	301.0 mm   11.9 in
Depth	180.0 mm   7.1 in
Net Weight, without mounting kit	23.4 kg   51.6 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10–30 Vdc
Internal Bias Tee	Port 1   Port 3
Internal RET	High band (1)   Low band (1)
Power Consumption, idle state, maximum	2 W
Power Consumption, normal conditions, maximum	13 W
Protocol	3GPP/4G 2.0 (Single RET)
RET Interface	8-pin DIN Female   8-pin DIN Male
RET Interface, quantity	2 female   2 male

CONSULTANT:



CLIENT:



CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

ANTENNA SPECIFICATIONS  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	VzW T-001

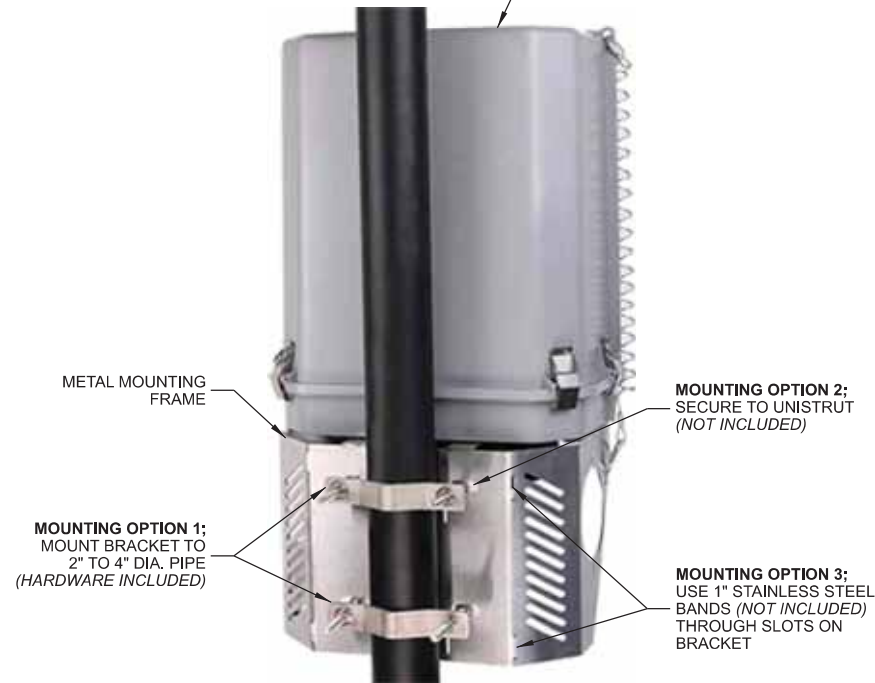






**MANUFACTURER:** RAYCAP  
**MODEL:** MOUNTING BRACKET  
INCLUDED WITH RAYCAP SPD.

RAYCAP SURGE  
— PROTECTOR DEVICE  
(SPD)

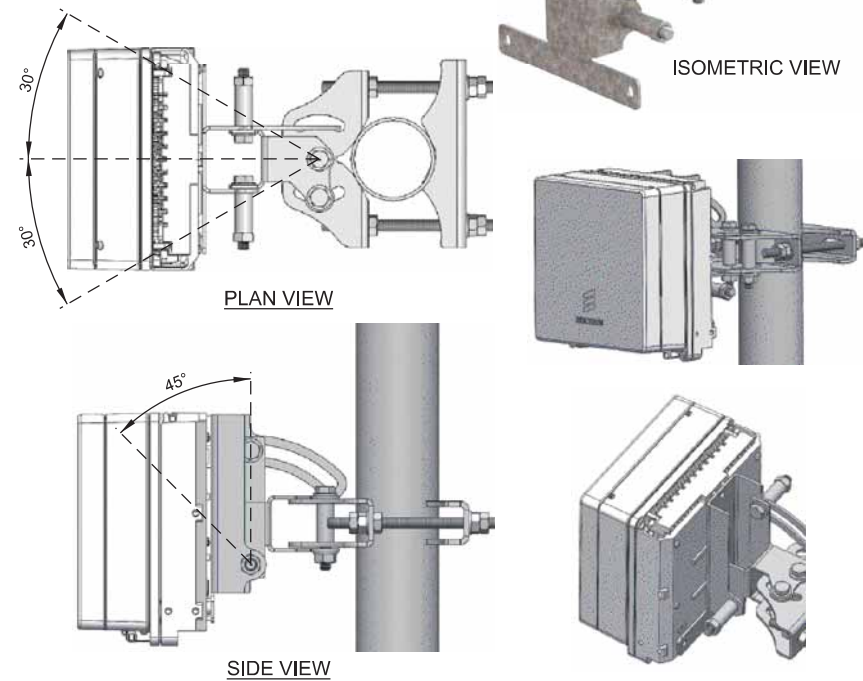


## **A RAYCAP SURGE PROTECTOR DEVICE (SPD) MOUNT**

**MANUFACTURER:** ERICSSON  
**MODEL:** SXX 109 2165/1  
**WEIGHT:** 6 LBS

BRACKET FOR ATTACHING MICRO ERS  
UNITS TO A POLE, WALL, ANGLE TOWER  
OR SQUARE TUBE.

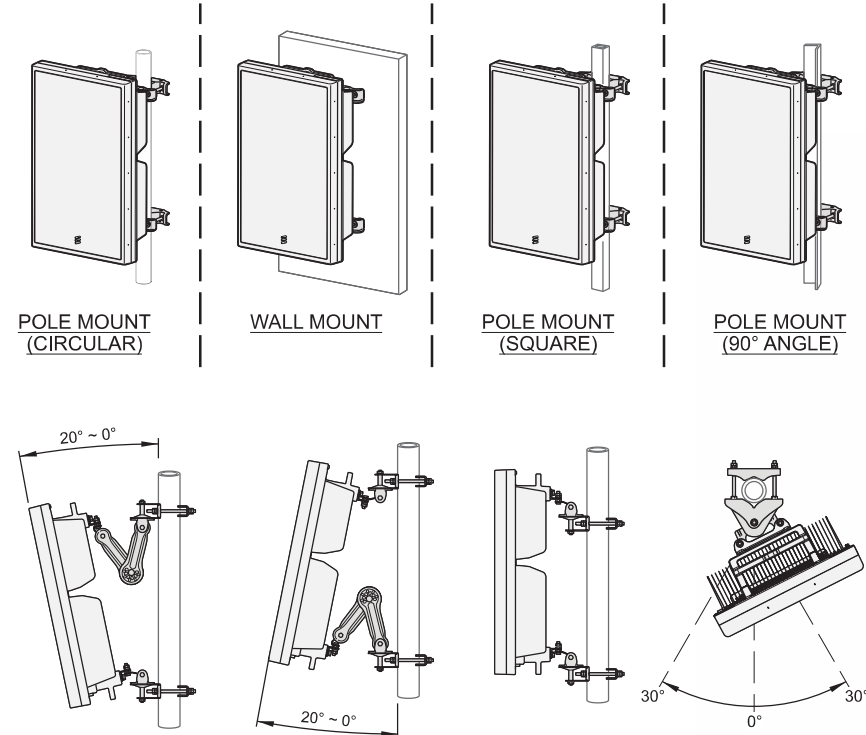
TO BE USED WITH MICRO ERS RADIOS



## C MICRO ERS TILT BRACKET

**MANUFACTURER:** ERICSSON  
**MODEL:** SXK 109 2064/1 (SWIVEL ANGLE)  
 SXK 109 2065/1 (SWIVEL ANGLE AND TILT ANGLE)  
**WEIGHT:** 9.7 LBS. (SWIVEL ANGLE)  
 13.0 LBS. (SWIVEL ANGLE AND TILT ANGLE)

POLE	CICULAR	SQUARE	90° ANGLE
MIN. OUTER DIMENSION	3" DIA.	2" x 2"	2" x 2"
MAX. OUTER DIMENSION	4.5" DIA.	3.15" x 3.15"	3.15" x 3.15"

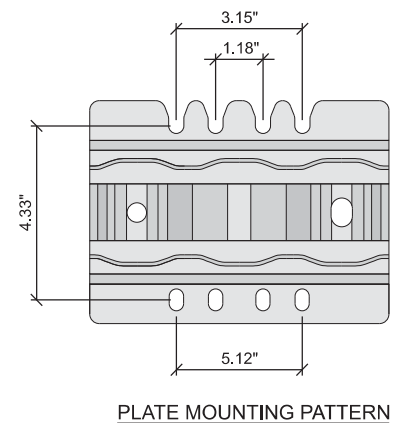


## B ERICSSON SWIVEL MOUNT KIT

**MANUFACTURER:** ERICSSON  
**MODEL:** SXK 109 1973/2  
**WEIGHT:** 3.75 LBS

BRACKET FOR ATTACHING TWO STANDARD OR HEAVY ERS UNITS WITH A HOLE PATTERN OF CC 30 MM AND/OR CC 80 MM., EITHER TO A POLE, WALL, ANGLE TOWER OR SQUARE TUBE.

BOLTS FOR ATTACHING TWO ERS UNITS ARE SUPPLIED IN THE PACKAGE.



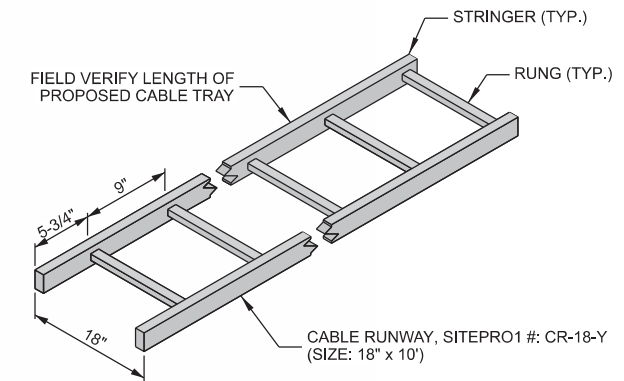
## D DUAL ERS BRACKET

**NOTE:**

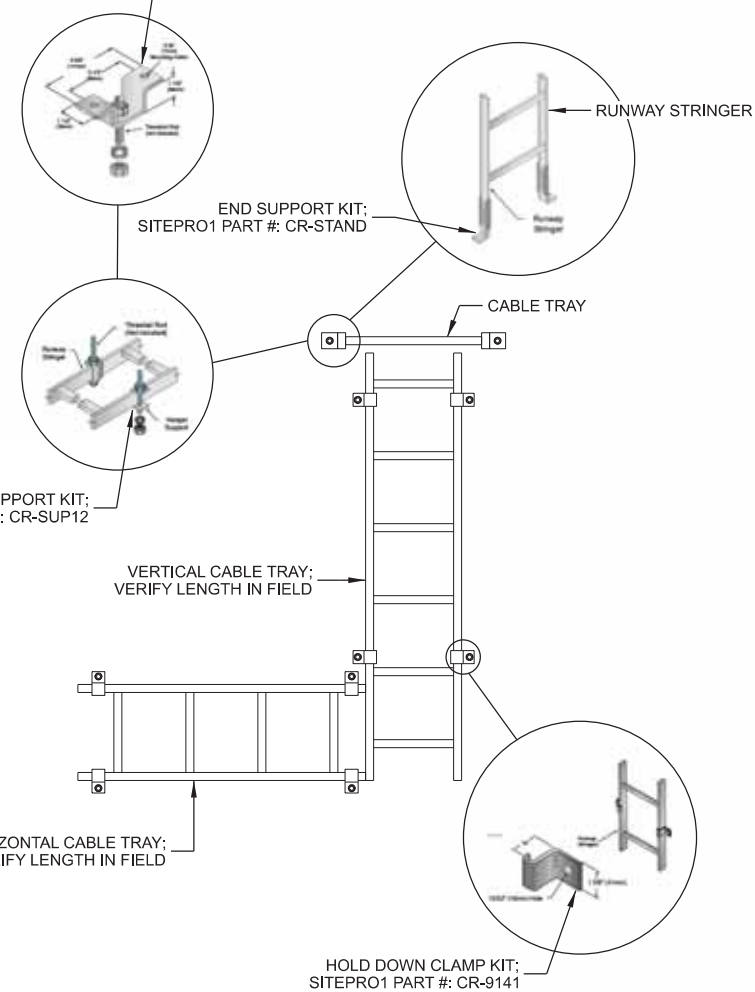
3/8" x 1-1/2" TUBULAR STEEL  
STRINGER  
1/2" x 1" WELDED STEEL RINGS  
SITEPRO1 PART #: CR-18-Y OR  
APPROVED EQUIVALENT.

RUNWAY SUPPORT KIT; SITEPRO 1  
PART #: CR-SUP12 OR APPROVED  
EQUIVALENT

CEILING HANGING KIT; SITEPRO 1  
PART # CR-HANG12 OR APPROVED  
EQUIVALENT



CEILING HANGING KIT;  
SITEPRO1 PART #: CR-HANG12



## E CABLE TRAY DETAIL

CONSULTANT:



CLIENT:



**MOUNTING SPECIFICATIONS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED

PCM

PLOT

10/00/0000

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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NUMBER

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TYPE

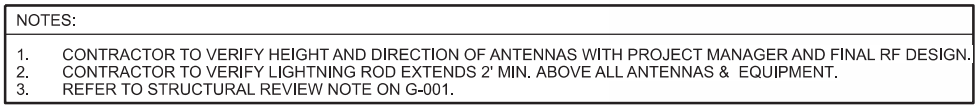
DRAFT

☒ YES ☐ NO

Date: 11/28/2022

PER VILLAGE OF SUSSEX:

TOUCH UP PAINTING ON THE TOWER AFTER  
INSTALLATION NEEDS TO BE COMPLETED BY  
THE VILLAGE'S MAINTENANCE CONTRACTOR  
WITH THE BILL FOR THE COSTS GOING TO  
VERIZON



I:\32600\32691\Design\CAD\CD\Plot\VzW\_T-201.dgn



CLIENT:

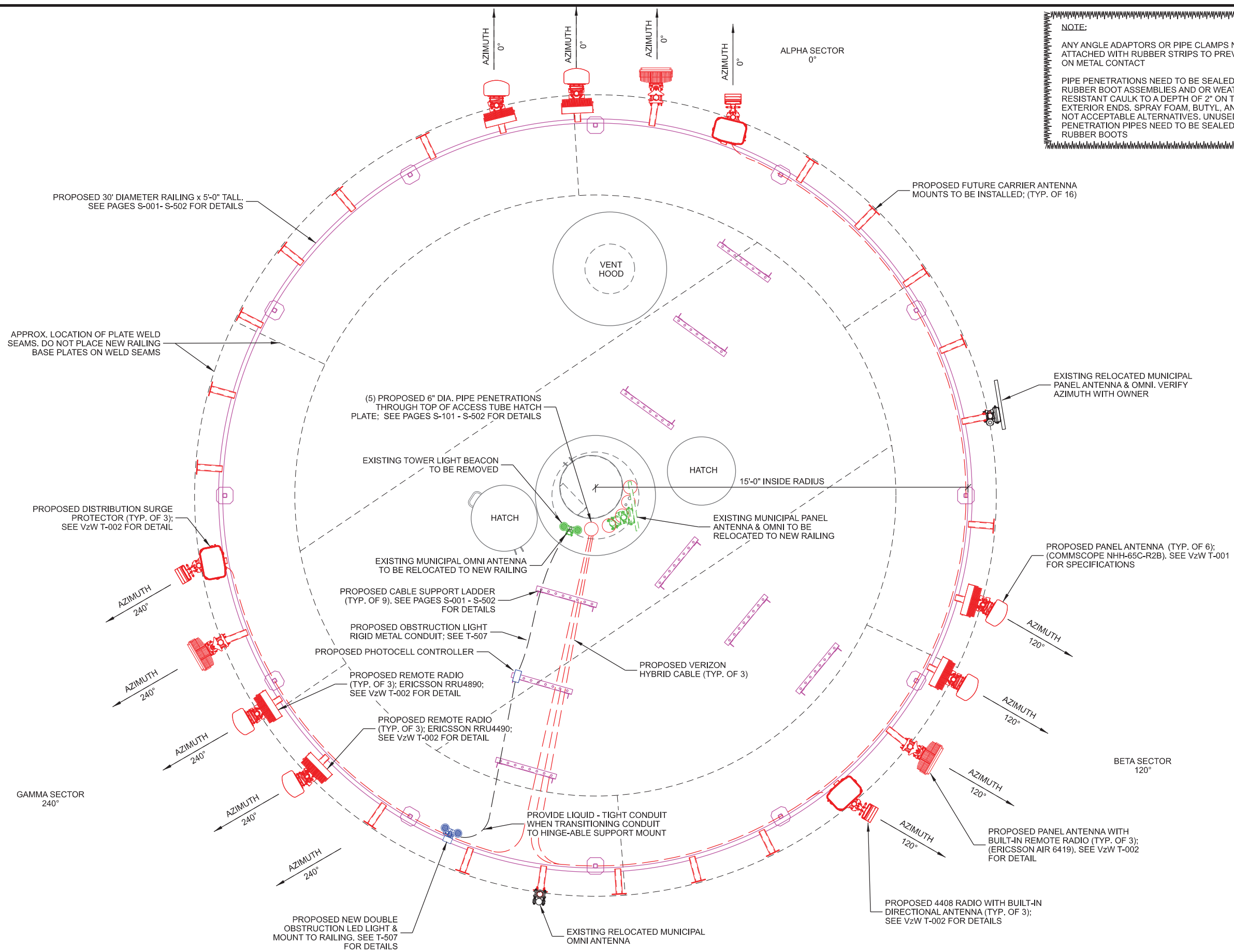
**verizon** 

CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	<b>VzW T-201</b>



NORTH



NOTE:

ANY ANGLE ADAPTORS OR PIPE CLAMPS NEED TO BE ATTACHED WITH RUBBER STRIPS TO PREVENT METAL ON METAL CONTACT

PIPE PENETRATIONS NEED TO BE SEALED WITH RUBBER BOOT ASSEMBLIES AND OR WEATHER RESISTANT CAULK TO A DEPTH OF 2" ON THE EXTERIOR ENDS. SPRAY FOAM, BUTYL, AND TAPE ARE NOT ACCEPTABLE ALTERNATIVES. UNUSED PENETRATION PIPES NEED TO BE SEALED WITH SOLID RUBBER BOOTS

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**ANTENNA CONFIGURATION  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW T-301**

**A ANTENNA AND EQUIPMENT LAYOUT**

SCALE: 11" x 17" - 1/4" = 1'-0"  
22" x 34" - 1/2" = 1'-0"

NOTES:

- ALL ANTENNA AZIMUTHS TO BE FROM TRUE NORTH.
- SEE VzW T-501 FOR INSTALLATION REQUIREMENTS OF ANTENNAS AND EQUIPMENT.



R:\32690\32691\Design\CADD\CD\Plot\T-501.dgn

2-1/2" SCH. 40 (2-7/8" O.D.) x 108" LONG GALVANIZED ANTENNA MAST PIPE (TYP.)

PANEL ANTENNA (TYP.); SEE PAGE T-301 FOR QTY. AND LAYOUT

REMOTE RADIO (TYP.); SEE T-001 FOR DETAIL; SEE T-301 FOR QTY. AND LAYOUT

RAYCAP SPD (TYP.); SEE T-001 FOR DETAIL; SEE T-301 FOR QTY. AND LAYOUT

NEW RAILING; SEE STRUCTURAL ANALYSIS REF. ON G-001 FOR DETAILS

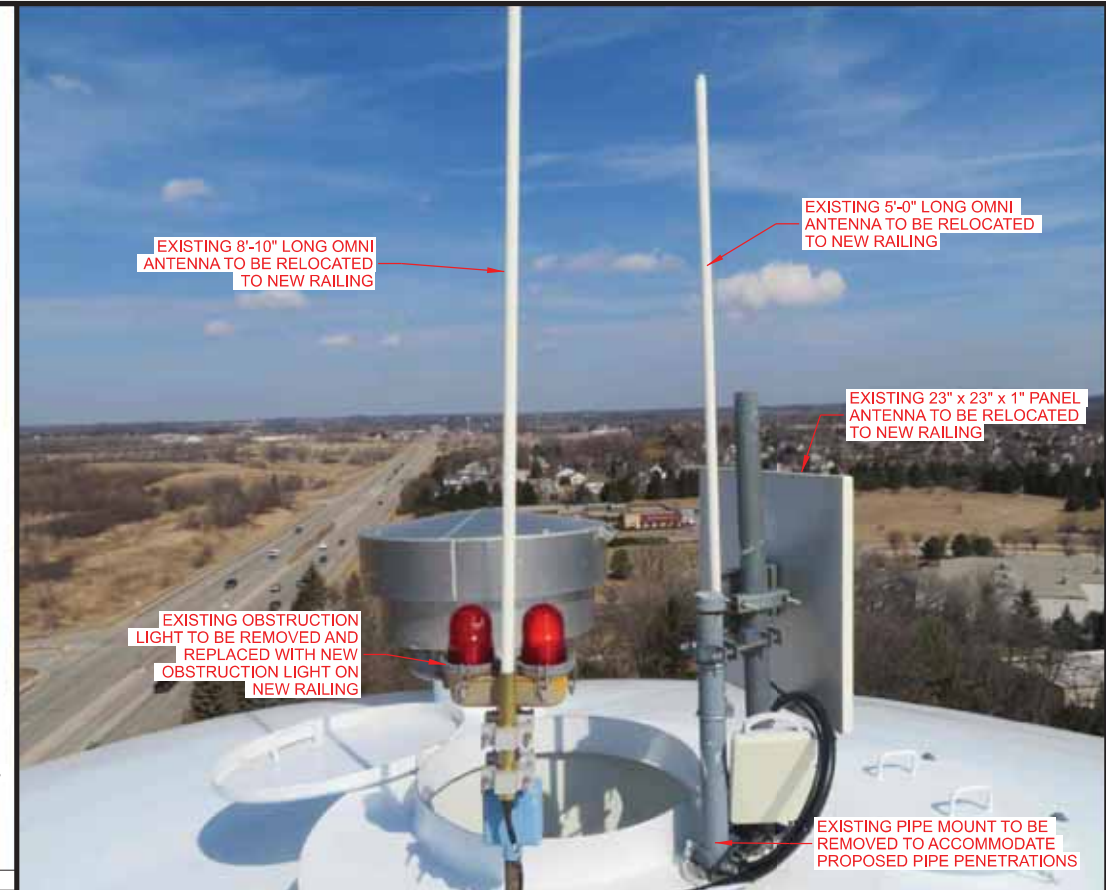
PROPOSED GROUND BAR AT EACH SECTOR (TYP.). SEE E-501 FOR DETAILS

ANTENNA SUPPORT BRACKET SECURED TO NEW RAILING; (TYP.). SEE PAGE S-501 FOR DETAILS

INTERIOR VIEW

A

(TYP.) RADIO EQUIPMENT INSTALLATION



B

EXISTING MUNICIPAL ANTENNAS TO BE RELOCATED



C

EXISTING MUNICIPAL ANTENNAS TO BE RELOCATED

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PRAIRIE DU SAC, WI 53578  
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CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**ANTENNA MOUNT AND INSTALLATION DETAILS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW T-501**

Antenna Summary

Added

700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
LTE	LTE 5G	LTE	LTE			COMMSCOPE,AND	NHH-65C-R2B	120	124	0(A) 120(B) 240(C)		false	PHYSICAL	6	000000001900056293
					5G	Ericsson	AIR6419	120	121.2	0(A) 120(B) 240(C)		false	PHYSICAL	3	
				LTE		ERICSSON	KRE105281/1	120	120.3	0(A) 120(B) 240(C)		false	PHYSICAL	3	

Removed

700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
No data available.															

Retained

700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Centerline	Tip Height	Azimuth	RET	4xRx	Inst. Type	Quantity	Item ID
No data available.															

Added: 12    Removed: 0    Retained: 0

NOTE:  
1. RF DESIGN AND DETAILS ON THIS SHEET PROVIDED BY VERIZON AND AR INCLUDED FOR CONVENIENCE ONLY. FINAL RF DESIGN TO BE VERIFIED WITH VERIZON PRIOR TO CONSTRUCTION. IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.



MIDWEST > Upper Midwest > Illinois/Wisconsin > Wisconsin > Hwy 164 and K - D  
RF Submit by: Patel, Dhwanil - dhwanil.patel@verizonwireless.com - 9/26/2023, 11:12:09 AM  
EE Submit by: Tutt, Bradley - bradley.tutt@verizonwireless.com - 9/28/2023, 3:04:21 PM

A ANTENNA SUMMARY

Equipment Summary

Added														
Equipment Type	Location	700	1900	AWS	AWS3	CBRS	L-Sub6	Make	Model	Cable Length	Cable Size	Install Type	Quantity	Item ID
Alarm	Tower							RAYCAPINC-001	3315-ALM-RS485			PHYSICAL	3	0000000019000070
Hybrid Cable	Tower							COMMSCOPET-001	HFT1206-24SV4-xxxG			PHYSICAL	3	
OVP Box	Tower							RAYCAPINC-001	RVZDC-3315-PF-48		1-5/8 inch	PHYSICAL	3	000000001900422
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	109142980			PHYSICAL	2	000000001900153
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	109149778			PHYSICAL	2	000000001900153
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	109157434			PHYSICAL	1	000000001900153
Power Plants	Ground (Outdoor)							GEMINI POWER SYSTEMS INC	109163473			PHYSICAL	10	1900436527
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	1600390862A			PHYSICAL	1	000000001900073
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	848817635			PHYSICAL	1	000000001900153
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	848822321			PHYSICAL	1	000000001900452
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	848828938			PHYSICAL	1	000000001900153
Power Plants	Ground (Outdoor)							GEMINIPOWE-001	850021775			PHYSICAL	4	000000001900157

RRU	Tower					LTE		Ericsson	4408 B48 DC			PHYSICAL	3	
RRU	Tower					LTE		Ericsson	4490			PHYSICAL	3	
RRU	Tower					LTE 5G	LTE	Ericsson	4890			PHYSICAL	3	
RRU	Tower							5G	Ericsson	AIR6419		PHYSICAL	0	
	Ground (Outdoor)							ERICSSON INC	KDU1370093/11			PHYSICAL	2	1900441543
	Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-19-SYS-16-BB			PHYSICAL	1	1900400629
	Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-PSU-162-BB			PHYSICAL	6	1900400627
	Ground (Outdoor)							JMA INFORMATION TECHNOLOGY	PB-PSU-COV-BB			PHYSICAL	2	1900400632
	Ground (Outdoor)							RAYCAP INC	RVZDC-4520-RM-48			PHYSICAL	2	1900410978
	Ground (Outdoor)							ASENTRIA CORP	S3406CRANCAB1			PHYSICAL	1	1900077176

NOTE:  
1. RF DESIGN AND DETAILS ON THIS SHEET PROVIDED BY VERIZON AND AR INCLUDED FOR CONVENIENCE ONLY. FINAL RF DESIGN TO BE VERIFIED WITH VERIZON PRIOR TO CONSTRUCTION. IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.

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CLIENT:



CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

RF SUMMARY  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:	PCM	
PLOT DATE:	10/20/2023	
PROJECT NUMBER:	32691	
SET TYPE:	DRAFT	
SHEET NUMBER:	VzW T-502	

B EQUIPMENT SUMMARY



K:\2600\3269\1\Design\CAD\CD\Plot\z\W\_T-503.dgn

AWS3 LTE

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

CBRS 3.5 GHz

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

ERICSSON	21	21
120	240	240
0		
120.3	KRE105281/I	KRE105281/I
27.97	ERICSSON	ERICSSON
56090	120	120
10	0	0
38.35	9	9
	120.3	120.3
	27.97	27.97
	55990	55990
Ericsson	10	10
4408 B48 DC	38.35	38.35
4.4		
14513712	Ericsson	Ericsson
ATOLL_API	4408 B48 DC	4408 B48 DC
	4.4	4.4
	14513709	14513706
	ATOLL_API	ATOLL_API

Service Info

01	02	03
0	120	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
ANDREW	ANDREW	ANDREW
120	120	120
0	0	0
4	4	4
124	124	124
140.2	182.62	182.62
67086	67086	67086
10	10	10
769.13	1001.84	1001.84
Ericsson	Ericsson	Ericsson
4890	4890	4890
4.4	4.4	4.4
2	2	2
12951572	12951575	12951578
ATOLL_API	ATOLL_API	ATOLL_API

19	19	19
0	0	0
KRE105281/I	KRE105281/I	KRE105281/I
ERICSSON	ERICSSON	ERICSSON
120	120	120
0	0	0
9	9	9
120.3	120.3	120.3
27.97	27.97	27.97
55790	56090	55990
10	10	10
38.35	38.35	38.35
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4.4	4.4	4.4
14513701	14513710	14513707
ATOLL_API	ATOLL_API	ATOLL_API

19	20	20
0	120	120
KRE105281/I	KRE105281/I	KRE105281/I
ERICSSON	ERICSSON	ERICSSON
120	120	120
0	0	0
9	9	9
120.3	120.3	120.3
27.97	27.97	27.97
55890	55790	56090
10	10	10
38.35	38.35	38.35
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4.4	4.4	4.4
14513704	14513702	14513711
ATOLL_API	ATOLL_API	ATOLL_API

20	21	21
120	120	240
KRE105281/I	KRE105281/I	KRE105281/I
ERICSSON	ERICSSON	ERICSSON
120	120	120
0	0	0
9	9	9
120.3	120.3	120.3
27.97	27.97	27.97
55990	55790	55790
10	10	10
38.35	38.35	38.35
Ericsson	Ericsson	Ericsson
4408 B48 DC	4408 B48 DC	4408 B48 DC
4.4	4.4	4.4
14513708	14513705	14513703
ATOLL_API	ATOLL_API	ATOLL_API

21		
240		
KRE105281/I		

700 MHz LTE

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

1900 MHz LTE

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

1900 MHz 5G NR

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

2100 MHz LTE

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

riL-Sub6

Sector
Azimuth
Cell / ENode B ID
Antenna Model
Antenna Make
Antenna Centerline(Ft)
Mechanical Down-Tilt(Deg.)
Electrical Down-Tilt
Tip Height
Regulatory Power
DLEARFCN
Channel Bandwidth(MHz)
Total ERP (W)
TMA Make
TMA Model
RRU Make
RRU Model
Number of Tx, Rx Lines
Position
Transmitter Id
Source

Service Comments

01	02	03
0	120	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
COMMSCOPE	COMMSCOPE	COMMSCOPE
120	120	120
0	0	0
0	0	0
124	124	124
140.11	140.11	140.11
5230	5230	5230
10	10	10
1260.96	1268.96	1260.96
Ericsson	Ericsson	Ericsson
4490	4490	4490
4.4	4.4	4.4
1.2	1.2	1.2
12951570	12951573	12951576
ATOLL_API	ATOLL_API	ATOLL_API

01	02	03
0	120	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
ANDREW	ANDREW	ANDREW
120	120	120
0	0	0
2	2	2
124	124	124
304.42	304.42	304.42
875	875	875
15	15	15
2504.96	2504.96	2504.96
Ericsson	Ericsson	Ericsson
4890	4890	4890
4.4	4.4	4.4
1	1	1
12951579	12951580	12951581
ATOLL_API	ATOLL_API	ATOLL_API

0001	0002	0003
0	120	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
ANDREW	ANDREW	ANDREW
120	120	120
0	0	0
2	2	2
124	124	124
304.42	304.42	304.42
875	875	875
15	15	15
2504.96	2504.96	2504.96
Ericsson	Ericsson	Ericsson
4890	4890	4890
4.4	4.4	4.4
1	1	1
12951579	12951580	12951581
ATOLL_API	ATOLL_API	ATOLL_API

01	02	03
0	120	240
NHH-65C-R2B	NHH-65C-R2B	NHH-65C-R2B
ANDREW	ANDREW	ANDREW
120	120	120
0	0	0
2	2	2
124	124	124
182.59	182.59	182.59
2325	2325	2325
15	15	15
1502.45	1502.45	1502.45
Ericsson	Ericsson	Ericsson
4890	4890	4890
4.4	4.4	4.4
2	2	2
12951571	12951574	12951577
ATOLL_API	ATOLL_API	ATOLL_API

0001	0002	0003
0	120	240
AIR6419	AIR6419	AIR6419
Ericsson	Ericsson	Ericsson
120	120	120
0	0	0
3	3	3
121.2	121.2	121.2
918.71	918.71	918.71
650006, 654652	650006, 654652	650006, 654652
40.100	100.40	40.100
37239.17	37239.17	37239.17
Ericsson	Ericsson	Ericsson
AIR6419	AIR6419	AIR6419
2.2	2.2	2.2
12951567	12951568	12951569
ATOLL_API	ATOLL_API	ATOLL_API

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CLIENT:



CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

RF SUMMARY  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	VzW T-503

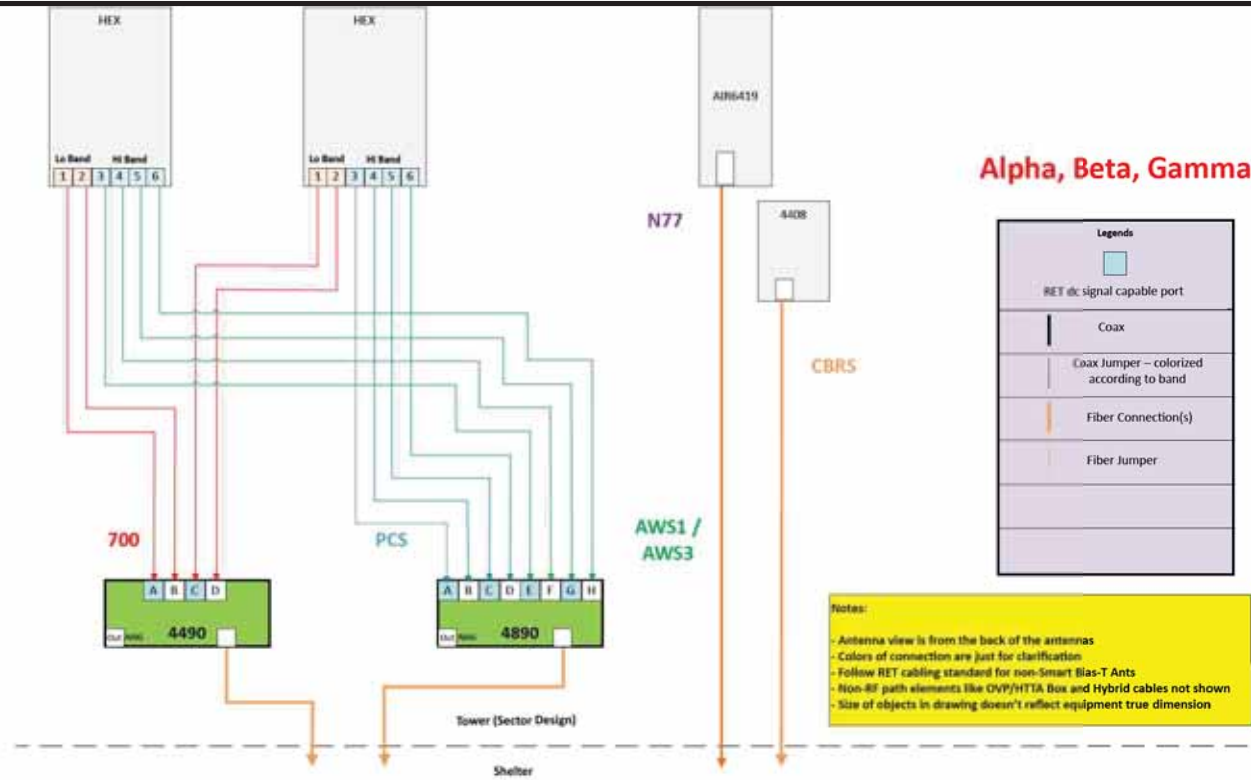
NOTE:

- RF DESIGN AND DETAILS ON THIS SHEET PROVIDED BY VERIZON AND ARE INCLUDED FOR CONVENIENCE ONLY. FINAL RF DESIGN TO BE VERIFIED WITH VERIZON PRIOR TO CONSTRUCTION. IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.

A

SERVICE INFORMATION

K:\2600\3269\1\Design\CAD\CD Plot\T-504.dgn



- NOTE:
- RF DESIGN AND DETAILS ON THIS SHEET PROVIDED BY VERIZON AND ARE INCLUDED FOR CONVENIENCE ONLY. FINAL RF DESIGN TO BE VERIFIED WITH VERIZON PRIOR TO CONSTRUCTION. IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.

### A RF PLUMBING DIAGRAM

HYBRID CABLE LENGTH			
	ALPHA RAYCAP	BETA RAYCAP	GAMMA RAYCAP
PROPOSED HYBRID CABLE QUANTITY	1	1	1
LENGTH FROM SHELTER SOURCE TO TANK BASE PENETRATION	60 FT	60 FT	60 FT
LENGTH FROM T.O.C. TO TOWER TOP HATCH PENETRATION	120 FT	120 FT	120 FT
LENGTH FROM HATCH PENETRATION TO RAYCAP SPD	68 FT	37 FT	43 FT
TOTAL LENGTH OF CABLE	248 FT	217 FT	223 FT
** HYBRID CABLE LENGTH NOT TO EXCEED 367'			

JUMPER CABLE LENGTH CHECK	
IS THE DISTANCE FROM SURGE PROTECTOR TO RADIO UNIT LESS THAN 30'?	
ALPHA SECTOR	YES
BETA SECTOR	YES
GAMMA SECTOR	YES

- NOTE:
- IF CABLING LENGTH EXCEEDS MAXIMUM ALLOWED LENGTH CONTRACTOR SHALL CONTACT CLIENT AND ENGINEER TO RESOLVE PRIOR TO CONSTRUCTION.

### B CABLE LENGTHS

Raycap Layout - (6) OVP per Sector					
POWER					
3	HB/FD MIMO			6	Spare
2	HB			5	CBRS
1	LB			4	C-Band
FIBER					
1	2	3	4	5	6
LB	HB	HB / FD MIMO	Spare	CBRS	Spare
7	8	9	10	11	12
C-Band (1)	C-Band (2)	C-Band (3)	Spare	Spare	Spare

### D SURGE PROTECTOR LAYOUT



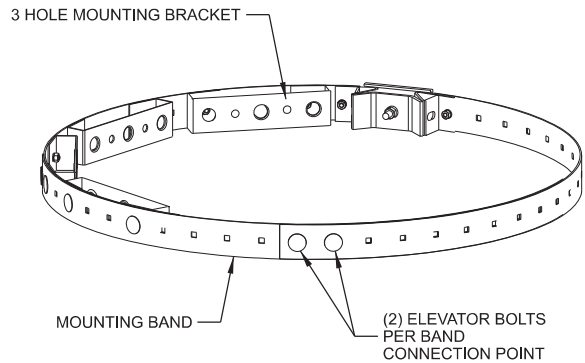
### E 6" & 6-5/8" BOOT ASSEMBLY KIT

**MANUFACTURER:** COMMSCOPE  
**MODEL:** EX-P1060 (MOUNTING BAND)  
**MODEL:** EX-PH3 (MOUNTING BRACKET)

EXPANSION/COMPRESSION MOUNTING BAND FOR 10" TO 60" OD ROUND OR POLYGON MONOPOLES OR 36" TO 60" ID WATER TOWER ACCESS TUBES

3 HOLE MOUNTING BRACKET FOR EXPANDING LINE CAPACITY ON EX-PRESS BAND

COMPRESSION CHART	
DIAMETER	BAND LENGTH
30"	92"
32"	98"
34"	104"
36"	110"
38"	116"
40"	124"
42"	130"
44"	136"
46"	142"
48"	148"
50"	154"
52"	160"
54"	168"
56"	174"
58"	180"
60"	186"



- NOTE:
- SPACE BANDS EVERY 4' O.C. ALONG ACCESS TUBE
  - MOUNT BRACKETS IN ACCORDANCE W/ OSHA REQUIREMENTS. 30" IS REQ. BEHIND CLIMBER.
  - 1/8" NEOPRENE GASKET TO BE AS WIDE AS BAND AND LOCATED BEHIND THE ENTIRE CIRCUMFERENCE. INSTALL TO AVOID PAINT SCRAPING & CORROSION. (ORDERED SEPERATELY)

### C EXPANSION MOUNTING BAND

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
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608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

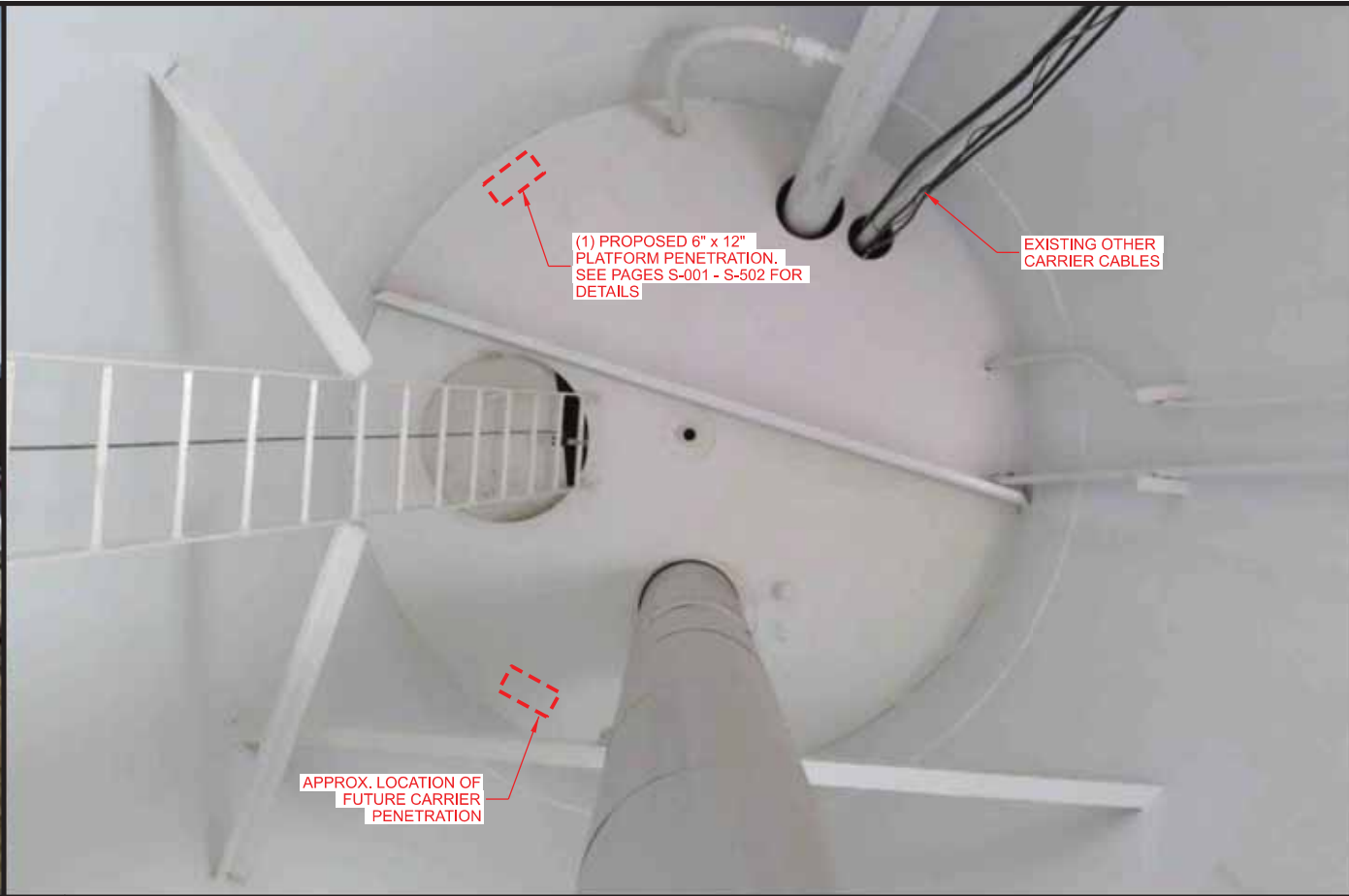
**CABLING DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

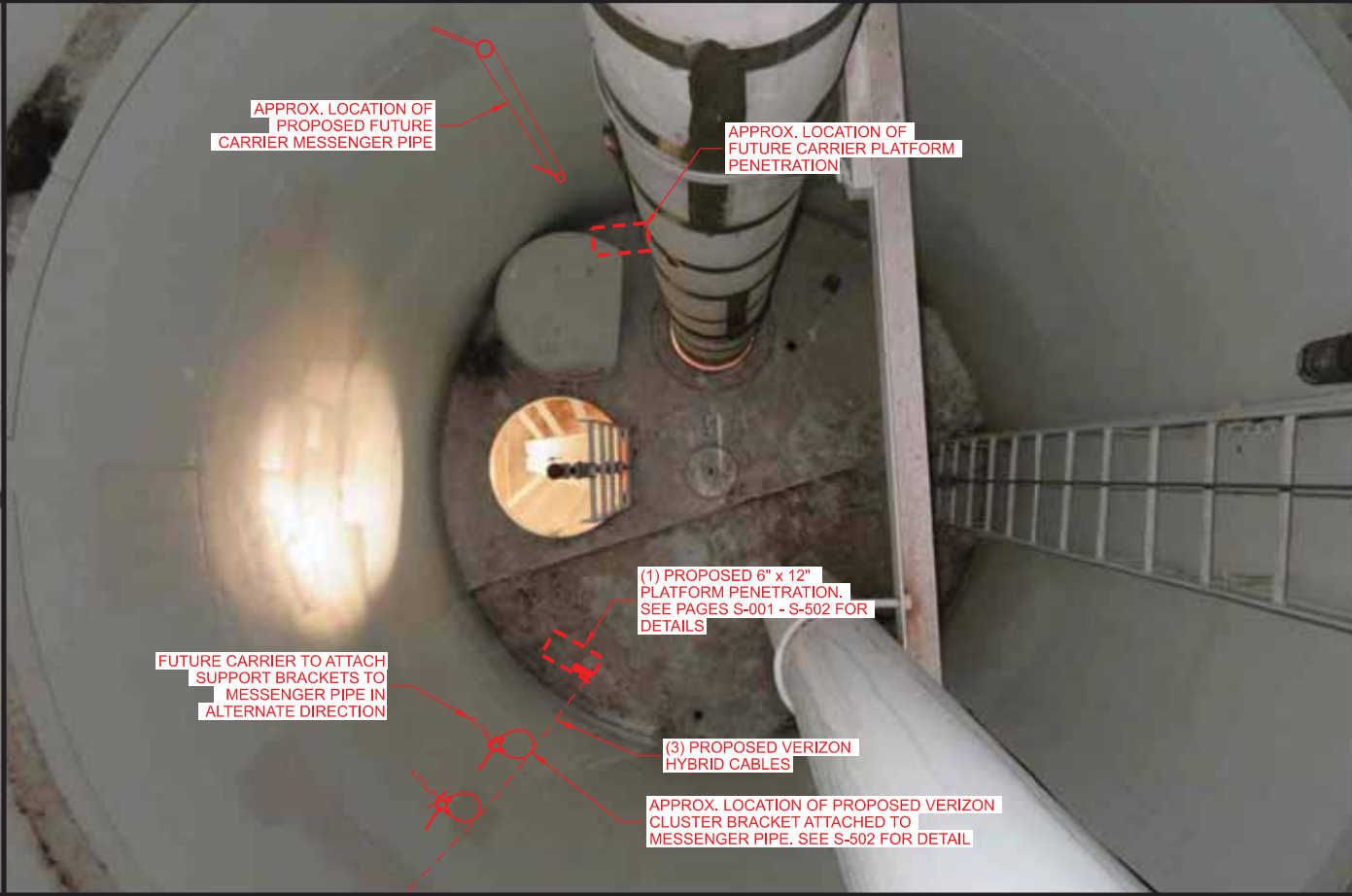
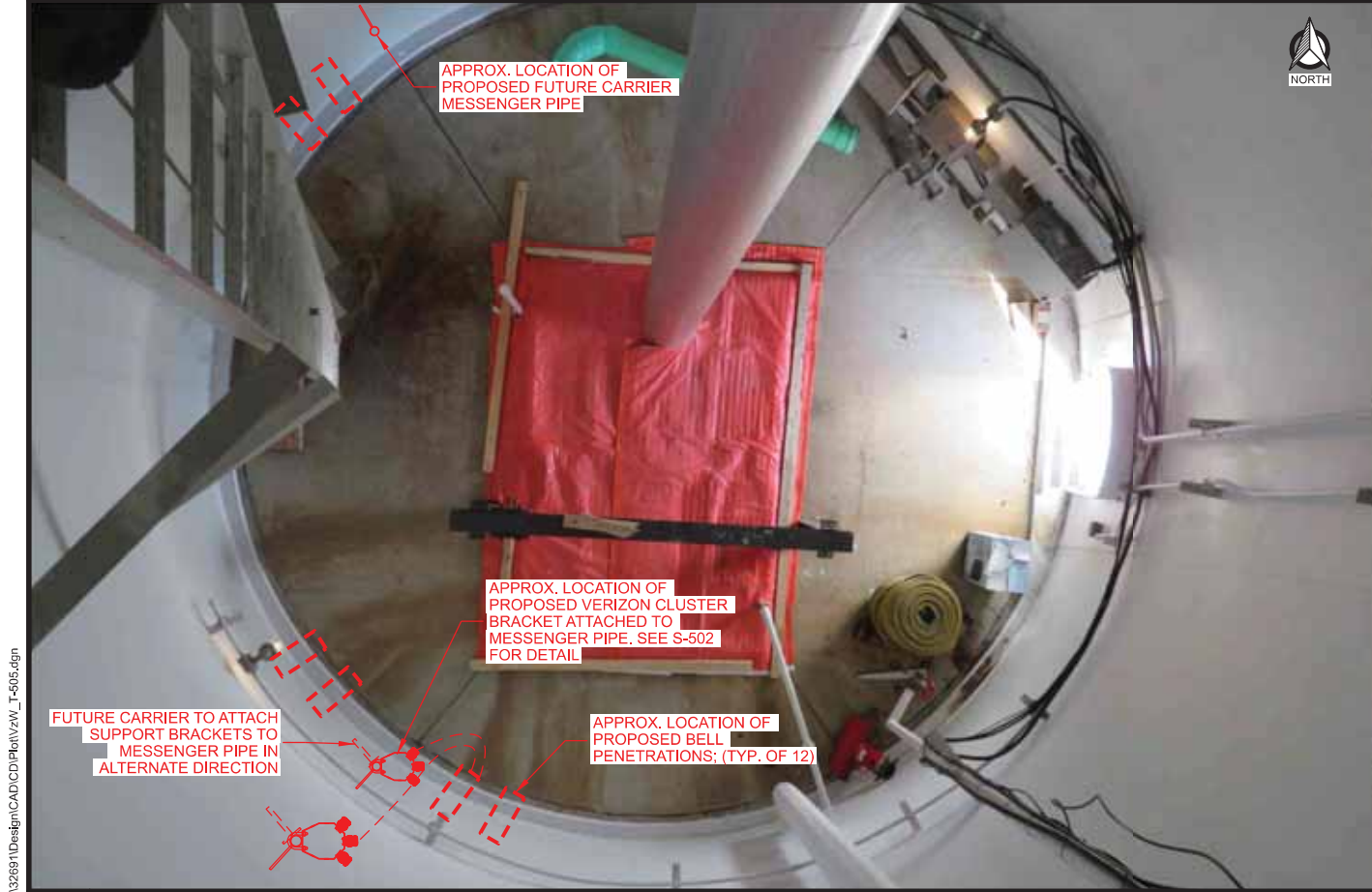
CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	<b>VzW T-504</b>





**A** EXTERIOR OF TANK BASE

**C** BOTTOM OF 1ST CONDENSATE PLATFORM (LOOKING UP)



**B** INTERIOR OF TANK BASE

**D** 1ST CONDENSATE PLATFORM (LOOKING DOWN)

CONSULTANT:  
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1701 GOLF ROAD  
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ROLLING MEADOW, IL 60008

**CABLE ROUTING**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

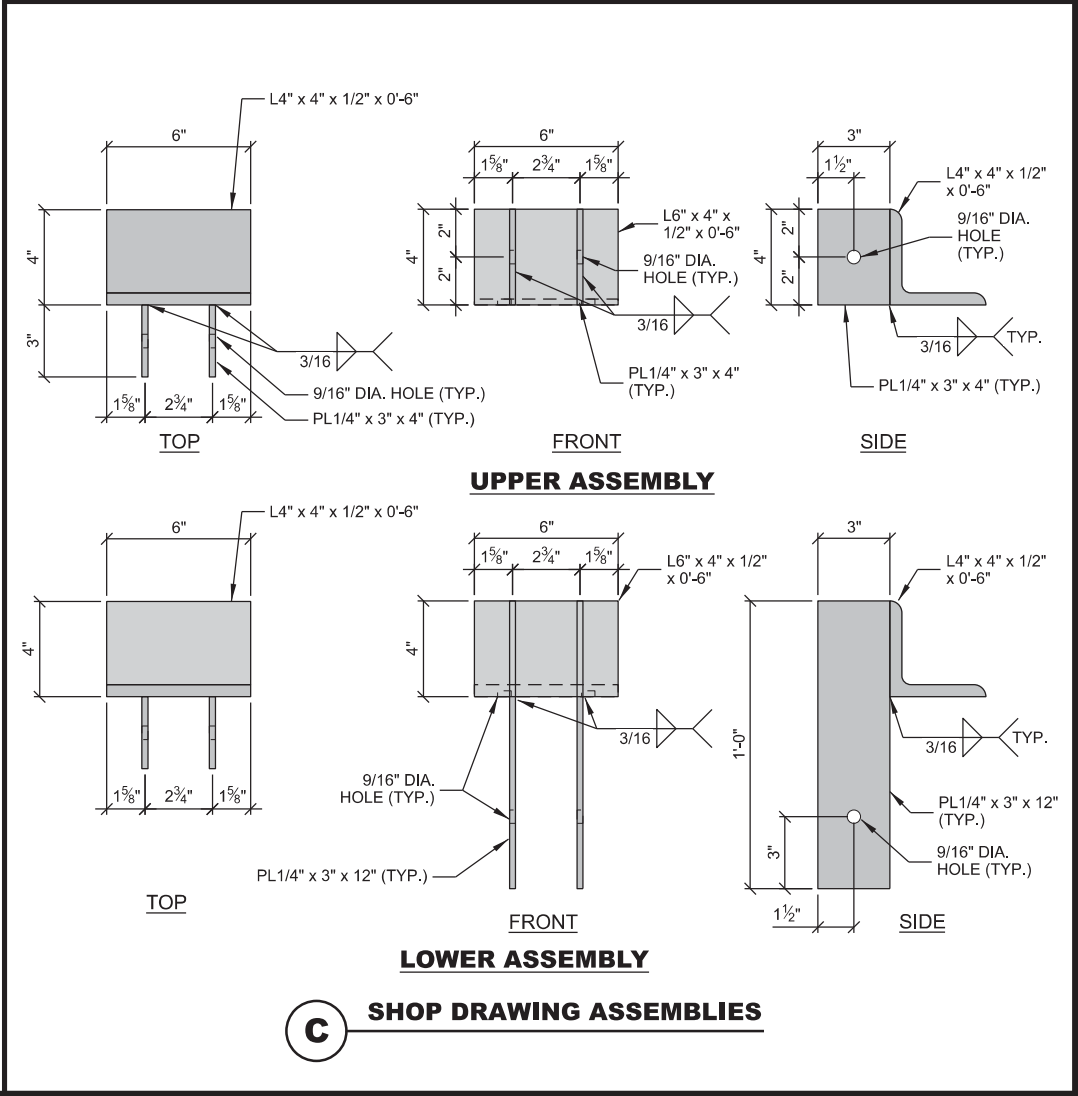
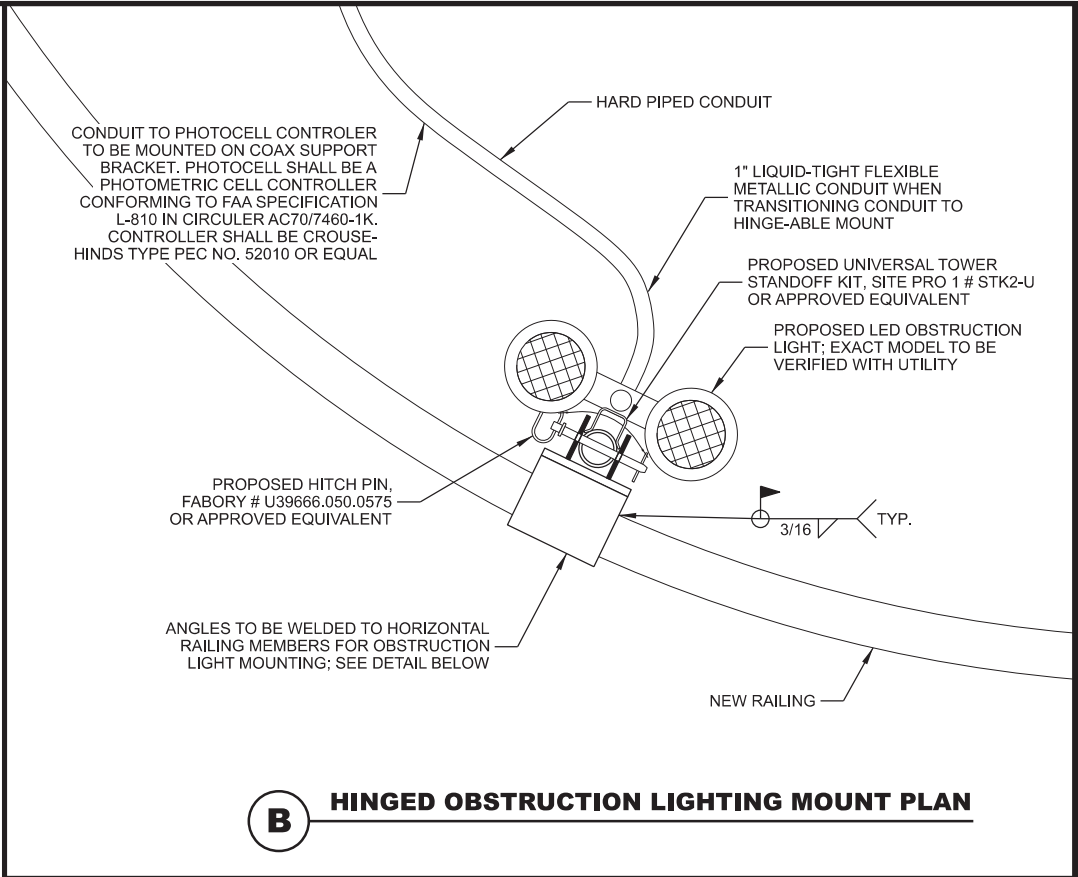
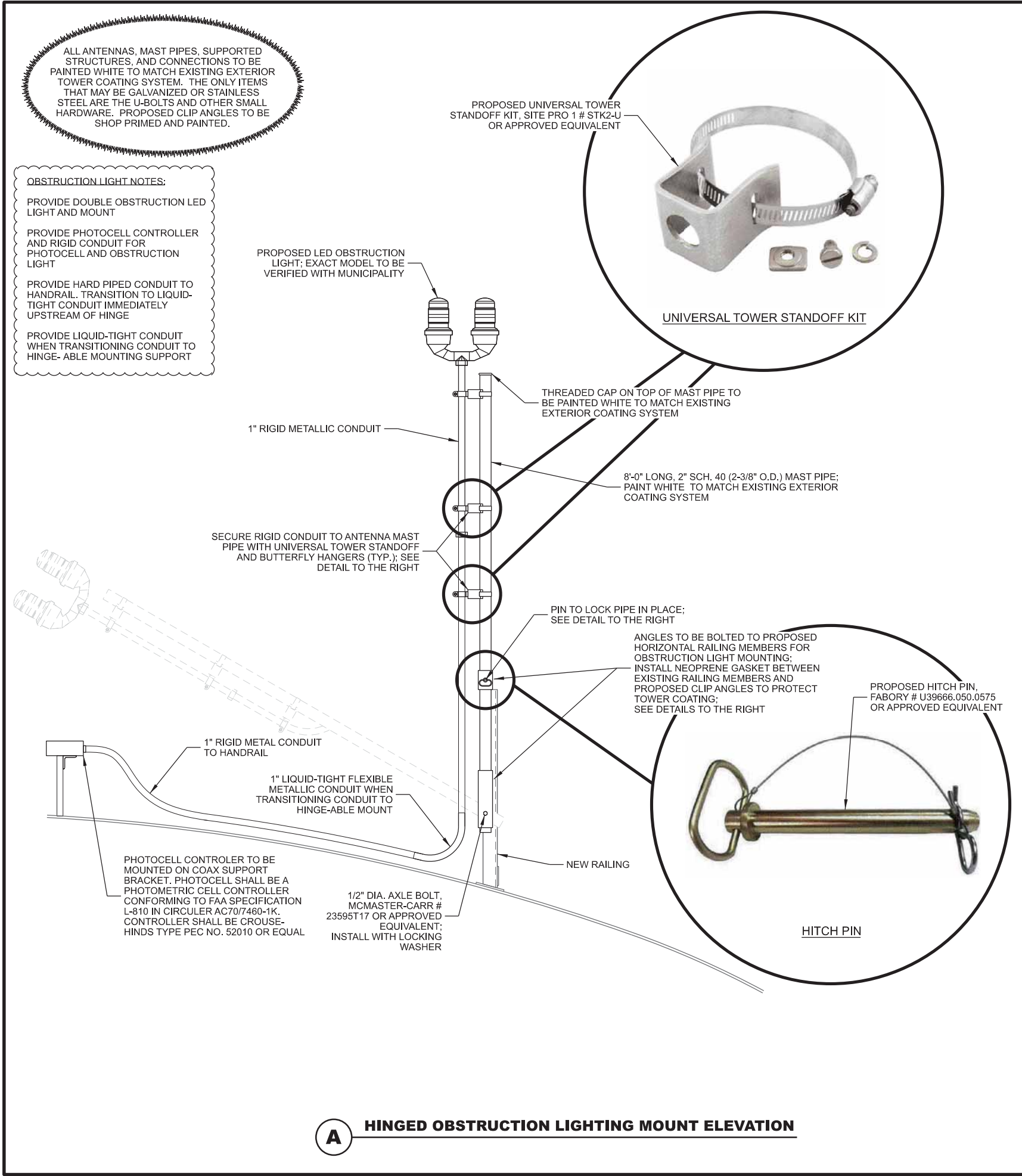
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SHEET NUMBER:		VzW T-505

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ROLLING MEADOW, IL 60008

**OBSTRUCTION LIGHT DETAILS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
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CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	VzW T-507

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GENERAL

1.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS PRIOR TO COMMENCING ANY WORK. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR THE PROPER FIT AND CLEARANCE IN THE FIELD. CONTACT EDGE CONSULTING ENGINEERS, INC. IF ANY DISCREPANCIES EXIST.
- DO NOT SCALE DRAWINGS.
2.

THIS DRAWING IS NOT VALID IF LOADS OTHER THAN THOSE CONSIDERED IN THE STRUCTURAL ANALYSIS ARE ADDED TO OR REMOVED FROM THE STRUCTURE UNLESS APPROVED IN WRITING BY EDGE CONSULTING ENGINEERS, INC.
3.

THE PROPOSED LOADS SHALL NOT BE ADDED TO THE STRUCTURE UNTIL ALL MODIFICATIONS ARE MADE AND APPROVED BY THE WELDING INSPECTOR.
4.

THE DRAWINGS REPRESENT THE FINISHED STRUCTURE UNLESS NOTED OTHERWISE. THE DRAWINGS DO NOT INDICATE THE MEANS OR METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND PRACTICES.
5.

THE DRAWINGS DO NOT INCLUDE THE NECESSARY COMPONENTS OR EQUIPMENT FOR THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR STRUCTURAL STABILITY DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, ERECTION PROCEDURES AND SEQUENCE, SHORING, BRACING, RIGGING, GUYS, SCAFFOLDING, FORMWORK, AND OTHER WORK AIDS TO SAFELY PERFORM THE WORK SHOWN ON THE DRAWINGS.
6.

BEFORE PROCEEDING WITH ANY WORK ADJACENT TO OR WITHIN THE EXISTING STRUCTURE, THE CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS. DURING THE PROCESS OF CONSTRUCTION, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF THE EXISTING STRUCTURE WHERE THE EXISTING STRUCTURE IS MODIFIED TO ACCOMMODATE NEW CONSTRUCTION AND FOR PROTECTING FROM DAMAGE THOSE PORTIONS OF THE EXISTING STRUCTURE WHICH ARE TO REMAIN.
7.

THE CONTRACTOR SHALL NOT CUT, CORE, DRILL, OR OTHERWISE ALTER THE EXISTING STRUCTURAL ELEMENTS OTHER THAN THE MODIFICATIONS SHOWN ON THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL OF EDGE CONSULTING ENGINEERS, INC.
8.

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE ON-SITE SAFETY ASSOCIATED WITH THE WORK TO BE PERFORMED. ALL SAFETY REQUIREMENTS AS DICTATED BY OSHA AND THE LOCAL JURISDICTION'S SHALL BE FOLLOWED.
9.

IT SHOULD BE UNDERSTOOD THAT THE CONTRACTOR IS THE GUARANTOR OF ALL WORK AND RESPONSIBLE TO CONSTRUCT THE TOWER SITE ACCORDING TO APPLICABLE PLANS, SPECIFICATIONS AND STANDARDS.
10.

SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.
11.

ALL MATERIALS, WORKMANSHIP, AND DETAILS SHALL CONFORM TO THE LATEST EDITION OF THE BUILDING CODE.
12.

ALL PROPOSED INSTALLATIONS SHALL NOT DENY OR INTERFERE WITH AND ACCESS TO ANY OPERATIONAL OR SAFETY EQUIPMENT/APPURTENANCES.

PROTECTIVE GROUNDING

1.

TOWER GROUNDING SHALL BE IN ACCORDANCE WITH CHAPTER 10 OF THE TIA-222 REV. G CODE WITH THE FOLLOWING EXCEPTIONS:

- UNO, NO TESTING TO VERIFY FINAL RESISTANCE SHALL BE COMPLETED UNLESS IT IS SPECIFICALLY REQUESTED BY THE CLIENT.

- ALTERNATE GROUNDING METHODS FOR SPECIFIC SITE CONDITIONS DESIGNED IN ACCORDANCE WITH MOTOROLA R56 "STANDARDS AND GUIDELINES FOR COMMUNICATION SITES" MAY BE USED WITH ENGINEER APPROVAL.

SHEET INDEX

NO.: SHEET TITLE

S-001	STRUCTURAL NOTES **
S-002	STRUCTURAL MODIFICATION CHECKLIST **
S-101	RAIL MODIFICATION PLAN **
S-501	RAIL MODIFICATION DETAILS **
S-502	TOWER MODIFICATION DETAILS **

\*\* REVIEWED AND APPROVED BY STRUCTURAL ENGINEER

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS/CONDITIONS ON SITE. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING ANY WORK OR BE RESPONSIBLE FOR THE SAME.

STRUCTURAL ENGINEER OF RECORD



I HEREBY CERTIFY THAT THIS PLAN SET WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION OTHER THAN THE EXCEPTIONS NOTED IN THE SHEET INDEX, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WISCONSIN.

Signature:

Date: 10.11.2023

STRUCTURAL STEEL

1.

STRUCTURAL STEEL DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE CURRENT AISC STEEL CONSTRUCTION MANUAL.
2.

MATERIAL PROPERTIES ARE TO BE AS INDICATED BELOW UNLESS NOTED OTHERWISE.

W-SHAPES	Fy = 50 KSI (A992 OR A572 Gr 50)
C-SHAPES & ANGLES	Fy = 36 KSI (A36)
PLATES & BARS	Fy = 36 KSI (A36)
SQUARE TUBES	Fy = 50 KSI (A500 Gr C)
ROUND TUBES	Fy = 35 KSI (A53 TYPE S, Gr B)
RODS	Fy = 36 KSI (A36)
ANCHOR RODS	Fy = 36 KSI (F1554-Gr 36)
U-BOLTS	Fu = 58 KSI MIN.

3.

MINIMUM BOLT EDGE DISTANCES ARE TO BE THE LARGER OF THE EXISTING CONDITION OR THE TABLE PROVIDED BELOW UNLESS APPROVED BY THE ENGINEER.

BOLT DIAMETER (IN)	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 5/8	1 3/4
MIN. EDGE DISTANCE	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 5/8	1 3/4	1 3/4	1 3/4

4.

ALL CONNECTION BOLTING IS TO BE WITH A-325X BOLTS UNLESS NOTED OTHERWISE. BOLTS NEED ONLY BE TIGHTENED TO THE SNUG-TIGHT CONDITION. SNUG-TIGHT IS DEFINED AS THE TIGHTNESS OBTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A PERSON USING AN ORDINARY SPUD WRENCH. ALL U-BOLT CLAMP CONNECTIONS ARE TO BE INSTALLED IN A PRETENSIONED CONDITION USING THE TURN OF THE NUT OR ALTERNATIVE PROCEDURE REFERENCED BY AISC.
5.

ALL STEEL FRAMING MEMBERS, CONNECTION PLATES, FASTENERS AND ANCHOR BOLTS EXPOSED TO EARTH OR WEATHER TO HAVE HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE SPECIFIED. APPLY COATING BY THE HOT-DIP PROCESS FOR GALVANIZING ACCORDING TO ASTM A123 OR ASTM A153.
6.

ALL DINGS, SCRAPES, MARS AND WELDS IN THE GALVANIZED AREA SHALL BE COATED WITH A ZINC-RICH PAINT, APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
7.

AFTER ZINC-RICH PAINT IS DRY, OVERCOAT WITH AN APPROPRIATE PAINT WITH THE SAME COLOR AS THE EXISTING.
8.

SUBMIT SHOP DRAWINGS DETAILING FABRICATION OF STRUCTURAL STEEL COMPONENTS TO ENGINEER OF RECORD.
9.

STEEL BEAMS WITH RESIDUAL CAMBER RESULTING FROM MILL FABRICATION OR ROLLING SHALL BE SHOP FABRICATED AND ERECTED SUCH THAT THIS RESIDUAL CAMBER COUNTERACTS GRAVITY LOAD DEFLECTION.
10.

U.N.O., POST INSTALLED ANCHORS ARE TO BE HILTI HIT HY 200 ADHESIVE ANCHORS FOR SOLID BASE MATERIAL AS MANUFACTURED BY HILTI FASTENING SYSTEMS OF TULSA, OKLAHOMA OR APPROVED EQUAL. THE STEEL ANCHORS ARE TO BE HILTI HAS-R THREADED ROD OR CONTINUOUSLY THREADED STAINLESS STEEL ROD THAT COMPLY WITH ASTM F593 CW2 AND THAT HAVE THREAD CHARACTERISTICS COMPARABLE WITH ANSI B1.1 UNC COARSE THREAD SERIES. INSTALL ANCHORS WITH EMBEDMENT DEPTHS INDICATED.
11.

U.N.O., NON-SHRINK GROUT SHALL BE A NON-METALLIC PREMIXED FORMULATION EQUIVALENT TO MASTERFLOW 713 PLUS BY DEGUSSA BUILDING SYSTEMS WITH A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 6000 PSI. BEAM AND LINTEL PLATES SHALL BE FULLY GROUTED WITH A MINIMUM 1/2" NON-SHRINK GROUT. COLUMN BASE PLATES SHALL BE FULLY GROUTED WITH A MINIMUM OF 1 1/2" NON-SHRINK GROUT.
12.

METAL BAR GRATING SHALL BE FURNISHED AND INSTALLED ACCORDING TO ANSI/NAAMM MBG 531-00 METAL BAR GRATING MANUAL. METAL BAR GRATING SHALL BE WELDED STEEL GRATING FABRICATED FROM CARBON STEEL WITH MINIMUM BENDING STRESS OF FY=18,000 PSI AND E=29,000,000 PSI. THE MANUFACTURER SHALL SUBMIT (4) SETS OF PANEL FABRICATION DRAWINGS WITH ERECTION PLANS IDENTIFYING EACH PANEL WITH A MARK NUMBER AND PANEL DIMENSIONS. SHOP DRAWINGS SHALL BE SUBMITTED AND APPROVED PRIOR TO FABRICATION AND SHIPMENT OF GRATING. ALL GRATING PANELS SHALL BE CUT TO SIZE AND BANDED. GRATING SHALL BE FINISHED ACCORDING TO THE BID OPTION SELECTED. EACH GRATING PANEL SHALL BE TAGGED WITH THE ORDER NUMBER AND MARK NUMBER CORRESPONDING TO THE ERECTION PLAN. FIELD CUTTING OF GRATING IS NOT PERMITTED WITHOUT PRIOR WRITTEN APPROVAL OF THE ENGINEER. GRATING MAY BE FASTENED TO STRUCTURE BY WELDS OR CLIPS ACCORDING NAAMM STANDARDS.

EXISTING STRUCTURE REINFORCEMENT

1.

MODIFICATIONS TO EXISTING STRUCTURES SHALL BE BASED UPON A RIGOROUS STRUCTURAL ANALYSIS.
2.

ALL STRUCTURAL MEMBERS/CONNECTIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE DESIGN CRITERIA.
3.

PRIOR TO IMPLEMENTATION OF THE CHANGED CONDITIONS AND/OR MODIFICATIONS, ITEMS ON THE DESIGN DOCUMENT REQUIRING VERIFICATION SHALL BE RESOLVED.

WATER TOWER SPECIFICATIONS

WELDING NOTES:

1.

ALL WELDING TO THE TANK STRUCTURE SHALL COMPLY WITH THE CURRENT ANSI/AWWA D100 STANDARD FOR WELDED STEEL TANKS FOR WATER STORAGE AND FEDERAL, STATE AND LOCAL CODES IN ADDITION TO AWS D1.1 STRUCTURAL WELDING CODE - STEEL.
2.

NO WELDING SHALL BE DONE WHEN THE AMBIENT TEMPERATURE IS BELOW 32 DEGREES FAHRENHEIT UNLESS THE REQUIREMENTS OF AWWA D100, SEC 10.2.1 ARE MET.
3.

WELDING TO THE TANK OR ACCESS TUBE OPPOSITE THE WATER LEVEL IS NOT PERMITTED. THE WATER LEVEL SHALL BE DRAWN DOWN TO A LEVEL TWO FEET BELOW THE POINT OF WELDING.
4.

WELDING CAUSES BLISTERING AND LOSS OF ADHESION TO THE INTERIOR PAINT OPPOSITE THE WELD. ALL DAMAGED PAINT SURFACES INSIDE AND OUT SHALL BE REPAIRED. EXTERIOR PAINT DAMAGE SHALL ALSO BE REPAIRED AFTER COMPLETION OF THE ANTENNA INSTALLATION. CONTRACTOR IS TO COORDINATE WITH TOWER OWNER ON EXISTING PAINT SYSTEM.
5.

PROTECT TANK SURFACES WITH WELDING BLANKETS ADJACENT TO WORK AREAS WHERE CUTTING, GRINDING AND WELDING ARE REQ'D.
6.

GALVANIZED COMPONENTS SHALL NOT BE WELDED DIRECTLY TO THE TANK SURFACE. OTHER GALVANIZED SURFACES SHALL BE GROUND FREE OF GALVANIZING BEFORE WELDING.
7.

UNACCEPTABLE WELDS SHALL BE REPAIRED AS REQUIRED TO MEET AWWA D100 REQUIREMENTS.
8.

ALL ELECTRODES SHALL BE LOW HYDROGEN E70XX ELECTRODES, PER AWS D1.1 SPECIFICATIONS UNLESS NOTED OTHERWISE.
9.

PRE-HEATING SHALL MEET THE MINIMUM TEMPERATURE REQUIREMENTS FOR STEEL GRADE AND THICKNESS IN CONFORMANCE WITH AWS D1.1.
10.

WELD SMOOTH AND AVOID UNDERCUTS AND BURRS. GRIND ALL WELDS SMOOTH SO THAT NO SHARP PROTRUSIONS REMAIN. SMOOTH IS DEFINED AS: "NO CUTS OR ABRASIONS OCCUR WHEN RUBBING YOUR HAND OVER WELD."

PENETRATION NOTES:

1.

ALL PIPE PENETRATIONS MUST CLEAR EXISTING TANK WELD SEAMS BY AT LEAST 6" (VERTICAL & HORIZONTAL).
2.

TANK WATER LEVEL MUST BE LOWERED TO 50% OF MAXIMUM CAPACITY AND STIFFENERS ADDED BEFORE OPENINGS ARE CUT. WATER LEVEL REDUCTION TO BE SCHEDULED AT MUNICIPALITY'S CONVENIENCE TO MATCH WATER DEMAND. PROVIDE 2 DAYS MINIMUM NOTICE TO MUNICIPALITY.
3.

CUT AND WELD PIPE SLEEVE IN PLACE COMPLETELY BEFORE REPEATING FOR ADDITIONAL SLEEVES.

CONSULTANT:



CLIENT:



STRUCTURAL ENGINEER:



KRECH OJARD & ASSOCIATES, INC.,  
101 PUTNAM STREET  
EAU CLAIRE, WI 54703  
715,552,7374

STRUCTURAL SPECIFICATIONS  
HWY 164 & K (FUZE #16805550)  
PEWAUKEE, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	09/27/22	STR. MODIFICATION
CV	10/10/23	STR. MOD. REV.1

CHECKED BY:

SB

PLOT DATE:

10/10/2023

PROJECT NUMBER:

32691

SET TYPE:

STRUCTURAL MODIFICATION

SHEET NUMBER:

S-001

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MODIFICATION INSPECTION CHECKLIST		
PRE-CONSTRUCTION		
REPORT ITEM	DESCRIPTION	REQUIRED
SHOP DRAWINGS	FABRICATION DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW. THE CONTRACTOR SHALL PROVIDE THE APPROVED SHOP DRAWINGS TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
FABRICATION	A LETTER FROM THE FABRICATOR STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH INDUSTRY STANDARDS AND THE CONTRACTOR DOCUMENTS SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
FABRICATOR CERTIFIED WELD INSPECTION	A CERTIFIED WELD INSPECTION SHALL BE COMPLETED ON ALL SHOP WELDS AND A REPORT SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
WELDER QUALIFICATION TEST RECORD	AN AWS WELDER QUALIFICATION TEST RECORD SHALL BE SUBMITTED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
WELDING PROCEDURE SPECIFICATION (WPS)	A WPS (WITH SUPPORTING PQR's (PROCEDURE QUALIFICATION RECORD) IF REQUIRED) SHALL BE SUBMITTED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
MATERIAL TEST REPORT (MTR)	MILL CERTIFICATION OF ALL MODIFICATION STEEL SHALL BE SUBMITTED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
PACKING SLIPS	MATERIAL SHIPPING LIST SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input checked="" type="checkbox"/>
DURING CONSTRUCTION		
FOUNDATION INSPECTION	A VISUAL OBSERVATION OF THE EXCAVATION AND REBAR INSTALLATION SHALL BE PERFORMED BY THE MODIFICATION INSPECTOR PRIOR TO CONCRETE PLACEMENT.	<input type="checkbox"/>
CONCRETE	THE CONCRETE MIX DESIGN SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT. CONCRETE SLUMP AND COMPRESSIVE STRENGTH TESTS SHALL BE PERFORMED BY THE MODIFICATION INSPECTOR IN ACCORDANCE WITH ACI SPECIFICATIONS.	<input type="checkbox"/>
POST INSTALLED ANCHOR RODS	A VISUAL OBSERVATION OF THE POST INSTALLED ANCHOR ROD INSTALLATION SHALL BE PERFORMED BY THE MODIFICATION INSPECTOR TO ENSURE COMPLIANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.	<input type="checkbox"/>
CERTIFIED WELD INSPECTION	A VISUAL WELD INSPECTION SHALL BE PERFORMED BY AN AWS CWI (CERTIFIED WELDING INSPECTOR) ON ALL WELDS IN ACCORDANCE WITH AWS D1.1 CLAUSE 6.	<input checked="" type="checkbox"/>
NDE (NONDESTRUCTIVE EXAMINATION) - CJP WELDS	FULL PENETRATION WELDS IN THE VICINITY OF THE BASE OF THE TOWER ARE REQUIRED TO BE 100% NDE INSPECTED BY UT (ULTRASONIC TESTING) IN ACCORDANCE WITH AWS D1.1.	<input type="checkbox"/>
NDE (NONDESTRUCTIVE EXAMINATION) - PJP WELDS	PARTIAL PENETRATION AND FILLET WELDS IN THE VICINITY OF THE BASE OF THE TOWER ARE REQUIRED TO BE 50% NDE INSPECTED BY MT (MAGNETIC PARTICLE TESTING) IN ACCORDANCE WITH AWS D1.1.	<input type="checkbox"/>
ON SITE COLD GALVANIZATION	THE GENERAL CONTRACTOR SHALL PROVIDE DOCUMENTATION TO THE MODIFICATION INSPECTOR VERIFYING THAT ANY ON-SITE COLD GALVANIZING WAS APPLIED IN ACCORDANCE WITH SPECIFICATIONS.	<input checked="" type="checkbox"/>
HIGH STRENGTH BOLT INSPECTION	A VISUAL OBSERVATION OF ALL HIGH STRENGTH BOLT INSTALLATION SHALL BE PERFORMED BY THE MODIFICATION INSPECTOR TO VERIFY MANUFACTURER'S TORQUE REQUIREMENTS. IF SPECIFIC TORQUE REQUIREMENTS BEYOND TURN-OF-NUT ARE SPECIFIED BY THE MANUFACTURER, THE MODIFICATION INSPECTOR SHALL SPOT CHECK TORQUE SPECIFICATIONS WITH A TORQUE WRENCH.	<input type="checkbox"/>
GUY WIRE TENSIONS	THE GENERAL CONTRACTOR SHALL PROVIDE A GUY WIRE TENSION REPORT TO THE MODIFICATION INSPECTOR INDICATING THE TEMPERATURE AND TENSION IN EVERY GUY CABLE FOR INCLUSION IN THE REPORT. TENSIONS SHALL ALSO BE VERIFIED BY THE MODIFICATION INSPECTOR.	<input type="checkbox"/>
TOWER PLUMB AND TWIST	TOWER PLUMB AND TWIST SHALL BE VERIFIED PER TIA SPECIFICATIONS BY MODIFICATION INSPECTOR.	<input type="checkbox"/>
POST CONSTRUCTION		
GENERAL CONTRACTOR AS-BUILT DOCUMENTS	THE GENERAL CONTRACTOR SHALL SUBMIT A COPY OF THE CONTRACT DOCUMENTS EITHER STATING "INSTALLED AS DESIGNED" OR NOTING ANY CHANGES THAT WERE REQUIRED AND APPROVED BY THE ENGINEER OF RECORD DUE TO FIELD CONDITIONS.	<input checked="" type="checkbox"/>
POST INSTALLED ANCHOR RODS	POST INSTALLED ANCHOR RODS SHALL BE TESTED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS AND A REPORT SHALL BE PROVIDED TO THE MODIFICATION INSPECTOR FOR INCLUSION IN THE REPORT.	<input type="checkbox"/>
TOWER MODIFICATION	A FINAL VISUAL INSPECTION OF THE MODIFICATION SHALL BE COMPLETED BY THE MODIFICATION INSPECTOR TO ENSURE COMPLIANCE WITH THE DESIGN SPECIFICATIONS.	<input checked="" type="checkbox"/>

TO OBTAIN A QUOTE FOR POST-MOD INSPECTION:

CONTACT EDGE CONSULTING ENGINEERS, INC.

JACOB JOHNSON	-OR-	NATHAN LITSCHER
jjohnson@edgeconsult.com		nlitscher@edgeconsult.com
608.644.1449 EXT 400		608.644.1449 EXT 136

CONSULTANT:

 **Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
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www.edgeconsult.com

CLIENT:

  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

STRUCTURAL ENGINEER:



KRECH OJARD & ASSOCIATES, INC.  
101 PUTNAM STREET  
EAU CLAIRE, WI 54703  
715.552.7374

**MODIFICATION INSPECTION CHECKLIST**  
**HWY 164 & K (FUZE #16805550)**  
**PEWAUKEE, WISCONSIN**

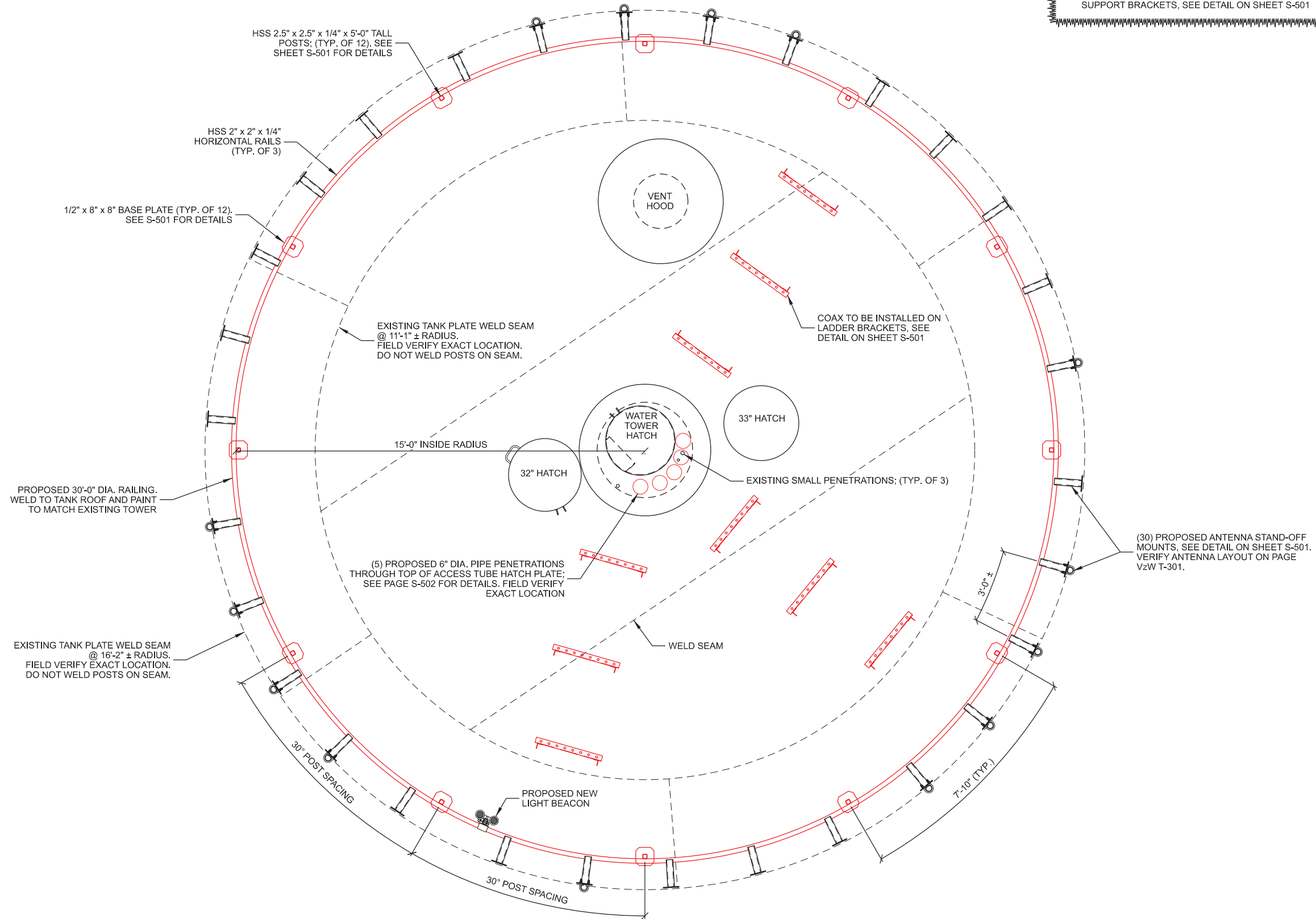
SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	09/27/22	STR. MODIFICATION
CV	10/10/23	STR. MOD. REV.1

CHECKED BY	SB
PLOT DATE	10/10/2023
PROJECT NUMBER	32691
SET TYPE	STRUCTURAL MODIFICATION
SHEET NUMBER	<b>S-002</b>



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NOTES:

1. FABRICATOR MAY LOCATE JOINTS IN CONTINUOUS RAILS AS NECESSARY TO AID IN INSTALLATION.
2. FINISHED RAIL MUST BE SMOOTH ARC TO MATCH DESIGNED RADIUS.
3. DO NOT WELD POSTS ON TOP OF TANK PLATE SEAMS. RAILING POSTS TO BE POSITIONED SO THAT ONE POST FALLS ON EACH PLATE.

A

ROOFTOP RAILING PLAN



CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
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CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

STRUCTURAL ENGINEER:

**KRECH OJARD**

KRECH OJARD & ASSOCIATES, INC.  
101 PUTNAM STREET  
EAU CLAIRE, WI 54703  
715.552.7374

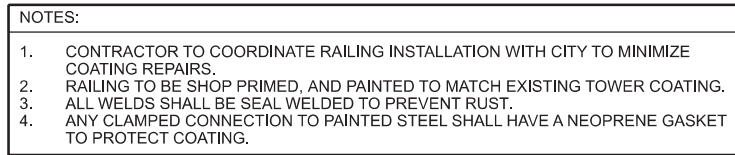
**RAIL MODIFICATION PLAN**  
**HWY 164 & K (FUZE #16805550)**  
**PEWAUKEE, WISCONSIN**

SUBMITAL:

INT.	DATE:	DESCRIPTION:
CV	09/27/22	STR. MODIFICATION
CV	10/10/23	STR. MOD. REV.1

CHECKED BY:	SB
PLOT DATE:	10/10/2023
PROJECT NUMBER:	32691
SET TYPE:	STRUCTURAL MODIFICATION
SHEET NUMBER:	<b>S-101</b>





FRONT VIEW

7"

7"

1 1/4"

4 1/2"

1 1/4"

1 5/8"

3 3/4"

1 5/8"

PROPOSED PL 7" x 7" x 5/16

9/16" x 1-1/2" SLOTTED HOLES (TYP.)

Technical drawing of a cable tray assembly. The drawing shows a vertical Z-bracket wall mount with two horizontal HSS rails. The top rail is labeled "HSS RAIL, TYP." and has a dimension of "1/8" TYP." indicated. The bottom rail is labeled "PROPOSED HSS 1.5" x 1.5" x 1/4" x 0'-6" LONG" and also has a dimension of "1/8" TYP." indicated. The vertical Z-bracket is labeled "3/4" SPAG-IN BRACKET HOLES, TYP." and "6" (dimension). The Z-bracket is labeled "SITEPRO 1 PART #: ZB36 Z-BRACKET WALL MOUNT, OR EQUIV." and "(12) RUNS (32-1/2" LENGTH)". The Z-bracket is labeled "INSTALL Z-BRACKETS AROUND RAILING @ 3'-0" O.C. TYPICAL, LOCATE AS REQUIRED FOR CABLE ROUTING." and "TYP.".

Technical drawing of a double stack future coax rack assembly, showing top and side views with dimensions and callouts.

**Top View Dimensions:**

- Overall width: 1'-0"
- Overall depth: 1'-11"
- Vertical L2" x 2" x 1/8" x 12" (8 pieces)
- Horizontal L2" x 2" x 1/8" x 25" (8 pieces)
- Double stack future coax (8 pieces)
- Typical hole spacing: 1/8"
- Typical hole diameter: 3/4"

**Side View Dimensions:**

- Overall height: 1'-0"
- Overall width: 1'-11"
- Vertical L2" x 2" x 1/8" x 12" (8 pieces)
- Horizontal L2" x 2" x 1/8" x 25" (8 pieces)
- Double stack future coax (8 pieces)
- Typical hole spacing: 1/8"
- Typical hole diameter: 3/4"

NOTE:
PROPOSED WT ROOF COAX LADDER TO BE INSTALLED FOR COAX ROUTING TO RAILING FROM ACCESS TUBE PENETRATIONS. PAINT TO MATCH WT.

### D COAX LADDER DETAIL

# RAIL MODIFICATION DETAILS

## HWY 164 & K (FUZE #16805550)

### PEWAUKEE, WISCONSIN

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INT.	DATE:	DESCRIPTION:
CV	09/27/22	STR. MODIFICATION
CV	10/10/23	STR. MOD. REV.1
CHECKED BY	SB	
PLOT DATE	10/10/2023	
PROJECT NUMBER	32691	
SET TYPE	STRUCTURAL MODIFICATION	
SHEET NUMBER	<b>S-501</b>	



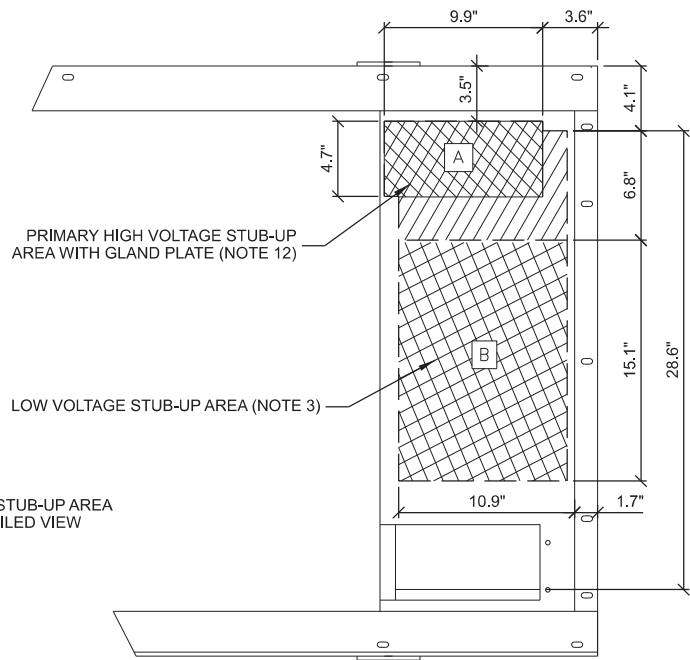
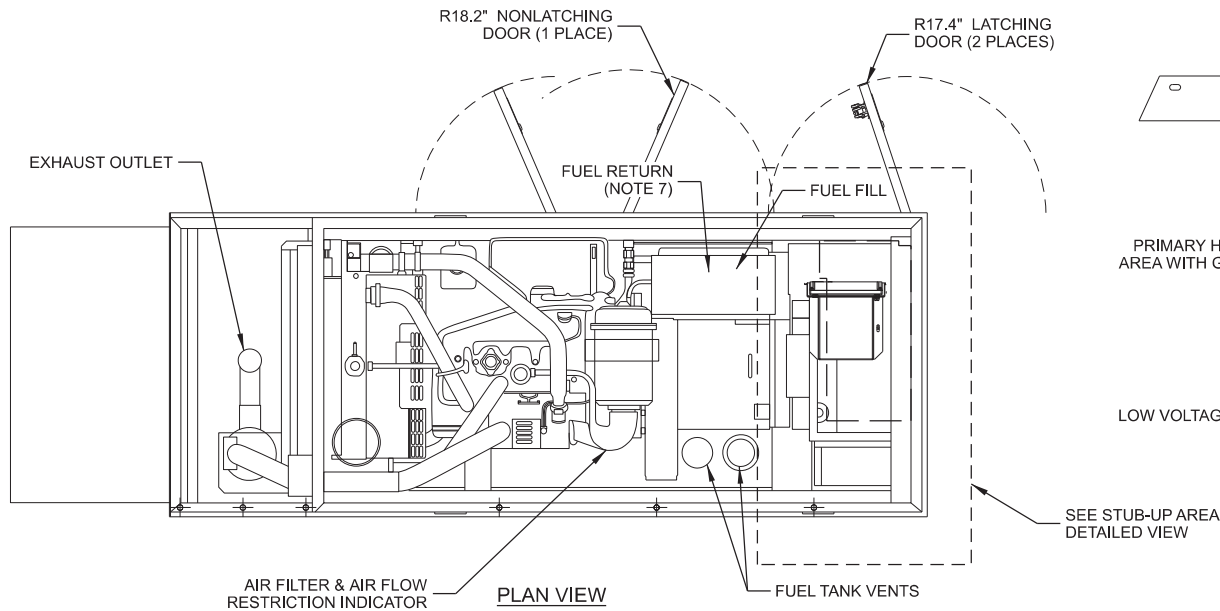
## B CONDENSATE PLATFORM PENETRATION



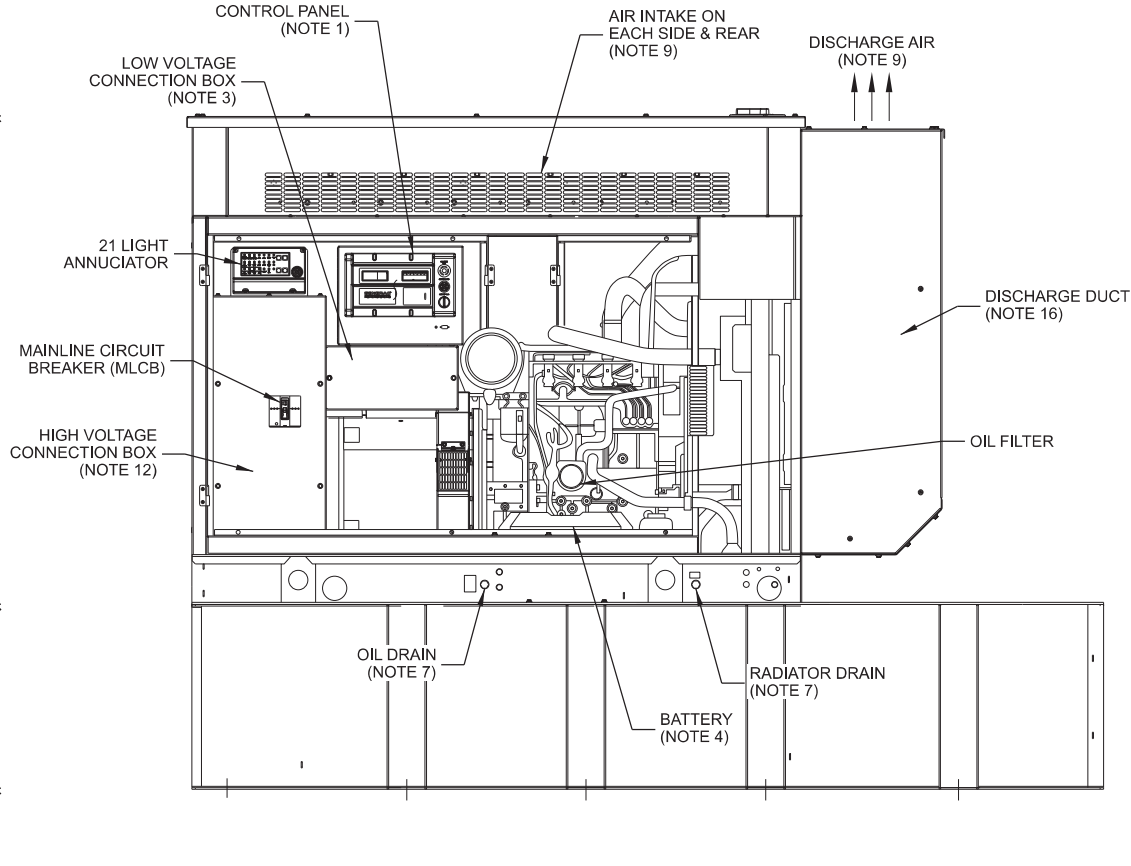
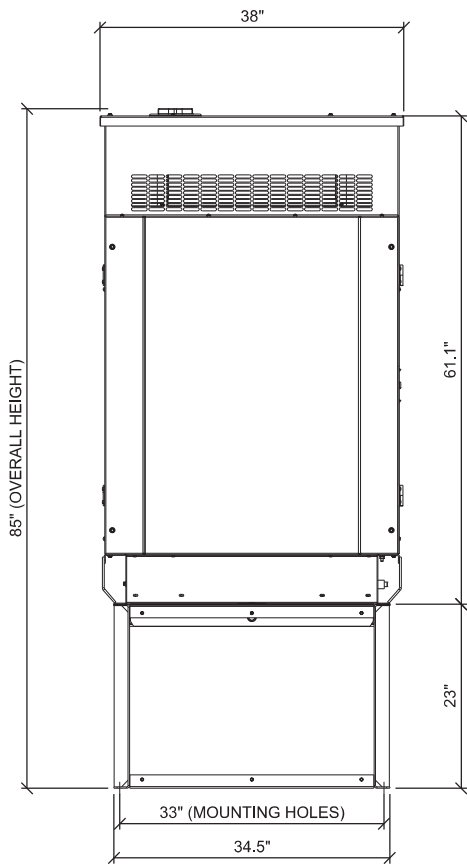
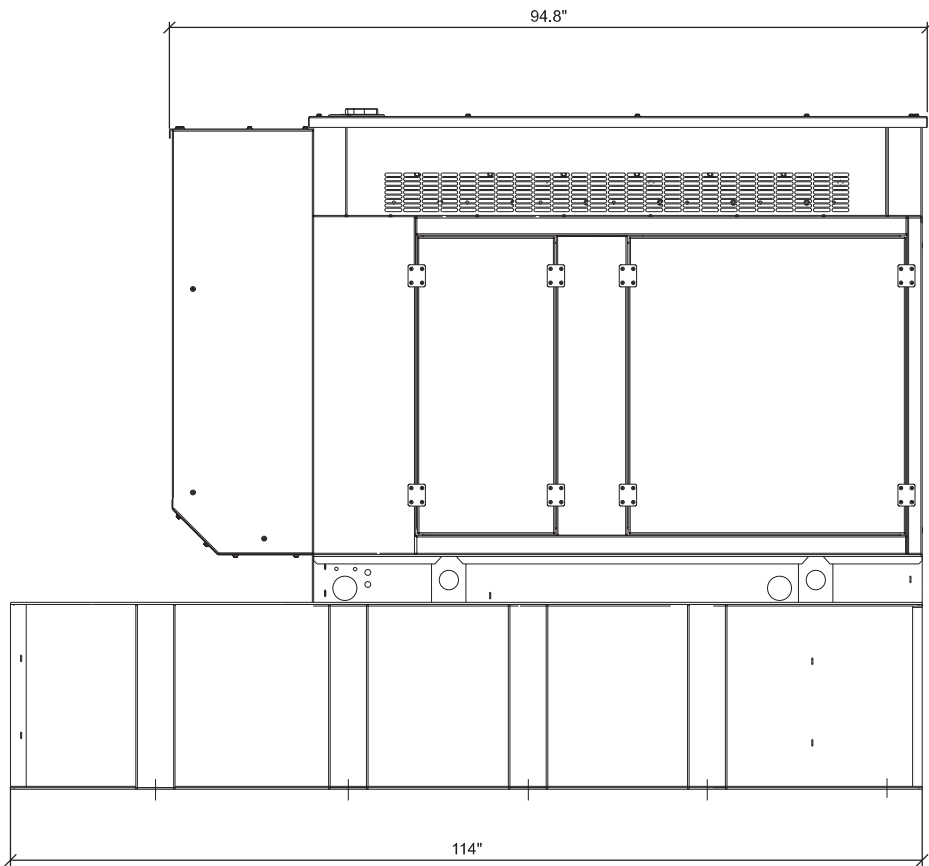
## F CLUSTER BRACKET ON MESSENGER PIPE

**TOWER MODIFICATION DETAILS**  
**HWY 164 & K (FUZE #16805550)**  
**PEWAUKEE, WISCONSIN**

CHECKED BY	SB
PLOT DATE	10/10/2023
PROJECT NUMBER	32691
SET TYPE	STRUCTURAL MODIFICATION
SHEET NUMBER	<b>S-502</b>



- NOTES:
- CONTROL PANEL INCLUDES BATTERY CHARGER WITH THREE PRONG CORD.
  - 1500W 120VAC ENGINE BLOCK HEATER WITH THREE PRONG CORD.
  - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX. BOTTOM HAS KNOCKOUTS FOR 1/2" AND 3/4" CONDUIT FITTINGS. (USE LOW VOLTAGE STUB-UP AREA)
  - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM)
  - MAIN LINE CIRCUIT BREAKER (MLCB) (MLCB HEIGHT MAY VARY WITH CB SELECTION) AC LOAD LEADS CONNECT DIRECTLY TO BOTTOM OF BREAKER.
  - CENTER OF GRAVITY & WEIGHT MAY SHIFT SLIGHTLY DUE TO UNIT OPTIONS.
  - ENGINE SERVICE CONNECTIONS:  
INLET DIESEL = 3/8" NPT  
RETURN DIESEL = 3/8" NPT  
OIL DRAIN = 1/2" NPT  
RADIATOR DRAIN = 1/2" NPT  
EXHAUST OUTLET = 2.5" I.D.
  - STUB-UPS: BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
  - GENERATOR SET MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND DISCHARGE AIR IS NOT RECIRCULATED. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
  - BOTTOM OF GENERATOR SET MUST BE CLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
  - BOLTS OR STUDS USED TO MOUNT UNIT TO PAD SHALL BE 5/8" - 11 GRADE 5. USE STANDARD SAE TORQUE SPECS.
  - HIGH VOLTAGE STUB-UP AREA INCLUDES THE AC LOAD LEAD CONNECTIONS TO MLCB, NEUTRAL CONNECTION AND AUXILIARY 120/240V CONNECTION.
  - 200 GALLON USEABLE CAPACITY TERTIARY SPECIAL TANK.
  - IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATION.
  - UNIT IS SHIPPED WITH FUEL SUPPLY AND RETURN LINES DISCONNECTED AND PLUGGED BETWEEN ENGINE AND FUEL TANK. THIS HAS BEEN DONE TO FACILITATE PRESSURE TESTING OF THE TANK IN THE FIELD. FOR INFORMATION REGARDING CONNECTING THE FUEL SUPPLY AND RETURN LINES PRIOR TO START UP, SEE THE FUEL TANK FIELD TESTING PROCEDURE (0E5082) SUPPLIED IN THE TANK LOOSE VENTS KIT, WHICH IS SHIPPED WITH THIS GENERATOR.
  - SEE DRAWINGS 0C3850 FOR DISCHARGE DUCT REMOVAL. REMOVAL OF DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
  - GENERATOR MUST BE GROUNDED.



**A 30KW GENERAC DIESEL GENERATOR W/ TERTIARY TANK**

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.

624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
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608.644.1549 FAX  
www.edgesconsult.com

CLIENT:

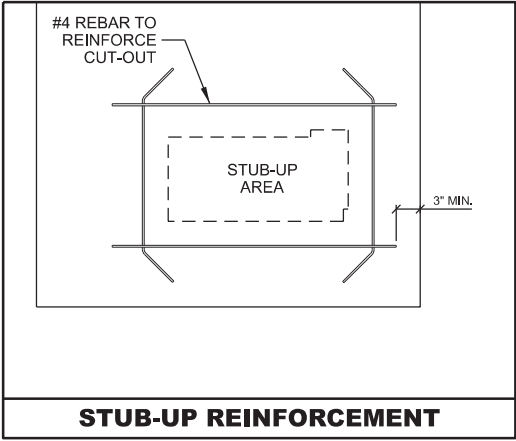
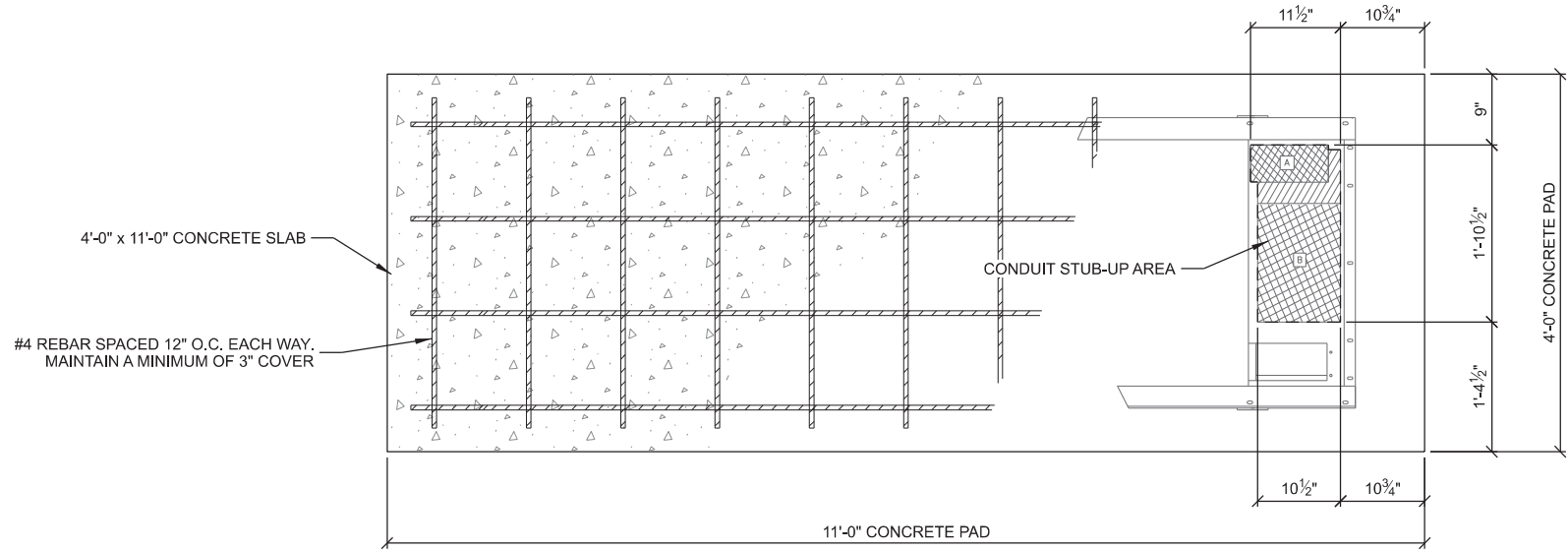
**verizon**

CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**GENERATOR SPECIFICATIONS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	VzW E-001



NOTE:  
VERIFY EXACT CONDUIT STUB-UP  
LOCATIONS WITH GENSET PLANS

**A** GENERAC DIESEL GENERATOR FOUNDATION LAYOUT

**GENERATOR CLEARANCE NOTE:**

- MINIMUM OF 10' OF CLEARANCE FROM COMBUSTIBLE WALL
- MINIMUM OF 5' OF CLEARANCE FROM A NON-COMBUSTIBLE WALL
- MINIMUM OF 20' OF CLEARANCE FROM AN OUTDOOR ELECTRICAL TRANSFORMER OR NORMAL POWER DISTRIBUTION EQUIPMENT

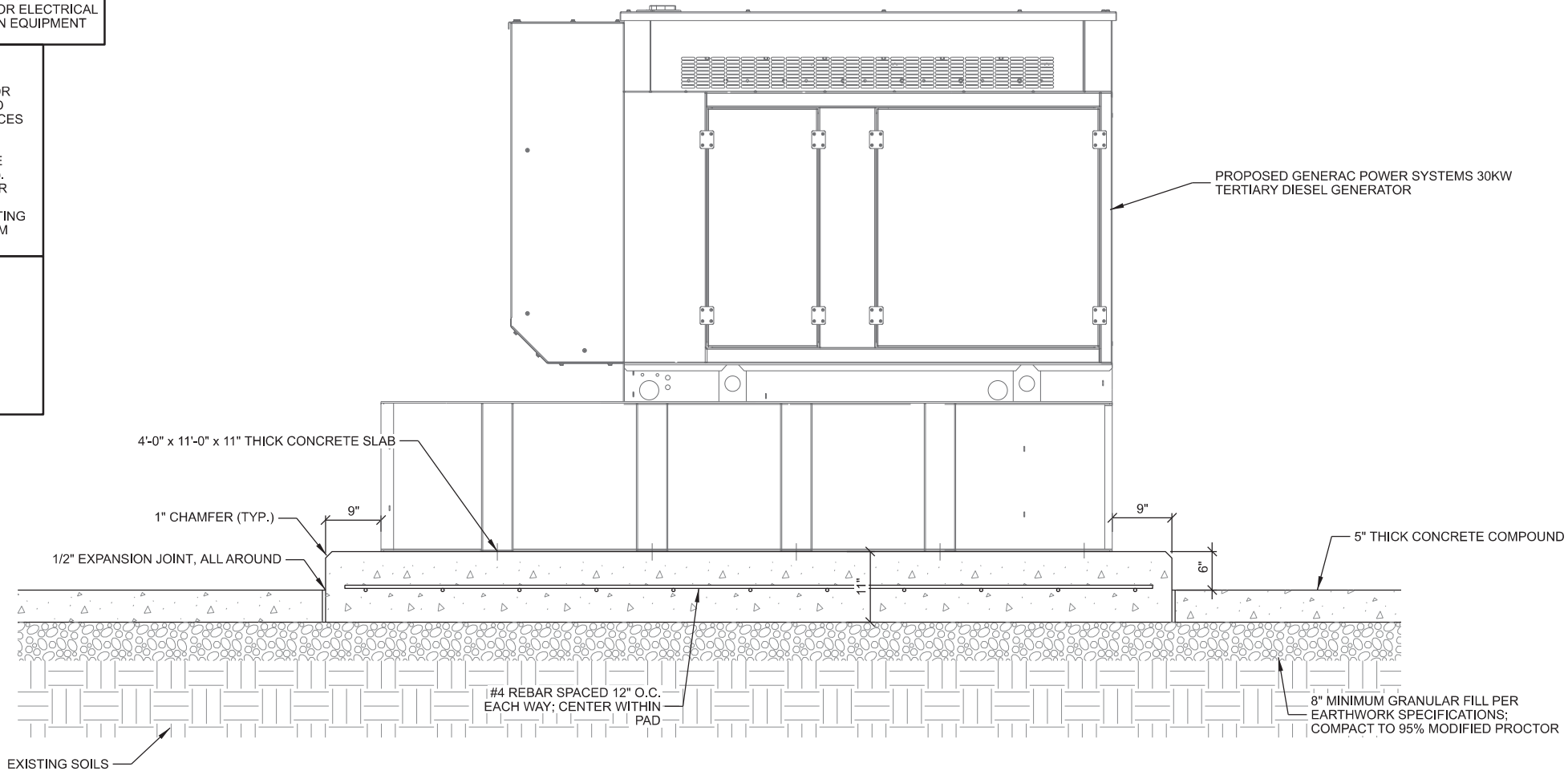
**NOTE:**

SEE GENERATOR MANUFACTURER'S DRAWINGS FOR PHYSICAL LOCATION OF FUEL LINES, CONTROL AND POWER INTERCONNECTIONS AND OTHER INTERFACES THAT ARE TO BE CAST INTO THE CONCRETE. THE PREFERRED METHOD IS TO BRING THE CONDUIT THROUGH THE CONCRETE PAD TO THE UNDERSIDE OF THE GENERATOR (MINIMIZES RODENT DAMAGE). FINISH CONNECTIONS WITH FLEXIBLE CONDUIT PER GENERATOR MANUFACTURER'S SPECIFICATIONS. RIGID CONDUITS SHALL BE SECURED TO THE EXISTING SLAB, THEN BURIED BETWEEN SLAB AND PLATFORM

**NOTE:**

SLAB NOT SUITABLE AT SITES WITH ORGANIC SOIL, UNCOMPACTED FILL, EXPANSIVE SOIL, OR SOILS SUSCEPTIBLE TO FROST HEAVE

REMOVE ALL ORGANIC MATERIAL, SOFT AREAS, AND POOR SOILS BENEATH CONCRETE PAD TO A DEPTH OF ATLEAST 2'-0" BELOW CONCRETE PAD



**B** GENERAC TERTIARY DIESEL GENERATOR FOUNDATION DETAIL

CONSULTANT:

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CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
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1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**GENERATOR SPECIFICATIONS**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

**SUBMITTAL:**

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW E-002**



**KEYNOTES: (THIS SHEET)**

- (A) EQUIPMENT GROUND RING #2 AWG SOLID TINNED COPPER GROUND LEAD MIN. 4'-6" BURY OR 6" BELOW FROST WHICH EVER IS GREATER
- (B) MAINTAIN 2- FOOT CLEARANCE FROM ALL STRUCTURES
- (C) INTERIOR MASTER GROUND BAR (MGB) BY BUILDING MANUFACTURER; CONTRACTOR TO EXTEND (2) #2 SOLID TINNED COPPER GROUND LEADS THROUGH BUILDING WALL @ 45 DEGREE ANGLE AND BOND TO EQUIPMENT BUILDING GROUND RING
- (D) BUILDING GROUND LEAD IN 3/4" DIAMETER PVC CONDUIT
- (E) HVAC GROUNDING, GROUND WITH MECHANICAL CLAMP (DUAL CRIMP COMPRESSION), SEE V2W E-503 FOR DETAIL
- (F) 5/8" DIAMETER x 10'-0" LONG COPPER CLAD GROUND ROD; SPACED AT 8' O.C.
- (G) BOND EQUIPMENT GROUND RING TO THE TOWER BASE PLATE WITH (2) #2 SOLID BARE TINNED COPPER GROUND LEADS
- (H) GENERATOR GROUND; SEE V2W E-501 FOR DETAILS
- (I) GPS GROUND TO INTERIOR SHELTER HALO
- (J) INSPECTION WELL (TYP.); SEE V2W 503 FOR DETAILS
- (K) TOWER GROUND BAR (TGB) INSTALLED ON INTERIOR OF TOWER; SEE V2W E-501 FOR DETAILS
- (L) 4" x 12" x 1/4" GROUND BAR INSIDE HAND HOLE; CONTRACTOR TO DRIVE 10' GROUND ROD & CLAMP TO GROUND BAR (IF APPLICABLE)
- (M) GROUND ELECTRIC METER TO (2) INDEPENDENT GROUND RODS, SPACED 10' O.C. WITH #2 AWG SOLID TINNED COPPER (IF APPLICABLE)
- (N) FENCE CORNER GROUND LEAD; SEE V2W E-503 FOR DETAILS
- (O) MULTI-METER RACK POST (TYP.)
- (P) GATE GROUND LEAD; SEE V2W E-503 FOR DETAILS

GROUNDING NOTE:

1. THIS GROUNDING PLAN WAS PREPARED PRIOR TO THE COMPLETION OF THE GEOTECHNICAL REPORT. THE LAYOUT OF RADIALS AND GROUND RODS ARE APPROXIMATE IN NATURE AND MAY NEED TO BE ADJUSTED IN THE FIELD. GROUND RODS SHOULD NOT EXTEND THROUGH THE TOWER FOUNDATION OR OTHER STRUCTURAL ELEMENTS WITHOUT PRIOR APPROVAL FROM THE DESIGN ENGINEER. IN ADDITION, SOME ADJUSTMENT TO THE GROUND METHOD MAY BE REQUIRED IN INSTANCES WHERE SHALLOW BEDROCK OR OTHER UNIQUE CIRCUMSTANCES ARE ENCOUNTERED. CONTRACTOR SHALL CONSULT GEOTECHNICAL REPORT FOR FURTHER DESIGN AND CONSTRUCTION RECOMMENDATIONS.

## NOTES:

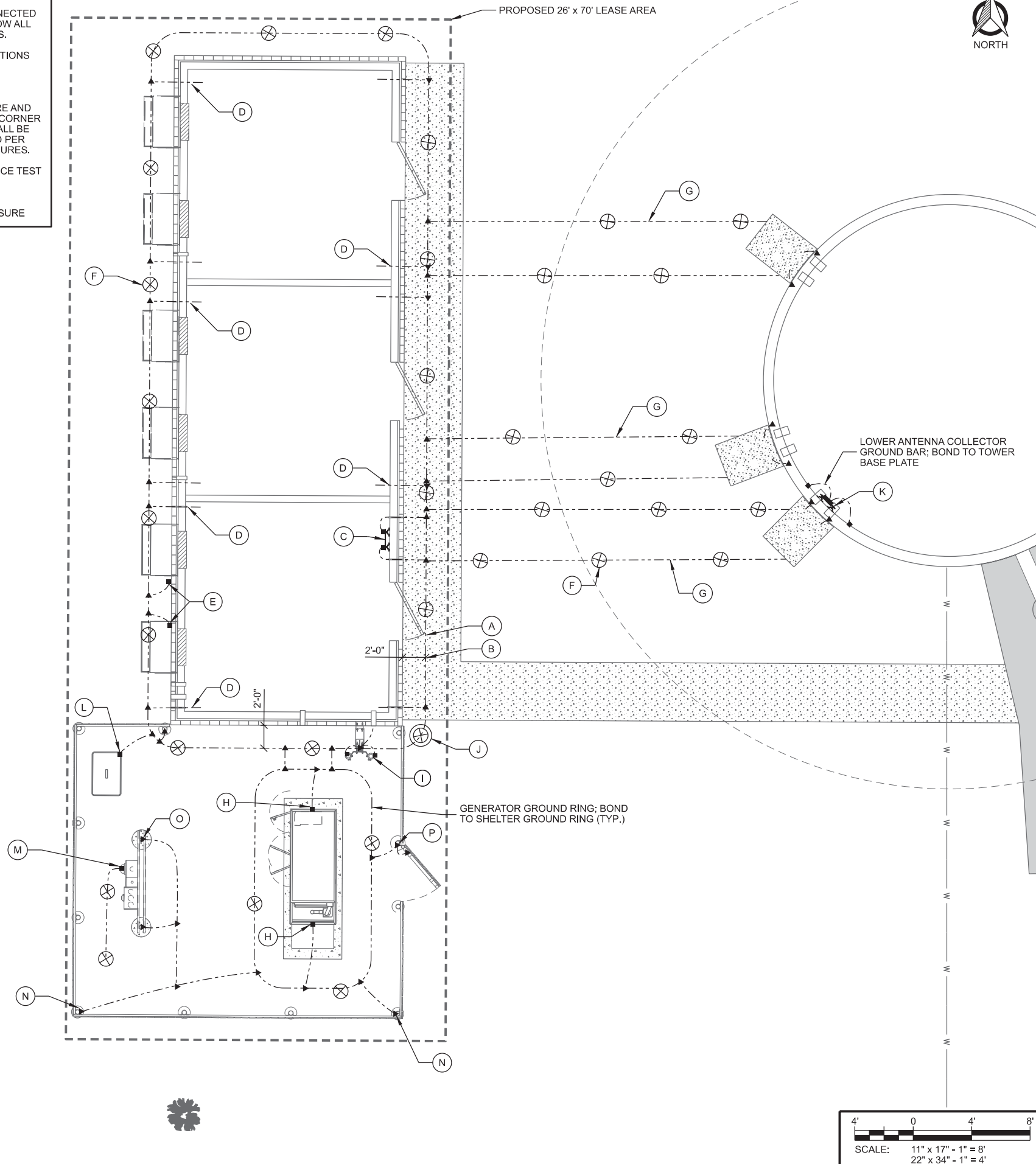
1. THE GROUNDING SHALL BE TESTED PRIOR TO FINAL BACKFILLING. DOCUMENTATION OF 5 OHM OR LESS RESISTANCE TO BE PROVIDED TO PROJECT MANAGER.
2. ALL NON-INSULATED GROUND LEADS EXTENDING ABOVE GROUND LEVEL SHALL BE ENCASED IN 3/4" PVC & SEALED WITH SILICONE. PVC SHALL BE MIN. 16" INTO EARTH & EXTEND MIN. 6" ABOVE GROUND.
3. INSTALL 18" X 18" COPPER PLATES IN LIEU OF GROUND RODS WHEN INSTALLING OVER TOWER FOUNDATION OR WHERE DRIVING GROUND RODS IS NOT FEASIBLE.

### GROUNDING LEGEND: (THIS SHEET)

- ▲ EXOTHERMIC OR UL RATED IRREVERSIBLE CONNECTION
- MECHANICAL CONNECTION
- — — GROUND LEAD
- ⊗ INSPECTION WELL
- 5/8" DIA. x 10'-0" LONG, STEEL CLAD W/ A PURE  
COPPER JACKET (10' MAX SEPARATION):  
TOP OF EACH GROUND ROD SHALL EXTEND NO MORE  
THAN 6" ABOVE BOTTOM OF TRENCH
- ⊗
- 18" X 18" X .032" THK COPPER PLATE (10' MAX SEPARATION)

GROUNDING ELECTRODE SYSTEM NOTES:

1. CONNECTIONS:  
ALL CONNECTIONS SHALL BE EXOTHERMICALLY CONNECTED UNLESS NOTED OTHERWISE. CONTRACTOR TO FOLLOW ALL MANUFACTURER'S GUIDELINES & RECOMMENDATIONS.
2. ALL ELECTRICAL AND MECHANICAL GROUND CONNECTIONS SHALL HAVE ANTI-OXIDANT COMPOUND APPLIED TO CONNECTION.
3. FENCE/GATE:  
GROUND FENCE POSTS WITHIN 6-FEET OF ENCLOSURE AND 25-FEET OF TOWER. GROUND EACH GATE POST AND CORNER POST. GROUND CONNECTIONS TO FENCE POSTS SHALL BE MADE BY THE EXOTHERMIC PROCESS AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND PROCEDURES.
4. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS FOLLOWS:
  - A. ONE (1) COPY TO THE OWNER REPRESENTATIVE
  - B. ONE (1) COPY TO THE ENGINEER
  - C. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE



CONSULTANT:



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CLIENT:



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d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**GROUNDING PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

## SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
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CV	05/08/23	REV. D
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CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

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PLOT DATE	10/20/2023
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PROJECT NUMBER	32691
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SET TYPE	DRAFT
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SHEET NUMBER	<b>VzW E-101</b>
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NOTE:

UTILITIES TO BE DIRECTIONALLY BORED FROM  
HWY 164 TO THE PROPOSED FENCED COMPOUND

EXISTING SIDE WALK

EXISTING OVERHEAD POWER LINE

PROPOSED VERIZON FIBER VAULT (BELOW  
GRADE) AT R.O.W/ PROPERTY LINE MEET  
POINT (SOURCE TBD);  
SEE VzW E-505 FOR DETAILS

PROPOSED TRANSFORMER  
(SOURCE TBD)

NOTE:

- FIBER COORDINATION IS NOT COMPLETE (PENDING FIBER CONTACT).  
PRIOR TO CONSTRUCTION, CONTACT DESIGNER FOR UPDATE.

UTILITY PROVIDER INFO:

ELECTRIC PROVIDER: TBD

FIBER OPTIC PROVIDER: TBD

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**UTILITY PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:

PCM

PLOT DATE:

10/20/2023

PROJECT NUMBER:

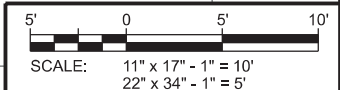
32691

SET TYPE:

DRAFT

SHEET NUMBER:

**VzW E-102**



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NOTES:

- THE LOCATIONS OF 4" x 4" JUNCTION BOXES AND SMALLER ITEMS CAN BE ADJUSTED AS REQUIRED TO PREVENT INTERFERENCE WITH TRIM PIECES. INTERFERENCE WITH OTHER COMPONENTS WILL REQUIRE TRIM TO BE CUT
- ALL CONDUIT TO HAVE A MINIMUM OF 3/4" BETWEEN THEM
- ALL RECEPTACLES TO BE MOUNTED 18" A.F.F.
- ALL LIGHT SWITCHES TO BE MOUNTED 54" A.F.F.
- ALL WIRE TO BE COPPER #12 AWG MINIMUM. NO BX OR ROMEX CABLE PERMITTED
- ALL CONDUIT TO BE 1/2" UNLESS OTHERWISE NOTED.

CONDUIT KEY

- 1/2" CONDUIT
- - - 3/4" CONDUIT
- - - 1" CONDUIT

HVAC UNIT (TYP. OF 2)

ALL ELECTRICAL AND GROUNDING CONDUCTORS TO BE SURFACE MOUNTED ON THE INTERIOR OF THE EQUIPMENT ROOM AND PLACED IN CONDUIT WHEN CODE REQUIRES

1' x 4' CEILING MOUNTED LIGHT FIXTURE

FLEXIBLE NON-METALLIC CONDUIT

6" x 6" RECTIFIER JUNCTION BOX

4" x 4" JUNCTION BOX

EXIT LIGHT

120V, 20A RECEPTACLE OUTLET, (TYP. OF 6)

CLEARANCE PER NEC

6" x 6" JUNCTION BOX

INTEGRATED LOAD CENTER

INTEGRATED LOAD CENTER; SEE PAGE VzW E-506 FOR DETAIL

CONSULTANT:

**Edge**  
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624 WATER STREET  
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CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**SHELTER ELECTRICAL PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
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CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

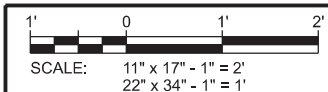
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PLOT DATE: 10/20/2023

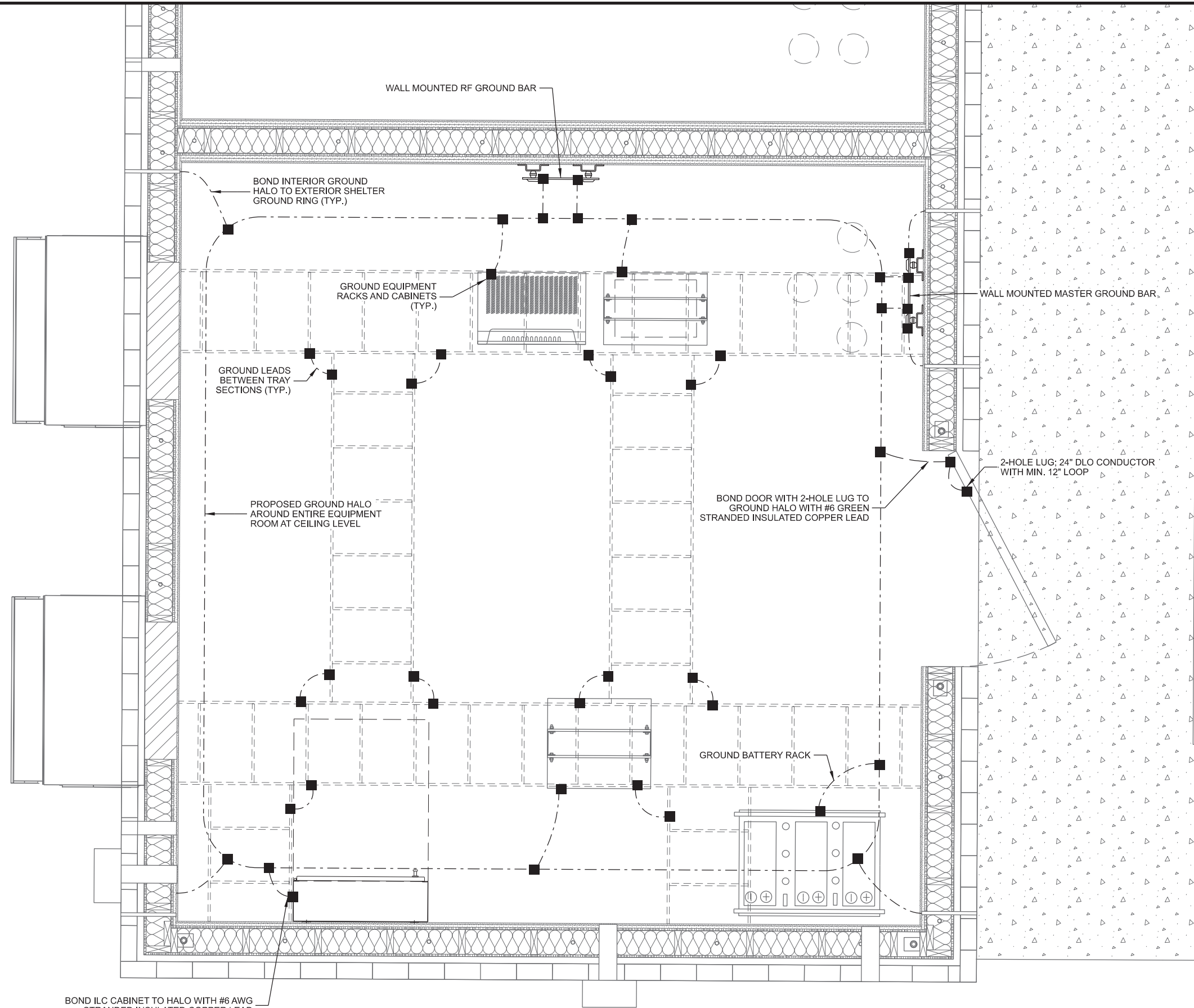
PROJECT NUMBER: 32691

SET TYPE: DRAFT

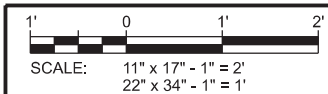
SHEET NUMBER: **VzW E-103**







BOND ILC CABINET TO HALO WITH #6 AWG  
STRANDED INSULATED COPPER LEAD



CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
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www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**EQUIPMENT ROOM GROUNDING PLAN**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
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CV	05/08/23	REV. D
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CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: **VzW E-104**

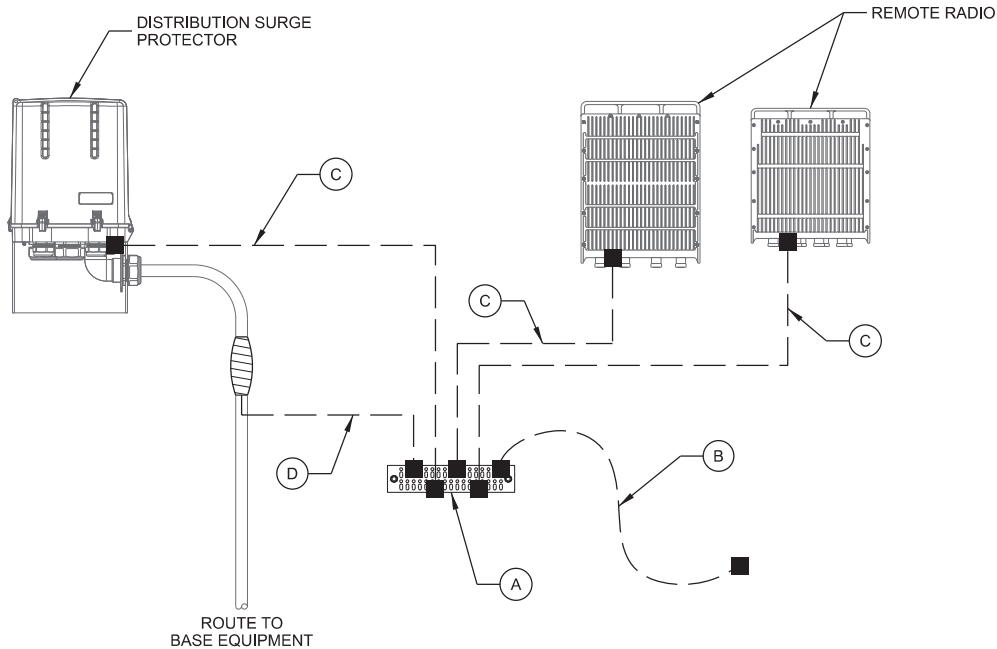


KEYNOTES: (THIS SHEET)

- (A) 1/4" x 4" x 12" COLLECTOR GROUND BAR (CGB) FOR CONNECTION OF MULTIPLE GROUND KITS AT ONE LEVEL
- (B) CGB GROUND #2 AWG GREEN-INSULATED STRANDED COPPER LEAD WITH 2 HOLE LONG BARREL AND UL LISTED BONDING CLAMP TO TOWER STEEL AND/OR MOUNT STEEL
- (C) ANCILLARY EQUIPMENT GROUND KIT #2 AWG STRANDED INSULATED LEAD TO GROUND BAR WITH 2 HOLE LONG BARREL LUG (TYP.)
- (D) CABLE GROUND #2 AWG STRANDED INSULATED TO GROUND BAR WITH 2 HOLE LONG BARREL LUG (TYP.)
- (E) MASTER GROUND BAR BY BUILDING MFR. ELECTRICAL CONTRACTOR TO EXTEND (2) #2 SOLID BARE TINNED COPPER GROUND LEADS DOWN THROUGH BUILDING WALL AT 45° ANGLE AND INTO 3/4" PVC CONDUITS.
- (F) (2) #2 SOLID BARE TINNED COPPER GROUND LEADS IN SEALED 3/4" PVC CONDUITS FROM EQUIPMENT RING TO MGB. CONTRACTOR TO PROVIDE ALL REQ'D CADWELD CONNECTIONS; ALL LEADS TO BE ENCASED IN FLEXIBLE LIQUID-TIGHT CARFLEX CONDUIT TO 24" BELOW GRADE
- (G) PROVIDE (2) #2 SOLID BARE TINNED COPPER GROUND LEADS FROM LOWER TOWER GROUND BAR TO TOWER BASE PLATE STEEL

GROUNDING LEGEND: (THIS SHEET)

- ▲ EXOTHERMIC OR UL RATED IRREVERSIBLE CONNECTION
- MECHANICAL CONNECTION
- GROUND LEAD



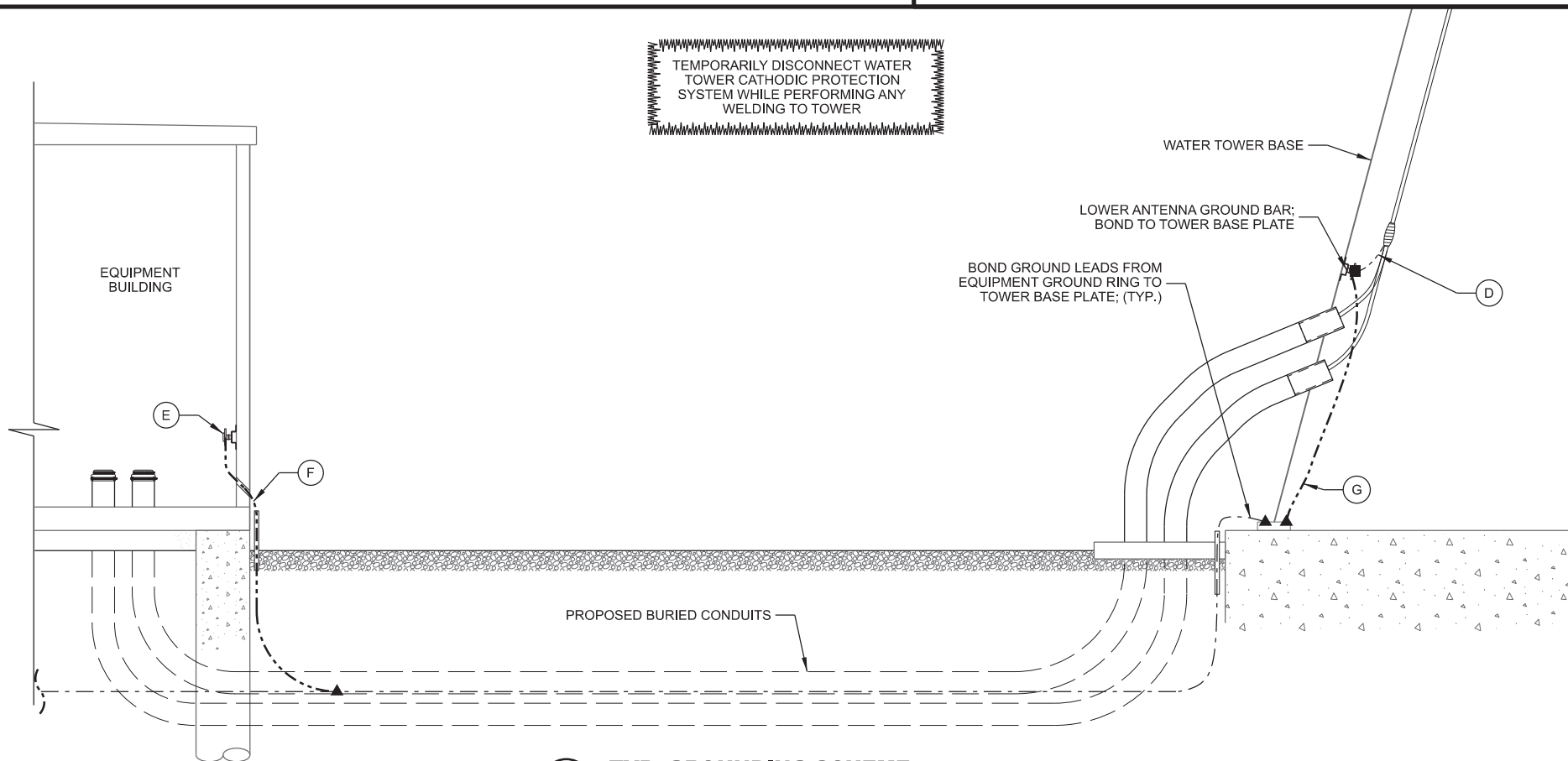
NOTES:

- ALL CABLING AND/OR GROUNDING RUNS SHALL BE INSTALLED IN A NEAT AND ORDERLY FASHION.
- CONTRACTOR SHALL INSTALL PER LATEST EDITION OF THE N.E.C.
- SCHEMATIC DETAIL ONLY. REFER TO ANTENNA AND EQUIPMENT CONFIGURATION FOR EQUIPMENT QUANTITY AND LOCATION.
- ALL GROUND LEADS TO BE ROUTED IN A DOWNWARD FASHION.

A ANTENNA LEVEL GROUNDING

NOTES: (THIS SHEET)

- ALL BELOW-GRADE CONNECTIONS ARE TO BE EXOTHERMICALLY WELDED A MINIMUM OF 48" BELOW GRADE.
- ALL LEADS EXTENDING ABOVE GRADE TO BE ENCASED IN 3/4" CONDUIT AND EXTEND A MINIMUM OF 6" ABOVE FINISHED GRADE AND 24" BELOW FINISHED GRADE.
- APPLY COLD GALVANIZATION TO ALL ABOVE-GROUND EXOTHERMICALLY WELDED CONNECTIONS.
- APPLY ANTI OXIDANT COMPOUND TO ALL MECHANICAL CONNECTIONS.
- UPPER AND LOWER TOWER GROUND BARS TO BE BONDED DIRECTLY TO TOWER STEEL WITH #2 CONDUCTORS.
- AIR TERMINAL TO EXTEND 2' ABOVE HIGHEST ANTENNA MIN. ON MAST PIPE MECHANICALLY FASTEN AIR TERMINAL TO MAST PIPE MAST PIPE TO BE MECHANICALLY CONNECTED TO TOWER STEEL

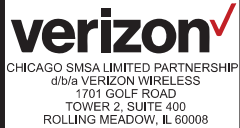


B TYP. GROUNDING SCHEME

CONSULTANT:



CLIENT:

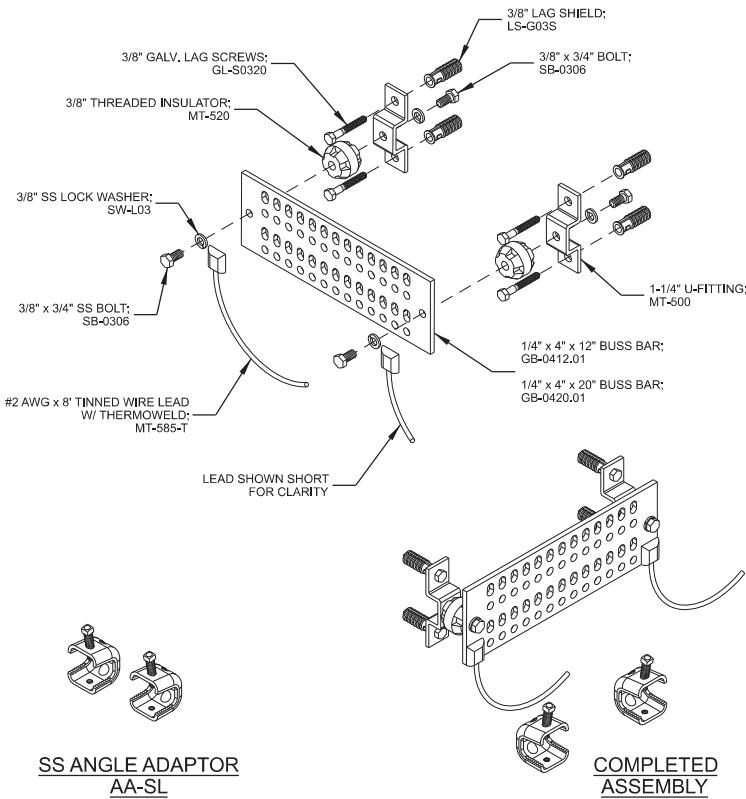


GROUNDING DETAILS  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

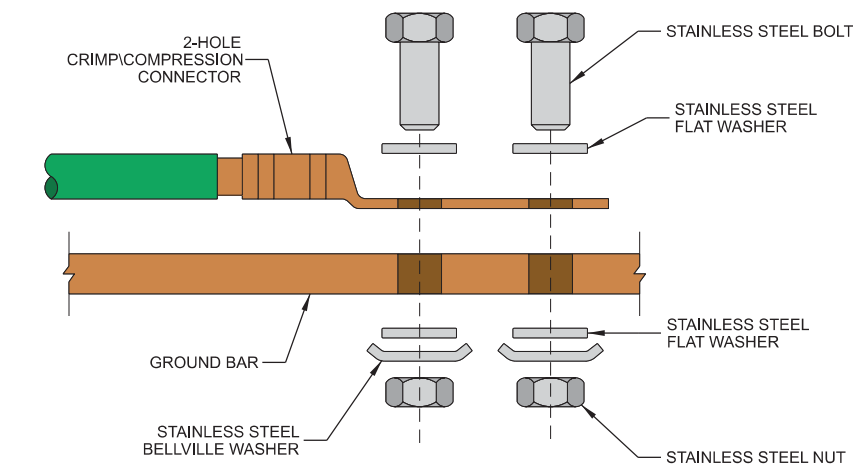
SUBMITTAL:

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CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	VzW E-501

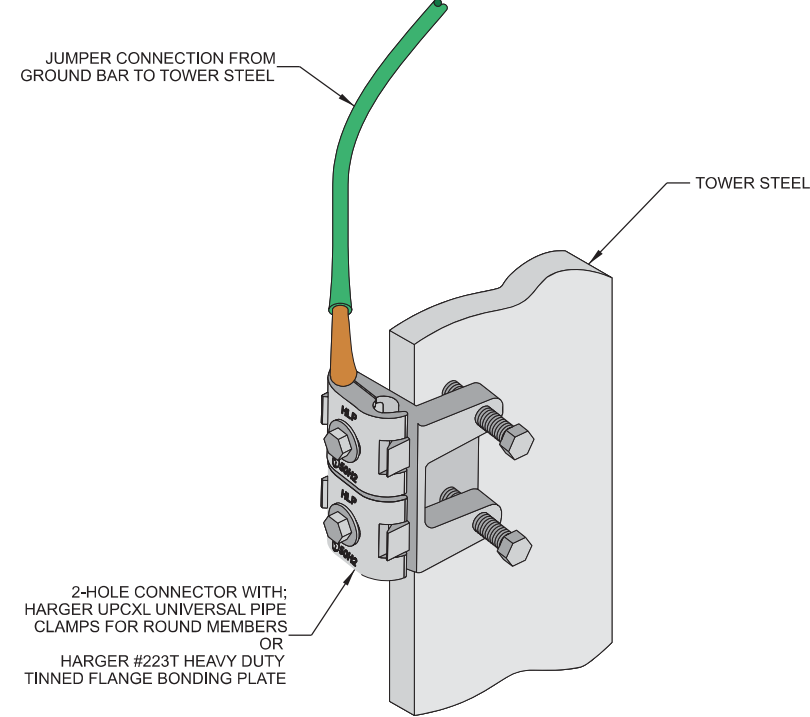


**A** GROUND AND BUSS BAR



- NOTES:
1. ALL OUTDOOR HARDWARE (BOLTS, SCREWS, NUTS, WASHERS) SHALL BE 18-8 STAINLESS STEEL TYPE GRADE. INDOORS, GRADE 5 STEEL HARDWARE MAY BE USED.
  2. CHOOSE BOLT LENGTH TO ALLOW THE EXPOSURE OF AT LEAST TWO THREADS.
  3. BACK TO BACK LUG CONNECTIONS ARE AN ACCEPTABLE PRACTICE WHEN BONDED TO A GROUND BAR OR STEEL OBJECTS.
  4. AT CONNECTIONS MADE TO STEEL OR ANY OTHER DISSIMILAR METALS, A DRAGON TOOTH WASHER MEETING VZW PRACTICES SHALL BE USED BETWEEN THE CONNECTOR AND STEEL.
  5. IF NOT USING DRAGON TOOTH WASHERS, THOROUGHLY REMOVE A SECTION OF PAINT OR COATING APPROXIMATELY THE SAME SIZE AS CONNECTOR. REMOVE THE PAINT FROM SURFACE USING A DREMEL TYPE TOOL.
  6. USE AN APPROVED ANTI-OXIDATION COMPOUND ON ALL GROUNDING CONNECTIONS. A COPPER COSMOLINE GREASE BASED COMPOUND (NO OX-ID) SHALL BE USED ON ALL COPPER TO COPPER CONNECTIONS. A ZINC BASED (GREY COLORED) COMPOUND SHALL BE USED ON ALL COPPER TO STEEL CONNECTIONS.
  7. WHEN BONDING TO A METALLIC OBJECT WHERE ACCESS IS LIMITED TO ONLY ONE SURFACE, DRILLING & TAPPING OR SELF DRILLING SCREWS ARE THE PREFERRED AND ACCEPTABLE MEANS OF CONNECTION. SHEET METAL SCREWS SHALL NOT BE USED.

**B** GROUNDING LUG

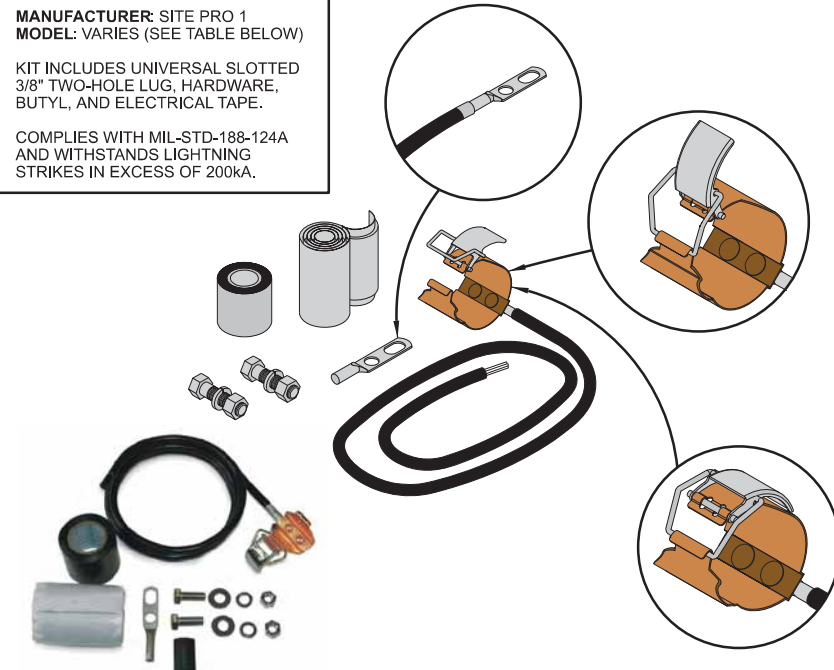


**C** GROUND BAR CONNECTION TO TOWER STEEL

MANUFACTURER: SITE PRO 1  
MODEL: VARIES (SEE TABLE BELOW)

KIT INCLUDES UNIVERSAL SLOTTED  
3/8" TWO-HOLE LUG, HARDWARE,  
BUTYL, AND ELECTRICAL TAPE.

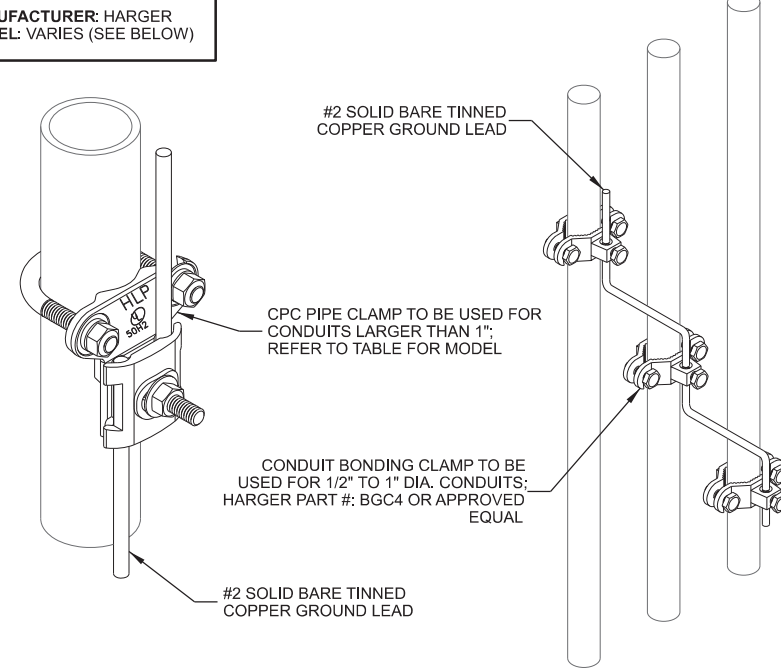
COMPLIES WITH MIL-STD-188-124A  
AND WITHSTANDS LIGHTNING  
STRIKES IN EXCESS OF 200kA.



PART #	CABLE SIZE & TYPE	LENGTH	LUG	WEIGHT
GK-C12	1/2" CORRUGATED	5'	UNATTACHED	1.50 LB.
GK-C78	7/8" CORRUGATED	5'	UNATTACHED	1.65 LB.
GK-C114	1-1/4" CORRUGATED	5'	UNATTACHED	1.70 LB.
GK-C158	1-5/8" CORRUGATED	5'	UNATTACHED	1.70 LB.
GK-C214	2-1/4" CORRUGATED	5'	UNATTACHED	1.80 LB.

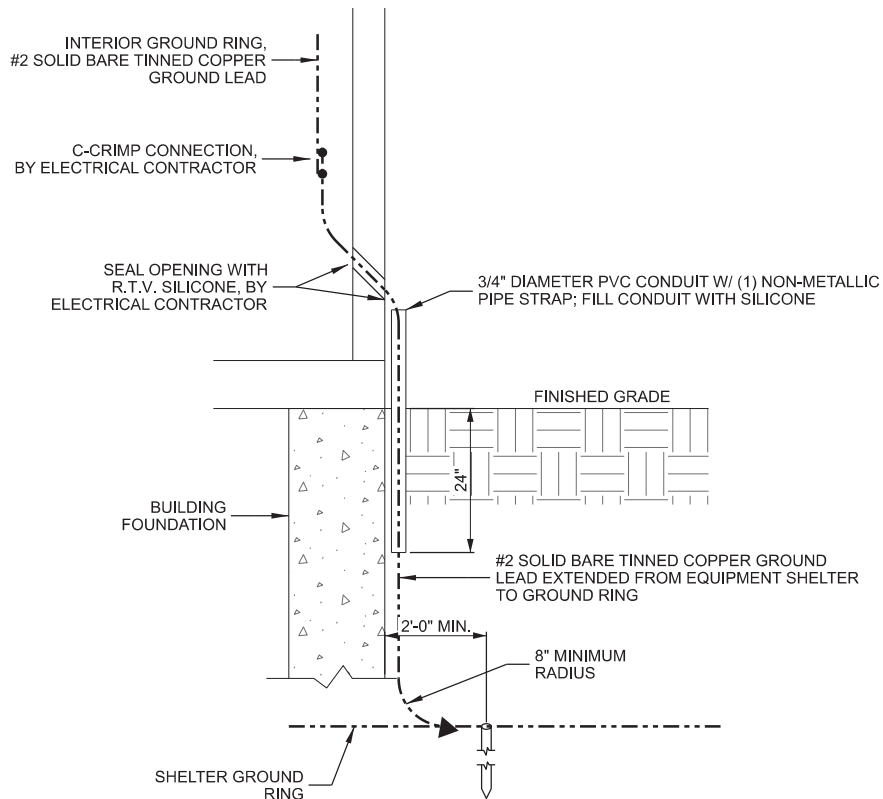
**D** CLIP ON GROUND KIT

MANUFACTURER: HARGER  
MODEL: VARIES (SEE BELOW)



PART #	NOMINAL PIPE SIZE RANGE	PIPE OUTSIDE DIAMETER
CPC1/1.25	1" - 1.25"	0.9375" - 1.7"
CPC1.5/2	1.5" - 2"	1.25" - 2.4"
CPC2.5/3	2.5" - 3"	2.5" - 3.5"
CPC3.5/4	3.5" - 4"	3.375" - 4.5"
CPC5/6	5" - 6"	4.75" - 6.63"

**E** CONDUIT GROUNDING



**F** BUILDING CORNER GROUNDING DETAIL

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
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CLIENT:

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CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**GROUNDING DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE	DESCRIPTION:
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CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY: PCM

PLOT DATE: 10/20/2023

PROJECT NUMBER: 32691

SET TYPE: DRAFT

SHEET NUMBER: VzW E-502

## A GROUND TRENCH

## **B** POST GROUNDING

## C INSPECTION WELL

### D GATE GROUNDING DETAIL

## **E MECHANICAL CONNECTIONS**

## F HVAC GROUNDING DETAIL

CONSULTANT:



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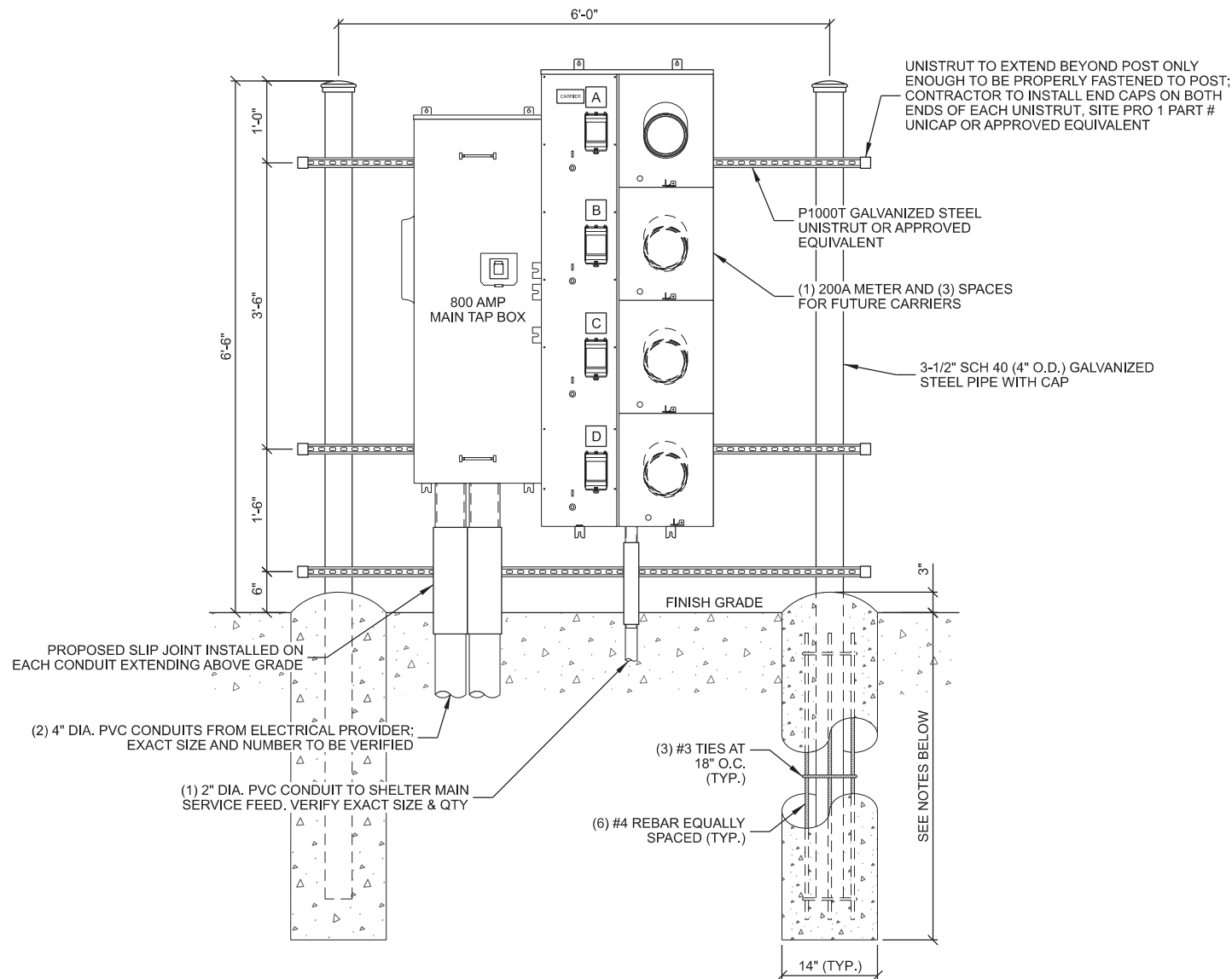
**verizon**   
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**GROUNDING DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
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CV	10/20/23	REV. I
CHECKED BY	PCM	
PLOT DATE	10/20/2023	
PROJECT NUMBER	32691	
SET TYPE	DRAFT	
SHEET NUMBER	<b>VzW E-503</b>	



UTILITY RACK LAYOUT HAS BEEN REVIEWED BY ELECTRIC PROVIDER; ALL DEVIATIONS FROM UTILITY RACK DETAIL TO BE APPROVED BY (CONTACT) FROM (PROVIDER)



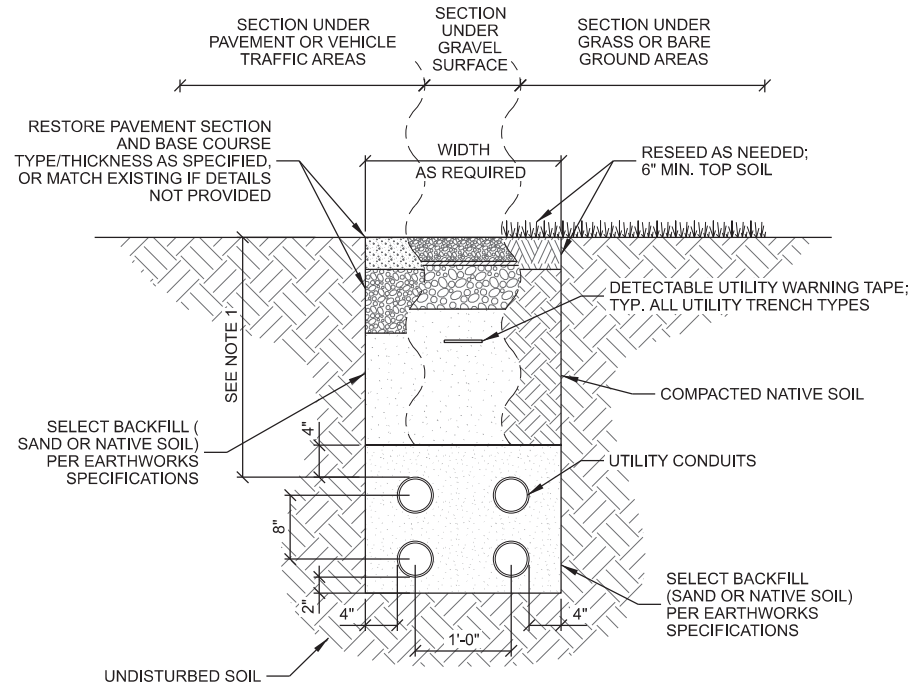
FRONT - ELECTRICAL SIDE

NOTE:

1. INSTALL PVC CONDUITS FOR SERVICE LATERAL CONNECTION TO UTILITY.
2. EXTEND SERVICE LATERAL CONDUITS UNDERGROUND BEYOND FENCELINE. CAP ENDS (NO DUCT TAPE ALLOWED) AND STAKE. EQUIP WITH PULL CORD. VERIFY REQUIREMENTS W/UTILITY PROVIDER.
3. MARK CARRIER METER SLOT @ BREAKER OR SOCKET EXTERIOR.
4. SOD EZ METER PAK, 120/240 VAC 1 PHASE, 3 WIRE OR EQUIV. VERIFY REQUIREMENTS WITH UTILITY PROVIDER
5. FINAL LAYOUT AND DESIGN DETERMINED BY CONTRACTOR/UTILITY. VERIFY FINAL DESIGN WITH THE CARRIER.
6. CONCRETE FOR PIER TO BE A MINIMUM OF 4,000 PSI AT 28 DAYS.
7. MAINTAIN 3" MINIMUM REBAR COVER IN ALL DIRECTIONS.
8. PIER FOUNDATION DEPTH TO BE A MINIMUM OF 48"; DEPTH TO EXCEED LOCAL FROST DEPTH.

**A** **MULTI-METER UTILITY RACK**

SCALE: 11" x 17" - 1/2" = 1'-0"  
22" x 34" - 1" = 1'-0"



NOTES:

1. UTILITY CONDUITS TO BE BURIED A MINIMUM DEPTH OF 42" BELOW GROUND LEVEL OR 6" BELOW THE FROST LINE.

**B** **UTILITY TRENCH**

**WARNING TAPE & TRACE WIRE NOTES: (THIS SHEET)**

1. WARNING TAPE TO BE INSTALLED ABOVE THE ELECTRICAL RUN FROM THE GENERATOR TO THE PLATFORM AND ABOVE THE FUEL LINE BETWEEN THE GENERATOR AND FUEL SOURCE.
2. WARNING TAPE SHALL BE RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH AND INSTALLED 12 INCHES ABOVE THE TOP OF THE CONDUITS
3. TRACER WIRE SHALL RUN CONTINUOUSLY ALONG THE ENTIRE LENGTH OF THE BURIED GAS AND ELECTRIC CONDUITS
4. TRACER WIRE SHALL BE SECURED TO THE CONDUIT AND MAINTAINED ABOVE THE CONDUIT CENTERLINE DURING TRENCH BACKFILLING.
5. TRACER WIRE TO EXTEND TO THE TOP OF PVC ABOVE CONCRETE ON BOTH ENDS - LOOP AND WRAP AROUND APPROPRIATE CONDUIT.
6. TRACER WIRE SHALL CONSIST OF 14GA. SOLID COPPER WIRE WITH A CORROSION PROTECTIVE COATING.
7. INSTALL TRACER WIRE WITH SPACER AND SECURE PER MNFG. RECOMMENDATIONS - AT A MIN. EVERY 10' AND AT ALL BENDS. - DO NOT WRAP BURIED CONDUIT WITH TRACER WIRE TO AVOID UNNECESSARY STRESS ON TRACER. - CONTRACTOR TO CHECK CONTINUITY OF TRACER WIRE BEFORE AND AFTER BURIAL AND DOCUMENT RESULTS. 12" ABOVE THE TOP OF THE CONDUITS.

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**UTILITY DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

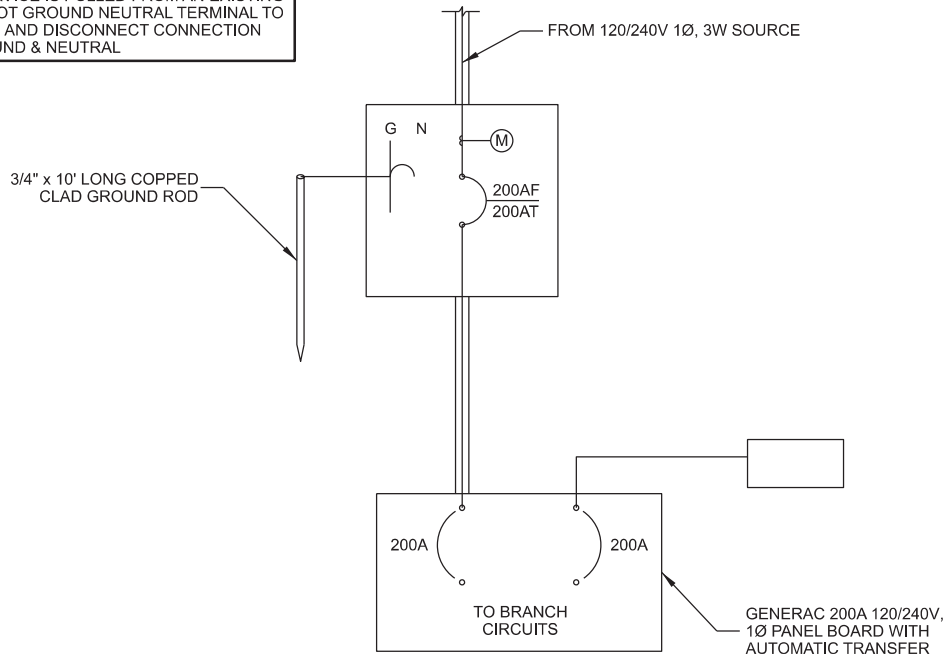
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CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	<b>VzW E-504</b>

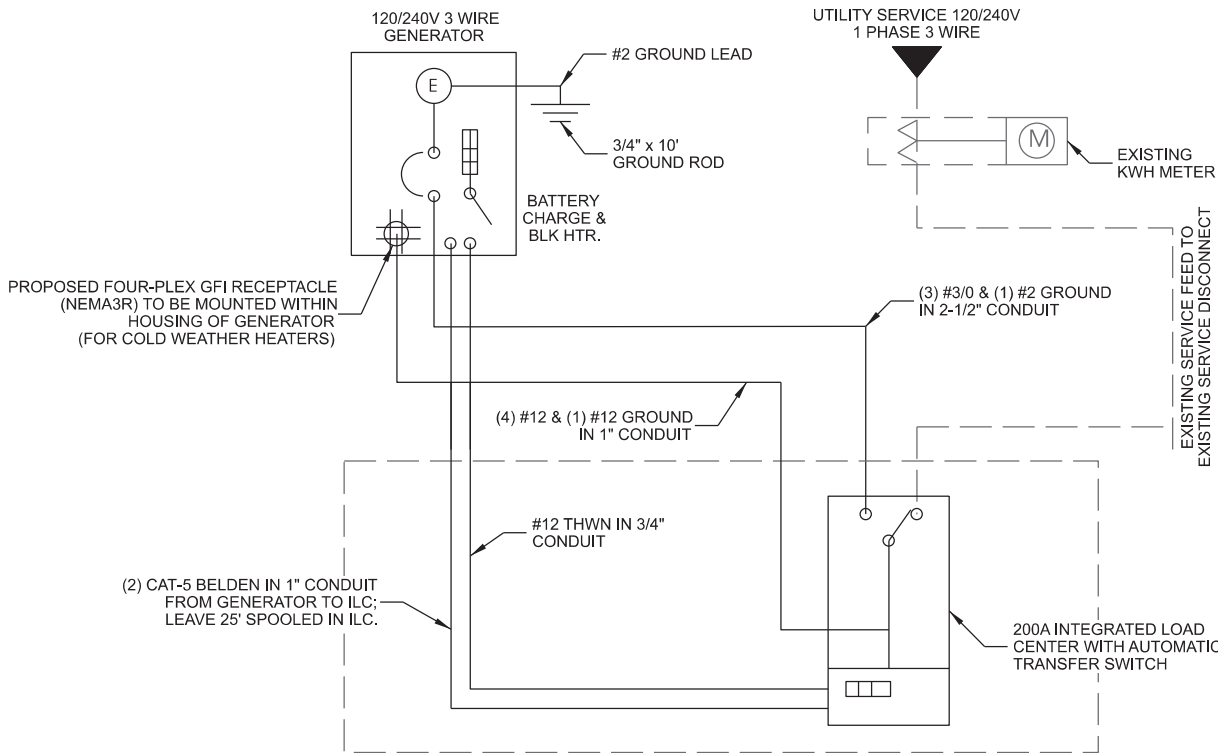


IF LESSEE SERVICE IS METERED AT A MULTI-METER GANG OR IF SERVICE IS PULLED FROM AN EXISTING BUILDING, DO NOT GROUND NEUTRAL TERMINAL TO EARTH GROUND AND DISCONNECT CONNECTION BETWEEN GROUND & NEUTRAL



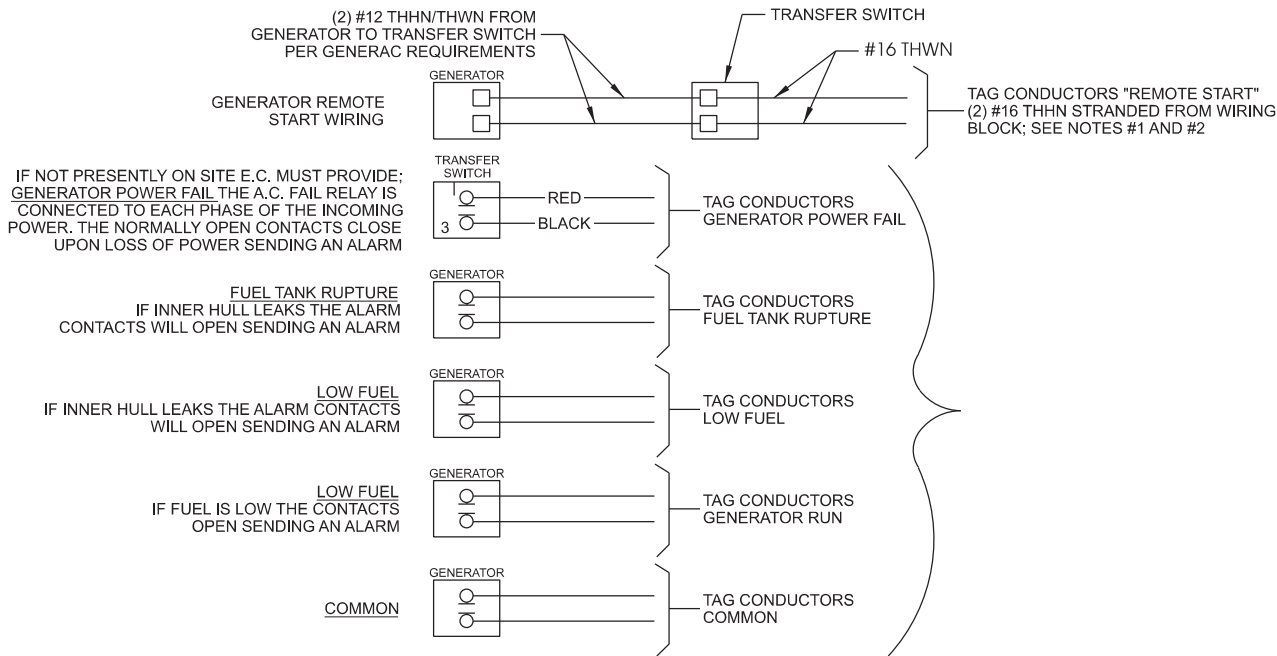
- NOTE:
- STANDARD DIAGRAM PROVIDED BY CLIENT, INCLUDED HERE FOR CONVENIENCE ONLY.

### A ELECTRIC LINE DIAGRAM



- NOTE:
- STANDARD DIAGRAM PROVIDED BY CLIENT, INCLUDED HERE FOR CONVENIENCE ONLY.

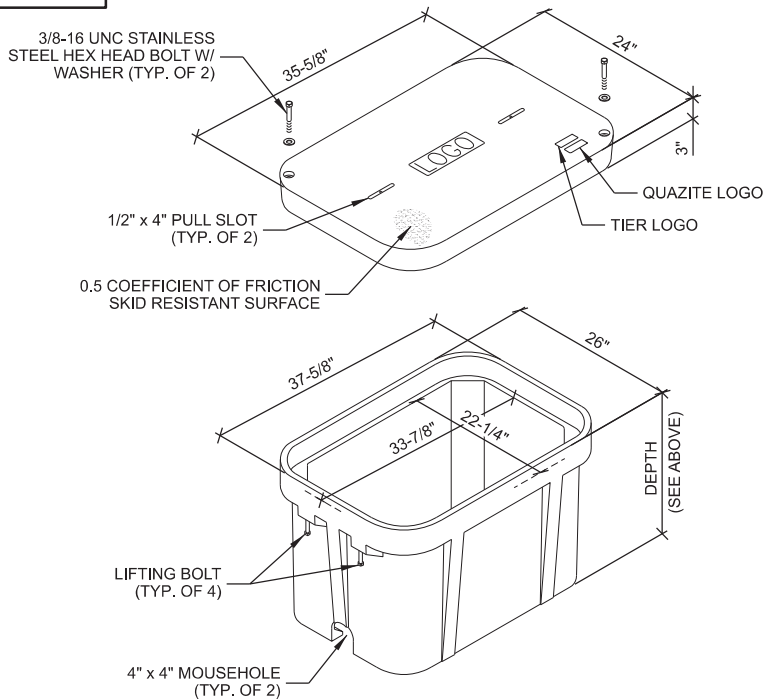
### B GENERATOR SINGLE LINE DIAGRAM



- NOTES:
- STANDARD DIAGRAM PROVIDED BY CLIENT, INCLUDED HERE FOR CONVENIENCE ONLY.
  - ELECTRICAL CONTRACTOR TO PULL (1) #16 AWG SOLID RED AND (1) #16 AWG SOLID BLACK FROM THE TRANSFER SWITCH TO ALARM WIRING BLOCK FOR REMOTE START.
  - ELECTRICAL CONTRACTOR TO PULL ALL ALARM LEADS TO EXISTING ALARM WIRING BLOCK. LEAVE A MINIMUM OF 24" PIGTAILS AT ALARM WIRING BLOCK AND TAG CONDUCTORS AS INDICATED. TERMINATIONS ON ALARM POINT WIRING BLOCK BY OTHERS. CONDUCTORS CAN BE RUN EXPOSED. THEY SHALL BE BUNDLED NEATLY USING TIES AND SUPPORTED AT 24" INTERVALS FOR NEAT INSTALLATION.

### C GENERATOR ALARM WIRING

MANUFACTURER: QUAZITE  
MODEL: PG2436BA36 (SPlice BOX)  
PG2436BA24 (PULL BOX)  
PG2436KK00 (COVER)  
INSIDE DIMENSIONS:  
24" x 36" x 36" (L x W x D) SPLICE BOX  
24" x 36" x 24" (L x W x D) PULL BOX  
POLYMER CONCRETE BOX WITH OPEN BOTTOM



### D UNDERGROUND UTILITY VAULT

CONSULTANT:

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608.644.1549 FAX  
www.edgeconsult.com

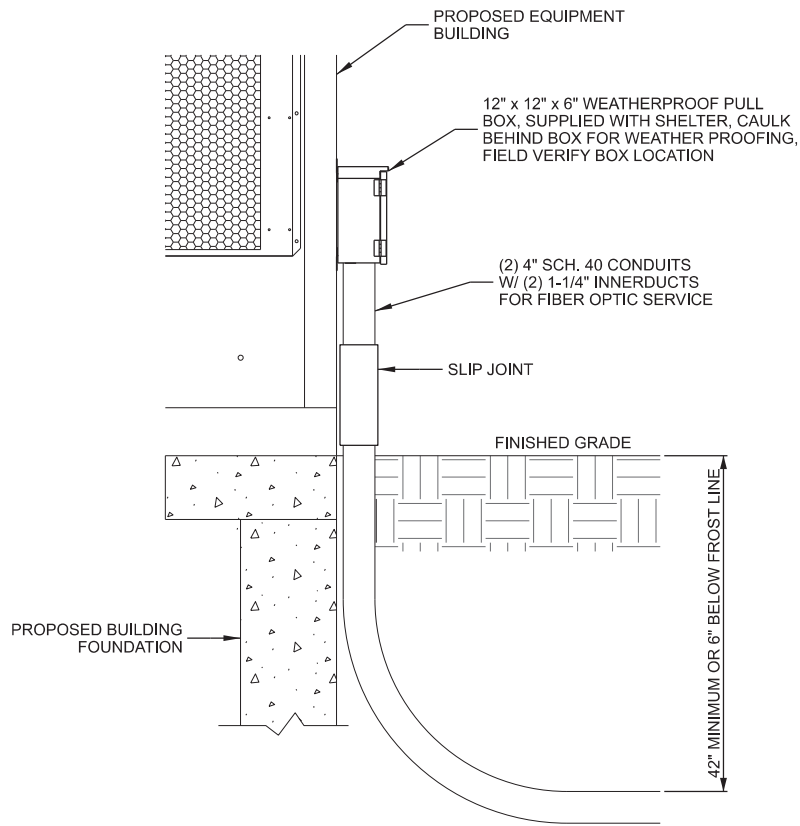
CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

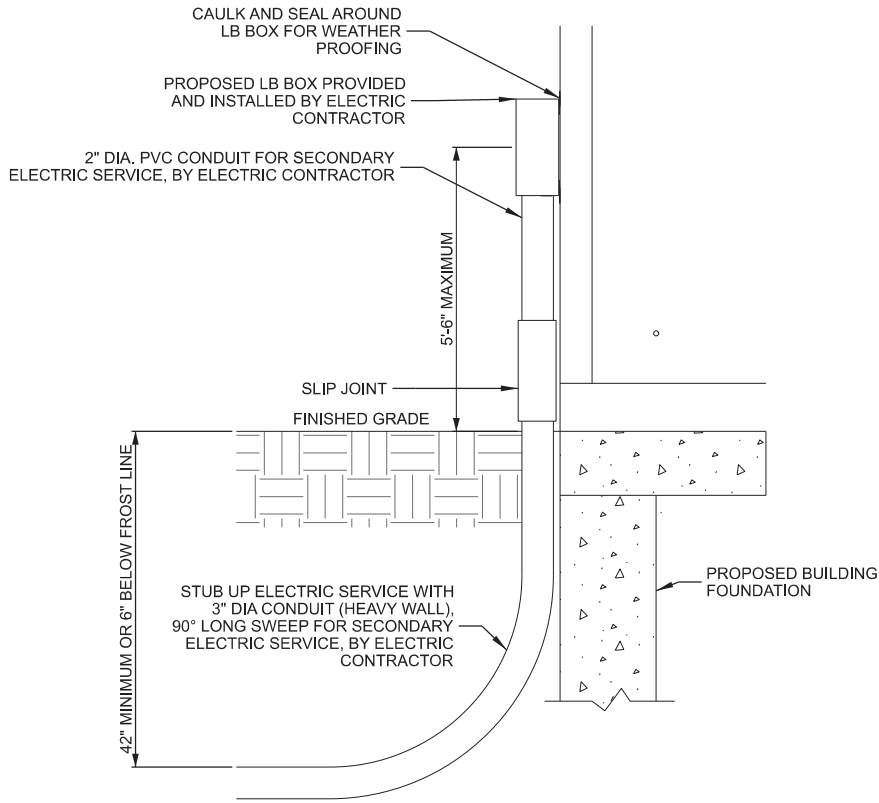
**ELECTRICAL DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

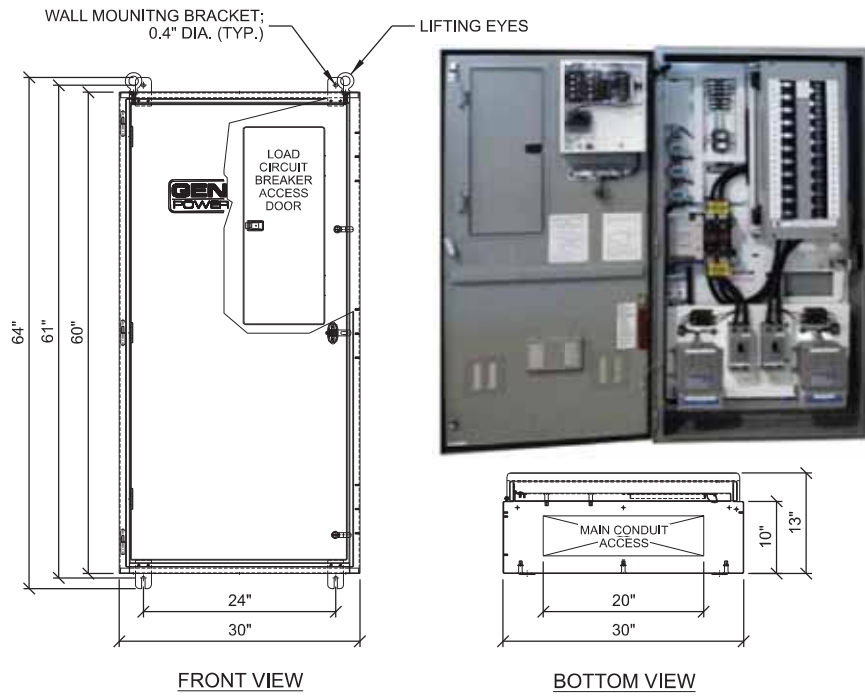
CHECKED BY:	PCM
PLOT DATE:	10/20/2023
PROJECT NUMBER:	32691
SET TYPE:	DRAFT
SHEET NUMBER:	VzW E-505



**A FIBER SERVICE ENTRANCE**



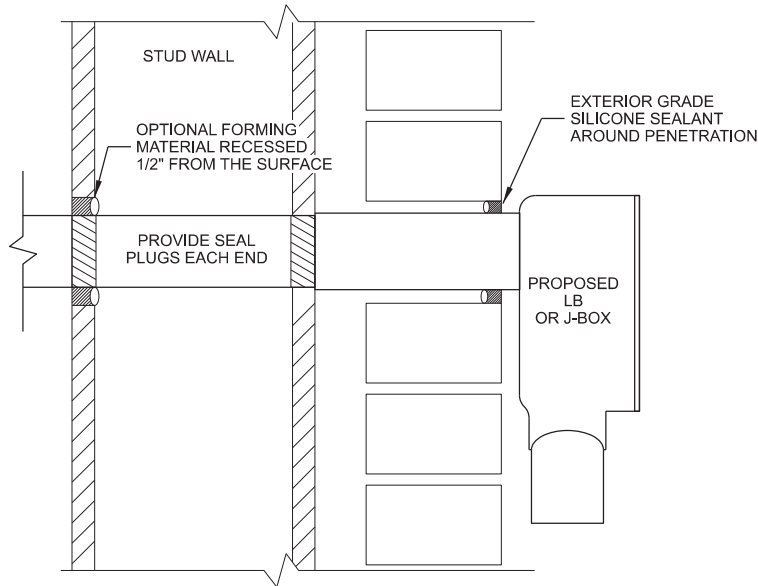
**B ELECTRIC SERVICE ENTRANCE**



ILC RATED AMPS	VOLTAGE	PHASE	ENCLOSURE HEIGHT	ENCLOSURE WIDTH	ENCLOSURE DEPTH	WEIGHT
200	120/240	1	60"	30"	10"	350 LBS
200	120/208	3	60"	30"	10"	350 LBS

**C INTEGRATED LOAD CENTER (ILC)**

NOTES:  
CONTRACTOR TO ENSURE WATER TIGHTNESS AT ALL EXTERIOR PENETRATIONS.



**D UTILITY CONDUIT PENETRATION DETAIL**

THIS SPACE INTENTIONALLY LEFT BLANK

CONSULTANT:  
**Edge**  
Consulting Engineers, Inc  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:  
**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**ELECTRICAL DETAILS**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:		
INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
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CV	09/27/23	REV. H
CV	10/20/23	REV. I
CHECKED BY:	PCM	
PLOT DATE:	10/20/2023	
PROJECT NUMBER:	32691	
SET TYPE:	DRAFT	
SHEET NUMBER:	VzW E-506	

verizon  
Radio Frequency Exposure  
FCC Compliance Assessment

☒ Pre-Activation ☐ Post-Activation

SITE SPECIFIC INFORMATION			
Site Name	Hwy 164 and K - D	Multi-Licensee Facility	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Street Address	W249N5889 Executive Drive	Is Verizon a Significant Contributor to Co-Locator Areas Requiring Mitigation?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> N/A
City, State, Zip	Sussex, WI 53089	Verizon's Max % MPE (Predictive - Occupational)	3177.59%
Verizon's Max % MPE (Measured - Occupational)	N/A	Assessment Date	11/28/2022
Structure Type	Water Tank	Assessment Purpose	MODIFICATION
Broadcast (AM/FM/TV) Co-Locators	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Total Report Revisions	0
Total Access Points	2	Report Revision Date	N/A
Original Report Date	11/28/2022		
Compliance Status	<input type="checkbox"/> COMPLIANT AS DESIGNED <input type="checkbox"/> COMPLIANT PER RF SAFETY PLAN SUBMISSION <input checked="" type="checkbox"/> MITIGATION IS REQUIRED		

VERIZON'S WORST-CASE RF EMISSIONS IN ACCESSIBLE AREAS AT THIS FACILITY	
<input type="checkbox"/>	BELOW the General Population MPE limit
<input type="checkbox"/>	ABOVE the General Population MPE limit and BELOW the Occupational MPE limit
<input type="checkbox"/>	ABOVE the Occupational MPE limit and BELOW 10x the Occupational MPE limit
<input checked="" type="checkbox"/>	ABOVE 10x the Occupational MPE limit

Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/ MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions

n Sec. 4 (B)

Additional Compliance Requirements(s):			
N/A			
Consultant Legal Name	Telnet Inc.	Phone/Fax	(301) 840 7110 ext. 61062 or 61608
Address	7630 Standish Place, Rockville, MD 20855		

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2. Existing Site Characteristics

a. Structure

Physical Description	Antennas are mounted on top of the water tank.
Single-Family Home	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Latitude (NAD 83)	43°07'09.4"N
Longitude (NAD 83)	88°14'37.8"W
Total Analyzed Elevations (Roof Levels)	#4 (Top of Water Tank, Adj. Roof 1, Adj. Roof 2, and Ground levels)

b. Accessibility

Did the property owner or agent of the property owner (e.g. a security guard) grant you access to the rooftop?	N/A
If not - were you required to be escorted by Verizon personnel in order to gain access?	N/A
Were you required to provide any proof of identity to gain access?	N/A
What specific documents were required in order to gain access?	N/A
All access points locked at time of assessment?	N/A
All access points alarmed at time of assessment?	N/A
Were there any broken locks or inoperable alarms on any of the access points to the rooftop?	N/A
Were there any access issues caused by either the property owner or agent of the property owner?	N/A
Additional Notes:	N/A

c. Existing Verizon Observations

Existing Observations						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/ MARKER
Access Point(s)	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions

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

Are Verizon signs posted on the front, back and sides of antenna arrays where possible?	N/A
Are Verizon signs visible from all areas of approach?	N/A
Are there any broken, damaged or illegible Verizon signs?	N/A
Are there any broken or damaged Verizon physical barriers?	N/A
Are there any Verizon indicative markers in need of repair or replacement?	N/A

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NOTE:

- RFE INFORMATION ON THIS SHEET PROVIDED BY VERIZON AND IS INCLUDED FOR CONVENIENCE ONLY. IF SIGNIFICANT CHANGES OR DISCREPANCIES ARE IDENTIFIED, CONTACT ENGINEER PRIOR TO INSTALLATION.

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
624 WATER STREET  
PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**RADIO FREQUENCY REPORT**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

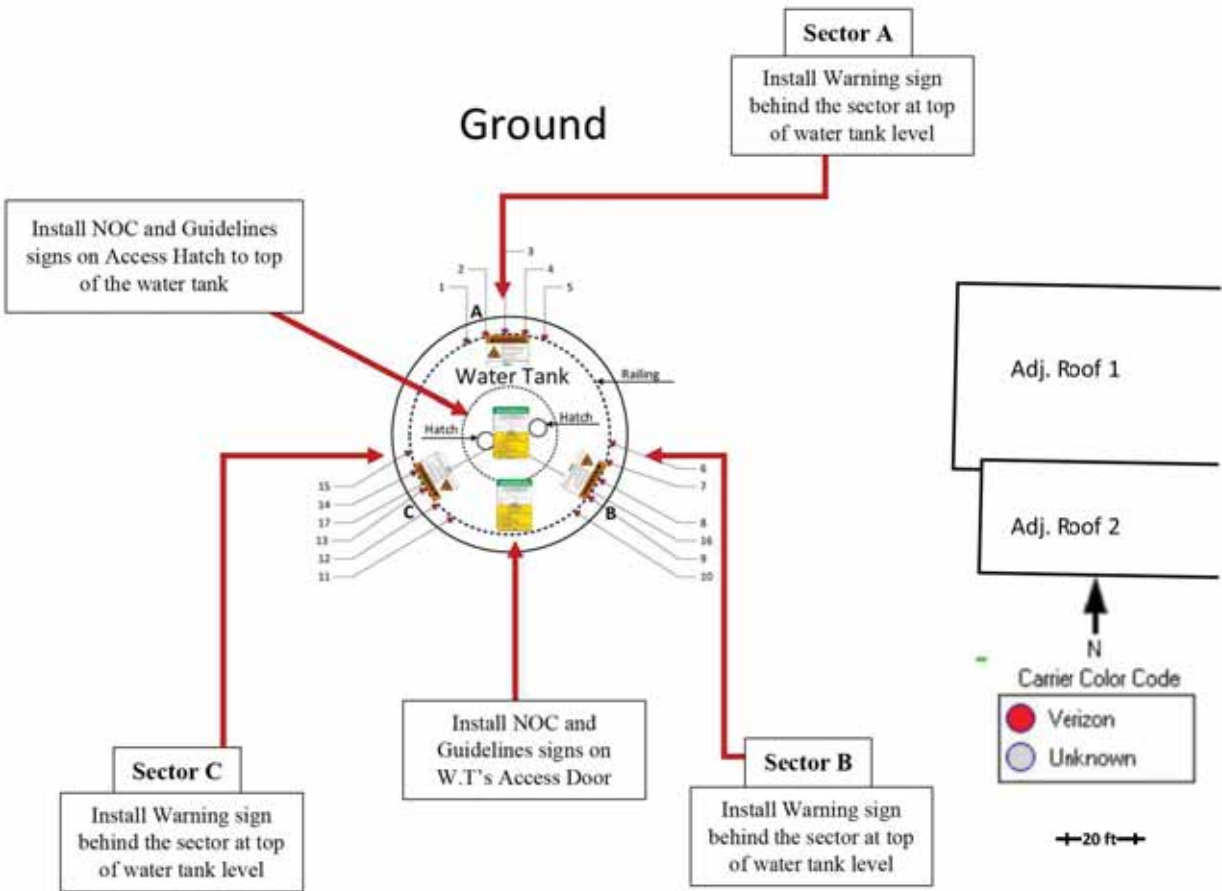
SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	VzW RF-001



b. Signage/Barrier Diagram



20

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NOTE:

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21

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Final Compliant Configuration						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions

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

c. Signage/Barrier Installation Detail

Mitigation/ Actions required						
	GUIDELINES	NOTICE	CAUTION	WARNING	NOC INFO	BARRIER/MARKER
Access Point(s)	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [2]	<input type="checkbox"/> dimensions
Alpha	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Beta	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
Gamma	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input type="checkbox"/> [#]	<input checked="" type="checkbox"/> [1]	<input type="checkbox"/> [#]	<input type="checkbox"/> dimensions
	ADD	REM	ADD	REM	ADD	REM
	ADD	REM	ADD	REM	ADD	REM
	ADD ONLY	ADD ONLY	ADD ONLY	ADD ONLY	ADD ONLY	ADD ONLY

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

SPECIAL MITIGATION INSTRUCTIONS	
Items to be Installed	Water Tank's Access Door: Install NOC and Guidelines signs Top of Water Tank's Access Hatch: Install NOC and Guidelines signs Sector A: Install Warning sign behind the sector at top of water tank level Sector B: Install Warning sign behind the sector at top of water tank level Sector C: Install Warning sign behind the sector at top of water tank level
Items to be Removed	N/A
Items to be Repaired/Replaced	N/A

CONSULTANT:

**Edge**  
Consulting Engineers, Inc.  
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PRAIRIE DU SAC, WI 53578  
608.644.1449 VOICE  
608.644.1549 FAX  
www.edgeconsult.com

CLIENT:

**verizon**  
CHICAGO SMSA LIMITED PARTNERSHIP  
d/b/a VERIZON WIRELESS  
1701 GOLF ROAD  
TOWER 2, SUITE 400  
ROLLING MEADOW, IL 60008

**RADIO FREQUENCY REPORT**  
HWY 164 & K (FUZE # 16805550)  
SUSSEX, WISCONSIN

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	VzW RF-002



Bordewieck, Maren - maren.bordewieck@verizonwireless.com - 10112022110653

### NOTICE TO CONTRACTOR - ENVIRONMENTAL CONDITIONS/RESTRICTIONS

Note: Verizon Wireless makes no representation or warranty as to the accuracy or completeness of the information below. Company is fully responsible for its own compliance with all applicable laws and regulations. To the extent that Company becomes aware of any additional environmental conditions, it agrees to immediately inform Verizon Wireless. The Company's response to this construction bid shall constitute the Company's acknowledgement and acceptance of the stated conditions and restrictions at the site.

### Project Information

Site Name	Hwy 164 and K - D
Site Number	617172556
Project Name	Hwy 164 and K
Project ID	16805550
Sub-Market Name	Illinois/Wisconsin
Street Address	W249N5889 Executive Drive
City	Sussex
State	WI
Zip Code	53089
County	Waukesha
Territory Environmental Compliance Reviewer	Bordewieck,Maren
Date environmental cleared by Territory	10/11/2022
Installation Details (Describe VZ proposed equipment installation, including fiber/power direction, length, and method (trenching/directional boring), ground disturbance, generator fuel type and location, and proposed building/structure disturbances/penetrations.)	Verizon Wireless proposes to collocate panel-type antennae upon an existing 118-foot elevated water tank and place the associated equipment near the base of the tank within a 16 by 20-foot lease area within a future multi-carrier equipment building (the subject site) within the western portion of a larger municipal parcel (the overall property). An emergency generator is proposed to be situated within a 4 by 11-foot area south of the future equipment building. A 20-foot wide access and utility easement is proposed to run generally east from the subject site via an existing bituminous asphalt driveway to the point of access and existing utility sources along Executive Drive. Additional 10-foot wide utility easements are proposed to run south then west (fiber) and east (power) toward existing sources. A coaxial cable easement is proposed to run east from the subject site toward the base of the water tank then up through the interior of the tank to the proposed antennae elevation.
Is ground disturbance proposed?	Yes
Is a generator proposed or generator plug ?	Yes
Generator Fuel Type?	Diesel
Generator Power Type?	AC Generator
Are building/structure disturbances or penetrations proposed?	Yes
Is the building/structure painted?	Yes
Is paint disturbance proposed?	Yes
Year building/structure constructed	1996

### Environmental Conditions

The following environmental conditions have been identified at the project site:

RECs Identified?	Yes
Describe RECs	A Near Surface Soil Study was conducted within the proposed lease area and easement areas. According to the analytical results for six (6) submitted soil samples, lead was detected in the submitted samples at levels above Reporting Limits but below the current Background Threshold Value established by the State of Wisconsin, as well as, the applicable Residual Contaminant Levels (RCLs) for lead.
BERs Identified?	Yes
BER Types	Wetlands or Sensitive Receptors  Other
Describe BERs	There is a storm water catch basin approximately 50 feet east-northeast of the proposed generator.

Applicable legal requirements or Verizon Wireless policies and procedures may require that these conditions be communicated to all parties involved in the construction activities at the project site. To the extent that the scope of the project work includes measures to address these conditions, details of the work to be performed shall be as specified in the project documents and/or the Authorization Letter.

### Environmental Services

Company is required to comply fully with all applicable environmental, industrial hygiene, and worker health and safety laws and regulations; Verizon Wireless directions and/or instructions contained in this Notice to Contractor. Company shall retain qualified, appropriately specialized (and/or licensed, as required) and adequately insured environmental firms for the completion of specialized work as applicable. Company shall evaluate whether a Health and Safety Plan (HASP) is warranted. Verizon Wireless shall have the final authority to approve the selection of such environmental firms performing services on its behalf. The construction bid package shall include qualifications of proposed firms with respect to the following required services:

Company shall ensure at all times that only appropriately trained qualified, and licensed workers perform the required environmental services.

### Site Restrictions

It is the responsibility of Company to adhere to the following restrictions in response to the above environmental conditions.

Excavation/Construction	Yes
Excavation/Construction Type	Soil Erosion and Sedimentation Controls / Best Management Practices: To prevent any negative impact to the sensitive receptors, sediment and erosion control measures, such as silt fences, straw wattles, and other storm-water best management practices, must be implemented prior to and maintained throughout construction.  Staging and Stockpiling Restrictions: Construction related staging and stockpiling of soils and equipment may not occur in the vicinity of the sensitive receptors or in a manner that will cause impacts
Describe Excavation/Construction	There is a storm water catch basin approximately 50 feet east-northeast of the proposed generator.  This site is designated diesel-sensitive due to the vicinity storm water catch basin. The Submarket has chosen a diesel enhanced enclosure to meet the diesel-sensitive designation.  A Near Surface Soil Study was conducted within the proposed lease area and easement areas. According to the analytical results for six (6) submitted soil samples, lead was detected in the submitted samples at levels above Reporting Limits but below the current Background Threshold Value established by the State of Wisconsin, as well as, the applicable Residual Contaminant Levels (RCLs) for lead.  Excavated soils should remain on-site.  As a precaution for worker protection, dust and erosion control measures must be implemented during excavation/soil handling.
Diesel/Gasoline Restriction (DR)	No
Diesel Portable Generator Restricted	No
Diesel Sensitive (DS)	Yes
Fueling Plan Required	No
NS1D399 Option Chosen	Outdoor Diesel within a Diesel Enhanced Enclosure (DEE)

**PROCEDURE: This signed original is to be returned to VZW Construction and uploaded to FUZE Site Project Management (SPM) Module along with the EES Close-Out Notification.**

Contractor's Signature	
Contractor's Printed Name	
Date	
Company Name	
Company Address	
Phone Number	

CONSULTANT:



CLIENT:



**NOTICE TO CONTRACTOR**  
**HWY 164 & K (FUZE # 16805550)**  
**SUSSEX, WISCONSIN**

SUBMITTAL:

INT.	DATE:	DESCRIPTION:
CV	10/06/22	REV. A
CV	12/05/22	REV. B
CV	02/27/23	REV. C
CV	05/08/23	REV. D
CV	07/18/23	REV. E
CV	08/18/23	REV. F
CV	09/18/23	REV. G
CV	09/27/23	REV. H
CV	10/20/23	REV. I

CHECKED BY	PCM
PLOT DATE	10/20/2023
PROJECT NUMBER	32691
SET TYPE	DRAFT
SHEET NUMBER	<b>VzW N-001</b>



**Via: E-Mail**

December 11, 2023

Gabe Gilbertson  
Community Development Director  
Village of Sussex  
N64W23760 Main Street  
Sussex, WI 53089

**Re: Impact Report Addendum to Plan of Operation & Conditional Use Permit Application  
Submittal/Verizon Wireless-Class 1 Collocation /Village of Sussex Water Tower/W249N5889  
Executive Drive, Sussex, WI 53089.**

**Parcel ID #: SUXV0278999005.**

Dear Director Gilbertson,

On behalf of our client Verizon Wireless (“Verizon”), please accept this **Impact Report** letter as an addendum to the previously submitted **Village of Plan of Operation Procedure List Form and Plan of Operation Application Form** with a conditional use request for a Class 1 Collocation upon the above referenced Village of Sussex water tower and property.

The proposed Verizon Wireless facilities will not have a detrimental impact to the Village’s use and operation of the water tower on the subject property, or to the use and operation of any neighboring or nearby properties or Village services to the surrounding area as follows:

1. **Traffic, Parking, and Overflow Parking.** This will be an unmanned equipment facility which will require no additional parking or facilities for employees other than those currently existing on the improved surfaces of the property. Once construction is completed, Verizon’s cell site technician will visit the site periodically, typically a couple of hours per month for the testing, monitoring, and maintenance of the equipment creating no discernible increase in traffic to the property or surrounding area from what currently exists.
2. **Noise.** The facility will generate very little noise and the sounds and volumes it does emit will be consistent with the current levels being generated from the building and facilities currently operating on the property. The antennas and tank mounted equipment do not emit any noise. The ground equipment will be housed inside a new equipment shelter which are serviced by two rear wall mounted HVAC facing State Highway 164. The three-ton AC condensers will operate at similar sound levels to the other typical HVAC equipment that would be found at the other nearby commercial buildings and adjoining residential homesite surrounding the property.

Besides the HVAC units, Verizon's emergency backup power generator will also emit noise when in operation. The backup generator unit will operate as needed during power outages and intermittently during routine testing cycles. Verizon Wireless will typically test run the unit twice per month for 15 to 30 minutes at a time. Generators utilized by Verizon Wireless at all its facilities contain sound attenuated enclosures to minimize the noise generated by the unit so that it will not unduly impact the surrounding area. A manufacturers sound data sheet is included with this report.

3. **Odor.** Verizon's operations and equipment will not generate any odors.
4. **Safety, Crime.** Verizon's equipment is designed to be tamper proof, and is secured and monitored 24 hours a day by the Verizon Network Operations Center to prevent any unauthorized access to the shelter, overheating of the equipment, or fire to the facility. The Village water tower is a locked and secured structure which will remain secured. The Verizon facilities and the enhanced E-911 services they provide will also assist in the protection of the public health, safety, and welfare of the neighboring properties and surrounding areas.
5. **Hours of Operation.** Verizon's equipment will operate continuously and support its wireless communication services to the surrounding areas 24 hours per day. However, this is an unmanned secured facility that doesn't have any public hours of operation that would impact the surrounding area.
6. **Health and Sanitation.** Verizon's unmanned equipment facility and its operations do not create any health or sanitation concerns for the property or surrounding area. The equipment will operate in accordance with all applicable ANSI/TIA 222-G, FCC, and FAA regulations and safety standards governing such facilities. The proposed facility and its operations create no trash, and do not require any sanitation facilities.
7. **Property Maintenance.** There will not be a substantial increase in property maintenance requirements created by the proposed facilities. Verizon's multiuser equipment shelter will feature a brick veneer and be constructed of low maintenance materials. Verizon's proposed landscaping design will mostly replace the existing trees and foliage to be removed from the property for the construction of the communications building and feature indigenous species to ensure they are harmonious to the property and the surrounding environment.

Should you have any additional information needs or questions regarding the application or this impact report, please contact me directly at (773) 919-5112, or by e-mail at [petes@terraltd.com](mailto:petes@terraltd.com).

Sincerely,

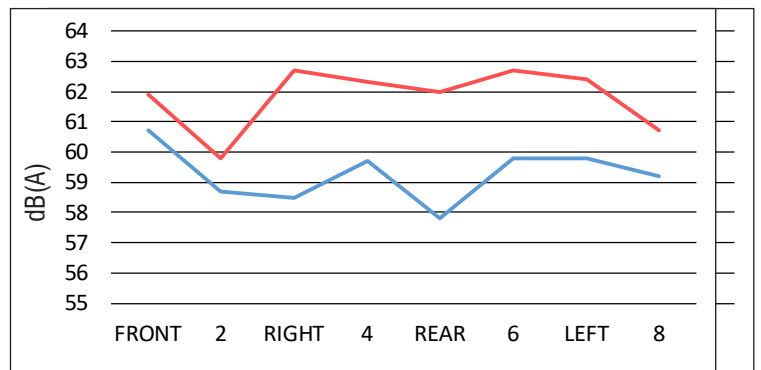
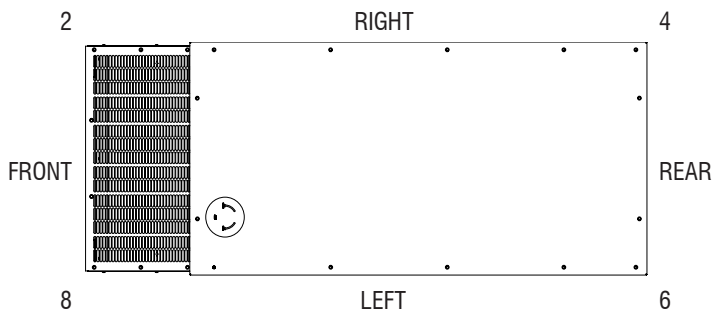
***Peter Schau***

Peter Schau  
Terra Consulting Group, LTD.,  
on behalf of Verizon Wireless

## LEVEL 2 SOUND ATTENUATED ENCLOSURE SD030 2.2L GENERAC

60Hz NO-LOAD, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									dB(A)
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	
1, FRONT	21	42	50	59	53	52	49	46	36	61
2	20	37	48	56	53	54	49	45	37	59
3, RIGHT	19	41	52	55	52	52	49	48	38	59
4	18	53	48	56	54	51	49	44	34	60
5, REAR	16	54	49	52	51	50	47	41	31	58
6	17	55	47	55	52	54	49	45	38	60
7, LEFT	21	54	50	54	53	53	50	46	38	60
8	20	46	47	52	55	55	50	44	38	59
AVERAGE	19	48	49	55	53	53	49	45	36	59

60Hz FULL-LOAD, dB(A)										DISTANCE: 7 METERS
MICROPHONE LOCATION	OCTAVE BAND CENTER FREQUENCY (Hz)									dB(A)
	31.5	63	125	250	500	1,000	2,000	4,000	8,000	
1, FRONT	23	54	52	60	54	52	49	46	36	62
2	21	48	49	55	55	54	49	46	38	60
3, RIGHT	20	50	59	59	54	52	50	50	37	63
4	20	59	49	58	55	52	48	46	35	62
5, REAR	21	60	51	55	54	51	47	41	31	62
6	20	60	49	58	53	53	52	46	38	63
7, LEFT	20	59	55	55	52	54	51	47	39	62
8	21	54	51	54	55	55	50	45	37	61
AVERAGE	21	56	52	57	54	53	49	46	36	62



- All positions at 23 feet (7 meters) from side faces of generator set.
- Test conducted on a 100 foot diameter asphalt surface.
- Sound pressure levels are subject to instrumentation, installation and testing conditions.
- Sound levels are  $\pm 2$  dB(A)



### **The Conditional Use Standards:**

17.0502 APPLICATION. Applications for conditional use permits shall be made to the Village on forms furnished by the Village and shall include Sections A, E, F and G. and may include any or all of Sections B, C, and D. as determined by the Administrator:

A. Names and addresses of the applicant, owner of the site, or other appropriate entities or persons implementing the project as required by the Administrator.

B. Description of the subject site by lot, block and recorded subdivision or by metes and bounds; address of the subject site; type of structure; proposed operation or use of the structure or site; number of employees; and the zoning district within which the subject site is located. For floodland conditional uses, such description shall also include information that is necessary for the Plan Commission to determine whether the proposed development will hamper flood flows, impair floodplain storage capacity, or cause danger to human or animal life. This additional information may include plans, certified by a registered professional engineer or land survey or, showing elevations or contours of the ground; fill or storage elevations; first floor elevations of structures; size, location and spatial arrangement of all existing and proposed structures on the site; location and elevation of streets, water supply, and sanitary facilities; photographs showing existing land uses and vegetation upstream and downstream; soil types; and other pertinent information.

C. A topographic map, drawn to a scale of not less than 200' to 1" showing the land in question, its legal description and location; location and use of existing buildings; sanitary systems and private water supplies on such land; the high water elevation of any navigable water within 100' of the land in question; and the proposed location and use of any buildings, sanitary systems and wells on such land and within 100' of such land in question.

D. Additional information as may be required by the Plan Commission or Administrator. **{This may come out during the Public Hearing.}**

E. A fee, as may be established and periodically modified by resolution of the Village Board, shall accompany each application. Such fee shall be paid by cash, check or money order to the Village. Costs incurred by the Village in obtaining legal, planning, engineering and other technical and professional advice in connection with the review of the conditional use and preparation of conditions to be imposed shall be charged to the applicant.

F. Where necessary to comply with certain Wisconsin Statutes, an application will be submitted at the appropriate time to the Department of Natural Resources. The site plan and plan of operation information sheet and plan of operation approval form furnished by the Village shall be submitted prior to scheduling before the Plan Commission.

17.0503 REVIEW AND APPROVAL. The Plan Commission shall review the site, existing and proposed structures, architectural plans, neighboring uses, parking areas, driveway locations, highway access, traffic generation and circulation, drainage, sewerage and water systems, and the proposed operation.

A. Upon receipt of the application, foregoing data and fees, the Plan Commission shall establish a date for a public hearing and shall public notice of the hearing once each week for two consecutive weeks in the official newspaper. Notice of the public hearing shall be given to the owners of all lands within 200' of any part of the land included in such conditional use by mail at least 10 days before such public hearing. A copy of the notice of public hearing along with pertinent information

relative to the specific nature of the matter (copy of application and map) shall be transmitted without delay to the Plan Commission. Compliance with this subparagraph shall not be a condition precedent to proper legal notice and no hearing or action taken thereon shall be deemed invalid or illegal because of any failure to mail the notices provided for in this subparagraph.

B. The procedure for public hearing before the Plan Commission shall be as follows: 1. Any person may appear in person, by agent, or attorney. 2. The Plan Commission shall afford the applicant and each interested person opportunity to present evidence to rebut or offer countervailing evidence. 3. The Plan Commission shall take minutes of the proceedings and shall mark and preserve all exhibits. The Plan Commission shall, when requested by an applicant or a petitioner objecting to the action, cause the proceedings to be taken by a stenographer or by a recording device provided that the applicant or the petitioner objecting making the request pays any and all costs for the stenographer or recording device and any copies of the proceedings. If requested by both the applicant and the petitioner the costs shall be split evenly unless otherwise agreed to by the parties.

C. Within 95 days of the completion of the hearing conducted by the Plan Commission, the Plan Commission shall render its written determination stating the reasons therefore. If additional time is necessary beyond the 95 days referred to above, such time may be extended with the consent of the petitioner. Failure of the Plan Commission to render a decision as set forth shall constitute approval of the permit. The factual basis of any decision shall be solely the evidence presented at the hearing. The Village Clerk shall mail a copy of the determination to the applicant.

D. Conditions such as landscaping, architectural design, type of construction, flood proofing, anchoring of structures, construction commencement and completion dates, sureties, lighting, fencing, planting screens, operational control, hours of operation, improved traffic circulation, deed restrictions, highway access restrictions, increased yards, or parking requirements may be required by the Plan Commission upon its finding that these are necessary to fulfill the purpose and intent of this ordinance.

E. Compliance with all other provisions of this ordinance, such as lot width and area, yards, height, parking, loading, traffic, and highway access shall be required of all conditional uses unless otherwise authorized to be modified by a conditional use. Variances shall only be granted as provided in Section 17.1200 of this ordinance.

F. Changes in use subsequent to the initial issuance of a conditional use permit shall result in a need to change the initial conditions and shall require an amendment to the conditional use permit. Enlargement of a conditional use shall not be considered an amendment. If any holder of a conditional use permit wishes to extend or alter the terms of such permit, the permit holder must apply for an amendment to the conditional use permit through the procedure of application for conditional use permits detailed herein. The process for amending a permit shall generally follow the procedures for granting a permit as set forth in Sections 17.0501, 17.0502 and 17.0503, and shall require the filing of an application and a hearing as provided above.

## **The Zoning District Standards Section 17.0424 I-1 Institutional District**

### **17.0424 I-1 INSTITUTIONAL DISTRICT**

The I-1 Institutional District is intended to eliminate the ambiguity of maintaining, in unrelated use districts, areas which are under public or public-related ownership and where the Use for public purpose is anticipated to be permanent.

A. Permitted Uses

1. Arts, Entertainment, and Recreation
  - (a) Public theater and related theater, dance, musical, and performing arts companies
  - (b) Public related sports teams and clubs
  - (c) Public Museums, art galleries, historical sites, zoos, botanical gardens, golf courses, skiing facilities, marinas, fitness and recreation centers, playfields, athletic fields, fairgrounds exhibition halls
2. Education, Health Services, and Social Services
  - (a) Elementary and secondary schools
  - (b) Colleges, technical colleges, universities, and professional schools
  - (c) General medical services
  - (d) Publicly operated nursery care facilities
  - (e) Publicly operated residential mental retardation facilities
  - (f) Publicly operated social services (child and youth, disability)
  - (g) Community food services
  - (h) Emergency and relief services
  - (i) Publicly operated vocational rehabilitation services
  - (j) Religious facilities
  - (k) Cemeteries and crematories
3. Information Services
  - (a) Libraries and archives
4. Public Administration and Government Offices
  - (a) Public utilities, offices of federal, state, and local governments
5. Transportation and Warehousing
  - (a) U.S. postal service
  - (b) Public buildings and garages
6. Utilities
  - (a) Utility substations, utility distribution, wells, pumping stations and towers provided that all principal structures and uses are not less than 50 feet from any residential district lot line. The Plan Commission may reduce this setback if sufficient screening is established or if the structures are underground.
  - (b) Municipal sewage disposal/treatment plants.
7. Parking Lots
  - (a) Parking Lots, excluding multi-level parking garages, without a principal structure to serve the general public or an institutional facility on an adjacent property.

B. Permitted Accessory Uses

1. Residential quarters for caretakers or clergy.
2. Garages for storage of vehicles used in conjunction with the operation of a permitted use.
3. Off-street parking and lots, excluding multi-level parking garages
4. Service buildings and facilities normally accessory to the permitted use.
5. Satellite dish antennas located on the roof of the principal structure or in the rear yard. Where the satellite dish is roof-mounted, a registered engineer shall certify that the structure is adequate to support the load.

6. Roof-mounted solar collectors provided that a registered engineer shall certify that the structure is adequate to support the load.
- C. Conditional Uses
1. Conditional uses as allowed in Section 17.0500 Conditional Uses.
  2. No Adult Oriented Establishment except as permitted in accordance with Conditional Uses Section 17.0508.
- D. Lot Area and Width
1. Lots shall be a minimum area of 12,000 square feet in area and shall not be less than 80 feet in width.
  2. Lot coverage by buildings, accessory structures, surface parking and loading areas, and driveways shall occupy no more than 75 percent of the lot area. Landscaped open space shall occupy not less than 25 percent of the lot area.
- E. Building Height and Area
1. No principal building or part of a principal building shall exceed 30 feet in height.
  2. Residential uses permitted in the I-1 district shall comply with the building area requirements of the Rs-3 Single-Family Residential District.
- F. Setback and Yards
1. There shall be a minimum building setback of 30 feet from the right-of-way of all streets.
  2. There shall be a side yard on each side of all buildings not less than 10 feet in width.
  3. There shall be a rear yard of not less than 25 feet
  4. The Plan Commission may reduce setbacks within this district outside of a Planned Development Overlay District if it finds that in granting the reduced setbacks:
    - (a) The Site is masterplanned and provides an efficient use of land,
    - (b) The health, welfare, and safety of the public is not jeopardized by the setback reduction.
    - (c) The setback change will encourage pedestrian interaction between buildings.
    - (d) The reduced setback serves to implement the Design Standards of the Village.
  5. No building or structure shall be located closer than 15 feet to an F-1 Floodway District, F-2 Floodplain Conservancy District, or LCO Lowland Conservancy Overlay District boundary. Where shoreland regulations apply no building or structures shall be located closer than as allowed by Village shoreland regulations.
- G. Erosion Control
1. See Chapter 14 of the Village Municipal Code.
- H. Development Design Standards
1. The Village has established clear land use and design principals, as documented in the Village Development Design



Guidelines, to guide future development planning decisions towards implementation of the Village's Smart Growth 2020 Comprehensive Plan. These guidelines are intended to serve as basic criteria during reviews, and are not to be construed as the only applicable design elements. All development proposals shall be evaluated against the adopted Village vision of maintaining a small town atmosphere within the Village, featuring a generous amount of greenspace in residential, commercial, and industrial developments.

- I. Plans and Specifications to be Submitted to Plan Commission.
  1. To encourage an institutional use environment that is compatible with the residential character of the Village, building permits for permitted uses in the Institutional District shall not be issued without review and approval of the Plan Commission. Said review and approval shall be concerned with general layout, building plans, ingress, egress, parking, loading and unloading, and landscape plans.

#### **17.5069 WIRELESS TELECOMMUNICATIONS MOBILE SERVICE FACILITIES**

- C. New Towers and Facilities. The applicant is not subject to the requirements of Section 17.0502 or 17.0503, and instead the siting and construction of a new mobile service support structure and facilities shall be subject to the following requirements:
  1. Application Process. The applicant shall submit a written application which shall include all of the following information:
    - a) The name and business address of, and the contact individual for, the applicant.
    - b) The location of the proposed tower.
    - c) The location of the mobile service facility.
    - d) A construction plan which describes the tower, equipment, network components, antennas, transmitters, receivers, base stations, power supplies, cabling, and related equipment to be placed on or around the new tower.
    - e) An explanation as to why the applicant chose the proposed location, and why the applicant did not choose collocation, including a sworn statement from the responsible party attesting that collocation within the applicant's service area would not result in the same mobile service functionality, coverage, and capacity; is technically infeasible; or is economically burdensome.
  2. Determination of Completeness within 10 Days of Submittal. The Village Administrator shall review the application and determine whether the application is complete. If the application includes all of the foregoing information, the application shall be found to be complete. The Village Administrator shall notify the applicant in writing within ten days of receiving the application if it is found not to be complete, and such notice shall specify in detail the required information that was incomplete. Applicants are allowed to resubmit their applications as often as necessary until it is complete.

3. Conditional Use Review Procedure. The wireless telecommunications mobile service facility shall be a conditional use, however it is not subject to Section 17.0502 or 16.0503 of this code, and instead shall be reviewed pursuant to the following procedures:
- a) Public Hearing. Within a reasonable time after an application and all required information has been filed, a public hearing shall be held by the Plan Commission pursuant to this chapter.
  - b) Fee. Any petition shall be accompanied by a fee as set from time-to-time by the Village Board to defray the cost of notification and holding of public hearing. Costs incurred by the Village in obtaining legal, planning, engineering and other technical and professional advice in connection with the review of the conditional use and preparation of the conditions to be improved shall be charged to the Petitioner. Such fee shall not exceed the limits established by Wisconsin Statutes Section 66.0404(4)(d).
  - c) Requirements.
    - 1) Conditional use status shall not be granted to communication towers unless the tower is located so that there is sufficient radius of clear land around the tower so that its collapse shall be completely contained on the property, subject to the following. Except as provided in Subsection (4), below, if an applicant provides the Village with engineering certification showing that the tower is designed to collapse within a smaller area than the radius equal to the height of the tower, the smaller area shall be used unless the Village has and provides to the applicant substantial evidence that the engineering certification is flawed.
    - 2) All facilities shall meet all local, State and federal codes.
    - 3) Aesthetic Requirements. All users of the Village right-of- way shall comply with the following aesthetic standards:
      - a. In areas where facilities are currently nonexistent or underground, undergrounding is required.
      - b. No new above ground structures, including co- locations on existing structures, shall be placed within 500 feet of historic structures or historic districts designated by the National Register of Historic Places in Wisconsin or listed on the State Register of Historic Places. The 500-foot separation is waived for installations that are completely concealed from view, or are not visible from locations where the historic structure can be observed.
      - c. Attachments to existing structures shall be designed to be flush with the existing

structure as much as can reasonably be done, shall be a color that matches the existing structure and shall be the smallest size possible to reasonably accommodate the intended purpose. If the structure to which the attachment is made changes color due to repainting, resurfacing or other means, the attachment shall be modified to match the new color.

- d. Any party objecting to the requirements of this Subsection (3) shall have an opportunity to demonstrate that the requirement constitutes an effective prohibition in violation of State or Federal law, in an appeal made pursuant to Subsection 4.
- 4) Any tower that is constructed on or adjacent to a parcel of land on or adjacent to which single-family residential use is permitted shall be setback from every lot line of a parcel for which single-family residential use is permitted by a distance that equals or exceeds the height of the tower.
- d) Determination. The Plan Commission shall make a decision on the application within a reasonable time after the public hearing, provided further that final action shall be taken within 90 days of receipt of a complete application unless the time extended by the Petitioner. When making said decision the Plan Commission shall take into consideration the following: i. When redeveloping a property the effect that a tower has on said redevelopment. ii. The impacts on surrounding properties. iii. The need for service in the area. iv. The ability to co-locate and why co-location was not chosen, if it was not v. the construction plan of the tower and its adherence to the design standards of the Village. Said decision shall be stated in writing and a copy made a permanent part of the Village records. If conditional use status is not granted, the reasons therefor will be included in such record.
- e) Changes or Additions. Subsequent change or addition to the approved plans or use shall first be submitted for approval to the Plan Commission and, if in the opinion of the Plan Commission, such change or addition constitutes a substantial alteration, a public hearing before the Plan Commission shall be required and notice thereof be given pursuant to this Chapter.
- f) Conditions. Conditions such as landscaping, architectural design, type of construction, flood proofing, anchoring of structures, construction commencement and completion dates, sureties, lighting, fencing, planting screens, operational control, hours of operation, improved traffic circulation, deed restrictions, highway access restrictions, increased yards, or parking requirements, among other issues as deemed

appropriate may be required by the Plan Commission upon its finding that these are necessary to fulfill the purpose and intent of this Chapter; subject to the limitations of Section 17.0509(C)(4), below.

4. Limitations upon Authority. The Village review and action in the matter shall be subject to the limitations imposed by Wisconsin Statutes Sections 66.0404(4) and 66.0414, as applicable. In the event the applicant believes the Village has exceeded its authority in this regard, the applicant shall notify the Plan Commission in writing and the Plan Commission reserves the right to reconsider the matter, to ensure that applicable laws are followed.

### **Site Plan Review Standards 17.1000**

17.1002 PRINCIPLES To implement and define criteria for the purposes set forth in Section 17.1001, the following principles are established to apply to all new structures and uses and to changes or additions to existing structures and uses.

A. No structure, or use shall be established that is counter to the intent of the Design Standards nor shall the same be permitted that would have a negative impact on the maintenance of safe and healthful conditions in the Village. Structures and uses in the B-4 Central Mixed Use District shall also adhere to the intent of the Downtown Development and Design Plan.

B. No structure shall be permitted:

1. The design or exterior appearance of which is of such unorthodox or abnormal character in relation to its surroundings as to be unsightly or offensive to generally accepted taste and community standards.

2. The design or exterior appearance of which is so identical to a building on lots within 500 feet of each other that it creates excessive monotony or 17.1000 drabness, in order to realize architectural uniqueness between lots.

3. Where any exposed facade is not constructed or faced with a finished material or color which is aesthetically compatible with the other facades and presents an attractive appearance to the public and to surrounding properties.

C. The facade of a manufacturing building which faces upon a street right-of-way shall be finished with an aesthetically pleasing material. A minimum of 50 percent of a facade facing a street shall be finished with brick or decorative masonry material. Such masonry facing shall extend for a distance of at least 10 feet along the sides of the structure. Manufacturing buildings on corner lots shall have the required masonry facade facing each street. Metal buildings may be constructed in any business, manufacturing, institutional, or park district, but only by a 3/4 affirmative vote of the Plan Commission.

D. Building Scale and Mass. The relative proportion of a building to its neighboring buildings, to pedestrians and observers, or to other existing buildings shall be maintained or enhanced when new buildings are built or when existing buildings are remodeled or altered.



E. Structures and uses shall make appropriate use of open spaces and the Plan Commission may require appropriate landscaping and planting screens. All landscaped areas shall provide a mix of climax trees, tall and medium deciduous trees, tall and medium coniferous trees, deciduous and coniferous shrubs, and grasses. The appropriate mix shall be determined by the Plan Commission.

F. No articles, goods, material, finished or unfinished product, incinerators, storage tanks, refuse containers, or like equipment shall be kept outdoors, exposed to public view, or exposed to view from adjacent buildings and property. Garbage and refuse containers shall be screened from the street and from neighboring facilities. The Plan Commission may permit the outdoor display of product or merchandise when it makes a finding that such display is essential to a business or industrial use.

G. Structures and uses shall be provided with adequate services as approved by the appropriate utility and serve to implement the recommendations of Utility and Stormwater Management Plans of the Village.

H. Buildings and uses shall provide adequate parking and loading areas. No loading dock or overhead door shall face upon a street right-of-way unless a determination is made by the Plan Commission to allow the same, as described herein.

1. The Plan Commission shall not allow the same unless the Plan Commission first finds either a or b: (a) That the loading dock or overhead door is set back at least 75 feet from the street right-of-way and adequate vehicle turnaround areas have been provided on the lot, such that no maneuvering of vehicles will take place within the street right-of-way in order to access the loading dock or overhead door. (b) That the building is on a lot within the M-1 Industrial District and the building has a previously approved loading dock facing the street.

2. If the Plan Commission finds (1) (a) or (1) (b), above, then the Plan Commission may allow the loading dock or overhead door to face the street right-of-way upon consideration of the following additional factors, without limitation by reason of enumeration: 17.1000 (a) Whether the loading dock or overhead door is set back sufficiently from the street right-of-way to adequately limit the adverse visual impact of the loading dock or overhead door; (b) Whether the number of loading docks or overhead doors that are proposed to face the street right-of-way, due to their number, would create an adverse visual impact; (c) Whether the natural terrain and other existing features of the lot may affect the visual impact of the loading dock or overhead door; and (d) Whether the loading dock or overhead door will be appropriately screened with landscape berms or other landscaping.

**Any other standards from Chapter 17 that may be relevant.**

**2024**  
**VILLAGE OF SUSSEX ORDER GRANTING A**  
**CONDITIONAL USE AND PRESCRIBING CONDITIONS**  
**FOR A NEW WIRELESS COMMUNICATION FACILITY FOR**  
**VERIZON WIRELESS IN THE I-1 INSTITUTIONAL**  
**DISTRICT IN THE VILLAGE OF SUSSEX**

WHEREAS, an application has been filed by Terra Consulting Group, agent of Verizon Wireless, on the subject property (hereinafter collectively “Petitioners”); and

WHEREAS, the Petitioner is requesting a conditional use permit be granted pursuant to the Zoning Ordinance for the Village of Sussex for the property at SUXV0278999005, W249N5889 Executive Dr, in the Village of Sussex, Wisconsin, all as described on **Exhibit A** attached hereto and incorporated herein (hereinafter “Subject Property”); and

WHEREAS, upon referral of the application by the Village Clerk, the Plan Commission for the Village of Sussex determined that the application met all requirements as set forth in Section 17.0502 and scheduled a public hearing thereon as soon as practical; and

WHEREAS, upon publication of the required “Notice of Public Hearing” and mailing of said “Notice of Public Hearing” to all parties-in-interest as required by Section 17.1401 of the Zoning Ordinance, the Plan Commission held a public hearing on December 19, 2023 and January 16, 2024 as required by Section 17.0505 of the Zoning Ordinance for the Village of Sussex; and

WHEREAS, the Plan Commission has followed the review procedures of Section 17.0503 by reviewing the site, existing and proposed structures, architectural plans, neighboring uses, parking areas, driveway locations, highway access traffic generation and circulation, drainage, sewerage and water systems, and the proposed operation; and

WHEREAS, the Subject Property is zoned I-1 Institutional District; and

WHEREAS, a new wireless communication facility at the subject property requires a conditional use permit under Section 17.0509(C); and

WHEREAS, the Plan Commission for the Village of Sussex finds that the petitioner’s proposed conditional use, if said use is carried out in strict compliance with the conditions described herein, is not adverse to the public health, safety, or welfare; it is not in conflict with the spirit or intent of the Village of Sussex Zoning Ordinance; and it is not otherwise detrimental to the community and particularly the surrounding neighborhood; and

WHEREAS, the Plan Commission for the Village of Sussex, following the public hearing and necessary study and investigation, having given the matter due consideration, and having based its determination on the effect of granting such conditional use permit on the health, general welfare, safety, and economic prosperity of the Village and specifically of the immediate neighborhood in which said use will be located, and having given due consideration to the municipal problems involved, as well as impact on the surrounding properties as to noise, dust, smoke, odor, or other similar factors, hereby determines that the use will not violate the spirit or intent of the Zoning Ordinance for the Village of Sussex, will not be contrary to the public health, safety or general welfare of the Village of Sussex, will not be a hazardous, harmful, noxious, offensive, or nuisance by reason of smoke, dust, odor, or other similar factors and will not for any

other reason cause a substantial adverse effect on the property values and general desirability of the neighborhood as long as the conditional use is operated pursuant to the following conditions and in strict compliance with the same.

THEREFORE, IT IS ORDERED AS FOLLOWS:

Commencing upon the date hereof, a conditional use permit for the Subject Property is hereby granted. The conditional use permit granted herein shall apply only to the specific use of the Subject Property by the Petitioners for a new wireless communication facility as set forth in Section 17.0506 Conditional Uses if approved as part of a Plan of Operation and site plan; and the conditional use permit shall continue in existence only so long as the conditional use is operated in compliance with this permit. This conditional use permit is subject to initial and continued compliance with each and every one of the following conditions, restrictions, and limitations.

- A. This conditional use is granted for the Petitioner for the above enumerated uses, incorporating the findings as set forth above and subject to the following conditions:
1. Presentation Compliance. The new wireless communication facility is approved herein on the Subject Property, and the use thereof, shall be used in substantial conformity with the presentation at the Public Hearings before the Plan Commission held on December 19, 2023 and January 16, 2024
  2. Subject Property. This conditional use permit issued to the Petitioners, shall be limited to the property described in **Exhibit A** attached hereto and incorporated herein and to the site plan presented at public hearing.
  3. Plans. The Petitioners are required and must have all plans current, approved by the Plan Commission for the Village of Sussex, and on file with the Village Clerk for the Village of Sussex in order for this CU to be in effect. The Petitioner shall be entitled to amend or change any plan contemplated herein subject to the specific language of the Conditional use and subject to the Plan Commission for the Village of Sussex approval and without a public hearing, if such amendments and/or change is not a substantial amendment or change in any plan contemplated herein as solely determined by the Plan Commission. If the Plan Commission for the Village of Sussex feels, in its sole discretion, that the amendment or change to any plan contemplated herein is substantial, the amendment or change will require a new permit and all Village procedures in place at the time must be followed.
    - A. Site Plan. The Petitioners shall comply with the site plan, which shall be attached hereto and incorporated herein as **Exhibit B**.
    - B. Plan of Operation. The Petitioners shall submit to and receive approval from the Village Plan Commission a specific plan of operation for the Subject Property, the same to be in substantial conformance with the preliminary plans on file and with the presentations at the Meetings. Once approved the plan of operation shall be attached hereto and incorporated herein as **Exhibit C**, and is subject to the following conditions:

- C. Traffic, Access, Loading, and Parking Plans. The Petitioner shall comply with the existing traffic parking, loading, and egress plan for the subject property on file with the Village Clerk.
  - D. Lighting Plan. The Petitioner shall maintain the proposed lighting plan for the Subject Property on file with the Village Clerk
  - E. Signage Plan. The Petitioner must submit a signage plan for the subject property on file with the Village Clerk.
  - F. Public Improvements. All public improvements shall be permitted through the Village of Sussex.
  - G. Sewer, Water, Stormwater and Erosion Control Plans. The Petitioner shall comply with the specific sewer, water, stormwater, and erosion control plans on file with the Village Clerk.
  - H. Fence, Landscaping, Berm, and Open Space Utilization Plan. The Petitioner shall comply with the specific Fence, Landscaping, Berm, and Open Space Utilization Plan for the Subject Property incorporated herein as **Exhibit D**.
  - I. Architectural and Building Plan. The Petitioner shall comply with the specific Architectural and Building Plan for the Subject Property incorporated herein as **Exhibit E**.
  - J. Outdoor Storage and Uses Plan. There shall be no outdoor storage at the subject property associated with the wireless communication facility other than the enclosed generator located within the fenced-in area as shown on the site plan incorporated herein as **Exhibit B**. If the Petitioner wishes to have additional outdoor storage they must seek approval from the Plan Commission without a new public hearing unless the Plan Commission determines a public hearing is necessary.
- 4. Adult-Oriented Materials. No adult-oriented materials or pornographic videotapes, magazines, or gift items will be sold or rented from the subject facility.
  - 5. Licenses. The Petitioner shall be required to obtain any and all required licenses and permits from the Village, County, State, and Federal Government. If any license or permit is issued, any and all conditions of the same are incorporated herein and made a part of this conditional use permit, including the following:
    - A. A license agreement to occupy the subject property reviewed and approved by the Village of Sussex.
  - 6. Laws. The Petitioner shall comply with all Federal, State, County, and local rules, codes, ordinances, and regulations in the construction, operation, and maintenance of the Subject Property.
  - 7. Building and Fire Inspection. The Petitioner is required to keep the Subject Property in compliance with all federal, State, and local laws, statutes, codes, ordinances,



policies, and guidelines as determined by the Building and Fire Inspectors of the Village of Sussex.

8. Aesthetics. The Petitioner is required to properly maintain the Subject Property at all times and in full compliance with the Village Property Maintenance Code, Section 9.07 of the Village of Sussex Code all to the satisfaction of the Plan Commission for the Village of Sussex.
9. Junk. No junk shall be accumulated or stored on the Subject Property. No burying or burning of junk is permitted on the Subject Property. No junk vehicles, trailers, or other pieces of equipment that are inoperable shall be stored on the Subject Property.
10. Temporary Use or Activity. No temporary use or special activity or event shall be permitted without prior approval of the Plan Commission of the Village of Sussex and the same must be in compliance with all ordinance, rules, and regulations of the Village of Sussex and all necessary permits must be obtained except for as allowed by Outdoor Establishment Permit under Chapter 4 or Auxiliary Use under Section 17.0710.
11. Fees and Expenses. The Petitioner, upon issuance of this conditional use permit, shall reimburse the Village of Sussex for all expenses incurred by the Village, including, but not limited to, expenses for the Village Administrator, Village Engineer, Village Attorney, and all other professionals and technical assistance realized by the Village in approving and granting this conditional use permit. The Village Clerk shall provide the Petitioner with copies of all itemized invoices.
12. Enforcement. Any attorney fees incurred by the Village of Sussex to enforce any of the conditions or requirements of this conditional use permit must be paid by the Petitioner.
13. Complaints. In the event the Petitioner receives any complaints with regard to the operation authorized by this conditional use, the Petitioner shall respond to such complaints in writing within a reasonable time not to exceed two weeks from the date of the complaint and shall provide a copy of the written response to the Sussex Village Administrator within the same period of time. If the complaint was made in writing, the copy provided to the Village Administrator shall include a copy of the complaint.
14. No Nuisance. The Village reserves the right to rescind its approval of this conditional use permit based upon the finding that the use is incompatible and a nuisance to surrounding uses, that the use is not in the public interest, or that the use adversely affects the use of adjacent lands, provided the Petitioner is given an opportunity to be heard on the matter and, if so rescinded the Petitioner and Subject Property shall thereupon be immediately subject to the Village of Sussex Zoning Ordinances , as applicable, regarding the use of the Subject Property as though no conditional use permit was granted.
15. Subject to Acceptance. Subject to the Owner approving in writing the issuance of the same and Petitioner acknowledging in writing that they have received a copy of this conditional approval, that they understand and accept the same, and that upon failure

to satisfy these conditions this approval is void, and the same is deemed to not have been approved, and the Petitioner will therefore need to re-commence the application process.

16. Review. The Plan Commission for the Village of Sussex reserves its right to review the operation and amend the conditional use permit as the Plan Commission for the Village of Sussex deems appropriate.
- B. Any use not specifically listed as permitted shall be considered to be prohibited except as may be otherwise specifically provided herein. In case of a question as to the classification of use, the question shall be submitted to the Plan Commission for the Village of Sussex for determination.
  - C. No use is hereby authorized unless the use is conducted in a lawful, orderly and peaceful manner. Nothing in this order shall be deemed to authorize any public or private nuisance or to constitute a waiver, exemption or exception to any law, ordinance, order or rule of either the Village of Sussex, the County of Waukesha, the State of Wisconsin, the United States of America or other duly constituted authority, except only to the extent that it authorizes the use of the Subject Property above described in any specific respects described herein. This order shall not be deemed to constitute a building permit, nor shall this order constitute any other license or permit required by Village ordinance or other law.
  - D. This conditional use hereby authorized shall be confined to the Subject Property described, without extension or expansion other than as noted herein, and shall not vary from the purposes herein mentioned unless expressly authorized in writing by the Plan Commission for the Village of Sussex as being in compliance with all pertinent ordinances.
  - E. Should the permitted conditional use be abandoned in any manner, or discontinued in use for twelve (12) months, or continued other than in strict conformity with the conditions of the original approval, or should the Petitioner be delinquent in payment of any monies due and owing to the municipality, or should a change in the character of the surrounding area or the use itself cause it to be no longer compatible with the surrounding area or for similar cause based upon consideration of public health, safety or welfare, the conditional use may be terminated by action of the Plan Commission for the Village of Sussex.
  - F. Any change, addition, modification, alteration and/or amendment of any aspect of this conditional use, including but not limited to a change in the use, premises, lands or owners, other than as specifically authorized herein, shall require a new permit and all Village procedures in place at the time must be followed.
  - G. Unless this conditional use permit expressly states otherwise, plans that are specifically required by this conditional use order may be amended upon the prior approval of the Plan Commission if the Plan Commission finds the plan amendment to be minor and consistent with the conditional use permit. Any change in any plan that the Plan Commission, in its sole discretion, finds to be substantial shall require a new permit, and all procedures in place at the time must be followed.
  - H. Should any paragraph or phrase of this conditional use permit be determined by a Court to be unlawful, illegal, or unconstitutional, said determination as to the particular phrase or

paragraph shall not void the rest of the conditional use and the remainder shall continue in full force and effect.

- I. This conditional use permit shall be effective for an initial term that ends five years from the date of January 1 of the year the conditional use is approved. During the final year of the 5 year term of the CU the Village Administrator or designee shall examine the record to determine if concerns about the operation have been raised in writing by the public, a governmental body or official, or anyone else, and shall also review the site and the adjoining area for compliance with the conditions of the CU. If based upon that review the use of the property is compatible with the surrounding areas and the Petitioner is in substantial compliance with all terms of this conditional use agreement, then, in that event, the Conditional Use can be automatically renewed for another 5 year term. If based upon that review the Village Administrator finds concerns about compliance with the conditions of the Conditional Use, the Petitioner shall be brought back before the Plan Commission for consideration of the renewal. The Petitioner shall have the responsibility to apply for the renewal by January 30<sup>th</sup> of the final year of the term of the CU. Failure of Petitioner to apply for the renewal as provided herein shall be deemed a violation of the conditions of the conditional use and may serve as a basis for termination of the conditional use permit. The Plan Commission for the Village of Sussex may add additional conditions at any time.
  1. Where the changing character of the surrounding area causes the original conditional use or subsequent approved amendments thereto to no longer be compatible with the surrounding area, or for similar cause, based upon consideration for the public welfare, the conditional use order and any subsequent approved amendments or changes may be terminated by action of the Plan Commission of the Village of Sussex. Such use shall thereafter be classified as a legal nonconforming use as it was permitted to exist on the day it was terminated.
  2. Where this permitted conditional use does not continue in conformity with the conditions of the original approval or subsequent approved amendments or changes, the conditional use grant and any subsequent approved amendments thereto may be amended or terminated by action of the Plan Commission for the Village of Sussex. The Plan Commission for the Village of Sussex may require complete termination of such use.
  3. This conditional use may be reviewed annually. Additionally, this conditional use may be reviewed by the Plan Commission for the Village of Sussex at any time upon complaint or upon Plan Commission initiative.
- J. Upon acceptance by Petitioner of this conditional use permit, all prior conditional use permits granted to the Subject Property are hereby revoked and terminated.
- K. If any aspect of this conditional use permit or any aspect of any plan contemplated and approved under this conditional use is in conflict with any other aspect of the conditional use or any aspect of any plan of the conditional use, the more restrictive provision shall be controlling as determined by the Plan Commission for the Village of Sussex.
- L. If any paragraph or phrase of this conditional use order is declared by a Court of competent jurisdiction to be invalid, unlawful, or unenforceable, such decision shall apply only to the specific paragraph or phrase thereof directly specified in the decision and shall not affect the

validity of any other provisions, sections, or portions thereof of this order. The remainder of the order shall remain in full force and effect.

Let copies of this order be filed in the permanent records of the Plan Commission for the Village of Sussex, and let copies be sent to the proper Village authorities and the Petitioner.

Approved this \_\_\_\_\_ day of \_\_\_\_\_, 2024 BY THE PLAN COMMISSION FOR THE VILLAGE OF SUSSEX

\_\_\_\_\_  
Anthony LeDonne  
Village President

\_\_\_\_\_  
Jennifer Moore  
Village Clerk

PETITIONER ACCEPTANCE

I hereby accept the terms of this Conditional Use in its entirety.

Dated this \_\_\_\_\_ day of \_\_\_\_\_, 2024

\_\_\_\_\_  
Agent

This conditional use was drafted by Jeremy Smith, Village Administrator off of a model by Attorney John P. Macy ARENZ, MOLTER, MACY & RIFFLE, S.C., Village Attorneys for the Village of Sussex.



EXHIBIT A

LOT 1 CERT SURV 7815 VOL 67/155 1.874 AC PT NW1/4 SEC 34 & SW1/4 SEC 27 T8N  
R19E R2156/1018

## EXHIBIT B

### Site Plan

## EXHIBIT C

### Plan of Operation

## EXHIBIT D

### Landscape Plan



## EXHIBIT E

Architectural and building plans