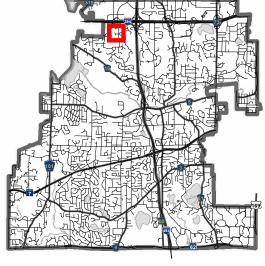


Location Map

Project: Verizon Small Cell Wireless Location: Linner Road and Tammer Lane





SITE LOCATION SURVEY FOR: DESIGN 1 SITE LOCATION: Linner Rd. and Tammer Ln. Minnetonka, MN SITE NAME: MIN BLAISE SC4 TAMMER LN.

Gutt

Bituminous

Driveway

SCALE (IN FEET)

INNER

Drainage and utility

Southeasterly

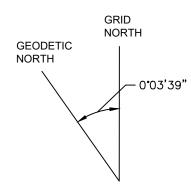
corner of Lot 6

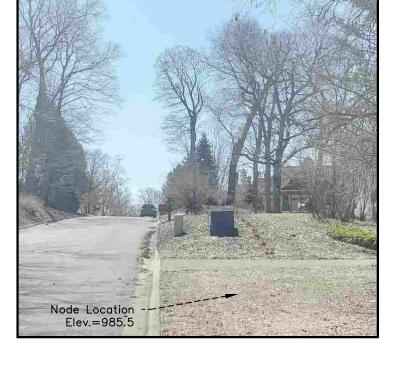
easement per HART ADDITION

Node Location -----

Ground Elevation=985.5 NAVD88 Latitude=N44° 57′ 59.08″ NAD83

Longitude=W93° 28' 09.50" NAD83





LEGEND

MAILBOX
TREE DECIDUOUS
CATCH BASIN
SANITARY MANHOLE
WATERMAIN
SANITARY SEWER
RIGHT OF WAY LINE
LOT LINE
EASEMENT LINE

SURVEYOR NOTE:

- 1.) The orientation of the survey is based on the Hennepin County, MN Coordinate System, NAD83, 2011 Adj.
- 2.) No boundary work was performed in preparation of the exhibit. The right of way line depicted hereon is based on Hennepin County Resurvey coordinates and the plat HART ADDITION.
- 3.) Existing Utilities, services and underground structures shown hereon were located either physically, from existing records made available to us or markings from GOPHER STATE ONE CALL Locate Request Ticket No. 200993466, dated April 8, 2020. Verification and location of all utilities should be obtained prior to any design, planning and excavation.
- 4.) The field work for this survey was performed on April 14, 2020.

DATE: 2/19/2021

SCALE: AS SHOWN

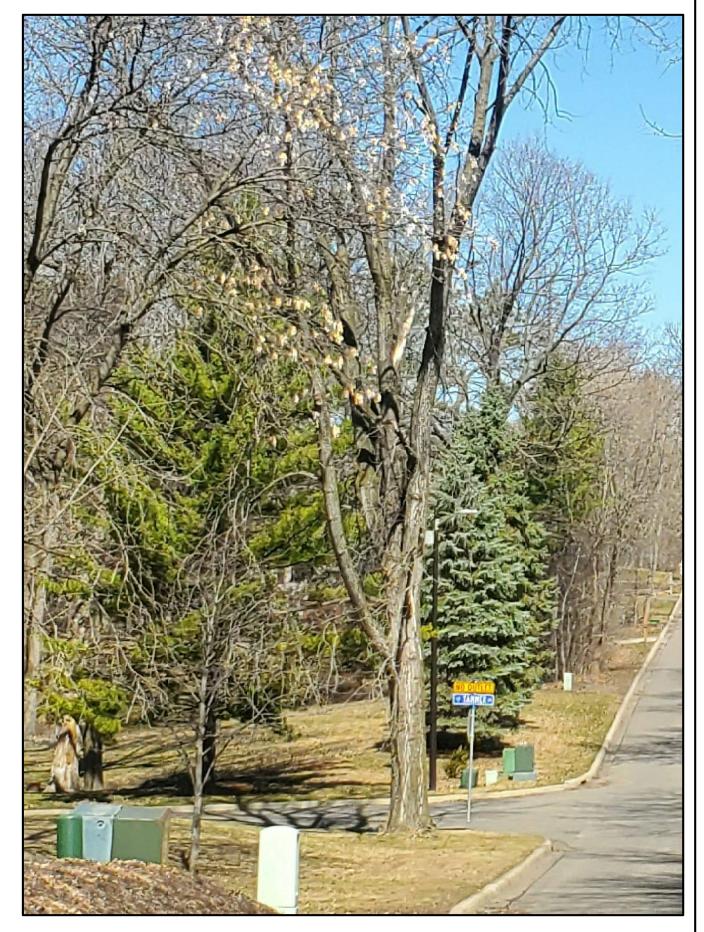
DRAWN BY: JMB

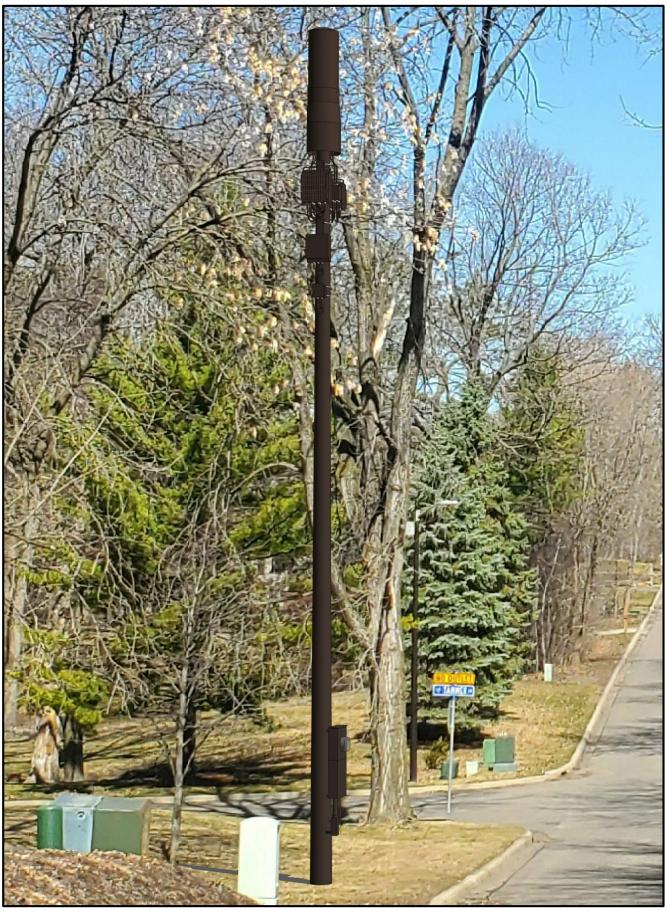
CHECKED BY: BTB

FILE NUMBER: 2020-10495









NOT FOR CONSTRUCTION



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verizon/

10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438

PROJECT 20181794770 LOC. CODE: 492964

MIN BLAISE SC

SHEET CONTENTS: PHOTO SIMULATION

DRAWN BY:	MJS
DATE:	01-26-21
CHECKED BY:	TAB
v.2	01-28-21

PROPOSED IMAGE
SCALE: N/A

GENERAL SHEET INDEX					
SHEET	SHEET DESCRIPTION				
TITLE SHEET	PROJECT INFORMATION, MAPS, DIRECTIONS, & SHEET INDEX				
OVERALL	OVERALL SITE LOCATION MAP				
SHEET 1	ELEVATION, ANTENNA & EQUIPMENT KEY				
SHEET 2	MOUNTING DETAILS & PLANS				
SHEET 3	EQUIPMENT DETAILS				
SHEET 4 / 5	FIBER & POWER DETAILS, GROUNDING PLAN				
SHEET 6	GENERAL NOTES				
SC 3 - SC 4 & SURVEY	SITE SPECIFIC PLAN, UTILITY PLAN, & PHOTOS				

CONTACT: JEN SCHUMANN

EMAIL: jschumann@wayzata.org

530 NORTH 3RD ST, SUITE 230 MINNEAPOLIS, MN 55401

CONTACT: JOSHUA HERZOG

PHONE: 952.404.5371

STRUCTURAL ENGINEER:

HERZOG ENGINEERING

PHONE: 651-844-1234

299 WAYZATA BLVD W, WAYZATA, MN 55391

MINNEAPOLIS, MN 55403

CONTACT: DAN HAMANN



10. Within these plans and specifications, "Owner" implies VERIZON WIRELESS.

11. The work is the responsibility of the general contractor unless noted otherwise.

intended to include review of the adequacy of the contractor's safety measures.

contractor's responsibility to determine the division of work among sub-contractors.

9. Safety measures: The contractor shall be solely and completely responsible for the conditions of the job site, including safety of the

12. The terms "contractor" and "g.c." refer to the owner's general contractor and the general contractor's sub-contractors. It is the general

13. The general contractor is responsible in obtaining necessary public and private underground utility locate services prior to start of

persons and property and for independent engineering reviews of these conditions. The Architect's or Engineers' job site review is not

8. Details shall be considered typical at similar conditions.

excavating / construction.

MIN BLAISE

SC 4

ADDITIONAL APPROVALS

NAME

JOB TITLE



10801 Bush Lake Rd Bloomington, MN 55438 952.946.4694 voice



9973 VALLEY VIEW RD. (952) 903-9299 WWW.DESIGN1EP.COM

DATE:

DATE

PLOT DATE

SET TYPE

SHEET TITLE

SHEET NUMBER

04-08-20

01-27-21

TITLE SHEET

CONSTRUCTION / BID

TITLE



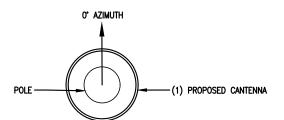
		PROJECT DESCRIPTION									
	F	PROJECT DESCRIPTION				HERZ	n c				
PROJECT NAME	SITE ADDRESS	COORDINATES	PROJECT NUMBER	LOCATION CODE	SHEET INDEX	WORK IT	EM S	SUPPLIED BY	INSTALLED BY	STALLED BY ENGINEER	
MIN BLAISE SC 3	15510 HOLDRIDGE DR	N44° 57' 49.01" (NAD83) W93° 28' 35.94" (NAD83)	20181794769	492963	SC 3, SURVEY	PROPOSED POLE		VERIZON	CONTRACTOR	530 North 3rd Stree Minneapolis, MN	,
MIN BLAISE SC 4	1818 LINNER RD	N44° 57' 59.08" (NAD83) W93° 28' 09.50" (NAD83)	20181794770	492964	SC 4, SURVEY	VERIZON OWNED EQUIPMENT		VERIZON	CONTRACTOR	(612) 844 - 1	
		W93 28 09.30 (NAD63)				CABLING		CONTRACTOR	CONTRACTOR	I hereby certify that this plan, report was prepared by me of	
						RAYCAP BOX		VERIZON	CONTRACTOR	supervision and that I am a d Professional Engineer under	duly Licensed
						HAND HOLE		FIBER PROVIDER	FIBER PROVIDER	State of Minnesota.	
						FIBER FROM FIBER HAND HOLE TO E	EQUIPMENT	CONTRACTOR	CONTRACTOR	Print Name:Joshua Herz	\
						ELECTRICAL RUN		CONTRACTOR	CONTARCTOR	Signature	fund
						ELECTRICAL RISER		SEE UTILITY PLAN	SEE UTILITY PLAN	Date <u>01/27/2021</u> Licen:	nse # <u>42392</u>
						ELECTRICAL HAND HOLE		CONTRACTOR	CONTRACTOR		
						ELECTRICAL METER		CONTRACTOR	CONTRACTOR	STRUCTURAL #: 201237	
							POLE INFORI	MATION	•	CHECKED BY:	TAB
						EXISTING POLE TYPE: N/A EXISTING POLE FINISH: N/A	NEW POLE MATERIAL: ALUM		E: SW 6006 (BLACK BEAN)	MIN BLA	
[DIRECTORY			NOTE	S	<u> </u>	VERIZON DE	EPARTMENTAL	. APPROVALS	SUBMITTAL: INITIAL: DATE: DESC	RIPTION:
ARCHITECT:	VERIZON PROJECT MANAGER:	1. In the event that	Special Inspections are n	ot performed in complianc	e with the contract terms,	bid specifications and/or specified form,	JOB TITLE	NAME	DATE	SWS 06-26-20 REV. A NPR 07-20-20 REV. A	
DESIGN 1 ARCHITECTS LLC 9973 VALLEY VIEW ROAD	CONTACT: KATIE POSER PHONE: 612.968.9077				·	corrective actions related to the same.	RF ENGINEER	CRISTOFER RUBIO	RAMIREZ 7/28/2020	NPR 08-03-20 REV. 0	
PHONE: 952.903.9299	VERIZON IMPLEMENTATION MANAGER.		des, standards and regulations that have	RE P.O.C	CONNOR OKA	ANE 7/24/2020	NPR 01-27-21 REV. 1	1			
ASSET OWNER: VERIZON WIRELESS	CONTACT: PETE BLUTH PHONE: 952.380.7496	4. Requirements an	Requirements and regulations pertaining to R.F. safety codes and practices must be incorporated in not be listed individually and separately in either the drawings or the specifications.			ated in the work even though they may	CONSTRUCTION ENGINEER	JOHN HAUG		STRUCTURAL ANALYSIS:	
10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438	EMAIL: peter.bluth@verizonwireless.com VERIZON CONSTRUCTION MANAGER:	Compare field co	nditions with architectural	and engineering drawing	s. Any discrepancies sha	all be directed to the Architect for		MIKE MAUKS	TAD 7/21/2020	DATE: DESCRIPTION:	
KATIE POSER 612.968.9077 POWER PROVIDER:	CONTACT: JOHN HAUGEN PHONE: 612.290.9707			truction. Submit necessar nay be used without the p		abrication for approval by the Architect. r the architect.					
XCEL ENERGY 1518 CHESTNUT AVE	EMAIL: cameron.conrad@verizonwireless.co		6. Do not scale drawings!							RFDS:	
1518 CHESTNUT AVE	ROW CONTACT:	/. Unless otherwise	snown or noted, typical of	letails shall be used where	e applicable.					DATE: 04.00.00	



	PROPOSED ANTENNA KEY												
	NODE	QTY	MANUFACTURER	ANTENNA MODEL	AZIMUTH	antenna Height	ANTENNA WIDTH	ANTENNA WEIGHT		ANTENNA CENTER 1	ANTENNA CENTER 2	MECH Downtilt	STATUS
- 1-	SC 3 SC 4	- <u>1</u>	JMA JMA	CX160MI236-1C CX160MI236-1C	<u>o</u>	24.1" 24.1"		15.0 LBS 15.0 LBS		32.5' 32.5'	 	 <u> </u>	PROPOSED PROPOSED
ŀ											 	 	
ŀ					 						 	 	
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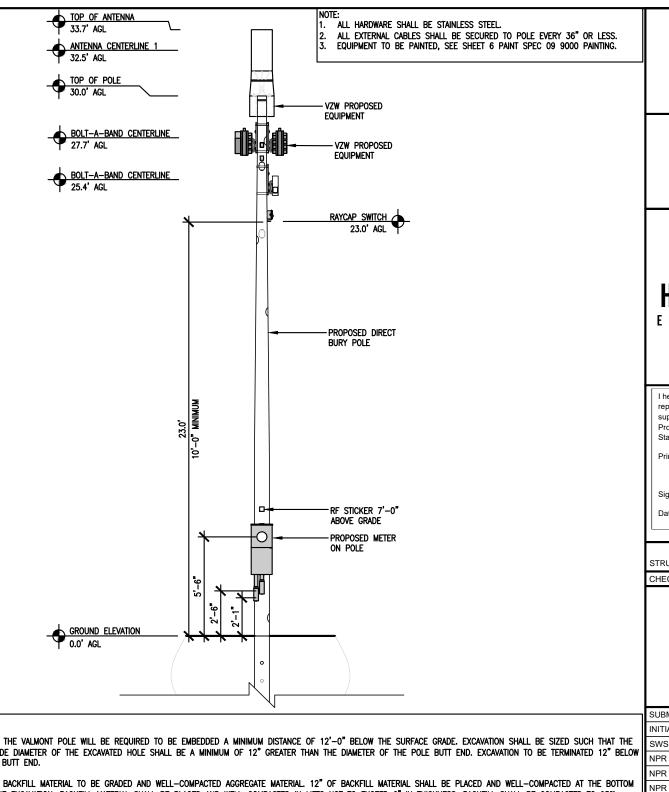
PROPOSED EQUIPMENT KEY							
	FROFUS	ED EQUIFMENT KET					
QTY. (PER SITE)	MANUFACTURER	MODEL	STATUS				
1	RAYCAP	RSCAC-1333-PS-240	PROPOSED				
1	ERICSSON	RRU-8843	PROPOSED				
1	ERICSSON	RRU-4449	PROPOSED				
2	ERICSSON	PSU-6302	PROPOSED				
-	L -]		-				
L -		-					











THE VALMONT POLE WILL BE REQUIRED TO BE EMBEDDED A MINIMUM DISTANCE OF 12'-0" BELOW THE SURFACE GRADE. EXCAVATION SHALL BE SIZED SUCH THAT THE OUTSIDE DIAMETER OF THE EXCAVATED HOLE SHALL BE A MINIMUM OF 12" GREATER THAN THE DIAMETER OF THE POLE BUTT END. EXCAVATION TO BE TERMINATED 12" BELOW

OF THE EXCAVATION. BACKFILL MATERIAL SHALL BE PLACED AND WELL-COMPACTED IN LIFTS NOT TO EXCEED 6" IN THICKNESS. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR, BACKFILL SHALL BE WELL BANKED AND TAMPED AROUND THE POLE TO A HEIGHT OF 6" ABOVE GRADE.

PRESUMPTIVE SOIL CONDITIONS HAVE BEEN ASSUMED AS SITE SOIL CONDITIONS OR GEOTECHNICAL REPORT HAVE NOT BEEN PROVIDED FOR REVIEW AND ANALYSIS. OUR DESIGN HAS ASSUMED THE EXISTING SOILS AT THE SITE CONFORM TO 2015 MN BUILDING CODE - TABLE 1806.2, CLASS OF MATERIALS 5.) CLAY, SANDY CLAY, SILTY CLAY

CLAYEY SILT SILT AND SANDY SILT (CL, ML, MH, AND CH) WITH THE FOLLOWING PRESUMED LOAD BEARING VALUES: VERTICAL FOUNDATION PRESSURE = 1,500 PSF

LATERAL BEARING PRESSURE = 100 PSF/FT BELOW NATURAL GRADE

NOTE:

MINIMUM TOP 4" OF BACKFILL AROUND POLES SHALL BE TOPSOIL AND ALL DISTURBED AREAS MUST BE RESTORED WITH SEED OR SOD (SEE SHEET 6, SITE

IF BETTER SOILS ARE PRESENT AT THE SITE, THE CURRENT DESIGN IS SUFFICIENT. HOWEVER, IF WORSE SOILS ARE PRESENT, IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY HERZOG ENGINEERING, LLC (612-844-1234) AS A REDISIGN MAY BE NECESSARY.



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ENGINEERING LLC

530 North 3rd Street, Suite 230 Minneapolis, MN 55401 (612) 844 - 1234

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Joshua Herzog

Date 01/27/2021 License # 42392

STRUCTURAL #: 201237

TAB CHECKED BY:

MIN BLAISE

SC04

SUBMIT	SUBMITTAL:							
INITIAL:	DATE:	DESCRIPTION:						
SWS	06-26-20	REV. A						
NPR	07-20-20	REV. A.1						
NPR	08-03-20	REV. 0						
NPR	01-27-21	REV. 1						
STRUCTURAL ANALYSIS:								

DESCRIPTION:

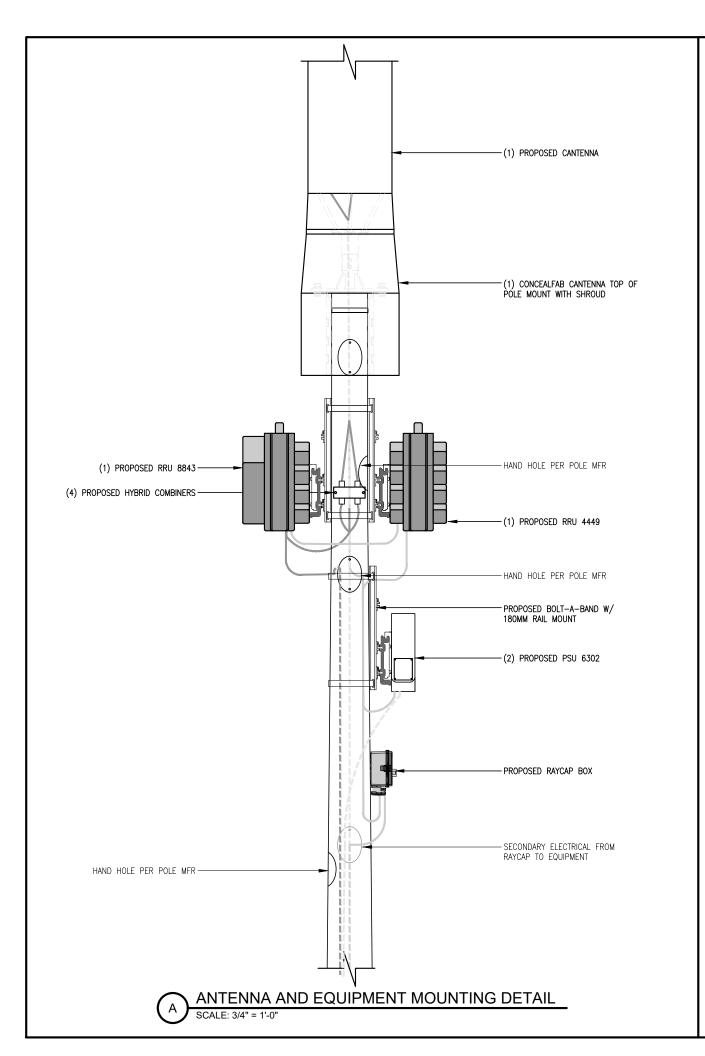
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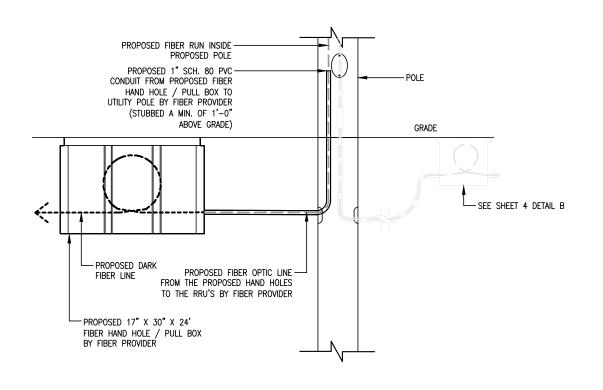
DATE:

DATE: 04-08-20

PLOT DATE 01-27-21 SET TYPE CONSTRUCTION / BID ELEVATION &

SHEET TITLE ANTENNA PLAN SHEET 1 SHEET NUMBER





FIBER HAND HOLE DETAIL



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пскио

ENGINEERING LLC 530 North 3rd Street, Suite 230

Minneapolis, MN 55401 (612) 844 - 1234

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Joshua Herzog

Signature ###

Date <u>01/27/2021</u> License # <u>42392</u>

STRUCTURAL #: 201237

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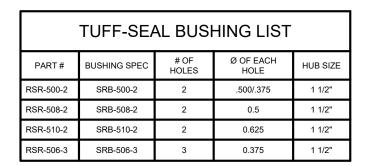
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NPR	07	7-20-20	REV. A.1			
NPR	30	3-03-20	REV. 0			
NPR	01	1-27-21	REV. 1			
STRUCT	UR	RAL ANAL	YSIS:			
DATE:		DESCRI	IPTION:			
RFDS:						
DATE:		04-08-20				
PLOT DATE			01-27-21			
SET TY	/PE	=	CONSTRUCTION / BID			
SHEET	TI	TLE	MOUNTING DETAIL & PLANS			

SHEET 2

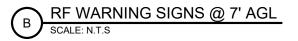
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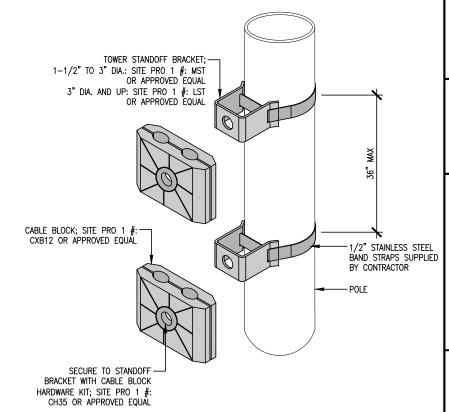




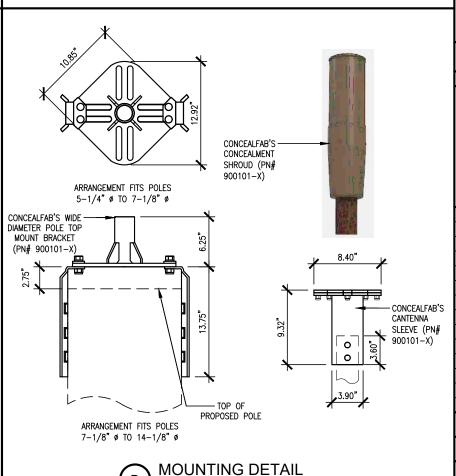


PROPERTY OF verizon wireless 800-264-6620









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DESIGN

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FNCINFFRINCIII

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Signature Date 01/27/2021 License # 42392

STRUCTURAL #: 201237

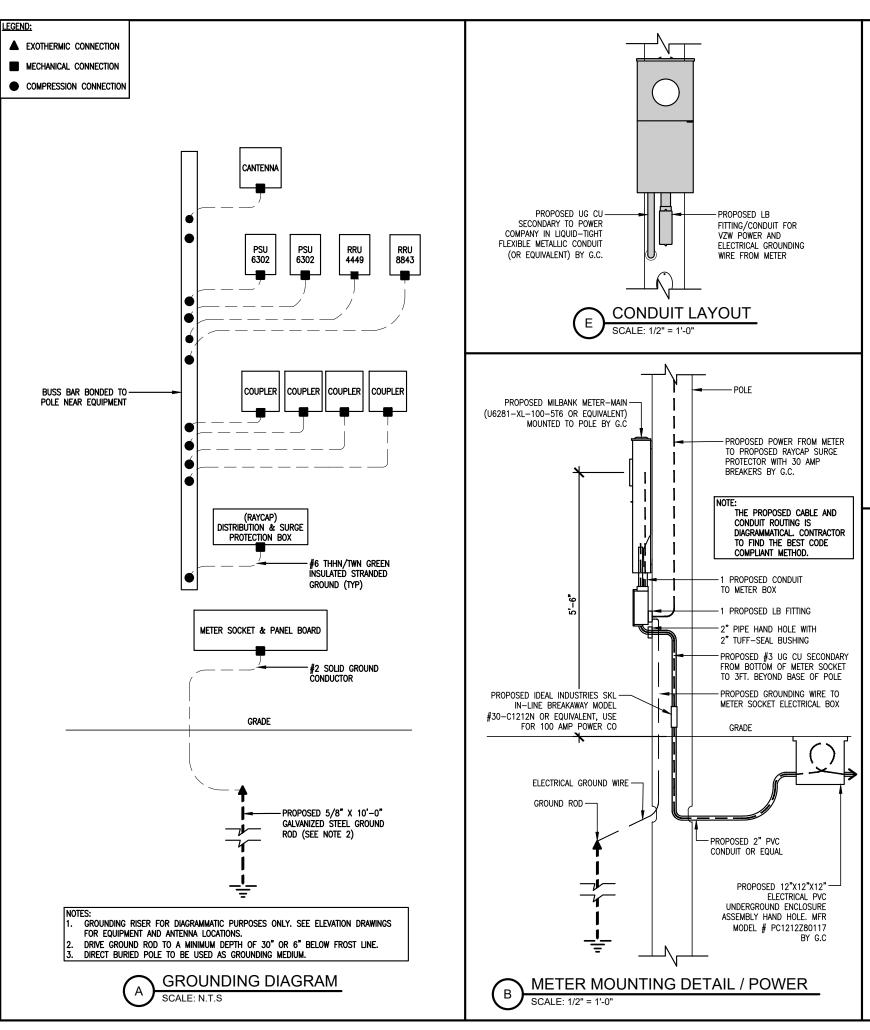
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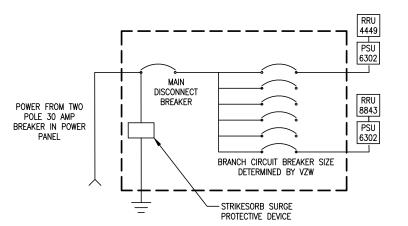
MIN BLAISE

SC04

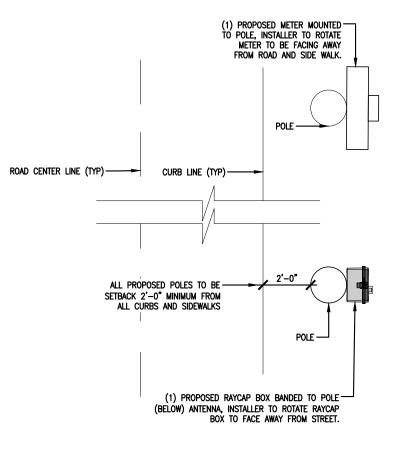
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	NPR	07	7-20-20	REV. A.1	
	NPR	30	3-03-20	REV. 0	
	NPR	01	I-27-21	REV. 1	
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	RFDS:				
	DATE:		04-08-20		
	PLOT [DΑT	ΓE	01-27-21	
	SET TYPE			CONSTRUCTION / BID	
	SHEET	TI	TLE	EQUIPMENT DETAILS	
	SHEET	NI	JMBER	SHEET 3	







TYPICAL RAYCAP ONE-LINE DIAGRAM



RAYCAP AND METER ORIENTATION

SCALE: N.T.S

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DESIGN

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: AMZUM

Name: Ali Abedini

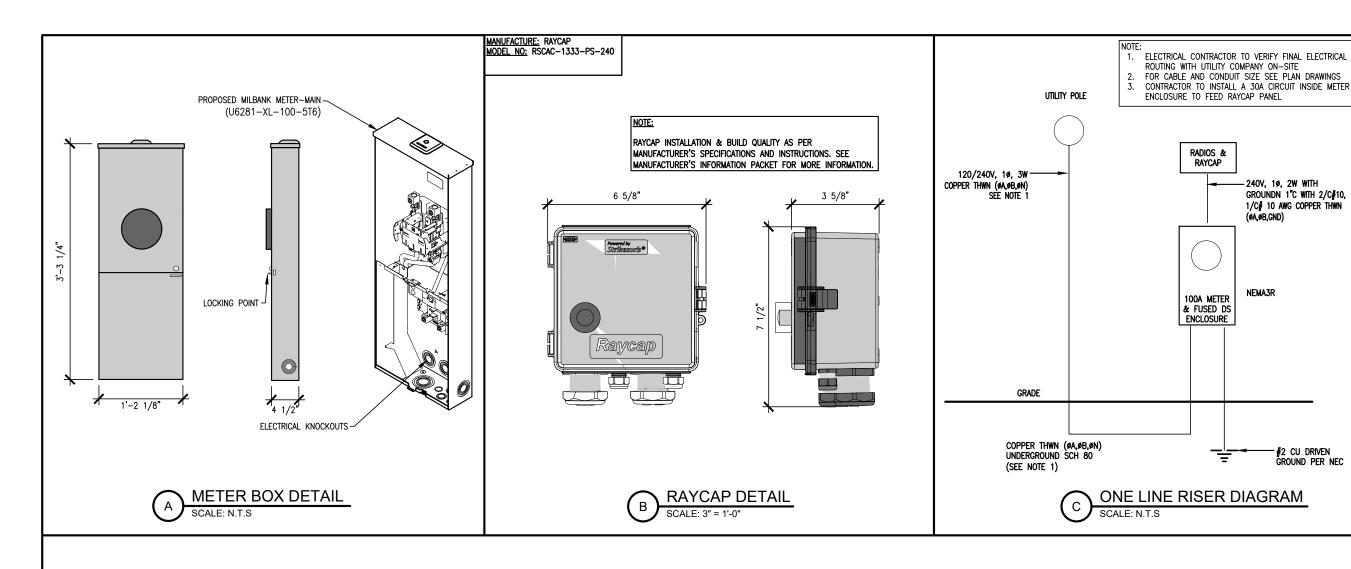
Date: 01/27/2021

License Number: 56614

TAB CHECKED BY:

MIN BLAISE

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INITIAL:	D	ATE:	DESCRIPTION:				
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NPR	07	7-20-20	REV. A.1				
NPR	08	3-03-20	REV. 0				
NPR	01	1-27-21	REV. 1				
STRUCTURAL ANALYSIS:							
DATE:		DESCRI	PTION:				
RFDS:							
DATE:		04-08-20	1				
PLOT DATE			01-27-21				
SET TYPE			CONSTRUCTION / BID				
SHEET TITLE			ELECTRICAL, FIBER & GROUNDING DETAILS				
SHEET	N	UMBER	SHEET 4				



ELECTRICAL LOAD ANALYSIS PANEL								
VOLTAGE: 120/240 V -1PH OCCUPANCY: TELECOMMUNICATION TOWER								
DESCRIPTION OF LOAD	LOAD		AMPS AT 240V 1 Ø					
	LOAD	Ø A	ØB	ØC	ØN			
4449 POWER X 1.25 =	1552	6.5	6.5	-	-			
8843 POWER X 1.25 =	1560	6.5	6.5					
TOTAL CONNECTED LOAD =		13	13	-	-			
SERVICE AMPACITY		100	100	-	100			

FIELD VERIFY LOAD PRIOR TO INSTALLING WIRE, CONDUIT, ETC.

ALL LOADS REQUIRE APPROPRIATE GROUND WIRE.
 ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.
 CONTRACTOR SHALL INSTALL FEEDERS BASED ON THE OVER CURRENT DEVICE RATINGS.

5. ABOVE GROUND CONDUIT SHALL BE RIGID EMT OR IMC CONDUIT OR BETTER.

6. CONTRACTOR SHALL INSTALL A MINIMUM 2"X3" LABEL IN BLUE LETTERING ON A CONTRASTING DATE OF CALCULATION FOR AVAILABLE

SHORT CIRCUIT CURRENT. 7. ALL THE INSTALLED ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES OR EQUIPMENT SHALL BE IN FULL COMPLIANCE WITH

STATE OF MINNESOTA RULES AND OTHER APPLICABLE CODES. THE MARKER'S NAME, TRADEMARK OR OTHER IDENTIFICATION SYMBOL SHALL BE PLACED ON ALL THE MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES AND EQUIPMENT. ALL THE INSTALLED ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED AND LABEL FOR INTENDED USE AND SHALL BE INCLUDED IN A LIST PUBLISHED BY

8. SERVICE DISCONNECT AND METERING LOCATION SHALL BE COORDINATED WITH VERIZON AND XCEL ENERGY.

9. ALL UNDERGROUND CABLE SHALL BE BURIED 24" MINIMUM UNDERGROUND. IT SHALL BE ROUTED IN MINIMUM PVC SCH 80 CONDUIT. 10. CONTRACTOR TO PROVIDE HAND HOLE/PULL BOX TO PROTECT CABLE I.E. STREET CROSSING, LONG RUN, CABLE DIRECTION CHANGE MORE THAN 270 DEGREE.

11. ALL WORK SHALL MEET LATEST ADOPTED NEC AND OTHER NATIONAL AND LOCAL CODES.

12. ALL CABLE AND CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. CONTRACTOR TO FIND THE BEST CODE COMPLIANT METHOD AND COORDINATE IT WITH VZW, CITY AND UTILITY.

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the state of Minnesota.

Signature: A Wouth

Name: Ali Abedini

Date: 01/27/2021

License Number: 56614

TAB CHECKED BY:

MIN BLAISE

SC04

SUBMITTAL:				
INITIAL:	D	ATE:	DESCRIPTION:	
SWS	06	6-26-20	REV. A	
NPR	07	7-20-20	REV. A.1	
NPR	08	3-03-20	REV. 0	
NPR	01	1-27-21	REV. 1	
STRUCT	UR	AL ANAL	YSIS:	
DATE:		DESCRIPTION:		
RFDS:				
DATE:		04-08-20	ı	
PLOT DATE			01-27-21	
SET TYPE SHEET TITLE			CONSTRUCTION / BID	
			ELECTRICAL, FIBER & GROUNDING DETAILS	
SHEET	N	UMBER	SHEET 5	

GENERAL CONDITIONS

00 0001 PERMITS

Construction Permit shall be acquired by, or in the name of, Verizon Wireless, to be hereinafter referred to as the OWNER. Other permits shall be acquired by the Contractor

00 0002 SURVEY FEES

Survey shall be furnished by the Architect. Layout Staking shall be coordinated with the Surveyor per "Request For Quote", (RFQ).

01 0010 INSURANCE & BONDS

Contractor is to furnish Insurance certificates for themselves and subcontractors. Contractor will provide any required Bonding. Contractor agrees to warranty the project for (1) one year after completion.

01 0400 SUPERVISION & COORDINATION

Contractor shall provide supervision throughout the Project, coordinating the work of the Subcontractors, and delivery & installation of Owner-furnished items. Contractor's responsibilities include arranging & conducting of Underground Utilities Locates. Contractor shall comply with municipal, county, state and/or federal codes, including OSHA.

01 0600 TESTING

Contractor is responsible for providing Agencies with sufficient notice to arrange for Test Samples (i.e.: Concrete Cylinders), and for Special Inspections.

01 2000 MEETINGS

Contractor shall make themselves aware of, and attend, meetings with the Owner and/or Architect. Contractor is to attend a Pre-Construction Meeting of all parties involved, prior to the start of construction.

01 5100 TEMPORARY UTILITIES

Contractor shall maintain the job site in a clean and orderly fashion, providing temporary sanitary facilities, and waste disposal.

01 5300 EQUIPMENT RENTAL

Contractor shall furnish equipment necessary to expedite work.

01 5900 FIELD OFFICES & SHEDS

Contractor shall provide security (fence area or trailer module) for tools and materials that remain overnight on site.

01 7000 CLEAN UP & CLOSE OUT

Contractor shall clean up the Site to the satisfaction of Owner. Contractor shall complete the items listed on the Owner's Punch List, and shall sign and return the List to the Owner. Contractor shall maintain a set of drawings during the job, on which changes shall be noted in red ink. A full set of redlined drawings (As—Builts) are to be given to the Architect at Job completion and submit "construction work complete memo" to Construction Engineer.

01 8000 TRUCKS & MILEAGE

Contractor shall provide transportation for their own personnel.

01 8300 TRAVEL TIME & PER DIEM

Contractor shall provide room and board for their own personnel, and reasonable time for traveling to & from job site.

01 9200 TAXES

Contractor shall pay sales and/or use tax on materials and taxable services.

<u>SITEWORK</u>

02 1000 SITE PREPARATION

14/7

02 1100 ROAD IMPROVEMENT & CONSTRUCTION

02 2000 EARTHWORK & EXCAVATION

N/A

02 5000 PAVING & SURFACING
Existing bituminous and concrete surfaces damaged during the construction process must be returned to pre construction condition or better. Coordinate with owner and

02 7800 POWER TO SITE

Contractor shall coordinate the electrical service to the RRU's with the Utility Provider. Contractor to supply redlined drawings of power route if changed at the time of construction in the field.

02 7900 TELCO TO SITE

Contractor shall provide 2" schedule 40 PVC conduit, (schedule 80 PVC under roads and drives) with 'large sweep' elbows & pull string for TELCO service as noted on plans. Cable to be fiber optic lines, source and provider T.B.D.

02 8000 SITE IMPROVEMENTS

N/

02 8001 FENCING

N/A

02 8500 IRRIGATION SYSTEMS

Contractor shall add to/re-route existing irrigation system as necessary for new construction. Contractor shall provide temporary irrigation of new seed or sod, to be maintained so it survives 1 year after planting.

02 9000 LANDSCAPING

Contractor to restore turf areas damaged by construction to preconstruction condition or better.

Contractor shall protect existing landscape elements that are not in the Scope of Work. Reasonable precautions shall be taken to assure the health of existing trees and shrubbery. If conflicts arise regarding the location of root systems, branch lines, etc., the Architect must be contacted prior to performing Work that may cause damage. Damage resulting from disregard of this Article shall be compensated by the Responsible Party and at a cost to be determined by the Property Owner, Architect, and Owner. Contractor shall furnish and install new seed or sod.

Watering shall be as described in 02 8500.

CONCRETE

03 1000 CONCRETE FORM WORK

Concrete forms shall be dimension lumber, modular, or steel.

MASONRY N/A

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METALS

05 0000 METALS

Contractor will furnish and install structural and fabricated steel items not specifically furnished by Owner, and install Owner-furnished items. Structural steel shall be fabricated and erected per AISC specifications. Welding shall conform to AWS standards. Field welding shall be as shown on Shop Drawings, performed by AWS Certified Welders, and inspected as prescribed by the Structural Engineer. Steel shall be ASTM A992 OR A36, and 3/4" field bolts shall be A325. Temporary erecting bolts, clip hangers, and bracing shall be furnished by Contractor. Fabrications shall be shop welded if possible, and galvanized before delivery to site. Structural steel, and miscellaneous iron and steel, shall be hot dipped galvanized per ASTM A123 thickness grade 55. Fabricated iron and steel hardware shall be hot dipped galvanized per ASTM A153. Repair of damaged or uncoated galvanized surfaces shall be per ASTM A780.

WOOD & PLASTICS

N/A

THERMAL & MOISTURE

N/A

DOORS AND HARDWARE

N/A

FINISHE

09 9000 PAINTING

Contractor shall provide materials and labor for all painting indicated in the architectural documents and shall touch—up construction related scrapes & scratches with appropriate paint.

Contractor to obtain Lessor and Architect approvals of all swatches prior to application of paint:

* Contractor to paint non 5G antennas, RRU's, mounts, and related equipment SW 6006 (BLACK BEAN). See SHEET 2 for 5G Wrap.

SPECIAL CONSTRUCTION

13 1260 CABLE BRIDGE, CANOPY

N/A

13 1400 ANTENNA INSTALL

Contractor shall install Owner's antennas and feed lines during erecting. Contractor shall test and certify feed lines per current VZW standards.

13 3423 TRANSPORT AND SET ANTENNAS / FQUIPMENT

Contractor shall provide crane(s) and/or truck for transporting, setting antennas and related equipment on pole.

13 3613 ANTENNA MOUNTS

Contractor to install antenna mounts per manufacturers specifications.

13 5000 CONCEALMENT FILM

Contractor to furnish the antennas and equipment with Concealment Film as indicated in the drawings. Concealment Film to be 3M "Envision Print Wrap Films 480mC". Concealment film to be mirror—like, solid—color or custom—pattern as indicated in the drawings. Printing to be performed by a 3M MCS Certified graphics manufacturer. Printed concealment film to be covered with 3M "Anti—Grafitti Wrap Matte Overlaminate 8590M". Concealment film to be installed on antennas and equipment to the extents indicated in the drawings and shall exclude heat—sink "fins". Installation of the overlaminated, printed concealment film onto antennas and equipment to be by a

trained 3M "Preferred", "Endorsed" or "Certified" installer or graphic installation company. For procuring the proper 3M concealment film with the desired color/pattern and to find local certified installers contact ConcealFab at (719) 599—3400 or sales@concealfab.com.

*Solid color to be Sherwin Williams SW 6006 (BLACK BEAN), for color conversion to RGB and Hex Values see

https://www.sherwin-williams.com/home-builders/color/tools/downloadable-color-palettes.

13 RF SIGNAGE

Contractor to install at minimum 2 identical "RF WARNING" stickers at approximately 3 feet bellow the lowest attached Verizon owned equipment, 180' apart from each other.

MECHANICAL

15 4000 PLUMBING

N/A

15 5000 HVAC N/A

ELECTRIC

16 5000 LIGHTING AND ELECTRICAL SEE SHEET 5 & 6 FOR DETAILS.

16 6000 GROUNDING

Contractor shall make themselves familiar with and follow the current GROUNDING STANDARDS of VERIZON WIRELESS. Contractor shall perform work as shown on Grounding Plans. Any site-specific grounding issues not covered by the GROUNDING STANDARD are to be addressed by the Contractor to the Owner.

SCOPE OF WORK:

CONTRACTOR SHALL PROVIDE MATERIALS, LABOR, TOOLS, TRANSPORTATION, SUPERVISION, ETC. TO FULLY EXECUTE WORK. WORK REQUIREMENTS ARE DETAILED ON THE DRAWINGS AND SPECIFICATIONS AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING

SITE PREPARATION INSTALL ANTENNAS/RRU'S POWER/FIBER TO RRU'S SITE GROUNDING

verizon/

10801 Bush Lake Rd Bloomington, MN 55438 952.946.4694 voice



9973 VALLEY VIEW RD. EDEN PRAIRIE, MN 5534-(952) 903-9299 WWW DESIGN1EP COM



HERZOG

530 North 3rd Street, Suite 230 Minneapolis, MN 55401

(612) 844 - 1234

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Print Name: Joshua Herzog



STRUCTURAL #: 201237

CHECKED BY: TAB

MIN BLAISE

SC04

SUBMIT	SUBMITTAL:						
INITIAL:	D	ATE:	DESCRIPTION:				
SWS	06	6-26-20	REV. A				
NPR	07	7-20-20	REV. A.1				
NPR	30	3-03-20	REV. 0				
NPR	01	I-27-21	REV. 1				
STRUCT	UR	AL ANAL	YSIS:				
DATE:		DESCRI	PTION:				
RFDS:							
DATE:		04-08-20	l				
PLOT DATE			01-27-21				
SET TYPE			CONSTRUCTION / BID				
SHEET	TI	TLE	GENERAL NOTES				

SHEET NI IMBEE

SHEET 6

