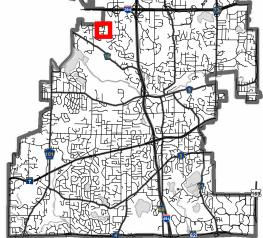
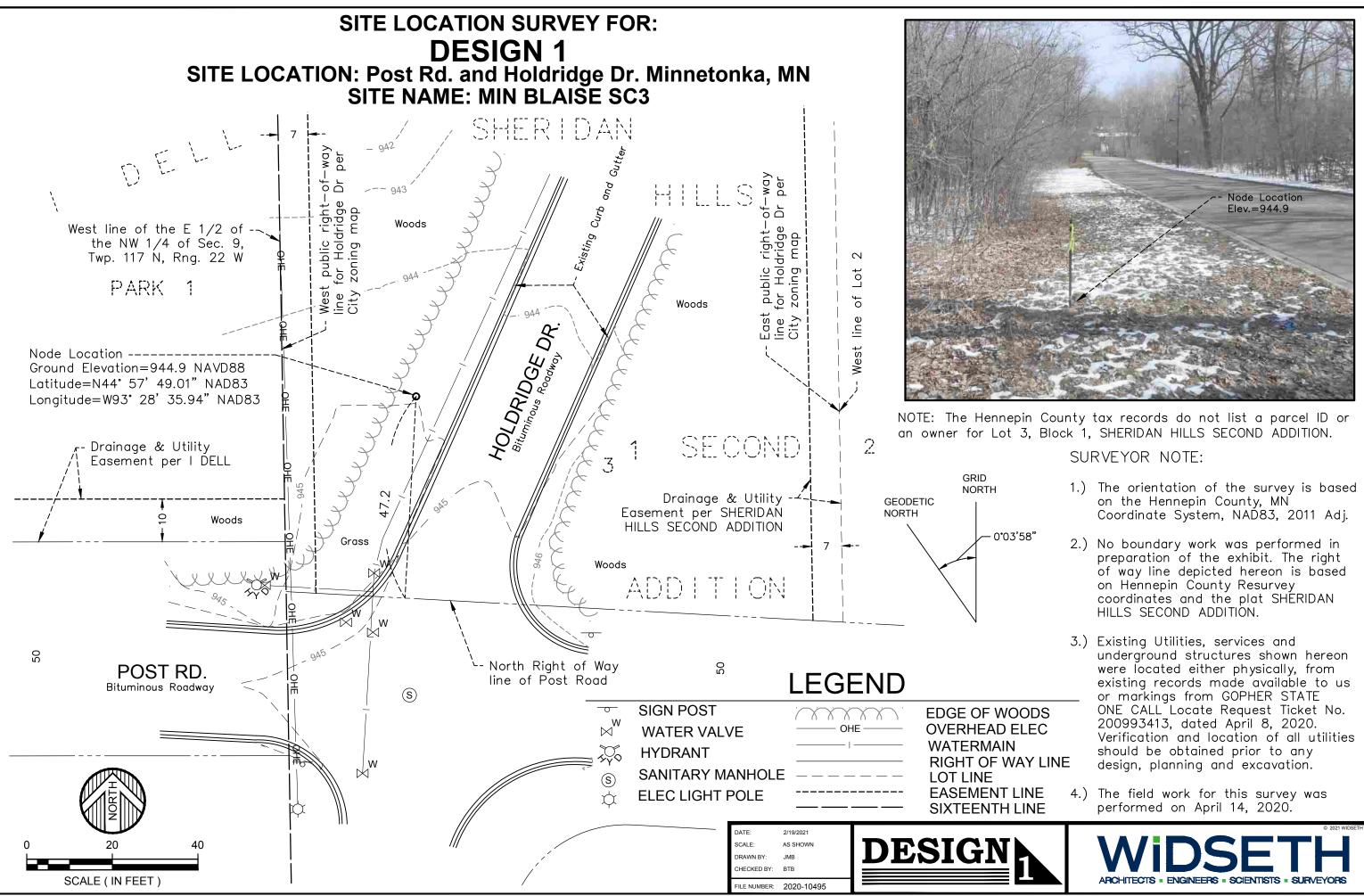


Location Map

Project: Verizon Small Cell Wireless Location: Holdridge Drive and Post Road











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				

verizon



SC 3

		PROJECTS					PROJECT D	ESCRIPTION
PROJECT NAM	E SITE ADDRESS	COORDINATES	PROJECT NUMBER	LOCATION CODE	SHEET INDEX	WORK IT	EM	SUPPLIED
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
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
						CABLING		CONTRACTOR
						- RAYCAP BOX		VERIZON
						HAND HOLE		FIBER PROVIDER
						FIBER FROM FIBER HAND HOLE TO E	QUIPMENT	CONTRACTOR
						ELECTRICAL RUN		CONTRACTOR
						ELECTRICAL RISER		SEE UTILITY PLAN
						ELECTRICAL HAND HOLE		CONTRACTOR
						ELECTRICAL METER		CONTRACTOR
							POLE INFO	ORMATION
						EXISTING POLE TYPE: N/A EXISTING POLE FINISH: N/A	NEW POLE MATERIAL: NEW POLE FINISH:	aluminum pain Paint
	DIRECTORY			NOTE	S		VERIZON	DEPARTMEN

DESIGN 1 ARCHITECTS LLC 9973 VALLEY VIEW ROAD EDEN PRAIRIE, MN 55344 PHONE: 952.903.9299

ASSET OWNER: VERIZON WIRELESS 10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438 KATIE POSER 612.968.9077

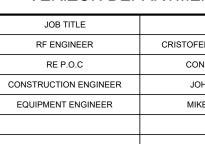
POWER PROVIDER: XCEL ENERGY 1518 CHESTNUT AVE MINNEAPOLIS, MN 55403 CONTACT: DAN HAMANN PHONE: 952.380.2655 VERIZON PROJECT MANAGER: CONTACT: KATIE POSER PHONE: 612.968.9077 EMAIL: katie.poser@verizonwireless.com VERIZON IMPLEMENTATION MANAGER: CONTACT: PETE BLUTH PHONE: 952.380.7496 EMAIL: peter.bluth@verizonwireless.com VERIZON CONSTRUCTION MANAGER: CONTACT: JOHN HAUGEN PHONE: 612.290.9707 EMAIL: cameron.conrad@verizonwireless.com

ROW CONTACT:

299 WAYZATA BLVD W, WAYZATA, MN 55391 CONTACT: JEN SCHUMANN PHONE: 952.404.5371 EMAIL: ischumann@wayzata.org

STRUCTURAL ENGINEER: HERZOG ENGINEERING 530 NORTH 3RD ST, SUITE 230 MINNEAPOLIS, MN 55401 CONTACT: JOSHUA HERZOG PHONE: 651-844-1234 In the event that Special Inspections are not performed in compliance with the contract terms, bid specifications and/or specified form, the General Contractor will be liable for all damages, construction performance, failures, and corrective actions related to the same.

- 2. The following general notes shall apply to drawings and govern unless otherwise noted or specified.
- 3. The work delineated in these drawings and described in the specifications shall conform to codes, standards and regulations that have jurisdiction in the state of MN, and the city of WAYZATA.
- 4. Requirements and regulations pertaining to R.F. safety codes and practices must be incorporated in the work even though they may not be listed individually and separately in either the drawings or the specifications.
- 5. Compare field conditions with architectural and engineering drawings. Any discrepancies shall be directed to the Architect for clarification prior to fabrication and/or construction. Submit necessary shop drawings prior to fabrication for approval by the Architect. No information or details on these sheets may be used without the permission of the owner, or the architect.
- 6. Do not scale drawings!
- 7. Unless otherwise shown or noted, typical details shall be used where applicable.
- 8. Details shall be considered typical at similar conditions.
- 9. Safety measures: The contractor shall be solely and completely responsible for the conditions of the job site, including safety of the persons and property and for independent engineering reviews of these conditions. The Architect's or Engineers' job site review is not intended to include review of the adequacy of the contractor's safety measures.
- 10. Within these plans and specifications, "Owner" implies VERIZON WIRELESS.
- 11. The work is the responsibility of the general contractor unless noted otherwise.
- 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 contractor's responsibility to determine the division of work among sub-contractors.
- The general contractor is responsible in obtaining necessary public and private underground utility locate services prior to start of excavating / construction.

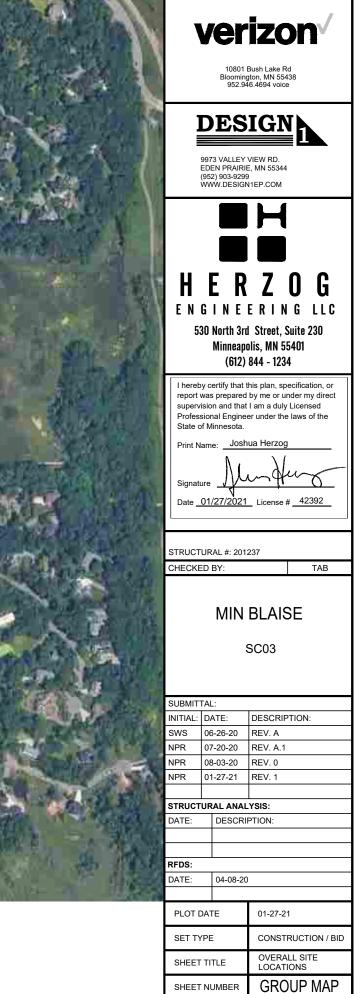


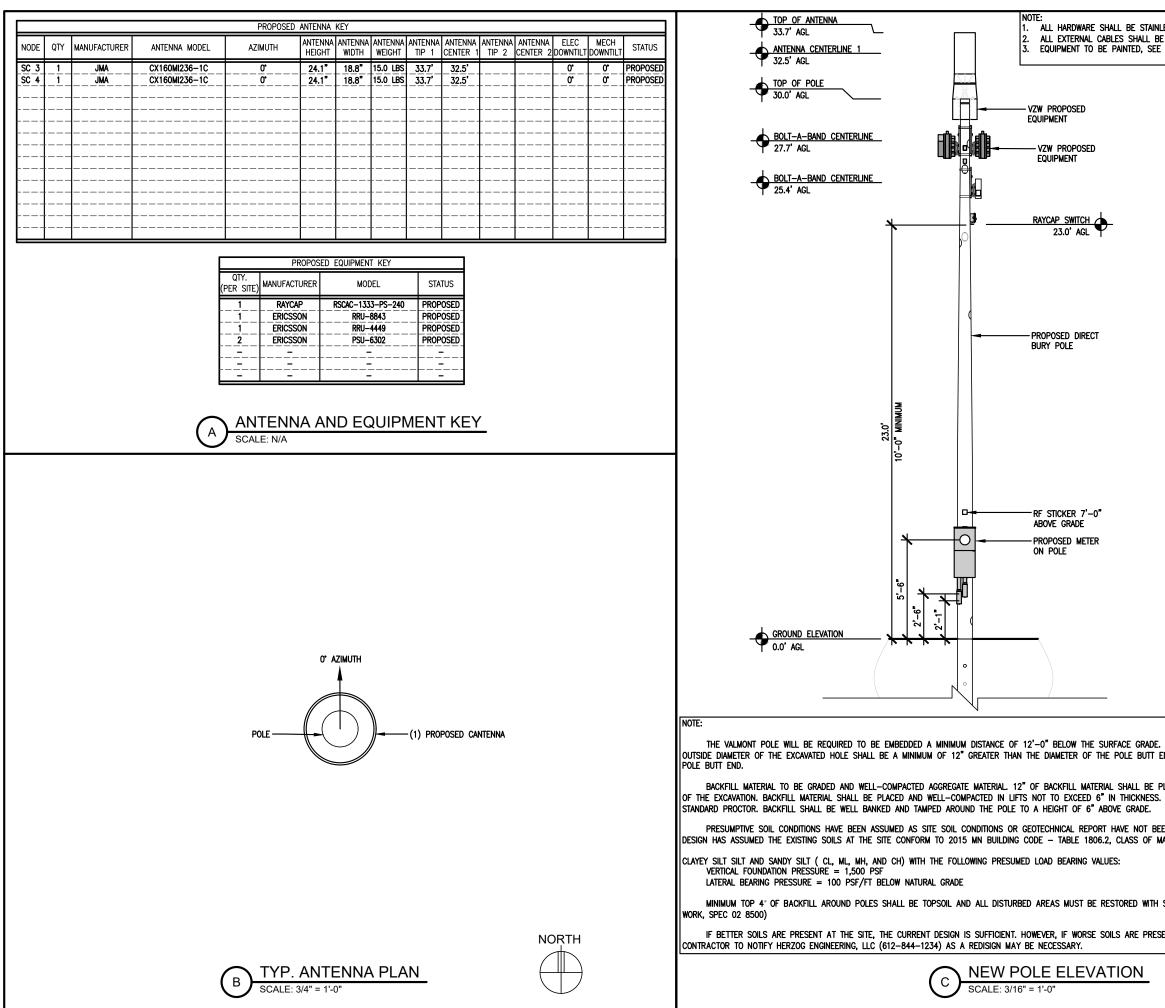
ADDITIONAL A

JOB TITLE	

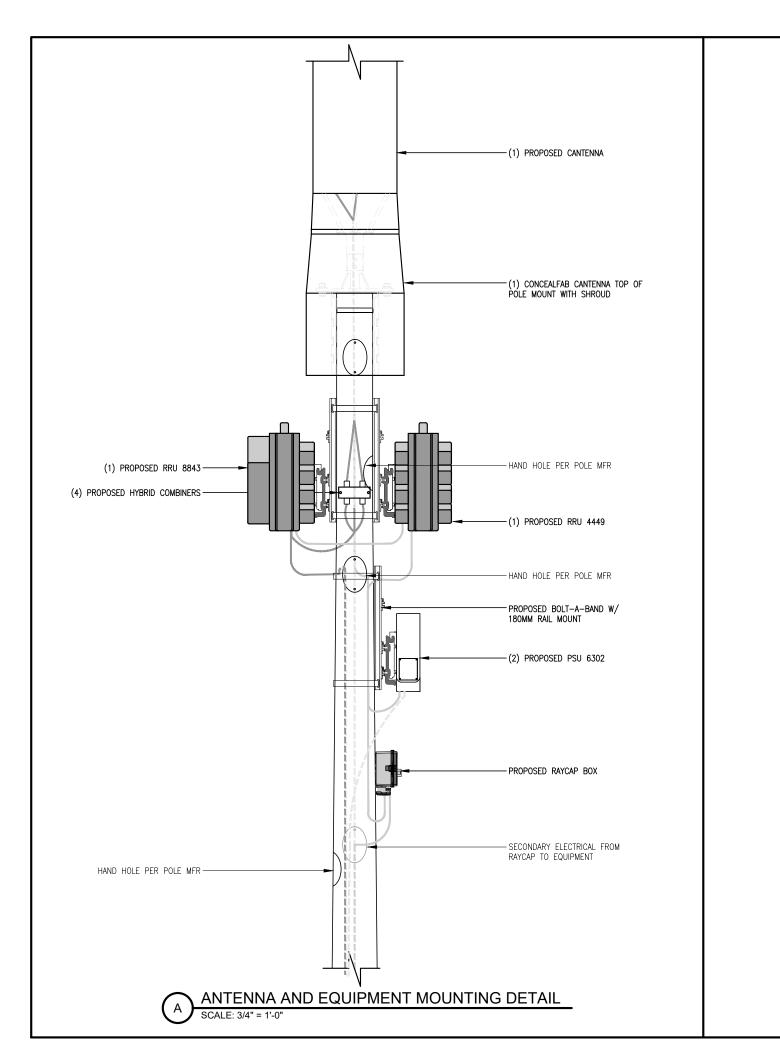
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R	CON	NTRACTOR					ecification, or
	100	NTRACTOR	superv	isio	n and that	I am a duly	
ER	FIBEF	R PROVIDER	Professional Engineer under the laws of the State of Minnesota. Print Name: <u>Joshua Herzog</u> Signature <u>Joshua Herzog</u> Date <u>01/27/2021</u> License # <u>42392</u>				
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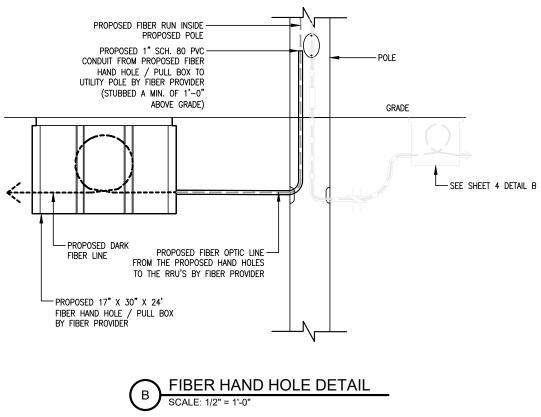


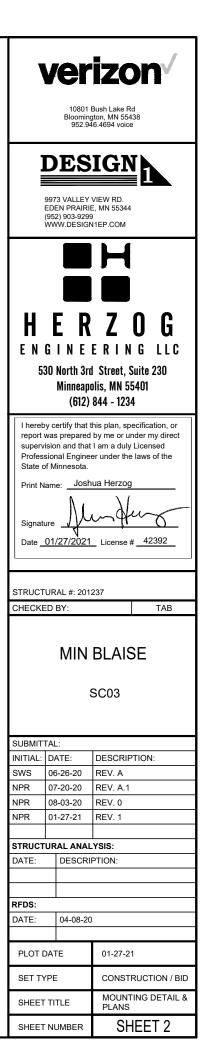




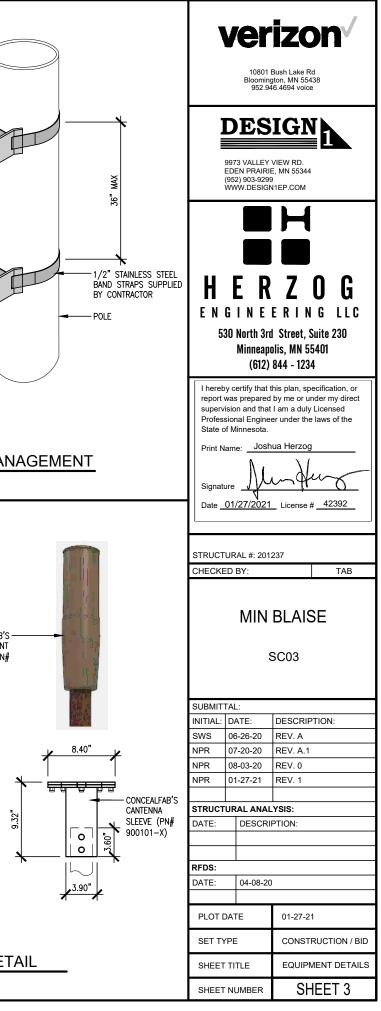
ESS STEEL. . SECURED TO POLE EVERY 36" OR LESS. SHEET 6 PAINT SPEC 09 9000 PAINTING.		V	er	izon√	
			Blooming	Bush Lake Rd Iton, MN 55438 6.4694 voice	
	DESIGN L 9973 VALLEY VIEW RD. EDEN PRAIRIE, NN 55344 (952) 903-9299 WWW.DESIGN1EP.COM				
	HERZOG ENGINEERING LLC 530 North 3rd Street, Suite 230				
			-	olis, MN 55401 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 June 4000 June 40				
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LACED AND WELL-COMPACTED AT THE BOTTOM BACKFILL SHALL BE COMPACTED TO 95%	NPR NPR	-	3-03-20 -27-21	REV. 0 REV. 1	
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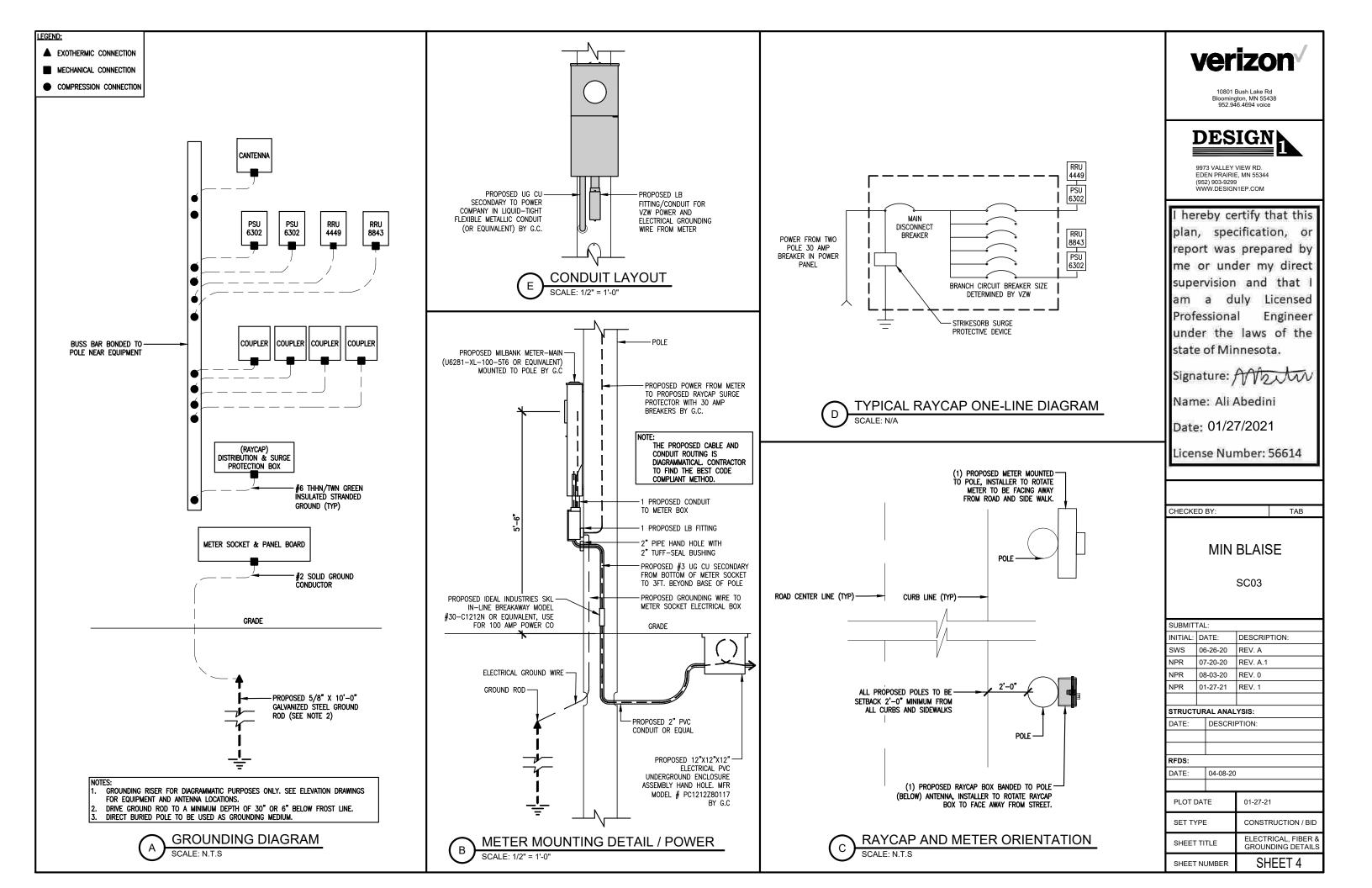


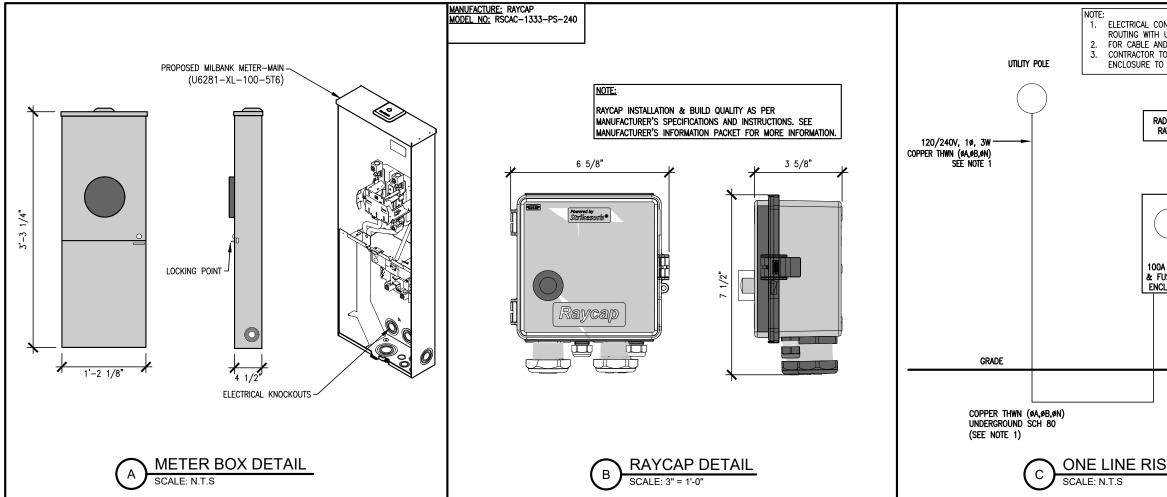




TUFF-SEAL BUSHING LIST <u>PART # BUSHING SPEC #OF ADLES OF EACH HUB SIZE</u> <u>RSR-500-2 2 500/375 1 1/2"</u> <u>RSR-500-2 2 0.5 1 1/2"</u> <u>RSR-500-3 3 0.375 1 1/2"</u> <u>RSR-506-3 3 0.375 1 1/2"</u>	<complex-block><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/><image/></complex-block>	TOWER STANDOFF BRACKET; 1-1/2" TO 3" DIA: SITE PRO 1 #: MST OR APPROVED EQUAL 3" DIA AND UP: SITE PRO 1 #: LST OR APPROVED EQUAL CABLE BLOCK; SITE PRO 1 #: CABLE DLOCK; SITE PRO 1 #: CABLE DLOCK; SITE PRO 1 #: CABLE DLOCK; SITE PRO 1 #: CABLE BLOCK; SITE PRO 1 #: CABLE BL
A SCALE: N.T.S	B RF WARNING SIGNS @ 7 AGL SCALE: N.T.S	C TYP. CABLE MAN
		CONCEALFAB'S CONCEALFAB'S - CONCEALFAB'S WIDE DIAMETER POLE TO T-1/8" Ø CONCEALFAB'S WIDE DIAMETER POLE TOP MOUNT BRACKET (PN# 900101-x) *CONCEALFAB'S WIDE MOUNT BRACKET (PN# 900101-x) *CONCEALFAB'S WIDE DIAMETER POLE TOP MOUNT BRACKET (PN# 900101-x) *CONCEALFAB'S WIDE MOUNT BRACKET (PN# 900101-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALFAB'S WIDE (PN# 90010-x) *CONCEALF







VOLTAGE: 120/240 V -1PH OCCUPANCY: TELECOMMUNICATION TOWER								
DESCRIPTION OF LOAD	LOAD	AMPS AT 240V 1 Ø						
DESCRIPTION OF LOAD	LOAD	ØA	Ø B	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			

NOTE:

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

SHORT CIRCUIT CURRENT.

7. ALL THE INSTALLED ELECTRICAL MATERIALS, APPARATUS, DEVICES, APPLIANCES OR EQUIPMENT SHAL STATE OF MINNESOTA RULES AND OTHER APPLICABLE CODES. THE MARKER'S NAME, TRADEMARK OR O BE PLACED ON ALL THE MATERIALS, APPARATUS, DEVICES, APPLIANCES, FIXTURES AND EQUIPMENT. AL MATERIALS AND EQUIPMENT SHALL BE LISTED AND LABEL FOR INTENDED USE AND SHALL BE INCLUDE APPROVED AGENCY.

8. SERVICE DISCONNECT AND METERING LOCATION SHALL BE COORDINATED WITH VERIZON AND XCEL 9. ALL UNDERGROUND CABLE SHALL BE BURIED 24" MINIMUM UNDERGROUND. IT SHALL BE ROUTED 10. CONTRACTOR TO PROVIDE HAND HOLE/PULL BOX TO PROTECT CABLE I.E. STREET CROSSING, LON 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 COORDINATE IT WITH VZW, CITY AND UTILITY.

			_		
NTRACTOR TO VERIFY FINAL ELECTRICAL UTILITY COMPANY ON—SITE D CONDUIT SIZE SEE PLAN DRAWINGS O INSTALL A 30A CIRCUIT INSIDE METER FEED RAYCAP PANEL			V	10801 Blooming	izon Bush Lake Rd gton, MN 55438 16.4694 voice
DIOS & AYCAP 240V, 1ø, 2W WITH GROUNDN 1°C WITH 2/C#10, 1/C# 10 AWG COPPER THWN (øA,øB,GND)			997 EDE (952	3 VALLEY EN PRAIRII 2) 903-9299	E, MN 55344
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		Signature: AMLtW Name: Ali Abedini Date: 01/27/2021			
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L BE IN FULL COMPLIANCE WITH THER IDENTIFICATION SYMBOL SHALL L THE INSTALLED ELECTRICAL		DATE:		DESCRI	
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ENERGY. IN MINIMUM PVC SCH 80 CONDUIT. IG RUN, CABLE DIRECTION CHANGE		DATE:		04-08-20)
r code compliant method and		PLOT [ΤΑΟ	E	01-27-21
		SET TY	Έ		CONSTRUCTION / BID
		SHEET	TI	TLE	ELECTRICAL, FIBER & GROUNDING DETAILS
		SHEET	NU	JMBER	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

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.

SITEWORK

02 1000 SITE PREPARATION

02 1100 ROAD IMPROVEMENT & CONSTRUCTION

02 2000 EARTHWORK & EXCAVATION

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 architect.

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/A

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 aball be as described in 02 8500.

watering shall be as described in 0.

CONCRETE

0.3 1000 CONCRETE FORM WORK

Concrete forms shall be dimension lumber, modular, or steel

MASONRY

N/A

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 AS25. 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 surfaces shall be per ASTM A780.

WOOD & PLASTICS

THERMAL & MOISTURE

DOORS AND HARDWARE

FINISHES

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 / EQUIPMENT

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 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

15 5000 HVAC N/A

<u>ELECTRIC</u>

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 ITEMS:

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				
]	D	ES	IGN	
9973 VALLEY VIEW RD. EDEN PRAIRIE, MN 55344 (952) 903-9299 WWW.DESIGN1EP.COM				
H				
H F N	 G		ZOG ERINGLLC	
	-	North 3rd	Street, Suite 230	
			olis, MN 55401 844 - 1234	
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		linnesota. _{le:} Josh	ua Herzog	
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NPR NPR		3-03-20 1-27-21	REV. 0 REV. 1	
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SHEET	ΤI	TLE	GENERAL NOTES	
SHEET NUMBER			SHEET 6	

