



Dodge County Planning Commission, Tuesday, February 19, 2019 at 4:30 P.M., Board of Supervisors Room, Courthouse, Fremont, NE.

- 1. Call to Order at 4:30 P.M. Roll Call Declaration of Open Meeting
- 2. Legality of Meeting Approval of Agenda
- 3. Approval of Minutes of January 15, 2019 Meeting
- 4. **Public Hearing**: Consider request of Jeffrey Mitties of 1753 County Rd. 2, North Bend, NE 68649 to obtain a Conditional Use Permit to install a 250 ft. Self-Support Tower as per Article 25, **Supplemental District Regulations** Section 4. Radio, Television and Wireless Communication Towers and Facilities located in E ½ SW ¼ Section 30, Township 18 North, Range 5 East in Union Township, Zoning District A-1, Intensive Ag.

Tact	imony	•
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For:

Against:

Possible Action:

Public Hearing: Consider request of Lee & Pamela Camenzind, Land Owners of 10406 State St. Omaha, NE 68122 to obtain a Conditional Use Permit for a new Livestock Feeding Operation (Poultry) 3,800 Animal Units as per Article 13. Conditional Uses 2.19 located in S. ½ NE ¼ Section 15, Township 18 North, Range 8 East in Nickerson Township, Zoning District A-2, General Ag.

Testimony:

For:

Against:

Possible Action:

- 6. Reorganization of Planning Commission: Election of Officers
- 7. Other Business brought by the board (by published addendum only)
- 8. Adjournment

AGENDA POSTED AND KEPT CONTINUALLY CURRENT AT THE DODGE COUNTY COURTHOUSE AND DISTRIBUTED TO THE PLANNING COMMISSION ON FEBRUARY 8, 2019. COPIES AVAILABLE AT THE OFFICE OF THE COUNTY ZONING ADMINISTRATOR AND COUNTY CLERK.

NOTICE PUBLIC MEETING AND HEARINGS DODGE COUNTY PLANNING COMMISSION AND DODGE COUNTY BOARD OF SUPERVISORS

NOTICE IS HEREBY GIVEN, that public hearing of the Dodge County Planning Commission will be held during their regularly scheduled meeting, February 19, 2019 at 4:30 P.M. and with the Dodge County Board of Supervisors during their regularly scheduled meeting on Wednesday, February 27, 2019 at 9:00 A.M. Both meetings will be held in the Dodge County Board of Supervisors Room., 3rd floor of the Courthouse, Fremont, NE for the purpose of hearing testimony of support, opposition, criticism, suggestions or observations for the following item:

- 1. Consider request of Jeffrey Mitties of 1753 County Rd. 2, North Bend, NE 68649 to obtain a Conditional Use Permit to install a 250 ft. Self-Support Tower as per Article 25, Supplemental District Regulations Section 4. Radio, Television and Wireless Communication Towers and Facilities located in E ½ SW ¼ Section 30, Township 18 North, Range 5 East in Union Township, Zoning District A-1, Intensive Ag.
- 2. Consider request of Lee & Pamela Camenzind, Land Owners of 10406 State St. Omaha, NE 68122 to obtain a Conditional Use Permit for a new Livestock Feeding Operation (Poultry) 3,800 Animal Units as per Article 13. **Conditional Uses** 2.19 located in S. ½ NE ¼ Section 15, Township 18 North, Range 8 East in Nickerson Township, Zoning District A-2, General Ag.

Questions or comments concerning the public hearings and proposed request should be directed to the Zoning Administrator at (402) -727-2724 and the Dodge County Clerk's Office at (402)727-2767. All interested parties may offer oral comments at the public hearings and/or may file written comments with the Zoning Administrator or County Clerk concerning the petition and such comments shall be considered by the Board, provided such written comments are received prior to the public hearing dates.

DODGE COUNTY PLANNING COMMISSION - CONDITIONAL USE PERMIT

Based on the record conditional use per as many as apply):	d in this mit, the	s case of the application of <u>Jeffrey Mitties</u> for a Dodge County Planning Commission finds as follows (check
<u>DISAPPROVAL - F</u>	ACTU	4 <i>L FINDINGS:</i>
1.	Does or ger	not protect the comfort, convenience, appearance, prosperity neral welfare of abutting properties and citizens.
2.	Locat health	ion and characteristics of the use will be injurious to the a, safety, morals and general welfare of the area.
3.	Condi regula	itional use does not conform to the intent and purpose of the ations and the comprehensive plan.
	a.	Use does not conform to regulations of the district in which it is located.
	b.	Ingress and egress are not designed to minimize congestion in the public street, road or highway.
	C.	Use is not in harmony with the character of the area and most appropriate use of the land.
	d.	Use does not conserve and stabilize the value of the property.
-	e.	Use does not provide adequate open space for light and air.
	f.	Use adversely affects concentration of population.
	g.	Use congests public streets.
	h.	Use does not promote public safety, health, convenience and comfort.
	i. ·	Other:
APPROVAL - FAC	TUAL I	FINDINGS:
1.	Cond prosp	litional use protects the comfort, convenience, appearance, perity or general welfare of abutting properties and citizens.
2.	Loca healt	tion and characteristics of the use will not be injurious to the h, safety, morals and general welfare of the area.



3.		itional use conforms to the intent and purpose of the ations and the comprehensive plan.
	a.	Use conforms to regulations of the district in which it is located.
	b.	Ingress and egress are designed to minimize congestion in the public street, road or highway.
	c.	Use is in harmony with the character of the area and most appropriate use of the land.
	d.	Use conserves and stabilizes the value of the property.
	e.	Use provides adequate open space for light and air.
-	f.	Use does not adversely affect concentration of population.
	g.	Use does not congest public streets.
	h.	Use promotes public safety, health, convenience and comfort.
palata de caración de la caración de	i.	Other:
		of, 20
BY:		

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APPLICATION FOR CONDITIONAL USE Dodge County, Nebraska

Date 2-4-19 Property Owner's Name Jeff Mitties
Address: 1752 CoRd 2 MBend, NE 68649
Phone No. 402-720-0965 (Home) (Work)
Pursuant to the Dodge County Zoning Regulations, application is hereby made for the following proposed use of property or structure: <u>Construct 358' wireless</u> Telecom
Section 30 Township 18 Range 5 Lot No.
Location within Section E 4 5w 14 Lot Size (Sq.Ft./Acres)
Estimated Cost of Structure/Use \$ Zoning District AG
Will use in all other respects conform to the applicable regulations of the district in which it is located?
Will use conform to all other applicable regulations and laws of any governmental jurisdiction? <u>Ue5</u>
How are Adjoining Properties Used (Actual Use)
North AG South AG
East AG West AG
How are Adjoining Properties Used (Actual Use) NorthAGSouthAG
1. What is the general character of the area? Describe. The entire were entending out the five miles is zoned AG with large tracks of pasture a farm ground with limited housing. 2. Can soil conditions support the proposed development? What is the soil classification of the area? The applicant has computed a poil analysis to determine tower foundation design requirements. 3. Will use have adequate water, sewer and drainage facilities (approved by the Dodge County Board of Health, Dodge County Board of Supervisors, and the State of Nebraska Department of Health)? ALA
2. Can soil conditions support the proposed development? What is the soil classification of the area? The applicant has computed a soil analysis to determine tower foundation design requirements,
3. Will use have adequate water, sewer and drainage facilities (approved by the Dodge County Board of Health, Dodge County Board of Supervisors, and the State of Nebraska Department of Health)? \(\Lambda/I\A\)

Dodge County Planning & Zoning Administrator 435 N. Park, Rm. 204, Fremont, NE 68025 (402)727-2724

4. Will ingress and egress be so designed as to minimize tra 1111 How will the proposed Zoning District affect traffic in tupdated for access to the area? If yes, what will the requirement of the proposed: 11	he area? Will streets or roads need to be ents be? Culesswill be lemited to a Mon ate property.
Conditions and requirements pending approval of application f disposal plan from the DEQ or other applicable State Agency_	or a proposed operation and waste
If Exhibits are furnished, please describe and enumerate. (Fur proposed structures, easements, water courses, curb cutbacks Application Fee of $$150^{\circ0}$$ is Non-Refundable.	
Application Fee of \$ 100 is ivon-Retundable.	
The Zoning Administrator or Building Inspector, who may be act to enter upon the property during normal working hours for the proposed situation.	
In consideration of the issuance of this Certificate, the applican application is true and correct, and hereby certifies that compliant floodplain regulations which are in effect have been met.	ance with the zoning, subdivision and
Applicant's Signature Juffny W. Mailing Addre	ss 1753 Co Rd 2 NBend, NE 68649
OFFICE USE ONLY	
PERMIT NO. 2019-003	
Permit when issued is Transferrable/Transferrable Upon Renev	yal
·	
Date 2/19/19 ApprovedApproved	
Disapproved	Chair, Dodge County Planning Comm
Date <u>2/27/19</u> Approved	
/ / Approved with Added Conditions	
Disapproved	Chair, Dodge County Board of Comm
See attachment for added conditions.	
ATTEST	
	e County Clerk
Dated	d this 27 day of Febr 2019
Batte	

Dodge County Planning & Zoning Administrator 435 N. Park, Rm. 204, Fremont, NE 68025 (402)727-2724

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DODGE COUNTY BUILDING INSPECTION & ZONING DEPARTMENT

JEAN ANDREWS, Zoning Administrator

Courthouse - 435 N. Park, Room 204 Fremont, Nebraska 68025 Phone: (402) 727-2724

January 8, 2019

Jeffrey Mitties 1753 County Rd. 2 North Bend, NE 68649

Good Day!

Enclosed please find a copy of the agenda for the Planning Commission meeting to be held February 19, 2019 at 4:30 P.M. on third floor of the Courthouse, Fremont, NE. You or your representative should make an effort to attend this meeting to answer any questions the board may have. Please come to the east door of the Courthouse for admittance and go directly up to third floor.

Your requests will be heard by the Dodge County Board of Supervisors on Wednesday, February 27, 2019 at 9:30-A.M.

If you have any questions, please feel free to contact my office.

Thank you,

Jean Andrews,

Dodge County Zoning Administrator

Enclosure

Cc: Horvath Towers V, LLC

File

SALVANIA SA			

From: Jeffrey Skinner jeffreyskinner@nevcowireless.com

Subject: Re: Verizon CUP Application Date: January 15, 2019 at 1:54 PM

To: Jean Andrews zoning@dodgecone.us



Jean: I saved the attached copy as a word document so let me know if this one will print? Jeff Mitties lives locally and his address is noted on the cover (front page) of the tower drawings. I provided Horvaths address in the event you required it to send any documentation.

Jeff Mitties address:

LAND OWNER: MITTIES CONTACT: JEFFREY MITTIES 1753 CO RD 2 NORTH BEND, NE 68649 PH.: (402) 652-8769

Jeffrey Skinner c: 515.299.0736

f. 515.225.8767

Nevco Wireless

From: Jean Andrews <zoning@dodgecone.us> Sent: Tuesday, January 15, 2019 1:40:09 PM To: Jeffrey Skinner Subject: Re: Verizon CUP Application

I can not print the Conditional Use Permit Application on either of my printers something about the font.

Can you try again with something different?

Hello Jean:

Hare are the copies of the Verizon CUP application and supporting documents for the proposed tower site Northeast of Rogers. Dodge Title and Escrow will be forwarding the 300' property list and I am forwarding you a check in the amount of \$100.00 for the CUP application.

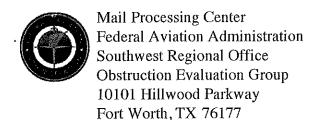
Jeffrey Skinner c: 515.299.0736 1: 515 225 8767

Nevco Wireless

ination of No Hazard_1.17.18 pdb~FW_HV1327_Rogers__Photosims.zlp>~Rev 0_NE05 Rogers_10-19-2018 pdb~<Survey Final_NE05 Rogers_05-10-2017 pdb~Horvaith (Verizon) CUP Application pdf>



Horvath (Verizo...ion.doc



Aeronautical Study No. 2017-ACE-6825-OE

Issued Date: 01/17/2018

Network Regulatory
Alltel Communications of Nebraska, LLC
5055 North Point Pkwy
NP2NE Network Engineering
Alpharetta, GA 30022

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower NE05 ROGERS - A

Location: Rogers, NE

Latitude: 41-29-47.91N NAD 83

Longitude: 96-54-00.94W

Heights: 1306 feet site elevation (SE)

258 feet above ground level (AGL) 1564 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 1, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

____ At least 10 days prior to start of construction (7460-2, Part 1)
__X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 07/17/2019 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

Page 1 of 4

the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (816) 329-2527, or marla.wierman@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ACE-6825-OE.

Signature Control No: 350060439-353192309 (DNE)

Marla Wierman Technician

Attachment(s) Frequency Data Map(s)

cc: FCC

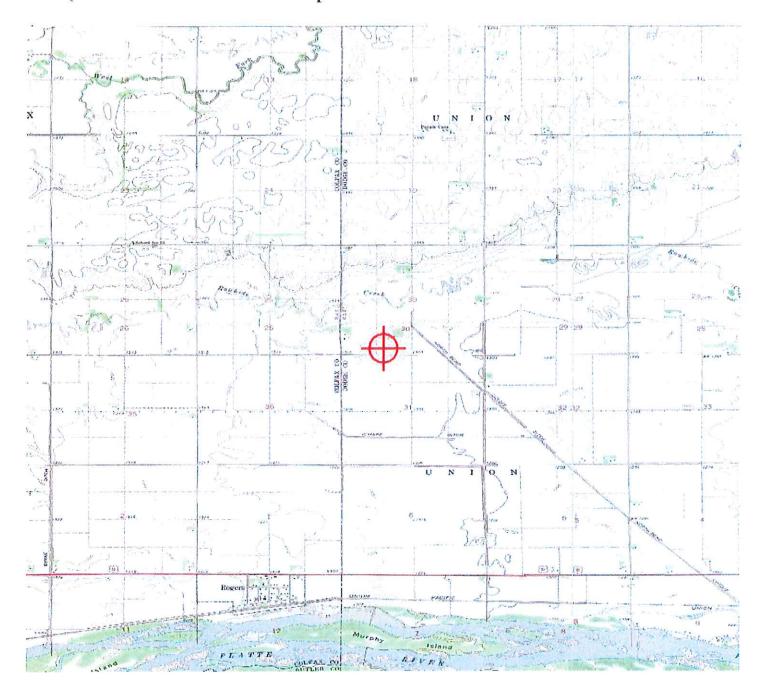
Page 2 of 4

Frequency Data for ASN 2017-ACE-6825-OE

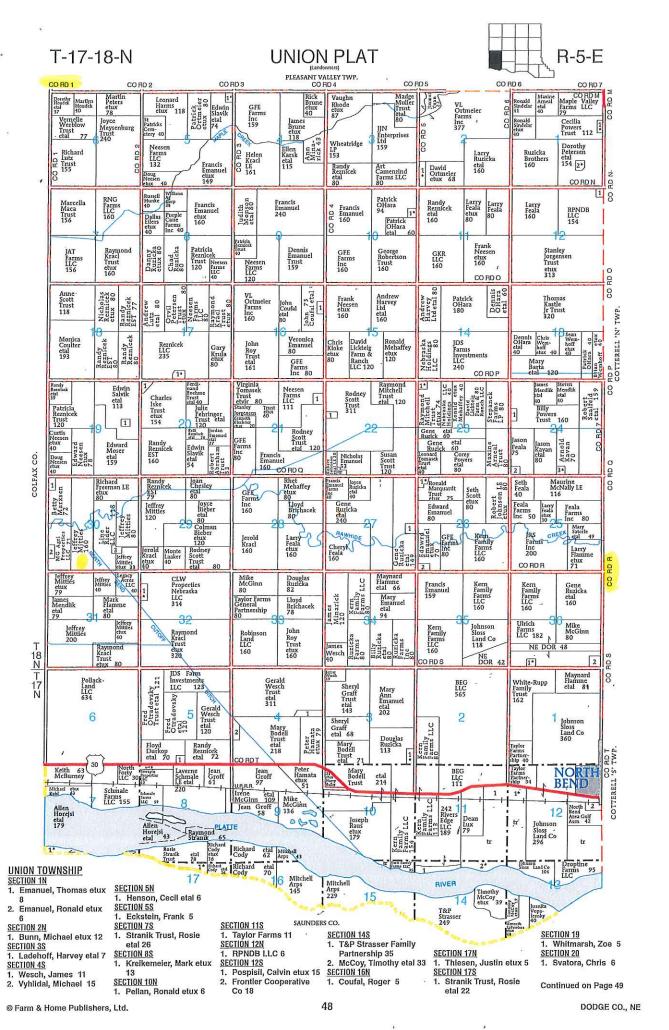
LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
AL CHIOTENNIA				
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	đBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

Page 3 of 4

TOPO Map for ASN 2017-ACE-6825-OE



Page 4 of 4



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2	

DODGE COUNTY BUILDING INSPECTION & ZONING DEPARTMENT

JEAN ANDREWS, Zoning Administrator

Courthouse - 435 N. Park, Room 204 Fremont, Nebraska 68025 Phone: (402) 727-2724

February 8, 2019

Dear Property Owner:

You are hereby notified that the Dodge County Planning Commission will hold a public hearing on Tuesday, February 19, 2019 at 4:30 P.M. in the Dodge County Board of Supervisors Room, 3rd Floor, Dodge County Courthouse, Fremont, NE 68025 to consider request of Jeffrey Mitties of 1753 County Rd. 2, North Bend, NE 68649 to obtain a Conditional Use Permit to install a 250 ft. Self-Support Tower as per Article 25, **Supplemental District Regulations** Section 4. Radio, Television and Wireless Communication Towers and Facilities located in E ½ SW ¼ Section 30, Township 18 North, Range 5 East in Union Township, Zoning District A-1, Intensive Ag.

The Dodge County Planning Commission will hold a public hearing on this matter at 4:30 P.M., Tuesday, February 19, 2019 in the Board of Supervisors Room, Third Floor of the Courthouse, Fremont, NE. Since your property adjoins the property that is requesting the Conditional Use Permit, it is a requirement that we notify you of such hearing.

If you have any objections or comments of this proposal, please send them in writing to this office or appear at the meeting and express them verbally.

Thank you,

Jean Andrews,

Dodge County Zoning Administrator



DODGE COUNTY TITLE & ESCROW CO., LLC 549 NORTH MAIN STREET,

S49 NORTH MAIN STREET,
FREMONT, NE 68025
402-721-5833

NAME AND ADDRESS SEARCH

Request Made By: Nevco Wireless

We, DODGE COUNTY TITLE & ESCROW CO., L.L.C., hereby certify that we have checked the records of the County Assessor of Dodge County, Nebraska, for the purpose of presenting a list to the Zoning the County Assessor of Dodge County, Nebraska, for the purpose of presenting a list to the Zoning Administrator of said County and find the following named persons are the property owners of land adjoining the property described as:

The East Half of the Southwest Quarter, Section 30, Township 18 North, Range 5, North Bend, Nebraska East of the 6th P.M., Dodge County, Nebraska.

The list of names and addresses include all property owners within 300 feet of said property:

M-G Agri Properties LLC Harding & Carbone 3903 Bellaire Blvd Houston, TX 77025-0000	NW1/4SW1/4 & TL 4	30-18-5
Garrett W. Bradford PO Box 1921 Fremont, NE 68026-1921	TL 11	30-18-5
Doug & Beckie Neesen 42368 Vista Rdg Parker, CO 80138-4547	SW/4SW/4	19-18-5
Edward J & Louanna M. Neesen 1270 Road 16 Rogers, NE 68659	E/2SW/4	19-18-5
Edward John Moser ETAL Mary Bodell 2564 CR 12 Fremont, NE 68025	S/2SE/4	19-18-5
Richard Freeman Maureen Freeman-Caddy, TR 1121 Hwy 30 North Bend, NE 68649	N/2NE/4	30-18-5
Line Rider LLC PO Box 130 North Bend, NE 68649-0130	SW/4NE/4 & TL 8	30-18-5



Cottonwood Tree Properties, LLC Karen Bowman 1903 N Somers Fremont, NE 68025	TL 5 & 9	30-
Jerald D & Leona H. Kracl 911 E 22nd St. Schuyler, NE 68661	SW/4SW/4	29-
Legacy Acres LLC David J. Cerny - Member 305 S Chestnut Norfolk, NE 68701	NE/4NE/4	31-
Mark D. Flamme ETAL 1771 HWY 79 North Bend, NE 68649	S/2NE/4	31-
James A. Mendlik, ETAL 4214 N 195th Elkhorn, NE 68022	S/2NW/4	31-
Randy G. Reznicek, Est 1571 CO RD 2 North Bend, NE 68649	NE/4NW/4 & TL1	29-
Joan Chesley & Janet Werner 2011 CO RD 9 North Bend, NE 68649	N/2NE/4	29-
Joyce Mares Bieber, ETAL 6552 Country Links Pl Columbus, NE 68601	S/2NE/4	29-
Colman & Joyce M Bieber 6552 Country Links Pl Columbus, NE 68601	N/2SE/4, NE/4SW/4	29-
Monte Laaker PO Box 940 Fremont, NE 68026-0940	W/2SE/4SW/4	29-
CLW Properties Nebraska, LLC 14301 FNB PKWY STE 115 Omaha, NE 68154	PT NW/4, W/2W/2NE/4	32-
Sucha Family L.P. PO Box 583 Schuyler, NE 68661-0583	E/2SE/4	24-

Debra M. Papa 1551 44th Road Bellwood, NE 68659	N/2NE/4	25-18-4
Richard A. & Nicole L. Glodowski 985 Co Rd 19 Rogers, NE 68659	SE/4NE/4	25-18-4
M-G Agri Properties, LLC US Trust, Bank of America c/o Harding & Carbone 1235 North Loop West, STE 205 Houston, TX 77008	SE/4	25-18-4
M-G Agri Properties, LLC US Trust, Bank of America c/o Harding & Carbone 1235 North Loop West, STE 205 Houston, TX 77008	N/2NE/4 & SW/4NE/4	36-18-4
Evelyn I. Hovenden, ETAL 2307 Phelps Avenue Fremont, NE 68025	SE/4NE/4	36-18-4

The liability of Dodge County Title & Escrow Co. is limited to the information available in the office of the County Assessor and in no way extends to the correctness of the fee simple title to subject property. A certified search of the records or a Title Insurance Policy would be required to assure the fee simple ownership and any existing liens.

Dated: January 14, 2019

DODGE COUNTY TITLE & ESCROW CO., L.L.C.

Registered Abstracter
Certificate No. 147
Order No. 100055 Order No. 190058

VICINITY MAP SITE LOCATION



HV 1 3 27 - NEO5 - ROGERS **NEW BUILD**



GENERAL LOCATION

DRIVING DIRECTIONS

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN NEBRASKA DIGGERS HOTLINE OF NEBRASKA

SIT OR 1-800-33 1-5666
SECTIONS 76-2301 TO 76-2330 KNOWN AS THE ONE-CALL NOTIFICATION SYSTEM ACT REQUIRES MIN. 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE.

APPROVALS CONSTRUCTION MANAG DESIGN ENGINEER: REAL ESTATE MANAGER: PROJECT INFORMATION

SHEET INDEX

GEHERAL: T-1 TITLE SHEET

- A-I ELEVATION
 A-2 OVERALL SITE PLAN WITH AERIAL
 A-3 OVERALL SITE PLAN
 A-5 ENARGED SITE PLAN
 A-5 ENARGED SITE PLAN
 A-5 AITENINA SCHEDULE
 A-6 AITENINA LAYOUT
 A-7 SITE PHOTOS

GROUHDING:

G-1 GROUNDING PLAN

UTILITY:

E-I UTILITY PLAN E-2 UTILITY RACK DETAILS

HOTES: SP-1 SPECIFICATIONS SP-2 SPECIFICATIONS SITE DATA:

HORVATH SITE HUMBER: HV | 327

VERIZON SITE HAME: NEOS - ROGERS

ADDRESS: COUNTY ROAD R \$ COUNTY ROAD 19 NORTH BEILD, NE 65649 DODGE COUNTY

IA COORDINATES:

IATITUDE: II 41°.29'.47.91" HAD 83

LONGITUDE: W 96".54'.00.94" NAD 83

GROUND ELEV: 130G FT NAVD 88

LAID O'MIER: MITTLES CONTACT: JEFFREY MITTLES 1753 CO RD 2 NORTH BEID, HE 63649 PH.: (402) 652-6769

TOWER OWNER: HORVATH COMMUNICATIONS CONTACT: SHAUNA ADAIR PH.: (574) 237-0464

LESSEE: VERIZON WARELESS 10301 BUSH LAKE ROAD BLOOMINGTON, MIN 5543B CONTACT: KATIE POSER PH.: (952) 946-4756

POWER PROVIDER: OMAHA PUBLIC POWER DISTRICT (OPPD)

TELCO PROVIDER: CENTURYUNK PH.: (800) 244-1111

SITE ACQUISITION: NEVCO WRELFSS CONTACT: JEFFREY SKINNER PH.: (515) 299-0736

RF EIIGINEER: VERIZON WRELESS CONTACT: RYAN MUELLER PH.: (402) 613-0436

CONSTRUCTION ENGINEER: HORVATH COMMUNICATIONS CONTACT: JEFF DELAUDER PH.: (517) 294-9462

CONSULTING ENGINEER: RAMAKER 4 ASSOCIATES, INC. CONTACT: STEVE WIDEEN PH.: (608) 643-4100 EMAIL: swideen@ramaker.com

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10	V10/15	FINAL CO		
r	DATE	DESCRIPTION		
23	REV A	V.	DATE	10/15/2018
DUCCT	TITLE			
	HV	1327	- NEO	5
	114			J -
		ROG	ERS	

RAMAKER & ASSOCIATES, INC. 855 Community Dr. Sauk City, WI 53583 608-643-4100 www.Ramaker.com Sauk City, WI • Willmar, MN Voodcliff Lake, NJ • Bayamon, PR

CORVATH ON THE PROPERTY OF THE

312 W. COLFAX AVE., SOUTH BEND IN 4660 PHONE: (574) 237-0464

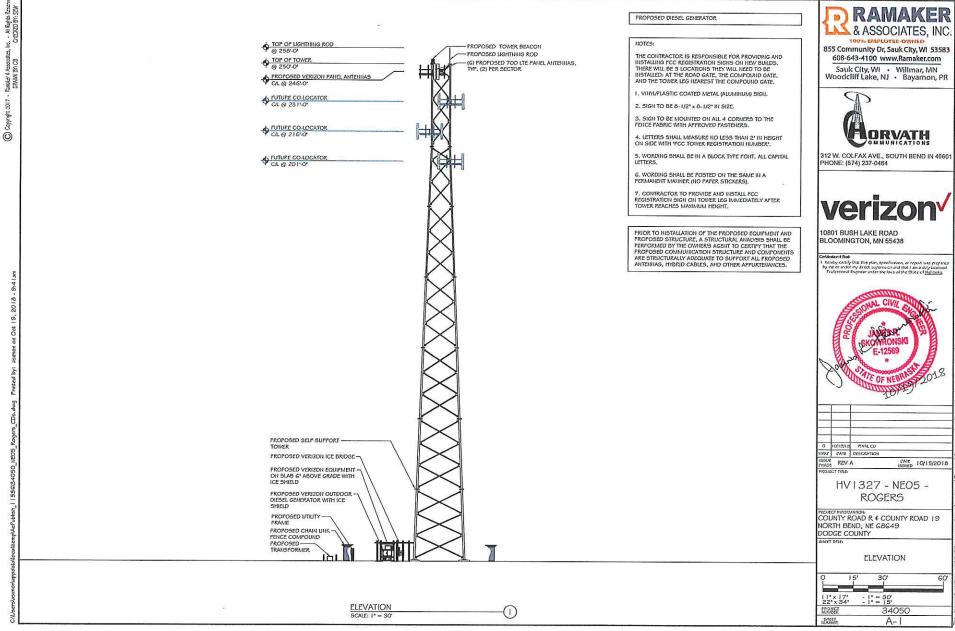
10801 BUSH LAKE ROAD

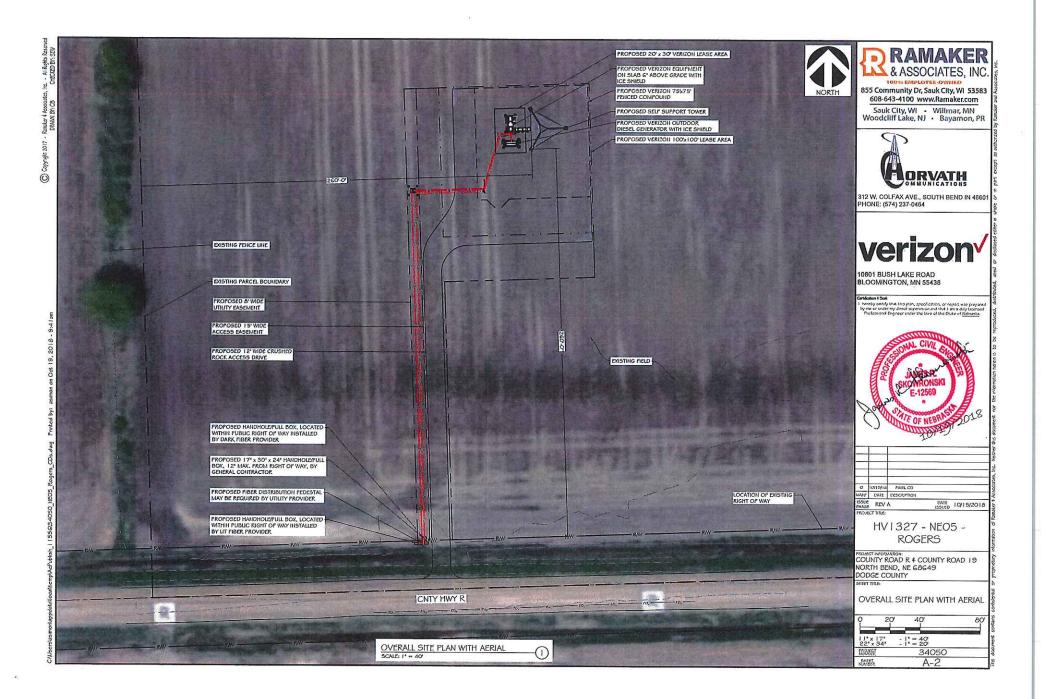
BLOOMINGTON, MN 55438

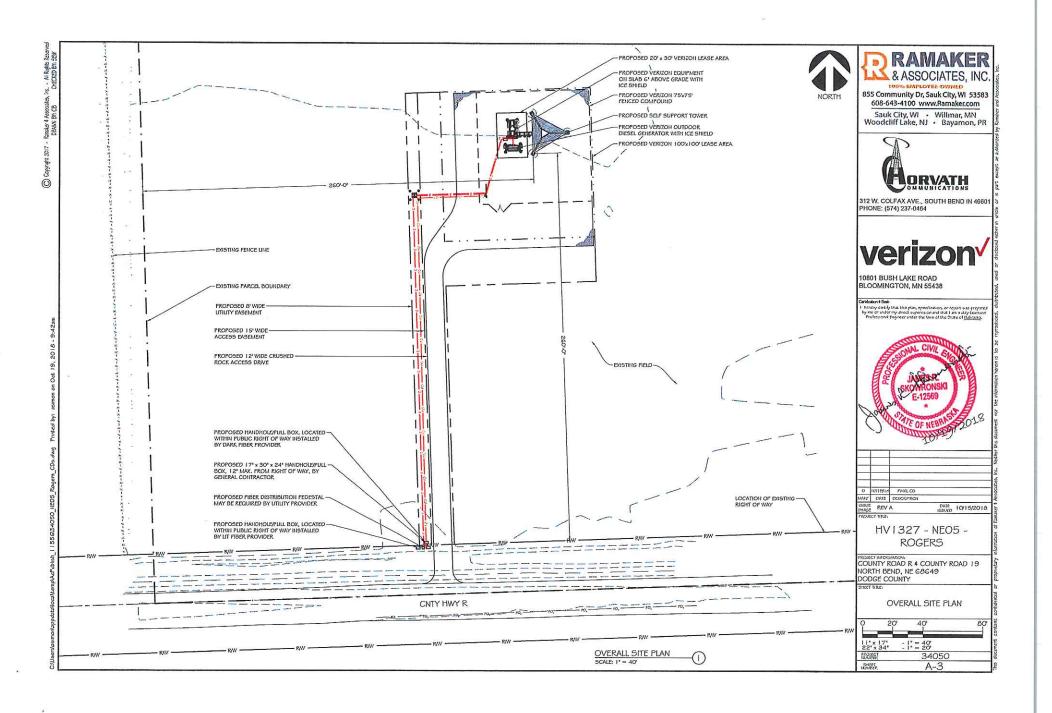
PROJECT PAPOSINATIONS
COUNTY ROAD R ¢ COUNTY ROAD 19
NORTH BEND, NE G8G49
DODGE COUNTY
SHETTING TITLE SHEET SCALE: NONE

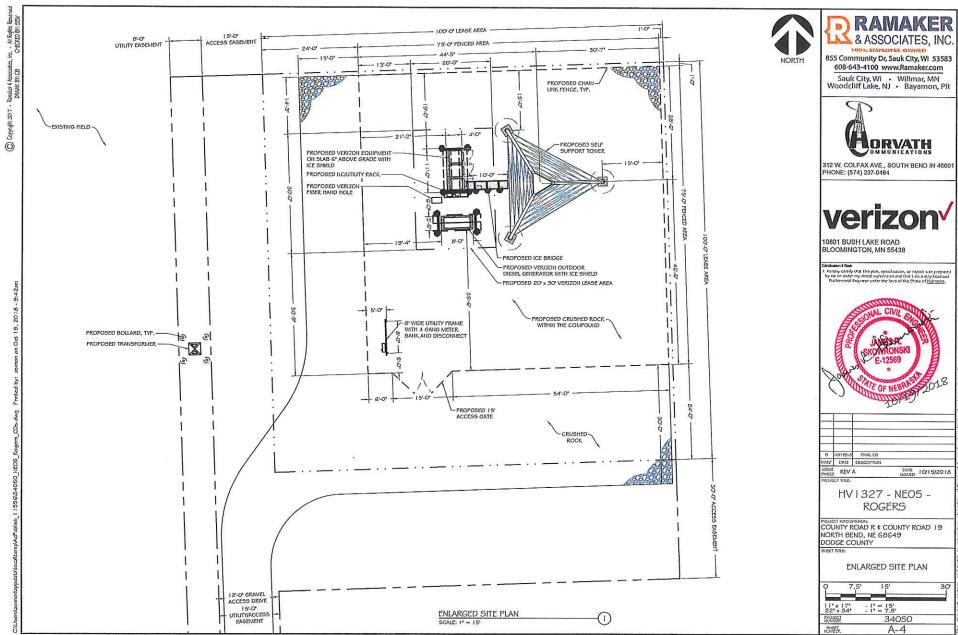
34050











7.5' | 5' | 22''x 34' - 1' = 7.5' | 34050 | A-4

A	ZIMUTH	POSITION					0.00							L			COAVHYBRI	D KEY				1	EQUI	PMENT KE	Y																
		robinon	FUNCTION	QTY.	MANUFACTURER	MODEL	MOD. TYPE	ANTENNA LENGTH	ANTENNA TIP	ANTENNA CENTER	ELECTRIC D.T.	MECH. D.T.	STATUS	QTY.	TYPE	MANUFACTURER	MODEL	DIELECTRIC	DIA.	RUN	STATUS	QTY	MAKE	MODEL	STATUS																
		1.1	טעקעד				700 LIE							1	JUMPER	COMMISCORE	hFT412-4529	назар	0.62*	15	19,010550	-																			
	- 1	1.2	TXXXI				asoure				TPD			2	JUNEER	NIDREW	LET'4-50A	roms	1/2"	C	PROPOSED	1	EPICSSON	FRUS 4449	PROPOSED																
	60°	1.3	SEAL FORT			0.0000000000000000000000000000000000000			150000	100000				200		200.0000000		2012046	VASSAGO	2980																					
- 1	~ }	64	SEAL PORT		COMMISCORE	MM1-GSC-R2B	TUTUTE	er	250	246	TED	O*	PROPOSED	3.	JUMPER.	COMMSCORE	HFT412-4520	IMBAID	0.62*	15	FUTURE																				
	1	1.8	SEAL FORT		1		AVAS LTY				1662			7028	TO A BURN	100000000	188990	76				ERDESSON	PFU3 8343	FUTURE																	
ALPHA	-	1.6	SEAL FORT											4	JUMPER	ANDREW	UP4-50A	FOAM	1/2!	a	TUTURE																				
ECTOR		2,1	TXRX2				700 LTE				100																														
- 1	1	2.2	10003		1		ecoute	i.			100			2	AMPER	ANDREW	FD44-207	MON	1/2*	10	PROPOSED	1.50	ERGSSON	EXUS 4449																	
- 1	60"	2.3	SEAL PORT	1	COMMECORE	NHH-GSC-R28		ø	250	240		O.	PYCHOSCO				-																								
- 1	L	2.4	SEAL PORT	1000	TOP TOP TO SECURE	mar-630-320	runure		250	250 240			Tructusco"					1 1		1 1	1																				
- 1	L	2.5	SEAL PORT				PCSLTE				TBD			4	AMPER,	ANDREW	IDF4-5GA	LDF4-5GA FOAM 1/2" C			FUTURE	36	EFICSSON	RRUS 6643 -																	
		2.5	SEAL PORT																1					- 1																	
		6.0	TWENO				700 LTE							1	MAR	OOMMSOORE	HFT412-4529	HYEFUD	0.62*	19	##IDFOSED																				
1	L	1.2	TAPXI		1		850 LTE				מטד			2	AMPER	HIDREW	U0#4-50%	FOAM	1/2"	e	FROPOSKO	1	ERICSECN	RPUS 4449	PROPOSED																
- 1	157	1.3	SEAL FORT	-1	COMMISCORE	Min GSC-R28		6'		157 240		-	Carlo Carlo State Co.			400 V 800 V 000		0.00000	0.00000	100-	2000000																				
	-	1,4	SEAL FORT		Somoont	1881-655-420	FURNIE		250		тио	0"	PROPOSED		JUNEA.	COANISCOTE HFT412-4529	hFT412-4529	HYDAD	0.65	15	FUTURE																				
- 1	L	1.5	SEAL FORT				AWS LTC				100			72	CHANGES I	125500.7	une s en s					1 1	ENCSSON	RPUS 6543	PUTURE																
BETA TOR		1.6	SEAL FORT											4	LAPER	ANDREW	LEFA-50A	FOAM	1/25	c	FUTURE																				
CTOR		2.1	TXRX2				700 LTE																																		
- 1		2.2	TV/FX3				esoure				THO			2	JULTER	AICREW	LDF4-50A	FOAM	1/2*	10	FP:0F05£0	3:	ERICOSON	PFU3 4449	8																
- 1	160*	6.5	SEAL PORT	a	COMMEDGE	Mtt1-65C-R28																	_																		
	,	2.4	SEAL FORT	.	COMMISCORE	WIN1-69C-K28	FUTURE	ð	250	246		0,	PROPOSED.									1																			
	1	2.5	SEAL PORT				FCS LTE	- 1																				150			4	4 AMPER, AUDREW LDF	LDF4-50A	FOAM 1/2" G		e	FLYTURE	2.	FRICSSON	PRUS 8843	
		5.6	SEAL FORT											1																											
		1.1	TAPAO				700 UTE			:				1	JUNTER	CONNECORE	H21412-4520	HURSTO	0.62*	15	PROPOSED		_		-																
		1.2	TARXI				650 LIE				TED			2	IUMPER	AVEREW	LEF4-SOA	FOAM	1/2"	6	PROPOSED	1	ERICOSON	FXU5 4449	PEOPOSED																
	300*	1,3	SEAL FORE	. 1		1000000000000		200		246		1			Charles Co.				-	-																					
	330	1.4	SEAL PORT	1	COMMSCORE	HHH-GSC-R2B	future	0	250			C)	FROFOSED		A PLAYER	COMMISCORE	HFT412-4529	HUBBUD	0.62	15	FUTURE																				
		1.5	SEAL PORT				AWS LITE	- 1			TED									_		1	EXCSEGN	REUS 8543	PUTURE																
WINA GTOR		1.6	SEAL PORT											4	JUNEA.	ANDREW	U074-50A	FORM	112	e	FUTURE																				
STOR		2.1	Diccs				700 LTE																																		
		2.2	DOORS				650 LTE				100			2	29,855	ANDREW	LDF4-50A	POAM	172*	10	rkonosto		enceson.	EXLIS 4449	- E																
		2.3	SEAL PORT		100000000000	AND DESCRIPTION OF THE PARTY OF			100000											-					_																
	300*	2.4	SEAL FORT	2	COMMISCORE	M#1-65C-R2B		8	250	246		0,	FROPOSED																												
		2.5	EEAL PORT				PUTURE PGS LTC				тео			4	DINGER.	AHDPEW	LDP4-FOA	FOAM	1/2"	e	ruture		(F)CSSON	FRUS 8843	120																
		2.6	SCAL PORT		1			- 1																																	

ADDITIONAL:
(2) RAYCAP RCMDC-6627-FF-4B DISTRIBUTION BOX - (1) ON TOWER & (1) AT EQUIPMENT
(1) HYBRID CABLE (EQUIPMENT DISTRIBUTION BOX TO TOWER DISTRIBUTION BOX) COMMSCOPE HFT I 206-24949 - 270
(3) EXICSSON RRUS 4449

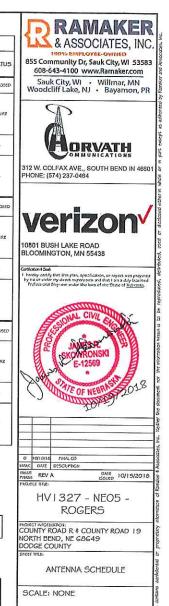
FUTURE:
(1) THRID CABLE (EQUIPMENT DISTRIBUTION BOX TO TOWER DISTRIBUTION BOX) COMMSCOPE HFT1206-24549 - 270'
(3) PRICSSON RRUS 8843

		PR	OPOSED JUMPER	R TOTALS			
12	JUMPER	WERDIN	LDF4-5GA	FOAM	172*	10	PROPOSED
3	MAPER	COMMSCOPE	HFT412-4329	merio	0.62*	19	PROPOSED
24	JUNPER	AHOPEW	LDP4-50A	FOAM	172"	10	FUTURE
3	JUNTER	COMMECOPE	H/T412-4829	INERID	0.62*	15	FUTURE

CONTRACTOR IS TO CONTACT RI ENGINEER FOR THE MOST RECENT SDF/SMR FOR FINAL ELECTRICAL AND MECHANICAL DT SETTINGS

ANTENNA SCHEDULE

ESTIMATED MAIN LINE HYBRID LENGTH								
ICE BRIDGE LENGTH (±)	AHTENNA CENTERUNE (±)	EXTRA	TOTAL (±)					
10'	246'	14'	270'					

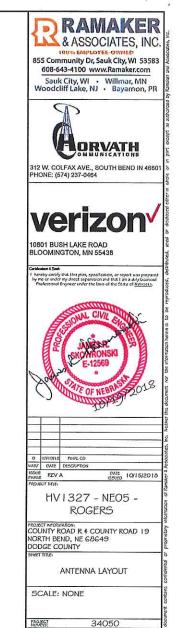


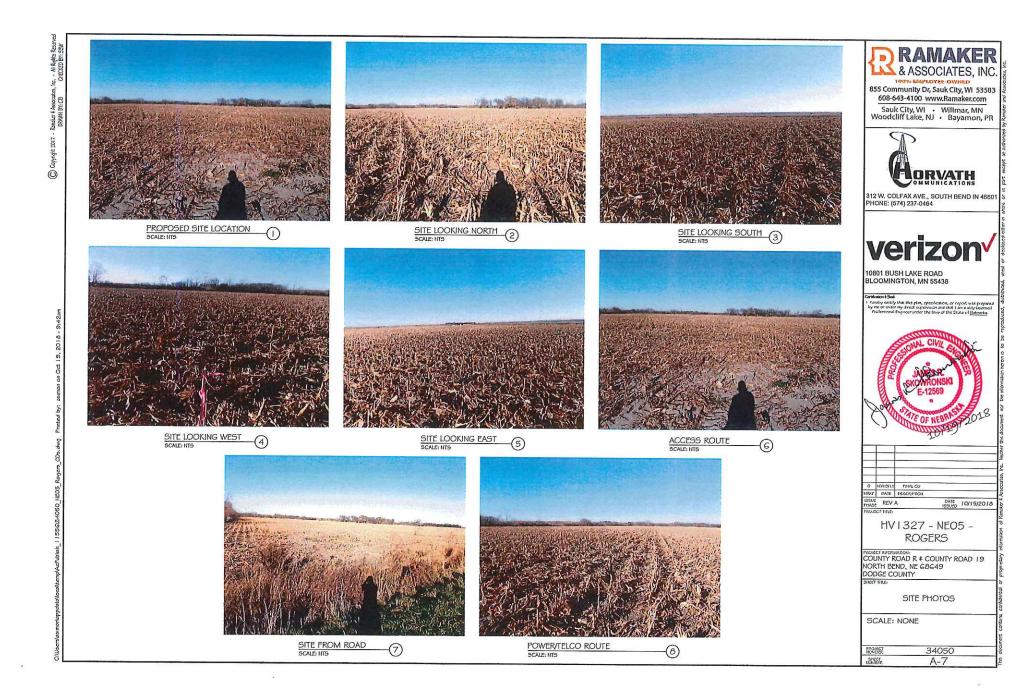
RAMAKER & ASSOCIATES, INC. 100% EMPLOYEE - OWNED

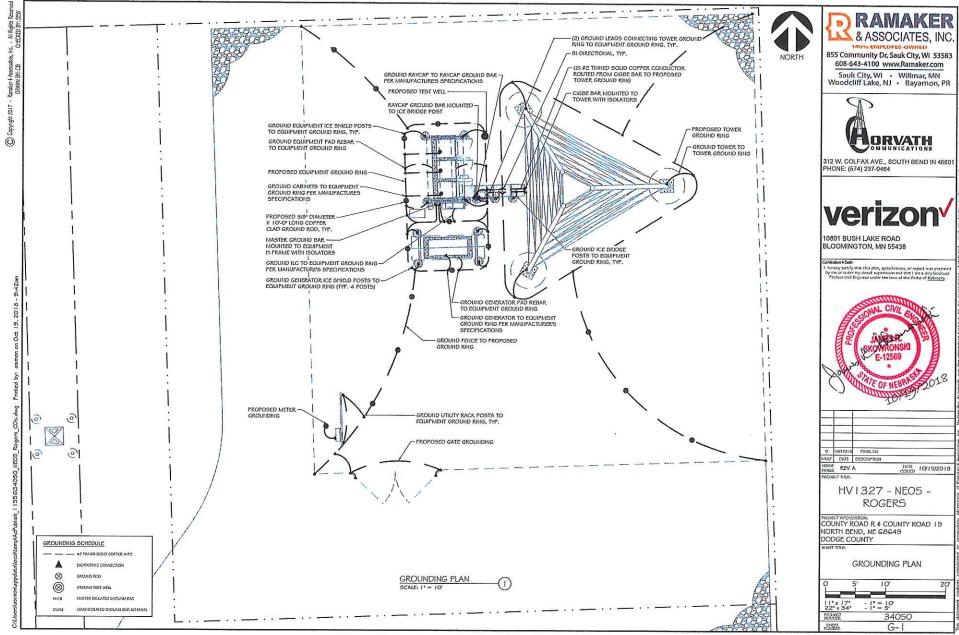
855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com

Sauk City, WI - Willmar, MN

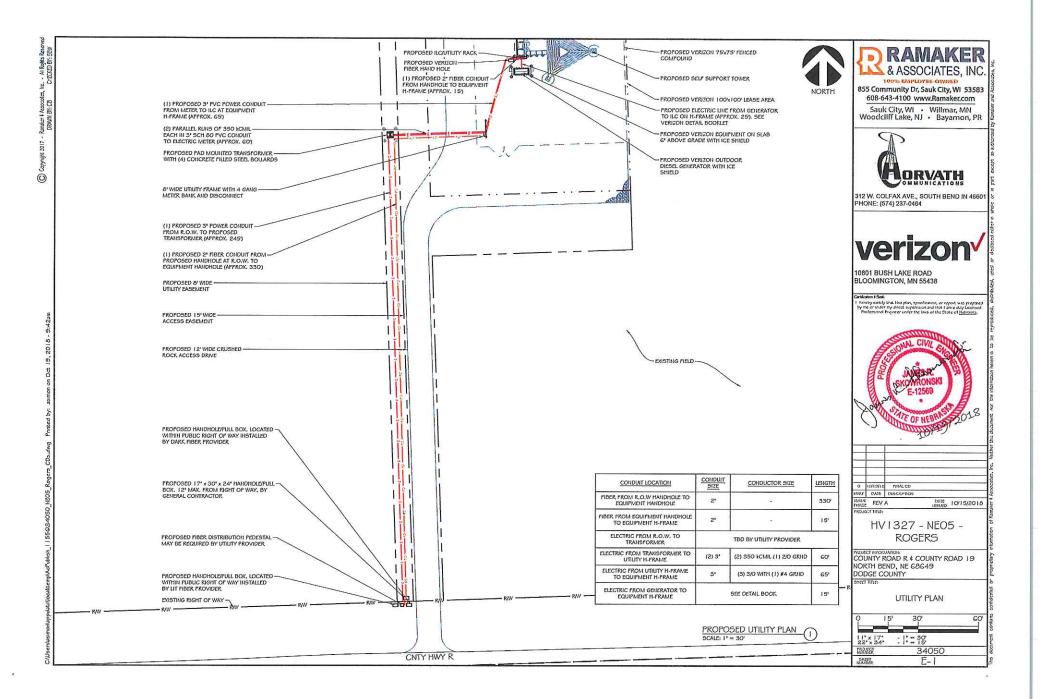
Woodcliff Lake, NJ - Bayamon, PR **CORYATH** 312 W. COLFAX AVE., SOUTH BEND IN 466 PHONE: (574) 237-0464 verizon 10801 BUSH LAKE ROAD BLOOMINGTON, MN 55438 (3) PROPOSED 700 LTE RRUS, -TYP. OF (1) PER SECTOR (6) Proposed 700 LTE Panel Antennas. Typ. of (2) per sector — (3) future aws/future pcs lte Rrus, Typ. of (1) per sector SELF SUFPORT TOWER O IONIONIA PIUL CO
MAST DATE DESCRIPTION
1550E REV A
PROJECT TILE: — (3) PROPOSED COMMSCOPE #B5AMNT-8B5-1-2 WITH B5AMNT-4 DUAL-MOUNT ANTENIA BRACKET TO BE PROVIDED AND INSTALLED BY CONTRACTOR, TYP. OF (1) PER SECTOR, NO SUBSTITUTIONS DATE 10/15/2018 HV1327 - NEO5 -**ROGERS** FROMET INFORMATION:
COUNTY ROAD R & COUNTY ROAD 19
NORTH BEND, NE 68649
DODGE COUNTY
SHEET TIME: ANTENNA LAYOUT SCALE: NONE ANTENNA LAYOUT -(1) 34050 A-6

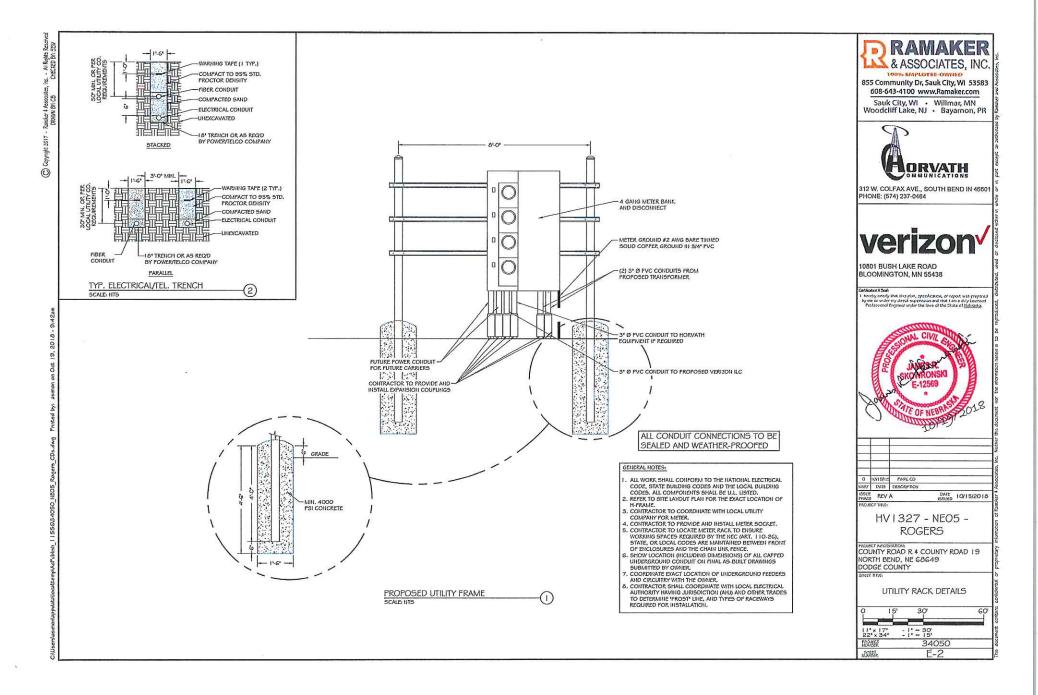












GENERAL HOTES

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. ALL EQUIPMENT FURNISHED AND WORK PERFORMED UNDER THE CONTRACT DOCUMENTS SHALL BE GUARANTEED AGAINST DEFECTS IN MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, UNLESS NOTED OTHERWISE. AN FAILURE OF EQUIPMENT OR WORK DUE TO DEFECTS IN MATERIALS WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO

WORDANISHIP SHALL BE CORRECTED BY THE COHTRACTOR AT NO COST TO THE OWNER.

2. ALL WORK, MATERIAL, AND EQUIPMENT SHALL COMPLY WITH ALL REQUIREMENTS OF THE LATEST EDMINISH AND INTERMEM AMBIDMENTS OF THE LATEST EDMINISH AND THE LATEST EDMINISH AND INTERMEDIATE OF THE LATEST EDMINISH AND THE LATEST EDMINISH AND THE LATEST CONTRACT AND THE LATEST AND LOCAL LAWS AND ORDINISHES. ALL ELECTRICAL EQUIPMENT PROVIDED WINDER THIS CONTRACT SHALL BE REW GOKETT WHERE OTHERWISH INTERD AND THE RECOURSEMENTS OF THE MORE VINTED AND THE RECOURSEMENTS OF THE MORE THEM. AND THE CONTRACT DESDEVE THE RIGHT OF REPORT AND THE MORTH OF THE CONTRACT DOCUMENTS. INTEREMENT OF MATERIALS WHICH IN INS OPHIOLISM AND BEFORE OR ATTER HISTALLATION AND THE COURT SHALL BE REFLACED WITH EQUIPMENT SHALL BE REFLACED WITH EQUIPMENT OF THE RECOURSELED SO THE RECO

THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT NO COST TO

THE CONTRACT DOCUMENTS BY THE CONTRACTOR AT 10 COST TO THE OWIRE OR HIS ARCHITECT/PHIGHIERE.

THE CONTRACTOR SHALL SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED, CONTRACTOR IS SOLETY RESPONSIBLE FOR THE PROTECTION OF ANY EXISTING STRUCTURES DURING CONSTRUCTION. PIELD VERBY ALL DISTRING DIMENSIONS WHICH AFFECT THE HISW CONSTRUCTION.

THE CONTRACTOR SHALL HOT ALLOW OR CAUSE ANY OF THE WORK.
TO BE COVERED UP OR BICLOSED WHILL IT HAS SETSI INSPECTED BY THE CONTRACTOR.

TO BE COVERED UP OR BICLOSED UNITL IT HAS BEEN INSPECTED OF THE GOVERNING AUTHORITIES. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNICOVERDD AT THE CONTRACTORS EXPENSE, AFTER IT HAS BEEN INSPECTED. THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONTROL OF A WIND ANY OF THE CONTRACTOR ALL DOSTING UTILITYS. FACILITIES, CONTROL SHID THEIR DAMIDISONS SHOWN ON PLAIS HAVE DEED FLOTTED FROM DAMIDISONS SHOWN ON PLAIS HAVE DEED FLOTTED FROM ASSUME NO RESPONSIBILITY WHAT DEVINE ON THE PLAISE THE ACCURACY OF THE MICHAEL SHOWN OF THE PLAISE THE PLAISE.

ASSUME NO RESPONSIBILITY WHATEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE HIPONANTION SHOWN ON THE PLANS OR THE MANINER OF THER REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL SAID UTILITIES AND FACILITIES FRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO DOTANI FROM LACH UTILITY COMPANY DETAILED HIFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING AFFECTED UTILITIES.

CONTRACTOR SHALL FIELD VERDY ALL EXISTING UTILITIES BOTH HONOCHTALLY AND VERTICALLY FRUEN OF SHALE OF CONTRACTOR SHALL FIELD VERDY AS THE PROPERTY OF THE PROJECT MANAGER FOR ESSOLITION AND METHOD SHALL DE INMEDIATIVE REPORTED TO THE PROJECT MANAGER FOR RESOLITION AND HISTORICH CONTRACTOR SHALL BE REPORTED TO THE PROJECT MANAGER FOR RESOLITION AND HISTORICH CONTRACTOR SHALL BE REPORTED TO THE PROJECT MANAGER FOR RESOLITION AND HISTORICH CONTRACTOR SHALL BE REPORTED TO THE PROJECT MANAGER THE PROPERTY OF THE PROJECT MANAGER FOR RESOLITION AND HISTORICH CONTRACTOR SHALL BE PERFORMED UTILI DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECTIFICIAL FOR THURSE TO SECURE SUCH HISTORICHOM

THE ARCHITECT/ENGINEER, PAILURE TO SECURE SUCH INSTRUCTION
MEANS CONTRACTOR WILL HAVE WORKED AT HIS OWN RISK AND

MEANS CONTRACTOR WILL HAVE WORKED AT HIS OWN RISK AND DEFENSE.

CONTRACTORS SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT HIS PAPERS, TRASH, DEBRIS, WEEDS, BRUSH OK ANY OTHER DEPOSITS FEAMIN. ALL MATERIALS COLLECTED DURING CLEANING OFFERATIONS SHALL BE PROPERTY DISPOSED OF OFF-SITE BY THE CONTRACTOR. ALL SITE WORK, SHALL BE CAREFULLY COORDINATED BY THE CONTRACTOR WITH LOCAL GAS, ELECTRIC, TELEPHONE, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

OUTRIS CONSTRUCTION, THE CONTRACTOR SHALL AT ALL TIMES MAINTAIN THE UTILITIES OF THE BUILDINGSSTIE WITHOUT HIS MAINTAIN THE UTILITIES OF THE BUILDINGSSTIE WITHOUT HAVE AND ANY TABLE OF THE BUILDINGSSTIE WITHOUT HAVE ON THE STATE OF THE TRANSPORT ON THE PROPERTY ANY RESPONSE.

INTERRUPTION. SHOULD IT BE NECESSARY TO INTERRUPT ANY SERVICE OR UTILITY, THE CONTRACTOR SHALL SECURE PERMISSION IN WRITING FROM THE BUILDING/FROPERTY OWNER FOR SUCH INTERRUPTION, AT LEAST 72 HOURS IN ADVANCE, ANY INTERRUPTION SHALL BE MADE WITH A MINIMUM AMOUNT OF INICONVENIENCE TO THE BUILDINGFROPERSTY OWNER AND ANY SUCH SHUTDOWN TIME SHALL. BE COORDINATED WITH THE BUILDINGFROPERTY OWNER. COMPRETE STOP AS BUILDINGFROPERTY OWNER. COMPRETE STOP AS BUILD DRAWINGS TO VERZION PROJECT

MANAGER.

THIS CONTRACTOR SHALL PROVIDE ALL TEMPORARY WIRING FOR ALL

TRADES FOR CONSTRUCTION EQUIPMENT (I.E. HANDTOOLS,

WELDERS, PIPE BENDERS, ETC.) & CONSTRUCTION LIGHTING PER THE

IATEST
OSHA STAIDARDS, INCLUDE ALL COSTS III THE BASE BID THIS CONTRACTOR SHALL ESTABLISH SAFE WORKING PROCEDURES FOR THE PROTECTION OF THE WORKARE! IN ALL PHASES OF WORK, COMPENSION WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE

COMPAING WITH THE APPLICABLE PROVISIONS OF ALL CITY, STATE AND PEOPERA'S AFETY LAWS (OSHA).
THIS CONTRACTOR SHALL THOROUGHLY FAMILIARIZE HIMSELF MITH EP LAILS AND SHALL VERIPY PEOSITIAS SITE CONDITIONS AT THE JOB SITE BEFORE SUBMITTING BID. PAILURE TO RECOGNIZE WORK. RECOURED HALL BE AT THE EPPRISE OF THIS CONTRACTOR. HO CONSIDERATION SHALL BE GIVEN FOR ADDITIONAL COMPRESSATION.

AFTER THE LETTING OF BIDS.

ENTIRE INSTALLATION SHALL BE PERFORMED IN A FIRST-CLASS

WORKMAN LIKE MANINER AND SHALL CONFORM TO ALL APPLICA WORMAN LIKE MAINER AND SHALL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES. THE COMPLETED SYSTEMS SHALL BE WITH OTHER TRADES IN ORDER TO AVOID INTERFERENCES

PRESERVING MAXIMUM HEADROOM AND AVOID OMISSIONS, ALL MATERIALS WORKMANSHIP AND EQUIPMENT SHALL BE GUARANTEED FOR ONE (1) YEAR AFTER SYSTEM ACCEPTANCE.
ALL MATERIALS USED SHALL BE NEW AND BEAR THE UNL LABEL AND BE OF THE APPROPRIATE HEAR STANDARD.

16. CONTRACTOR SHALL INCLUDE ALL MISCELLANEOUS HEMS REQUIRED TO COMPLETE THE WORK.

17. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL FERMITS AND

REQUIRED HISPECTION FLES,

S. IT SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO
COORDINATE AND REVIEW THE ELECTRICAL CHARACTERISTICS
AMPACTRY AND OTHER REQUIREMENTS OF ALL EQUIPMENT PR

SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR TO COORDINATE THE LOCATIONS OF CONDUIT ROUTING, EQUIPMENT, UGHTING, ETC. WITH ALL OTHER TRADES IN THE FIELD PRIOR TO INSTALLATION.

P. FOR CLARITY OF ALL PLANS, SOME EQUIPMENT CONDUIT AND WARE THE CONTROL SHOWN. IT IS THE RESPONSIBILITY OF THIS CONTROL AND WIKE THES HOUSE. IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO FURNISH AND INSTALL CONFILETE AND OPERATING SYSTEMS INCLUDING ALL CONDUIT AND WIRING, THE CONTRACTOR SHALL MAINTAIN THE FIRE RATED INTEGRITY OF

1. THE CONTRACTOR SHALL MAINTAIN THE PIRE RATED INTEGRITY OF ALL FLOORS, CEILINGS AND WALLS. ALL PERITRATIONS THROUGH FIRE RATED BUILDINGS ELEMENTS SHALL DE EFFECTIVELY SEALED SHING AFFROYED MATERIALS AND INTERIOS. ALL LIGHTING FIXTURES MOUNTED IN FIRE RATED CEILINGS SHALL MAINTAIN THE INTEGRITY OF THE FIRE RATHING CEILINGS USING AFFROYED MATERIALS AND METHODS. REFER TO ARCHITECTURAL DRAWNINGS FOR FIRE RATHINGS.
2. THE CONTRACTOR SHALL INSPECT THE COMPUTET SET OF DRAWNINGS AND SPECIFICATIONS TO DETERMINE HIS BRITE SCOPE OF WORK. THE CONTRACTOR SHALL WISIT THE SITE AND BECOME FAMILIAR WITH THE RESTRING CONTROL SHALL WISIT THE SITE AND BECOME FAMILIAR.

WHIT THE PUSTING CONDITIONS AND EXTENT OF DEMONSTRAIN WHITH THE PUSTING CONDITIONS AND EXTENT OF DEMONSTRAIN AND INSTANCE OF THE PROJECT PRIOR TO SUBMITTING HIS BID. WASTERNIAS OR WORKMANISH FOR A PERIOD OF O'BE (1) YEAR PROJECT HIM. ACCEPTAICE, UNLESS NOTED OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO OTHERWISE. ANY FAILURE OF EQUIPMENT OR WORK DUE TO

OTHERWISE. ANY TAILORS OF WORKMAILSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT 110 COST TO THE OWNER.

THE ELECTRICAL HISTALATION IS TO BE IN STRICT ACCORDANCE WITH THE APPLICABLE RULES AND REGULATIONS OF ALL LOCAL. STATE AND FEDERAL ELECTRICAL CODES AND THE LOCAL UTILITY COMPANY REQUIREMENTS OR ANY OTHER AUTHORITIES HAVING LAWFUL JURISDICTION.

SPECIAL CONSTRUCTION/ANTENNA INSTALLATION

. WORK, INCLUDED:

THE CONTRACTOR SHALL ASSIST ANTENNA INSTALLATION CONTRACTOR IN TERMS OF COORDINATION AND SITE ACCESS. ERECTION SUB-CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF PERSONNICL AND PROPERTY.

INSTALL ANTENIAS AS INDICATED ON DRAWNIGS AND VERIZON SPECIFICATIONS.

C. INSTALL GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED

on drawnigs. Histall furnished galvanized steel and/or tower

E. INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN AUTHILAS AID EQUIPMENT FER MAJURACTURERS
RECOMMENDATIONS, WEATHERFROOT ALL CONTROL OF SETTING STATED. ANTENNA AND COAXIAL CABLE GROUNDING: 1. ALL EXTERIOR #G GREEN GROUND WIRE "DAISY CHAIN"

CONNECTIONS ARE TO BE WEATHER SEALED WITH ANDREW
CONNECTOR/SPLICE WEATHER PROOFING KIT #22 | 2 | 3 OR

EQUAL. ALL COMMAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAMAL CABLE (NOT WITHIN BENDS).

QUALITY ASSURANCE

I. ALL CONTRACTORS FURNISHED MATERIALS AND FOURMENT

ALL CONTRACTIORS PURIISHED MATERIALS AND EQUIPMENT SPECIFIED ON THE PROJECT SHALL BE NEW AND UNUSED, OF CURRENT MANUFACTURER AND OF THE HIGHEST GRADE. ALL ECUIPMENT, MATERIAL AND THE HISTALL THOU METHODS SPECIFIED OIL THE PROJECT DRAWNINGS SHALL BE DESIGNED AND FABRICATED IN COMPLIANCE WITH APPLICABLE PEDERAL, STATE AND LOCAL CODES AND REGULATIONIS AND APPROPRIATE INDUSTRIAL COLISIENS STANDARDS AND CODES INCLUDING AND, IEEE, IRMA, HIPA, AND UL. ALL AS REVISED AS OF THE DATE OF THIS WORK

ALL ELECTRICAL ITEMS BOTH CONTRACTOR AND OWNER FURNISHED AND SPECIFICATIONS AND SHALL BE VISUALLY HISPECTED TO ENSURE THAT EQUIPMENT IS UNDAMAGED AND IS IN PROPER ALIGNABIT. INSTALLED PER MANUFACTURER'S INSTRUCTIONS, ELECTRICAL INSTALLED PER MANUFACTURERS INSTRUCTIONS, ELECTRICAL CONNECTIONS ART TIGHT AND PROPERTY INSULATED WHERE REQUIRED. FUSES ARE OF THE PROPER TYPE AND SIZE AND ELECTRICAL FUCLOSURES ARE OF THE FROPER HEM. TYPE. NOTHEY OWNER IN WRITING OF ALL DISCREPANCIES BETWEEN DEAMNINGS/PECFICICATIONS AND PIECD INSTALLATIONS, OR IF THE

VISUAL INSPECTIONS SHOW DAMAGE OR IMPROPER INSTALLATION.
GENERAL: DURING AND UPON COMPLETION OF THE WORK, ARRANGE

AND PAY ALL ASSOCIATED INSPECTIONS OF ALL ELECTRICAL WORK INSTALLED UNDER THIS CONTRACT. IN ACCORDANCE WITH THE CONDITIONS OF THE CONTRACT

INSPECTIONS REQUIRED: AS PER THE LAWS AND REGULATIONS OF THE LOCAL AND/OR STATE AGRICIES HAVING JURISDICTION AT THE PROJECT SITE. AGENCY: APPROVED BY THE LOCAL AND/OR STATE

CABLE TRAYS

I. ALL CABLE TRAYS AND FITTINGS SHALL BE DESIGNED, MANUFACTURED AND TESTED IN CONFORMANCE WITH HEMA VE 1.

CABLE TRAYS SHALL BE LADDER TYPE WITH 9-INCH SPACING.

CABLE TRAYS SHALL BE CAPABLE OF SUPPORTING 75 LBS/LIN

I. CABLE TRAYS AND FITTINGS SHALL BE MANUFACTURED OF

GALVANIZED STEEL.
CABLE TRAYS SHALL BE FURNISHED WITH COVERS WHERE SHOWN ON THE PROJECT DRAWINGS. INE PROJECT DRAWNIGS.

G. ALL DISCONTINUOUS SECTIONS OF CABLE TRAY SHALL BE BONDED ACROSS JOINTS.

CONDUCTOR5

CONDUCTORS

1. ALL POWER. CONTROL AND COMMUNICATION WIRING SHALL MEET REQUIRED HEMA FATHINGS, ASTM, UL, AND NEC STANDARDS FOR MATERIAL AND WORKMANISHIP UNILESS OTHERWISE SPECIFIED.

A. SERVICE DITENANCE CONDUCTORS SHALL DE COPPER, 200 VOLT, SUNLIGHT RESISTANT, SUITABLE FOR WET LOCATIONS, TYPE USE-2. THE OROUNDED HEUTRAL CONDUCTOR SHALL DE IDEMTRIED WITH A WHITE MARRING AT EACH TERMINATION.

B. CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS SHALL DE COPPER 200 VOLT, TYPE THRIMTHMI WITH A MINIMUM SIZE OF \$12 RWG.

2. ALL CONDUCTORS FOR FEEDER AND BRANCH CIRCUITS SHALL DE COPPER 200 VOLT, TYPE THRIMTHMI WITH A MINIMUM SIZE OF \$12 RWG.

2. ALL CONDUCTORS FOR SCHES INCLUDING CONNECTORS, MARKER PROBLEMENT OF THE PROPERTY OF THE PROPERTY OF THE PROSPESSION OF THE CRATISMAN WHILE HISTALLING THE ACCESSORIES AND SHALL BE INTER POSSESSION OF THE CRATISMAN WHILE HISTALLING THE ACCESSORIES AND SHALL BE COMPRESSED OF THE CONFESSION OF THE CRATISMAN WHILE HISTALLING THE ACCESSORIES AND SHALL BE COMPRESSED OF THE CONFIDENCE OF THE CONDUCTOR AND THE TERMINAL. THE CONNECTORS SHELP FOR THE CONDUCTOR AND THE TERMINAL THE CONNECTORS SHELP FOR THE CONSTRUCTED OF FINE GROUP HIGH CONDUCTORYS SHALL BE CONFESSION OF THE CREATED HIS ACCESSORIES AND SHALL BE INTERCATED OF THE CONDUCTOR AND THE TERMINAL THE CONNECTORS SHELP FOR THE CONSTRUCTED OF FINE GROUP HIGH CONDUCTORYS SHEAL DE CONFESSION OF THE CONNECTOR WIRE BEARER, SHALL DE TREOVIDE OF THE CONNECTOR WIRE BEARER, SHALL DE TREOVIDED WITH CRANF GUIDES. TERMINAL CONNECTORS FOR CONDUCTORS & AWG AND LARGER

4. TERMINAL CONNECTORS FOR CONDUCTORS & AWE AND LARGER SHALL BE FRESURE OR BOLTED CLAMP TYPE, BURNING VUILLIG, ARIUG OR ACCEPTABLE EQUAL; OR COMPRESSION THEIR BURNING TYPE YAV OFF YA (ONE) BARREL), PANDUT TYPE LCA OR LCC, OR ACCEPTABLE EQUAL. ACCEPTABLE CONNECTORS INCLUDED WITH COMPANY FURNISHED COUPINEM THAY BY USED.

TERMINATION PROVISIONS OF EQUIPMENT FOR CIRCUMS PATED TO AMPERSO FOR LOSS. A TRICKING THE OFF OR CIRCUMS PATED FOR CONDUCTORS AND EXCEPTIONS OF THE CONDUCTORS AND EXCEPTIONS WITH HIGHER TEMPERATURE CONDUCTOR IS DETERMINED BASED ON THE CAMPACTY OF EXCEPTIONS OF THE CONDUCTOR SIZE USED.

TERMINATION PROVISIONS OF FOUNDED THE CAMPACTY OF THE CONDUCTOR SIZE USED.

TERMINATION PROVISIONS OF FOUNDED THE CONDUCTOR SIZE USED.

TERMINATION PROVISIONS OF FOUNDED THE OR CIRCUMS RATED OVER. 100 AMPRESS, OR MARKED FOR CONDUCTORS WERE THAT

ANIPACITY OF THE CONDUCTION SELECTED SELECTION ANIPACITY OF THE CONDUCTION OF COUNTED TO CIRCUITS RATED OVER 100 ANIPERS, OR AMERICA FOR COUNTED FOR ALTER THAN 100 ANIPERS, OR AMERICA FOR COUNTED FAILTY OF DEG. COUNTED THE SHORE OF THE SHO

CODE.

3. ALL UNDERGROUND (BELOW GRADE) GROUNDING COINICETIONS
SHALL BE HADE BY THE CADWILD PROCESS (MECHANICAL LUG
STATACHMENTS BELOW GRADE ARE HOT ACCEPTABLE), CONINCTIONS
SHALL INCLUDE ALL CABLE TO CABLE SPILCES (TEES, Xs. FIC.) ALL
MATERIALS USED (MOLDS), WELDING METLA, TOOLS, ETC.) SHALL BE
BY CADWILD AHD INSTALLED FER JAMUFACTURERS

HANGERS AND SUPPORT

I. MATERIALS: ALL HAIGERS, SUFFORTS, FASTERIERS, AND HARDWAR SHALL BE ZINC COATED OR OF EQUIVALENT CORROSION RESISTAN SHALL BE ZING COATED OK OF EQUIVARIENT CORPOSITION RESIS BY TREATMENT OR INHERENT PROPERTY, AND SHALL BE MANUFACTURED PRODUCTS DESIGNED FOR THE APPLICATION. PRODUCTS FOR OUTDOOR DUES SHALL BE HOT DIP GALVAINIZED 2. TYPES: HAVIGERS, STRAPS, RISER SUPPORTS, CLAMPS, U-CHAI THERADED ROOS, ETC. AS INDICATED OR REQUIRED.

3. IHSTALIATION: RIGIDLY SUPPORT AND SECURE ALL MATERIALS.

RACKWAY AND EQUIPMENT BUILDING STRUCTUPE USING MANGERS, SUPPORTS AND FASTELIES SUITABLE FOR THE USE. MATERIALS AND LOADS ELECUMITERED, REVOIDE ALL NECESSARY HARDWARE. PROVIDE CONDUITED SUPPORTS AT MANMAMM 5 FT. O.S. OVERHEAD MOUNTING: ATTACH OVERHEAD MOUNTING COUNTING TO STRUCTURAL FRAMEWORK OR SUPPORTING METAL FRAMEWORK. SWALL MOUNTING EQUIPMENT OF MASONIKY, CONCRETE BLOCK, METAL FRAMING OR SUB-FRAMING. CYCKNOCK BUILDING WALLS AND LAST ONLY THE HITEROR OF EXTENOR BUILDIN WALLS AT LEAST ONE BIRCH MAY FROM WALL STATE OF THE HITEROR OF EXTENOR BUILDING WALLS AT LEAST ONE BIRCH MAY FROM WALL STATE OF THE HITERORY OF EXTENOR BUILDING WALL AND THE HITERORY OF EXTENOR BUILDING WALLS AND THE OFFICE OF THE WAY FROM WALL STRUCTURED. WE RESERVE OF THE STRUCTURE MEMBERS EN ON OF CUT, DRILL OR, WHED ANY STRUCTUREAL MEMBERS EXCEPT SPECIFICALLY APPROVED BY THE BIGINEER.

EIGHIERE.
HIDEFENDENT SUPPORT: DO NOT SUPPORT MATERIALS OR EQUIPMENT FROM OTHER EQUIPMENT, PIPING, DUCTWORK

SUPPORTS FOR SAME.

SUPPORTS FOR SAME.

RACEWAY SUPPORTS: RIGIDLY SUPPORT ALL RACEWAY WITH MAXIMUM SPACINGS.

RACEWAY SUPPORTS: RIGIDLY SUPPORT ALL RACEWAY WITH MAXIMUM SPACINGS.

RACEWAY SAME RICE. AND SO AS TO PREVEIT DISTORTION OF ALIGIMENT DURING PULLING OPERATION, USE APPROVED HAIGERS, CLAMPS ON THE WIRES. WHERE MULTIPLE PARALLEL RACEWAYS ARE TO RUIL TOCHTIER, USE TERRETE TYPE HAIGER ARRAIGEMENT MADE FROM U-CHAINIEL AND ACCESSORIES.

SUSPEILED FOR FUTURE HISTALIATION OF ADDITIONAL RACEWAYS, RIGIDLY ANCHOR VERTICAL CONDUTS SERVING FLOOR MOUNTED OR.

RIGIDLY ANCHOR VERTICAL CONDUTS SERVING FLOOR MOUNTED OR. RIGIDLY AICHOR VERTICAL CONDUITS SERVING FLOOR MOUNTED ON "ISLAID" THE COURTED THOUSTED MAY FROM WALLS WITH METAL BRACKET OR RIGID STEEL CONDUIT EXTENSION SECURED TO FLOOR. ON INSCILLUISCUS SUPPORTS: PROVIDE ANY ADDITIONAL STRUCTURAL SUPPORT STEEL BRACKETS, ANGLES, FASTENERS, AND HARDWARE AS REQUIRED TO ADEQUATELY SUPPORT ALL ELECTRICAL MATERIALS AND EQUIPMENT. 1. ONE NOLE STRAYS SHALL NOT BE USED FOR CONDUITS LARGER THAIN 374 INCH.

HOLES, SLEEVES AND OPENINGS

1. GEIERAL: FROVIDE ALL HOLES, SLEEVES, AND OPENINGS REQUIRED FOR THE COMPLETION OF WORK AND RESTORE ALL SURFACES DAMAGED TO MARCH SURFACIONIONION SURFACES. MAINTAIN HITEGRITY OF ALL FIRE AND SMOKE RATED BARRIERS USING AFFROVED FIRE-STOPPING SYSTEMS, WHICH CUTTING HOLES OR OPENINGS, OR HISTALINIG SUEEVES. DO NOT CUT, DANAGE OR OUSINGS STRUCTURAL ELEMENTS OR REPROVED INJESS

APPROVED IN WRITING, BY THE PRODECT STRUCTURAL ENGINEER. CONDUIT FEITERATIONS: SIZE CORE DRILLING HOLES SO THAT AN ANHUDA SPACE OF HOT LESS THAN 1/4 HICH AND HOT MORE THAT AN HICH SIZE THAN AROUND THE CONDUIT, FIFE, ETC. WHEN OPENINGS ARE CUT IN LEU O'F COPE DRILLED, PROVIDE SIZEVE IN ROUGH OPENING. SIZE SIZEVES TO PROVIDE AN ANHUDAS SPACE OF HOT LESS THAN 1/4 RICH AND HOT MORE THAN 1 HICH AROUND THE CONDUIT, FIFE, ETC., PATCH AROUND THE SIZEVE TO MATCH SURROUNDING.

SITE WORK

I. THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF THE CONTRACTOR SHALL CALL UTILITIES PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING ACTIVE SERVER, WATER, 68,5 ELECTRIC, AND OTHER UTILITIES WHERE BICCOUNTERED IN THE WORK, SHALL DE PROTECTED AT ALL MINES AND WHERE RECURSED FOR THE PROFER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE PROJECT WHALGER, EXTERME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN PECANATING OR FIRE DRILLING ARCHIVES AND THE DESIGN OF THE PROJECT ACRESS OF THE PROJECT ACRES OF TH

D TO:
FALL PROTECTION
COHINED SPACE
ELECTRICAL SAFETY
TRENCHING AND EXCAVATION

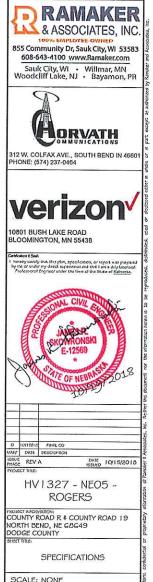
2. REMOVE FROM SITE/OWNER'S PROPERTY ALL WASTE MATERIALS, UNUSED EXCAVATED MATERIAL, INCLUDING MATERIAL CLASSIFIED UNSATISFACTORY, CONTAMINATED OR DANGEROUS TRASH AND DEBRIS, AND DISPOSE OF IN A LEGAL MANNER (AS REQUIRED).

3. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK SHALL BE REMOVED AND/OR CAPPED, PLUGGED OR OTHERWISE DISCONTINUED AT POINTS WHICH MILL HOT INTERFERE WITH THE EXECUTION OF THE WORK, SUBJECT TO THE APPROVAL OF

A THE AREAS OF THE CHAIRES PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE BUILDING OR DRIVEWAY, SHALL BE GRADED TO A UNIFFORM SLOPE, FERTILIZED, SEEDED, AND COVERED WITH MULCH AS REQUIRED TO RESTORE SITE TO ORIGINAL CONTROL OF THE PROPERTY OF THE WORK OF THE PROPERTY OF THE PROPERTY OF THE WORK OF THE WO

5. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE LOCAL AND 1996 BOCA STANDARD GUIDELINES FOR EROSION AND SEDIMENT CONTROL

CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT SHELTER OR PLATFORM LAYOUT AND CONSTRUCTION STAKING. CONTRACT SHALL ESTABLISH GRADE AND LINE STAKES PRIOR TO CONSTRUCTION.



(0)

DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN ACCORDANCE

AND THE STRUCTURAL STEEL SHALL BE AS FOLLOWS:

A STIM AGE, GRADE SE, ROLLED STEEL, RODS, PLATES, U-BOLTS
AND ANCHOR BOLTS.

B. ASTIM ASSZ BOLTS BEARNING TYPE

C. ALL STEEL SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH

ASTM A123.

. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND/OR BRACHING WHERE REQUIRED DURING CONSTRUCTION UNTIL ALL BRACING WHERE REQUIRED DUP CONNECTIONS ARE COMPLETE.

. ANY FIELD CHANGES OR SUBSTITUTIONS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER.

TIGHTEN HIGH STRENGTH BOLTS TO A SHUG TIGHT CONDITION WHERE ALL PUES IN A JOHN ARE IN FIRM CONTACT BY EITHER. A A FEW IMPACTS OF A INPACT WRENCH B. THE FULL EFFORT OF A PERSON USING A SPUD WRENCH

STRUCTURAL STEEL

WELDING
A, ALL WELDING SHALL BE DONE BY CERTIFED WELDERS;
CERTIFICATION DOCUMENTS SHALL BE MADE AWALABLE
FOR RIGHERES ANDOOR OWNERS SEVIEW IF REQUESTED.
B. WELDING ELECTRODES FOR MANUAL SHIELDED METAL ARC
WELDING SHALL CONFORT TO ASTAL A-233 E70 SETES, BARE
ELECTRODES AND GRANILLAR FLUX USED IN THE SUBMIRESED ARC
FROCESS SHALL CONFORT ON AIGS SECTIONATION.
C. RICLD WELDING SHALL DONE AS FER AWS D1, 1
REQUIREMENTS VISUAL INSPECTION IS ACCEPTABLE.

PROTECTION

A. UPON COMPLETION OF ERECTION HISPECT ALL GALVANIZED STEEL AND PAINT ANY FIELD CUTS, WELDS, OR GALVANIZED BREAKS WITH ZINC BASED PAINT (GALVANIOX, DRY GALV OR ZINC ID. COLOR TO MATCH THE GALVANIZING PROCESS.

RACEWAYS

CONDUIT AND CONDUIT FITTINGS SHALL MEET ANSI AND NEC STANDARDS FOR MATERIAL AND WORKMANSHIP AND SHALL BE UL.

A. RIGID STEEL CONDUIT (FOR ALL ABOVE GRADE WORK) SHALL A. RIGIO STEEL CONDUIT (FOR ALL ABOVE GRADE WORK) SHALL CONFORM TO ANSI CEOL AND THE REQUIREMENTS OF NICE PARAGRAPH 3-46 AND BE STANDARD WEIGHT, MILD RIGID STEEL, HOT DIE RAUMANIZEO WITH HISIDE AND OUTSIDE FINISHED WITH A FROTECTIVE ZINC COATING. COUPLING, LEDOWS AND BEILDS SHALL MEET THESE SAME REGUIREMENTS, INTINIOS SHALL BE OF THE GALVANIZEO IRON OR STEEL THEADOED TYPE.

B. FVC CONDUIT (FOR UNDERSKOUND WORD) SHALL CONFORM TO UL STANDARD 6-51-80 AND THE REQUIREMENTS OF NICE. PARAGRAPH 3-47. CONDUIT SHALL BE HEAVY WALL TYPE, SCHEDULE 80, AND SUNLIGHT RESISTANT. FITTINGS SHALL BE OF THE UNTREADED SOLVENT CEMENT TYPE.

C. EMT CONDUIT (FOR USE BEHIND WALLS OR, ABOVE SUSPENDED CELINGS ONLY, ELECTRIC METALLY LET WALLS SHALL DE CONTROM.)

. AMI CONIDUIT (FOR USE BEHIND WALLS OR ABOYE SUSPENDED TECHNIS ON SINCE STALL CONFORM. PLACTERS METALLUC TUBNIS SHALL CONFORM. ANSI CAO.3. AND THE RECUREMENTS OF NEC, PARAGRAPH 3-40 AND BE PROTECTED ON TEXTERS OF NEC, PARAGRAPH 3-40 INTERIOR SURFACES WITH EITHER ALTING COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ALIC COATING OR LACQUER ENAMEL. FITTINGS SHALL BE ALIC COATING OSTEEL.

MINIMUM CONDUIT SIZE SHALL BE 3/4 INCH, SIZES NOT SHOWN ON DRAWINGS SHALL BE PER NEC.

3. ALL SPARE CONDUITS SHALL HAVE A METALLIC OR MULL TAPE

CONDUIT SUPPORTS SHALL BE FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR AND IN ACCORDANCE WITH THE NEC.

S. UNIDERGROUND CONDUITS & ENCLOSURES,
A. INSTALL A WARNING TARE TWEIVE INCHES ABOVE EACH
CONDUIT OR SET OF CONDUITS.
B. IDERTIFY EACH CONDUIT AT BOTH ENDS.
CR. INSTALL A MINIMUM OF SE INCHES BELOW THE FINISHED GRADE.
OR DEFER IF NOTE ON I FLAT DRAWNINGS
D. SLOPE A MINIMUM OF A INCHES PER I OF FEET TO DRAIH AWAY
FROM BUILDINGS AND FEMILES PER I OF FEET TO DRAIH AWAY
FROM BUILDINGS AND FEMILES PER I OF THE TO PRAIT AWAY
AT THE CONTRACTOR SHALL COORDINATE AND CROS

E. USE MANUFACTURED ELECTRICAL PVC FIBOUS AND FITTINGS FOR

LOSE WANDS ALLED TELECTRICAL FVC CEDOWS AND PITTINGS FOR BELOW GRADE BEILDS.

1. MARE JOINTS AND PITTINGS WATERIGHT ACCORDING TO MANUFACTURES HISTRUCTIONS.

6. HISTALLA COUNTING BEFORE FACH WALL PERIETRATION H. RESTORE SUPPLYING PERIORES DISTURBED BY EXCAVATION (AND

TRENCHING) IN ALL AREAS.

I. ENCLOSURES IN ORY LOCATION SHALL BE NEMA 1

J. ENCLOSURES IN WET LOCATIONS OR OUTDOOR SHALL BE NEMA 5.

TELEPHONE SERVICES

GENERAL INSTRUCTIONS SHALL BE IN ACCORDANCE WITH TELEPHONE

LIGHTHING PROTECTION

UGHTNING PROTECTION MATERIAL SHALL BE FURNISHED BY VERIZON AND INSTALLED BY CONTRACTOR.

CONCRETE PART I - GENERAL

WORK INCLUDED FORM WORK, REINFORCEMENT, ACCESSORIES, CAST-IN-PLACE CONCRETE, FINISHING, AND CURING.

DEPARTMENT INSPECTIONS REQUIRED FOR HIS SCOPE OF WORK.

B. ALL REINFORCING STEEL SHALL BE INSPECTED AND APPROVED BY THE CARRER CONSTRUCTION MANAGER, OR THER DESIGNEE, PRIOR TO PLACEMENT OF CONCRETE.

C. THE CARRIER CONSTRUCTION MANAGER SHALL BE NOTIFIED NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS.

1. CUMLITY ASSURANCE
A. COLISTRUCT AND EXECT CONCRETE FORM WORK, IN ACCORDANCE
WITH ACI 301 AND ACI 31.6.
P. FERFORM CONCRETE REHINDORING WORK, IN ACCORDANCE WITH
ACI 301, ACI 31.6, AND ASTM A10.4.
C. FERFORM ACST-IN-PLACE CONCRETE WORK, IN ACCORDANCE WITH
ACI 301, ACI 31.6, AND ACI 117-90.
D. OPEN FOUNDATION TRENCHES SHALL BE INSPECTED BY MES PRIOR
TO CONCRETE INSTALATION.

4. SUBMITTALS: SUBMIT CONCRETE MIX AND REINFORCING STEEL SHOP DRAWINGS FOR APPROVAL BY CARRIER CONSTRUCTION MANAGEREMICHMER. THE SHOP DRAWINGS SHALL BE SUBMITTED IN THE FORM OF TWO (2) CONCRETE MIX DESIGN HIPORAMATION SHEETS AND TWO (2) BLUE LINE DRAWINGS FOR REINFORCING STEEL

PART 2 - PRODUCTS

1. REINFORCEMENT MATERIALS

A. REINFORCEMENT STEEL, ASTM. AG 15, GO IN YIELD GRADE,
DEFORMED BILLET STEEL BARS, FLAIN FINISH.

B. WELDED STEEL WIRE FARRIC ASTM. AI AS PLAIN TYPE, IN FLAT

SHEETS, FLAIN FILLISH.

C. CHAIRS, DOLSTERS, DAR SUPPORTS, SPACERS. SIZED AID SHAFED FOR SUPPORTS OF REHIFORCHIG.

D. PABRICATE COLICRETE REHIFORCHIG III ACCORDANICE WITH ACI 315, ACI 316, ACITA III.

2. CONCRETE MATERIAS

A. CEMERTE MATERIAS

A. CEMERTE ASTM. CI BO, PORTIAID TYPE

D. FINE AND COURSE AGGREGATES ASTM. C33. - MAXIMUM SIZE OF
CONCRETE AGGREGATE SHALL NOT EXCEDE, ONE (24/4) INCH SIZE
SUITABLE FOR INSTALICE SHALL NOT EXCEDE, ONE-THEO
CLEAR DISTALICE BEHIND OR BETWEEN REINFORCHIG,
C. WATER. CLEAN IND HOTO DETERMENTAL TO CONCRETE

D. AIR ENTRAINING ADMIXTURE: ASTM. C260

E. DOLDING AGRITI- LATE ADMISSION FOR BONDING NEW TO OLD
CONCRETE AS MANUFACTURED BY DAYYON SUPPRIOR.

T. NON-SHRINK GROUT: FERENCED COMPONDED CONSISTING OF

NON-SHRINK GROUT: PREMIXED COMPOUND CONSISTING OF HOMEFALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS.

3. CONCRETE MIX

A. CONCRETE MAX

A. CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE

A.C.I. REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.

B. MIX AND DELIVER CONCRETE IN ACCORDANCE WITH ASTM C94.

ALT. 9.

C. PROPORTIONS OF CONCRETE MATERIALS SHALL DE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DIRECTOR DIRECTOR OF THE METHOD DIRECTOR OF THE METHOD OF THE

INSERTS, EMBELDED COMPONENTS AND OFFENING.
A THE CONTRACTOR SHALL COORDINATE AND CROSS-CHECK ARCHITECTURAL BUILDING & ELECTRICAL DRAWNIGS FOR OFFENINGS, SLEVES, ANCHORS, HAIGES, AND OTHER ITEMS RELATED TO CONCRETE WORK AND SHALL ASSUME FULL RESPONSIBILITY FOR THE PROPER LOCATION BEFORE PLACING CONCRETE.
B. FROVIDE FORMED OFFENINGS WHERE REQUIRED FOR WORK TO BE EMBEDDED IN AND PASSING THROUGH CONCRETE INCADERS.
COORDINATE WORK OF DURING SWEETS WITH MEANING THE CONTRACT.

EMBEDUED IN AND PRESING TIRKOUGH CONCRETE MEMBERS.

C. COORDINATE WORK OF OTHER SECTIONS IN FORMING AND

SETTING OPENING, SLOTS, RECESSES, CHASES, SLEEVES, BOLTS,
ANCHORS, AND OTHER INSERTS.

D. INSTALL CONCRETE ACCESSORIES STRAIGHT, LEVEL AND FLUMD.

2. REHIFORCEMENT PLACEMENT
A. FLACE REHIFORCEMENT, SUPPORTED AND SECURED AGAINST
DISPLACEMENT.
B. EJISURE REHIFORCING IS CLEAN, FREE OF LOOSE SCALE, DIRT, OR

C. WELDING IS PROHIBITED ON REINFORCING STEEL AND

EMBEDMENTS.

MINIMUM CONCRETE COVER FOR REINFORCING SHALL BE 3 INCHES

UNLESS OTHERWISE NOTED.

E. CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REHIFFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2011CHES.

3. PLACING CONCRETE

B. ALL CONCRETE WORK SHALL ADHERE TO THE LATEST A.C.I STANDARDS FOR WHITER POURING AND CURING PROCEDURES IF SEASONIAL CONDITIONS APPLY

 CURING
 A AFTER PLACEMENT, PROTECT CONCRETE FROM PREMATURE DRYING. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD NECESS FOR HYDRATION OF CEMENT AND HARDENING OF CONCRETE.

5. PROVIDE HAID RUBBED SMOOTH FINISH TO ALL EXPOSED VERTICAL FORMED CONCRETE SURFACES.

5. FIELD QUALITY CONTROL
A. SUBMIT THREE (3) CONCRETE TEST CALIDDERS - TAKEN FOR EVERY
15 CUBIC YARD OR LESS. SUBMIT CONCRETE TESTS TO THE
PROJECT MANIAGER IN ACCORDANCE WITH ASTM. C.31, AND C.39,
B. SUBMIT ONE (1) ADDITIONAL TEST CAULIDER. TAKEN DURING COLD
WEATHER FOURS, AND CUERT ON LOS SITE UNIDER, SAME
CONDITIONS AS CONCRETE IT REPRESENT.
C. SUBMIT ONE (1) SUBMIT TEST - TAKEN FOR EACH SET OF TEST
CAULIDERS TAKEN.

DEFECTIVE CONCRETE MODIFY OR REPLACE CONCRETE NOT CONFORMING TO REQUIRED UNES, DETAILS OR ELEVATIONS AT COST OF GC, AS DIRECTED BY ARCHITECT/ENGINEER.

GENERAL UTILITY

ALL ELECTRICAL SITE WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE.

THE EQUIPMENT AND MATERIAL SHALL BE FURNISHED AND INSTALLED TO OFERATE SAFELY AND CONTINUOUSLY OUTDOORS WITH NO PROTECTION FROM THE WEATHER.

2. ELECTRICAL WORK REPRESENTED ON THE PROJECT DRAWINGS IS SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS AND ELECTRICAL EQUIPMENT SHALL BE DETERMINED IN THE FIELD AND

3. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF TEMPORARY IF RECURED, AND PERMANEUT FOWER WITH THE LOCAL UTILITY COMPANY. THE TEMPORARY POWER AND ALL HOOKUP COSTS ARE TO BE PAID BY THE CONTRACTOR.

4. PROVIDE MOLDEO CASE BOLT-ON, THERMAL MAGNETIC TRIP, SINGLE, TWO OR THERE POLE CIRCUIT BREAKES, MULTIFLE POLE CIRCUIT BREAKES, SHALL BE SINGLE HANDE COMMON TRIP, SHOTC CIRCUIT INTERRUPTING RATHIG SHALL BE AS REQUIRED FOR AVAILABLE FAULT CURRENTS, ALL CIRCUIT BREAKERS, TUPES AND ELECTRICAL EQUIPMENT SHALL WAVE A SHORT CIRCUIT HITERRUPTING RATHIG EQUAL TO OR OREATER THAN THAT SHOWN ON PROJECT DEVANINGS.

5. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENTLY ENGRAVED LAMINATED PHENOLIC NAMEPLATES WITH WHITE ON BLUE BACKGROUND (MINIMUM LETTER HEIGHT SHALL BE 1/2 INCH). NAMEPLATES SHALL BE FASTENED WITH STAINLESS STEEL SCREWS.

G. CONTRACTOR SHALL FERFORM ALL EXCAVATION, TREICHING, BACKFILLING, AND REMOVAL OF DEBRIS IN CONNECTION WITH THE ELECTRICAL WORK IN ACCORDANCE WITH THE FROMECT DRAWNIGS, CONTRACTOR SHALL COORDINATE THE INSTALLATION OF UNDERGROUND UTILLINES AND GROUNDING WITH THE FOUNDATION INSTALLATION.

7. CONTRACTOR SHALL PROVIDE ALL NECESSARY SUFFORTS FOR COUPMENT INSTALLED AS PART OF THIS PROJECT, SUPPORTS SHALL CONSIST OF GALVANIZED STEEL FRAMES, PLATES, BRACKETS, RACKS AND OTHER SHAPES OF ADEQUATE SIZE AND PASTRIBED WITH BOLTS, SCREM'S OR BY WELDING FOR PROVIDE RICH SUPPORT.

CONTRACTOR SHALL CALL THE APPROPRIATE UTILITIES PROTECTION
 SERVICE BEFORE AIM UNDERGROUND WORK IS PERFORMED, SUCH
 AS TRENCHING, EXCAVATING, AND DRIVING GROUND RODS.

CONTRACTOR SHALL SEAL AROUND ELECTRICAL PENETRATIONS
THROUGH FIRE-RATED WALLS/FLOORS USING APPROVED FIRE STOP
MATERIALS TO MAINTAIN THE FIRE RESISTANCE RATING.

10. SHORT CIRCUIT RATINGS: PROVIDE EQUIPMENT WHIGHER FAULT CURRENT RATINGS AS NEEDED TO MATCH UTILITY COMPANY AVAILABLE FAULT CURRENT.

PROVIDED BY

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VERIZON WRELESS

INSTALLED BY

CONTRACTOR

MATERIALS

MATERIAL LIST

COAX AND ELUPTICAL WAVEGUIDE

DUPLEXERS, DIPLEXERS, ¢ COMBINERS

AWS HARDWARE

RET ¢ HYBRID CABLE

GPS ANTENINA & GPS SURGE ARRESTOR

TMA's, BIAS-Th, & PUID

DISTRIBUTION BOXES # RRUS

ANTENNA MOUNTING PIPES

MICROWAVE ANTENNA MOUNT

ANTEHNA MOUNTING PLATFORM

ICE BRIDGE HARDWARE

COAX ATTACHMENT TO TOWER HARDWARE

TOWER BUSS BARS

CONDUIT, CONDUCTORS, & GROUNDING

PPC STYLE CONNECTORS AND CLOSURES

JUMPERS ON THE TOWER & ON ICE BRIDGE

COAX HANGER KITS/HOISTING GRIFS

GPS COAX & CONHECTORS

CONCRETE & REINFORCING STEEL

EQUIPMENT CABINETS

CULVERTS

FENCE, GATE, AND LATCH

H-FRAME MATERIALS

CRUSHED ROCK AND GEOFABRIC

CONCRETE FILLED STEEL BOLLARDS

RAMAKER & ASSOCIATES, INC. 855 Community Dr, Sauk City, WI 53583 608-643-4100 www.Ramaker.com

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12 W. COLFAX AVE., SOUTH BEND IN 466



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DATE DESCRIPTO DATE 10/15/201

TOTAL PHALES E REVA HV1327 - NEO5 -**ROGERS** COUNTY ROAD R & COUNTY ROAD 19 NORTH BEND, NE 68649 DODGE COUNTY SPECIFICATIONS SCALE: NONE