

April 10, 2019

Washoe County
Planning and Development Division
1001 E. Ninth Street
Reno, NV 89512
Attn: Jacob Parker

RE: Application for Special Use Permit and Director's Modification – Vya, NV 89000A Dugway Road, Gerlach, NV 89413

Please find attached a Special Use Permit and Director's Modification submittal applications for a new Commnet Wireless telecommunications facility located at the above referenced location. The submittal contains the following documents.

#### This application is for the April 15, 2109 submittal.

- 1. Filing Fee Check
- 2. Development Application
- 3. Owner's Affidavit
- 4. Project Support Statement
- 5. Director's Modification Application and Memorandum
- 5. Site Plans
- 6. Photosimulations
- 7. Coverage Maps
- 8. Radio Frequency Statement
- 9. Treasurer Statement
- 10. Site Photos
- 11. Flash Drive containing Application materials

If you have any questions or need additional materials, I can be reached at (314) 640-5182.

Sincerely,

Julie Krekeler

General Manager

**Attachments** 



April 10, 2019

Washoe County Planning and Development Division 1001 E. Ninth Street Reno, NV 89512 Attn: Jacob Parker

RE: Application for Special Use Permit and Director's Modification – Vya, NV 89000A Dugway Road, Gerlach, NV 89413

On behalf of Commnet of Nevada, LLC (dba Commnet Wireless), I am submitting a Special Use Permit and Director's Modification submittal application for a new telecommunications facility located at the above referenced location on April 10, 2109 prior to the April 15 submittal date. Please accept this waiver for the submittal time frames and the 3 day completeness check.

If you have any questions or need additional materials, I can be reached at (314) 640-5182.

Sincerely,

Julie Krekeler
General Manager

# Memorandum

**To:** Washoe County, NV

**CC:** Commnet of Nevada, LLC

**From:** Julie M. Hall, Senior RF Engineer, Centerline Solutions

**Date:** 03/27/19

**Re:** RF Emissions Analysis of Proposed Facility-Vya, NV

Commnet of Nevada is proposing to install a wireless telecommunications facility at Vya, NV, in Washoe County, at the following coordinates: 41° 35' 30.76" N, 119° 52' 47.15" W. The proposed installation was evaluated for RF Emissions compliance. The computations, analysis, and conclusions were based on applicable FCC guidelines and regulations for maximum permissible exposure to humans consistent with FCC OET Bulletin 65. At the time of installation, this facility will be transmitting at less than 2% of the applicable RF Emissions limits, thus the facility will be in compliance with applicable FCC regulations for RF Emissions. In addition, the analysis was completed with both existing capacity and future capacity, to insure compliance as the site grows in capacity.

Re-evaluation of the site for compliance would happen if other carriers locate at the facility, if the site grows beyond the capacity that the initial evaluation was completed for, or antennas at the site are changed or added to.

I certify that the analysis is correct to the best of my knowledge, and all calculations, assumptions and conclusions are based on generally acceptable engineering practices.

Julie M. Hall

Senior RF Engineer Centerline Solutions

Julie M. Hall

# **Property Owner Affidavit**

Applicant Name: Commet of Nevada, LLC	
requirements of the Washoe County Developm	ttal does not guarantee the application complies with all ent Code, the Washoe County Master Plan or the ing, or that the application is deemed complete and will
STATE OF NEVADA )	
COUNTY OF WASHOE )	
I, CRATG R. DRAKE (please	
(please	print name)
application as listed below and that the foregoin information herewith submitted are in all respects of and belief. I understand that no assurance or graphly building.	e owner* of the property or properties involved in this ig statements and answers herein contained and the complete, true, and correct to the best of my knowledge juarantee can be given by members of Planning and
(A separate Affidavit must be provided by	each property owner named in the title report.)
Assessor Parcel Number(s): 051-010-49	
	Printed Name CRATG R. DRAKE
	Signed Cray RY L.
	Address 708 W. 12th St.
	Alturas, CA 96101
Subscribed and sworn to before me this day of	(Notary Stamp)
Notary Public in and for Said county and state	
My commission expires:	
*Owner refers to the following: (Please mark appro	ppriate box.)
☐ Owner	
□ Corporate Officer/Partner (Provide copy of	record document indicating authority to sign.)
☐ Power of Attorney (Provide copy of Power	of Attorney.)
<ul> <li>Owner Agent (Provide notarized letter from</li> </ul>	n property owner giving legal authority to agent.)
☐ Property Agent (Provide copy of record do	cument indicating authority to sign.)
Letter from Government Agency with Stew	ardship

#### **CALIFORNIA JURAT WITH AFFIANT STATEMENT**

**GOVERNMENT CODE § 8202** 

\(\arta\ta\ta\ta\ta\ta\ta\ta\ta\ta\ta\ta\ta\t	<u> </u>
See Attached Document (Notary to cross out I ☐ See Statement Below (Lines 1–6 to be comple	
2	
6	
Signature of Document Signer No. 1	Signature of Document Signer No. 2 (if any)
	cate verifies only the identity of the individual who signed the the truthfulness, accuracy, or validity of that document.
State of California County of Modoc	Subscribed and sworn to (or affirmed) before me
L. L. GALVIN  Notary Public - California  Modoc County  Commission # 2268119  My Comm. Expires Dec 19, 2022	on this
	proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.
	Signature Signature of Notary Public
	olghalare of Notaly Public
Seal Place Notary Seal Above	TIONAL TOTAL
Though this section is optional, completing this	PTIONAL s information can deter alteration of the document or is form to an unintended document.
	Document Date:
Number of Pages: Signer(s) Other Than N	
	tary.org • 1-800-US NOTARY (1-800-876-6827) Item #5910

# **Washoe County Development Application**

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information	S	taff Assigned Case No.:		
Project Name: Commn	et Wireless	- Vya, NV		
		e construction of a new unrue Vya and surrounding are		
Project Address: Washoe Count	y E911 Assigned addre	ss: 89000A Dugway Road, Gerlach	, NV 89413	
Project Area (acres or square fe	et): 7,469 sf lease area	along with access and utility easeme	ents	
Project Location (with point of re	eference to major cross	streets AND area locator):		
From Vya, NV, head north of CR 34 N (1.4	4 miles) continue straight on	to Dugway Road (1.5) miles. Turn left onto	unnamed dirt road to site.	
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s):	Parcel Acreage:	
061-010-49	773.890015 acres			
Indicate any previous Washo Case No.(s). NA	oe County approval	s associated with this applica	tion:	
Applicant Inf	ormation (attach	additional sheets if necess	sary)	
Property Owner:		Professional Consultant:		
Name: United States of America	- BLM	Name: CIS Communications, LLC		
Address: 2550 Riverside Drive		Address: 749 Old Ballas Road		
Susanville, CA	Zip: 96130	Creve Coeur, MO	Zip: 63141	
Phone: (530) 252-5321	Fax:	Phone: (314) 569-2275	Fax:	
Email: dryan@blm.gov		Email: julie@ciscomm.com		
Cell: (530) 252-5321 Other:		Cell: (314) 640-5182	Other:	
Contact Person: Daniel Ryan - I	Realty Specialist	Contact Person: Julie Krekeler	- General Manager	
Applicant/Developer:		Other Persons to be Contacted:		
Name: Commnet of Nevada, LLC (	dba Commnet Wireless)	Name:		
Address: 1562 North Park Street	<u> </u>	Address:		
Castle Rock, CO	Zip: 80109		Zip:	
Phone: (720) 733-7854	Fax:	Phone:	Fax:	
Email: cphillips@atni.com		Email:		
Cell: (720) 733-7854	Other:	Cell: Other:		
Contact Person: Cindy Phillips - Direct	ctor of Real Estate/Regulatory	Contact Person:		
	For Office	Use Only		
Date Received:	Initial:	Planning Area:		
County Commission District:		Master Plan Designation(s):		
CAB(s):		Regulatory Zoning(s):		

# Special Use Permit Application Supplemental Information

(All required information may be separately attached)

1. What is the project being requested?

Commnet Wireless' proposed installation of a new unmanned telecommunications facility consisting of a 150' monopole tower with antennas/dishes, equipment shelter, outdoor generator and LP tank.

2.	Provide	а	site	plan	with	all	existing	and	proposed	structures	(e.g.	new	structures,	roadway
	improve	me	nts, ι	ıtilities	, sani	tatio	on, water	suppl	ly, drainage	e, parking, s	igns, e	etc.)		

Refer to construction drawings attached.

3. What is the intended phasing schedule for the construction and completion of the project?

One phase - Construction would take between one and two months.

4. What physical characteristics of your location and/or premises are especially suited to deal with the impacts and the intensity of your proposed use?

Location is needed from an RF standpoint. Location is ideal from an impact standpoint as there is minimal to no visibility from any existing populated areas.

5. What are the anticipated beneficial aspects or affects your project will have on adjacent properties and the community?

Improved wireless coverage as well as wireless broadband coverage for the First Net emergency responders.

6. What are the anticipated negative impacts or affect your project will have on adjacent properties? How will you mitigate these impacts?

There are no negative impacts on adjacent properties or communities. Project is located in remote rural area.

7. Provide specific information on landscaping, parking, type of signs and lighting, and all other code requirements pertinent to the type of use being purposed. Show and indicate these requirements on submitted drawings with the application.

No landscaping, parking, or lighting proposed. All required signage to be attached to shelter door/fence. Please refer to Project Support Statement for explanations.

8.	Are there any restrictive covenants, recorded conditions, or deed restrictions (CC&Rs) that apply to
	the area subject to the special use permit request? (If so, please attach a copy.)

☐ Yes	No		

#### 9. Utilities:

a. Sewer Service	NA
b. Electrical Service	Surprise Valley Electrification Corp.
c. Telephone Service	NA
d. LPG or Natural Gas Service	NA
e. Solid Waste Disposal Service	NA
f. Cable Television Service	NA
g. Water Service	NA

For most uses, Washoe County Code, Chapter 110, Article 422, Water and Sewer Resource Requirements, requires the dedication of water rights to Washoe County. Please indicate the type and quantity of water rights you have available should dedication be required.

h. Permit #	acre-feet per year	
i. Certificate#	acre-feet per year	
j. Surface Claim #	acre-feet per year	
k. Other#	acre-feet per year	

Title of those rights (as filed with the State Engineer in the Division of Water Resources of the Department of Conservation and Natural Resources).

# Not applicable.

10. Community Services (provided and nearest facility):

a. Fire Station	Washoe Rural - Station T40
b. Health Care Facility	Nevada Health Center, Inc., Gerlach, NV
c. Elementary School	Gerlach K-12
d. Middle School	Gerlach K-12
e. High School	Gerlach K-12
f. Parks	Gerlach Community Park
g. Library	Gerlach Community Library
h. Citifare Bus Stop	NA

#### Account Detail



Tax Bill (Click on desired tax year for due dates and further details)						
Tax Year	Net Tax	Total Paid	Penalty/Fees	Interest	Balance Due	
2018	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2017	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2016	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2015	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
2014	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	
				Total	\$0.00	

#### Disclaimer

- ALERTS: If your real property taxes are delinquent, the search results displayed may not reflect the correct amount owing. Please contact our office for the current amount due.
- For your convenience, online payment is available on this site.
   E-check payments are accepted without a fee.
   However, a service fee does apply for online credit card payments.
   See Payment Information for details.

#### Pay By Check

Please make checks payable to: WASHOE COUNTY TREASURER

Mailing Address: P.O. Box 30039 Reno, NV 89520-3039

Overnight Address: 1001 E. Ninth St., Ste D140 Reno, NV 89512-2845





#### COMMNET WIRELESS PROJECT SUPPORT STATEMENT

Project Name: Vya, NV

Project Address: 89000A Dugway Road, Vya, NV 89413

Project APN: 061-010-49

#### **Introduction**

Commnet Wireless (Commnet) focuses on connecting rural America with affordable, carrier grade communications networks to improve safety and quality of life, and to promote economic development. The areas of focus are predominately small communities, state and national parks, seasonal areas, and the roadways that connect these areas to mainstream America. Commnet is seeking to improve cellular coverage within Vya, NV, as well as Hwy 34 north of Vya for approximately 12 miles. In addition, this site is needed to cover Hwy 8, west of the intersection of Hwy 8A/34, for approximately 7 miles, and Hwy 34 south of Vya for approximately 14 miles. Furthermore, this site will be utilized for the FirstNet nationwide emergency broadband network dedicated to first responders.

#### Location

Commnet proposes the construction of a new wireless communications facility that consists of a 150' monopole located at Dugway Road in Vya, Nevada. The property is zoned General Rural (GR) and is owned by the United States of America and is managed by the Bureau of Land Management. The adjacent parcels are also owned by the United States of America as well as private landowners. The nearest residentially zoned property of medium density suburban residential development, is located mainly on the outskirts of the town of Gerlach, Nevada, which is approximately 70 miles away from the proposed facility.

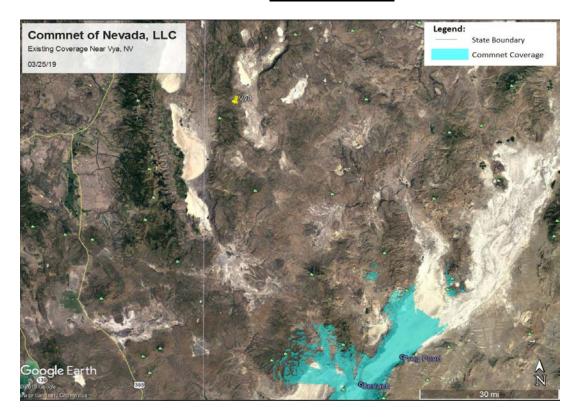
#### **Project Description/Design**

Commnet will be adding (6) antennas, (6) RRU's, (1) surge suppressor, (1) Fiber, (2) DC power lines, (2) microwave dishes along with (4) ½" coax lines on the tower. An outdoor shelter along with a generator and propane tank will be situated within a fenced 77' x 97'compound. This will be an unmanned facility providing cellular and First Net responders coverage 24 hours a day, 7 days a week.

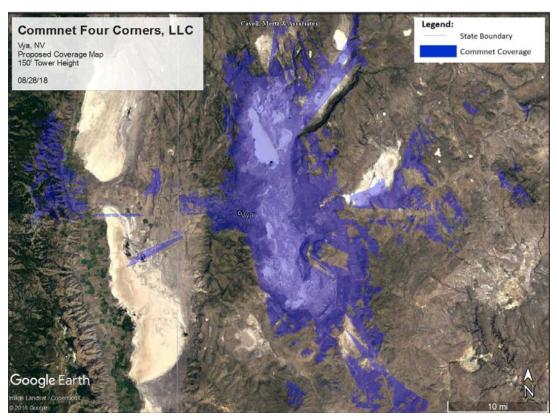
#### Public and Safety Benefits of Improved Wireless Service

Today, more people are relying on wireless phones as their main form of communication; whether it be in their homes, businesses, and/or vehicles. This site will allow Commnet's customers to maintain cellular coverage as shown in the coverage map referenced below. Additionally, this site is also being utilized for the FirstNet nationwide emergency broadband network dedicated to first responders (ie Fire, Police, EMT) for the ability to communicate on a single network for any public safety needs in this area.

# **Existing Coverage**



# **Coverage with Proposed Tower**



#### **Aesthetic Impacts**

Commnet proposes to install a 150' monopole. The proposed height was required due to the surrounding topography and meets the County's requirements for facilities in this zoning code. The facility will not have any negative impacts on this project or adjacent properties in the community as there is currently minimal visibility of the existing facilities from public roadways.



#### **Alternative Site Analysis**

When searching for any new communication site location, Commnet's first goal is to try and secure space on an existing tower or tall structure at the height required. With this philosophy in mind, Commnet first evaluated the collocation opportunities in the search area that offered the height, ground space, access and utilities and other needs required for their system. Commnet's initial location was located at Fortynine Mountain. It was determined there were three (3) individual tower sites. The possibility of using any of the existing towers was ruled out due to an unwilling property owner.



In order to meet the required coverage objective, Commnet concluded that the construction of a new facility would be required. Commnet and the BLM worked together to layout an approved location for the proposed facility.

Below is a detailed explanation of why each existing facility at Fortynine Mountain would not be a viable collocation candidate.

- 1. <u>Bureau of Land Management Tower (Option #1)—</u> Site is located on BLM lands. The BLM stated that they cannot permit any new users at this location as access easements cross private lands and the property owner will not allow additional users. Commnet left multiple messages for the property owner without receiving any responses.
- 2. <u>Bureau of Land Management Tower (Option #2)</u>— Site is located on BLM lands. The BLM stated that they cannot permit any new users at this location as access easements cross private lands and the property owner will not allow additional users. Commnet left multiple messages for the property owner without receiving any responses.

3. <u>Los Angeles Department of Water and Power (Option #3)</u> – This site is located near the BLM tower (option #2); however, it is placed on the unwilling property owner's parcel. Per the BLM, the property owner will not allow new users access on his property. Aside from the unwilling property owner, Commnet has tried to collocate on other LADWP towers, with no response.

#### **Statement of Commitment to Allow Collocation**

In addition to Commnet's antenna loadings as proposed, this tower is also structurally designed to accommodate additional communication collocators.

#### Lighting and Signage

Unless required by the Federal Aviation Administration (FAA), no lighting is proposed at this facility. All required FCC and other regulatory notification signage will be attached to the shelter door and/or fence.

#### Access/Utilities/Parking

Access to the facility is by way of Dugway Road which is located off of County Road 8A, approximately 70+ miles northwest of Gerlach. No road improvements are planned as Commnet will utilize the existing dirt road. Power for the facility will be routed underground in a conduit from a nearby transformer to a new meter bank located within the fenced the facility as depicted in the site plan. Batteries and generator/propane tank will serve as back-up power supply. Parking is not proposed as this is an unmanned facility that will be visited by a cell tech once or twice a month. There is sufficient parking at the facility location.

#### Maintenance and equipment back-up power.

The proposed wireless communications facility is located in a remote rural location. Because First Net responder emergency equipment will be located at this facility, it is imperative that the facility is operable in the event of a power outage or a natural disaster. In the event of an outage, the battery power will operate the system. If the power outage is for an extended period, and the batteries are no longer effective, the generator will automatically power the site. This multi-layer back-up system is important for communications sites to ensure continued operation. A cell technician will visit the site approximately once or twice a month to perform regular equipment maintenance.

#### **Landscaping Variance**

Commnet is not proposing landscaping at this facility and is seeking a variance to obtain relief from the landscaping requirements. The subject property is located in a remote rural location, has restricted access to water resources, and will have limited monthly technician visits. The site is located approximately 2,000 feet from the nearest public roadway and landscaping would not be visible to the general public. There is natural landscaping surrounding the proposed facility that shields the site to public visibility. Commnet is requesting the Board of Adjustments to specifically waive landscaping requirements for the above stated reasons.

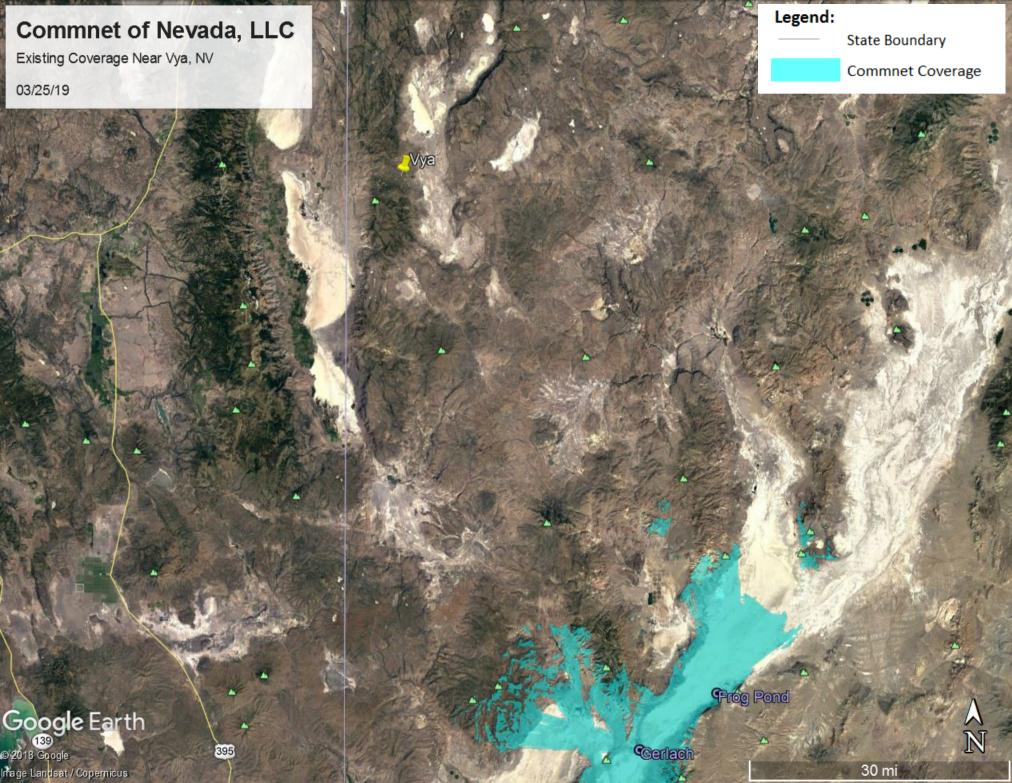
Commnet Wireless Project Support Statement – Vya, NV

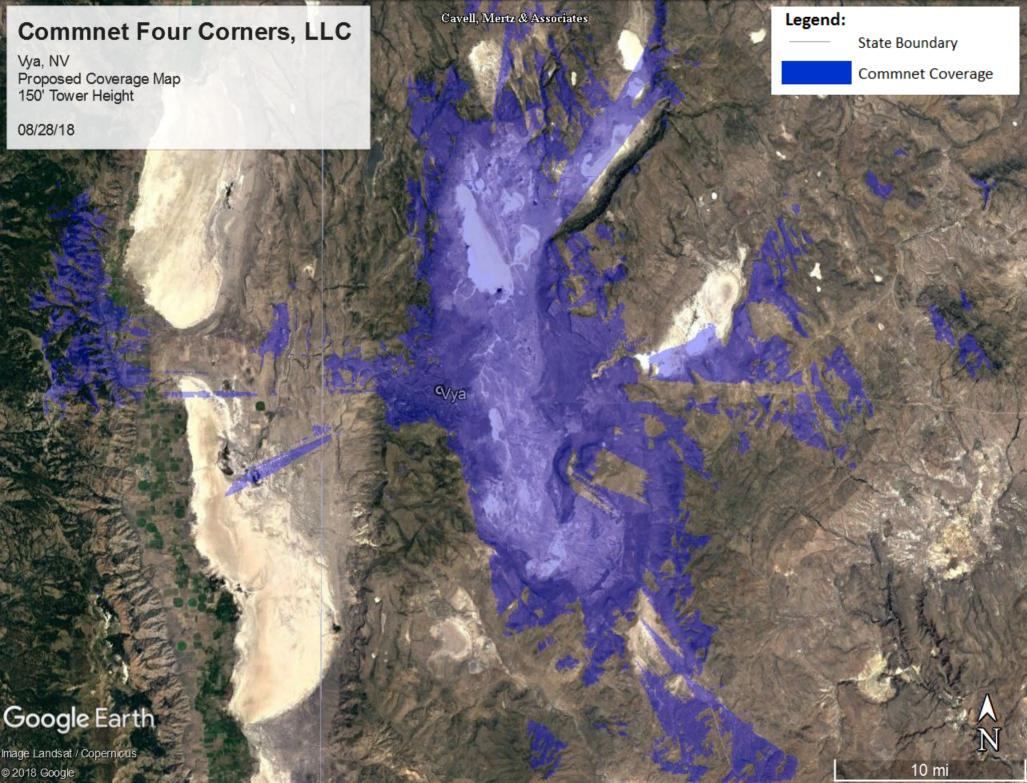
# **Grading**

Not applicable. Grading is not anticipated for this project.

#### **Significant Hydrological Resources**

The subject site is located in the High Desert planning area. Per section Section 110.418.05 (e), the provisions of this article do not apply for development in the High Desert planning area.





**RAW LAND MONOPOLE** 

VYA, NEVADA

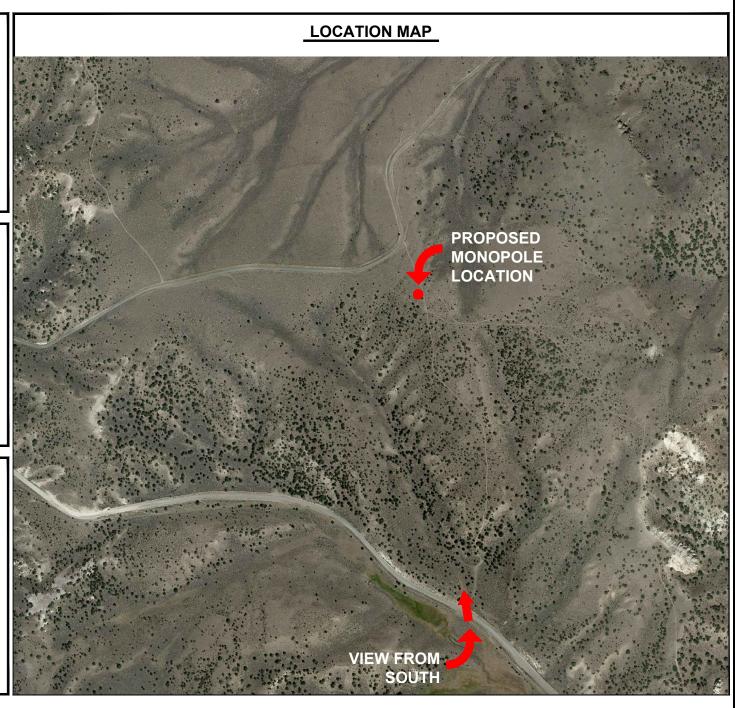
89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



# **ENGINEER**





**RAW LAND MONOPOLE** 

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



#### **ENGINEER**



Looking North Toward Proposed Monopole Location (Before)



**RAW LAND MONOPOLE** 

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



#### **ENGINEER**



Looking North Toward Proposed Monopole Location (After)



RAW LAND MONOPOLE

VYA, NEVADA

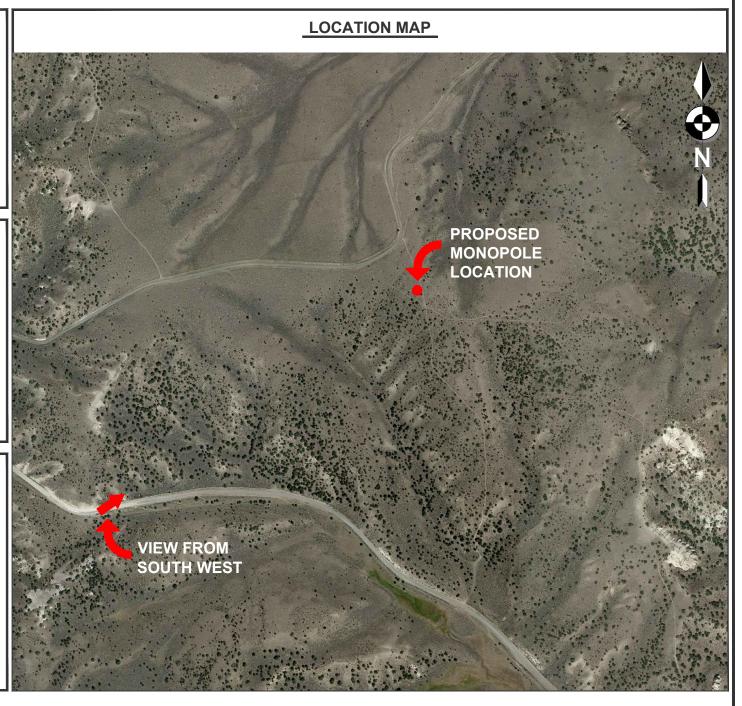
89000A DUGWAY RD GERLACH, NV 89413

# **PROJECT OWNER**



#### **ENGINEER**





**RAW LAND MONOPOLE** 

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



#### **ENGINEER**



Looking North East Toward Monopole Location (Before)



**RAW LAND MONOPOLE** 

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



#### **ENGINEER**



Looking North East Toward Monopole Location (After)



RAW LAND MONOPOLE

VYA, NEVADA

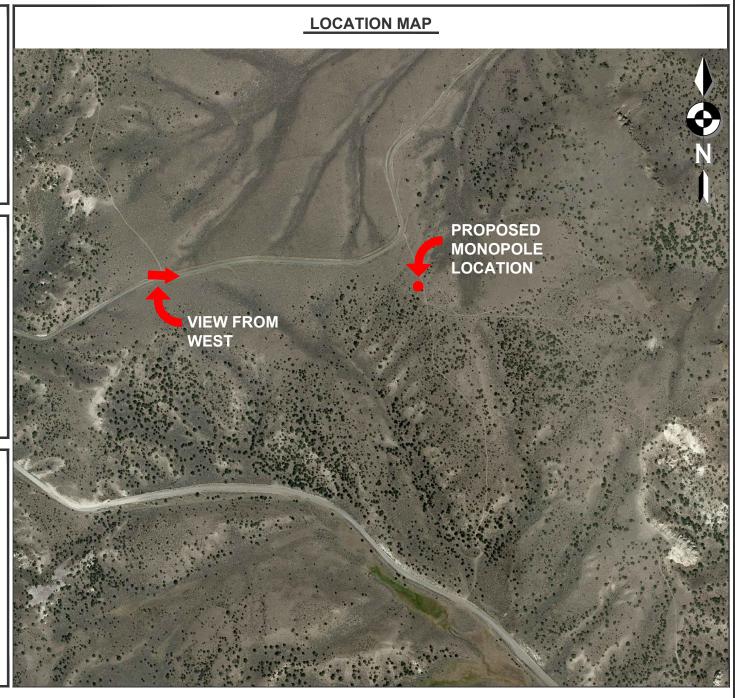
89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



#### **ENGINEER**





RAW LAND MONOPOLE

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



# **ENGINEER**



Looking East Toward Proposed Monopole Location (Before)



RAW LAND MONOPOLE

VYA, NEVADA

89000A DUGWAY RD GERLACH, NV 89413

# PROJECT OWNER



# **ENGINEER**



Looking East Toward Proposed Monopole Location (After)



# Vya, NV Photos

\*Note that all photos may have not been attained due to exceptional conditions prohibiting travel to the site

# **Vya Pre CX East looking West**



**Vya Pre CX Tower Center looking West** 



**Vya Pre CX Tower Center looking North** 



# **Vya Pre CX West looking East**



# Community Services Department Planning and Building DIRECTOR'S MODIFICATION OF PARKING/LANDSCAPING MINOR DEVIATION STANDARDS APPLICATION



Community Services Department
Planning and Building
1001 E. Ninth St., Bldg. A
Reno, NV 89512-2845

Telephone: 775.328.6100

# **Washoe County Development Application**

Your entire application is a public record. If you have a concern about releasing personal information, please contact Planning and Building staff at 775.328.6100.

Project Information	S	taff Assigned Case No.: _		
Project Name: Commn	et Wireles:	s, Vya, NV		
I locorintion:		e construction of a new le Vya and surrounding		
Project Address: Washoe Count	y 911 Assigned addre	ss: 89000A Dugway Road, G	Gerlach, NV 89413	
Project Area (acres or square fee	et): 7,469 sf lease area	along with access and utility	easements	
Project Location (with point of re	ference to major cross	streets AND area locator):		
From Vya, NV, head north on CR 34 N (1.4	miles) continue straight ont	o Dugway Road (1.5) miles. Turn left	t onto unmanned dirt road to site.	
Assessor's Parcel No.(s):	Parcel Acreage:	Assessor's Parcel No.(s	s): Parcel Acreage:	
061-010-49	773.890015 acres			
Indicate any previous Washo Case No.(s). NA	e County approval	s associated with this app	olication:	
Applicant Info	ormation (attach	additional sheets if ne	cessary)	
Property Owner:		Professional Consultant	t:	
Name: United States of America	- BLM	Name: CIS Communications, LLC		
Address: 2550 Riverside Drive		Address: 749 Old Ballas R	oad	
Susanville, CA	Zip: 96130	Creve Coeur, MO	Zip: 63141	
Phone: (530) 252-5321	Fax:	Phone: (314) 569-2275	5 Fax:	
Email: dryan@blm.gov		Email: julie@ciscomm.com	1	
Cell: (530) 252-5321	Other:	Cell: (314) 640-5182	Other:	
Contact Person: Daniel Ryan - F	Realty Specialist	Contact Person: Julie Krek	keler - General Manager	
Applicant/Developer:		Other Persons to be Contacted:		
Name: Commnet of Nevada, LLC (d	ba Commnet Wireless)	Name:		
Address: 1562 North Park Street	t	Address:		
Castle Rock, CO	Zip: 80109		Zip:	
Phone: (720) 733-7854	Fax:	Phone:	Fax:	
Email: cphillips@atni.com		Email:		
Cell: (720) 733-7854	Other:	Cell:	Other:	
Contact Person: Cindy Phillips - Direct	or of Real Estate/Regulatory	Contact Person:		
	For Office	Use Only		
Date Received:	Initial:	Planning Area:		
County Commission District:		Master Plan Designation(	s):	
CAB(s):		Regulatory Zoning(s):		

# Director's Modification of Standards Supplemental Information

(All required information may be separately attached)

, , , , , , , , , , , , , , , , , , , ,
Parking Standards - Article 110.410.00
Landscaping Standards - Article 110,412,00

Noise and Lighting - Article 110.414.00
Minor deviation Standards - Section 110.804.35

2. Why is the modification or deviation necessary to the success of the project/development? **Be specific.** Are there any extenuating circumstances or physical conditions on the proposed project/development site?

Please refer to the attached Director's Memorandum for explanation

3. Are you proposing to mitigate the effect of the modification or reduction?

1. What modification or deviation are you requesting? Be specific.

Please refer to the attached Director's Memorandum for explanation

4. What section of code are you requesting to modify or deviate? **Be specific.** List the code section and if there are specific requirements for the modification, provide detailed information. For deviation, provide the percentage of the deviation.

Parking Standards - Whole Section Landscaping Standards - Whole Section Noise and Lighting - Whole Section

Minor Deviation Standards - Maximum height allowed (150' monopole) as stated per Washoe County Planning Department

5. For Minor Deviation request; list what properties/parcels are affected by the deviation? Explain if there will be any impacts to the affected neighboring properties. (At a minimum, affected property owners are those owners of parcels that immediately abut the location of the proposed minor deviation.)

Please refer to the Director's Memorandum for list of adjoining parcels and impact explanation.

#### **MEMORANDUM**

To: Washoe County

CC: Commnet of Nevada, LLC (Commnet Wireless)

From: Julie Krekeler, Site Acquisition, CIS Communications, LLC

Date: April 10, 2019

Re: DIRECTORS MODIFICATION REQUEST CLARIFICATION – Special Use Permit - APN: 061-010-49

(Vya, NV)

Dear Washoe County,

The subject application is for a Special Use Permit for the construction of a telecommunications facility consisting of a 150′ monopole, outdoor shelter, and a generator and propane tank within a 77′ x 97′ fenced compound situated in rural Vya, Nevada. The parcel is located on property owned by the United Stated of America and is managed by the Bureau of Land Management. The parcel consists of 773.89 acres.

Upon review of Washoe County's Development Code Section 110, Commnet Wireless is hereby requesting certain specific conditions to be considered for Director's Modification due to the following.

Article 110.410.00 Parking —Commnet Wireless would like to modify Section 110.410.00 to allow for the request to waive parking. Due to the unusual nature of the establishment and the remote rural location of this proposed unmanned facility that will be visited by a cell tech once or twice a month, the standards set form in this section such as parking design and access width would be excessive and unreasonable for Commnet Wireless. The secured proposed facility is not for the general public access and there is ample space for the technician to park either outside or inside of the fenced lease area.

Article 110.412.00 Landscaping - Commnet Wireless would like to modify Section 110.412.00 to allow for the request to waive the whole section of landscaping. The subject site is located in a remote unimproved area. In addition to being remote, the site is located 2000+ feet from the nearest gravel county road or adjoining parcel where there will be minimal visibility. Because this remote location and it is an unmanned facility, Commnet Wireless' policy is to avoid any landscaping to conserve water as well as the need for routine landscape maintenance. Additionally, because of the vast size of the parcel (773 acres), it is unreasonable for Commnet Wireless to meet Washoe County's requirement of landscape coverage of a minimum twenty (20) percent of the total developed land area as well as landscaped buffers at least one (1) tree every twenty (20) linear feet of property frontage as outlined in Sections 110.412.40 (a) and (c).

<u>Section 110.414.00 Noise and Lighting - Commnet Wireless would like to modify the Section 110.414.00</u> to allow for the request to waive the entire section of Noise and Lighting. The site will be powered from a nearby transformer to a new meter bank located within the fenced compound. There will be a generator installed at the site in the event of extended power outages. First Net responder equipment is proposed at this site. Per Section 110.414.20 (b) emergency equipment is exempt from this section.

Unless lighting is required by the FAA, no lighting is proposed at the unmanned facility. Commnet proposes Washoe County's current best practice of "dark-sky" standards. There will be lighting inside the shelter that is turned on only during a technician's site visit.

<u>Section 110.804.35 Minor Deviations</u> Commnet Wireless is proposing a 150' monople and is seeking approval for the height deviation per table 110.324.55.1 . As stated, this site is located in a remote area of northern Nevada where there is currently limited to no cellular service. This site will include First Net responder emergency equipment as well as multi users and due to the diverse topography and the remoteness of the area, the height is needed to overcome that terrain to obtain optimal coverage.

The following is a list of parcels that abut the subject property parcel. The closets parcels to the proposed facility, as indicated by an asterisk, are at a distance of 2,000 feet. The nearest residence is approximately one (1) mile away and this facility will not impose any negative impacts. The impact this proposed facility will have is a communication source that is vital to today's safety and quality of life.

061-010-02 - Zoned GR

\*061-010-03 - Zoned GR

\*061-010-04 – Zoned GR

061-010-05 - Zoned GR

061-010-07 - Zoned GR

\* 061-010-55 – Zoned GR

061-260-08 - Zoned GR

061-260-09 - Zoned GR

061-260-03 – Zoned GR

061-260-02- Zoned GR

061-260-01- Zoned GR

061-050-46 - Zoned GR

061-050-30- Zoned GR

#### LEGAL DESCRIPTIONS

BEING A PORTION OF SECTION 5, TOWNSHIP 42 NORTH, RANGE 19 EAST, MDB&M., WASHOE COUNTY, NEVADA, DESCRIBED AS FOLLOWS:

"PARCEL A" (LEASE AREA)

COMMENCING AT THE SOUTHWEST CORNER OF THE NORTHWEST QUARTER (NW1/4) OF SECTION 5, TOWNSHIP 42 NORTH, RANGE 19 EAST, M.D.B.&M.;

THENCE NORTH 77'40'28" EAST, 2441.54 FEET TO THE POINT OF BEGINNING;

THENCE SOUTH 89'49'37" EAST, 72.00 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A";

THENCE CONTINUING, SOUTH 89'49'37" EAST, 5.00 FEET;

THENCE NORTH 0010'23" FAST, 97.00 FFFT:

THENCE NORTH 89'49'37" WEST, 38.50 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT 'B';

THENCE CONTINUING, NORTH 89'49'37" WEST, 38.50 FEET;

SOUTH 0010'23" WEST, 97.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 7,469 SQ.FT. MORE OR LESS.

"PARCEL B" (UTILITY EASEMENT)

BEING A STRIP OF LAND 10.00 FEET IN WIDTH, LYING 5.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT THE AFOREMENTIONED POINT "A";

THENCE SOUTH 12'50'26" EAST, 54.25 FEET TO THE POINT OF TERMINATION.

THE SIDELINES OF THIS STRIP OF LAND ARE TO BE LENGTHENED OR SHORTENED TO INTERSECT AT ALL ANGLE POINTS, AND TO BEGIN ON THE SOUTH LINE OF "PARCEL A".

CONTAINING 542 SQ.FT. MORE OR LESS.

"PARCEL C" (ACCESS EASEMENT)

BEING A STRIP OF LAND 12.00 FEET IN WIDTH, LYING 6.00 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

BEGINNING AT THE AFOREMENTIONED POINT "B";

THENCE NORTH 00'00'00"EAST, 30.57 FEET;

THENCE NORTH 14°37'01" WEST, 54.43 FEET;

THENCE NORTH 25°42'37" WEST, 39.11 FEET;

THENCE NORTH 22'04'32" WEST. 32.34 FEET:

THENCE NORTH 13°24'41" WEST, 44.10 FEET;

THENCE NORTH 14'43'36" WEST. 57.25 FEET: THENCE NORTH 24'09'51" WEST, 97.94 FEET;

THENCE NORTH 18\*44\*16" WEST. 85.71 FEFT:

THENCE NORTH 39°03'24" WEST, 40.30 FEET TO THE POINT OF TERMINATION.

THE SIDELINES OF THIS STRIP OF LAND ARE TO BE LENGTHENED OR SHORTENED TO INTERSECT AT ALL ANGLE POINTS, AND TO BEGIN ON THE NORTH LINE OF "PARCEL A".

CONTAINING 5,781 SQ.FT. MORE OR LESS.

#### PARENT PARCEL LEGAL DESCRIPTION

LYING WITHIN SECTION 5, TOWNSHIP 42 NORTH, RANGE 19 EAST, M.D.M.. WASHOE COUNTY. NEVADA.

#### OWNERSHIP INFORMATION

OWNER = UNITED STATES OF AMERICA

ASSESSOR'S PARCEL NUMBER = 061-010-49

VESTING DOCUMENT = N/A

#### TITLE REPORT DATA AND EXCEPTIONS

NO TITLE REPORT PROVIDED.

#### BASIS OF BEARINGS

GRID NORTH BASED UPON THE NORTH AMERICAN DATUM OF 1983/94 (2011). GRID NORTH BASED UPON THE NORTH AMERICAN DATUM OF 1983/94 (2011), NEVADA WEST ZONE (2703) COORDINATES PROVIDED BY OPUS SOLUTION; THE DISTANCES ARE BASED ON A GROUND SCALE FACTOR OF 1.0002506172 REFERENCED FROM A POINT NEAR THE PROJECT WITH A LATITUDE OF 4135'30.19834" N AND A LONGTHUDE OF 119'52'47.01529" W AND A NORTH AMERICAN VERTICAL DATUM OF 1988 HEIGHT OF 6167.50 FEET USING GEOID12A

#### PROPOSED TOWER COORDINATES

NAD 83 LATITUDE = 41\*35'30.76358" N 119\*52'47.14752" W LONGITUDE =

SITE GROUND ELEVATION = 6236.20'

STATE PLANE COORDINATES NAD 83, NEVADA WEST ZONE

NORTHING = 4760184.649METERS (GROUND) = FEET (GROUND) =

EASTING = 691916.598 NORTHING = 15617372.47 EASTING = 2270063.04

FOUND 3" ALUMINUM CAP STAMPED "BLM 1980"

#### LEGEND

ASSESSORS PARCEL NUMBER PROPOSED EASEMENT LINE EXISTING EASEMENT LINE

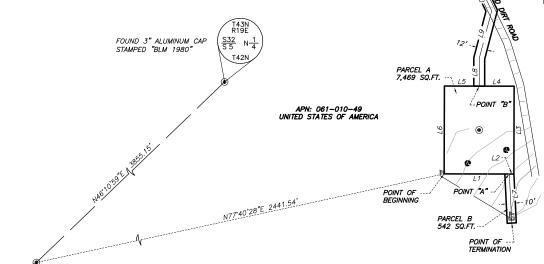
SECTION LINE

FOUND MONUMENTATION AS DESCRIBED ELECTRIC PULL BOX

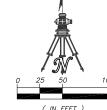
ELECTRIC MARKER

LINE TABLE		
LINE	BEARING	DISTANCE
L1	N89*49'37"W	72.00
L2	N89*49'37"W	5.00
L3	S0*10'23"W	97.00
L4	S89°49'37"E	38.50
L5	S89*49'37"E	38.50
L6	NO*10'23"E	97.00'
L7	S2*50'26"E	54.25
L8	NO*00'00"E	30.57
L9	N14*37'01"E	54.43
L10	N25*42'37"W	39.11
L11	N22*04'32"W	32.34
L12	N13*24'41"W	44.10
L13	N14*43'36"W	57.25
L14	N24*09'51"W	97.94
L15	N18*44'16"W	85.71
L16	N39*03'24"W	40.30

PARCEL C 5,781 SQ.FT.







( IN FEET ) 1 inch = 50

NEVADA COUNTY, WASHOE 90 ECOM-1802 SHEET

WIRELESS,

EYING, LLC.

WALLACE SURVE SURVE LAND SURV

THE ARCHITECTS/ENGINEERS HAVE MADE EVERY EFFORT AS SET FORTH IN THE CONSTRUCTION DRAWINGS, CONTRACT DOCUMENTS AND THE COMPLETE SCOPE OF WORK. CONTRACTORS BIDDING THE JOB ARE NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS. THE BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE ARCHITECT/ENGINEER OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL. IN THE EVENT OF DISCREPANCIES THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXTENSIVE WORK UNLESS OTHERWISE DIRECTED.

# CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

- 2012 INTERNATIONAL BUILDING CODE (IBC)
- 2012 INTERNATIONAL MECHANICAL CODE (IMC)
- 2012 INTERNATIONAL PLUMBING CODE (IPC) 2011 NATIONAL ELECTRICAL CODE (NEC)
- TIA/EIA-222-F STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNNA SUPPORTING STRUCTURES

EUREKA) WHITE PINE

LINCOLN

CLARK

LOCAL BUILDING CODE(S)

CITY AND/OR COUNTY AMENDED

PROJECT

LOCATION

# **JURISDICTION: WASHOE COUNTY**

PERSHING

CHURCHILL



PROJECT: RAW LAND MONOPOLE



SHEET INDEX

APPROVAL BOX

SIGNATURE:

<u>DATE:</u>

DEPARTMENT:

ROPERTY OWNER REPRESENTATIVE

PROJECT MANAGER

F MANAGER

CONSTRUCTION MANAGER

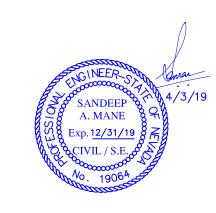
DESCRIPTION:





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524

# PE SEAL



DESIGNER: JASON NG LEAD EE: S		19064 Minneses		
LEAD EE:	DESIGNER:		JASON	NG
	LEAD EE:			S

LEAD	LEAD CE/SE: SAM				
SUBMITTALS					
REV.	DATE	DESCRIPTION	BY		
Н	1/25/19	COMMENTS	JN		
	2/13/19	COMMENTS	JN		
J	2/18/19	COMMENTS	JN		
K	2/19/19	FINAL CD	JN		
L	4/3/19	REVISED CD	JN		

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W

89000A DUGWAY ROAD GERLACH, NV 89413

SHEET TITLE

TITLE SHEET

SHEET NUMBER

STATE MAP PROJECT TEAM PROJECT OWNER: COMMNET WIRELESS, LLC HUMBOLT ELKO

1562 NORTH PARK STREET CASTLE ROCK, COLORADO 80109

PROJECT MANAGER: 1562 NORTH PARK STREET CASTLE ROCK, COLORADO 80109 CONTACT: POLLEY WIESE

> PHONE: (720) 733-5399 EMAIL: pwiese@atni.com

1562 N. PARK STREET CASTLE ROCK, CO 80104 CONTACT: DAVE TILLER, CM PHONE: (720) 357-5384 EMAIL: DTiller@atni.com

1562 NORTH PARK STREET CASTLE ROCK, COLORADO 80109 CONTACT: ALEXIS LEIDIGH,

CASTLE ROCK CO. PHONE: (501) 448-1545

Abn ENGINEERING, LLC 1337 E. DESERT FLOWER LANE

PHOENIX, AZ 85048 CONTACT: SANDEEP A. MANE, P.E. PHONE: (480) 213-8524 EMAIL: smane@abneng.com

ELECTRICAL EE LLC

CONSTRUCTION

MANAGER:

LEASE

ACQUISITION:

CIVIL ENGINEER:

**ENGINEERING:** 

SURVEYOR:

12005 ANTELOPE TRAIL PARKER, CO 80138

PHONE: (303) 748-1189

WALLACE MORRIS ORBAN SURVEYING, LLC 1250 LAMOILLE HIGHWAY, UNIT 628

ELKO, NV 89801 PHONE: (775) 753-3610

POWER PROVIDER: SURPRISE VALLEY ELECTRIFICATION CORP

516 US HWY 395 ALTURAS, CA 96101 LEASE AREA:

SITE NAME:

APPLICANT:

CONTACT:

APN NUMBER:

NEW USE:

OCCUPANCY:

CURRENT ZONING: BLM

CONSTRUCTION TYPE: VB

SITE ADDRESS:

TITLE SHEET & PROJECT INFORMATION GN-1 GENERAL NOTES SN-1 SITE SIGNATE DETAILS SITE COORDINATES: LATITUDE: 41° 35' 30.76358"N (NAD 83) A-1 OVERALL SITE PLAN LONGITUDE: 119° 52' 47.14752"W (NAD 83) ELEVATION:  $\pm 6,236.20$ ' (AMSL) (NAVD 88) A-2.0 ENLARGED SITE PLAN A-2.1 SHELTER LAYOUT A-3 SITE ELEVATION & DETAILS A-5 | CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS CONSTRUCTION DETAILS A - 8SHELTER FOUNDATION DETAILS OVERALL ELECTRICAL PLAN & ELECTRICAL NOTES PANEL SCHEDULE & ONE LINE DIAGRAM E-3 | DETAILS GROUNDING PLAN GROUNDING DETAILS

VACANT LAND UNMANNED TELECOMMUNICATIONS FACILITY 7,469 SQ.FT.

PROJECT INFORMATION

89000A DUGWAY ROAD

COMMNET WIRELESS, LLC

1562 NORTH PARK STREET

CASTLE ROCK, COLORADO 80109

GERLACH, NV 89413

VYA, NEVADA

DAVE TILLER

061 - 010 - 49

PROPERTY OWNER: UNITED STATES OF AMERICA

(720) 357-5384

# CURRENT USE:

# PHONE: (530) 233-3511 CONTACT: DJ NORTHRUP - COMPLIANCE TECH EMAIL: DJNSVEC@FRONTIER.COM

#### DRIVING DIRECTIONS PROJECT DESCRIPTION

INSTALLING A NEW MONOPOLE TO INCLUDE, NEW ANTENNAS, RRHs, MOUNTS, PRE-FABRICATED SHELTER, PROPANE TANK, GENERATOR AND A METER SERVICE WITHIN A NEW CHAIN LINK FENCE.

	UTILITY TABLE
UTILITY:	PROVIDER:
WATER	N/A
SEWER	N/A
ELECTRICAL	NV ENERGY
TELEPHONE/FIBER	TBD
POLICE	WASHOE COUNTY
FIRE	WASHOE COUNTY

UTILITY TABLE			
UTILITY:	<u>PROVIDER:</u>		
WATER	N/A		
SEWER	N/A		
ELECTRICAL	NV ENERGY		
TELEPHONE/FIBER	TBD		
POLICE	WASHOE COUNTY		
FIRE	WASHOE COUNTY		

# VICINITY MAP -(8A)-

FROM VYA, NEVADA: HEAD NORTH ON COUNTY RD 34 N. (1.4 MILES) CONTINUE STRAIGHT ONTO DUGWAY RD. (1.5 MILES). TURN LEFT ONTO

UNNAMED DIRT ROAD TO SITE.

THE CONTRACTOR SHALL CONDUCT ALL ACTIVITIES WHETHER CONSTRUCTION RELATED OR AFTER—HOURS WITH A HIGH DEGREE OF ETHICS AND APPROPRIATE BEHAVIOR.

<u> Eneral notes — scope of work revision 9—19—16 </u>

THE CONTRACTOR SHALL PROVIDE A COMPLETE INSTALLATION N ACCORDANCE WITH THE CONSTRUCTION PLANS PROVIDED AND DIRECTION OF THE CONSTRUCTION/PROJECT MANAGERS.

THE GC WILL NOT START CONSTRUCTION UNTIL EACH OF THE OLLOWING HAS BEEN COMPLETED: PRE-CONSTRUCTION MEETING HAS BEEN HELD; BUILDING PERMIT HAS BEEN SECURED, AND THE PROJECT ENGINEER HAS AUTHORIZED START OF CONSTRUCTION.

THE CONTRACTOR SHALL NOT BE EXPECTED TO POWER—UP, COMMISSION OR BRING ON-LINE ANY EQUIPMENT.

THE CONTRACTOR SHALL ENSURE SITE AREA IS CLEAN AND FREE OF CONSTRUCTION DEBRIS ON A DAILY BASIS.

THE CONTRACTOR MAY BE REQUIRED TO ASSIST WITH PERMIT APPLICATIONS AND PLAN SUBMITTALS.

THE CONTRACTOR SHALL CALL—IN AND COORDINATES ALL ECESSARY INSPECTIONS WITH THE PROPER CITY, COUNTY, STATE AUTHORITY.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IDENTIFIED BY OHSA REGULATIONS. UPON REQUEST, THE CONTRACTOR SHALL PROVIDE DOCUMENTS SHOWING COMPLIANCE.

HE CONTRACTOR SHALL SUPPLY ALL TOOLS NECESSARY TO OMPLETE CONSTRUCTION INCLUDING INSTALLATION OF GROUNDING SYSTEM, IN ACCORDANCE WITH THE PLANS.

THE CONTRACTOR SHALL PROVIDE AS—BUILT DRAWINGS THAT DEMONSTRATE COMPLETION OF CONSTRUCTION AND THAT NOTE ANY DEVIATIONS FROM THE PLANS.

#### <u> BID WALK</u>

A BID WALK WILL BE HELD ON-SITE TO DISCUSS ANY QUESTIONS OR POSSIBLE SUGGESTIONS THAT GC'S MAY HAVE IN REGARDS TO THIS INSTALLATION. BID WALK IS OPTIONAL BUT NO CHANGE ORDERS WILL BE ALLOWED UNLESS APPROVED CM. BID WALK IS DESIGNED TO CLEAR UP ANY CONCERNS OR QUESTIONS THAT GC'S MAY HAVE ABOUT THE INSTALLATION.

#### TIME:

GENERAL CONTRACTOR'S PROJECT MANAGER (CONTRACTOR PM) BEFORE THE COMMENCEMENT OF ANY WORK, THE GC WILL ASSIGN A CONTRACTOR PROJECT MANAGER (CONTRACTOR PM) WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS CONTRACTOR PM WILL DEVELOP A MASTER SCHEDULE FOR THE PROJECT, WHICH WILL BE SUBMITTED TO THE CWL CM PRIOR TO THE COMMENCEMENT OF ANY WORK. THIS CONTRACTOR PM WILL

CHEDULE AN ON-SITE MEETING PRIOR TO PROJECT START. WITH ALL MAJOR PARTIES PRESENT. APPROPRIATE PARTIES INCLUDE (BUT ARE NOT LIMITED TO) CWL CM, CWL LOCAL OPERATIONS POC (MANAGER, SUPERVISOR OR TECHNICIAN), LOCAL POWER COMPANY, DESIGNATED ELECTRICIAN, LOCAL TELEPHONE COMPANY, GC CREW CHIEF / FOREMAN. THE CONTRACTOR PM WILL PROVIDE DAILY VERBAL UPDATES ON SITE WORK PROGRESS TO THE CWL CM.

THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPES/CONDUITS USING AN INDEPENDENT UNDERGROUND LOCATOR SERVICE.

THE CONTRACTOR SHALL COORDINATE EXCAVATION WORK WITH CM/OWNER SO AS NOT TO INTERFERE WITH COMPOUND ACCESS BY SITE OWNER AND/OR CURRENT TENANTS.

ALL EXCAVATION SHALL BE DONE WITH CARE TO AVOID DAMAGING UNDERGROUND PIPES/CONDUITS. ANY DAMAGE CAUSED BY CONSTRUCTION SHALL BE REPAIRED IMMEDIATELY AND MONITORED BY THE CONTRACTOR UNTIL REPAIRS ARE COMPLETED. THE CONTRACTOR SHALL NOTIFY THE CM BY PHONE IMMEDIATELY IF DAMAGE TO UNDERGROUND FACILITIES S CAUSED BY CONSTRUCTION AND THE CONTRACTOR SHALL SUBMIT A WRITTEN REPORT OF THE INCIDENT TO THE CM AND TO THE OWNER OF THE DAMAGED FACILITIES WITHIN 24 HOURS.

THE CONTRACTOR SHALL ENSURE THAT THE SITE IS GRADED PROPERLY DURING CONSTRUCTION TO AVOID STANDING WATER AND USE APPROVED BACKFILL METHODS FOR ANY TRENCH WORK REQUIRED. THE CONTRACTOR SHALL RESTORE ALL ISTURBED AREAS TO THEIR ORIGINAL CONDITIONS USING LIKE MATERIALS.

#### ELECTRICAL

THE CONTRACTOR SHALL INSTALL SECONDARY ELECTRICAL SERVICES ACCORDING TO THE PLANS AND CURRENT NEC AND LOCAL CODES. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED ELECTRICAL INSPECTIONS.

#### TELCO - SHELTER (IF APPLICABLE)

IT IS THE CONTRACTOR RESPONSIBILITY TO PROVIDE AND RUN TELEPHONE CABLE FROM THE TELCO BOX ON THE H-FRAME TO

THE CONTRACTOR SHALL, BY USE OF A TORQUE WRENCH, THE TELCO TERMINATION POINT INSIDE THE EQUIPMENT SHELTER. CABLE SHALL CONSIST OF TWO (2) EACH 25-PAIR SHIELDED TELEPHONE CABLES AND 1 PULL STRING. CABLE WILL BE RUN INSIDE A 3" PVC PIPE. CONDUITS WILL BE OUTFITTED WITH ABOVE-GROUND FROST-SLEEVES ON BOTH ENDS, AND INTERNAL CABLES MUST BE INSTALLED WITH ABOUT 8" OF SLACK TO ALLOW FOR POTENTIAL FROST-HEAVE RELIEF. ALSO, LEAVE ONE PULL—STRING INSIDE THE CONDUIT — TIED OFF AT BOTH ENDS - FOR POTENTIAL FUTURE USE.

TELCO - OUTDOOR EQUIPMENT (IF APPLICABLE)

IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSTALL 2 TELEPHONE CABLE (CAT5) AND A PULL STRING FROM THE TELCO BOX ON THE H-FRAME TO THE TELCO TERMINATION POINT INSIDE THE EQUIPMENT CABINET OR DSX LOCATION.

#### EQUIPMENT SHELTER (IF APPLICABLE)

THE CONTRACTOR PM MUST PREPARE A "SPREAD-FOOTING AND PERIMETER-TYPE" (OR PERIMETER WITH SLAB) FOUNDATION FOR THE SHELTER BASED ON SITE PLANS. DIMENSIONS AND SPECIFICATIONS (INCLUDING REBAR PLAN) WILL BE AS INDICATED ON APPROVED FINAL SITE DRAWINGS.

ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH AS SPECIFIED IN THE BUILDING SPECIFICATIONS. CONCRETE SAMPLES ARE TO BE TESTED AND THE RESULTS PROVIDED TO THE SITE DEVELOPMENT ENGINEER. IF THE RESULTS DO NOT MEET MINIMUM REQUIREMENTS AND IS DETERMINED TO BE UNACCEPTABLE, CONTRACTOR IS RESPONSIBLE FOR CORRECTING THE DEFICIENCIES.

THE GC'S FOUNDATION INSTALLATION SHALL INCLUDE:

FOUNDATION LAYOUT

EXCAVATION

REINFORCING STEEL

CONCRETE CONCRETE TESTING

PITCHING TO PREVENT WATER COLLECTION ON THE 4' X 4' SHELTER ENTRANCE

BACK FILL AND COMPACTION

COORDINATION OF SHELTER DELIVERY, OFFLOAD, AND SET, ALONG WITH ALL NECESSARY PERMITS TO TRAVERSE PUBLIC ROADS AND GAIN ACCESS TO THE SITE, AND APPROPRIATE OFFLOAD TOOLS, ARE THE RESPONSIBILITY OF THE CONTRACTOR PM (THIS APPLIES TO THINGS SUCH AS: SHELTER DELIVERY VEHICLE(S), CRANE, CULVERTS, CURB-CUTS, TRAFFIC CONTROL, ROAD RESTRICTIONS, ETC).

THE CONTRACTOR PM WILL COMMUNICATE DIRECTLY WITH THE DRIVER OF THE SHELTER DELIVERY VEHICLE TO VERIFY ACTUAL SHELTER AND CONTENTS WEIGHT - AS WEIGHED BY HIGHWAY SCALES. THE CONTRACTOR PM IS RESPONSIBLE TO COORDINATE THE APPROPRIATELY SIZED / RATED CRANE AND LIFTING EQUIPMENT (IE: SPREADER BARS, LIFTING CABLES, LIFTING SHACKLES, ETC), BASED ON THE ACTUAL WEIGHT OF SHELTER AND CONTENTS.

POWER AND EQUIPMENT BAYS (IF APPLICABLE) THE CONTRACTOR SHALL INSTALL ALL INTER-BAY CONNECTIONS ACCORDING TO THE PLANS, WHICH INCLUDE TELCO, DC CIRCUITS, ALARM CABLES, AND BATTERIES.

ALL EQUIPMENT BAY CONTACT AND SECURE POINTS ARE MADE OF ALUMINUM. IT IS EXPECTED THAT NO POWER TOOLS SHALL BE UTILIZED TO SECURE THE CARDS AND CABLES IN TO PLACE

#### ANTENNAS/COAX/POWER/FIBER

THE CONTRACTOR SHALL USE TRUE NORTH TO SET ALL ANTENNA AZIMUTHS.

THE CONTRACTOR, IN ORDER TO MEET THE PERFORMANCE REQUIREMENTS FOR E-911 FOR COMMNET, AND OTHER PERFORMANCE/QUALITY CONTROL, SHALL USE AN ANTENNA ALIGNMENT TOOL IN ORDER TO ACCURATELY CAPTURE ALIGNMENT IN AZIMUTH, TILT, ROLL AND (OPTIONALLY) AGL HEIGHT. THE CONTRACTOR SHOULD USE EQUIPMENT OF GOOD QUALITY AND PREFERRED THOUGHT THE WIRELESS INDUSTRY.

THE CONTRACTOR SHALL TRANSPORT ANTENNAS IN A MANNER THAT WILL NOT DAMAGE OR EFFECT

THE ANTENNAS PERFORMANCE AND PRE-SWEEP OR IF AVAILABLE PIM TEST PRIOR TO INSTALL.

THE CONTRACTOR SHALL INSPECT, CLEAN AND TEST FIBER CABLES PRIOR TO INSTALLING AND RECORD THE RESULTS TO CWL CM.

AND TO AVOID OVER TIGHTENING.

PROPERLY TORQUE JUMPER, COAX

ANTENNAS, CONNECTIONS TO INSURE A SECURE CONNECTION

THE CONTRACTOR WILL ATTACH ANTENNAS USING PROPER MOUNTING BRACKETS.

THE CONTRACTOR SHALL VERIFY THAT PIPE MOUNTS ARE VERTICAL (PLUMB)

THE CONTRACTOR SHALL COLD GALVANIZE SPRAY ALL DAMAGED PARTS OF THE HOT DIP GALVANIZATION.

THE CONTRACTOR SHALL INSTALL GROUNDING IN ACCORDANCE WITH THE PLANS AND MANUFACTURER'S RECOMMENDATIONS. GROUNDING KITS TO BE INSTALLED AT INTERVALS OF 100' ON TOWER.

THE CONTRACTOR SHALL INSTALL ICE—BRIDGE FROM TOWER TO THE APPROPRIATE RF BAY OR EQUIPMENT SHELTER, IF REQUIRED.

THE CONTRACTOR SHALL ROUTE SPECIFIED COAX/POWER/FIBER CABLES ALONG CABLE TRAY/ICE-BRIDGE USING HANGERS ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

THE CONTRACTOR SHALL MARK EACH COAXIAL/POWER/FIBER CABLE IN ACCORDANCE WITH THE ANTENNA/FEEDLINE COLOR CODE SHEET AS SHOWN IN THE PLANS.

THE CONTRACTOR SHALL INSTALL HOISTING GRIPS, ACCORDING TO MANUFACTURER'S RECOMMENDATIONS (AS APPLICABLE).

THE CONTRACTOR SHALL INSTALL SURGE ARRESTORS/BIAS-T. IF REQUIRED, AND BUSS BARS IN APPROVED LOCATIONS.

THE CONTRACTOR SHALL WEATHERPROOF ALL COAX CONNECTIONS IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.

THE CONTRACTOR SHALL PERFORM A "TAPE DROP" MEASUREMENT TO CONFIRM / VALIDATE ANTENNA CENTER LINE (ACL) HEIGHT.

THE CONTRACTOR SHALL INSTALL THE GROUNDING SYSTEM IN ACCORDANCE WITH THE PLAN.

THE CONTRACTOR SHALL ROUTE GROUND LEADS TO ALL GROUNDING POINTS AND GROUND LEADS BY USING EXOTHERMIC -RETURN LOSS SYSTEM W/ANTENNA CONNECTED WELDS OR APPROVED MECHANICAL COMPRESSION CONNECTIONS.

THE CONTRACTOR SHALL APPLY OXIDE—INHIBITING COMPOUND IN ALL REQUIRED LOCATIONS.

FOR NEW CONSTRUCTION, THE CONTRACTOR SHALL PERFORM A MEGGER TEST AFTER ALL ATTACHMENTS HAVE BEEN MADE TO THE EQUIPMENT AND PROVIDE READINGS TO THE CM FOR CLOSE OUT REPORTS.

IF REQUIRED, THE CONTRACTOR SHALL PROVIDE PHOTOS VERIFYING THAT ALL GROUND LEADS ARE IN PLACE AND CONNECTED TO SUBSURFACE GROUND RING PRIOR TO BACKFILLING GROUND SYSTEM EXCAVATION (CAD WELD OR BURNDY HY-GROUND CONNECTIONS BELOW GRADE).

#### MATERIALS

SECURITY AND PRESERVATION OF SITE MATERIALS AND EQUIPMENT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL PRESERVE THE ORIGINAL CONTAINER AND CONTACT CWL/CWL CM IMMEDIATELY.

THE CONTRACTOR SHALL COMPLETE INVENTORY VERIFICATION NO LATER THAN ONE (1) BUSINESS DAY AFTER RECEIPT OF MATERIALS. TO INDICATE COMPLETION OF INVENTORY, THE CONTRACTOR SHALL SIGN AND DATED A COPY OF MATERIAL LIST AND GIVE TO THE CM. ANY MISSING MATERIAL SHALL BE REPORTED THE CM IMMEDIATELY.

<u>NOTE</u>: FAILURE TO PERFORM INVENTORY VERIFICATION AS REQUIRED INDICATES ACKNOWLEDGEMENT FROM THE CONTRACTOR THAT THE MATERIALS AND EQUIPMENT WERE RECEIVED IN THEIR ENTIRETY AND THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY AND REPLACEMENT COSTS FOR EQUIPMENT SHORTAGES.

#### MISCELLANEOUS NOTES

THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE CM FOR ANY CHANGES OR DEVIATIONS FROM THE PLANS.

FOR CHANGES THAT REQUIRED ADDITIONAL COSTS, THE CM WILL COMPLETE A CHANGE ORDER FORM OUTLINE THE REASON FOR THE CHANGE AND ITS COSTS.

#### SWEEP/PIM/FIBER TEST

AFTER THE INSTALLATION OF ANTENNAS & LINES. THE GENERAL CONTRACTOR SHALL SWEEP AND TEST ALL COMPONENTS AND PROVIDE A HARD COPY REPORT OF THE RESULTS. A GRAPH PRINTOUT IS TO BE PROVIDED TO THE LOCAL NETWORK OPERATIONS MANAGER AND CM BY THE GC FOR APPROVAL. SWEEP TESTS SHOULD BE PERFORMED BY THE GC TERMINATING EACH RUN OF COAX WITH A SHORT, 50 OHM LOAD, AND ANTENNA WITH JUMPER AND PROVIDING RETURN LOSS RESULTS.

AFTER THE INSTALLATION OF FIBER TRUNKS AND JUMPERS, THE GC SHOULD PROPERLY RE-TEST THE FIBER TO CONFIRM THE RESULTS ARE WITHIN TOLERANCE OF THE MANUFACTURES SUGGESTED LIMITS.

IF CONTRACTORS OFFER PIM TESTING, PIM TEST SHOULD BE CONDUCTED ON JUMPERS AND ANTENNAS TO CONFIRM THEY ARE IN TOLERANCE AND WORKING PROPERLY.

#### PIM TESTING STANDARD

REQUIREMENTS FOR PIM TESTING TO A LOAD PASSING: -103DBM OR -146DBC TO A LOAD REQUIRES APPROVAL: -102DBM TO -97DBM (-145DBC TO -140DBC) TO A LOAD

FAILING: BELOW -96DBM (-139DBC) TO A LOAD

#### SWEEP TEST REQUIRED PER EACH COAXIAL CABLE/ANTENNA SYSTEM

-ANTENNA ON GROUND BEFORE INSTALLING ON TOWER

-RETURN LOSS WITH 50 OHM LOAD CONNECTED TO MAIN COAXIAL LINE AND JUMPER -DISTANCE TO FAULT (DTF) WITH 50 OHM LOAD CONNECTED TO MAIN COAXIAL LINE AND JUMPER

-RETURN LOSS WITH PRECISION SHORT CONNECTED TO MAIN COAXIAL LINE AND JUMPER -DISTANCE TO FAULT (DTF) WITH PRECISION SHORT CONNECTED TO MAIN COAXIAL LINE AND JUMPER

TO MAIN COAXIAL LINE AND JUMPER -DISTANCE TO FAULT (DTF) SYSTEM W/ANTENNA CONNECTED TO MAIN COAXIAL LINE AND JUMPER

-18 IS THE PASS / FAIL LINE - ALL TESTS PERFORMED FROM THE POINT AT WHICH THE JUMPERS CONNECT TO THE DVPAS INSIDE THE GSM CABINET AND AT THE JUMPER GOING INTO THE CDMA CABINET. ALL LINES, REGARDLESS OF USE, ARE TO BE TESTED.

# LEGEND



ANTENNA  $\overline{\Box}$ GROUND ACCESS WELL

GROUND BUSS BAR 

GROUND ROD

MECHANICAL GRND. CONN.

EXOTHERMIC WELD

ELECTRIC BOX TELEPHONE BOX

LIGHT POLE 0 FND. MONUMENT SPOT ELEVATION

REVISION

SET POINT

KEYED NOTE DETAIL REFERENCE

SECTION REFERENCE

CONCRETE

TELEPHONE CONDUIT

ELECTRICAL CONDUIT

CHAIN LINK FENCING

RAILROAD TRACKS

OVERHEAD SERVICE CONDUCTORS

COAXIAL CABLE

ALARM

ELEVATION REFERENCE

GROUT OR PLASTER EXISTING BRICK EXISTING MASONARY

EARTH 

4 4 4 4

GRAVEL

PLYWOOD SAND

WOOD CONT. WOOD BLOCKING

STEEL CENTERLINE \_\_\_\_\_

PROPERTY/LEASE LINE RIGHT OF WAY

> MATCH LINE WORK POINT GROUND CONDUCTOR \_\_\_\_\_\_

> > —Е——Е—

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

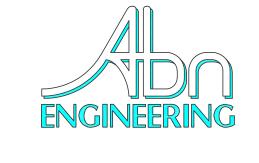
— OHU — OHU —

—RET—RET—

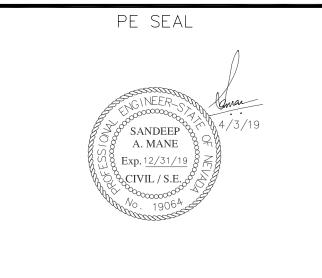
—PDU——PDU—

—— A——— A——

Commnet **Connecting Rural America** 



1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



	DESIGNER:	JASON	NGO
	LEAD EE:		SB
ľ			

	SU	BMITTALS	
REV.	DATE	DESCRIPTION	BY
Н	1/25/19	COMMENTS	JN
	2/13/19	COMMENTS	JN
J	2/18/19	COMMENTS	JN
K	2/19/19	FINAL CD	JN
	4/3/19	REVISED CD	JN

LEAD CE/SE:

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

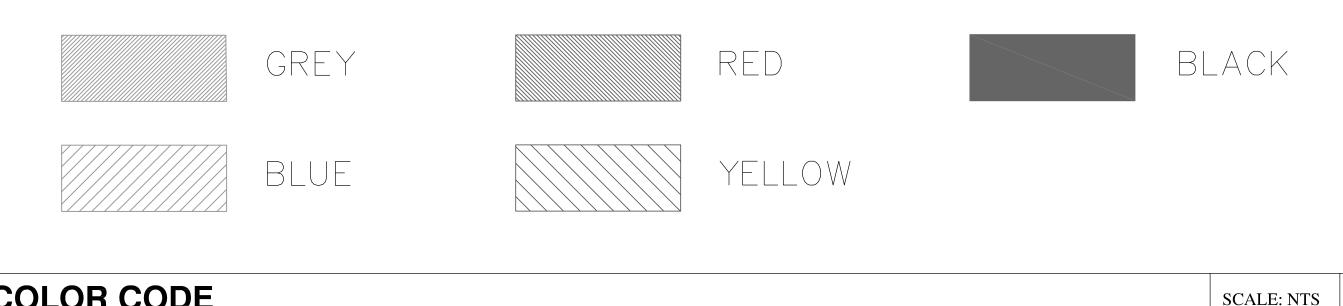
SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD

SHEET TITLE

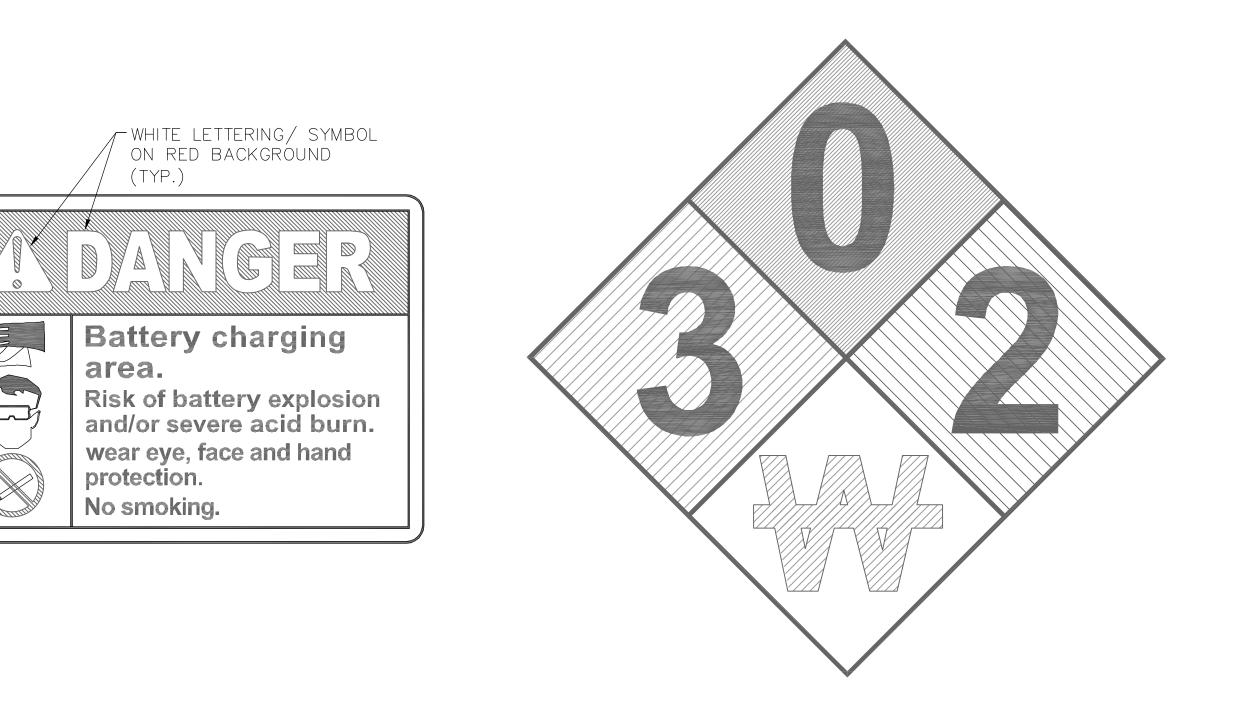
SHEET NUMBER

RET (REMOTE ELECTRICAL TILT) GERLACH, NV 89413 PDU (POWER DISTRIBUTION UNIT)

GENERAL NOTES



**COLOR CODE** SCALE: NTS



-WHITE LETTERING ON

RED BACKGROUND

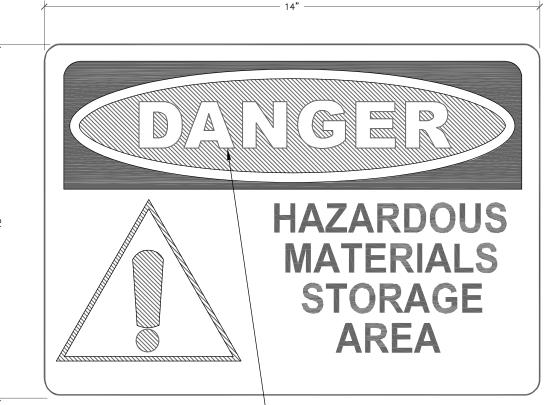
(TYP.)





THIS FACILITY CONTAINS **CORROSIVE LIQUID TOXIC LIQUID CLASS 1 WATER REACTIVE LIQUID** 





-WHITE LETTERING ON RED BACKGROUND (TYP.)

# **REQUIRED NFPA SIGNAGE**

SCALE: NTS

# HAZARDOUS MATERIALS SIGNAGE

NOTES: 1. SIGN MATERIAL: 18 GA SHEET ALUMINUM

ALLOY 6061-T6, 5052-H38, 5154-H38 OR EQUIVALENT. 2. LETTERING COLOR: NON REFLECTIVE BLACK SCREENED, CUT OUT PERMANENT OR REMOVABLE LEGEND.

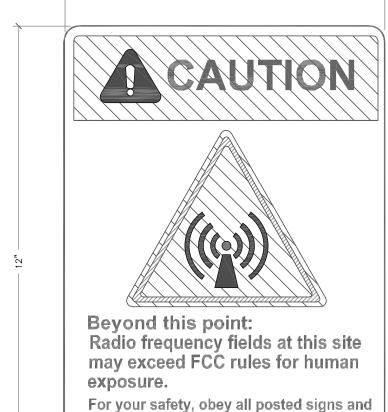
3. BACKGROUND COLORS: REFLECTIVE WHITE: SILVER WHITE ASTM TYPE III OR TYPE IV SHEETING U.N.O. NON REFLECTIVE YELLOW RED BLUE AND GREY TRANSPARENT PASTE APPLIED OVERTHE SILVER WHITE SHEETING.

- SCALE: NTS
- CONVENTIONS 5. SIGNS SHALL BE POSTED ON ACCESS GATE AND SHELTER DOOR OR OUTDOOR EQUIPMENT CABINETS

4. REFERENCE ANSI C95.2 FOR COLOR, SYMBOLS AND CONTENT

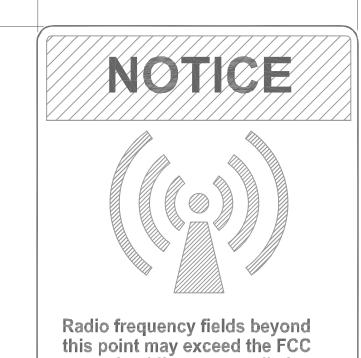
PUBLIC SAFETY NO TRESPASSING NO VANDALISM NO LOITERING **ON THIS PROPERTY** 

IN CASE OF AN EMERGENCY (720) 733-5630 COMMNET WIRELESS Site Name:



For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

NO TRESPASSING



general public exposure limit.

Obey all posted signs and site guidelines for working in radio frequency environments.

In accordance with Federal Communications Commission



Beyond this point: Radio frequency fields at this site exceed the FCC rules for human

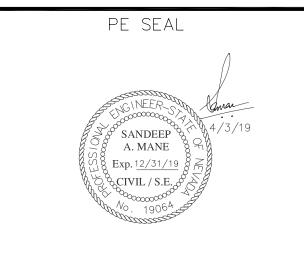
Failure to obey all posted signs and site guidelines for working in radio frequency environments could result in serious injury.

FCC# XXXX

Commnet **Connecting Rural America** 



1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



DESIGNER:	JASON	NGO
LEAD EE:		SB
LEAD CE/SE:		SAM

		SUBMITTALS				
	REV.	DATE	DESCRIPTION	BY		
4	Н	1/25/19	COMMENTS	JN		
		2/13/19	COMMENTS	JN		
	J	2/18/19	COMMENTS	JN		
	K	2/19/19	FINAL CD	JN		
	L	4/3/19	REVISED CD	JN		

THE INFORMATION CONTAINED IN THIS
SET OF DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE
OTHER THAN THAT WHICH RELATES TO
COMMNET WIRELESS IS STRICTLY
PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD

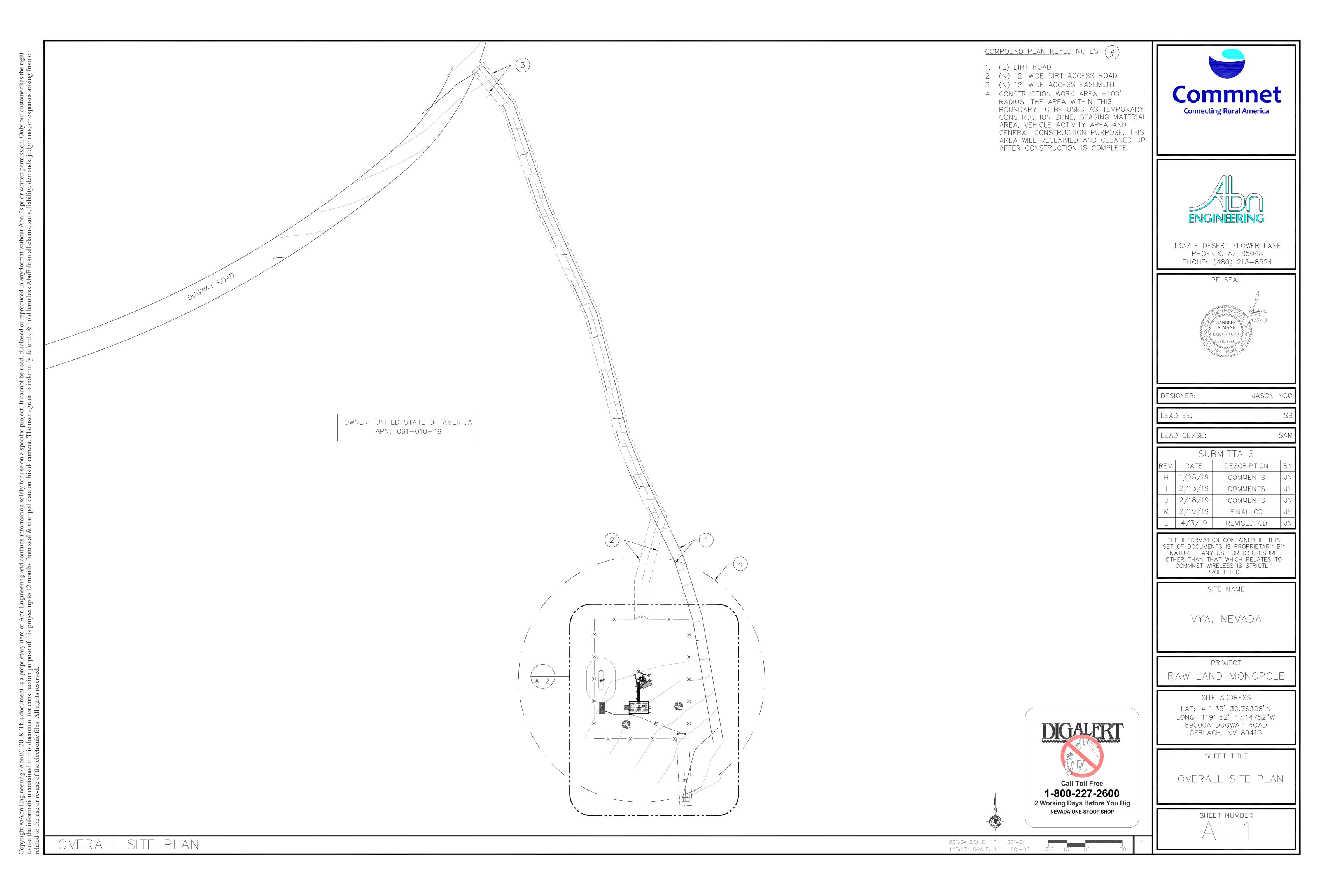
GERLACH, NV 89413

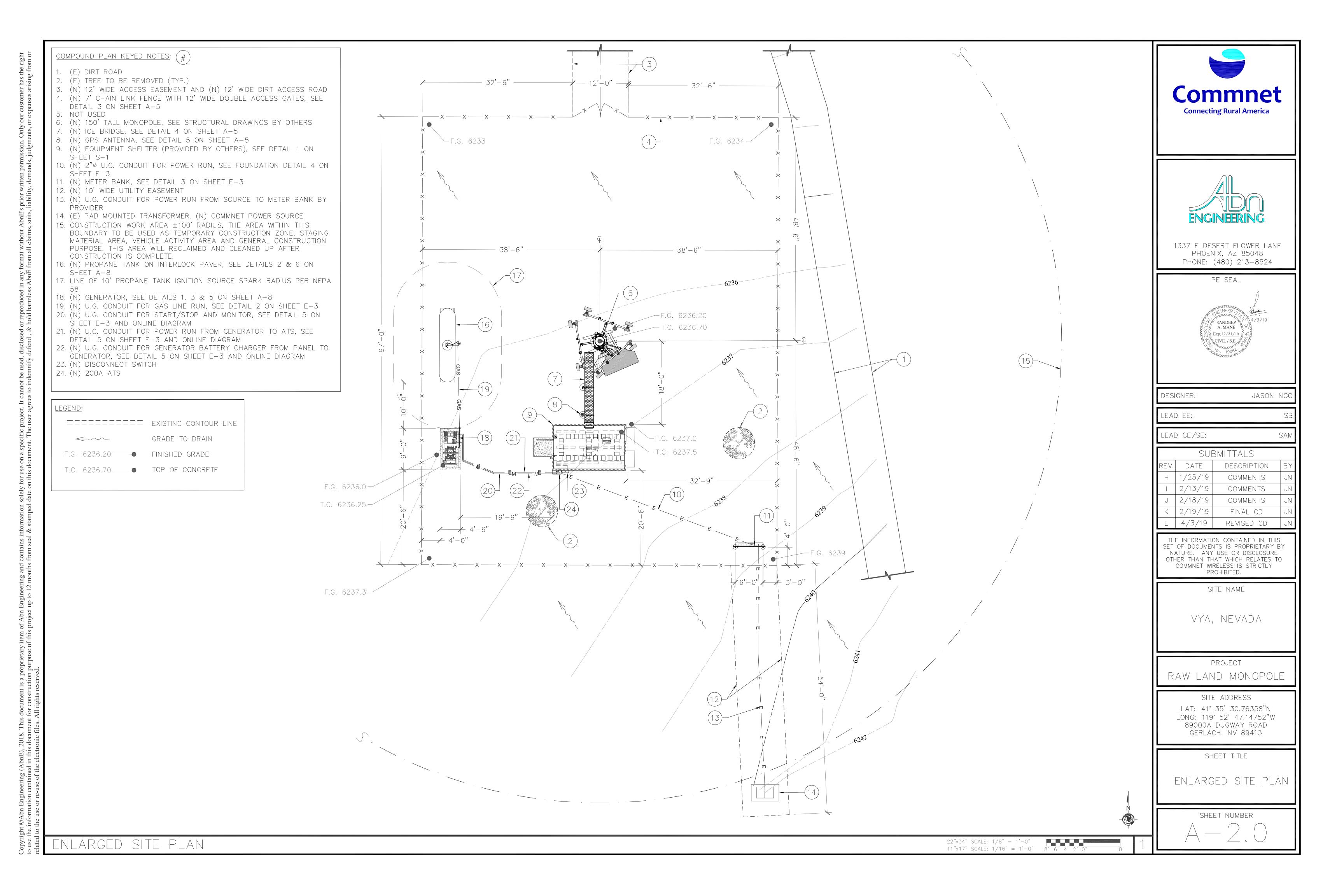
SHEET TITLE

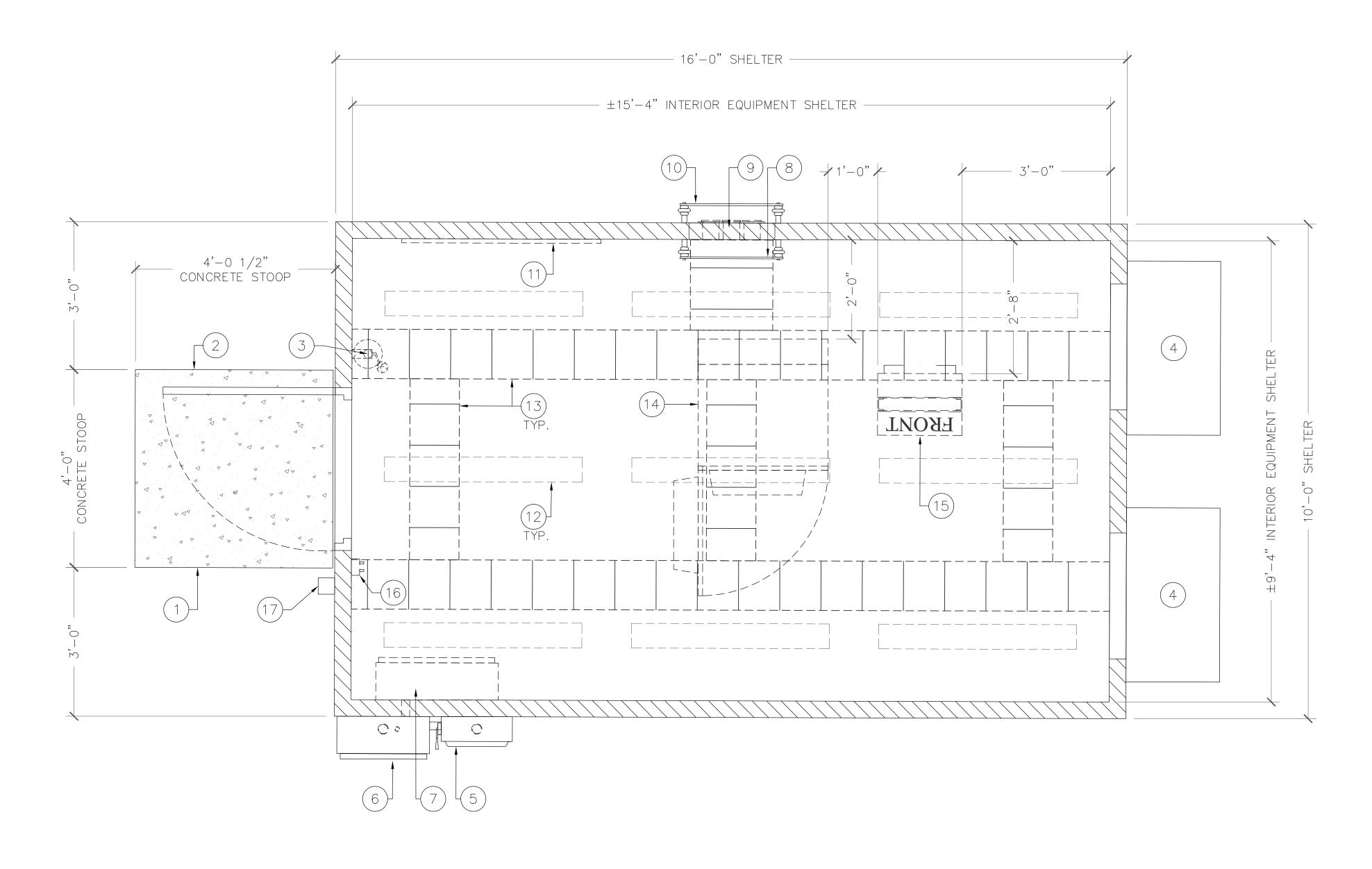
SITE SIGNAGE DETAILS

SHEET NUMBER

**RF SIGNAGE FENCE SIGNAGE** SCALE: NTS SCALE: NTS



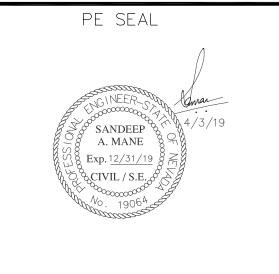








1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



DESIGNER: JASON NGC

LEAD EE: LEAD CE/SE: SAM SURMITTALS

П		301	JIVIIIIALJ	
	REV.	DATE	DESCRIPTION	BY
	Н	1/25/19	COMMENTS	JN
		2/13/19	COMMENTS	JN
	J	2/18/19	COMMENTS	JN
ı	K	2/19/19	FINAL CD	JN
	L	4/3/19	REVISED CD	JN
	,			

THE INFORMATION CONTAINED IN THIS
SET OF DOCUMENTS IS PROPRIETARY BY
NATURE. ANY USE OR DISCLOSURE
OTHER THAN THAT WHICH RELATES TO
COMMNET WIRELESS IS STRICTLY
PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

> SITE ADDRESS LAT: 41° 35′ 30.76358″N

LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD GERLACH, NV 89413

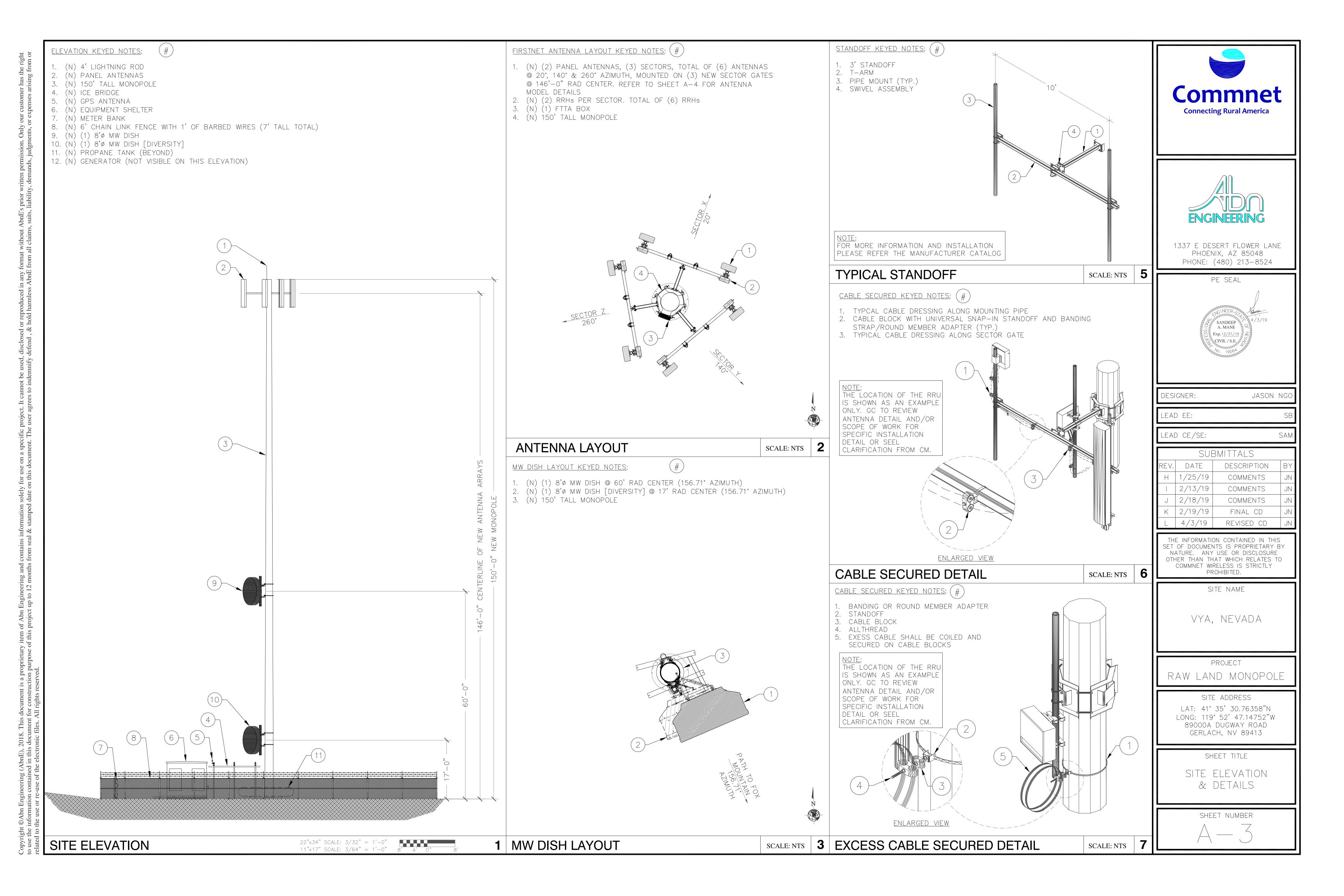
SHEET TITLE

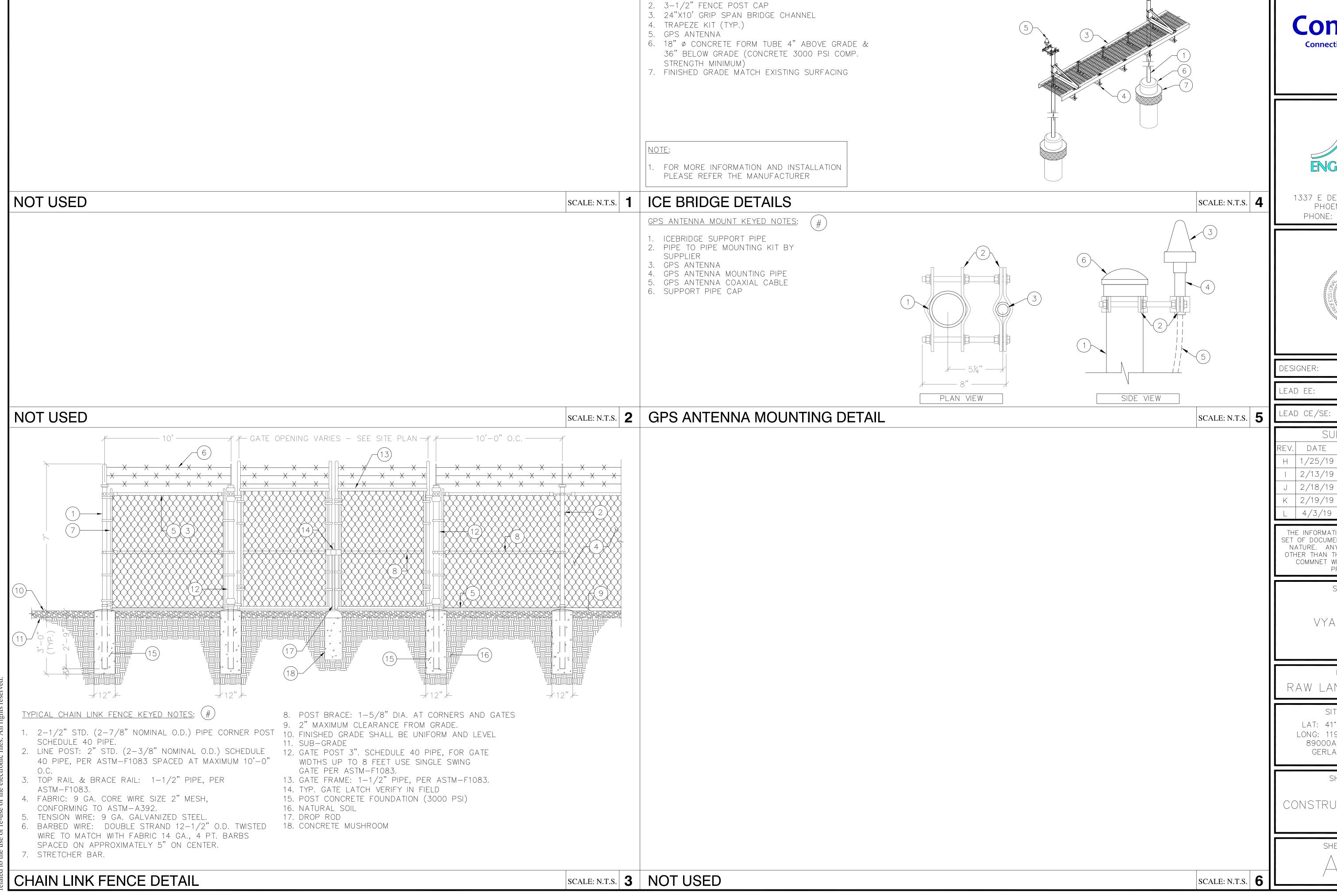
SHELTER LAYOUT

SHEET NUMBER

SHELTER LAYOUT

 $22" \times 34"$  SCALE: 3/4" = 1'-0" $11" \times 17"$  SCALE: 3/8" = 1'-0"





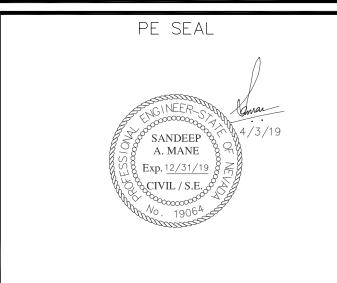
ICE BRIDGE KEYED NOTES: (#)

1. 3" SCH. 40 PIPE COLUMN,





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



DESIGNER:	JASON NGO
LEAD EE:	SB

	SUBMITTALS		
REV.	DATE	DESCRIPTION	BY
Н	1/25/19	COMMENTS	JN
1	2/13/19	COMMENTS	JN
J	2/18/19	COMMENTS	JN
K	2/19/19	FINAL CD	JN
L	4/3/19	REVISED CD	JN

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT
RAW LAND MONOPOLE

SITE ADDRESS

LAT: 41° 35' 30.76358"N

LONG: 119° 52' 47.14752"W

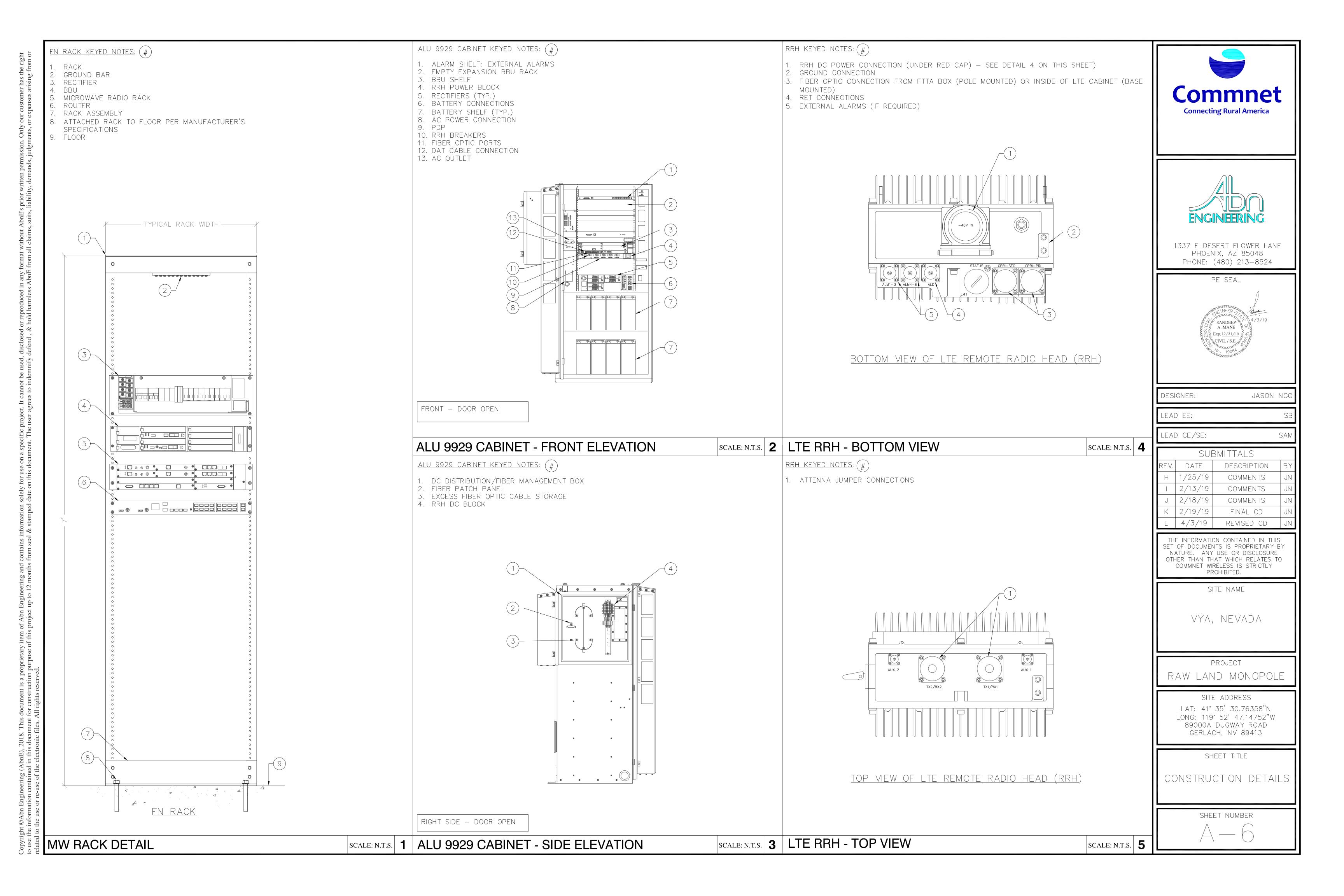
89000A DUGWAY ROAD

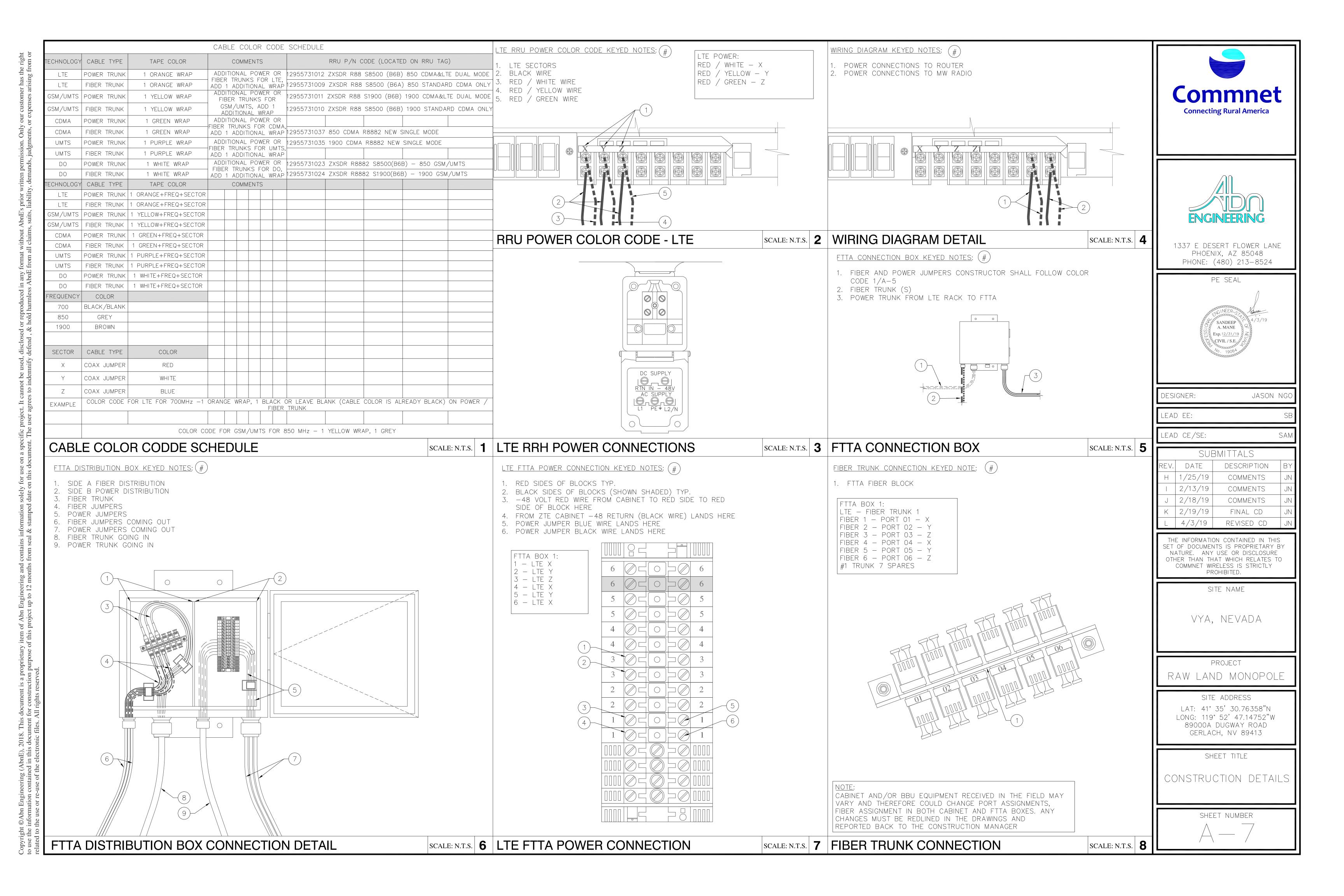
GERLACH, NV 89413

SHEET TITLE

CONSTRUCTION DETAILS

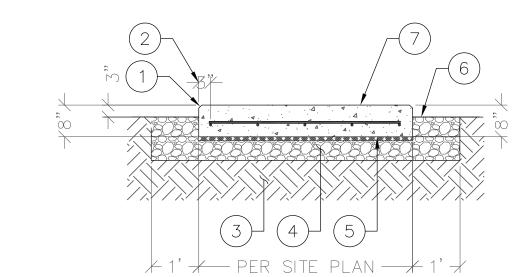
SHEET NUMBER





CONCRETE SLAB KEYED NOTES: (#)

- 3/4" CHAMFER EDGE (TYP.)
- 2. 3" REINFORCEMENT CLEARANCE FROM SLAB PERIMETER
- 4. 6" THK. MIN. CRUSHED STONE OR COMPACTED GRANULAR FILL
- 5. USE 6 MIL PLASTIC MOISTURE BARRIER
- 6. FINISHED GRADE LEVEL 7. 8" THK. SLAB W/ #4 @ 12" O.C. EACH WAY; SLAB FINISH 4" ABOVE GRADE

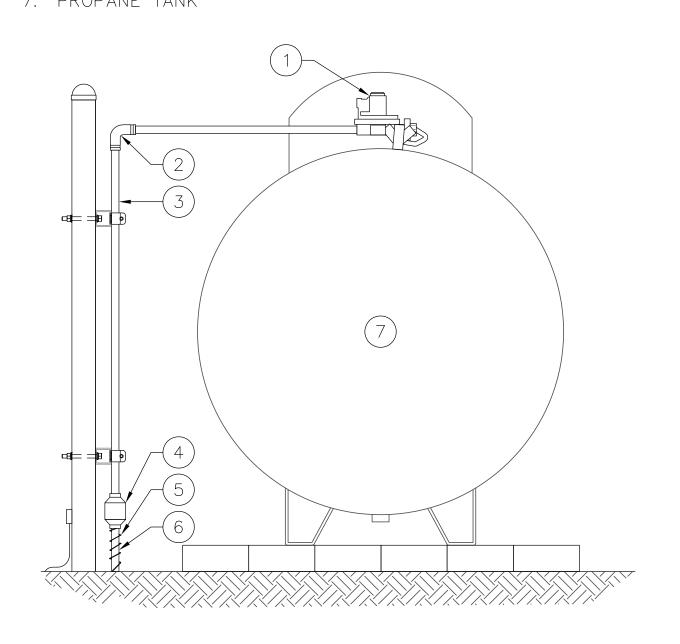


USE ITW RED HEAD TRUBOLT + WEDGE ANCHOR 1/2" DIA. ANCHOR BOLT W/ 3-1/4" MIN EMBEDMENT (TOTAL 4); VERIFY SIZE W/ MANUFACTURER SPECS.

**GENERATOR SLAB DETAILS** 

FIRST STAGE REGULATOR KEYED NOTES: (#)

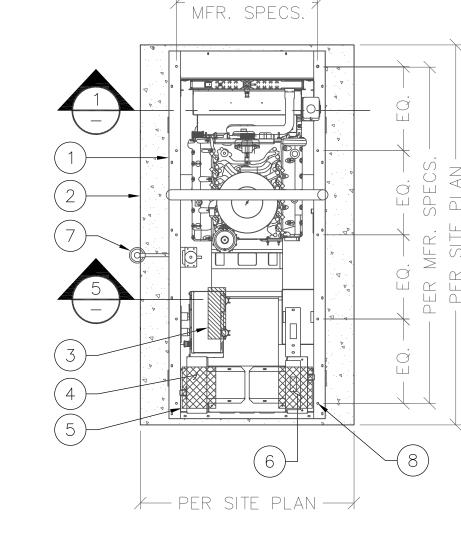
- 1. FIRST STAGE REGULATOR; COORDINATE W/ PROPANE SUPPLIER
- 2. 1-1/2" A53/53M PIPE FITTING 90° ELBOW
- 3. 1-1/2" A53/53M PIPE (VERIFY PIPE BY INSPECTOR OF RECORD
- PRIOR TO COATING WITH COAL TAR EPOXY
- 5. TRACER WIRE INSTALLED ON ALL POLYETHYLENE PIPE
- 6. 1-1/2" POLYETHYLENE PIPE 7. PROPANE TANK



GENERATOR CONCRETE SLAB KEYED NOTES:

- . OUTLINE OF GENERATOR
- 2. 3/4" CHAMFER EDGE (TYP.)
- 3. LOW VOLTAGE STUB-UP AREA (SEE NOTE 3)
- 4. PRIMARY CB CONNECTION BOX OPENING 5. PRIMARY HIGH VOLTAGE STUB-UP AREA
- 6. SECONDARY HIGH VOLTAGE STUB-UP AREA
- 7. SECOND STAGE REGULATOR, SEE DETAIL 5 ON THIS SHEET
- 8. ITW RED HEAD TRUBOLT + WEDGE ANCHOR 1/2" DIA. ANCHOR BOLT W/ 3-1/4" MIN EMBEDMENT (MIN. 4);

VERIFY SIZE W/ MANUFACTURER SPECS.



**PLAN VIEW** 

#### **GENERATOR FOUNDATION NOTES:**

- 1. VERIFY DIMENSIONS WITH GENERATOR MANUFACTURER ALONG WITH LOCATION OF BASE FRAME CONNECTIONS.
- 2. VERIFY DIMENSIONS WITH GENERATOR MANUFACTURER ALONG WITH LOCATION OF OPEN STUB-UP AREA THROUGH FUEL TANK
- 3. CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN THE LOW VOLTAGE CONNECTION BOX (USE LOW VOLTAGE STUB UP AREA)
- 4. REMOVE ALL LOOSE INORGANIC OR UNSUITABLE SOIL TO UNDISTURBED BEARING STRATA W/ ALLOWABLE SOIL BEARING PRESSURE OF 1500 PSF.

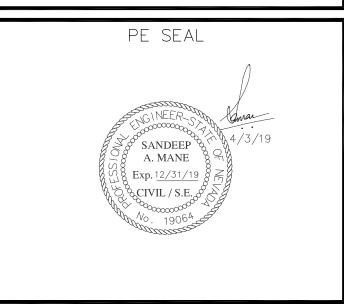
5. CONCRETE STRENGTH SHALL BE 2500 PSI,

- 6. SUB-GRADE SHALL BE COMPACTED 95% AND INDEPENDENTLY TESTED.
- 7. GENERAL SUBCONTRACTOR TO FOLLOW SUBGRADE PREPARATION STATED IN GEOTECHNICAL REPORT

Commnet **Connecting Rural America** 



1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



JASON NGC DESIGNER:

	LEAD EE:	SB
N.T.S. <b>3</b>	LEAD CE/SE:	SAM

SUBMITTALS									
REV.	DATE	DESCRIPTION	BY						
Н	1/25/19	COMMENTS	JN						
	2/13/19	COMMENTS	JN						
J	2/18/19	COMMENTS	JN						
K	2/19/19	FINAL CD	JN						
L	4/3/19	REVISED CD	JN						

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED.

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W

89000A DUGWAY ROAD

GERLACH, NV 89413

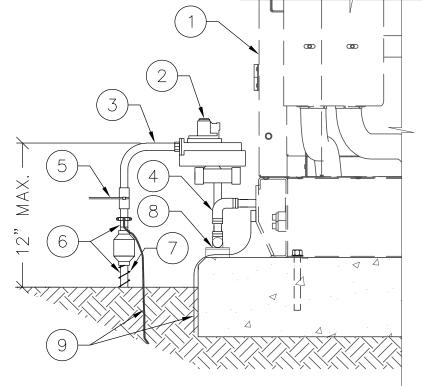
CONSTRUCTION DETAILS

SHEET TITLE

SHEET NUMBER

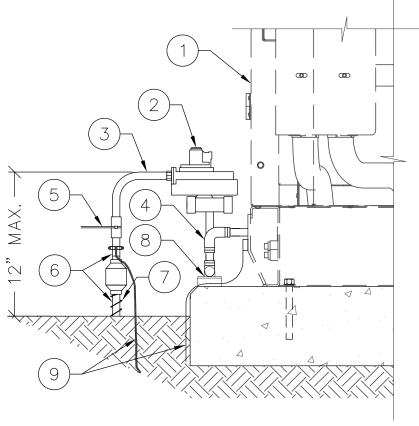
#### **GENERATOR CONC. SLAB DETAIL 1ST STAGE REGULATOR DETAIL**

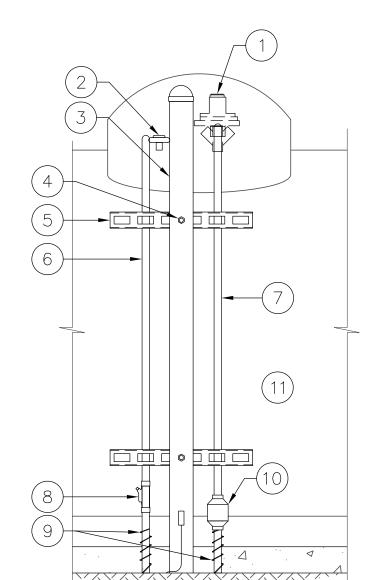
- 2ND STAGE REGULATOR KEYED NOTES: (#) 1. OUTDOOR GENERATOR. SECOND STAGE REGULATOR - CONTRACTOR TO VERIFY WITH GENERATOR MANUFACTURER PRIOR TO INSTALL.
- 3. 1-1/2" A53/53M PIPE (VERIFY PIPE BY INSPECTOR PRIOR TO COATING WITH COAL TAR EPOXY).
- 4. 1-1/2" A53/53M PIPE FITTING 90° ELBOW.
- 5. SHUT OFF VALVE.
- 6. 1-1/2" POLYETHYLENE PIPE.
- 7. TRACER WIRE INSTALLED ON ALL POLYETHYLENE PIPE.
- 8. STRUT STRAP & P-1000T UNISTRUT ANCHORED TO CONC. SLAB W/ 1/4"ø x2" (L) RED HEAD HAMMER-SET NAIL DRIVE OR EQUIV.
- 9. MECHANICAL GROUND & #2 TINNED GROUND LEAD TO EXTERIOR GROUND



MONITOR & GAS LINE KEYED NOTES: (#)

- FIRST STAGE REGULATOR; COORDINATE WITH PROPANE SUPPLIER
- 2. REMOTE READY HALL EFFECT MODULE TWINSITES AND R3D HALL EFFECT MODULE
- 3. 2"ø STAND OFF PIPE CALLED 4' ABOVE GRADE WITH 18" EMBEDMENT IN CONCRETE PIER 4. 3/8" GALV. THRU BOLT (TYP.)
- 5. 14" LONG P1000T UNISTRUT WITH SUPERSTRUT PIPE STRAP (TYP.)
- 6. 3/4" SCH. 40 UV RATED PVC PIPE 7. 1-1/2" A53/53M PIPE (VERIFY PIPE BY INSPECTOR OF RECORD PRIOR TO COATING WITH COAL TAR EPOXY)
- 8. EXPLOSION- PROOF FITTING RESPA-EYF75-AL 9. TRACER WIRE INSTALLED ON ALL
- POLYETHYLENE PIPE 10. PIPE FITTING
- 11. PROPANE TANK



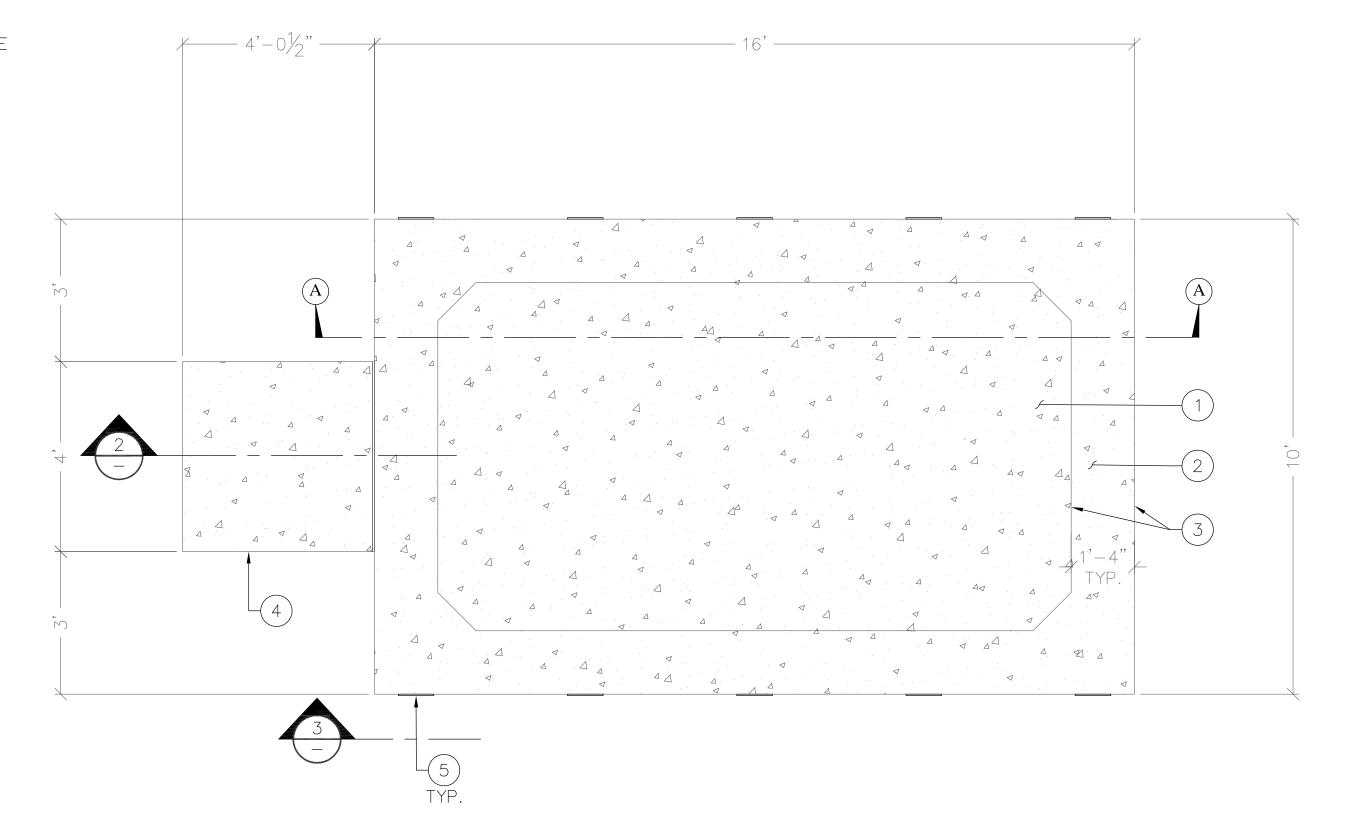


**NOT USED** 2ND STAGE REGULATOR DETAIL

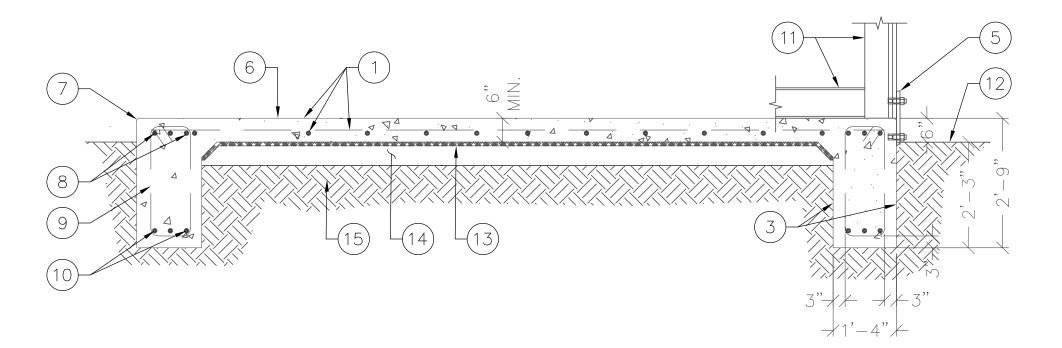
N.T.S. 5 | MONITOR & GAS LINE DETAIL

N.T.S. **6** 

- 6" CONCRETE SLAB W/ #4 @ 8" O.C. EACH WAY 2. (3) #5 CONTINUOUS REINFORCING TYP. TOP & BOTTOM
- ÒF PERIMETER FOOTING
- 3. TYPICAL TURNDOWN AT PERIMETER 4. CONCRETE STOOP (TYP.)
- 5. ANCHOR BOLTS AND TIÉ DOWN PLATE IN ACCORDANCE WITH MANUFACTURER'S SHELTER DRAWINGS
- 6. USE SPRAY ON CURING AGENT
- 7. MIN. 1/2" CHAMFER ON ALL EXPOSED EDGES BOTH vertical & horizontal 8. (3) #5 TOP
- 9. #4 STIRRUPS @ 14" O.C. (TYP.)
- 10. (3) #5 BOTTOM
- 11. SHELTER WALL AND FLOOR
- 12. FINISH GRADE 13. 6 MIL PLASTIC MOISTURE BARRIER
- 14. 6" THK MIN. CRUSHED STONE OR COMPACTED GRANULAR FILL (SEE NOTE 6), ALSO REFER GEOTECHNICAL REPORT FOR REQUIRED BACKFILL SPECIFICATION
- 15. FILL TO LEVEL W/ NATURAL BACKFILL
- SHELTER FOUNDATION NOTES
- 1. CONTRACTOR TO VERIFY DIMENSIONS WITH SHELTER MANUFACTURER.
- 2. REMOVE ALL LOOSE INORGANIC OR UNSUITABLE SOIL TO UNDISTURBED BEARING STRATA W/ ALLOWABLE SOIL
- BEARING PRESSURE OF 1500 PSF. 3. CONCRETE STRENGTH SHALL BE 4000 PSI,
- 4. SLAB SHALL BE LEVEL ±1/4"
- 5. SHELTER TIE DOWN DETAIL PROVIDED BY
- SHELTER MANUFACTURER. 6. SUB-GRADE SHALL BE COMPACTED 95%.
- 7. FINISH SLAB ELEVATION TO BE 6" ABOVE HIGHEST ADJACENT EXISTING GRADE



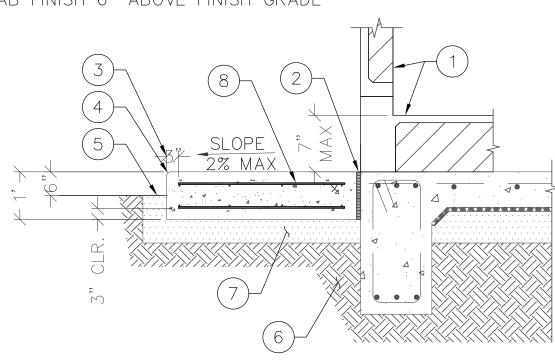
**PLAN** 



SECTION "A-A"

TYPICAL CONCRETE STOOP KEYED NOTES: (#)

- 1. SHELTER WALL AND FINISHED FLOOR
- 2. ½" NEOPRENE FILLER
- 3. 3" REINFORCEMENT CLEARANCE FROM SLAB PERIMETER
- 4. ¾" CHAMFER EDGE (TYP.) 5. TRANSITION FINISH GRADE
- 6. NATURAL SOIL OR BEDROCK
- 7. 6" THK MIN. CRUSHED STONE OR COMPACTED GRANULAR FILL (SEE NOTE 6), ALSO REFER GEOTECHNICAL REPORT FOR REQUIRED BACKFILL SPECIFICATION
- 8. 12" SLAB WITH #5 @ 12" O.C. EACH WAY TOP & BOTTOM, SLAB FINISH 6" ABOVE FINISH GRADE

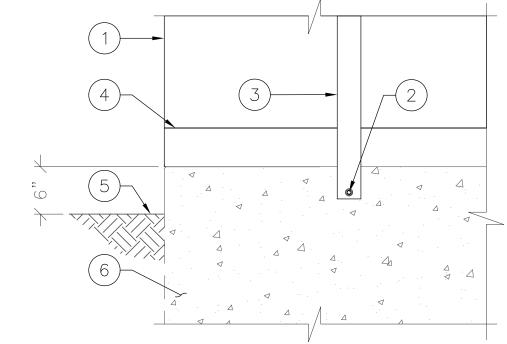


# **CONCRETE STOOP DETAIL**

SCALE: N.T.S. 2

## SHELTER ANCHOR KEYED NOTES: (#)

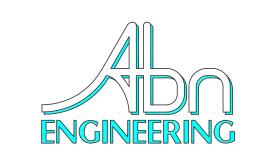
- 1. SHELTER
- 2. ANCHOR BOLT SUPPLIED BY MANUFACTURER (TYP.)
- 3. STEEL TIE DOWN TRAP PROVIDED BY SHELTER MANUFACTURER (VERIFY W/ SHELTER MANUFACTURER)
- 4. SHELTER FLOOR
- 5. FINISH GRAVEL LEVEL 6. CONCRETE TURNDOWN AT PERIMETER



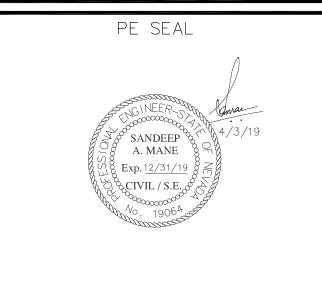
### SHELTER ANCHORING DETAIL

SCALE: N.T.S. 3





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



DESIGNER: JASON NGC

	LEAD	) EE:		SB								
	IFAL		SAM									
		) CE/SE:		J/ (IVI								
		SUBMITTALS										
	REV.	DATE	DESCRIPTION	BY								
	Н	1/25/19	COMMENTS	JN								
•	1	2/13/19	COMMENTS	JN								
	J	2/18/19	COMMENTS	JN								

K 2/19/19

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED.

FINAL CD

REVISED CD

SITE NAME

VYA, NEVADA

PROJECT

RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD GERLACH, NV 89413

SHEET TITLE

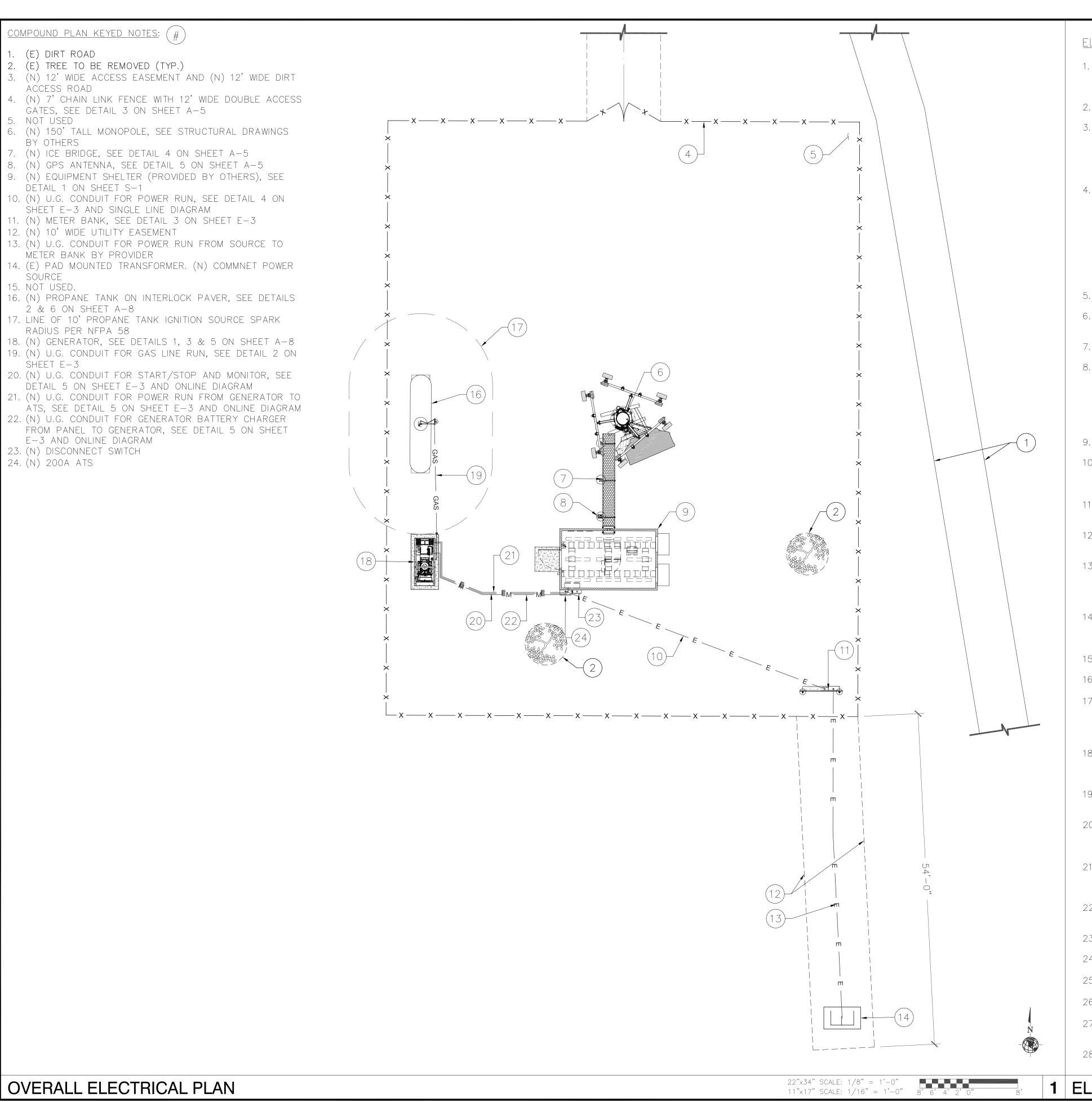
SHELTER FOUNDATION DETAILS

SHEET NUMBER

SHELTER FOUNDATION DETAILS

SCALE: N.T.S. 1 NOT USED

SCALE: N.T.S. 4



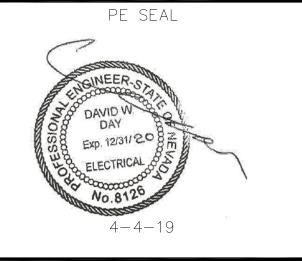
#### ELECTRICAL GENERAL NOTES:

- 1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT. CONTRACTOR IS RESPONSIBLE FOR ALL FIELD VERIFICATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, AND ARE NOT TO BE
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. AS REQUIRED FOR A COMPLETE AND PROPERLY OPERABLE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY (UL) AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION (AHJ). MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA, AND NBFU.
- 5. ALL CONDUIT INSTALLED SHALL BE SURFACE MOUNTED UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES
- ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY ELECTRICAL PERMITS, AND PAY ALL REQUIRED FEES.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF NO LESS THAN ONE YEAR AFTER THE DATE OF JOB COMPLETION. DATE OF JOB COMPLETION SHALL BE THE DATE ON THE CONTRACTOR'S "NOTICE OF COMPLETION" SUBMITTED TO THE OWNER. ANY WORK, MATERIAL, OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE, AND TRUE TAPE.
- 10. ELECTRICAL CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE SET OF COMPLETE ELECTRICAL "AS BUILT" DRAWINGS, SHOWING ACTUAL DIMENSIONS AND CIRCUITS, WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
- 11. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO PROJECT MANAGER AT JOB COMPLETION.
- 12. USE T-TAP CONNECTIONS ON ALL MULTI-CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE. ALL CONDUCTORS SHALL
- 13. THE EXTERIOR GROUND RING SHALL BE TESTED PER COMMNET WIRELESS SPECIFICATIONS USING A 3-POINT FALL OF POTENTIAL TEST. IF THE GROUNDING SYSTEM RESISTANCE TO EARTH IS GREATER THAN 5 OHMS, THE ELECTRICAL CONTRACTOR SHALL NOTIFY THE RESPONSIBLE ENGINEER.
- 14. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN AMP INTERRUPT RATING (AIC) NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
- 15. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- 16. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
- 17. IN DRILLING HOLES INTO CONCRETE (WHETHER FOR FASTENING OR ANCHORING PURPOSES OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC.) IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND REBARS WILL NOT BE DRILLED INTO, CUT, OR DAMAGED UNDER ANY CIRCUMSTANCES.
- 18. LOCATION OF TENDONS AND REBARS ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY, OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING STEEL TENDONS.
- 19. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH APPLICABLE LOCAL BUILDING CODES, USING U.L. RATED MATERIALS.
- 20. ELECTRICAL CONTRACTOR IS TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOK-UP COSTS SHALL BE PAID BY THE CONTRACTOR.
- 21. ELECTRICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND/OR CATALOG CUT-SHEETS ON ALL NON-SPECIFIED ORIGINAL MATERIALS AND EQUIPMENT, TO PROJECT MANAGER PRIOR TO COMMENCEMENT OF THE WORK.
- 22. ALL GROUNDING SYSTEM LEADS SHALL BE TESTED FOR CONTINUITY WITH THE GROUND LOOP CONDUCTOR. ALL FAULTY CONNECTIONS OR CONDUCTORS SHALL BE REPAIRED OR REPLACED AS REQUIRED.
- 23. CLEAN PREMISES DAILY OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK PREMISES IN A COMPLETE AND UNDAMAGED CONDITION.
- 24. ALL EXTERIOR WALL PENETRATIONS SHALL BE SEALED WITH POLYSEAM
- 25. ALL #2 TINNED BARE COPPER DOWNLEADS TO BE PROTECTED BY ½" P.V.C. PIPE AND SECURED.
- 26. COMPRESSION FITTINGS TO BE USED ON ALL CONDUITS (NO
- 27. ALL #6 STRANDED COPPER WITH GREEN INSULATION TO BE ATTACHED WITH CRIMPED DOUBLE LUG, ATTACHED WITH NUTS, BOLTS AND STAR WASHERS TYPICAL AND NO-OX GREASE BETWEEN LUG AND BUSS BAR.
- 28. ALL ABOVE GROUND CONDUIT SHALL BE SCHEDULE 80 PVC WITH UV PROTECTION OR GRC.





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



ESIGNER: JASON NGO

LEAD EE:

.EAD CE/SE:

SUBMITTALS EV. DATE DESCRIPTION 1/25/19 COMMENTS 2/13/19 COMMENTS | | 2/18/19 | COMMENTS FINAL CD

> THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED

4/3/19 | REVISED CD

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD GERLACH, NV 89413

SHEET TITLE

OVERALL ELECTRICAL PLAN & ELECTRICAL NOTES

SHEET NUMBER

ELECTRICAL NOTES

SCALE: NTS

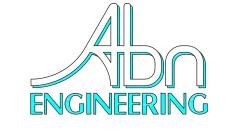
EQUIPMENT GROUNDING CONDUCTORS

OVERCURRENT DEVICE

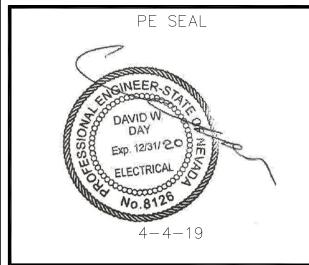
FAULT CURRENT CALCULATION TABLE																
MAIN UTILITY COMPANY TRANSFORMER AFC AT TRANSFORMER KVA UTILITY																
1Ø 120/240V -200A 50 13,889 A																
CONFIGURATION					FEEDE	 R		S	YSTEM							
FROM	ТО	LEN	IGTH	AVAILABLE FAULT CURRENT	FEEDER SIZE	FEEDERS PER PHASE	WIRE CONSTANT	LINE TO LINE VOLTS	XFMR SECONDARY VOLTS	PHASE	KVA	%Z	MOTOR LOAD	FAULT CURRENT AT EQUIPMENT	FULL OR SERIES RATED	MINIMUM SYMMETRICAL EQUIPMENT AIC RATING
TRANSFORMER	600A TERM.	BOX 60'	-O"	13,889 AIC	350 CU	2	22,737	240 V		1Ø		_	OHP	12,042 AIC	FULL	22,000 AIC
METER	200A DISCO	NNECT 50'	-0"	12,042 AIC	3/0 CU	1	12,844	240 V		1Ø		_	OHP	8,658 AIC	FULL	10,000 AIC

- 1 20 18 NOTE: DISTANCES INDICATED ARE FOR FAULT-CURRENT ANALYSIS ONLY. CONTRACTOR SHALL USE FIELD MEASUREMENTS ESTABLISH CONDUCTOR LENGTHS FOR ORDERING - 1 30 20 | PURPOSES. CALCULATIONS ARE BASED ON A 50KVA TRANSFORMER AND (2) RUNS 350mcm CU FROM TRANSFORMER TO METERBANK. PLEASE CONTACT ENGINEER IF 22 SIZE IS DIFFERENT.





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



JASON NGO ESIGNER:

LEAD EE:

LEAD CE/SE:

SCALE: N.T.S. 3	SUBMITTALS								
	REV.	DATE	DESCRIPTION	BY					
	Н	1/25/19	COMMENTS	JN					
	1	2/13/19	COMMENTS	JN					
	J	2/18/19	COMMENTS	JN					
	K	2/19/19	FINAL CD	JN					
	L	4/3/19	REVISED CD	JN					

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

SITE ADDRESS LAT: 41° 35′ 30.76358″N LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD

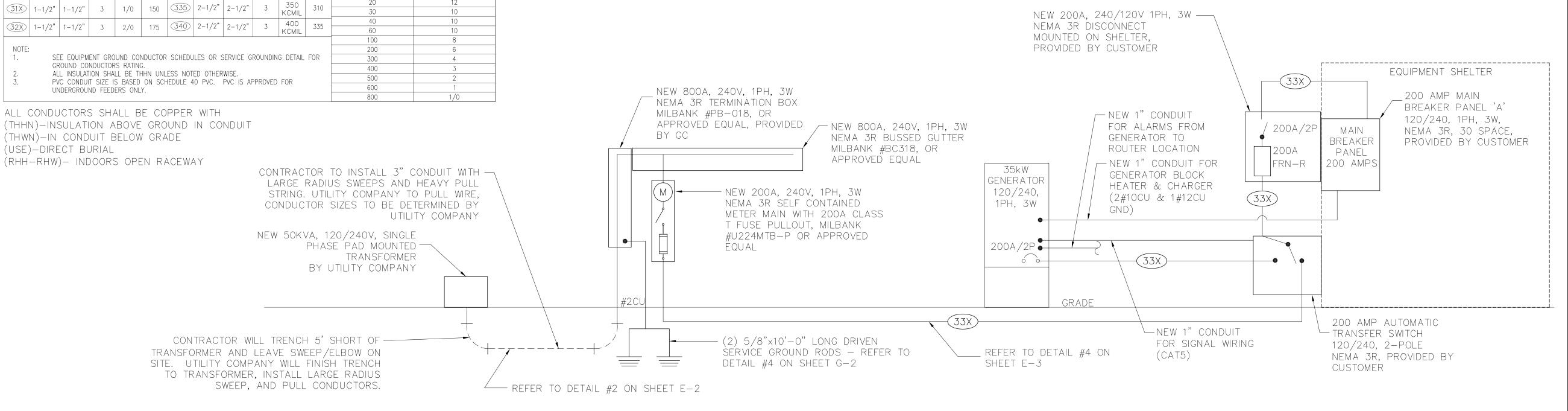
SHEET TITLE

ONE LINE DIAGRAM

SCALE: N.T.S. 1 FAULT CURRENT CALCULATIONS

1. ALL EQUIPMENT SHOWN IS NEW UNLESS OTHERWISE NOTED. 2. CONTRACTOR TO INSTALL AC DISCONNECT AT

SHELTER FOR EACH HVAC UNIT.



**ONE-LINE DIAGRAM** 

ILC PANEL SCHEDULE 'A'

**COPPER FEEDER SCHEDULE** 

38 3/4" 3/4" 3 #8 50 33X 2" 2" 3 3/0 200 350 3" 2-1/2" 3 500 KCMIL 380

33 1" 1" 3 #3 100 34X 2" 2" 3 4/0 230 360 3-1/2" 3-1/2" 3 600 KCMIL

32 | 1-1/4" | 1-1/4" | 3 | #2 | 115 | 325 | 2" | 2" | 3 | 250 | 255

31 1-1/4" 1-1/4" 3 #1 130 330 2-1/2" 2-1/2" 3 300 KCMIL 285

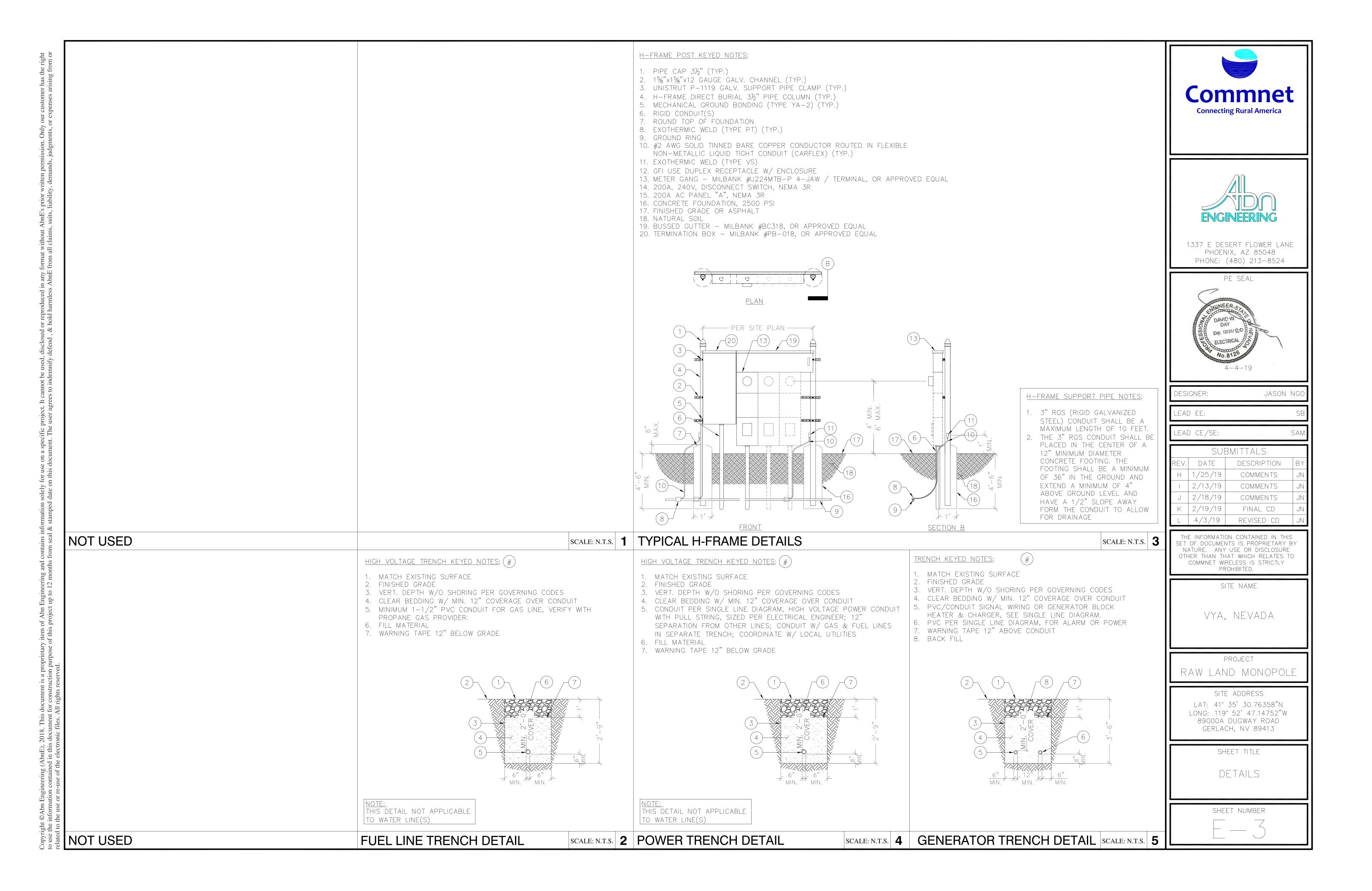
CONDUIT SIZE CONDUCTORS 75°C AMP PVC EMT QUAN. SIZE RATING PVC EMT QUAN. SIZE CONDUCTORS 75°C AMP RATING PVC EMT QUAN. SIZE RATING

SCALE: N.T.S. 2

GERLACH, NV 89413

PANEL SCHEDULE &

SHEET NUMBER



LEGEND:

TINNED SOLID ALLOY 110 COPPER POLE BUSS BAR BONDED TO ├─TGB ─

POLE STEEL.

5/8" DIA. x 10' COPPER CLAD GROUND ROD. REFER TO DETAIL 7 ON SHEET G-2.

GROUND RING, REFER TO DETAIL 6 ON SHEET G-2.

EXOTHERMIC WELD OR IRREVERSIBLE HIGH-COMPRESSION CRIMP.

MECHANICAL CONNECTION.

#### **GENERAL NOTES:**

- A. THESE DRAWINGS REPRESENT THE GENERAL EXTENT AND ARRANGEMENT OF SYSTEMS, BUT ARE NOT TO BE CONSIDERED FABRICATION DRAWINGS. COORDINATE WITH OTHER TRADES, AND PROVIDE EACH SYSTEM COMPLETE, INCLUDING ALL NECESSARY COMPONENTS, FITTINGS AND OFFSETS.
- B. INSTALL SYSTEMS SUCH THAT REQUIRED CLEARANCE AND SERVICE ACCESS SPACE IS PROVIDED AROUND ALL MECHANICAL AND ELECTRICAL EQUIPMENT, AND AROUND ANY COMPONENTS WHICH REQUIRE SERVICE ACCESS.
- C. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL SYSTEMS.
- D. REFER TO G-2 FOR GROUNDING DETAILS.
- E. ALL METALLIC SURFACES SHALL BE PREPARED PRIOR TO BONDING, COLD GALV. SPRAY SHALL BE USED ON ANY EXOTHERMIC WELD TO PREVENT CORROSION, ANY AREA TO BE COLD GALV. SPRAY SHALL BE TAPED OFF PRIOR TO APPLICATION.

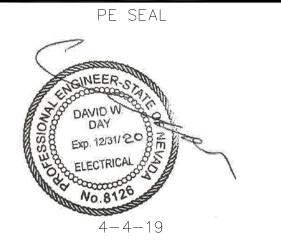
#### CONSTRUCTION KEYED NOTES: (#)

- . GROUNDING ELECTRODE CONDUCTOR SYSTEM (GROUND RING), #2 AWG SOLID BARE TINNED COPPER CONDUCTOR. GROUNDING ELECTRODE CONDUCTOR SHALL BE BURIED 30" BELOW GRADE WHERE APPLICABLE. ABOVE GRADE GROUNDING ELECTRODE CONDUCTOR TO BE ROUTED IN FLEXIBLE NON-METALLIC LIQUID TIGHT CONDUIT & FASTENED TO CONCRETE SURFACE EVERY 3' MAX. FASTENERS SHALL BE FLEXIBLE CONDUIT HALF STRAPS W/ 1/4"ø x 2" (L) RED HEAD HAMMER-SET NAIL DRIVE ANCHOR OR EQUIV. (TYP.) 2. 5/8" DIA. x 10' LONG COPPER CLAD GROUND ROD PLACED MINIMUM EVERY 10'
- APART (TYP.). REFER TO DETAIL 4 ON SHEET G-2. 3. SERVICE 5/8" DIA. x 10' LONG COPPER CLAD GROUND ROD PLACED MINIMUM
- EVERY 10' APART (TYP. OF 2). REFER TO DETAIL 4 ON SHEET G-2. 4. BOND H-FRAME & ELECTRICAL BOX TO GROUND RADIAL (TYP.), REFER TO
- DETAIL 3 ON SHEET E-2.
- 5. BOND ICE BRIDGE POST TO POLE GROUND RING (TYP.).
- 6. BOND POLE BASE PLATE (AT MANUFACTURER INSTALLED BONDING TAB) TO GROUND RING. UNDER NO CIRCUMSTANCES WILL EXOTHERMIC WELDING BE PERMITTED ON THE POLE TRUNK, TYPICAL 3 LOCATIONS.
- 7. BOND POLE GROUND BUSS BAR TO POLE GROUND RING WITH #2 AWG, TYP. OF 2 CONNECTIONS
- 8. BOND RRHS TO ANTENNA GROUND BUS BAR WITH #6 AWG (TYP.)
- 9. ATTACHED ANTENNA GROUND BUS BAR SECTOR GATE (TYP.)
- 10. BOND GATE TO GATE POST VIA #2 GATE BOND JUMPER (TYP.). REFER TO DETAIL 5 ON SHEET G-2
- 11. BOND TO FENCE FABRIC SUPPORT POST. REFER TO DETAIL 5 ON SHEET G-2 (TYP.)
- 12. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR (TYP.)
- 13. #2 AWG SOLID BARE TINNED COPPER EQUIPMENT SHELTER GROUND RING
- 14. EQUIPMENT SHELTER GROUND RING TO POLE GROUND RING WITH #2 AWG (TYP. OF 2 CONNECTIONS)
- 15. EXTERIOR GROUND BUS BAR (EGB). BOND TO GROUND RING WITH (2) #2 AWG SOLID TINNED BARE COPPER CONDUCTORS. IN ADDITION, BOND ENTRY PANEL TO EGB WITH #2 AWG THHN COPPER CONDUCTOR PER SHELTER MANUFACTURER SPECIFICATIONS (TYP.)
- 16. MAIN GROUND BUS BAR (MGB) INSTALLED BY SHELTER MANUFACTURER
- 17. INTERIOR GROUNDING HALO SUPPLIED AND INSTALLED BY GC
- 18. BOND ATS & DISCONNECT TO GROUND RING WITH #2 AWG SOLID TINNED BARE COPPER CONDUCTOR
- 19. SHELTER A/C UNIT. BOND TO GROUND RING WITH #2 AWG SOLID TINNED BARE COPPER CONDUCTOR. BONDING ON THE SHELTER A/C UNIT HOUSING SHALL BE MECHANICAL ONLY (TYP.).
- 20. BOND GENERATOR TO GROUND RADIAL WITH #2 AWG
- 21. BOND PROPANE TANK LEG TO GROUND RADIAL WITH #2 AWG
- 22. BOND SUPPORT PIPE TO GROUND RADIAL WITH #2 AWG





1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 PHONE: (480) 213-8524



DESIGNER:	JASON	Ν

LEAD EE:

LEAD CE/SE:

SUBMITTALS EV. DATE DESCRIPTION | 1/25/19 COMMENTS | 2/13/19 | COMMENTS 2/18/19 COMMENTS FINAL CD

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO COMMNET WIRELESS IS STRICTLY PROHIBITED

4/3/19 | REVISED CD

SITE NAME

VYA, NEVADA

PROJECT RAW LAND MONOPOLE

> SITE ADDRESS LAT: 41° 35′ 30.76358″N

LONG: 119° 52' 47.14752"W 89000A DUGWAY ROAD GERLACH, NV 89413

SHEET TITLE

GROUNDING PLAN

SHEET NUMBER

 $22" \times 34"$  SCALE: 3/16" = 1'-0" $11"\times17"$  SCALE: 3/32" = 1'-0"

**GROUNDING PLAN** 

