

# **Limited Biological Resources Report**

September 24, 2024



US-CA-5825 Nightmare Rock 1203 Lubken Canyon Road Lone Pine, Inyo County, California 93526 Trileaf # 749151

Prepared For: **VB BTS II LLC** 750 Park of Commerce Drive Boca Raton, FL 33487 Prepared By: **Trileaf Corporation** 1515 Des Peres Road, Suite 200 St. Louis, MO 63131

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### **1. INTRODUCTION**

This report contains the findings of a Biological Assessment conducted by Trileaf Corporation (Trileaf) on a proposed VB BTS II LLC candidate, US-CA-5825 Nightmare Rock, in Inyo County, California. The project site is generally located generally east of Tuttle Creek Road and south of Indian Springs Drive, and is depicted on the Lone Pine, California U.S. Geological Survey (USGS) 7.5-minute topographic map. The proposed project consists of the installation of a new 105-foot monopole telecommunications tower and associated ground-based equipment within a proposed 30-foot by 30-foot lease area. Proposed power and fiber conduits will extend approximately 750 feet north-northwest from the proposed lease area, along a proposed 15-foot-wide access route, to a proposed meet-me-box and existing utility pole. From there, the proposed fiber conduit will continue along the proposed access route west approximately 400 feet, terminating at a proposed meet-me-box along Tuttle Creek Road.

The project site was surveyed on July 31, 2024 by Trileaf biologist, Mr. Manfred Ntowen. The biological resources within the site are described in terms of plant communities and jurisdictional drainage features. A literature review provided information regarding sensitive plant and wildlife species potentially occurring within the project site and immediate vicinity. Based on current site conditions and suitable habitat requirements of sensitive species, this report provides an analysis of the potential impacts of the proposed undertaking on listed or proposed threatened or endangered species, designated critical habitats, wetlands, and migratory birds. A project description, site photographs and topographical site location maps are included in this report.



### 2. METHODOLOGY

Data regarding biological resources on the project site were obtained through a literature review that included data on biological resources in the project vicinity. The primary objective of the assessment was to document the existing conditions of the onsite biological resources.

Sensitive biological resources present, or potentially present, onsite were identified through a literature review using the following resources: the California Natural Diversity Data Base (CNDDB) and the U.S Fish and Wildlife's (USFWS) Information for Planning and Consultation (IPaC) tool, and the California Native Plant Society (CNPS) Inventory of Rare and Endangered Plants. For the purpose of this report, "sensitive" or "special status" species are those plant or wildlife species that are officially listed or proposed for listing under state and/or federal endangered species acts, considered by the CDFW to be a Species of Special Concern (SSC), considered biologically rare, restricted in distribution, or declining throughout their range or within the state of California, or are associated with a habitat that is declining in California at a significant rate.

An initial review indicated that the project site is lightly developed located within generally desert land with fencing, dirt trails, and other facilities used for ranching. Mr. Manfred Ntowen conducted the biological resources field survey to document existing conditions and to determine potential impacts to sensitive biological resources based on current site plans. The survey was conducted on foot, making note of biological resources such as plant and wildlife species. Photographs of the project area are included in Appendix B. Attention was paid to any flora or fauna in the immediate project area to determine the presence or potential occurrence of any sensitive species that may occur on the project site.



## 3. EXISTING CONDITIONS

### 3.1 Site Description

The biological assessment survey of the project site was conducted on July 31, 2024. Weather conditions included a temperature of approximately 76 degrees Fahrenheit, winds of 1 to 3 miles per hour, and clear skies. The Site is located at the approximate location of 1203 Lubken Canyon Road, Lone Pine, Inyo County, California 93526, and consists of the addition of the installation of a new 105-foot monopole telecommunications tower and associated ground-based equipment within a proposed 30-foot by 30-foot lease area. Proposed power and fiber conduits will extend approximately 750 feet north-northwest from the proposed lease area, along a proposed 15-foot-wide access route, to a proposed meet-me-box and existing utility pole. from there, the proposed fiber conduit will continue along the proposed access route west approximately 400 feet, terminating at a proposed meet-me-box along Tuttle Creek Road. The proposed tower site is approximately 4,617.4 feet above mean sea level. Previous disturbances on the site include fencing, dirt trails, and other facilities used for ranching. During the area reconnaissance, no trees along the access road, and generally throughout the area were identified to be removed. Photographs of the project area are included in Appendix B.

The surrounding habitat within a 0.5-mile radius of the proposed site consists predominantly of undeveloped desert shrubland with very light development. To the north is Lone Pine Pheasant Club, followed by Indian Springs Drive, followed by a residential neighborhood. Directly east is mapped wetland habitat. The proposed project footprint runs through mapped habitat for *Sidalcea covillei*, also known as Owens Valley Checkerbloom, which is a California endangered plant species and protected by the California Endangered Species Act (CESA).

### 3.2 Vegetation

Lightly developed and undeveloped shrubland was noted to occur in the project area. There is a potential for unique or pecial-status plant species to occur within the proposed project footprint, however, this survey occurred outside of the typical blooming period for sensitive plant species with potential to occur in the area.

### 3.3 Soils

According to the U.S. Soil Conservation Service Soil Survey of Benton-Owens Valley Area Parts of Inyo and Mono Counties, California, the Site is underlain by Goodale-Cartago complex, 5 to 15 percent slopes, Cartago gravelly loamy sand, 2 to 5 percent slopes, and \_\_\_.

The lease area and immediate-surrounding areas are comprised of Goodale-Cartago complex, 5 to 15 percent slopes. Goodale soils consist of somewhat excessively drained soils that are formed from alluvium derived from granite and are found in the tread and backslope of fan terraces and alluvial fans. The depth to the most restrictive feature and to the water table is more than 80 inches. A typical profile of Goodale soils consists of a surface layer of bouldery loamy coarse sand extending 0 to 12 inches, and a subsurface layer of stratified extremely stony very cobbly loamy coarse sand extending 12 to 60 inches. Goodale soils rarely flood and never pond.

Cartago soils consist of somewhat excessively drained soils that are formed from alluvium derived from granite and are found in the backslope and tread of fan terraces and alluvial fans. The depth to the most restrictive feature and to the water table is more than 80 inches. A typical profile of Cartago soils consists of a surface layer of gravelly loamy coarse sand extending 0 to 12 inches,



followed by subsurface layers of gravelly loamy coarse sand extending 12 to 42 inches, and very cobbly loamy coarse sand extending 42 to 60 inches. Cartago soils rarely flood and never pond. Goodale-Cartago complex, 5 to 15 percent slopes are not considered hydric soils.

An unnamed minor component was observed to comprise two (2) percent of the land area surrounding the lease area; it is found in drainage ways and is considered a hydric soil.

The land along the portion of the proposed utility route than runs north away from the lease area is comprised of Dehy-Conway-Lubkin association, 0 to 9 percent slopes. Dehy soils consist of somewhat poorly drained soils that are formed from alluvium derived from granite and are found in the backslope and tread of fan terraces. The depth to the most restrictive feature is more than 80 inches, and the depth to the water table is about 24 to 36 inches. A typical profile of Dehy soils consists of a surface layer of loam extending 0 to 4 inches, followed by subsurface layers of sandy loam extending 4 to 10 inches, gravelly sandy loam extending 10 to 26 inches, loamy sand extending 26 to 36 inches, and gravelly loamy sand extending 36 to 60 inches. Dehy soils rarely flood and never pond.

Conway soils consist of very poorly drained soils that are formed from alluvium derived from granite and are found in the backslope and tread of alluvial fans. The depth to the most restrictive feature is more than 80 inches, and the depth to the water table is about 0 to 12 inches. A typical profile of Conway soils consists of a surface layer of loam extending 0 to 8 inches, followed by subsurface layers of very fine sandy loam extending 8 to 23 inches, and sandy loam extending 23 to 60 inches. Conway soils frequently flood and never pond. They are considered hydric soils.

Lubkin soils consist of well drained soils that are formed from alluvium derived from granite and are found in the backslope and tread of fan terraces. The depth to the most restrictive feature and the depth to the water table is more than 80 inches. A typical profile of Lubkin soils consists of a surface layer of gravelly loamy sand extending 0 to 5 inches, followed by subsurface layers of very stony sandy loam extending 5 to 26 inches, very cobbly loamy sand extending 26 to 46 inches, and very gravelly loamy sand extending 46 to 60 inches. Lubkin soils rarely flood and never pond.

Minor components observed on site include Mountom soils, which are found in alluvial fans and considered hydric soils.

### 3.4 General Wildlife

The project site and surrounding area provide habitat for wildlife species that commonly occur in relatively undisturbed desert shrubland habitats. No wildlife was observed while on site for the survey. Wildlife species that are expected to occur in the area include: Sierra Nevada yellow-legged frog (*Rana sierrae*), Western snowy plover (*Charadrius nlvosus nlvosus*), least Bells vireo (*Vireo bellii pusillus*), Sierra Nevada bighorn sheep (*Ovis canadensis sierrae*), desert tortoise (*Gopherus agassizii*), and Owens Valley checkerbloom (*Sidalcea covillei*).

### 3.5 Sensitive Biological Resources – Special Status Species

Special status species are native species that have been accorded special legal or management protection because of concern for their continued existence. There are several categories of



protection at both federal and state levels, depending on the magnitude of threat to continued existence and existing knowledge of population levels.

The U.S. Fish and Wildlife Service (USFWS) administers the federal Endangered Species Act (ESA). The ESA provides a process for listing species as either threatened or endangered, and methods of protecting listed species. The ESA defines as "endangered" any plant or animal species that is in danger of extinction throughout all or a significant portion of its range. A "threatened" species is a species that is likely to become endangered in the foreseeable future. A "proposed" species is one that has been officially proposed by USFWS for addition to the federal threatened and endangered species list.

Section 9 of the ESA prohibits "take" of threatened or endangered species. The term "take" means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in such conduct. Take can include disturbance to habitats used by a threatened or endangered species during any portion of its life history. The presence of any federally threatened or endangered species that is in a project area generally imposes severe constraints on development, particularly if development would result in take of the species or its habitat. Under the regulations of the ESA, the USFWS may authorize take when it is incidental to, but not the purpose of, an otherwise lawful act.

Sensitive habitats are natural communities that support concentrations of sensitive plant or wildlife species, are of relatively limited distribution, or are of particular value to wildlife. Sensitive habitats are not afforded legal protection unless they support protected species, except for wetland habitats, which cannot be filled without authorization from the U.S. Army Corps of Engineers (USACE) and CDFG.

Trileaf has researched the listed or proposed threatened or endangered species and designated critical habitat for the project area. This includes any such species that have been reported to exist within the action area where the project is located. The state list of threatened, endangered, and sensitive species was acquired from the California Natural Diversity Database (CNDDB). The federal list of threatened and endangered species was obtained through the USFWS's Information for Planning and Consultation (IPaC) tool. All databases were queried within 1 mile of the study area. On July 31, 2024, a Trileaf representative visited and photographed the project site, and compared the habitat at the site with that of the list of federal and state threatened, endangered, and sensitive species (photographs of the project area are included in Appendix B). The project area is not located within an aquatic environment; therefore, any obligate aquatic species should not be directly impacted by this project and are not included in the tables below.

### **Sensitive Plant Species**

Trileaf's review of the CNDDB resulted in a list of one (1) sensitive plant species potentially occurring within one mile of the project area. A list of sensitive plant species, the habitat in which they occur, and their potential to occur within the project area are summarized in the following table:



Species	Status <sup>1</sup>	Potential to Occur/ Habitat
Owens Valley checkerbloom (Sidalcea covillei)	/SE/1B 1/S2	High. This species grows within the Owns River drainage in alkali meadows and spring plant communities that have sandy loam soils with alkaline crusts. According to the CNDDB, this species has a limited distribution which are threatened by lowering water tables and grazing. The proposed project footprint will extend directly into mapped habitat for this species.

### **Sensitive Wildlife Species**

Trileaf's review of the IPaC revealed one (1) sensitive mammal species, two (2) sensitive bird species, and one (1) sensitive insect species, for a total of four (4) sensitive wildlife species potentially occurring within one mile of the project area. A list of sensitive wildlife species, the habitat in which they occur, and their potential to occur within the project area are summarized in the following table:

Species	Status <sup>2</sup>	Potential to Occur/ Habitat	
Mammals			
Fisher (Pekania pennanti)	FE//	None. This species prefers to live in mature, old-growth forests with thi canopy cover and avoid open areas such as roads, fields, and large clea cuts. We did not observe any potential habitat for this species while on signand this species was not observed during site reconnaissance.	
Birds			
California Condor (Gymnogyps californianus)		None. This species uses vast expanses of varying habitats for foragin roosting, and nesting. Require large trees or snags, or rocky outcrops a cliffs to roost; nests are locate din caves and ledges of steep rocky terra or in cavities and broken tops of old growth conifers. We did not obser any potential habitat for this species while on site, and this species was r observed during site reconnaissance.	

<sup>&</sup>lt;sup>1</sup> Status: The format for the species status is [federal status] / [state status] / [CNPS status] / [state rank]. A double dash -- means that there is no official sensitivity status. Federal Status: FE – endangered, FT – threatened, FPT- proposed threatened, FC- candidate, DL – federally delisted. State Status: SE – endangered, ST – threatened, SCE- candidate endangered, SR – rare, SSC – special concern, FP – fully protected, WL – watch list. CNPS Status: 1A – presumed extirpated in California and either rare or extinct elsewhere, 1B – rare, threatened, or endangered in California and elsewhere, 2A – presumed extirpated in California but common elsewhere, 2B - rare, threatened, or endangered in California but common elsewhere, 3 - more information is needed (a review list), 4 – plants of limited distribution (a watch list). State Rank: SX – presumed extirpated, S1 - critically imperiled, S2 - imperiled, S3 - vulnerable, S4 - apparently secure, S5 - secure, SNR – unranked.

<sup>&</sup>lt;sup>2</sup> The format for the species status is [federal status] / [state status] / [CDFW Status] / [state rank]. A double dash -- means that there is no official sensitivity status. **Federal Status**: FE – endangered, FT – threatened, FPT- proposed threatened, FC- candidate, DL – federally delisted. **State Status**: SE – endangered, ST – threatened, SCE- candidate endangered, SR – rare. **CDFW Status**: SSC – special concern, FP – fully protected, WL – watch list. **State Rank**: SX – presumed extirpated, SH - possibly extirpated, S1 - critically imperiled, S2 - imperiled, S3 - vulnerable, S4 - apparently secure, S5 - secure, SNR - unranked.

Species	Status <sup>2</sup>	Potential to Occur/ Habitat
Yellow-billed Cuckoo (Coccyzus americanus)	FT//	None. Occurs in wooded habitats with dense cover and water nearby, including woodlands with low, scrubby vegetation, overgrown orchards, abandoned farmland, and dense thickets along streams and marshes. California's breeding population is now believed to be restricted to areas along the Kern, Sacramento, Feather, and Lower Colorado Rivers. We did not observe any potential habitat for this species while on site, and this species was not observed during site reconnaissance.
Insects		
Monarch Butterfly (Danaus plexippus)	FC///S2	Very Low. Occurs in prairies, meadows, grasslands, urban gardens, and along roadsides. Breed only where milkweeds ( <i>Asclepias spp.</i> ) are found. We did not observe any potential habitat for this species while on site, and this species was not observed during site reconnaissance.

No portions of the proposed development footprint contain the important habitat suitability elements for any of the above-listed sensitive wildlife species; none are likely to occur within the proposed development footprint itself. No small mammal burrows were observed on or within the immediate vicinity of the site. Therefore, no direct impacts are anticipated to any sensitive wildlife or their habitat. No further action is recommended regarding sensitive wildlife species.

### 3.6 Jurisdictional Areas

The USACE regulates discharges of dredged or fill material into waters of the United States. These waters include wetlands and non-wetland bodies of water that meet specific criteria. USACE regulatory jurisdiction pursuant to Section 404 of the federal Clean Water Act is founded on a connection or nexus between the water body in question and interstate commerce. This connection may be direct through a tributary system, linking a stream channel with traditional navigable waters used in interstate or foreign commerce, or may be indirect, through a nexus identified in the USACE regulations.

### 3.6.1 Waters of the U.S.

USACE jurisdiction over non-tidal waters of the United States extends laterally to the ordinary high-water mark (OHWM) or beyond the OHWM to the limit of any adjacent wetlands, if present (33 CFR 328.4). The OHWM is defined as "that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding area" [33 CFR 329.11(a) (1)]. Jurisdiction typically extends upstream to the point where the OHWM is no longer perceptible.



Water Body Type	Water Body Name	Direction from Tower	Distance from Tower
Freshwater Riverine	Unnamed	E	<100 feet
Freshwater Emergent Wetland	Unnamed	E	<100 feet
Freshwater Pond	Unnamed	S	450 feet
Freshwater Riverine	Unnamed	SW	500 feet
Freshwater Riverine	North Fork Lubken Creek	S	0.3 miles
Freshwater Riverine	Unnamed	W	0.33 miles
Freshwater Riverine	Diaz Creek	Ν	0.48 miles
Freshwater Forested/Shrub Wetland Wetland	Unnamed	NNE	0.48 miles

Using local maps (see Appendix A) in combination with site reconnaissance, the following water bodies have been identified in the table below:

Waters of the U.S. were absent from the site; no water bodies having a perceptible OHWM were identified on site or adjacent to the site.

### 3.6.2 Wetlands

The USACE and EPA define "wetlands" as "areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted to life in saturated soil conditions." In order to be considered a jurisdictional wetland under Section 404, an area must possess three wetland characteristics: hydrophytic vegetation, hydric soils, and wetland hydrology. Each characteristic has a specific set of mandatory wetland criteria that must be satisfied for that wetland characteristic to be met. Trileaf has reviewed the topographic map, soil composition, as well as the National Wetlands Inventory (NWI) Map to determine if the proposed lease area and easements would have an impact on any wetlands or require significant amounts of fill or grading. Additionally, Trileaf performed a field visit and identified that the portion of the proposed utility route that runs north away from the proposed lease area runs through mapped wetland area, and there is hydric soil present on site. The proposed project as outlined could potentially impact recognized wetlands.

### 3.6.3 Nesting Birds

The Migratory Bird Treaty Act (MBTA) protects all common wild birds found in the United States except the house sparrow, starling, feral pigeon, and resident game birds such as pheasant, grouse, quail, and wild turkey. The MBTA makes it unlawful for anyone to kill, capture, collect, possess, buy, sell, trade, ship, import, or export any migratory bird including feathers, parts, nests, or eggs.

The proposed Site is not located within a principal migratory bird flyway and no nests or nesting activity were observed during the biological assessment field survey. The trees and shrubs located within the immediate vicinity of the project site provide suitable avian nesting habitat.



# 4. SENSITIVE BIOLOGICAL RESOURCES IMPACT ANALYSIS

### 4.1 Sensitive Plan and Wildlife Species

- Sensitive Plant Species: Prior to construction, a botanical survey should be conducted during the appropriate blooming period to determine the presence or absence of sensitive plant species, specifically *Sidalcea covillei* (Owens Valley Checkerbloom), as the proposed project footprint extends through mapped habitat. If this species is identified within the proposed project area and cannot be avoided, necessary permits need to be obtained to continue construction.
- Sensitive Wildlife Species: No wildlife was observed while on site for the survey. Wildlife species that are expected to occur in the area include: Sierra Nevada yellow-legged frog (*Rana sierrae*), Western snowy plover (*Charadrius nlvosus nlvosus*), least Bells vireo (*Vireo bellii pusillus*), Sierra Nevada bighorn sheep (*Ovis canadensis sierrae*), desert tortoise (*Gopherus agassizii*), and Owens Valley checkerbloom (*Sidalcea covillei*). No focused wildlife surveys are recommended.

### 4.2 Jurisdictional Areas

No potentially jurisdictional waters are present on or in the vicinity of the project site. However, there is mapped wetland habitat directly east of the proposed lease area and access/utility easement. Therefore, installation of the proposed facility will impact jurisdictional wetland areas and a wetland delineation prior to construction is recommended.

### 4.3 Nesting Birds

The shrubs located within the immediate vicinity of the project site provide suitable nesting habitat for several avian species. Therefore, MBA recommends that construction activity avoid the avian nesting season (February - August). If construction activity must occur during the nesting season, a qualified biologist should perform a pre-construction clearance survey to determine the presence/absence of nesting activity onsite and in the vicinity of the project site. The survey will address impacts to nesting birds per the MBTA. If no nesting activity is observed, no further action is required.

If nesting activity is observed on or in the immediate vicinity of the project site, construction activity may proceed after the nestlings have fledged. If the facility must be installed in the vicinity of an active nest, a biological monitor will be present during all construction activity. Construction activity can be conducted at the discretion of the monitor to ensure that it does not directly or indirectly cause a nest to fail.



### **5. CONCLUSIONS**

Based on the efforts undertaken during this assessment, project specifications and the current data made available, we have concluded that there is potential for the proposed project to have a significant effect on listed or proposed, threatened and endangered species, species of special concern, their habitats, migratory birds, jurisdictional waters or designated wetlands. Trileaf has proposed the aforementioned mitigation measures in order to minimize the anticipated impacts.

<u>Jamantha Neavy</u> Samantha Neary

Senior Project Scientist

Brandy Moss Project Manager II



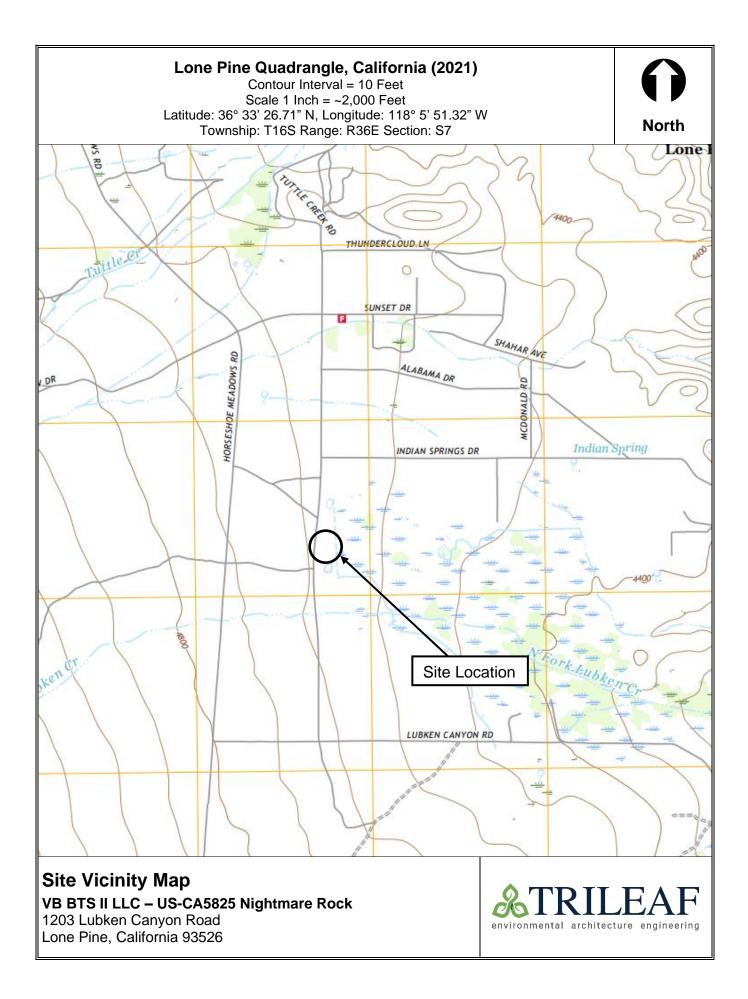
# 6. REFERENCES

- California Department of Fish and Wildlife. (2019). California Natural Diversity Database (CNDDB) BIOS Quickview – USGS topographic Quadrangle, El Monte. Retrieved July 30, 2024 from https://apps.wildlife.ca.gov/bios/
- California Native Plant Society, Rare Plant Program. 2024. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39).
- Google Inc. (2018), Google Earth Pro (Version 7.3.1.4507) [Software]. Available from: http://www.google.com/earth/
- Natural Resources Conservation Service, United States Department of Agriculture. Soil Survey Geographic (SSURGO) Database for Inyo County, California. Available online. Accessed July 31, 2024.
- U.S. Geological Survey, Lone Pine Quadrangle, California 7.5-Minute Series (2015) https://viewer.nationalmap.gov/basic
- Wetlands Map, US Fish and Wildlife Service National Wetland Inventory (NWI) https://www.fws.gov/wetlands/Data/Mapper.html



**Appendix A** Site Vicinity Map and Site Plans





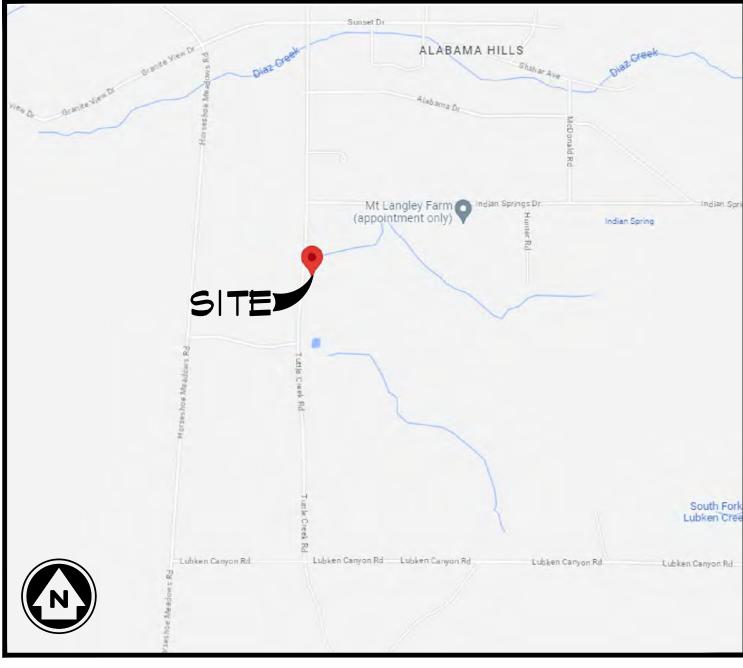
# PROJECT DESCRIPTION:

CONSTRUCTION OF TELECOMMUNICATIONS AND PUBLIC UTILITY FACILITY, CONSISTING OF A MONOPOLE TOWER, SPACE FOR CARRIER EQUIPMENT, AND A UTILITY BACKBOARD WITHIN A FENCED COMPOUND. NO WATER OR SEWER IS REQUIRED. THIS WILL BE AN UNMANNED FACILITY.

# 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 THE LATEST EDITIONS OF THE FOLLOWING:

- 1. 2022 INTERNATIONAL BUILDING CODE
- 2. 2022 NATIONAL ELECTRIC CODE 3. 2022 NFPA101 LIFE SAFETY CODE
- 4. 2022 IFC
- 5. AMERICAN CONCRETE INSTITUTE
- 6. AMERICAN INSTITUTE OF STEEL
- CONSTRUCTION
- 7. MANUAL OF STEEL CONSTRUCTION,
- 13TH EDITION
- 8. ANSI/TIA/EIA-222-G
- 9. TIA 607
- 10. INSTITUTE FOR ELECTRICAL & ELECTRONICS ENGINEER 81
- 11. IEEE C2 NATIONAL ELECTRIC SAFETY
- CODE, LATEST EDITION
- 12. TELECORDIA GR-1275
- 13. ANSI/T 311
- 14. UNIFORM MECHANICAL CODE 15. UNIFORM PLUMBING CODE
- 16. LOCAL BUILDING CODE
- 17. CITY/COUNTY ORDINANCES
- 18. STATE BUILDING CODE
- 19. 2022 CALIFORNIA FIRE CODE



# VICINITY MAP

N.T.S			
PROJECT		ATION	
PARCEL #:	026-150-30-00		
DEED REFERENCE:	-		
ZONING CLASSIFICATION:	A-AGRICULTURAL		
ZONING JURISDICTION:	COUNTY OF INYO		
GROUND ELEVATION:	-		
STRUCTURE TYPE:	MONOPOLE		
STRUCTURE HEIGHT:	105'-0"		
CONSTRUCTION AREA:	-		
LATITUDE (NAD 83):	36° 33' 26.71" N (36	.557419)	
LONGITUDE:	118°05'51.32"W(-1	18.097589)	
CONCRETE (SURFACE)	——————————————————————————————————————	CHAIN LINK FENCE	
CONCRETE (CUT)	-00	WOOD FENCE	
EARTH	-00	WROUGHT IRON FENCE	
GRAVEL	OH	OVERHEAD WIRES	
PLYWOOD	—— E ——	POWER CONDUIT	
STEEL	· · · · ·	GROUND CONDUCTOR	
$\begin{bmatrix} & & & & & & \\ & & & & & & & \\ & & & & $		PROPERTY LINE	
⊕ <sup>±0"</sup> ELEVATION DATUM		CENTERLINE	
2 A-5 ELEVATION			



NIGHTMARE ROCK 1203 LUBKEN CANYON RD. LONE PINE, CA 93526 INYO COUNTY INITIAL BUILD

VERTICAL BRIDGE

SITE ACQUISITION

CONSTRUCTION MANAGER

PERMITTING

RF ENGINEERING

	DRAWING INDEX		
DRWG. #	TITLE	REV.#	DATE
T—1	TITLE SHEET	1	07/11/2024
GN-1	GENERAL NOTES & LEGEND	1	07/11/2024
C-1	SITE SURVEY	1	07/11/2024
C-2	TITLE & EXCEPTIONS INFORMATION	2	09/05/2023
C-3	TITLE & EXCEPTIONS INFORMATION	2	09/05/2023
A-1	OVERALL SITE PLAN	1	07/11/2024
A-2	ENLARGED SITE PLAN	1	07/11/2024
A-3	EQUIPMENT LAYOUT PLAN	1	07/11/2024
A-4	ANTENNA LAYOUT PLAN	1	07/11/2024
A-5	ELEVATIONS	1	07/11/2024
D-1	EQUIPMENT DETAILS	1	07/11/2024
D-2	MW DETAILS	1	07/11/2024
D-3	EQUIPMENT DETAILS	1	07/11/2024
D-4	EQUIPMENT DETAILS	1	07/11/2024
D-5	BATTERY SPECIFICATIONS		
D-5.1	BATTERY INFORMATION	1	07/11/2024
D-6	GENERATOR WARNING SIGNS & DETAILS	1	07/11/2024
D-7	GENERATOR SPECIFICATIONS	1	07/11/2024
D-8	TANK SPECIFICATIONS	1	07/11/2024
E-1	ELECTRICAL & GROUNDING NOTES	1	07/11/2024
E-2	SINGLE LINE SCHEDULE, NOTES & CONDUIT ROUTE	1	07/11/2024
E-3	ELECTRICAL DETAILS	1	07/11/2024
G-1	GROUNDING DETAILS & NOTES	1	07/11/2024
G-2	GROUNDING DIAGRAMS	1	07/11/2024



PO BOX P INDEPENDENCE, CA CONTACT: SCOTT PHONE: (530) 400 EMAIL: scottwkempAPPLICANT:VERTICAL BRIDGE 750 PARK OF COMM SUITE 200 BOCA RATON, FL 33CONTACT:STEVE CHRISTENSO PHONE: (530) 368-C EMAIL: steve.christerENGINEER:ALL STATES ENGINEF 23675 BIRTCHER DR LAKE FOREST, CA CCONTACT:WISSAM ZALZALI PHONE: (949) 609-C wissam@zalzali.comA&E PROJECT MANAGER:SILVIA SANDOVAL		PRO
750 PARK OF COMM SUITE 200 BOCA RATON, FL 33CONTACT:STEVE CHRISTENSO PHONE: (530) 368-0 EMAIL: steve.christerENGINEER:ALL STATES ENGINER 23675 BIRTCHER DR LAKE FOREST, CA 0CONTACT:WISSAM ZALZALI PHONE: (949) 609-0 wissam@zalzali.comA&E PROJECT MANAGER:SILVIA SANDOVAL PHONE: (949) 273 EMAIL: SILVIA@ZAPOWER COMPANY:LA-DWP	PROPERTY OWNER:	SCOTT & MARRY & PO BOX P INDEPENDENCE, CA CONTACT: SCOTT PHONE: (530) 400 EMAIL: scottwkemp
PHONE: (530) 368-0 EMAIL: steve.christer ALL STATES ENGINER 23675 BIRTCHER DR LAKE FOREST, CA G WISSAM ZALZALI PHONE: (949) 609-0 wissam@zalzali.com A&E PROJECT MANAGER: SILVIA SANDOVAL PHONE: (949) 273 EMAIL: SILVIA@ZA	APPLICANT:	VERTICAL BRIDGE 750 PARK OF COMM SUITE 200 BOCA RATON, FL 33
23675 BIRTCHER DE LAKE FOREST, CA G WISSAM ZALZALI PHONE: (949) 609-6 wissam@zalzali.com A&E PROJECT MANAGER: SILVIA SANDOVAL PHONE: (949) 273 EMAIL: SILVIA@ZA POWER COMPANY: LA-DWP	CONTACT:	STEVE CHRISTENSOI PHONE: (530) 368-0 EMAIL: steve.christer
PHONE: (949) 609-0 wissam@zalzali.com A&E PROJECT MANAGER: SILVIA SANDOVAL PHONE: (949) 273 EMAIL: SILVIA@ZA POWER COMPANY: LA-DWP	ENGINEER:	ALL STATES ENGINEE 23675 BIRTCHER DR LAKE FOREST, CA 9
PHONE: (949) 273 EMAIL: SILVIA@ZA POWER COMPANY: LA-DWP	CONTACT:	PHONE: (949) 609-9
	A&E PROJECT MANAGER:	SILVIA SANDOVAL PHONE: (949) 273 EMAIL: SILVIA@ZA
TELCO COMPANY: –	POWER COMPANY:	LA-DWP
	TELCO COMPANY:	_

# PROJECT SCOPE OF WORK: • NEW 105'H. MONOPOLE

• INSTALL NEW 400A METER MAIN W/ 200A VZW METER • INSTALL (3) NEW EQUIPMENT CABINETS • INSTALL (1) TELCO CABINET INSTALL (1) ILC PANEL • INSTALL (1) NEW GPS ANTENNA • INSTALL (5) NEW SERVICE LIGHTS. • INSTALL (1) NEW 30KW DIESEL GENERATOR W/ 210 GAL. TANK • INSTALL (3) C-BAND PANEL ANTENNAS INSTALL (6) LTE PANEL ANTENNAS • INSTALL (6) LTE RRUS • INSTALL (2) 4' MW ANTENNAS W/ (4) MW ODU'S • INSTALL (4) SURGE SUPPRESSORS (2 @ EQUIPMENT LOCATION \$ 2 @ ANTENNA LOCATION) <u>DIG ALERT:</u> CALL FOR UNDERGROUND UTILITIES PRIOR TO DIGGING: 811 **EMERGENCY**: CALL 911

APPROVAL I	BLOCK
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	APPROVED	APPROVED A	S NOTED DISAPPROVED/REVISE
DATE			

LOCATION MAP N.T.S

# JECT DIRECTORY

KEMP TRUST A 93526	LEASING MANAGER:	SEQUOIA DEPLOYMENT SERVICES, INC I SPECTRUM POINTE DRIVE, STE 130 LAKE FOREST, CA 92630
KEMP )-6448 p@hotmail.com	CONTACT:	KEN WEINGARTNER PHONE: (949) 310-1582 EMAIL: ken.weingartner@sequoia-ds.com
1ERCE DRIVE, 33487	ZONING MANAGER:	SEQUOIA DEPLOYMENT SERVICES, INC I SPECTRUM POINTE DRIVE, STE 130 LAKE FOREST, CA 92630
DN 0730 :nson@verticalbridge.com	CONTACT:	ARMONDO MONTES (562) 309-5577 armondo.montes@sequoia-ds.com
ERING \$ SURVEYING RIVE 92630	TENANT:	VERIZON WIRELESS 2770 SHADELANDS DRIVE, BUILDING II WALNUT CREEK, CA 94598
9559		
3-0996 X107 ALZALI.COM		

verticalbridge	VERTICAL BRIDGE 750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON, FL 33487
DEPLOYMENT SER 1 SPECTRUM POINT SUITE 130 LAKE FOREST, CA 9	
((•)) ALLSTA ENGINEERING & 23675 BIRTCHER LAKE FOREST, C	DRIVE
Drawn: <u>RN</u> Date	SS 07/09/24 RN 05/30/24 App'd Date : 05/30/24
Checked: <u>S</u> Date Project Number NI <u>GHTMA</u> Project Title SITE ID: US-C NIGHTMARE MONOPOL 1203 LUBKEN CAI LONE PINE, CA	A-5825 ROCK E: NYON RD
Engineer Stamp PROFESSIONA SCHORESSIONA PROFESSIONA TI655 TO TI655 CIVIL	/ <b>*</b> //
Drawing Title TITLE SHI	EET
Drawing Scale: <u>AS NOTED</u> Date: <u>07/15/2024</u> UNAUTHORIZED ALTERATION TO THIS DOCUMENT IS A V APPLICABLE STATE AND/OR	IOLATION OF
Drawing Number <b>T-1</b>	

# GENERAL CONSTRUCTION NOTES:

- I. PLANS ARE INTENDED TO BE DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
- 2. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
- 3. CONTRACTOR SHALL CONTACT USA (UNDERGROUND SERVICE ALERT) AT (800) 227-2600, FOR UTILITY LOCATIONS, 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION, SITE WORK OR CONSTRUCTION.
- 4. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- 5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CBC / UBC'S REQUIREMENTS REGARDING EARTHQUAKE RESISTANCE, FOR, BUT NOT LIMITED TO, PIPING, LIGHT FIXTURES, CEILING GRID, INTERIOR PARTITIONS, AND MECHANICAL EQUIPMENT. ALL WORK MUST COMPLY WITH LOCAL EARTHQUAKE CODES AND REGULATIONS.
- 6. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWINGS, SHALL NOT BE USED TO IDENTIFY OR ESTABLISH BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ARCHITECT / ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ARCHITECT / ENGINEER.
- 7. THE BUILDING DEPARTMENT ISSUING THE PERMITS SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK, OR AS OTHERWISE STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
- 8. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED. 9. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON THE PLAN HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT / ENGINEER AND THE OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR THE ACCURACY OF THE INFORMATION SHOWN ON THE PLANS, OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTORS SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTORS SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
- 10. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICALLY, PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT / ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT / ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE.
- II. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTURBED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.
- 12. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED / DISTURBED DURING CONSTRUCTION SHALL BE RETURNED TO IT'S ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON "AS-BUILT" DRAWINGS BY GENERAL CONTRACTOR, AND ISSUED TO THE ARCHITECT / ENGINEER AT COMPLETION OF PROJECT.
- 13. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAID BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
- 14. INCLUDE MISC. ITEMS PER VERIZON WIERLESS SPECIFICATIONS

# APPLICABLE CODES, REGULATIONS AND STANDARDS:

- I. SUBCONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ) FOR THE LOCATION.
- 2. THE EDITION OF THE AHJ ADOPTED CODES AND STANDARDS IN EFFECT ON THE DATE OF CONTRACT AWARD SHALL GOVERN THE DESIGN.
- 3. SUBCONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- 3.1. AMERICAN CONCRETE INSTITUTE (ACI) 318, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE 3.2. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), MANUAL OF STEEL CONSTRUCTION, ASD, NINTH EDITION
- 3.3. TELECOMMUNICATIONS INDUSTRY ASSOCIATION (TIA) 222-G, STRUCTURAL STANDARD FOR STRUCTURAL ANTENNA TOWER AND ANTENNA SUPPORTING STRUCTURES
- 3.4. INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) 81, GUIDE FOR MEASURING EARTH RESISTIVITY, GROUND IMPEDANCE, AND EARTH SURFACE POTENTIALS OF A GROUND SYSTEM IEEE 1100 (1999) RECOMMENDED PRACTICE FOR POWERING AND GROUNDING OF ELECTRICAL EQUIPMENT.
- 3.5. IEEE C62.41, RECOMMENDED PRACTICES ON SURGE VOLTAGES IN LOW VOLTAGE AC POWER CIRCUITS (FOR LOCATION CATEGORY "C3" AND "HIGH SYSTEM EXPOSURE")
- 3.6. TIA 607 COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS TELCORDIA GR-63 NETWORK
- 3.7. EQUIPMENT-BUILDING SYSTEM (NEBS): PHYSICAL PROTECTION
- 3.8. TELCORDIA GR-347 CENTRAL OFFICE POWER WIRING
- 3.9. TELCORDIA GR-1275 GENERAL INSTALLATION REQUIREMENTS
- 3.10. TELCORDIA GR-1503 COAXIAL CABLE CONNECTIONS
- 3.11. ANY AND ALL OTHER LOCAL & STATE LAWS AND REGULATIONS
- 3.12. FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS REGARDING MATERIAL, METHODS OF CONSTRUCTION, OR OTHER REQUIREMENTS, THE MOST RESTRICTIVE SHALL GOVERN. WHERE THERE IS CONFLICT BETWEEN A GENERAL REQUIREMENT AND A SPECIFIC REQUIREMENT, THE SPECIFIC REQUIREMENT SHALL GOVERN.

# ABBREVIATIONS:

F.O.W.

FT.( '

FTG.

GA.

SHT.

STD.

STL.

STRUC.

TEMP.

F.S.

ANCHOR BOLT

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMERICAN WIRE GAUGE

BARE TINNED COPPER WIRE

ADDITIONAL

ALUMINUM

ANTENNA

BUILDING

BLOCKING

CABINET

CEILING

COLUMN

DOUBLE

CONCRETE

CLEAR

BLOCK

BEAM

ALTERNATE

APPROXIMATE(LY)

ARCHITECT(URAL

BOUNDARY NAILING

BOTTOM OF FOOTING

BACK-UP CABINET

CANTILEVER(ED)

CAST IN PLACE

CONNECTION(OR)

CONSTRUCTION

PENNY (NAILS)

CONTINUOUS

DEPARTMENT

DOUGLAS FIR

DIAMETER

DIMENSION

DOWEL(S)

ELEVATION

ELECTRICAL

ELEVATOR

EDGE NAIL

EXPANSION

EXISTING

EXTERIOR

FABRICATION(OR)

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUD

FINISH FLOOR

FINISH GRADE

FINISH(ED)

FOUNDATION

FLOOR

ENGINEER

EQUAL

ELECTRICAL METALLIC TUBING

EACH

DRAWING(S)

DIAGONAL

ANTENNA CABLE COVER ASSEMBLY

ABOVE

A.B. ABV.

ACCA

ADD'L

A.F.F.

A.F.G.

ALUM.

ALT.

ANT.

APPRX

ARCH.

BLDG.

AWG.

BLK.

BLKG.

BTCW.

B.O.F.

B/U

CAB.

CANT.

C.I.P.

CLG.

CLR.

COL.

CONC.

CONN.

CONST

CONT.

DBL.

D.F.

DIA.

DIAG.

DIM.

DWG.

DWL.

EA.

EL.

ELEC.

ELEV

EMT.

E.N.

ENG.

EQ.

EXP.

EXT.

FAB.

F.F.

F.G.

FIN.

FLR.

FDN.

F.O.C.

F.O.M.

F.O.S.

EXST.(E)

DEPT

BM.

B.N.

IN. ( " ) INT. LB.(#) L.B. L.F. L. MAS. MAS. M.B. MECH. MFR. MIN. MISC. MTL.	FACE OF WALL FINISH SURFACE FOOT (FEET) FOOTING GROWTH (CABINET) GAUGE GALVANIZE(D) GROUND FAULT CIRC (GLU-LAM) GLUE L GLOBAL POSITIONING GROUND HEADER HANGER HANGER HEIGHT ISOLATED COPPER GI INCH(ES) INTERIOR POUND(S) LAG BOLTS LINEAR FEET (FOOT) LONG(ITUDINAL) MASONRY MAXIMUM MACHINE BOLT MECHANICAL MANUFACTURER MINIMUM MISCELLANEOUS METAL NEW
(N) NO.(#) N.T.S. O.C. OPNG. P/C PCS PLY. PPC P.S.F. P.S.I. P.T. PMR. RAD.(R) REF. REINF. REGS. SCH. SHT. SPEC. SQ. S.S. STD. STL. C	NEW NUMBER NOT TO SCALE ON CENTER OPENING PRECAST CONCRETE PERSONAL COMMUNIC PLYWOOD POWER PROTECTION PRIMARY RADIO CAB POUNDS PER SQUARE POUNDS PER SQUARE POUNDS PER SQUARE PRESSURE TREATED POWER (CABINET) QUANTITY RADIUS REFERENCE REINFORCEMENT(ING) REQUIRED RIGID GALVANIZED S' SCHEDULE SHEET SIMILAR SPECIFICATIONS SQUARE STAINLESS STEEL STANDARD STEEL

STRUCTURAL TEMPORARY

# SYMBOLS LEGEND

1 A-300 A-300	BLDG. SECTION	
001	DOOR SYMBOL	
(10)	WINDOW SYMBOL	
3	TILT-UP PANEL MARK	<u> </u>
A	GRID/COLUMN LINE	
3	KEYNOTE, DIMENSION ITEM	- <del>-</del>
2	KEYNOTE, CONSTRUCTION ITEM	
[W-3]	WALL TYPE MARK	
	ROOM NAME ROOM NUMBER	

	THK. T.N.	TOE NAIL
	T.O.A. T.O.C. T.O.F. T.O.P. T.O.S.	TOP OF CURB TOP OF FOUNDATION TOP OF PLATE (PARAPET)
CUIT INTERRUPTER LAMINATED BEAM G SYSTEM		TOP OF WALL TYPICAL UNDER GROUND UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE VERIFY IN FIELD
GROUND BUS	W/ WD. W.P. WT. C	WITH WOOD
-)	P	PLATE, PROPERTY LINE

CATION SERVICES

CABINET BINET RE FOOT RE INCH

STEEL

\*\*\*\*\*  $\succ$ \_\_\_\_\_ · · \_\_\_\_\_ OH ———

(E) BRICK (E) MASONRY EARTH SAND PLYWOOD SAND MATCH LINE GROUND CONDUCTOR OVERHEAD SERVICE CONDUCTORS POWER CONDUIT Pwr —— 

GROUT OR PLASTER

Verticalbridge	VERTICAL BRIDGE 750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON, FL 33487
DEPLOYMENT SER 1 SPECTRUM POINT SUITE 130 LAKE FOREST, CA C	E DRIVE,
((•)) ALLST ENGINEERING 8 23675 BIRTCHER LAKE FOREST, C	
1 100% CD (VB REFORMAT)	DW 07/15/24
1       100% CD (VB REPORMAT)         0       100% CD's FOR SUBMITTAL         A       80% CD's FOR REVIEW         No.       Submittal / Revision         Drawn:       RN	SS         07/09/24           RN         05/30/24           App'd         Date
Checked: <u>SS</u> Date	: <u>05/30/24</u> RE R <i>O</i> CK
Project Title SITE ID: US-C NIGHTMARE MONOPOL 1203 LUBKEN CA LONE PINE, CA	A-5825 ROCK E: NYON RD
Engineer Stamp PROFESSIONA SSAM ZAZZA 71655 CIVIL PROFESSIONA PROFESSIONA PROFESSIONA PROFESSIONA PROFESSIONA CIVIL	*
Drawing Title	IOTES
Drawing Scale: <u>AS NOTED</u> Date: <u>07/15/2024</u>	CD
UNAUTHORIZED ALTERATION TO THIS DOCUMENT IS A APPLICABLE STATE AND/OF	VIOLATION OF
GN-	1

# LEGEND

— x —	CHAIN LINK FENCE		U.G. UTILITY VAULT	VLT	U.G. UTILITY VAULT	UP	UTILITY POLE
<u>D</u>	WOOD FENCE		MANHOLE	AC	ASPHALTIC CONCRETE	LP	LIGHT POLE
— O/H —	OVERHEAD LINE	-O-	UTILITY POLE	AP	ASPHALT PAVING	WLP	WOOD LIGHT POLE
O	METAL FENCE	XXXXX	SPOT ELEVATION	R.O.W.	RIGHT OF WAY	LUM	LUMINAIRE
· · ·	GRADE BREAK		WATER VALVE	R/W	RIGHT OF WAY	ОН	OVERHEAD
	RIGHT OF WAY LINE	$\bigcirc$	FOUND MONUMENT	PUE	PUBLIC UTILITY EASEMENT	CONC	CONCRETE
	CENTER LINE	$\bullet$	GEODETIC MARKER	BCM	BRASS CAP MONUMENT	PED	PEDESTAL
	EASEMENT LINE	<u> </u>	ROAD SIGN	NG	NATURAL GRADE	MON	MONUMENT

THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP. THE PROPERTY LINES AND EASEMENTS NOT FOR RECORDATION AS AN OFFICIAL RECORD OF SURVEY DRAWING. ALL STATES ENGINEERING & SURVEYING / LAYTON SURVEYS LLC. TRANSLATED THE TOPOGRAPHIC SURVEY TO RECORD INFORMATION USING MONUMENT(S)/LANDMARK(S) SHOWN HEREON. NO TITLE RESEARCH WAS PERFORMED BY ALL STATES ENGINEERING & SURVEYING / LAYTON SURVEYS LLC.

LIABILITY.

SURVEYS LLC. & SHALL NOT BE USED ON ANY OTHER WORK EXCEPT BY AGREEMENT WITH THE SURVEYOR, AND BY WRITTEN

SHALL BE NOTICED TO THE SURVEYOR PRIOR TO COMMENCEMENT OF ANY WORK.

OF INYO, STATE OF CALIFORNIA.

2023.

RECORDS TO DETERMINE ANY DEFECT IN TITLE.

WESTCOR LAND TITLE INSURANCE COMPANY; ORDER NO.: IC-TWR-151701-C; CUSTOMER REFERENCE NUMBER: NIGHTMARE ROCK-PHEASANT CLUB. AND DATED: December 13, 2023 9:19 A.M.

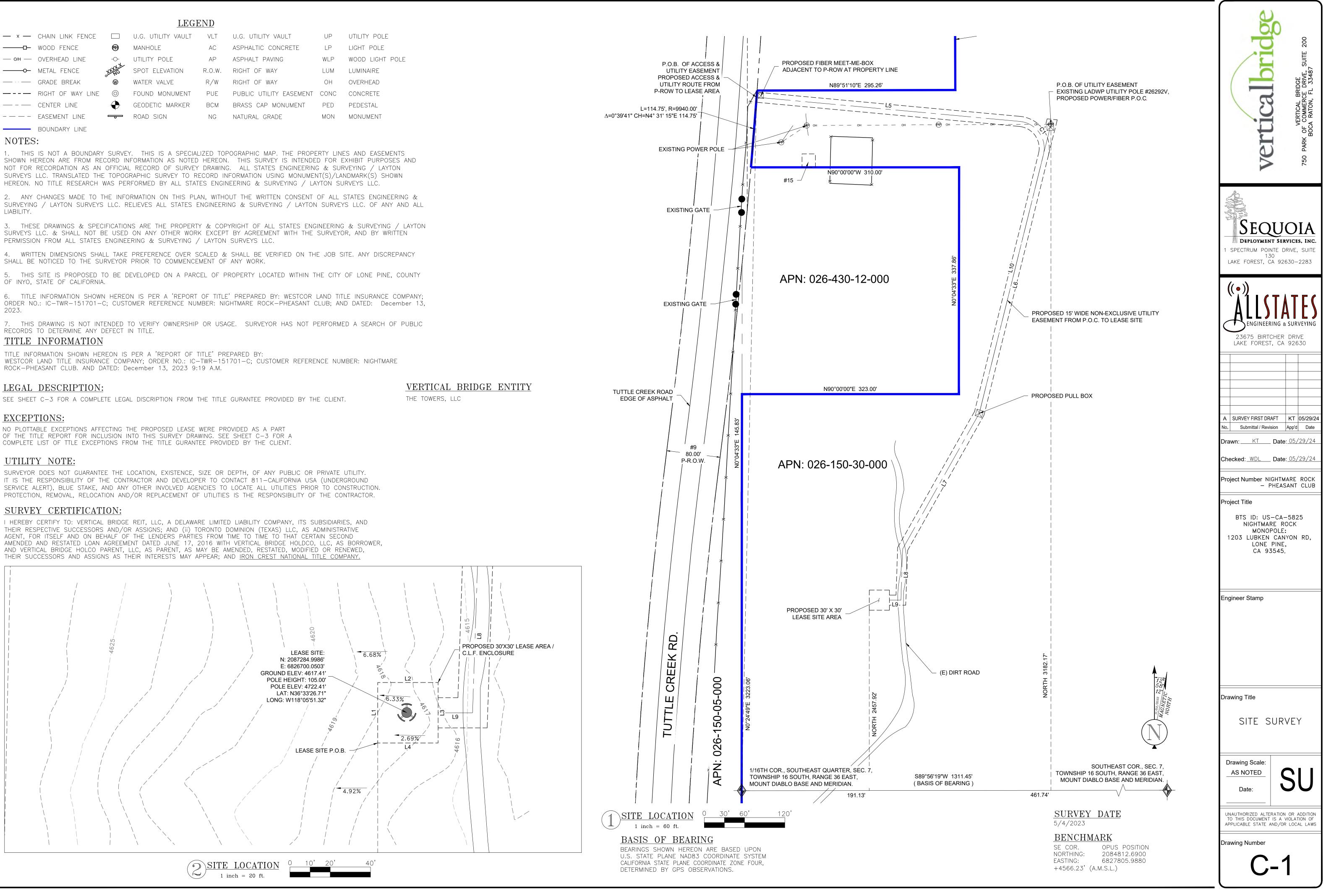
# LEGAL DESCRIPTION:

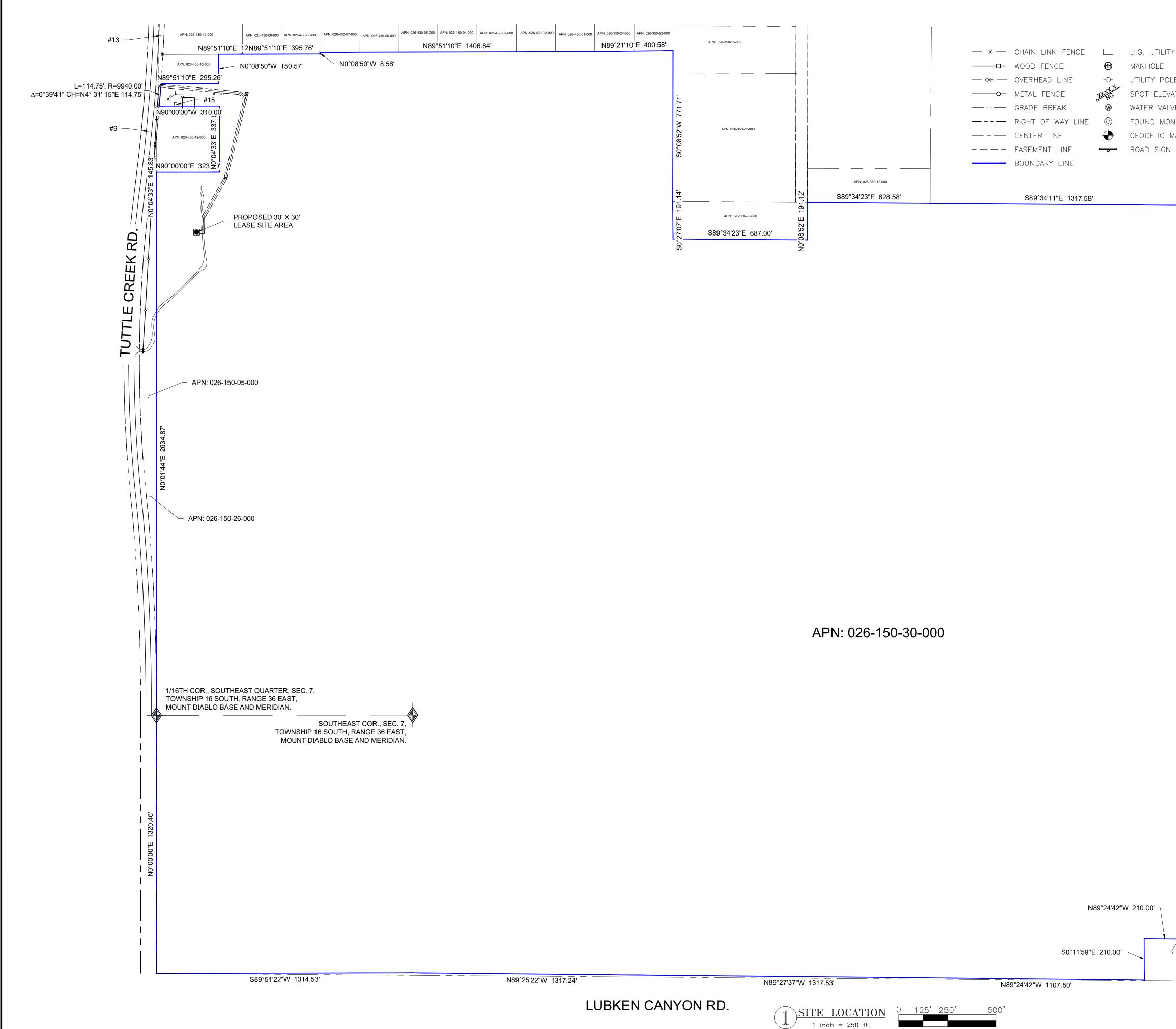
SEE SHEET C-3 FOR A COMPLETE LEGAL DISCRIPTION FROM THE TITLE GURANTEE PROVIDED BY THE CLIENT.

NO PLOTTABLE EXCEPTIONS AFFECTING THE PROPOSED LEASE WERE PROVIDED AS A PART OF THE TITLE REPORT FOR INCLUSION INTO THIS SURVEY DRAWING. SEE SHEET C-3 FOR A

SURVEYOR DOES NOT GUARANTEE THE LOCATION, EXISTENCE, SIZE OR DEPTH, OF ANY PUBLIC OR PRIVATE UTILITY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT 811-CALIFORNIA USA (UNDERGROUND PROTECTION, REMOVAL, RELOCATION AND/OR REPLACEMENT OF UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.

I HEREBY CERTIFY TO: VERTICAL BRIDGE REIT, LLC, A DELAWARE LIMITED LIABILITY COMPANY, ITS SUBSIDIARIES, AND THEIR RESPECTIVE SUCCESSORS AND/OR ASSIGNS: AND (ii) TORONTO DOMINION (TEXAS) LLC, AS ADMINISTRATIVE AGENT, FOR ITSELF AND ON BEHALF OF THE LENDERS PARTIES FROM TIME TO TIME TO THAT CERTAIN SECOND AMENDED AND RESTATED LOAN AGREEMENT DATED JUNE 17, 2016 WITH VERTICAL BRIDGE HOLDCO, LLC, AS BORROWER, AND VERTICAL BRIDGE HOLCO PARENT, LLC, AS PARENT, AS MAY BE AMENDED, RESTATED, MODIFIED OR RENEWED,





1 inch = 250 ft.

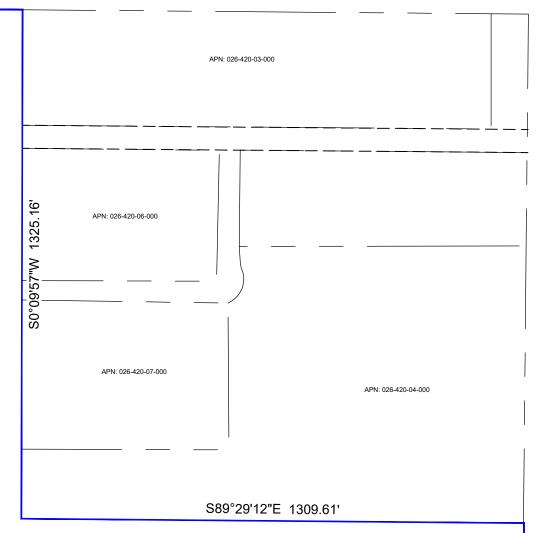
# <u>LEGEND</u>

y vault	VL
	AC
_E	AF
ATION	R.0.
VE	R/
NUMENT	ΡU
MARKER	BC
	N

VLT U.G. UTILITY VAULT AC ASPHALTIC CONCRETE AP ASPHALT PAVING D.W. RIGHT OF WAY /W RIGHT OF WAY UE PUBLIC UTILITY EASEMENT CONC CONCRETE CM BRASS CAP MONUMENT NG NATURAL GRADE

UP UTILITY POLE LP LIGHT POLE WLP WOOD LIGHT POLE LUM LUMINAIRE OH OVERHEAD PED PEDESTAL MON MONUMENT

APN: 026-150-07-000



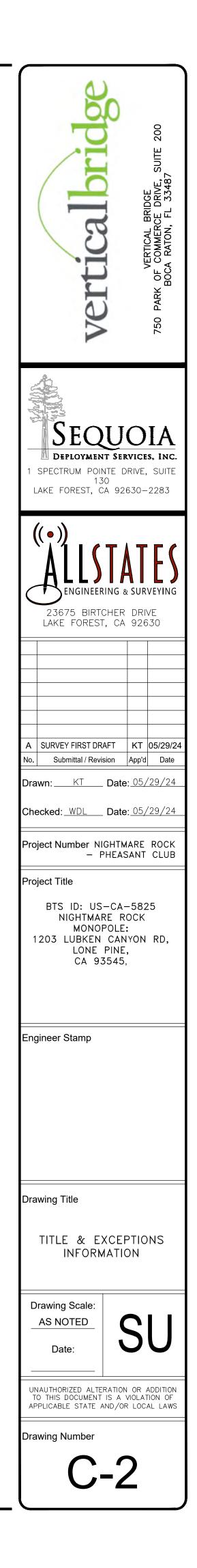


NET RTH

- APN: 026-160-02-000

-N0°11'59"W 210.00'

N89°27'56"W 1316.94'



# LEGAL DESCRIPTION:

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF INYO, STATE OF CA, AND IS DESCRIBED AS FOLLOWS: PROPERTY LOCATED IN INYO COUNTY, CALIFORNIA:

PARCEL 1:

THAT CERTAIN PARCEL DESIGNATED "REMAINDER" AS SHOWN ON THE MAP ENTITLED "TRACT MAP NO. 248" RECORDED IN BOOK 4 OF SUBDIVISION MAPS AT PAGES 82 THROUGH 84 INCLUSIVE, IN THE OFFICE OF THE COUNTY RECORDER, COUNTY OF INYO, STATE OF CALIFORNIA. EXCEPTING THEREFROM THE SOUTHERLY 5.20 FEET. MEASURED AT RIGHT ANGLES. OF THE NORTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 17, TOWNSHIP 16 SOUTH, RANGE 36 EAST, M.D.B.&M., IN THE COUNTY OF INYO, STATE OF CALIFORNIA. ALSO EXCEPTING THEREFROM THE SOUTHERLY 5.20 FEET, MEASURED AT RIGHT ANGLES, OF THE

FOLLOWING DESCRIBED PARCEL: THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 16 SOUTH, RANGE 36 EAST, M.D.B.&M., IN THE COUNTY OF INYO, STATE OF CALIFORNIA. EXCEPTING THEREFROM THAT CERTAIN REAL PROPERTY DESCRIBED IN THE GRANT DEED RECORDED AS DOCUMENT # 2014-0001590 IN THE

OFFICIAL RECORDS OF SAID COUNTY. ALSO EXCEPTING THEREFROM THE SOUTHERLY 5.20 FEET, MEASURED AT RIGHT ANGLES, OF THE NORTHEAST QUARTER OF THE NORTHEAST QUARTER OF SECTION 17, TOWNSHIP 16 SOUTH, RANGE 36 EAST, M.D.B.&M., IN THE COUNTY OF INYO, STATE OF CALIFORNIA.

PARCEL 2:

THAT PORTION OF THE NW 1/4 OF THE SE 1/4 OF SECTION 7 LYING EAST OF TUTTLE CREEK ROAD. PARCEL ID: 026-150-30-00 (PARCEL 1); PORTION OF PARCEL ID: 026-150-05-00 (PARCEL 2)

PARCEL 1 BEING A PORTION OF THE SAME PROPERTY CONVEYED TO SCOTT T. KEMP AND MARY M. KEMP. TRUSTEES OF THE SCOTT T. KEMP LIVING TRUST DTD AUGUST 23, 2011 IN GRANT DEED FROM KATHERINE KEMP TOPPING FORMERLY KNOWN AS KATHERINE A. KEMP, SUCCESSOR TRUSTEE TO RONALD C. KEMP, FORMER TRUSTEE OF THE RONALD C. KEMP 1995 TRUST AGREEMENT, DATED MAY 4, 1995 WHICH ACQUIRED TITLE AS THE KEMP TRUST 1995, DATED MAY 4, 1995 DATED AUGUST 22, 2011 AND RECORDED AUGUST 29, 2011 IN INSTRUMENT NO. 2011-0002555-00. PARCEL 2 BEING A PORTION OF THE SAME PROPERTY CONVEYED TO LOS ANGELES DEPARTMENT OF WATER AND POWER IN ACT OF CONGRESS FROM THE UNITED STATES OF AMERICA.

Parcel ID: 026-150-30-00 (Parcel 1); Portion of Parcel ID: 026-150-05-00 (Parcel 2)

# LEASE SITE DESCRIPTION:

BEGINNING AT A POINT S.89°56'19"W., A DISTANCE OF 191.13 FEET, THENCE NORTH, A DISTANCE OF 2457.92 FEET FROM THE SOUTHEAST MONUMENT CORNER OF SECTION 7, TOWNSHIP 16 SOUTH, RANGE 36 EAST, MOUNT DIABLO BASE AND MERIDIAN, SAID POINT ALSO HAVING A BASIS OF BEARING S.89°56'19"W., 1311.45 FEET, BETWEEN THE SOUTHEAST MONUMENT CORNER AND THE FOUND 1/16TH MONUMENT CORNER, OF THE SOUTHEAST QUARTER OF SAID SECTION; RUNNING THENCE WEST., A DISTANCE OF 30.00 FEET, THENCE NORTH.. A DISTANCE OF 30.00 FEET, THENCE EAST., A DISTANCE OF 30.00 FEET, THENCE SOUTH., A DISTANCE OF 30.00 FEET TO THE POINT OF BEGINNING.

CONTAINING 900.00 SQFT MORE OR LESS

BEGINNING AT A POINT N.02°37'40"E., A DISTANCE OF 1862.65 FEET FROM THE SOUTHEAST MONUMENT CORNER OF SECTION 7, TOWNSHIP 16 SOUTH, RANGE 36 EAST, MOUNT DIABLO BASE AND MERIDIAN, SAID POINT ALSO HAVING A BASIS OF BEARING S.89°56'19"W., 1311.45 FEET, BETWEEN THE SOUTHEAST MONUMENT CORNER AND THE FOUND 1/16TH MONUMENT CORNER, OF THE SOUTHEAST QUARTER OF SAID SECTION; RUNNING THENCE S.84°44'50"E., A DISTANCE OF 393.75 FEET ; THENCE SOUTHEASTERLY ALONG THE ARC OF CURVE TO THE RIGHT A DISTANCE OF 68.89 FEET HAVING A RADIUS OF 40.00 FEET A CENTRAL ANGLE OF 98°40'34" AND CHORD BEARING AND DISTANCE OF S.35°24'33"E. 60.69 FEET;; THENCE S.13°55'43"W., A DISTANCE OF 397.16 FEET; THENCE S.29°27'58"W., A DISTANCE OF 232.02 FEET; THENCE S.01°55'48"W., A DISTANCE OF 76.40 FEET; THENCE WEST, A DISTANCE OF 17.09 FEET TO THE POINT OF TERMINUS.

# **UTILITY EASEMENT DESCRIPTION:**

CENTERLINE:

BEGINNING AT A POINT S.89°56'19"W., A DISTANCE OF 461.74 FEET, THENCE NORTH, A DISTANCE OF 3182.17 FEET FROM THE SOUTHEAST MONUMENT CORNER OF SECTION 7, TOWNSHIP 16 SOUTH, RANGE 36 EAST, MOUNT DIABLO BASE AND MERIDIAN, SAID POINT ALSO HAVING A BASIS OF BEARING S.89°56'19"W., 1311.45 FEET, BETWEEN THE SOUTHEAST MONUMENT CORNER AND THE FOUND 1/16TH MONUMENT CORNER, OF THE SOUTHEAST QUARTER OF SAID SECTION; RUNNING THENCE S.13°55'43"W., A DISTANCE OF 443.72 FEET; THENCE S.29°27'58"W., A DISTANCE OF 232.02 FEET; THENCE S.01°55'48"W., A DISTANCE OF 76.40 FEET; THENCE WEST, A DISTANCE OF 17.09 FEET TO THE POINT OF TERMINUS.



VICINITY MAP

# ACCESS & UTILITY EASEMENT DESCRIPTION:

AN EASEMENT, 15.00 FEET IN WIDTH, BEING 7.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE:

AN EASEMENT, 15.00 FEET IN WIDTH, BEING 7.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED

ı 11.						
12.	LINE TABLE					
13.		EARING	IGTH B	LE	LINE #	
14.	=	10° 00' 00"E	0.00	3	L1	
15.	Е	90° 00' 00"	0.00 N	3	L2	
16.	=	50° 00' 00"E	0.00	3	L3	
17.	W	90° 00' 00"\	0.00 N	3	L4	
18.	Ε	84° 44' 50"	3.75 \$	39	L5	
	S13° 55' 43"W		7.16 S	39	L6	
	W	29° 27' 58"\	2.02 S	2	L7	
	V	1° 55' 48"W	6.40	7	L8	
	W	90° 00' 00"\	.09 N	1	L9	
	W	13° 55' 43"\	3.72 S	44	L10	
CURVE						
ELT	[	RADIUS	LENGTH	#	CURVE	

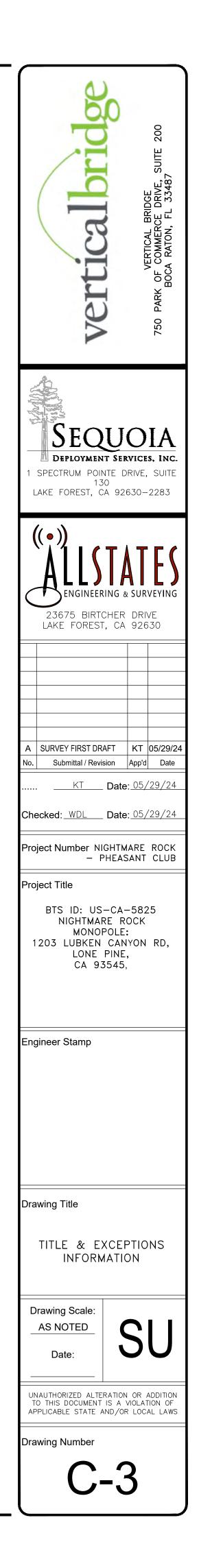
# **EXCEPTIONS:**

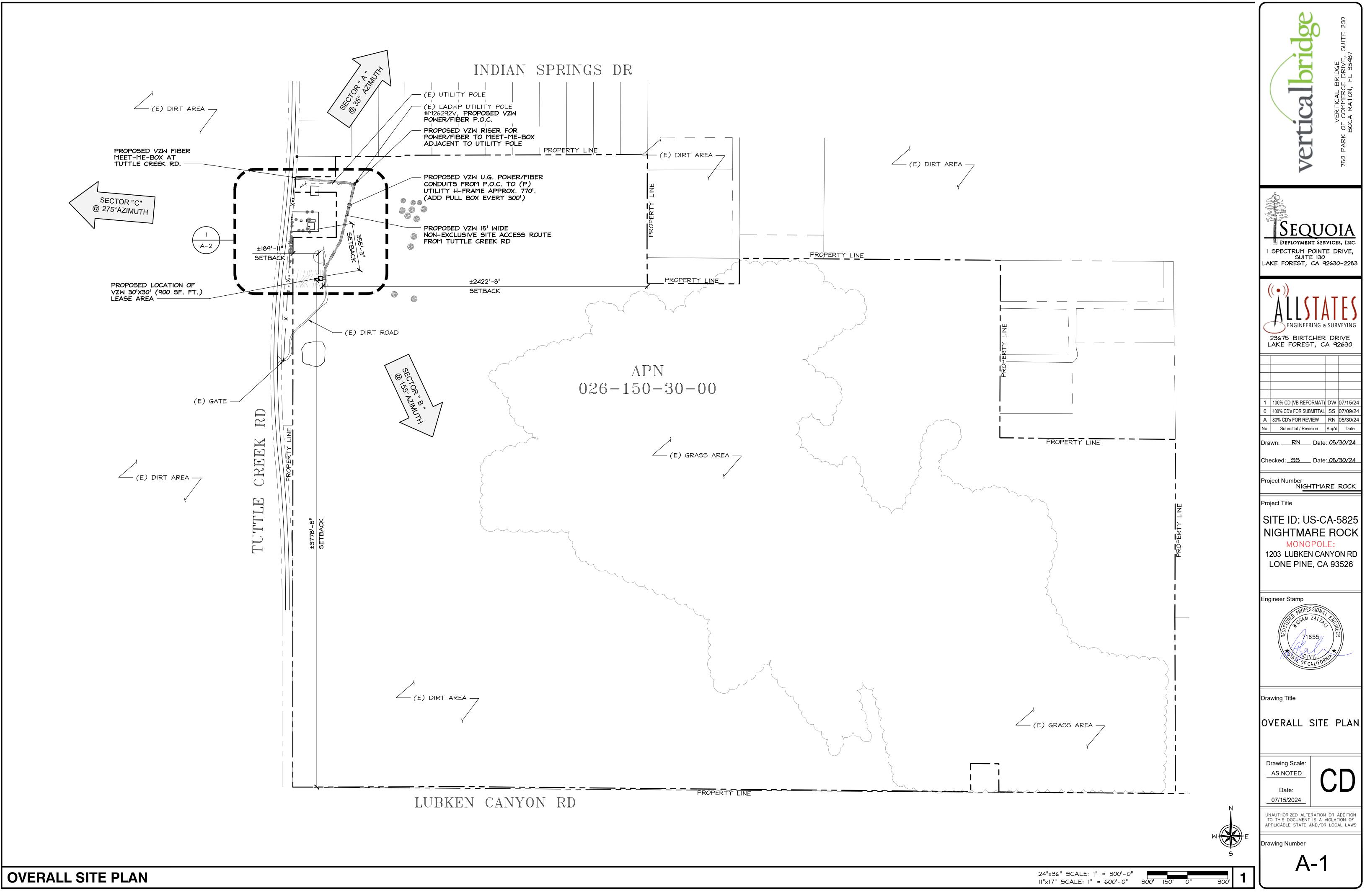
- 1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET. ( NOT A SURVEY MATTER )
- ANY RIGHTS, INTERESTS OR CLAIMS, WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS BUT WHICH COULD BE ASCERTAINED BY AN INSPECTION OF LAND OR WHICH MAY BE ASSERTED BY PERSONS IN POSSESSION THEREOF. ( NOT AS SURVEY MATTER )
- 3. DISCREPANCIES, CONFLICTS IN BOUNDARY LINES, SHORTAGE IN AREA, ENCROACHMENTS, OR ANY OTHER MATTERS WHICH A CORRECT SURVEY WOULD DISCLOSE AND WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS. (A) UNPATENTED MINING CLAIMS;(B) RESERVATIONS OR EXCEPTIONS IN PATENTS OR IN ACTS AUTHORIZING THE ISSUANCE THEREOF;(C) WATER RIGHTS, CLAIMS OR TITLE TO WATER, WHETHER OR NOT THE MATTERS EXCEPTED UNDER (A),(B) OR (C) ARE SHOWN IN THE PUBLIC RECORDS. ( NOT A SURVEY MATTER )
- 4. TAXES AND ASSESSMENTS FOR THE YEAR 2023 AND ALL SUBSEQUENT YEARS ARE A LIEN BUT NOT YET DUE AND PAYABLE. ( NOT A SURVEY MATTER )
- 5. OIL, GAS AND MINERAL RIGHTS RESERVED IN THE JOINT TENANCY GRANT DEED DATED AUGUST 30, 1956 AND RECORDED AUGUST 31, 1956 IN (BOOK) 122 (PAGE) 675 IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- 6. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "RECORD OF SURVEY" DATED JUNE 7, 1963 AND RECORDED JUNE 24, 1963 IN (BOOK) 8 (PAGE) 40, IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- 7. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "RECORD OF SURVEY" DATED FEBRUARY 24, 1972 AND RECORDED FEBRUARY 24, 1972 IN (BOOK) 10 (PAGE) 30, IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- 8. EASEMENT DEED BETWEEN THE CITY OF LOS ANGELES, A MUNICIPAL CORPORATION; AND COUNTY OF INYO, A BODY CORPORATE AND POLITIC, DATED FEBRUARY 25, 1974 AND RECORDED JULY 22, 1974 IN (BOOK) 209 (PAGE) 114 (INSTRUMENT) 2525, IN INYO COUNTY, CALIFORNIA. (AS TO PARCEL 2) ( PLOTTABLE, OUTSIDE SUBJECT PARCEL )
- 9. EASEMENT DEED BETWEEN THE CITY OF LOS ANGELES, A MUNICIPAL CORPORATION; AND COUNTY OF INYO, A BODY CORPORATE AND POLITIC, DATED MARCH 25, 1974 AND RECORDED JULY 30, 1974 IN (BOOK) 209 (PAGE) 224 (INSTRUMENT) 2633, IN INYO COUNTY, CALIFORNIA. (AS TO PARCEL 2) ( PLOTTABLE, AS SHOWN HEREON )
- 10. ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PARCEL MAP NO. 118" DATED FEBRUARY 7, 1977 AND RECORDED APRIL 13, 1977 IN (BOOK) 2 (PAGE) 6, IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "PARCEL MAP NO. 140" DATED FEBRUARY 21, 1979 AND RECORDED FEBRUARY 21, 1979 IN (BOOK) 2 (PAGE) 31, IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "VACATION OF R/W" DATED APRIL 12, 1990 AND RECORDED JULY 6, 1990 IN (BOOK) 4 (PAGE) 12, IN INYO COUNTY, CALIFORNIA. AFFECTED BY ANY AND ALL MATTERS DISCLOSED ON "VACATION OF STATE HIGHWAY RIGHT OF WAY" DATED AUGUST 13, 1990 AND RECORDED AUGUST 23, 1990 IN, (INSTRUMENT) 90 5756 IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- LOT LINE ADJUSTMENT NO. 2008-01 DATED JUNE 8, 2009 AND RECORDED JUNE 8, 2009 IN (INSTRUMENT) 2009-0001532-00, IN INYO COUNTY, CALIFORNIA. ( PLOTTABLE, AS SHOWN HEREON )
- ANY AND ALL MATTERS DISCLOSED ON THE MAP ENTITLED "TRACT MAP NO. 248" DATED APRIL 8, 2013 AND RECORDED JUNE 19, 2013 IN (BOOK) 4 (PAGE) 82, (INSTRUMENT) 2013-0002236 IN INYO COUNTY, CALIFORNIA. AFFECTED BY ANY AND ALL MATTERS DISCLOSED ON "NOTICE" DATED JUNE 19, 2013 AND RECORDED JUNE 19, 2013 IN , (INSTRUMENT) 2013-0002236-00 IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- WELL-SITE EASEMENT DEED BETWEEN SCOTT T. KEMP AND MARY M. KEMP, TRUSTEES OF THE SCOTT T. KEMP LIVING TRUST DTD AUGUST 23, 2011; AND CARSON PEAK VENTURES, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY, DATED SEPTEMBER 12, 2014 AND RECORDED MARCH 2, 2015 IN (INSTRUMENT) 2015-0000457-00, IN INYO COUNTY, CALIFORNIA. ( PLOTTABLE, AS SHOWN HEREON )
- EASEMENT AGREEMENT BETWEEN SCOTT T. KEMP AND MARY M. KEMP, TRUSTEES OF THE KEMP LIVING TRUST DATED AUGUST 23, 2011; AND CARSON PEAK VENTURES, LLC, A CALIFORNIA LIMITED LIABILITY COMPANY, DATED DECEMBER 1, 2014 AND RECORDED MARCH 2, 2015 IN (INSTRUMENT) 2015-0000458-00, IN INYO COUNTY, CALIFORNIA. ( BLANKET )
- LOT LINE ADJUSTMENT NO. 2016-04 DATED AUGUST 29, 2016 AND RECORDED AUGUST 29, 2016 IN (INSTRUMENT) 2016-0002357-00, IN INYO COUNTY, CALIFORNIA. ( PLOTTABLE, OUTSIDE SUBJECT PARCEL )
- RIGHTS OF FEE SIMPLE OWNERS IN AND TO THE SUBJECT PROPERTY. ( BLANKET )

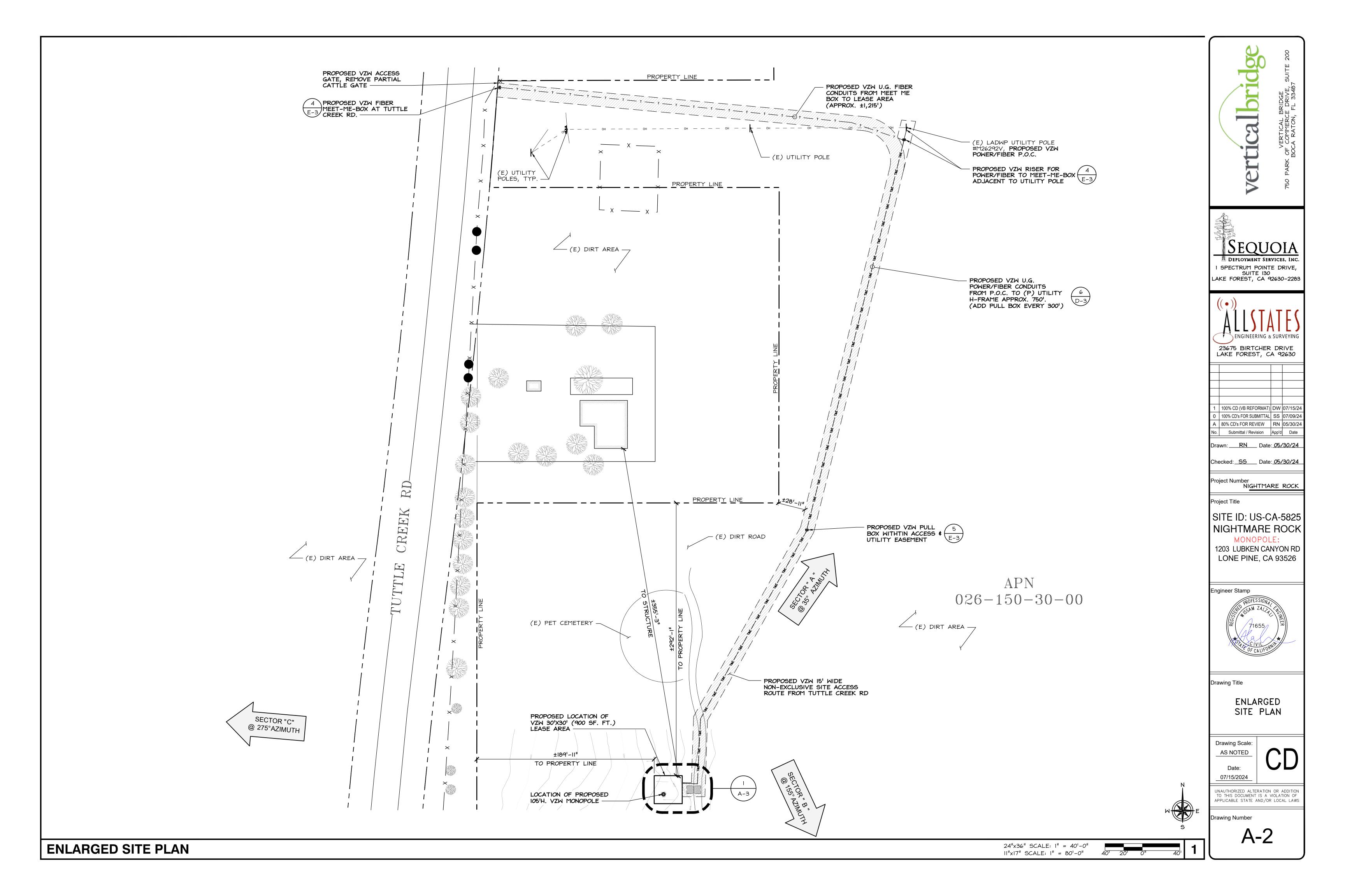
				•				
CURVE TABLE								
CURVE	#	LENGTH	RADIUS	DELTA	CHORD BEARING	СНО		
C 1		68.89	40.00	98.68	S35°24'33"E	60.6		

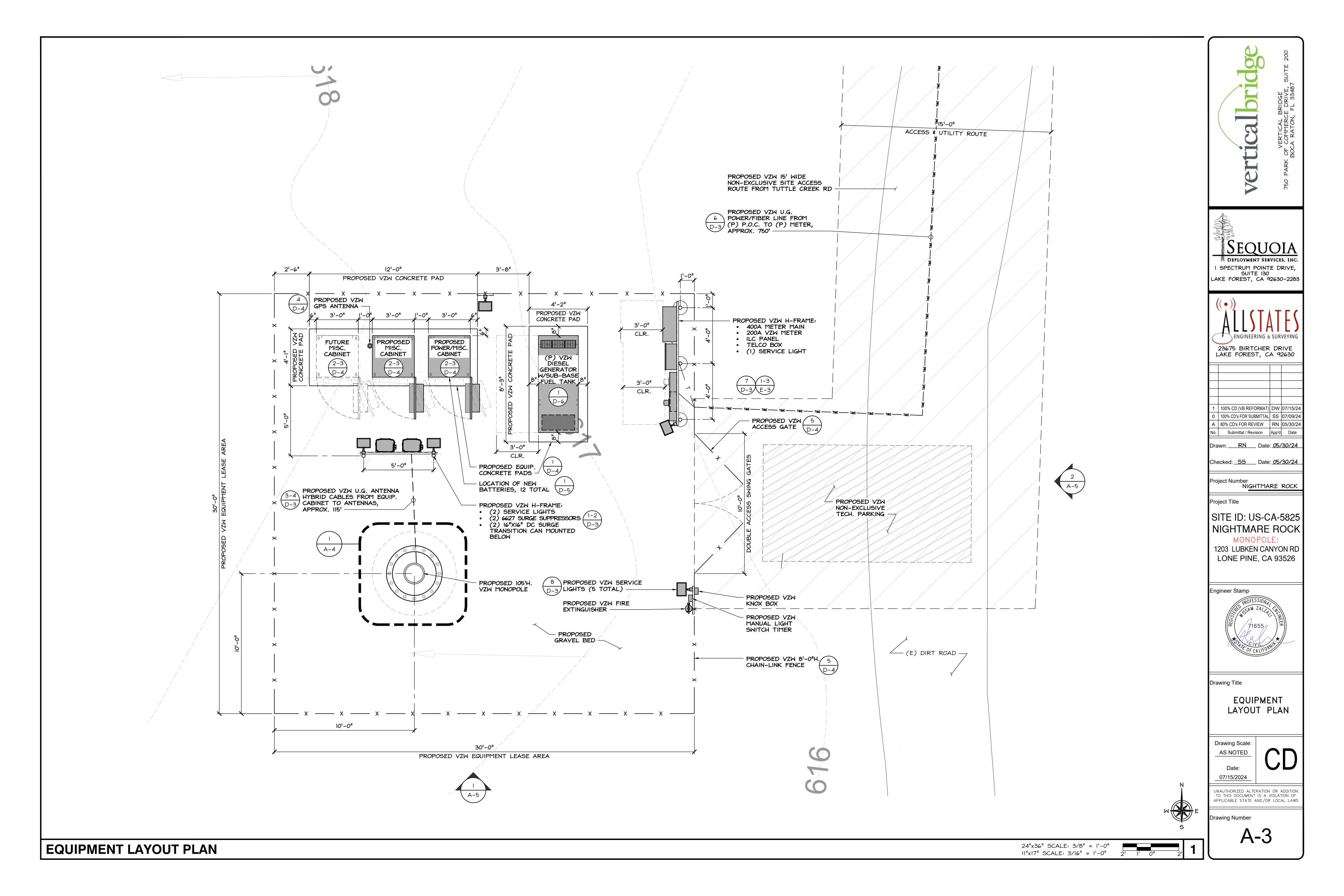


69







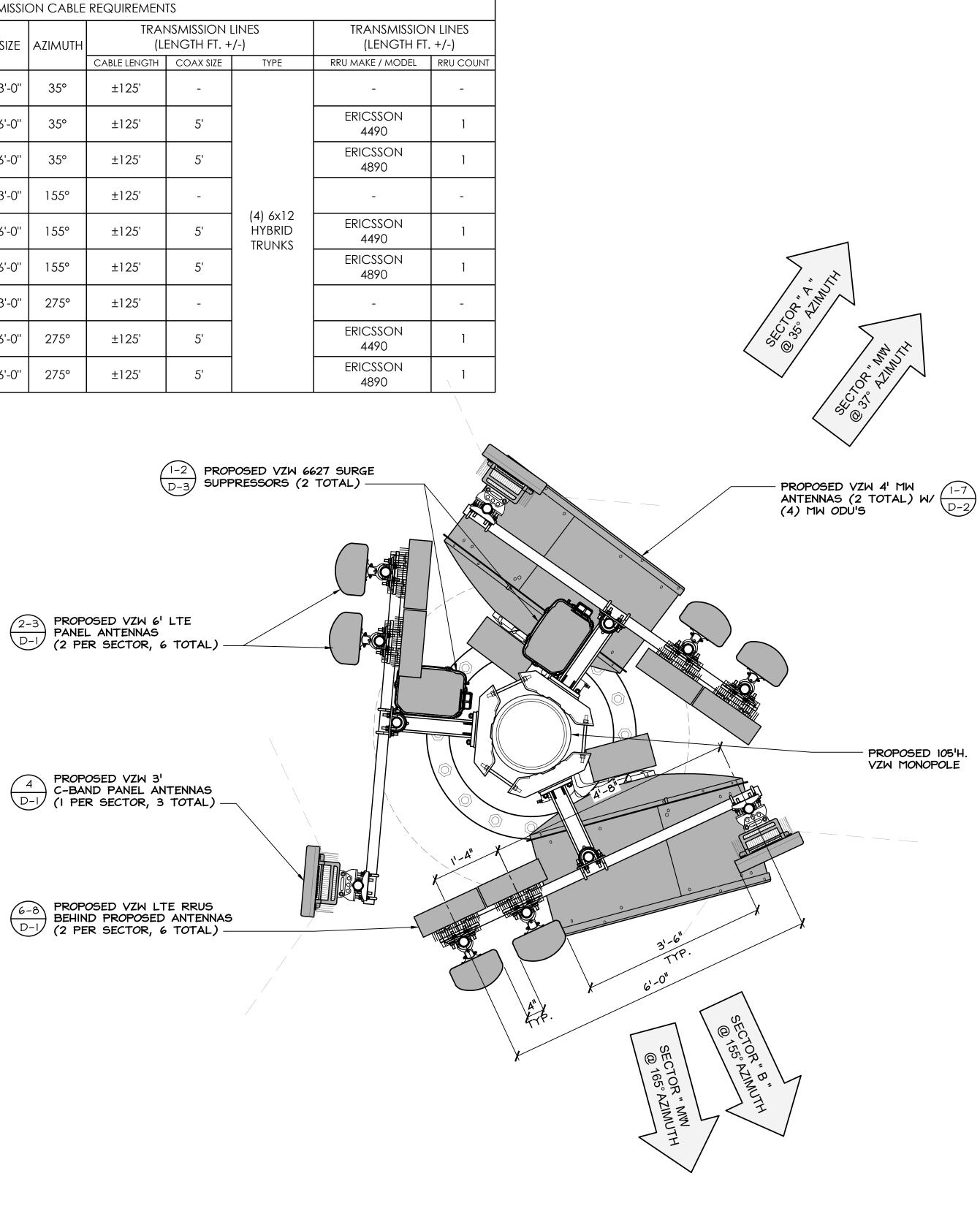


	NEW ANTENNA AND TRANSMISSION CABLE REG								
			RAD		ANTENNA				
SEC	TOR		CENTER	TECHNOLOGY	MFR./MODEL #	COUNT	SIZE	AZIMUTH	СА
	A1	NEW	101'-7''	C-BAND	ERICSSON AIR6419	1	3'-0''	35°	
ALPHA	A2	NEW	100'	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0''	35°	
	A3	NEW	100'	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0''	35°	
	B1	NEW	101'-7"	C-BAND	ERICSSON AIR6419	1	3'-0''	155°	
BETA	B2	B2 NEW 100' LTE		COMMSCOPE NHH-65B-R2B	1	6'-0''	155°		
	B3 NEW		100'	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0''	155°	
	C1	NEW	101'-7''	C-BAND	ERICSSON AIR6419	1	3'-0''	275°	
GAMMA	C2	NEW	100'	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0''	275°	
	C3	NEW	100'	LTE	COMMSCOPE NHH-65B-R2B	1	6'-0''	275°	

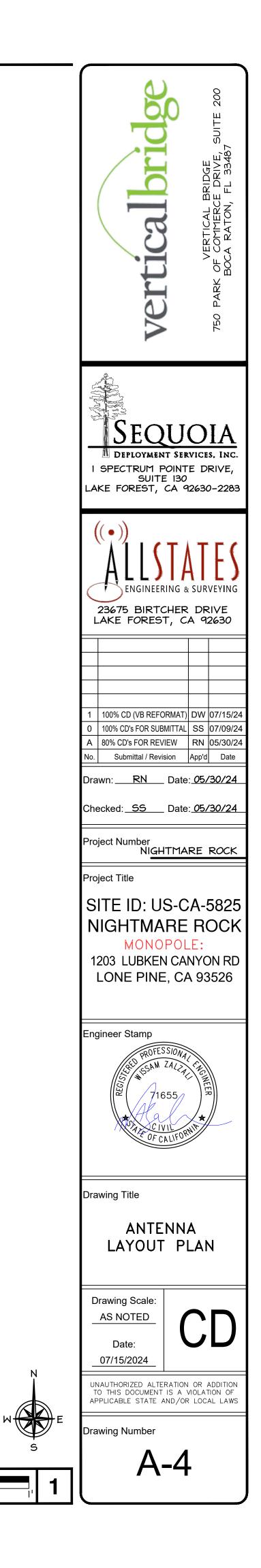




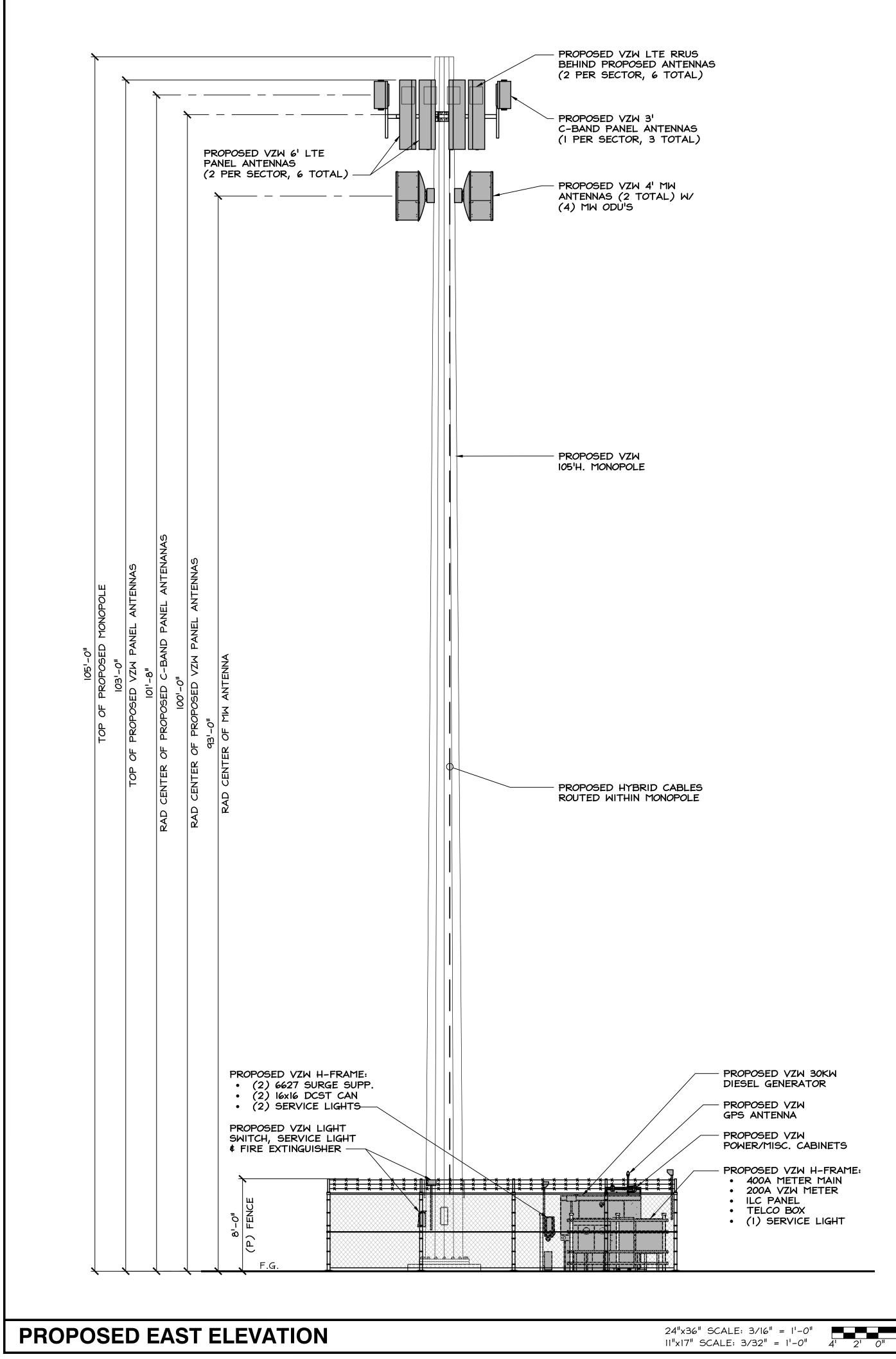
ANTENNA LAYOUT PLAN



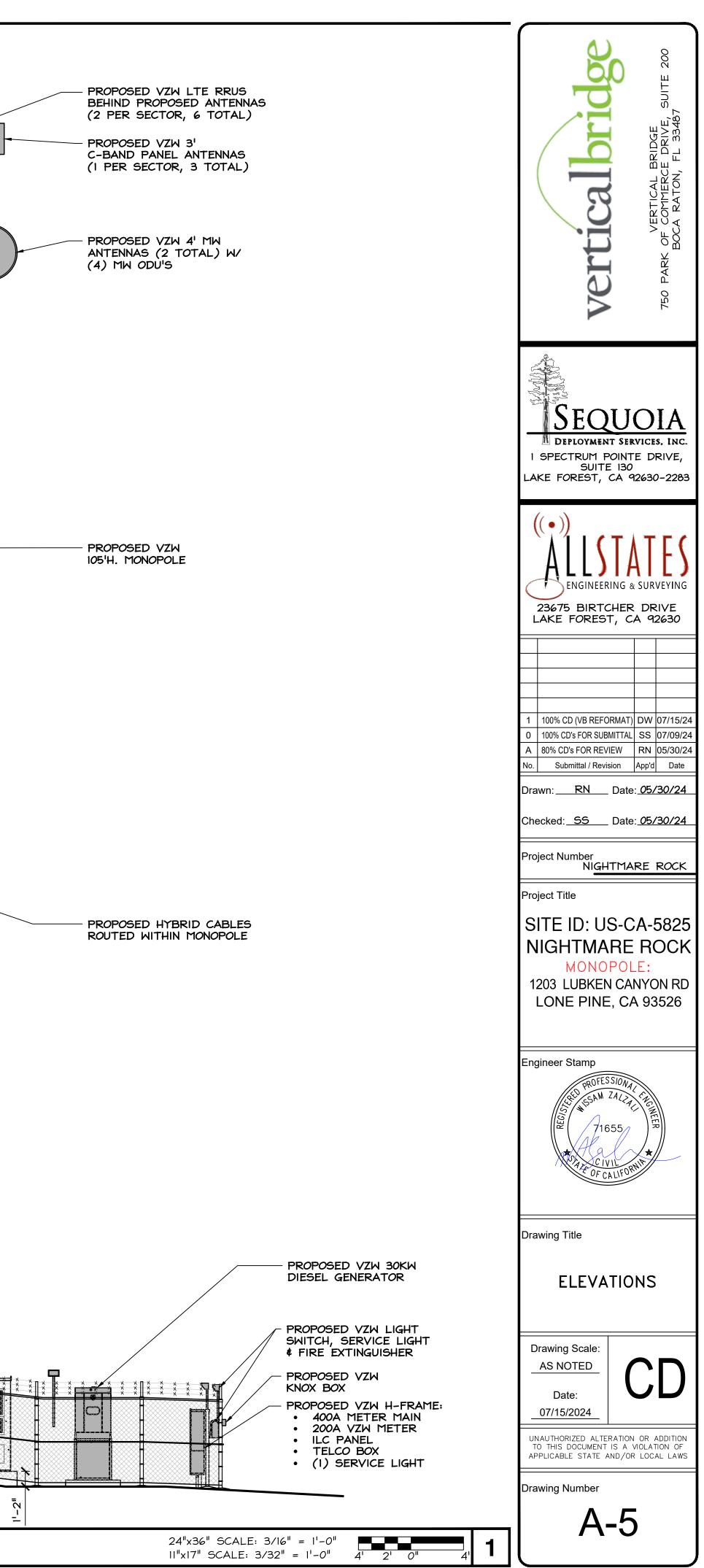
PANEL ANTENNAS RAD CENTERS 100'-0" & 101'-7" MW ANTENNAS RAD CENTER: 93'-0"



24"x36" SCALE: 3/4" = 1'-0" 11"x17" SCALE: 3/8" = 1'-0"

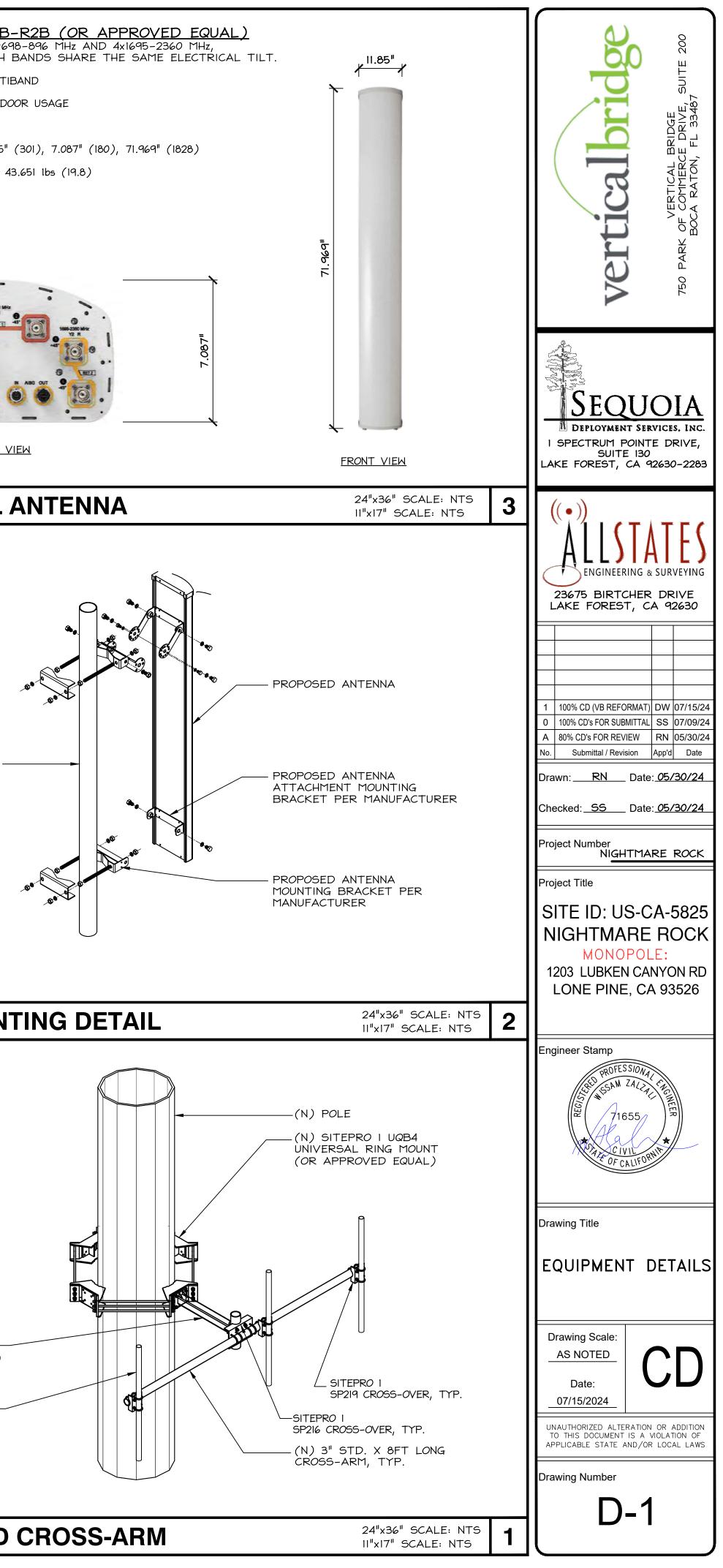


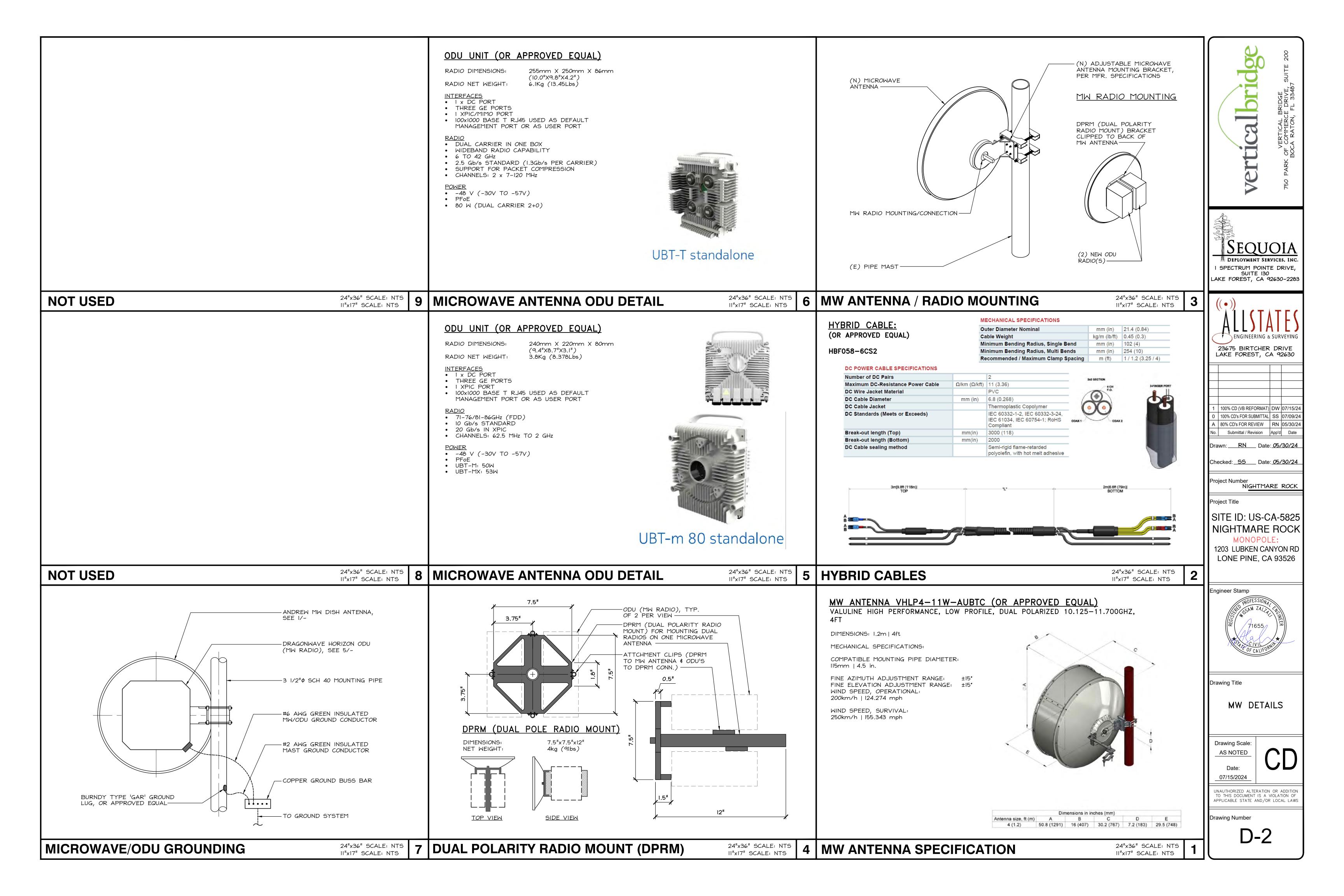
								 	PROPOSED VZW 6' L PANEL ANTENNAS (2 PER SECTOR, 6 -		
		) MONOPOLE		ANEL ANTENNAS		ID PANEL ANTENANAS	PANEL ANTENNAS	▼			
	"O-"SOI	TOP OF PROPOSED MONOPOLE	103'-0"	TOP OF PROPOSED VZW PANEL ANTENNAS	ĺ	RAD CENTER OF PROPOSED C-BAND PANEL ANTENANAS 100'-0"	RAD CENTER OF PROPOSED VZM PANEL ANTENNAS	RAD CENTER OF VZM MW ANTENNA			
PROPOSED VZW 30KW DIESEL GENERATOR PROPOSED VZW GPS ANTENNA PROPOSED VZW POWER/MISC. CABINETS PROPOSED VZW H-FRAME: • 400A METER MAIN • 200A VZW METER • ILC PANEL • TELCO BOX • (1) SERVICE LIGHT									PROPOSED VZW GPS ANTENNA PROPOSED VZW POWER/MISC. CABINE PROPOSED VZW H-FF • (2) 6627 SURGE • (2) 16x16 DCST • (2) SERVICE LIC UNU UNU UNU UNU UNU E.G.	RAME: SUPP. CAN	

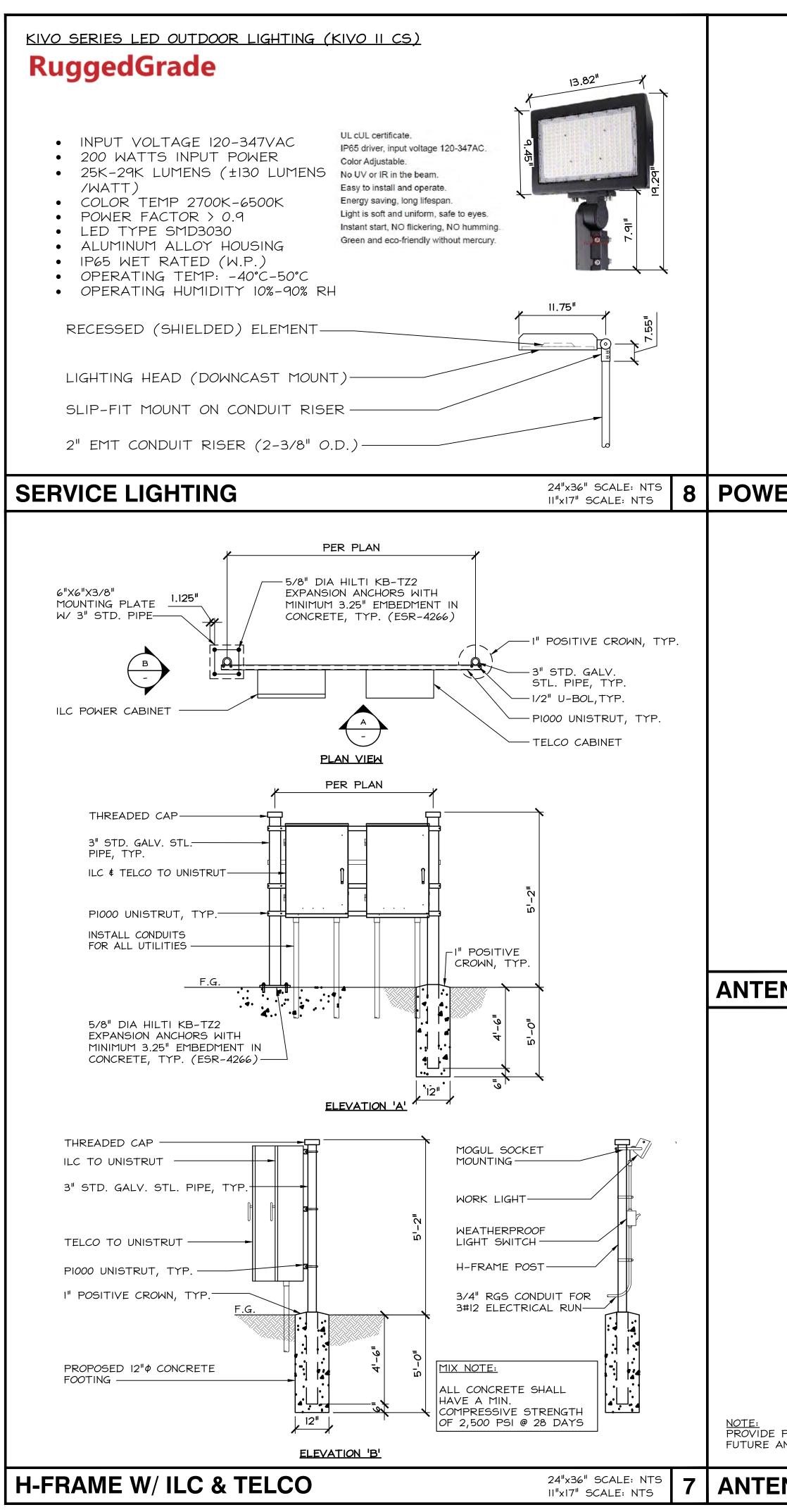


			<u>ERICSS</u> (OR AF
			8 RF F - B
			— B — U
			- L, - 2
			Radio
			48B2 wo pro
			w prot
			— A — T
			- 2 - C
			— II
NOT USED	24"x36" SCALE: NTS	9	RRU S
	II"x17" SCALE: NTS	5	
			<u>NO</u> I.
			2.
NOT USED	24"x36" SCALE: NTS 11"x17" SCALE: NTS	8	RRU N
ERICSSON RADIO 4490HP 44B5 44B13 C			
<u>(or approved equal):</u> 4 common rf ports (c)			<u>MODEL</u> (OR AF
— B5: 4x60W, B13: 4x60W	C		DIMENSIO WEIGHT:
<ul> <li>480W total RF output power</li> <li>L, NR, NB-IoT</li> </ul>			
— 2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI	3 6		
Radio 4490HP 44B5 44B13 C Height Width Depth Weight			
wo protruding items         17.5 ln (444 mm)         15.2 ln (384 mm)         6.8 ln (172 mm)         ~68.4 lbs (~31 kg)           w protruding items         20.6 ln         15.7 ln         7.0 ln         (~31 kg)			
(522 mm) (397 mm) (178 mm)	1 0 HP 14 0 H - HP		
<ul> <li>-48 VDC 2-wire (one DC connector input)</li> <li>AISG v3.0 TMA &amp; RET support via RS-485 or RF connectors</li> </ul>			
<ul> <li>Type 4.3-10 RF + connectors</li> <li>2 external alarm</li> </ul>			
<ul> <li>Convectional cooling</li> <li>Optional fan for increased site flexibility</li> </ul>			
— IP 65, -40 to +55°C	<u>BOTTOM VIEW</u>		
RRU SPECIFICATION	24"x36" SCALE: NTS	7	NEW
	11"x17" SCALE: NTS	1	

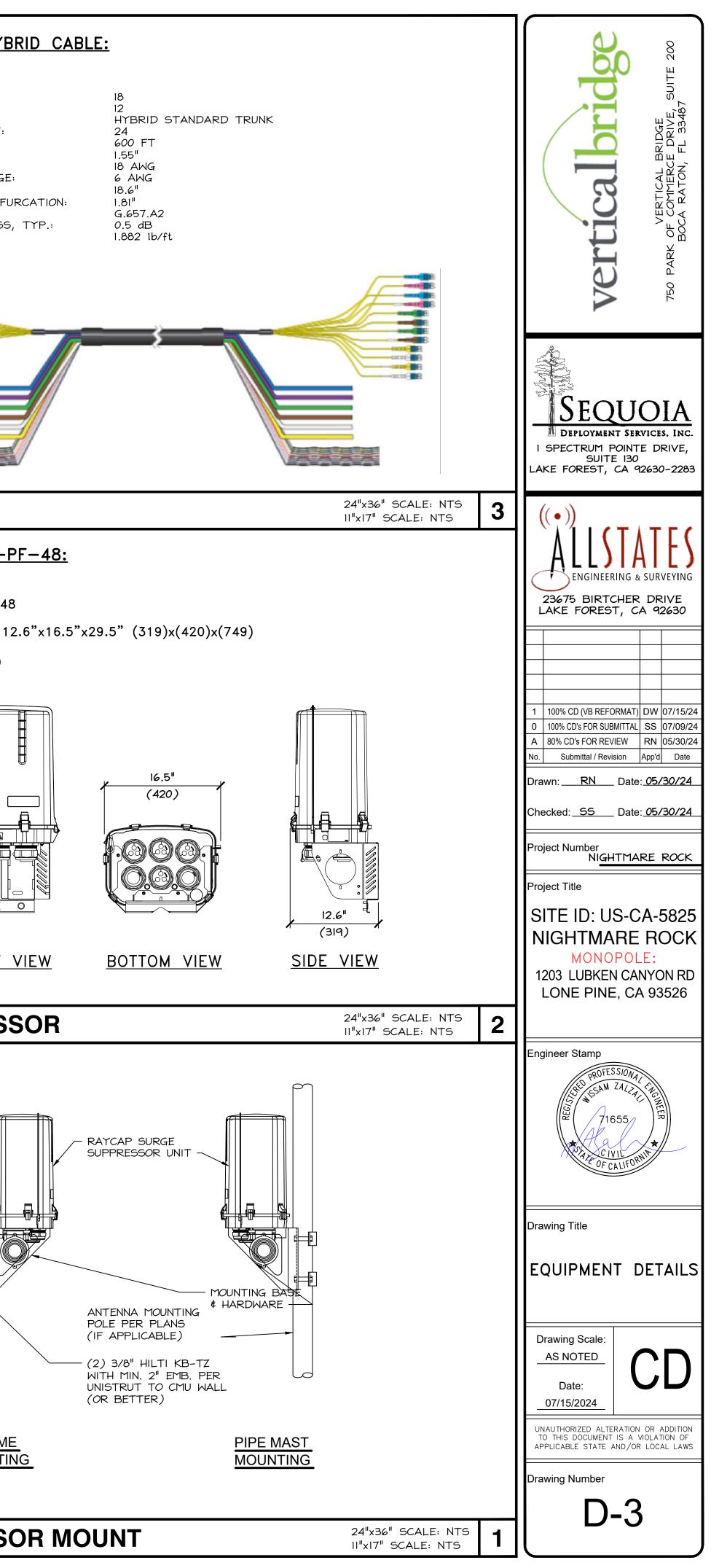
SSON RADIO 4890HP 48B2 48B66 S         APPROVED EQUAL):         PORTS, 4T8R PER BAND (S FOR TX)         B2: 4x60W         B66: 4x60W         Up to 480W in total RF power         L, NR, NB-IoT         2x 2.5/4.9/9.8/10.1/24.3 Gbps CPRI/eCPRI         dio 4890HP         Height       Width         Depth       Weight         32 48B66 S       17.5 ln       15.2 ln       7.0 ln         (444 mm)       (384 mm)       (176 mm)       ~69.5 lbs         votruding items       20.6 ln       15.7 ln       7.2 ln       (~31.5 Kg)		COMMSCOPE - NHH-65B- 6 PORT SECTOR ANTENNA, 2x698 65' HPBW, 2x RET. BOTH HIGH B BAND: MULTIBA PERFORMANCE NOTE: OUTDOO TOTAL RF CONNECTOR: 6 DIMENSIONS WxDxL(mm): II.85" ( WEIGHT: (kg) 43.
-48 VDC 2-wire (single DC-connector), AISG v3.0 TMA & RET support via RS-485 or RF connectors Type 4.3-10 RF + connectors 2 external alarm Convectional cooling — Optional fan for increased site flexibility IP 65, -40 to +55°C	BOTTOM VIEW	BOTTOM VIE
SPECIFICATION	24"x36" SCALE: NTS 11"x17" SCALE: NTS <b>6</b>	NEW LTE PANEL A
	CONTRACTOR TO ATTACHING	ANTENNA MOUNTING PIPE
MOUNTING DETAIL	24"x36" SCALE: NTS 11"x17" SCALE: NTS <b>5</b>	ANTENNA MOUNT
IFACTURER: ERICSSON APPROVED EQUAL)SIONS, HXWXD IN: 31.3" x 16.1" x 9.8" T. 71 LBSImage: Image: Imag		(N) 18" SUPPORT ARM SITE PRO PN: SV197-18- (OR APPROVED EQUAL) (N) MOUNTING PIPE, SITE PRO PN: P372
C-BAND ANTENNA	24"x36" SCALE: NTS 11"x17" SCALE: NTS <b>4</b>	NEW T-ARM AND

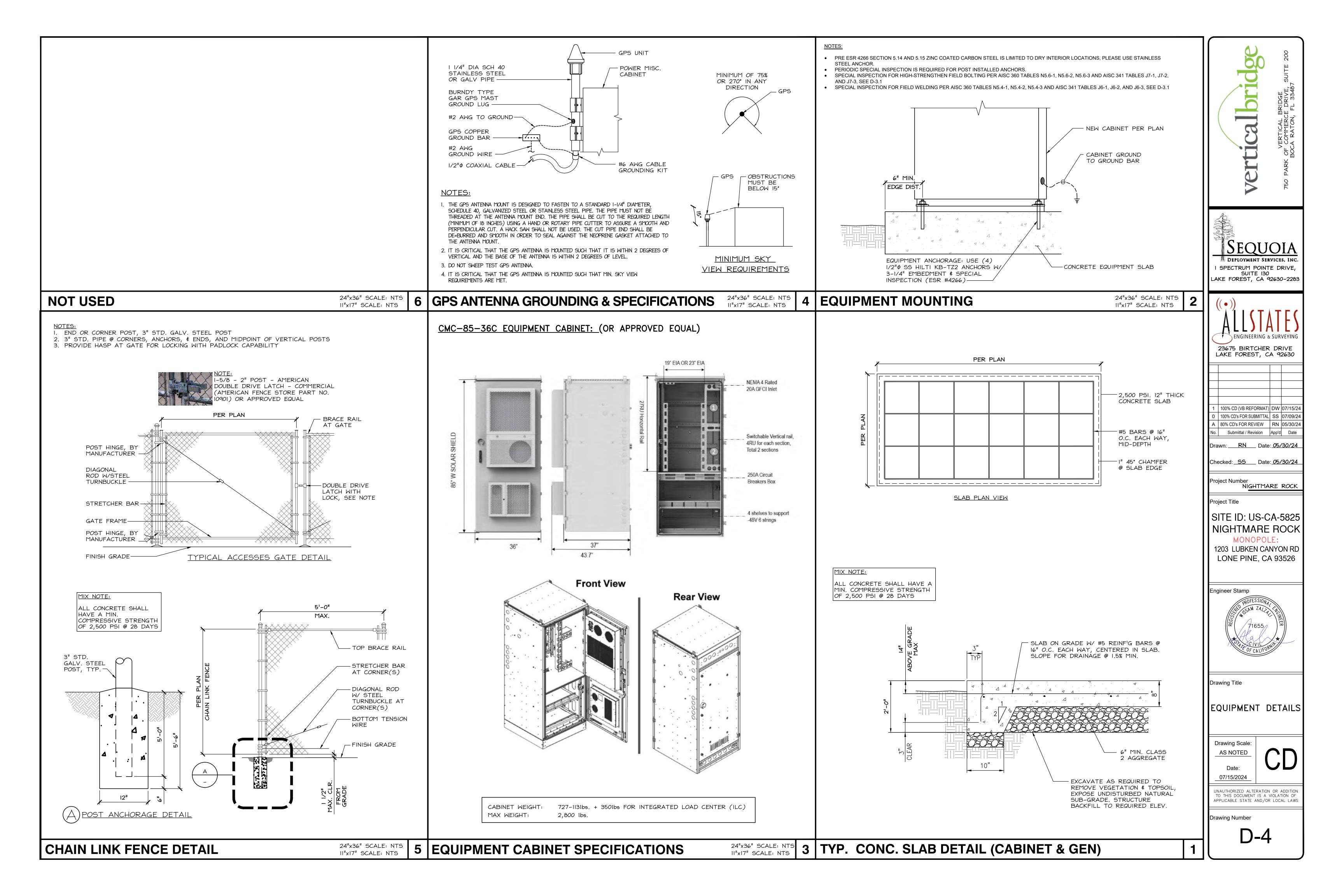






	2'-0"	-MATCH EXISTING FINISH SURFACE		<u>COMMSCOPE 6x12 HYE</u> (or approved equal)
WARNING TAPE AT I'-O" BELOW GRADE		- TRENCH - EXISTING GRADE - UNEXCAVATED		<ul> <li>ALARM WIRE, QUANTITY:</li> <li>CONDUCTORS, QUANTITY:</li> <li>CONSTRUCTION TYPE:</li> <li>TOTAL FIBERS, QUANTITY:</li> <li>CORD LENGTH:</li> <li>DIAMETER OVER JACKET:</li> <li>ALARM WIRE GAUGE:</li> <li>CENTER CONDUCTOR GAUGE</li> <li>MINIMUM BEND RADIOS:</li> <li>MINIMUM BEND RADIUS, FU</li> <li>FIBER TYPE:</li> </ul>
		<ul> <li>COMPACT BACKFILL (90%) WITH SATISFACTORY</li> <li>NATIVE OR IMPORTED SOIL</li> <li>SAND</li> <li>(1) 2" PVC CONDUIT FOR POWER OR (1) 4" PVC CONDUIT FOR FIBER</li> <li>(1) 2" PVC CONDUIT FOR POWER OR (1) 4" PVC CONDUIT FOR FIBER</li> </ul>		<ul> <li>ASSEMBLY INSERTION LOSS</li> <li>CABLE WEIGHT:</li> </ul>
ER / FIBER TREN	СН	24"x36" SCALE: NTS 11"x17" SCALE: NTS	6	HYBRID CABLES
	AT COUPLI	NATER FOAM DUCT SEALANT NG, OR APPROVED EQUAL ED 4"Ø PVC STUB-UP		PAYCAP RxxDC-6627- (OR APPROVED EQUAL) MODEL# : RxxDC-6627-PF-4 DIMENSIONS LxWxH (mm) : 1 WEIGHT (kg): 32LBS (14.51)
	GRADE	8		29.5" (749)
PVC ADAPTOR -			<b>I</b> _	FRONT
NNA CABLE STU	B-UP DETAIL	24"x36" SCALE: NTS 11"x17" SCALE: NTS	5	SURGE SUPPRES
WARNING TAPE AT I'-0" BELOW GRADE		MATCH EXISTING FINISH SURFACE TRENCH EXISTING GRADE 		
36" MIN.		COMPACT BACKFILL (90%) WITH SATISFACTORY NATIVE OR IMPORTED SOIL 		
PULL ROPE FOR NTENNA CABLE		—(1) 4" PVC CONDUIT FOR ANTENNA CABLE, TYP. (SEE NOTE)		<u>H-FRAM</u> MOUNTI
		24"x36" SCALE: NTS	4	SURGE SUPPRES
NNA CABLE TRE		II"x17" SCALE: NTS	4	SUNGE SUPPRES





# EnerSvs PowerSafe SBS-F - Electrolyte and Lead Weights

Amp-hr		ip-hr			Electrolyte (1.300 SG)					
Battery Rating Model 8hr to 1.75Vpc	Unit Weight		Lead Weight		Volume		Weight		Vo	
	lbs.	kg	lbs.	kg	gal.	liters	lbs.	kg	gal.	
SBS B8F	31	22,7	10.3	15.6	7.07	0.37	1,40	3.81	1.73	0.10
SBS B10F	38	28.2	12.8	17.7	8.0	0.48	1.82	4.95	2.24	0.14
SBS B14F	62	42.0	19.0	30.0	13.61	0.78	2.95	8.04	3.64	0.22
SBS C11F	91	61.6	27.9	43.3	19.6	1.11	4.20	11.44	5.19	0.31
SBS 112F	112	90.4	41.0	66.0	29.93	1.76	6.67	18.15	8.23	0.50
SBS 145F	145	105.0	47.6	72.5	32.9	2.25	8.52	23.18	10.51	0.63
SBS 170F	170	115.7	52.5	81.0	36.73	2.09	7.91	21.54	9_77	0.59
SBS 190F	190	132.3	60.0	94.7	42.9	2.34	8.86	24.11	10.93	0,66

Notes:

1. All values represent typical product characteristics and are subject to change without notice.

2. The nominal AH capacity is based on the 8 hour rate to 1.75 VPC final voltage at 25 °C (nominal temperature).



EnerSys http://www.EnerSys.com 2366 Bernville Road - Reading, PA 19605 1-800-538-3627

# **BATTERY SPECIFICATIONS SHEETS**

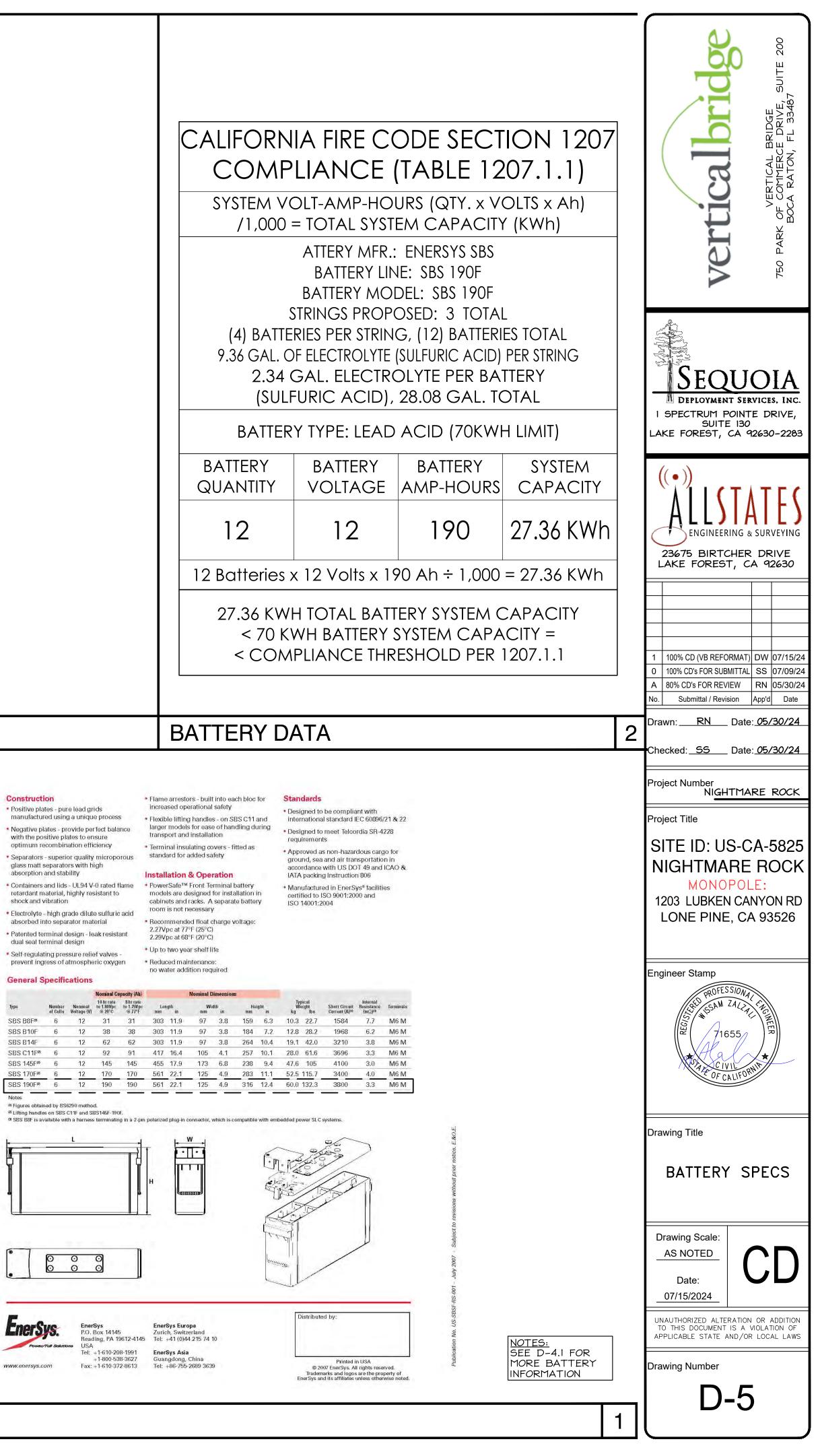
Douvore	Construction
PowerSafe <sup>®</sup>	<ul> <li>Positive plates - pure l manufactured using a</li> </ul>
FRONT TERMINAL	<ul> <li>Negative plates - prov with the positive plate optimum recombination</li> </ul>

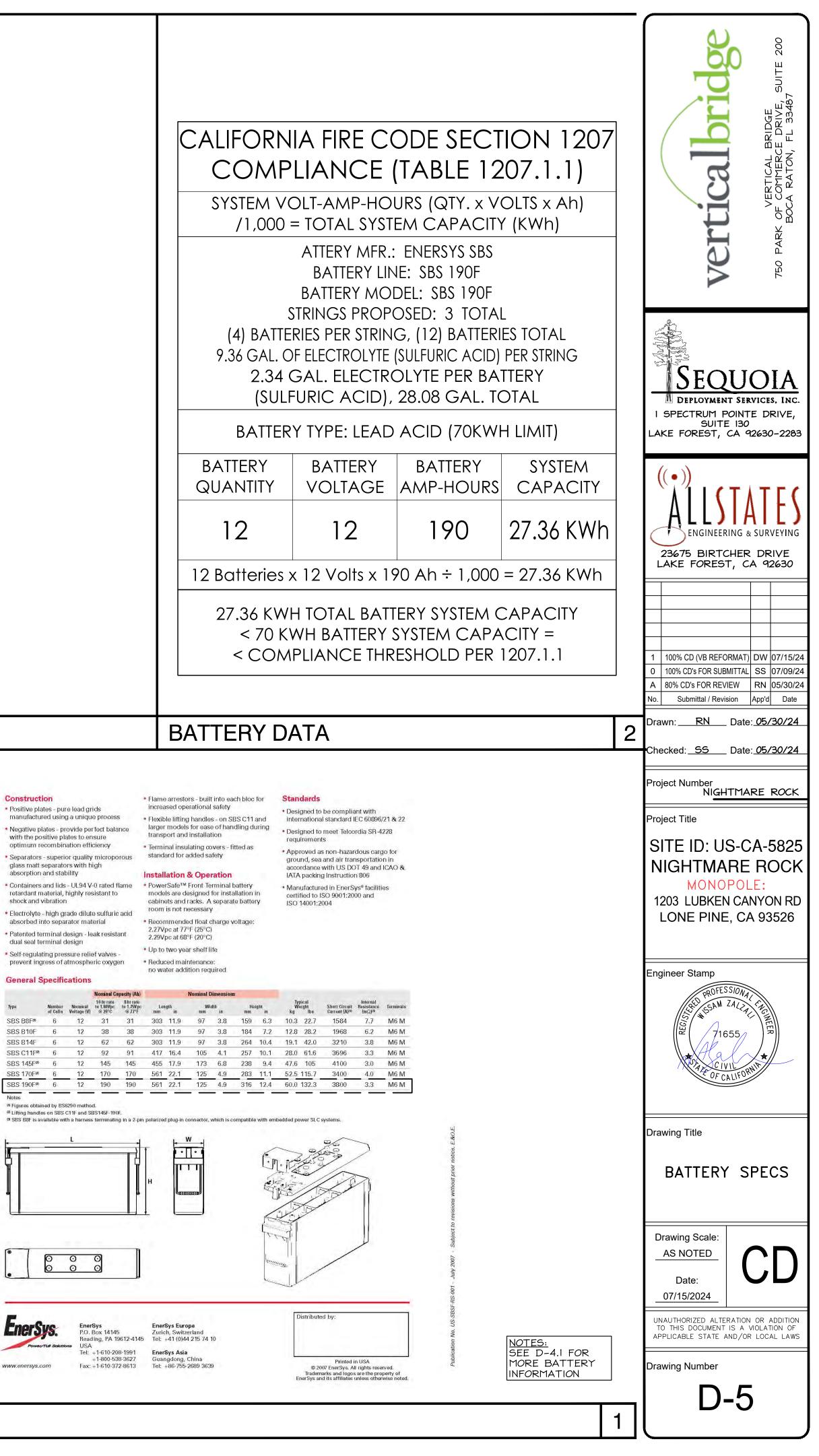
RANGE SUMMARY

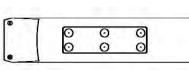
Publication No: US-SBSF-RS-001 - July 2007

# e lead grids a unique process vide perfect balance tes to ensure ation efficiency

- retardant material, highly resistant to
- Patented terminal design leak resistant
- dual seal terminal design Self-regulating pressure relief valves -







The PowerSafe™ SBS Front Terminal battery range utilizes unique and proven technology to provide a superior range of valve regulated batteries with an extended service life in compact and energy dense configurations. PowerSafe SBS batteries are manufactured to the highest international standards and are ideal for reliable use in all wireless and fixed-line communication applications. PowerSafe SBS batteries are also widely used in cable TV, emergency lighting, power generation and offshore applications.

The SBS Front Terminal battery models are smaller and lighter than conventional lead-calcium batteries. Smaller dimensions, front terminal configuration and capacity range from 31Ah to 190Ah, make SBS Front Terminal battery models ideal for a wide range of telecom OSP and small CO applications. The SBS Front Terminal battery models can be installed in cabinets and 19" or 23" racks. For CO applications a six shelf, NEBS certified rack is available. Multiple string configurations allow battery capacity to be matched to the load and increases system reliability.

PowerSafe SBS batteries are designed to cope with elevated temperatures and harsh environments. The advanced thin plate, pure lead technology and unique manufacturing methods, used by EnerSys®, make PowerSafe SBS batteries the choice for long and trouble-free service.

# **Features & Benefits**

- Capacity range: 31Ah 190Ah • 12V monobloc configurations
- Proven long service
- High energy density
- Up to two year shelf life
- Very low ventilation requirement • Wide operating temperature range:
- -40°F (-40°C) to 122°F (50°C)
- Enersys

Power/Full Solutio

Acid (H2SO4

liters

olume Weight

lbs.

1.59

3.36

1.88 7.59 3.44

.40 9.69 4.40

18 4.78

EnerSys. Forwer/Full Solutions	SAF	ETY DATA SHF	CET			Form #: SDS 853027 Revised: AG Supersedes: AF ECO #: 1002195
Chemical Trade Name (as used on label) Cyclon®, Odyssey, Genesis®, SBS, XE®, A		sys, or Large TPPL.			Chemical Family/C Sealed Lead Battery	lassification:
Svnonyms: Sealed Lead Acid Battery, VRLA Battery Manufacturer's Name/Address: EnerSys Energy Products Inc. 617 N. Ridgeview Drive Warrensburg, MO 64093-9301	Canada Corporate Office 3-61 Parr Boulevard Bolton, Ontario L7E 4E3		Environmental, Healt	emergencies, contact E h & Safety Dept. at 66 Response Contact: STIC: 800-424-9300		
II GHS HAZARDS IDENTFICATION	202					
HEALTH			ENVIRONMENTAL		F	HYSICAL
Acute Toxicity (Oral/Dermal/Inhalation) Skin Corrosion/Irritation Eye Damage Reproductive Carcinogenicity (lead compounds) Carcinogenicity (acid mist) Specific Target Organ Toxicity (repeated exposure)	Category 4 Category 1A Category 1 Category 1A Category 1B Category 1A Category 2		Aquatic Chronic 1 Aquatic Acute 1		Explosive C	hemical, Division 1.3
GHS LABEL:	A CONTRACTOR OF THE OWNER					
HEALTH			ENVIRONMENTAL		ł	HYSICAL
					<	
Hazard Statements		Precautionary State				
DANGER!		Wash thoroughly afte	-			
Causes severe skin burns and serious eye d May damage fertility or the unborn child if inhaled. May cause cancer if ingested or inhaled.	ingested or	Wear protective glov Avoid breathing dust Use only outdoors or	smoke when using this pres/protective clothing, ut/fume/gas/mist/vapors/ t/fume/gas/mist/vapors/	eye protection/face pro spray. ea.		
Causes damage to central nervous system, b			l components may caus		urns. Avoid contact w	ith internal acid.
kidneys through prolonged or repeated expo May form explosive air/gas mixture during Explosive, fire, blast, or projection hazard. May cause harm to breast-fed children Harmful if swallowed, inhaled, or contact w	charging.	Obtain special instru Do not handle until a Avoid contact during	piratory system, and ski ctions before use. Il safety precautions ha g pregnancy/while nursi t./sparks/open flames/ho	we been read and unde		
Causes skin irritation, serious eye damage.						
III COMPOSITION	ON INCREMENT					
III. COMPOSITION/INFORMATION	ON INGREDIENTS					
Components		CAS Number	Approximate % by			
			Weight			
Inorganic Lead Compound: Lead Lead Dioxide Tin		7439-92-1 1309-60-0 7440-31-5	45 - 60 15 - 25 0.1 - 0.2			
Sulfuric Acid Electrolyte (Sulfuric Acid/	Water)	7664-93-9	15 - 20	1		
Case Material:	,		5 - 10	1		
Polypropylene Polystyrene Styrene Acrylonitrile Acrylonitrile Butadiene Styre Styrene Butadiene Polyvinylchloride Polycarbonate, Hard Rubber, Polyphenylene Oxide Polycarbonate/Polyester Allo	Polyethylene	9003-07-0 9003-53-6 9003-54-7 9003-56-9 9003-55-8 9002-86-2 9002-88-4 25134-01-4 -				
Other: Absorbent Glass Mat		-	1 - 2			Page 1

EnerSys. safety data sheet	Form #: 5 Revised: Supersed	
Fower/Full Solutions	ECO #:	1002195
Lead Components: May cause eye irritation. ffects of Overexposure - Acute:		
<u>Sulfuric Acidi</u> : Severe skin irritation, damage to cornea, upper respiratory irritation. <u>Lead Compounds</u> : Symptoms of toxicity include headache, fatigue, abdominal pain, loss of appetite, muscle aches and weakness, sleep disturbances and irritability.		
ffects of Overexposure - Chronic:		
Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat and bronchial tubes. Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abno conduction velocities in persons with blood lead levels of 50mcg/100 ml or higher. Heavy lead exposure may result in central nervous system d encephalopathy and damage to the blood-forming (hematopoietic) tissues.		
<ul> <li><u>arcinogenicity:</u> <u>Sulfuric Acid:</u> The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a Group 1 carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of product, such as overcharging, may result in the generation of sulfuric acid mist.         <u>Lead Compounds:</u> Lead is listed as a Group 2A carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910         Appendix F, this is approximately equivalent to GHS Category 1B. Proof of carcinogenicity in humans is lacking at present.     </li> </ul>	the	
Iedical Conditions Generally Aggravated by Exposure: Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravat diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.	ate	
cute Toxicity:		
halation LD50: <u>lectrolyte</u> : LC50 rat: 375 mg/m3; LC50: guinea pig: 510 mg/m3 <u>lemental Lead:</u> Acute Toxicity Point Estimate = 4500 ppmV (based on lead bullion)		
bral LD50: lectrolyte: rat: 2140 mg/kg lemental Lead: Acute Toxicity Estimate (ATE) = 500 mg/kg body weight (based on lead bullion)		
dditional Health Data: All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving worksite. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated are never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated children and their environment.	of food, as and	
The 19 <sup>th</sup> Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction. Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.		
II. ECOLOGICAL INFORMATION avironmental Fate:		
Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of metallic lead between ecological compartments Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain. Most studies include lead compounds and not elemental lead.	s is slow.	
invironmental Toxicity:		
Sulfuric acid:       24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L         96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L		
Lead: 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion		
dditional Information:		
<ul> <li>No known effects on stratospheric ozone depletion.</li> <li>Volatile organic compounds: 0% (by Volume)</li> </ul>		
· Water Endangering Class (WGK): NA		
III. DISPOSAL CONSIDERATIONS (UNITED STATES)		
pent batteries: Send to secondary lead smelter for recycling. Spent lead-acid batteries are not regulated as hazardous waste when the requirements of		
0 CFR Section 266.80 are met. This should be managed in accordance with approved local, state and federal requirements. Consult state environmental		
gency and/or federal EPA.		
lectrolyte: lace neutralized slurry into sealed containers and handle as applicable with state and federal regulations. Large water-diluted spills, after eutralization and testing, should be managed in accordance with approved local, state and federal requirements. Consult state environmental reprovement of the federal EPA		
gency and/or federal EPA. ollowing local, State/Provincial, and Federal/National regulations applicable to end-of-life characteristics will be the responsibility of the end-user.		
IV. TRANSPORT INFORMATION		
LS. DOT: Excepted from the hazardous materials regulations (HMR) because the batteries meet the requirements of 49 CFR 173.159(f) and 49 CFR 173.	159a	

	ver/Full Solutions		ETY DATA SHE				Form #: SDS 853027 Revised: AG Supersedes: AF ECO #: 1002195
	-	sulfuric acid electrolyte are the prim ry or cadmium containing products				roducts.	
	ID MEASURES	ry or cadmum containing products	present in batteries man	unactured by Enersys	Energy Products.		
Inhalation:	D MILLIOUTED						
		ove to fresh air immediately. If bre		oxygen. Consult a phy	sician		
	Lead: Remove from	n exposure, gargle, wash nose and li	ps; consult physician.				
с	Sulfuric Acid: Give consult a physician Lead: Consult phys	e large quantities of water; do not in ician immediately.	duce vomiting or aspira	tion into the lungs ma	y occur and can cause	permanent injury or de	ath;
Ι	If symptoms persist	h with large amounts of water for at , seek medical attention. Wash cont liately with soap and water.				ng shoes.	
Eyes:	Sulfuric Acid and L	ead: Flush immediately with large		least 15 minutes while	lifting lids		
	HTING MEASUR	dical attention if eyes have been exp	bosed directly to acid.				
Flash Point: N			Flammable Limits:	LEL = 4.1% (Hydroge	n Gas)	UEL = 74.2% (Hydrog	gen Gas)
		oxide; foam; dry chemical. Avoid b			/		ć
ŀ	heat and causes it to	<u>s:</u> harge, shut off power. Use positive p spatter. Wear acid-resistant clothi series connected batteries may still	ng, gloves, face and eye	protection.			
<u>Unusual Fire a</u> F s	and Explosion Haz Highly flammable h sources of ignition a	zards: ydrogen gas is generated during cha away from batteries. Do not allow r	arging and operation of netallic materials to sim	batteries. To avoid ris	k of fire or explosion,	keep sparks or other	
	batteries. Follow m NTAL RELEASE	anufacturer's instructions for install	ation and service.				
Spill or Leak I		MEAJURES					
r a C	neutralize spilled el allow discharge of u Consult state enviro	al, contain/absorb small spills with of ectrolyte with soda ash, sodium bic inneutralized acid to sewer. Acid m inmental agency and/or federal EPA	arbonate, lime, etc. We ust be managed in accor	ar acid-resistant clothi	ng, boots, gloves, and	face shield. Do not	
Handling:	ING AND STORA	GE					
	d in recycling opera	ations, do not breach the casing or e	mpty the contents of the	battery.			
		ectric shock from strings of connect		,			
-	+	en not in use. If battery case is brok		internal components.			
Keep vent caps	s on and cover term	inals to prevent short circuits. Place	e cardboard between lay	ers of stacked automo	tive batteries to avoid	lamage and short circu	its.
Keep away fror	m combustible mate	erials, organic chemicals, reducing s	substances, metals, stror	ng oxidizers and water	. Use banding or strete	ch wrap to secure items	for
shipping.							
also be stored u	under roof for prote	entilated areas with impervious surf ction against adverse weather condi	tions. Separate from in	compatible materials.	Store and handle only		
		ly and spill control. Avoid damage ttery and create a dangerous short-c	-	ay from fire, sparks ar	u neat. Keep away from	n metanic objects white	211
Charging:		the store a dangerous short-c					
	ible risk of electric	shock from charging equipment and	l from strings of series of	connected batteries, w	nether or not being cha	rged. Shut-off power to	)
	e should be ventilate	before detachment of any circuit co ed. Keep battery vent caps in positio					
chargers whene Charging space	eve protection when		on. Prohibit smoking an	d avoid creation of fla	nes and sparks nearby		
chargers whene Charging space Wear face and		n near batteries being charged.	on. Promoti smoking an	d avoid creation of fla	nes and sparks nearby		
chargers whene Charging space Wear face and VIII. EXPOS	URE CONTROLS	n near batteries being charged.	n. Pronibit smoking an	d avoid creation of fla	nes and sparks nearby		
Chargers when Charging space Wear face and VIII. EXPOS Exposure Lim	URE CONTROLS its (mg/m3) Note:	n near batteries being charged. S/PERSONAL PROTECTION N.E.= Not Established					
chargers when Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Com	URE CONTROLS its (mg/m3) Note: S nmon Names)	n near batteries being charged. S/PERSONAL PROTECTION	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL
chargers when Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead	URE CONTROLS its (mg/m3) Note: S nmon Names)	n near batteries being charged. S/PERSONAL PROTECTION N.E.= Not Established					
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead (inorganic)	URE CONTROLS its (mg/m3) Note: S nmon Names)	n near batteries being charged. S/PERSONAL PROTECTION N.E.= Not Established OSHA PEL	ACGIH	US NIOSH	Quebec PEV	Ontario OEL	EU OEL 0.15 (b) N.E
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead (inorganic)	URE CONTROLS its (mg/m3) Note: S nmon Names) Compounds	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05	ACGIH 0.05	US NIOSH 0.05	Quebec PEV 0.05	Ontario OEL 0.05	0.15 (b)
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead (inorganic) Tin Sulfuric Acid E Polypropylene	URE CONTROLS its (mg/m3) Note: S mmon Names) Compounds Electrolyte	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05 2 1 N.E	ACGIH 0.05 2 0.2 N.E	US NIOSH 0.05 2 1 N.E	Quebec PEV 0.05 2 1 N.E	Ontario OEL 0.05 2 0.2 N.E	0.15 (b) N.E 0.05 (c) N.E
chargers whene Charging space Wear face and . VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead (inorganic) Tin Sulfuric Acid E Polypropylene Polystyrene	URE CONTROLS its (mg/m3) Note: S nmon Names) Compounds 3lectrolyte	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05 2 1 N.E N.E N.E	ACGIH 0.05 2 0.2 N.E N.E	US NIOSH 0.05 2 1 N.E N.E	Quebec PEV 0.05 2 1 N.E N.E	Ontario OEL 0.05 2 0.2 N.E N.E	0.15 (b) N.E 0.05 (c) N.E N.E
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim (NGREDIENT: (Chemical/Con Lead and Lead (inorganic) Tin Sulfuric Acid E Polypropylene Polystyrene Styrene Acrylo	URE CONTROLS its (mg/m3) Note: S mon Names) Compounds Electrolyte nitrile	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05 2 1 N.E	ACGIH 0.05 2 0.2 N.E	US NIOSH 0.05 2 1 N.E	Quebec PEV 0.05 2 1 N.E	Ontario OEL 0.05 2 0.2 N.E	0.15 (b) N.E 0.05 (c) N.E
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT: (Chemical/Con Lead and Lead (inorganic) Tin Sulfuric Acid E Polypropylene	URE CONTROLS its (mg/m3) Note: S mon Names) Compounds Electrolyte nitrile	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05 2 1 N.E N.E N.E	ACGIH 0.05 2 0.2 N.E N.E	US NIOSH 0.05 2 1 N.E N.E	Quebec PEV 0.05 2 1 N.E N.E	Ontario OEL 0.05 2 0.2 N.E N.E	0.15 (b) N.E 0.05 (c) N.E N.E
chargers whene Charging space Wear face and VIII. EXPOS Exposure Lim INGREDIENT? (Chemical/Con Lead and Lead (inorganic) Tin Sulfuric Acid E Polypropylene Polystyrene Styrene Acrylo Acrylonitrile B	URE CONTROLS its (mg/m3) Note: S mmon Names) Compounds Electrolyte nitrile utadiene	n near batteries being charged. //PERSONAL PROTECTION N.E.= Not Established OSHA PEL 0.05 2 1 N.E N.E N.E N.E	ACGIH 0.05 2 0.2 N.E N.E N.E	US NIOSH 0.05 2 1 N.E N.E N.E N.E	Quebec PEV 0.05 2 1 N.E N.E N.E	Ontario OEL 0.05 2 0.2 N.E N.E N.E	0.15 (b) N.E 0.05 (c) N.E N.E N.E

Ener	Sys. vec/rull satutions	SA	FETY DATA SHE	CET			Form #: SDS 853027 Revised: AG Supersedes: AF ECO #: 1002195
Polycarbonate, Rubber, Polyet	·	N.E	N.E	N.E	N.E	N.E	N.E
Polyphenylene		N.E	N.E	N.E	N.E	N.E	N.E
Polycarbonate/ Rubber, Polyet	Polyester Alloy	N.E	NE	NE	NE	NE	N.E
Absorbent Gla		N.E	N.E N.E	N.E N.E	N.E N.E	N.E N.E	N.E N.E
NOTES: b) As inhalabl c) Thoracic fr	le aerosol						
) ] ] Respiratory P ]	Handle batteries cautiou: clothing, eye and face pr positive and negative ter <b>rotection (NIOSH/MSI</b> None required under nor	ventilated area. If mechanic sly to avoid spills. Make cer otection when filling, chargi minals of the batteries. Char <u><b>A approved</b></u> : mal conditions. When conce	tain vent caps are on sec ng or handling batteries. ge the batteries in areas	urely. Avoid contact w Do not allow metallic r with adequate ventilation	vith internal componer materials to simultane on. General dilution ve	ously contact both the entilation is acceptable	e le.
i Skin Protectio	respiratory protection.						
Eye Protection		d, use rubber or plastic acid-	resistant gloves with elb	ow-length gauntlet, aci	d-resistant apron, clot	hing and boots	
]	If battery case is damage	d, use chemical goggles or f	ace shield.				
Other Protect		mergency conditions, wear a	cid-resistant clothing on	d boots			
IX. PHYSICA	AL AND CHEMICAL F	PROPERTIES	ere-resistant crotning an				
	sted Below are for Elect Boiling Point:	trolyte:	203 - 240° F	Specific Gravity (H2	20 = 1:	1.215 to 1.350	
	Melting Point:		N/A	Vapor Pressure (mn		10	
	Solubility in Water:	tril Acostata = 1)	100%	Vapor Density (AIR		Greater than 1	
	Evaporation Rate: (Bu		Less than 1 H: ~1 to 2	% Volatile by Weight Flash Point:	ш.	N/A Below room tempe	rature (as hydrogen gas)
]	LEL (Lower Explosive		4.1% (Hydrogen)	UEL (Upper Explosi	ive Limit)	74.2% (Hydrogen)	
	Appearance and Odor:		Manufactured article				
V STADIL	TY AND REACTIVITY	K	Electrolyte is a clear	liquid with a sharp, per	netrating, pungent odo	r.	
This product i Conditions To ncompatibili	is stable under normal Avoid: Prolonged over ty: (Materials to avoid Sulfuric Acid: Contact v metals, sulfur trioxide ga hydrogen gas.	vith combustibles and organi s, strong oxidizers and wate	ic materials may cause fi r. Contact with metals n	nay produce toxic sulfur	r dioxide fumes and m	ay release flammabl	e
This product i Conditions To Incompatibili Hazardous De Hazardous De NI. TOXICOI Routes of Ent	is stable under normal D Avoid: Prolonged over ty: (Materials to avoid Sulfurie Acid: Contact v metals, sulfur trioxide ga hydrogen gas. Lead Compounds: Avoi and reducing agents. ecomposition Products: Sulfuric Acid: Sulfur tri- Lead Compounds: High hydrogen may generate b <u>Dymerization:</u> Will not occur LOGICAL INFORMA <u>TV:</u> Sulfuric Acid: Harmful Lead Compounds: Haza or fume. The presence of Sulfuric Acid: Breathing	conditions at ambient temp reharge; sources of ignition with combustibles and organi is, strong oxidizers and wate d contact with strong acids, l oxide, carbon monoxide, sul temperatures likely to produ- tighly toxic arsine gas.	ic materials may cause fi r. Contact with metals n bases, halides, halogenat furic acid mist, sulfur di cce toxic metal fume, vap ly when product is heate rate highly toxic arsine p ists may cause severe re	hay produce toxic sulfur es, potassium nitrate, p oxide, and hydrogen sul oor, or dust; contact wit d, oxidized or otherwis tas.	r dioxide fumes and n ermanganate, peroxid lfide. h strong acid or base o	ay release flammabl	e i it
Conditions To Incompatibili In	is stable under normal D Avoid: Prolonged over ty: (Materials to avoid Sulfuric Acid: Contact v metals, sulfur trioxide ga hydrogen gas. Lead Compounds: Avoi and reducing agents. scomposition Products: Sulfuric Acid: Sulfur tri Lead Compounds: High hydrogen may generate F blymerization: Will not occur LOGICAL INFORMA' FY: Sulfuric Acid: Harmful Lead Compounds: Haza or fume. The presence of Sulfuric Acid: Breathing Lead Compounds: Inhal Sulfuric Acid: May caus	conditions at ambient temp reharge; sources of ignition with combustibles and organi- is, strong oxidizers and wate d contact with strong acids, i d contact with strong acids, i emperatures likely to produ- lighly toxic arsine gas. FION by all routes of entry. rdous exposure can occur on f nascent hydrogen may gene g of sulfuric acid vapors or m ation of lead dust or fumes n we severe irritation of mouth, e ingestion may cause abdon	ic materials may cause fi r. Contact with metals n bases, halides, halogenat furic acid mist, sulfur di icce toxic metal fume, vap ly when product is heate rate highly toxic arsine p uists may cause severe re nay cause irritation of up throat, esophagus and st	hay produce toxic sulfur es, potassium nitrate, p oxide, and hydrogen su oor, or dust; contact wit d, oxidized or otherwis gas. spiratory irritation. per respiratory tract and omach.	r dioxide fumes and m ermanganate, peroxid lfide. h strong acid or base of se processed or damag d lungs.	eay release flammables, nascent hydroger or presence of nascent ed to create dust, va	e it nt por
This product i Conditions To Incompatibili Hazardous De Hazardous Po XI. TOXICOI Routes of Ent Inhalation: Ingestion: Skin Contact:	is stable under normal b Avoid: Prolonged over ty: (Materials to avoid Sulfuric Acid: Contact v metals, sulfur trioxide ga hydrogen gas. Lead Compounds: Avoi and reducing agents. ecomposition Products: Sulfuric Acid: Sulfur tri- Lead Compounds: High hydrogen may generate b bytmerization: Will not occur LOGICAL INFORMAT TY: Sulfuric Acid: Harmful Lead Compounds: Haza or fume. The presence of Sulfuric Acid: Breathing Lead Compounds: Inhal Sulfuric Acid: May caus Lead Compounds: Acut toxicity and must be treat. Sulfuric Acid: Severe in	conditions at ambient temp reharge; sources of ignition with combustibles and organi- is, strong oxidizers and wate d contact with strong acids, i d contact with strong acids, i emperatures likely to produ- lighly toxic arsine gas. FION by all routes of entry. rdous exposure can occur on f nascent hydrogen may gene g of sulfuric acid vapors or m ation of lead dust or fumes n we severe irritation of mouth, e ingestion may cause abdon	ic materials may cause fi r. Contact with metals n bases, halides, halogenat furic acid mist, sulfur di cce toxic metal fume, vap ly when product is heate rate highly toxic arsine <i>g</i> lists may cause irritation of up throat, esophagus and st ninal pain, nausea, vomit	hay produce toxic sulfur es, potassium nitrate, p oxide, and hydrogen su oor, or dust; contact wit d, oxidized or otherwis gas. spiratory irritation. per respiratory tract and omach.	r dioxide fumes and m ermanganate, peroxid lfide. h strong acid or base of se processed or damag d lungs.	eay release flammables, nascent hydroger or presence of nascent ed to create dust, va	e it nt por
This product i Conditions To Incompatibili Hazardous De Hazardous De Hazardous Po XI. TOXICOI Routes of Ent Ingestion: Skin Contact:	is stable under normal D Avoid: Prolonged over ty: (Materials to avoid Sulfuric Acid: Contact v metals, sulfur trioxide ga hydrogen gas. Lead Compounds: Avoi and reducing agents. composition Products: Sulfuric Acid: Sulfur tri- Lead Compounds: High hydrogen may generate P Jumerization: Will not occur LOGICAL INFORMA TY: Sulfuric Acid: Harmful 1 Lead Compounds: Haza or fume. The presence of Sulfuric Acid: Breathing Lead Compounds: Inhal Sulfuric Acid: May caus Lead Compounds: Acut toxicity and must be trea Sulfuric Acid: Severe in Lead Compounds: Not a Sulfuric Acid: Severe in	conditions at ambient temp reharge; sources of ignition with combustibles and organi is, strong oxidizers and wate d contact with strong acids, I d contact with strong acids for the strong acids acids acids of sulfuric acid vapors or m ation of lead dust or fumes n d contact with strong acids acids acids and a strong acids acids ted by a physician. d contact with strong acids acids fitation, burns and ulceration d bsorbed through the skin.	ic materials may cause fi r. Contact with metals n bases, halides, halogenat furic acid mist, sulfur di icce toxic metal fume, vag ly when product is heater rate highly toxic arsine g nists may cause severe re nay cause irritation of up throat, esophagus and st ninal pain, nausea, vomit	aay produce toxic sulfu es, potassium nitrate, p oxide, and hydrogen su oor, or dust; contact wit d, oxidized or otherwis gas. spiratory irritation. per respiratory tract and omach. ing, diarrhea and sever	r dioxide fumes and m ermanganate, peroxid lfide. h strong acid or base of se processed or damag d lungs.	eay release flammables, nascent hydroger or presence of nascent ed to create dust, va	e it nt por

		SAF	ETY DATA SHEET		Form #: SDS 853027 Revised: AG Supersedes: AF ECO #: 1002195
	Battery terminals must be pro	otected against short circuit	8.		ECO #. 1002193
IATA Dang	erous Goods Regulations DG Excepted from the dangerous	R: s goods regulations because ortation Association (IATA)	the batteries meet the req Dangerous goods Regula	uirements of Packing Instruction 872 and Special Provisions A tions and International Civil Aviation Organization (ICAO) Te	
-	The words " NOT RESTRIC	TED" , SPECIAL PROVISI	ON A67" must be provide	ed when the air waybill is issued.	
IMDG:				atteries meet the requirements of Special Provision 238 of the be protected against short circuits.	
Requireme	nts for Safe Shipping and Har		/	1 0	
	-	ABLE" during shipping. F	-	and cause a fire if not insulated during shipping. Cyclon produ regulations. See section IX of this sheet and CFR 49 Parts 17	
<u>Requireme</u>	-	ble inert material must be u		nal of each cell unless cells are shipping in the original packag 3 by contacting EnerSys Customer Service at 1-800-964-2837.	ing
<u>Requireme</u>	nts for Shipping Cyclon Produce Assembled batteries must have durable inert material to prev	ve short circuit protection d	luring shipping. Exposed	terminals, connectors, or lead wires must be insulated with a	
	LATORY INFORMATION				
UNITED ST EPA SARA					
	EPCRA Extremely Hazardous Sulfuric acid is a listed "Extr EPCRA Section 302 notificat	emely Hazardous Substance tion is required if 1000 lbs	or more of sulfuric acid is	Threshold Planning Quantity (TPQ) of 1,000 lbs. present at one site (40 CFR 370.10). For more information cor rour EnerSys representative for additional information	nsult
Section 304	CERCLA Hazardous Substance Reportable Quantity (RQ) for ERCPA (Emergency Plannin	r spilled 100% sulfuric acid	· •	und) and state and local reportable quantities for spilled sulfuric acid ma	U 1/0 <del>1</del> /
Section 311/	/312 Hazard Categorization:	o reporting is required for r	non-automotive batteries i	f sulfuric acid is present in quantities of 500 lbs or more and/o	
Supplier No.	toxic chemical present in suc determining the amount of re or the person produced the ar <u>stification</u> :	ch article when determining elease to be reported under { rticle. However, this exemp	whether an applicable thr § 372.30. This exemption tion applies only to the qu	overed facility, a person is not required to consider the quantit eshold has been met under § 372.25, § 372.27, or § 372.28 or applies whether the person received the article from another per antity of the toxic chemical present in the article.	erson
	If you are a manufacturing fa	cility under SIC codes 20 th	hrough 39, the following i	nformation is provided to enable you to complete the required	reports:
		Toxic Chemical Lead	<u>CAS Number</u> 7439-92-1	Approximate % by Wt. 45 - 60	
	Sul	furic Acid Electrolyte	7664-93-9	15 - 20	
	(S	Sulfuric Acid/Water) Tin	7440-31-5	0.1 - 0.2	
	See 40 CFR Part 370 for mor If you distribute this product of each calendar year.		SIC Codes 20 through 39,	this information must be provided with the first shipment	
	The Section 313 supplier not	ification requirement does	not apply to batteries, whi	ch are "consumer products".	
TSCA:	TSCA Section 8b – Inventory	y Status: All chemicals corr	prising this product are ei	ther exempt or listed on the TSCA Inventory.	
	TSCA Section 12b (40 CFR 2 context of individual section	Dent 707 (0(b)) No motion of	of export will be required f	or articles, except PCB articles, unless the Agency so requires	in the
	content of marriadar section		<b>I I I I I I I I</b>		
RCRA:		a 5, 6, or 7 actions. art 707.20): No import cert	tification required (EPA 3	05-B-99-001, June 1999, Introduction to the	

miic	1970.	SAFETY DATA SHEET
	Fower/Full Solutions	
		g ozone depletion in the atmosphere due to emissions of CFC's and other ozone
		ass I substances. Pursuant to Section 611of the Clean Air Act Amendments (CA
		established a policy to eliminate the use of Class I ODC's prior to the May 15, 1
SIAIE RI	EGULATIONS (US): Proposition 65:	
		cessories contain lead and lead compounds, chemicals known to the State of Ca
	0 11	ntain other chemicals known to the State of California to cause cancer. Wash ha
INTERNA	TIONAL REGULATIONS:	
		ntrolled Product Regulations (CPR) 24(1) and 24(2).
	Distribution into the EU to follow applicable Dir	ectives to the Use, Import/Export of the product as-sold.
		C 1907/2006), which entered into force on 1 <sup>st</sup> of June 2007 in the European Unic stances of Very High Concern (SVHC) in articles (lead batteries) in concentratic
	weight.	
		nemical Agency (ECHA) updated the Candidate List with the inclusion of Lead A s an SVHC applies to all of EnerSys Lead based battery products regardless of the
	(Flooded, Gel, AGM, etc).	
XVI. OTH	HER INFORMATION	
Revised:	4/7/2020	
NEPA Haz	zard Rating for Sulfuric Acid:	
	Flammability (Red) = $0$	Reactivity (Yellow) $= 2$
	Health (Blue) $= 3$	Sulfuric acid is water-reactive if concentrated.
DISCLAIN	MER	
This Safety	Data Sheet is created by the manufacturer to compl	y with the requirements of 29 CFR 1910.1200. To the extent allowed by law,
		y third party, including users of this product, including, but not limited to, conse
other dama	ges, arising out of the use of, or reliance on, this Saf	ety Data Sheet.

	100 //.	1002195	
and other ozone depleting			
Amendments (CAAA)			
to the May 15, 1993 deadline.			
			_
o the State of California to cause			
cancer. Wash hands after handlin	g.		
	-		
e European Union, requires that			
s) in concentration greater than 0.	1% by		
, o			
clusion of Lead Metal			
ts regardless of the design			
5 5			

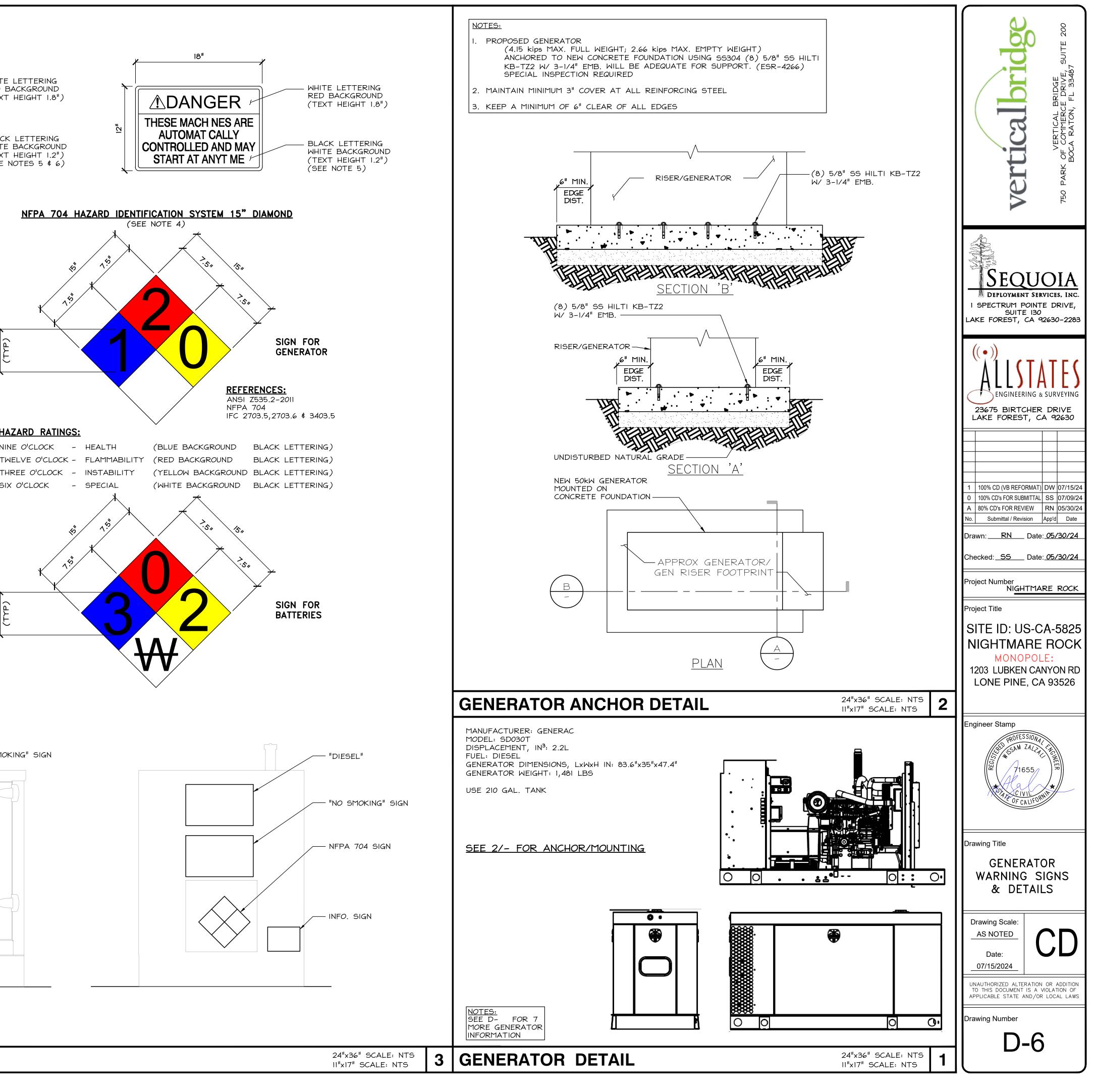
Page 6

llowed by law,	
limited to, consequential or	

	Vertical Bridge Vertical Bridge T50 Park of commerce DRIVE, SUITE 200 BOCA RATON, FL 33487
	DEPLOYMENT SERVICES, INC. I SPECTRUM POINTE DRIVE, SUITE 130 LAKE FOREST, CA 92630-2283
	((•)) ALLSTATES ENGINEERING & SURVEYING 23675 BIRTCHER DRIVE LAKE FOREST, CA 92630
	Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: center;"/Image: style="text-align: center;"/>Image: style="text-align: center;"/>Image: style="text-align: center;"/>Image: style="text-align: center;"////////////////////////////////////
	Checked: <u>S</u> Date: <u>05/30/24</u> Project Number NIGHTMARE ROCK Project Title SITE ID: US-CA-5825
	NIGHTMARE ROCK MONOPOLE: 1203 LUBKEN CANYON RD LONE PINE, CA 93526 Engineer Stamp
	PROFESSIONAL CONTROL OF CALIFORNIA TIG55
	Drawing Title BATTERY INFORMATION Drawing Scale: AS NOTED
	Date: 07/15/2024 UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF APPLICABLE STATE AND/OR LOCAL LAWS Drawing Number
ר	D-5.1

32"	
WHITE LETTERING RED BACKGROUND (SEE NOTES 2 \$ 6)	LIQUID
32"	
NO SMOKING	
WHITE LETTERING RED BACKGROUND (SEE NOTES 2 \$ 6)	
19"	
DIESEL	
GREEN LETTERING WHITE BACKGROUND	
(SEE NOTES 2 ¢ 6)	
NOTES: 1. SIGNS MUST BE MADE OF DURABLE MATERIAL. 2. LETTERS SHALL NOT BE LESS THAN 3 INCHES (76.2MM) MINIMUM IN HEIGHT AND 1/2 INCH	
(12.7MM) IN STROKE UNLESS NOTED OTHERWISE. 3. SIGNS SHALL NOT BE OBSCURED OR REMOVED AND SHALL BE AS A PRIMARY LANGUAGE. 4. HAZARD IDENTIFICATION SIGN TO BE PLACED ON	
GENERATOR / FUEL TANK PER NFPA 704. 5. DIMENSIONS OF DANGER SIGN IS RECOMMENDED SIZE 6. APPLY SIGN/LABEL (STICKER) TO TANK	
NFPA 704 SIGN	
NFPA 704 SIGN	
VERIZON GENERATOR	
VERIZON GENERATOR	

**GENERATOR WARNING SIGNS** 

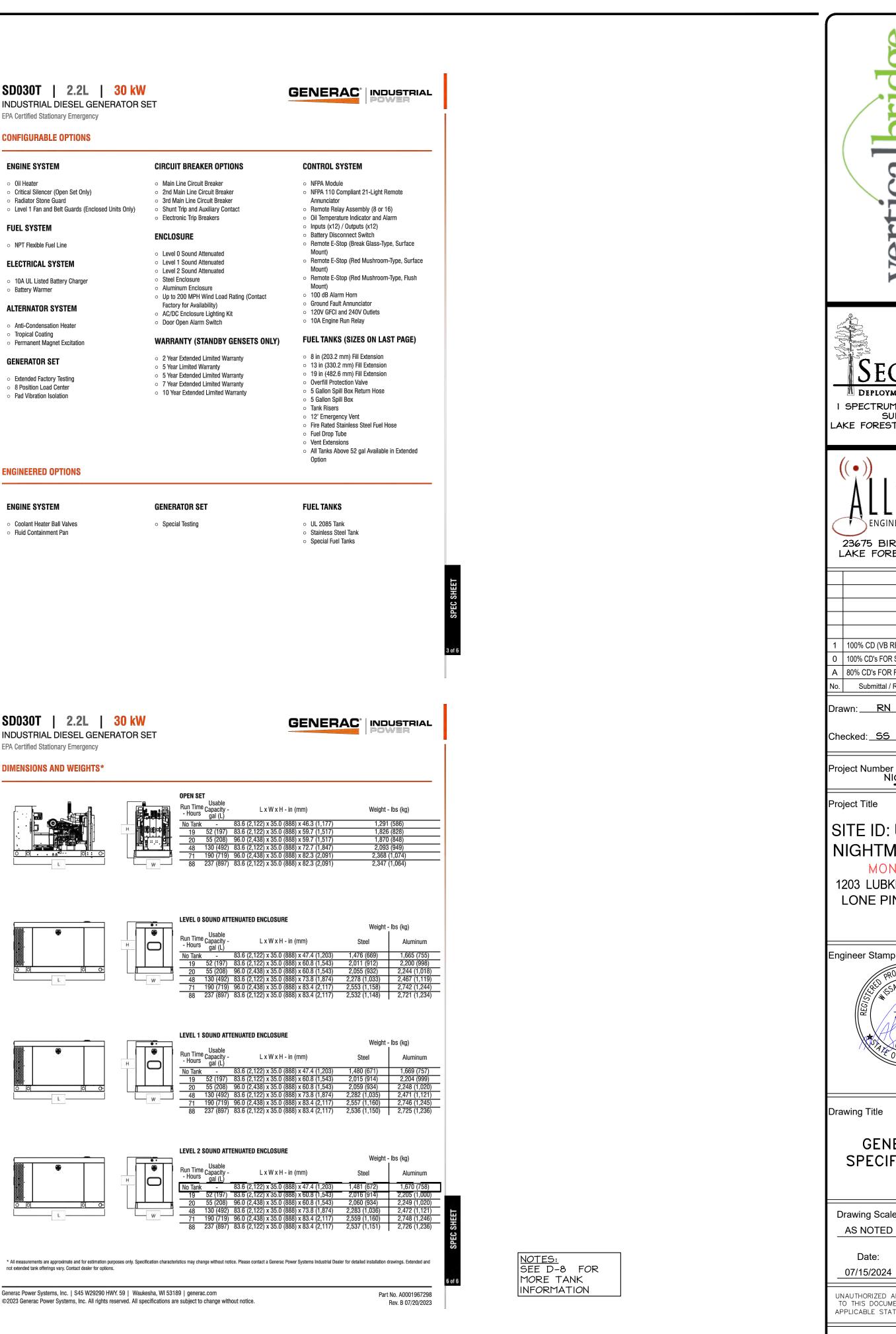


SD030T   2.2L INDUSTRIAL DIESEL EPA Certified Stationary Emerge	GENERATOR SET	GE	
<b>Standby Power Rating</b> 30 kW, 38 kVA, 60 Hz			
HUBERDO Vasenetid II the UEA uning domestic and foreign parts			nage used for illustration purposes o
Codes and Stand	ards	Powering Ahead	
tions. Contact factory for		superior manufacturing. Generac ensures superior	has provided innovative design and quality by designing and manufacturi ponents, including alternators, enclos
	200, UL6200, UL1236, UL489 C22.2, ULC S601	and base tanks, control sy Generac gensets utilize a v and arrangements, allowin	stems and communications softwar vide variety of options, configuration g us to meet the standby power nee
	522.2, OLC 5601	practically every applicatio Generac searched globally power our generators. We	n. to ensure the most reliable engines choose only engines that have alrea
	J1349	been proven in heavy-duty conditions.	industrial applications under advers
	37, 70, 99, 110	continues after their gener	ator purchase.
nec® NEC	700, 701, 702, 708		
AB1	A ICS10, MG1, 250, ICS6, C62.41		
AB1	C62.41 . <b>30 kW</b>	GE	
AB1	C62.41	GE	
AB1 ANSI ANSI ANSI ANSI SD030T   2.21 INDUSTRIAL DIESEL APPLICATION AND ENGIN ENGINE SPECIFICATIONS	C62.41	Cooling System	POWER
AB1 CONSISTING ANSI ANSI SD030T   2.2L INDUSTRIAL DIESEL INDUSTRIAL DIESEL EPA Certified Stationary Emerge APPLICATION AND ENGIN ENGINE SPECIFICATIONS General Make	C62.41 <b>30 kW</b> GENERATOR SET ancy VEERING DATA	Cooling System Cooling System Type Fan Type Fan Speed - RPM	Closed Recovery Pusher 1,980
AB1 AB1 AD2 AD3 AD3 AD3 AD3 AD3 AD3 AD3 AD3	C62.41 C62.41	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System	Closed Recovery Pusher 1,980 18.0 (457.2)
AB1 AD5 AD5 AD5 AD5 AD5 AD5 AD5 AD5	C62.41 <b>30 kW</b> <b>GENERATOR SET</b> ancy <b>VEERING DATA</b> Perkins Stationary Emergency See Emission Data Sheet 4 In-line 135 (2.22) 3.3 (84) 3.9 (100)	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel System Fuel Specifications Fuel Filtering (Microns)	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5
AB1 AB1 AD5 AD5 AD5 AD5 AD5 AD5 AD5 AD5	C62.41 C62.4 C62.	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Specifications Fuel Pittering (Microns) Fuel Inject Pump Fuel Pump Type Injector Type Fuel Supply Line - in (mm)	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID
AB1 AD5 AD5 AD5 AD5 AD5 AD5 AD5 AD5	C62.41	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Filtering (Microns) Fuel Filtering (Microns) Fuel Inject Pump Fuel Pump Type	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect
AB1 AB1 AB1 AD2 AD2 AD2 AD2 AD2 AD2 AD2 AD2	C62.41 Solution of the second	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Filtering (Microns) Fuel Filtering (Microns) Fuel Pump Type Inject Pump Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Engine Electrical System System Voltage Battery Charger Alternator	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID 0.19 (4.76) ID 12 VDC Standard
AB1 AB1 AD1 AD1 AD1 AD1 AD1 AD1 AD1 AD	C62.41 Solution of the second	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Fittering (Microns) Fuel Fittering (Microns) Fuel Pump Type Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Engine Electrical System System Voltage	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID 0.19 (4.76) ID 12 VDC
AB1 AD5 AD5 AD5 AD5 AD5 AD5 AD5 AD5	C62.41 Solve and the second s	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Specifications Fuel Specifications Fuel Pump Type Injector Type Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Fuel Return Line - in (mm) Engine Electrical System System Voltage Battery Charger Alternator Battery Size Battery Voltage	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID 0.19 (4.76) ID 12 VDC Standard See Battery Index 0161970SBY 12 VDC
AB1 AB1 AD1 AD1 AD1 AD1 AD1 AD1 AD1 AD	C62.41	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Pittering (Microns) Fuel Specifications Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Engine Electrical System System Voltage Battery Charger Alternator Battery Size Battery Voltage Ground Polarity	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID 0.19 (4.76) ID 12 VDC Standard See Battery Index 0161970SBY 12 VDC Negative Synchronous Brushless
AB1 AD5 AD5 AD5 AD5 AD5 AD5 AD5 AD5	C62.41  C62.4  C62	Cooling System Cooling System Type Fan Type Fan Speed - RPM Fan Diameter - in (mm) Fuel System Fuel System Fuel Specifications Fuel Filtering (Microns) Fuel Piltering (Microns) Fuel Inject Pump Fuel Pump Type Injector Type Fuel Supply Line - in (mm) Fuel Return Line - in (mm) Fuel Return Line - in (mm) Engine Electrical System System Voltage Battery Charger Alternator Battery Size Battery Voltage Ground Polarity	Closed Recovery Pusher 1,980 18.0 (457.2) Ultra Low Sulfur Diesel Fuel ASTM 5 Distribution Injection Pump Cassette Indirect 0.31 (7.94) ID 0.19 (4.76) ID 12 VDC Standard See Battery Index 0161970SBY 12 VDC Negative

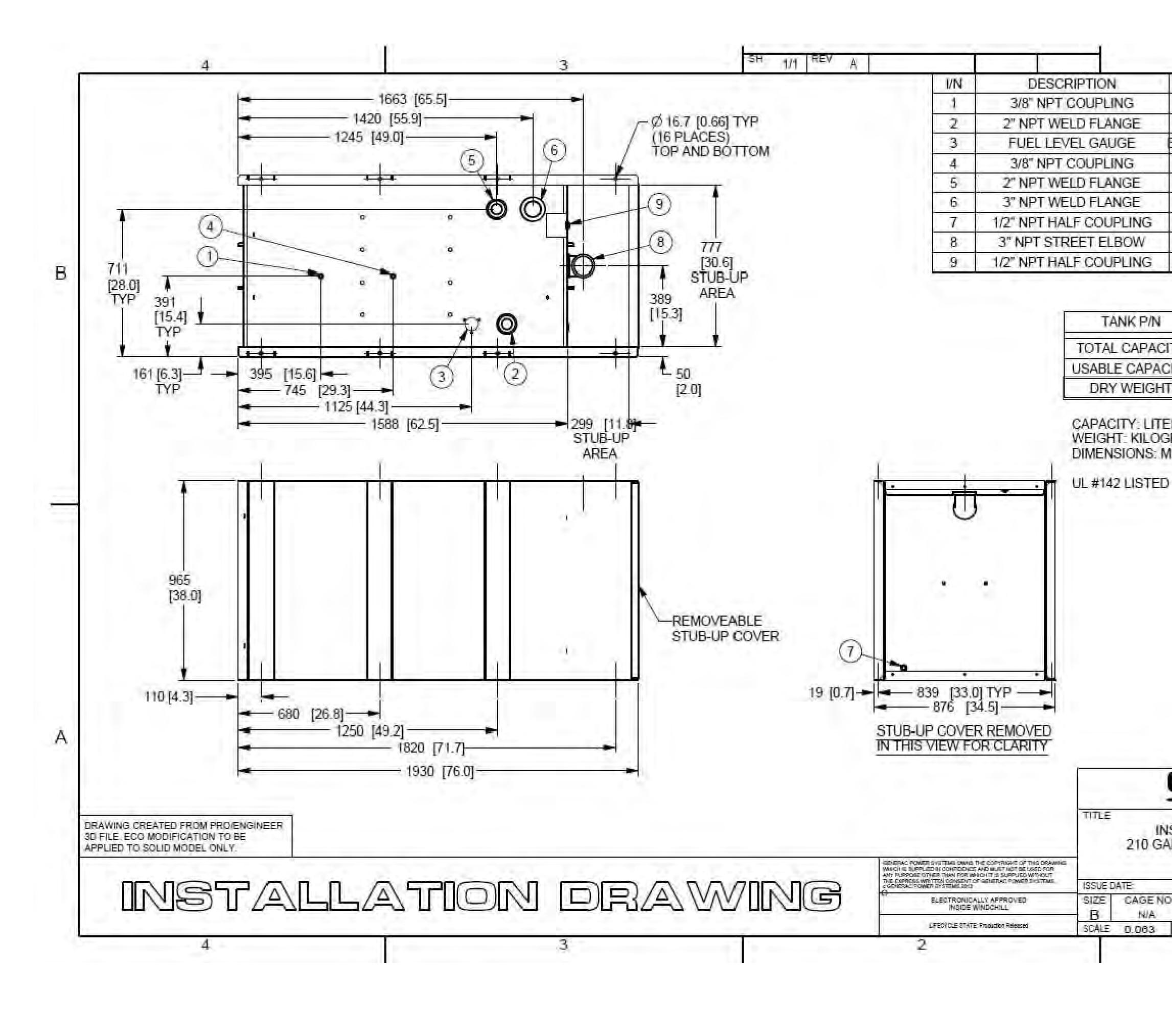
Deration – Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please contact a Generac Power Systems Industrial Dealer for additional details. All performance ratings in accordance with BS5514 and DIN6271 standards. Standby - See Bulletin 0187500SSB

DO3OT   2.2L   30 K DUSTRIAL DIESEL GENERATOF			SD030T   2.2L   30 kW INDUSTRIAL DIESEL GENERATOR S EPA Certified Stationary Emergency		
ANDARD FEATURES			CONFIGURABLE OPTIONS		
NGINE SYSTEM	ELECTRICAL SYSTEM	ENCLOSURE (IF SELECTED)	ENGINE SYSTEM	CIRCUIT BREAKER OPTIONS	CONTROL SYSTEM
Oil Drain System Air Cleaner Level 1 Fan and Belt Guards (Open Set Only) Stainless Steel Flexible Exhaust Connection Factory Filled Oil and Coolant Radiator Duct Adapter (Open Set Only) Critical Silencer (Enclosed Units Only)	<ul> <li>Battery Charging Alternator</li> <li>Battery Cables</li> <li>Battery Tray</li> <li>Rubber-Booted Engine Electrical Connections</li> <li>Solenoid Activated Starter Motor</li> </ul> ALTERNATOR SYSTEM	<ul> <li>Rust-Proof Fasteners with Nylon Washers to Protect Finish</li> <li>High Performance Sound-Absorbing Material (Sound Attenuated Enclosures)</li> <li>Gasketed Doors</li> <li>Upward Facing Discharge Hoods (Radiator and Exhaust)</li> </ul>	<ul> <li>Oil Heater</li> <li>Critical Silencer (Open Set Only)</li> <li>Radiator Stone Guard</li> <li>Level 1 Fan and Belt Guards (Enclosed Units Only)</li> </ul> FUEL SYSTEM	<ul> <li>Main Line Circuit Breaker</li> <li>2nd Main Line Circuit Breaker</li> <li>3rd Main Line Circuit Breaker</li> <li>Shunt Trip and Auxiliary Contact</li> <li>Electronic Trip Breakers</li> </ul>	<ul> <li>NFPA Module</li> <li>NFPA 110 Compliant 21-Light Remote Annunciator</li> <li>Remote Relay Assembly (8 or 16)</li> <li>Oil Temperature Indicator and Alarm</li> <li>Inputs (x12) / Outputs (x12)</li> <li>Battery Disconnect Switch</li> <li>Remote E Stop (Reset Class Type Surface)</li> </ul>
Engine Coolant Heater JEL SYSTEM Fuel Lockoff Solenoid	UL2200 GENprotect <sup>™</sup> Class H Insulation Material     2/3 Pitch     Skewed Stator	<ul> <li>RhinoCoat<sup>™</sup> - Textured Polyester Powder Coat Paint</li> <li>FUEL TANKS (IF SELECTED)</li> </ul>	NPT Flexible Fuel Line     ELECTRICAL SYSTEM     O 10A UL Listed Battery Charger	<ul> <li>Level 0 Sound Attenuated</li> <li>Level 1 Sound Attenuated</li> <li>Level 2 Sound Attenuated</li> <li>Steel Enclosure</li> </ul>	<ul> <li>Remote E-Stop (Break Glass-Type, Surface Mount)</li> <li>Remote E-Stop (Red Mushroom-Type, Surface Mount)</li> <li>Remote E-Stop (Red Mushroom-Type, Flush Mount)</li> </ul>
Primary Fuel Filter OOLING SYSTEM Closed Coolant Recovery System	<ul> <li>Brushless Excitation</li> <li>Sealed Bearings</li> <li>Rotor Dynamically Spin Balanced</li> <li>Amortisseur Winding (3-Phase Only)</li> <li>Full Load Capacity Alternator</li> </ul>	UL 142/ULC S601     Double Wall     Normal and Emergency Vents     Factory Pressure Tested     Rupture Basin Alarm	<ul> <li>Battery Warmer</li> <li>ALTERNATOR SYSTEM</li> <li>Anti-Condensation Heater</li> </ul>	<ul> <li>Aluminum Enclosure</li> <li>Up to 200 MPH Wind Load Rating (Contact Factory for Availability)</li> <li>AC/DC Enclosure Lighting Kit</li> <li>Door Open Alarm Switch</li> </ul>	<ul> <li>100 dB Alarm Horn</li> <li>Ground Fault Annunciator</li> <li>120V GFCI and 240V Outlets</li> <li>10A Engine Run Relay</li> </ul>
UV/Ozone Resistant Hoses Factory-Installed Radiator 50/50 Ethylene Glycol Antifreeze Radiator Drain Extension	Protective Thermal Switch GENERATOR SET	<ul> <li>Fuel Level</li> <li>Check Valve In Supply and Return Lines</li> <li>RhinoCoat<sup>™</sup> - Textured Polyester Powder Coat Paint</li> <li>Stainless Steel Hardware</li> </ul>	Tropical Coating     Permanent Magnet Excitation	• 2 Year Extended Limited Warranty	<b>FUEL TANKS (SIZES ON LAST PAGE)</b> <ul> <li>8 in (203.2 mm) Fill Extension</li> <li>12 in (230.2 mm) Fill Extension</li> </ul>
	<ul> <li>Internal Genset Vibration Isolation</li> <li>Separation of Circuits - High/Low Voltage</li> <li>Separation of Circuits - Multiple Breakers</li> <li>Wrapped Exhaust Piping (Enclosed Units Only)</li> <li>Standard Factory Testing</li> <li>2 Year Limited Warranty (Standby Rated Units)</li> <li>Silencer Mounted in the Discharge Hood (Enclosed Units Only)</li> </ul>	Staniess Steel Haroware	<ul> <li>Extended Factory Testing</li> <li>8 Position Load Center</li> <li>Pad Vibration Isolation</li> </ul>	<ul> <li>5 Year Limited Warranty</li> <li>5 Year Extended Limited Warranty</li> <li>7 Year Extended Limited Warranty</li> <li>10 Year Extended Limited Warranty</li> </ul>	<ul> <li>13 in (330.2 mm) Fill Extension</li> <li>19 in (482.6 mm) Fill Extension</li> <li>Overfill Protection Valve</li> <li>5 Gallon Spill Box Return Hose</li> <li>5 Gallon Spill Box</li> <li>Tank Risers</li> <li>12' Emergency Vent</li> <li>Fire Rated Stainless Steel Fuel Hose</li> <li>Fuel Drop Tube</li> <li>Mat Entergence</li> </ul>
CONTROL SYSTEM	<ul> <li>Not in Auto (Flashing Light)</li> <li>Emergency Stop</li> <li>Modbus® RTU</li> <li>CANbus</li> <li>Full Range Standby Operation</li> </ul>	Line Power/Gen Power     Time     Date     Run Hours     Service Reminders	ENGINEERED OPTIONS		<ul> <li>Vent Extensions</li> <li>All Tanks Above 52 gal Available in Extended Option</li> </ul>
	<ul> <li>Power Factor</li> <li>Ruptured Tank Detection</li> <li>Auxiliary Shutdown Switch</li> <li>Remote Communications</li> <li>NFPA110 Module Included (Key Switch, Alarm, EStop)</li> </ul>	<ul> <li>Fault History (Alarm Log)</li> <li>Oil Pressure</li> <li>Oil Temperature Indication and Alarm</li> <li>Output for Fuel Level High/Low Warning</li> <li>Water Temperature</li> <li>Water Level</li> </ul>	<ul> <li>Coolant Heater Ball Valves</li> <li>Fluid Containment Pan</li> </ul>	• Special Testing	<ul> <li>FUEL TANKS</li> <li>UL 2085 Tank</li> <li>Stainless Steel Tank</li> <li>Special Fuel Tanks</li> </ul>
Power Zone <sup>®</sup> 410 Controller	<ul> <li>I<sup>2</sup>T Function for Full Generator Protection (Contact Factory)</li> </ul>	Fuel Pressure/Level     Engine Speed			
Features Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch	<ul> <li>Full System Status Display</li> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase Amps</li> <li>kW</li> </ul>	<ul> <li>Battery Voltage</li> <li>Alternator Frequency</li> </ul> Alarms and Warnings <ul> <li>Common Alarm Output</li> <li>Audible Alarm and Silence</li> </ul> 2 of 6			
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch	<ul> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase Amps</li> <li>kW</li> </ul>	<ul> <li>Battery Voltage</li> <li>Alternator Frequency</li> </ul> Alarms and Warnings <ul> <li>Common Alarm Output</li> <li>Audible Alarm and Silence</li> </ul>	SD030T   2.2L   30 kW INDUSTRIAL DIESEL GENERATOR S EPA Certified Stationary Emergency DIMENSIONS AND WEIGHTS*		
<ul> <li>Programmable Auto Crank</li> <li>Selectable Low Speed Exercise</li> <li>RS-232 x2</li> <li>RS-485 x2</li> <li>All-Phase Sensing Digital Voltage Regulator</li> <li>On/Off/Manual Switch</li> </ul>	<ul> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase Amps</li> <li>kW</li> </ul>	<ul> <li>Battery Voltage</li> <li>Alternator Frequency</li> </ul> <b>Alarms and Warnings</b> <ul> <li>Common Alarm Output</li> <li>Audible Alarm and Silence</li> </ul> 2 of 6	<b>SD030T   2.2L   30 kW</b> INDUSTRIAL DIESEL GENERATOR S EPA Certified Stationary Emergency	SET Open set	POWER
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch DO300T   2.2L   30 k IDUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA POWER RATINGS Single-F Three-P Three-P Three-P	<ul> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase Amps</li> <li>kW</li> </ul>	<ul> <li>Battery Voltage</li> <li>Alternator Frequency</li> </ul> <b>Alarms and Warnings</b> <ul> <li>Common Alarm Output</li> <li>Audible Alarm and Silence</li> </ul> 2 of 6	SD030T   2.2L   30 kW INDUSTRIAL DIESEL GENERATOR S EPA Certified Stationary Emergency DIMENSIONS AND WEIGHTS*	OPEN SET           Run Time Capacity - Hours gal (L)         L x W x H           No Tank         -         83.6 (2,122) x 35.0 (19)           19         52 (197)         83.6 (2,122) x 35.0 (19)           20         55 (208)         96.0 (2,438) x 35.0 (19)           48         130 (492)         83.6 (2,122) x 35.0 (19)           71         190 (719)         96.0 (2,438) x 35.0 (19)	- in (mm) Weight - lbs (kg) (888) x 46.3 (1,177) 1,291 (586) (888) x 59.7 (1,517) 1,826 (828) (888) x 59.7 (1,517) 1,870 (848) (888) x 72.7 (1,847) 2,093 (949) (888) x 82.3 (2,091) 2,368 (1,074)
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch DO3OT   2.2L   30 k IDUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA POWER RATINGS POWER RATINGS Single-F Three-P Three-P Three-P	<ul> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase Amps</li> <li>kW</li> </ul> W Standby Phase 120/240 VAC @1.0pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 277/480 VAC @0.8pf 30 kW Am hase 346/600 VAC @0.8pf 30 kW Am SkVA vs. Voltage Dip 30 kW Am 277/480 VAC 30 30% 208/240 VAC 30 35%	<ul> <li>Battery Voltage</li> <li>Alternator Frequency</li> </ul> 2 of 5 2 of 5 3 o	SD030T   2.2L   30 kW INDUSTRIAL DIESEL GENERATOR S EPA Certified Stationary Emergency DIMENSIONS AND WEIGHTS*	OPEN SET           Run Time Capacity - Hours gal (L)         L x W x H           No Tank         -         83.6 (2,122) x 35.0 (19)           19         52 (197)         83.6 (2,122) x 35.0 (19)           20         55 (208)         96.0 (2,438) x 35.0 (19)           48         130 (492)         83.6 (2,122) x 35.0 (19)	- in (mm) Weight - lbs (kg) (888) x 46.3 (1,177) 1,291 (586) (888) x 59.7 (1,517) 1,826 (828) (888) x 59.7 (1,517) 1,870 (848) (888) x 72.7 (1,847) 2,093 (949) (888) x 82.3 (2,091) 2,368 (1,074)
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch  DD330T   2.2L   30 k IDUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA  POWER RATINGS  Single-F Three-P	Full System Status Display     Multilingual 128x64 Graphical Display with Heater     Easy Status View LED Screen     3-Phase AC Volts     3-Phase Amps     KW      K      SET <u>Standby     Standby     </u>	Battery Voltage Alternator Frequency <b>Alarms and Warnings</b> • Common Alarm Output • Audible Alarm and Silence <b>CENERAC INDUSTRIAL POWER esel - gph (Lph)</b> ad Standby 1.0 (3.8)	 SD030T 2.2L 30 kW   INDUSTRIAL DIESEL GENERATOR S   EPA Certified Stationary Emergency   DIMENSIONS AND WEIGHTS*	SET         OPEN SET         Run Time Capacity - Hours Capacity - - Hours Capacity	- in (mm) Weight - Ibs (kg) (888) x 46.3 (1,177) 1,291 (586) (888) x 59.7 (1,517) 1,826 (828) (888) x 59.7 (1,517) 1,870 (848) (888) x 59.7 (1,517) 2,093 (949) (888) x 82.3 (2,091) 2,368 (1,074) (888) x 82.3 (2,091) 2,347 (1,064)
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch  DD330T   2.2L   30 k IDUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA  POWER RATINGS  Single-F Three-P Th	Full System Status Display     Multilingual 128x64 Graphical Display with Heater     Easy Status View LED Screen     3-Phase AC Volts     3-Phase Amps     kW       SET       SET       Standby      Phase 120/240 VAC @1.0pf     30 kW     Am hase 120/240 VAC @1.0pf     30 kW     Am hase 120/240 VAC @0.8pf     30 kW     Am hase 120/240 VAC @0.8pf     30 kW     Am hase 346/600 VAC @0.8pf     30 kW     Am hase 120/240 VAC @0.8pf     30 kW     Am hase 346/600 VAC @0.8pf     40 kBB	Battery Voltage Alternator Frequency <b>Jarms and Warnings</b> • Common Alarm Output • Audible Alarm and Silence <b>CENERAC</b> Industry East		OPEN SET           Run Time Capacity - - Hours gal (L)           No Tank         83.6 (2,122) x 35.0 ( 20 55 (208) 96.0 (2,438) x 35.0 ( 20 55 (208) 96.0 (2,438) x 35.0 ( 48 130 (492) 83.6 (2,122) x 35.0 ( 71 190 (719) 96.0 (2,438) x 35.0 ( 88 237 (897) 83.6 (2,122) x 35.0 (           W         LEVEL 0 SOUND ATTENUATED ENCLOSUR Run Time Capacity - - Hours gal (L)           No Tank         -           No Tank         -           Stable         -           No Tank         -	- in (mm) Weight - lbs (kg) (888) x 46.3 (1,177) 1,291 (586) (888) x 59.7 (1,517) 1,826 (828) (888) x 59.7 (1,517) 1,870 (848) (888) x 72.7 (1,847) 2,093 (949) (888) x 82.3 (2,091) 2,368 (1,074) (888) x 82.3 (2,091) 2,368 (1,074) (888) x 82.3 (2,091) 2,347 (1,064)
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch  DUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency  PERATING DATA  POWER RATINGS  Single-F Three-P	Full System Status Display     Multilingual 128x64 Graphical Display with Heater     Easy Status View LED Screen     3-Phase AC Volts     3-Phase AC Volts     3-Phase AMps     KW      KW      SET      SET      Standby      Phase 120/240 VAC @1.0pf 30 KW Am hase 120/240 VAC @0.8pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 346/600 VAC @0.8pf 30 kW Am hase 120/240 VAC @0.8pf 30 kW Am hase 346/600 VAC @0.8pf 30 kW Am h			SET         Image: Set constraints	- in (mm)         Weight - lbs (kg)           (888) x 46.3 (1,177)         1,291 (586)           (888) x 59.7 (1,517)         1,826 (828)           (888) x 59.7 (1,517)         1,870 (848)           (888) x 59.7 (1,517)         2,093 (949)           (888) x 82.3 (2,091)         2,368 (1,074)           (888) x 82.3 (2,091)         2,347 (1,064)           HE         Weight - lbs (kg)           - in (mm)         Steel         Aluminu           (888) x 60.8 (1,543)         2,011 (912)         2,200 (9)           (888) x 60.8 (1,543)         2,055 (932)         2,244 (1,0)           (888) x 73.8 (1,874)         2,278 (1,033)         2,467 (1,1)           (888) x 83.4 (2,117)         2,532 (1,148)         2,721 (1,2)           HE         Weight - lbs (kg)         -           - in (mm)         Steel         Aluminu           (888) x 83.4 (2,117)         2,532 (1,148)         2,721 (1,2)           (888) x 60.8 (1,543)         2,015 (914)
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch  DUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA  POWER RATINGS  Single-F Three-P	<ul> <li>Full System Status Display</li> <li>Multilingual 128x64 Graphical Display with Heater</li> <li>Easy Status View LED Screen</li> <li>3-Phase AC Volts</li> <li>3-Phase AC volts</li> <li>3-Phase AC volts</li> <li>3-Phase AC works</li> <li>KW</li> </ul> W a SET           Standby           Phase 120/240 VAC @0.0pf         30 kW         Am           hase 277/480 VAC @0.0pf         30 kW         An           hase 277/480 VAC @0.0pf         30 kW         An           bin         Percent Loa         310         25%           k0050124Y26         70         k0050124Y26         74           ump Lift - ft (m)         gpm (Lpm)         100%         *Fuel supply instituel consumption           ient Temperature         "F (°C)         5%         50%         50%           ient Temperature (Before Derate)         See Bullietin Nc         See Bulletin Nc         1			SET         Image: Set constraints	- in (mm)         Weight - lbs (kg)           (888) x 46.3 (1,177)         1,291 (586)           (888) x 59.7 (1,517)         1,826 (628)           (888) x 59.7 (1,517)         1,870 (848)           (888) x 72.7 (1,847)         2,093 (949)           (888) x 82.3 (2,091)         2,368 (1,074)           (888) x 82.3 (2,091)         2,368 (1,074)           (888) x 82.3 (2,091)         2,347 (1,064)           HE         Weight - lbs (kg)           - in (mm)         Steel         Aluminu           (888) x 60.8 (1,543)         2,011 (912)         2,200 (9           (888) x 60.8 (1,543)         2,011 (912)         2,200 (9           (888) x 60.8 (1,543)         2,011 (912)         2,200 (9           (888) x 60.8 (1,543)         2,015 (932)         2,244 (1,           (888) x 73.8 (1,874)         2,278 (1,033)         2,467 (1,           (888) x 83.4 (2,117)         2,532 (1,148)         2,721 (1,           HE         Weight - lbs (kg)           - in (mm)         Steel         Aluminu           (888) x 60.8 (1,543)         2,015 (914)         2,204 (9           (888) x 60.8 (1,543)         2,015 (914)         2,204 (9           (888) x 60.8 (1,543)         2,015 (914)         2,204 (9
Programmable Auto Crank Selectable Low Speed Exercise RS-232 x2 RS-485 x2 All-Phase Sensing Digital Voltage Regulator On/Off/Manual Switch  DO30T   2.2L   30 k IDUSTRIAL DIESEL GENERATOF A Certified Stationary Emergency PERATING DATA  POWER RATINGS  Single-F Three-P Store Starting CAPABILITIES (SKVA)  Coolant Flow Coolant Flow Coolant System Capacity Heat Rejection to Coolant Intel Air Maximum Operating Amb Maximum Additional Rad  COMBUSTION AIR REQUIREMENTS	Full System Status Display     Multilingual 128x64 Graphical Display with Heater     Easy Status View LED Screen     3-Phase AC Volts     3-Phase AC Volts     3-Phase AC Volts     S-Phase AC Volts     Set       Standby      Phase 120/240 VAC @1.0pf     So KW     Am hase 120/240 VAC @0.8pf     So KW     Am hase 120/240 VAC @0.8pf     So KW     Am hase 346/600 VAC @0.8pf     So KW     Am hase 346/600 VAC @0.8pf     So KW     M      SKVA vs. Voltage Dip 277/480 VAC 30     So <sup>5</sup>	Batiery Voltage     Alternator Frequency      Alarms and Warnings     Common Alarm Output     Audible Alarm and Silence      Common Alarm Couput     Audible Alarm and Silence      Commence      Commence		SET         Image: Set constraints of the set of the	- in (mm)       Weight - lbs (kg)         (888) × 46.3 (1.177)       1.291 (586)         (888) × 59.7 (1.517)       1.826 (828)         (888) × 59.7 (1.517)       1.870 (848)         (888) × 59.7 (1.517)       1.870 (848)         (888) × 59.7 (1.517)       1.870 (848)         (888) × 59.7 (1.517)       1.870 (848)         (888) × 82.3 (2.091)       2.368 (1.074)         (888) × 82.3 (2.091)       2.347 (1.064)         (888) × 82.3 (2.091)       2.347 (1.064)         (888) × 60.8 (1.543)       2.011 (912)       2.200 (5         (888) × 60.8 (1.543)       2.011 (912)       2.200 (5         (888) × 60.8 (1.543)       2.055 (932)       2.244 (1,         (888) × 60.8 (1.543)       2.055 (932)       2.244 (1,         (888) × 83.4 (2.117)       2.532 (1.148)       2.721 (1,         (888) × 83.4 (2.117)       2.532 (1.148)       2.721 (1,         (888) × 60.8 (1.543)       2.015 (914)       2.204 (5         (888) × 60.8 (1.543)       2.015 (914)       2.248 (1,         (888) × 83.4 (2.117)       2.536 (1.150)       2.725 (1,         (888) × 83.4 (2.117)       2.536 (1.150)       2.725 (1,         (888) × 83.4 (2.117)       2.536 (1.150)       2.725 (1,         (888) × 83

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verticalbridge	VERTICAL BRIDGE 750 PARK OF COMMERCE DRIVE, SUITE 200 BOCA RATON, FL 33487
DEPLOYMENT SER I SPECTRUM POINT SUITE 130 LAKE FOREST, CA 9	E DRIVE,
((•)) ALLST ENGINEERING 8 23675 BIRTCHER LAKE FOREST, C	DRIVE
1       100% CD (VB REFORMAT)         0       100% CD's FOR SUBMITTAL         A       80% CD's FOR REVIEW         No.       Submittal / Revision         Drawn:       RN	SS         07/09/24           RN         05/30/24           App'd         Date
Checked: <u>SS</u> Date Project Number NI <u>GHTMA</u>	: <u>05/30/24</u> RE R <i>O</i> CK
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Engineer Stamp PROFESSIONA SSAM ZALZA 71655 TOTAL OF CALIFOR	
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Date: 	
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	FUNCTION
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E	FUEL FILL
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e —	FUEL RETURN
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E> . (	INNER TANK EMERGENCY VENT
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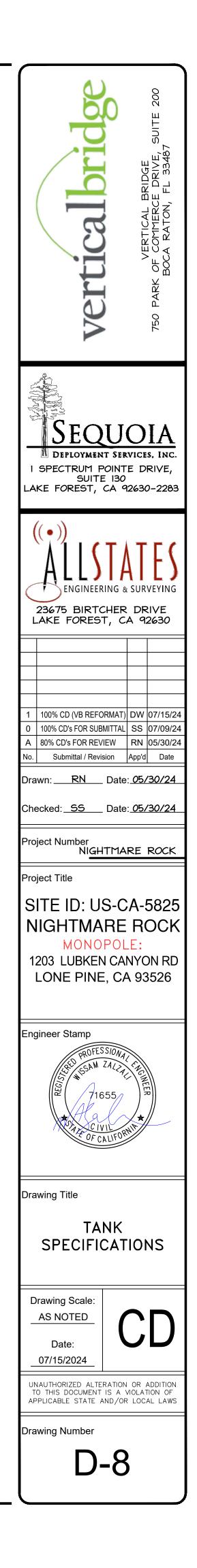
	00011000100
APACITY	825 [218]
APACITY	795 [210]
EIGHT	448 [988]

CAPACITY: LITER (GALLONS) WEIGHT: KILOGRAMS (POUNDS) DIMENSIONS: MM (INCH)

# GENERAC'

# INSTALL BASETANK A-GRP 210 GAL WITH FLUID CONTAINMENT

AGENO DWGND N/A		0.	J8971	A
.063	WT-KG	0.00	SHEET	1 of 1



ELECTRICAL INSTALLATION METHODS:

- I. THIS INSTALLATION SHALL COMPLY WITH THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND WITH UTILITY COMPANY AND LOCAL CODE REQUIREMENTS.
- 2. INSTALL SUFFICIENT LENGTHS OF LFMC INCLUDING ALL CONDUIT FITTINGS (NUTS,
- REDUCING BUSHINGS, ELBOWS, COUPLINGS, ETC) NECESSARY FOR CONNECTION FROM IMC OR PVC CONDUIT TO THE INTERIOR OF THE BTS CABINET. 3. POWER, CONTROL AND EQUIPMENT GROUND WIRING IN TUBING OR CONDUIT SHALL BE
- SINGLE CONDUCTOR (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION; LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED. 4. CUT, COIL AND TAPE A 3 FOOT PIGTAIL FROM END OF LFMC FOR TERMINATING BY BTS
- EQUIPMENT MANUFACTURER. 5. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED INDOORS SHALL BE SINGLE CONDUCTOR (#6 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2 GREEN
- INSULATION, CLASS B STRANDED COPPER CABLE RATED FOR 90°C (WET AND DRY) OPERATION, LISTED OR LABELED FOR THE LOCATION AND RACEWAY SYSTEM USED. 6. SUPPLEMENTAL EQUIPMENT GROUND WIRING LOCATED OUTDOORS OR BELOW GRADE SHALL
- BE SINGLE CONDUCTOR #2 AWG SOLID, TINNED, COPPER CABLE. 7. POWER AND CONTROL WIRING, NOT IN TUBING OR CONDUIT, SHALL BE MULTI-CONDUCTOR, TYPE TC. CABLE (#14 AWG AND LARGER), 600V, OIL RESISTANT THHN OR THWN-2,
- CLASS B, STRANDED COPPER CABLE RATED FOR 90°C (WET OR DRY) OPERATION, WITH OUTER JACKET LISTED OR LABELED FOR THE LOCATION USED. 8. CABLES SHALL NOT BE ROUTED THROUGH LADDER-STYLE CABLE TRAY RUNGS.
- 9. RACEWAY AND CABLE TRAY SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC. 10. NEW RACEWAY OR CABLE TRAY SHALL MATCH THE EXISTING INSTALLATION WHERE
- POSSIBLE. 11. ALL POWER AND GROUNDING CONNECTIONS SHALL BE CRIMP STYLE, COMPRESSION, WIRE LUGS AND WIRENUTS BY THOMAS AND BETTS (OR EQUAL). LUGS AND WIRENUTS SHALL
- BE RATED FOR OPERATION AT NO LESS THAN 75°C. 12. EACH END OF EVERY POWER, GROUNDING AND TI CONDUCTOR AND CABLE SHALL BE LABELED WITH COLOR CODED INSULATION OR ELECTRICAL TAPE. THE IDENTIFICATION
- METHOD SHALL CONFORM WITH NEC & OSHA AND MATCH EXISTING INSTALLATION REQUIREMENTS. 13. ALL ELECTRICAL COMPONENTS SHALL BE CLEARLY LABELED WITH ENGRAVED LAMINATED PLASTIC LABELS. ALL EQUIPMENT SHALL BE LABELED WITH THEIR VOLTAGE RATING,
- PHASE CONFIGURATION, WIRE CONFIGURATION, POWER OR AMPACITY RATING AND BRANCH CIRCUIT ID NUMBERS (PANELBOARD AND CIRCUIT IDENTIFICATION). 14. ALL TIE WRAPS SHALL BE CUT FLUSH WITH APPROVED CUTTING TOOL TO REMOVE SHARP
- EDGES. 15. RIGID NONMETALLIC CONDUIT (PVC SCHEDULE 40 OR PVC SCHEDULE 80) SHALL BE USED UNDERGROUND, DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT VEHICLE TRAFFIC OR
- ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY VEHICLE TRAFFIC. 16. ALL CONDUIT RUN ABOVE GROUND OR EXPOSED SHALL BE LFMC, IMC OR RIGID STEEL. 17. ELECTRICAL METALLIC TUBING (EMT) SHALL BE USED FOR CONCEALED INDOOR
- LOCATIONS. 18. LIQUID TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS
- WHERE VIBRATION OCCURS OR FLEXIBILITY IS NEEDED. 19. CONDUIT AND TUBING FITTINGS SHALL BE THREADED OR COMPRESSION TYPE AND
- APPROVED FOR THE LOCATION USED. SETSCREW FITTINGS ARE NOT ACCEPTABLE. 20. CABINETS, BOXES AND WIREWAYS SHALL BE LISTED OR LABELED FOR ELECTRICAL USE IN
- ACCORDANCE WITH NEMA, UL, ANSI/IEEE AND NEC. 21. CABINETS, BOXES AND WIREWAYS SHALL MATCH THE EXISTING INSTALLATION WHERE POSSIBLE
- 22. PROVIDE NECESSARY TAGGING ON THE BREAKERS, CABLES AND DISTRIBUTION PANELS IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS TO SAFEGUARD LIFE AND PROPERTY.
- 23. THE SUBCONTRACTOR SHALL REVIEW AND INSPECT THE EXISTING FACILITY GROUNDING SYSTEM AND LIGHTNING PROTECTION SYSTEM (AS DESIGNED AND INSTALLED) FOR STRICT COMPLIANCE WITH THE NEC. THE SITE SPECIFIC LIGHTNING PROTECTION CODE AND GENERAL COMPLIANCE WITH TELCORDIA AND TIA GROUNDING STANDARDS. THE SUBCONTRACTOR SHALL REPORT ANY VIOLATIONS OR ADVERSE FINDINGS TO THE CONTRACTOR FOR RESOLUTION.
- 24. ALL ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION AND AC POWER GES'S) SHALL BE BONDED TOGETHER AT OR BELOW GRADE
- BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE NEC. 25. PERFORM IEEE FALL-OF-POTENTIAL RESISTANCE TO EARTH TESTING (PER IEEE 1100 AND 81) FOR NEW GROUND ELECTRODE SYSTEMS. THE SUBCONTRACTOR SHALL FURNISH AND INSTALL SUPPLEMENTAL GROUND ELECTRODES AS NEEDED TO ACHIEVE A TEST RESULT
- OF 5 OHMS OR LESS. 26. METAL RACEWAY SHALL NOT BE USED AS THE NEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION SIZED IN ACCORDANCE WITH THE NEC SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT
- 27. EACH INDOOR BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH SUPPLEMENTAL EQUIPMENT GROUND WIRES #6 OR LARGER.
- 28. EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE. 29. APPROVED ANTIOXIDANT COATINGS (I.E. CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
- 30. ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED TO THE BRIDGE AND THE TOWER GROUND BAR.
- 31. SURFACES TO BE CONNECTED TO GROUND CONDUCTORS SHALL BE CLEANED TO A BRIGHT SURFACE AT ALL CONNECTIONS. 32. EXPOSED GROUND CONNECTIONS SHALL BE MADE WITH COMPRESSION CONNECTORS WHICH
- ARE THEN BOLTED TO EQUIPMENT USING STAINLESS STEEL HARDWARE. INSTALLATION TORQUE SHALL BE PER MANUFACTURER'S REQUIREMENTS.
- 33. DC POWER CABLES SHALL BE COBRA COP-FLEX 2000, FLEXIBLE CLASS B OR APPROVED EQUAL.

# ELECTRICAL NOTES

# GENERAL REQUIREMENTS:

- I. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE NATIONAL ELECTRICAL CODE AND ALL STATE AND LOCAL CODES. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED AS TO PERMIT WORK NOT CONFORMING TO THE MOST STRINGENT OF THESE CODES. SHOULD CHANGES BE NECESSARY IN THE DRAWINGS OR SPECIFICATIONS TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND CEASE WORK ON PARTS OF THE CONTRACT WHICH ARE AFFECTED.
- 2. THE CONTRACTOR SHALL MAKE A SITE VISIT PRIOR TO BIDDING AND CONSTRUCTION TO VERIFY ALL EXISTING CONDITIONS AND SHALL NOTIFY ARCHITECT IMMEDIATELY UPON DISCOVERY OF ANY DISCREPANCIES. THE CONTRACTOR ASSUMES ALL LIABILITY FOR FAILURE TO COMPLY WITH THIS PROVISION.
- 3. THE EXTENT OF THE WORK IS INDICATED BY THE DRAWINGS, SCHEDULES, AND SPECIFICATIONS AND IS SUBJECT TO THE TERMS AND CONDITIONS OF THE CONTRACT. THE WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM. THE WORK SHALL ALSO INCLUDE THE COMPLETION OF ALL ELECTRICAL WORK NOT MENTIONED OR SHOWN WHICH IS NECESSARY FOR SUCCESSFUL OPERATION OF ALL SYSTEMS.
- 4. THE CONTRACTOR SHALL PREPARE A BID FOR A COMPLETE AND OPERATIONAL SYSTEM, WHICH INCLUDES THE COST FOR MATERIAL AND LABOR.
- 5. WORKMANSHIP AND NEAT APPEARANCE SHALL BE AS IMPORTANT AS THE OPERATION.

DEFECTIVE OR DAMAGED MATERIALS SHALL BE REPLACED OR REPAIRED PRIOR TO FINAL ACCEPTANCE IN A MANNER ACCEPTABLE TO OWNER AND ENGINEER.

- 6. COMPLETE THE ENTIRE INSTALLATION AS SOON AS THE PROGRESS OF THE WORK WILL PERMIT. ARRANGE ANY OUTAGE OF SERVICE WITH THE OWNER AND BUILDING MANAGER IN ADVANCE. MINIMIZE DOWNTIME ON THE BUILDING ELECTRICAL SYSTEM.
- 7. THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE DELIVERED IN PROPER WORKING ORDER. REPLACE, WITHOUT ADDITIONAL COST TO THE OWNER, ANY DEFECTIVE MATERIAL AND EQUIPMENT WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- 8. ANY ERROR, OMISSION OR DESIGN DISCREPANCY ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION OR CORRECTION BEFORE CONSTRUCTION.
- 9. "PROVIDE" INDICATES THAT ALL ITEMS ARE TO BE FURNISHED, INSTALLED AND CONNECTED IN PLACE.
- 10. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS AND PAY ALL REQUIRED FEES

# EQUIPMENT LOCATION:

- I. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATIONS OR ARRANGEMENTS OF CONDUIT RUNS, OUTLETS, EQUIPMENT, ETC., AND ARE TO BE FOLLOWED AS CLOSELY AS POSSIBLE. PROPER JUDGEMENT MUST BE EXERCISED IN EXECUTING THE WORK SO AS TO SECURE THE BEST POSSIBLE INSTALLATION IN THE AVAILABLE SPACE LIMITATIONS OR INTERFERENCE OF STRUCTURE CONDITIONS ENCOUNTERED.
- 2. IN THE EVENT CHANGES IN THE INDICATED LOCATIONS OR ARRANGEMENTS ARE NECESSARY, DUE TO FIELD CONDITIONS IN THE BUILDING CONSTRUCTION OR REARRANGEMENT OF FURNISHINGS OR EQUIPMENT, SUCH CHANGES SHALL BE MADE WITHOUT COST, PROVIDING THE CHANGE IS ORDERED BEFORE THE CONDUIT RUNS, ETC., AND WORK DIRECTLY CONNECTED TO THE SAME IS INSTALLED AND NO EXTRA MATERIALS ARE REQUIRED.
- 3. LIGHTING FIXTURES ARE SHOWN IN THEIR APPROXIMATE LOCATIONS ONLY. COORDINATE THE FIXTURE LOCATION WITH MECHANICAL EQUIPMENT TO AVOID INTERFERENCE.
- 4. COORDINATE THE WORK OF THIS SECTION WITH THAT OF ALL OTHER TRADES, WHERE CONFLICTS OCCUR, CONSULT WITH THE RESPECTIVE CONTRACTOR AND COME TO AGREEMENT AS TO CHANGES NECESSARY, OBTAIN WRITTEN ACCEPTANCE FROM ENGINEER FOR THE PROPOSED CHANGES BEFORE PROCEEDING.

# SHOP DRAWINGS:

I. N/A UNLESS NOTED OTHERWISE

# SUBSTITUTIONS:

I. NO SUBSTITUTIONS ARE ALLOWED

TESTS:

I. BEFORE FINAL ACCEPTANCE OF WORK, THE CONTRACTOR SHALL INSURE THAT ALL EQUIPMENT, SYSTEMS, FIXTURES, ETC., ARE WORKING SATISFACTORILY AND TO THE INTENT OF THE DRAWINGS.

PERMITS:

I. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING OUT AND PAYING FOR ALL REQUIRED PERMITS, INSPECTION AND EXAMINATION WITHOUT ADDITIONAL EXPENSE TO THE OWNER

**GROUNDING:** 

- I. THE CONTRACTOR SHALL PROVIDE A COMPLETE, AND APPROVED GROUNDING SYSTEM INCLUDING ELECTRODES, ELECTRODE CONDUCTOR, BONDING CONDUCTORS, AND EQUIPMENT CONDUCTORS AS REQUIRED BY ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- 2. CONDUITS CONNECTED TO EQUIPMENT AND DEVICES SHALL BE METALLICALLY JOINED TOGETHER TO PROVIDE EFFECTIVE ELECTRICAL CONTINUITY.
- 3. FEEDERS AND BRANCH CIRCUIT WIRING INSTALLED IN A NONMETALLIC CONDUIT SHALL INCLUDE A CODE SIZED GROUNDING CONDUCTOR HAVING GREEN INSULATION. THE GROUND CONDUCTOR SHALL BE PROPERLY CONNECTED AT BOTH ENDS TO MAINTAIN ELECTRICAL CONTINUITY.
- 4. REFER TO GROUND BUS DETAILS. PROVIDE NEW GROUND SYSTEM COMPLETE WITH CONDUCTORS, GROUND ROD AND DESCRIBED TERMINATIONS.
- 5. ALL GROUNDING CONDUCTORS SHALL BE SOLID TINNED COPPER AND ANNEALED #2 UNLESS NOTED OTHERWISE.
- 6. ALL NON-DIRECT BURIED TELEPHONE EQUIPMENT GROUND CONDUCTORS SHALL BE #2 STRANDED THHN (GREEN) INSULATION.
- 7. ALL GROUND CONNECTIONS SHALL BE MADE WITH "HYGROUND" COMPRESSION SYSTEM BURNDY CONNECTORS EXCEPT WHERE NOTED OTHERWISE.
- 8. PAINT AT ALL GROUND CONNECTIONS SHALL BE REMOVED.
- 9. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE OWNER FOR FUTURE INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE VALUE. SUBMIT TEST REPORTS AND FURNISH TO SMART SMR ONE COMPLETE SET OF PRINTS SHOWING "INSTALLED WORK".

# UTILITY SERVICE:

- I. TELEPHONE AND ELECTRICAL METERING FACILITIES SHALL CONFORM TO THE REQUIREMENTS OF THE SERVING UTILITY COMPANIES. CONTRACTOR SHALL VERIFY SERVICE LOCATIONS AND REQUIREMENTS. SERVICE INFORMATION WILL BE FURNISHED BY THE SERVING UTILITIES.
- 2. CONFORM TO ALL REQUIREMENTS OF THE SERVING UTILITY COMPANIES.

# PRODUCTS:

- I. ALL MATERIALS SHALL BE NEW, CONFORMING WITH NEC, ANSI, NEMA, AND THEY SHALL BE U.L. LISTED AND LABELED.
- 2. CONDUIT:
  - A) RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR, RIGID CONDUIT IN CONTACT WITH

EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

B) ELECTRICAL METALLIC TUBING SHALL U.L. LABEL, FITTINGS SHALL BE COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

RIGHT ANGLES TO CEILING, FLOOR OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH ARCHITECT PRIOR TO INSTALLING.

NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE

F) ALL CONDUIT ONLY (C.O.) SHALL HAVE PULL ROPE.

- G) CONDUITS RUN ON ROOFS SHALL BE INSTALLED ON 4x4 REDWOOD SLEEPERS, 6'-0" ON CENTER, SET IN NON-HARDENING MASTIC.
- 3. ALL WIRE AND CABLE SHALL BE COPPER, 600 VOLT, #12 AWG MINIMUM UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #8 AWG AND LARGER SHALL BE STRANDED. TYPE THHN INSULATION USED UNLESS CONDUCTORS INSTALLED IN CONDUIT EXPOSED TO WEATHER, IN WHICH CASE TYPE THWN INSULATION SHALL BE USED.
- 4. PROVIDE GALVANIZED COATED STEEL BOXES AND ACCESSORIES SIZED PER CODE TO ACCOMMODATE ALL DEVICES AND WIRING.
- 5. DUPLEX RECEPTACLES SHALL BE SPECIFICATION GRADE WITH WHITE FINISH (UNLESS NOTED BY ENGINEER), 20 AMP, 125 VOLT, THREE WIRE GROUNDING TYPE, NEMA 5-20R. MOUNT RECEPTACLE AT +12" ABOVE FINISHED FLOOR UNLESS OTHERWISE INDICATED ON DRAWINGS OR IN DETAILS. WEATHERPROOF RECEPTACLES SHALL BE GROUND FAULT INTERRUPTER TYPE WITH SIERRA #WPD-8 LIFT COVERPLATES.
- 6. TOGGLE SWITCHES SHALL BE 20 AMP, 120 VOLT AC, SPECIFICATION GRADE WHITE (UNLESS NOTED OTHERWISE) FINISH. MOUNT SWITCHES AT +48" ABOVE FINISHED FLOOR.
- 7. PANELBOARDS SHALL BE DEAD FRONT SAFETY TYPE WITH ANTI-BURN SOLDERLESS COMPRESSION APPROVED FOR COPPER CONDUCTORS, COPPER BUS BARS, FULL SIZED NEUTRAL BUS, GROUND BUS AND EQUIPPED WITH QUICK-MAKE QUICK-BREAK BOLT-IN TYPE THERMAL MAGNETIC CIRCUIT BREAKERS. MOUNT TOP OF THE PANELBOARDS AT 6'-3" ABOVE FINISHED FLOOR. PROVIDE TYPE WRITTEN CIRCUIT DIRECTORY.
- 8. ALL CIRCUIT BREAKERS, MAGNETIC STARTERS AND OTHER ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THAN MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED.
- 9. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.

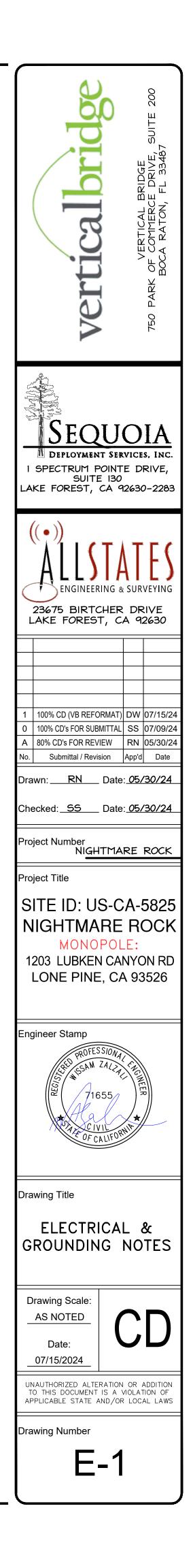
# INSTALLATION:

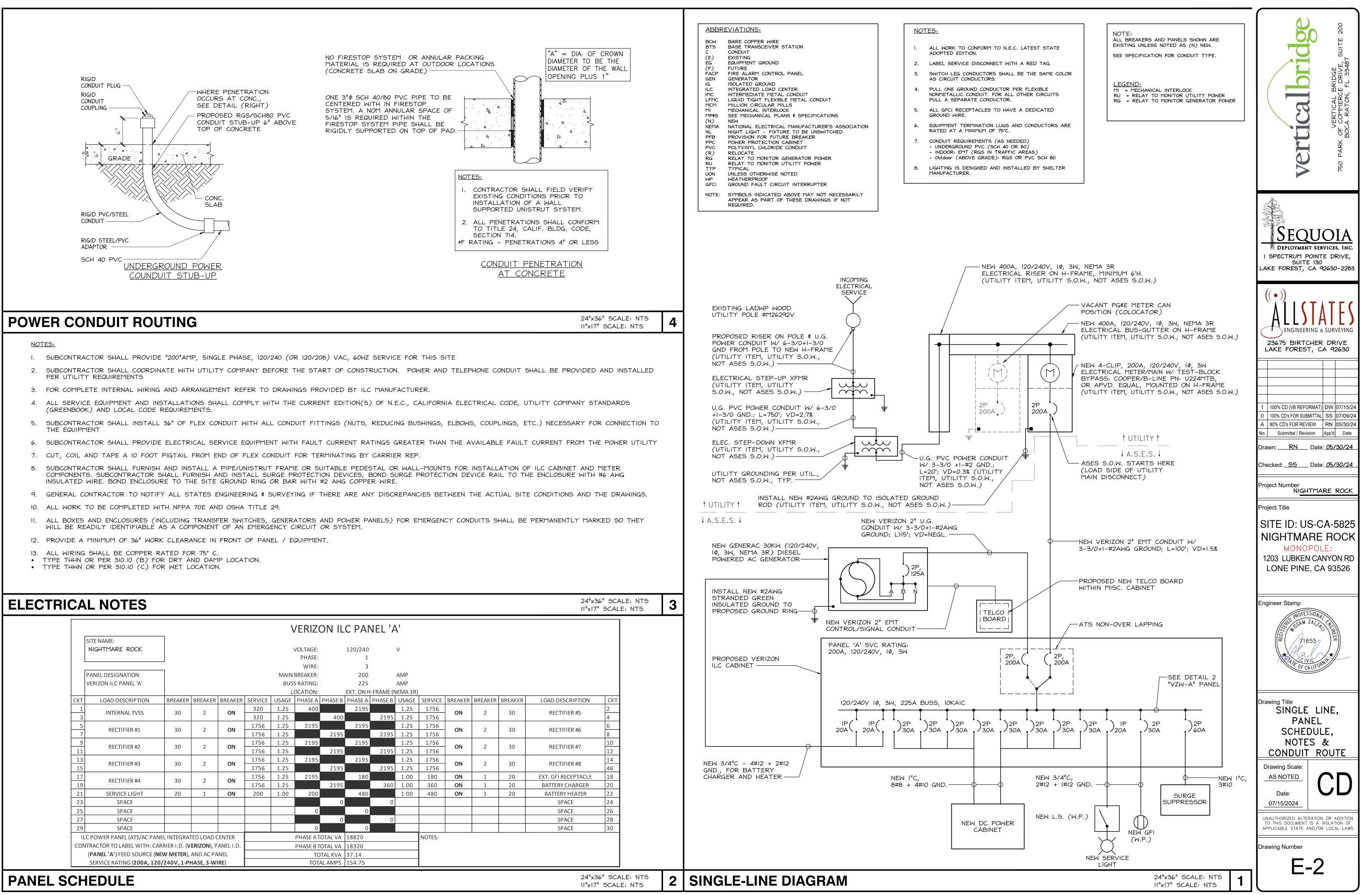
- I. PROVIDE SUPPORTING DEVICES FOR ALL ELECTRICAL EQUIPMENT, FIXTURES, BOXES, PANEL, ETC., SUPPORT LUMINARIES FROM UNDERSIDE OF STRUCTURAL CEILING, EQUIPMENT SHALL BE BRACED TO WITHSTAND HORIZONTAL FORCES IN ACCORDANCE WITH STATE AND LOCAL CODE REQUIREMENTS. PROVIDE PRIOR ALIGNMENT AND LEVELING OF ALL DEVICES AND FIXTURES.
- 2. CUTTING, PATCHING, CHASES, OPENINGS: PROVIDE LAYOUT IN ADVANCE TO ELIMINATE UNNECESSARY CUTTING OR DRILLING OF WALLS, FLOORS CEILINGS, AND ROOFS. ANY DAMAGE TO BUILDING STRUCTURE OR EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR. OBTAIN PERMISSION FROM THE ENGINEER BEFORE CORING.
- 3. 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/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER THE CIRCUMSTANCES.
- 4. LOCATION OF TENDONS AND/OR REINFORCING STEEL 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 AND/OR STEEL TENDONS.
- 5. PENETRATIONS IN FIRE RATED WALLS SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF THE C.B.C.

# PROJECT CLOSEOUT:

- I. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALLS DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
- 2. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS AND CIRCUITS.
- 3. ALL BROCHURES, OPERATING MANUALS, CATALOG, SHOP DRAWINGS, ETC., SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.

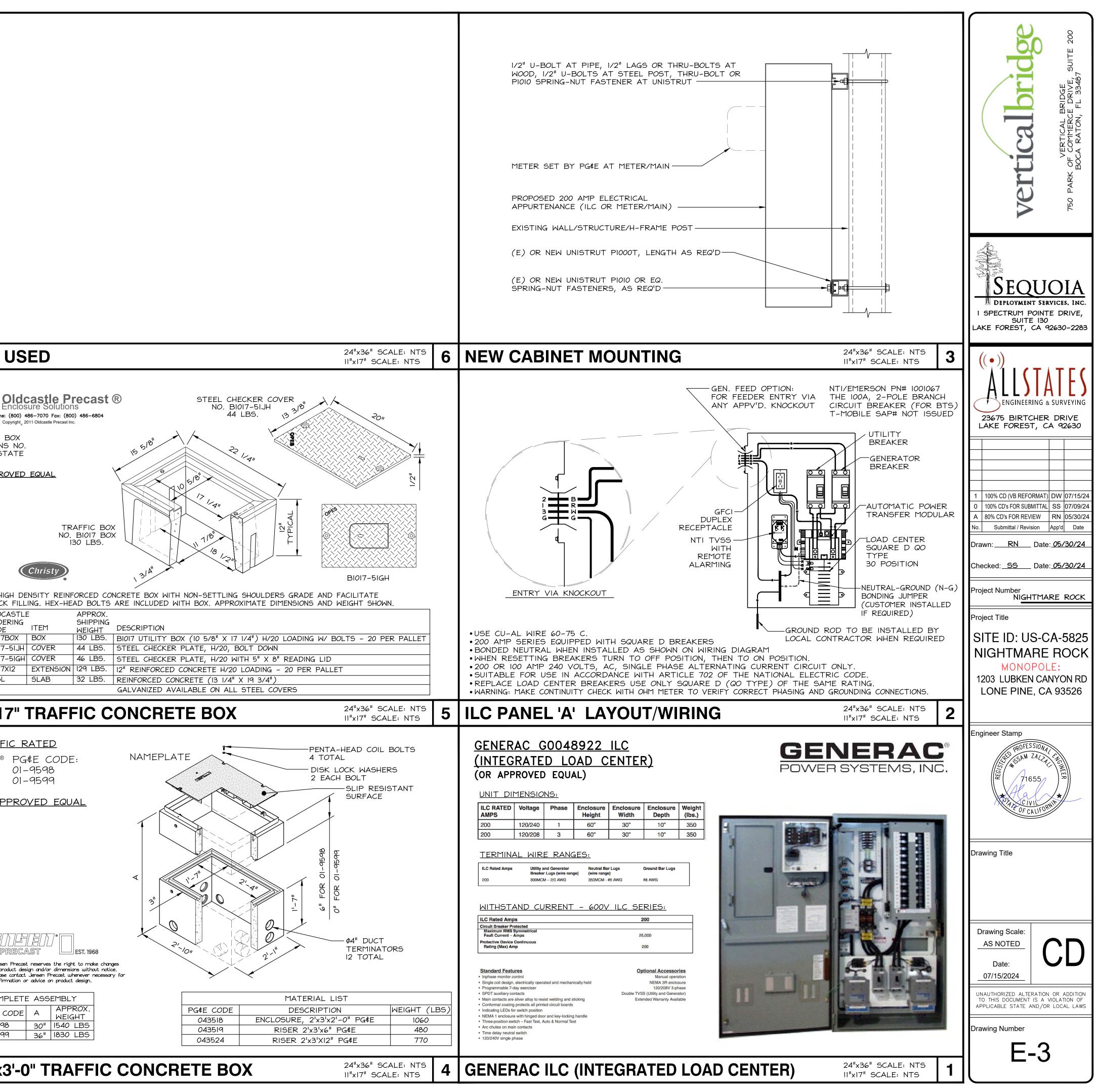
- C) FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND
- D) CONDUIT RUNS MAY BE SURFACE MOUNTED IN CEILING OR WALLS UNLESS INDICATED OTHERWISE. CONDUIT INDICATED SHALL RUN PARALLEL OR AT
  - E) ALL UNDERGROUND CONDUITS SHALL BE PVC SCHEDULE 40 (UNLESS





	VERIZON ILC PANEL 'A'												
	SITE NAME:								/				
	NIGHTMARE ROCK						VOLTAGE:		120/240		V		
							PHASE:		1				
	PANEL DESIGNATION:	1				NAAINI	WIRE:		3				
							BREAKER:		200 225		amp Amp		
	VERIZON ILC PANEL 'A'						S RATING:						
СКТ	LOAD DESCRIPTION	BDEAKED	BDEAKED	BREAKER	SERVICE	USAGE	OCATION:		EXT. ON H			SERVICE	BREAK
1		DILAKLI	DILLARLIN		320	1.25	400	THASED	2195	THASED	1.25	1756	
3	INTERNAL TVSS	30	2	ON	320	1.25	400	400		2195	1.25	1756	ON
5					1756	1.25	2195	100	2195	2155	1.25	1756	
7		30	2	ON	1756	1.25		2195		2195	1.25	1756	ON
9					1756	1.25	2195	+	2195		1.25	1756	
11	H RECHEIER #2	30	2	ON	1756	1.25		2195		2195	1.25	1756	ON
13		20			1756	1.25	2195		2195		1.25	1756	
15	RECTIFIER #3	30	2	ON	1756	1.25		2195		2195	1.25	1756	ON
17	RECTIFIER #4	30	2	ON	1756	1.25	2195		180		1.00	180	ON
19	RECTIFIER #4	50	2		1756	1.25		2195		360	1.00	360	ON
21	SERVICE LIGHT	20	1	ON	200	1.00	200		480		1.00	480	ON
23	SPACE							0		0			
25	SPACE						0		0				
27	SPACE							0		0			
29	SPACE						0		0				
П	LC POWER PANEL (ATS/AC PANE	LINTEGRA	TED LOAD (	CENTER			PHASE A T	OTAL VA	18820			NOTES:	
CONTRACTOR TO LABEL WITH: CARRIER I.D. (VERIZON), PANEL I.D.			D. PHASE B TOTAL VA			OTAL VA	VA 18320						
	(PANEL 'A') FEED SOURCE (NE	W METER),	AND AC PA	NEL			тс	TAL KVA	37.14				
	SERVICE RATING (200A, 120/	240V, 1-PH	HASE, 3-W	IRE)			TOT	AL AMPS	154.75				

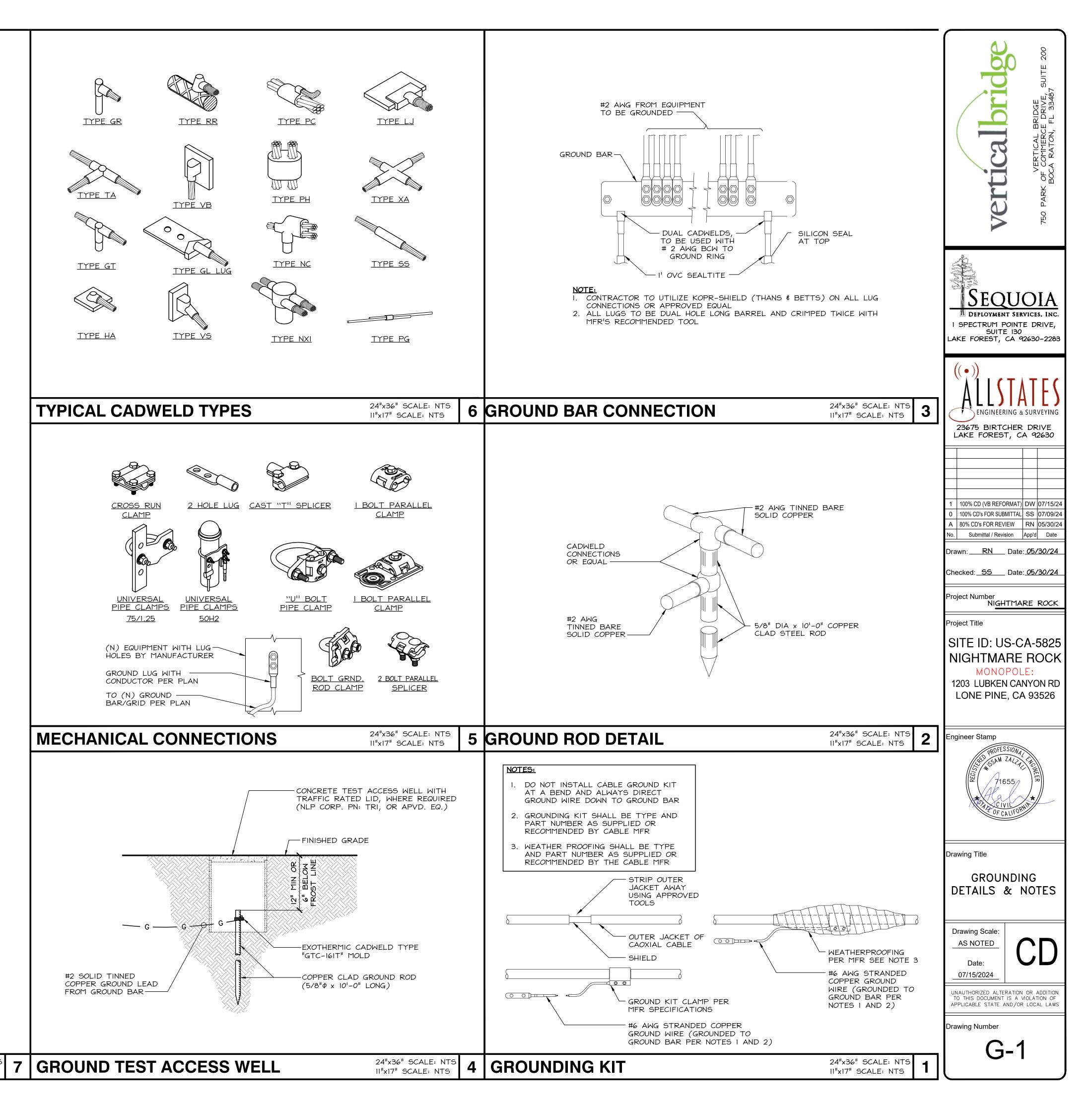
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## GROUNDING NOTES:

2. ALL GROUNDING CONDUCTORS: #2 AWG SOLID BARE TINNED COPPER WIRE UNLESS OTHERWISE NOTED.
3. GROUND BAR LOCATED IN BASE OF EQUIPMENT WILL BE PROVIDED, FURNISHED AND INSTALLED BY THE VENDOR.
4. ALL BELOW GRADE CONNECTIONS: EXOTHERMIC WELD TYPE, ABOVE GRADE CONNECTIONS: EXOTHERMIC WELD TYPE.
5. GROUND RING SHALL BE LOCATED A MINIMUM OF 24" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE.
6. INSTALL GROUND CONDUCTORS AND GROUND ROD MINIMUM OF 1'-0" FROM EQUIPMENT CONCRETE SLAB, SPREAD
FOOTING, OR FENCE. 7. EXOTHERMIC WELD GROUND CONNECTION TO FENCE POST: TREAT WITH A COLD GALVANIZED SPRAY.
8. GROUND BARS:
A) EQUIPMENT GROUND BUS BAR (EGB) LOCATED AT THE BOTTOM OF ANTENNA POLE/MAST FOR MAKING GROUNDING JUMPER CONNECTIONS TO COAX FEEDER CABLES SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. JUMPERS (FURNISHED BY OWNERS) SHALL BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR.
10. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
II. GROUNDING ATTACHMENT TO TOWER SHALL BE AS PER MANUFACTURER'S RECOMMENDATIONS OR AT GROUNDING POINTS PROVIDED (2 MINIMUM).
12. IF EQUIPMENT IS IN A C.L. FENCE ENCLOSURE, GROUND ONLY CORNER POSTS AND SUPPORT POSTS OF GATE. IF CHAIN LINK LID IS USED, THEN GROUND LID ALSO.
13. GROUNDING AT PPC CABINET SHALL BE VERTICALLY INSTALLED.
14. ALL GROUNDING FOR ANTENNAS SHALL BE CONNECTED SO THAT IT WILL BY-PASS MAIN BUSS BAR.
15. ALL EMT RUNS SHALL BE GROUNDED AND HAVE A BUSHING, NO PVC ABOVE GROUND.
16. USE SEPARATE HOLES FOR GROUNDING AT BUSS BAR. NO "DOUBLE-UP" OF LUGS.
17. POWER AND TELCO CABINETS SHALL BE GROUNDED (BONDED) TOGETHER.
18. NO LB'S ALLOWED ON GROUNDING.
19. PROVIDE STAINLESS STEEL CLAMP AND BRASS TAGS ON COAX AT ANTENNAS AND DOGHOUSE.
20 ALL ELECTRICAL AND GROUNDING AT THE CELL SITE SHALL COMPLY WITH THE NATIONAL ELECTRICAL CODE (NEC), NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 780 (LATEST EDITION), AND MANUFACTURER SPECIFICATION.
21 IF THE AC PANEL IN THE POWER CABINET IS WIRED AS SERVICE ENTRANCE, THE AC SERVICE GROUND CONDUCTOR SHALL BE CONNECTED
TO GROUND ELECTRODE SYSTEM. WHEN THE AC PANEL IN THE POWER CABINET IS CONSIDERED A SUB-PANEL, THE GROUND WIRE SHALL BE
INSTALLED IN THE AC POWER CONDUIT. THE INSTALLATION SHALL BE
PER LOCAL AND NATIONAL ELECTRIC CODE (NFPA-70).
22 EVATIERMIC WEIDING IS RECOMMENDED FOR CRAINDING CONNECTION WHERE REACTICAL ATHERMICE THE CONNECTION
22 EXOTHERMIC WELDING IS RECOMMENDED FOR GROUNDING CONNECTION WHERE PRACTICAL. OTHERWISE, THE CONNECTION SHALL BE
SHALL BE MADE USING COMPRESSION TYPE-2 HOLES. LONG BARREL LUGS OR DOUBLE CRIMP CLAMP "C" CLAMP. THE COPPER CABLES SHALL BE
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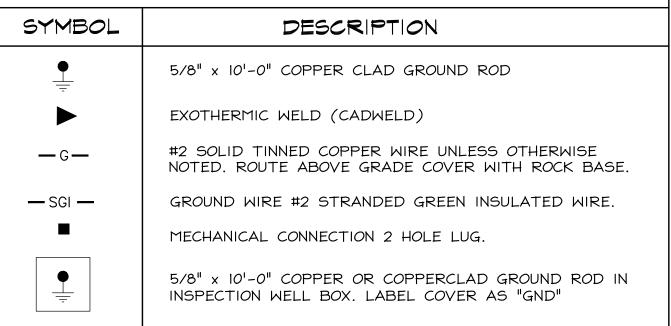
**GROUNDING NOTES** 



# GROUNDING GENERAL NOTES

- I. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- 2. ALL EXTERIOR GROUNDING AND TOP OF GROUNDING RODS SHALL BE BURIED TO A MINIMUM DEPTH OF 2'-6" BELOW FINISH GRADE, ELECTRIC METER GROUND EXCEPTED.
- 3. ALL GROUNDING LEAD CONDUCTORS SHALL BE #2 SOLID TINNED BARE COPPER.
- 4. GROUND SYSTEM MUST BE TESTED AND SHALL HAVE A RESISTANCE OF 5 OHMS OR LESS, SUBMIT AN INDEPENDENT FALL OF POTENTIAL TESTING REPORT.
- 5. NOTIFY PROJECT MANAGER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- 6. CHEMICAL GROUNDS SHALL BE XIT, CHEM-ROD OR APPROVED EQUAL, WHEN REQUIRED.
- 7. ALL UNDERGROUND GROUNDING CONNECTORS ARE TO BE CADWELDED ABOVE GRADE GROUNDING SHALL BE EITHER CADWELD OR MECHANICAL. AS SPECIFIED ON DRAWINGS.
- 8. ALL GROUNDING INSTALLATION IS TO BE IN ACCORDANCE WITH THE ATET WIRELESS STANDARDS AND SUPPLEMENTS PROVIDED BY THE PROJECT MANAGER.
- 9. DO NOT CADWELD ANY GROUND LEADS TO BUS BARS ANY CONNECTOR FROM GROUND RING TO BUS BAR IS MADE VIA 2-HOLE CADWELD TERMINAL LUG.
- 10. ALL TERMINAL LUG TO BUS BAR MOUNTING HARDWARE TO BE 3/8" STAINLESS STEEL

# GROUNDING LEGEND

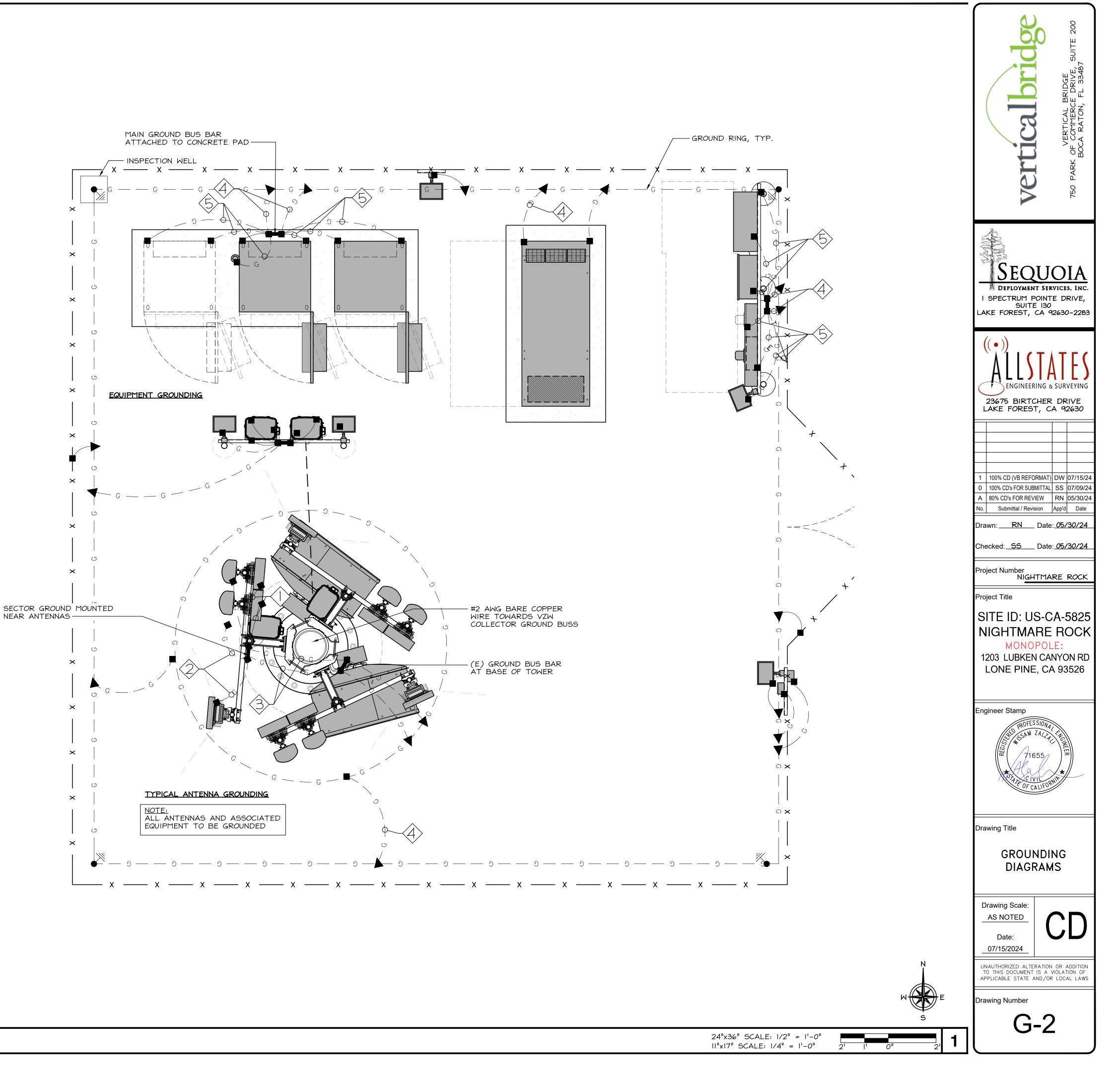


## <u>KEY NOTES</u>

NEW AWG 2 INSULATED COPPER GROUND FROM MICROWAVE, RRU AND SURGE ARRESTOR (TYP.) NEW AWG 6 INSULATED COPPER GROUND FROM ANTENNA GROUND KIT (TYP.)  $\langle 3 \rangle$ NEW AWG 2 BCW NEW AWG 2 INSULATED COPPER GROUND

(5) NEW AWG 2 BCW

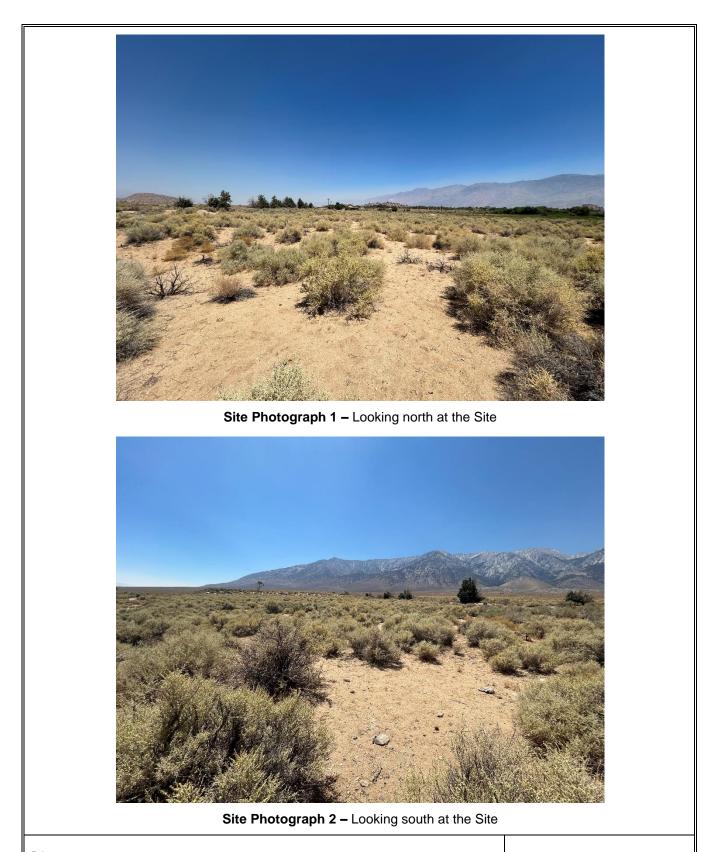
**GROUNDING PLAN** 



# Appendix B

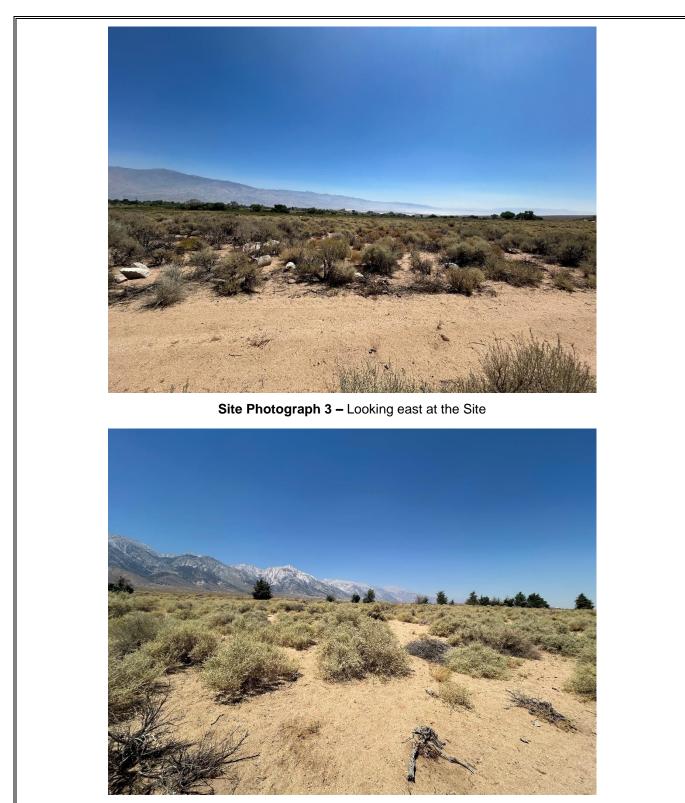
Site Photographs





Site Photographs VB BTS II LLC – US-CA-5825 Nightmare Rock 1203 Lubken Canyon Road Lone Pine, California 93526

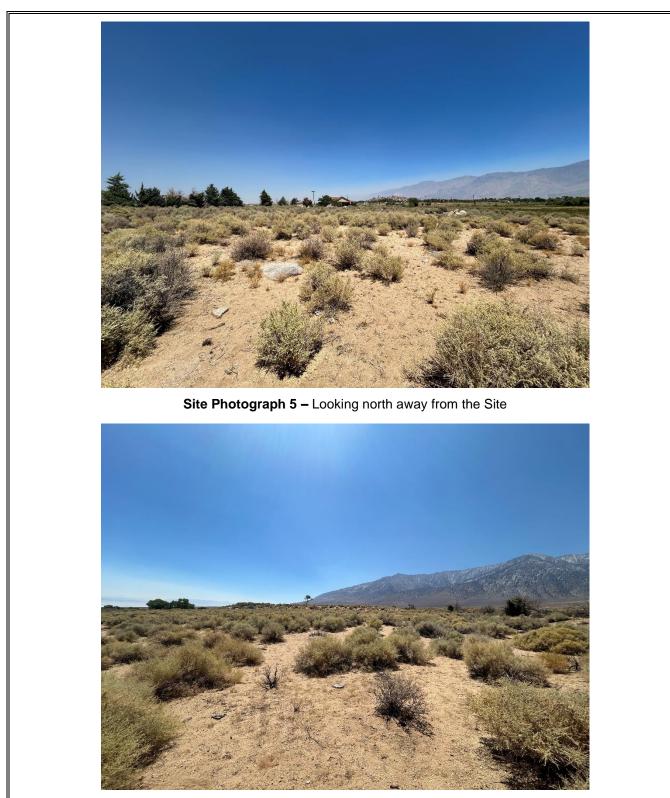
Photographed:



Site Photograph 4 – Looking west at the Site

## Site Photographs

VB BTS II LLC – US-CA-5825 Nightmare Rock 1203 Lubken Canyon Road Lone Pine, California 93526 Photographed:



Site Photograph 6 - Looking south away from the Site

## **Site Photographs**

VB BTS II LLC – US-CA-5825 Nightmare Rock 1203 Lubken Canyon Road Lone Pine, California 93526 Photographed:



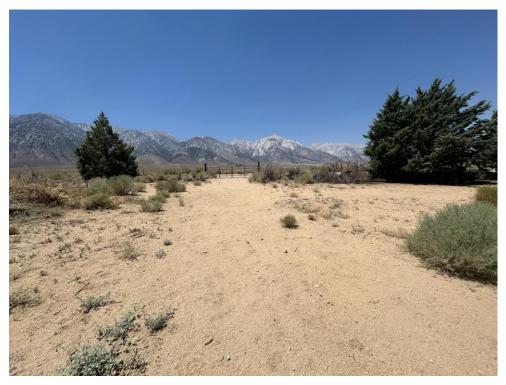
Site Photograph 8 - Looking west away from the Site

## **Site Photographs**

**VB BTS II LLC – US-CA-5825 Nightmare Rock** 1203 Lubken Canyon Road Lone Pine, California 93526 Photographed:



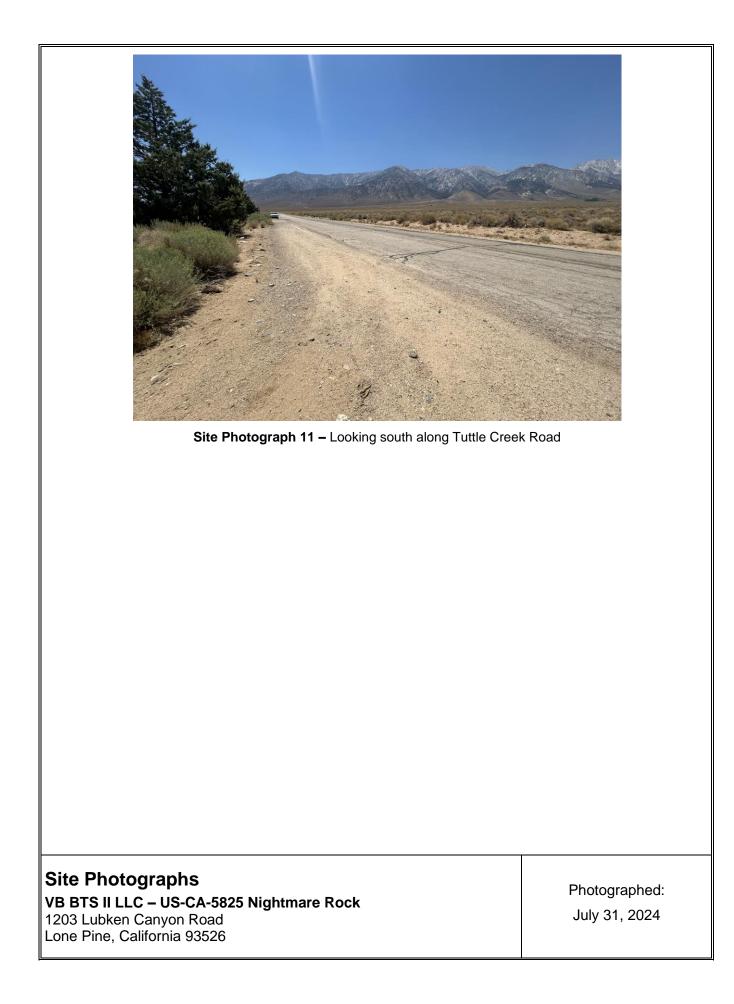
Site Photograph 9 - Looking north away from lease area along the access/utility easement



Site Photograph 10 - Looking west along the access/utility easement towards Tuttle Creek Road

## **Site Photographs**

**VB BTS II LLC – US-CA-5825 Nightmare Rock** 1203 Lubken Canyon Road Lone Pine, California 93526 Photographed: July 31, 2024





# Appendix C

Reference Material





# United States Department of the Interior

FISH AND WILDLIFE SERVICE Reno Fish And Wildlife Office 1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 Phone: (775) 861-6300 Fax: (775) 861-6301



In Reply Refer To: Project Code: 2024-0147428 Project Name: US-CA-5825 Nightmare Rock 09/20/2024 20:53:46 UTC

# Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed, and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through IPaC by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological

evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at: <a href="https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf">https://www.fws.gov/sites/default/files/documents/endangered-species-consultation-handbook.pdf</a>

**Migratory Birds**: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts, see <u>Migratory Bird Permit | What We Do | U.S. Fish & Wildlife</u> <u>Service (fws.gov)</u>.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures, see <a href="https://www.fws.gov/library/collections/threats-birds">https://www.fws.gov/library/collections/threats-birds</a>.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit <u>https://www.fws.gov/partner/council-conservation-migratory-birds</u>.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

Official Species List

- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

# **OFFICIAL SPECIES LIST**

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

## **Reno Fish And Wildlife Office**

1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 (775) 861-6300

## **PROJECT SUMMARY**

Project Code:	2024-0147428
Project Name:	US-CA-5825 Nightmare Rock
Project Type:	Communication Tower New Construction
Project Description:	Our client proposes to install a new telecommunications facility at the
	identified location

Project Location:

The approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@36.5582554,-118.09762441469027,14z</u>



Counties: Inyo County, California

# **ENDANGERED SPECIES ACT SPECIES**

There is a total of 6 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries<sup>1</sup>, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

## MAMMALS

NAME	STATUS
Fisher Pekania pennanti	Endangered
Population: SSN DPS	U
There is <b>proposed</b> critical habitat for this species. Your location does not overlap the critical	
habitat.	
Species profile: <u>https://ecos.fws.gov/ecp/species/3651</u>	
BIRDS	

NAME	STATUS
California Condor <i>Gymnogyps californianus</i> Population: Wherever found, except where listed as an experimental population There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/8193</u>	Endangered
Yellow-billed Cuckoo Coccyzus americanus Population: Western U.S. DPS There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/3911</u>	Threatened

## **FISHES**

NAME	STATUS
Owens Pupfish <i>Cyprinodon radiosus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/4982</u>	Endangered
Owens Tui Chub <i>Gila bicolor ssp. snyderi</i> There is <b>final</b> critical habitat for this species. Your location does not overlap the critical habitat. Species profile: <u>https://ecos.fws.gov/ecp/species/7289</u>	Endangered
INSECTS	

NAME	STATUS
Monarch Butterfly Danaus plexippus	Candidate
No critical habitat has been designated for this species.	

Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>

## **CRITICAL HABITATS**

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

# USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

# **BALD & GOLDEN EAGLES**

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act<sup>1</sup> and the Migratory Bird Treaty Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats<sup>3</sup>, should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 2. The Migratory Birds Treaty Act of 1918.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to <u>Bald Eagle Nesting and Sensitivity to Human Activity</u>

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

Breeds Oct 15 to Aug 31
Breeds Dec 1 to Aug 31

# **PROBABILITY OF PRESENCE SUMMARY**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence** (

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

#### Breeding Season (=)

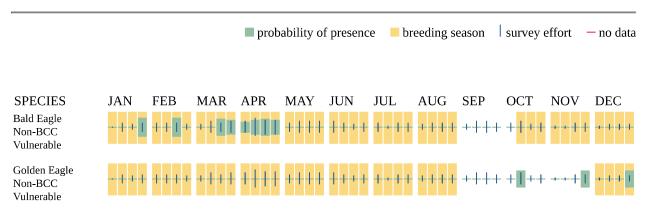
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

#### Survey Effort ()

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data (--)

A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action</u>

# **MIGRATORY BIRDS**

Certain birds are protected under the Migratory Bird Treaty Act<sup>1</sup> and the Bald and Golden Eagle Protection Act<sup>2</sup>.

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats<sup>3</sup> should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the <u>"Supplemental Information on Migratory Birds and Eagles"</u>.

- 1. The <u>Migratory Birds Treaty Act</u> of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Avocet <i>Recurvirostra americana</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <u>https://ecos.fws.gov/ecp/species/11927</u>	Breeds Apr 21 to Aug 10
Bald Eagle Haliaeetus leucocephalus This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Oct 15 to Aug 31
Clark's Grebe Aechmophorus clarkii This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10575	Breeds Jun 1 to Aug 31
Costa's Hummingbird Calypte costae This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA <u>https://ecos.fws.gov/ecp/species/9470</u>	Breeds Jan 15 to Jun 10
Golden Eagle Aquila chrysaetos This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. <u>https://ecos.fws.gov/ecp/species/1680</u>	Breeds Dec 1 to Aug 31

NAME	BREEDING SEASON
Lawrence's Goldfinch <i>Spinus lawrencei</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/9464</u>	Breeds Mar 20 to Sep 20
Leconte"s Thrasher <i>Toxostoma lecontei</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/8969</u>	Breeds Feb 15 to Jun 20
Long-eared Owl asio otus This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3631	Breeds Mar 1 to Jul 15
Western Grebe <i>aechmophorus occidentalis</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. <u>https://ecos.fws.gov/ecp/species/6743</u>	Breeds Jun 1 to Aug 31

# **PROBABILITY OF PRESENCE SUMMARY**

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read <u>"Supplemental Information on Migratory Birds and Eagles"</u>, specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

#### **Probability of Presence** (

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

#### Breeding Season (=)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

#### Survey Effort (|)

Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

#### No Data (-)

A week is marked as having no data if there were no survey events for that week.

■ probability of presence breeding season survey effort — no data

SPECIES	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
American Avocet BCC - BCR	+	· + + I	+1	<u>•</u> ]] +	1+1+	1 1 <del>1</del> 1	+1+	+ <del> </del>		+-+	+-	++
Bald Eagle Non-BCC Vulnerable	-++ <mark> </mark>	++1+	++11	1	++++	++++	++++	++++	++++	- + <del>  + +</del>	••+	
Clark's Grebe BCC Rangewide (CON)	+	- ++-+	• + + • +	111	+1+)	· · I -	•	· I I I		+ 1 +		1+
Costa's Hummingbird BCC - BCR	-+++	++++	++++	+ <b>∔</b> +∎	++++	++++	• + • + +	++++	++++	- + + + +		++++
Golden Eagle Non-BCC Vulnerable	•   +	++++	++++	++++	++++	++++	++++	++++	+++4	- + <b> </b> ++	· + + +	+++
Lawrence's Goldfinch BCC Rangewide (CON)	-+	- +++		+ <mark>∰</mark> ∔+	++++		• - •	• • • •	-++-	+ -+ -+	+-4	+
Leconte"s Thrasher BCC Rangewide (CON)	-+	1-1-1-1	-+++	+∔ <mark>I</mark> +	+	-+- I		+++		+-+-+	+-	
Long-eared Owl BCC Rangewide (CON)	-+++	- + + + +	++++	++++	++++	++++	+++	++++	++++	- + + + +		++++
Western Grebe BCC Rangewide (CON)	+	- ++-+	+++	++  1	++++		•	-+++		· ( 1 )	$ \psi  <  \psi $	· 1 1

Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>
- Supplemental Information for Migratory Birds and Eagles in IPaC <u>https://www.fws.gov/</u> media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occurproject-action

# WETLANDS

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of</u> <u>Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

FRESHWATER EMERGENT WETLAND

• PEM1B

RIVERINE

• R4SBCx

# **IPAC USER CONTACT INFORMATION**

Agency:	Trileaf Corporation
Name:	Samantha Neary
Address:	2121 W. Chandler Blvd.
Address Line 2:	Suite 108
City:	Chandler
State:	AZ
Zip:	85224
Email	s.neary@trileaf.com
Phone:	4808500575

Scientific_Name	Common_Name	Federal_Status	State_Status	State_Rank	<u> Rare_Plant_Rank</u>	CDFW_Status Taxon_Group
Sidalcea covillei	Owens Valley checkerbloom	None	Endangered	S2	1B.1	Dicots





## U.S. Fish and Wildlife Service **National Wetlands Inventory**

# US-CA-5825 Nightmare Rock



#### September 23, 2024

#### Wetlands

- **Estuarine and Marine Wetland**

Estuarine and Marine Deepwater

- Freshwater Pond

Freshwater Emergent Wetland

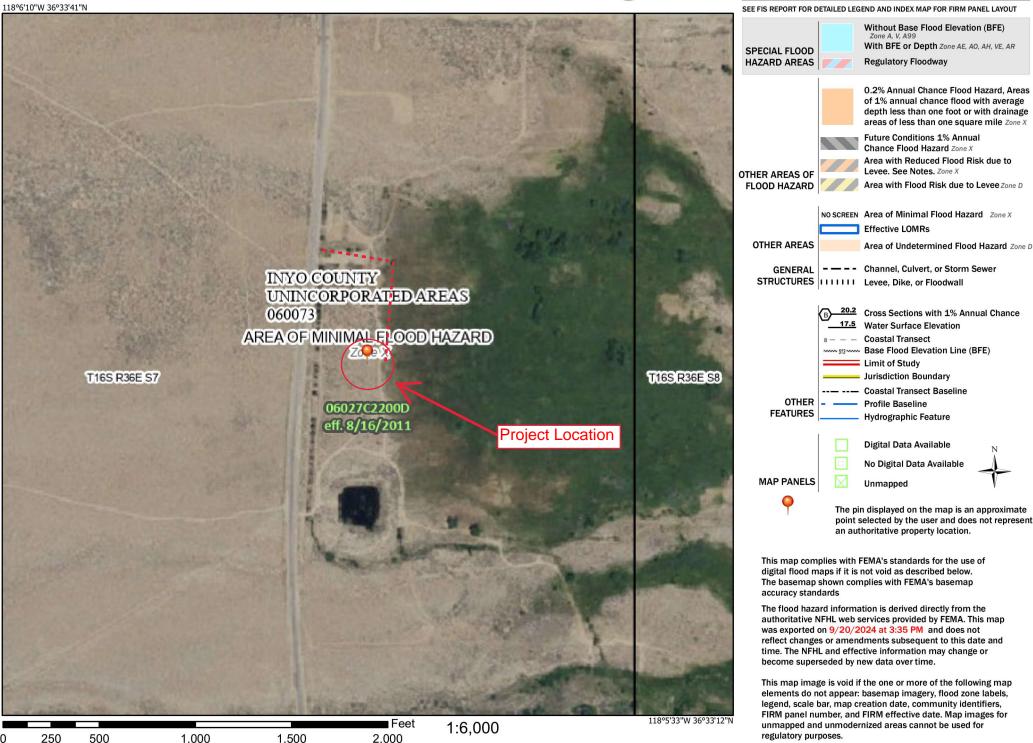
Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

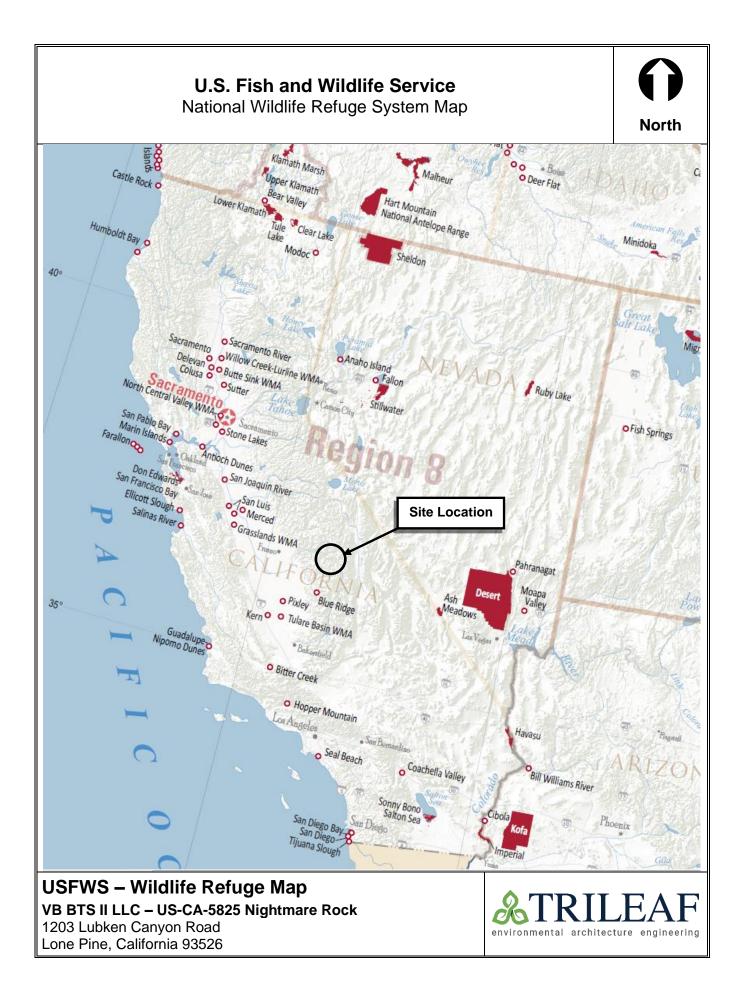
# National Flood Hazard Layer FIRMette

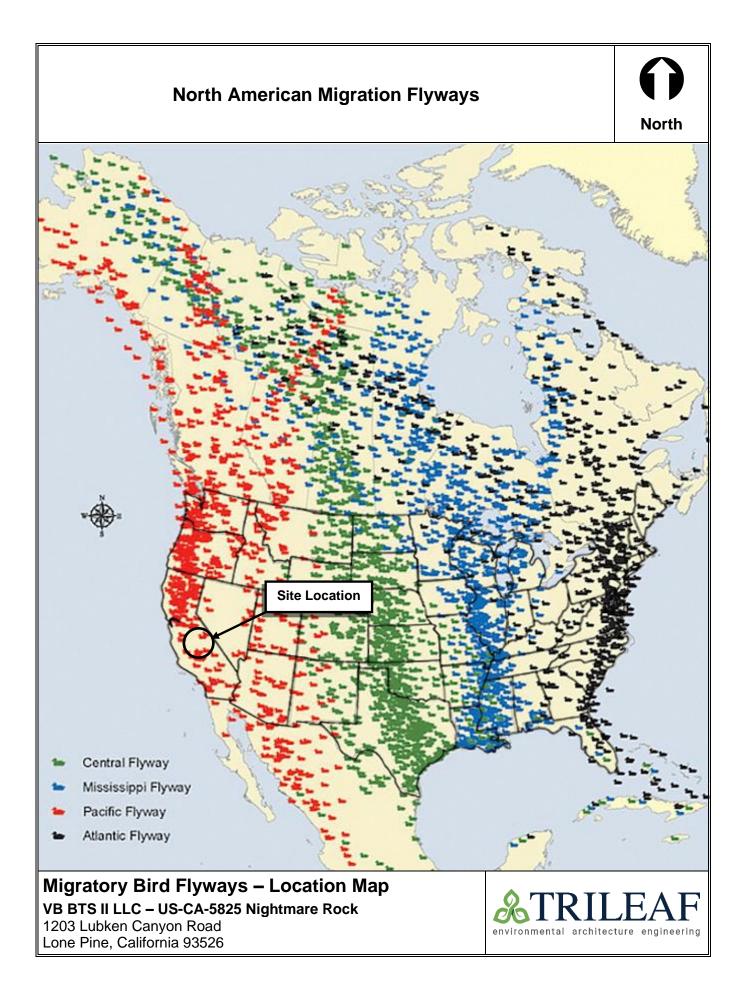


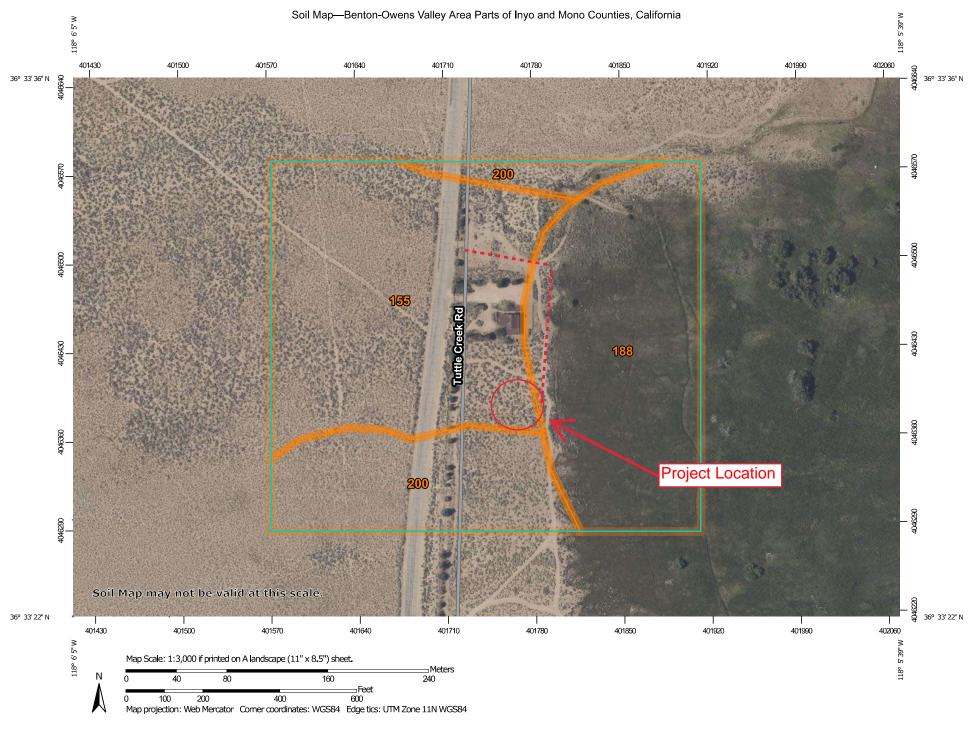
#### Legend



Basemap Imagery Source: USGS National Map 2023

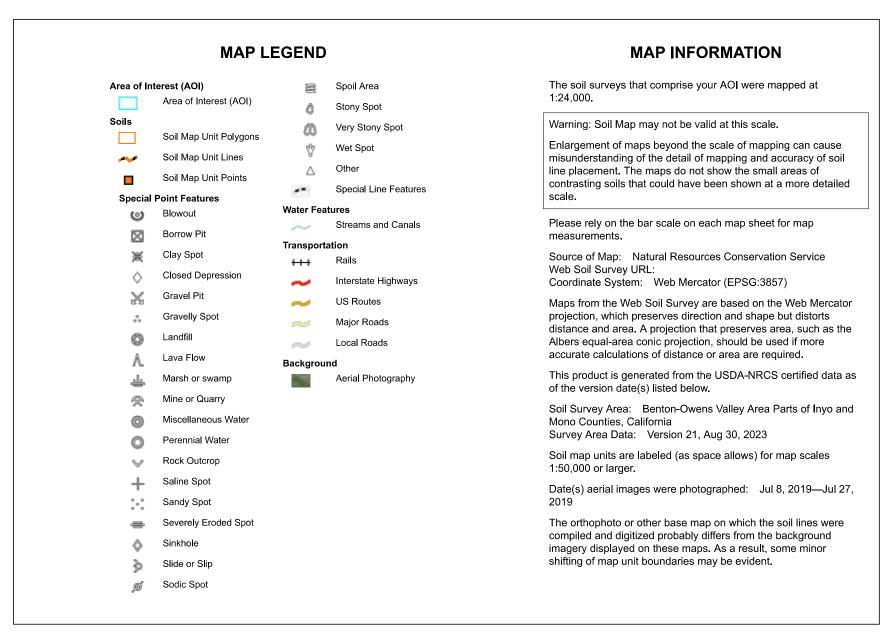






USDA Natural Resources

Conservation Service



Soil Map-Benton-Owens Valley Area Parts of Inyo and Mono Counties, California



# Map Unit Legend

r

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
155	Cartago gravelly loamy sand, 2 to 5 percent slopes	10.8	43.8%
188	Dehy-Conway-Lubkin association, 0 to 9 percent slopes	8.7	35.2%
200	Goodale-Cartago complex, 5 to 15 percent slopes	5.2	21.0%
Totals for Area of Interest		24.7	100.0%

## Benton-Owens Valley Area Parts of Inyo and Mono Counties, California

#### 200—Goodale-Cartago complex, 5 to 15 percent slopes

#### **Map Unit Setting**

National map unit symbol: jcwz Elevation: 3,700 to 5,500 feet Mean annual precipitation: 4 to 10 inches Mean annual air temperature: 57 to 61 degrees F Frost-free period: 150 to 200 days Farmland classification: Not prime farmland

#### **Map Unit Composition**

Goodale and similar soils: 55 percent Cartago and similar soils: 30 percent Minor components: 2 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Goodale**

#### Setting

Landform: Fan terraces, alluvial fans Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 12 inches: bouldery loamy coarse sand

*H2 - 12 to 60 inches:* stratified extremely stony very cobbly loamy coarse sand

#### **Properties and qualities**

Slope: 5 to 15 percent
Surface area covered with cobbles, stones or boulders: 8.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 1.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: A

USDA

*Ecological site:* R029XG010CA - Bouldery Fan 5-8" P.Z. *Hydric soil rating:* No

#### **Description of Cartago**

#### Setting

Landform: Fan terraces, alluvial fans Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 12 inches: gravelly loamy coarse sand
H2 - 12 to 42 inches: gravelly loamy coarse sand
H3 - 42 to 60 inches: very cobbly loamy coarse sand

#### **Properties and qualities**

Slope: 5 to 15 percent
Surface area covered with cobbles, stones or boulders: 2.0 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Very low (about 2.9 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6e Hydrologic Soil Group: A Ecological site: R029XG010CA - Bouldery Fan 5-8" P.Z. Hydric soil rating: No

#### **Minor Components**

#### Unnamed

Percent of map unit: 2 percent Landform: Drainageways Hydric soil rating: Yes

## Data Source Information

Soil Survey Area: Benton-Owens Valley Area Parts of Inyo and Mono Counties, California Survey Area Data: Version 21, Aug 30, 2023

## Benton-Owens Valley Area Parts of Inyo and Mono Counties, California

# 188—Dehy-Conway-Lubkin association, 0 to 9 percent slopes

#### **Map Unit Setting**

National map unit symbol: jcwk Elevation: 3,800 to 5,400 feet Mean annual precipitation: 4 to 10 inches Mean annual air temperature: 55 to 61 degrees F Frost-free period: 150 to 200 days Farmland classification: Prime farmland if irrigated and drained

#### **Map Unit Composition**

Dehy and similar soils: 30 percent Conway and similar soils: 25 percent Lubkin and similar soils: 20 percent Minor components: 5 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Dehy**

#### Setting

Landform: Fan terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 4 inches: loam
H2 - 4 to 10 inches: sandy loam
H3 - 10 to 26 inches: gravelly sandy loam
H4 - 26 to 36 inches: loamy sand
H5 - 36 to 60 inches: gravelly loamy sand

#### **Properties and qualities**

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat poorly drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 24 to 36 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.9 inches)

USDA

#### Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 6w Hydrologic Soil Group: C Ecological site: R029XG002CA - Saline Meadow Hydric soil rating: No

#### **Description of Conway**

#### Setting

Landform: Alluvial fans Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 8 inches: loam H2 - 8 to 23 inches: very fine sandy loam

H3 - 23 to 60 inches: sandy loam

#### **Properties and qualities**

Slope: 0 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 0 to 12 inches
Frequency of flooding: Frequent
Frequency of ponding: None
Available water supply, 0 to 60 inches: Moderate (about 8.5 inches)

#### Interpretive groups

Land capability classification (irrigated): 5w Land capability classification (nonirrigated): 6w Hydrologic Soil Group: B/D Ecological site: R029XG001CA - Wet Meadow Hydric soil rating: Yes

#### **Description of Lubkin**

#### Setting

Landform: Fan terraces Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 5 inches: gravelly loamy sand



H2 - 5 to 26 inches: very stony sandy loam H3 - 26 to 46 inches: very cobbly loamy sand H4 - 46 to 60 inches: very gravelly loamy sand

#### **Properties and qualities**

Slope: 2 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

#### Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 6e Hydrologic Soil Group: A Ecological site: R029XG018CA - Gravelly Loamy Sand 5-8" P.Z. Hydric soil rating: No

#### **Minor Components**

#### Mountom

Percent of map unit: 5 percent Landform: Alluvial fans Hydric soil rating: Yes

## **Data Source Information**

Soil Survey Area: Benton-Owens Valley Area Parts of Inyo and Mono Counties, California Survey Area Data: Version 21, Aug 30, 2023

## Benton-Owens Valley Area Parts of Inyo and Mono Counties, California

#### 155—Cartago gravelly loamy sand, 2 to 5 percent slopes

#### Map Unit Setting

National map unit symbol: jcvh Elevation: 3,800 to 4,400 feet Mean annual precipitation: 6 to 8 inches Mean annual air temperature: 57 to 61 degrees F Frost-free period: 150 to 200 days Farmland classification: Prime farmland if irrigated

#### **Map Unit Composition**

Cartago and similar soils: 85 percent Minor components: 1 percent Estimates are based on observations, descriptions, and transects of the mapunit.

#### **Description of Cartago**

#### Setting

Landform: Alluvial fans Landform position (two-dimensional): Backslope Landform position (three-dimensional): Tread Down-slope shape: Linear Across-slope shape: Linear Parent material: Alluvium derived from granite

#### **Typical profile**

H1 - 0 to 14 inches: gravelly loamy sand
H2 - 14 to 33 inches: very gravelly loamy sand
H3 - 33 to 53 inches: gravelly sandy loam
H4 - 53 to 60 inches: loamy fine sand

#### **Properties and qualities**

Slope: 2 to 5 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: Rare
Frequency of ponding: None
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

#### Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 6e Hydrologic Soil Group: A Ecological site: R029XG018CA - Gravelly Loamy Sand 5-8" P.Z.

USDA

Hydric soil rating: No

#### **Minor Components**

#### Unnamed

Percent of map unit: 1 percent Landform: Drainageways Hydric soil rating: Yes

## **Data Source Information**

Soil Survey Area: Benton-Owens Valley Area Parts of Inyo and Mono Counties, California Survey Area Data: Version 21, Aug 30, 2023



# Appendix D

Qualifications



# **& TRILEAF**

Professional Resume

# SAMANTHA NEARY, M.S.

SENIOR PROJECT SCIENTIST

#### Education

Biology, M.S. / Emphasis in Marine Ecology San Diego State University / San Diego, CA

Zoology, B.S. / Emphasis in Limnology University of Wisconsin-Madison / Madison, WI

#### Areas of Expertise

Ms. Neary has experience performing National Environmental Policy Act (NEPA) reviews for wireless telecommunications projects.

Environmental service expertise includes:

Phase I/II Environmental Site Assessments Property Condition Assessments (PCA) Indoor Air Quality Assessments National Wetland Inventory Maps Flood Insurance Rate Maps Critical Habitat Maps Environmental Evaluation Summaries Soil Characterization Field Reconnaissance Section 106 Compliance NEPA Environmental Assessments Migratory Bird Evaluations Form 620/621 Submittals Historical Topographic Maps and Aerial Imagery Mold and Lead-Based Paint Surveys Local Government Consultation Land Use History

#### **Certifications/Affiliations**

OSHA 40-Hour HAZWOPER Western Society of Naturalists, member since 2016 American Academy of Underwater Scientists, member since 2017 AAUS Certified Scientific Diver Adult First Aid/CPR/AED/O<sub>2</sub>



Professional Resume

# BRANDY MOSS

PROJECT MANAGER II

#### Education

B.S. Environmental Technology Management Arizona State University/ Mesa, AZ

#### Areas of Expertise

Ms. Brandy Moss has experience performing site inspections and conducting due diligence pursuant to EPA All Appropriate Inquiries (AAI) and the American Society of Testing and Materials (ASTM), as well as performing National Environmental Policy Act (NEPA) reviews for commercial real estate, lending, and wireless telecommunications projects. Ms. Moss operates as the primary point-of-contact for clients over a large geography, specializing within the Western Region of the United States.

Environmental service expertise includes:

Asbestos Inspections	Preliminary Risk Assessments
Construction Environmental Oversight	Records Search with Risk Assessment (RSRA)
Environmental Evaluation Summaries	SBA Loans
FCC Regulatory Compliance	Soil and Groundwater Management Plans
Health and Safety Plans	Soil Characterization
Migratory Bird Evaluations	Soil Management and Disposal
Native American Consultation	Transaction Screen Assessments
NEPA Environmental Assessments	Waste and Recycling Implementation and Planning
Phase I/II Environmental Site Assessments	Vendor Management
NEPA Environmental Assessments	

Additionally, Ms. Moss has experience in conservation and water monitoring at ASARCO Ray Mine, along with waste and recycling implementation for Gila River Gaming Enterprises (GRGE). Ms. Moss has specialized experience performing, planning, and managing Phase I and Phase II Environmental Assessments for various commercial, industrial, agricultural, and residential properties.

#### **Certifications/Affiliations**

Adult Child Infant CARE CPR & First Aid Certification Burrowing Owl Survey Certification, U.S. Fish and Wildlife Service and Arizona Game and Fish Certified Asbestos Building Inspector – (EPA License #CA-089-05) Environmental Professional (EP) as defined by ASTM Standard E1527-21 (AAI) OSHA 40-Hour HAZWOPER