ER 13362

NOTICE OF EXEMPTION

TO: Office of Planning and Research 1400 Tenth Street Sacramento, CA 95814

FROM: Department of Parks and Recreation 1416 Ninth Street P.O. Box 942896 Sacramento, CA 94296-0001

PROJECT TITLE: USGS Earthquake Early Detection Warning Station (20/21-IE-08)

LOCATION: Chino Hills State Park **COUNTY:** Riverside

DESCRIPTION OF THE NATURE AND PURPOSE OF PROJECT: Purpose of the project is installation by USGS of one Earthquake Early Warning System station in Chino Hills State Park (latitude 33.910908, longitude -117.683528) to provide advance warnings that will allow people and systems to take actions to protect life and property from destructive shaking. The station will occupy a 20' wide by 20' long footprint. See Exhibit A – Plan Drawings.

The station will be solar powered, will not generate noise, will not impede public access to surrounding areas, is low profile, and is encapsulated to prevent animal damage. Construction will occur over 3-4 days. Installation and maintenance to occur only when no threat to sensitive species. State Parks anticipates no water table interaction or soil erosion to occur. No closure to roads is necessary. No new roads or access routes are necessary. Minor vegetation removal from excavation activity would be limited to annual grasses. See Exhibit B – Site Photo.

PUBLIC AGENCY APPROVING THE PROJECT: California Department of Parks and Recreation

NAME OF DIVISION OR DISTRICT CARRYING OUT THE PROJECT: Inland Empire

EXEMPT STATUS:	
☐ Declared Emergency (Sect	tion 15269(a))
☐ Emergency Project (Sectio	n 15269(b) and (c))
☐ Statutory Exemption (Section)	on)
□ Categorical Exemption	
Class: 5	Section: 15305 – Minor Alterations in Land Use Limitations

REASONS WHY PROJECT IS EXEMPT: No potential for significant impact to the environment is anticipated in compliance with CEQA §15300.4. If the project is implemented as indicated within the CDPR Project Evaluation Form, then it is exempt under CEQA §15305 – Minor Alterations to Land for both the installation activity and the Department's Right to Enter Permit process.

CONTACT: Harmony Gugino, Environmental Coordinator **PHONE NO.**: (951) 503-3376

Inland Empire District EMAIL: harmony.gugino@parks.ca.gov

Ryann Gill

Kelly Elliott District Superintendent Inland Empire District

8/3/2021

DATE



Southern California Seismic Network SITE NAME: Chino Hills

PROJECT SUMMARY

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PROJECT OWNER USGS PASADENA 525 S Wilson Ave, Pasadena, CA 91106 PROJECT MANAGER MARCOS ALVAREZ

4721 Sapphire Rd, Chino Hills, CA 91709

SAN BERNADINO COUNTY, CALIFORNIA

OCCUPANCY GROUP:

UTILITY PROVIDER: SOLAR

2016 CBC OCCUPANCY GROUP: OCCUPANT LOAD: TYPE OF CONSTRUCTION: RISK CATEGORY:

FIRE RESISTANCE REQUIREMENTS: TABLE 601 - CONSTRUCTION TYPE B

CODE ANALYSIS

PROJECT DESCRIPTION

INSTALLATION OF SOLARCRAFT RADIO CABINET, SOLAR POWER SOURCE, AND 20'X20' FENCE ENCLOSURE

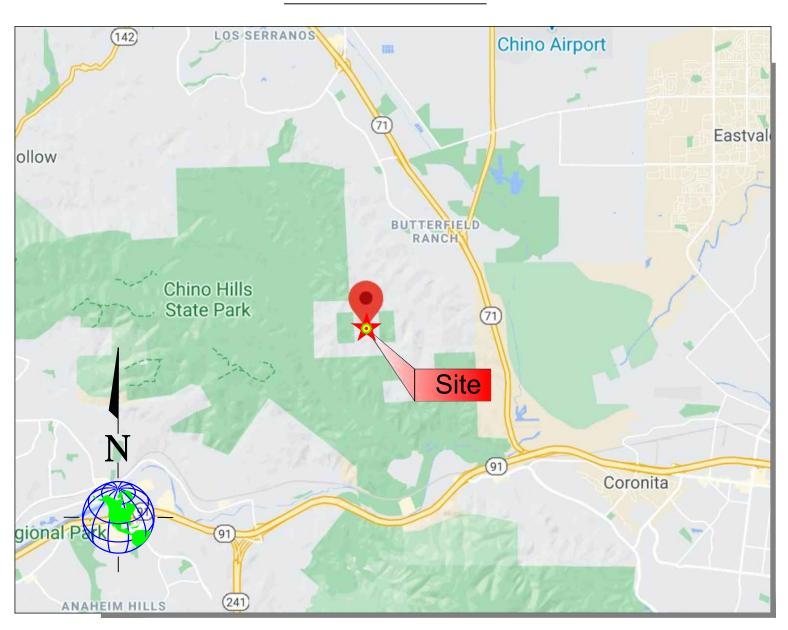
<u>LATITUDE</u>: 33°54'39.27"N 117°41'0.70"W

CONSULTING TEAM

PROJECT MANAGEMENT: GRAY DS INC. 8149 N. 87TH PLACE, SUITE 140 SCOTTSDALE, AZ 85258 PHONE: (602) 418-5316

CIVIL & STRUCTURAL ENGINEERING SERVICES: ABN ENGINEERING 1337 E DESERT FLOWER LANE PHOENIX, AZ 85048 (480) 213-8524 www.ABNENG.com

VICINITY MAP



LOCATION MAP



SHEET INDEX

SHEET NUMBER

G-1/1.1/1.2

SHEET DESCRIPTION TITLE SHEET, MAPS, & GENERAL INFORMATION STATE PARK MAP T-2STATE PARK MAP T-3SITE OVERVIEW A-1ENLARGED SITE PLAN A-2FOUNDATIONS AND TRENCH DETAILS A - 2.1A-2.2SOLAR CRAFT CABINET

GROUNDING INFORMATION

PRIME CONTRACTOR:

GRAY DS INC.

A & E DESIGN FIRM:

ENGINEERING SEAL:

3/15/21 REVISED DESCRIPTION DATE

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USGS PROJECT#

CHINO HILLS

SITE ADDRESS

33°54'39.27"N 117°41'0.70"W **ELEVATION**: 1080 AMSL

SHEET TITLE

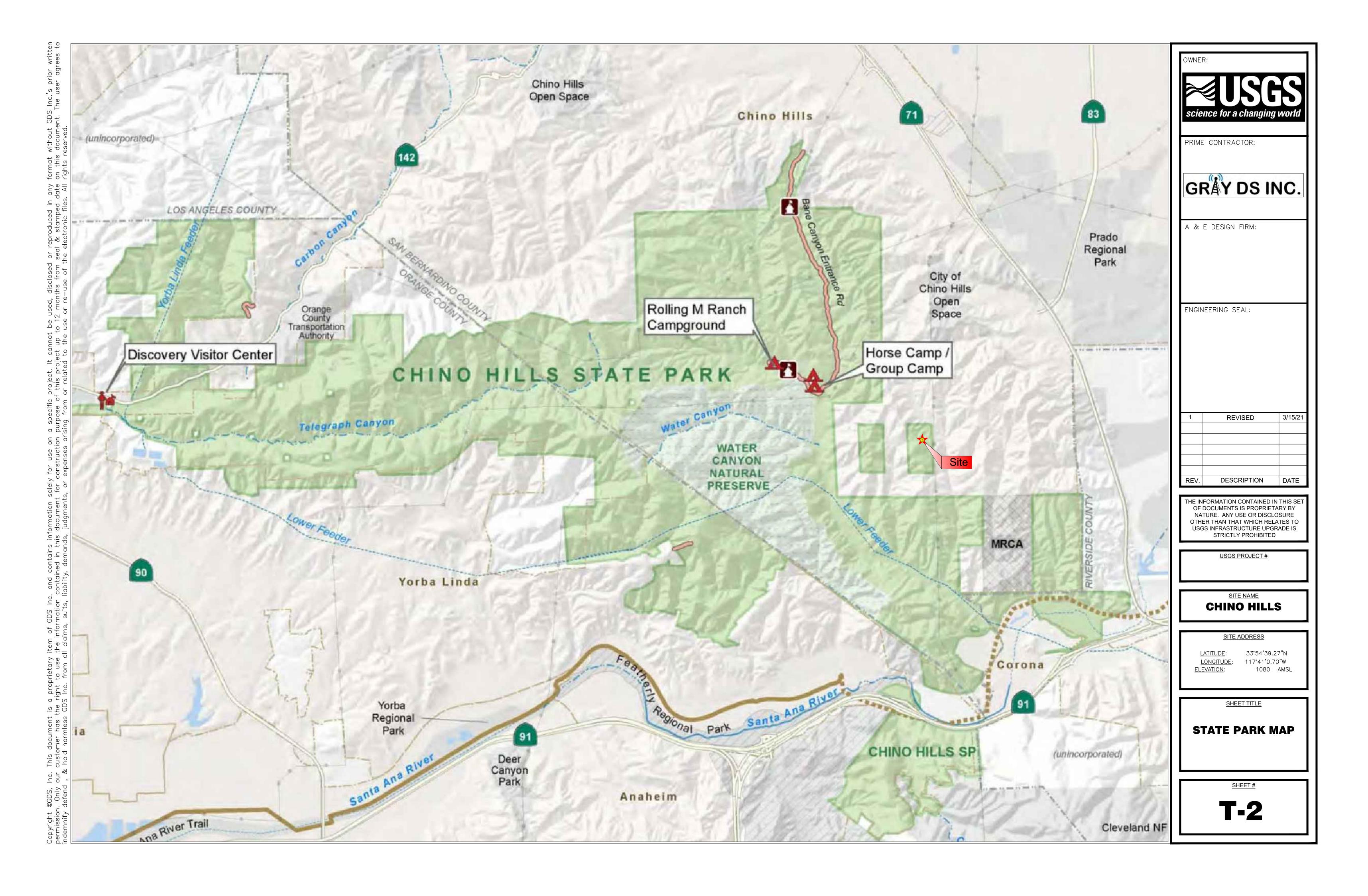
TITLE SHEET, MAP, **AND GENERAL IFNORMATION**

SHEET #

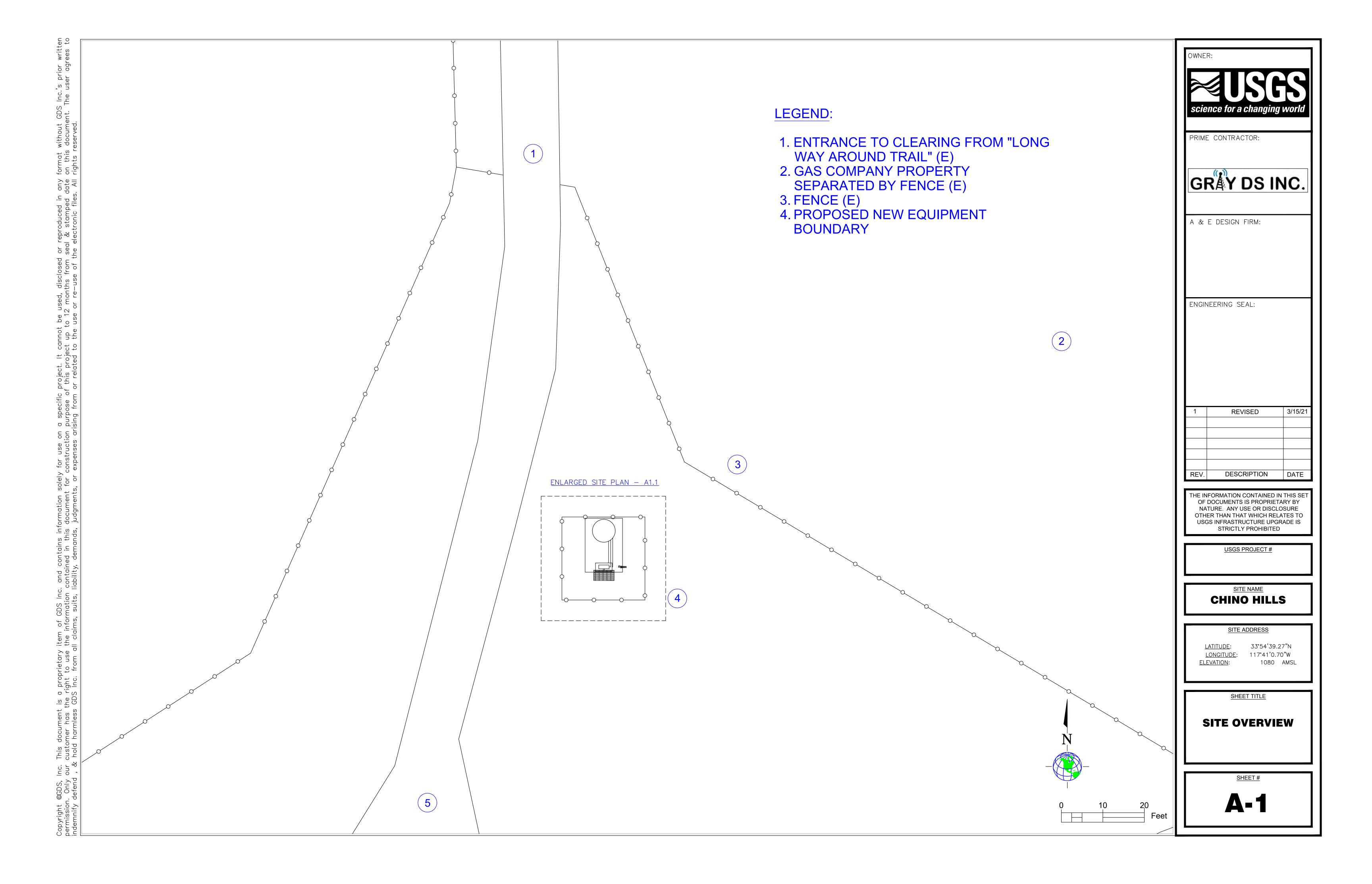
T-1

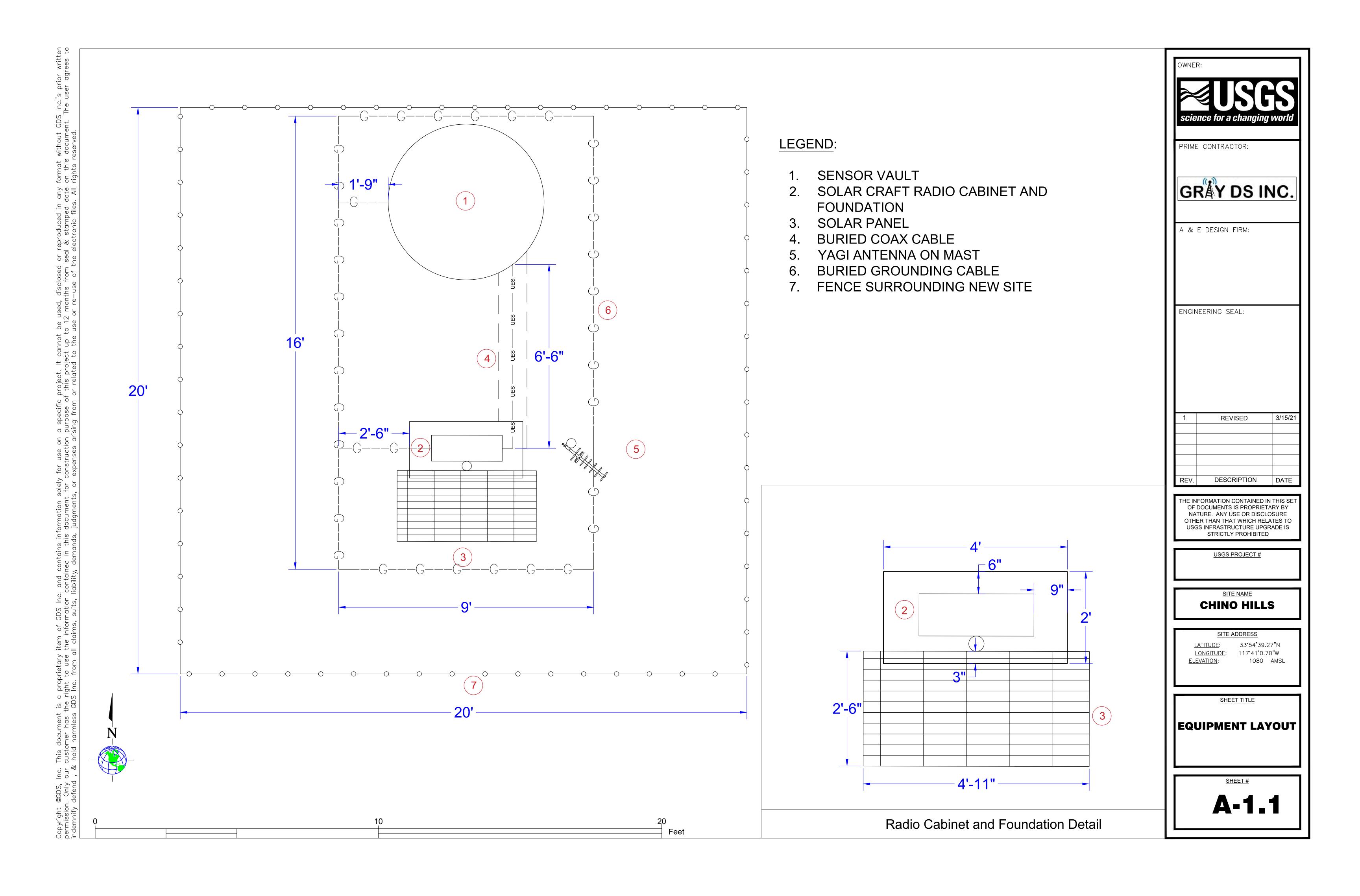
GEODETIC COORDINATES

<u>LONGITUDE</u>: **ELEVATION:** 1080 AMSL









OWNER:

Science for a changing world

PRIME CONTRACTOR:

A & E DESIGN FIRM:

ENGINEERING SEAL:

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DESCRIPTION

REVISED

3/15/21

USGS PROJECT#

SITE NAME

CHINO HILLS

SITE ADDRESS

<u>LATITUDE</u>: <u>LONGITUDE</u>: <u>ELEVATION</u>:

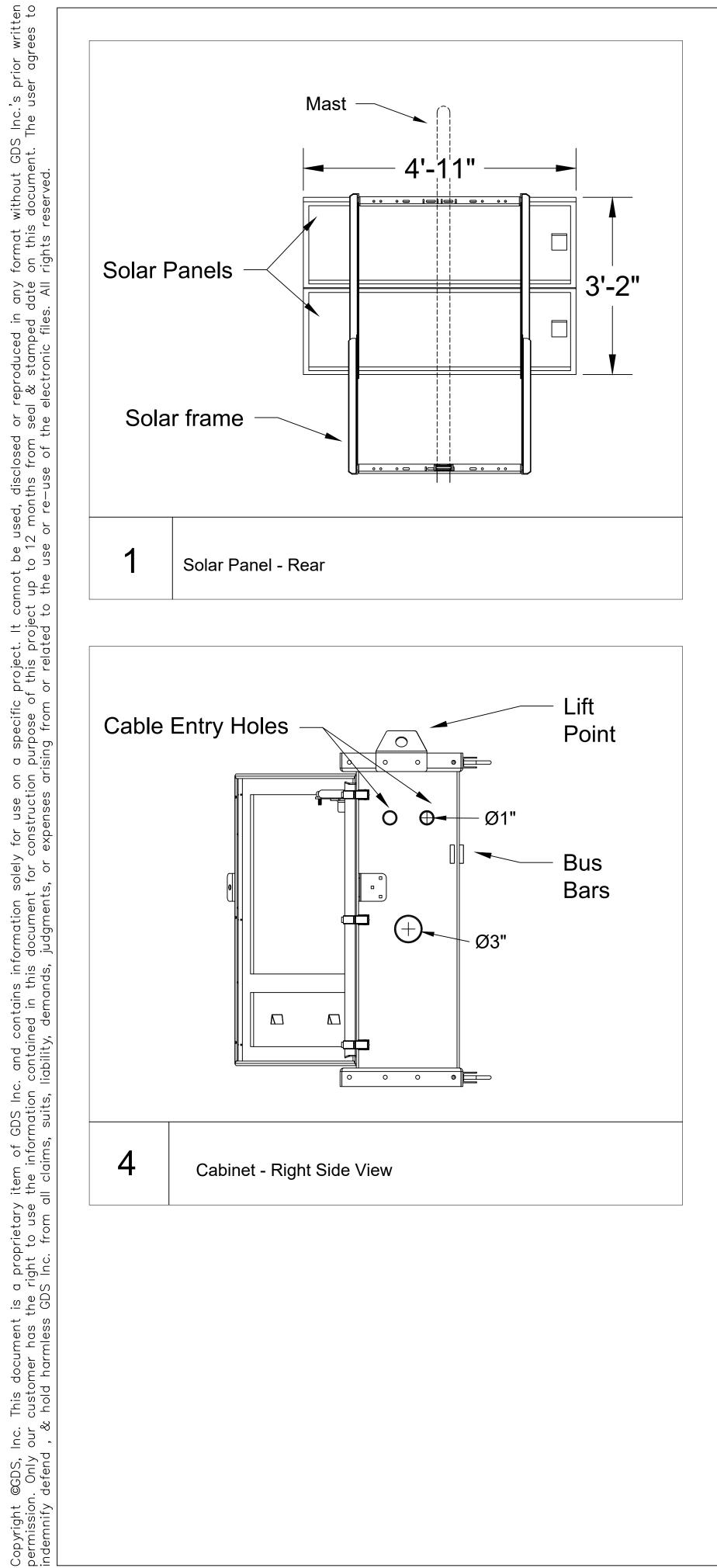
33°54'39.27"N 117°41'0.70"W 1080 AMSL

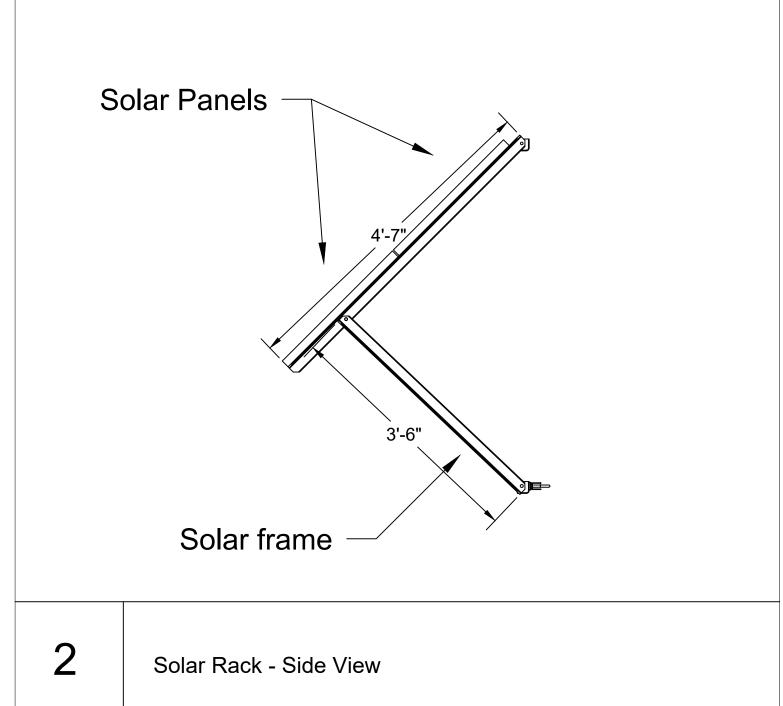
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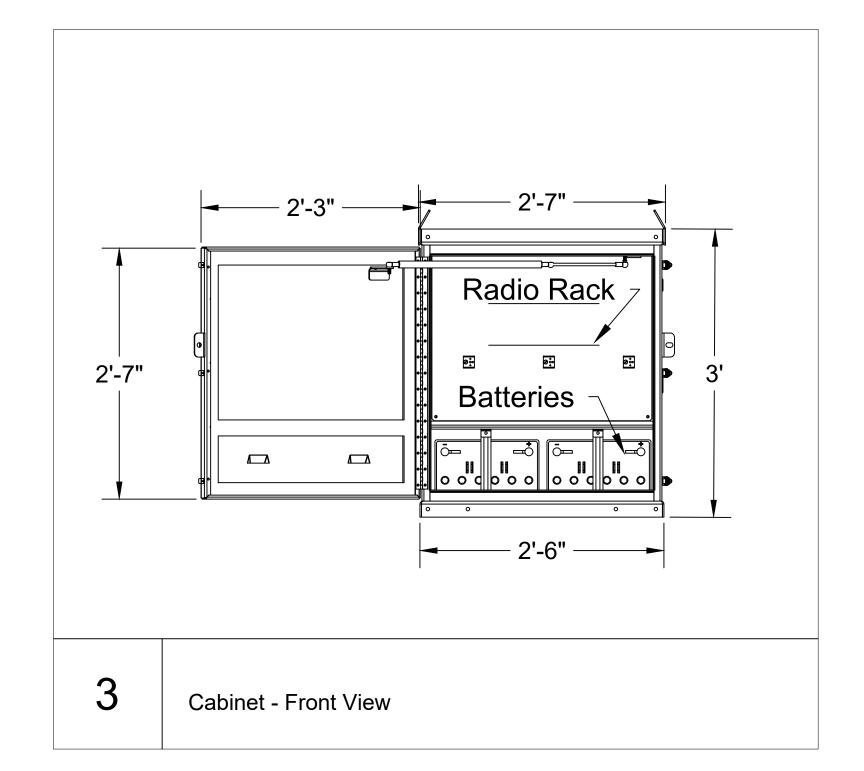
EQUIPMENT ELEVATION

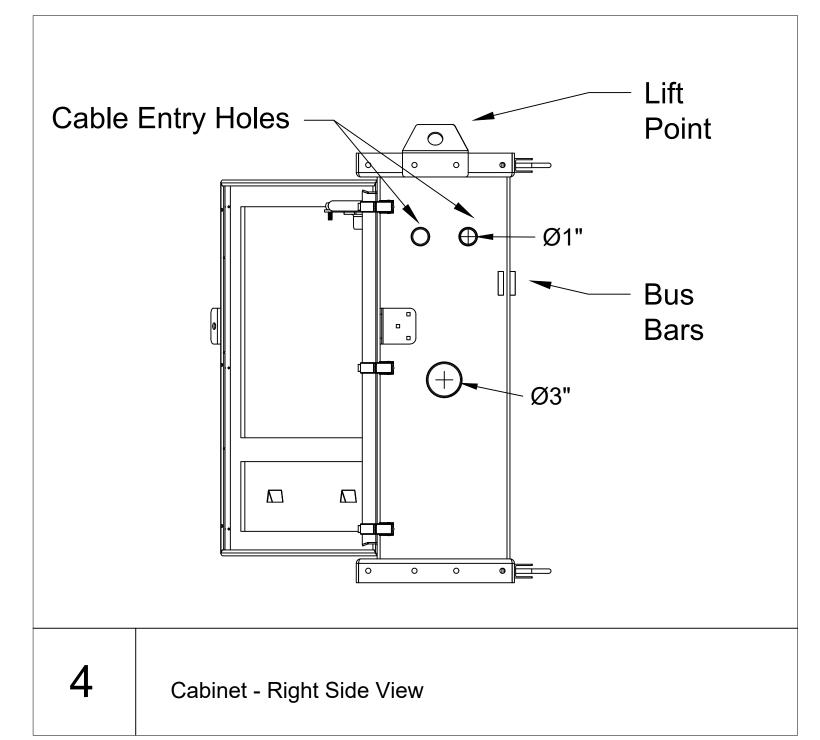
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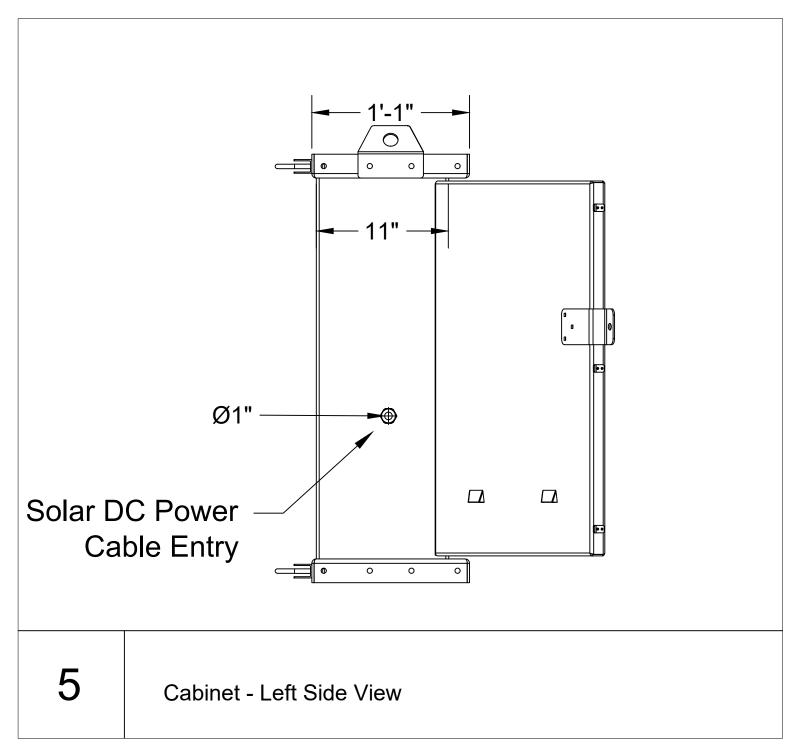
A2

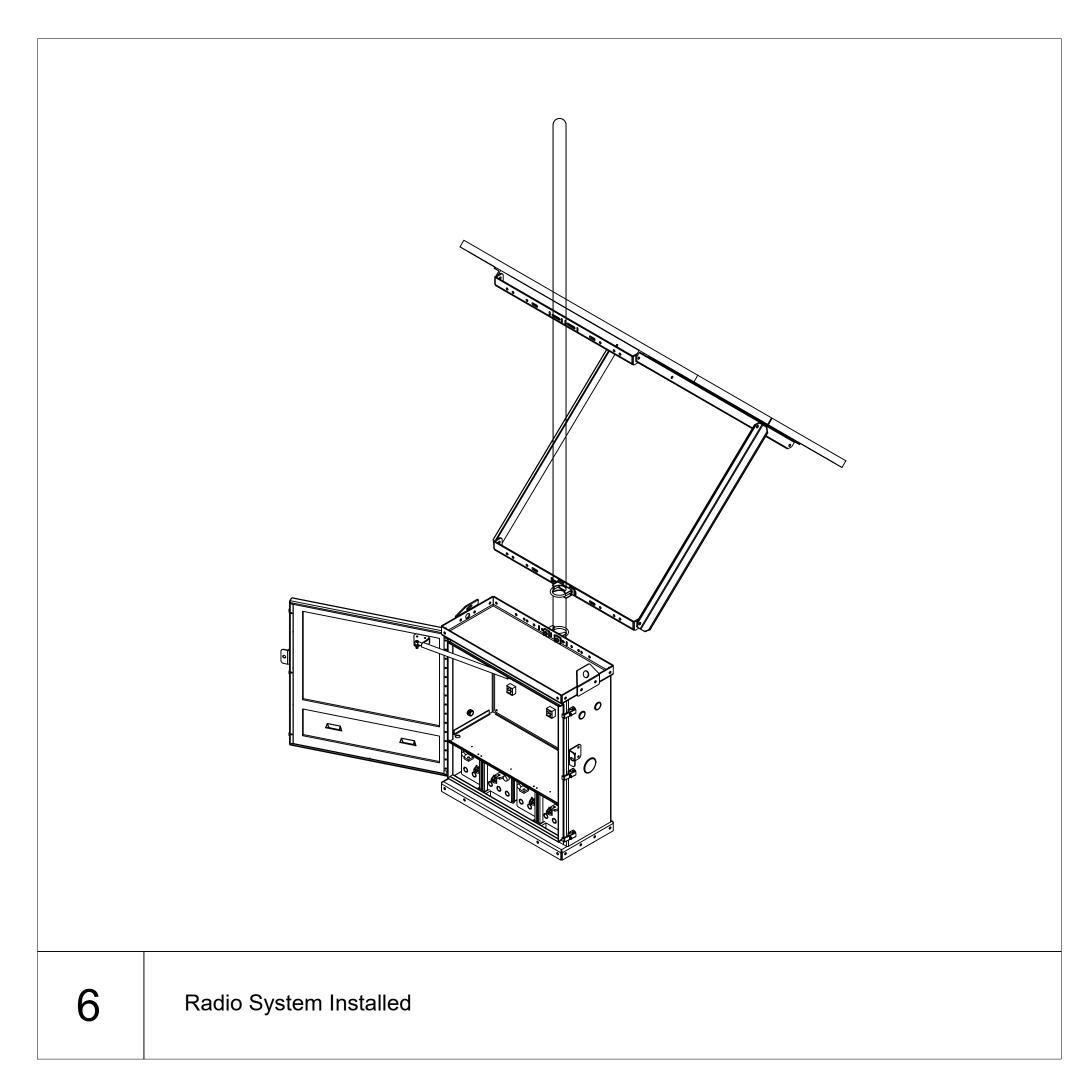


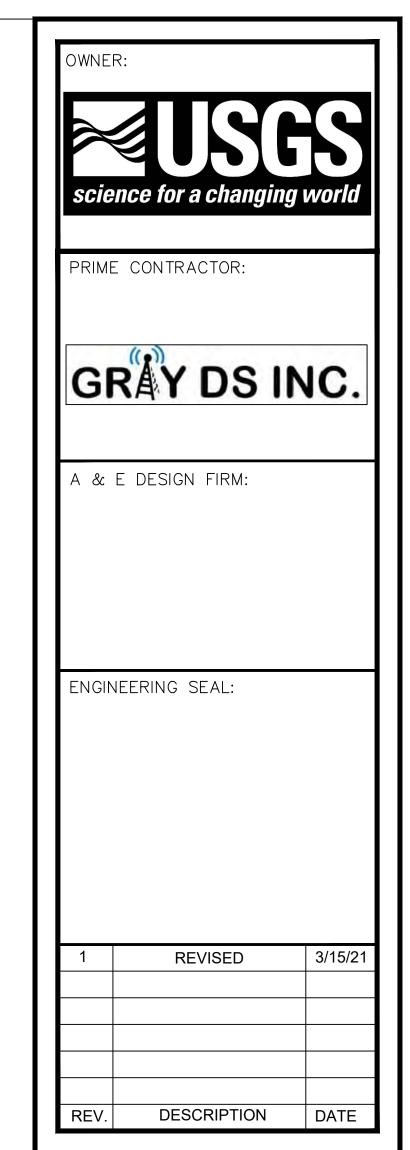












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USGS PROJECT#

CHINO HILLS

SITE ADDRESS

33°54'39.27"N 117°41'0.70"W 1080 AMSL LONGITUDE: **ELEVATION**:

SHEET TITLE

CABINET DETAIL

SHEET#

A2.1

COAXIAL CABLE TRENCH KEYED NOTES:



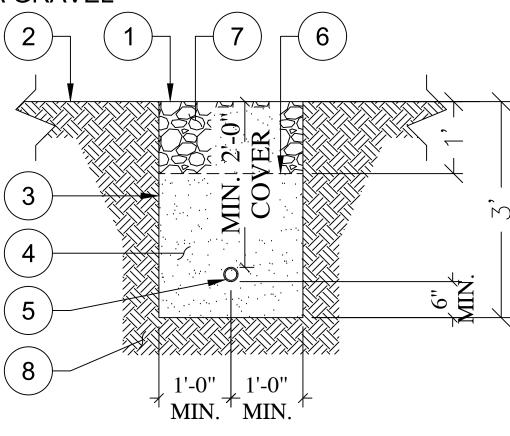
- 1. MATCH EXISTING SURFACE
- 2. FINISHED GRADE

date on this

- 3. VERTICAL DEPTH W/O SHORING PER GOVERNING CODES
- 4. BACKFILL WITH CLEAN GRANULAR FILL SAND
- 5. (1) 4" PVC SCH. 80 GALVANIZED RIDGID HIGH VOLTAGE POWER CONDUIT
- 6. 6" WIDE UTILITY WARNING TAPE 12" ABOVE CONDUIT
- 7. COMPACTED SELECT, ROCK FREE BACKFILL (SUITABLE ON SITE MATERIAL) OR SAND OR PEA GRAVEL

DEPENDING ON SITE CONDITIONS.

8. UNDISTURBED SOIL



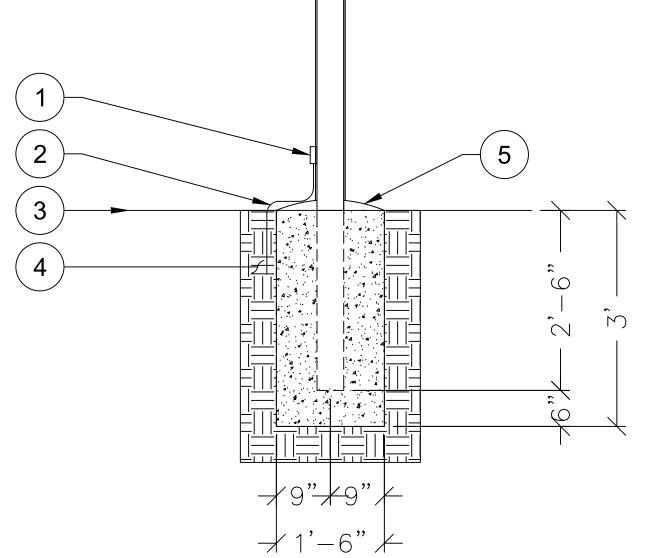
COAXIAL CABLE TRENCH DETAIL

MAST FOUNDATION DETAIL

MAST FOUNDATION KEYED NOTES:

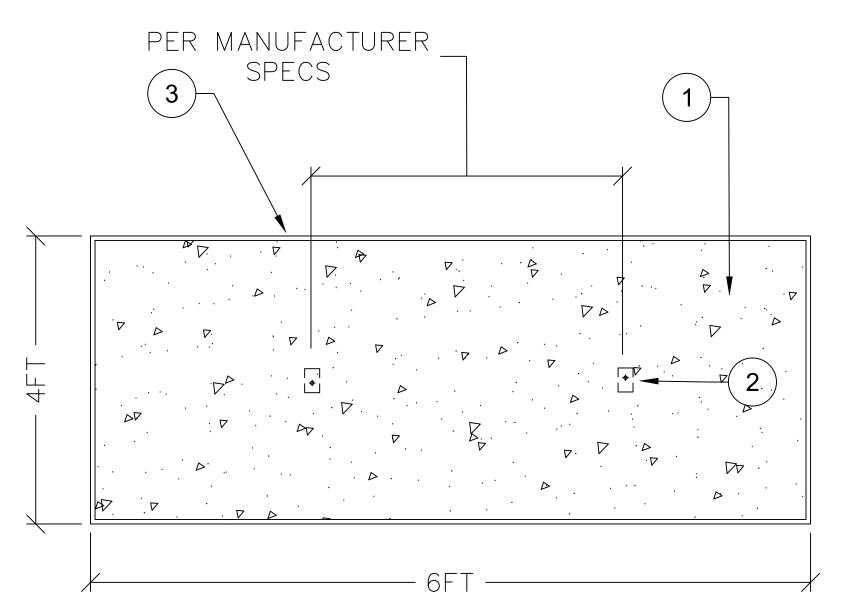


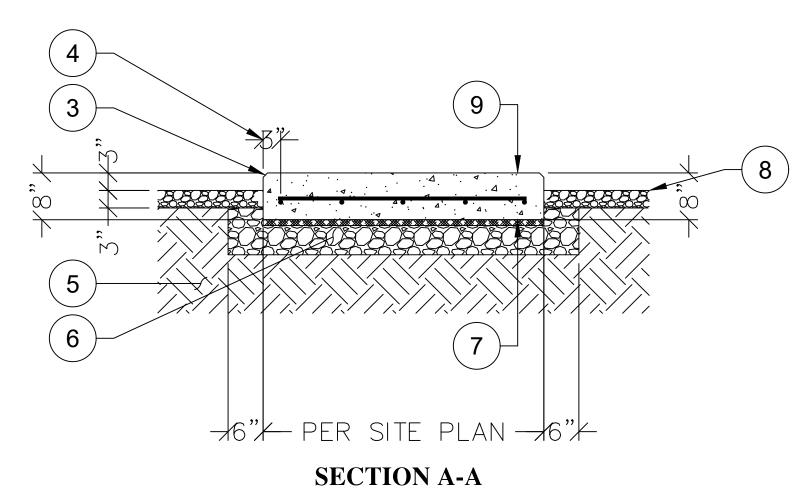
- . EXOTHERMIC WELD TO STEEL MAST
- 2. #2 AWG SOLID TINNED BARE COPPER CONDUCTOR TO GROUND RING
- 3. FINISHED GRADE
- 4. NATURAL SOIL
- 5. CAP FOR WATERSHED



TYPICAL CONCRETE SLAB DETAIL KEYED NOTES:

- 1. $\frac{3}{4}$ "Ø HOLES (TYP. OF 4)
- 2. $\frac{3}{4}$ " CHAMFER EDGE (TYP.)
- 3. 3" REINFORCEMENT CLEÁRANCE FROM SLAB PERIMETER
- 4. NATURAL SOIL
- 5. 6" THK. MIN. CRUSHED STONE OR COMPACTED GRANULAR FILL
- 6. USE 6 MM PLASTIC MOISTURE BARRIER
- 7. FINISHED GRADE LEVEL
- 8. 8" THK. SLAB WITH #4 @12" O.C. EACH WAY; SLAB FINISH 4" ABOVE FINISHED GRADE





RADIO CABINET FOUNDATION NOTES:

- 1. VERIFY DIMENSIONS WITH CABINET MANUFACTURER ALONG WITH LOCATION OF BASE FRAME CONNECTIONS.
- 2. REMOVE ALL LOOSE INORGANIC OR UNSUITABLE SOIL TO UNDISTURBED BEARING STRATA W/ ALLOWABLE SOIL BEARING PRESSURE OF 2500 PSF.
- 3. CONCRETE STRENGTH SHALL BE 4000 PSI, MIN.
- 4. SUB-GRADE SHALL BE COMPACTED 95% AND INDEPENDENTLY TESTED.

OWNER:

State of the second of

A & E DESIGN FIRM:

ENGINEERING SEAL:

1 REVISED 3/15/21

REV. DESCRIPTION DATE

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USGS PROJECT#

SITE NAME
CHINO HILLS

SITE ADDRESS

<u>LATITUDE</u>: 33°54'39.27"N <u>LONGITUDE</u>: 117°41'0.70"W <u>ELEVATION</u>: 1080 AMSL

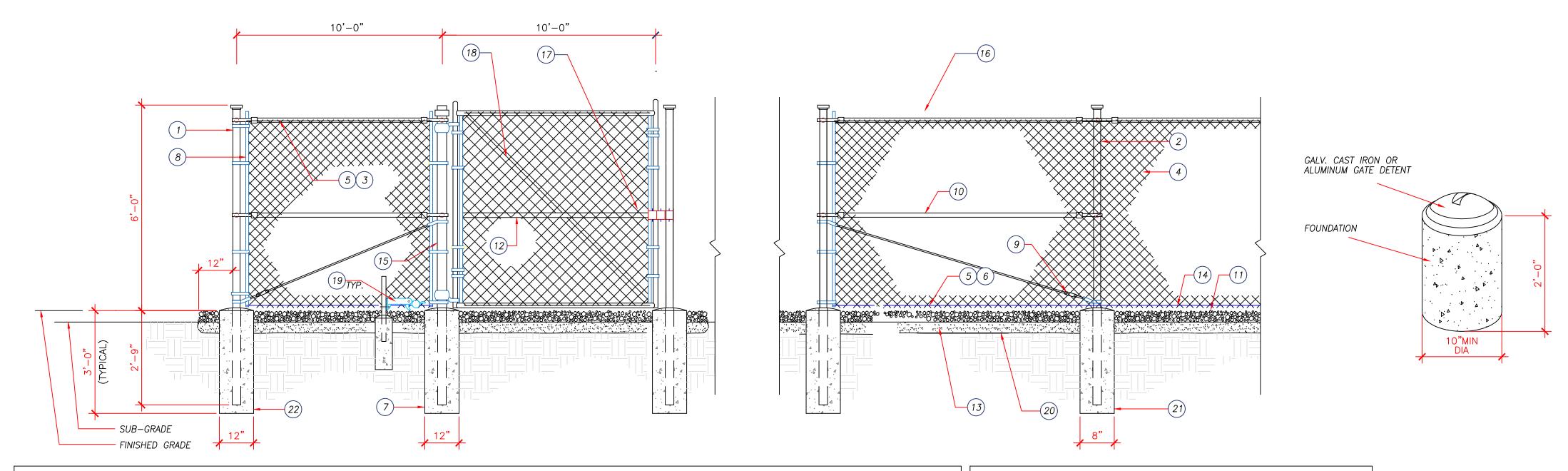
SHEET TITLE

FOUNDATION DETAIL

SHEET#

A2.2

CONCRETE FOUNDATION DETAIL



(21) LINE POST: CONCRETE FOUNDATION (2000 PSI)

(22) CORNER POST: CONCRETE FOUNDATION (2000 PSI)

KEYED NOTES:

- (1) CORNER, END OR PULL POST 3" NOMINAL SCHEDULE 40 (8) STRETCHER BAR.
- 2 LINE POST: 2 1/2" SCHEDULE 40 PIPE, PER ASTM-F1083. LINE POSTS SHALL BE EQUALLY SPACED AT MAXIMUM 8'-0" O.C.
- TOP RAIL & BRACE RAIL: 1 1/2" PIPE, PER ASTM-F1083.
- FABRIC: 9 GA. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- 5 TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE AND AT TENSION WIRE BY HOG- RINGS SPACED MAX. 24" INTERVALS.
- (6) TENSION WIRE: 9 GA. GALVANIZED STEEL.
- 7 GATE POST: CONCRETE FOUNDATION (2000 PSI)

- 9 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD.
- 10 FENCE CORNER POST BRACE: 1 5/8" DIA. EACH CORNER 20 GEOTEXTILE FABRIC. EACH WAY.
- (11) 1 1/2" MAXIMUM CLEARANCE FROM GRADE. (12) GATE BRACE: 1 5/8" DIA. BOTH SIDES
- (13) 4" THICK COMPACTED 95% MINUS 3/4" BASE MATERIAL
- (14) FINISHED GRADE SHALL BE UNIFORM AND LEVEL.
- 15 GATE POST 4". SCHEDULE 40 PIPE, FOR GATE WIDTHS UP TO 7 FEET USE SINGLE SWING GATE, 14 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083.
- (16) GATE FRAME: 1 1/2" PIPE, PER ASTM-F1083.
- (17) LOCKING DEVICE

GENERAL NOTES:

- (18) GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE. 1. INSTALL FENCING PER ASTM F-567.
- 19 DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION. 2. INSTALL SWING GATES PER ASTM F-900.
 - 3. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 1 1/2" GALV. (HOT DIP, ASTM A120 GRADE "A" STEEL). ALL GATE FRAMES SHALL BE WELDED. ALL WELDING SHALL BE COATED WITH (3) COATS OF COLD GALV. (OR EQUAL).
 - 4. ALL OPEN POSTS SHALL HAVE END-CAPS.
 - 5. USE GALVANIZED HOG-RING WIRE TO MOUNT ALL SIGNS.
 - 6. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC.

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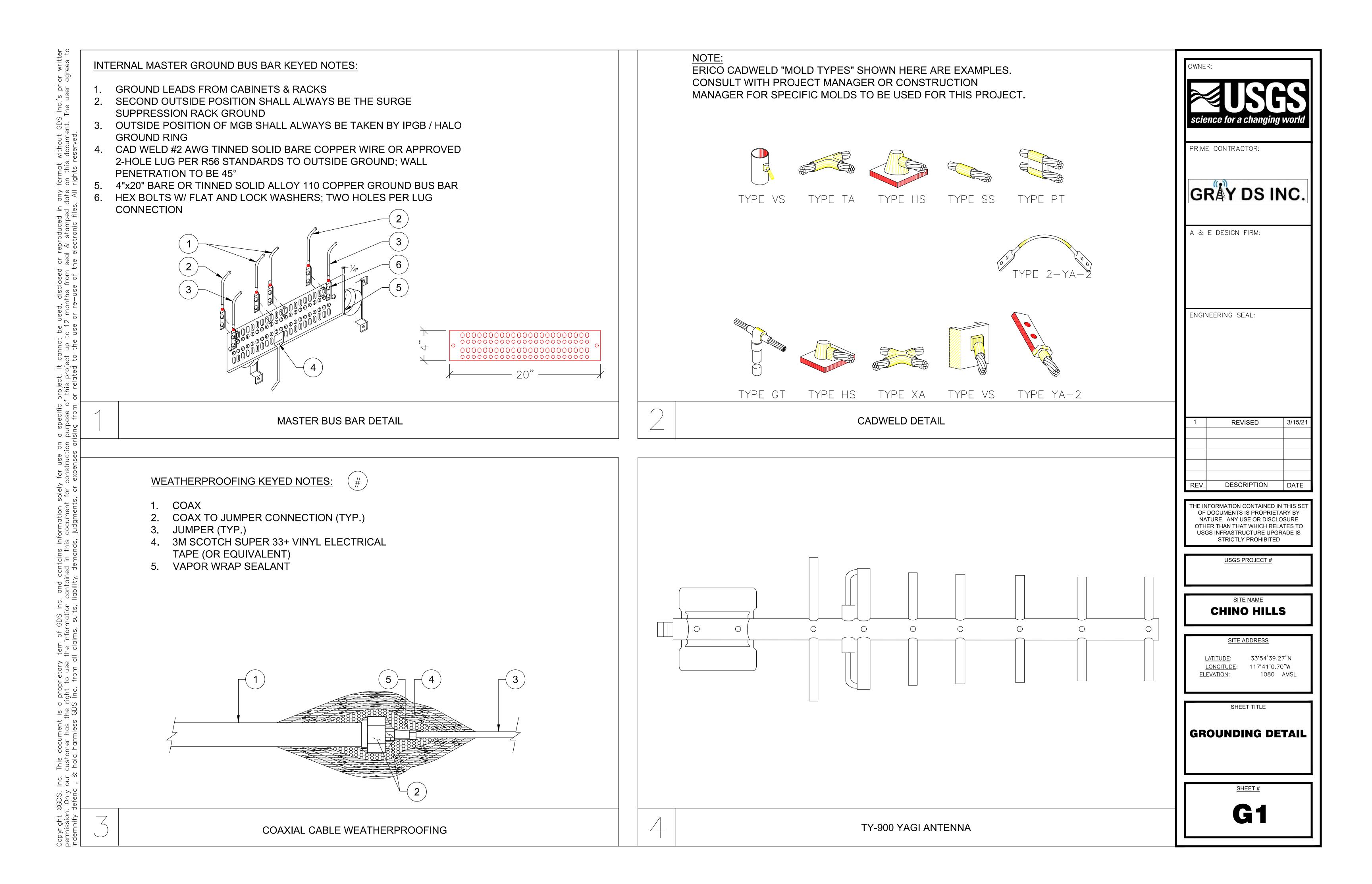
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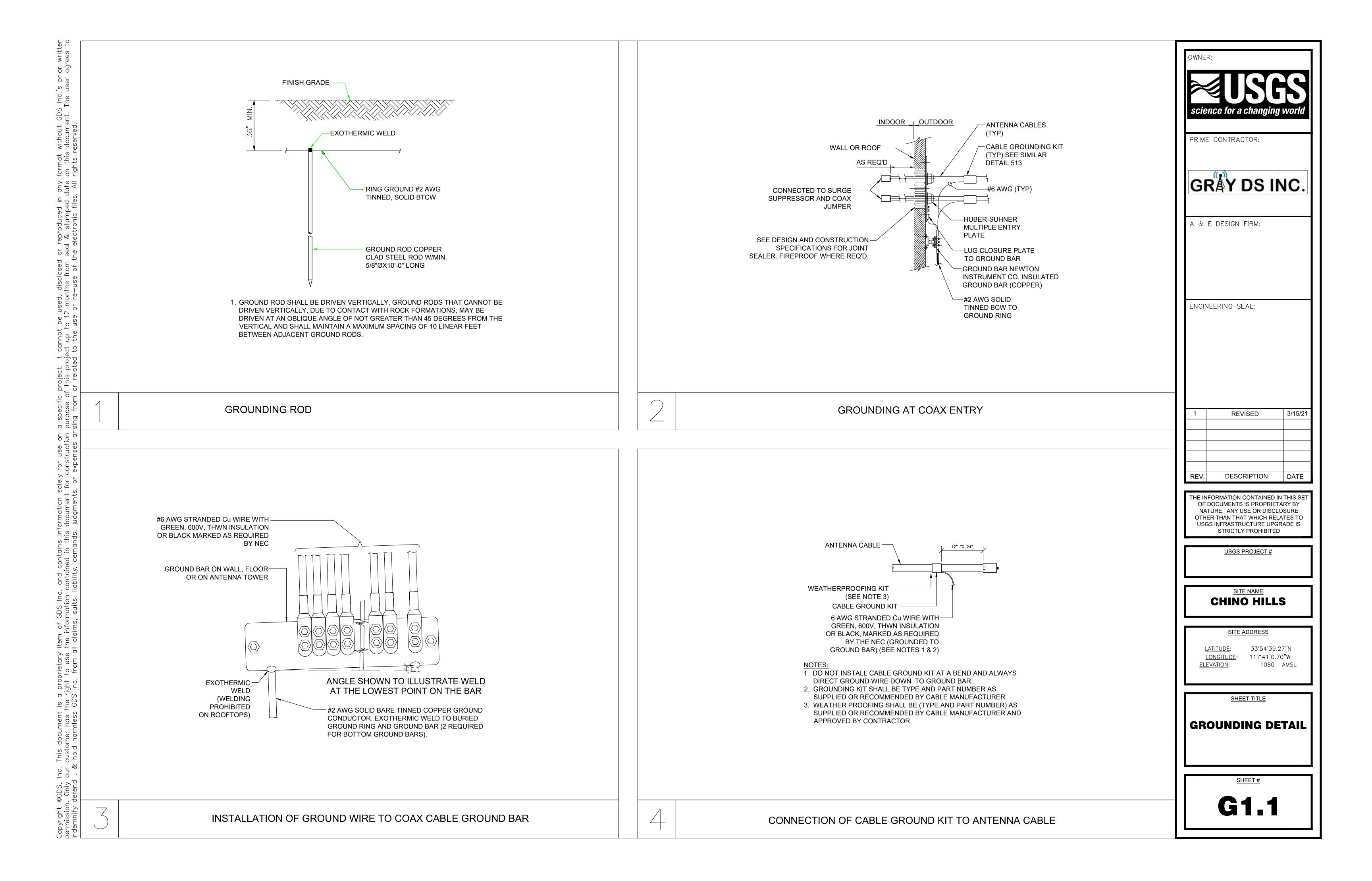
33°54'39.27"N <u>LATITUDE</u>: LONGITUDE: 117°41'0.70"W 1080 AMSL ELEVATION:

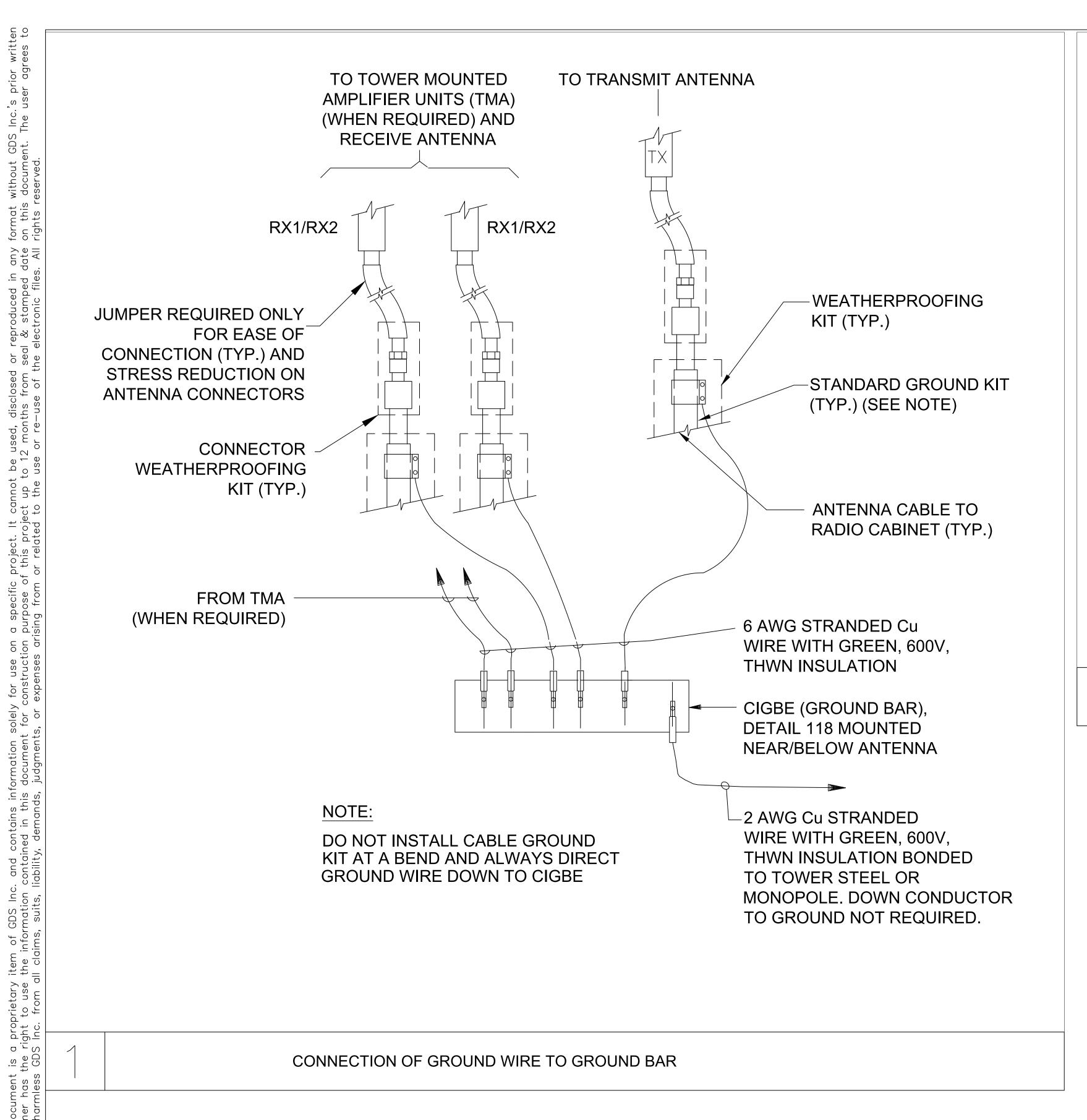
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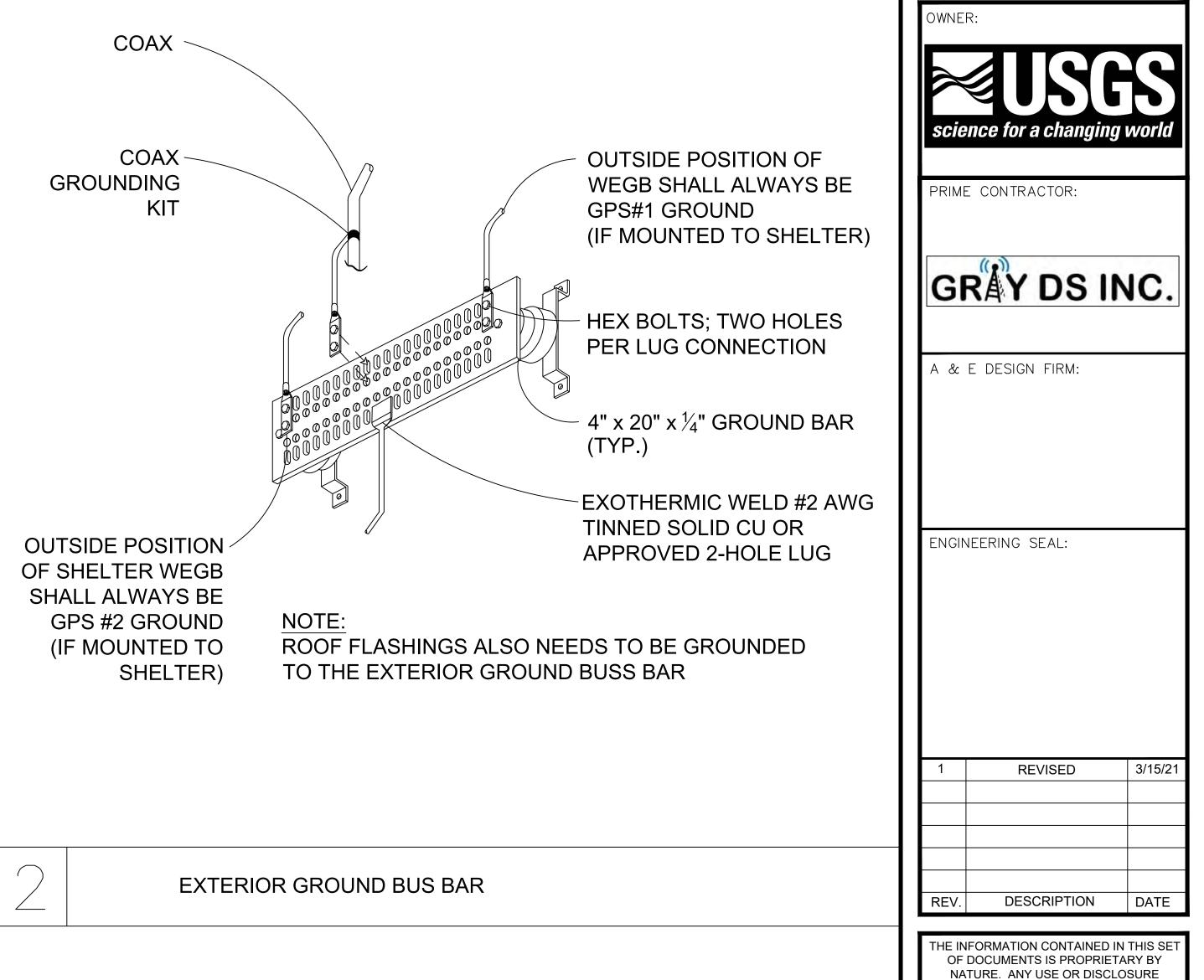
FENCE DETAIL

SHEET#









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SHEET TITLE

GROUNDING DETAIL

SHEET#

G1.2



Exhibit B – Site location, facing north.