



GOLDEN FOOTHILLS

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585
MDG LOCATION ID: 5000063898
PROJECT ID: 16870411

Issued For:

**GOLDEN
FOOTHILLS**

4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR

verizon

2770 SHADELANDS DRIVE, BUILDING 11
WALNUT CREEK, CA 94598

Vendor:

EPIC
WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID: 5000063898

PROJECT ID: 16870411

DRAWN BY: -

CHECKED BY: J. GRAY

APPROVED BY: -

PROJECT DESCRIPTION

A (N) VERIZON WIRELESS UNMANNED TELECOMMUNICATION FACILITY CONSISTING OF INSTALLING:

- (N) VERIZON WIRELESS 9'-5"x19'-0" (179 SQ FT) LEASE AREA
- (N) MONOPINE
- (9) (N) & (3) (F) ANTENNAS
- (6) (N) & (3) (F) RADIOS @ ANTENNAS
- (4) (N) RAYCAP 6627 SURGE SUPPRESSORS, (2) @ EQUIPMENT & (2) @ ANTENNAS
- (4) (N) 6X12 HYBRID CABLES
- (N) EQUIPMENT CABINETS
- (N) UTILITIES TO (N) SITE LOCATION



CODE COMPLIANCE

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

2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2022 CALIFORNIA BUILDING CODE (CBC), PART 2, VOLUME 1&2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2020 NATIONAL ELECTRICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE AND 2022 CALIFORNIA AMENDMENTS)
2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
ANSI/EIA-TIA-222-H

ALONG WITH ANY OTHER APPLICABLE LOCAL & STATE LAWS AND REGULATIONS

DISABLED ACCESS REQUIREMENTS

THIS FACILITY IS UNMANNED & NOT FOR HUMAN HABITATION. DISABLED ACCESS & REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA STATE BUILDING CODE, TITLE 24 PART 2, SECTION 11B-203.5

PROJECT INFORMATION

| | | | |
|--------------------|--|---------------------------|---|
| SITE NAME: | GOLDEN FOOTHILLS | PROPERTY OWNER: | GOLD RUSH HILL A CA LLC 1261 HAWKS FLIGHT COURT, SUITE 3H EL DORADO HILLS, CA 95762 |
| MDG LOCATION ID: | 5000063898 | APPLICANT: | VERIZON WIRELESS 2770 SHADELANDS DRIVE, BLDG 11 WALNUT CREEK, CA 94598 |
| COUNTY: | EL DORADO | SITE ACQUISITION COMPANY: | EPIC WIRELESS GROUP 605 COOLIDGE DRIVE, SUITE 100 FOLSOM, CA 95630 |
| JURISDICTION: | EL DORADO COUNTY | LEASING CONTACT: | ATTN: JASMINE LEARY (209) 923-3097 JASMINE.LEARY@EPICWIRELESS.NET |
| APN: | 117-084-005-000 | ZONING CONTACT: | ATTN: JASMINE LEARY (209) 923-3097 JASMINE.LEARY@EPICWIRELESS.NET |
| SITE ADDRESS: | 4994 HILLSDALE CIRCLE EL DORADO HILLS, CA 94585 | CONSTRUCTION CONTACT: | ATTN: BRETT EWING (916) 844-9324 BRETT.EWING@EPICWIRELESS.NET |
| CURRENT ZONING: | VACANT/INDUSTRIAL | | |
| CONSTRUCTION TYPE: | V-B | | |
| OCCUPANCY TYPE: | U, (UNMANNED COMMUNICATIONS FACILITY) | | |
| POWER: | PG&E | | |
| LATITUDE: | N 38° 37' 30.78" NAD 83 N 38.625217 | | |
| LONGITUDE: | W 121° 03' 45.03" NAD 83 W 121.062508 | | |
| GROUND ELEVATION: | 531' AMSL | | |

SHEET INDEX

| SHEET | DESCRIPTION | REV | SHEET | DESCRIPTION | REV |
|-------|--------------------|-----|-------|-------------|-----|
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ISSUE STATUS

| REV | DATE | DESCRIPTION | CAD |
|-----|----------|-------------|-------|
| 1 | 05/07/24 | CLIENT REV | C.T.C |
| 1 | 03/26/24 | CLIENT REV | S.D. |
| 0 | 02/23/24 | ZD 90% | - |

Licensee:

**PRELIMINARY:
NOT FOR
CONSTRUCTION**

KEVIN R. SORENSEN
S4469

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

ENGINEER:

3840 Taylor Road, Suite A, Lodi, CA 95650
Contact: Kevin Sorenson Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941

THESE PLANS AND SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF STREAMLINE ENGINEERING AND DESIGN INC. NO PART OF THESE PLANS OR SPECIFICATIONS ARE TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF STREAMLINE ENGINEERING AND DESIGN INC. ALL RIGHTS RESERVED.

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1.1

LEASE AREA DESCRIPTION

All that certain lease area being a portion of Parcel 59 as is shown on that certain Parcel Map recorded at Book 36 of Parcel Maps at Page 115, El Dorado County Records, State of California, and being a portion of the Section 23, Township 9 North, Range 8 East, M.D.B.& M, being more particularly described as follows:

Commencing at a survey spike and washer set for the Northerly terminus of that certain centerline tangent of Carson Crossing Drive labeled "N00°34'36"W 963.21'" as is shown that certain Tract Map filed for record at Book "J" of Maps at Page 135, Official Records, from which a similar monument bears South 25°45'02" West 1632.40 feet; thence from said point of commencement South 20°30'04" East 719.64 feet to the True Point of Beginning; thence from said point of beginning South 00°19'06" East 19.00 feet; thence North 89°40'54" East 9.42 feet; thence North 00°19'06" West 19.00 feet; thence South 89°40'54" West 9.42 feet to the point of beginning.

Together with a non-exclusive easement for access and utility purposes fifteen feet in width the centerline of which is described as follows: beginning at a point which bears South 00°19'06" East 7.50 feet from the Southwest corner of the above described lease area and running thence North 89°40'54" East 149.8 feet more or less to the public right of way.

Also together with a non-exclusive easement for utility purposes six feet in width the centerline of which is described as follows: beginning at a point which bears North 84°53'34" West 7.71 feet from the Northwest corner of the above described lease area and running thence South 00°19'06" East 49.9 feet more or less to the existing building; thence in, on, over, under, and through said building as is necessary to interconnect with the existing utility facilities.

Also together with a non-exclusive easement for utility purposes six feet in width the centerline of which is described as follows: beginning at a point which bears North 89°40'54" East 3.00 feet from the Northwest corner of the above described lease area and running thence North 00°19'06" West 0.75 feet more or less to the existing public utility easement.

Also together with a non-exclusive easement for utility purposes three feet in width the centerline of which is described as follows: beginning at a point which bears South 00°19'06" East 0.71 feet from the Northeast corner of the above described lease area and running thence North 89°25'24" East 32.49 feet to a point hereafter defined as Point "A"; thence continuing North 89°25'24" East 87.9 feet more or less to the existing public utility easement.

Also together with a non-exclusive easement for utility and tower purposes six feet in width the centerline of which is described as follows: beginning at Point "A" as previously defined and running thence South 00°19'06" East 14.75 feet.

Also together with a non-exclusive aerial easement for branches, twelve feet in diameter, centered on and around the proposed tower.

THESE DRAWINGS AND/OR THE ACCOMPANYING SPECIFICATION AS INSTRUMENTS OF SERVICE, ARE THE EXCLUSIVE PROPERTY OF GEIL ENGINEERING AND THEIR USE AND PUBLICATION SHALL BE RESTRICTED TO THE ORIGINAL SITE AND CARRIER FOR WHICH THEY ARE PREPARED. REUSE, REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED EXCEPT BY WRITTEN PERMISSION FROM GEIL ENGINEERING TITLE TO THESE PLANS AND/OR SPECIFICATIONS SHALL REMAIN WITH GEIL ENGINEERING WITHOUT PREJUDICE AND VISUAL CONTACT WITH THEM SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS.

BOUNDARY SHOWN IS BASED ON MONUMENTATION FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY. THIS IS A SPECIALIZED TOPOGRAPHIC MAP WITH PROPERTY LINES AND EASEMENTS BEING A GRAPHIC DEPICTION BASED ON INFORMATION GATHERED FROM VARIOUS SOURCES OF RECORD AND AVAILABLE MONUMENTATION FOUND DURING THE FIELD SURVEY. PROPERTY LINES AND LINES OF TITLE WERE NOT INVESTIGATED NOR SURVEYED EXCEPT AS SHOWN ON THIS PLAN. NO PROPERTY MONUMENTS WERE SET.

DATE OF SURVEY: 03-23-22

SURVEYED BY OR UNDER DIRECTION OF: KENNETH D. GEIL, R.C.E. 14803

LOCATED IN THE COUNTY OF EL DORADO, STATE OF CALIFORNIA

BEARINGS SHOWN ARE BASED UPON MONUMENTS FOUND AND RECORD INFORMATION. THIS IS NOT A BOUNDARY SURVEY.

ELEVATIONS SHOWN ON THIS PLAN ARE BASED UPON U.S.G.S. N.A.V.D. 88 DATUM. ABOVE MEAN SEA LEVEL.

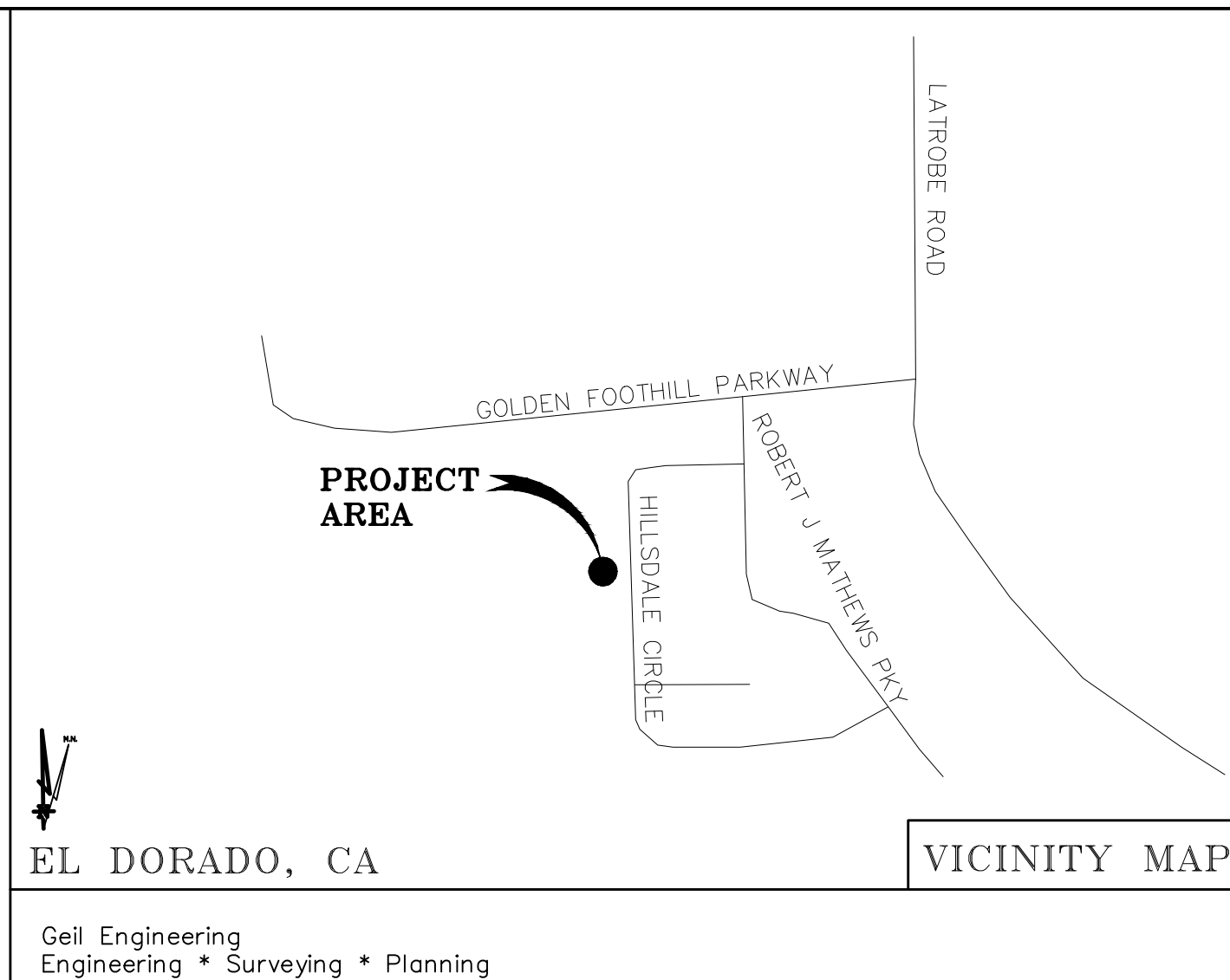
N.G.V.D. 1929 CORRECTION: SUBTRACT 2.57' FROM ELEVATIONS SHOWN.

CONTOUR INTERVAL: 1'

CONTRACTOR IS RESPONSIBLE TO VERIFY LEASE AREA PRIOR TO CONSTRUCTION.

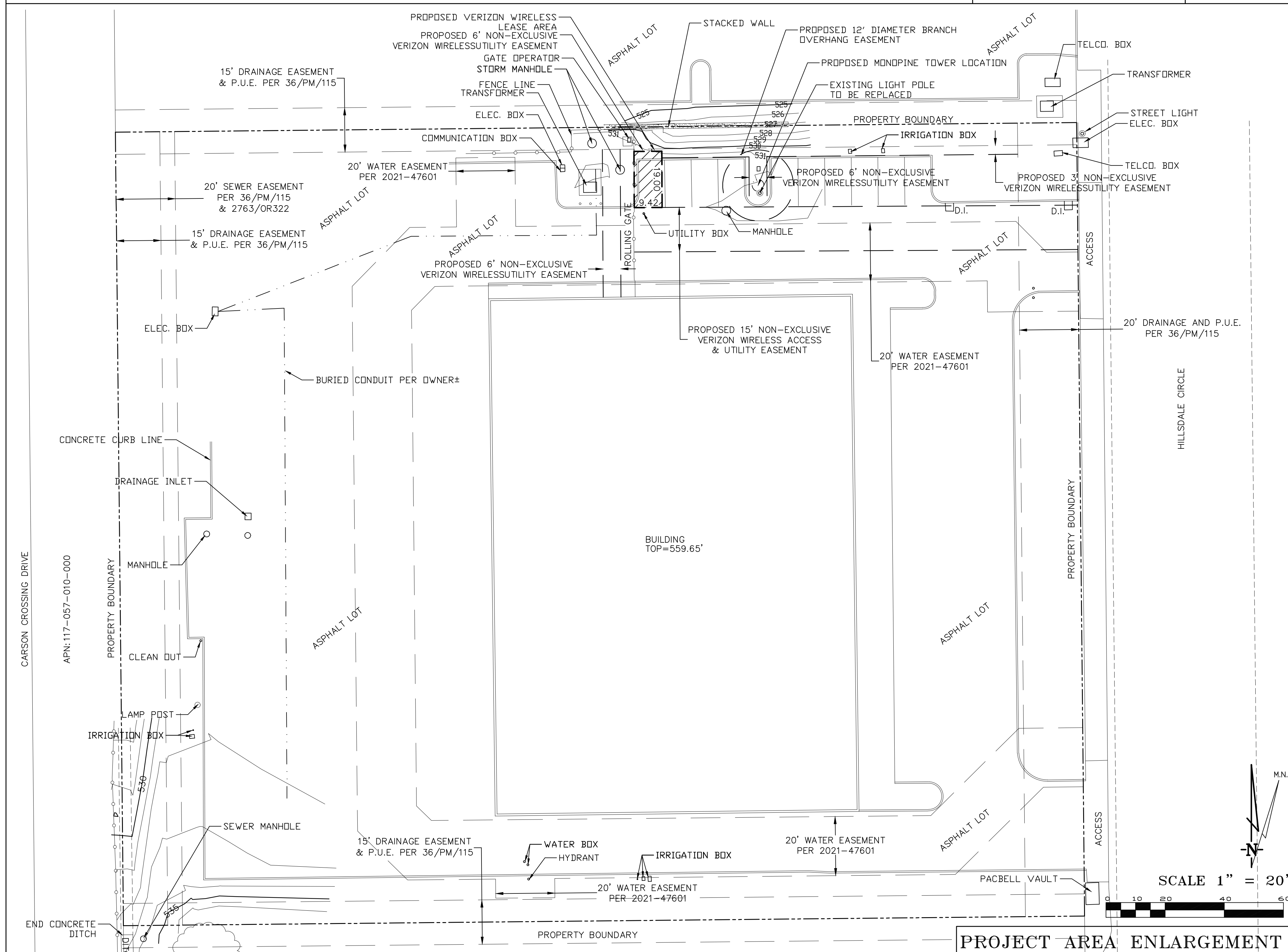
ASSESSOR'S PARCEL NUMBER: 117-084-005-000

OWNER(S): GOLD RUSH HILL A CA LLC
1261 HAWKS FLIGHT COURT #H
EL DORADO HILLS, CA 95762



| DEPT | APPROVED | DATE | DATE | | | | | | | |
|----------|----------|------|------|----|----|-----|-------|-----|--------|--|
| | | | ARC | RE | RF | INT | EE\IN | OPS | EE\OUT | |
| Surveyor | | | | | | | | | | |

GEIL ENGINEERING
ENGINEERING • SURVEYING • PLANNING
1226 HIGH STREET
AUBURN, CALIFORNIA 95603
Phone: (530) 885-0426 Fax: (530) 823-1309



El Dorado, CA

Geil Engineering
Engineering • Surveying • Planning
1226 High Street
Auburn, California 95603-5015
Phone: (530) 885-0426 * Fax: (530) 823-1309

Verizon Wireless

Project Name: Golden Foothills

Project Site Location: 4994 Hilldale Circle
El Dorado Hills, CA 95762
El Dorado County

Date of Observation: 02-09-24

Equipment/Procedure Used to Obtain Coordinates: Trimble Pathfinder Pro XL post processed with Pathfinder Office software.

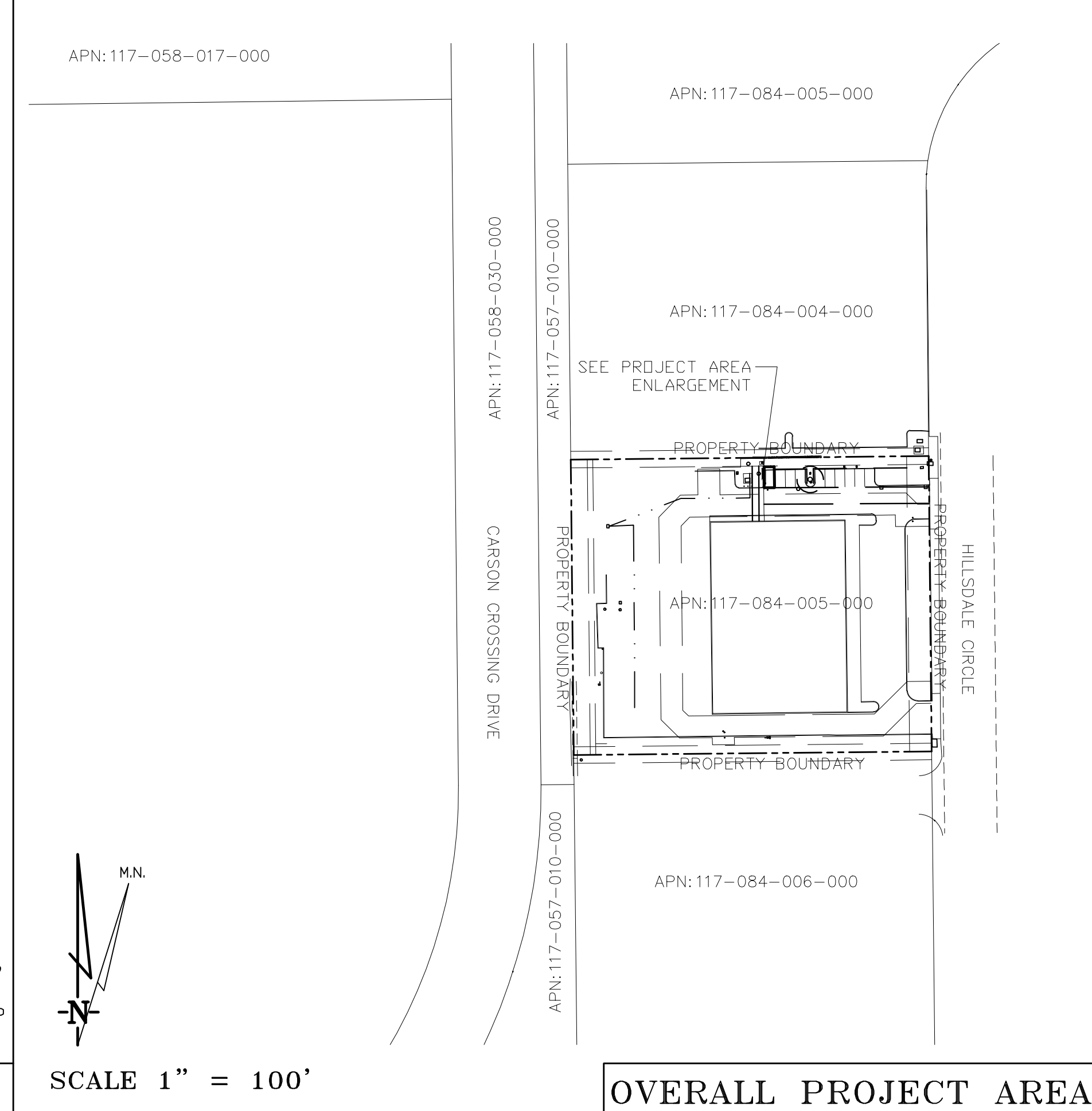
Type of Antenna Mount: Proposed Monopine

Coordinates (Tower) (NAD83)
Latitude: N 38° 37' 30.78" N 38.625217°
Longitude: W 121° 03' 45.03" W 121.062508°

ELEVATION of Ground at Structure (NAVD88) 531' AMSL

CERTIFICATION: I, the undersigned, do hereby certify elevation listed above is based on a field survey done under my supervision and that the accuracy of those elevations meet or exceed 1-A Standards as defined in the FAA ASAC Information Sheet 91-003, and that they are true and accurate to the best of my knowledge and belief.

Kenneth D. Geil California RCE 14803

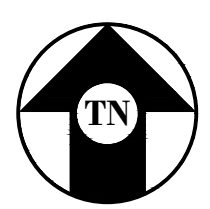
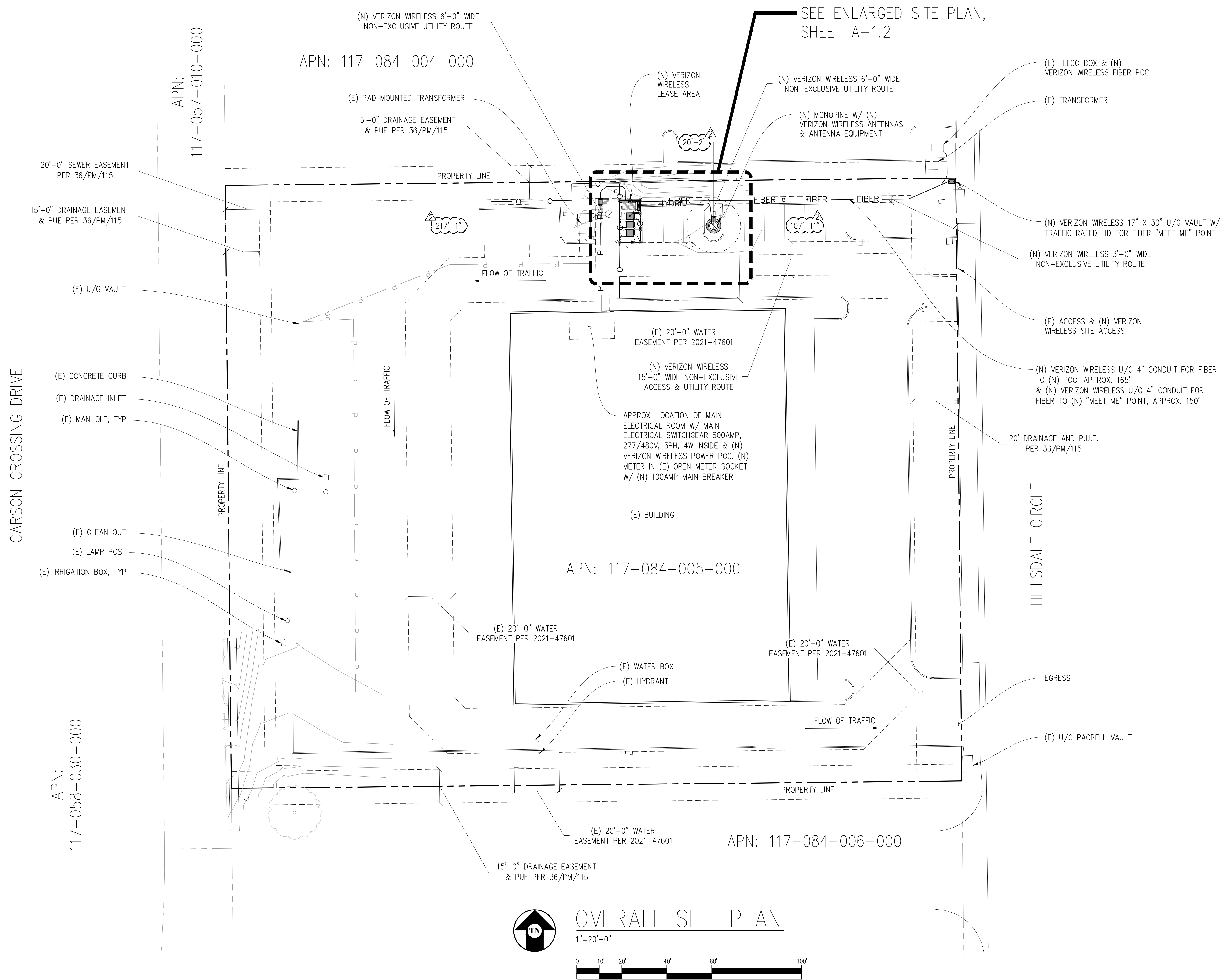


GOLDEN FOOTHILLS
4994 HILLDALE CIRCLE
EL DORADO HILLS, CA 95762

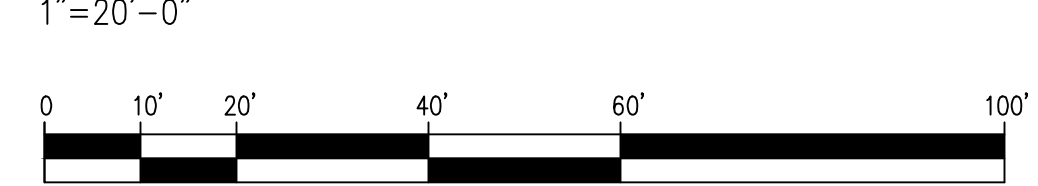
PLOT PLAN AND
SITE TOPOGRAPHY

| REV | NO | DATE | DESCRIPTION |
|----------|----|----------|-------------------|
| 03-24-22 | 01 | 03-24-22 | DRAWING SUBMITTAL |
| 04-04-22 | 02 | 04-04-22 | TITLE WORK |
| 05-18-22 | 03 | 05-18-22 | LEASE AREA MOD. |
| 08-30-22 | 04 | 08-30-22 | LEASE AREA MOD. |
| 10-24-23 | 05 | 10-24-23 | LEASE AREA MOD. |

Sheet **C-1**



OVERALL SITE PLAN



Issued For:
GOLDEN FOOTHILLS
4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR
verizon
2770 SHADELANDS DRIVE, BUILDING 11
WALNUT CREEK, CA 94598

VENDOR:
EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID: 5000063898
PROJECT ID: 16870411
DRAWN BY: -
CHECKED BY: J. GRAY
APPROVED BY: -

| ISSUE STATUS | | | |
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| 1 | 05/07/24 | CLIENT REV | C.T.C. |
| 1 | 03/26/24 | CLIENT REV | S.D. |
| 0 | 02/23/24 | ZD 90% | - |

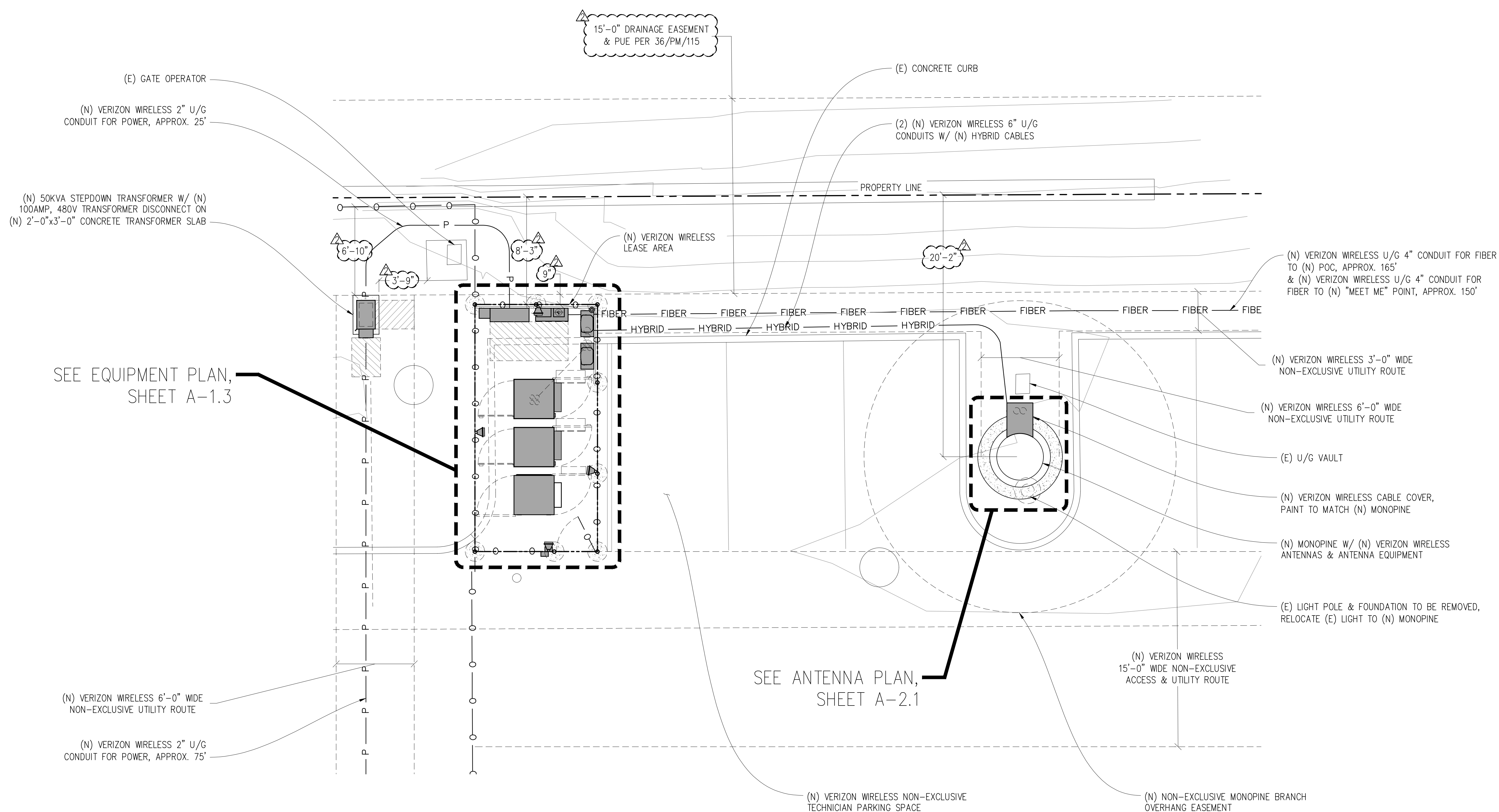
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CONSTRUCTION**
KEVIN R. SORENSEN
S4469

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Streamline Engineering
3840 Taylor Road, Suite A, Lodi, CA 95650
Contact: Kevin Sorensen Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941
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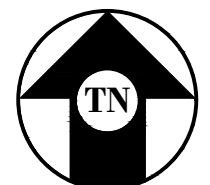
SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
A-1.1



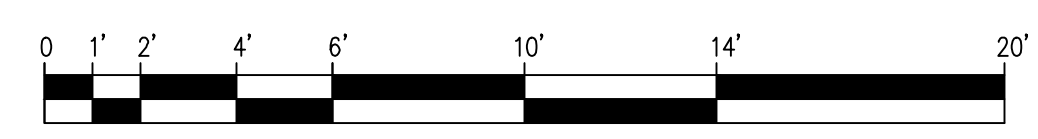
SEE EQUIPMENT PLAN,
SHEET A-1.3

SEE ANTENNA PLAN,
SHEET A-2.1



ENLARGED SITE PLAN

1/4"=1'-0"



Issued For:
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DORADO HILLS, CA 94585

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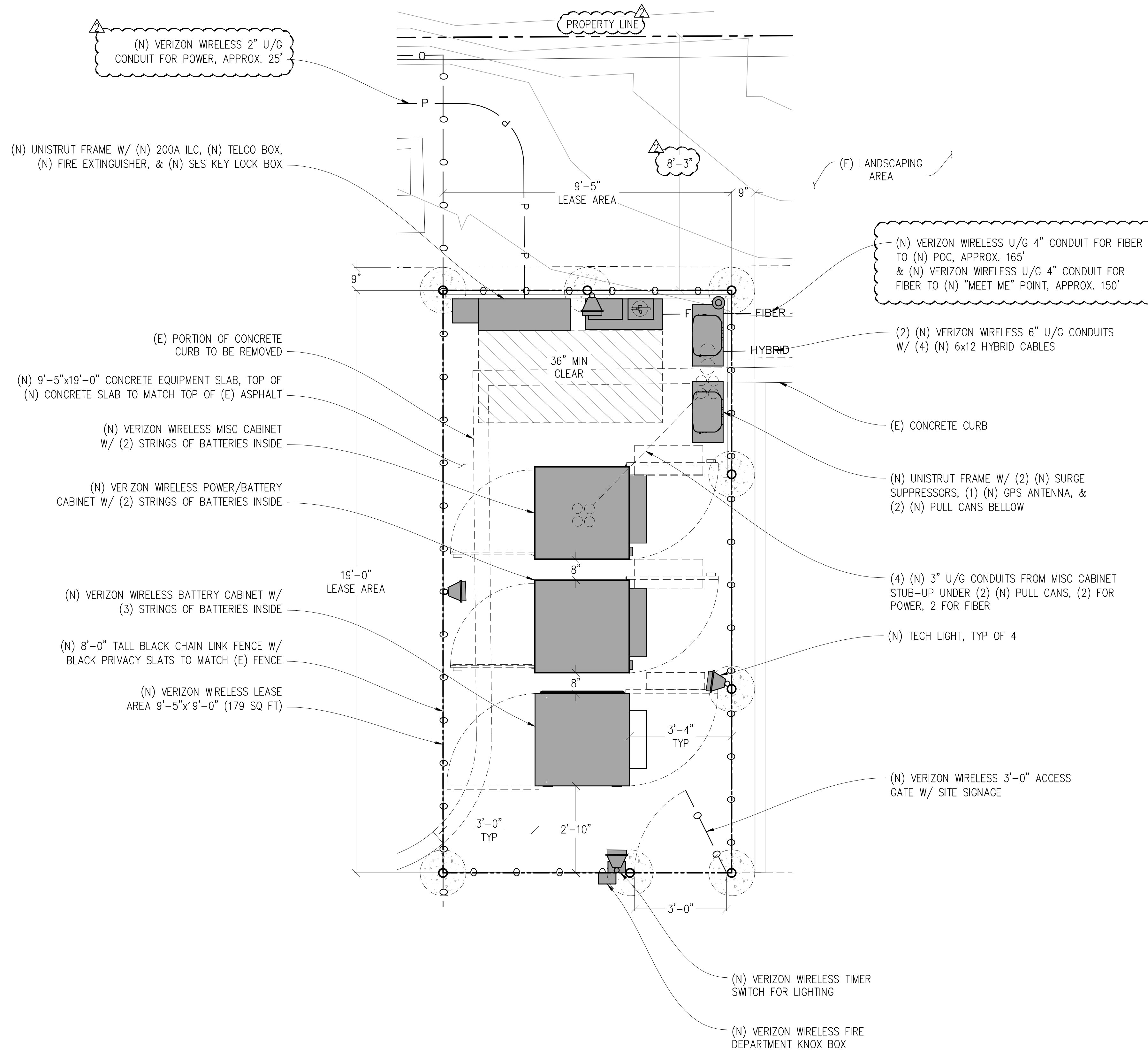
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SHEET TITLE:
**ENLARGED SITE
PLAN**

SHEET NUMBER:
A-1.2



EQUIPMENT PLAN
1/2" = 1'-0"
0 6" 1' 2' 3' 5' 7' 10'

Issued For:
**GOLDEN
FOOTHILLS**
4994 HILLSDALE CIRCLE, EL
DORADO HILLS, CA 94585

PREPARED FOR
verizon
2770 SHADELANDS DRIVE, BUILDING 11
WALNUT CREEK, CA 94598

Vendor:
**EPIC
WIRELESS GROUP LLC**
Connecting a Wireless World

MDG LOCATION ID: 5000063898
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DRAWN BY: -
CHECKED BY: J. GRAY
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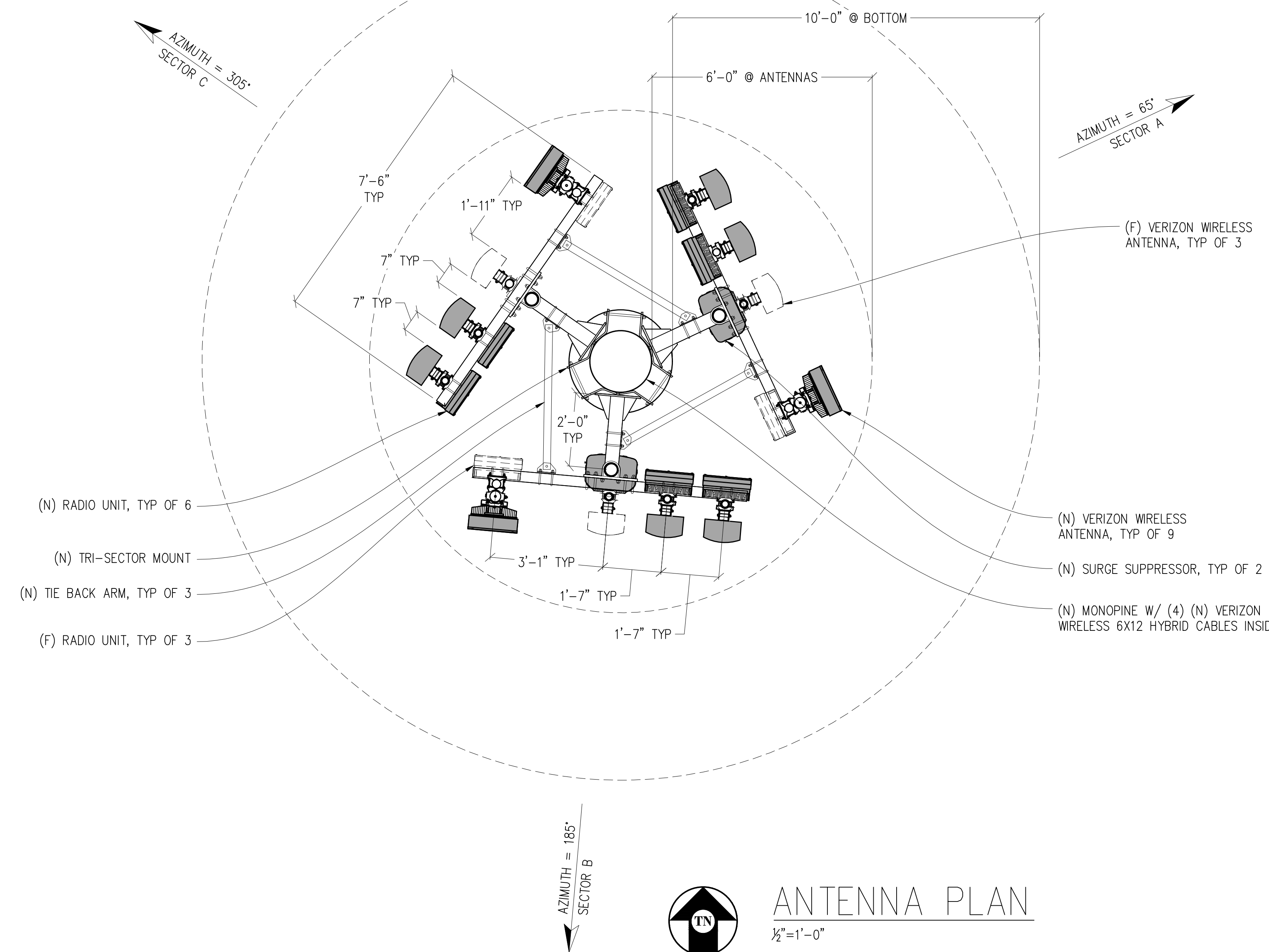
ENGINEER:
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3840 Taylor Road, Suite A, Lodi, CA 95650
Contact: Kevin Sorenson Phone: 916-660-1930
E-Mail: kevin@streamlineeng.com Fax: 916-660-1941
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SHEET TITLE:
**EQUIPMENT
PLAN**

SHEET NUMBER:
A-1.3

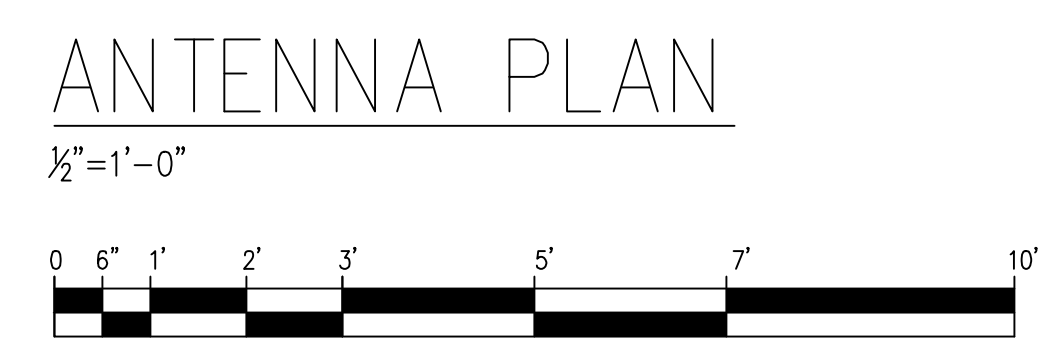
| ANTENNA & CABLE SCHEDULE (PRELIMINARY & SUBJECT TO CHANGE) | | | | | | | | | | | | | | | | |
|--|------------|---------------------------------|-----------------------|--------|---------|-----------|-----------------|----------------------|-----------------------|------------------|--------------------|-----------|------------------|------------------|------------------|---|
| SECTOR | ANTENNAS | | | | | RRU'S | | | CABLING | | | | | | | |
| | TECHNOLOGY | ANTENNA MODEL | NO. OF COAX PORTS | CENTER | AZIMUTH | RRU MODEL | NO. OF RRU'S | NO. OF HYBRID CABLES | SIZE OF HYBRID CABLES | LENGTH OF CABLES | NO. OF COAX CABLES | COAX DIA. | SURGE SUPPRESSOR | NO. OF DIPLEXERS | NO. OF COMBINERS | |
| ALPHA SECTOR | A1 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 65° | RADIO 4490 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | A2 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 65° | RADIO 4890 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | A3 | | FUTURE | | 72'-0" | 65° | FUTURE RADIO | 0 | 2 | 6X12 | 120' | 0 | - | (1) 6627 | 0 | 0 |
| | A4 | 5G | AIR 6419 | 0 | 73'-9" | 65° | INTEGRATED | 0 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| BETA SECTOR | B1 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 185° | RADIO 4490 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | B2 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 185° | RADIO 4890 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | B3 | | FUTURE | | 72'-0" | 185° | FUTURE RADIO | 0 | 2 | 6X12 | 120' | 0 | - | (1) 6627 | 0 | 0 |
| | B4 | 5G | AIR 6419 | 0 | 73'-9" | 185° | INTEGRATED | 0 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| GAMMA SECTOR | C1 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 305° | RADIO 4490 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | C2 | LTE 700, PCS, AWS, AWS3, 5G 850 | COMMSCOPE NHH-65B-R2B | 6 | 72'-0" | 305° | RADIO 4890 UNIT | 1 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | C3 | | FUTURE | | 72'-0" | 305° | FUTURE RADIO | 0 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |
| | C4 | 5G | AIR 6419 | 0 | 73'-9" | 305° | INTEGRATED | 0 | SHARED | SHARED | SHARED | 0 | - | SHARED | 0 | 0 |

NOTE:
1. ANTENNA POSITIONS ARE LEFT TO RIGHT FROM BACK OF SECTOR.
2. EQUIPMENT IS PRELIMINARY & SUBJECT TO CHANGE.



NOTICE
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- NOTES:
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2. AIR ANTENNAS TO BE COVERED IN 3M FILM TO MATCH (N) POLE. ***DO NOT PAINT AIR ANTENNAS***
3. ALL ANTENNAS TO BE COVERED IN MONOPINE SOCKS
4. (N) POLE TO BE PAINTED FLAT BROWN



Issued For:
GOLDEN FOOTHILLS
4994 HILLSDALE CIRCLE, EL DORADO HILLS, CA 94585

PREPARED FOR
verizon
2770 SHADELANDS DRIVE, BUILDING 11
WALNUT CREEK, CA 94598

Vendor:
EPIC WIRELESS GROUP LLC
Connecting a Wireless World

MDG LOCATION ID: 5000063898
PROJECT ID: 16870411
DRAWN BY: -
CHECKED BY: J. GRAY
APPROVED BY: -

| ISSUE STATUS | | | |
|--------------|----------|-------------|--------|
| REV | DATE | DESCRIPTION | CAD |
| 1 | 05/07/24 | CLIENT REV | C.T.C. |
| 1 | 03/26/24 | CLIENT REV | S.D. |
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SHEET TITLE:
ANTENNA PLAN

SHEET NUMBER:
A-2.1

Issued For:

**GOLDEN
FOOTHILLS**

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DORADO HILLS, CA 94585

PREPARED FOR



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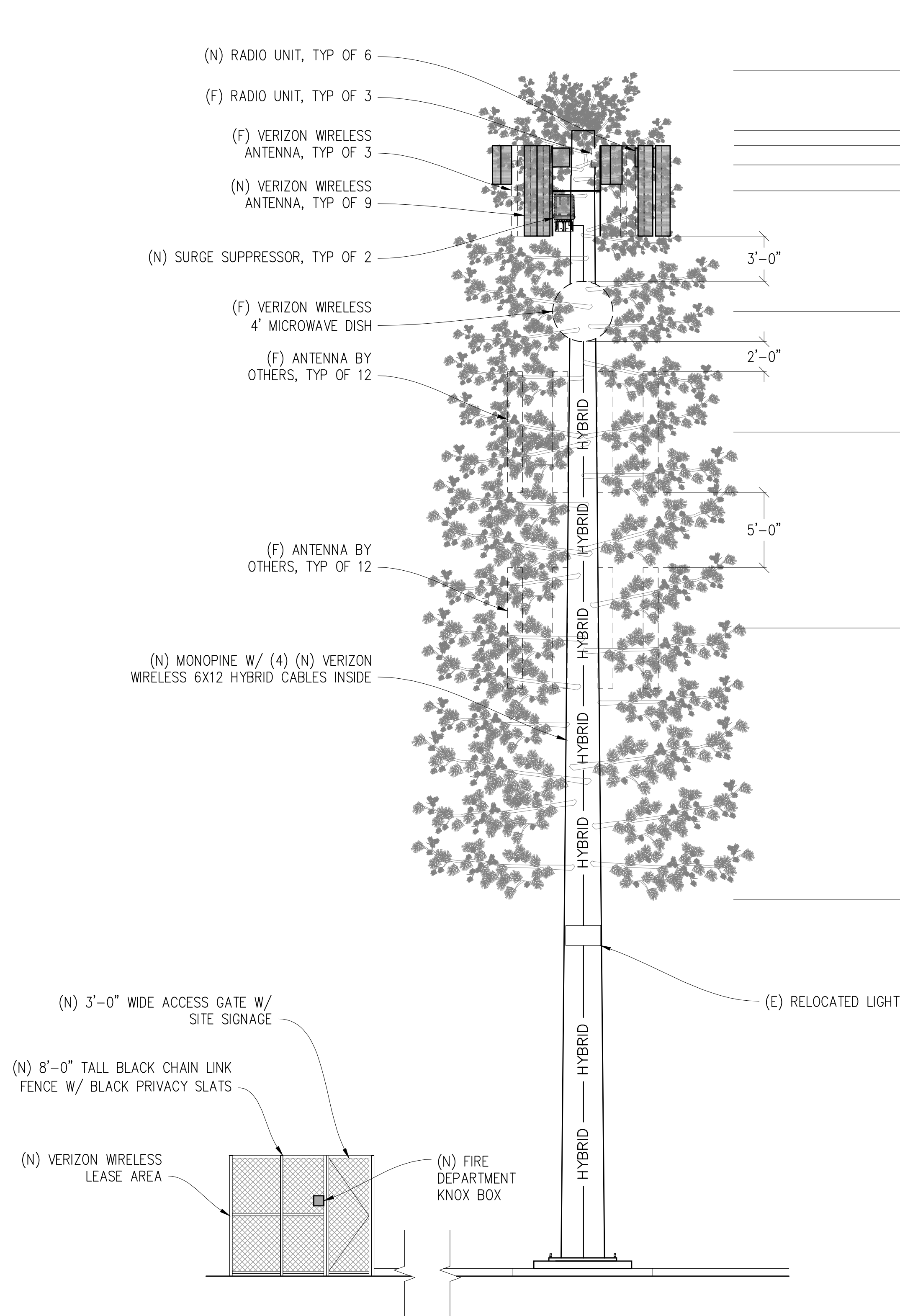
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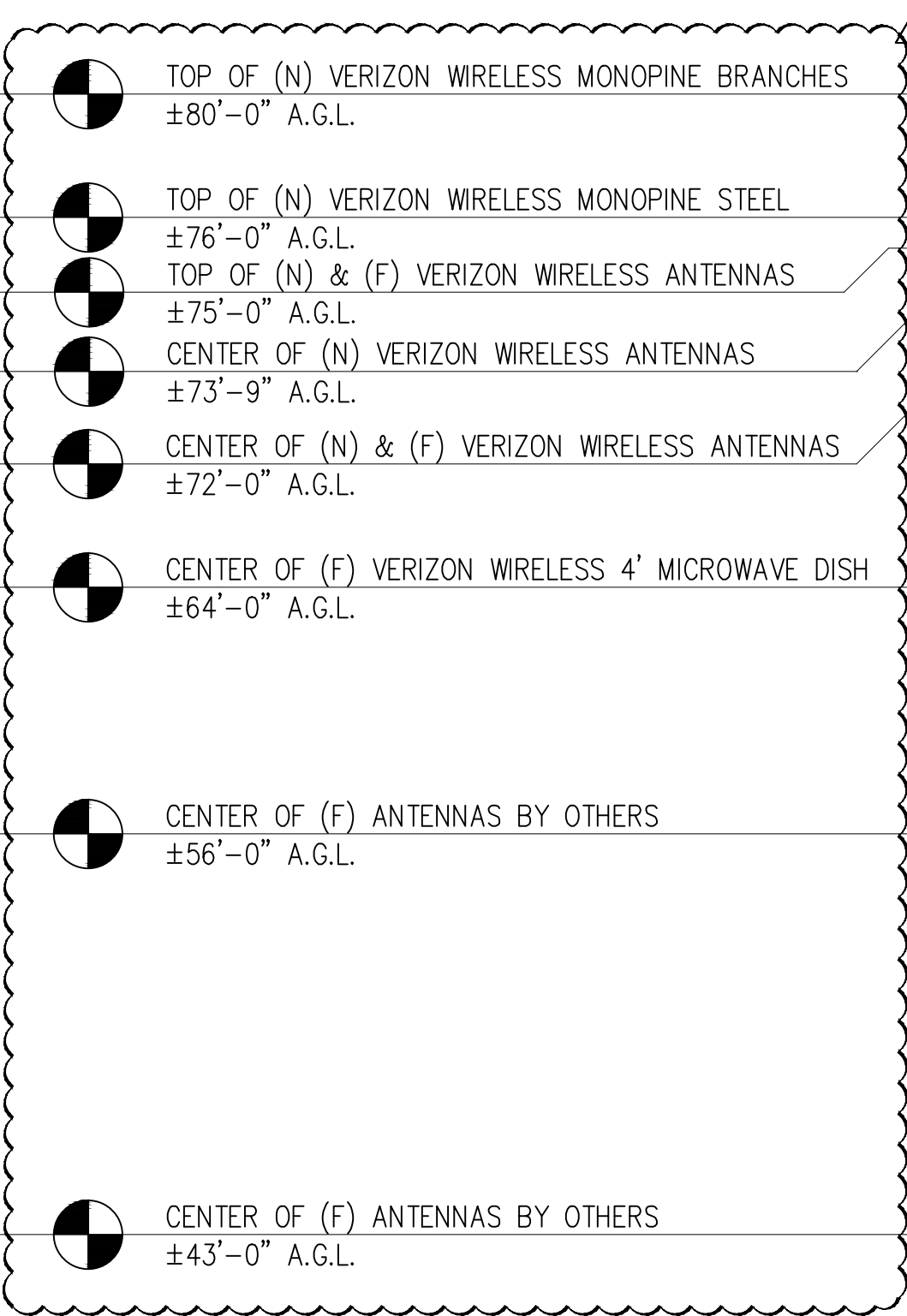
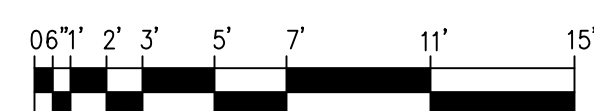
ELEVATIONS

SHEET NUMBER:

A-3.1



SOUTH ELEVATION
3/16"=1'-0"

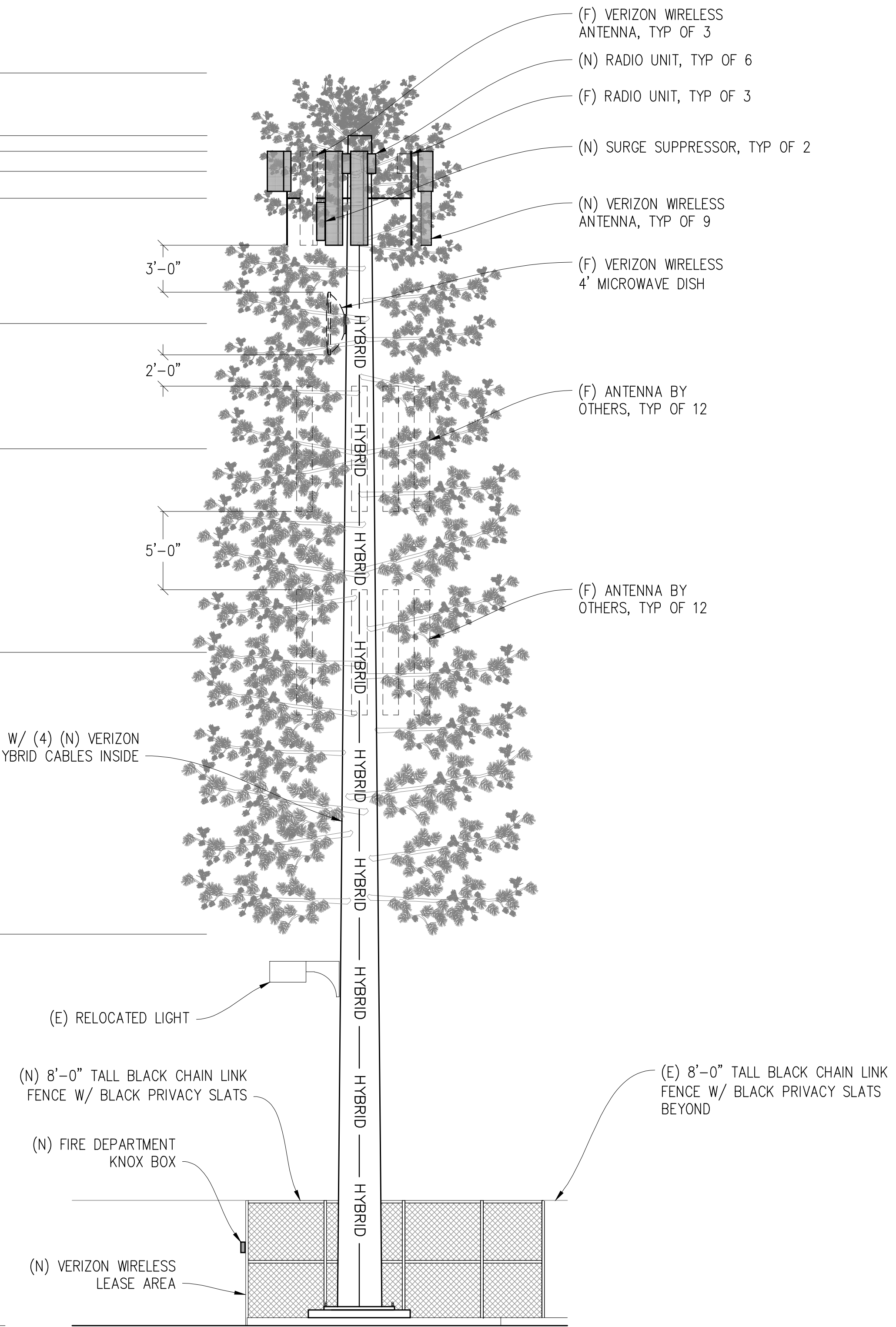


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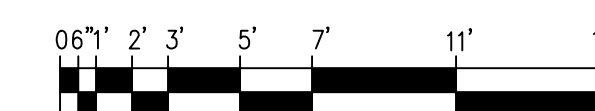
GROUND LEVEL
0'-0"

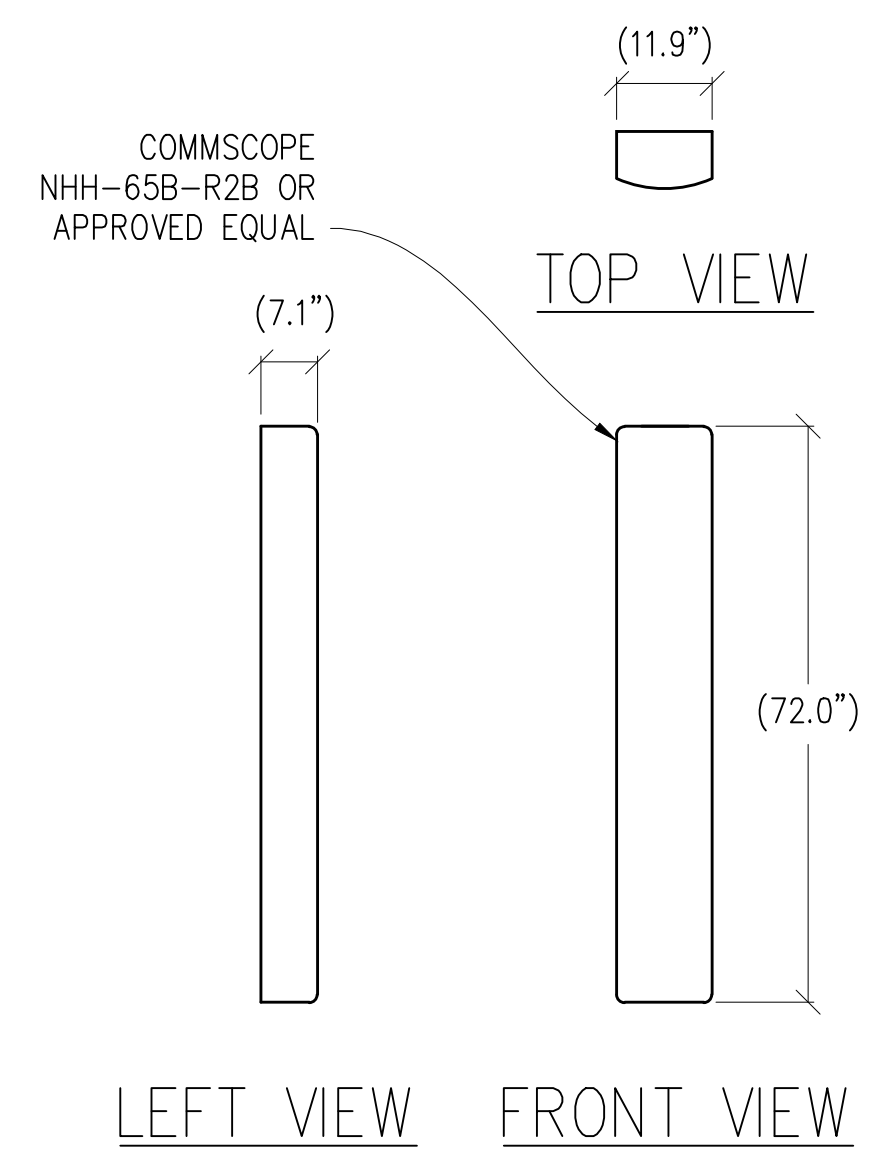
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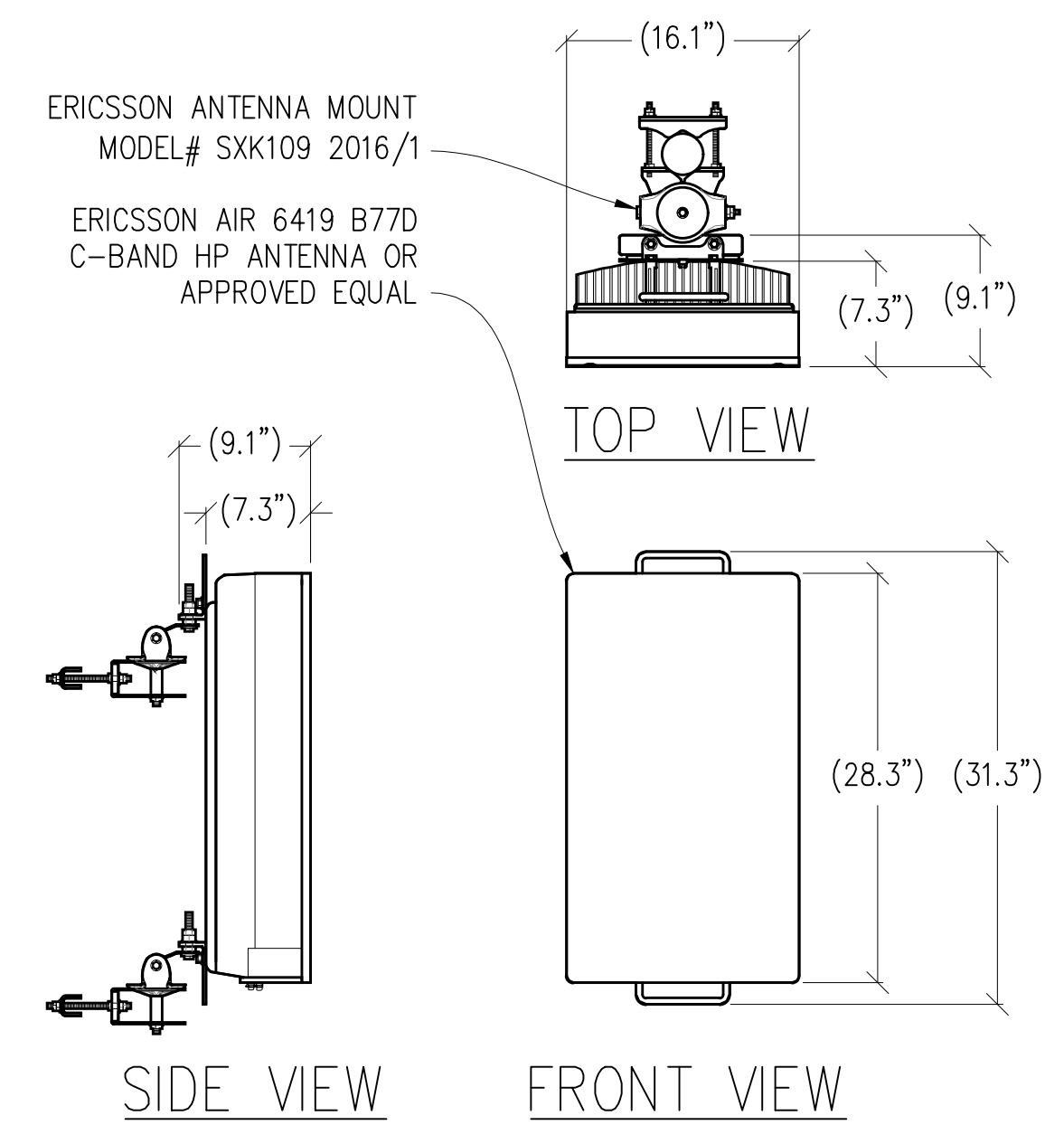


EAST ELEVATION
3/16"=1'-0"

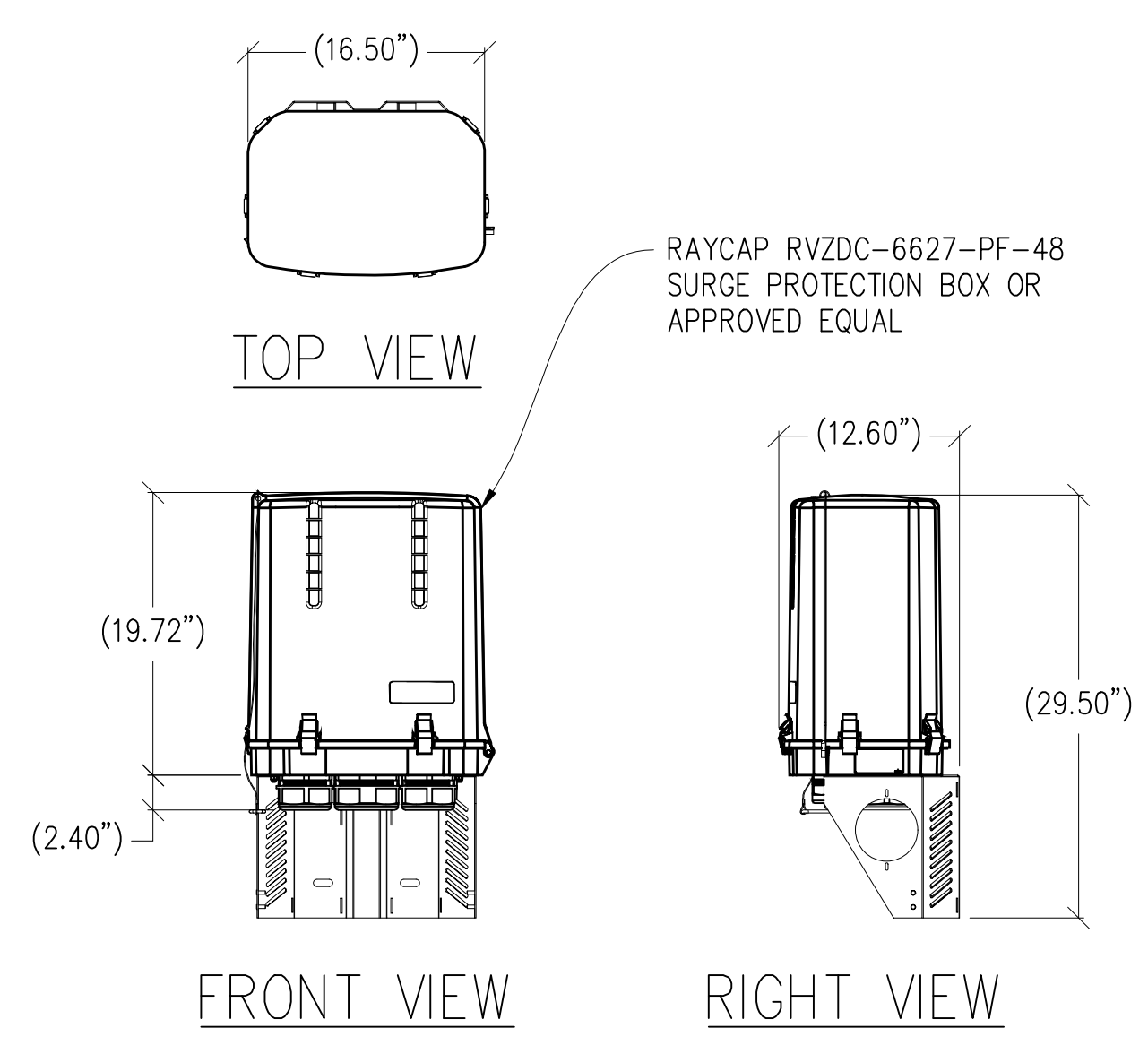




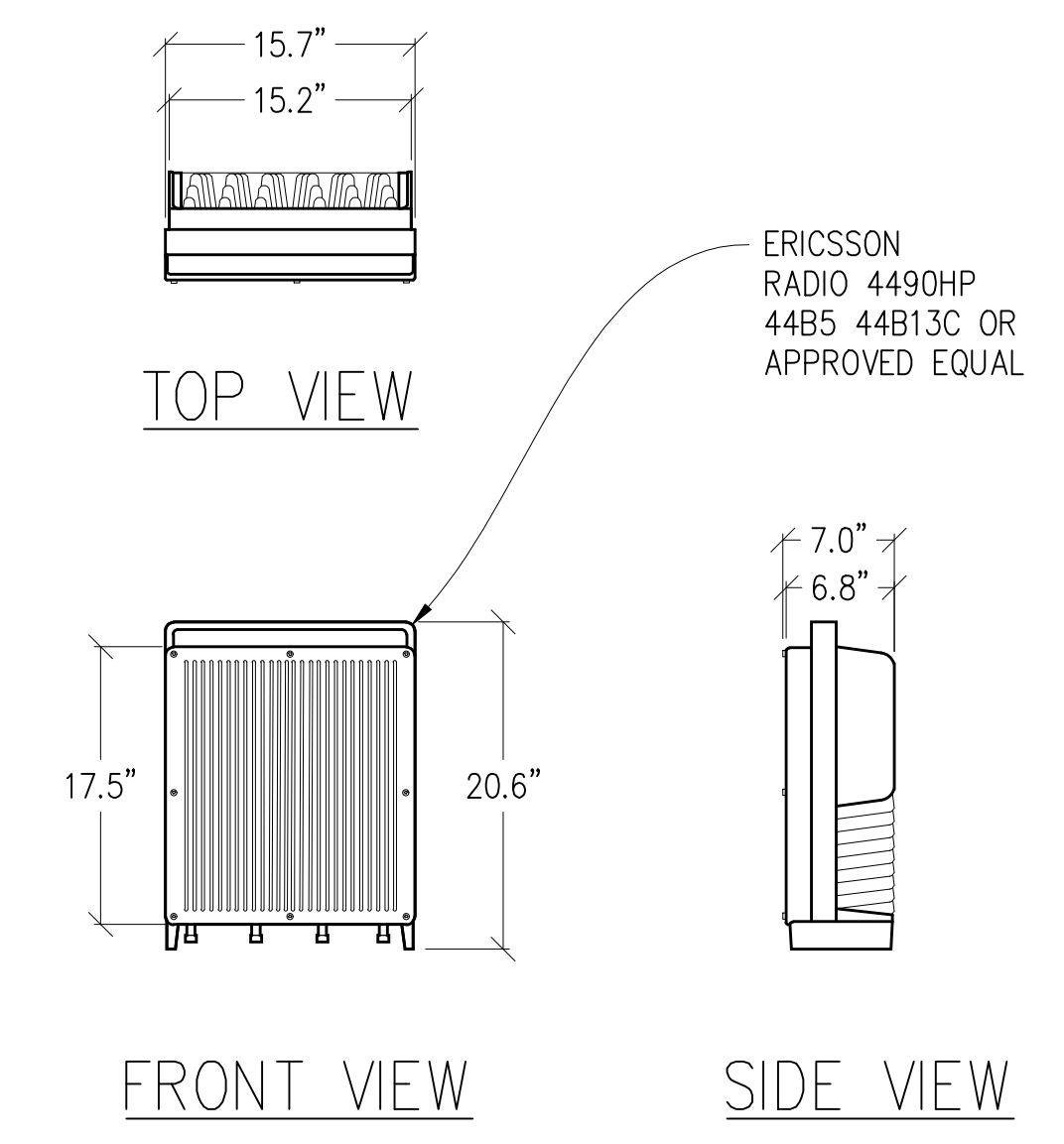
1 ANTENNA DETAIL
1/2"=1" MAX WEIGHT: 43.7 LBS



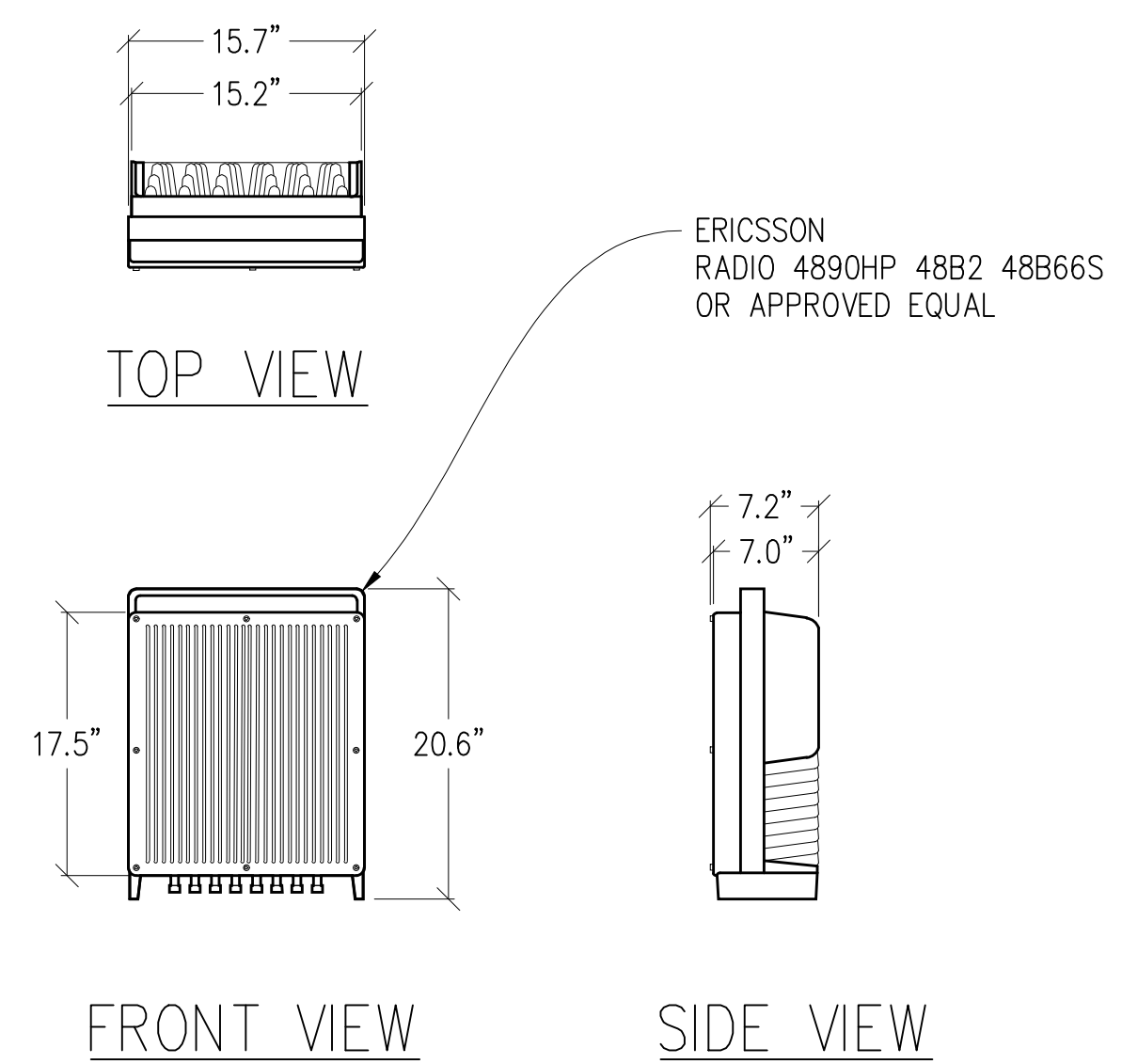
2 ANTENNA DETAIL
1"=1'-0" MAX WEIGHT: 64 LBS



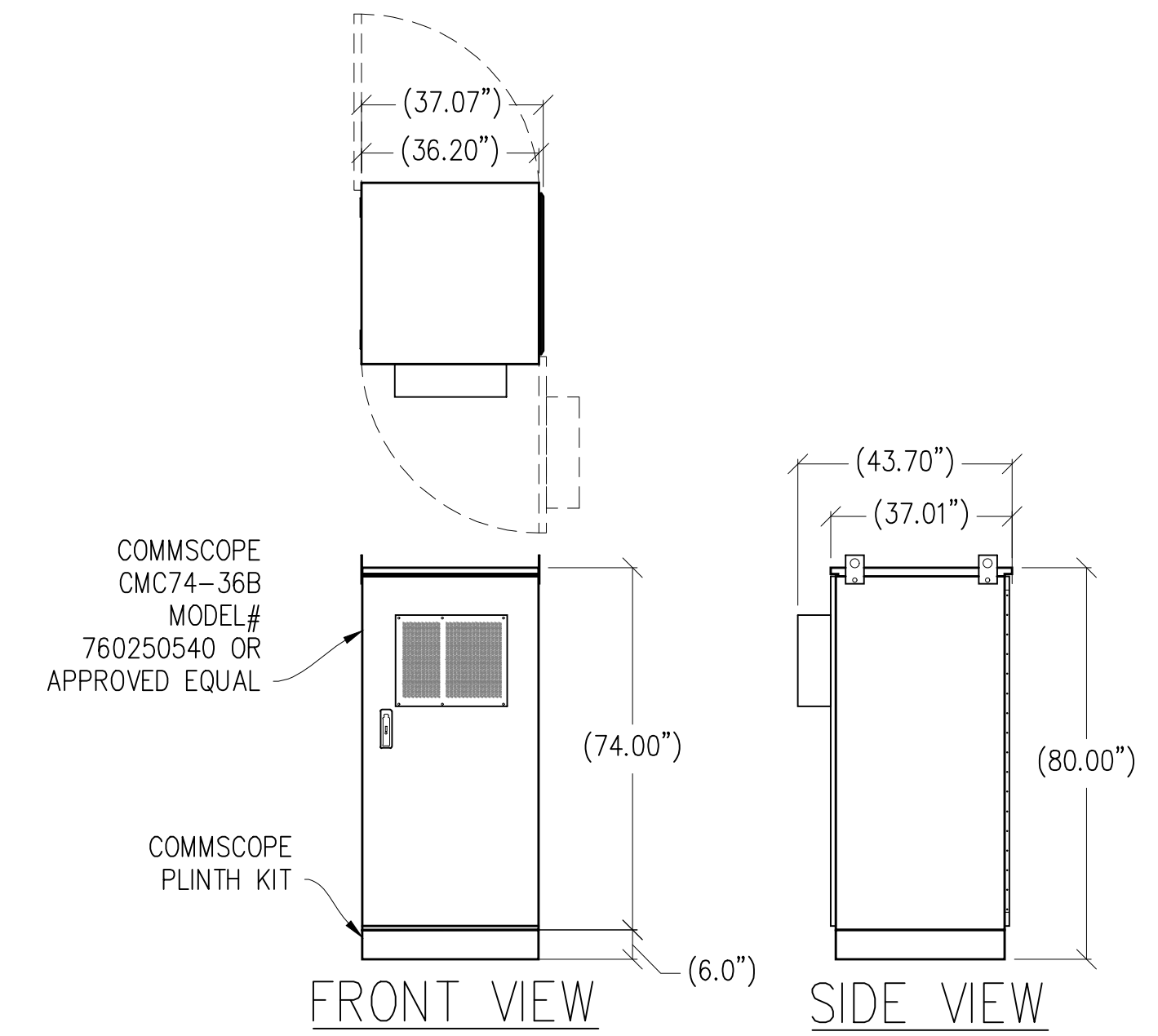
3 SURGE PROTECTION BOX
1"=1'-0" MAX WEIGHT: 32.0 LBS



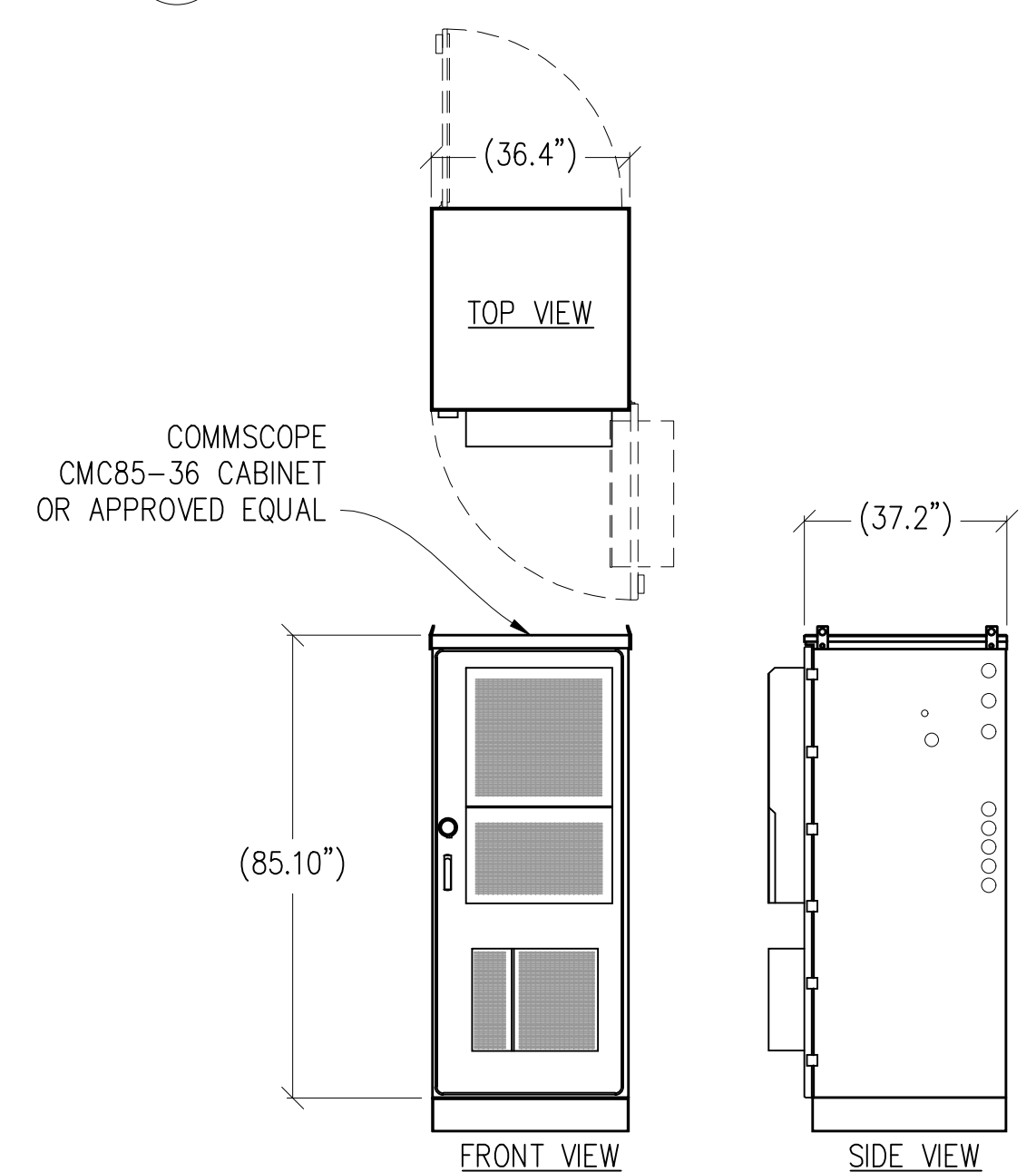
4 RADIO 4490HP DETAIL
1"=1'-0" MAX WEIGHT: 68.4 LBS



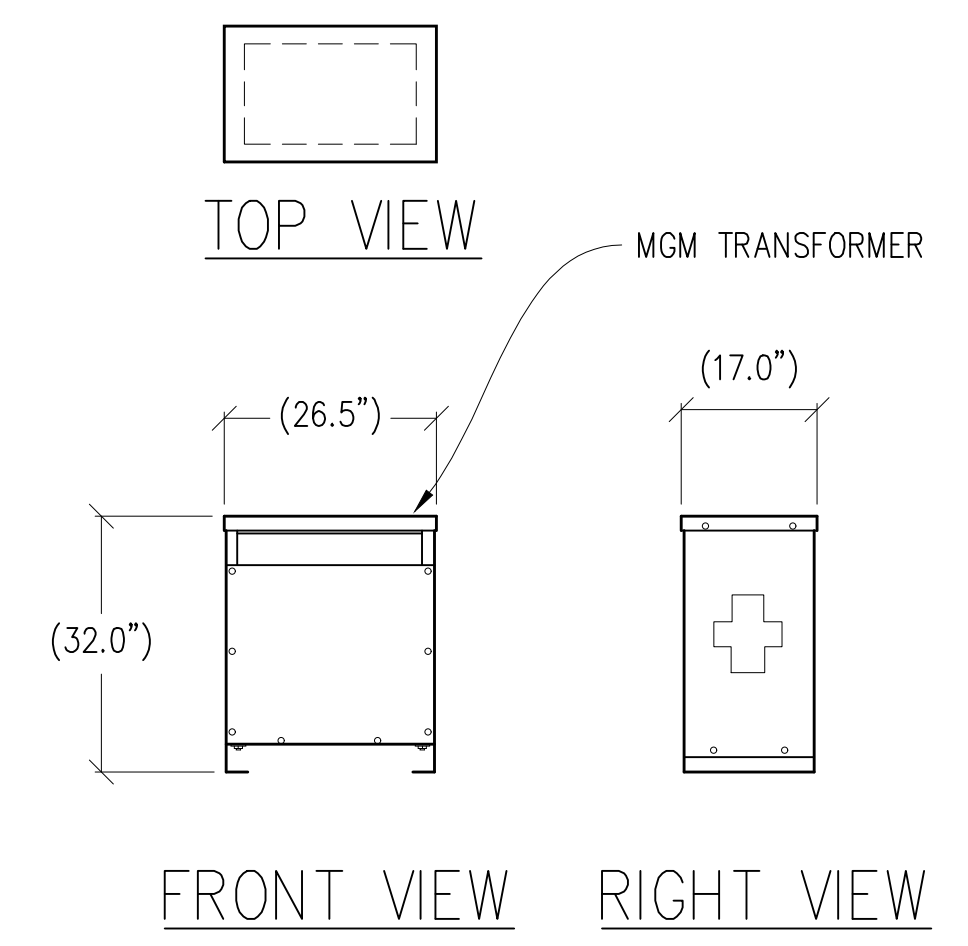
5 RADIO 4890HP DETAIL
1"=1'-0" MAX WEIGHT: 69.5 LBS



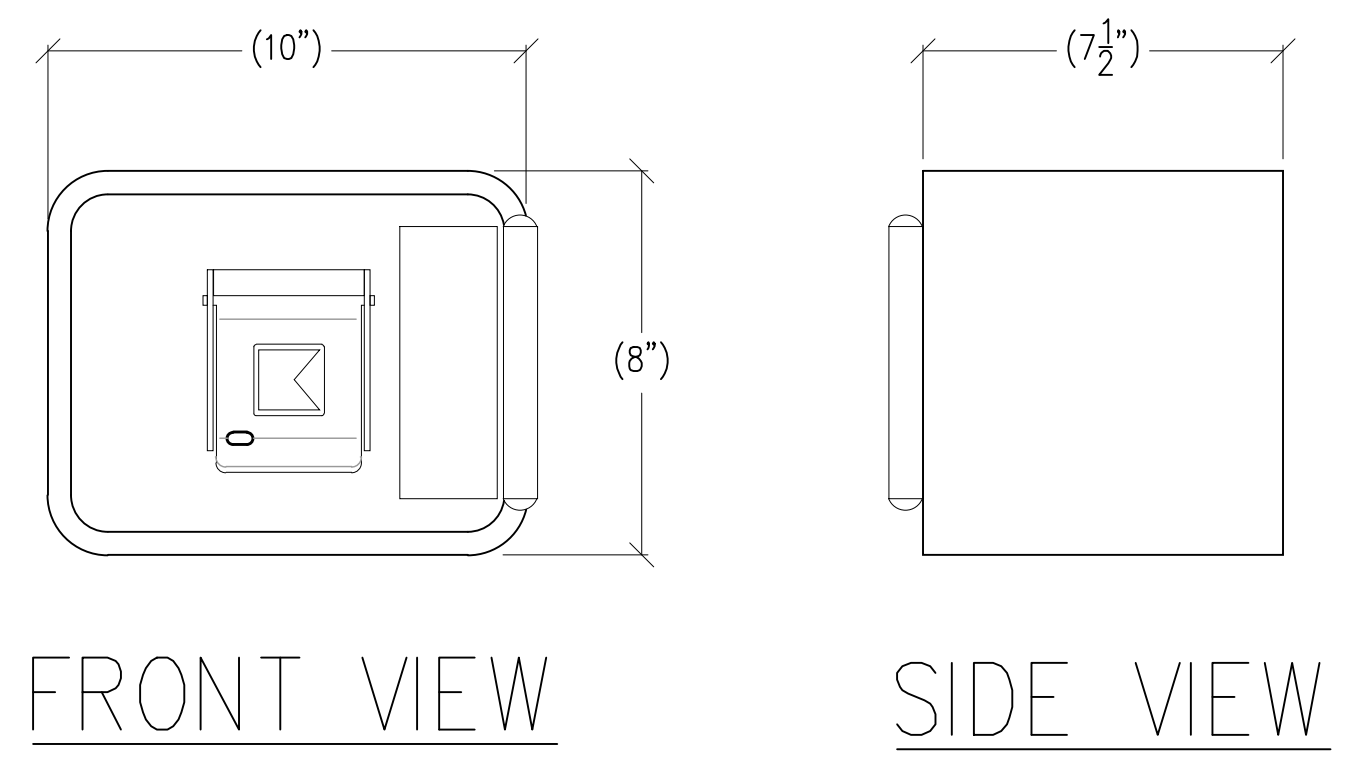
6 BATTERY CABINET DETAIL
3/8"=1'-0" WEIGHT W/ BATTERIES: 4,340.4 LBS



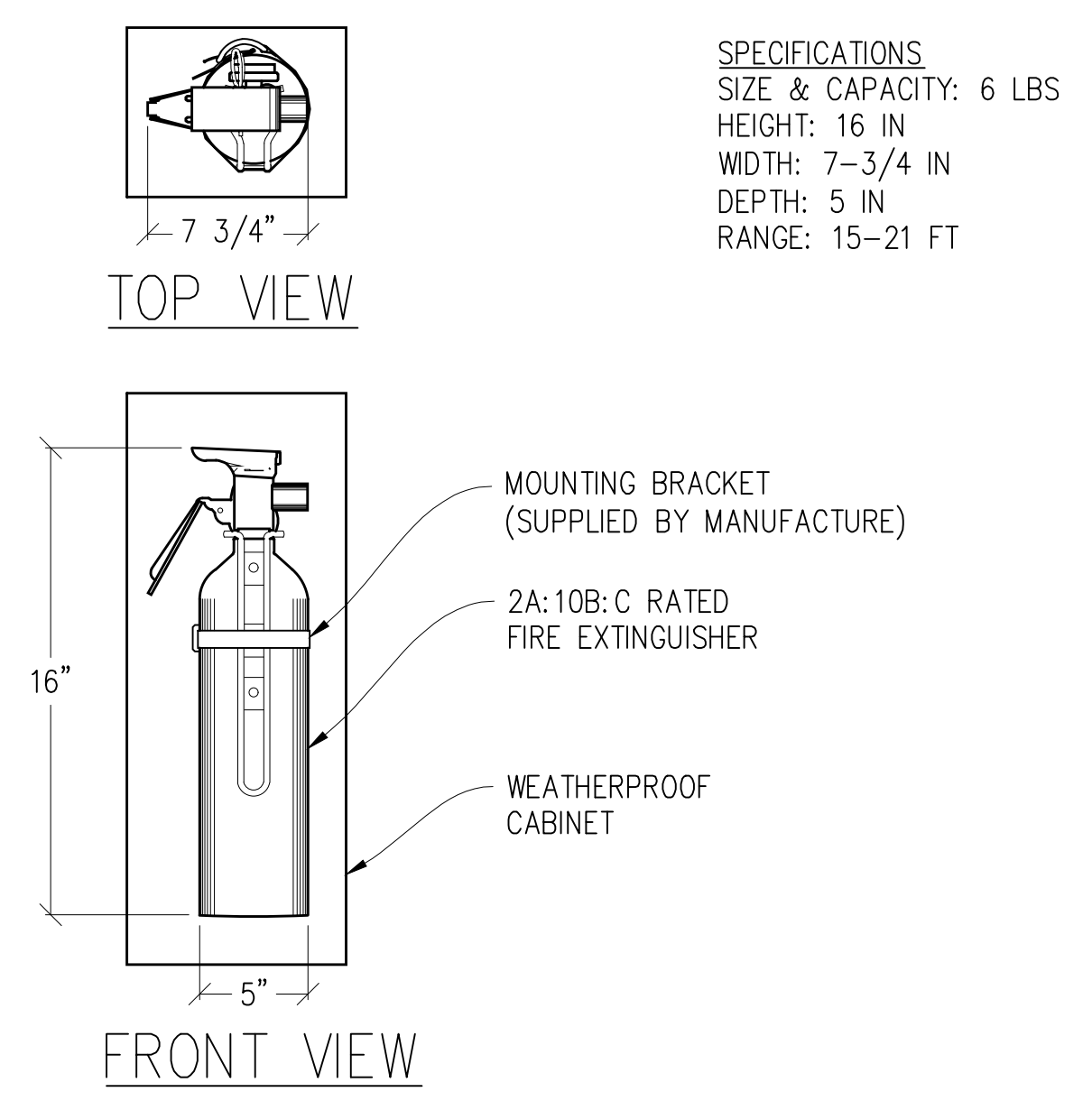
7 CABINET DETAIL
3/8"=1'-0" MAX WEIGHT: 2,740 LBS



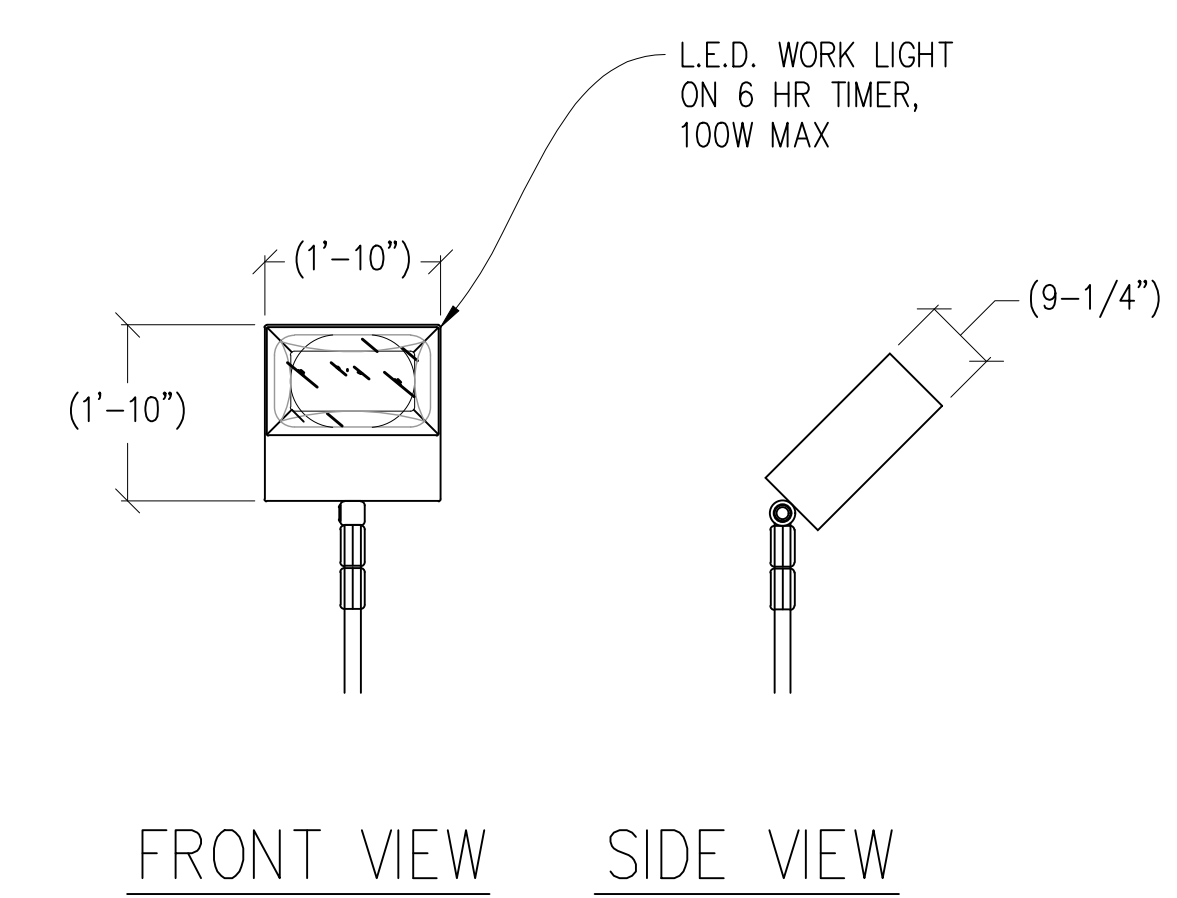
8 TRANSFORMER DETAIL
1/2"=1'-0" WEIGHT: 390 LBS



9 KNOX-BOX 3200 DETAIL
3"=1'-0"



10 FIRE EXTINGUISHER DETAIL
N.T.S.



11 TECH LIGHT DETAIL
1/2"=1'-0"

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CHECKED BY: J. GRAY
APPROVED BY: -

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SHEET TITLE:
DETAILS

SHEET NUMBER:
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ELECTRICAL LABELING REQUIREMENTS

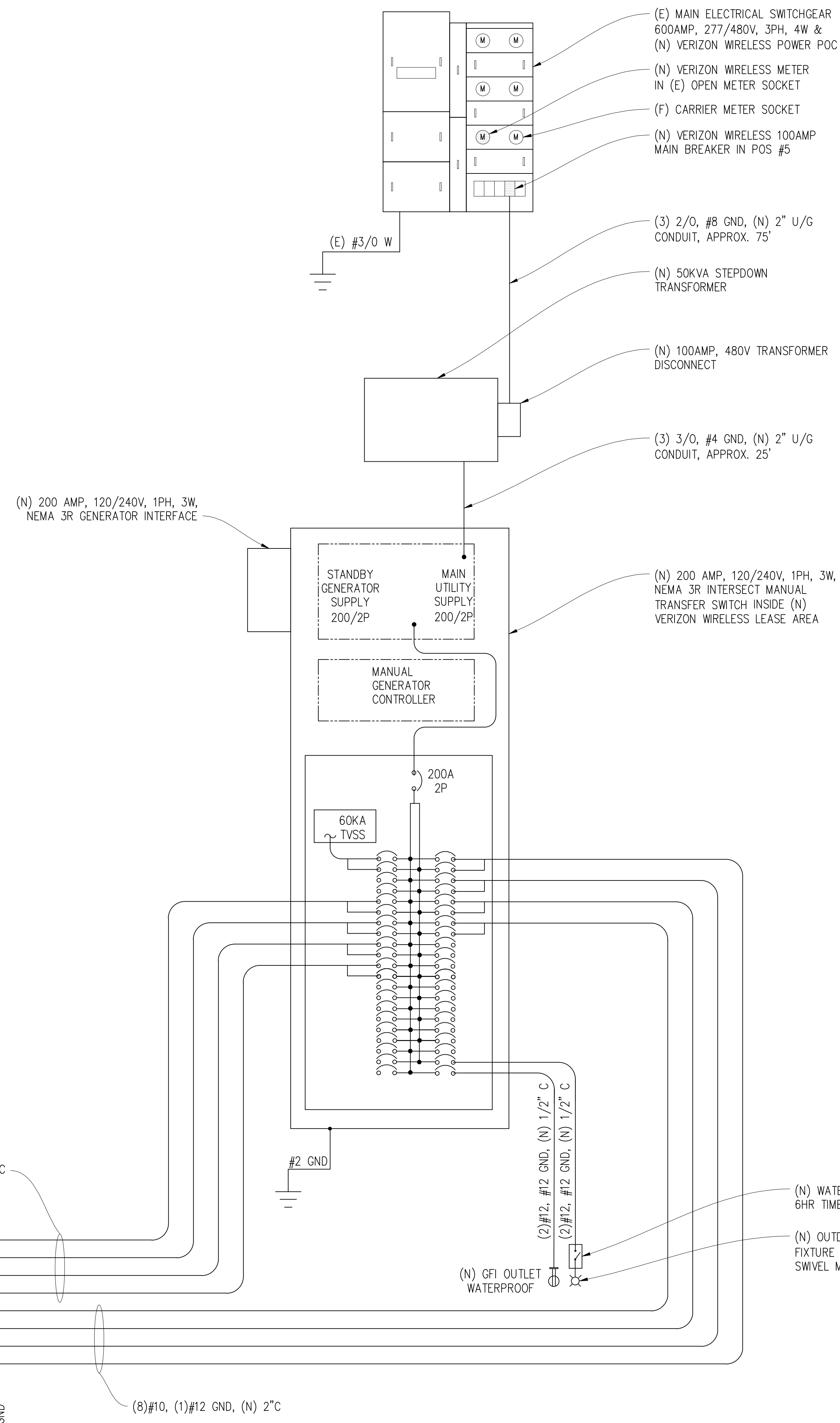
- CONTRACTOR SHALL LABEL ALL ELECTRICAL DEVICES INSTALLED OR ALTERED PURSUANT TO THIS CONTRACT PER THE FOLLOWING. LABELS SHALL BE PERMANENT BLACK ON WHITE PEEL & STICK LABEL MAKER TYPE FOR ALL SWITCH & OUTLET PLATES, CONDUITS AND CEILING FIXTURES, AND SHALL BE PHENOLIC TAG TYPE FOR PANELS, XFMR'S, PULL BOXES, ETC.; PHENOLIC TAGS SHALL BE RED IN COLOR WHERE BACKED UP BY GENERATOR
- ALL PANELS, XFMR'S AND PULL BOXES SHALL BE LABELED WITH DEVICE 'NAME', VOLTAGE(S), RATING FOR XFMR'S, AND "FED FROM" DATA.
- ALL SWITCH & OUTLET PLATES SHALL BE LABELED WITH "FED FROM" CIRCUIT DATA (PANEL NAME & CIRCUIT#); ALL GANG SWITCHES SHALL BEAR SWITCH NUMBERS BEGINNING W/#1 ON LEFT OF THE MAIN LIGHTING SWITCH FOR EACH ROOM FOR COORDINATION W/FIXTURE LABELS.
- ALL (N) OR RETROFITTED LIGHTING FIXTURES SHALL BE LABELED WITH THE "FED FROM" DATA (SWITCH#)
- ALL CONDUITS EXITING A PANEL BOARD SHALL BE LABELED "CIRCUIT(S) 'X...'" WHERE X IS/ARE THE BREAKER#(S). CONDUITS EXITING XFMR'S SHALL BE LABELED "FEEDER TO <PANEL, DEVICE>". E.G. "FEEDER TO PANEL <panel name>". CONDUITS ENTERING/EXITING A ROOM OR FLOOR SHALL BE LABELED AT THE ENTRY & EXIT (OR IN A SINGLE LOCATION IF OBVIOUS) W/"FED FROM..." & "TO PANEL/XFMR/..." DATA.
- "FED FROM: DATA = <panel name> <brkr#> EG: "PANEL X/1,3,5"

ELECTRIC LEGEND

- METER
- CIRCUIT BREAKER
- SERVICE GROUND
- WIRED CONNECTION
- TIMER SWITCH, WATERPROOF
- OUTDOOR LIGHT
- GFI OUTLET, WATERPROOF

ELECTRICAL NOTES

- ALL ELECTRICAL WORK SHALL CONFORM TO THE 2017 IEC AS WELL AS ALL ADOPTED STANDARDS, APPLICABLE STATE AND LOCAL CODES.
- CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, CONDUCTORS, PULL BOXES, TRANSFORMER PADS, POLE RISERS, AND PERFORM ALL TRENCHING AND BACKFILLING REQUIRED IN THE PLANS.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED PER PLAN SPECIFICATIONS.
- ALL CIRCUIT BREAKERS, FUSES, AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTION RATING NOT LESS THAN THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED WITH A MINIMUM OF 10,000 A.I.C. OR AS REQUIRED.
- THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES.
- ELECTRICAL WIRING SHALL BE COPPER #12 AWG MIN WITH TYPE THHN, THWN-2 OR THW-2, INSULATION RATED FOR 90°C DRY OR 70°C WET.
- ALL OUTDOOR EQUIPMENT SHALL HAVE NEMA 3R ENCLOSURE.
- ALL BURIED WIRE SHALL RUN THROUGH SCHEDULE 40 PVC CONDUIT UNLESS OTHERWISE NOTED.
- A GROUND WIRE IS TO BE PULLED IN ALL CONDUITS.
- WHERE ELECTRICAL WIRING OCCURS OUTSIDE A STRUCTURE AND HAS THE POTENTIAL FOR EXPOSURE TO WEATHER, WIRING SHALL BE IN WATERTIGHT GALVANIZED RIGID STEEL OR FLEXIBLE CONDUIT.
- WHERE PLANS CALL FOR A NEW ELECTRICAL SERVICE, PRIOR TO SUBMITTING BID, CONTRACTOR SHALL VERIFY PLAN DETAILS WITH THE UTILITY'S SERVICE PLAN & REQ'TS INCLUDING SERVICE VOLTAGE, METER LOCATION, MAIN DISCONNECTING MEANS, AND AIC REQ'T, AND SHALL OBTAIN CLARIFICATION FROM THE PROJECT ENGINEER ON ANY DEVIATIONS FOUND IN THESE PLANS.
- WHERE THESE PLANS SHOW A DC POWER PLANT, THE INSTALLATION OPERATING AT LESS THAN 50 VDC UNGROUNDED, 2-WIRE, SHALL COMPLY WITH ARTICLE 720, AS FOLLOWS:
 - POWER PLANT SHALL BE SUPPLIED BY THE WIRELESS CARRIER AS A PULL-TAG ITEM AND INSTALLED BY THE CONTRACTOR.
 - CONDUCTORS SHALL NOT BE SMALLER THAN #12 AWG COPPER MIN, CONDUCTORS FOR BRANCH CIRCUITS SUPPLYING MORE THAN ONE APPLIANCE SHALL BE 10 AWG CU MIN; CONTRACTOR SHALL SIZE CONDUCTORS BASED ON MFG'S DATA FOR THE APPLIANCES SERVED.
 - THERE ARE NO DC RECEPTACLES OR LUMINARIES ALLOWED ON THIS PROJECT. ALL CIRCUITS SHALL ORIGINATE AT AN INTEGRATED DOUBLE LUG TAP OR SOCKET TERMINATION ON AN INTEGRATED DC CIRCUIT BREAKER AT AN INDIVIDUAL RECTIFIER MODULE AND TERMINATE AT THE SPECIALIZED LUG ON THE RESPECTIVE APPLIANCE AS A SINGLE RUN OF WIRE WITHOUT SPLICES. ALL DC WIRING SHALL BE LABELED AT THE DC PLANT WITH THE APPLIANCE SERVED AND THE DC VOLTAGE.
 - ALL CABLING SHALL BE INSTALLED IN A NEAT AND WORKMAN LIKE MANNER AND SUPPORTED BY BUILDING STRUCTURE, EG. (N) CABLE TRAY OVERHEAD, IN SUCH A MANNER THAT THE CABLE WILL NOT BE DAMAGED BY NORMAL USE.



SINGLE LINE DIAGRAM

(N) PANEL SCHEDULE

| NAMEPLATE : PANEL A | | SC LEVEL : 10,000 | | VOLTS: 120V/240V, 1ø | | | | |
|---------------------|-------|--------------------|---------------|----------------------|---------------|--------------------|---------|---------|
| LOCATION : OUTSIDE | | BUS AMPS: 200A | | MAIN CB: 200A | | | | |
| ØA | ØB | LOAD DESCRIPTION | BKR AMP/ POLE | CIRCUIT NO | BKR AMP/ POLE | LOAD DESCRIPTION | LOAD VA | LOAD VA |
| 30 | | SURGE ARRESTOR | 60/2 | 1 2 | 30/2 | (N) DC POWER PLANT | 2292 | |
| | 30 | " " | " " | 3 4 | " " | " " | | 2292 |
| | | BLANK | - | 5 6 | 30/2 | " " | 2292 | 2292 |
| 2292 | | (N) DC POWER PLANT | 30/2 | 9 10 | 30/2 | " " | 2292 | 2292 |
| 2292 | 2292 | " " | 30/2 | 11 12 | " " | " " | | 2292 |
| 2292 | 2292 | " " | 30/2 | 13 14 | 30/2 | " " | 2292 | |
| 2292 | 2292 | " " | 30/2 | 15 16 | " " | " " | | 2292 |
| | | BLANK | - | 17 18 | - | BLANK | | |
| | | " " | - | 19 20 | - | " " | | |
| | | " " | - | 21 22 | - | " " | | |
| | | " " | - | 23 24 | - | " " | | |
| | | BLANK | - | 25 26 | - | " " | | |
| | | " " | - | 27 28 | - | " " | | |
| | | " " | - | 29 30 | - | " " | | |
| | | " " | - | 31 32 | - | " " | | |
| | | " " | - | 33 34 | - | " " | | |
| | | " " | - | 35 36 | - | " " | | |
| | | " " | - | 37 38 | - | " " | | |
| | | " " | - | 39 40 | 20/1 | LIGHTS | | 300 |
| | | " " | - | 41 42 | 20/1 | GFI RECEPTACLE | 180 | |
| 9198 | 9198 | PHASE TOTALS | | | | PHASE TOTALS | 9348 | 9468 |
| TOTAL VA = | 37212 | TOTAL AMPS = | 155 | | | | | |
| TOTAL KVA = | 37.21 | | | | | | | |

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ELECTRICAL PLAN

SHEET NUMBER:
E-1.1