AT&T NUMBER 15828317

AT&T SITE NAME HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST ARCADIA, FL 34266





PROJECT DESCRIPTION NEW 200'-0" SELF SUPPORT TOWER AT&T SIGNATURES

SITE INFORMATION

SITE ADDRESS: COUNTY:

1320 SW MARTHA ST ARCADIA, FL 34266

N 27' 11' 23.3905" (27.1898307') W 81' 51' 57.2163" (-81.8658934') LATITUDE (NAD 83): LONGITUDE (NAD 83): GROUND ELEVATION: 47.61' AMSL

PARCEL/MAP NUMBER:

12-38-24-0000-0096-0000 BERNARDO HERNANDEZ-VILLANUEVA AND ISAIAS HERNANDEZ PARCEL OWNER:

TOWER OWNER: TILLMAN INFRASTRUCTURE

152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019 PHONE: (212) 706-1677 EMAIL: contact@tillman.com

STRUCTURE TYPE: STRUCTURE HEIGHT (FT): SELF SUPPORT TOWER 200'-0"

POWER PROVIDER:

PHONE: 1-904-665-6250

FIBER PROVIDER:

PHONE: 1-866-326-1402

VICINITY MAP



DIRECTIONS

DIRECTION FROM SOUTHWEST FLORIDA INTERNATIONAL AIRPORT, 11000 TERMINAL ACCESS ROAD, FORT MYERS, FL 33913:

DRIVE NORTHEAST. TURN LEFT ONTO REGIONAL LANE. TURN LEFT ONTO CHAMBERLIN PARKWAY. TURN LEFT ONTO DANIELS PARKWAY/CR 876. TAKE THE I 75 NORTH RAMP TOWARD TAMPA. TAKE EXIT 164 ONTO DUNCAN ROAD TOWARD PUNTA GORDA/ARCADIA. KEEP RIGHT TO TAKE DUNCAN ROAD. TURN RIGHT ONTO SOUTHWEST HILLCREST STREET. TURN RIGHT ONTO SOUTHWEST ROBIN ROAD. TURN RIGHT ONTO SOUTHWEST MILDRED STREET. TURN LEFT ONTO SOUTHWEST SARA AVENUE. TURN RIGHT ONTO SOUTHWEST MARTHA STREET. YOU HAVE ARRIVED AT YOUR DESTINATION.

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 CODES.

PROJECT TEAM

TILLMAN INFRASTRUCTURE

TOWER OWNER /

152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019 PHONE: (212) 706-1677 EMAIL: contact@tillmanglobal.com

A+E FIRM:

ALLPRO CONSULTING GROUP, INC. 9221 LYNDON B. JOHNSON FREEWAY

SUITE 204 DALLAS, TX 75243 CONTACT: CHIYU ZHANG, P.E. OFFICE: 972-231-8893

FAX: 866-364-8375

2023 FLORIDA BUILDING CODE (2021 IBC AMENDED) 2020 NATIONAL ELECTRICAL CODE

NFPA 37 (STANDARD FOR THE INSTALLATION AND USE OF STATIONARY COMBUSTION ENGINES AND GAS TURBINES)

TOWER IS DESIGNED FOR 144 MPH BASIC AND 30 MPH WIND SPEED WITH O" ICE, RISK CATEGORY II AND EXPOSURE CATEGORY C



SHEET NO.	DESCRIPTION	REVISION
T-1	TITLE SHEET	0
1 OF 1	RAWLAND TOWER SURVEY	0
C-1	SITE PLAN	0
C-1A	ENLARGED SITE PLAN	0
C-2	COMPOUND PLAN	0
C-2A	GRADING PLAN	0
C-2B	IMPERVIOUS COVER EXHIBIT	0
C-2C	EXISTING DRAINAGE AREA MAP	0
C-2D	PROPOSED DRAINAGE AREA MAP	0
C-3	ELEVATION	0
C-4	GRADING DETAILS	0
C-5	EROSION CONTROL DETAILS	0
C-6 - C-6.1	FENCE LAYOUT & DETAILS	0
C-7 - C-7.1	AT&T SITE SIGNAGE DETAILS	0
C-8	CATTLE GUARD DETAILS	0
D-1	EQUIPMENT LAYOUT & DETAILS	0
D-2	ANTENNA LAYOUT	0
D-3	VWUC SPECIFICATIONS	0
D-4	EQUIPMENT DETAILS	0
D-5	ANTENNA AND RRH PLATFORM SPECIFICATIONS	0
D-6	GENERATOR SPECIFICATIONS	0
D-6.1	GENERATOR TANK SPECIFICATION	0
D-7	EQUIPMENT CONCRETE PAD AND DETAILS	0
E-1	UTILITY PLAN	0
E-1A	ENLARGED UTILITY PLAN	0
E-2	ELECTRICAL PANEL SCHEDULE, DIAGRAM AND NOTES	0
E-3	ELECTRICAL RISER DIAGRAM	0
G-1	GROUNDING PLANS	0
G-2	EQUIPMENT GROUNDING PLAN AND RISER DIAGRAM	0
G-3	GROUNDING DETAILS AND NOTES	0
G-4	GROUNDING DETAILS	0
GN-1	GENERAL NOTES	0
GN-2	GENERAL NOTES	0
GN-3	GENERAL NOTES	0
GN-4	GENERAL NOTES	0
L-1	LANDSCAPE PLAN	0

DRAWING INDEX

DRAWING SCALE

THESE DRAWINGS ARE SCALED TO FULL SIZE AT 22"X34" AND HALF SIZE AT 11"X17". CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE DESIGNER / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR MATERIAL ORDERS OR BE RESPONSIBLE FOR THE SAME. CONTRACTOR SHALL USE BEST MANAGEMENT PRACTICE TO PREVENT STORM WATER POLLUTION DURING CONSTRUCTION.

SCOPE OF WORK

THIS PROJECT CONSISTS OF:

- NEW 60'-0"X60'-0" 6' CHAIN-LINK FENCED COMPOUND INSIDE NEW 100'-0"X100'-0" LEASE AREA
- NEW 200'-0" TALL SELF SUPPORT TOWER NEW AT&T VWUC & GENERATOR ON 9'-6"X12'-0" CONCRETE PAD
- NEW AT&T ANTENNAS ON SELF SUPPORT TOWER







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO:	23-2337
DRAWN BY:	RM
CHECKED BY:	CZ
	DEVICIONS

		14510113	
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

NOT VALID WITHOUT

SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

> SITE ADDRESS 1320 SW MARTHA ST

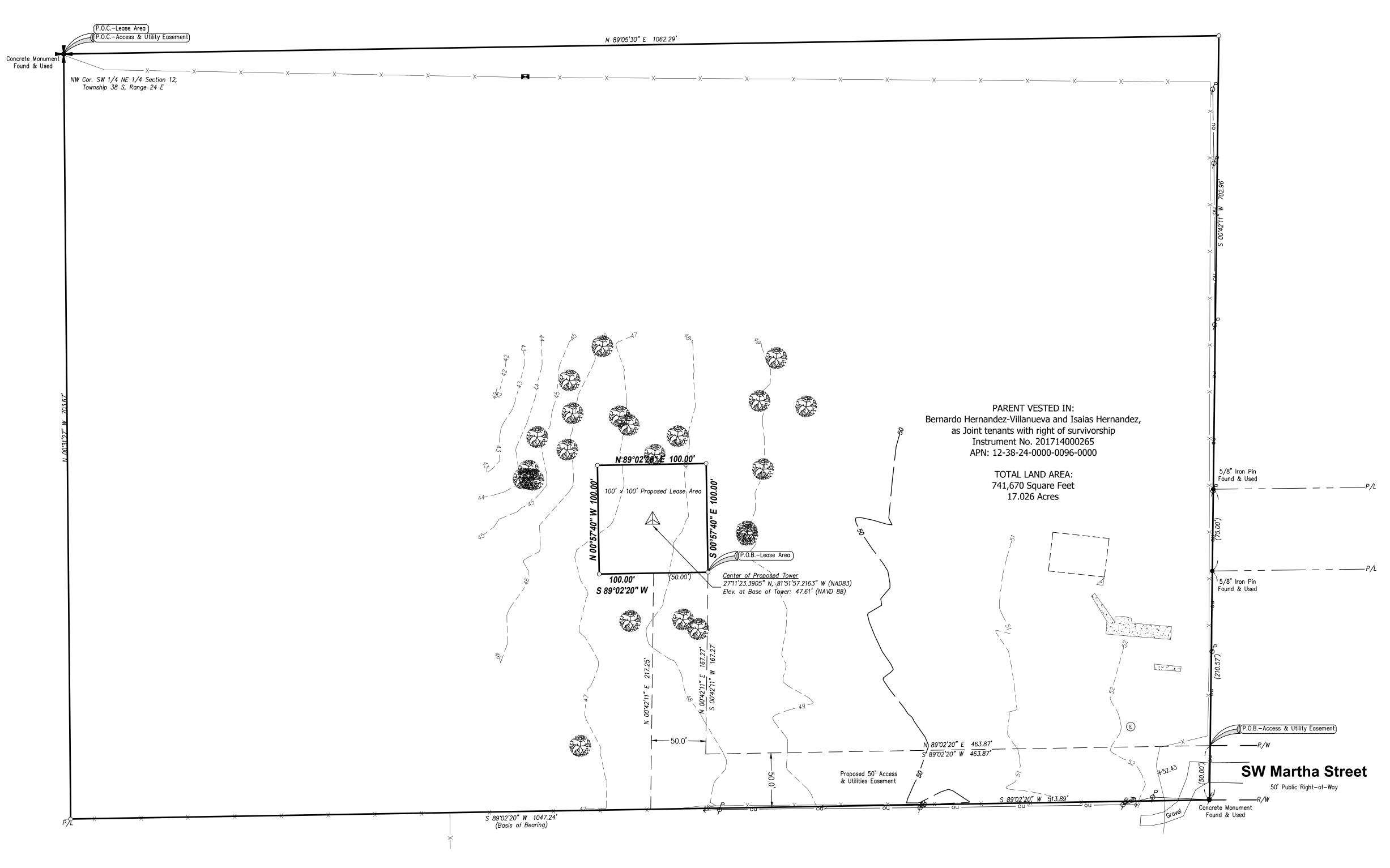
> > SHEET TITLE:

ARCADIA FL TI-05363

TITLE SHEET

SHEET NUMBER:

T-1



PROPOSED LEASE AREA DESCRIPTION:

A tract of land located in the SW 1/4 of the NE 1/4 of Section 12, Township 38 South, Range 24 East, of DeSoto County, Florida, being more particularly described as follows;

COMMENCING at a concrete Monument, being the NW corner of the SW 1/4 of the NE 1/4 of Section 12, THENCE North 89 degrees 05 minutes 30 seconds East, along the South line of Hillcrest Subdivision as shown on Plat Book 6, Page 5, of the DeSoto County Records, for a distance of 1062.29 feet; THENCE South 00 degrees 42 minutes 11 seconds West, for a distance of 652.96 feet to a point on the Northerly right of way of SW Martha Street, a 50' public right—of—way; THENCE South 89 degrees 02 minutes 20 seconds West, for a distance of 463.87 feet; THENCE North 00 degrees 42 minutes 11 seconds East, for a distance of 167.27 feet to the POINT OF BEGINNING;

THENCE South 89 degrees 02 minutes 20 seconds West, for a distance of 100.00 feet; THENCE 00 degrees 57 minutes 40 seconds West, for a distance of 100.00 feet; THENCE North 89 degrees 02 minutes 20 seconds East, for a distance of 100.00 feet; THENCE South 00 degrees 57 minutes 40 seconds East, for a distance of 100.00 feet to the POINT OF BEGINNING;

Said tract of land containing 1,000 square feet (0.022 Acres) of land, more or less.

WESTCOR LAND TITLE INSURANCE COMPANY COMMITMENT NO. TIL-158881-C - SCHEDULE A:

All that certain land situate in DeSoto County, Florida, to wit:

Parcel ID: 12-38-24-0000-0096-0000

The North 16.9 acres of the West 1042.5 feet of the South ½ of the NE ¼ of Section 12, Township 38 South Range 24 East, DeSoto County, Florida, excepting therefrom the East 1597.50 feet thereof.

Being a portion of the same property conveyed to Bernardo Hernandez-Villanueva and Isaias Hernandez, as joint tenants with right of survivorship in Warranty Deed from Eugene P. Heitman, a single man dated January 5, 2017 and recorded January 17, 2017 in Instrument No. 201714000265.

PROPOSED ACCESS & UTILITY EASEMENT DESCRIPTION:

A 50 foot access and utility easement located the SW 1/4 of the NE 1/4 of Section 12, Township 38 South, Range 24 East, of DeSoto County, Florida, being more particularly described as follows;

COMMENCING at a concrete Monument, being the NW corner of the SW 1/4 of the NE 1/4 of Section 12, THENCE North 89 degrees 05 minutes 30 seconds East, along the South line of Hillcrest Subdivision as shown on Plat Book 6, Page 5, of the DeSoto County Records, for a distance of 1062.29 feet; THENCE South 00 degrees 42 minutes 11 seconds West, for a distance of 652.96 feet to the POINT OF

THENCE continuing along the same bearing, a distance of 50.00 feet to a concrete monument; THENCE South 89 degrees 02 minutes 20 seconds West, for a distance of 513.89 feet; THENCE North 00 degrees 42 minutes 11 seconds East, for a distance of 217.25 feet; THENCE North 89 degrees 02 minutes 20 seconds East, for a distance of 50.00 feet; THENCE South 00 degrees 42 minutes 11 seconds West, for a distance of 167.27 feet; THENCE North 89 degrees 02 minutes 20 seconds East, for a distance of 463.87 feet to the POINT OF BEGINNING;

Said easement containing 34,035 square feet (0.781 Acres) of land, more or less.

MISCELLANEOUS NOTES:

- 1. This is not a boundary survey for the parent tract.
- 2. Elevations determined by GPS observation. A Stonex S900A triple—frequency GPS receiver was used to perform all or part of this survey. Vertical datum was adjusted to OPUS. This survey was done in
- accordance to the current Federal Geodetic Control Standards.
- 3. Horizontal Datum: NAD83 Vertical Datum: NAVD88 4. Date of fieldwork: September 13, 2023.

FLOOD ZONE:

By scaled map location and graphic plotting only, the subject property appears to lie entirely in Zone X—Unshaded (Areas of minimal hazard) according to the Flood Insurance Rate Map for the County of DeSoto, Community Panel No. 12027C0178C, Effective Date November 6, 2023.

BASIS OF BEARING:

The basis for all bearings shown hereon is the South line of subject property, known as being S 89°02'20" W, per Instrument No. 202114005826 of the DeSoto County Records.

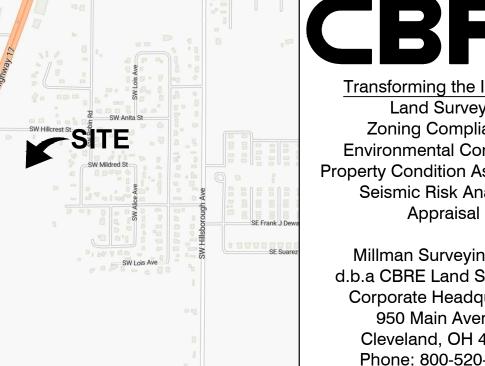
GROSS LAND AREA:

1,000 Square Feet 0.022 Acres

BENCHMARKS

On-Site Benchmark Mag Nail set at 52.43' Elevation (NAVD88) certify to Allpro Consulting Group, Inc. the following:

I hereby certify that this drawing correctly depicts the description shown hereon as prepared under my direction and this drawing was made in accordance with minimum technical standards adopted by the Florida Division of Consumer Services Agriculture Division of the Florida Administrative Code, pursuant to Section 5J-17.050-052 F.A.C.



Transforming the Industry Land Surveys Zoning Compliance **Environmental Consulting Property Condition Assessment** Seismic Risk Analysis

> Millman Surveying, Inc. d.b.a CBRE Land Surveying Corporate Headquarters 950 Main Avenue Cleveland, OH 44113 Phone: 800-520-1010 Fax: 330-342-0834 www.millmanland.com landsurveyors@cbre.com

SYMBOL LEGEND

R/W — Right—of—Way P/L - Adjoiner Property Line P.O.B. - Place/Point of Beginning P.O.C. - Place/Point of Commencement - Monumentation Found as Noted

VICINITY MAP

NOT TO SCALE

– 5/8" Iron Pin w/Cap Set Stamped "LB 7351" - Section Corner Found as Noted

- Proposed Tower

 Water Meter - Electric Manhole - Benchmark

___ou__ — Overhead Utilities

___ _ Concrete Area

Utility Pole —X—— - Fence (As Noted) SPECIAL PURPOSE SURVEY

ALLPRO CONSULTING GROUP, INC.

9221 Lyndon B. Johnson Freeway Suite 204 Dallas, TX 75243

TI-OPP-29300 1320 Southwest Martha Street City of Arcadia County of DeSoto State of Florida Zip Code 34266

CERTIFICATION:

I, Timothy Leigh Fish, a Florida Professional Surveyor & Mapper, hereby

Latitude and Longitude values for the center of the above referenced tower are accurate to within +/-20 feet horizontally:

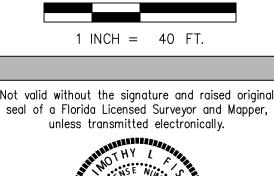
Horizontal Datum:

27 degrees 11 minutes 23.3905 seconds North 81 degrees 51 minutes 57.2163 seconds West Longitude:

The field work was completed on September 13, 2023.

Date of Plat or Map: September 15, 2023.

Florida Professional Surveyor and Mapper No. LS 6819 Florida Certificate of Authorization No. LB 7351

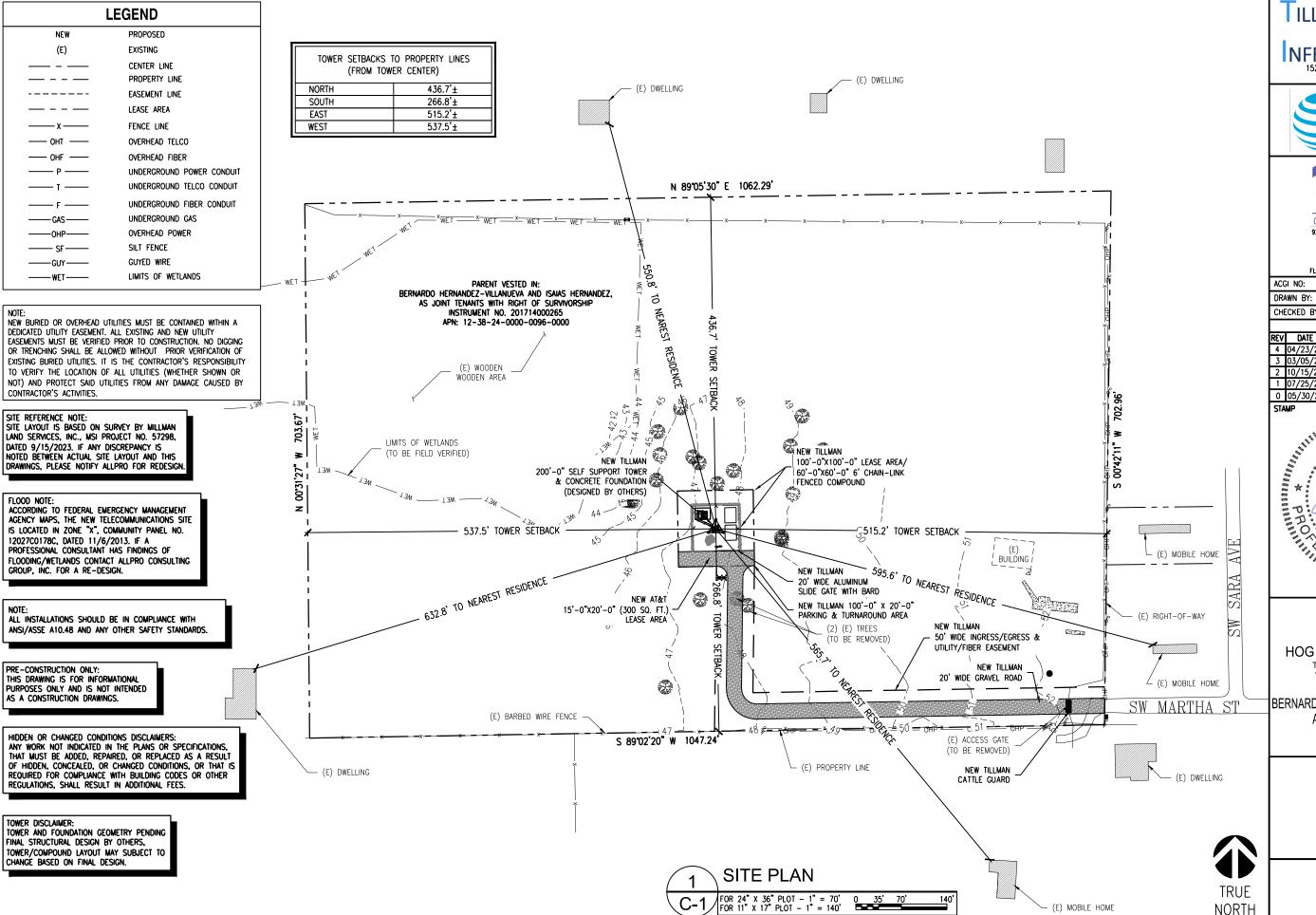


NORTH

GRAPHIC SCALE



	REVISION HISTORY					
	REVISION HISTORY			Sheet No. 1 of		
Y:	DATE:	COMMENT:) 	ieet No.	UI I	
LA	10/18/2023	TITLE				
LA	06/06/2024	REVISED LEASE AREA		MSI Project	No 57298	
LA	01/29/2025	COMMENTS	PC:	TRM	110.07200	
LA	02/05/2025	SURVEYOR COMMENTS	PM:	CLA	Drafter:	CLA









CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337 RM

CHECKED BY: CZ

REVISIONS

REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

STAMP

NO 86873

STATE OF

NOT VALID WITHOUT NOT VALID WITHOUT P.E. STAMP & SIGNATURE

> SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

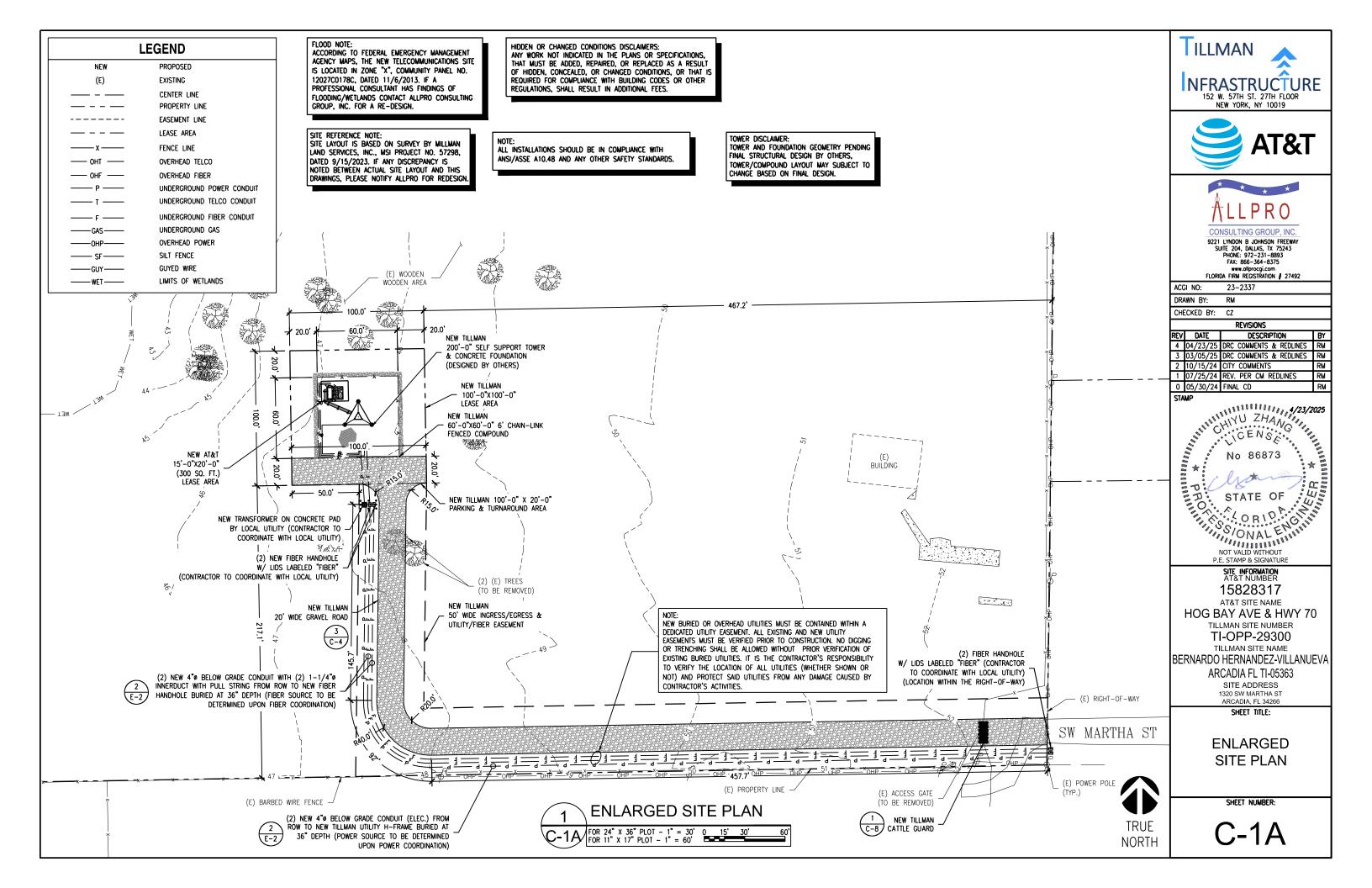
ARCADIA FL TI-05363

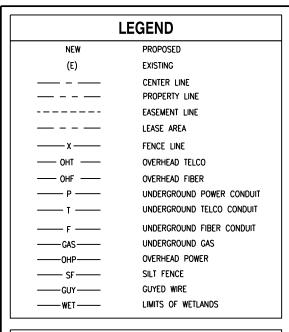
SITE ADDRESS

1320 SW MARTHA ST

SHEET TITLE:

SITE PLAN





NOTE:
NEW BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE REFERENCE NOTE: SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN

FLOOD NOTE:

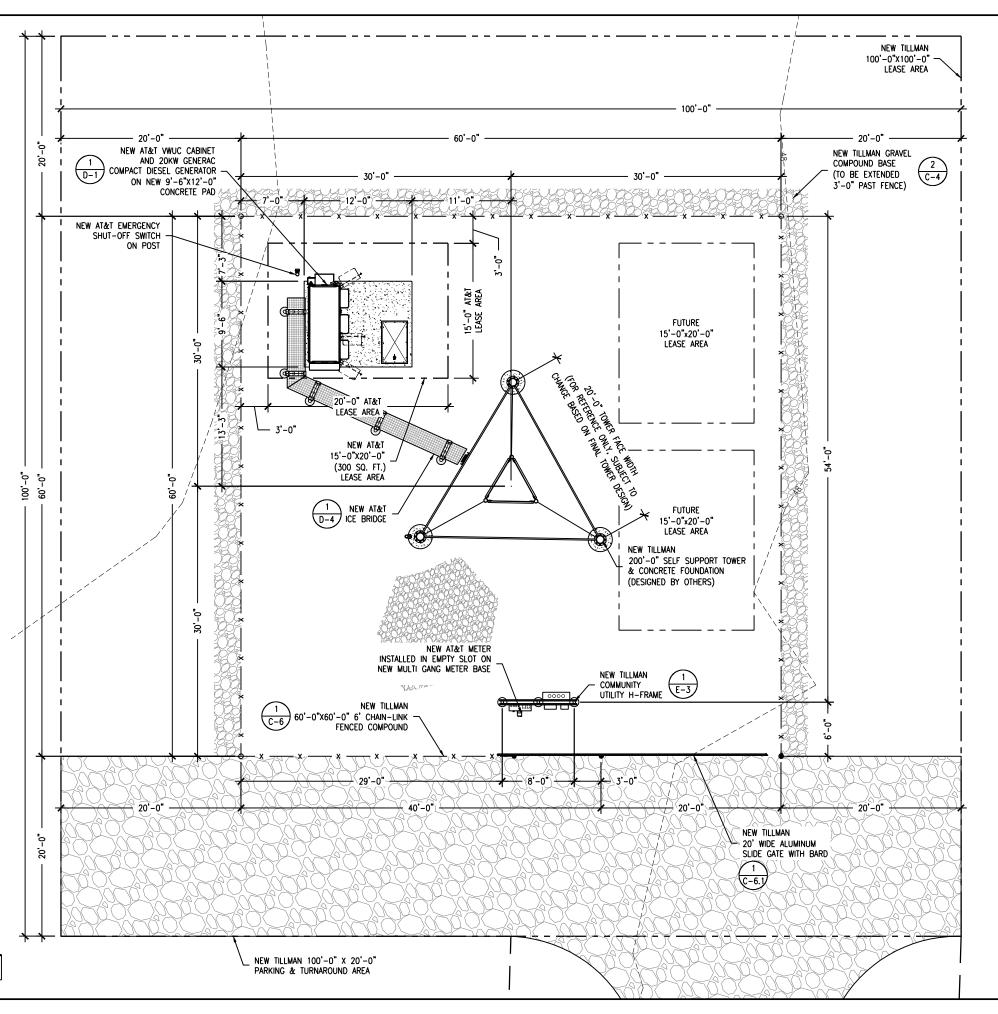
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

HIDDEN OR CHANGED CONDITIONS DISCLAIMERS: ANY WORK NOT INDICATED IN THE PLANS OR SPECIFICATIONS, THAT MUST BE ADDED, REPAIRED, OR REPLACED AS A RESULT OF HIDDEN. CONCEALED, OR CHANGED CONDITIONS, OR THAT IS REQUIRED FOR COMPLIANCE WITH BUILDING CODES OR OTHER REGULATIONS, SHALL RESULT IN ADDITIONAL FEES.

TOWER DISCLAIMER:
TOWER AND FOUNDATION GEOMETRY PENDING FINAL STRUCTURAL DESIGN BY OTHERS. TOWER/COMPOUND LAYOUT MAY SUBJECT TO CHANGE BASED ON FINAL DESIGN.











CONSULTING GROUP, INC.

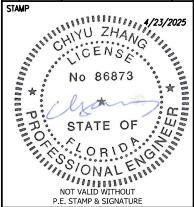
9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ

REVISIONS REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

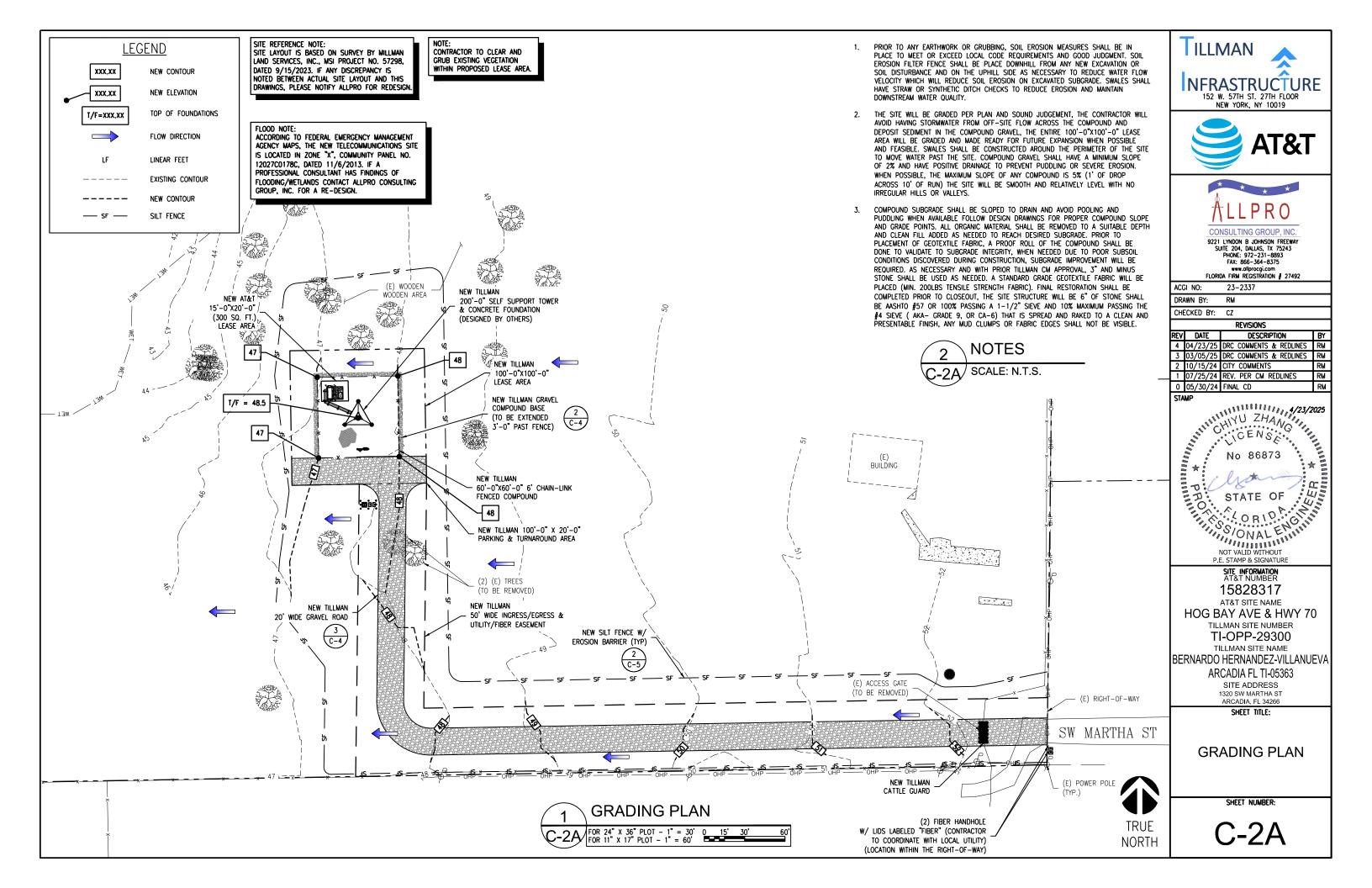
SHEET TITLE:

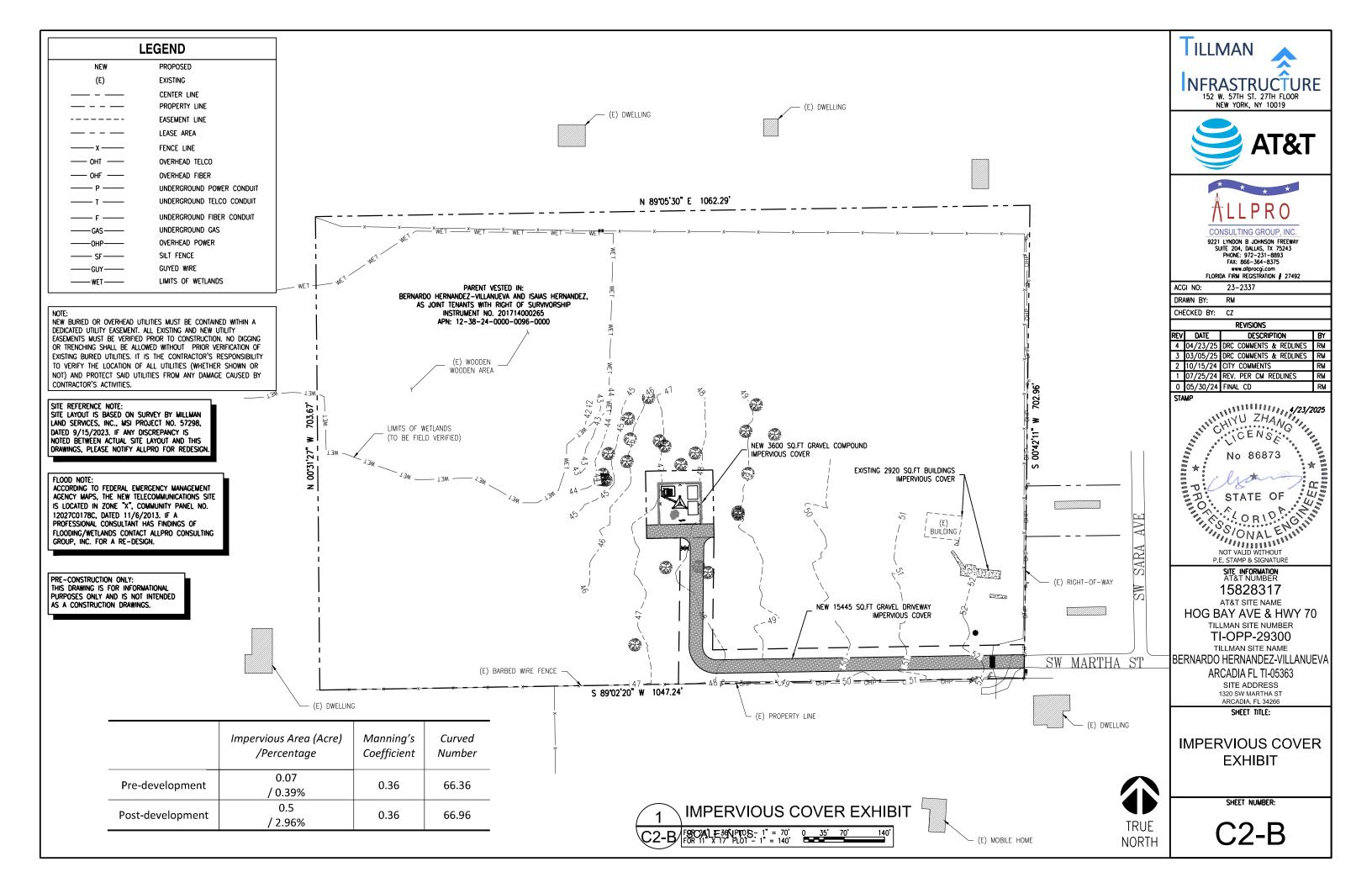
COMPOUND **PLAN**

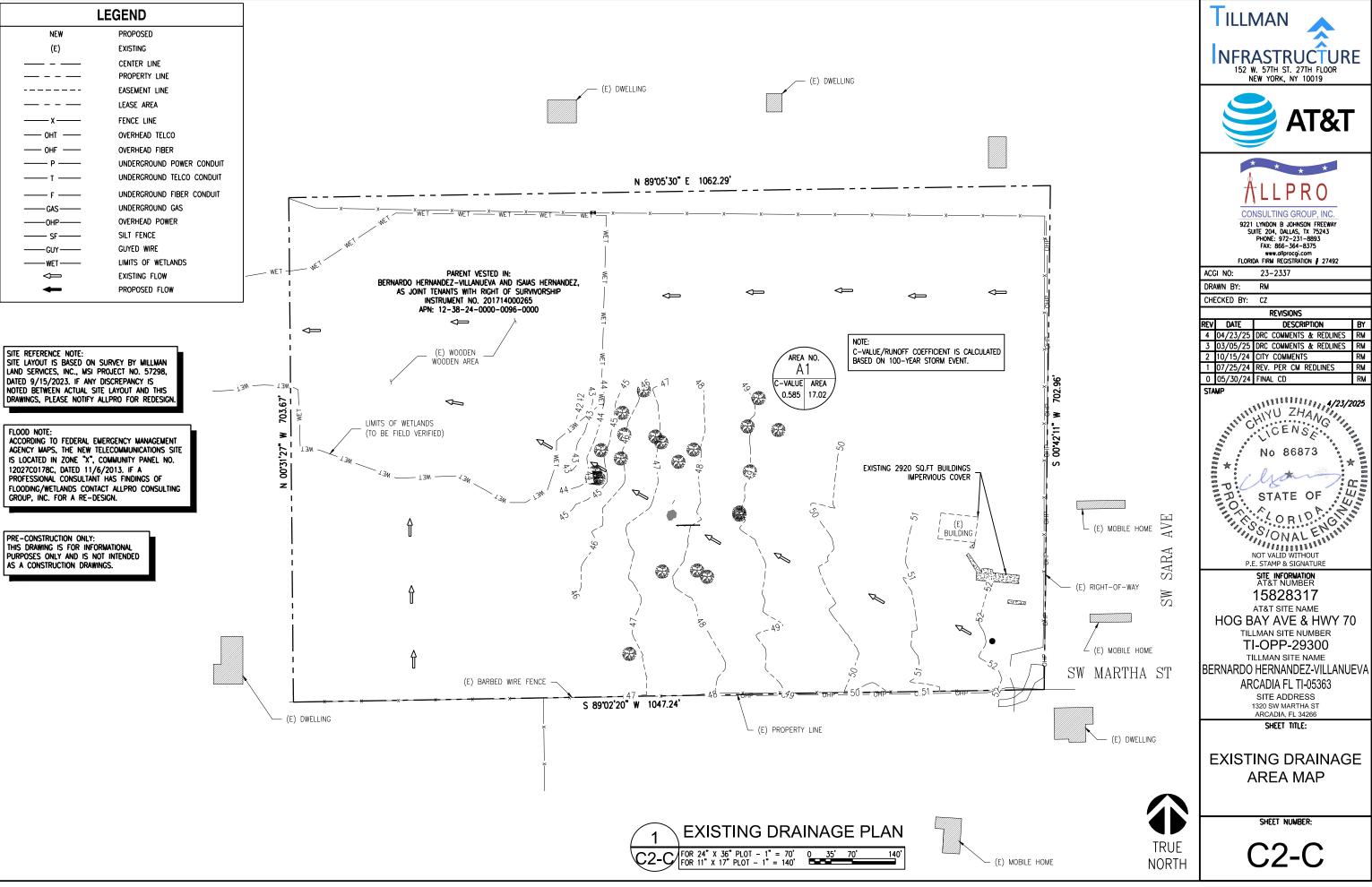
SHEET NUMBER:

TRUE

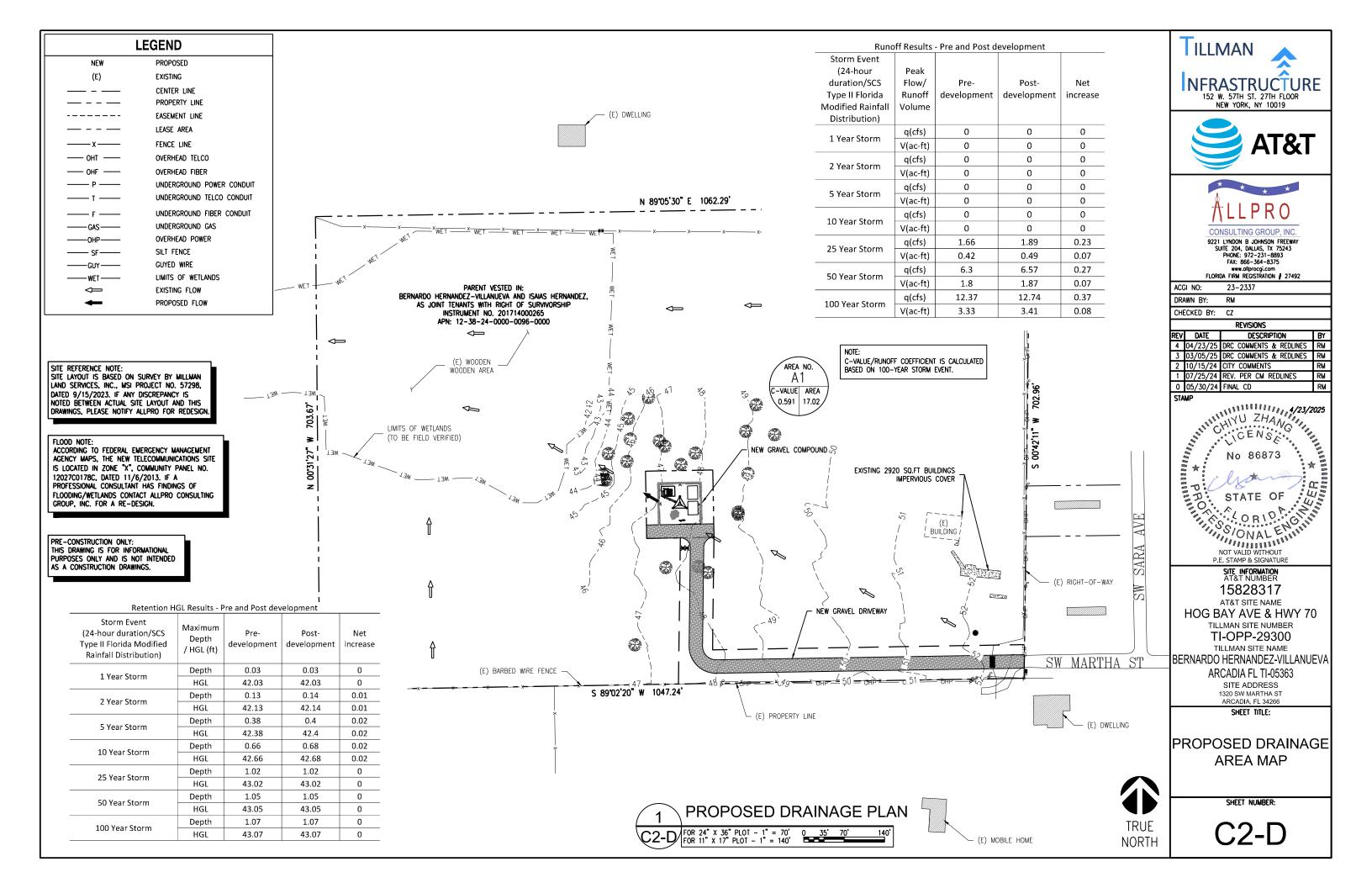
NORTH











NOTE: PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE NEW LOADS. STRUCTURAL ANALYSIS BY OTHERS.

CLIMBERS SHOULD NOT LATCH OR TIE THEIR SUPPORT LANYARD OR GEAR

GEAR TO OR ATTACH TO TOWER STRUCTURAL MEMBERS THAT HAVE VISIBLE

ON TO ANTENNAS, RADIOS, ANTENNA MOUNTS ETC WITHOUT PROPER

BOLTING AND CONNECTION TO THE LARGER STRUCTURE.

EVALUATION. THEY SHOULD ONLY TIE TO THEIR SUPPORT LANYARDS OR

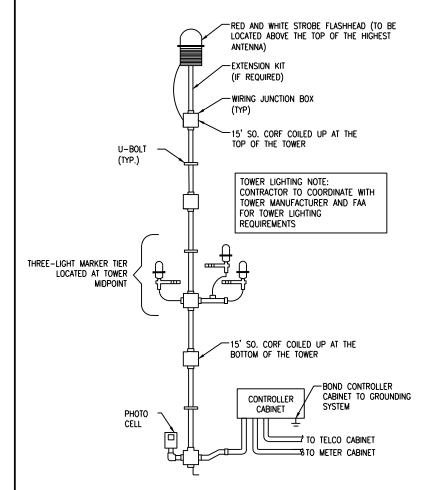
MOUNT ANALYSIS BY OTHERS. NO ANTENNAS OR EQUIPMENT SHALL BE INSTALLED WITHOUT THE APPROVAL OF A

STRUCTURAL ENGINEER.

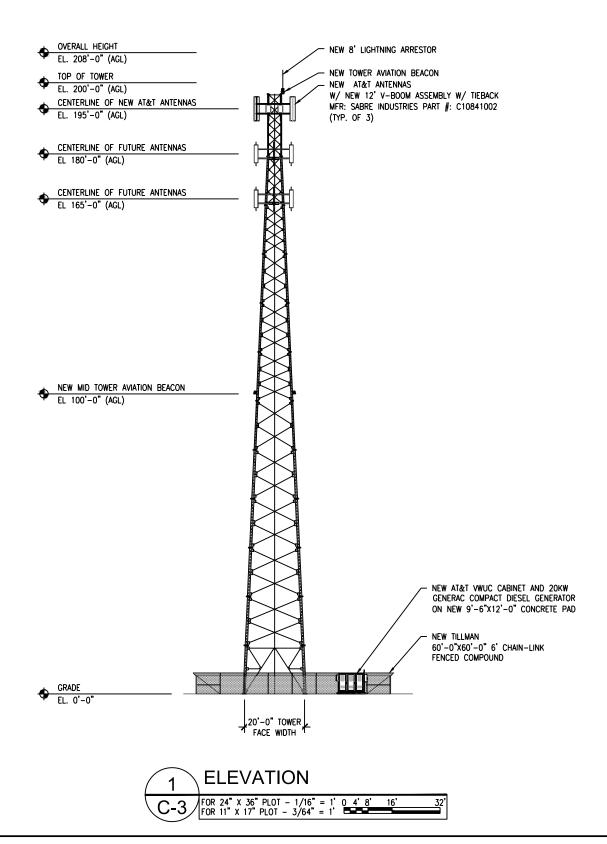
NOTE: ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

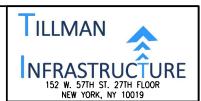
NOTE:
NEW ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL
CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR
SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF
EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE
CONTACT ALLPRO CONSULTING GROUP INC. FOR DESIGN REVISION PRIOR TO
ANY NEW ANTENNA INSTALLATION.

FLOOD NOTE: ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.



TOWER LIGHTING DETAIL SCALE: N.T.S.









9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

> SITE ADDRESS 1320 SW MARTHA ST

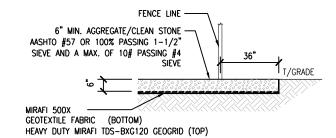
> > SHEET TITLE:

ELEVATION

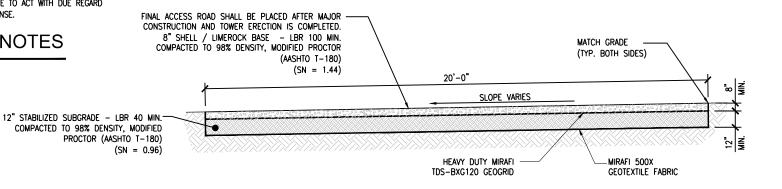
SITE WORK:

- BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE WELL DRAINED AT ALL TIMES.
- PERFORM ALL SURVEY, LAYOUT, STAKING AND MARKING TO ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR
- LOCATE AND CLEARLY FLAG TREES, VEGETATION AND EXISTING SITE CONDITIONS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO ESTABLISH INSPECTIONS AND APPROVAL PROCESS FOR ALL SITE WORK.
- EXCAVATION AND STRUCTURAL BACKFILL FOR TOWER FOUNDATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE GEOTECHNICAL REPORT. CONTRACTOR IS REQUIRED TO OBTAIN A COPY OF THE REPORT PRIOR TO CONSTRUCTION.
- SUITABLE NON-STRUCTURAL BACKFILL: EXCAVATED INORGANIC MATERIAL, COHESIVE AND NON-COHESIVE MATERIALS, INCLUDING GRAVEL, SAND, SILT, CLAY, AND COMBINATIONS THEREOF FREE FROM REFUSE, FROZEN LUMPS, STONES OR ROCKS LARGER THAN 3 INCHES
- UNSUITABLE BACKFILL: TOP SOIL, HIGH AND MODERATELY PLASTIC SILTS AND CLAY, MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES.
- GEOTEXTILE FABRIC (AND GEOGRID, WHEN REQUIRED) SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS.
- REMOVE ALL FORMWORK RESULTING FROM CONCRETE CONSTRUCTION PRIOR TO BACKFILL.
- ALL SUITABLE FILL MATERIAL SHALL BE INSTALLED IN HORIZONTAL LAYERS NOT EXCEEDING A LOOSE DEPTH OF 9 INCHES AND SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY PER THE MODIFIED PROCTOR TEST, ASTM D1557.
- WHEN SOFT, YIELDING OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED AT THE REQUIRED TRENCH BOTTOM ELEVATION, OVER-EXCAVATE THE TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.
- UTILIZE SUITABLE FILL MATERIALS RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILL, ACCESS ROAD, SITE GRADING AND FOR THE REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- PERFORM ALL FINISHED GRADING TO PROVIDE SMOOTH, EVEN SURFACE AND SUBSURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING PRIVATE UTILITIES.
- WHEN EXCAVATING IN THE AREA OF EXISTING UTILITIES, THE CONTRACTOR SHALL USE REASONABLE CARE IN PROTECTING SUCH UTILITIES. THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY OF ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW CONSTRUCTION.
- DAMAGE TO PUBLIC OR PRIVATE UTILITIES SHALL BE REPORTED TO THE PROJECT MANAGER AND THE OWNER OF THE UTILITY IMMEDIATELY. ANY DAMAGE RESULTING FROM THE CONTRACTOR'S NEGLIGENCE OR FAILURE TO ACT WITH DUE REGARD SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

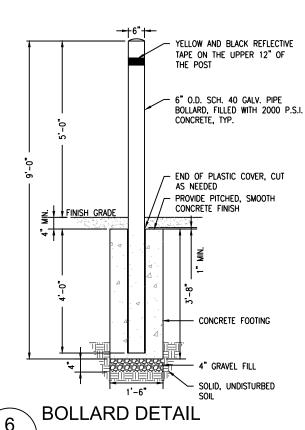








GRAVEL DRIVEWAY TYP. SECTION SCALE: N.T.S. C-4



SCALE: N.T.S.







9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

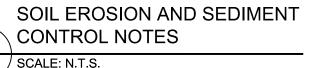
BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363 SITE ADDRESS

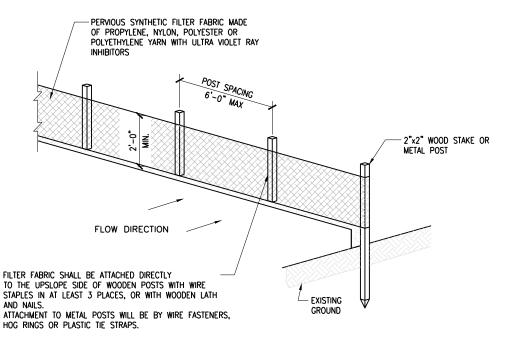
1320 SW MARTHA ST SHEET TITLE:

GRADING

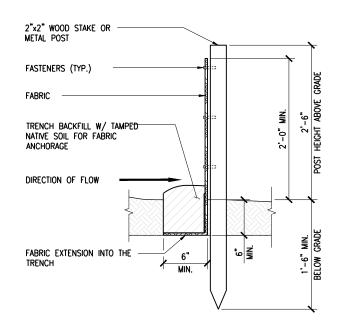
DETAILS

- ALL VEGETATIVE AND STRUCTURAL EROSION CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE APPLICABLE STATE ADOPTED "PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND THE "STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" OF THE STATE ENVIRONMENTAL PROTECTION AGENCY.
- A SOIL EROSION CONTROL FENCE SHALL BE INSTALLED BEFORE DISTURBING THE GROUND AND SHALL BE PROVIDED AS SHOWN ON THE PLAN. THE CONDITION OF THE FENCE SHALL BE INSPECTED REGULARLY AND AFTER EVERY RAINSTORM THAT MIGHT PRODUCE RUNOFF. DAMAGED OR DETERIORATED ITEMS SHALL BE REPLACED AND MAINTAINED IN AN EFFECTIVE CONDITION
- SOIL EROSION CONTROL MEASURES SHALL BE INCLUDED IN CONTRACTOR BID AND
- THE ENTIRE SITE SHALL BE GRADED SO THAT NO STORM WATER RUNOFF AND LIKEWISE SOIL SEDIMENT CAN FLOW UNRESTRICTED FROM THE SITE
- ALL INLETS, STRUCTURES, PIPES, SWALES, AND ROADS SHALL BE KEPT CLEAN AND FREE OF DIRT AND SILT
- MAINTAIN SOIL EROSION CONTROL MEASURES THROUGH THE DURATION OF THIS **PROJECT**
- SEDIMENT DEPOSITS SHALL BE REMOVED WHEN REACHING ONE HALF THE HEIGHT OF THE BARRIER
- ALL SOIL EROSION CONTROL MEASURES SHALL REMAIN IN PLACE UNTIL ALL DISTURBED EARTH HAS BEEN PAVED OR VEGETATED
- ANY EXCESS TOPSOIL THAT IS TO BE STOCKPILED FOR A PERIOD LONGER THAN 2 WEEKS SHALL BE PROTECTED BY EXCAVATING A TRENCH COMPLETELY AROUND THE STOCKPILE TO PREVENT THE ESCAPE OF SOIL MATERIAL THROUGH STORM WATER RUNOFF. STOCKPILES THAT ARE TO REMAIN LONGER THAN 14 DAYS SHALL BE SEEDED WITH AN APPROPRIATE GROUND COVER
- 10. TO PREVENT SOIL FROM LEAVING THE SITE ON CONSTRUCTION VEHICLE WHEELS, TEMPORARY GRAVEL ROADS AT WORK ENTRANCES SHALL BE CONSTRUCTED AND SHALL EXTEND INTO JOB SITE. THE EXISTING PAVEMENT SURFACES SHALL BE INSPECTED DAILY FOR SOIL DEBRIS AND SHALL BE CLEANED WHEN NECESSARY
- REPLACE SOIL EROSION CONTROL MEASURES WITH SEED, SOD AND TOPSOIL AT THE COMPLETION OF THE PROJECT
- 12. SOIL EROSION CONTROL MEASURES SHALL BE REMOVED AND PROPERLY DISPOSED OF WHEN PROJECT IS COMPLETED



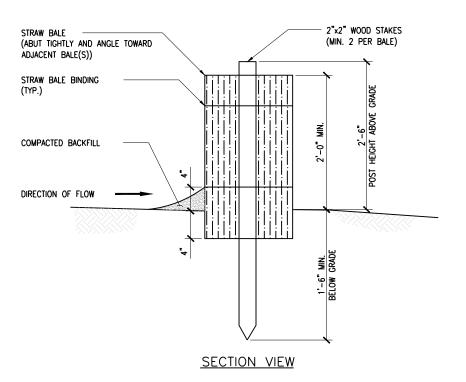


ISOMETRIC VIEW



SECTION VIEW

EROSION CONTROL - SILT FENCE SCALE: N.T.S.



EROSION CONTROL - STRAW BALE (OPTIONAL)

C-5 SCALE: N.T.S.







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM CHECKED BY: CZ

REVISIONS REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

NO 86873

NO 86873

NO 86873

NO RIDE GRANDING

NOT VALID WITHOUT

NOT VALID WITHOUT STAMP

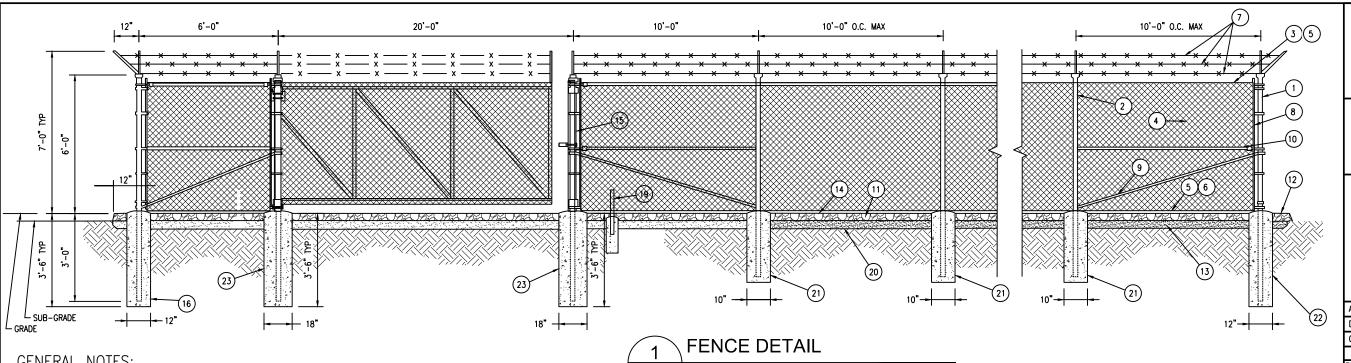
SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

EROSION CONTROL **DETAILS**



SCALE: N.T.S.

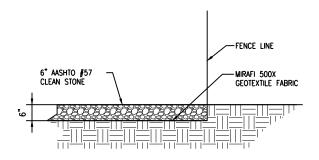
GENERAL NOTES:

- 1. INSTALL FENCING PER ASTM F-567
- 2. INSTALL SWING GATES PER ASTM-900
- 3. LOCAL ORDINANCE OF BARBED WIRE PERMIT REQUIREMENT SHALL BE COMPLIED IF REQUIRED
- 4. POST & GATE PIPE SIZES ARE INDUSTRY STANDARDS. ALL PIPE TO BE 2" STD. GAUGE (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)
- 5. ALL OPEN POSTS SHALL HAVE END-CAPS
- 6. USE GALVANIZED HOG-RING WORE TO MOUNT ALL SIGNS
- 7. ALL SIGNS MUST BE MOUNTED ON INSIDE OF FENCE FABRIC
- 8. USE COMMERCIAL GRADE MATERIALS ONLY

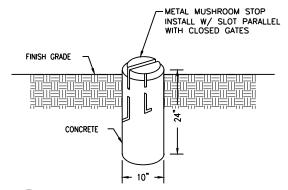
REFERENCE NOTES:

- CORNER END OR PULL POST 4" NOMINAL SCHEDULE 40 PIPE.
- 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 3 TOP KAIL & D
- FABRIC" 9GA CORE WIRE SIZE 2' MESH, CONFORMING TO ASTM-A392
- 5) TIE WIRE: MINIMUM II GA GALVANIZED STEEL AT POSTS AND RAILS A SINGLE WRAP OF FABRIC TIE END AT TENSIONS WIRE BU HOG RINGS SPACED AX. AT 24"
- (6) TENSION WIRE: 9GA GALVANIZE STEEL
- BARBED WIRE: DOUBLE STRAND 12 1/2" OD TWISTED WIRE TO MATCH WITH FABRIC 14GA, 4PT. BARBS SPACE ON APPROX. 5" CENTERS
- (8) STRETCHER BAR
- (9) 3/8" DIAGONAL ROD WITH GALVANIZED STEEL TURNBUCKLE OR DIAGONAL THREADED ROD
- (10) FENCE CORNER POST BRACE: 1 5/8" DIAZ. EACH CORNER EACH WAY
- (11) 1" MAXIMUM CLEARANCE FROM GRADE

- 2" FINISH OR AS DETERMINED BY CONSTRUCTION MANAGER DURING BID WALK
- 4" COMPACTED 95% BASE MATERIAL OR AS DETERMINED BY CONSTRUCTION MANAGER
- (14) FINISH GRADE SHALL BE UNIFORM AND LEVEL
- GATE POST 4" SCHEDULE 40 PIPE. FOR GATE WIDTHS UP THRU 7 FEET OR 4 FEET FOR DOUBLE SWING GATE, PER ASTM-F1083
- (16) GATE FRAME: 2" STD. GAUGE PIPE, PER ASTM-F1083
- (17) GATE FRAME: 2" STD. GAUGE PIPE, PER ASTM-F1083
- (18) GATE DIAGONAL GALVANIZED STEEL 1 1/2" PIPE
- 19 DUCK BILL OPEN GATE HOLDER. VERIFY LOCATION IN FIELD PRIOR TO INSTALLATION
- (20) GEOMETRIES FABRIC
- (21) LINE POST: CONCRETE FOUNDATION (2500 PSI)
- (22) CORNER POST: CONCRETE FOUNDATION (2500 PSI)
- (23) GATE POST: CONCRETE FOUNDATION (2500 PSI)
- (24) STYMIE LOCK OR EQUIVALENT



GRAVEL COMPOUND DETAIL SCALE: N.T.S.



MUSHROOM STOP DETAIL 3 SCALE: N.T.S.





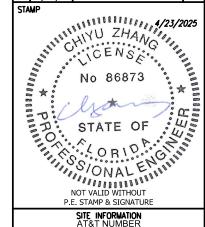


9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

	REVISIONS
CHECKED BY:	CZ
DRAWN BY:	RM
ACGI NO:	23-2337

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
		DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300

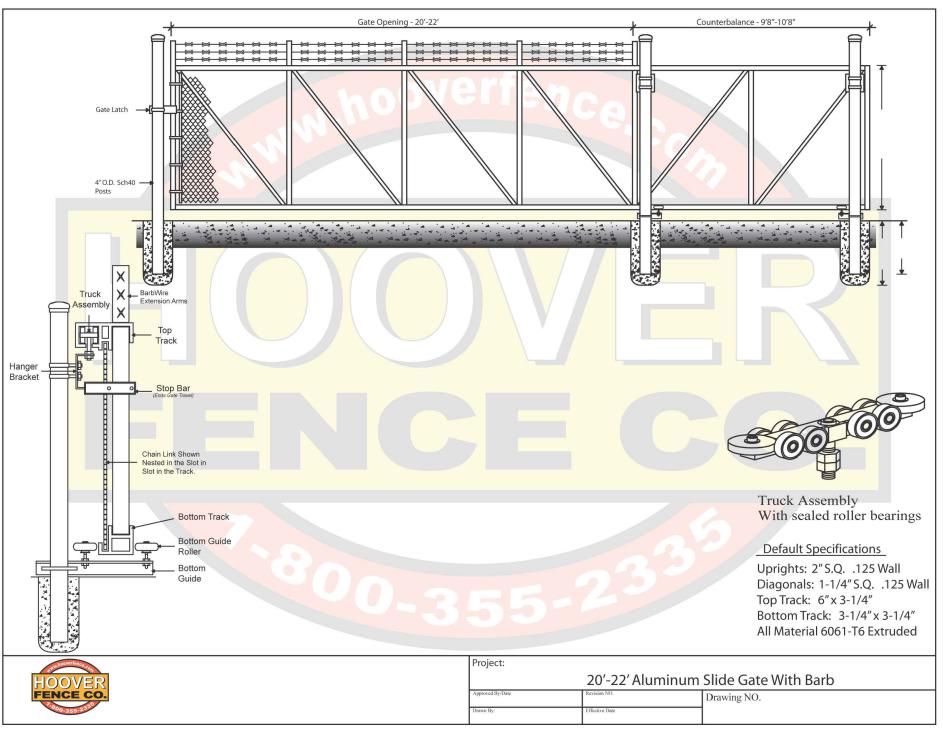
TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

> ARCADIA FL TI-05363 SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

FENCE LAYOUT & DETAILS

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE
SIGNATURE AND SEAL OF ALLPRO CONSULTING GROUP, INC. AND/OR IT'S ENGINEERS.











CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

ACGI NO: DRAWN BY: RM

CHECKED BY: CZ REVISIONS

REV	DATE	DESCRIPTION	BY
		DRC COMMENTS & REDLINES	RM
		DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

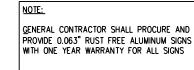
SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

FENCE LAYOUT & DETAILS

SHEET NUMBER:

C-6.1





1 NOTICE - RF SIGN (BLUE)

12" x 18" DIGITAL PRINT MOUNTED TO

0.063" THICK ALUMINUM



SITE NAME: SITE NUMBER: FCC Tower Registration #

SITE ADDRESS:

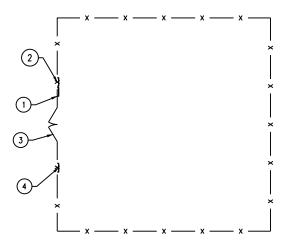
In case of Emergency, dial 911

NO TRESSPASSING

800-821-5825

2 SITE OWNER SIGN

30" X 36" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



SEE TYPICAL SIGNS AND SPECIFICATIONS DETAIL ON THIS SHEET FOR SIGN DESIGNATIONS.



③ TOWER CLIMBING SIGN DETAIL

12" x 18" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM



Posted in accordance with Federal Communications Commission rules on antenna tower registration 47CFR 17.4(g)

(4) ASR SIGN

10" x 12" DIGITAL PRINT MOUNTED TO 0.063" THICK ALUMINUM

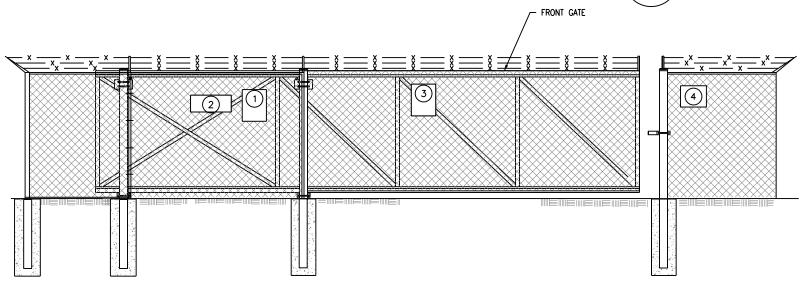


(5) CATTLE SIGN (AS REQUIRED)

SITES WITH LIVESTOCK SHALL HAVE THIS SIGN ON THE RANCH GATE/ACCESS GATE

SIGN PLACEMENT PLAN VIEW SCALE: N.T.S.





SIGNAGE NOTES:

SIGNS SHALL FABRICATED FROM CORROSION RESISTANT PRESSED METAL, AND PAINTED WITH LONG LASTING UV RESISTANT COATING.

SIGNS (EXCEPT WHERE NOTED OTHERWISE) SHALL B MOUNTED TO THE TOWER, GATE, AND FENCE USING A MINIMUM OF 9 GAUGE ALUMINUM WIRE, HOG RINGS (AS UTILITIES IN FENCE INSTALLATIONS) OR BRACKETS WHERE NECESSARY, BRACKETS SHALL BE OF SIMILAR METAL AS THE STRUCTURE TO AVOID GALVANIC CORROSION.







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

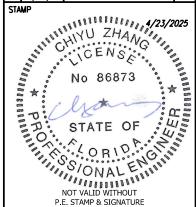
ACGI NO: DRAWN BY: RM

CHECKED BY: CZ

REVISIONS

		112131313	
REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
٥	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

SITE SIGNAGE **DETAILS**



Section 1: Standard Cell Site Signage

- > AT&T owned sites require the following signs:
- 1. Gate sign
 - 15" x 20" aluminum gate sign

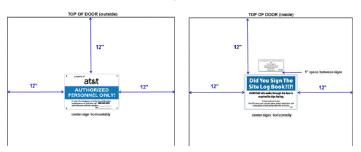


2. Door sign (shelter or tenant improvement room)

8" x 12" door sign



Recommended layouts for main shelter door

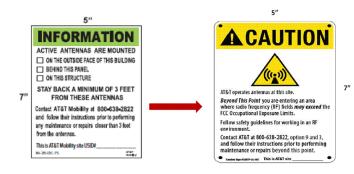


Page 2 of 12

NEW INFO-2 SIGN POLICY

Effective immediately, Information 2 signs shall be retired from AT&T sign inventory and 5"x7" Caution Sign 2C sign will

Vendors/AT&T Field technicians shall remove existing "Information Sign 2" sign/s that currently exist at the site (i.e. parapet mount) and replace them with the following "Caution Sign 2C sign which has 5"x7" dimension.



INFORMATION Sign 2

Caution Sign 2C

3. FCC Custodial License sign (note change in address for FCC Group effective 9/2017)



4. No Trespassing signs







> AT&T <u>leased</u> sites (not owned by AT&T) only require a door and FCC Custodial License

<u>Combination sign packages for shelters and WIC (Walk-In-Cabinet):</u>
➤ Available from Excel Signs, item # ATT-SWIC-DC-3KIT. Includes door, log book and FCC **Custodial Letter signs**

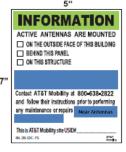


Page 3 of 12

NEW INFO-2 SIGN POLICY (Existing Historical Signs)

If Information sign 2 sign/s are not able to be removed (i.e. existing stocks or damage risk to structure, the verbiage will be covered as example on bottom right as well as adding "Near Antenna" with a marker





Covered INFORMATION Sign 2

Section 4: FCC Signs

AT&T C&E Mobility Program Office

> Antenna Structure Registration (ASR) sign 1. 8" x 12" sign

> INFORMATION 1234567

FCC custodial letter

1. 3" x 6.5" decal sign (available through Excel Sign, part #ATT DC CUS 653)



<u>OR</u>

2. 8.5" x 11" standard paper

THE CUSTODIAN OF THIS STATION'S LICENSE IS: ATTENTION TO: FCC GROUP 208 S. AKARD STREET, RM 1016 DALLAS, TEXAS 75202 855-699-7073

FCCMW@att.com

AT&T C&E Mobility Program Office

ATT-002-290-359 Supplement

Section 6: Miscellaneous signs

The following signs are optional and may be posted as needed:

Log Book sign
 Posting on inside of shelter door recommended



Padlock decal

Can be affixed to padlocks to indicate an AT&T lock

Can also be used to label items such as electrical disconnect boxes, electrical meters, etc 3. 1" x 8" decal if ordered from Excel Sign



Gate signs





- Door Exit sign
 May be posted on the inside of shelter doors at sites currently not equipped with an Exit sign
 - (or emergency light/exit sign combination) above the door Sign has glow in the dark letters and border to aid visibility
 - 3. Excel part # EXT-128-DL









9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

ACGI NO: DRAWN BY: RM CHECKED BY: CZ

REVISIONS

REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES RM 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363 SITE ADDRESS

1320 SW MARTHA ST

SHEET TITLE:

AT&T SITE SIGNAGE **DETAILS**

SHEET NUMBER:

C - 7.1

<u>Diesel generators installed indoors</u>, such as a shelter generator room, shall have signs affixed to the entrance door to the room the generator is housed in <u>and</u> one of the long sides of the generator tank. If signs will not properly adhere to the tank they may be installed on the end of the generator

Yellow EH&S sign
 Diesel Fuel, Combustible, No Smoking signs (Excel combination sign is recommended)

Recommended layout for a 4' x 7' generator room door

atst DIESEL FUEL COMBUSTIBLE NO SMOKING NO OPEN FLAMES

Preferred Tank Signage Location Alternate Tank
Signage Location

Per AT&T EH&S, fixed generators are required to have signage posted as follows:

AT&T identification sign, 8" x 12" or 3" x 6.5"
 Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0)
 Allow EHS 8 sign.

Section 3: Fixed Generator Signage (continued)

housing (vellow box on far right photo below)

Door Signage

ILLMAN NFRASTRUCTURE 152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019





9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337

DRAWN BY: RM

CHECKED BY: CZ REVISIONS

REV	DATE	DESCRIPTION	B
4	04/23/25	DRC COMMENTS & REDLINES	R۱
3	03/05/25	DRC COMMENTS & REDLINES	RN
2	10/15/24	CITY COMMENTS	RN
1	07/25/24	REV. PER CM REDLINES	RN
0	05/30/24	FINAL CD	RI

STAMP



NOT VALID WITHOUT P.E. STAMP & SIGNATURE SITE INFORMATION AT&T NUMBER

15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

AT&T SITE SIGNAGE **DETAILS**

SHEET NUMBER:

Section 2: Outdoor Cabinet Site Signage

Outdoor sites require the same gate and no trespassing signs as indoor sites if owned by AT&T. In place of the door sign the cabinets must have the following signs:

- Single cabinet sites require a sign, such as a door sign, that indicates AT&T as the owner and has provisions for adding the site number along with the MNRC contact number
 Sign must be affixed to the side of the cabinet (front, rear or side) which is most visible when approaching the cabinet from the site access point
 8" x 12" decal acceptable for outdoor cabinet



- Multiple cabinet sites require the sign specified in the previous bullet attached to the side of each cabinet on the end of the lineup. In addition, a sign indicating AT&T as the owner must be affixed to the front or rear of every cabinet (not both).
 1. AT&T identification sign is to be affixed to the most visible area (front or rear) when approaching the cabinets from the site access point
 3" x 6.5" decal is acceptable for front or rear of outdoor cabinets



Example of AT&T identification signs on outdoor cabinets (signs on each end of lineup



Miscellaneous enclosures such as AC electrical boxes and meter housings, shall have an AT&T identification sign attached. Acceptable signs are engraved phenolic labels, the 3" x 6.5" sign shown above or the padlock decal shown on page 12 or an equivalent type of sign indicating AT&T ID

AT&T C&E Mobility Program Office

ATT-002-290-359 Supplement

- Diesel generators installed outdoors, such as on a pad in a compound, shall have signs affixed to the tank on both of the long sides of the generator. For belly tank style generators, if signs will not properly adhere to the tank they may be installed on the generator housing (alternate locations shown in vellow boxes below)
- in yellow boxes below)

 1. AT&T identification sign, 8° x 12° or 3° x 6.5°

 2. Hazard diamond sign, 15° x 15° with 5° numbers (1-2-0)

 3. Yellow EH&S sign, approximately 10° x 10°

 4. Diesel Fuel, Combustible, No Smoking (Excel combination sign is recommended)

<u>Mote</u>: for stand-alone tank style generators (not belly tank) the only required sign on the generator itself is the AT&T identification sign. All 4 signs listed above will be installed on the stand-alone fuel tank

Belly Type Tank Style Generator





NOTE: if ribs on the generator tank do not allow enough room to place signs, it is acceptable to affix the signs to the generator housing

Stand-alone Type Tank Style

Page 8 of 12







Section 3: Fixed Generator Signage (continued)

Per AT&T EH&S, fixed generators are required to have the following signage:

1. AT&T identification sign, 8" x 12" or 3" x 6.5"







ATT-002-290-359 Supplement

2. Yellow EH&S sign



Fuel type, Combustible (Diesel), Flammable (Propane & Natural Gas) and No Smoking signs (individual signs or the Excel combination sign shown below are acceptable). Fuel tank capacity is optional







4. Hazard diamond sign, 15" x 15" with 6" numbers (1-2-0) Diesel only



AT&T C&E Mobility Program Office

ATT-002-290-359 Supplement

Section 3: Fixed Generator Signage (continued)

Diesel generator signs may be purchased in a kit from Excel Signs (link below). The kit contains 2 of each required sign and provides all of the signage needed for a diesel generator site

Excel Sign Diesel Generator Combo Pack



Diesel Generator Combo Pack Consists of: (2) Diesel Fuel 15x12 Decals (2) EH&S 11x11 Decals (2) NFPA Pre-printed 120 15x15 Decals (2) ATT Mobility 6.5x3 Logo Decals

Natural gas and propane generators signage requirements are identical to diesel generators with the exception that the Hazard Diamond sign is <u>not required</u> unless mandated by the Authority Having Jurisdiction (AHJ). Combination signs are available for both natural gas and propane through Excel sign. A combo sign pack is also available for propane generators.

Excel Sign Propane Generator Combo Pack



ropane Generator Combo Pack (2) Propane Fuel 15x12 Decals (2) EH&S 11x11 Decals (2) NFPA Pre-printed 240 15x15 Decals (2) ATT Mobility 6.5x3 Logo Decals

Page 9 of 12

DETAILS BY OTHERS NOTE:
DETAILS SHOWN ON THIS PAGE WERE PROVIDED
BY OTHERS AND ARE NOT CARRIED UNDER THE SIGNATURE AND SEAL OF ALLPRO CONSULTING GROUP, INC. AND/OR IT'S ENGINEERS.

ILLMAN NFRASTRUCTURE
152 W. 57TH ST. 27TH FLOOR
NEW YORK, NY 10019





9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

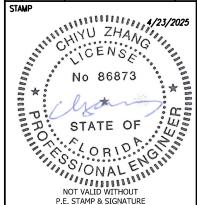
ACGI NO: 23-2337 RM

DRAWN BY: CHECKED BY: CZ

REVISIONS

RΕV	DATE	DESCRIPTION	б
4	04/23/25	DRC COMMENTS & REDLINES	RN
3	03/05/25	DRC COMMENTS & REDLINES	RN
2	10/15/24	CITY COMMENTS	RN
1	07/25/24	REV. PER CM REDLINES	RN
0	05/30/24	FINAL CD	RN

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

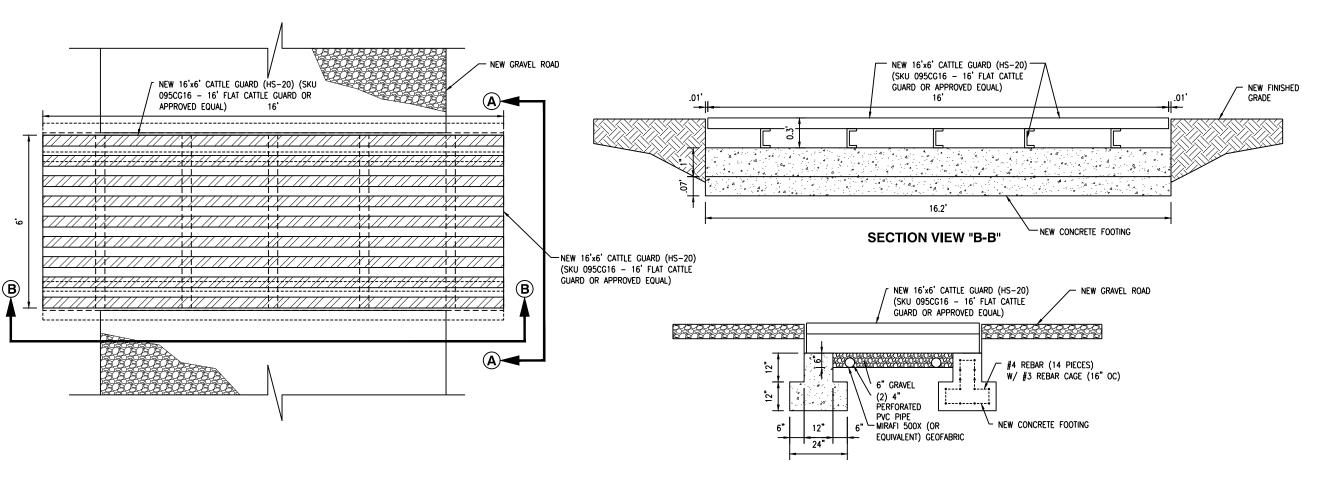
SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

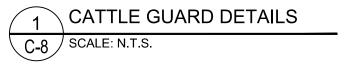
CATTLE **GUARD DETAILS**

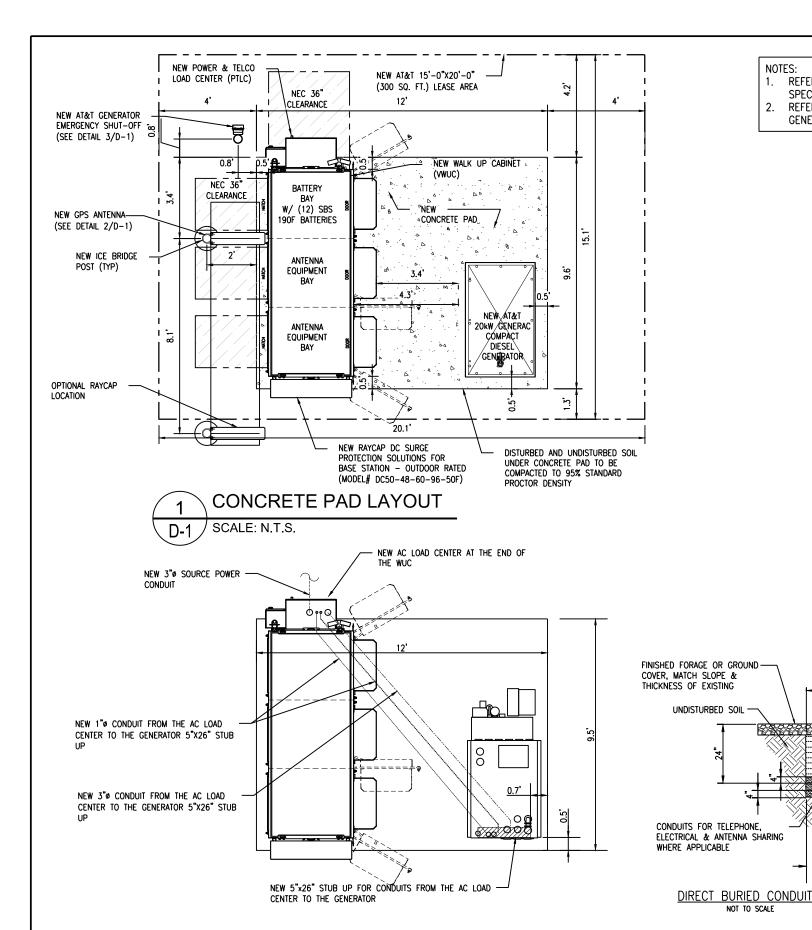
SHEET NUMBER:

CATTLE GUARDS ARE DESIGNED TO SUPPORT THE WEIGHT OF VEHICLES, AND THEIR LOAD-BEARING CAPACITY VARIES DEPENDING ON THE MATERIALS AND CONSTRUCTION. THEY ARE TYPICALLY RATED TO HANDLE LOADS FROM STANDARD PASSENGER VEHICLES UP TO HEAVY FARM EQUIPMENT. WITH RATINGS RANGING FROM 10 TO 20 TONS OR MORE. FOR PUBLIC ROADS, AASHTO (AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS) STANDARDS OFTEN DICTATE AN H-20 LOAD RATING, MEANING THE CATTLE GUARD CAN SUPPORT UP TO 16,000 POUNDS PER AXLE.



SECTION VIEW "A-A"





NOTES:

1. REFER TO D-3 FOR VWUC **SPECIFICATIONS**

TRENCH

3" MIN (TYP)

-CAUTIONARY TAPE

COMPACTED BACKFILL

IMPORTED SOIL

NOTE 1)

REQUIREMENTS

(SEE NOTE 1)

W/ SATISFACTORY NATIVE OR

-COMPACTED SAND (SEE

COMPACTED SAND BED

WITH LOCAL UTILITY COMPANY

* CONDUIT SIZE, TYPE, QUANTITY AND

SEPARATION DIMENSIONS TO BE VERIFIED

REFER TO ATTACHMENTS FOR GENERATOR SPECIFICATIONS

BATTERY SPECIFICATIONS:

ENERSYS POWERSAFE SBS-190F BATTERY 12V 190AH FRONT TERM

SKU / OSI ITEM NUMBER: SBS-190F

CHEMISTRY SEALED LEAD ACID

NOMINAL VOLTAGE: 120 NOMINAL CAPACITY: 190.0AH TERMINALS:

DIMENSIONS (L X W X H): 22.10 X 4.90 X 12.40

WEIGHT (POUNDS): 132.3

1. LEAN CONCRETE, RED COLORED

COMPACTED SAND

TOP, MAY BE USED IN PLACE OF

RIGID STEEL TO

PVC ADAPTOR

UNDERGROUND CONDUIT STUB-UP
NOT TO SCALE







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

ACGI NO: DRAWN BY: RM

CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
		DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
٥	05/30/24	FINAL CD	RM

STAMP

(RIGID STEEL CONDUIT PLUG FOR

-RIGID STEEL CONDUIT

SPARE CONDUIT)

COUPLING

RIGID STEEL

-PVC SCHEDULE 40 SIZE

AS SHOWN ON LAYOUTS

CONDUIT



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

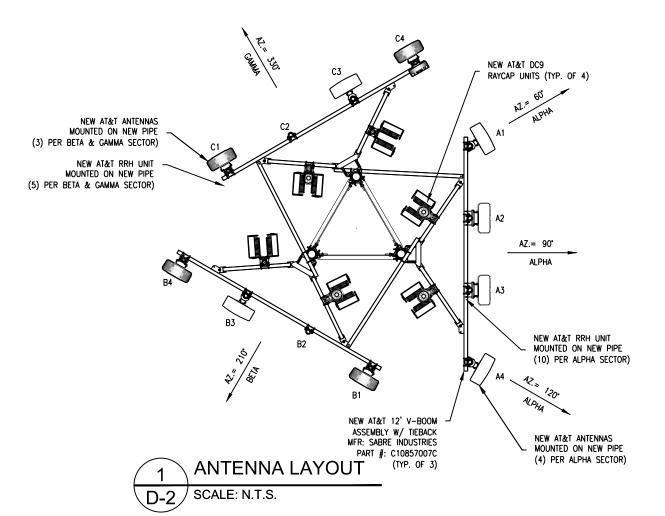
SHEET TITLE:

EQUIPMENT LAYOUT & **DETAILS**

SHEET NUMBER:

CONCRETE PAD CONDUIT ROUTING

SCALE: N.T.S.



NEW ANTENNA PLACEMENT LOCATION TO BE FIELD VERIFIED BY GENERAL CONTRACTOR PRIOR TO CONSTRUCTION TO AVOID ANY INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS. IF INTERFERENCE OR SHADOWING OF EXISTING ANTENNAS IS DISCOVERED DURING FIELD VERIFICATION, PLEASE CONTACT ALLPRO CONSULTING GROUP INC. FOR DESIGN REVISION PRIOR TO ANY NEW ANTENNA INSTALLATION.

CLIMBERS NOTE: CLIMBERS SHOULD NOT LATCH OR TIE THEIR SUPPORT LANYARD OR GEAR ON TO ANTENNAS, RADIOS, ANTENNA MOUNTS ETC WITHOUT PROPER EVALUATION. THEY SHOULD ONLY TIE TO THEIR SUPPORT LANYARDS OR GEAR TO OR ATTACH TO TOWER STRUCTURAL MEMBERS THAT HAVE VISIBLE BOLTING AND CONNECTION TO THE LARGER STRUCTURE.

> PRIOR TO ATTACHING ANTENNAS AND MOUNTING SECTIONS, TOWER AND TOWER FOUNDATION MUST BE ANALYZED BY A LICENSED STRUCTURAL ENGINEER TO VERIFY TOWER IS CAPABLE OF SUPPORTING THE NEW LOADS. STRUCTURAL ANALYSIS BY OTHERS.

MOUNT ANALYSIS BY OTHERS. NO ANTENNAS OR EQUIPMENT SHALL BE INSTALLED WITHOUT THE APPROVAL OF A STRUCTURAL ENGINEER.

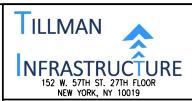
ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

> CABLE NOTE: CONTRACTOR TO VERIFY AT&T MARKET STANDARD & LENGTHS PRIOR TO ORDERING COAX OR HYBRIFLEX CABLE

THE LATEST ANTENNA DESIGN IS TO BE REFERENCED PRIOR TO TOWER WORK TO VERIFY THE LATEST EQUIPMENT IS ACCOUNTED FOR.

				PROP	OSED ANTI	ENNA CONFIGURATION AND CABLE S	CHEDULE			
SECTOR	POS	TECH	ANTENNA	ANTENNA € HEIGHT	AZ	TMA/RRU	DC SURGE AND DISTRIBUTION	CABLE TYPE	CABLE LENGTH	DOWN TILTS
	1	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		60°	INTEGRATED WITHIN: AIR6419 B77C INTEGRATED WITHIN: AIR6419 B77D		(4) 1" (WR-VG66ST-BRD) (2) 3/8" (FB-L98B-235; 24-PAIR)		2
A	2	LTE 700/1900/AWS 5G 850	ANDREW 2NN2HH-33B-R4	- 195' AGL	90°	RRH 4890 B25/B66 RRH 4890 B25/B66 RRH 4490 B5/B12A			200'	1
	3	LTE 700/1900/AWS	ANDREW 2NN2HH-33B-R4		195 AGL	90°	RRH 4494 B14/B29 RRH 4490 B5/B12A RRH 4494 B14/B29			
	4	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		120°	INTEGRATED WITHIN: AIR6419 B77C INTEGRATED WITHIN: AIR6419 B77D				2
	1	LTE 700/1900/AWS 5G 850	ANDREW NNH4-85B-R6	- - 195' AGL				(2) 1" (WR-VG66ST-BRD) (1) 3/8" (FB-L98B-235; 24-PAIR)		1
В	2						DC9-48-60-24-8C-EV		200'	
В	3	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)		210°	INTEGRATED WITHIN: AIR6419 B77G INTEGRATED WITHIN: AIR6419 B77D				2
	4	LTE 700/LTE	ANDREW NNH4-85B-R6		210° RRH 4494 B14/B29					1
	1	LTE 700/1900/AWS 5G 850	ANDREW NNH4-65B-R6H4		330°	RRH 4490 B5/B12A RRH 4890 B25/B66	(1)	(2) 1" (WR-VG66ST-BRD) (1) 3/8" (FB-L98B-235; 24-PAIR)		1
	2			405' 40'					200'	
С	3	5G CBAND 5G DOD	ERICSSON AIR6419 B77D + AIR6419 B77G (STACKED)	195' AGL	330°	INTEGRATED WITHIN: AIR6419 B77C INTEGRATED WITHIN: AIR6419 B77D			200'	2
	4	LTE 700/LTE	ANDREW NNH4-65B-R6H4		330°	RRH 4494 B14/B29				1

* INCLUDES SAFETY FACTOR OF 20' FT. (10 FT. AT BOTH ENDS OF CABLE RUN). CONTRACTOR TO VERIFY RF DATA WITH AT&T WIRELESS CONSTRUCTION MANAGER AND/OR RF ENGINEER PRIOR TO INSTALLATION







CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893

FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM CHECKED BY: CZ

REVISIONS REV DATE DESCRIPTION DRC COMMENTS & REDLINES RM 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

STAMP



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

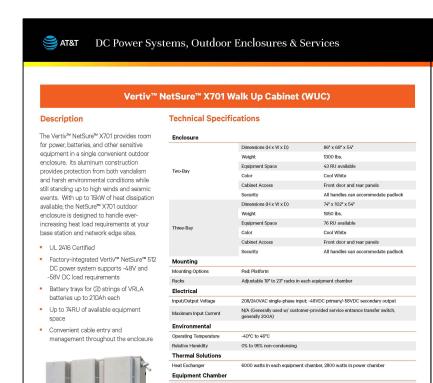
> ARCADIA FL TI-05363 SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

ANTENNA LAYOUT

SHEET NUMBER:

D-2

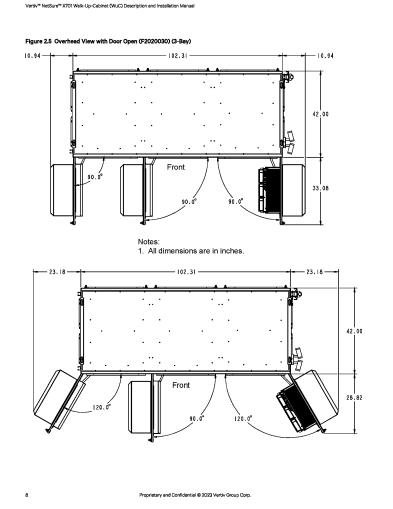


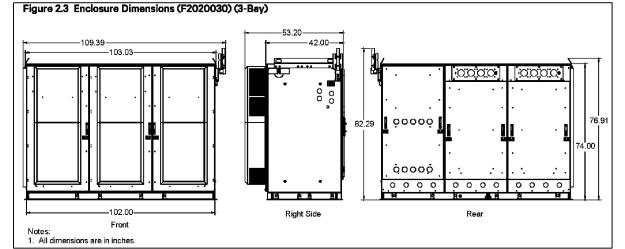
AC Outlet Grounding

Vertiv | DC Power Systems, Outdoor Enclosures & Services | AT&T Ordering Guide (RO01/23)

Ordering Information, Three-Bay AT&T Number Vertiv Number CEQ.54298 F2020030 Vertiv™ NetSure™ X701 three-bay outdoor walk-up enclosure with 76 RU available 582137000501 NetSure™ 512, -48 VDC/-58 VDC, (43) -48 V load breaker positions, (16) -58 V load breaker positions, LVBD capability 58213700030 (4) rectifier shelves, 3 right positions can be used for -48V to -58V converters 582137000AC (1) -48 VDC (30 position) distribution panel (1) -48 VDC (13 position) and -58 VDC (16 position) distribution panel 582137000FJ (2) 10M temperature probes 541308 (2) alarm cables (power system side) 541309 (2) alarm cable extensions 58213700070 (1) extended interface board 549017 (1) GMT fuse option board (1) 2800 watt door-mounted heat exchanger (power and battery chamber) (2) 6000 watt door-mounted heat exchanger (equipment chamber) (3) 200 amp DC battery disconnect (4) 1000 watt equipment heaters (1) Duplex AC convenience outlet (3) 10-position ground bars

VERTIV.











CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RN

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

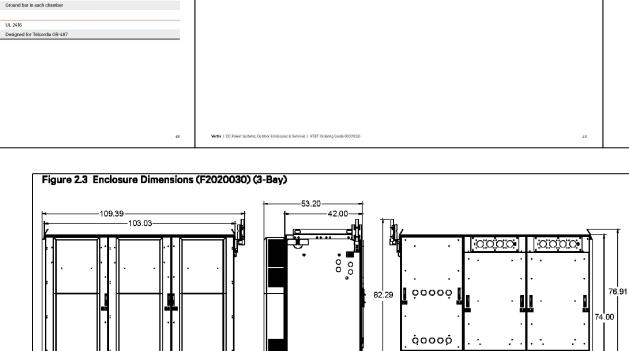
> TI-OPP-29300 TILLMAN SITE NAME

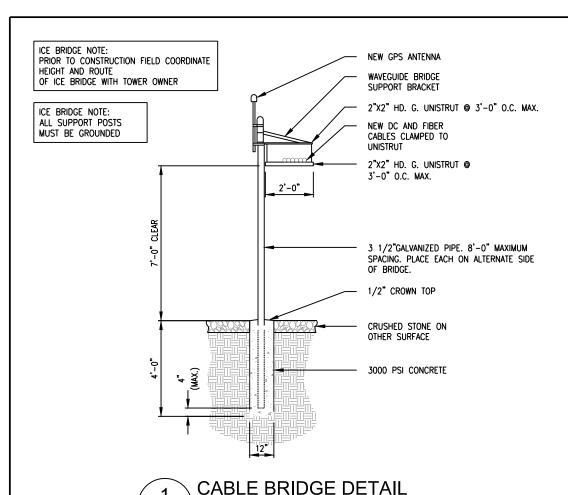
BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

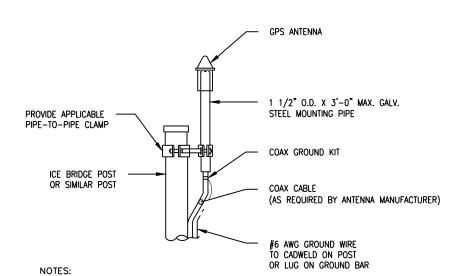
SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

VWUC **SPECIFICATIONS**



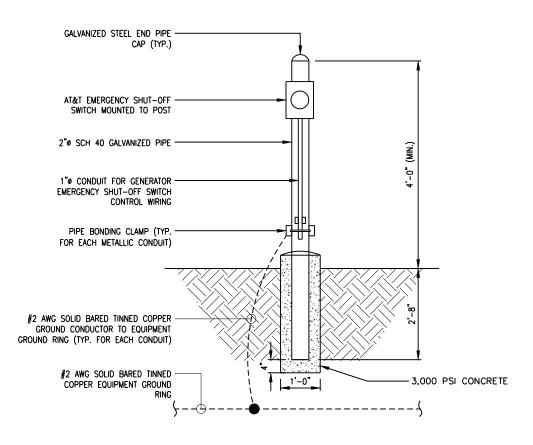




SCALE: N.T.S.

- 1. LOCATION OF ANTENNA MUST HAVE CLEAR VIEW OF SOUTHERN SKY AND CANNOT HAVE BLOCKAGES EXCEEDING 25% OF THE SURFACE AREA OF A HEMISPHERE AROUND THE GPS ANTENNA.
- 2. ALL GPS LOCATIONS MUST BE ABLE TO RECIEVE CLEAR SIGNALS FROM A MINIMUM OF FOUR (4) SATELLITES. VERIFY WITH HANDHELD GPS BEFORE FINAL LOCATION OF GPS ANTENNA.





EMERGENCY SHUT-OFF SWITCH DETAIL

SCALE: N.T.S.







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

ACGI NO: DRAWN BY: RM CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
		DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP

NO 86873

STATE OF

NOT VALID WITHOUT NOT VALID WITHOUT P.E. STAMP & SIGNATURE

> SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME

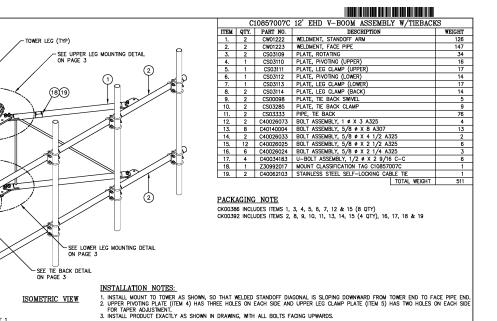
BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

EQUIPMENT DETAILS

NOTE: FOR REFERENCE ONLY.



Sabre Industries
Towers and Poles

12' EHD V-BOOM ASSEMBLY W/TIEBACKS

(3' STANDOFF)
W/NO ANTENNA MOUNTING PIPES

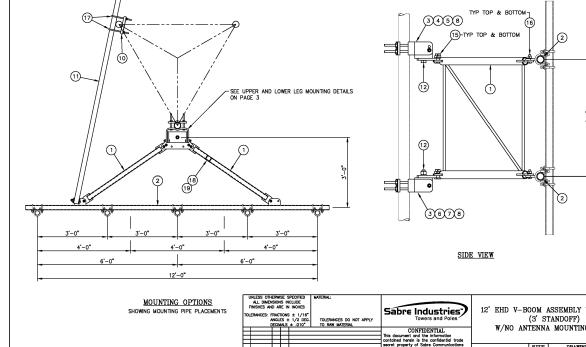
02/29/16 B C10857007C 1

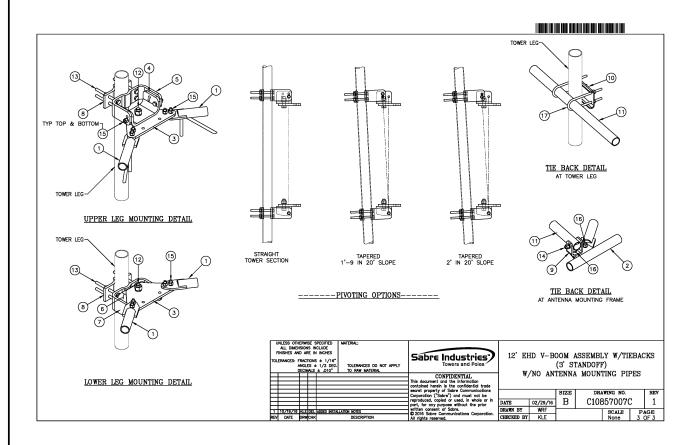
TIEBACK ANGLE RANGE DETAIL +/- 15 DEGREES VERTICAL +/- 25 DEGREES HORIZONTAL

+15 DEGREES

-25 DEGREES +25 DEGREES
-15 DEGREES

NOTES:





ISOMETRIC VIEW

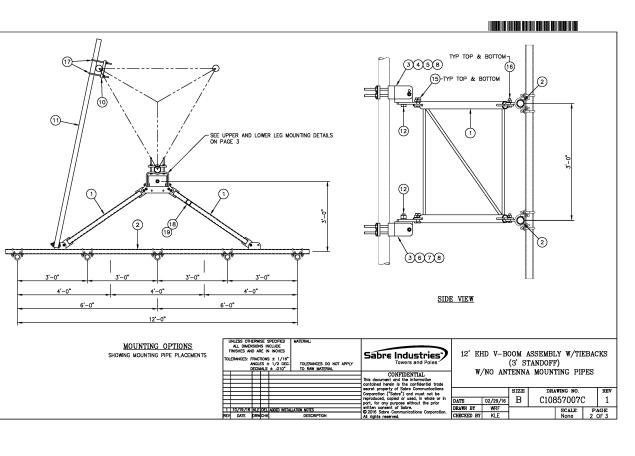
SEE NOTE 1

IN OURSING PIPES & CROSSOVER PLATE KITS MUST BE PURCHASED SEPARATELY.

2. QUANTITIES SHOWN IN LUSTS OF MATERIAL ARE FOR RONE (1) V-BOOM ONLY.

3. THIS V-BOOM WILL MOUNT TO THE FOLLOWING: 1 1/2" & 10 5 9/16" & ROUND LEG.

4. TEBACKS MUST BE CONNECTED TO A RIGID MEMBER THAT PROVIDES ADEQUATE
SUPPORT WITHIN THE LIMITS NOTED ABOVE IN THE TIEBACK ANGLE RANGE DETAIL
UNLESS APPROVED BY THE ENGINEER OF RECORD.









9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM CHECKED BY: CZ

REVISIONS REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

NO 86873

STATE OF

NOT VALID WITHOUT STAMP NOT VALID WITHOUT

> SITE INFORMATION AT&T NUMBER 15828317

P.E. STAMP & SIGNATURE

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

ANTENNA AND RRH PLATFORM **SPECIFICATIONS**

DETAILS BY OTHERS NOTE; DETAILS SHOWN ON THIS PAGE WERE PROVIDED BY OTHERS AND ARE NOT CARRIED UNDER THE SIGNATURE AND SEAL OF ALLPRO CONSULTING GROUP, INC. AND/OR IT'S ENGINEERS.

CENTER OF GRAVITY

DIM X

738 [29.1]

TBD [TBD]







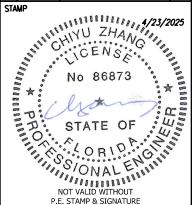
9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337

ACGI NO: DRAWN BY: RM CHECKED BY: CZ

REVISIONS

RΕV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
			RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

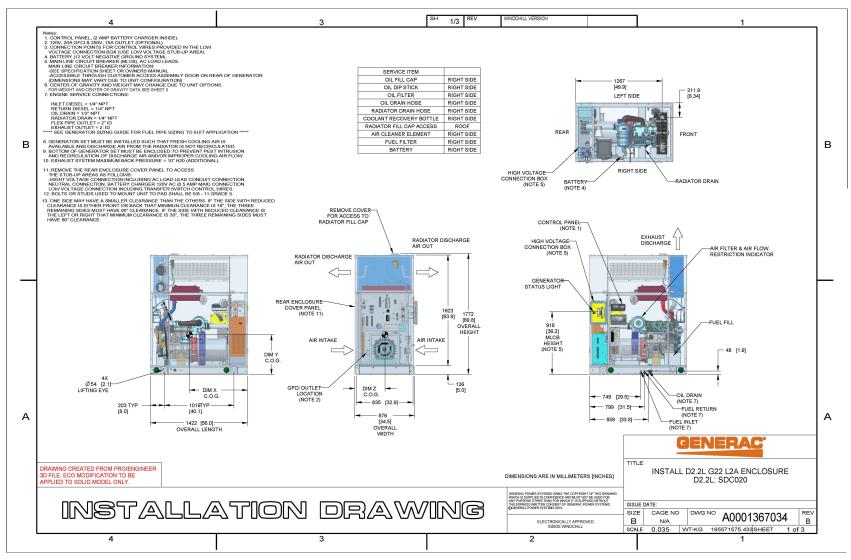
SITE ADDRESS 1320 SW MARTHA ST

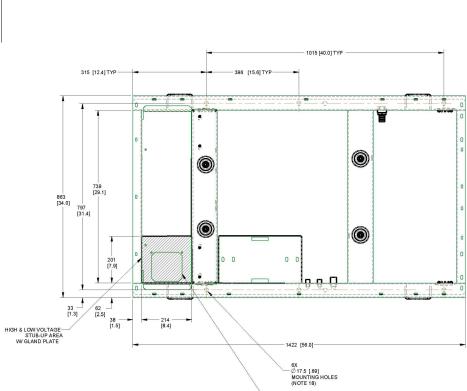
SHEET TITLE:

GENERATOR SPECIFICATIONS

SHEET NUMBER:

D-6



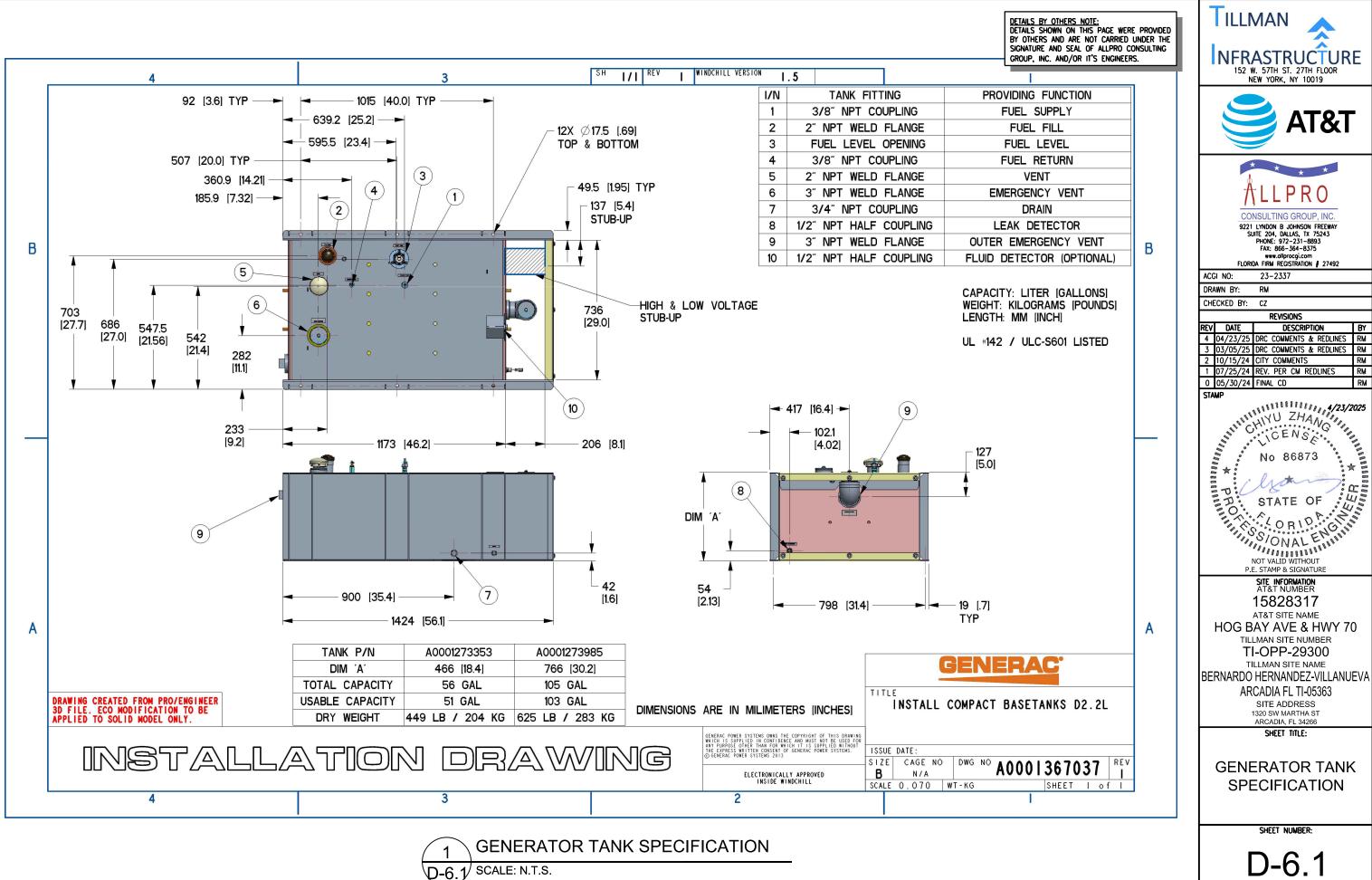


L2A ENCLOSURE, ALUMINUM

664.5 kg [1465 lbs.]

667.2 kg [1470.9 lbs]

GENERATOR SPECIFICATIONS SCALE: N.T.S. D-6



NFRASTRUCTURE 152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019





9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

P.E. STAMP & SIGNATURE

15828317

AT&T SITE NAME

TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

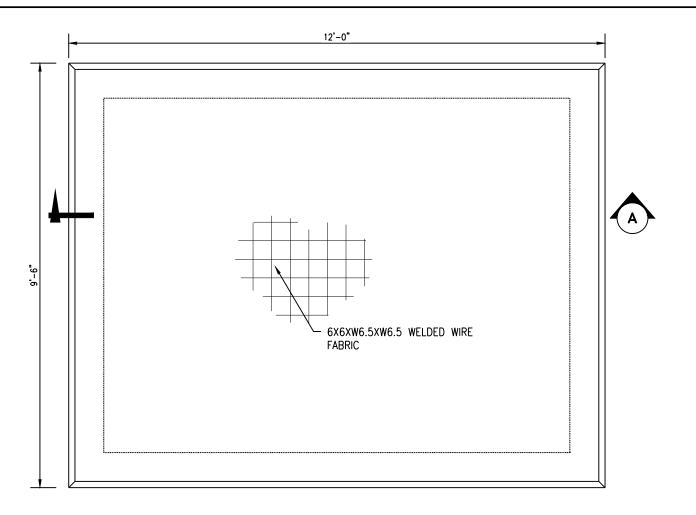
ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

GENERATOR TANK SPECIFICATION

SHEET NUMBER:

D-6.1



NOTE: FOR REFERENCE ONLY -FOUNDATION DESIGNS ARE BY OTHERS.







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ REVISIONS

REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS 1 07/25/24 REV. PER CM REDLINES 0 05/30/24 FINAL CD

NO 86873

NO 86873

NO RIOLOGIANI

NOT VALID WITHOUT

DE CTANDS & SIGNATINE

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

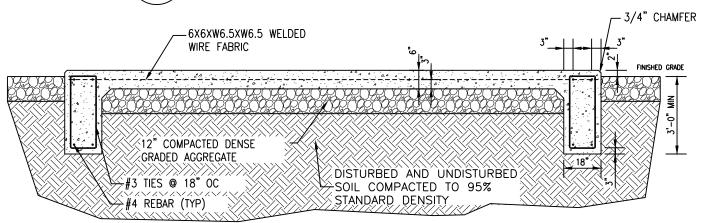
SHEET TITLE:

EQUIPMENT CONCRETE PAD AND DETAILS

SHEET NUMBER:

D-7

CONCRETE PAD DETAIL SCALE: N.T.S.

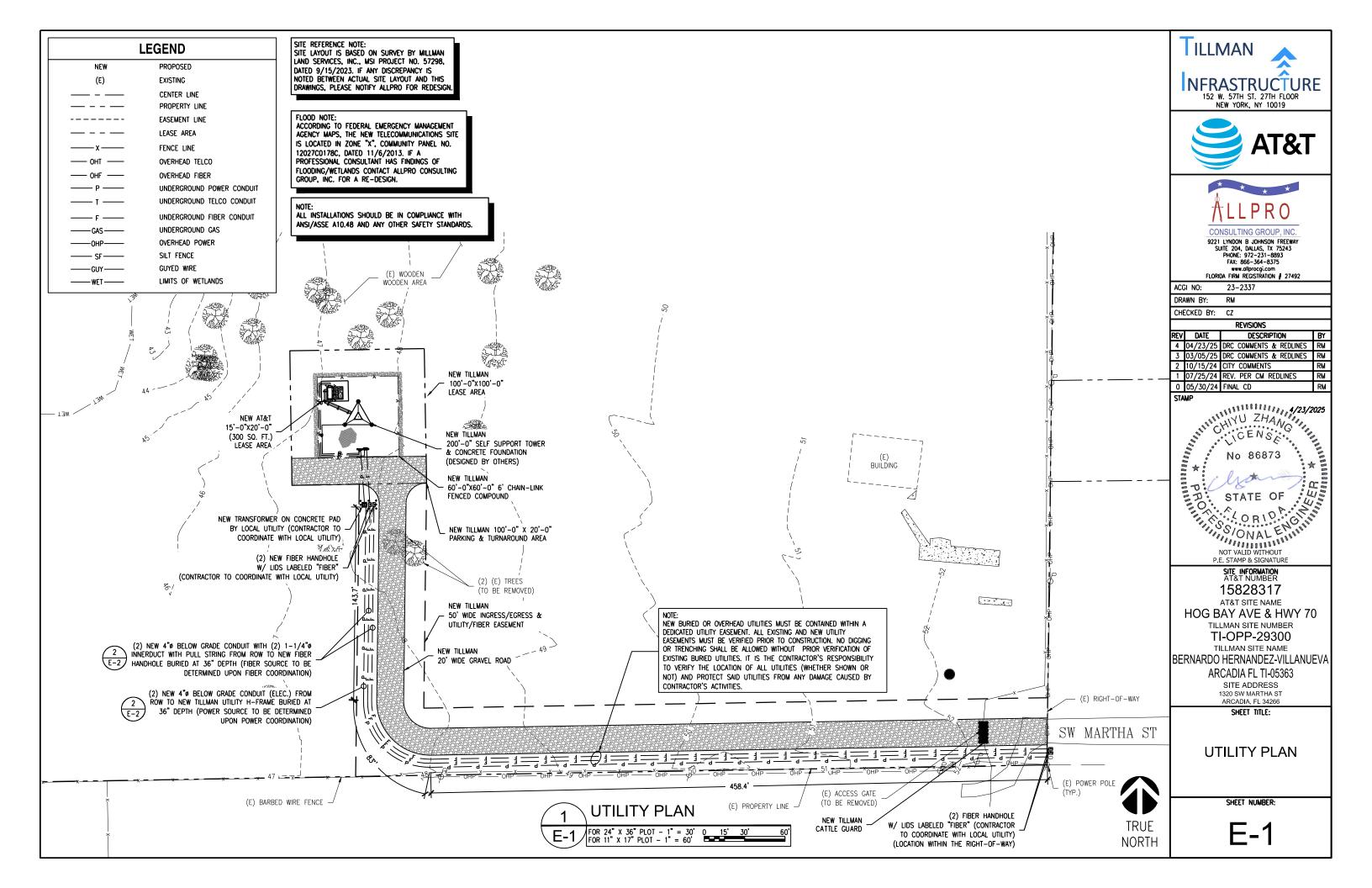


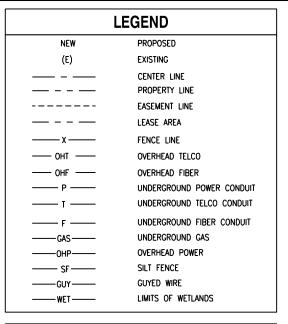
SECTION A-A NOT TO SCALE

NOTES:

- 1. SLAB TO BE LEVEL ±1/4".
- 2. FOOTING TO EXTEND A MINIMUM OF 24" BELOW UNDISTURBED SOIL OR 6" BELOW FROST LINE.
- 3. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
- 4. CONTRACTOR SHALL VERIFY DESIGN WITH ACTUAL SITE CONDITIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
- 5. SLAB FOUNDATION DESIGNED ASSUMING ALLOWABLE SOIL BEARING PRESSURE OF 2000 PSF.
- 6. SLAB FOUNDATION DESIGNED ASSUMING MAXIMUM SOIL PLASTICITY INDEX OF 27.
- 7. CONCRETE STRENGTH SHALL BE A MINIMUM OF 3000 PSI.
- 8. CONTRACTOR SHALL VERIFY DIMENSIONS AND BOLT LAYOUT WITH SELECTED SHELTER.

EQUIPMENT FOUNDATION HAS BEEN DESIGNED FOR SOILS HAVING AN ALLOWABLE BEARING CAPACITY OF 1500 PSF FOR CLAYSOILS & 2000 PSF FOR SANDY SOILS. NOTIFY ALLPRO CONSULTING GROUP INC., FOR A REDESIGN IF THE BEARING CAPACITY IS LESS THAN 1500 PSF





NOTE:

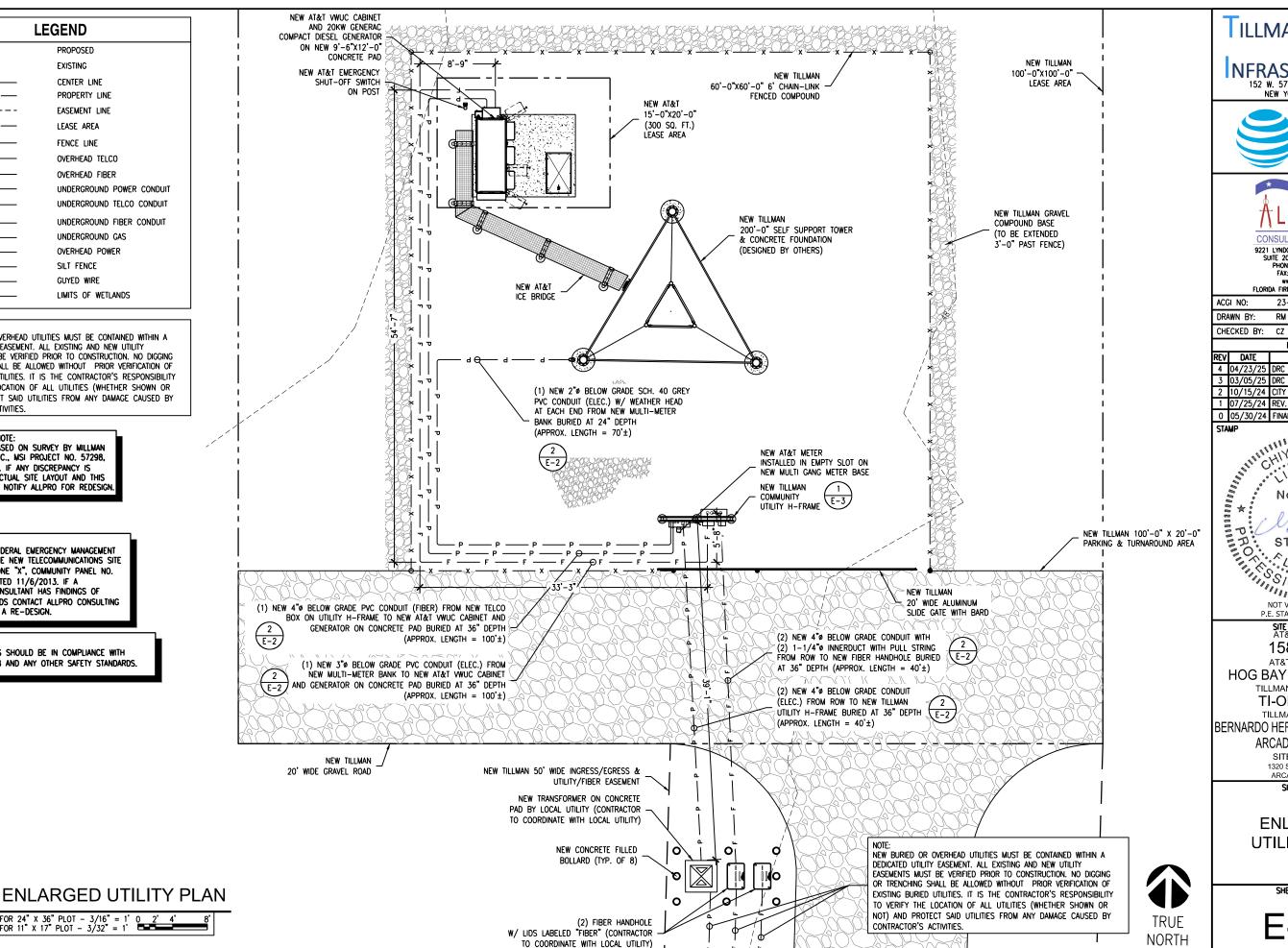
NEW BURIED OR OVERHEAD UTILITIES MUST BE CONTAINED WITHIN A DEDICATED UTILITY EASEMENT. ALL EXISTING AND NEW UTILITY EASEMENTS MUST BE VERIFIED PRIOR TO CONSTRUCTION. NO DIGGING OR TRENCHING SHALL BE ALLOWED WITHOUT PRIOR VERIFICATION OF EXISTING BURIED UTILITIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATION OF ALL UTILITIES (WHETHER SHOWN OR NOT) AND PROTECT SAID UTILITIES FROM ANY DAMAGE CAUSED BY CONTRACTOR'S ACTIVITIES.

SITE REFERENCE NOTE: SITE LAYOUT IS BASED ON SURVEY BY MILLMAN LAND SERVICES, INC., MSI PROJECT NO. 57298, DATED 9/15/2023. IF ANY DISCREPANCY IS NOTED BETWEEN ACTUAL SITE LAYOUT AND THIS DRAWINGS, PLEASE NOTIFY ALLPRO FOR REDESIGN

FLOOD NOTE: ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY MAPS, THE NEW TELECOMMUNICATIONS SITE IS LOCATED IN ZONE "X", COMMUNITY PANEL NO. 12027C0178C, DATED 11/6/2013. IF A PROFESSIONAL CONSULTANT HAS FINDINGS OF FLOODING/WETLANDS CONTACT ALLPRO CONSULTING GROUP, INC. FOR A RE-DESIGN.

ALL INSTALLATIONS SHOULD BE IN COMPLIANCE WITH ANSI/ASSE A10.48 AND ANY OTHER SAFETY STANDARDS.

FOR 24" X 36" PLOT - 3/16" = 1' 0 2'
FOR 11" X 17" PLOT - 3/32" = 1'









CONSULTING GROUP INC

9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

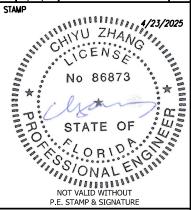
23-2337

ACGI NO: DRAWN BY: RM

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
		DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363 SITE ADDRESS

1320 SW MARTHA ST SHEET TITLE:

ENLARGED

UTILITY PLAN

ELECTRICAL NOTES

- SUBMITTAL OF BID INDICATES THAT THE CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
- CONTRACTOR SHALL PERFORM ALL VERIFICATIONS, OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO ORDERING OF ANY EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE PROJECT MANAGER LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
- VERIFY HEIGHTS WITH PROJECT MANAGER PRIOR TO INSTALLATION.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE. CONTRACTOR SHALL COORDINATE ALL WORK BETWEEN TRADES AND ALL OTHER
- SCHEDULING AND PROVISIONARY CIRCUMSTANCES SURROUNDING THE PROJECT. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC., FOR COMPLETE AND FUNCTIONALLY OPERATING SYSTEMS ENERGIZED AND READY FOR USE

THROUGHOUT AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS

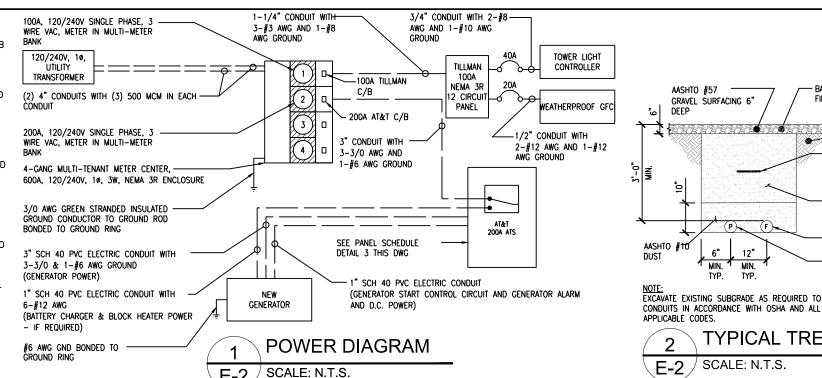
OTHERWISE REQUIRED.

- ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. ELECTRICAL MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION OVER THE CONSTRUCTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH ALL CURRENT APPLICABLE STANDARDS MANOPACTIONED IN ACCORDANCE WITH ALL CORRENT APPLICABLE STANDARDS
 ESTABLISHED BY ANSI, NEMA AND NBFU. ALL MATERIALS AND EQUIPMENT SHALL
 BE APPROVED FOR THEIR INTENDED USE AND LOCATION.
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE GOVERNING STATE, COUNTY AND CITY CODES AND OSHA, NFPA, NEC & ASHRAE REQUIREMENTS.
- ENTIRE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE. ALL WORK, MATERIAL AND EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
- 10. PROPERLY SEAL ALL PENETRATIONS. PROVIDE UL LISTED FIRE-STOPS WHERE PENETRATIONS ARE MADE THROUGH FIRE-RATED ASSEMBLIES. WATER-TIGHT USING SILICONE SEALANT.
- DELIVER ALL BROCHURES, OPERATING MANUALS, CATALOGS AND SHOP DRAWINGS TO THE PROJECT MANAGER AT JOB COMPLETION. PROVIDE MAINTENANCE MANUALS FOR MECHANICAL EQUIPMENT. AFFIX MAINTENANCE LABELS TO MECHANICAL EQUIPMENT.
- 12. ALL CONDUCTORS SHALL BE COPPER. MINIMUM CONDUCTOR SIZE SHALL BE #12 AWG., UNLESS OTHERWISE NOTED. CONDUCTORS SHALL BE TYPE THHW, RATED
- IN ACCORDANCE WITH NEC 110-14(C).

 13. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM INTERRUPTING CURRENT TO WHICH THEY MAY BE SUBJECTED.
- 4. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE; ARTICLES 250 & 810 AND THE UTILITY COMPANY STANDARDS.

15. CONDUIT:

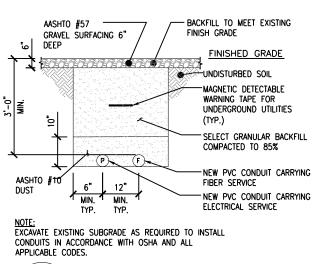
- A. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH ZINC INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR. RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
- ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR
- LIQUID-TIGHT FLEXIBLE METAL CONDUIT SHALL BE U.L. LISTED AND SHALL BE USED AT FINAL CONNECTIONS TO MECHANICAL EQUIPMENT & RECTIFIERS AND WHERE PERMITTED BY CODE. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL CONTAIN A FULL-SIZE GROUND CONDUCTOR.
 CONDUIT RUNS SHALL BE SURFACE MOUNTED ON CEILINGS OR WALLS
- UNLESS NOTED OTHERWISE. ALL CONDUIT SHALL RUN PARALLEL OR PERPENDICULAR TO WALLS, FLOOR, CEILING, OR BEAMS. VERIFY EXACT ROUTING OF ALL EXPOSED CONDUIT WITH THE PROJECT MANAGER PRIOR TO
- E. PVC CONDUIT MAY BE PROVIDED ONLY WHERE SHOWN, OR IN UNDERGROUND INSTALLATIONS. PROVIDE UV-RESISTANT CONDUIT WHERE EXPOSED TO THE ATMOSPHERE. PROVIDE GROUND CONDUCTOR IN ALL PVC RUNS; EXCEPT WHERE PERMITTED BY CODE TO OMIT.
- 17. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. BACKGROUND SHALL BE BLACK WITH WHITE LETTERS; EXCEPT AS REQUIRED BY CODE TO FOLLOW A DIFFERENT SCHEME.
- 18. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL
 OF POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. GROUNDING SYSTEM RESISTANCE SHALL NOT EXCEED 5 OHMS. IF THE RESISTANCE VALUE IS EXCEEDED, NOTIFY THE PROJECT MANAGER FOR FURTHER INSTRUCTION ON METHODS FOR REDUCING THE RESISTANCE
- 19. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION. LEGALLY DISPOSE OF ALL REMOVED, UNUSED AND EXCESS MATERIAL GENERATED BY THE WORK OF THIS CONTRACT. DELIVER ITEMS INDICATED ON THE DRAWINGS TO THE OWNER IN GOOD CONDITION. OBTAIN SIGNED RECEIPT UPON DELIVERY.
- 20. COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS SHALL BE PAID BY THE CONTRACTOR.
- VERIFY ALL EXISTING CIRCUITRY PRIOR TO REMOVAL AND NEW WORK, MAINTAIN POWER TO ALL OTHER AREAS & CIRCUITS NOT SCHEDULED FOR REMOVAL.
- 22. RED LINED AS-BUILT PLANS SHALL BE PROVIDED TO THE CONSTRUCTION MANAGER.



	INTEGRATED LOAD CENTER																								
	LOAD			LOAD PER	PHASE (VA)	8	S	INONS	<u>ط</u> ا	Ş۴	!		S ři	щ	E	SNON	OS	8	LOAD PER	PHASE (VA)			LOAD		
	DESCRIPTION	QTY.	UNIT V.A.	PH A	ASE B	WIRE COLOR	LOADS	LOADS NON-CONTINUOUS LOADS	SUB-PANEL WIRE SIZE	GROUNDING WIRF SIZE	TRIP	TRIP	GROUNDING WIRE SIZE	WIRE SIZE	LOADS SUB-PANEL	LOADS NON-CONTINUOUS	LOADS CONTINUOUS	WIRE COLOR	PH.	ASE B	UNIT V.A.	QTY.	DESCRIPTION		
1		1	1400	1400		BLK			1			l	(1.5)			_		BLK	1400		1400	1		2	1
3	RECTIFIER #1	1	1400		1400	RED	×		8	(10)	40	40	(10)	8			Х	RED		1400	1400	1	RECTIFIER #5	4	
5	RECTIFIER #2	1	1400	1400	\bowtie	BLK	×		8	(10)	40	40	(10)	8			х	BLK	1400	\bowtie	1400	1	RECTIFIER #6	6	
7	RECHIER #2	1	1400		1400	RED	Ĺ		L	(10)	70		(10)	Ů				RED		1400	1400	1	Keennek #0	8	
9	RECTIFIER #3	1	1400	1400	\bowtie	BLK	, x		8	(10)	40	40	(10)	8			х	BLK	1400	\bowtie	1400	1	RECTIFIER #7	10	
12		1	1400	\bowtie	1400	RED			Ļ				(,					RED	\bowtie	1400	1400	1		12	
13	RECTIFIER #4	1	1400	1400	\bowtie	BLK	, x		8	(10)	40	40	(10)	8			х	BLK	1400	\bowtie	1400	1	RECTIFIER #8	14	
15	_	1	1400	$\times\!\!\times\!\!\times$	1400	RED				1								RED	$\times\!\!\times\!\!\times$	1400	1400	1		16	
17					\bowtie	BLK												BLK		\bowtie				18	
19				\bowtie	× × × ×	RED	x		12	12	20							RED	\bowtie	* * * *				20	
21	GFCI RECEPTACLES	2	180	360	\bowtie	BLK	x		12	(12)	20							BLK		$\times\!\!\times\!\!\times$				22	
23	OPTIONAL FIBER BOX RECEPTACLE		180	\bowtie	180	RED	x		12	12	20							RED	\bowtie					24	
25	BATTERY CHARGER/BLOCK HEATER (IF REQIRED)	1	240	480	\bowtie	BLK	х		12	12	20							BLK		\bowtie				26	
27				\bowtie		RED												RED	\bowtie	***				28	
29	OIL HEATER (IF REQUIRED)	1	180	180	\bowtie	BLK	х		12	12	20							BLK		$\otimes\!\!\otimes\!\!\otimes$				30	
		COI	UBTOTAL NTINUOUS	6,380	7,280	_													5,600	5,600	SUBTO CONTINU SUBTO	AL OUS TAI	TOTAL KVA CONTINUOUS x 1.25	31.075	
		NON-	UBTOTAL CONTINUOUS UBTOTAL B-PANEL	-	-	+													<u> </u>	-	SUBTO NON-CONT SUBTO SUB-PA	NÜOUS Ta <u>l</u>	TOTAL KVA NON-CONTINUOUS TOTAL KVA	-	
PANE	L DESIGNATION: ELECTRICAL PA			<u> </u>	<u> </u>																SUR-PA	NEL	SUB-PANEL	-	-
\vdash	LUGS: N/A MAIN BREA															BRA	NCH B	REAKE	R TYPE: SIEMI	ENS - BL			TOTAL KVA	31.075	1
VOLT	AGE: 120/240 CYC	LE: 60		PHASE: 1	WI	RES:	3	MAIN CO	PPER B	US: 20	0 AMPS	5	NEUI	ral: 2	OO AMF	PS							TOTAL AMPS	129.48	

PANEL SCHEDULE

SCALE: N.T.S.



TYPICAL TRENCH DETAIL

ILLMAN NFRASTRUCTURE 152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019





FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

23-2337 ACGL NO: DRAWN BY: RM CHECKED BY: CZ

> REVISIONS DESCRIPTION

REV DATE ORC COMMENTS & REDLINES RM DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME

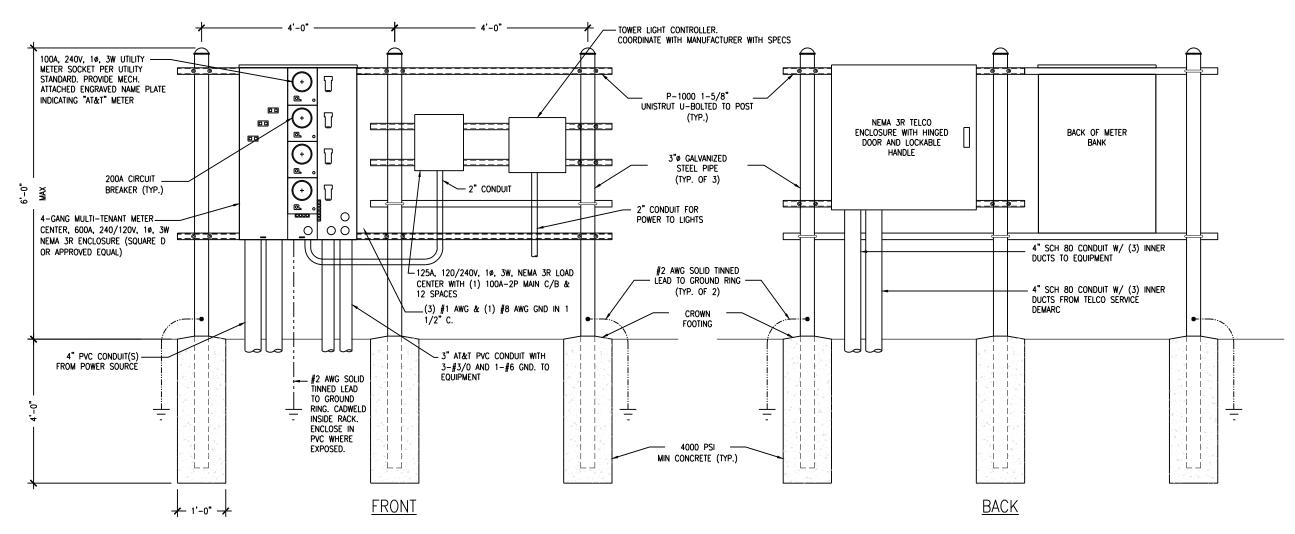
HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

> ARCADIA FL TI-05363 SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

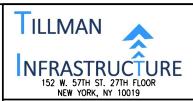
ELECTRICAL PANEL SCHEDULE. DIAGRAM AND NOTES



NOTES:

- 1. CONTRACTOR SHALL FIELD LOCATE THE METER PEDESTAL AS SHOWN ON SITE PLAN. INSTALL THE METER PEDESTAL NEAR THE PERIMETER OF THE FENCED COMPOUND WITH THE METERS FACING AS SHOWN.
- 2. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR THE CONDUIT RUN TO THE MAIN SERVICE CONNECTION OR TRANSFORMER.
- 3. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY COMPANY FOR GROUND ROD REQUIREMENTS. IF REQUIRED, THE CONTRACTOR SHALL ORDER AND PAY FOR NECESSARY GROUND TESTS.
- 4. SUPPORT POST AND UNISTRUT SHALL BE GALVANIZED. PIPE CLAMPS AND HARDWARE SHALL BE GALVANIZED OR STAINLESS STEEL.
- 5. TELCO CABINET SHALL BE 48"x48"x12" HOFFMAN OR EQUIVALENT. PROVIDE 3/4" PLYWOOD BACKBOARD INSIDE THE MULTI-TENANT TELCO CABINET.
- 6. ADJUSTMENTS TO THE METER PEDESTAL DESIGN MAY BE REQUIRED DEPENDING ON THE EXACT METER PANEL INSTALLED. CONTRACTOR SHALL FIELD COORDINATE ADJUSTMENTS AND INFORM THE ENGINEER IF ANY UNUSUAL CONDITIONS ARE FOUND









CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893

FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
1	07/25/24	REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

ELECTRICAL RISER DIAGRAM

GROUNDING LEGEND

EXOTHERMIC WELD CONNECTION COMPRESSION FITTING CONNECTION

•

5/8"X10' COPPER-CLAD STEEL GROUND ROD

(1)

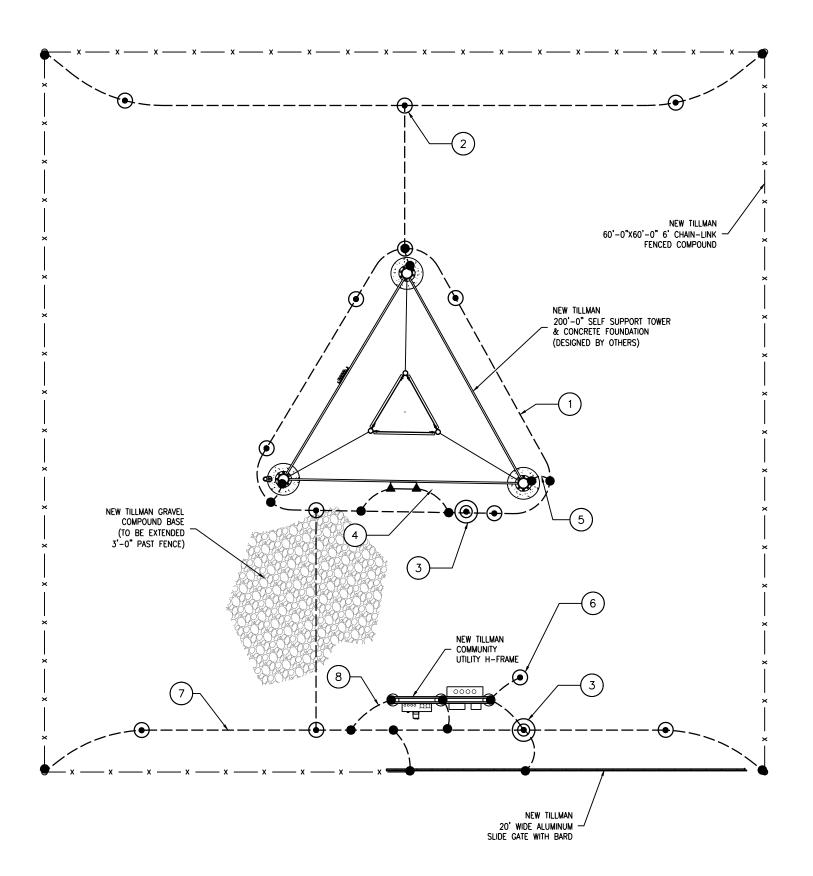
5/8"X10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL

NEW GROUND WIRING

TINNED COPPER GROUND BAR 1/4"X4"X12" OR 1/4"X4"X20"

SEE COMPOUND PLAN FOR TOWER AND COMPOUND ORIENTATION, UTILITY H-FRAME, GATE AND TOWER LOCATION.

- 1.) GROUND RING, #2 SOLID TINNED, BARE COPPER WIRE
- 5/8" x 10'-0" COPPER CLAD STEEL GROUND ROD SPACED MIN. 10'-0", MAX 15'-0" APART
- GROUND SYSTEM TEST WELL
- 4. #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM LOWER TOWER GROUND BAR TO NEW GROUND RING (2 REQ'D)
- #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM TOWER BASE PLATE TO NEW GROUND RING
- (6.) 5/8"ø x 10'-0" COPPER CLAD GROUND ROD FOR ELECTRICAL SERVICE GROUND
- 3/0 AWG GREEN STRANDED INSULATED GROUND CONDUCTOR TO GROUND ROD BONDED TO GROUND RING
- #2 SOLID TINNED, BARE COPPER GROUND WIRE, BOND UTILITY POST W/ VS TYPE CADWELD. (1 PER POST REQ'D)







9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM CHECKED BY: CZ

REVISIONS REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS 1 07/25/24 REV. PER CM REDLINES 0 05/30/24 FINAL CD

NO 86873

STATE OF

NOT VALID WITHOUT STAMP

> SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

GROUNDING PLAN

SHEET NUMBER:

G-1

TRUE NORTH



FOR 24" X 36" PLOT - 1/4" = 1' 0 1' 2' FOR 11" X 17" PLOT - 1/8" = 1'

GROUNDING LEGEND

EXOTHERMIC WELD CONNECTION COMPRESSION FITTING CONNECTION

5/8"X10' COPPER-CLAD • STEEL GROUND ROD **(1)**

5/8"X10' COPPER-CLAD STEEL GROUND ROD WITH INSPECTION WELL

NEW AT&T EMERGENCY

SHUT-OFF SWITCH

ON POST

(6)

TOWER GROUND RING

TOWER BASE

NEW GROUND WIRING

TINNED COPPER GROUND BAR 00000000 1/4"X4"X12" OR 1/4"X4"X20"

CGB COLLECTOR GROUND BAR MGB MAIN GROUND BAR

1. SEE COMPOUND PLAN FOR EQUIPMENT

GROUNDING NOTES:

- (1.) GROUND RING IS TO BE CONSTRUCTED OF #2 SOLID TINNED BARE COPPER WIRE IN ONE CONTINUOUS PIECE
- (2.) GROUND RODS WILL BE 5/8"x10"-0" COPPER CLAD, NOT LESS THAN 10' OR MORE THAN 15' APART
- (3.) GROUND TEST WELL
- (4.) CONNECT NEW EQUIPMENT GROUND RING TO TOWER GROUND RING (TYP. OF 2)

NEW POWER & TELCO

NEW WALK UP

CABINET (VWUC)

NEW CONCRETE PAD

NEW AT&T 20kW GENERAC

COMPACT

DIÉSEN

GENERATOR

LOAD CENTER (PTLC)

BATTERY

W/ (12) SBS

190F BATTERIES

ANTFNNA

EQUIPMENT

ANTFNNA

EQUIPMENT

BAY

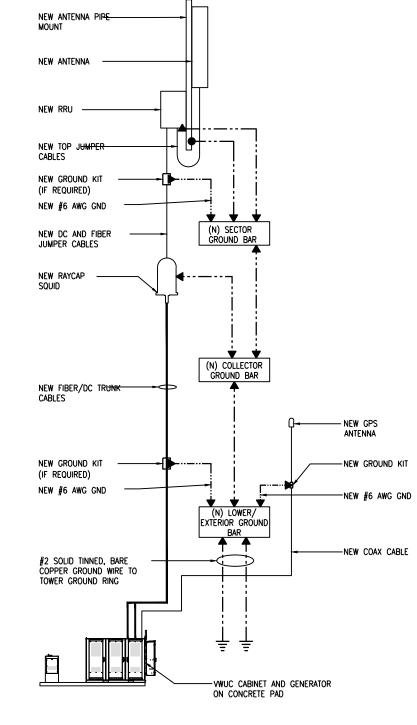
MASTER

GROUND BA

(5.) EXTERIOR GROUND BAR PROVIDED BY EQUIPMENT

MANUFACTURER

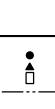
- (6.) #2 SOLID TINNED, BARE COPPER GROUND WIRE FROM GROUND BAR TO GROUND RING
- 7.) #2 SOLID TINNED BARE COPPER GROUND WIRE FROM GENERATOR TO GROUND RING (TYP. OF 2)
- 8. #2 AWG GREEN STRANDED INSULATED GROUND CONDUCTOR TO GROUND ROD BONDED TO GROUND



- 1. (1) ANTENNA/RRU/ RAYCAP SHOWN FOR CLARITY. GROUNDING IS TYPICAL FOR FACH ADDITIONAL
- 2. ADDITIONAL CABLE GROUND KIT REQUIRED AT MIDPOINT FOR CABLE LENGTHS GREATER THAN 200 FT.

LEGEND:

- EXOTHERMIC CONNECTION
- MECHANICAL CONNECTION
- GROUND KIT
- #2 GREEN STRANDED INSULATED COPPER GND WIRE (SUNLIGHT RESISTANT) U.N.O.



TYPICAL RISER DIAGRAM

SCALE: N.T.S.







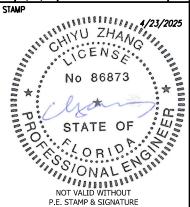
9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

CHECKED BY: CZ REVISIONS REV DATE DESCRIPTION

4 04/23/25 DRC COMMENTS & REDLINES DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS 1 07/25/24 REV. PER CM REDLINES

0 05/30/24 FINAL CD STAMP



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME

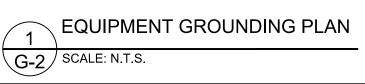
BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

> SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

EQUIPMENT GROUNDING PLAN AND RISER **DIAGRAM**

SHEET NUMBER:



CABLE BRIDGE POSTS

GROUNDING NOTES:

- GROUNDING SHALL COMPLY WITH ARTICLE 250 OF THE NATIONAL ELECTRICAL
- ALL GROUNDING DEVICES SHALL BE U.L. APPROVED OR LISTED FOR THEIR INTENDED USE.
- ALL WIRES SHALL BE AWG THHN/THWN COPPER UNLESS NOTED OTHERWISE. GROUNDING CONNECTIONS TO GROUND RODS, GROUND RING WIRE, TOWER BASE AND FENCE POSTS SHALL BE EXOTHERMIC ("CADWELDS") UNLESS NOTED OTHERWISE. CLEAN SURFACES TO SHINY METAL. WHERE GROUND WIRES ARE
- CADWELDED TO GALVANIZED SURFACES, SPRAY CADWELD WITH GALVANIZING PAINT. GROUNDING CONNECTIONS TO GROUND BARS ARE TO BE TWO-HOLE BRASS MECHANICAL CONNECTORS WITH STAINLESS STEEL HARDWARE (INCLUDING SCREW SET) CLEAN GROUND BAR TO SHINY METAL. AFTER MECHANICAL CONNECTION, TREAT WITH PROTECTIVE ANTIOXIDANT COATING.
- GROUND COAXIAL CABLE SHIELDS AT BOTH ENDS WITH MANUFACTURER'S
- ROUTE GROUNDING CONDUCTORS THE SHORTEST AND STRAIGHTEST PATH POSSIBLE. BEND GROUNDING LEADS WITH A MINIMUM 12" RADIUS.
- INSTALL #2 AWG GREEN-INSULATED STRANDED WIRE FOR ABOVE GRADE GROUNDING AND #2 BARE TINNED COPPER WIRE FOR BELOW GRADE GROUNDING UNLESS OTHERWISE NOTED.
- REFER TO GROUNDING PLAN FOR GROUND BAR LOCATIONS. GROUNDING CONNECTIONS SHALL BE EXOTHERMIC TYPE ("CADWELDS") TO ANTENNA MOUNTS AND GROUND RING. REMAINING GROUNDING CONNECTIONS SHALL BE COMPRESSION FITTINGS. CONNECTIONS TO GROUND BARS SHALL BE MADE WITH TWO-HOLE LUGS.
- THE GROUND ELECTRODE SYSTEM SHALL CONSIST OF DRIVEN GROUND RODS POSITION ACCORDING TO GROUNDING PLAN, THE GROUND RODS SHALL BE 5/8"x10'-0" COPPER CLAD STEEL INTERCONNECTED WITH #2 BARE TINNED COPPER WIRE BURIED 36" BELOW GRADE. BURY GROUND RODS A MAXIMUM OF 15' APART, AND A MINIMUM OF 8' APART.
- 11. IF ROCK IS ENCOUNTERED GROUND RODS SHALL BE PLACED AT AN OBLIQUE ANGLE NOT TO EXCEED 45°.
- 12. EXOTHERMIC WELDS SHALL BE MADE IN ACCORDANCE WITH ERICO PRODUCTS RULLETIN A-AT
- 13. CONSTRUCTION OF GROUND RING AND CONNECTIONS TO EXISTING GROUND RING SYSTEM SHALL BE DOCUMENTED WITH PHOTOGRAPHS PRIOR TO BACKFILLING SITE. PROVIDE PHOTOS TO THE CARRIER CONSTRUCTION MANAGER.
- ALL GROUND LEADS EXCEPT THOSE TO THE EQUIPMENT ARE TO BE #2 BARE TINNED COPPER WIRE. ALL EXTERIOR GROUND BARS TINNED COPPER
- 15. PRIOR TO INSTALLING LUGS ON GROUND WIRES, APPLY THOMAS & BETTS KOPR-SHIELD (TM OF JET LUBE INC.). PRIOR TO BOLTING GROUND WIRE LUGS TO GROUND BARS, APPLY KOPR-SHIELD OR EQUAL
- 16. ENGAGE AN INDEPENDENT ELECTRICAL TESTING FIRM TO TEST AND VERIFY THAT IMPEDANCE DOES NOT EXCEED FIVE OHMS TO GROUND BY MEANS OF "FALL OF POTENTIAL TEST". TEST SHALL BE WITNESSED BY A CARRIER REPRESENTATIVE, AND RECORDED ON THE "GROUND RESISTANCE TEST" FORM.
- 17. WHERE BARE COPPER GROUND WIRES ARE ROUTED FROM ANY CONNECTION ABOVE GRADE TO GROUND RING, INSTALL WIRE IN 3/4" PVC SLEEVE, FROM 1' BELOW GRADE AND SEAL TOP WITH SILICONE MATERIAL.
- 18. PREPARE ALL BONDING SURFACES FOR GROUNDING CONNECTIONS BY REMOVING ALL PAINT AND CORROSION DOWN TO SHINY METAL. FOLLOWING CONNECTION, APPLY APPROPRIATE ANTI-OXIDIZATION PAINT
- 19. ANY SITE WHERE THE EQUIPMENT (BTS, CABLE BRIDGE, PPC, GENERATOR, ETC.) IS LOCATED WITHIN 6 FEET OF METAL FENCING, THE GROUND RING SHALL BE BONDED TO THE NEAREST FENCE POST USING (3) RUNS OF #2 BARE TINNED

TYPE PI

TYPE VB

CABLE COLOR CODING NOTES:

CABLE MARKING TAGS:

DETAIL.

(3)

- SECTOR ORIENTATION/AZIMUTH WILL VARY FROM REGION AND IS SITE SPECIFIC. REFER TO RF REPORT FOR EACH SITE TO DETERMINE THE ANTENNA LOCATION AND FUNCTION OF EACH TOWER SECTOR FACE.
- THE ANTENNA SYSTEM CABLES SHALL BE LABELED WITH VINYL TAPE EXCEPT IN LOCATIONS WHERE ENVIRONMENTAL CONDITIONS CAUSE PHYSICAL DAMAGE, THEN PHYSICAL TAGS ARE PREFERRED.
- THE STANDARD IS BASED ON EIGHT COLORED TAPES RED, BLUE, GREEN, YELLOW, ORANGE, BROWN, WHITE & VIOLET. THESE TAPES MUST BE 3/4" WIDE & UV RESISTANT SUCH AS SCOTCH 35 VINYL ELECTRICAL COLOR CODING TAPE AND SHOULD BE READILY AVAILABLE TO THE ELECTRICIAN OR SUBCONTRACTOR ON SITE.
- USING COLOR BANDS ON THE CABLES, MARK ALL RF CABLES BY SECTOR AND NUMBER AS SHOWN ON "CABLE MARKING COLOR CONVENTION TABLE".
- WHEN AN EXISTING COAXIAL LINE THAT IS INTENDED TO BE A SHARED LINE BETWEEN GSM/3G AND IS-136 TDMA IS ENCOUNTERED, THE SUBCONTRACTOR SHALL REMOVE THE EXISTING COLOR CODING SCHEME AND REPLACE IT WITH THE COLOR CODING AND TAGGING STANDARD THAT IS OUTLINED IN THE CURRENT VERSION OF ND-00027. IN THE ABSENCE OF AN EXISTING COLOR CODING TAGGING SCHEME, OR WHEN INSTALLING NEW COAXIAL CABLES, THIS GUIDELINE SHALL BE IMPLEMENTED AT THAT SITE REGARDLESS OF TECHNOLOGY.
- ALL COLOR CODE TAPE SHALL BE 3M-35 AND SHALL BE A MINIMUM OR (3) WRAPS OF TAPE AND SHALL BE NEATLY TRIMMED AND SMOOTHED OUT SO`AS TO AVOID UNRAVELING.
- ALL COLOR BANDS INSTALLED AT THE TOP OF TOWER SHALL BE A MINIMUM OF 3" WIDE AND SHALL HAVE A MINIMUM OF 3/4" OF SPACE IN BETWEEN EACH COLOR.
- ALL COLOR CODES SHALL BE INSTALLED AS TO ALIGN NEATLY WITH ONE ANOTHER
- IF EXISTING CABLES AT THE SITE ALREADY HAVE A COLOR CODING SCHEME AND THEY ARE NOT INTENDED TO BE REUSED OR SHARED WITH THE GSM TECHNOLOGY, THE EXISTING COLOR CODING SCHEME SHALL REMAIN UNTOUCHED.

WHEN USING THE ALTERNATIVE LABELING METHOD, EACH RF CABLE SHALL BE IDENTIFIED

SECTOR, ANTENNA POSITION AND CABLE NUMBER. ID MARKING LOCATIONS SHOULD BE

ABOVE. THE TAG SHOULD BE LABELED AS SHOWN ON THE "GSM AND UMTS LINE TAG"

AS PER "CABLE MARKING LOCATIONS TABLE". THE TAG SHOULD BE ATTACHED WITH

CORROSION PROOF WIRE AROUND THE CABLE AT THE SAME LOCATION AS DEFINED

CABLE MARKING LOCATIONS TABLE

LOCATIONS

EACH JUMPER SHALL BE COLOR CODED WITH (1) SET OF 3" WIDE

EACH MAIN COAX SHALL BE COLOR CODED WITH (1) SET OF 3"

OF 3/4" WIDE COLOR BANDS PRIOR TO ENTERING THE BTS OR

CABLE ENTRY PORT ON THE INTERIOR OF SHELTER.

WIDE BANDS AT THE TOP JUMPER CONNECTION AND WITH (1) SET

ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF

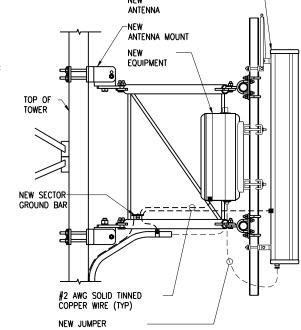
ALL BOTTOM JUMPERS SHALL BE COLOR CODED WITH (1) SET OF

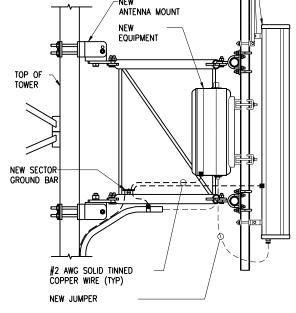
3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

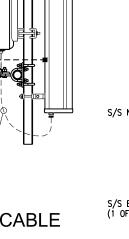
3/4" WIDE BANDS ON EACH END OF THE BOTTOM JUMPER.

WITH A METAL ID TAG MADE OF STAINLESS STEEL OR BRASS. THE TAG SHALL BE

1-1/2" IN DIAMETER WITH 1/4" STAMPED LETTERS AND NUMBERS INDICATION THE



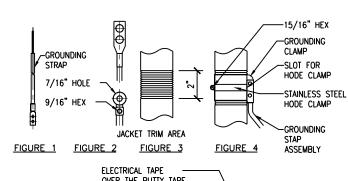


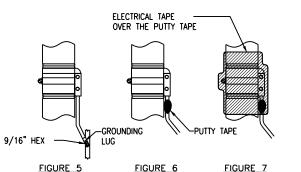


ANTENNA AND CABLE GROUNDING SCALE: N.T.S.

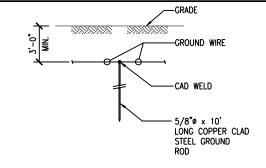
ADJUSTABLE STRAP

GROUNDING CLAMP

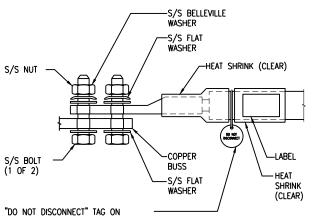




GROUNDING STRAP WEATHERPROOFING DETAILS SCALE: N.T.S.

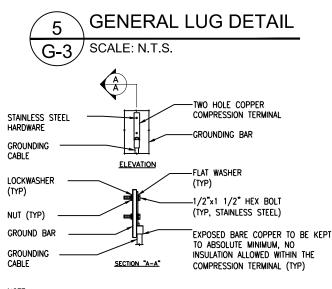


GROUNDING ROD DETAIL SCALE: N.T.S.



ALL GROUND BAR INTERCONNECTS

- ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING BELLEVILLES. COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND BEFORE MATING. FOR GROUND BOND TO STEEL ONLY: INSERT A DRAGON TOOTH WASHER
- BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH ANTI-OXIDATION COMPOUND. COAT ALL BARRELS WITH ANTI-OXIDATION COMPOUND BEFORE CRIMPING.



1. "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.









9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

CC	I NO:	23-2337	
)R/	WN BY:	RM	
CHE	CKED BY:	CZ	
		revisions	
E۷	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM

03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD

STAMP NOT VALID WITHOUT P.E. STAMP & SIGNATURE

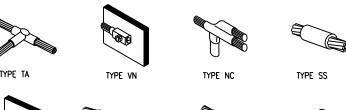
SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

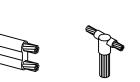
> SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

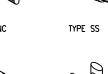
GROUNDING DETAILS AND NOTES

SHEET NUMBER:





TYPE GT





TYPE W





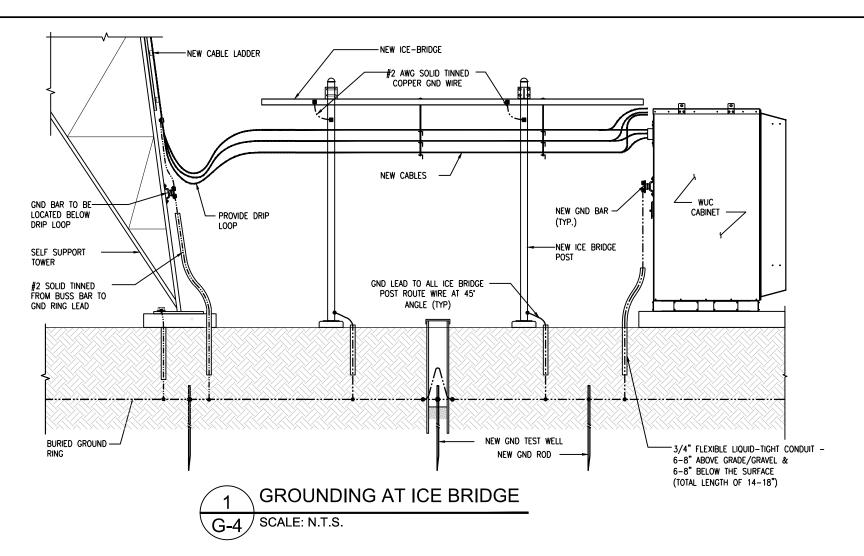
TYPE VS





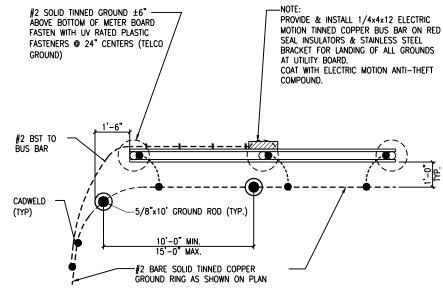
TYPE GY

SCALE: N.T.S.



INCLUDE (2) EXTRA

TAMPER RESISTANT IN BAG (AS SHOWN)



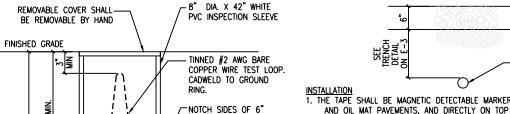
UTILITY H-FRAME GROUNDING DETAIL SCALE: N.T.S.

TOP OF COMPOUND STONE

GEOTEXTILE FABRIC

TELEPHONE, TELEMETERING, ETC)

DIRECT BURIAL CABLE OR CONDUIT (POWER, CONTROL,



1. THE TAPE SHALL BE MAGNETIC DETECTABLE MARKER, LAID DIRECTLY ABOVE THE CABLE OR CONDUIT UNDER RIGID TYPE NOTCH SIDES OF 6" AND OIL MAT PAVEMENTS, AND DIRECTLY ON TOP OF THE COMPACTED EARTH SUBGRADE IMMEDIATELY BEFORE PVC SCH 80 PIPE TO ALLOW 2. IN OPEN AREAS, THE TAPE SHALL BE LAID DURING THE BACKFILLING OPERATION ON SMOOTH, COMPACTED BACKFILL AT

A DISTANCE OF 8" BELOW THE SURFACE OF THE AREA.

3. THE ENDS OF THE TAPE SHALL BE LAPPED APPROXIMATELY SIX (6) INCHES. 4. TAPE SHALL BE THE COLOR AS INDICATED AND HAVE THE FOLLOWING MARKINGS:

RED	CAUTION BURIED ELECTRIC LINE BELOW	CAUTION	CAUTION
ORANGE	CAUTION BURIED TELEPHONE LINE BELOW	CAUTION	CAUTION

BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303) P/N 02-009-0603-000 (1) STANDARD 4"x6" BAG (P/N 03-009-0209-00) 3/8-16x5/8" TORQUE SHEAR HEAD BOLT (NON-REMOVABLE) WITH VIBRSEAL; STAINLESS STEEL (303) 2"x2" INSULATOR; FIBERGLASS 20" GROUND BAR; STEEL; GALVANIZED 1 ITEM PART NO. REQ DESCRIPTION

-ø .469x.719 TYP

(41) PL

INSPECTION WELL DETAIL

SCALE: N.T.S.









CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893 FAX: 866-364-8375

www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO:	23-2337
DRAWN BY:	RM
CHECKED BY:	CZ

	REVISIONS			
RE	E۷	DATE	DESCRIPTION	BY
	4	04/23/25	DRC COMMENTS & REDLINES	RM
	3	03/05/25	DRC COMMENTS & REDLINES	RM
	2	10/15/24	CITY COMMENTS	RM
	1	07/25/24	REV. PER CM REDLINES	RM

0 05/30/24 FINAL CD NO 86873

STATE OF

NOT VALID WITHOUT

NOT VALID WI STAMP

SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

NOT VALID WITHOUT P.E. STAMP & SIGNATURE

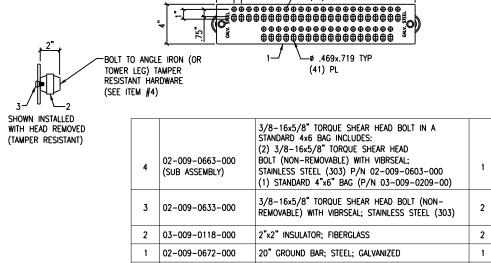
ARCADIA FL TI-05363 SITE ADDRESS

1320 SW MARTHA ST

SHEET TITLE:

GROUNDING DETAILS

SHEET NUMBER:



€MC

ELECTRIC MOTION CO., INC. 110 GROPPO DR./ BOX 626

PART #EM SGM420-BI-NR





EXIT/ENTRANCE OF

_TINNED #2 AWG SOLID GROUND RING

-COPPER-CLAD STEEL

5/8"x10' GROUND

-TRENCH BOTTOM

GROUND RING

I. PRECONSTRUCTION/PRELIMINARY

1. PERMITS AND LICENSES

- THE CONTRACTOR SHALL OBTAIN ALL REQUIRED LOCAL, COUNTY, AND/OR 1.1. STATE PERMITS AND LICENSES.
- ALL APPLICABLE FEDERAL, STATE, AND LOCAL TAXES ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- THE COSTS PAID FOR THE PERMITS BY THE CONTRACTOR ARE TO BE INCLUDED IN THE CONTRACTOR'S BID PRICE.
- LEGIBLE COPIES OF ALL PERMITS ARE TO BE INCLUDED IN THE PROJECT CLOSEOUT DOCUMENTATION PACKAGE.

COMPLIANCE

ALL WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS.

3. GEOTECHNICAL INFORMATION

A PROFESSIONAL GEOTECHNICAL INVESTIGATION OF THE SITE WILL BI FURNISHED TO THE CONTRACTOR AS PART OF THE PROPOSAL PACKAGE, IF REQUIRED, FOR REFERENCE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS OWN INTERPRETATION, AND THE LIABILITY THEREOF, OF THE SUBSURFACE CONDITIONS DOCUMENTED IN THE GEOTECHNICAL REPORT. IF HE CONSIDERS THIS INFORMATION AND/OR SAMPLES TO BE LACKING OR INADEQUATE, HE SHALL CARRY OUT FURTHER INVESTIGATIONS, AT HIS OWN OPTION AND EXPENSE, TO SATISFY HIMSELF OF THE SUBSURFACE CONDITIONS

4. SURVEYING AND LAYOUT

- 4.1. A SURVEY OF THE SITE SHALL BE FURNISHED TO THE CONTRACTOR AS PART OF THE PROPOSAL PACKAGE. THE CONTRACTOR SHALL USE A REGISTERED LAND SURVEYOR, AT HIS OWN EXPENSE, FOR ALL CONSTRUCTION SURVEYING THAT MAY BE REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS AND MASTER SPECIFICATIONS
- WHERE THE CONTRACTOR BELIEVES THAT NECESSARY DIMENSIONS ARE NOT SHOWN ON THE CONSTRUCTION DRAWINGS, HE MUST REQUEST THESE DIMENSIONS FROM THE PM IN WRITING BEFORE STARTING WORK. HE SHALL MAKE ADEQUATE PROVISION, IN TIME, FOR THE PM TO DETERMINE SUCH DIMENSIONS WITHOUT CAUSING DELAY IN WORK

5. NOTICES UNDER THE CONTRACT.

5.1. ALL NOTICES, APPLICATIONS, INSTRUCTIONS, AND REQUESTS TO BE GIVEN TO THE CONTRACTOR UNDER THE CONTRACT WILL BE GIVEN VIA E-MAIL, FAX, OR VERBALLY. AT HIS OWN DISCRETION, THE CONTRACTOR SHALL FORWARD TO THE PM WRITTEN CONFIRMATION OF ANY VERBAL DISCUSSION.

6. SUBSTITUTIONS AND VARIATIONS

- THE CONTRACTOR SHALL FURNISH MATERIAL AS SHOWN OR APPROVED EQUAL, AND WORK IN PLACE IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. NO DEVIATIONS SHALL BE MADE FROM THE CONSTRUCTION DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE PM.
- EQUAL SUBSTITUTES SHALL BE SUBMITTED TO THE PM FOR WRITTEN 6.1.1. APPROVAL PRIOR TO USE.

7. TEMPORARY WATER, POWER, AND SANITARY FACILITIES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, AT HIS OWN EXPENSE ANY REQUIRED TEMPORARY WATER CONSTRUCTION POWER AND SANITARY FACILITIES NEEDED FOR THE COMPLETION OF THE CONSTRUCTION

8. COORDINATION WITH PUBLIC AUTHORITIES

- THE CONTRACTOR SHALL COORDINATE WITH RELEVANT AUTHORITIES THE WORK THEY ARE TO CARRY OUT. HE SHALL CONDUCT HIS OPERATIONS SO AS NOT TO INTERFERE WITH THE OPERATIONS OF PUBLIC AND/OR PRIVATE UTILITY AUTHORITIES INSTALLING SERVICES AT THE SITE. COORDINATION OF UTILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF UTILITIES AND ASSOCIATED STRUCTURES DURING CONSTRUCTION OF THE
- THE CONTRACTOR IS RESPONSIBLE FOR HAVING ALL UTILITIES LOCATED 8.1.2. PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ALL COSTS

ASSOCIATED WITH DAMAGED EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO FINES AND REPAIR COSTS

- DO NOT INTERRUPT EXISTING UTILITIES WITHOUT PERMISSION FROM THE UTILITY AND THE APPROVAL OF THE PM. PROVIDE 48-HOUR NOTIFICATION TO CUSTOMERS SERVICES BY THE AFFECTED UTILITY AND
- WHERE INACTIVE/ABANDONED UTILITIES ARE ENCOUNTERED WITHIN THE 8.1.5. SITE THAT INTERFERE WITH THE EXECUTION OF THE CONSTRUCTION WORK, THE CONTRACTOR SHALL REMOVE AND/OR TERMINATE SUCH UTILITIES IN ACCORDANCE WITH THE UTILITY COMPANY'S

9. USE OF PUBLIC ROADS AND TRAFFIC CONTROL

- 9.1. THE CONTRACTOR SHALL MAINTAIN ALL ROADS FREE OF ANY DEBRIS OR OTHER MATERIAL THAT MAY FALL FROM HIS FOLIPMENT OR OTHERWISE BE REMOVED AND THE ROAD CLEANED TO THE SATISFACTION OF THE GOVERNING AUTHORITIES AND THE ROAD CLEANED TO THE SATISFACTION OF THE GOVERNING AUTHORITIES DEPOSITED ON THE ROADS. ALL SUCH MATERIAL SHALL BE PROMPTLY
- THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL REPAIR ANY DAMAGE TO PUBLIC ROADS CAUSED BY THE CONTRACTOR TO THE SATISFACTION OF THE GOVERNING AUTHORITIES.
- 9.2. THE CONTRACTOR IS TO ARRANGE HIS USE OF PUBLIC AND PRIVATE ROADS IN ACCORDANCE WITH THE RELEVANT AUTHORITY'S REQUIREMENTS.

10. INSPECTIONS

- 10.1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ENSURING THAT ALL RELEVANT AUTHORITY INSPECTIONS ARE CARRIED OUT IN A TIMELY MANNER.
- 10.2. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION OF ALL INSPECTIONS.

11 FXPLOSIVES

- THE USE OF EXPLOSIVE WILL BE PERMITTED ONLY WITH THE WRITTEN PERMISSION OF THE PROPERTY OWNER AND THE PM. WHEN APPROVED, BLASTING SHALL BE CARRIED OUT IN STRICT ACCORDANCE WITH THE REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION OVER THE WORK.
- 11.2. ADJOINING PROPERTY OWNERS LIKELY AFFECTED BY THE BLASTING SHALL BE NOTIFIED IN ADVANCE, IN WRITING. ALL SUCH NOTIFICATIONS SHALL BE
- 11.3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL CLAIMS AS A RESULT OF HIS BLASTING ACTIVITY.

12. NOISE LEVELS

12.1. THE CONTRACTOR SHALL ENSURE THAT STATE AND LOCAL REGULATIONS ARE COMPLIED WITH IN REGARD TO NOISE LEVELS PRODUCES BY HIS OR HIS SUBCONTRACTOR'S EQUIPMENT OR METHODS OF CONSTRUCTION.

13. DUST CONTROL

THE CONTRACTOR SHALL TAKE ALL NECESSARY STEPS TO LIMIT THE CREATION OF ANY DUST NUISANCE THAT MIGHT ARISE DURING CONSTRUCTION, TO THE SATISFACTION OF THE LOCAL AUTHORITIES AND THE PROPERTY OWNER.

14. PRESERVATION OF TREES AND SHRUBS

14.1. THE CONTRACTOR AND HIS EMPLOYEES AND SUBCONTRACTORS SHALL REFRAIN FROM DESTROYING, REMOVING, OR CLEARING TREES AND SHRUBS UNLESS SPECIFICALLY REQUIRED ON THE CONSTRUCTION DRAWINGS OR APPROVED BY THE CARRIER'S PM.

15. PERSONNEL AND EQUIPMENT

15.1. THE CONTRACTOR SHALL SUPPLY ALL PERSONNEL, SUPERVISION, EQUIPMENT, TOOLS, TRANSPORTATION, AND LODGING NECESSARY TO COMPLETE THE WORK AS SPECIFIED ON THE CONSTRUCTION DRAWINGS AND MASTER SPECIFICATIONS.

II. <u>DRIVE LAYOUT</u>

MINIMUM WIDTH - 12' 1.

- 1.1. MINIMUM TURNING RADIUS 50' FROM ROAD
- 1.2. MAXIMUM GRADE 15%
- 1.3. INCREASE WIDTH OF DRIVES IN TURNS TO 15' ALONG INNER RADIUS OF 12'

DRIVES, 18' FOR 15' WIDTH DRIVES.

- FLARE ACCESS DRIVE TO 15' OR TO MEET LOCAL CODES AT INTERSECTION 1.4. WITH OTHER ROADS.
- INSTALL TURNAROUND SITE BASIC LAYOUT DRAWING PLANS AS PROVIDED

DRIVE DRAINAGE

- DRIVES ACROSS LEVEL GROUND 2" CROWN WITH DITCHES CONSTRUCTED ON EITHER SIDE OF DRIVE.
- DRIVES PERPENDICULAR TO SLOPE 0 TO 10% DRIVE SURFACE TO BE FLUSH WITH EXISTING GRADE TO ALLOW RUN-OFF TO SHEET ACROSS DRIVE. 11%> -2" SLOPE WITH DITCH CONSTRUCTED ON HIGH SIDE OF DRIVE. PROVIDE 15" CORRUGATED METAL PIPE DRAINAGE CULVERTS AS REQUIRED.

4. EROSION CONTROL AT DRIVES

THE CONTRACTOR SHALL INSTALL AND MAINTAIN AT ALL TIMES SUFFICIENT MEASURES TO PREVENT SOIL AND DEBRIS FROM CONTAMINATING ADJACENT PROPERTIES, ROADS, WALKWAYS, STORM DRAINAGE SYSTEMS, AND WATERWAYS. SEE DRAWINGS.

5 PUBLIC ROADS

THE CONNECTION OF ACCESS DRIVES TO THE PUBLIC THOROUGHFARES SHALL CONFORM TO THE STANDARDS OF THE DEPARTMENT OF Transportation having jurisdiction in that area. Specific connection DETAILS WILL BE PROVIDED BY THE A/E.

6. CLEARING AND GRUBBING OF ROADWAY

- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL DRIVE CENTERLINES, CURB CUTS, ETC.
- WITHIN THE STANDARD DRIVE AREA, THE CONTRACTOR SHALL REMOVE ALL TREES, STUMPS, LOGS, ROOTS, BRUSH, SURFACE BOULDERS, EXISTING FOUNDATIONS, FENCES, AND STRUCTURES OF ALL DESCRIPTIONS. ALL GRUB HOLES OR OTHER DEPRESSIONS RESULTING FROM THE CLEARING AND/OR GRUBBING WORK SHALL BE BACKFILLED AND COMPACTED WITH APPROVED MATERIAL
- 6.2.1. ALL MATERIAL CLEARED AND GRUBBED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE TO A LEGAL DUMPING AREA.
- BURIAL OF MATERIAL ON SITE CAN ONLY BE DONE WITH WRITTEN PERMISSION FROM THE LANDOWNER AND THE PM.

7. FILL & BORROW MATERIAL - REFER TO DRAWN DETAILS

III. SITE WORK

1. EROSION CONTROL

- THE CONTRACTOR SHALL INSTALL AND MAINTAIN AT ALL TIMES SUFFICIENT MEASURES TO PREVENT SOIL AND DEBRIS FROM CONTAMINATING ADJACENT PROPERTIES, ROADS, WALKWAYS, STORM DRAINAGE SYSTEMS, AND
- ONCE GRADING OPERATIONS ARE COMPLETE, ALL DISTURBED AREAS THAT DO NOT RECEIVE PAVEMENT OR STRUCTURES SHALL BE PLANTED WITH SEED AND MULCH OR SOD, AS INDICATED ON THE CONSTRUCTION DRAWINGS.

2 CLEARING AND GRUBBING OF THE SITE

- THE CONTRACTOR SHALL PROPERLY IDENTIFY THE AREAS TO BE CLEARED AS SHOWN ON THE CONSTRUCTION DRAWINGS PRIOR TO COMMENCING CLEARING OPERATIONS. CLEARING LIMITS SHALL EXTEND APPROX. 15' OUTSIDE THE AREA TO BE FENCED BUT NOT CROSSING THE LANDOWNER'S PROPERTY BOUNDARIES.
- FORM MATERIALS SHALL BE SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF CEMENT PASTE
- ALL FORM SURFACES EXPOSED TO THE CONCRETE SHALL BE THOROUGHLY CLEANED AND COATED WITH COMMERCIAL GRADE, NON-STAINING, NON-TOXIC
- WITHIN THE GUY PATH AND GUY ANCHOR AREAS. THE CONTRACTOR SHALL REMOVE ALL TREES (UNLESS OTHERWISE NOTED), STUMPS, LOGS, ROOTS, BRUSH, SURFACE BOULDERS, EXISTING FOUNDATIONS. FENCES

and structures of all descriptions. After clearing, the area is to be graded and sown down so the areas can be maintained WITH TRACTOR AND BUSHHOG.

- BEYOND THE CLEARING LIMITS, TRIM UP OR CUT DOWN ANY TREES 2.3.2. THAT WOULD DAMAGE THE GUY WIRES OR GUY ANCHOR COMPOUNDS SHOULD THEY FALL.
- 2.4. ALL MATERIAL CLEARED AND GRUBBED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE TO A LEGAL
- BURIAL OF MATERIAL ON SITE CAN ONLY BE DONE WITH THE WRITTEN PERMISSION FROM THE LANDOWNER AND THE PM.

3. FILL AND BORROW MATERIAL - REFER TO DRAWN DETAILS

FINISH GRADING

- 4.1. THE ENTIRE SITE ARE SHALL BE GRADED UNIFORMLY TO PREVENT PONDING OF SURFACE WATER AND PROVIDE POSITIVE DRAINAGE AWAY FROM EQUIPMENT, PARKING AREAS, TOWER FOUNDATIONS AND GUY ANCHORS.
- WHERE REQUIRED BY THE SLOPE OF THE WORK TOPSOIL WITHIN THE GRADED AREA SHALL BE STOCKPILED FOR LATER USE IN LANDSCAPING, AFTER COMPLETION OF CONSTRUCTION WORK THE TOPSOIL SHALL BE UNIFORMLY SPREAD OVER DISTURBED AREAS AND FINISH GRADED TO ACCEPT SEED AND MULCH OR SOD AS INDICATED ON THE CONSTRUCTION DRAWINGS
- PROTECT NEWLY GRADED AREAS FROM EROSION AND TRAFFIC. WHERE EROSION, RUTTING, OR SETTLEMENT OCCURS DUE TO WEATHER CONDITIONS OR CONSTRUCTION ACTIVITIES. REPAIR AND REESTABLISH GRADES TO THE REQUIRES CONTOURS. SEE DRAWINGS FOR EROSION CONTROL DEVICES.

5. SITE AND GUY ANCHOR COMPOUND PAVEMENT

- 5.1. INSTALL A LAYER OF MIRAFI 500X GEOTEXTILE FABRIC (OR APPROVED EQUAL) WITH 4" MINIMUM LAYER OF #57 OR 3/4" CLEAN STONE. EXTEND PAVING MATERIAL ONE FOOT OUTSIDE THE FENCE LINE TO MINIMIZE SITE MAINTENANCE. SEE PLANS FOR SPECIFIC REQUIRED GRAVEL THICKNESS.
- ON SITES THAT REQUIRE A DIFFERENT SITE COMPOUND MATERIAL DUE TO THE PERMITTING AGENCIES, THE FABRIC AND #57 STONE OR EQUIVALENT MATERIAL WILL BE ELIMINATED AND THE SURFACE MATERIAL THAT IS SHOWN ON THE CONSTRUCTION DRAWINGS WILL BE USED.

SITE SPECIFICATIONS REFER TO BOTH RAW LAND AND CO-LOCATION

SITES. REFERENCE SITE PLANS FOR TYPE OF SITE AND USE

*NOTE: PM REFERS TO TILLMAN PROJECT MANAGER

APPLICABLE SPECIFICATIONS.







9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

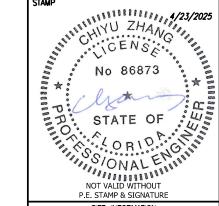
23-2337

DRAWN BY: RM CHECKED BY: C7 REVISIONS

REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES RM 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM RM 0 05/30/24 FINAL CD

STAMP

ACGL NO:



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

> SITE ADDRESS 1320 SW MARTHA ST ARCADIA, FL 34266

SHEET TITLE:

ARCADIA FL TI-05363

GENERAL NOTES

TOWER FOUNDATIONS ARE NOT INCLUDED IN THE SCOPE OF THESE DOCUMENTS

IN ADDITION TO THE IMPROVEMENTS SPECIFICALLY DETAILED ON THESE PLANS, DRILLING AND/OR FORMING THE TOWER FOUNDATION. PLACEMENT OF THE REQUIRED REINFORCING STEEL AND STACKING THE TOWER SHALL BE COMPLETED BY A COMPETENT CONTRACTOR FAMILIAR WITH ALL INDUSTRY CONSTRUCTION STANDARDS AND SAFETY MEASURES.

٧. CONCRETE

1. GENERAL

BEFORE ANY CONCRETE FOUNDATION CONSTRUCTION BEGINS, THE 1.1. CONTRACTOR SHALL VERIFY THE LOCATION AND CORRECT PLACEMENT OF THE PADS AS SHOWN ON THE CONSTRUCTION DRAWINGS.

FORMWORK

- PLACE, ERECT, SUPPORT, AND BRACE FORMS TO PROVIDE CONCRETE STRUCTURES HAVING THE SHAPE, LINES, AND DIMENSIONS INDICATED ON THE CONSTRUCTION DRAWINGS. FABRICATE FORMS TO ALLOW FOR EASY REMOVAL AFTER CONCRETE CURING.
- FORM MATERIALS SHALL BE SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF 2.2.
- ALL FORM SURFACES EXPOSED TO THE CONCRETE SHALL BE THOROUGHLY CLEANED AND COATED WITH COMMERCIAL GRADE, NON-STAINING, NON-TOXIC

3. CONCRETE REINFORCEMENT

- ALL REINFORCING BARS SHALL BE GRADE 60 DEFORMED BARS CONFORMING TO ASTM A 615 GRADE 60 STANDARDS, UNLESS OTHERWISE NOTED, AND SHALL BE FREE OF LOOSE RUST AND SCALE.
- HEATING AND WELDING OF REINFORCING BARS IN STRICTLY PROHIBITED.
- ALL REINFORCING BOLSTER CHAIRS, SPACERS, AND OTHER ACCESSORIES FOR FASTENING OR POSITIONING BARS SHALL CONFORM TO CRSI SPECIFICATIONS AND SHALL BE ACCURATELY POSITIONED AND SECURED WHILE THE CONCRETE IS BEING PLACED
- ALL REINFORCEMENT SHALL HAVE MINIMUM CONCRETE COVER OF 3", UNLESS OTHERWISE NOTED.

4. READY-MIX CONCRETE

- ALL EQUIPMENT/SHELTER FOUNDATION READY-MIX CONCRETE SHALL BE 3000 PSI MINIMUM AND SHALL CONFORM TO ASTM C 94 STANDARDS.
- CONCRETE SLUMP SHALL BE 4" MINIMUM TO 7" MAXIMUM FOR CONCRETE PLACED IN EQUIPMENT FOUNDATION.
- INTRODUCTION OF ADDITIONAL WATER TO CONCRETE ON SITE SHALL BE IN ACCORDANCE WITH SECTION 11.7 OF ASTM C 94 AND SHALL NOT CAUSE CONCRETE TO EXCEED THE MAXIMUM SPECIFIED SLUMP.
- 4.4. THE USE OF APPROVED SET RETARDING ADMIXTURES IS PERMISSIBLE.

5. PLACING CONCRETE

- IMMEDIATELY BEFORE PLACING CONCRETE. THE CONTRACTOR SHALL INSPECT ALL FRAMEWORK, REINFORCING STEEL, AND EMBEDDED ITEMS TO VERIFY CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS
- NO CONCRETE SHALL BE PLACED ON FROZEN OR SATURATED GROUND.
- ALL DEBRIS AND EXCESS MATERIALS SHALL BE REMOVED FROM THE EXCAVATION PRIOR TO PLACING CONCRETE.
- ONCE A FOUNDATION POUR IS STARTED IT MUST BE COMPLETE IN A
- DURING AND IMMEDIATELY AFTER PLACING THE CONCRETE, USE MECHANICAL VIBRATORS TO CONSOLIDATE CONCRETE AROUND REINFORCING STEEL, ANCHOR BOLTS AND INTO CORNERS. DO NOT ALLOW THE CONCRETE TO SEPARATE DURING VIBRATING.

6. WEATHER CONCRETE PLACEMENT

DURING COLD WEATHER CONSTRUCTION, CONCRETE DELIVERED SHALL HAVE A MINIMUM PLACEMENT TEMPERATURE OF 50 DEGREES F.

- 6.2. DO NOT USE ANTIFREEZE AGENTS OR CHEMICAL ACCELERATORS WITHOUT APPROVAL OF THE PM.
- 6.3. IF TEMPERATURES ARE EXPECTED TO BE BELOW 40 DEGREES F WITHIN 6
 HOURS OF PLACING THE CONCRETE, PROVISIONS SHALL BE MADE TO MAINTAIN A CONCRETE TEMPERATURE OF 50 DEGREES F FOR 5 DAYS OR 70 DEGREES F FOR 3 DAYS.

7. HOT WEATHER CONCRETE PLACEMENT

- 7.1. DURING HOT WEATHER CONSTRUCTION, COMPLY WITH ACI 305 STANDARDS AS SPECIFIED. CONCRETE DELIVERED IN HOT WEATHER SHALL NOT EXCEED 95 DEGREES F AT TIME OF PLACEMENT.
- USE ICE OR OTHER METHODS TO COOL THE WATER AND AGGREGATE PRIOR TO MIXING, IN ORDER TO ACHIEVE A CONCRETE TEMPERATURE AT POINT OF PLACEMENT AND DURING THE CURING PROCESS OF LESS THAN 95 DEGREES

8. FINISHING

- UNITES OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS OR "SPECIAL NOTES" PAGE, ALL EXPOSED SURFACES SHALL RECEIVE A MEDIUM BROOM FINISH PARALLEL TO THE SHORT SIDE OF THE FOUNDATION. EXPOSED EDGES OF ALL FOUIPMENT FOUNDATIONS SHALL RECEIVE FITHER A 3/4" BY 3/4" 45 DEGREE CHAMFER OF A 1" RADIUS TOOLED FINISH.
- 8.2. FOUNDATION TOPS THAT POND WATER WILL NOT BE ACCEPTED.
- AFTER FORMS ARE REMOVED ALL EXPOSED SURFACES ARE TO BE REPAIRED. TO INCLUDE FILLING OF VOIDS AND PUDDLING, AND RUBBED AND BRUSHED OUT TO PRESENT A UNIFORM APPEARANCE.

CURING OF FOUIPMENT FOUNDATIONS SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING METHODS:CONTINUOUSLY SPRINKLE OR POND SURFACES WITH CARE SHOULD BE TAKEN IN THE DISPOSAL OF RUNOFF WATER TO PREVENT EARTHWORK EROSION AND SUBGRADE DETERIORATION.

COVER SURFACE WITH POLYETHYLENE TO CONTAIN MOISTURE.

COVER SURFACE WITH WET BURLAP.

EXTREME CARE SHOULD BE TAKEN DURING HOT WEATHER TO PREVENT RAPID EVAPORATION OF MIX WATER DURING CONCRETE CURING.

VI. CONCRETE TESTING AND INSPECTIONS

1. GENERAL

- THE GEOTECHNICAL FIRM SHALL ACCOMPLISH CONCRETE TESTING AND INSPECTIONS. THE COST OF TESTING SHALL BE PAID BY THE CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE GEOTECHNICAL FIRM PROJECT MANAGER A MINIMUM OF 24 HOURS IN ADVANCE OF ALL FOUNDATION POURS.
- CONCRETE TEST CYLINDER CASTING SHALL BE DONE ACCORDING TO THE FOLLOWING SCHEDULE: MAT FOUNDATION - ONE SET IF DONE IN ONE POUR, OR ONE SET FOR THE MAT AND ONE SET FOR THE PIERS. SPREAD FOOTING AND PIER - ONE SET IF ONE IN ONE POUR, OR ONE SET FOR THE SPREAD FOOTING AND ONE SET FOR THE PIER.

2. TEST CYLINDERS

- EACH TEST SHALL CONSIST OF 5 CYLINDERS THAT ARE CAST AND CURED IN ACCORDANCE WITH ASTM C 31 AND TESTED IN ACCORDANCE WITH ASTM C 39. TESTING SCHEDULE IS AS FOLLOWS: ONE CYLINDER AT 7 DAYS, ONE CYLINDER AT 14 DAYS, AND ONE AT 28 DAYS.
- OF THE REMAINING 2 CYLINDERS, ONE IS TO BE A SPARE AND ONE WILL BE USED FOR A 3 DAY TEST DUE TO AN ACCELERATED TOWER
- 2.2. FOR PROPER RECORD KEEPING, EACH SET OF TEST CYLINDERS SHALL BE MARKED WITH THE DATE AND TIME OF THE DAY THE CYLINDERS WERE MADE, THE SITE NUMBER AND LOCATION, THE BATCH NUMBER, THE AIR CONTENT,
- 2.3. WRITTEN CONFIRMATION OF THE CYLINDER TESTS SHALL BE SENT TO THE PM.

3.1. FIELD TESTING OF FRESH CONCRETE SHALL CONSIST OF THE FOLLOWING:

SLUMP TEST, AIR CONTENT, AND TEMPERATURE. AMBIENT AIR TEMPERATURE SHALL ALSO BE CHECKED AND RECORDED.

4. ADDITIONAL CONCRETE TESTING

- A TESTING AGENCY MAY TAKE CORE SAMPLES OF IN-PLACE CONCRETE WHEN TEST RESULTS ARE SUCH THAT THERE IS REASONABLE DOUBT THAT SPECIFIED CONCRETE STRENGTHS HAVE BEEN OBTAINED.
- THE TESTING AGENCY SHALL CONDUCT TESTS TO DETERMINE THE STRENGTH OF THE IN-PLACE CONCRETE BY COMPRESSION TESTS ON CORED CYLINDERS COMPLYING WITH ASTM C 42, OR BY LOAD TESTING AS OUTLINED IN ACI
- COST OF ADDITIONAL TESTING, INCLUDING CORE TESTS, LOAD TESTS, OR OTHER TESTING AS DETERMINED BY THE PM WHENEVER CONCRETE FAILS TO MEET SPECIFIED CRITERIA. SHALL BE PAID BY THE CONTRACTOR.

AC POWER AND TELCO

GENERAL

- 1.1. THE BASIC AC POWER AND TELCO REQUIREMENTS ARE AS FOLLOWS:
- 1.2. SITES WITH HAZARD LIGHTING

120/240 VAC SINGLE PHASE, 800 AMP FEED TO THE POWER DISTRIBUTION PANEL, METERED SERVICE TO THE 120/240 VAC SINGLE PHASE, 125 AMP SUB PANEL TO POWER THE HAZARD LIGHTING CONTROLLER AND THE ALARM CONTROL PANEL, AND A TELCO "POTS" LINE TO THE ALARM CONTROL PANEL.

ON SITES WITH HAZARD LIGHTING, THE CONTRACTOR IS RESPONSIBLE FOR MAKING THE APPLICATION FOR POWER.

CONTACT THE PM FOR ANY WRITTEN AUTHORIZATION THAT MAY BE REQUIRED BY THE UTILITY FOR SETTING UP THESE ACCOUNTS.

CONTRACTOR SHALL ALSO SCHEDULE AND COORDINATE THE INSTALLATION AND CONNECTION OF THESE SERVICES.

SITES WITHOUT HAZARD LIGHTING

EACH FUTURE CARRIER'S CONTRACT SHALL DICTATE THE SCOPE OF WORK FOR SECONDARY AND PRIMARY DISTRIBUTION RUNS. 120/240 VAC SINGLE PHASE, 200 AMP FEED TO THE POWER DISTRIBUTION

CONTRACTOR IS RESPONSIBLE FOR ONLY INSTALLING THE POWER

DISTRIBUTION PANEL AND ASSOCIATED CONDUITS, THE TELCO CONDUITS, AND OBTAINING THE ROUGH-IN INSPECTIONS. ON SITES WITHOUT HAZARD LIGHTING, THE CARRIER IS RESPONSIBLE FOR MAKING THE APPLICATION FOR POWER, INCLUDING APPLICATION FEES AND

DEPENDING ON THE PROJECT SCOPE OF WORK, THE CONTRACTOR MAY ALSO SCHEDULE AND COORDINATE THE INSTALLATION AND CONNECTION OF THESE

2. MATERIALS

SERVICES.

- ALL CONDUITS SHALL BE SCHEDULE 40 PVC, OR AS SPECIFIED ON DESIGN DRAWINGS. ALL JOINTS SHALL BE MADE WATERTIGHT USING SOLVENT CEMENT SPECIFICALLY DESIGNED FOR USE WITH PVC CONDUIT.
- ALL EXPOSED MATERIALS ARE TO BE HOT DIPPED GALVANIZED OR HAVE FINISHES APPROVED FOR OUTDOOR USE. 2.2.
- POSTS SUPPORTING POWER DISTRIBUTION SYSTEM ARE TO BE CAPPED WITH
- ALL OTHER MATERIALS SHALL BE AS SPECIFIED ON THE CONSTRUCTION DRAWINGS OR IN THE NATIONAL ELECTRIC CODE.

3. COMMERCIAL AC POWER

- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ASSOCIATED LABOR FOR CONSTRUCTION OF THE POWER DISTRIBUTION PANEL SYSTEM AS SHOWN ON THE CONSTRUCTION DRAWINGS. THIS SYSTEM INCLUDES THE CONDUIT(S) FOR THE INCOMING SERVICE, DISTRIBUTION PANEL AND THE POWER CONDUIT TO THE CARRIER LOCATION.
- ADDITIONALLY, SITES WITH HAZARD LIGHTING REQUIRE A NEMA TYPE 3R, 125 AMP MAIN LUG PANEL WITH TWO 15 AMP BREAKERS AND A DUPLEX RECEPTACLE FOR POWERING THE TOWER HAZARD LIGHTING CONTROLLER AND THE OPTO 22 MONITORING BOX. A CONDUIT WILL ALSO NEED TO BE INSTALLED FROM THE HAZARD LIGHT CONTROLLER TO THE OPTO 22 MONITORING BOX.
- ADDITIONALLY, WHEN INSTALLING THE OPTO 22 UNIT, THE OPTO 22 MONITORING FORM MUST BE FILLED OUT AND SENT ACCORDING TO INSTRUCTIONS.

4 INSTALLATION

- UNLESS OTHERWISE NOTED ON THE CONSTRUCTION DRAWINGS OR REQUIRED BY THE LOCAL UTILITY, THE ELECTRIC SERVICE IS TO BE A 120/240 VAC SINGLE PHASE, 800 AMP UNDERGROUND SERVICE.
- 4.2. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 3' BELOW FINISHED GRADE.
- IN ALL TRENCHES THAT CONTAIN FLECTRIC POWER CONDUITS, WARNING TAPE "BURIED ELECTRIC CABLES" IS TO BE INSTALLED 12" BELOW FINISHED GRADE
- ON SITES THAT REQUIRED HAZARD LIGHTING, THE TOP ELECTRIC METER WILL BE FOR THE TOWER OPERATOR, UNLESS ANOTHER LOCATION IS REQUIRED BY THE LOCAL UTILITY

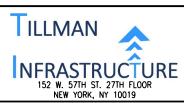
5.1. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ASSOCIATED LABOR FOR THE CONSTRUCTION OF THE REQUIRED TELCO RUNS TO DEMARC LOCATION AS DIRECTED BY TELEPHONE COMPANY, AND/OR TO OPTO 22 MONITORING BOX AS SHOWN ON THE CONSTRUCTION DRAWINGS.

6. INSTALLATION

6.1. ALL BURIED CONDUITS SHALL BE A MINIMUM OF 2' BELOW FINISHED GRADE, ALL EMPTY CONDUITS WILL HAVE PULL CORDS LEFT IN EACH CONDUIT.

SIGNAGE

- CARRIER IDENTIFICATION SIGNS ARE TO BE ATTACHED TO THE METERING PANEL OPPOSITE THE METER TO ELIMINATE CONFUSION FOR THE UTILITY
- AN IDENTIFYING SIGN WILL BE ATTACHED TO THE PANEL OPPOSITE THE METER FOR THE HAZARD LIGHTING SYSTEM.
- TOWER INSTALLATION IS NOT INCLUDED IN THE SCOPE OF THESE DOCUMENTS.
- ANTENNA MOUNTS AND ASSOCIATED EQUIPMENT ARE NOT INCLUDED IN THE SCOPE OF THESE DOCUMENTS. IX.



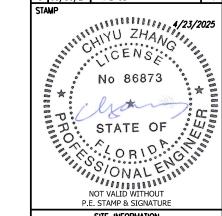




9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGL NO: 23-2337 DRAWN BY: RM CHECKED BY: C7 REVISIONS

REV DATE DESCRIPTION 4 04/23/25 DRC COMMENTS & REDLINES RM 3 03/05/25 DRC COMMENTS & REDLINES 2 10/15/24 CITY COMMENTS RM 1 07/25/24 REV. PER CM REDLINES RM 0 05/30/24 FINAL CD



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

TI-OPP-29300 TILLMAN SITE NAME BERNARDO HERNANDEZ-VILLANUEVA

> ARCADIA FL TI-05363 SITE ADDRESS 1320 SW MARTHA ST ARCADIA, FL 34266

> > SHEET TITLE:

GENERAL NOTES

GROUNDING SPECIFICATIONS

INTRODUCTION

- GROUNDING IS PROVIDED AT ALL COMMUNICATIONS LOCATIONS FOR THE 1.1.
- PROTECTION OF PERSONNEL AGAINST INJURY OR DEATH FROM CONTACT WITH HIGH POTENTIALS ASSOCIATED WITH LIGHTNING CURRENT.
- TO MEET NATIONAL ELECTRIC CODE (NEC) STANDARDS FOR PERSONNEL 1.1.2.
- TO PROTECT EQUIPMENT AGAINST DAMAGE FROM LIGHTNING CURRENTS 1.1.3. OR OTHER HIGH ELECTRICAL TRANSIENTS OR SURGES.
- TO FIX THE POTENTIAL OF EQUIPMENT TO A COMMON (EQUIPOTENTIAL) VALUE FOR THE PURPOSE OF INHIBITING INTERFERENCE BETWEEN CIRCUITS AND THE INJECTION OF NOISE INTO CIRCUITS.
- 115 AS AN OPERATIONAL REQUIREMENT OF THE FOLIPMENT SUPPLIER
- 1.1.6. PROTECTION OF EXISTING BUILDING STRUCTURES FROM DAMAGE BY LIGHTNING CURRENTS IN ACCORDANCE WITH NEPA 780.
- FOR A GROUND SYSTEM TO MEET ALL THE ABOVE REQUIREMENTS, IT MUST PROVIDE A LOW IMPEDANCE TO THE GENERAL MASS OF THE 1,1,7, EARTH. THE NEED TO PROTECT AGAINST THE EFFECTS OF A LIGHTNING STRIKE OR LIGHTNING INDUCE TRANSIENTS IS PROBABLY THE MOST DEMANDING AND REQUIRES LOW "SURGE IMPEDANCES" TO FARTH WHICH IN TURN REQUIRES PARTICULAR ATTENTION TO BONDING PRACTICES AND WIRING METHODS, E.G. CONDUCTORS TO BE AS SHORT AND DIRECT AS PRACTICAL WITHOUT SHARP BENDS.
- THE GROUNDING METHODS AND PRACTICES SET OUT IN THIS DOCUMENT ARE DESIGNED TO PROVIDE A UNIFORM STANDARD OF GROUNDING AND PROTECTION AT ALL COMMUNICATION LOCATIONS CONSISTENT WITH THE ABOVE CONCEPTS. THIS STANDARD SHOULD BE USED AS THE OBJECTIVE TO BE SOUGHT. HOWEVER, SITE CONSTRAINTS ARE ACKNOWLEDGED TO LIMIT SPECIFIC CONFORMITY, AND IN SOME CASES WILL REQUIRE THE PRINCIPLES OF THIS STANDARD TO BE FOLLOWED, RATHER THAN THE PRECISE DETAILS.
- THEREFORE, ANY EXCEPTIONS TO THIS STANDARD THROUGH DESIGN OR MODIFICATION STAGES, SHALL BE CITED ON LOCAL GROUNDING AND/OR LIGHTNING PROTECTION SYSTEM DESIGN DRAWINGS.
- IT IS IMPORTANT TO REALIZE THAT LIGHTNING AND LIGHTNING PROTECTION ARE PROBABILITY PHENOMENA. WE CANNOT BE 100% POSITIVE THAT A FACILITY IS PROTECTED FROM LIGHTNING BECAUSE THE PROTECTION SYSTEM IS "CORRECTLY" INSTALLED. BETTER PROTECTION LOWERS THE PROBABILITY OF DAMAGING LIGHTNING STRIKES. QUALITY MATERIAL IMPROPERLY INSTALLED DOES NOT GENERALLY PROVIDE BETTER

2. GENERAL DESCRIPTION

- THE TILLMAN WIRELESS (TILLMAN) GROUNDING STANDARD IS BASED ON PROVIDING PERSONNEL SAFETY, AS WELL AS EQUIPMENT AND STRUCTURAL PROTECTION IN THE EVENT OF A NEARBY LIGHTNING DISCHARGE, AT ALL COMMUNICATION LOCATIONS.
- APPROACHING THUNDERSTORMS SHOULD BE ANTICIPATED. AND MAINTENANCE AVOIDED UNTIL STORMS HAVE CLEARED. DURING THUNDERSTORMS AVOID THE USE OF OR CONTACT WITH ELECTRICAL APPLIANCES, TELEPHONES, RF CABLES, MASTS, PLUMBING
- AN INTERCONNECTED DRIVEN GROUND ROD SYSTEM IS EMPLOYED AS THE BASIS FOR THE TILLMAN GROUNDING RODS, FORMS A RING AROUND THE BUILDING. THE
 EXTERIOR BURIED GROUND RING SYSTEM IS USED IN CONJUNCTION WITH AN INTERIOR GROUND RING SYSTEM SURROUNDING THE COMMUNICATIONS EQUIPMENT IN THE BUILDING'S INTERIOR. MULTIPLE BONDS BETWEEN THE EXTERIOR AND INTERIOR RINGS, PLUS CONNECTIONS TO THE BUILDING, ARE UTILIZED IN AN ATTEMPT TO MINIMIZE POTENTIAL DIFFERENCES BETWEEN ADJACENT METALLIC OBJECTS.
- 2.4. THE DESIGN CRITERIA FOR RESISTANCE TO GROUND IS 5 OHMS OR LESS. THE DRIVEN GROUND ROD SYSTEM RECOMMENDED HEREIN IS DESIGNED TO PRODUCE AS LOW A RESISTANCE AS PRACTICAL WITHIN REASONABLE ECONOMIC LIMITATIONS, AND TO PROVIDE A FIELD OF MINIMUM DETERIORATION WITHIN THOSE SAME LIMITATIONS.
- A COMPLETE GROUND ROD SYSTEM SHALL CONSIST OF THE FOLLOWING
- A BURIED EXTERIOR FIELD (FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR) CONSISTING OF SHELTER GROUND RING, TOWER GROUND RING. ICE BRIDGE GROUNDING, PERIMETER GROUND RING, GROUND RODS, CONNECTIONS BETWEEN GROUND RINGS AND CONNECTIONS TO FENCES. TOWER. GENERATORS, FUEL TANKS, GATES, MISC. METAL OBJECTS AND EXTERIOR MOUNTED SHELTER EQUIPMENT (A/C UNITS, GROUND BARS, DOOR FRAMES, CABLE PORTS, EMERGENCY GENERATOR RECEPTACLE, POWER OUTLET, ETC.)

- WHERE FOLIPMENT SHELTERS ARE REQUIRED AN EXPOSED INTERIOR GROUND FIELD (FURNISHED AND INSTALLED BY THE SHELTER MANUFACTURER) CONSISTING OF INTERIOR SHELTER HALO WITH GROUND TO ALL TELECOMMUNICATIONS EQUIPMENT, POWER AND TELCO, OUTLETS, DOOR AND FRAME, GROUND BARS, A/C UNIT FRAMES, CABLE PORTS, CABLE RACKS, STEEL CONDUIT AND JUNCTION BOXES AND ALL OTHER
- 2.5.3. TOWER GROUNDING (FURNISHED AND INSTALLED BY THE GENERAL CONTRACTOR) CONSISTING OF LIGHTNING ROD, DRIVEN GROUND RODS AND #2 AWG WIRE.
- COAXIAL CABLE GROUNDING CONSISTING OF UPPER, MIDDLE, LOWER AND SHELTER ENTRY GROUND BARS, C.R.G.B. AND RELATED GROUND
- THE GENERAL CONTRACTORS SHALL ALSO FURNISH AND INSTALL SPECIFIC GROUND CONNECTIONS AS FOLLOWS:
- WHERE EQUIPMENT SHELTERS ARE REQUIRED, PROVIDE BETWEEN INTERIOR AND EXTERIOR GROUND RINGS THRU SLEEVES IN WALL OF
- 2.6.2. BETWEEN EXTERIOR GROUND AND INTERIOR POWER AND TELCO PANEL
- BETWEEN EXTERIOR GROUND RING AND INTERIOR GROUND BAR (C.R.G.B.) 2.6.3. AT CABLE PORT.

3. MATERIALS

- 3.1. GROUND RINGS NO. 2 AWG BARE, SOLID, TINNED COPPER WIRE (STRANDED WIRE IS NOT ACCEPTABLE OUTSIDE SHELTER)
- GROUND RODS SOLID, COPPER CLAD, STEEL RODS, 5/8" DIAMETER TYPICALLY 10 FEET LONG (USE 10 FEET LONG AT INSPECTION WELLS).
- CONNECTIONS WHERE REQUIRED ALL CONNECTIONS INSIDE SHELTER TO BE BY NON-CORROSIVE COMPRESSION CONNECTORS (SUCH AS "BRUNDY" TYPE INSTALLED WITH THE PROPER TOOL). ALL CONNECTIONS BELOW GRADE TO BE EXOTHERMIC WELDS. ABOVE GROUND CONNECTORS (EXCEPT INSIDE SHELTERS) SHALL BE MADE WITH EXOTHERMIC WELDS. WHERE PRACTICAL, OR WITH 2 HOLE MECHANICAL TYPE CONNECTORS, EXCEPTION: ALL CONDUCTORS FROM RING TO GROUND BAR TO BE BY EXOTHERMIC WELD (INSIDE OR OUTSIDE SHELTER).
- INSPECTION SLEEVES SCHEDULE 40 WHITE PVC PLASTIC, 6" DIAMETER BY 24" LONG WITH REMOVABLE WHITE PVC CAPS/COVER AND SLOTTED BOTTOM ENDS TO FIT OVER THE GROUND RING CABLE
- INSPECTION SLEEVE OVER CHEMICAL GROUND ROD PLASTIC, IRRIGATION VALUE BOX WITH PERFORATED COVERS
- CHEMICAL GROUND RODS USED IN SOIL WITH POOR RESISTIVITY OR CERTAIN SITE CONDITIONS, CHEMICAL GROUND ROADS ARE USED AND INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS, USE UNDER THE DIRECTIONS OF THE TILLMAN WIRELESS CONSTRUCTION MANAGER.
- CONNECTION PROTECTION COMPRESSION CONNECTIONS TO BE PROTECTED WITH ANTIOXIDANT COMPOUND, EXOTHERMIC WELDS SHALL BE TREATED WITH TWO COATS OF ZINC RICH, COLD GALVANIZED PAINT. COMPRESSIONS CONNECTIONS SHALL BE MADE WITH THE PROPER TOOL.
- GROUND WIRES AND LEADS NO. 2 AWG BARE, SOLID, TINNED, COPPER
- 3.9. GROUND BARS - 1/4" THICK SOLID, TINNED COPPER - LENGTH AND WIDTH
- 3.10. WELDED CABLE GATE BONDS OR FLEXIBLE GROUND WIRES FLEXIBLE JUMPERS STRAP SIMILAR TO BELDEN #8662 FLAT BRAID TINNED COPPER (USED AS GATE JUMPERS).
- LIGHTNING RODS BUILDING: AS PER ENGINEER'S RECOMMENDATIONS FOR SHELTERS OUTSIDE THE TOWER "SPHERE OF INFLUENCE." TOWER: AIR TERMINALS AT LEAST 4 FEET LONG, BONDED TO THE TOWER.

- THE CONTRACTOR SHALL INSTALL THE GROUNDING SYSTEM IN STRICT ACCORDANCE WITH THESE SPECIFICATIONS, WHERE UNUSUAL SITE CONDITIONS REQUIRE DEVIATION FROM THESE STANDARDS, THE CONTRACTOR SHALL SEEK DIRECTION FROM THE
- 4.2. THE GROUNDING SYSTEM, INCLUDING ALL CONNECTIONS, SHALL BE INSTALLED BY

TECHNICIANS CERTIFIED AT THE PROCESS.

- 4.3. GROUND RINGS AND CONDUCTOR:
- ALL CONDUCTORS SHALL FORM A SMOOTH, DOWNWARD PATH TO GROUND WITH A MINIMUM NUMBER OF BENDS AND CURVES.
- THE MINIMUM ALLOWABLE BENDING RADIUS FOR ANY PORTIONS OF THE GROUND
- ALL CONNECTIONS BELOW GRADE SHALL BE BY EXOTHERMIC WELDS.
- NO MECHANICAL CONNECTIONS ARE ALLOWED OUTSIDE SHELTERS. EXCEPT THAT TWO-LUG COMPRESSION CONNECTIONS WITH ANTIOXIDANT PROTECTION IS ACCEPTABLE ONLY ON GROUND BARS.
- GROUND RINGS SHALL BE BURIED 24" MINIMUM BELOW SITE FINISHED GRADE OR AT LEAST 6" BELOW THE LOCAL FROST LINE, WHICHEVER IS GREATER.
- GROUND RODS SHALL BE DRIVEN VERTICALLY TO THE DEPTH OF THE GROUND RING AND CONNECTED TO THE GROUNDING CONDUCTOR BY EXOTHERMIC WELDS.
- OF ROCK OR OTHER OBSTRUCTIONS ARE ENCOUNTERED, THE RODS MAY BE DRIVEN AWAY FROM OR PARALLEL TO SHELTER SIDES AND UP TO 45 DEGREES OF VERTICAL TO OBTAIN HE REQUIRED DEPTH. GROUND ROADS SHALL PENETRATE THE FROST LINE IN ALL INSTALLATIONS.
- IN CASES WHERE IT IS NOT POSSIBLE TO INSTALL GROUND RODS BY DRIVING DUE TO SUBGRADE CONDITIONS, CORING AND BACKFILL WITH PROPER MATERIALS IS
- CHEMICAL GROUND RODS SHOULD BE INSTALLED AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. URN OVER 'RED TAGS" TO TILLMAN WIRELESS CONSTRUCTION
- 4.13. CONNECTIONS
- MAKE APPROPRIATE EXOTHERMIC WELDED CONNECTIONS OF CONDUCTORS TO GROUND RING AND GROUND RING TO GROUND RODS.
- PROTECT CONNECTORS ON GALVANIZED POSTS WITH TWO COATS OF ZINC RICH, COLD GALVANIZED PAINT.
- DO NOT COVER-UP GROUND RING UNTIL TILLMAN WIRELESS CONSTRUCTION 4.13.3. MANAGER HAS INSPECTED AND RECORDED HE OPEN GROUND FIELD

TESTING OF GROUNDING SYSTEM

- THE CONTRACTOR SHALL MEASURE THE GROUNDING SYSTEM RESISTANCE PRIOR TO BACKFILLING THE GROUND RING TRENCHES.
- THE CONTRACTOR SHALL USE THE 3 POINT "FALL OF POTENTIAL" METHOD FOR THE TEST AND SHALL USE THE FOLLOWING PARAMETERS: STANDARD TESTING PROCEDURE FOR MEASURING & REPORTING READING.
- THE OPTIMUM READING SHALL BE 5 OHMS (OR LESS) OR METHODS SHALL BE EMPLOYED TO ENHANCE THE GROUND FIELD.

6. INSPECTION SLEEVES

- WHERE THE SHELTER BURIED GROUND RING CONNECTS TO A TOWER GROUND RING, AN INSPECTION SLEEVE SHALL BE PROVIDED TO PERMIT VISUAL INSPECTION TO BE AN INSPECTION TO BE MADE OF THE GROUNDING CONNECTION. THESE SLEEVES AND COVERS SHALL BE FABRICATED FROM PVC PLASTIC, UNLESS THE GROUND ROD IS LOCATED IN AN AREA WHEN VEHICLES ARE LIKELY TO DRIVE, IN WHICH CASE, A SLEEVE OF TRAFFIC CARRYING QUALITY SHALL BE PROVIDED AND FABRICATED FROM CONCRETE, PLASTIC. OR STEEL COVER. COVERS SHALL BE REMOVABLE BY HAND, WITH NO TOOLS
- WHERE THE SHELTER BURIED GROUND RING CONNECTS TO A THESE SLEEVES SHALL BE POSITIONED CENTRALLY ABOUT THE CONNECTION WITH SLOTS CUT IN THE SIDE TO ALLOW THE EXTERIOR BURIED GROUND RING TO PASS HORIZONTALLY THROUGH. THE TOP OF THESE SLOTS ARE TO BE CUT WELL ABOVE THE EXTERIOR BURIED GROUND RING SO THAT IT WILL NOT BE DAMAGED IF THE SLEEVE IS FORCED DOWNWARD BY THE WEIGHT OF THE VEHICLE OR OTHER LOAD

7. BONDING OF METAL OBJECTS TO GROUND RING

- THE BURIED GROUND RING SHALL BE BONDED TO TOWER LEGS. EXTERIOR BURIED AND ABOVE SURFACE METALLIC OBJECTS, OTHER ELECTRODES, AND TO THE INTERIOR GROUND RING AND ANTENNA CABLE EXTERIOR HATCH-PLATE GROUND BARS.
- UNIT BONDS CONNECTED TO THE BURIED GROUND RING SHALL BE #2 AWG BARE UNIT BONDS CONNECTED IN THE BONDS OF THE BOND ON THE BOND ON THE BOND OF THE BOND ON THE B
- CONNECTIONS OTHER THAN EXOTHERMIC WELD SHALL BE LOCATED SO AS TO FACILITATE PERIODIC INSPECTION AND MAINTENANCE.
- ALL MECHANICAL CONNECTIONS SHALL BE TREATED WITH A PROTECTIVE, ANTIOXIDANT COATING, ALL EXOTHERMIC WELDS GALVANIZED SURFACES SHALL BE SPRAYED WITH

GALVANIZED PAINT (ENSURE REMOVAL OF GALVANIZING PRIOR TO WELDING).

- 7.5. BONDS TO THE BURIED GROUND RING ARE CATEGORIZED AS FOLLOWS:
- BURIED METALLIC OBJECTS:

DRIVEN GROUND RODS POWER COMPANY OR OTHER DRIVEN ELECTRODES

CONDITIES PIPES

OTHER OBJECTS WITH METALLIC CONNECTION TO THE BUILDING (POTENTIAL EARTH ELECTRODES)

- EARTH SUPPORTED METALLIC OBJECTS LOCATED WITH, OR LESS THAN 6 7.5.2. FEET FROM THE PERIMETER OF THE BURIED GROUND RING.
- TOWER LEGS OR BASE OF MONOPOLE EXOTHERMICALLY WELDED CONNECTIONS ARE RECOMMENDED TO A WELD FLANGE WELDED AT 7.5.2.1. THE FACTORY TO AVOID DESTROYING THE INTERIOR GALVANIZING DURING THE WELDING PROCESS. FOR A MONOPOLE, 2 SUCH BONDS ARE REQUIRED; FOR SELF-SUPPORT TOWER, 3 BONDS ARE REQUIRED (1 PER LEG). AND FOR GUYED TOWER, 3 BONDS ARE REQUIRED (1 PER TOWER SIDE).
- 7.5.2.2. WHERE NO WELD FLANGE IS FACTORY PROVIDED WITH THE PERMISSION OF THE PM AND EXOTHERMIC WELDED CONNECTIONS MAY BE MADE TO HOLLOW STEEL MEMBERS.
- METAL CORNER FENCE POSTS AND GATE POSTS. GATES SHALL BE 7.5.2.3. GROUNDED THRU A FLEXIBLE COPPER STRAP EXOTHERMICALLY WELDED TO THE GATE FENCE POST AND GATE.
- 7.5.2.4. OTHER METALLIC OBJECTS OF SIGNIFICANT SIZE.
- 7.5.2.5. TOWER GROUND BAR.
- EACH ICE BRIDGE LEG SHALL BE GROUNDED WITH EXOTHERMIC 7.5.2.6. WELDS AT BOTH THE LEGS AND BURIED GROUND RING.

ILLMAN NFRASTRUCTURE 152 W. 57TH ST. 27TH FLOOR NEW YORK, NY 10019





9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGL NO: 23-2337

DRAWN BY: RM CHECKED BY: C7

REVISIONS

RΕV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317 AT&T SITE NAME HOG BAY AVE & HWY 70

TILLMAN SITE NUMBER TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

> SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

GENERAL NOTES

7.5.3.1.	GROUND BARS AT THE CABLE ENTRY PORT.
7.5.3.2.	DOWN SPOUTS OR METAL DRAINS.
7.5.3.3.	ALUMINUM (OR SIMILAR) EXTERIOR WALL SIDING.
7.5.3.4.	CONDUITS, PIPES, (MULTIPLE GROUNDS REQUIRED EVERY 25 FEET WHEN RUN IS PARALLEL TO EARTH OR EXTERIOR WALLS).
7.5.3.5.	AIR EXHAUST HOODS AND PORCH ROOF.
7.5.3.6.	OUTER SHEATH OF COAXIAL ANTENNA CABLES
7.5.3.7.	METALLIC DOORS AND FRAMES
7.5.3.8.	MAIN DISCONNECT SWITCH
7.5.3.9.	AIR CONDITIONING UNITS AND ASSOCIATED DISCONNECT SWITCH.
7.5.3.10.	GENERATOR RECEPTACLE.
7.5.3.11.	OTHER METAL OF SIMILAR NATURE.

METALLIC OBJECTS MOUNTED ON THE BUILDING

EQUIPMENT GROUND TO THE A/C PANELBOARD.

COAX CABLE GROUNDING

NOTE:

7.6.

7.5.3.12. SERVICE PLUGS.

7.5.3.

7.6.1 THE OUTER CONDUCTOR OF ALL ANTENNA COAX CABLES SHALL BE GROUNDED AS FOLLOWS:

ARE NOT IN LIEU OF THE NEC GREEN WIRE

THESE CONNECTIONS TO THE EXTERNAL GROUND RING

7.6.1.1. AT THE TOP OF THE VERTICAL RUN ON THE TOWER, EACH ANTENNA CABLE SHEATH SHALL BE INDIVIDUALLY GROUNDED TO A GROUND BAR WITH A TWO HOLE CONNECTOR AND STAINLESS STEEL FASTENERS. THE CONNECTION SHALL BE COATED WITH A PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARE.

AT THE MIDDLE GROUND BAR (ON TOWERS OVER 200 7.6.1.2. FEET TALL) FOR SELF-SUPPORTING AND GUYED TOWERS. THE GROUNDING OF ANTENNA CABLES IS ACCOMPLISHED BY THE USE OF APPROPRIATE GROUNDING STRAP KITS SUPPLIED BY THE ANTENNA CABLE MANUFACTURER. THE INSTRUCTIONS SUPPLIED WITH THESE KITS MUST BE FOLLOWED FOR APPLICATION. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARF

AT THE BOTTOM OF VERTICAL RUN ON THE TOWER, AT 7.6.1.3. THE POINT OF TOWER EXIT, EACH ANTENNA CABLE SHEATH SHALL BE INDIVIDUALLY GROUNDED TO A TOWER EXIT GROUND BAR WITH A TWO HOLE CONNECTOR. THE CONNECTION SHALL BE COATED WITH A PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ATTACHED TO THE TOWER UTILIZING STAINLESS STEEL MOUNTING HARDWARE. THE BOTTOM GROUND BAR SHALL BE DIRECTLY BONDED AT ITS LOWEST POINT TO THE EXTERIOR GROUND RING AT A GROUND ROD BY

WHERE EQUIPMENT SHELTERS ARE REQUIRED: AT THE POINT OF ENTRANCE TO THE SHELTER, THIS SHALL BE A TWO HOLE CONNECTOR ATTACH TO THE GROUND BAR BELOW, OR TO THE SIDE OF THE CABLE ENTRY PORT. THIS CONNECT ION SHALL BE COATED WITH PROTECTIVE, ANTIOXIDANT MATERIAL. THE GROUND BAR SHALL BE ISOLATED FROM THE SHELTER WALL. THE GROUND BAR SHALL BE COATED SHALL BE DIRECTLY GROUNDED AT ITS LOWEST POINT TO THE EXTERIOR GROUND RING. THE PRIMARY GROUND WIRE SHALL BE #2 AWG BARE TINNED COPPER SOLID WIRE EXTENDED FROM A
PARALLEL TYPE EXOTHERMIC WELD CONNECTION AT THE EXTERIOR GROUND RING TO AN EXOTHERMIC WELD AT THE CABLE ENTRY PORT GROUND BAR. THE PRIMARY GROUND WIRE SHALL BE SUPPORTED ON THE EXTERIOR WALL WITH NON-DEGRADING FASTENER EVERY 2 FEET. UNNECESSARY BENDS SHALL BE OF GREATEST PRACTICAL RADIUS (8" MINIMUM),

ABBREVIATIONS 2C 3C 4C AFF AGL AMSL APPROX 2ND CARRIER 3RD CARRIER 4TH CARRIER
ABOVE FINISHED FLOOR
ABOVE GROUND LEVEL ABOVE MEAN SEA LEVEL APPROXIMATE
AUTOMATIC TRANSFER SWITCH
AMERICAN WIRE GAUGE ATS AWG BLDG BBU BUILDING BASE BAND UNIT CENTERLINE CLR COL CONC CND CSRF DWG FT EGB ELEC EMT ELEV CLEAR COLUMN CONCRETE CONDUIT CROSS SECTOR REDUNDANCY FEATURE DRAWING FOOT(FEET) EQUIPMENT GROUND BAR ELECTRICAL ELECTRICAL METALLIC TUBING FI EVATION EQUIP EQUIPMENT FXISTING EXTERIOR FOUNDATION FND FIF GA FACILITY INTERFACE FRAME GAUGE GALVANIZED GLOBAL POSITIONING SYSTEM GALV GPS GND GSM GLOBAL SYSTEM FOR MOBILE COMMUNICATION LONG TERM EVOLUTION LTE Max McPa Mfr MAXIMI IM MULTI-CARRIER POWER AMPLIFIER MANUFACTURER MASTER GROUND BAR MFR MGB MIN MTS N.T.S. O.C. OE/OT PPC MANUAL TRANSFER SWITCH NOT TO SCALE ON CENTER OVERHEAD ELECTRIC/TELCO PROPERTY LINE RBS RRH RGS REMOTE RADIO HEAD RIGID GALVANIZED STEEL INCH(ES) INTERIOR POUND(S) SQUARE FOOT STEEL TYPICAL LB(S), # STL TYP UNDERGROUND ELECTRIC/TELCO UNLESS NOTED OTHERWISE UE/UT UNO UMTS UNIVERSAL MOBILE TELE - COMMUNICATION VERIFY IN FIELD VIF TRANSFORMER W/ XFMR







CONSULTING GROUP, INC. 9221 LYNDON B JOHNSON FREEWAY SUITE 204, DALLAS, TX 75243 PHONE: 972-231-8893

FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

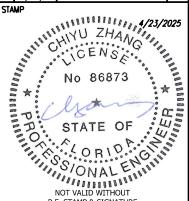
23-2337

ACGI NO: DRAWN BY: RM CHECKED BY: CZ

REVISIONS

REV	DATE	DESCRIPTION	BY
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

P.E. STAMP & SIGNATURE

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER

> TI-OPP-29300 TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA

ARCADIA FL TI-05363 SITE ADDRESS 1320 SW MARTHA ST

SHEET TITLE:

GENERAL NOTES

SHEET NUMBER:

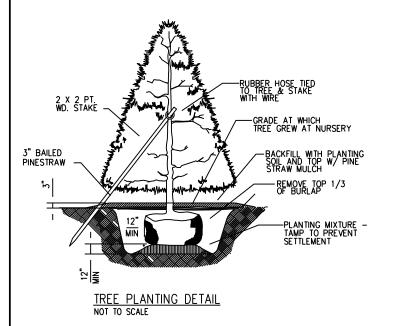
SITE SPECIFICATIONS REFER TO BOTH RAW LAND AND CO-LOCATION SITES. REFERENCE SITE PLANS FOR TYPE OF SITE AND USE APPLICABLE SPECIFICATIONS.

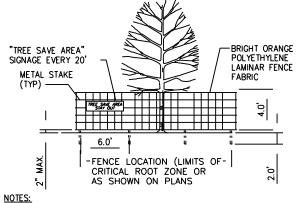
*NOTE: PM REFERS TO TILLMAN PROJECT MANAGER

LANDSCAPE NOTES

- 1. ALL PLANTS MUST BE HEALTHY, VIGOROUS MATERIAL, FREE OF PESTS AND DISEASE.
- 2. ALL PLANTS MUST BE CONTAINER-GROWN OR BALLED AND BURLAPPED AS SPECIFIED.
- 3. ALL TREES MUST BE STRAIGHT TRUNKED, FULL HEADED AND MEET ALL REQUIREMENTS SPECIFIED.
- 4. ALL PLANTS ARE SUBJECT TO THE APPROVAL OF THE ENGINEER'S REPRESENTATIVE BEFORE, DURING, AND AFTER INSTALLATION.
- ALL TREES MUST BE GUYED OR STAKED AS SHOWN.
- 6. ALL PLANTS AND PLANTING AREAS MUST BE COMPLETELY MULCHED AS SPECIFIED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING COURSE OF THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE LANDSCAPE
- 8. THE CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO: WATERING. SPRAYING, MULCHING, FERTILIZATION, ETC.) OF PLANTING AREAS UNTIL THE WORK IS ACCEPTED IN TOTAL BY THE ENGINEER'S REPRESENTATIVE
- 9. THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF ONE (1) YEAR BEGINNING AT THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE
- 10. THE ENGINEER'S REPRESENTATIVE WILL APPROVE THE STAKED LOCATION OF ALL PLANT MATERIAL PRIOR TO INSTALLATION.
- 11. AFTER BEING DUG AT THE NURSERY SOURCE, ALL TREES IN LEAF SHALL BE ACCLIMATED FOR TWO (2) WEEKS UNDER A MIST
- 12. ANY PLANT MATERIAL THAT DIES, TURNS BROWN OR DEFOLIATES (PRIOR TO TOTAL ACCEPTANCE OF THE WORK) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, SIZE AND MEETING ALL SPECIFICATIONS.
- 13. STANDARDS SET FORTH IN "AMERICAN STANDARD FOR NURSERY STOCK", LATEST EDITION, REPRESENT GUIDELINE SPECIFICATIONS ONLY AND SHALL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.

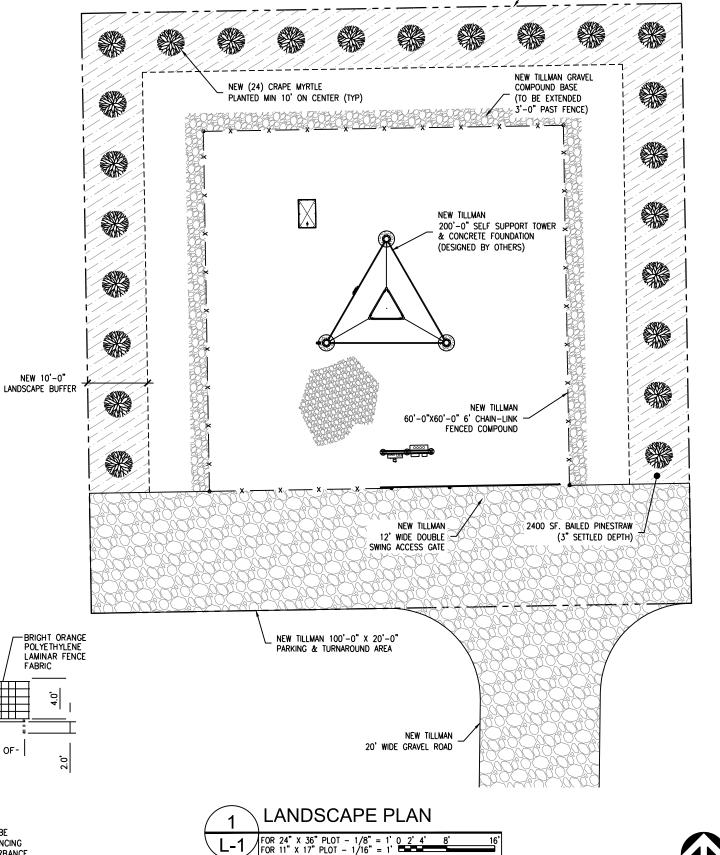
TOTAL AREA OF LANDSCAPE BUFFER: 856 SF - 0.0197 ACRES				
PLANT LIST:				
QTY.	COMMON NAME	BOTANICAL NAME	SIZE/REMARKS	
24	CRAPE MYRTLE	LAGERSTOEMIA INDICA	6' MIN. HEIGHT AT PLANTING PLANTED MIN 10'-0" O.C.	
2400 SF	PINESTRAW MULCH - 3" SE	TTLED LAYER OF CLEAN STRAW		





- 1) ALL PARKING WILL OCCUR ON EXISTING DRIVE. 2) THERE WILL BE NO BURNING OR BURIAL OF DEBRIS ON SITE.
- 3) ALL BUFFERS AND TREE SAVE AREAS ARE TO BE CLEARLY IDENTIFIED WITH FLAGGING AND/OR FENCING PRIOR TO COMMENCEMENT OF ANY LAND DISTURBANCE.

TREE PROTECTION DETAIL NOT TO SCALE



NEW TILLMAN 100'-0"X100'-0" LEASE AREA







9221 LYNDON B JOHNSON FREEWAY FAX: 866-364-8375 www.allprocgi.com
FLORIDA FIRM REGISTRATION # 27492

ACGI NO: 23-2337 DRAWN BY: RM

REVISIONS

CHECKED BY: CZ

REV	DATE	DESCRIPTION	
4	04/23/25	DRC COMMENTS & REDLINES	RM
3	03/05/25	DRC COMMENTS & REDLINES	RM
2	10/15/24	CITY COMMENTS	RM
		REV. PER CM REDLINES	RM
0	05/30/24	FINAL CD	RM

STAMP



SITE INFORMATION AT&T NUMBER 15828317

AT&T SITE NAME

HOG BAY AVE & HWY 70 TILLMAN SITE NUMBER TI-OPP-29300

TILLMAN SITE NAME

BERNARDO HERNANDEZ-VILLANUEVA ARCADIA FL TI-05363

> SITE ADDRESS 1320 SW MARTHA ST

> > SHEET TITLE:

LANDSCAPE PLAN

SHEET NUMBER:

NORTH