

1. ALL REFERENCES TO OWNER SHALL BE CONSTRUED TO MEAN BLUE SKY TOWERS III, LLC, LIBERTY MOBILE USVI INC. OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
3. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
4. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
5. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND THE TESTING AGENCY PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE CONSTRUCTION PROCEDURES.
6. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
8. ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITION OF THE LOCAL BUILDING CODE.
9. ALL PROPOSED CELLULAR EQUIPMENT AND FIXTURES SHALL BE FURNISHED BY OWNER FOR INSTALLATION BY THE CONTRACTOR, UNLESS SPECIFICALLY NOTED OTHERWISE HEREIN.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.

1. STRUCTURAL STEEL SHALL CONFORM TO THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS— ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN INCLUDING THE COMMENTARY AND THE A.I.S.C. CODE OF STANDARD PRACTICE.
2. STRUCTURAL STEEL PLATES AND SHAPES SHALL CONFORM TO ASTM A26. ALL STRUCTURAL STEEL PIPES SHALL CONFORM TO ASTM A53 GRADE B. ALL STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A500 GRADE B. ALL STRUCTURAL STEEL COMPONENTS AND FABRICATED ASSEMBLIES SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
3. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) D.1.1/D.1.1M:2015. STRUCTURAL WELDING CODE—STEEL WELD ELECTRODES SHALL BE E70XX.

1. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
2. ANY PERMITS WHICH MUST BE OBTAINED SHALL BE THE CONTRACTOR'S RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
3. ALL WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND THE ACI 318-14, "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE".
4. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER 24 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
5. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED. THE CONTRACTOR SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

1. ALL THREADED STRUCTURAL FASTENERS FOR ANTENNA SUPPORT ASSEMBLIES SHALL CONFORM TO ASTM A307 OR ASTM 36. ALL STRUCTURAL FASTENERS FOR STRUCTURAL STEEL FRAMING SHALL CONFORM TO ASTM A325. FASTENERS SHALL BE 5/8" MIN. DIA. BEARING TYPE CONNECTIONS WITH THREADS EXCLUDED FROM THE PLANE. ALL EXPOSED FASTENERS, NUTS, AND WASHERS SHALL BE GALVANIZED UNLESS OTHERWISE NOTED. ALL ANCHORS INTO CONCRETE SHALL BE STAINLESS STEEL.
2. THE CONTRACTOR SHALL FURNISH ALL CONNECTION HARDWARE REQUIRED TO SECURE THE CABLES. CONNECTION HARDWARE SHALL BE STAINLESS STEEL.
3. NORTH ARROW SHOWN ON PLANS REFERS TO TRUE NORTH. CONTRACTOR SHALL VERIFY NORTH AND NOTIFY CONSULTANT OF ANY DISCREPANCY BEFORE STARTING CONSTRUCTION.
4. PROVIDE LOCK WASHERS FOR ALL MECHANICAL CONNECTIONS FOR GROUND CONDUCTORS. USE GRADE 304 STAINLESS STEEL HARDWARE THROUGHOUT.
5. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTIONS.

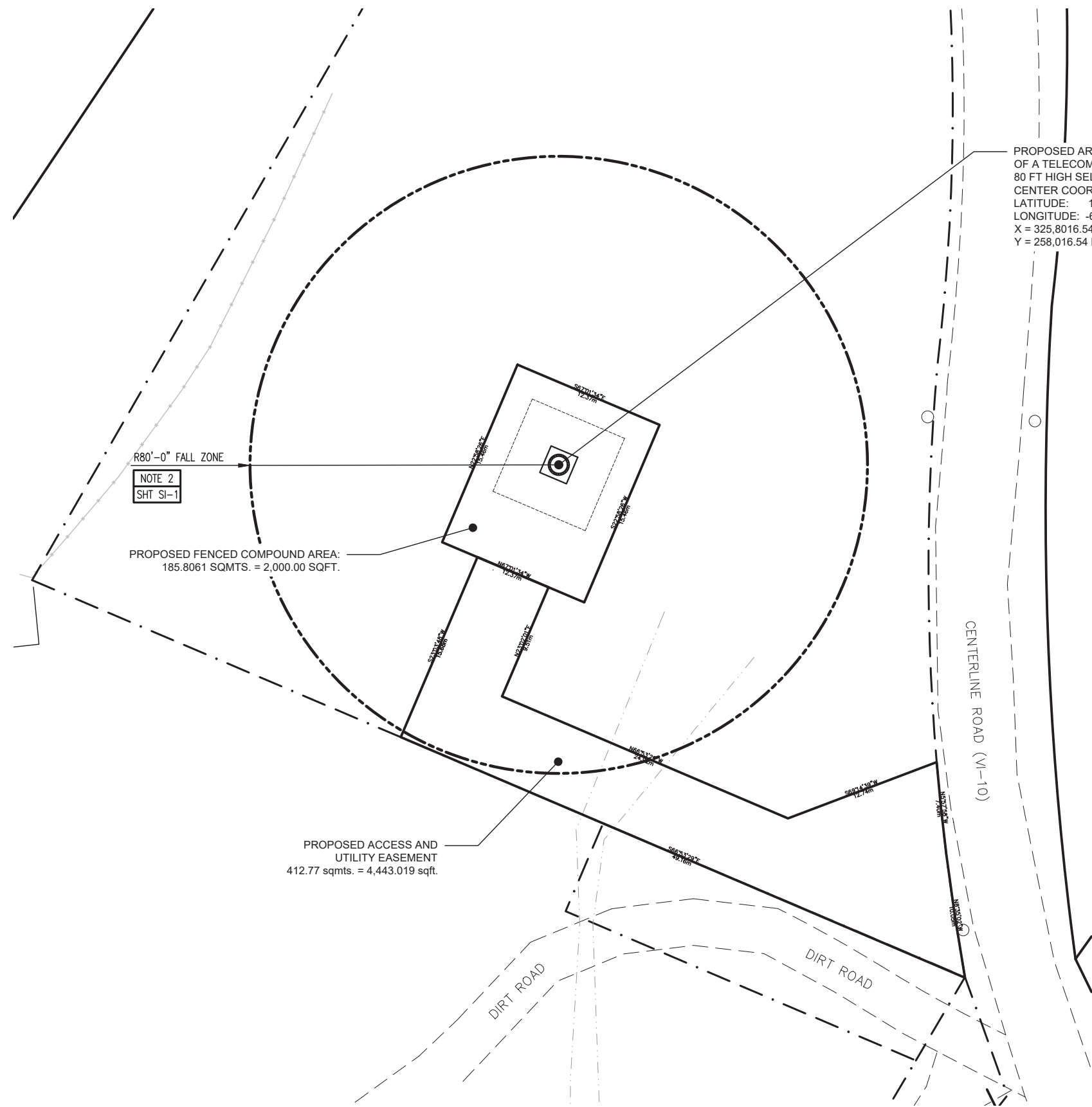
- CORAL BAY
USVI-00408
6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION

GENERAL NOTES

SHEET NUMBER

GN-1



1	1	1
C1	C2	C3

PROPOSED FENCED COMPOUND AREA:
185.8061 SQMTRS. = 2,000.00 SQFT.

PROPOSED ACCESS AND
UTILITY EASEMENT
412.77 sqmts. = 4,443.019 sqft.

CENTERLINE ROAD (VI-10)

NOTES:

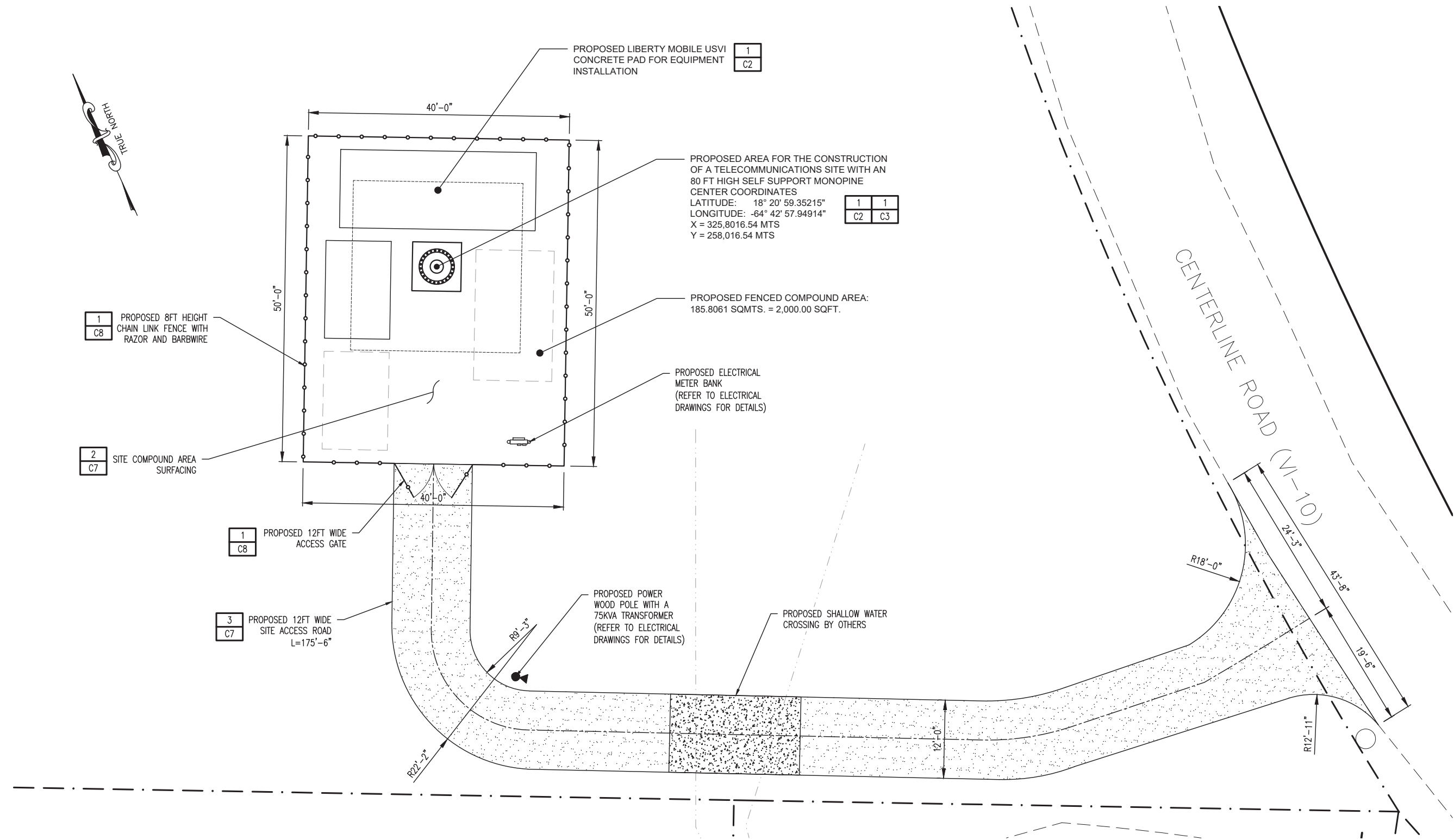
1. THESE PLANS ARE BASED ON A SITE SURVEY PLAN PREPARED BY THE GREEN
PIECE ENGINEERING + ENVIRONMENT, LLC WHICH WAS SIGNED AND SEALED BY
JEFFREY L. BATEMAN, VI PLS 1053 LS ON APRIL 13, 2023. (REV. 2)
2. REFER TO SABRE INDUSTRIES PLANS; JOB NUMBER: 24-1613-CLA-R6
DESCRIPTION: 80FT MONOPINE, SITE NAME: CORAL BAY USVI-00408,
PROVIDED BY A BLUE SKY TOWERS III, LLC REPRESENTATIVE.

SYMBOL LEGEND

----	PROPERTY LINE	-----	EXISTING ROADS
=====	EASEMENT AREA	○	EXISTING UTILITY POLE
-----	FALL ZONE RADIUS		

1	←	REPRESENTS DETAIL #	NOTE 1	←	REPRESENTS NOTE
C7	←	REPRESENTS SHEET #	SHT E7	←	REPRESENTS SHEET #





PROPOSED LIBERTY MOBILE USVI
CONCRETE PAD FOR EQUIPMENT
INSTALLATION

1
C2

PROPOSED AREA FOR THE CONSTRUCTION
OF A TELECOMMUNICATIONS SITE WITH AN
80 FT HIGH SELF SUPPORT MONOPINE
CENTER COORDINATES
LATITUDE: 18° 20' 59.35215"
LONGITUDE: -64° 42' 57.94914"
X = 325,8016.54 MTS
Y = 258,016.54 MTS

1 1
C2 C3

PROPOSED FENCED COMPOUND AREA:
185.8061 SQMTS. = 2,000.00 SQFT.

PROPOSED ELECTRICAL
METER BANK
(REFER TO ELECTRICAL
DRAWINGS FOR DETAILS)

1
C8
PROPOSED 8FT HEIGHT
CHAIN LINK FENCE WITH
RAZOR AND BARBWIRE

2
C7
SITE COMPOUND AREA
SURFACING

1
C8
PROPOSED 12FT WIDE
ACCESS GATE

3
C7
PROPOSED 12FT WIDE
SITE ACCESS ROAD
L=175'-6"

PROPOSED POWER
WOOD POLE WITH A
75KVA TRANSFORMER
(REFER TO ELECTRICAL
DRAWINGS FOR DETAILS)

PROPOSED SHALLOW WATER
CROSSING BY OTHERS

SYMBOL LEGEND

—●— PROPOSED FENCE
- - - - - PROPERTY LINE
- - - - - UNDERGROUND FOUNDATION
- - - - - EXISTING ROADS
— — — CENTER LINE
○ EXISTING UTILITY POLE

1
C7
REPRESENTS DETAIL #
REPRESENTS SHEET#

NOTE 1
SHT E7
REPRESENTS NOTE
REPRESENTS SHEET#

1
C1
PROPOSED SITE PLAN
SCALE: 1/16"=1'-0"



TOWER TECH
ENGINEERING PSC

TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

DRAWN BY:
A.C.R.

CHECKED BY:
E.M.U.

CORAL BAY
USVI-00408

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION
PROPOSED
SITE PLAN

SHEET NUMBER
C1



DRAWN BY:	CHECKED BY:
A.C.R.	E.M.U.

<div>CORAL BAY USVI-00408</div> <div>6-4-1 ESTATE CAROLINA NO.1 CORAL BAY QUARTER CORAL BAY, ST JOHN, VI 00830</div>	
<div>SHEET DESCRIPTION</div> <div>PROPOSED EQUIPMENT AREA LAYOUT</div>	
<div>SHEET NUMBER</div> <div>C3</div>	



SCALE: 3/32"=1'-0"

- PROPOSED EQUIPMENT & ORIENTATION NOTES:

INSTALL ONE (1) VALMONT (SITEPRO1) ANTENNA MOUNT FOR MONOPOLE
PART NUMBER: RMVD8-2120-18 - 8FT 3-SIDED T-ARM MOUNT WITH 18" STANDOFF
WITH 96" VERTICAL PIPES

ALPHA SECTOR:

- ON POSITION #1- INSTALL A NEW KATHREIN 800442008 ANTENNA, ONE (1) NEW ERICSSON RRUS-4449 B5/B12 (700/850 BAND) AND ONE (1) NEW ERICSSON RRUS-4426 B66 (AWS BAND).

- ON POSITION #2- NOT IN USE
ON POSITION #3- INSTALL A NEW KATHREIN 840590003 ANTENNA, ONE (1) NEW ERICSSON
RRUS-4478 B14 (700 BAND), AND ONE (1) NEW ERICSSON
RRUS-4460 B25/B66 (PCS/AWS BAND).

- ON POSITION #4- NOT IN USE

BETA SECTOR:

- ON POSITION #1- INSTALL A NEW KATHREIN 800442008 ANTENNA, ONE (1) NEW ERICSSON RRUS-4449 B5/B12 (700/850 BAND) AND ONE (1) NEW ERICSSON RRUS-4426 B66 (AWS BAND).

- ON POSITION #2- NOT IN USE
ON POSITION #3- INSTALL A NEW KATHREIN 840590003 ANTENNA, ONE (1) NEW ERICSSON
RRUS-4478 B14 (700 BAND), AND ONE (1) NEW ERICSSON
RRUS-4460 B25/B66 (PCS/AWS BAND).

- ON POSITION #4- NOT IN USE

GAMMA SECTOR:

- ON POSITION #1- INSTALL A NEW KATHREIN 800442008 ANTENNA, ONE (1) NEW ERICSSON RRUS-4449 B5/B12 (700/850 BAND) AND ONE (1) NEW ERICSSON RRUS-4426 B66 (AWS BAND).

- ON POSITION #2- NOT IN USE
ON POSITION #3- INSTALL A NEW KATHREIN 840590003 ANTENNA, ONE (1) NEW ERICSSON
RRUS-4478 B14 (700 BAND), AND ONE (1) NEW ERICSSON
RRUS-4460 B25/B66 (PCS/AWS BAND).

- ON POSITION #4- NOT IN USE

AT MONOPINE, INSTALL TWO (2) SQUID/SURGE SUPPRESSOR RAYCAP_DC9-48-60-24-8C-EV,
ONE (1) ON ALPHA AND GAMMA SECTOR. INSTALL TWO (2) NEW FIBER TRUNKS,
ONE (1) ON ALPHA AND GAMMA SECTOR AND SIX (6) POWER TRUNKS, THREE (3) ON ALPHA AND GAMMA SECTOR.
SEE RFDS, (LCPR CORAL BAY 2023 NEW SITE.LTE.115988336.255812.FINAL.FOR.SAQ.V2) FOR MORE INFORMATION.



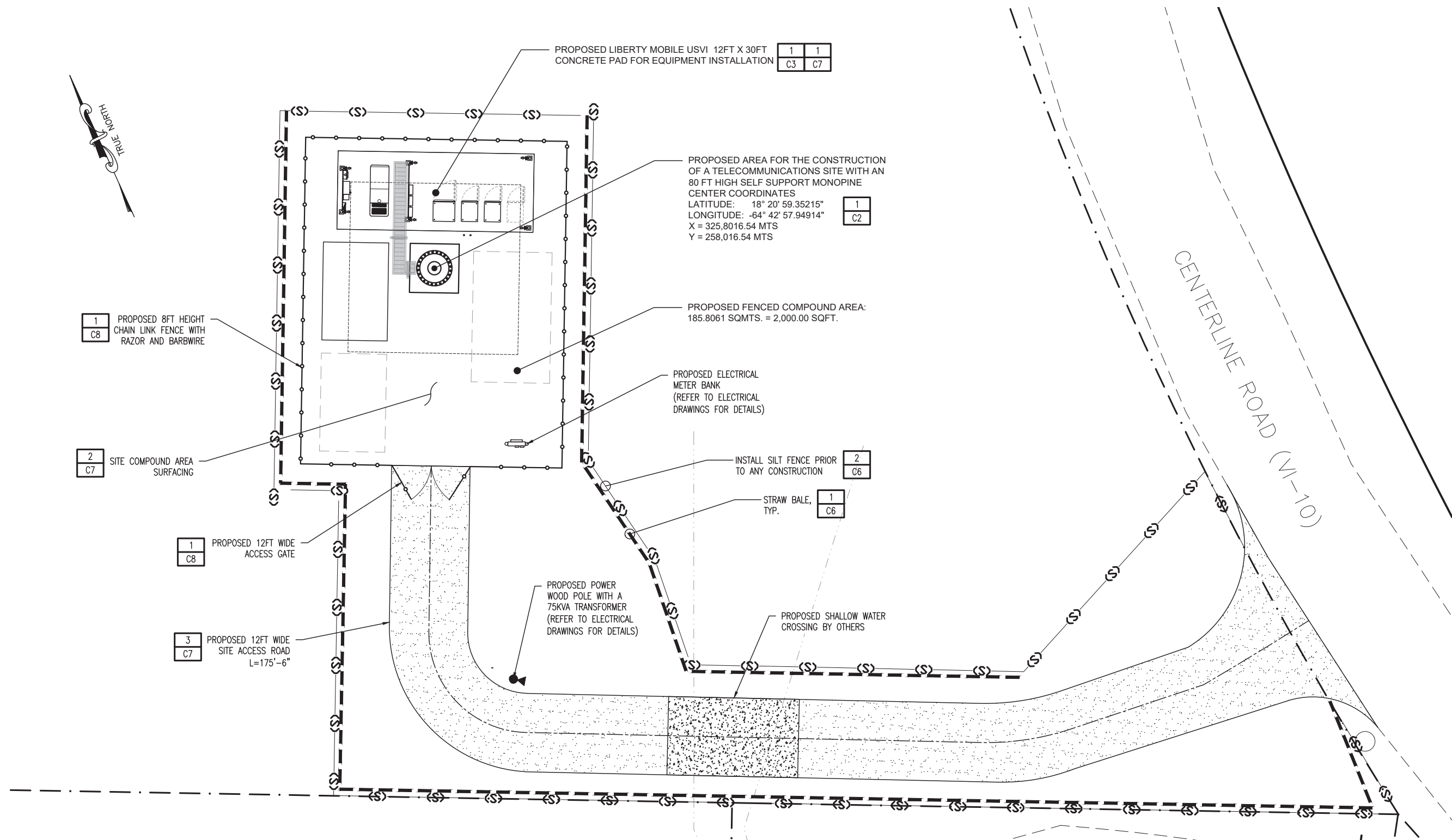
SCALE: 3/8"=1'-0'

PROPOSED INSTALLATION LAYOUT						
ID	QTY. PER POSITION	DESCRIPTION	POSITION	SECTOR	QTY. PER SECTOR	TOTAL QTY.
A	1	KATHREIN 800442008 ANTENNA	1	ALPHA/BETA/GAMMA	1	3
B	1	KATHREIN 840590003 ANTENNA	3	ALPHA/BETA/GAMMA	1	3
C	1	ERICSSON RRUS-4449 B5/B12 (700/850 BAND)	1	ALPHA/BETA/GAMMA	1	3
D	1	ERICSSON RRUS-4426 B66 (AWS BAND)	1	ALPHA/BETA/GAMMA	1	3
E	1	ERICSSON RRUS-4460 B25/B66 (PCS/WCS BAND)	3	ALPHA/BETA/GAMMA	1	3
F	1	ERICSSON RRUS-4478 B14 (700 BAND)	3	ALPHA/BETA/GAMMA	1	3
G	1	SQUID/SURGE SUPPRESSOR RAYCAP DC9-48-60-24-8C-EV	---	ALPHA/GAMMA	1	2

EMU

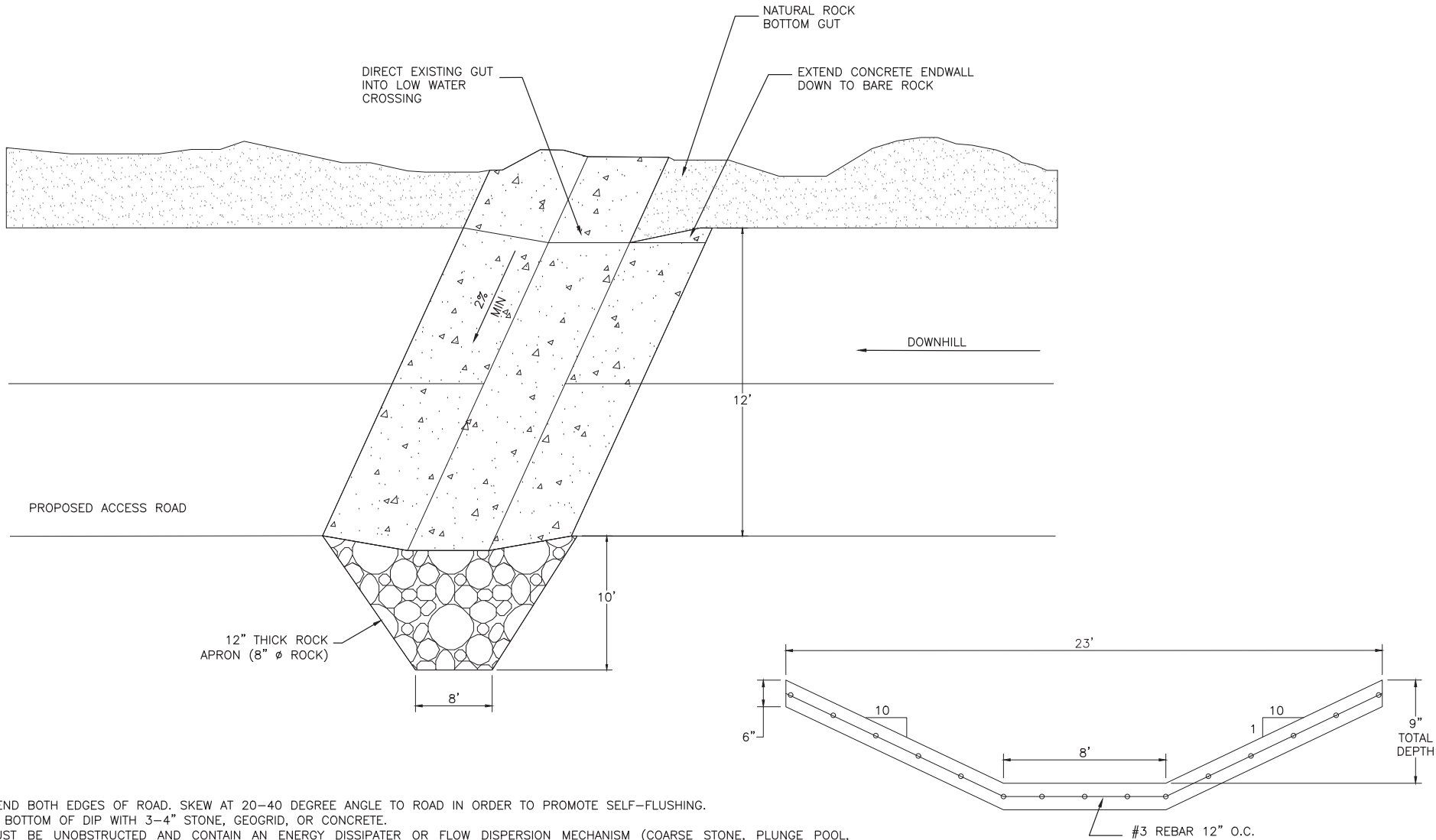
SHEET NUMBER

C4



EROSION & SEDIMENTATION CONTROL PLAN

A:\340-000\340-001-000\Draw\0200\0101\340345.0200-0101-Low Water Crossing.dwg | LS:5/2/2024 - ggreenall - LP: 5/2/2024 12:19 PM



DESIGN:

- FULLY EXTEND BOTH EDGES OF ROAD. SKEW AT 20-40 DEGREE ANGLE TO ROAD IN ORDER TO PROMOTE SELF-FLUSHING.
- REINFORCE BOTTOM OF DIP WITH 3-4" STONE, GEOGRID, OR CONCRETE.
- OUTLET MUST BE UNOBSTRUCTED AND CONTAIN AN ENERGY DISSIPATER OR FLOW DISPERSION MECHANISM (COARSE STONE, PLUNGE POOL, LEVEL SPREADER, ETC.)
- ELEVATION DROP TOWARDS OUTLET END OF 2-3%

MAINTENANCE:

- ENSURE INTERFACE BETWEEN CONCRETE LIPS AND ROAD SURFACE ARE MAINTAINED.
- REMOVE ANY VEGETATION AT OUTLET THAT MAY BLOCK DISCHARGE.
- REMOVE ACCUMULATED SEDIMENT WITHIN THE DIP AND IN THE ENERGY DISSIPATER/OUTLET.

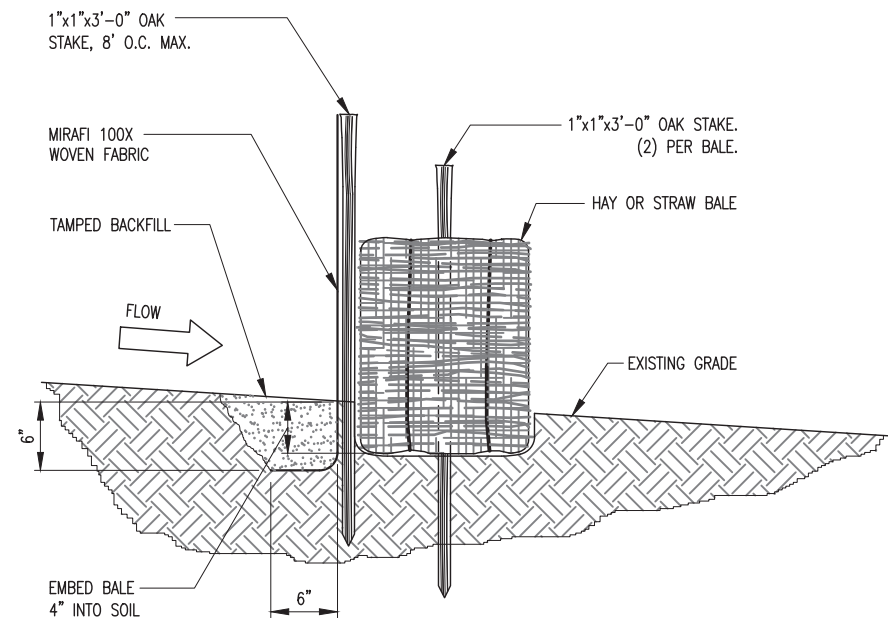
DETAIL 1
LOW WATER CROSSING
NOT TO SCALE



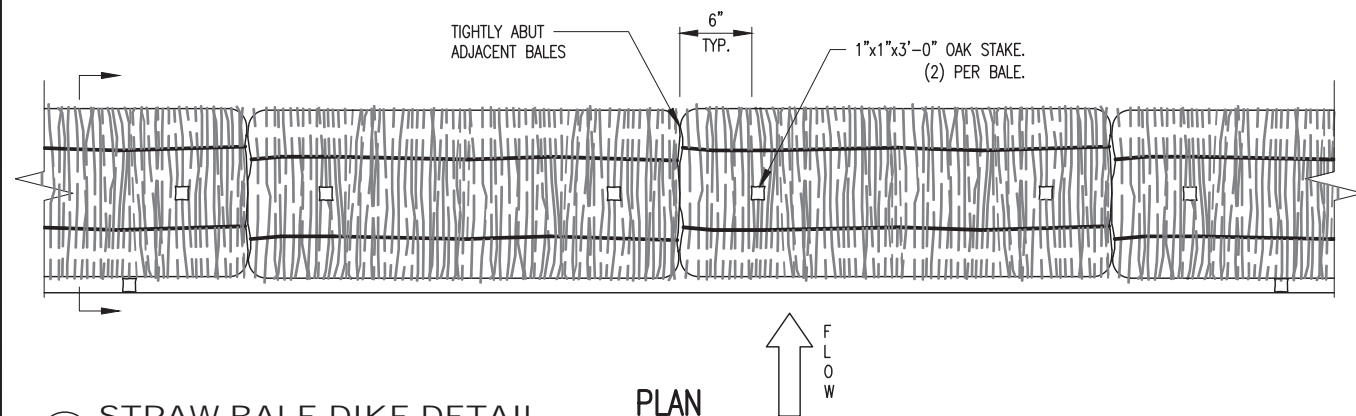
LOW WATER
CROSSING DETAIL

CORAL BAY USVI-00408
6-4-1 ESTATE CAROLINA
NO. 1 CORAL BAY QUARTER
CORAL BAY, ST. JOHN VI 00830

Designed By: KLV
Drawn By: GJG
Checked By: CJR
Scale: N.T.S.
Date: MAY 2024
Revised:
1
2
3
4
5
Project Number: 342-345.0200

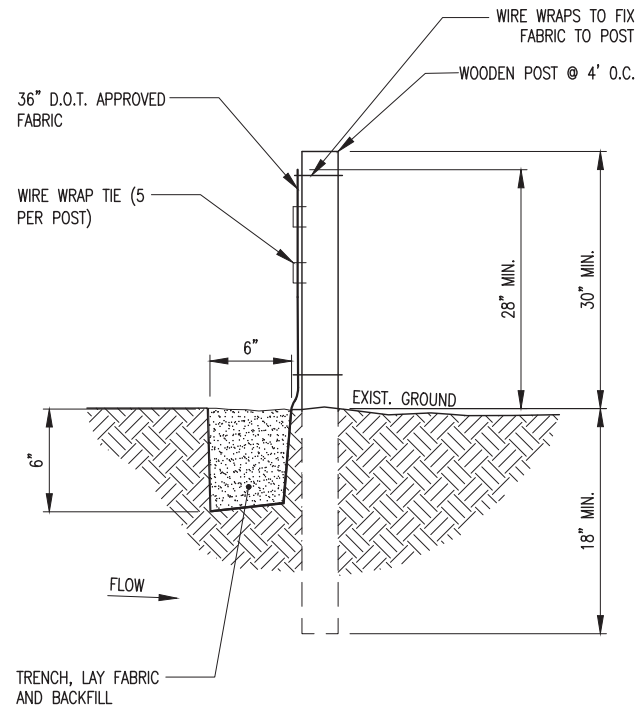


SECTION



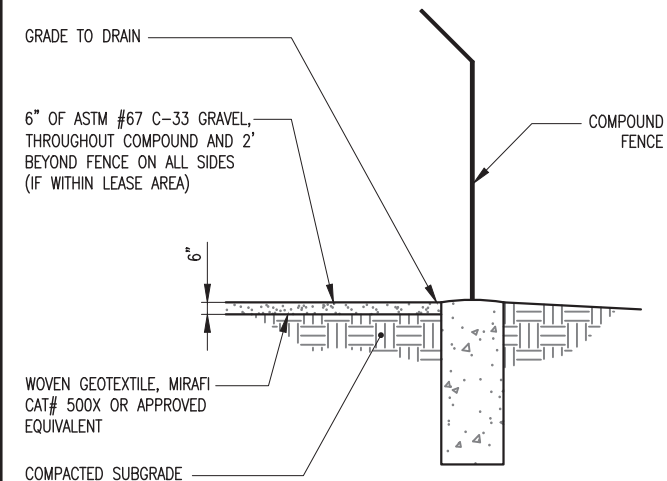
PLAN

1
C6
STRAW BALE DIKE DETAIL
NOT TO SCALE



2
C6
SILT FENCE DETAIL (IF NECESSARY)
NOT TO SCALE

1. THE FILTER FABRIC USED SHALL BE TYPE I OR II AND SHALL COMPLY W/ ALL NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION (AHJ).
2. SILT FENCE HEIGHT SHALL BE A MINIMUM OF 2.5 FEET ABOVE GROUND HEIGHT.
3. CONSTRUCT SILT FENCE OF A CONTINUOUS ROLL. CUT THE LENGTH OF THE BARRIER TO AVOID JOINTS. FABRIC TO BE FASTENED SECURELY TO FENCE POSTS WITH 1 INCH STAPLES OR TIE WIRES.
4. SUPPORT FABRIC WITH WOVEN WIRE MESH (TOP AND BOTTOM WIRES SHALL BE 10 GA., OTHER WIRES SHALL BE AT LEAST 12.5 GA.). OPENING SHALL BE 6" MAX. SPACING. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO POSTS WITH 1" STAPLES, NAILS OR TIE WIRES.
5. POST FOR SILT FENCE SHALL BE STEEL.
6. FENCE POST SPACING SHALL NOT EXCEED 4 FEET O.C.
7. EXCAVATE A TRENCH APPROXIMATELY 6 INCHES WIDE AND 6 INCHES DEEP ALONG THE PROPOSED LINE OF POSTS AND UP SLOPE FROM THE BARRIER. BACK FILL THE TRENCH WITH #57 STONE PLACED OVER THE FILTER FABRIC. DO NOT ATTACH FILTER FABRIC TO EXISTING FENCES, TREES, ETC.
8. REMOVE FENCING FOLLOWING STABILIZATION OF SLOPES AND ALL DISTURBED AREAS.



3
C6
GRAVEL COMPOUND DETAIL
NOT TO SCALE



TOWER TECH
ENGINEERING PSC

TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

DRAWN BY:
A.C.R.

CHECKED BY:
E.M.U.

CORAL BAY
USVI-00408

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION

DETAILS

SHEET NUMBER

C6



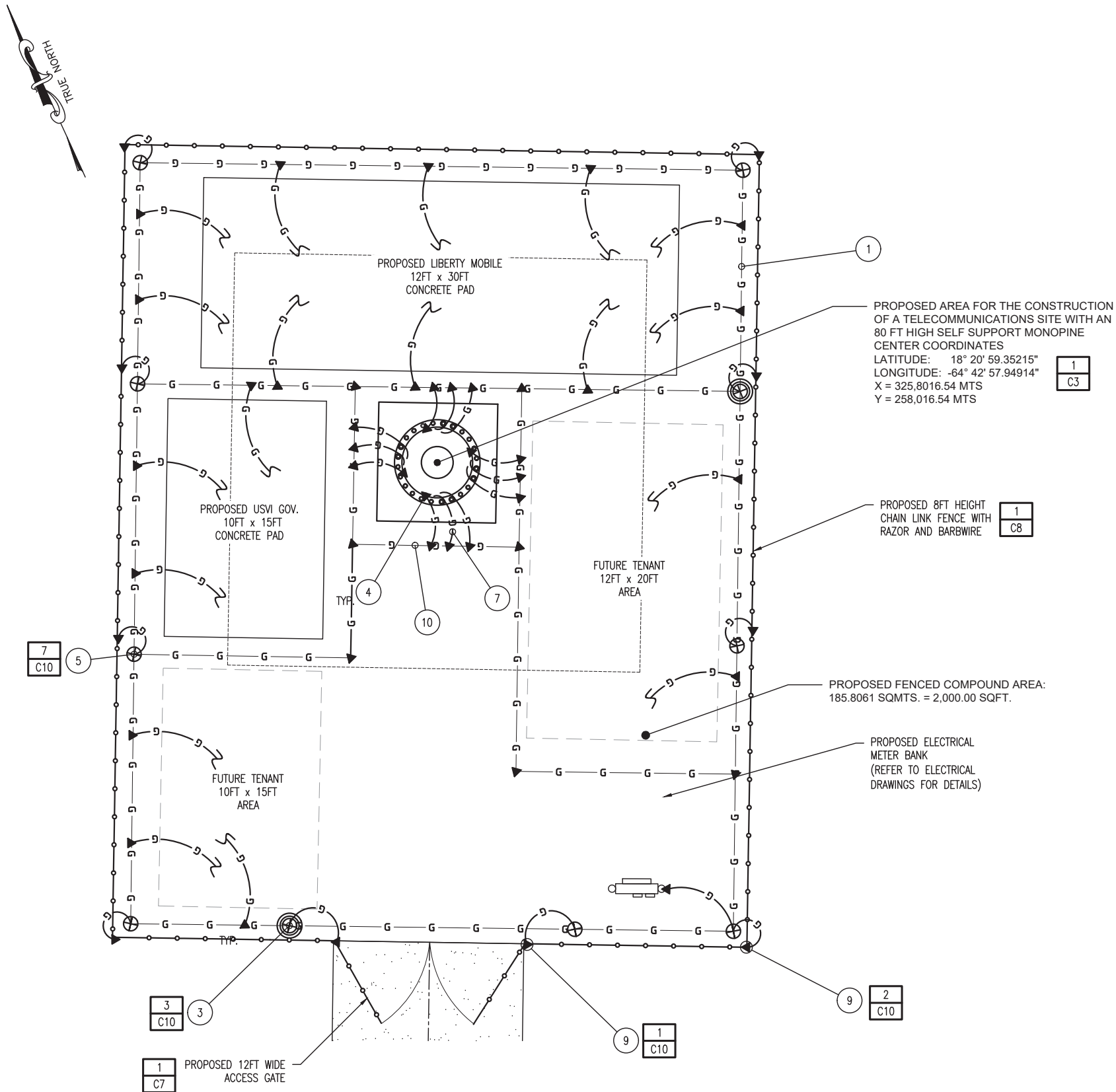
NOTE:
 -USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.
 -AGGREGATE IS BASED ON STANDARD AASHTO.
 -2" CROWN IN CENTER OF ACCESS, UNLESS IN CURVES OR AREAS FOR PROPER WATER RUNOFF AS NEEDED, THEN ACCESS SHOULD BE SLOPED TO INSIDE OF TURN / CURVE





- 2 STYMIE LOCK DETAIL
C8 NOT TO SCALE





GROUNDING PLAN
SCALE: 1/8"=1'-0"

- A. ALL GROUNDING CABLES IN CONCRETE OR THROUGH WALL SHALL BE IN 3/4" PVC CONDUIT. NO METALLIC CONDUIT SHALL BE USED FOR GROUNDING CONDUCTOR SLEEVES AND WITHIN THE ENTIRE FENCED COMPOUND.
- B. GROUND ALL EXPOSED METALLIC OBJECTS ON PROPOSED UTILITY RACK USING A TWO-HOLE NEMA DRILLED CONNECTOR SUCH AS THOMAS AND BETTS 32207 OR APPROVED EQUAL.
- C. THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR WHEN THE GROUND RING IS INSTALLED SO THAT THE REPRESENTATIVE CAN INSPECT GROUND RING BEFORE IT IS BURIED.
- D. ALL EXTERIOR GROUNDING CONDUCTORS INCLUDING GROUND RING SHALL BE 2 AWG SOLID BARE TINNED COPPER. MAKE ALL GROUND CONNECTIONS AS SHORT AND DIRECT AS POSSIBLE AND AVOID SHARP BENDS. THE RADIUS OF ANY BEND SHALL NOT BE LESS THAN 8" AND THE INCLUSIVE ANGLE OF ANY BEND SHALL NOT EXCEED 90°. GROUNDING CONDUCTORS SHALL BE ROUTED DOWNWARD TOWARD THE BURIED GROUND RING.
- E. ALL BELOW GROUND EXTERNAL CONNECTIONS SHALL BE EXOTHERMICALLY WELDED. ALL EXOTHERMIC WELDS TO BURIED GROUND RING SHALL BE THE PARALLEL-TYPE EXCEPT FOR THE GROUND RODS WHICH ARE TEE-TYPE EXOTHERMIC WELDS. REPAIR ALL GALVANIZED SURFACES THAT HAVE BEEN DAMAGED BY EXOTHERMIC WELDING. USE GALVANIZED SPRAY SUCH AS HOLUB LECTROSOL #15-501.
- F. WHERE MECHANICAL CONNECTORS (TWO-HOLE OR CLAMP) ARE USED, APPLY A LIBERAL PROTECTIVE COATING OF A CONDUCTIVE ANTI-OXIDE COMPOUND ON ALL CONNECTORS (NO-OX-ID "A"). PROVIDE LOCK WASHERS ON ALL MECHANICAL CONNECTORS. USE STAINLESS STEEL HARDWARE THROUGHOUT. THOROUGHLY REMOVE ALL PAINT AND CLEAN ALL DIRT FROM SURFACES REQUIRING GROUND CONNECTORS. REPAINT TO MATCH EXISTING AFTER CONNECTION IS MADE TO MAINTAIN CORROSION RESISTANCE. ALL GROUND CONNECTIONS SHALL BE APPROVED FOR THE TYPES OF METALS BEING ATTACHED TO.
- G. THE SUBCONTRACTOR SHALL COORDINATE AS REQUIRED TO HAVE A UTILITY COMPANY REPRESENTATIVE AT THE SITE TO DISCONNECT THE UTILITY NEUTRAL FROM GROUNDING SYSTEM DURING FINAL INSPECTION SO THAT REQUIRED TESTING ON THE GROUND SYSTEM CAN BE PERFORMED. THE SUBCONTRACTOR SHALL PROVIDE NOTICE TO THE CONTRACTOR (TWO) DAYS PRIOR TO FINAL TESTING. IF THE SUBCONTRACTOR FAILS TO MAKE UTILITY COMPANY REPRESENTATIVE AVAILABLE DURING THE FINAL TESTING, THE SUBCONTRACTOR SHALL PAY THE COST FOR AN INDEPENDENT GROUNDING CONSULTANT TO PERFORM THE GROUND RESISTANCE TEST. GROUNDING CONSULTANT SHALL BE SELECTED BY THE CONTRACTOR. IF THE UTILITY COMPANY REPRESENTATIVE FAILS TO APPEAR DUE TO NO FAULT OF THE SUBCONTRACTOR, NO PENALTY SHALL APPLY.
- H. A RESISTANCE TO GROUND OF (5) OHMS OR LESS IS REQUIRED FOR ALL SITES. THE SUBCONTRACTOR SHOULD RETAIN HIS OWN TESTER AT HIS OWN EXPENSE. IN ADDITION, A THIRD PARTY SHOULD BE HIRED TO OBTAIN MEGGER AND SWEEP RESULTS ON ALL SITES INCLUSIVE OF WHAT RESULTS THE SUBCONTRACTOR SUBMITS TO ENSURE PROPER QUALITY CONTROL ON ALL SITES. SCHEDULE FINAL MEGGER TESTING PROCEDURES. IF THE FINAL GROUNDING RESISTANCE MEASUREMENT EXCEEDS 5 (FIVE) OHMS, THE SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR.
- I. ALL MOUNTING HARDWARE SHALL BE STAINLESS STEEL.
- J. THE GROUND WIRES SHALL BE STRAIGHT FOR MINIMUM INDUCTANCE AND VOLTAGE DROP SINCE CABLE BENDS INCREASE INDUCTANCE. THE MINIMUM REQUIRED BENDING RADIUS IS 8 INCHES WHEN BENDS ARE UNAVOIDABLE. ALL METAL WORK WITHIN 10 FEET OF THE GROUND RING SHALL BE DIRECTLY BONDED TO THIS GROUND SYSTEM WITHOUT USING SERIES OR DAISY CHAIN CONNECTION ARRANGEMENTS.
- K. PAINT, ENAMEL, LACQUER AND OTHER ELECTRICALLY NON-CONDUCTIVE COATINGS SHALL BE REMOVED FROM THREADS AND SURFACE AREAS WHERE CONNECTIONS ARE MADE TO ENSURE GOOD ELECTRICAL CONTINUITY.
- L. CONNECTIONS BETWEEN DISSIMILAR METALS SHALL NOT BE MADE UNLESS THE CONDUCTORS ARE SEPARATED BY A SUITABLE MATERIAL THAT IS A PART OF THE ATTACHMENT DEVICE. ONLY ATTACHMENT DEVICES LISTED AND APPROVED FOR USE WITH THE SPECIFIC DISSIMILAR METALS MAY BE USED FOR THIS PURPOSE.
- M. ALL BELOW GRADE GROUND SYSTEM CONDUCTORS SHALL BE A MINIMUM DEPTH OF 30".
- N. NO-OX-ID "A" TO BE ADDED UNDER ALL GROUND LUG CONNECTIONS.

1. PROVIDE A #2 AWG SOLID BARE TINNED COPPER GROUND RING AROUND THE CONCRETE PAD. ALL EXTERIOR GROUNDING CONDUCTORS SHALL BE BURIED A MINIMUM OF 30" BELOW GRADE (OR 6" BELOW FROST LINE, WHICHEVER IS GREATER). THE GROUND RING SHALL BE INSTALLED 2'-0" AWAY FROM CONCRETE PAD (MINIMUM UNLESS SHOWN OTHERWISE ON DRAWINGS). ALL BONDS TO THE BURIED GROUND RING SHALL BE WITH EXOTHERMIC WELDS.
2. BOND EACH WAVEGUIDE POST TO THE BURIED GROUND RING. EXOTHERMICALLY WELD A #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO THE WAVEGUIDE POST AT 12" ABOVE GRADE AND CONNECT TO THE BURIED GROUND RING. PROVIDE CONDUCTOR LENGTH AS REQUIRED TO MAKE CONNECTION.
3. PROVIDE INSPECTION SLEEVE WHERE SHOWN FOR ALL PRIMARY CONNECTIONS TO BURIED GROUND RING. SEE GROUND ROD INSPECTION SLEEVE DETAIL, FOR TYPICAL GROUND RING INSPECTION SLEEVE. NOTE: INSPECTION SLEEVE CAN BE USED AS A TEST WELL FOR GROUND WATER LEVEL INSPECTION AND GROUND RESISTANCE TESTING.
4. A BGR GREEN GROUND SHALL BE INSTALLED THAT ENCIRCLES THE TOWER FOUNDATION. THE BGR WILL BE CONSTRUCTED IN THE SAME MANNER AS THE BTS EQUIPMENT BGR EXCEPT THAT FOUR GROUND RODS WILL BE INSTALLED 90 DEGREES APART. THE TOWER AND EQUIPMENT BGRS WILL BE CONNECTED USING TWO BURIED RUNS OF NO. 2 AWG BARE, SOLID, ANNEALED, TINNED COPPER WIRE. THESE CONNECTIONS WILL FOLLOW THE SAME PATH AS THE COAX BRIDGE IF POSSIBLE. EXOTHERMICALLY WELD FOUR NO. 2 AWG BARE TINNED COPPER WIRES LOCATED AT 90 DEGREE POINTS AROUND THE BASE PLATE OR WELD TABS OF A TOWER. DO NOT EXOTHERMICALLY WELD DIRECTLY TO THE TOWERS SHELL. THE OTHER END OF EACH NO. 2 AWG WIRE SHALL BE EXOTHERMICALLY WELDED TO A GROUND ROD OF THE BGR.
5. INSTALL 5/8"x10'-0" LONG COPPERCLAD STEEL GROUNDING RODS. SPACING BETWEEN RODS NOT TO EXCEED 10'-0" (NON-LINEAR). TYPICAL FOR ALL GROUND RODS SHOWN, UNLESS NOTED OTHERWISE. GROUND ROD MAY BE INSTALLED WITH A MAXIMUM VARIATION OF 30° FROM VERTICAL IF ROCK IS ENCOUNTERED. SUBCONTRACTOR SHALL BE PREPARED TO CORE DRILL TO INSTALL GROUND RODS AND BACKFILL WITH GROUND ENHANCEMENT MATERIAL.
6. BOND ALL EXTERIOR METALLIC CONDUITS, PIPES AND CYLINDRICAL OBJECTS WITH A PENN-UNION GT SERIES CLAMP, BLACKBURN GUV SERIES CLAMP OR A BURNDY GAR 3900BU SERIES CLAMP ONLY. NO SUBSTITUTES ARE ACCEPTABLE.
7. BENDED TO METAL OF THE GROUND RING.
8. EXOTHERMICALLY WELD FOUR NO. 2 AWG BARE TINNED COPPER WIRES LOCATED AT 90 DEGREE POINTS AROUND THE BASE PLATE OR WELD TABS OF THE TOWER. DO NOT EXOTHERMICALLY WELD DIRECTLY TO THE TOWERS SHELL. THE OTHER END OF EACH NO. 2 AWG WIRE SHALL BE EXOTHERMICALLY WELDED TO A GROUND ROD OF THE BGR.
9. EXOTHERMICALLY WELD #2 AWG SOLID BARE TINNED COPPER GROUND CONDUCTOR BETWEEN TOWER GROUND RING AND EACH CORNER FENCE POST AND GATE POST.
10. GROUND RING AROUND TOWER SHALL BE #2/0 SOLID BARE TINNED COPPER AND SHALL BE 24" MIN. AWAY FROM THE TOWER FOUNDATION.

SYMBOL LEGEND

- ⊗ GROUND INSPECTION WELL
- ⊗ GROUND ROD
- MECHANICAL CONNECTION
- ▼ EXOTHERMIC WELD
- PROPOSED FENCE
- G— GROUNDING (N.I.C.)
- NOT IN CONTRACT

1 — REPRESENTS DETAIL #

C7 — REPRESENTS SHEET #

NOTE 1 — REPRESENTS NOTE

SHT E7 — REPRESENTS SHEET #



TOWER TECH
ENGINEERING PSC

TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

DRAWN BY:

A.C.R.

CHECKED BY:

E.M.U.

CORAL BAY
USVI-00408

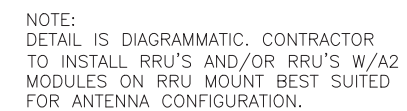
6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION

GROUNDING PLAN

SHEET NUMBER

C9



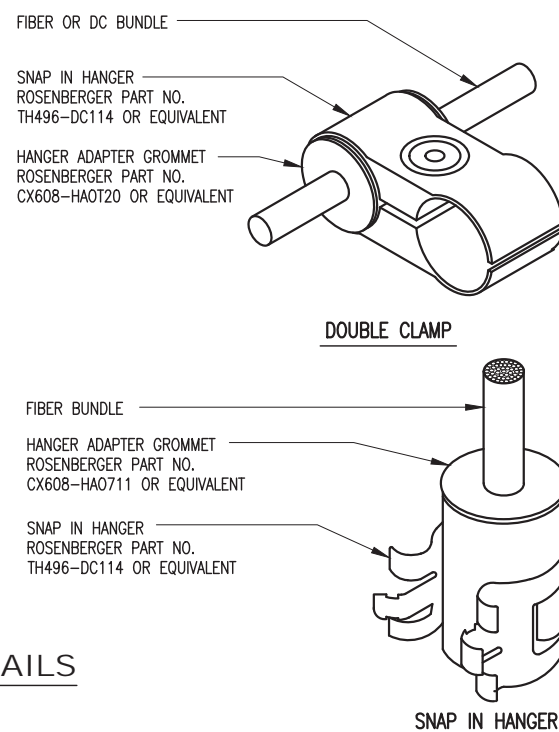
NOTE:
DETAIL IS DIAGRAMMATIC. CONTRACTOR
TO INSTALL RRU'S AND/OR RRU'S W/A2
MODULES ON RRU MOUNT BEST SUITED
FOR ANTENNA CONFIGURATION.

6 RRU MOUNTING DETAIL
S-1 SCALE: N.T.S.

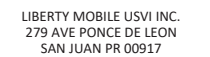
NOTES:

1. REFER TO JSA DOCUMENTS FOR EXACT CABLE NUMBER AND MANUFACTURER SPECIFICATIONS FOR PROPER GROMMETS AND HANGER TO SUPPORT THE FIBER AND DC CABLE BUNDLES.
2. REFER TO STRUCTURAL ANALYSIS FOR EXACT CABLE ROUTING AND MOUNTING CONFIGURATION.

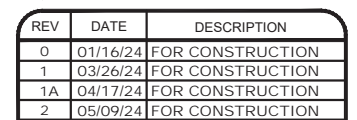
4 HANGER ADAPTER GROMMET DETAILS
S-1 SCALE: N.T.S.



TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



DRAWN BY:	CHECKED BY:
AGB	EMH

CORAL BAY
USVI-00408

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

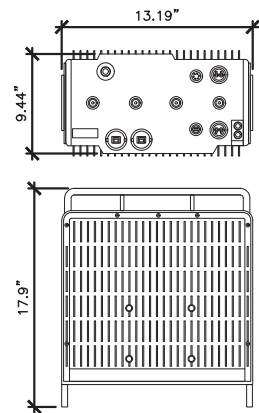
SHEET DESCRIPTION

DETAILS

SHEET NUMBER

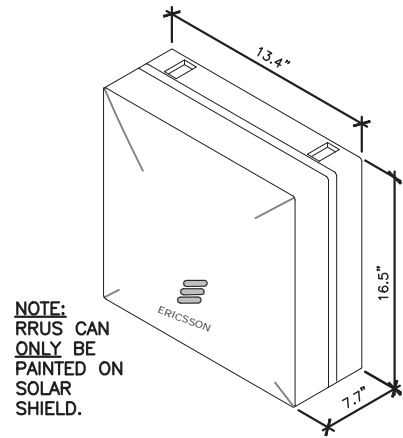
S-1

ERICSSON RRU 4449 B5/B12
-DIMENSIONS (H x W x D):
17.9" x 13.19" x 9.44" (INCLUDES SUNSHIELD)
-WEIGHT: 71 LBS
-FREQUENCY: TX = 700 MHz
TX = 850 MHz



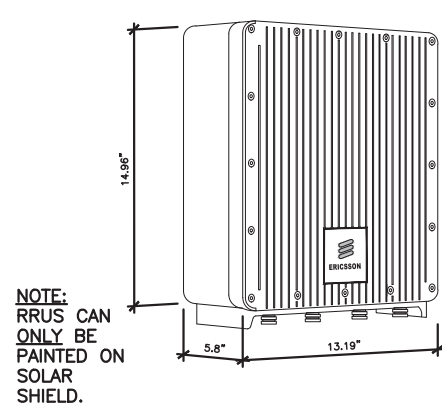
1 RRUS-4449 DETAIL
S-2 SCALE: N.T.S.

ERICSSON B14 4478
-DIMENSIONS (H x W x D):
18.1" x 13.4" x 8.26" (INCLUDES SUNSHIELD)
-WEIGHT: 59.9 LBS
-CLIMATE: -40°C TO +55°C
(SELF CONVECTION SILENT, NO FANS, IP55)
-POWER CONSUMPTION: 80 WATTS (TYP.)

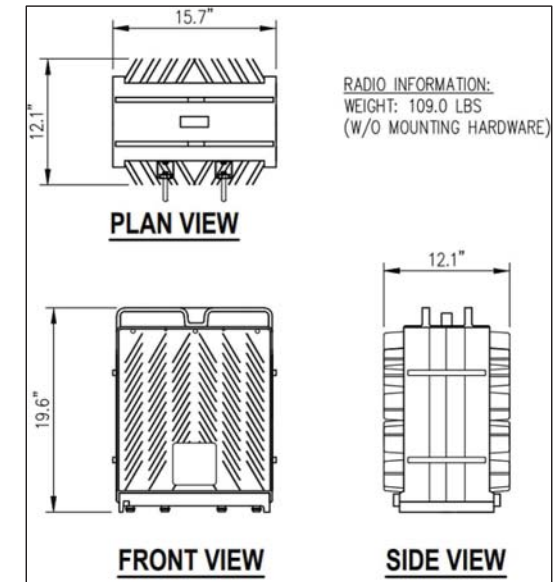


2 RRUS-4478 B14 DETAIL
S-2 SCALE: N.T.S.

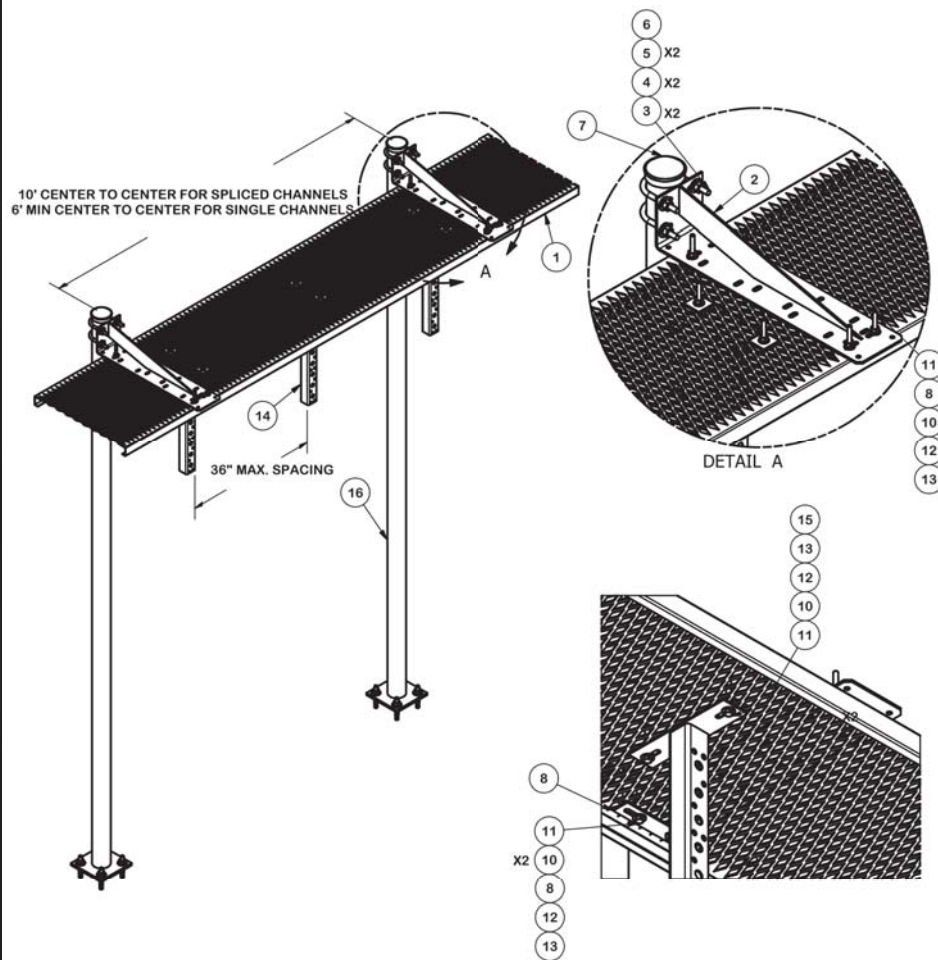
ERICSSON 4426 B66
-DIMENSIONS (H x W x D):
14.96" x 13.19" x 5.8"
-WEIGHT: 48.5 LBS
-UP TO 6 CARRIERS LTE IN MIMO
-2x2.5/4.9/9.8/10.1 GBPS CPRI
-HEAT DISSIPATION: -40 TO +55°



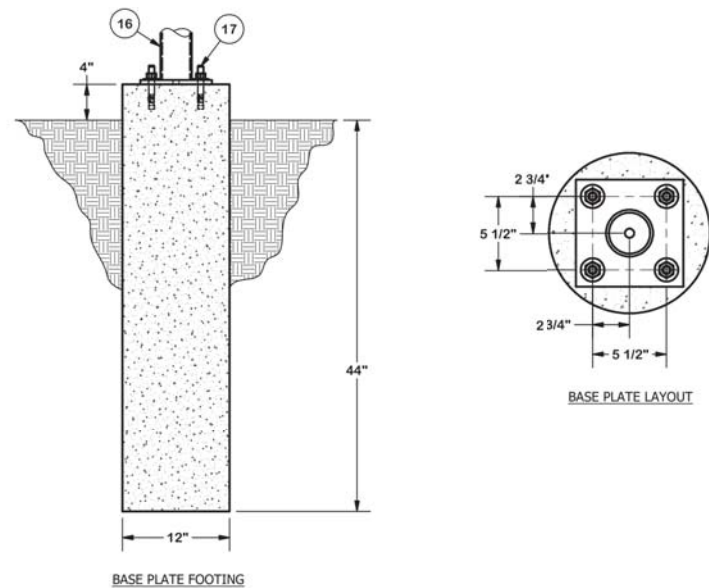
3 RRUS-4426 B66 DETAIL
S-2 SCALE: N.T.S.



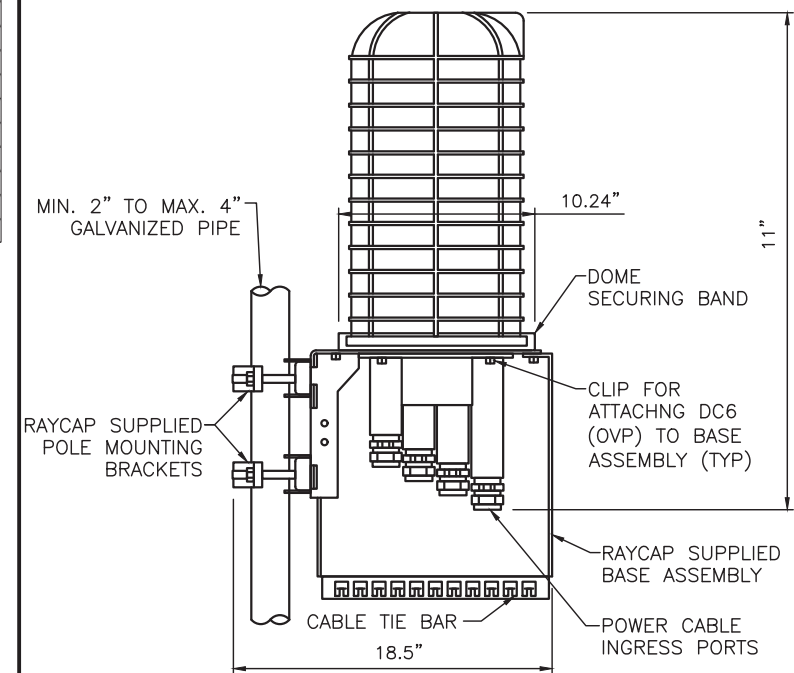
4 RRUS-4460 DETAIL
S-2 SCALE: N.T.S.



PARTS LIST						
ITEM	QTY	PART NO.	PART DESCRIPTION	LENGTH	UNIT WT.	NET WT.
1	1	GRS24	24" X 10' GRIP SPAN BRIDGE CHANNEL		67.98	67.98
2	2	HHD24	24" UNIVERSAL CANTILEVER		14.10	28.20
3	4	X-UB1358	1/2" X 3-5/8" X 5-1/2" X 3" U-BOLT (HDG.)		0.77	3.09
4	8	G12FW	1/2" HDG USS FLATWASHER		0.03	0.27
5	8	G12LW	1/2" HDG LOCKWASHER		0.01	0.11
6	8	G12NUT	1/2" HDG HEAVY 2H HEX NUT		0.07	0.57
7	2	PC312	3-1/2" FENCE POST CAP		0.59	1.17
8	4	SPLICE	SPLICE FOR GRIP STRUT	7 3/8 in	0.53	2.10
10	28	G38FW	3/8" HDG USS FLATWASHER		0.01	0.33
11	14	G3803	3/8" x 3" HDG HEX BOLT GR5		0.12	1.70
12	14	G38LW	3/8" HDG LOCKWASHER		0.01	0.09
13	14	G38NUT	3/8" HDG HEAVY 2H HEX NUT		0.03	0.47
14	3	X-VT18	18" UNIVERSAL VERTICAL TRAPEZE		5.97	17.92
15	6	SQW38	3/8" SQUARE WASHER (GALV.)	2 in	0.27	1.64
16	2	X-SP126	BASE SHOE PLATE PIPE COLUMN		92.98	185.97
17	8	SWA585	5/8" X 5" STAINLESS WEDGE ANCHOR		0.61	4.85
TOTAL WT. #						305.30



6 ICE BRIDGE - SITEPRO 1 - PART NO. IB24B-V
S-2 SCALE: N.T.S.



- NOTES:**
- UNIT SHALL BE MOUNTED AS PER MANUFACTURER'S RECOMMENDATIONS.
 - CONTRACTOR SHALL TIGHTEN ALL BOLTS TO A "SNUG TIGHT" CONDITION AS DEFINED BY AISC.
 - CONTRACTOR SHALL INSTALL RAYCAP DISTRIBUTION UNIT WITHIN 15 FEET FROM ALL RRH'S.

7 DC9-48-60-24-8C-EV MOUNT DETAIL
S-2 SCALE: N.T.S.



TOWER TECH
ENGINEERING PSC
TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

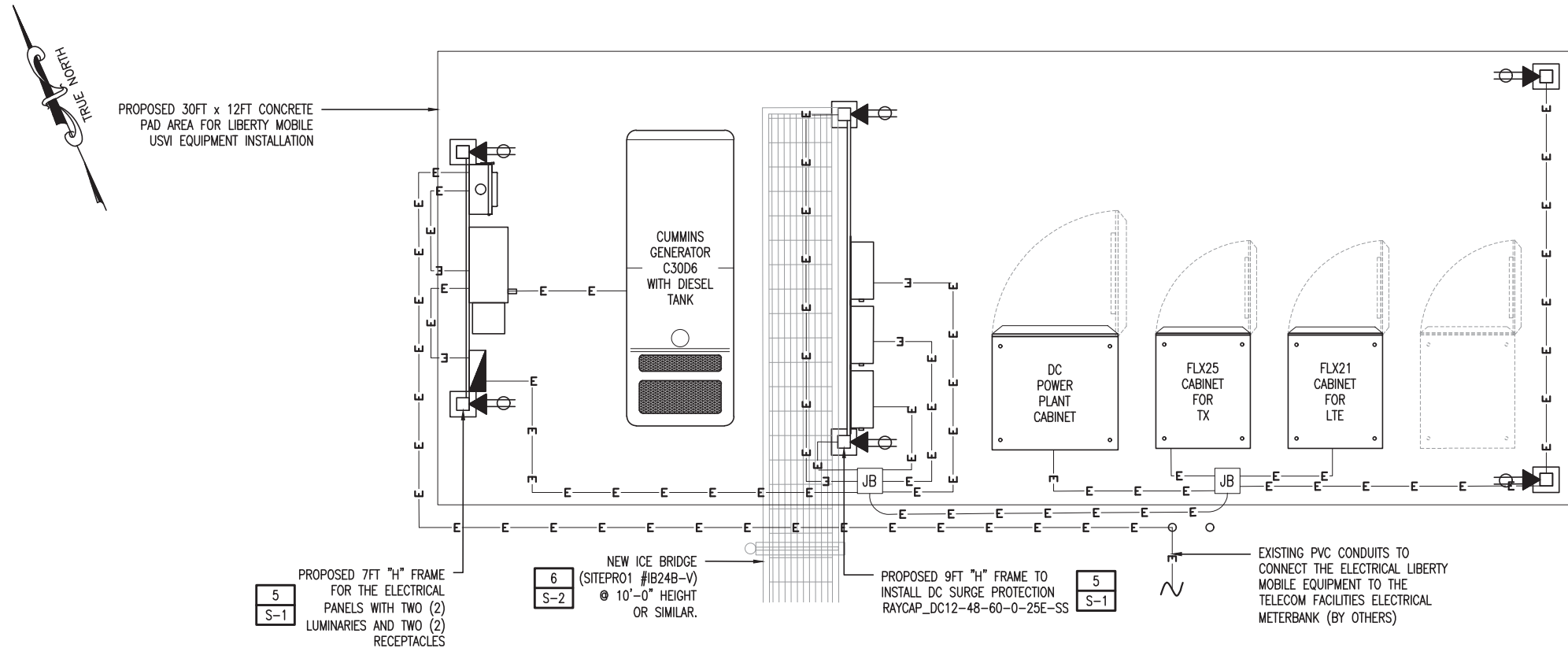
DRAWN BY: A.C.R.
CHECKED BY: E.M.U.

CORAL BAY
USVI-00408

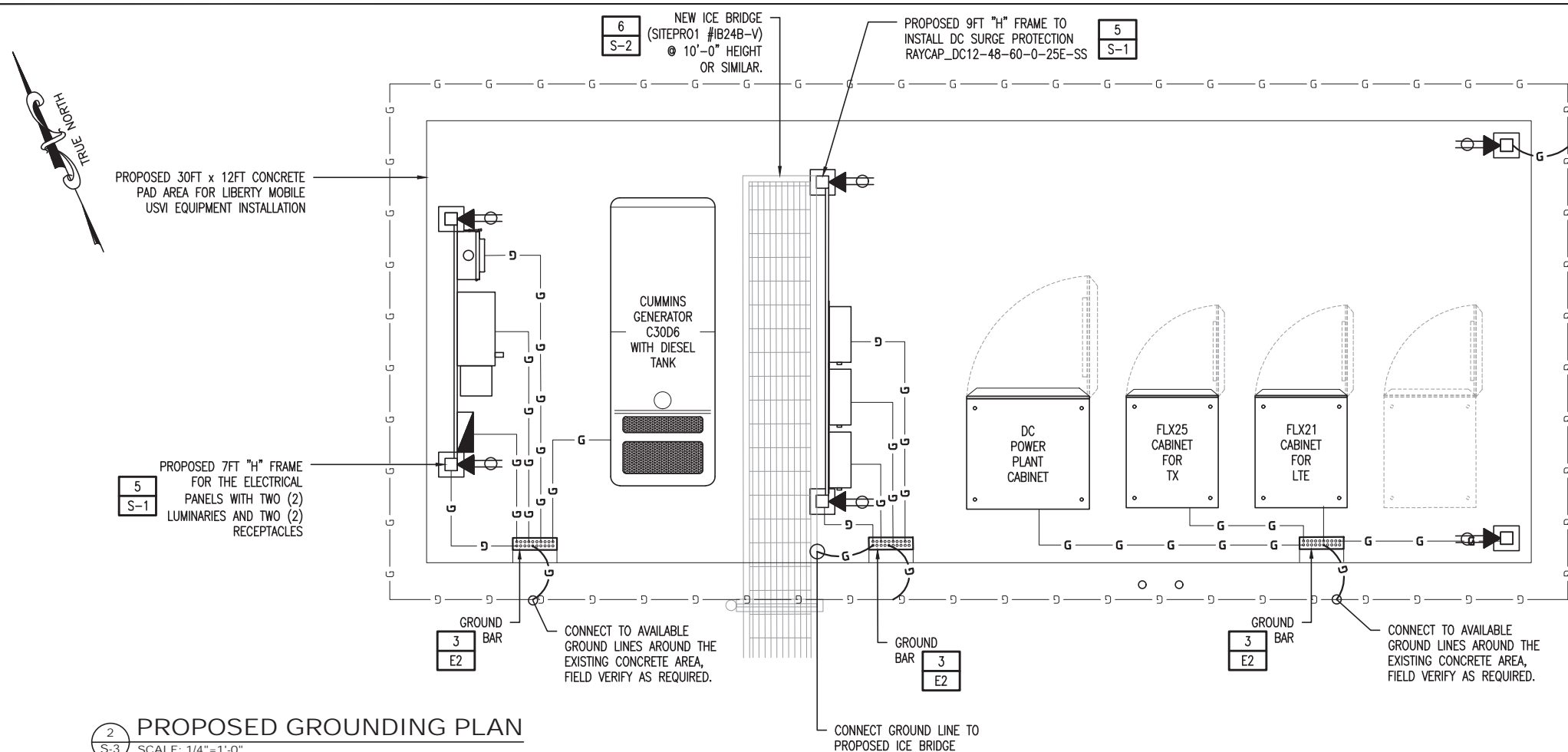
6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION
DETAILS

SHEET NUMBER
S-2



1 PROPOSED ELECTRICAL PLAN
SCALE: 1/4"=1'-0"



2 PROPOSED GROUNDING PLAN
SCALE: 1/4"=1'-0"

****NOTE:**
CONTRACTOR SHALL FIELD VERIFY THE EXISTING GROUND LEADS RESISTIVITY PRIOR TO UTILIZATION FOR LIBERTY MOBILE USVI EQUIPMENT GROUNDING.

SYMBOL LEGEND

- E— NEW ELECTRICAL LINE CONSISTING OF THREE (3) #6 THWN & 1 #6 THWN FOR GROUND IN 2½" RIGID METALIC CONDUIT.
- G— NEW STRANDED WIRE #2 AWG.
- ▷ PROPOSED LAMP, VERIFY WITH A LIBERTY MOBILE REPRESENTATIVE FOR THE MODEL.
- ⊕ 20A, 120V DUPLEX RECEPTACLE GROUNDING TYPE, HUBBELL# CBRF201
- JB NEW 8"x8" JUNCTION BOX.
- ◻ SQUARE D LOAD CENTER WITH 200 AMP. MAIN BREAKER, NEMA 3R, 120/240V, 42 BREAKER POSITIONS.
- ◻ SQUARE D 200 AMP. SAFETY SWITCH, NON FUSIBLE HD, 120V-240V (208V), NEMA 3R OUTDOOR.
- ◻ PROPOSED AUTOMATIC TRANSFER SWITCH INTERSECT D300

1 REPRESENTS DETAIL #
C7 REPRESENTS SHEET#

NOTE 1 REPRESENTS NOTE
SHT E7 REPRESENTS SHEET#



TOWER TECH
ENGINEERING PSC

TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION
DRAWN BY:		CHECKED BY:
A.C.R.		E.M.U.

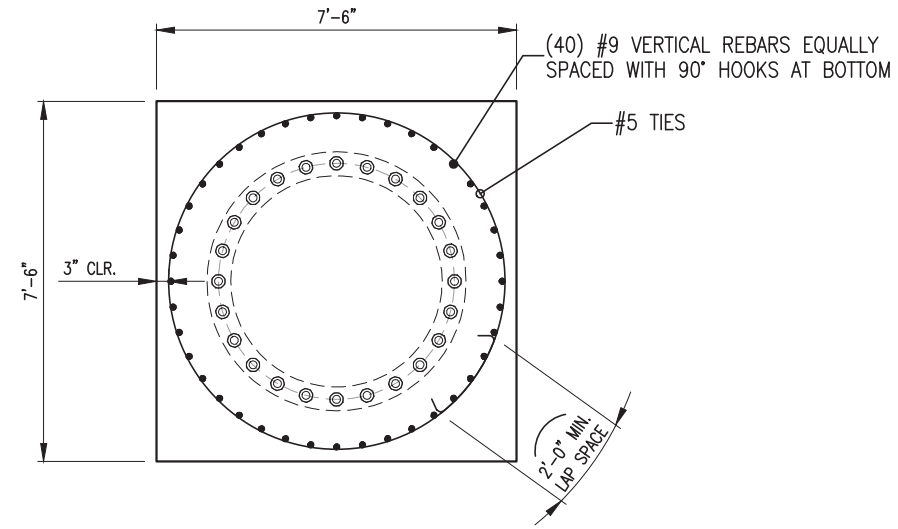
CORAL BAY
USVI-00408

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION
**ELECTRICAL &
GROUNDING PLAN**

SHEET NUMBER

S-3




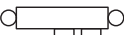


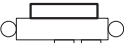


SHEET NUMBER

F-1

-
- THE EXISTING ON
6. THE CONSTRUCT
 7. ELECTRICAL WO
 8. UNDERGROUND
 9. PREFABRICATED
- PROPOSED LIBERTY MOBILE 12FT x 30FT CONCRETE PAD
- PROPOSED USVI GOV. 10FT x 15FT CONCRETE PAD
- PROPOSED 8FT HEIGHT CHAIN LINK FENCE WITH RAZOR AND BARBWIRE
- PROPOSED EASEMENT
- PROPOSED 12FT WIDE ACCESS GATE
- PROPOSED 12FT WIDE SITE ACCESS ROAD
- PROPOSED 45FT/CLASS 2 POWER WOOD POLE WITH A NEW 75KVA POLE MOUNTED TRANSFORMER
- PROPOSED TELCO BOX
- PROPOSED ELECTRICAL METER BANK (SEE SHEET E2 FOR DETAILS)
- 5 E2
- 6 E2
- NSU
- NP

10. A 6" WIDE YELLOW WARNING RIBBON WITH PERMANENT AND REPETITIVE PRINT WITH THE WORDS "DANGER-DANGER" AT THE UPPER HALF OF THE RIBBON AND "ELECTRICAL LINES BELOW" AT THE LOWER HALF OF THE RIBBON SHALL BE INSTALLED AT 12" BELOW THE GROUND OVER UNDERGROUND ELECTRICAL CONDUITS. THE SIZE OF THE LETTERS SHALL BE AT LEAST 1-1/4" X 5/8".
11. IN THE STREETS AND/OR ROADS CROSSINGS, SIDE WALKS, OR WHERE UNDERGROUND CABLES CROSS GAS OR WATER SERVICE SYSTEMS, THE CABLES SHALL BE PROTECTED WITH PVC SCHEDULE 40 CONDUIT AND SHALL BE AT LEAST 13" APART FROM THE LINES OF OTHER UTILITIES.
12. ALL UNDERGROUND CONDUITS, AND/OR CABLES SHALL BE INSPECTED BY VIWAPA PERSONNEL BEFORE COVERING THE TRENCH MADE TO INSTALL THEM.
13. CABLE INSTALLATION SHALL BE DONE WITHOUT THE USED OF SPLICES.
14. PULL BOXES SHALL BE APPROVED FOR UNDERGROUND INSTALLATION TAKING INTO CONSIDERATION THE LENGTH OF THE THROW AS INDICATED IN THE UNDERGROUND DISTRIBUTION MANUAL FROM VIWAPA.
15. ALL ELECTRICAL EQUIPMENT SHALL BE CONNECTED TO THE EARTH BY MEANS OF A 5/8" X 10' COPPERWELD ROD. THE RESISTANCE TO THE GROUND SHALL NOT EXCEED 10 OHMS.
16. GROUND SYSTEMS FOR PEDESTALS, TRANSFORMERS, SWITCHGEAR, ETC. SHALL HAVE A RESISTANCE NOT EXCEEDING 10 OHMS. ELECTRICAL CONTRACTOR SHALL VERIFY THIS CONDITION AT THE PROJECT.
17. FUSES AND/OR FUSE HOLDERS SHALL BE 6" APART FROM METAL COMPONENTS.
18. FUSES OR FUSE HOLDERS FOR PRIMARY LINE INTERRUPTION SHALL BE KEPT DE-ENERGIZED UNTIL VIWAPA PERSONNEL CLOSE THEM.
19. ELECTRICAL CONTRACTOR SHALL SUPPLY A SPARE FUSE FOR EACH PRIMARY FUSE HOLDER IN VAULT AND/OR TRANSFORMERS TRANSLOCUSURES.
20. THERE SHALL BE NO WATER LINE OR SEWAGE SYSTEMS UNDER THE FLOOR OF SUBSTATIONS, SWITCHGEARS, TRANSFORMER, TRANSLOCUSURES, ETC.
21. IN ROAD CROSSES, PVC SCH. 40 CONDUIT WITH PRIMARY FEEDERS, SHALL BE PROTECTED BY A CONCRETE ENCASUREMENT OF AT LEAST 4". CONDUIT SHALL HAVE A MINIMUM OF THREE (3) INCHES SLOPE TO PERMIT THE FLOW OF ANY LIQUIDS THAT MIGHT ENTER THE CONDUIT.
22. IN ROADWAYS PAD MOUNTED TRANSFORMERS AND PRIMARY SERVICE UNITS OF THE UNDERGROUND ELECTRICAL SYSTEM SHALL BE PROTECTED AGAINST VEHICLE IMPACT.
23. ALL MEASURING EQUIPMENT, INCLUDING METER BASE, SHALL BE ACCESSIBLE TO VIWAPA EMPLOYEES.
24. A COVER SHALL BE INSTALLED OVER METER BANKS FOLLOWING THE SPECIFICATIONS FROM VIWAPA
25. IN CASES THAT APPLIES VIWAPA WILL NOT ENERGIZE THE FINAL ELECTRICAL WORK UNTIL ALL RIGHT OF WAYS ARE LEGALIZED AND CEDED TO VIWAPA.
26. ALL ELECTRICAL EQUIPMENTS AS METERBANKS AND TRANSFORMERS TO BE INSTALLED SHALL BE STAINLESS STEEL 304L.
27. THE ENDORSEMENT OF THESE DRAWINGS BY VIWAPA DOES NOT RELIEF THE ELECTRICAL CONTRACTOR OF COMPLYING WITH ALL THE REQUIREMENTS ESTABLISHED BY VIWAPA AND THE NATIONAL ELECTRICAL CODE.
28. THE ENDORSEMENT OF THESE DRAWINGS EXPIRE A YEAR AFTER BEING APPROVED BY VIWAPA.
29. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS AND NOTIFY TO THE ENGINEER, PRIOR TO CONSTRUCTION OF:
 - A) ANY CONFLICTING DETAIL OR DISCREPANCY WITHIN THE PLANS.
 - B) ANY DEPARTURE FROM NORMAL OR ASSUMED CONDITIONS.
 - C) ANY DETRIMENTAL INTERFERENCE OF INSERT, CONDUITS, OPENINGS OR OTHER STRUCTURAL ELEMENT.
 - D) ANY CONFLICT WITH ANY TECHNICAL SPECIFICATION.

LEGEND:	
SYMBOL:	DESCRIPTION:
	NEW OVERHEAD PRIMARY LINE CONSISTING OF TWO (2) #1/0 ACSR, 15KV.
	NEW UNDERGROUND SECONDARY LINE TWO (2) SETS OF THREE (3) # 3/0 MCM-RHW-XLP, 90' & 1-2 TW FOR GND.
	NEW 75KVA POLE MOUNTED TRANSFORMER IN A 45FT/CLASS 2 WOOD POLE. TRANSFORMER RATED VOLTAGE SHALL BE COORDINATE WITH USVI WAPA TECHNICAL DIVISION
	NEW 400AMP, 1ø, 3W METER BANK CONSISTING OF THREE (3) METER BASES. TWO (2) FOR 200AMP/2P AND ONE (1) FOR 100AMP/2P
	POWER LINE CONDUIT 2"ø PVC SCH 40
	FIBER LINE CONDUIT 2"ø PVC SCH 40
	TELCO BOX 30" x 30" TO BE INSTALLED ON THE BACK OF THE METERBANK



TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE

USVI PROFESSIONAL ENGINEER LIC. #1579



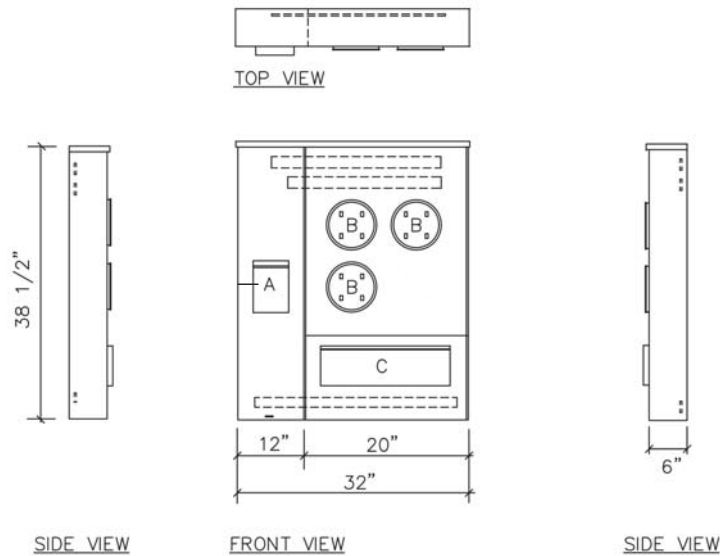
REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

DRAWN BY:	CHECKED BY:
A.C.R.	E.M.U.

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET NUMBER

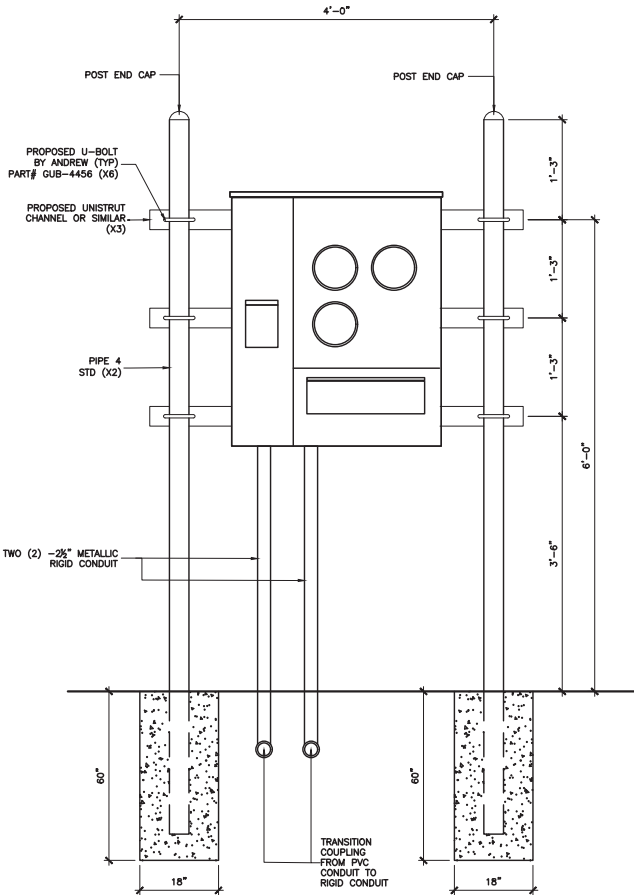
E1



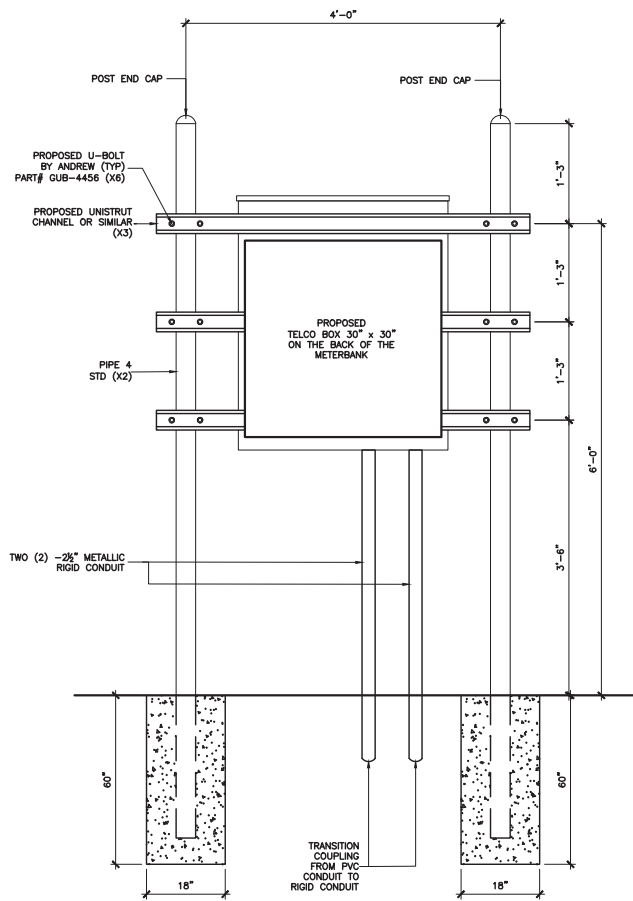
BILL OF MATERIAL				
ITEM	QTY.	MFRD.	CAT.NO.	DESCRIPTION
A	1	SIEMENS	JXD22B400L	MAIN BREAKER 400AMP. 2P
B	3	MILBANK	Z916308-AC	METER SOCKET 200A, 4 CLIPS
C	3	SIEMENS	QRH22B200L	LOAD CKT.BREAKERS 200A 2P @22KAIC

SPECIFICATION	
1	CONST. (OUT DOOR)
2	MATERIAL GALVANIZED STEEL
3	FINISH AIR DRY LIGHT GRAY ASA No.61
4	FACTORY WIRE & BUSSED.

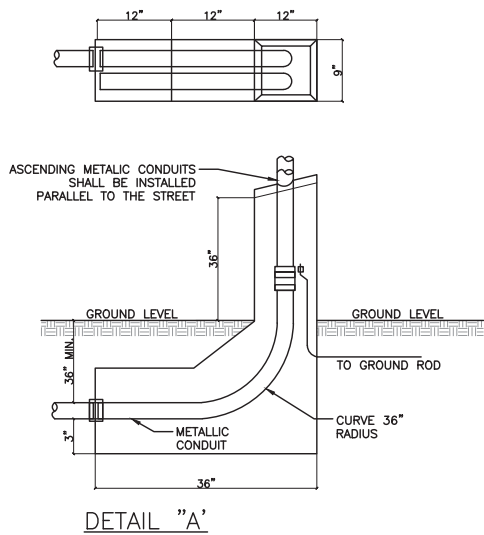
1 NEW METERBANK DETAIL
E2 SCALE: NOT TO SCALE



2 NEW METERBANK H-FRAME DETAIL (FRONT VIEW)
E2 SCALE: NOT TO SCALE

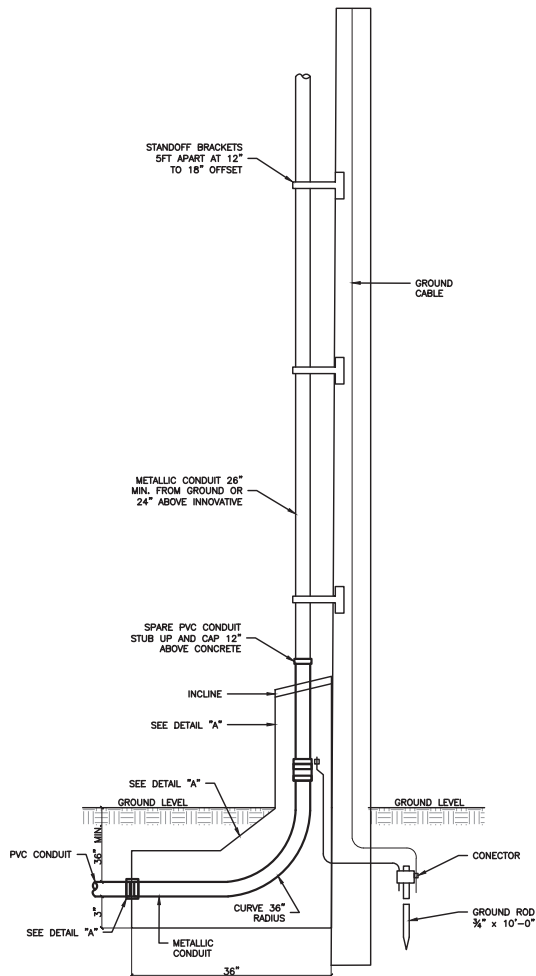


3 NEW METERBANK H-FRAME DETAIL (REAR VIEW)
E2 SCALE: NOT TO SCALE

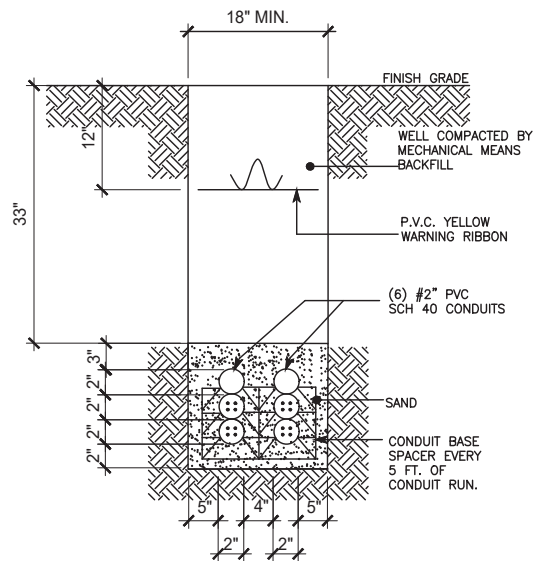
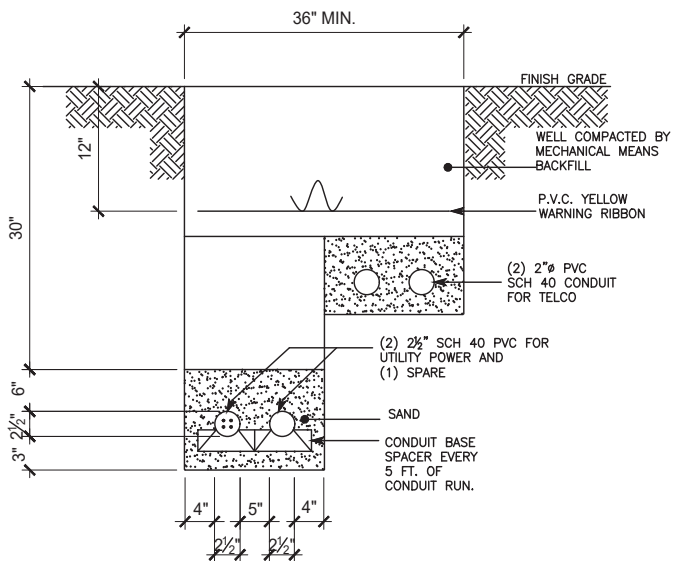


NOTE:
- DETAIL BASED ON VIWAPA DRAWING # SD-A-7358
DATED NOV. 2005. 2005, PAGE 9
"TYPICAL RISER METALLIC CONDUIT CONSTRUCTION POLE"

4 TYPICAL RISER METALLIC CONDUIT CONSTRUCTION ON MONOPOLE
E2 SCALE: NOT TO SCALE



5 MAIN FEEDER TRENCH DETAIL
E2 SCALE: NOT TO SCALE



6 NEW TRENCH DETAIL
E2 SCALE: NOT TO SCALE



TOWER TECH
ENGINEERING PSC
TELECOM INFRASTRUCTURE
CONSULTANTS AND ENGINEERS

TOWER TECH ENGINEERING, PSC.
AA1 CALLE 22 RIVER VW
BAYAMON PR 00961



LIBERTY MOBILE USVI INC.
279 AVE PONCE DE LEON
SAN JUAN PR 00917



BLUE SKY TOWERS III, LLC
352 PARK STREET STE 106
NORTH READING MA 01864

ELIAS MANGUAL, PE
USVI PROFESSIONAL ENGINEER LIC. #1579



REV	DATE	DESCRIPTION
0	01/16/24	FOR CONSTRUCTION
1	03/26/24	FOR CONSTRUCTION
1A	04/17/24	FOR CONSTRUCTION
2	05/09/24	FOR CONSTRUCTION

DRAWN BY:

A.C.R.

CHECKED BY:

E.M.U.

CORAL BAY
USVI-00408

6-4-1 ESTATE CAROLINA
NO.1 CORAL BAY QUARTER
CORAL BAY, ST JOHN, VI 00830

SHEET DESCRIPTION
ELECTRICAL DETAILS

SHEET NUMBER
E2

