

**PORT OF VALDEZ
COMMUNICATIONS SITE AGREEMENT**

This COMMUNICATIONS SITE AGREEMENT (Agreement) is hereby entered into on this 1 day of October, 2020 by and between the **CITY OF VALDEZ, ALASKA** (City), an Alaska municipal corporation, whose address is P.O. Box 307, Valdez, Alaska 99686 and Vertical Bridge S3 Assets, LLC (User), a Delaware limited liability company corporation whose address is 750 Park of Commerce Drive, Suite 200 Boca Raton, Florida 33487, as successor in interest to GCI Communication Corp.

WITNESSETH:

WHEREAS, the City is owner of that certain parcel of real property that is located in the Valdez Recording District, Third Judicial District, State of Alaska, described as follows:

Island F, a portion of ADL Nos. 201084 & 212412, also known as "Ammunition Island," referenced in Alaska Tidelands Survey 564, located in Township 8 South, Range 6 West, Copper River Meridian, Valdez Recording District, Third Judicial District, State of Alaska; and

Located upon that real property is the Valdez Container Terminal ("Terminal") including a certain grain handling facility with grain silos and an access tower upon which communications equipment may be placed ("Premises"); and

WHEREAS, User is engaged in the business of providing communication services in and around Valdez, Alaska, and desires to place certain equipment that is associated with the provision of communication services on and upon certain Terminal towers and structures and, further, desires to make and place certain improvements to and upon the Real Property whose function is to be associated with the operation of such equipment; and

WHEREAS, the City seeks to facilitate the provision of improved and innovative communications within Valdez and specifically find that this Agreement conforms therewith.

NOW, THEREFORE, IT IS MUTUALLY AGREED between the City and User as follows:

1. Use of Premises. The City grants user the right and privilege to use of the Premises as further defined in **Exhibit A** attached hereto.

User agrees to accept the premises AS IS, WHERE IS condition with all faults, and understands that the City makes no express or implied warranties, or representations that the Premises is fit for any particular purpose.

The City grants to User the right and privilege to come and be present upon and to make use of the Premises for the following purpose only:

To place, install, maintain and operate equipment associated with the provision of communications services within the City of Valdez and the surrounding vicinity. The equipment that User is permitted to place, install, operate, and maintain upon the Premises under this Agreement is depicted in **Exhibit B** attached hereto (“Equipment”) as is the permitted location and configuration of the Equipment.

User shall not commit or allow to be committed waste upon or to the Premises or Terminal or any public or private nuisance or other act or thing (including but not limited to noise or vibration) which disturbs City, any neighboring property owner or tenant.

Prior to the execution of this Agreement, User shall provide the City with a detailed description of the Equipment and drawings indicating the location and configuration of the Equipment on the Terminal and all ground Equipment including utilities and access.

2. **Fees.** User shall pay to the City, in exchange for the right and privilege to use the Premises as is permitted under this Agreement, and for the Term thereof, the sum of TWENTY THOUSAND DOLLARS and NO CENTS (\$20,000.00) per year. The fee shall increase annually by THREE (3) PERCENT rounded to the nearest dollar unless otherwise adjusted by resolution of the Valdez City Council. Annual fees for the term of this Agreement shall be:

2020 – \$5,041 (Pro-rated)
2021 – \$20,000
2022 – \$20,600
2023 – \$21,218
2024 – \$21,855
2025 – \$22,510

Fees for any period during the term hereof which is less than one year shall be prorated based on a three hundred sixty-five (365) day year.

These fees shall be paid in advance in one annual payment on or before January 31, of each year. Fees shall be paid directly to the Port of Valdez, P.O. Box 787, Valdez, Alaska 99686.

3. **Term.** This Agreement shall be for a term of FIVE (5) years, commencing on October 1, 2020 and terminating on December 31, 2025, unless this Agreement is terminated at some earlier date under the terms and conditions set out hereinafter.

4. **Extended Term.** User shall have the right to extend the Term of this Agreement for a period of FIVE (5) years if and insofar as User gives written notice to the City of an intention to exercise this option no later than THIRTY (30) days prior to the expiration of the Term and that, at such time, User is not in default in the performance of any of the terms and conditions of this Agreement or has failed to comply with any of the terms and conditions hereof. Two additional FIVE (5) year extensions may be granted by the City if User is in compliance with this Agreement

and the City deems this to be in the best interest of the City. At each extension, the City may increase the use rate based upon the fair market rental value of the use by User.

5. Consent Required for Modifications. User shall not place or install any equipment, or make any alteration, addition, or improvement to any existing equipment previously placed or installed, or place or put any improvements on or to the Premises or Terminal, or commence any such undertaking without the prior written consent of the City after submitting a Modification Application Form attached as **Exhibit C** and a \$1,500 modification application fee.

As a condition precedent to such consent, User shall deliver to the City written plans, drawings, and specifications for all such work and provide a third-party structural analysis of such modifications and/or improvements. The plans shall show the layout of all proposed buildings, modifications to existing buildings or structures, and all other modifications, dimensions and locations of utilities if modified, specific use of said improvements, and a schedule of the completion dates for such modifications and other improvements. It is not the intent of this paragraph to restrict or prevent any required maintenance.

6. Interference with Terminal or City Operations. User shall not place, install, maintain, or operate any equipment on or come upon, occupy or use the Terminal or Premises so as to hamper the operation or use of the Terminal, cement powder storage and distribution facility, or any other facility or that interferes with or impairs any of the rights or benefits of the City. The use of the Terminal and Premises for purposes deemed of higher public benefit by the City takes precedent over any use by User. User shall not interfere with the Valdez Police Department or Valdez Fire Departments use of the premises for communication purposes including the maintenance of two antennas located on the Terminal towers and a receiver box.

7. Multi-Use Facility. User recognizes that the Valdez Container Terminal (VCT) is a multi-use facility. There will be occasions when User's personnel may be restricted from access to the Terminal due to Coast Guard, Department of the Army, Department of Defense, or any other applicable regulations. In addition, the City may restrict access to the Terminal as required for Port operations or otherwise. Any business interruptions associated with the City restricting access or otherwise closing the Terminal shall create no financial obligation upon the City for any cost of such interruption to User operations.

9. Compliance with Government Regulations. User shall comply and assumes sole responsibility for compliance with any and all economic, operational, safety, and other requirements as are or may be imposed by federal, state, municipal, or other law or regulatory body, that apply or relate thereto pursuant to its involvement in the communications business generally or cellular communications specifically; User agrees to reimburse the City its entire costs, including but not limited to the amounts of fines or penalties and costs of counsel, arising from any assertion or finding of a lack of compliance with any aforesaid laws and/or regulations arising out of or with respect to User's operations of the equipment associated with this Agreement.

10. Access. User understands that the Terminal is located on a regulated facility as defined by the U.S. Coast Guard, Department of Homeland Security and agrees to comply with

any and all regulations in 33 CFR, Chapter 1, Subchapter H, Part 105 – Maritime Security: Facilities.

User agrees to provide the Port office with a list of all employees or contractors needing access to the Terminal. All employees and contractors shall have a valid Transportation Worker Identification Credential (“TWIC”) or be escorted by a valid TWIC holder that has been approved for access to the Terminal and contact the Port Office to register TWIC for facility access in advance of arrival on site. Employees and contractors requiring access to the Terminal must pay the gate registration fee under the Port of Valdez Terminal Tariff (“Tariff”) in effect at the time of registration and will incur additional administration/maintenance charges under the Tariff when City assistance or escort is required to access the terminal.

Only certified climbers covered by the requisite tower climbing insurance may climb the tower located at the Terminal.

11. Nuisance. User shall immediately remove from the Terminal and Premises any of the following which are determined to be abandoned: buildings, improvements, vehicles, equipment, machinery or fixtures. User shall not allow a public nuisance to exist or to be created or maintained on the Premises or Terminal. If the City Manager or Port Director determines that User has failed to perform as required by this subsection, the City Manager or Port Director may direct User to secure a labor force to so perform at the sole expense of User and User shall do so immediately. If User fails to commence such performance within twenty-four hours after notice from the City Manager or Port Director, the City Manager or Port Director may arrange for such performance at the sole expense of User and User shall pay those expenses.

12. Indemnification. To the maximum extent permitted by law, User (Indemnitor) agrees to defend, indemnify, and hold harmless, the City, the City’s employees, and any/all other entities for which the City is, or may become, legally responsible (Indemnitees), against and from any and all claims in any way associated with anyone’s conduct under, induced by, and/or enabled by, this Agreement, alleged to have arisen in whole or in part as a result of any conduct on the part of the Indemnitor and/or one or more of the Indemnitees.

13. Insurance Requirements. All insurance policies required to be maintained by User under this paragraph shall name the City, and its officers, employees and agents, as additional insureds. All policies issued under paragraph shall contain an agreement by the insurers that such policies shall not be cancelled without at least twenty (20) days prior written notice to the City, and certificates or copies of all such insurance policies shall be furnished to the City promptly upon request therefor. All policies shall contain a waiver of any subrogation rights any insurer might have against the City. User shall maintain, at its own expense, insurance as follows:

General Commercial Liability: User shall Maintain a General Commercial Liability insurance policy covering the User and the City for any and all claims for personal injury, bodily injury (including death) and property damage (including environmental degradation or contamination) arising from any activity occurring as a result of this Agreement.

A. Minimum limits:

1. \$1,000,000 Each occurrence
2. \$100,000 Damage to rented premises
3. \$1,000,000 Personal injury
4. \$3,000,000 General aggregate
5. \$3,000,000 Products and completed operations aggregate

B. Coverages:

1. The policy shall contain additional insured endorsement CG 20 10 04 13 and CG 20 37 04 13 or equivalent as approved by Contractor.

Auto Liability: User shall maintain business auto liability insurance covering liability arising out of any auto (including owned, hired, and non-owned autos).

A. Minimum Limits:

1. \$1,000,000 Combined single limit for each accident.

B. Coverages:

1. Additional insured endorsement
2. Waiver of subrogation
3. Contractual liability

Workers' Compensation: User shall maintain Workers' Compensation and Employer's Liability Insurance.

A. Minimum Limits:

1. Workers' compensation – statutory limit
2. Employer's liability:
\$1,000,000 bodily injury for each accident
\$1,000,000 bodily injury by disease for each employee
\$1,000,000 bodily injury disease aggregate

B. Coverages:

1. The policy shall provide for a waiver of subrogation in favor of the parties required to be named additional insured under the User's General Liability policy.

Umbrella Liability: User shall maintain shall Maintain an Umbrella Liability insurance policy covering the User and the City.

A. Minimum Limits:

1. \$5,000,000 per occurrence.

14. **Termination.** This Agreement may be terminated by the City should User's use interfere with the City's use of the Premises or Terminal for purposes deemed by the City as in the

best interest of the public, by providing User with one hundred eighty (180) days prior written notice of termination. This Agreement may be terminated by the City upon User's failure to perform or comply with any of the conditions or obligations contained in this Agreement, or the filing of a petition in bankruptcy or insolvency, or for reorganization or for the appointment of a receiver or trustee, by or against User; in such event, the City shall give User ten (10) days prior written notice of the termination and User shall have thirty (30) days to remove any of its equipment from the Terminal and Premises. This Agreement may be terminated by User upon thirty (30) days prior written notice of the termination and User shall then have thirty (30) days from the date of such notice to remove all of its equipment from the Terminal and Premises. The City reserves the right to terminate this agreement if it is in the best interest of the public to do so.

15. Radio Interference. At the City's request, User shall discontinue the use of the Terminal as a transmitting/receiver site should User's use interfere with any FCC licensed transmitter, receiver, or navigation aid until the cause of the interference is eliminated.

16. Assignability/ Use by Other Parties. User shall not assign (by operation of law or otherwise) or transfer this Agreement or any interest therein without the prior written consent of the City. User may not allow other parties to utilize User's equipment installed on the Premises without the prior written consent from the City. User shall immediately disclose any use of the Premises or User's equipment installed thereon by any party other than User. Failure to make such a disclosure will result in the imposition of a penalty in the amount of \$20,000 per year that User failed to make such a disclosure. Execution of this Agreement by User shall serve as a certification by User that no other parties are utilizing User's equipment installed on the Premises as of the date of execution.

17. Non-exclusive Use. The use of the Terminal and Premises by User will not be an exclusive use and therefore others who request to use it for similar purposes may also be allowed to do so by the City.

18. Snow and Bird Waste Removal. User will be responsible for all snow and bird waste removal necessary for its use under this Agreement.

19. Utility Installation/Usage. User will be responsible for the cost of installation of and the utilization of electricity needed for its use. User may utilize, if feasible, the existing port master meter to access power to the site of User's facilities. The City will bill User for reimbursement for the cost of power plus \$0.025 per KwH and the cost of other utilities used by User under this Agreement. User is responsible for obtaining and maintaining a separate electricity meter for its use under this Agreement.

20. Removal of Equipment. Upon the expiration or termination of this Agreement, User, at its sole cost and expense, will be responsible for the removing all equipment installed on the Terminal and/or Premises and restoring the Terminal and/or Premises to its condition prior to installation of the equipment except for normal wear and tear. Failure to remove the Equipment and restore the Premises as required in this paragraph within SIXTY (60) days of the expiration or termination of this Agreement will result in the Equipment being deemed abandoned.

21. Environmental Laws.

(a.) User represents, warrants, and agrees that it will conduct its activities on the Premises in compliance with all applicable Environmental Laws, and will keep the Premises free of Hazardous Substances, except for fuel for emergency generators. The City represents, warrants, and agrees that it has in the past and will in the future conduct its activities on the Premises in compliance with all applicable Environmental Laws and that the Premises is free of Hazardous Substances as of the date of this Agreement.

(b.) The City shall be responsible for, and shall promptly conduct any investigation and remediation as required by any Environmental Laws or common law, of all spills or other releases of Hazardous Substance, caused by the City, that have occurred or which may occur on the Premises. User shall be responsible for, and shall promptly conduct any investigation and remediation as required by any Environmental Laws or common law, of all spills or other releases of Hazardous Substance, caused by the User, that have occurred or which may occur on the Premises.

(c.) User agrees to defend, indemnify, and hold the City harmless from and against any and all claims, causes of action, demands, and liability including, but not limited to, damages, costs, expenses, assessments, penalties, fines, losses, judgments, and attorney's fees that the City may suffer due to the existence or discovery of any Hazardous Substance on the Property or the migration of any Hazardous Substance to other properties or released into the environment arising solely from User's activities on the Property.

(d.) The indemnifications in this section specifically include costs incurred in connection with any investigation of site conditions or any cleanup, remedial, removal, or restoration work required by any governmental authority.

22. Notices. All notices hereunder must be in writing and shall be deemed validly given if hand delivered or sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service, addressed to the City or User at the addresses indicated below (or any other address that the Party to be notified may have designated to the sender by like notice). Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

USER

	Cell Site / Technician	Lease Management	Billing Division
Name:	Richard Kennefick	Kendahl Voelker	Jessica Vinson
Address:	750 Park of Commerce	Dr. 5917 200, Boca Raton, FL 33487	
Phone:	877-589-6411	561-348-5232	561-406-4024
Email:	RKennefick@Verticalbridge.com	KVoelker@Verticalbridge.com	JVinson@Verticalbridge.com
*	Operations	Asset Mgmt / Legal	AP

* Check for Notification of Terminal Closures and Planned Outages

CITY

Name: Jeremy Talbott
Address: P.O Box 307
Valdez, AK 99686
Phone: (907) 835-4564
E-Mail: JTalbott@valdezak.gov

23. Governing Law/Venue. This Agreement shall be governed by and construed and enforced in accordance with the laws of the State of Alaska. Any legal action brought to enforce this Agreement must be filed in the appropriate Alaska state court located in Valdez, Alaska.

24. Entire Agreement. This Agreement contains the entire agreement of the parties with respect to the matters covered by this lease, and no other agreement, statement or promise made by any party which is not contained in this lease shall be binding or valid.

IN WITNESS WHEREOF, the parties to this presence have executed this CONTRACT in two (2) counterparts, each of which shall be deemed an original, in the year and day first mentioned above.

VERTICAL BRIDGE S3 ASSETS, LLC
AUTHORIZED:

BY: 
Adam Ginder
DATE: 3-24-21
TITLE: VP
FEDERAL ID #: 82-4285317

750 Park of Commerce Dr.
Mailing Address Ste 200
Boca Raton FL 33487
City, State, Zip Code

Signature of Company Secretary or Attest

Date: 3-24-2021

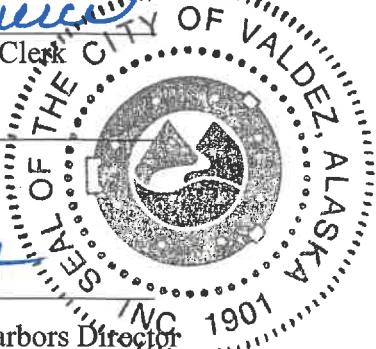
Vertical Bridge S3 Assets, LLC
Communications Site Agreement

CITY OF VALDEZ, ALASKA

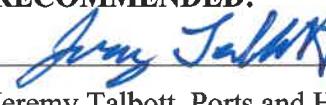
APPROVED:


Sharon Scheidt, Mayor
Date: 2/23/21

ATTEST:


Sheri L. Pierce, MMC, City Clerk
Date: 2/23/21


RECOMMENDED:


Jeremy Talbott, Ports and Harbors Director
Date: 2-23-21

APPROVED AS TO FORM:

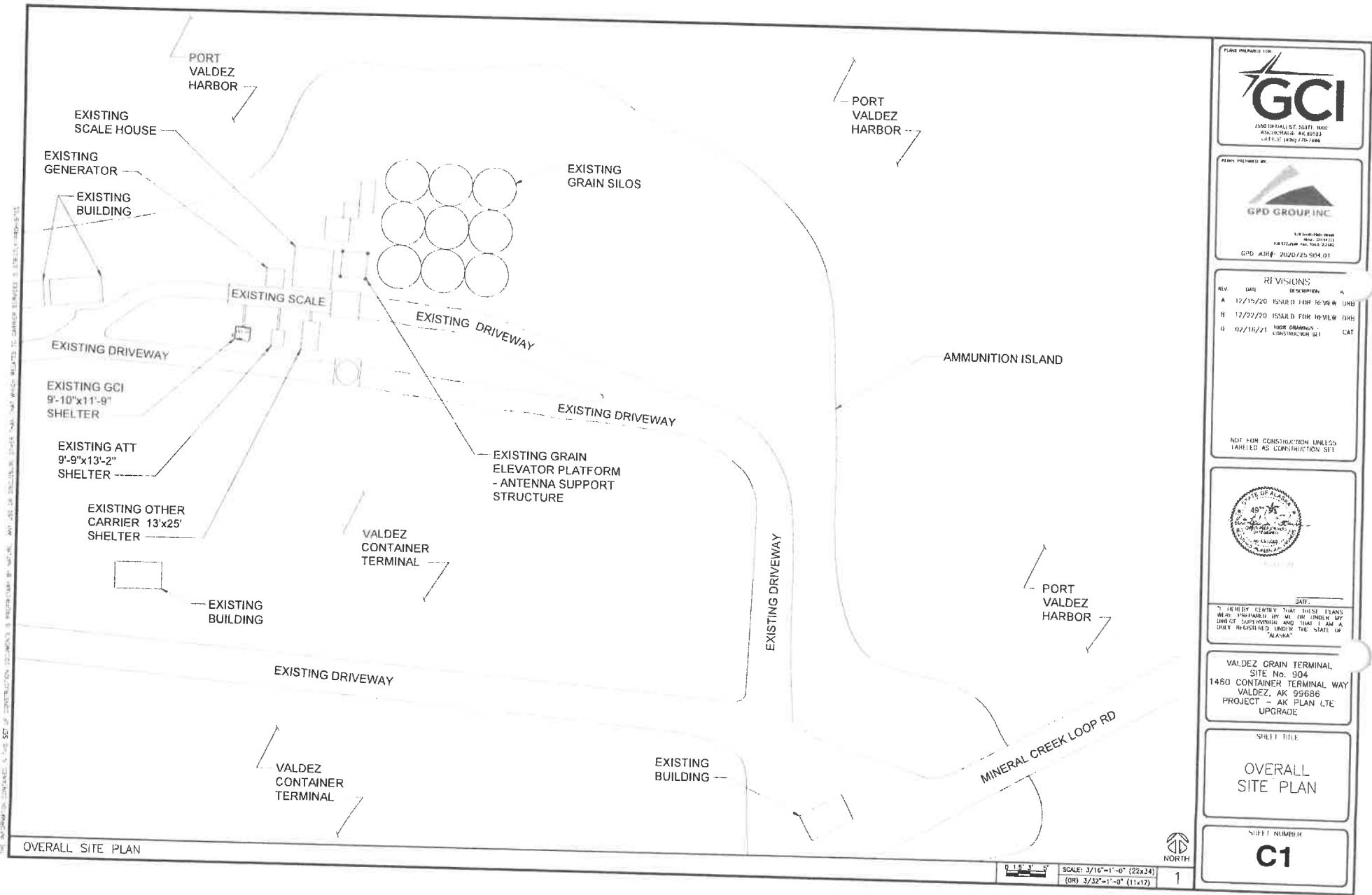
Brena, Bell & Walker, P.C.

Jake W. Staser

Date: 2/23/21

EXHIBIT A

Map/Description of Premises



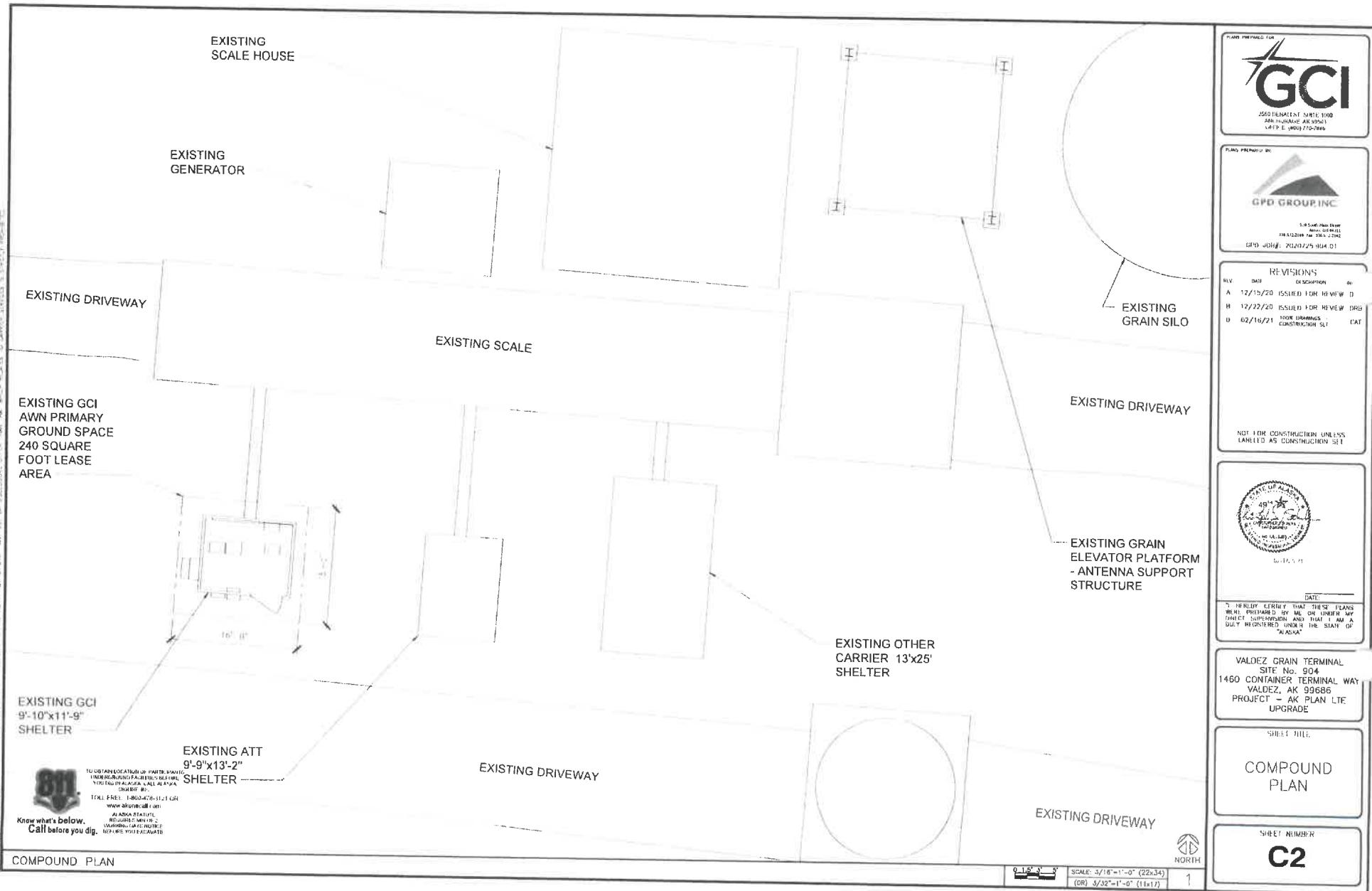


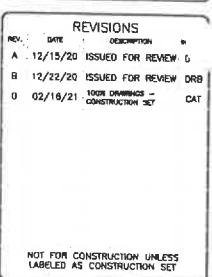
EXHIBIT B

List of Specific Uses and Equipment to be Installed on Premises



VALDEZ GRAIN TERMINAL SITE No. 904

1460 CONTAINER TERMINAL WAY VALDEZ, AK 99686 PROJECT - AK PLAN LTE UPGRADE CONSTRUCTION DRAWINGS



DATE:
I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION THAT I AM A
DRAFTS PERSON REGISTERED UNDER THE STATE OF
"ALASKA".

VALDEZ GRAIN TERMINAL
SITE No. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99686
PROJECT - AK PLAN LTE
UPGRADE

SHEET TITLE

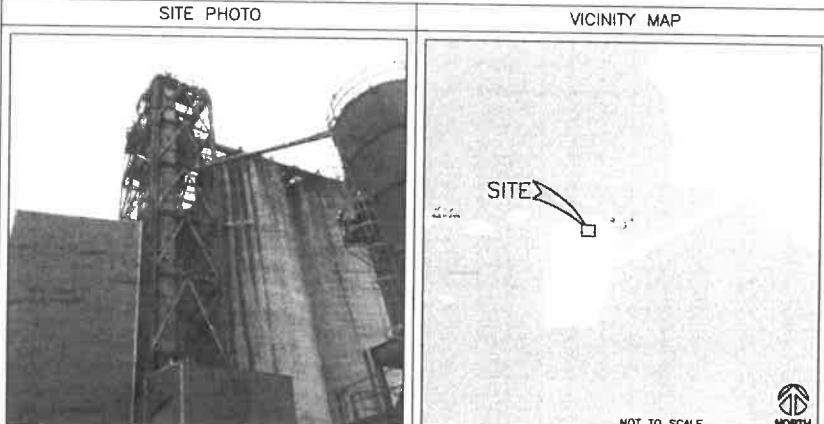
TITLE SHEET

SHEET NUMBER

T1

PROJECT INFORMATION	
SITE NAME:	VALDEZ GRAIN TERMINAL
SITE No.:	904
BOROUGH:	VALDEZ-CORDOVA
ADDRESS:	1460 CONTAINER TERMINAL WAY VALDEZ, AK 99686
JURISDICTION:	CITY OF VALDEZ
LATITUDE:	61.126197°
LONGITUDE:	-146.307564°
APPLICANT/LESSEE:	GCI 2550 DENALI ST., SUITE 1000 ANCHORAGE, AK 99503 (907) 265-5800
PROPERTY OWNER:	CITY OF VALDEZ PO BOX 307 VALDEZ, AK 99686
TOWER OWNER:	VERTICAL BRIDGE REIT, LLC 750 PARK OF COMMERCE DRIVE BOCA RATON, FL 33487
PARCEL ID:	TBD
LEGAL DESCRIPTION:	ISLAND F. A PORTION OF ADL NOS 201084 AND 212412, ALASKA TIDE WATERS SURVEY 564

SCOPE OF WORK	
THIS IS NOT AN ALL INCLUSIVE LIST. CONTRACTOR SHALL UTILIZE SPECIFIED EQUIPMENT PART OR ENGINEER APPROVED EQUIVALENT. CONTRACTOR SHALL VERIFY ALL NEEDED EQUIPMENT TO PROVIDE A FUNCTIONAL SITE. THE PROJECT GENERALLY CONSISTS OF THE FOLLOWING:	
GROUND LEVEL:	
• REMOVE (1) EXISTING RBS 6201 RACK	• INSTALL (1) NEW METER/MAIN
• REMOVE (1) EXISTING PBC 6500 RACK	• INSTALL (2) WEIGHT DISTRIBUTION PLATES
• REMOVE (1) EXISTING NORTEL 3031 CABINET	• INSTALL (1) NEW TVSS
• REMOVE (1) EXISTING METER/MAIN	• INSTALL (1) NEW FUSED DISCONNECT AND (1) NEW TRANSFORMER
• REMOVE (2) FAN HOODS, (1) LOUVER AND (1) FAN	
• REPLACE EXISTING AC PANEL AND GEN PLUG	
• INSTALL (3) NEW RCKDC-6140-PF-4B RAYCAPS	
• INSTALL (1) NEW 2 POST EQUIPMENT RACK	• REMOVE (3) EXISTING UMTS PANEL ANTENNAS
• INSTALL (2) NEW 4 POST BATTERY RACKS	• REMOVE (12) EXISTING 1-5/8" COAX LINES
• INSTALL (1) NEW ICE BRIDGE	• INSTALL (3) NEW CCI TPA65R-TEBC ANTENNA
• INSTALL (1) NEW AIRSYS FCB AND FCB CONTROLLER	• INSTALL (3) NEW ERICSSON 4480 RADIOS
	• INSTALL (3) NEW ERICSSON 4449 RADIOS
	• INSTALL (3) NEW RCKDC-6140-PF-4B RAYCAPS
	• INSTALL (3) NEW 1-1/4" HYBRID FIBER LINES

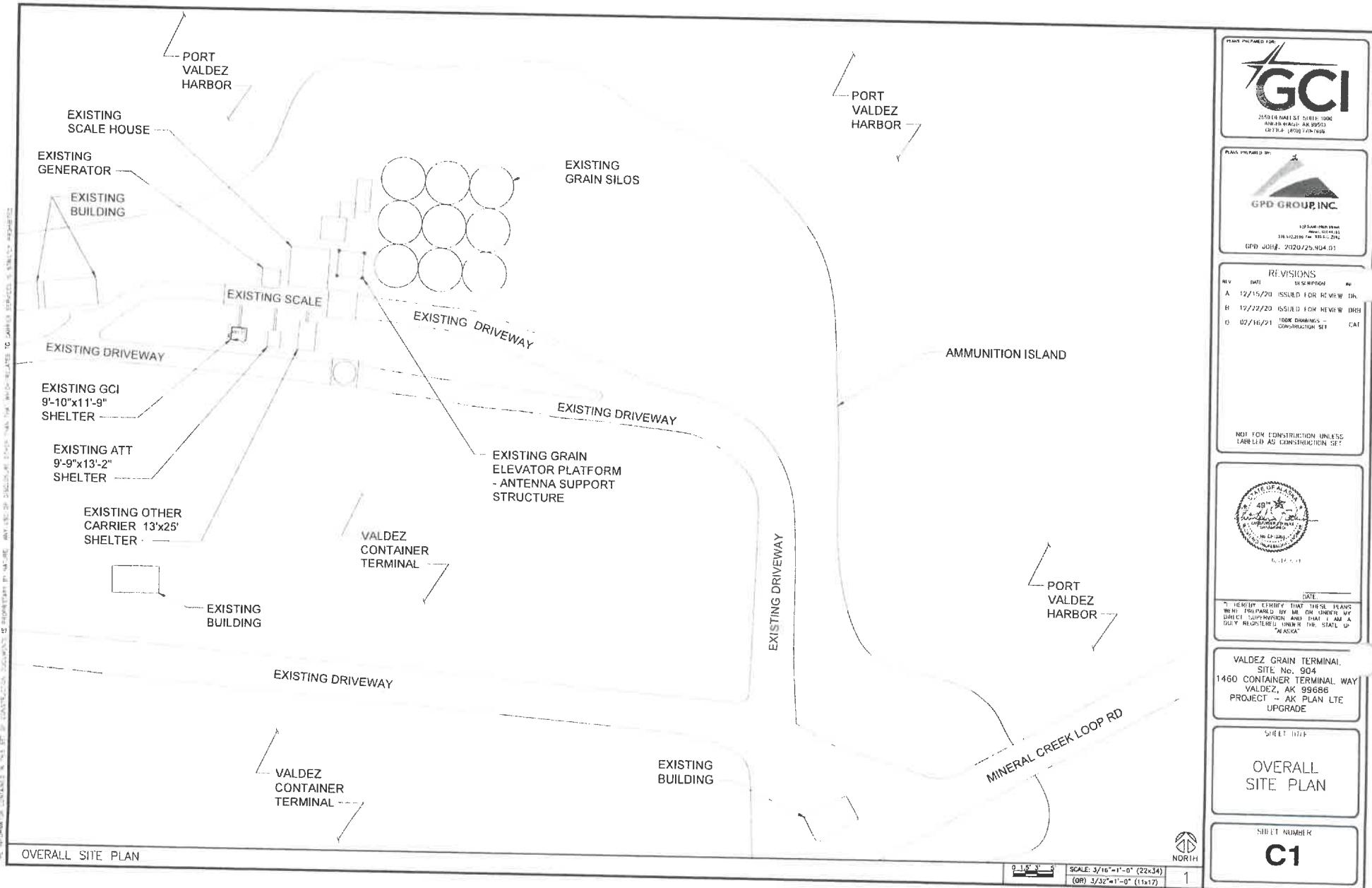


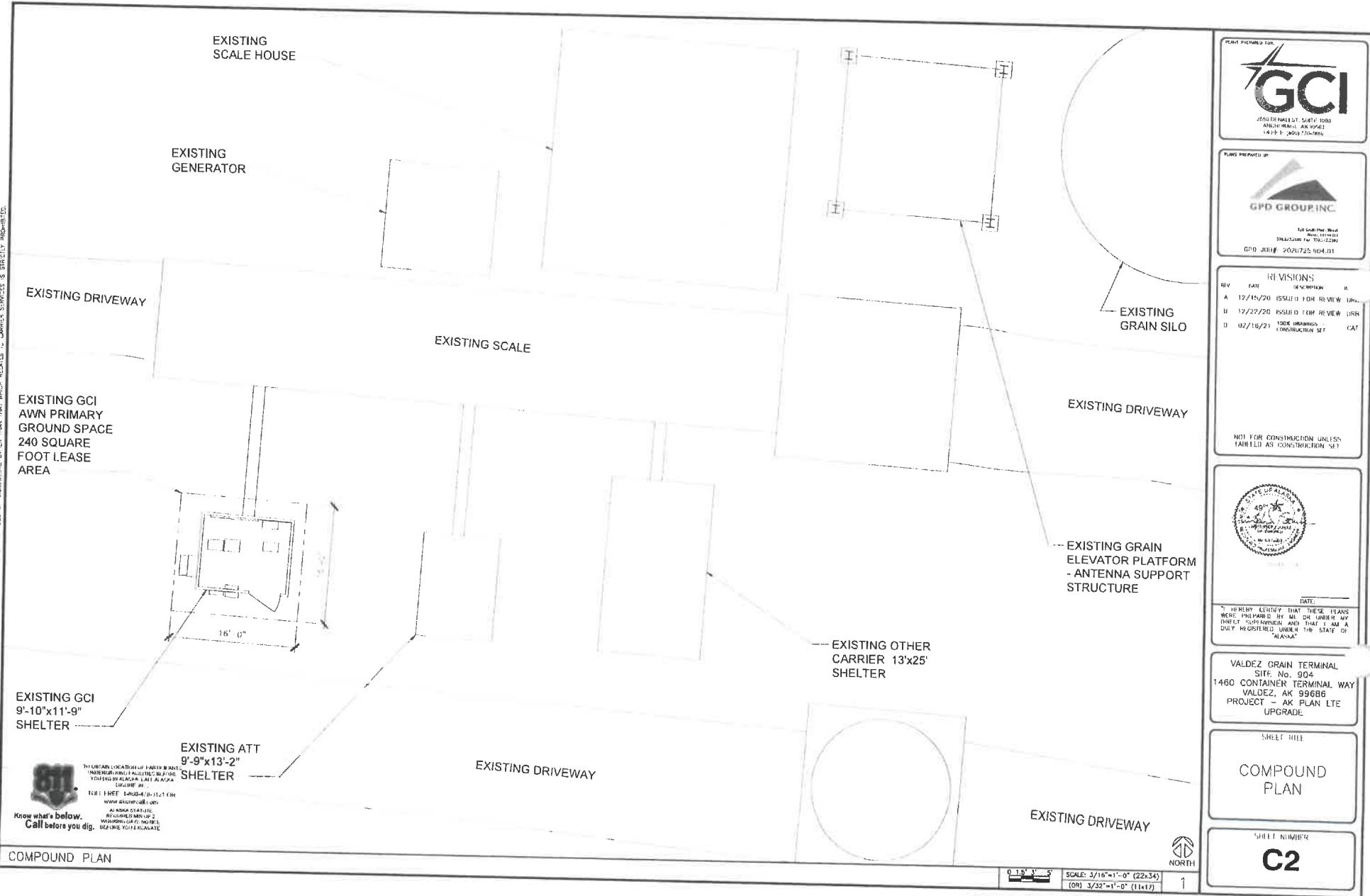
PROJECT CONSULTANTS	
PROJECT MANAGEMENT:	GCI 2550 DENALI ST., SUITE 1000 ANCHORAGE, AK 99503 CONTACT: PETER MAUS EMAIL: PMAUS@GCI.COM
ENGINEER:	CHRIS SCKEWS GPD GROUP, INC. 520 SOUTH MAIN STREET, STE. 2531 ANCHORAGE, AK 99503 CONTACT: RAYMOND FABER PHONE: (206) 204-7451
CONSTRUCTION:	GCI 2550 DENALI ST., SUITE 1000 ANCHORAGE, AK 99503 CONTACT: DAN GORDON PHONE: (907) 312-9592 EMAIL: DGORDON@GCI.COM

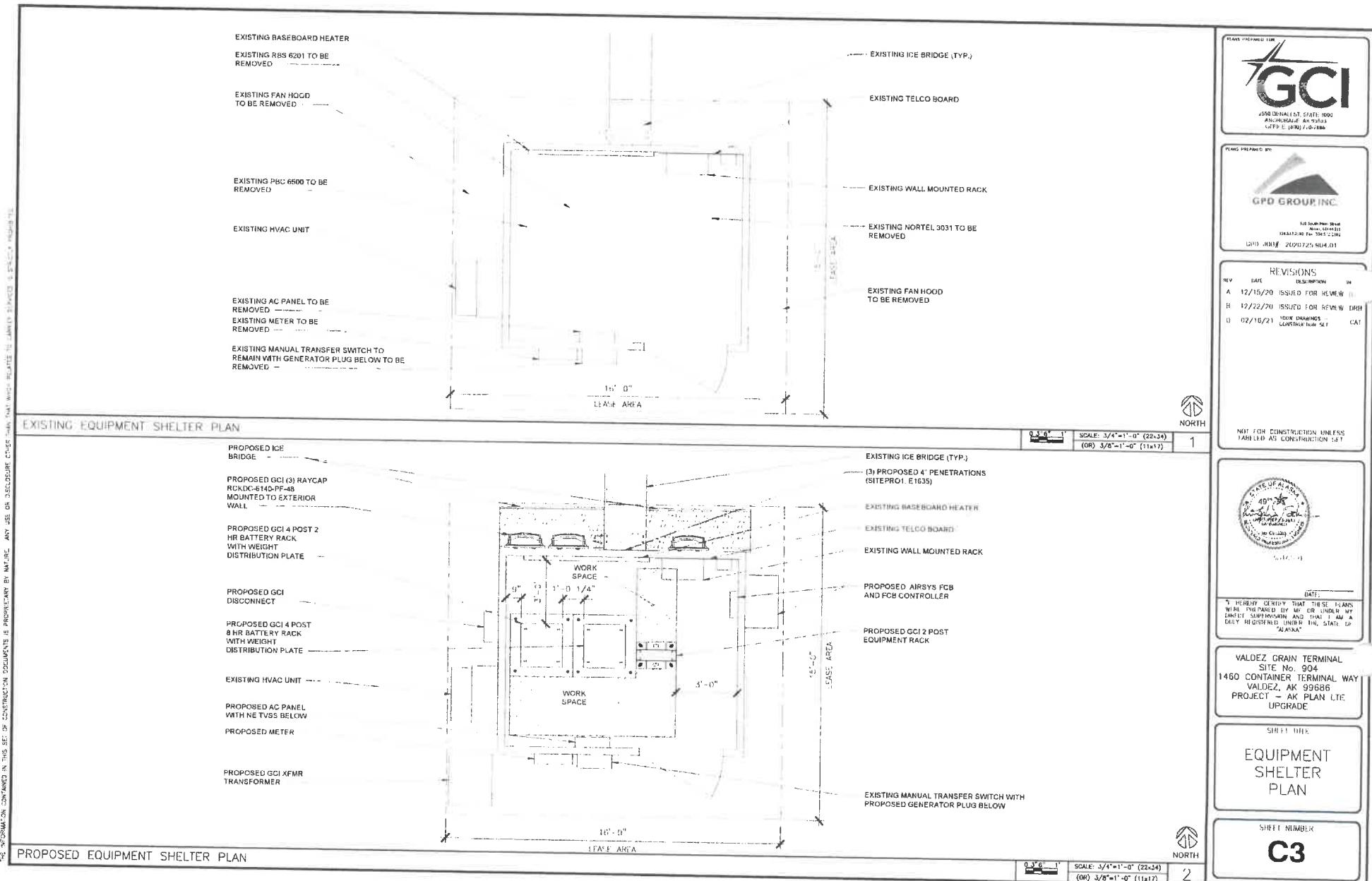
DRAWING INDEX	
T1	TITLE SHEET
N1	NOTES & SPECIFICATIONS
C1	OVERALL SITE PLAN
C2	COMPOUND PLAN
C3	EQUIPMENT SHELTER PLANS
C4	SILO/GRAIN TERMINAL/BANT ELEVATIONS
C5	SILO/GRAIN TERMINAL/BANT ELEVATIONS
C6	SILO/GRAIN TERMINAL/BANT ELEVATIONS
C7	SILO/GRAIN TERMINAL/BANT ELEVATIONS
RF1	ANTENNA PLAN & RF SCHEDULE
EQ1	EQUIPMENT DETAILS
EQ2	EQUIPMENT DETAILS
EQ3	EQUIPMENT DETAILS
S1	STRUCTURAL NOTES
S2	SHELTER DETAILS & SECTIONS
S3	SHELTER DETAILS & SECTIONS
S4	TOWER DETAILS & SECTIONS
S5	SPECIAL INSPECTION CHECKLIST
S6	MODIFICATION INSPECTION CHECKLIST
E001	LEGEND & SPECIFICATIONS (EIC ENGINEERS)
E101	ELECTRICAL SITE PLAN (EIC ENGINEERS)
E201	ONE-LINE DIAGRAMS, DETAILS, & SCHEDULES (EIC ENGINEERS)
E301	PANEL SCHEDULES (EIC ENGINEERS)
E401	DC GROUNDING DETAILS (EIC ENGINEERS)
E402	DC GROUNDING DETAILS (EIC ENGINEERS)

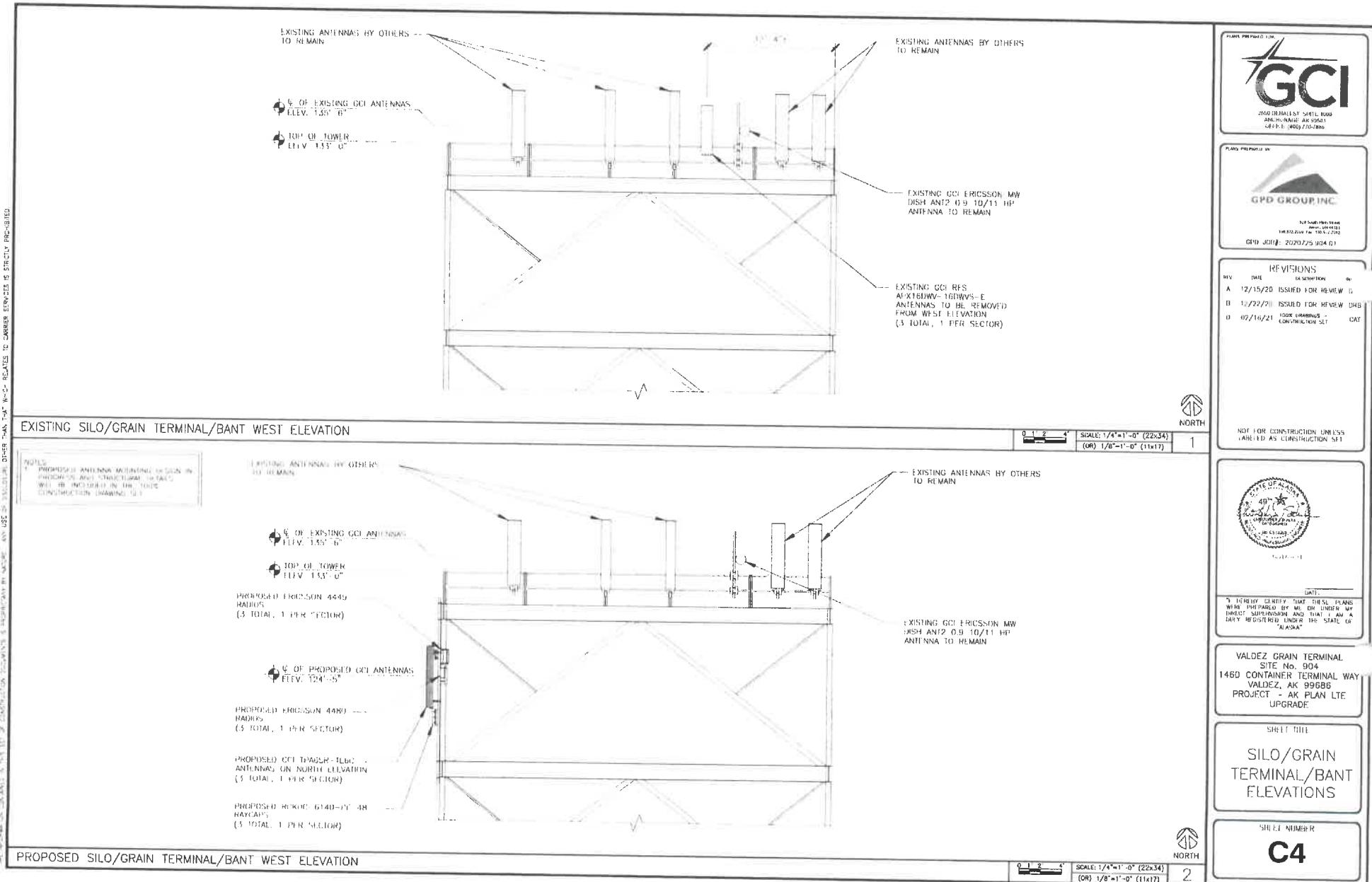
CODE COMPLIANCE	
• 2012 INTERNATIONAL BUILDING CODE	
• ASCE 7-10	
• ANSI/ISA-222 STRUCTURAL STANDARD FOR ANTENNA STRUCTURES	
• NFPA 780 LIGHTNING PROTECTION CODE	
• 2017 NFPA NATIONAL ELECTRICAL CODE	

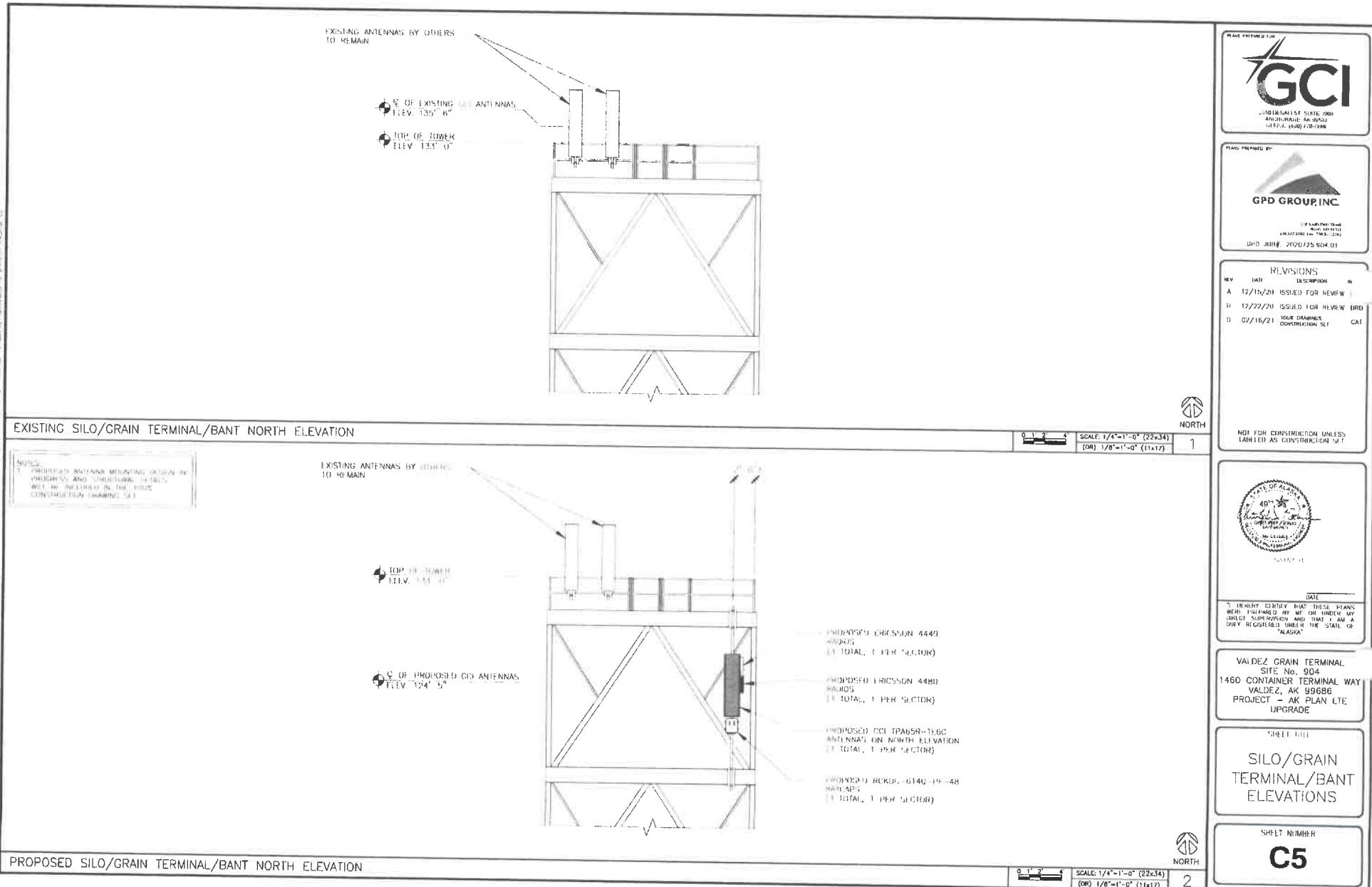
SPECIAL NOTES	
• EXISTING CONDITIONS WILL BE CHANGED & VERIFIED IN FIELD. IF SIGNIFICANT DEVIATIONS OR DETERIORATION ARE ENCOUNTERED AT THE TIME OF CONSTRUCTION, A REPAIR PERMIT WILL BE OBTAINED & CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY.	
• THESE DRAWINGS ARE FULL SIZE & SCALEABLE ON 11"X17" SHEET SIZE.	
• STATEMENT THAT COMPLIANCE WITH THE ENERGY CODE IS NOT REQUIRED.	
• SCOPE OF WORK DOES NOT INVOLVE MODIFICATIONS TO EXTERIOR ENVELOPE OF BUILDING, HVAC SYSTEMS OR ELECTRICAL LIGHTING.	
CONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT OR ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.	CONTRACTOR NOTES

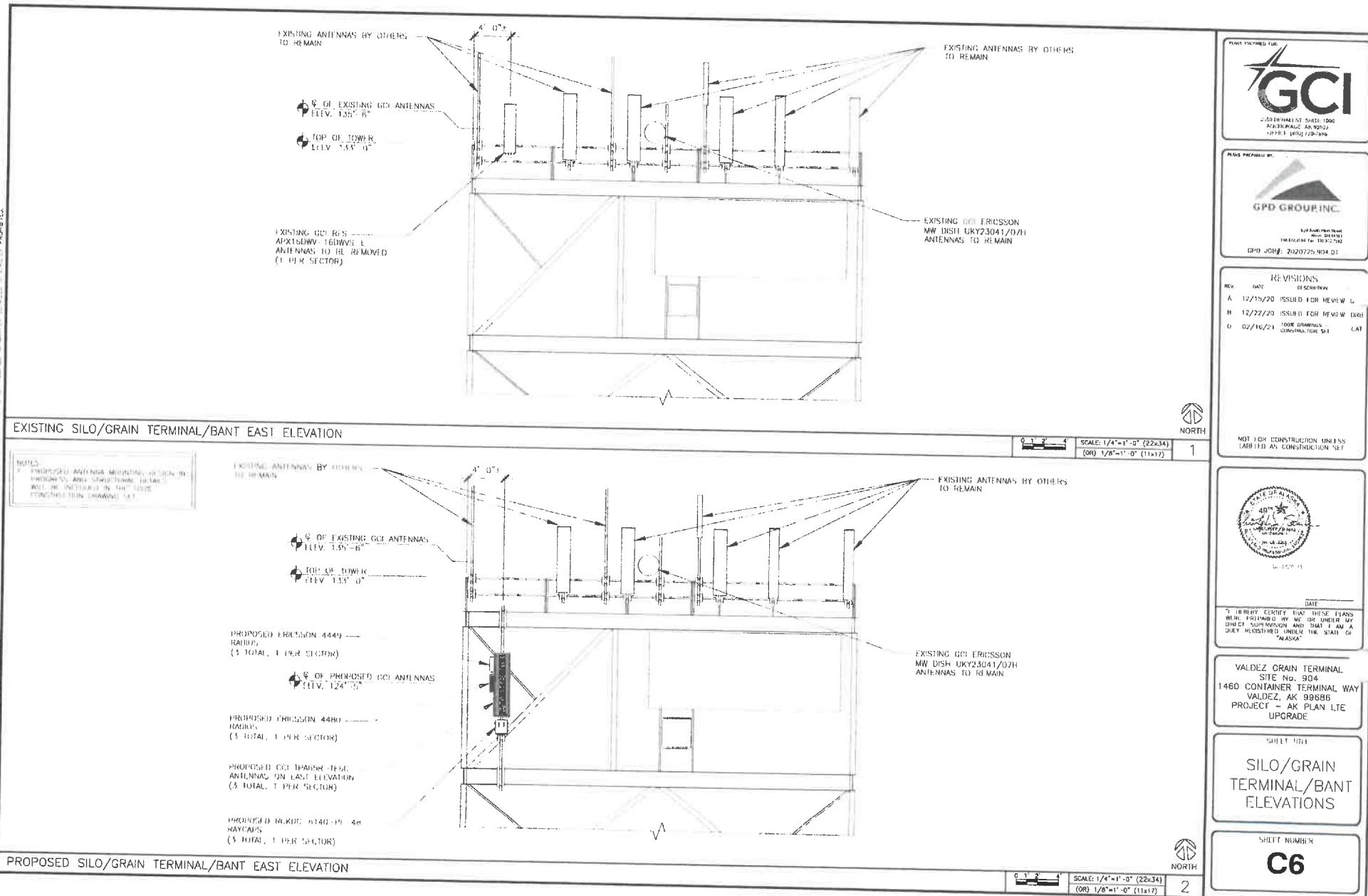


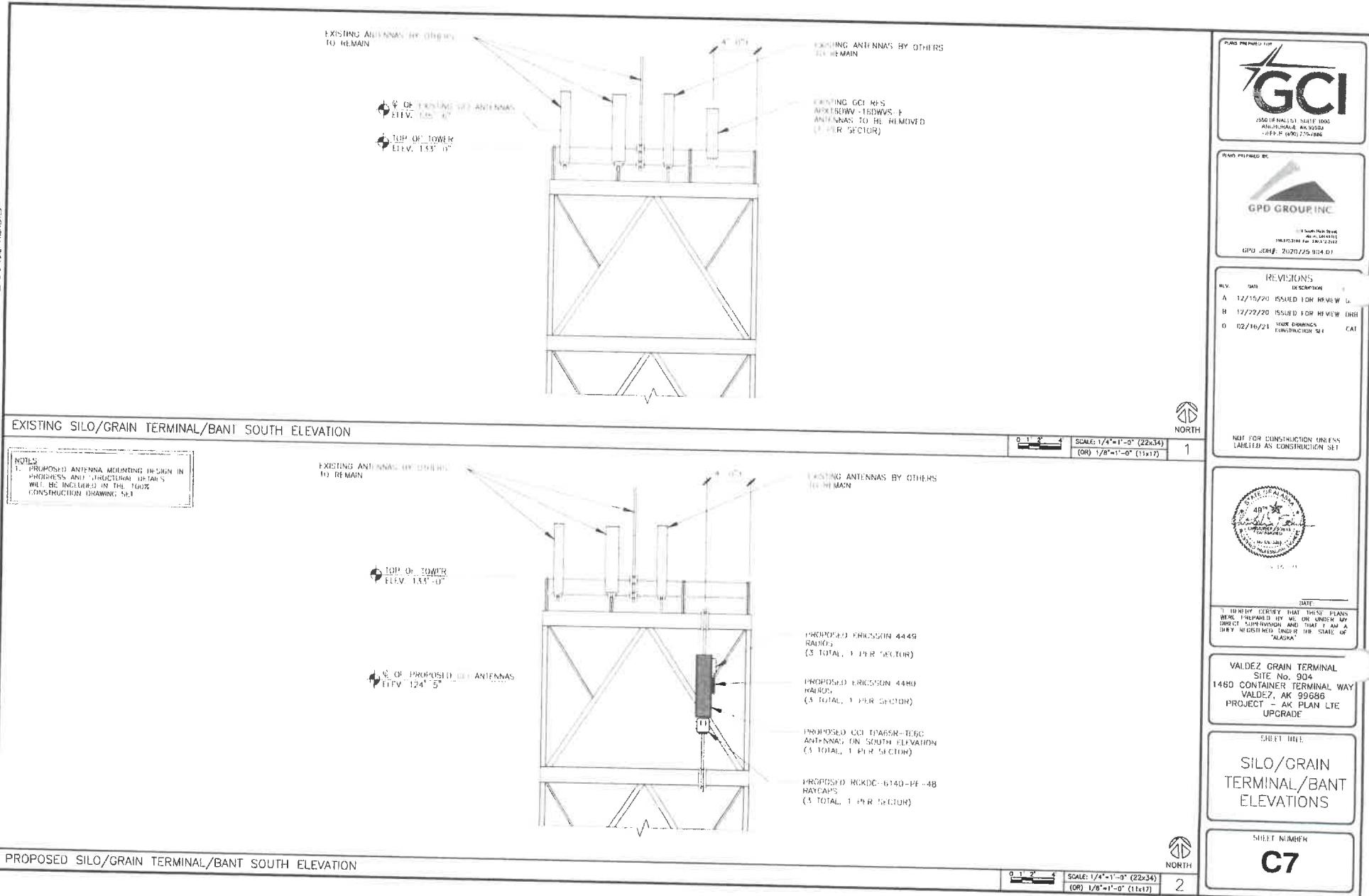












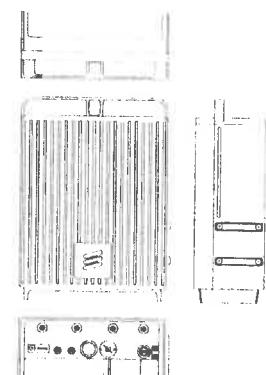
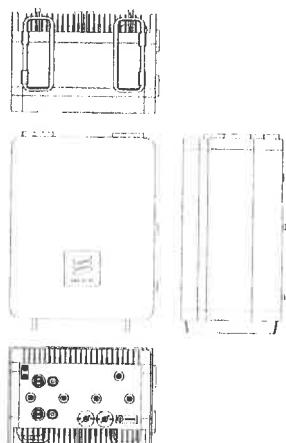


UCL ANTENNAS TPA05R-IE6C
WEIGHT (WITHOUT MOUNTING HARDWARE): 86.6 LB
SIZE (HxWxD): 71.2x25.5x8.1 IN
RATED WIND VELOCITY: 150.0 MPH

CCI ANTENNAS = TPA65R-TE6C

SCALE

SCALE 1 DETAIL NOT USEFUL



ERICSSON - RADIO 4449
WEIGHT: 70.0 LBS
SIZE (HxWxD): 18 x 13.2 x 9.4 IN

ERICSSON - RADIO 4449

SC

18

SCALE

10

11. *Leucosia* (Leucosia) *leucostoma* (Fabricius) (Fig. 11)

SCALE
NTS

REVISIONS		
DATE	DESCRIPTION	PG
12/15/20	ISSUED FOR REVIEW	D
12/22/20	ISSUED FOR REVIEW	DRH
02/16/21	100% DRAWINGS - CONSTRUCTION SET	CAT

NOT FOR CONSTRUCTION UNLESS
LABELED AS CONSTRUCTION SET

FOR
REFERENCE
ONLY

I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED BY ME OR UNDER MY
DIRECT SUPERVISION AND THAT I AM A
DULY REGISTERED TINDER THE STATE OF
AKASKA.

VALDEZ GRAIN TERMINAL
SITE No. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99686
PROJECT - AK PLAN LTE
UPGRADE

ANSWER

EQUIPMENT DETAILS

SHUT DOWN

EQ1

PLANS APPROVED FOR USE
GCI
2010 EDITION IBC
ANCHORAGE, AK 99503
GFI P-707-786

REVISION HISTORY

REV	DESCRIPTION	ENG	QA	DATE
A1	Updated Border, Updated Description	M.H. M.H.		11/3/14

Drawing Number: 6 Y0174 Rack Model: 5 FA4W2-2-4T#-P48 Description: 7' x 23" 4 Post, 4 Tray, Welded Zone IV Certified, 48V Rack

SEE SHEET 2
9 U SPACES AVAILABLE FOR ELECTRONIC DEVICES

DETAIL A

SEE SHEET 2

16.25
1.25
1.75 .50
(20) 12-24 UNC (NEAR FLANGE ONLY)
21.75
22.31

SEISMIC RACK CERTIFICATIONS / QUALIFICATIONS

Code/Standard	Certification/Qualification Levels
IBC 2012 (AC-156) SDs=1.33 , Ip=1.5 , z/h=1.0 (top of building)	SDs=2.0 , Ip=1.5 , z/h=0.0 (at/below grade)

SEISMIC RACK CODE CONFORMANCE

UBC 1997	ZONE 4, Ip=1.5, z/h=1.0 (top of building)
	ZONE 4, Ip=1.5, z/h=0.0 (at/below grade)

RACKS CONFORM TO THE UNIFORM BUILDING CODE (UBC) FOR SOIL PROFILE SD AND $N_a=1.5$. UBC ZONES ARE PROVIDED FOR REFERENCE ONLY SINCE UBC HAS BEEN SUPERSEDED BY THE INTERNATIONAL BUILDING CODE (IBC)

NOTES:

1. APPROX. UNPACKAGED RACK WEIGHT: 400 LBS
2. ADJUST VERTICAL BATTERY REATAINER TO BE NO MORE THAN .5" FROM TOP OF BATTERY
3. MAXIMUM PER SHELF LOAD IS 800 LBS
4. SEE SHEET 2 FOR PARTS LIST, NOTES AND ASSEMBLY DETAILS.

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5334 Olive Street
Montclair, CA 91763
PH: 844.352.7885
FAX: 866.810.6658
www.aptusfl.com

DO NOT MANUALLY REVISE OR UPDATE

Approval

QA	Date	ENG	Date
M.H.	11/3/14	CALIFORNIA PE STAMPED CERTIFICATES & TEST REPORTS OF DESIGN CERTIFICATION AND COMPLIANCE ARE AVAILABLE UPON REQUEST. CALL 844.352.7885	8/25/14

All dimensions in inches unless otherwise stated.
Tolerance Unless Otherwise Noted: Date of Origin: REV

XX ±0.1	XX ±0.05	10/23/14	A1

FSCM NO: Sheet: 1 of 3 Scale: NTS

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

FOR REFERENCE ONLY

VALDEZ CRATE TERMINAL
SITE No. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99686
PROJECT - AK PLAN LTE
UPGRADE

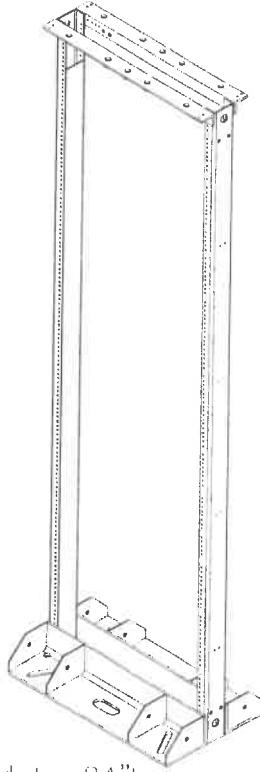
EQUIPMENT DETAILS

SHIPPING NUMBER
EQ2

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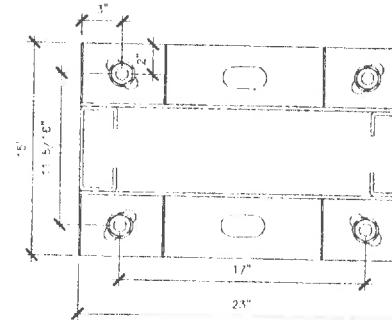


10011 PIONEER BLVD.
SANTA FE SPRINGS, CA. 90670
PH. (888)999-0239
FAX (888)999-0207
WWW.ARTELECOM.COM



23" w by 15" d by 84" h

102381-5 23" Zone 4 Wyle Lab tested rack at
1200 lbs unsupported at the top.



EQUIPMENT RACK FOOTPRINT

SCALE
N.T.S. 2

NOT FOR CONSTRUCTION UNLESS
LABLED AS CONSTRUCTION SET

FOR
REFERENCE
ONLY

DATE
2021/01/01
I HEREBY STATE THAT THESE PLANS
WERE PREPARED BY ME OR UNDER MY
DIREC. SUPERVISIO. AND THAT I AM A
DULY REGISTERED ENGINEER IN THE STATE OF
ALASKA.

VALDEZ GRAIN TERMINAL
SITE No. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99665
PROJECT - AK PLAN LTE
UPGRADE

SHEET 014.

EQUIPMENT
DETAILS

SHEET NUMBER

EQ3

PROPOSED 2-POST EQUIPMENT RACK DETAILS

SCALE
N.T.S.

1

DETAIL NOT USED

SCALE
N.T.S.

3

PENS PREPARED FOR
GCI
STAN HAMMELT 5001-1000
ANCHORAGE, AK 99503
PHONE: (409) 776-7888

REVISIONS
REV. DATE DESCRIPTION BY
A 12/15/20 ISSUED FOR REVIEW DH
B 12/22/20 ISSUED FOR REVIEW DH
C 02/16/21 100% COMPLETION CONSTRUCTION SET CAT

CENTRAL NOTES

STRUCTURAL SITE NOTES

STRUCTURAL NOTES

୭୮

GCI
GLOBAL CAPITAL INVESTMENT CORPORATION

100

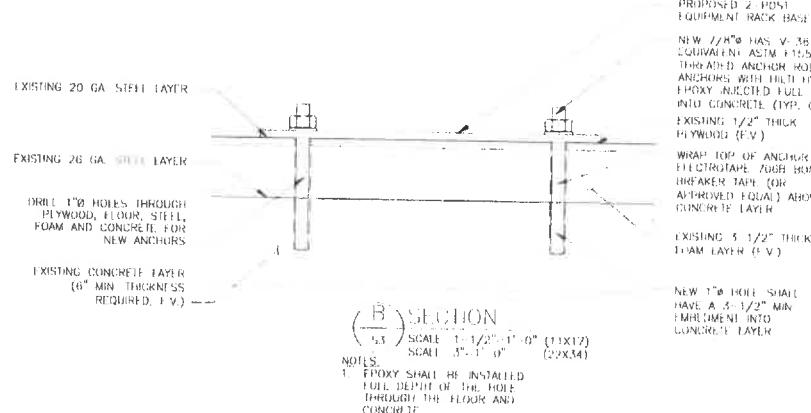
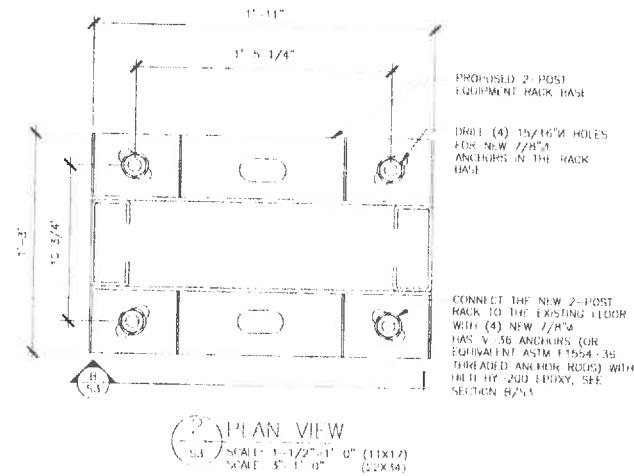
DATE: 10/20/03
I HEREBY CERTIFY THAT THE STATE OF ALASKA
AS PREPARED BY ME OR UNDER MY
SUPERVISION AND THAT I AM A
REGISTERED ENGINEER IN THE STATE OF
ALASKA.

PROJECT - AK PLAN LTE
UPGRADE

SHEET 011

STRUCTURAL NOTES

S1 NUMBER 1



SHELTER DETAILS & SECTIONS

PLANS PREPARED FOR
GCI
GENERAL CARRIER SERVICES INC.
ANCHORAGE, ALASKA
GCRFC (900) 733-7766

PLANS PREPARED BY
GPD GROUPING
5215 North 45th Street
Anchorage, Alaska 99501
50572164 Fax 343-1206
GPD JOHN: 2020/2/28 014.D1

REVISIONS
REV. D49 ISISSUE DATE 01/20
A 12/15/20 ISSUED FOR REVIEW D49
B 12/22/20 ISSUED FOR REVIEW D49
C 02/16/21 FOR DRAWINGS CONSTRUCTION SET CAT

NOT FOR CONSTRUCTION UNLESS TAINTED AS CONSTRUCTION SET



STATE OF ALASKA
GENERAL LAND OFFICE
DIVISION OF STATE LANDS
RECEIVED
12/22/2020
BY GPD GROUPING
PROJECT NO. 014.D1
FILE NO. 2020/2/28 014.D1
DATE: 12/22/2020
I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED AND DRAWN FOR USE
UNDER SUPPORTING AND CONTROLLING AN A
DULY REGISTERED PROJECT IN THE STATE OF
ALASKA.

VALDEZ GRAIN TERMINAL
SITE NO. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99666
PROJECT - AK PLANT LITE
UPGRADE

SHEET 311
SHELTER DETAILS & SECTIONS

SHEET NUMBER
S3

STRUCTURAL STEEL		
AFTER BOLTING (TABLE N5.8-3, ASCE 360-10):		
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS		
<input checked="" type="checkbox"/> CONTINUOUS <input type="checkbox"/> PERIODIC		
OTHER STEEL INSPECTIONS (SECTION N5.7, ASCE 360-10; TABLES J6-1 & J10-1, ASCE 341-10):		
STRUCTURAL STEEL ITEMS	<input type="checkbox"/> CONTINUOUS	<input checked="" type="checkbox"/> PERIODIC
ALL EXPOSED STEEL OR STEEL FRAMES SHALL BE INSPECTED PERIODICALLY FOR COMPLIANCE WITH THE DETAILS SHOWN IN THE CONSTRUCTION DOCUMENTS, SUCH AS BOLT SPACING, ANGLE OF BOLTS, LENGTH AND PROPER ASSEMBLY OF JOINT DETAILS AT EACH CONNECTION.		
ANCHOR HUGS AND OTHER ELEMENTS SUPPORTING STRUCTURAL STEEL	<input type="checkbox"/> CONTINUOUS	<input checked="" type="checkbox"/> PERIODIC
SHALL BE ON THE WORKS DURING THE FABRICATION OF ANCHOR HUGS AND OTHER ELEMENTS SUPPORTING STRUCTURAL STEEL. SHALL BE IN ACCORDANCE WITH CONSTRUCTION DOCUMENTS. VERIFY THE ANCHOR HUG TYPE AND LENGTH OF THE ANCHOR HUG ON FABRICATED CONSTRUCTION SETS AND DEPTH OF Embedment Hug to Placement of Concrete.		

CONCRETE CONSTRUCTION (IBC 1705.3 & 1705.12.1)		
POST-INSTALLED ANCHORS OR JUNCTURES		
<input type="checkbox"/> CONTINUOUS <input checked="" type="checkbox"/> PERIODIC		
ALL POST-INSTALLED ANCHORS/ANCHORS SHALL BE INSPECTED PERIODICALLY AS REQUIRED BY THE APPROVED ICC-ES REPORT.		



FABRICATORS (IBC 1704.2.5)		
<input type="checkbox"/> APPROVED FABRICATOR [YES] <input checked="" type="checkbox"/> NO <input type="checkbox"/> UNAPPROVED FABRICATOR [YES] <input type="checkbox"/> NO		
FABRICATOR'S NAME: _____ FABRICATOR'S PLANT LOCATION: _____		
REQUIRED IN PLATE: <input type="checkbox"/> STEEL CONSTRUCTION <input checked="" type="checkbox"/> CONCRETE CONSTRUCTION <input type="checkbox"/> WOOD CONSTRUCTION DESCRIPTIONS: <input type="checkbox"/> COLD-FORMED CONSTRUCTION <input type="checkbox"/> OTHER <input type="checkbox"/> OTHER		

REV	DATE	DESCRIPTION	PER
A	12/15/20	ISSUED FOR REVIEW DR	
B	12/22/20	ISSUED FOR REVIEW DRH	
C	02/16/21	FOR DRH DRH CONSTRUCTION SET	CAT

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



DATE
I HEREBY CERTIFY THAT THESE PLANS
WERE PREPARED BY ME OR UNDER MY
DIRECTIONS, AND CERTIFY THAT THEY
ARE DULY REGISTERED UNDER THE STATE OF
"ALASKA".

VALDEZ GRAIN TERMINAL
SITE No. 904
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99666
PROJECT - AK PLAN LTE
UPGRADE

SHEET TITLE
SPECIAL
INSPECTION
CHECKLIST

SHEET NUMBER
S5

MODIFICATION INSPECTION CHECKLIST	
REQUIRED	RE PORT ITEM
PRE-CONSTRUCTION	
THE CHECKLIST SERVES AS A GUIDELINE FOR THE REQUIRED CONSTRUCTION DOCUMENTS AND INSPECTIONS FOR THIS MODIFICATION.	
<input checked="" type="checkbox"/>	MI CHECKLIST DRAWING
<input checked="" type="checkbox"/>	FOR APPROVED SHOP DRAWINGS
<input checked="" type="checkbox"/>	FABRICATION INSPECTION
NA	FABRICATOR CERTIFIED WELD INSPECTION
<input checked="" type="checkbox"/>	MATERIAL TEST REPORTS (MTR)
NA	FABRICATOR NDT INSPECTION REPORT
NA	NDT OF MONOPOLE BASE PLATE
<input checked="" type="checkbox"/>	PACKING SLIPS
DURING CONSTRUCTION	
<input checked="" type="checkbox"/>	PRE-FOUR REBAR INSPECTION
NA	POST-INSTALLED REBAR AND/OR DOWEL INSPECTION
NA	CONCRETE COMP. STRENGTH & SLUMP TEST
NA	EARTHWORK LIFT & DENSITY REPORT
NA	MICROPIECE/ROCK ANCHOR
NA	HELICAL ANCHOR
<input checked="" type="checkbox"/>	POST-INSTALLED ANCHOR ROD VERIFICATION
NA	3RD PARTY FIELD CERTIFIED WELD INSPECTION
<input checked="" type="checkbox"/>	ON-SITE COLD GALVANIZING VERIFICATION
NA	TENSION TWIST & PLUMB VERIFICATIONS
<input checked="" type="checkbox"/>	GC AS-BUILT DRAWINGS
NA	BOLT PRE-TENSION VERIFICATION
POST-CONSTRUCTION	
<input checked="" type="checkbox"/>	CONSTRUCTION COMPLIANCE LETTER
NA	POST-INSTALLED ANCHOR ROD PULL TESTS
<input checked="" type="checkbox"/>	PHOTOGRAPHS
NA	FOUNDATION SEALER
NA	HOLE HOLE INSTALLATION VERIFICATION REPORT
<input checked="" type="checkbox"/>	MI INSPECTOR RELEASING OR RECORD DRAWINGS

THE MI CHECKLIST SHALL BE REVIEWED PRIOR TO THE START OF CONSTRUCTION. ALL PARTIES TO THE MODIFICATION SHALL UNDERSTAND ALL REQUIREMENTS AND INSPECTION/DOCUMENTATION THAT IS APPLICABLE TO THE SCOPE OF WORK THEY ARE PERFORMING. DRAWINGS ON THE MI CHECKLIST SHALL BE HANDED TO THE ATTENTION OF THE TOWER/STRUCTURE OWNER AND FOR SIGN OFF/RECORDED.

MODIFICATION INSPECTION NOTES

GENERAL

1. THE MI IS AN ON-SITE VISUAL AND HANDS-ON INSPECTION OF TOWER MODIFICATIONS, INCLUDING A REVIEW OF CONSTRUCTION REPORTS AND ADDITIONAL PERTINENT DOCUMENTATION PROVIDED BY THE GENERAL CONTRACTOR (GC), AS WELL AS ANY INSPECTION DOCUMENTS PROVIDED BY 3RD PARTY INSPECTORS. THE MI IS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE MODIFICATION DRAWINGS, IN ACCORDANCE WITH APPLICABLE INDUSTRY STANDARDS AND AS DESIGNED BY THE ENGINEER OF RECORD (EOR).
2. NO DOCUMENT, CODE, OR POLICY CAN ANTICIPATE EVERY SITUATION THAT MAY ARISE. ACCORDINGLY, THIS CHECKLIST IS INTENDED TO SERVE AS A SOURCE OF GUIDING PRINCIPLES IN ESTABLISHING GUIDELINES FOR MODIFICATION INSPECTION.
3. THE MI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE MODIFICATION DESIGN ITSELF, AND THE MI INSPECTOR DOES NOT TAKE OWNERSHIP OF THE MODIFICATION DESIGN. THE MI INSPECTOR SHALL INSPECT AND NOTE CONFORMANCE/INCONFORMING AND PROVIDE TO THE TOWER/STRUCTURE OWNER AND FOR EVALUATION.
4. TO ENSURE THAT THE REQUIREMENTS OF THE MODIFICATION INSPECTION ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE MI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PAYMENT IS MADE. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY. CONTACT LISTED ON THE MI SHEET SHALL BE CONTACTED IF SPECIFIC INSPECTOR CONTACT INFORMATION IS NOT KNOWN.

FAILING INSPECTION CORRECTIONS

1. IF THE MODIFICATION INSTALLATION WOULD FAIL THE MODIFICATION INSPECTION ('FAILED MODIFICATION INSPECTION'), THE GC SHALL WORK WITH MI INSPECTOR TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS
 - CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL MODIFICATION DRAWINGS AND COORDINATE A SUPPLEMENT MODIFICATION INSPECTION.
 - OR WITH TOWER OWNER'S APPROVAL, THE GC MAY WORK WITH THE ENGINEER OF RECORD TO RE-ANALYZE THE MODIFICATION/REINFORCEMENT USING THE AS-BUILT CONDITION.

SERVICE LEVEL COMMITMENT

1. THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING AN MI REPORT
 - THE GC SHALL PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY TO, TO THE MI INSPECTOR AS TO WHEN THE MI WILL BE READY FOR THE MI TO BE CONDUCTED.
 - THE GC AND MI INSPECTOR COORDINATE ONGOING THROUGHOUT THE ENTIRE PROJECT.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE SIMULTANEOUSLY FOR ANY GUY WIRE INSPECTION OR REINFORCING DRAWINGS.
 - WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND MI INSPECTOR ON-SITE DURING THE MI TO HAVE ANY MINOR DEFICIENCIES CORRECTED DURING THE INITIAL MI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE MI CAREFULLY TO ENSURE ALL CONSTRUCTION DEFICIENCIES ARE AT THEIR DISPOSAL WHEN THE MI INSPECTOR IS ON SITE.
 - IT MAY BE BENEFICIAL TO INSTALL ALL TOWER MODIFICATIONS PRIOR TO CONDUCTING THE FOUNDATION INSPECTIONS TO ALLOW THE FOUNDATION AND MODIFICATION INSPECTION(S) TO COMMENCE WITH ONE SITE VISIT.

REQUIRED PHOTOS

BETWEEN THE GC AND THE MI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE MI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE REINFORCEMENT MODIFICATION CONSTRUCTION/ECTION AND INSPECTION
 - ALL MATERIALS
 - FOUNDATION MODIFICATIONS
 - WELD PREPARATION
 - BOLT INSTALLATION
 - FINAL INSTALLED CONDITION
 - SURFACE COATING REPAIR
 - FINAL INSPECTION CONDITION
- POST-CONSTRUCTION PHOTOGRAPHS
- ANY OTHER PHOTOS DEEMED RELEVANT TO SHOW COMPLETE DETAILS OF THE MODIFICATIONS.

2. PHOTOS OF ELEVATED MODIFICATIONS TAKEN ONLY FROM THE GROUND SHALL BE CONSIDERED INADEQUATE



REV.	DATE	DESCRIPTION	BY
A	12/15/20	ISSUED FOR REVIEW DNB	
B	12/22/20	ISSUED FOR REVIEW DNB	
D	02/16/21	AS-BUILT DRAWINGS - CONSTRUCTION SET	CAT

NOT FOR CONSTRUCTION UNLESS TABLED AS CONSTRUCTION SET

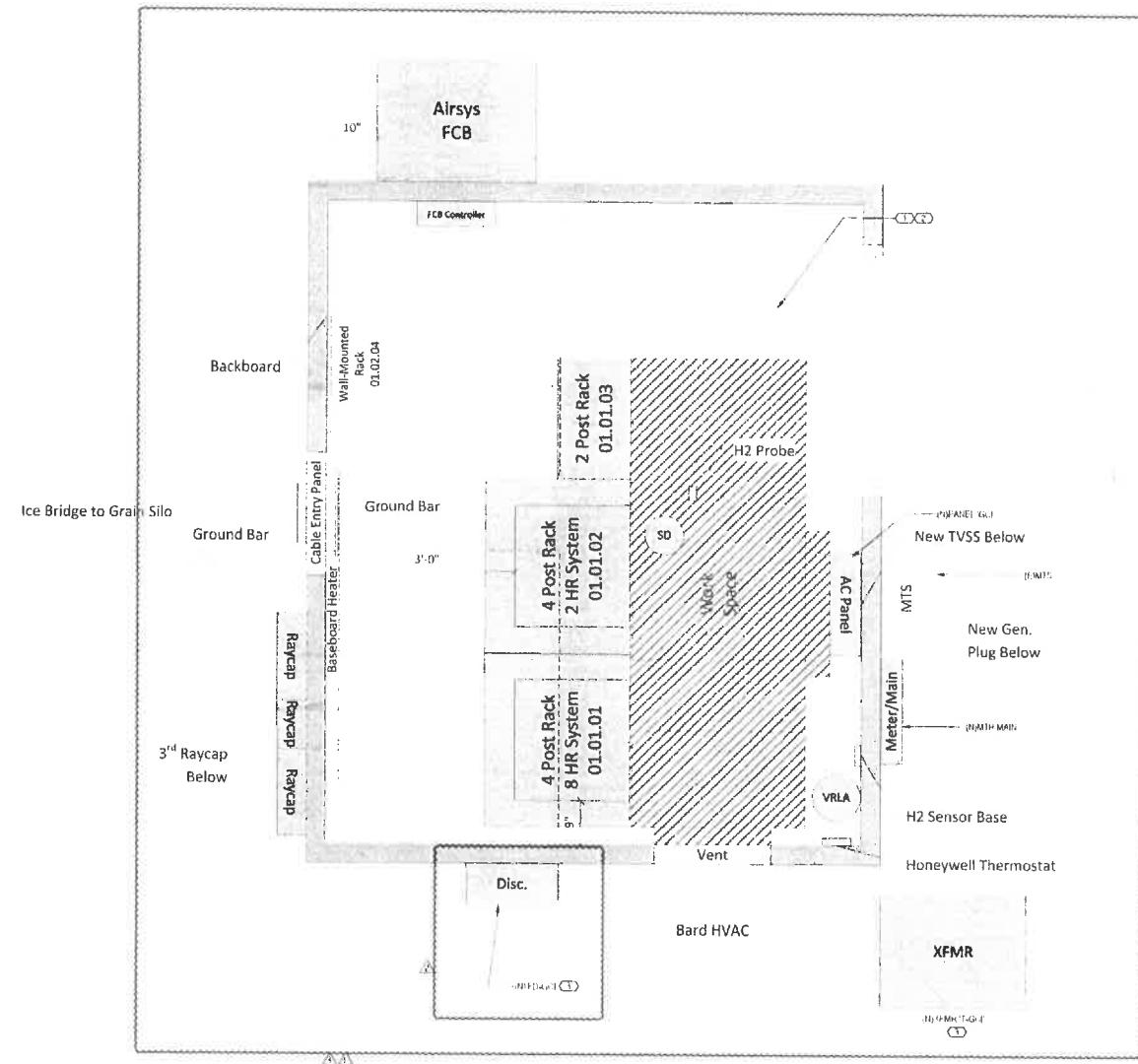


I HEREBY CERTIFY THAT THESE PLANS
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DULY REGISTERED IN THE STATE OF
"ALASKA".

VALDEZ GRAN TERMINAL
SITE NO. 604
1460 CONTAINS TERMINAL, WAY
VALDEZ, AK 99686
PROJECT: AK PLAN LTE
UPGRADE

SHEET TITLE
**MODIFICATION
INSPECTION
CHECKLIST**

SHEET NUMBER
S6



REFERENCED SHEET NOTES

REF NO

1. CONTRACTOR TO COORDINATE EXACT LOCATION OF GROWING EQUIPMENT ON SITE.
2. CONTRACTOR TO PROVIDE GROWING SYSTEM FOR NEW EQUIPMENT AND ENGINEERED CONSTRUCTION AND EQUIPMENT MISTS OBTAINED STANDARDS. SEE GROWING DETAILS ON SHEET #4 AND #402 FOR MORE INFORMATION.
3. CONTRACTOR TO COORDINATE EXACT LOCATION OF GROWING EQUIPMENT ON SITE.

4. CONSTRUCTION OF A REPRESENTATIVE PRICE INDEX

A circular notary seal for the State of Alaska. It features a five-pointed star in the center, with the text "49th STAR" written above it. The outer border contains the words "STATE OF ALASKA" at the top and "NOTARY PUBLIC" at the bottom. The center of the star contains the text "NOTARY PUBLIC". The entire seal is rendered in a dark, monochromatic color.

GCI SITE: VALDEZ GRAIN TERMINAL
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99666

REVISIONS
VER. 1 12/29/2020 - FILED
EQUIP.
VER. 2 12/31/2020 - FUSED
DISC.
VER. 3 01/09/2021 - UPDATED
BACKGROUND

SEARCHED INDEXED SERIALIZED FILED
120-34100
11/23/2020
FMM

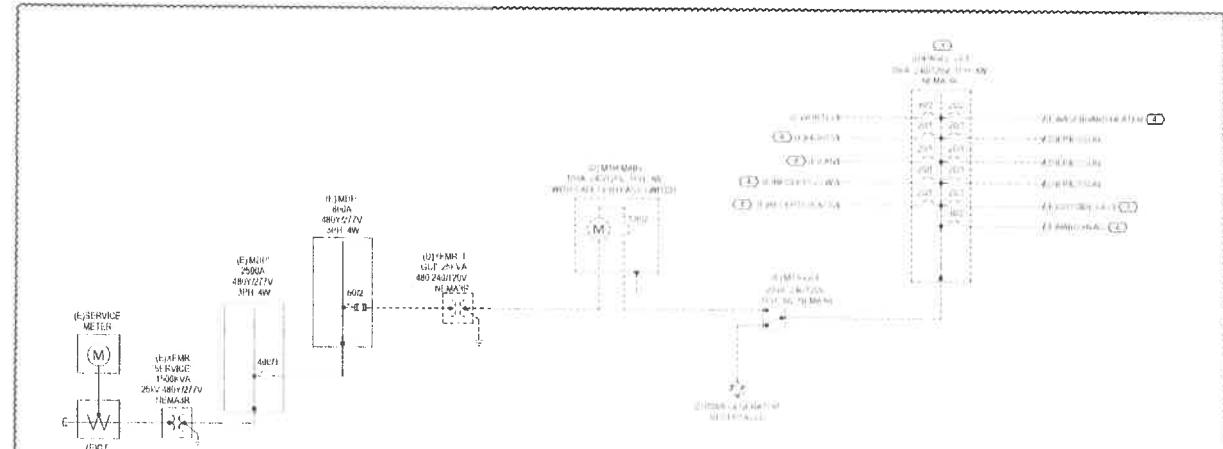
**ELECTRICAL SITE
PLAN**

30.11.05

E101

101

1000



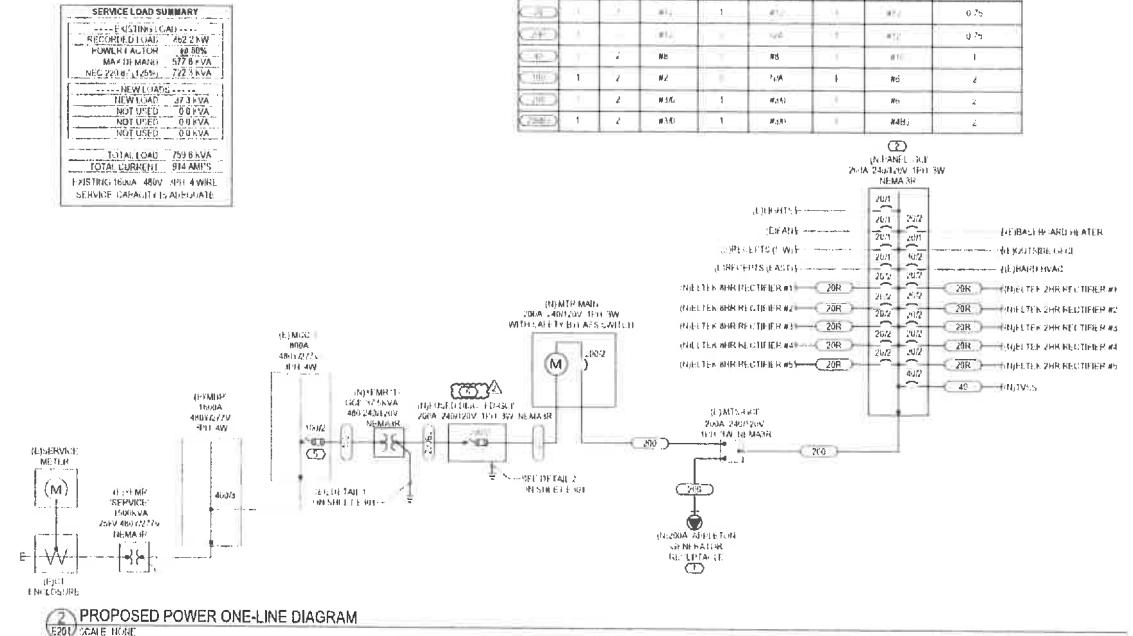
1 DEMOLITION POWER ONE-LINE DIAGRAM
E201 SCALE: 100'F

SERVICE LOAD SUMMARY

RESIDENTIAL (G)
 RECOMMENDED (A) 42.2 KW
 HOMELINK (A) 40.8 KW
 MAX (A) 517.6 VA
 NEC 2008 (A) 72.2 KW

NON-RESIDENTIAL (G)
 HOMELINK 37.3 VA
 NOT USED 0.0 VA
 NOT USED 0.0 VA
 NOT USED 0.0 VA

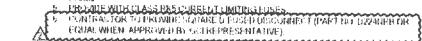
TOTAL LOAD 759.6 VA
TOTAL CURRENT 914 AMPS
 EXISTING LOAD 48000 MPH 4 WIRE
 SERVICE CAPACITY 150 AMPERE



2 PROPOSED POWER ONE-LINE DIAGRAM
E201 SCALE NONE



REF. NOTE



AK PLAN LTE
VALDEZ GRAIN TERMINAL
CONTAINER TERMINAL WAY
VALDEZ AK 99656

REVIEWERS
NAME: DE SOTO, P.
1 12/29/2020 - L11
E3200
2 12/31/2020 - FUSFL
D186

ASSUMED UTILITY SYSTEM CONFIGURATION FOR CALCULATIONS

SERVICE TRANSFORMER			
KVA		MSCA SECONDARY	
1140		LINE-LINE LINE-NEUTRAL	
5/6			31 140 31 140
FOR CALCULATION ONLY -			
AMPS		SERVICE LATERAL	FT
1140		SEA 14/400 KVA	45
EQUIPMENT ID.		MSCA	
M14-1		30 334	
M14-1		28 348	
M14-1		5 682	
MTK MAIN		8 610	
MTK-A-1		8 140	

XB NO.	120-3410-0904
DATE	11/23/2020
DRAWN	KMM
REVIEWED	EN

**ONE-LINE
DIAGRAMS, DETAILS,**

E201

IN-ANEL SCI SCHEDULE

E301 SCALE HGT

2 GROUNDING SYSTEM ONE-LINE DIAGRAM

AK PLAN LTE
GCI SITE: VALDEZ GRAIN TERMINAL
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99686



GENERAL DC GROUNDING NOTES

1. ALL GROUNDING MATERIALS AND INSTALLATION METHODS SHALL BE AS STATED IN THE SUBMITTING AND APPROVING SPECIFICATION FOR THE ELECTRICAL CONTRACTOR. SHALL BE REQUIRED TO FURNISH A COPY PRIOR TO START OF CONSTRUCTION.

2. GROUND LEADS SHALL NOT BE SPLICE.

3. METAL CONDUITS OR METAL TUBE SHALL NOT BE USED AS GROUND LEADS AND SHALL BE PROHIBITED.

4. [REDACTED] DRILLINGS INTERIOR GROUND LEADS IN PVC CONDUITS ONLY. WHERE PVC CONDUITS ARE FURNISHED IN INDOOR AIR PLENUM CULVERTS, JUG PLATE AND BUSHING, DUCT-TECH CONDUITS, WHICH ARE INSULATED, ARE THE EXCEPTION.

5. MINIMUM BEND RADII SHALL BE 10 DIAMETER FOR 1/2 IN. WIRE, AND 12 DIAMETER FOR 1/2 IN. WIRE.

6. METAL TUBE SHALL BE STRANDED COPPER WITH THINWALL INSULATION.

7. #2 AWG (TC) HOSE BE SOLID BARE, THINNED COPPER.

8. #10 THINWALL SHALL BE STRANDED COPPER WITH THINWALL INSULATION, SUITABLE FOR USE IN INSTALLATIONS.

9. #12 AWG (TC) BARE, THINNED SHALL BE 17/30 STRANDS OF SOFT ANNEALED COPPER WITH 14 AWG STRAND THINNED.

10. #16 AWG (TC) SHALL BE SUPEREX CONSTRUCTED OR 16 STRANDS OF 24-GAUGE THINNED COPPER WITH SUITABLE FOR THE ELECTRICAL THINNED.

11. #18 AWG (TC) SHALL BE STRANDED COPPER WITH THINWALL INSULATION, SUITABLE FOR USE IN TIGHT SPACING.

12. #19 AWG (TC) SHALL BE SINGLE LAYER COATED THINNED COPPER WITH THINWALL INSULATION, SUITABLE FOR USE IN TIGHT SPACING.

13. COPPER HANGERS SHALL BE PRE-ASSEMBLED IN THE FACTORY. SHALL BE THINNED COPPER, THINWALL INSULATION, AND ALLOWED BEND RADII SHALL BE ACCORDING TO THE DRAWINGS. THESE SHALL BE ACTIVATED WITH THE BOLT (TAP), HALLER (SCREW THICKNESS) OR PERFORATED SHELL. BE THINNED WITH THINNED INSULATION, SUITABLE FOR USE IN TIGHT SPACING. BOLTS THINNED INSULATION.

14. ALL HARDWARE BOLTS, NUTS, WASHERS, AND IN-LETS (WASHERS) SHALL BE #10-32 X 1/2" STEEL. INLET HARDWARE NUTS SHALL BE #8-32 (A2 WASHER) #4-40 X 1/2" WASHER (BELLEVILLE WASHER) IN THAT IN-LET.

15. WHERE COUNTRY HOLE IS MADE TO STRAIN-CHUCK OTHER THAN METAL, A THIN WASHER IS TO BE DRILLED TOUGH WASHER. METAL WASHER SHALL BE USED IN BETWEEN THE LUG AND STRAIN-CHUCK WASHER. STEEL WASHERS TOUGH WASHERS TOUGH WASHERS TOUGH WASHERS.

16. WATER PIPE CLAMPS SHALL BE CUSTOM MADE OF BRASS. CLAMP SHALL HAVE NO CONTACT WITH A MINIMUM OF 4 LINEAR INCHES OF THE PIPE CLAMP TO ACCEPT A #24 AWG (TC) 750 MCM STRANDING. STRANDED GROUND CABLES ARE NOT ACCEPTABLE.

17. ALL CONNECTIONS, INTERIOR AND EXTERIOR MADE THROUGH THE DOCUMENT SHALL BE MADE WITH THINNED AND THINNED (THINWALL INSULATION). THERE IS NO GROUT ALLOWED FOR THIS SPECIFICATION. IN-LET CONNECTIONS AND GROUND CABLES ARE NOT ACCEPTABLE.

18. LAMPS ALL WIRES (WITH BACK PLATE) ARE TO BE WHITE (BLACK WIRE) AND REWIREABLE. EXCEPT FOR FAULT INDICATOR, WHICH IS NOT REWIREABLE. IN-LET LAMPS SHALL BE VISIBLE, PULL PULLABLE SO THAT THEY CAN EASILY BE REMOVED. ALL IN-LET LAMPS SHALL BE BRIGHT. REWIREABLE LAMPS SHALL BE EASILY REMOVABLE. THE ENTIRE LENGTH OF THE LAMP OR FAULT INDICATOR.

19. ONE (1) CABLE GROUND KIT CONSTRUCTION REQUIRED IN THE FAULT INDICATOR CABLE, AND ONE (1) BARE AWG 16/2 EXTERIOR GROUNDED BAG, KIT, FURNISHED BY CONTRACTOR AND IN-LET FAULT INDICATOR CONSTRUCTION.

20. ALL GROUND LEADS SHALL BE REINFORCED WITH HARDBAND.

21. ALL GROUND WIRE CONSTRUCTION TO FAULT INDICATOR SHALL BE EXTERIOR HARDBAND TYPE BY HARDCRICK EQUALS.

22. ALL GROUND WIRE CONNECTION TO BUILDING POTS SHALL BE EXTERIOR HARDBAND (CALWELL TYPE) CONSTRUCTION OF THE LOW-VOLTAAGE EARTH-TERMINAL AS REQUIRED FOR FAULT INDICATORS.

23. INTEGRATION OF THE GROUNDING SYSTEM. THE ELECTRICAL CONTRACTOR SHALL TEST THE GROUNDING SYSTEM PER FORM TEST BY FAULT INDICATOR. THE TEST MUST BE ACCORDING TO THE TEST GUIDE FOR MEASUREMENT OF IMPEDANCE AND GROUND FAULT CHARACTERISTICS. THE TEST MUST BE CONDUCTED ON THE FAULT INDICATOR. THE TEST MUST BE CONDUCTED ON THE FAULT INDICATOR. THE REPORT SHALL BE SUBMITTED STANDING ON THE FAULT INDICATOR. LOW-VOLTAGE FAULT INDICATOR TESTS ARE NOT TO BE CONDUCTED ON THE FAULT INDICATOR. THE TEST EQUIPMENT MUST BE DEDICATED AND NOT USED FOR OTHER PURPOSES. INTEGRATION TESTS ARE TO BE CONDUCTED ON THE FAULT INDICATOR. EXCEPT WITH CURRENT CONFIGURATION ELECTRICAL CONTRACTOR SHALL SUBMIT A QUOTE TO OWNER RELATING TO THE TESTS, WHICH IS SUBJECT TO APPROVAL.

24. METAL CONDUIT AND TUBE SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH THE BONDING ETTING, OR BY BONDING ACROSS THE INSULATION WITH THINWALL COPPER WIRE. #14 AWG THINNED COPPER WIRE, LENGTH 12 FEET.

25. METAL PAGING SHAMMIE TUBE SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH THINWALL INSULATION. THINWALL INSULATION, SUITABLE FOR USE IN TIGHT SPACING. THE SHAMMIE TUBE SHALL BE BURIED AND GROUNDED WITH THE FLOORING CONTRACTOR.

26. EARTH FAULT FAULT INDICATOR SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH THINWALL INSULATION. THINWALL INSULATION, SUITABLE FOR USE IN TIGHT SPACING. THE FAULT INDICATOR SHALL BE BURIED AND GROUNDED WITH THE FLOORING CONTRACTOR.

27. ALUMINUM CONDUIT OR COPPER (CLAD) TUBE CONDUIT, SHALL NOT BE USED AS GROUNDBUS CONNECTIONS.

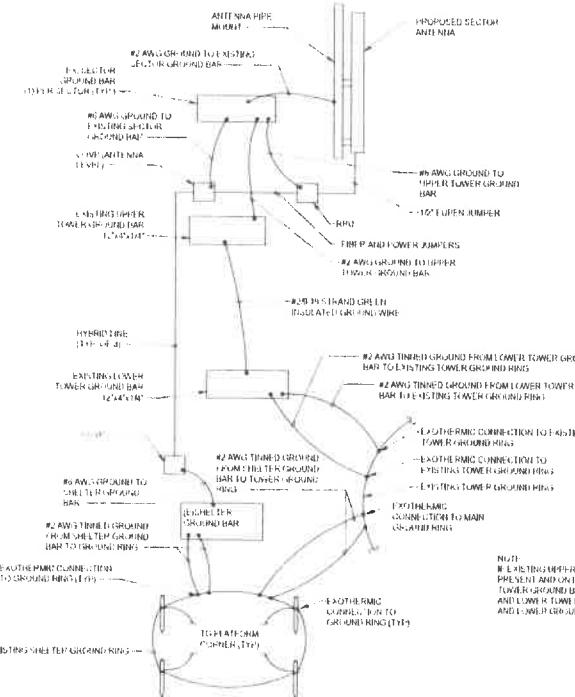
28. USE OF #14 BENDS IN THE LIGHTNING PROTECTION GROUNDBUS CONNECTIONS SHALL BE AVOIDED WHEN #12 BENDS CAN BE ADEQUATELY SUPPORTED.

29. INGELLADENS ELECTRICAL AND HEATING/ELECTRICAL METAL BOXES, FRAMES, AND SPURKINS SHALL BE BURIED TO THE GROUNDBUS CONNECTION IN THE REINFORCED CONCRETE.

30. BURIAL. METALLIC OBJECTS WITHIN 12 FT. OF MAIN GROUNDBUS WIRE, WITH THE AWG THINNED COPPER SHAMMIE CONDUITOR

GENERAL DETAIL NOTES

GROUNDING RIGID DIAMETER ASSUMED FOR INTEGRATION. CONTRACTOR TO PROVIDE GROUNDING EQUIPMENT AS NEEDED. CONTRACTOR TO VERIFY EXISTING CONFIGURATION OF THE GROUNDING SYSTEM AND MAKE NARRATIVE ENGINEER OF ANY DEGREES PAPERS.



1 PARTIAL GROUNDING RISER DIAGRAM - TYPICAL
E401 SCALE 1/4 INCH = 10 FT



2 CADWELD DETAILS

GCI SITE: VALDEZ GRAIN TERMINAL
AK PLAN LTE
1460 CONTAINER TERMINAL WAY

DESCRIPTIVE
NUMBER

FILE NO. 120-3410-0944
DATE 11/23/2020
DRAWN BY KMH
REVIEWED BY

DC GROUNDING DETAILS

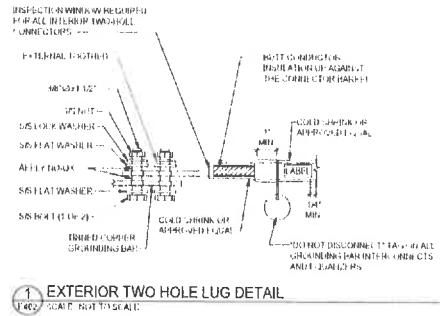
ANSWER

E401

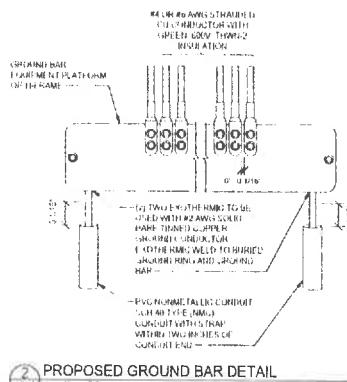
10 of 10

F401

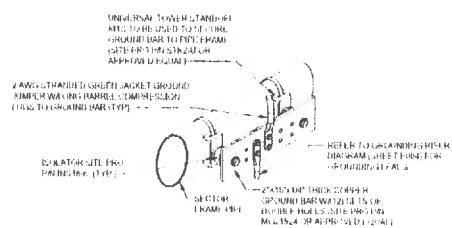
E-101



1 EXTERIOR TWO HOLE LUG DET



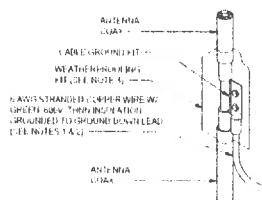
2 PROPOSED GROUND BAR DETAIL



GENERAL DETAIL NOTES

- 1 CONTRACTOR SHALL USE UNCOATED STEEL PROVIDED IN ROLLING MILL. THE MARK WILL BE REMOVED.
- 2 ALL HARDWARE FOR THE STANDS SHALL INCLUDE STAINLESS STEEL. ALL SURFACES WITH KOPROSHINE® WILL BE MATTE.
- 3 EMBRICKING AND STEELING SHALL NOT EXCEED 1000 LBS. PER LINEAL FOOT. THE STEELING AND STEEL SURFACES WITH KOPROSHINE® WILL BE MATTE.

3 TYPICAL SECTOR GROUND BAR DETAIL (ANTENNA LEVEL ONLY)



GENERAL DETAIL NOTES



4 COAX GROUNDING DETAIL



EIC ENGINEERS, INC.

ELECTR

6927 100 SEAWAY PKWY STE 200
ATLANTA GA 30316
501 343 3712
6927 647 0324
6927 106 10
WWW.EDGETEC.COM

AK PLAN LTE
GCI SITE: VALDEZ GRAIN TERMINAL
1460 CONTAINER TERMINAL WAY
VALDEZ, AK 99654

460 CONTAINER TERMINAL WAY
VALDEZ AK 99686

REVIEWERS

JOH NO	140-3410 (96)
DATE	11/23/2020
DRAWN	1 MM

**DC GROUNDING
DETAILS**

100 [100]

E402

EXHIBIT C

Modification Application Form

User: _____

Address: _____

Modification Requested: _____

Describe New or Modified Equipment: _____

Dates Requested for Completion of Modification: _____

Names of Certified Climber(s) Completing Modification: _____

Submitted Revised Exhibit B? YES/NO

Submitted \$1,500 Modification Application Fee? YES/NO

Signature: _____

Name: _____

Date: _____