

**AMENDMENT NO. 2 TO
STRATEGIC JOINT DEVELOPMENT AGREEMENT**

Amendment No. 2 to Strategic Joint Development Agreement, dated as of the final execution below (the “**Amendment**”), between the City of Long Beach, a municipal corporation (“**City**”); and Los Angeles SMSA Limited Partnership, a California limited partnership d/b/a Verizon Wireless (“**Verizon**,” and together with the City, the “**Parties**,” and each, a “**Party**”).

WHEREAS, the Parties have entered into a Strategic Joint Development Agreement, dated as of August 14, 2019 (as amended by Amendment No. 1 to Strategic Joint Development Agreement, dated as of the final execution below, the “**Existing Agreement**”); and

WHEREAS, the Parties generally desire to advance the network for the benefit of the residents and business in the City, including the DAS (defined below) and smart city initiatives; and

WHEREAS, pursuant to Section 3.2(d) of the Existing Agreement, the Parties desire to amend the Existing Agreement to set forth mutually agreeable terms for the purpose of installing a neutral host distributed antenna or similar telecommunications system (“**DAS**”) at the Long Beach Airport on the terms and subject to the conditions set forth herein.

NOW, THEREFORE, in consideration of the foregoing and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties agree as follows:

1. Definitions. Capitalized terms used and not defined in this Amendment have the respective meanings assigned to them in the Existing Agreement.

2. Amendments to the Existing Agreement.

(a) Section 3.2(d) of the Existing Agreement is hereby amended by deleting the words “which terms concerning the Long Beach Convention & Entertainment Center are provided in Exhibit E-1 attached hereto and which terms concerning the Long Beach Airport shall be negotiated to completion between the Parties in good faith within ninety (90) days after the agreement on the terms concerning the Long Beach Convention & Entertainment Center are fully executed” from such Section and substituting in lieu thereof the words “which terms concerning the Long Beach Convention & Entertainment Center are provided in Exhibit E-1 attached hereto and which terms concerning the Long Beach Airport are provided in Exhibit E-2 attached hereto.”

(b) The Exhibits of the Existing Agreement are hereby amended by inserting Exhibit E-2 attached to this Amendment immediately following Exhibit E-1 of the Existing Agreement.

3. Date of Effectiveness; Limited Effect. This Amendment will be deemed effective as of March 16, 2023 (the “**Effective Date of Exhibit E-2**”). Except as expressly provided in this

Amendment, all of the terms and provisions of the Existing Agreement are and will remain in full force and effect and are hereby ratified and confirmed by the Parties. Without limiting the generality of the foregoing, the amendments contained herein will not be construed as an amendment to or waiver of any other provision of the Existing Agreement or as a waiver of or consent to any further or future action on the part of either Party that would require the waiver or consent of the other Party. On and after the Effective Date of Exhibit E-2, each reference in the Existing Agreement to "this Agreement," "the Agreement," "hereunder," "hereof," "herein," or words of like import, and each reference to the Existing Agreement in any other agreements, documents, or instruments executed and delivered pursuant to, or in connection with, the Existing Agreement, will mean and be a reference to the Existing Agreement as amended by this Amendment.

4. Counterparts. This Amendment may be executed in counterparts, each of which is deemed an original, but all of which constitute one and the same agreement. Delivery of an executed counterpart of this Amendment electronically or by facsimile shall be effective as delivery of an original executed counterpart of this Amendment.

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the dates written below.

**LOS ANGELES SMSA LIMITED PARTNERSHIP D/B/A VERIZON WIRELESS
BY ITS GENERAL PARTNER: AIRTOUCH CELLULAR INC.**

By _____
Name:
Title:

Date: _____

THE CITY OF LONG BEACH

By Linda J. Tatum
Name: LINDA F. TATUM
Title: ASST. CITY MANAGER

Date: 3/17/2023

**EXECUTED PURSUANT
TO SECTION 301 OF
THE CITY CHARTER.**

APPROVED AS TO FORM

By _____
Name:
Title:

Date: _____

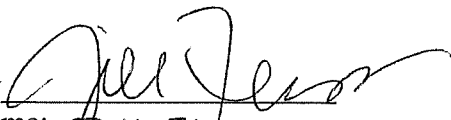
APPROVED AS TO FORM
3.17.2023
DAWN MCINTOSH, City Attorney
By [Signature]
RICHARD ANTHONY
PRINCIPAL DEPUTY CITY ATTORNEY

Amendment, all of the terms and provisions of the Existing Agreement are and will remain in full force and effect and are hereby ratified and confirmed by the Parties. Without limiting the generality of the foregoing, the amendments contained herein will not be construed as an amendment to or waiver of any other provision of the Existing Agreement or as a waiver of or consent to any further or future action on the part of either Party that would require the waiver or consent of the other Party. On and after the Effective Date of Exhibit E-2, each reference in the Existing Agreement to "this Agreement," "the Agreement," "hereunder," "hereof," "herein," or words of like import, and each reference to the Existing Agreement in any other agreements, documents, or instruments executed and delivered pursuant to, or in connection with, the Existing Agreement, will mean and be a reference to the Existing Agreement as amended by this Amendment.

4. Counterparts. This Amendment may be executed in counterparts, each of which is deemed an original, but all of which constitute one and the same agreement. Delivery of an executed counterpart of this Amendment electronically or by facsimile shall be effective as delivery of an original executed counterpart of this Amendment.

IN WITNESS WHEREOF, the Parties have executed this Amendment as of the dates written below.

LOS ANGELES SMSA LIMITED PARTNERSHIP, A CALIFORNIA LIMITED PARTNERSHIP D/B/A VERIZON WIRELESS
BY: AIRTOUCH CELLULAR INC., ITS GENERAL PARTNER

By 
Name: Bill Flynn
Title: RE Manager
SEN. 142

Date: 3/23/2003

THE CITY OF LONG BEACH

By _____
Name:
Title:

Date: _____

APPROVED AS TO FORM

By _____
Name:
Title:

Date: _____

EXHIBIT E-2

Long Beach Airport DAS

This Exhibit E-2 sets forth the mutually agreeable terms pursuant to which the Parties hereby enter into a lease agreement (“**Venue Lease**”) for Verizon to install, own and operate a neutral host DAS or other telecommunications system as further described herein (“**DAS**” or “**Lessee Equipment**”) at the Long Beach Airport located at 4100 E. Donald Douglas Drive, Long Beach, CA 90808 (the “**Property**”). The City of Long Beach is referred to herein as “**Lessor**” and Los Angeles SMSA Limited Partnership, a California limited partnership d/b/a Verizon Wireless and Affiliates is referred to herein as “**Lessee.**”

1. Lease. Lessor hereby leases to Lessee the Premises (as defined below) to place and use Lessee Equipment. The Lessee Equipment shall be for the exclusive use of Lessee and other CMRS Providers (as defined below). Subject to the terms and conditions of this Venue Lease, Lessee shall promptly install and continuously operate the Lessee Equipment on the Premises, and from time to time may replace, modify, augment, increase, and expand Lessee Equipment and the Premises for the purpose of providing or enhancing “commercial mobile radio service” as such term is defined under federal law at 47 C.F.R. §203.3 (“**CMRS**”), including, without limitation, the amount and locations of antennas, cabling or equipment, communication lines between the Property’s main point of service entry and hub locations and equipment rooms, and electrical lines from the main feed, provided that any new locations shall be subject to Lessor’s approval, which approval shall not be unreasonably withheld. Lessee shall be excused from its obligations to promptly install and continuously operate the Lessee Equipment (as provided in the immediately preceding sentence) during such reasonable time periods when the Lessee Equipment is not installed or operational, as the case may be, due to: maintenance, repair, testing, or upgrade activities, actions of Lessor, its contractors or agents, strikes, lockouts, labor disputes, acts of God, inability to obtain labor, materials or reasonable substitutes therefor, failure of power, water, fuel, electricity or other utilities, governmental restrictions, regulations or controls, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, and other causes beyond the reasonable control of Lessee. The Parties acknowledge and agree that the installation of the DAS may be delayed due the construction of certain structures (including a ticketing lobby, CBIS buildings, baggage claim, and historic terminal buildings), which structures are not yet complete. The term “**Premises**” means the physical space occupied by the facilities generally described on Appendix A, which may be amended from time to time in writing by duly authorized representatives of the Lessor and the Lessee, which amendments may be approved or denied in the reasonable discretion of the Lessor. Lessor and Lessee shall collaborate with one-another, each in good faith, to identify additional space if needed for the purposes contemplated in this Venue Lease; to wit, the provision of telecommunications services to the Property through the Lessee Equipment to be installed on the Premises. The Premises shall be used by Lessee solely for the installation and operation of the Lessee Equipment, which shall consist of microcell(s), rerad(s) or other similar or comparable in-building radio-distribution devices, together with cables, fibers or the equivalent connecting such equipment, including conduit. Under no circumstances shall Lessee’s use of the Premises and Lessee Equipment impair or impede the reasonable and customary use of the Property by Lessor or its invitees, tenants, or members of the public. Subject to Lessor’s prior written approval, which may be conditioned on

the pass-through of rent to be paid by the CMRS Provider(s) less any amount(s) that compensate Lessee for costs or expenses associated with the DAS, Lessee shall make a good faith attempt after the construction of the DAS to sublease or license the Premises or portions thereof, or the Lessee Equipment or portions thereof, to other Federal Communications Commission (“FCC”)-authorized providers of CMRS (each, a “**CMRS Provider**”) for the sole and limited purpose of accessing and using portions of the Lessee Equipment and to provide wireless communications using frequencies licensed from the FCC to CMRS Providers.

A. Exclusivity. Except as provided in the immediately preceding sentence, Lessor will not, for the initial twenty (20) years of the Term, directly or indirectly grant to any third party the right to use of any portion of the Property for any reason to provide wireless communications using frequencies licensed from the FCC to CMRS Providers, provided that: (i) the Neutral Elements of the DAS do not become obsolete during the Term; and (ii) Lessee fails to replace and upgrade the obsolete equipment within ninety (90) days after notice thereof from Lessor to Lessee. The “**Neutral Elements**” of the DAS means the radio communications cabinets, power supplies, antennas, radio interface units, signal conditioners, including DAS interface trays with test ports and variable hard forward and reverse link attenuation, remote hub amplifier cards and other related equipment, together with any other items commonly used to create a “neutral host” system and are used by the other CMRS Providers.

B. Right of First Refusal. Subject to Section 1(A) above, if Lessor decides to grant to any third party the right to use of any portion of the Property for any reason to provide wireless communications using frequencies licensed from the FCC to CMRS Providers (a “**Proposed Third Party Lease**”), Lessee shall have a right of first refusal to lease the Property in accordance with this Section 1(B), and Lessor shall not consummate the transaction unless Lessor shall first deliver to Lessee a notice (the “**First Refusal Notice**”) setting forth: (a) the identity of the proposed lessee (the “**Proposed Lessee**”); (b) each of the material financial terms of the proposed transaction (the “**Proposed Terms**”); and (c) the proposed effective date of the Proposed Third Party Lease (the “**Transaction Date**”). Lessee shall, for the ninety (90) day period commencing upon receipt of such First Refusal Notice (the “**ROFR Response Period**”), have the exclusive right to lease the Property on the terms set forth in such First Refusal Notice, by so notifying Lessor before 11:59 p.m. on the last day of the ROFR Response Period, whereupon Lessee shall be bound to lease from Lessor, and Lessor shall be bound to lease to Lessee, the Property on the Potential Terms. Lessor and Lessee shall promptly execute a lease agreement to lease the Property to Lessee on the Proposed Terms and upon other terms typical to telecommunications lease transactions in Los Angeles County, State of California.

2. Construction, Installation, Maintenance and Interference. All construction, installation and maintenance of the Lessee Equipment on the Premises shall be performed by Lessee or its contractors in a safe manner consistent with current industry engineering and construction standards and practices, lien-free. Lessee, with Lessor’s reasonable cooperation as or if needed, shall obtain any required governmental and quasi-governmental permits, licenses, approvals, and authorizations for the Lessee Equipment at the Premises. Lessee agrees to only install radio equipment of the type and frequency that will not cause measurable interference to the lawfully operating equipment of Lessor or other tenants of the Property existing as of the date of this Venue Lease. Should the Lessee Equipment cause measurable interference with other lawfully operating

equipment, and provided Lessor gives written notice, Lessee will promptly take all steps necessary to correct and eliminate the interference. Interference will be “promptly” addressed if it is remedied within five business days if not related to emergency services or essential governmental communications. Interference relating to emergency services or essential governmental communications must be immediately addressed to the satisfaction of Lessor, and if it is not then the DAS service must be discontinued until the interference is remedied. Lessor agrees that it and/or any other tenant of the Property (current or future) will install only such radio equipment that is of the type and frequency that will not unlawfully interfere with (i) the existing equipment of Lessee or other CMRS Provider, or (ii) future equipment of Lessee or other CMRS Provider to the extent such equipment is reasonably necessary for the operation of the DAS; provided that in either instance Lessor and its tenants may use such equipment or frequencies if required to do so by a regulatory authority. Should Lessor’s or another tenant’s equipment (installed after the Effective Date or unlawfully operating) cause measurable interference with the Lessee Equipment, and provided Lessee gives written notice to Lessor of it, Lessor will take all lawful steps reasonably necessary to correct and eliminate the interference, including causing other tenants of the Property causing such interference to correct and eliminate the interference, provided that such steps taken to eliminate interference caused by other tenants shall be at Lessee’s cost. The parties acknowledge that there will not be an adequate remedy at law for non-compliance with the provisions of this paragraph and therefore, either party shall have the right to specifically enforce the provisions of this paragraph in a court of competent jurisdiction.

3. Power. Lessor will supply electrical power in quality, quantity, and levels currently available at the Property, and customary for the operation of the Lessee Equipment, at Lessee’s cost for the power consumed by Lessee Equipment. Notwithstanding the foregoing, no interruption or discontinuance of such electrical power to the Property will render Lessor liable to Lessee for damages or relieve Lessee of any of its obligations hereunder.

4. Ownership and Control. Lessor and Lessee agree that the Lessee Equipment shall be and remain the property of Lessee under all circumstances, under Lessee’s exclusive control, free and clear of any liens or encumbrances, and shall be deemed to be and remain personal property and not part of the real estate on which the same are located. Lessor shall have no obligation with respect to the maintenance, repair or replacement of the Lessee Equipment, which shall be done solely by or on behalf of Lessee and/or other CMRS Providers. Lessee shall have the right to make any required connections and/or attachments to the DAS in order to allow Lessee to monitor the DAS, including summary alarm notification in the event of a DAS failure, from outside of the Premises via Lessee’s infrastructure (“**Monitoring Equipment**”); provided, however, that Lessee’s Monitoring Equipment shall not impair or impede security or communications systems of Lessor.

5. Coverage Area. The DAS shall provide coverage in the area shown on Appendix B in accordance with commercially reasonable industry standards for coverage provided by similar DAS projects. The design, construction, equipment, installation, maintenance, repair and upgrade of the DAS shall be Lessee’s sole cost. Lessee shall not be charged rent in connection with this Venue Lease.

6. Access. Lessor agrees to provide Lessee, its employees, contractors and agents access to the Premises twenty-four (24) hours a day, seven (7) days a week for the purpose of design, construction, installation, upgrading, maintenance and repair of the Lessee Equipment. Notwithstanding the foregoing, (i) other than the areas described as the "C-RAN LEASE AREA" and the "EQUIPMENT LEASE AREA" on Appendix A, Lessee may only access the Premises at times when no municipal, commercial or political events are occurring at the Property, unless otherwise agreed to by Lessor or emergency circumstances require access outside of normal business hours, and (ii) Lessor may restrict access to all or any portion of the Property or the Premises for a period not to exceed two weeks, if and as necessary to meet the security or other needs of an airport use or user, provided that Lessor shall make good faith efforts to provide access during such period in the event of an emergency. Lessor and Lessee shall collaborate on emergency access protocols to address needs relating to the maintenance and repair of the Lessee Equipment that arise during and outside of normal business hours.

7. Term; Default; Termination. The term of this Venue Lease shall be twenty (20) years from the Effective Date of this Exhibit E-2 with four (4) automatic renewal terms of five (5) years each ("**Term**"), unless Lessee terminates it at the end of the then current term by giving Lessor written notice of intent to terminate at least six (6) months prior to the end of the then current term. Upon any termination, Lessee shall remove the Lessee Equipment and repair or restore any damage to the Premises and/or the Property resulting therefrom, normal wear and tear excepted.

8. Indemnification, Insurance, Waiver of Damages.

A. Lessee shall defend, indemnify, and hold harmless the Lessor, its Council, each member thereof, present and future, its officers, agents, and employees from and against any and all demands, claims, causes of action, liability, loss, liens, damage, costs, and expenses (including reasonable attorney's fees) arising from or in any way connected or alleged to be connected with this Venue Lease, work performed by or on behalf of Lessee pursuant to this Venue Lease, from any act or omission, willful misconduct, or negligence (active or passive) by or alleged to be by Lessee, its employees, agents, invitees, contractors, or subcontractors, either as a sole or contributory cause, sustained by any person or entity (including employees or representatives of Lessor or Lessee) in connection with Lessee's operation of the Lessee Equipment. The foregoing shall not apply to claims or causes of action to the extent caused by the negligence or willful misconduct of the Lessor, its Council, any member thereof, present and future, or its officers, agents, or employees.

Except as set forth in the preceding paragraph, whether the cause of any damage, loss or liability is insurable, insured or not insured, foreseen or unforeseen, in no event shall either Party be responsible or liable to the other Party for anticipatory profits or any indirect, special, incidental or consequential damages of any kind or nature arising directly or indirectly in connection with the construction, use or operation of the Lessee Equipment on the Premises or the exercise of any rights related thereto, whether based on an action or claim in contract or tort, including negligence, strict liability or otherwise.

B. Prior to any tests or construction by Lessee and in partial performance of Lessee's obligations hereunder, Lessee shall procure and maintain the following insurance coverages at Lessee's sole expense for the duration of this Venue Lease and any extensions, renewals, or holding over thereof, from insurance companies admitted to write insurance in the State of California or from non-admitted insurers that are on California's List of Approved Surplus Lines Insurers (LASLI) and that have a minimum rating of or equivalent to A:VIII by A.M. Best Company:

Commercial General Liability equivalent in coverage scope to Insurance Services Office, Inc. (ISO) form or its equivalent in an amount of Five Million Dollars (\$5,000,000) per occurrence and Five Million Dollars (\$5,000,000) general aggregate. This insurance shall include coverage for products and completed operations liability, contractual liability, independent contractors, and cross liability protection. This insurance shall include Lessor, and its officials, and employees as additional insureds as their interest may appear under this Venue Lease by blanket additional insured endorsement equivalent in coverage scope to ISO form CG and to waive the insurer's rights of subrogation against Lessor, and its officials, employees, and agents.

"All Risk" Property, including debris removal, covering the full replacement value of Lessee's improvements constructed on or about the Premises.

Upon receipt of notice from its insurer(s), Lessee shall provide Lessor thirty (30) days' prior written notice of cancellation and Lessee's policies shall be primary and not contributing to any other insurance or self-insurance maintained by Lessor, or its officials, and employees.

Lessee shall require any contractors or subcontractors to procure and maintain substantially the same insurance required of Lessee herein.

Upon the full execution of this Venue Lease, Lessee shall deliver to Lessor certificates of insurance and blanket additional insured endorsements evidencing the coverage required by this Venue Lease, including the certificates and endorsements of any of Lessee's contractors and subcontractors, for approval as to sufficiency and form. The certificates for each insurance policy shall contain the original signatures of an authorized representative of the insurer(s). Lessee shall provide Lessor with copies of certificates of insurance and endorsements for renewal policies within thirty (30) days of policy termination.

Such insurance as required herein shall not be deemed to limit Lessee's liability relating to performance under this Venue Lease. The procuring of insurance shall not be construed as a limitation on liability or as full performance of the indemnification and hold harmless provisions of this Venue Lease.

At the beginning of each renewal Term and, once every five years hereafter, in the event this Venue Lease extends beyond the four additional terms, the Lessor's Risk Manager shall have the right, upon prior written notice to, review and acceptance by Lessee, to increase the scope or limits of insurance required in this Venue Lease.

Any modification or waiver of the insurance requirements herein shall be made only with the written approval of Lessor's Risk Manager or designee.

9. Condition of Property. Lessee acknowledges that certain portions of the Premises contain asbestos, as more particularly described in that certain Asbestos Survey Report dated December 27, 2018 prepared by Titan Environmental Solutions (the "**Report**"). Lessor shall provide Lessee with a copy of the Report and Lessee shall install the Lessee Equipment in such a manner as to avoid the areas containing asbestos as disclosed by the Report. Lessor otherwise represents, warrants and covenants that no lead paint, asbestos or other hazardous substance, as defined by any applicable state, federal or local law or regulation, is present at the Premises; and Lessor has obtained all required consents or approvals from any landlord, mortgagee or other person or entity having an interest therein.

10. Assignment. This Venue Lease may be assigned by Lessee to its principal, affiliates, subsidiaries or any entity which acquires all or substantially all of its assets in the applicable Federal Communications Commission license area by reason of a merger, acquisition or other business reorganization without the consent of the other party. This Venue Lease may be assigned by Lessor without the consent of Lessee. Any other sale, assignment or transfer by Lessee must be with the written consent of Lessor, such consent not to be unreasonably withheld.

11. Notices and Contacts. All notices hereunder must be in writing and shall be sent certified mail, return receipt requested, to Lessor to the attention of the Airport Director – Long Beach Airport at 4100 E Donald Douglas Drive, 2nd Floor, Long Beach, California 90808, and to Lessee at 180 Washington Valley Road, Bedminster, New Jersey 07921, Attention: Network Real Estate.

12. Miscellaneous. This Venue Lease contains all agreements, promises and understandings between Lessor and Lessee regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either Lessor or Lessee in any dispute, controversy or proceeding. This Venue Lease may not be amended or varied except in a writing signed by all parties. This Venue Lease shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Venue Lease or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. This Venue Lease and the performance thereof shall be governed interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules.

APPENDIX A
PREMISES
AND GENERAL DESCRIPTION OF DAS COMPONENTS AND DESIGN PRINCIPLES

See Attached.

Notes:

1. THIS APPENDIX MAY BE REPLACED BY CONSTRUCTION OR OTHER DRAWINGS OF THE PREMISES ONCE RECEIVED BY LESSEE, AND TRANSMITTED TO AND APPROVED BY LESSOR.
2. THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANY ANTENNAS AND EQUIPMENT ARE ILLUSTRATIVE ONLY. SUBJECT TO THE PRIOR APPROVAL OF LESSOR, THE ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

VERIZON WIRELESS SCOPE OF WORK AT LONG BEACH AIRPORT

PHASE 1

Proposed Scope of Work to be completed by Verizon Wireless at Long Beach Municipal Airport

Locations:

Historic Concourse, North Concourse, Rose Garden Court, South Concourse

Antennas:

Verizon shall install (8) panel antennas mounted to the wall near the ceiling at (8) separate locations throughout the airport. The antennas shall be located in (3) locations in the North Concourse (3) locations in the Rose Garden Court and (2) locations in the South Concourse. The antennas shall be painted to match the existing ceiling colors.

There will also be (1) GPS antenna mounted on the roof of the Historic Concourse.

Conduit:

All antennas shall be connected by new coaxial cables traveling in new conduit along the ceiling to three separate Radio Equipment Backboards mounted at the low roof exterior wall along the north and south Concourses. Each Radio Backboard shall connect with new hybrid cables (fiber and low voltage power) in new conduit running along the roof to a galvanized metal roof penetration (doghouse) over the Verizon IDF closet located in the North Concourse Data Room. This IDF closet will be connected with new 7x144 strands fiber using existing airport conduit to Verizon's Head End Equipment Room located in the Historic Concourse Basement. The Head End Equipment room will have power provided from the airport switch gear located in the Historic Concourse Basement traveling in new conduit along the ceiling. The Head End Equipment room shall also have a separate dedicated MPOE fiber connection (for backhaul) traveling in new conduit along the ceiling to be y cast into an existing conduit (that is abandoned) and is traveling outside the building to a vault located by the passenger drop off area. The vault shall be fed using Verizon fiber and existing airport underground conduits from the property line at Lakewood Blvd.

The GPS antenna on the Historic Concourse roof shall connect with coaxial cable inside new conduit down an existing shaft to the Historic Concourse Basement and along the ceiling to the Verizon Head End Equipment room.

Radio Equipment Backboards:

The Radio Equipment Backboards are located outside between the Antennas and the IDF Closet. They consist of wall mounted, exterior plywood backboards where radios and assorted connections are mounted and conduits terminate. They are located in (3) separate locations along the low roof of the North Concourse (2 locations) and South Concourse (1 location)

IDF Closet:

Verizon's IDF closet at the North Concourse is located between the Radio Equipment Backboard and the Head End Equipment room and shall consist of the installation of one new electrical equipment rack in the North Concourse Data Room. The electrical rack will contain Verizon equipment that receives the conduit mentioned above feeding through new conduit at the ceiling and then departing through existing conduits at the floor to the Verizon Head End. The IDF closet Equipment is provided power from an adjacent airport power panel via a Shark sub meter.

Head End Equipment room:

Verizon's Head End Equipment room is located inside the Historic Concourse Basement and consists of equipment contained inside premanufactured cabinets. There will be power and fiber connections provided from conduits mentioned above. The power is coming from airport switchgear also located inside the Historic Concourse Basement via a Shark sub meter to a panel inside the Head End Equipment room. The fiber is coming from outside the Concourse and directly to the Head End.

End Phase 1

PHASE 2

Location:

Ticketing Building, CBIS Building, Security Screening Checkpoint Building (To follow after Phase 1)

Scope of work details to be determined, subject to the Airport's prior written reasonable approval.

PHASE 3

Location:

New Baggage Building (under Construction) (To follow Phase 2)

Scope of work details to be determined, subject to the Airport's prior written reasonable approval.

PHASE 4

Location:

Historic Concourse Remodel (Construction to start in 2023) (To follow Phase 3)

Scope of work details to be determined, subject to the Airport's prior written reasonable approval.

verizon

LONG BEACH AIRPORT - iDAS (PHASE 1)

4100 DONALD DOUGLAS DR.
LONG BEACH, CA 90808



PROJECT DESCRIPTION

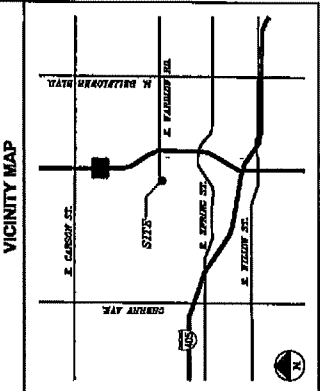
THIS PROJECT IS A VERIZON LAMINATED WIRELESS TELECOMMUNICATION FACILITY. IT WILL CONSIST OF THE FOLLOWING:
 • ONE NEW 1000 PORT WIRELESS TELECOMMUNICATION FACILITY
 • ONE NEW 500 PORT WIRELESS TELECOMMUNICATION FACILITY
 • ONE NEW VERIZON WIRELESS TELECOMMUNICATION FACILITY
 • ONE NEW VERIZON WIRELESS TELECOMMUNICATION FACILITY
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 • ONE NEW VERIZON WIRELESS TELECOMMUNICATION FACILITY

PREPARED BY:
 VERIZON COMMUNICATIONS
 1800 CALIFORNIA STREET
 LOS ANGELES, CA 90012
 TEL: 213-782-3400
 FAX: 213-782-3401
 WWW.VERIZON.COM

PROJECT TEAM

ARCHITECT:
 VERIZON COMMUNICATIONS
 1800 CALIFORNIA STREET
 LOS ANGELES, CA 90012
 TEL: 213-782-3400
 FAX: 213-782-3401
 WWW.VERIZON.COM

ENGINEER:
 VERIZON COMMUNICATIONS
 1800 CALIFORNIA STREET
 LOS ANGELES, CA 90012
 TEL: 213-782-3400
 FAX: 213-782-3401
 WWW.VERIZON.COM



DRIVING DIRECTIONS

- FROM VERIZON OFFICE
- WEST ON WEST WASHINGTON TO WEST BROADWAY
- TURN RIGHT ONTO WEST BROADWAY
- WEST ON WEST BROADWAY TO WEST WASHINGTON
- WEST ON WEST WASHINGTON TO WEST WASHINGTON BLVD TOWARD WEST WASHINGTON BLVD TOWARD WEST WASHINGTON BLVD
- WEST ON WEST WASHINGTON BLVD TO WEST WASHINGTON BLVD
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- WEST ON WEST WASHINGTON BLVD TO WEST WASHINGTON BLVD
- WEST ON WEST WASHINGTON BLVD TO WEST WASHINGTON BLVD

PROJECT SUMMARY

APPLICANT/OWNER:
 VERIZON COMMUNICATIONS
 1800 CALIFORNIA STREET
 LOS ANGELES, CA 90012
 TEL: 213-782-3400
 FAX: 213-782-3401
 WWW.VERIZON.COM

PROPERTY OWNER:
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808
 TEL: 562-433-0000
 FAX: 562-433-0001
 WWW.VERIZON.COM

GENERAL CONTRACTOR:
 VERIZON COMMUNICATIONS
 1800 CALIFORNIA STREET
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 FAX: 213-782-3401
 WWW.VERIZON.COM

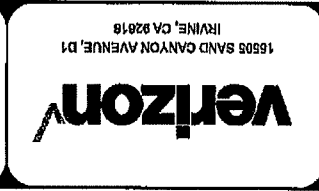
CONSTRUCTION INFORMATION:
 LOCAL PERMITS REQUIRED
 PROJECT SCHEDULE: 18 - FULLY SCHEDULED
 TYPE OF CONSTRUCTION: PERMITS - PLANNED DEVELOPMENT
 CURRENT ZONING: MDP100
 ADA COMPLIANCE: YES

GENERAL CONTRACTOR NOTES

READ THESE REMARKS CAREFULLY. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE TIME AND MONEY EXPENSES OF THIS PROJECT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE TIME AND MONEY EXPENSES OF THIS PROJECT. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE TIME AND MONEY EXPENSES OF THIS PROJECT.

- ### CODE COMPLIANCE
- 2018 CALIFORNIA BUILDING CODE
 - 2018 CALIFORNIA FIRE CODE
 - 2018 CALIFORNIA ELECTRICAL CODE
 - 2018 CALIFORNIA MECHANICAL CODE
 - 2018 CALIFORNIA PLUMBING CODE
 - 2018 CALIFORNIA SAFETY CODE
 - 2018 CALIFORNIA WELDERING CODE
 - 2018 CALIFORNIA WOOD PRESERVATION CODE
 - 2018 CALIFORNIA WOOD PRESERVATION CODE
 - 2018 CALIFORNIA WOOD PRESERVATION CODE

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|-----|------------|-------------------|----|
| 0 | 1 | 07/11/2024 | PROJECT SUBMITTAL | BM |
| 1 | 1 | 07/11/2024 | PERMITS | BM |
| 2 | 1 | 07/11/2024 | PERMITS | BM |
| 3 | 1 | 07/11/2024 | PERMITS | BM |
| 4 | 1 | 07/11/2024 | PERMITS | BM |
| 5 | 1 | 07/11/2024 | PERMITS | BM |



LONG BEACH AIRPORT - iDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

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| SHEET TITLE | |
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| SHEET | DESCRIPTION | REV |
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| T-1 | TITLE SHEET | 0 |
| T-2 | GENERAL NOTES | 0 |
| T-3 | GENERAL NOTES | 0 |
| T-4 | MEASUREMENTS & LEGEND | 0 |
| T-5 | PLANNING APPROVAL | 0 |
| A-1 | GENERAL SITE PLAN | 0 |
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| A-103 | FOUNDATION PLAN (AT TERMINAL #100) | 0 |

CONSTRUCTION DRAWINGS

VERIZON SIGNATURE BLOCK

| | |
|-----------------|------|
| SUBSCRIBER | DATE |
| PROJECT MANAGER | |
| ARCHITECT | |
| ENGINEER | |
| STATE ENGINEER | |
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GENERAL NOTES & SPECIFICATIONS

SECTION 1 - General Notes

1. ALL NOTES AND SPECIFICATIONS SHALL APPLY TO ALL WORK UNLESS OTHERWISE SPECIFIED. NOTES ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE NOTES.
2. ALL CONSTRUCTION WORK AND MATERIALS INSTALLATION SHALL BE SUBJECT TO INSPECTION AND APPROVAL BY THE APPLICABLE BUILDING CODES, ORDINANCES, LAWS AND REGULATIONS.
3. NO DEVIATING FROM THE DESIGN SHOWN ON THESE DRAWINGS IS TO BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
4. CONTRACTOR SHALL RECEIVE WRITTEN PERMISSION TO PROCEED PRIOR TO STARTING CONSTRUCTION.
5. IN ALL DRAWINGS THESE PROVISIONS, DRAWINGS SHALL NOT BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS, ORDERS AND MATERIALS FABRICATION OR CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
6. CONTRACTOR SHALL VISIT THE SITE AND FIELD VERIFY ALL EXISTING SITE CONDITIONS AS THEY RELATE TO THESE DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL INFORMATION NECESSARY TO SUBMITTING BIDS, ORDERS MATERIALS FABRICATION OR CONSTRUCTION.
7. CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND INSPECTIONS REQUIRED FOR THE COMPLETION OF THIS PROJECT.
8. THE GENERAL CONTRACTOR SHALL SUPERVISE AND BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION WORK, METHODS, SEQUENCES AND FOR OBTAINING ALL NECESSARY PERMITS UNDER THIS CONTRACT.
9. DETAILS ARE INTENDED TO SHOW THE END RESULT OF THE DESIGN. OTHER MODIFICATIONS MAY BE REQUIRED TO ADDRESS UNPUBLISHED FIELD CONDITIONS AS PART OF THE SCOPE OF WORK FOR THIS PROJECT.

SECTION 2 - Site Work

PART 1 - General

1. PRIOR TO THE START OF WORK THE CONTRACTOR SHALL DEMONSTRATE THE PRESENT OF WORK TO BE PERFORMED.
2. CONTRACTOR SHALL NOTIFY THE ARCHITECT OR USA 24 HOURS PRIOR TO ANY EXCAVATION.
3. FIELD CONDITIONS AND VERIFY THE ACCURACY OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION.
4. CONTRACTOR SHALL VERIFY PROPERTY LINES, EASEMENTS, ENCUMBRANCES, UTILITIES, AND RECORD DRAWINGS AND RECORD ELECTRICAL AND TELEPHONE CABLES TO PREVENT AND NOTIFICATION AS THEY RELATE TO THESE DRAWINGS AND THIS PROJECT AND NOTIFY THE ARCHITECT AND OWNER OF ANY DISCREPANCIES AND ALL WORK SHALL CORRECT TO THE MOST CURRENT EDITION AND ANY COPIES INCORPORATED BY REFERENCE OR AMENDMENT.
5. CONTRACTOR SHALL PROVIDE FOR FIELD SAFETY FOR THE DURATION OF THE PROJECT TO INCLUDE EXISTING CORRS, EROSION CONTROL, AND ACCESS TO ALL AREAS UNDER CONSTRUCTION AND SHALL MAINTAIN A CLEAN, NEAT AND SAFE WORK ENVIRONMENT ON A DAILY BASIS.

PART 2 - Demolition

1. CONTRACTOR SHALL PROVIDE DEMOLITION AND REMOVAL OF EXISTING MATERIALS AS NECESSARY TO ALLOW FOR NEW CONSTRUCTION.
2. DEMOLITION SHALL BE CONTROLLED TO PREVENT DUST AND NOISE FROM SPREADING TO ADJACENT AREAS OF THE SITE OR BUILDINGS OR ADJACENT OPERATIONS OF ADJACENT SPACES.
3. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS, FOR REMOVAL AND APPROVAL BY THE OWNER AND LANDLORD PRIOR TO THE START OF CONSTRUCTION.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES, STRUCTURES AND SHALL REPAIR OR REPLACE ANY DAMAGED WORK OR MATERIALS WITH THE SAME QUALITY, QUANTITY AND SIZE AS EXISTING MATERIAL AND SHALL REINSTALL PROTECTION EXISTING CONSTRUCTION.
5. REMOVE DEBRIS AND GARBAGE FROM THE SITE ON A DAILY BASIS AND NOT ALLOW ACCUMULATION OF DEBRIS AND GARBAGE ON SITE.
6. CONTRACTOR SHALL PROTECT ALL EXPOSED WORK AND EXISTING MATERIALS FROM WEATHER AND SHALL REPLACE OR REPAIR ANY MATERIALS DAMAGED BY WEATHER AT CONTRACTOR'S EXPENSE. CONTRACTOR SHALL PROVIDE PROTECTIVE COVERINGS TO ALL EXPOSED WORK AND SHALL PROVIDE NON-Destructive TESTING METHODS FROM TO ANY SINKS OR CORE DRILLING AND SHALL NOTIFY THE OWNER AND ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED DESIGN.

SECTION 3 - Structural Steel

PART 1 - Structural Steel

1. ALL STEEL SHALL BE HOT DIP GALVANIZED AND PAINTED IN CONFORMANCE WITH ASTM AND SPECIFICATIONS DAMAGED STEEL SHALL BE REPLACED OR CONSTRUCTION MUST BE RESTORED OR TOUGHENED UP TO ENHANCE PROTECTION FROM WEATHER AND CORROSION.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS THEY RELATE TO THESE DRAWINGS AND BRIMS ANY DISCREPANCIES, ERRORS OR OMISSIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE FOR THE PROTECTION AND STABILITY OF EXISTING BANKS, SLOPES AND EXISTING STRUCTURES DURING EXCAVATION.
4. CONTRACTOR SHALL FOLLOW ALL REQUIRED SAFETY PROCEDURES DURING EXCAVATION.
5. EXCAVATION AND SEEDMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EXCAVATION AND ALL BENEFIT SHALL BE CONTROLLED BY THE CONTRACTOR.
6. CONTRACTOR SHALL PROVIDE EXCAVATION, SEWERAGE AND SANITATION, BACKFILL, COMPACTION, TESTING AND INSPECTIONS AND SECTIONS AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
7. GEOLOGICAL REPORT REQUIREMENTS ARE PART OF THIS PROJECT.
8. SOILS TESTING AND SPECIAL INSPECTIONS REQUIRED BY THE ARCHITECT SHALL BE LAID OUT BY A SOILS TESTING AGENCY NOTIFIED BY THE CONTRACTOR TO HAPPEN IN ADVANCE AND A COPY OF ALL REPORTS AND INSPECTIONS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT.

Foundation

1. CLEAR EXCAVATION AREA OF TREES, BRUSH, AND ORGANIC MATERIALS AND REMOVE TOPSOIL AND ORGANIC MATERIALS BELOW GRADE TO DEPTH INDICATED ON DRAWINGS OR AS NOTED OTHERWISE. ALL EXCAVATION SHALL BE COMPLETED TO A MINIMUM DRY DENSITY OR WITH CONCRETE TO UNDERSIDE OF FORMS OR SLAB.
2. CONTRACTOR SHALL OBTAIN INSPECTION OF BASE MATERIALS, FINISH SURFACE AND COMPACTION OF MATERIALS AS NOTED ON DRAWINGS AND SECTIONS AS REQUIRED BY DRAWINGS AS SOON AS POSSIBLE AFTER CONSTRUCTION.
3. COMPACT BACKFILL TO 98% OF MAXIMUM DRY DENSITY.

PART 4 - Clean up and Disposal

1. CONTRACTOR SHALL REMOVE RUBBISH, DEBRIS, AND CONTAINERS FROM SITE AND LEGALLY DISPOSE OFF SITE DAILY.
2. SEPARATE AND STOCKPILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL AND LEGALLY DISPOSE OF UNSUITABLE MATERIALS.
3. ALL PAVED AREAS SHALL BE KEPT CLEAR OF MUD, DEBRIS AND STANDING WATER.
4. CONTRACTOR SHALL COMPLY WITH STATE EROSION CONTROL REQUIREMENTS.
5. ALL SCANS AND ROTS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.
6. ALL PLANTED AREAS SHALL BE KEPT FREE OF WEEDS AND DEBRIS.

SECTION 5 - Metals

PART 1 - Structural Steel

General

1. ALL STEEL SHALL BE HOT DIP GALVANIZED AND PAINTED IN CONFORMANCE WITH ASTM AND SPECIFICATIONS DAMAGED STEEL SHALL BE REPLACED OR CONSTRUCTION MUST BE RESTORED OR TOUGHENED UP TO ENHANCE PROTECTION FROM WEATHER AND CORROSION.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AS THEY RELATE TO THESE DRAWINGS AND BRIMS ANY DISCREPANCIES, ERRORS OR OMISSIONS TO THE ATTENTION OF THE ARCHITECT PRIOR TO THE START OF CONSTRUCTION.
3. CONTRACTOR SHALL PROVIDE FOR THE PROTECTION AND STABILITY OF EXISTING BANKS, SLOPES AND EXISTING STRUCTURES DURING EXCAVATION.
4. CONTRACTOR SHALL FOLLOW ALL REQUIRED SAFETY PROCEDURES DURING EXCAVATION.
5. EXCAVATION AND SEEDMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO EXCAVATION AND ALL BENEFIT SHALL BE CONTROLLED BY THE CONTRACTOR.
6. CONTRACTOR SHALL PROVIDE EXCAVATION, SEWERAGE AND SANITATION, BACKFILL, COMPACTION, TESTING AND INSPECTIONS AND SECTIONS AS REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT.
7. GEOLOGICAL REPORT REQUIREMENTS ARE PART OF THIS PROJECT.
8. SOILS TESTING AND SPECIAL INSPECTIONS REQUIRED BY THE ARCHITECT SHALL BE LAID OUT BY A SOILS TESTING AGENCY NOTIFIED BY THE CONTRACTOR TO HAPPEN IN ADVANCE AND A COPY OF ALL REPORTS AND INSPECTIONS SHALL BE PROVIDED TO THE OWNER AND ARCHITECT.

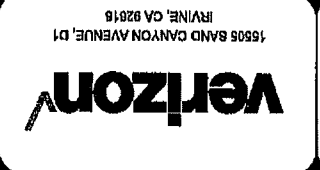
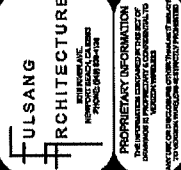
Materials

1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM SPECIFICATIONS:
 - A. A36 STEEL
 - B. A572 GRADE 50
 - C. A575 GRADE 50
 - D. A578 GRADE 50
 - E. A588 GRADE 50
 - F. CONNECTION BOLTS
 - G. ANCHOR BOLTS
 - H. WELDS
 - I. WELDED TUBES
 - J. WELDED TUBES
 - K. WELDED TUBES
 - L. WELDED TUBES
 - M. WELDED TUBES
 - N. WELDED TUBES
 - O. WELDED TUBES
 - P. WELDED TUBES
 - Q. WELDED TUBES
 - R. WELDED TUBES
 - S. WELDED TUBES
 - T. WELDED TUBES
 - U. WELDED TUBES
 - V. WELDED TUBES
 - W. WELDED TUBES
 - X. WELDED TUBES
 - Y. WELDED TUBES
 - Z. WELDED TUBES
2. STEEL TO STEEL BEARING-TYPE CONNECTIONS SHALL BE GALVANIZED 547 DIA ASTM AISC BOLTS MINIMUM UNLESS NOTED OTHERWISE WITH 20 BOLTS MINIMUM AT EACH CONNECTION UNLESS NOTED OTHERWISE.
3. ALL WELDS SHALL BE WELDED BY USING THE "TURN-OF-WAY" METHOD AS DESCRIBED BY AISC.
4. NON-STRUCTURAL CONNECTIONS FOR STEEL GRATING, HANDRAILS AND LADDERS MAY BE GALVANIZED 547 DIA ASTM AISC BOLTS UNLESS NOTED OTHERWISE.
5. ALL MATERIALS SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.
6. CONTRACTOR SHALL PROVIDE MATERIALS OF GOOD CONDITION AND INSTALL MATERIALS IN A MANNER AS TO PROTECT AND PRESERVE CONDITION OF MATERIALS.

Welding

1. ALL WELDING SHALL BE IN CONFORMANCE WITH AISC AND AWS STANDARDS AND SPECIFICATIONS AND SHALL BE PERFORMED BY OTHER WELDERS USING E70XX ELECTRODES UNLESS NOTED OTHERWISE.
2. ALL WELDS SHALL BE A MINIMUM OF 1/4" FILLET WELDS UNLESS NOTED OTHERWISE.
3. WELDED JOINTS SHALL BE PROTECTED USING LOW HYDROGEN ELECTRODES. WELDS WITHIN 4" OF COLD BENDS IN REINFORCING STEEL IS NOT PERMITTED.

| NO. | DATE | DESCRIPTION | BY |
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| 0 <td>11/11/2022 <td>PROJECT SUBMITTAL <td>SM</td> </td></td> | 11/11/2022 <td>PROJECT SUBMITTAL <td>SM</td> </td> | PROJECT SUBMITTAL <td>SM</td> | SM |
| 1 <td>11/11/2022 <td>10% DESIGN DEVELOPMENT <td>SM</td> </td></td> | 11/11/2022 <td>10% DESIGN DEVELOPMENT <td>SM</td> </td> | 10% DESIGN DEVELOPMENT <td>SM</td> | SM |



LONG BEACH
AIRPORT - IDAS
(PHASE 1)
4100 DONALD DOUGLAS DR
LONG BEACH, CA 90808

SHEET TITLE
GENERAL NOTES

T-2

| ISSUE | DATE | DESCRIPTION | BY |
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| 1 | REVISED | PERMIT SUBMITTAL | JK |
| 2 | REVISED | FINAL CONSTRUCTION PERMIT | JK |

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 2000 BROADWAY, SUITE 200
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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
GENERAL NOTES
T-3

SEALS, PAINTS AND COATINGS, ARCHITECTURAL PAINTS AND COATINGS SHALL COMPLY WITH VOC LIMITS IN TABLE 4 OF THE 2001 CALIFORNIA GREEN BUILDING CODE (CALIFORNIA GREEN BUILDING CODE) UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4 OF THE 2001 CALIFORNIA GREEN BUILDING CODE SHALL BE BASED ON ITS SOLIDS, AS DEFINED IN SECTIONS 4.2, 4.36 AND 4.37 OF THE 2001 CALIFORNIA AIR RESOURCES BOARD SUGGESTED COATINGS VOC LIMITS TABLE. COATINGS THAT DO NOT MEET THE VOC LIMITS SHALL BE LISTED IN TABLE 4 OF THE 2001 CALIFORNIA GREEN BUILDING CODE.

TABLE 4 - VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

| COATING CATEGORY | CURRENT VOC LIMIT (GRAMS PER LITER) |
|---|-------------------------------------|
| FLAT COATINGS | 50 |
| NONFLAT COATINGS | 100 |
| SPECIALTY COATINGS | 150 |
| ALUMINUM ROOF COATINGS | 400 |
| BITUMINOUS ROOF COATINGS | 500 |
| BITUMINOUS ROOF PRIMERS | 350 |
| BOND BREAKERS | 350 |
| CONCRETE CURING COMPOUNDS | 350 |
| CONCRETE/MASONRY SEALERS | 100 |
| DRIVEWAY SEALERS | 150 |
| DRY CLEANING | 150 |
| PAINT FINISHING COATINGS | 350 |
| FIRE RESISTIVE COATINGS | 350 |
| FLOOR COATINGS | 100 |
| FLOOR-RELEASE COMPOUNDS (SIGN PAINTS) | 200 |
| HIGH-TEMPERATURE COATINGS | 500 |
| LOW SOLIDS COATINGS | 250 |
| LOW SOLIDS COATINGS | 120 |
| MAGNESITE CEMENT COATINGS | 450 |
| MASTIC TEXTURE COATINGS | 100 |
| METALLIC PIGMENTED COATINGS | 500 |
| MULTICOLOR CHIMNEY PRIMERS | 420 |
| PRIMERS, SEALERS AND UNDERCOATERS | 100 |
| REACTIVE PENETRATING SEALERS | 350 |
| RECYCLED COATINGS | 250 |
| ROOF COATINGS | 50 |
| ROOF PRESERVATIVES | 250 |
| STAIN RESISTANT FINISHES | 700 |
| OPAQUE | 550 |
| SPECIALTY PRIMERS, SEALERS AND UNDERCOATERS | 100 |
| STONE CONSOLIDANTS | 250 |
| SWIMMING POOL COATINGS | 450 |
| TRAFFIC MARKING COATINGS | 340 |
| TUB AND TILE REFINISH COATINGS | 100 |
| UNDER FLOORING MEMBRANES | 420 |
| WOOD PRESERVATIVES | 225 |
| ZINC-RICH PRIMERS | 350 |
| ZINC-RICH PRIMERS | 340 |

SEALS, PAINTS AND COATINGS, ARCHITECTURAL PAINTS AND COATINGS SHALL MEET THE VOC LIMITS FOR ROOF IN SECTION 4.37 OF THE 2001 CALIFORNIA GREEN BUILDING CODE UNLESS MORE STRINGENT LOCAL LIMITS APPLY. THE VOC CONTENT LIMIT FOR COATINGS THAT DO NOT MEET THE DEFINITIONS FOR THE SPECIALTY COATINGS CATEGORIES LISTED IN TABLE 4 OF THE 2001 CALIFORNIA GREEN BUILDING CODE SHALL BE BASED ON ITS SOLIDS, AS DEFINED IN SECTIONS 4.2, 4.36 AND 4.37 OF THE 2001 CALIFORNIA AIR RESOURCES BOARD SUGGESTED COATINGS VOC LIMITS TABLE. COATINGS THAT DO NOT MEET THE VOC LIMITS SHALL BE LISTED IN TABLE 4 OF THE 2001 CALIFORNIA GREEN BUILDING CODE.

TABLE 5 - VOC CONTENT LIMITS FOR LESS WATER AND LESS EXEMPT COMPOUNDS

| SEALANTS | CURRENT VOC LIMIT (GRAMS PER LITER) |
|--------------------------|-------------------------------------|
| ARCHITECTURAL | 250 |
| NONPOROUS | 300 |
| ROADWAY | 250 |
| SINGLE-PLY ROOF MEMBRANE | 450 |
| OTHER | 420 |

PART 1 - General

- CONTRACTOR SHALL SEAL ALL PENETRATIONS OF EXISTING BUILDING ENVELOPE EXPOSED TO WEATHER. A COMPLETELY WEATHER-TIGHT JOINT SHALL BE FORMED BY A COMPLETELY WEATHER-TIGHT SEALANT. THE SEALANT SHALL BE APPLIED TO THE JOINT SURFACE AND SHALL BE COMPATIBLE WITH THE JOINT SURFACE MATERIALS. THE SEALANT SHALL NOT FAIL DUE TO HARDENING, CRACKING, CRACKLING, RETILING, SHRINKAGE AND SHALL NOT STAIN, DISCOLOR, OR DISCOLOR ADJACENT SURFACES.
- CONTRACTOR SHALL PROVIDE JOINT SEALERS, JOINT FILLERS AND RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH SUBSTRATE AND FINISH MATERIALS. BE FLASHED AND SEALED WITH LIKE MATERIALS TO ACHIEVE A WATER-TIGHT CONDITION.
- CONTRACTOR SHALL VERIFY THAT JOINT CONDITIONS EXIST WHERE PROTECTIVE FLASHING OR STAINING PAPER CAN COVER WHEN THE PROJECT IS COMPLETE.
- POSITIVE DRAINAGE SHALL BE MAINTAINED AROUND ALL SUBSTRATE JOINTS, CORNER PENETRATIONS AND FLASHINGS.
- CONTRACTOR SHALL PROVIDE DRAINAGE SYSTEMS THROUGHOUT THE PROJECT AND INSURE THEY ARE IN PROPER WORKING ORDER AT THE COMPLETION OF THE PROJECT.

PART 4 - Flashing

- FOR USE IN LEAK PREVENTION AND WATER SEALING SYSTEMS, FLASHING SHALL BE CORROSION RESISTANT, FLEXIBLE, AND FIRE RATED. WALLS, FLOOR SPACES BETWEEN WIRES AND SLEEVES SHALL BE FLASHED WITH FIRE RESISTANT MATERIAL WITHOUT GAPS OR VOID SPACE.
- FLASHING AND FLASHINGS SHALL BE INSTALLED BY AN EXPERIENCED QUALIFIED CONTRACTOR AND SHALL COMPLY WITH CODE REQUIREMENTS.
- FLASHING SYSTEM SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- NO DEVIATIONS FROM THESE DRAWINGS ARE ALLOWED WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT OR ARCHITECT.

PART 5 - Finishes

- PAINT COLORS SHALL BE APPROVED BY OWNER.
- METALLIC FINISHES SHALL BE LIMITED TO TRANSDUCING CONTAINERS LABELED WITH COLOR, TYPE AND MANUFACTURER.
- FINISHES SHALL BE APPLIED TO ALL SURFACES TO BE FINISHED.
- FINISHED SURFACES SHALL BE DURABLE, UNIFORM AND FREE OF BUBBLES, BUBBLES, PEELING OR DISCOLORATION.

PART 6 - Electrical

- SEE ELECTRICAL DRAWINGS AND NOTES.
- ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL AND STATE CODES, REGULATIONS AND UTILITY GUIDELINES.
- ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL AND STATE CODES, REGULATIONS AND UTILITY GUIDELINES.
- ALL ELECTRICAL INSTALLATIONS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND THE REQUIREMENTS OF ALL APPLICABLE MUNICIPAL AND STATE CODES, REGULATIONS AND UTILITY GUIDELINES.

LESS WATER AND LESS EXEMPT COMPOUNDS IN GRAMS PER LITER

| SEALANTS | CURRENT VOC LIMIT |
|--------------------------|-------------------|
| ARCHITECTURAL | 250 |
| NONPOROUS | 300 |
| ROADWAY | 250 |
| SINGLE-PLY ROOF MEMBRANE | 450 |
| OTHER | 420 |

TABLE 6 - VOC CONTENT LIMITS FOR LESS WATER AND LESS EXEMPT COMPOUNDS

| SEALANT PRIMERS | CURRENT VOC LIMIT (GRAMS PER LITER) |
|--------------------------|-------------------------------------|
| ARCHITECTURAL | 250 |
| NONPOROUS | 300 |
| ROADWAY | 250 |
| SINGLE-PLY ROOF MEMBRANE | 450 |
| OTHER | 420 |

TABLE 7 - VOC CONTENT LIMITS FOR LESS WATER AND LESS EXEMPT COMPOUNDS

| SEALANT PRIMERS | CURRENT VOC LIMIT (GRAMS PER LITER) |
|--------------------------|-------------------------------------|
| ARCHITECTURAL | 250 |
| NONPOROUS | 300 |
| ROADWAY | 250 |
| SINGLE-PLY ROOF MEMBRANE | 450 |
| OTHER | 420 |

1. MANUFACTURERS PRODUCT SPECIFICATION
 2. FIELD VERIFICATION OF ON-SITE PRODUCT CONTAINERS

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|------------|------|-------------------|-----|
| 0 | UNFINISHED | | PERMIT SUBMITTED | JMK |
| 1 | ISSUED | | PERMIT CONDITIONS | JMK |

FULSANG ARCHITECTURE
 6215 BROADWAY
 SUITE 200
 RIVERSIDE, CA 92506

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Verizon
 15505 SAND CANYON AVENUE, D1
 RYAN, CA 92616



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR
 LONG BEACH, CA 90808

SHEET TITLE
 PLANNING APPROVAL

PA-1

CITY OF LONG BEACH
 Development Services Department
 4100 Donald Douglas Drive, Long Beach, CA 90808

Administrative Form

Project Name: Verizon Wireless City: Long Beach Date: 01/20/17
 Address: 4100 Donald Douglas Dr City: Long Beach State: CA Zip: 90808
 E-mail: James.J.Tward@cityoflongbeach.com

Proprietary Owner Acknowledgment:
 I, the undersigned, hereby certify that the information provided on this form is true and correct to the best of my knowledge and belief. I understand that providing false information may result in the denial of the permit and may constitute a criminal offense under California law. I understand that providing false information may also result in the denial of the permit and may constitute a criminal offense under California law. I understand that providing false information may also result in the denial of the permit and may constitute a criminal offense under California law.

City Clerk: _____ Mayor: _____
 City Engineer: _____ City Manager: _____
 City Attorney: _____ City Auditor: _____
 City Treasurer: _____ City Controller: _____

CITY OF LONG BEACH
 Development Services Department
 4100 Donald Douglas Drive, Long Beach, CA 90808

Administrative Form

Project Name: Verizon Wireless City: Long Beach Date: 01/20/17
 Address: 4100 Donald Douglas Dr City: Long Beach State: CA Zip: 90808
 E-mail: James.J.Tward@cityoflongbeach.com

Proprietary Owner Acknowledgment:
 I, the undersigned, hereby certify that the information provided on this form is true and correct to the best of my knowledge and belief. I understand that providing false information may result in the denial of the permit and may constitute a criminal offense under California law. I understand that providing false information may also result in the denial of the permit and may constitute a criminal offense under California law. I understand that providing false information may also result in the denial of the permit and may constitute a criminal offense under California law.

City Clerk: _____ Mayor: _____
 City Engineer: _____ City Manager: _____
 City Attorney: _____ City Auditor: _____
 City Treasurer: _____ City Controller: _____

CITY OF LONG BEACH
 Development Services Department
 4100 Donald Douglas Drive, Long Beach, CA 90808

Processing of Battery Systems

Building Owner / Tenant Disclosure for Fire Department
 Processing of Battery Systems

REGULATORY 14 BELOW, read the comment and check yes or no, under #14-18.

1. Yes, I have an existing battery system in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building.

2. No, I do not have an existing battery system in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building.

3. Yes, I have an existing battery system in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building.

4. No, I do not have an existing battery system in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building. I have a fire alarm system installed in my building.

5. Describe any information pertinent that you feel is not covered by the above information.

City Clerk: _____ Mayor: _____
 City Engineer: _____ City Manager: _____
 City Attorney: _____ City Auditor: _____
 City Treasurer: _____ City Controller: _____

| ISSUE STATUS | DATE | DESCRIPTION | BY |
|--------------|------------|---|----|
| 1 | 10/15/2011 | PROPOSED VERIZON AIRPORT - IDAS (PHASE 1) | MM |
| 2 | 10/15/2011 | PROPOSED VERIZON AIRPORT - IDAS (PHASE 1) | MM |
| 3 | 10/15/2011 | PROPOSED VERIZON AIRPORT - IDAS (PHASE 1) | MM |
| 4 | 10/15/2011 | PROPOSED VERIZON AIRPORT - IDAS (PHASE 1) | MM |
| 5 | 10/15/2011 | PROPOSED VERIZON AIRPORT - IDAS (PHASE 1) | MM |

FULSANG ARCHITECTURE
 6055 BOWLING GREEN BLVD. SUITE 200
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Verizon

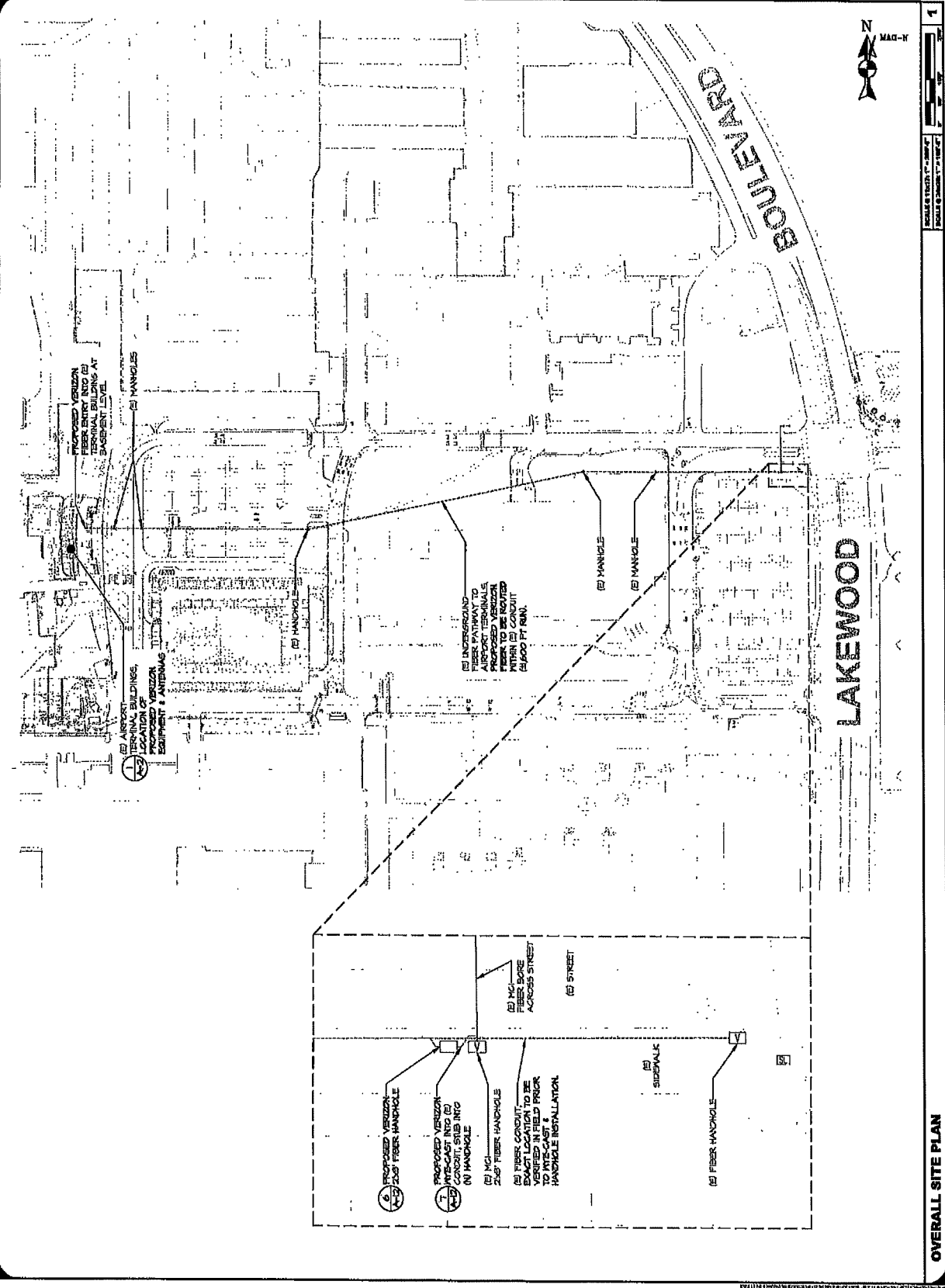
16505 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
OVERALL SITE PLAN

A-1

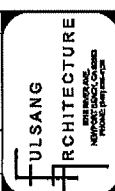


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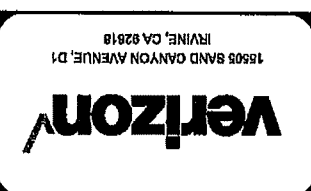
OVERALL SITE PLAN

1

| REV | DATE | DESCRIPTION | BY |
|-----|------------|-----------------------------|----|
| 0 | | ISSUED FOR PERMIT SUBMITTAL | MM |
| 1 | 10/27/2023 | PERMIT CORRECTIONS | MM |



TULSANG ARCHITECTURE
 15500 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

A-2

OVERALL AIRPORT INTERIOR PLAN & CONDUIT SCHEDULE

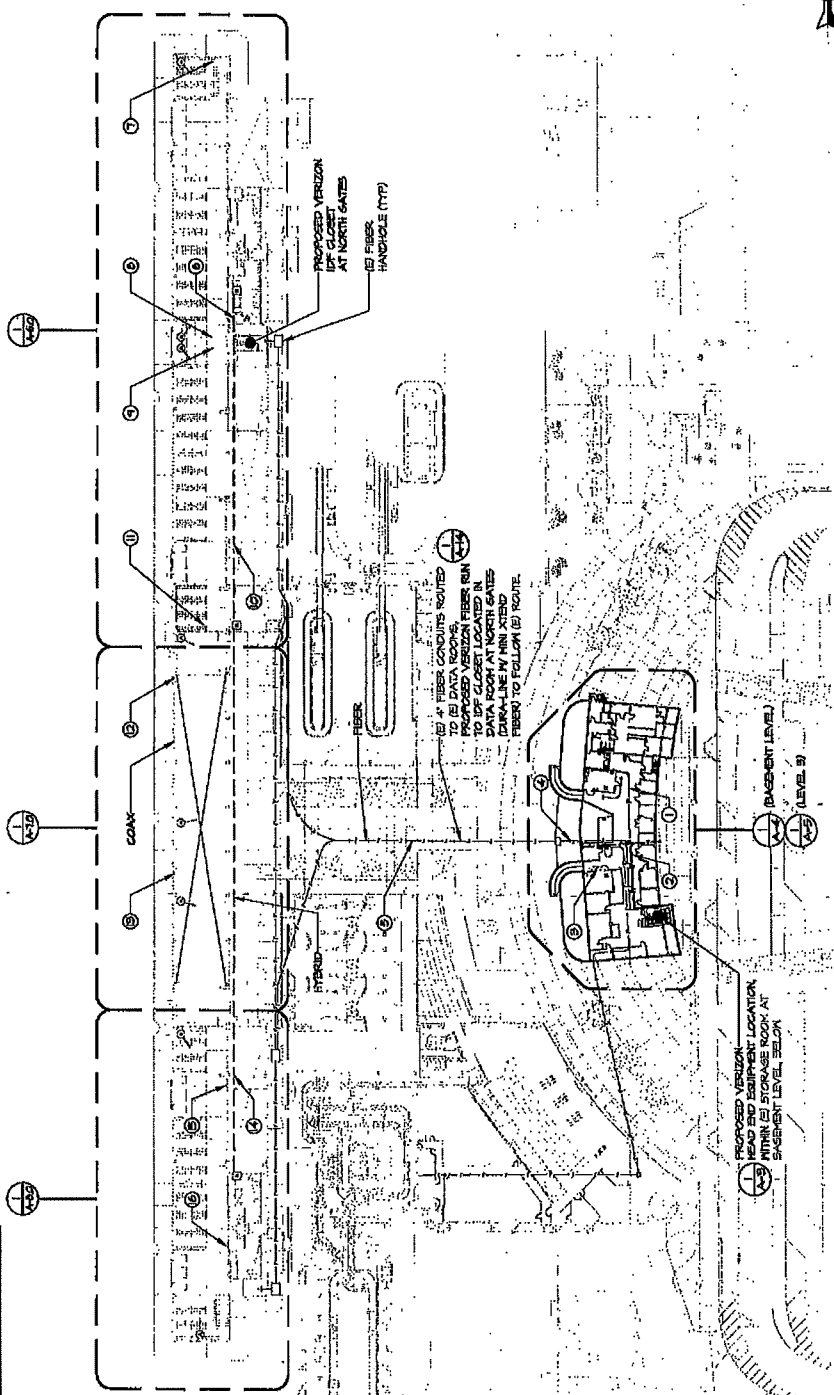
Conduit Schedule

| Segment ID | Conduit Type | Conduit Diameter | Conduit Length | Notes |
|------------|--------------|------------------|----------------|------------------------|
| 1 | Electrical | 1/2" EMT | 150' L | Historic Terminal, B1 |
| 2 | Electrical | 1/2" EMT | 150' L | Historic Terminal, B2 |
| 3 | Coax | 1/2" EMT | 150' L | Historic Terminal, B3 |
| 4 | Coax | 1/2" EMT | 150' L | Historic Terminal, B4 |
| 5 | Fiber | 1/2" EMT | 150' L | Historic Terminal, B5 |
| 6 | Coax | 1/2" EMT | 150' L | Historic Terminal, B6 |
| 7 | Coax | 1/2" EMT | 150' L | Historic Terminal, B7 |
| 8 | Coax | 1/2" EMT | 150' L | Historic Terminal, B8 |
| 9 | Coax | 1/2" EMT | 150' L | Historic Terminal, B9 |
| 10 | Coax | 1/2" EMT | 150' L | Historic Terminal, B10 |
| 11 | Coax | 1/2" EMT | 150' L | Historic Terminal, B11 |
| 12 | Coax | 1/2" EMT | 150' L | Historic Terminal, B12 |
| 13 | Coax | 1/2" EMT | 150' L | Historic Terminal, B13 |
| 14 | Coax | 1/2" EMT | 150' L | Historic Terminal, B14 |
| 15 | Coax | 1/2" EMT | 150' L | Historic Terminal, B15 |

LEGEND

- Panel Annotations (See 1/A-10, 1/7-7 H x 12.3' W x 4.7' D)
- Radio Shack Made (See 1/A-11 & 2/A-11, (S) Radio Units only)
- Conduit Run
- Fiber
- Hybrid Cable
- Electrical

NOTE: INSTALL JUNCTION BOXES AS REQUIRED AT WALL PENETRATIONS, WHERE CONDUITS INVERSE ETC. SEE 2/A-6 FOR SPECIFICATIONS.



OVERALL AIRPORT INTERIOR PLAN

| REV. | DATE | DESCRIPTION | BY |
|------|------|------------------|----|
| 1 | | PERMIT SUBMITTAL | |
| 2 | | SPRINKLER | |
| 3 | | OVERHEAD PIPES | |
| 4 | | OVERHEAD BEAMS | |
| 5 | | OVERHEAD PIPES | |
| 6 | | OVERHEAD PIPES | |
| 7 | | OVERHEAD PIPES | |
| 8 | | OVERHEAD PIPES | |
| 9 | | OVERHEAD PIPES | |
| 10 | | OVERHEAD PIPES | |
| 11 | | OVERHEAD PIPES | |
| 12 | | OVERHEAD PIPES | |
| 13 | | OVERHEAD PIPES | |
| 14 | | OVERHEAD PIPES | |
| 15 | | OVERHEAD PIPES | |
| 16 | | OVERHEAD PIPES | |
| 17 | | OVERHEAD PIPES | |
| 18 | | OVERHEAD PIPES | |
| 19 | | OVERHEAD PIPES | |
| 20 | | OVERHEAD PIPES | |

FULSANG ARCHITECTURE
 4000 RIVERVIEW DRIVE
 SUITE 100
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 (949) 261-1111
 www.fulsang.com

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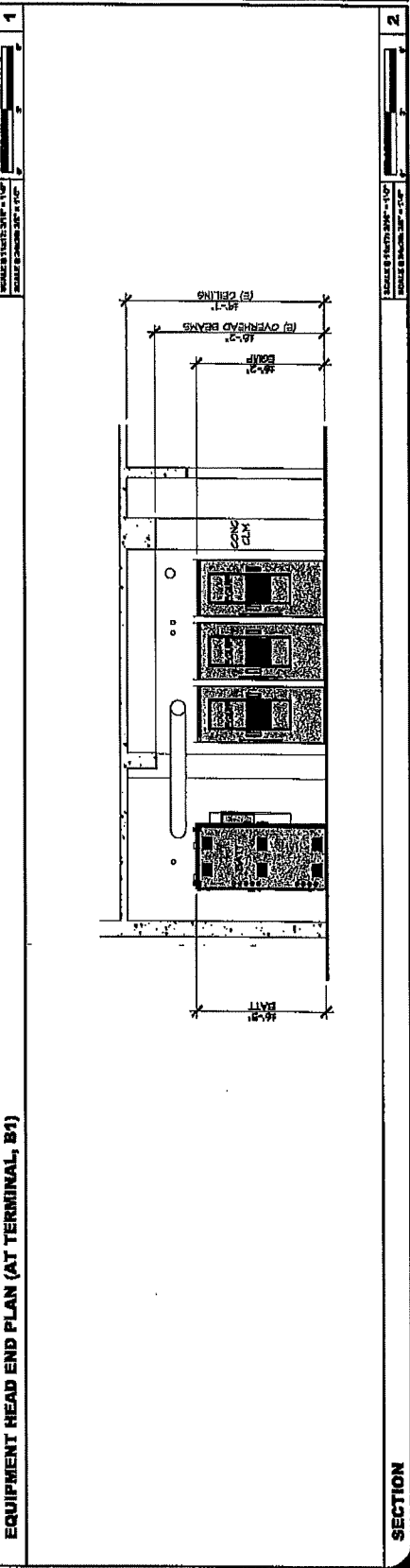
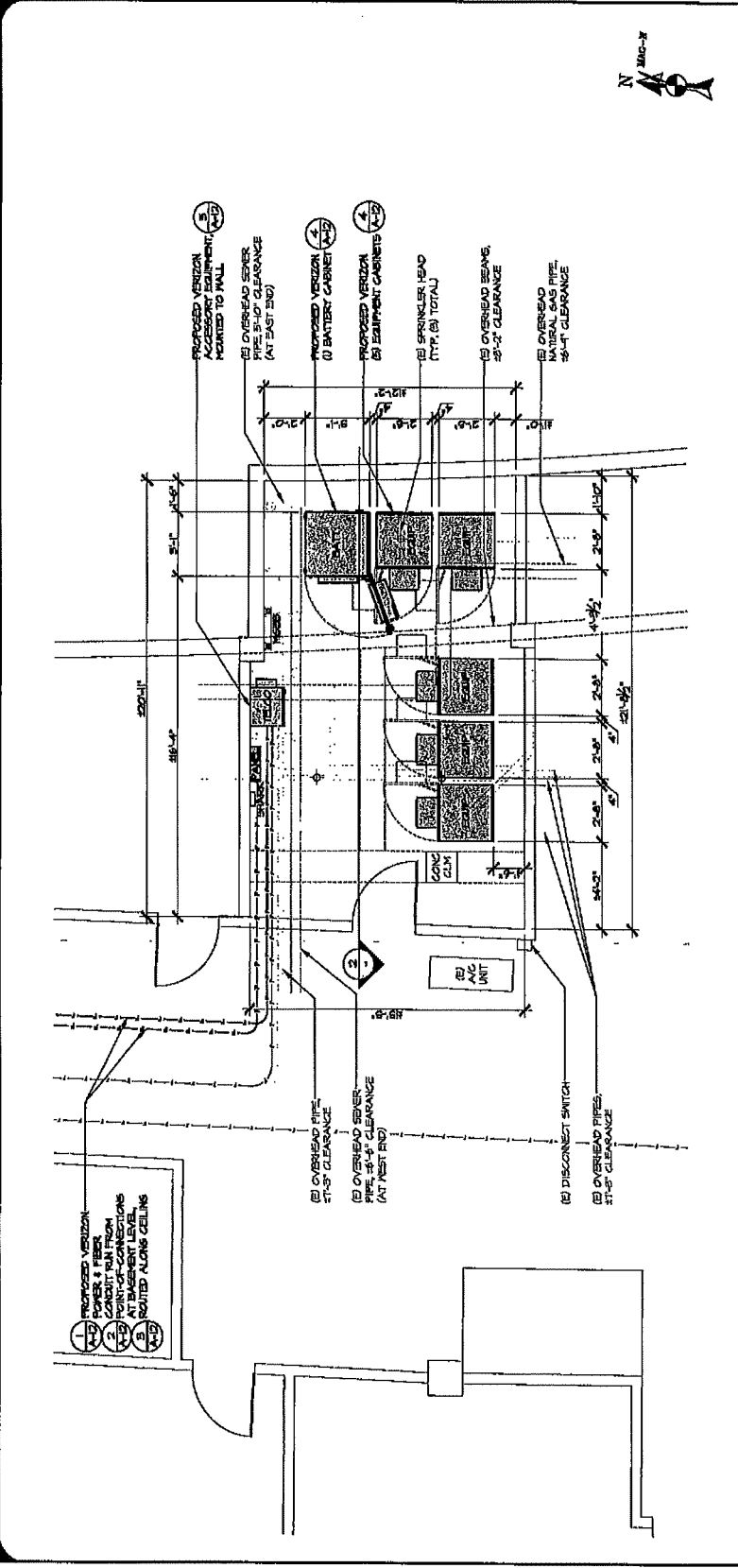
Verizon
 15808 SAND CANYON AVENUE, P1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE:
EQUIPMENT HEAD END PLAN & SECTION (AT TERMINAL, B1)

A-3



EQUIPMENT HEAD END PLAN (AT TERMINAL, B1)

SECTION

| ISSUE STATUS | DATE | DESCRIPTION | BY |
|--------------|------|------------------|----|
| 5 | | PERMIT SUBMITTAL | MM |
| 3 | | PERMITS | MM |
| 1 | | FINAL CONTRACT | MM |

FULSANG ARCHITECTURE
 8000 BROADWAY
 SUITE 200
 BOSTON, MA 02118
 (617) 552-3333

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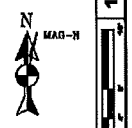
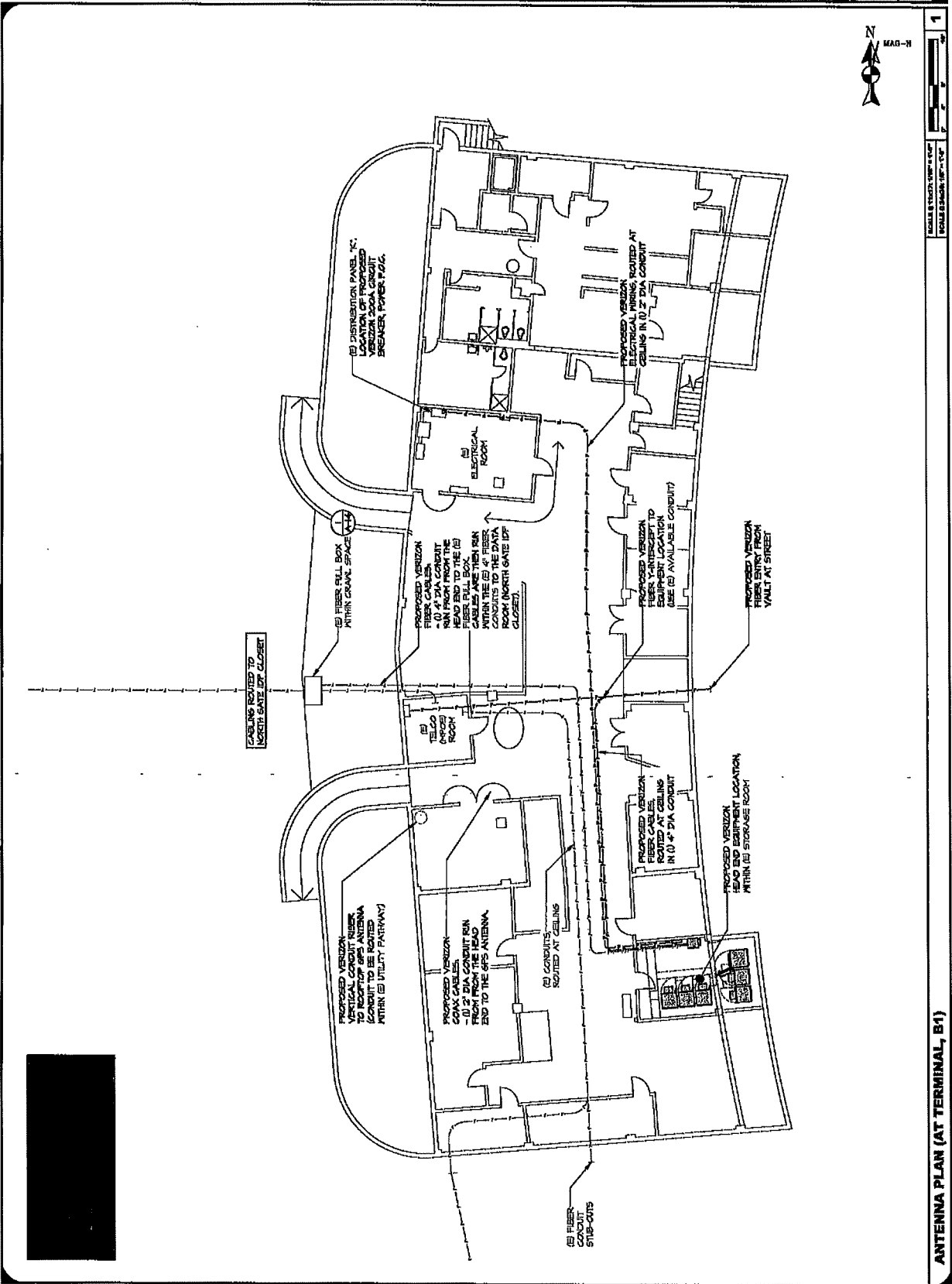
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 18505 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
ANTENNA PLAN (AT TERMINAL, B1)

A-4

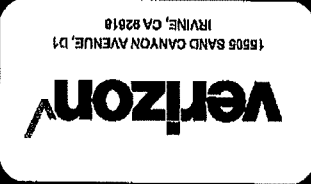


SCALE: 1/8" = 1'-0" (AS SHOWN)
 ANTENNA PLAN (AT TERMINAL, B1) 1

| NO. | DATE | DESCRIPTION | BY |
|-----|------------|---------------------|-----|
| 0 | 10/25/2012 | PERMIT SUBMITTAL | IMF |
| 1 | 10/25/2012 | PLAN CHECK/COMMENTS | IMF |
| | | | |
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| | | | |
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FULSANG ARCHITECTURE
 18508 SAND CANYON AVENUE, D11
 IRVINE, CA 92618

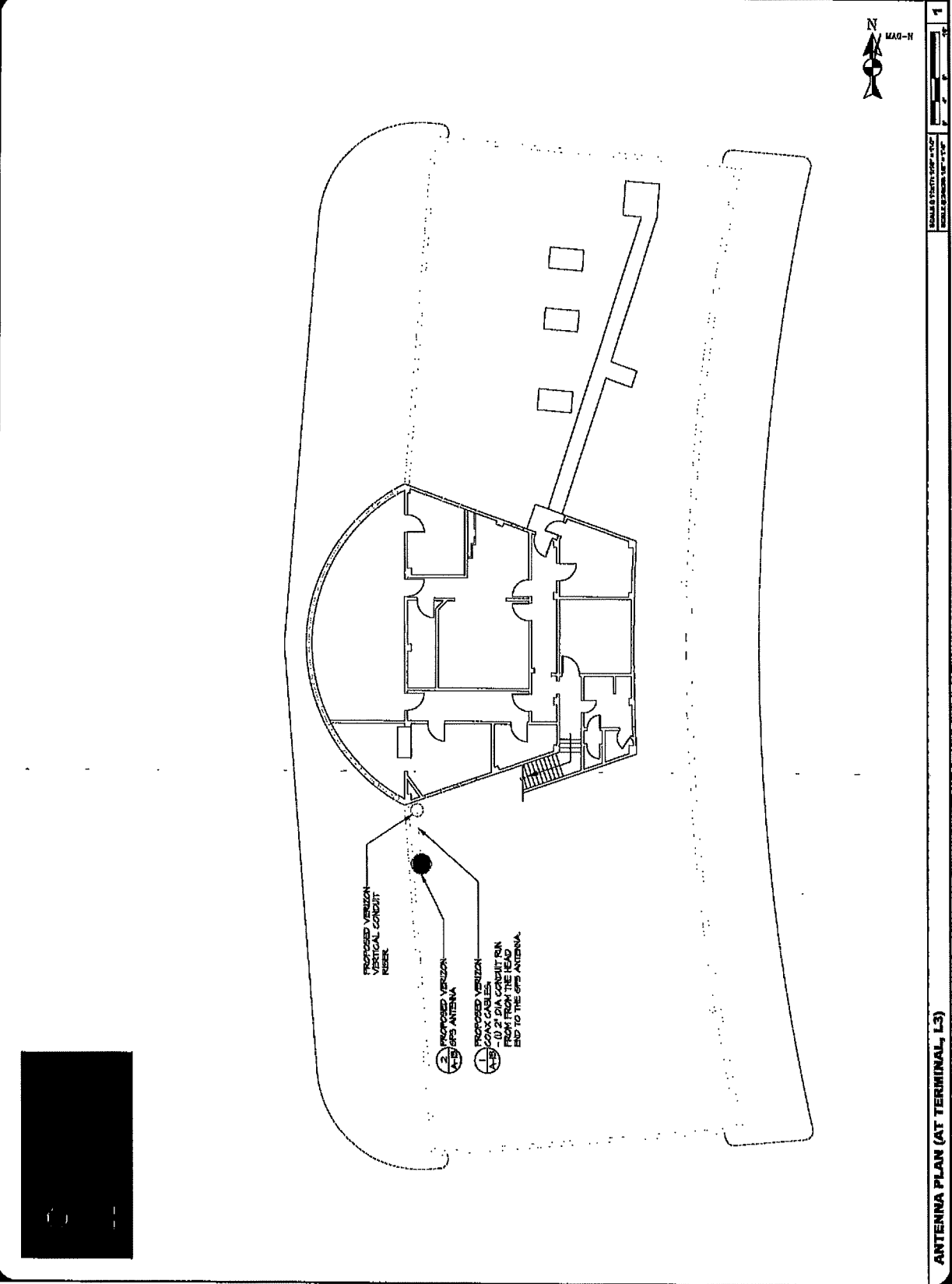
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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
ANTENNA PLAN (AT TERMINAL, L3)

A-5



ANTENNA PLAN (AT TERMINAL, L3)

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|---------|------|-----------------|-----|
| 1 | REVISED | | FOR INFORMATION | NOT |
| 2 | REVISED | | FOR INFORMATION | NOT |
| 3 | REVISED | | FOR INFORMATION | NOT |
| 4 | REVISED | | FOR INFORMATION | NOT |
| 5 | REVISED | | FOR INFORMATION | NOT |
| 6 | REVISED | | FOR INFORMATION | NOT |
| 7 | REVISED | | FOR INFORMATION | NOT |
| 8 | REVISED | | FOR INFORMATION | NOT |
| 9 | REVISED | | FOR INFORMATION | NOT |
| 10 | REVISED | | FOR INFORMATION | NOT |

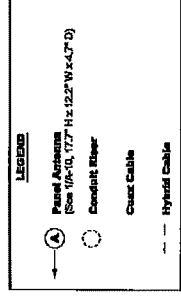
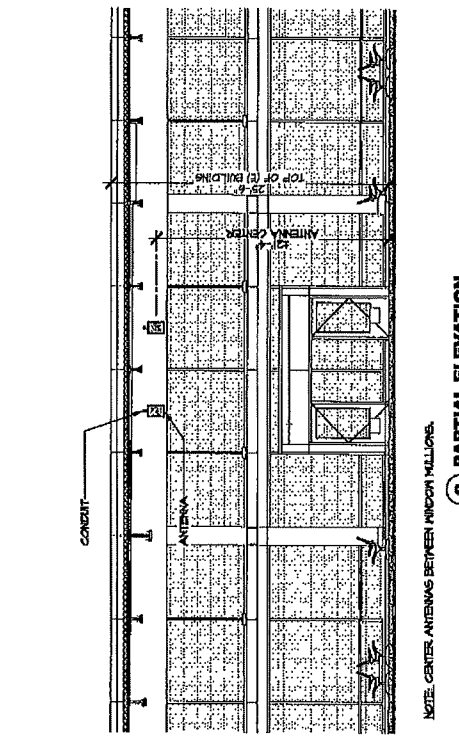
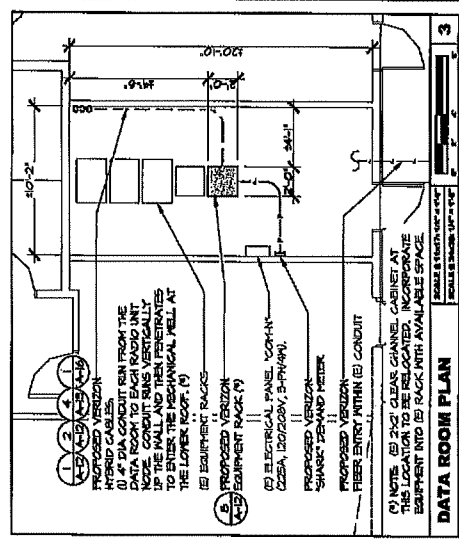
TULSANG ARCHITECTURE
 18605 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

Verizon
 18605 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

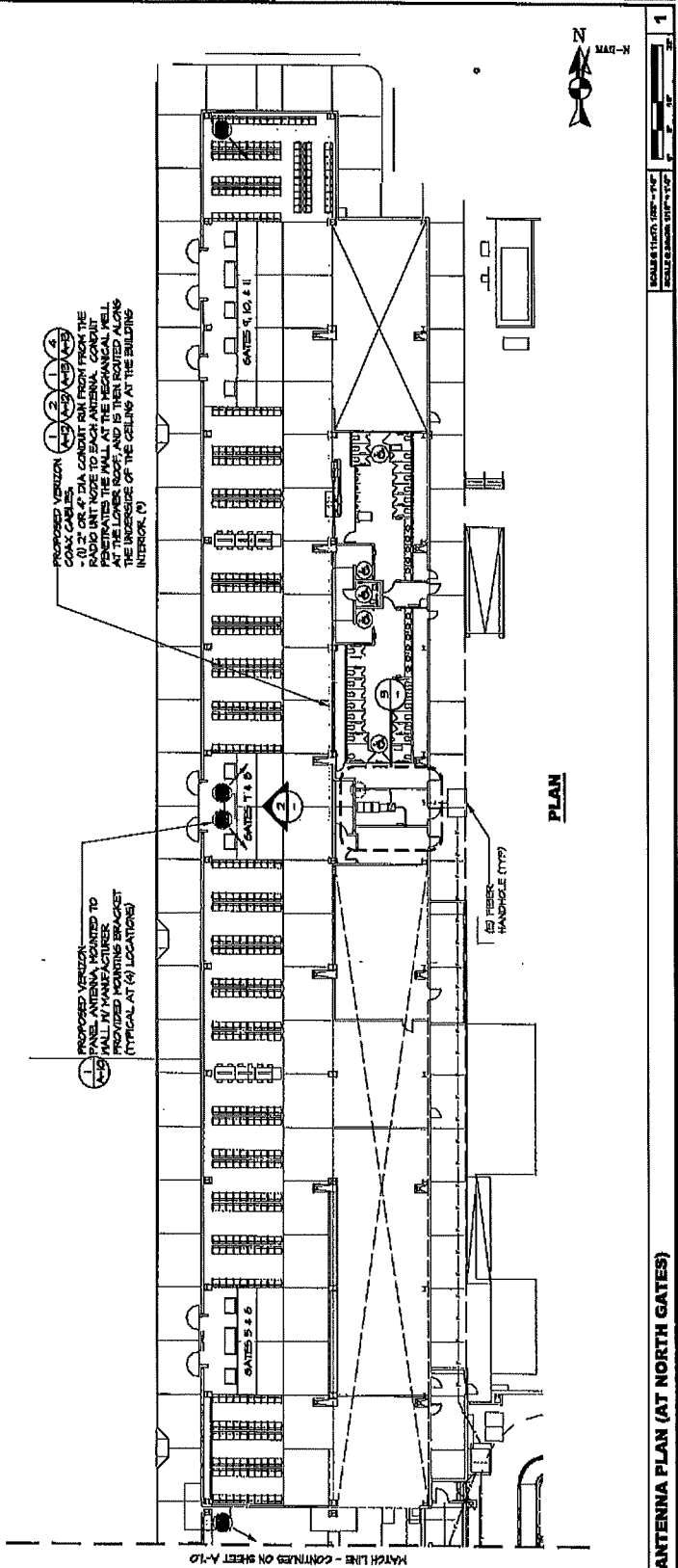


LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

A-6.0
 SHEET TITLE
ANTENNA PLAN (AT NORTH GATES)



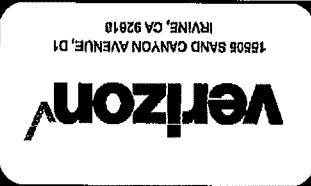
(1) NOTE: NOTCH BOXES AS REQUIRED AT WALL PENETRATIONS. THESE CONDUITS DIVERGE INTO SEE 2/A-B FOR SPECIFICATIONS.



| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|----------|------|--------------------|----|
| 0 | DESIGNED | | DESIGN DEVELOPMENT | MM |
| 1 | REVISION | | REVISIONS | MM |

FULSANG ARCHITECTURE
 1500 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

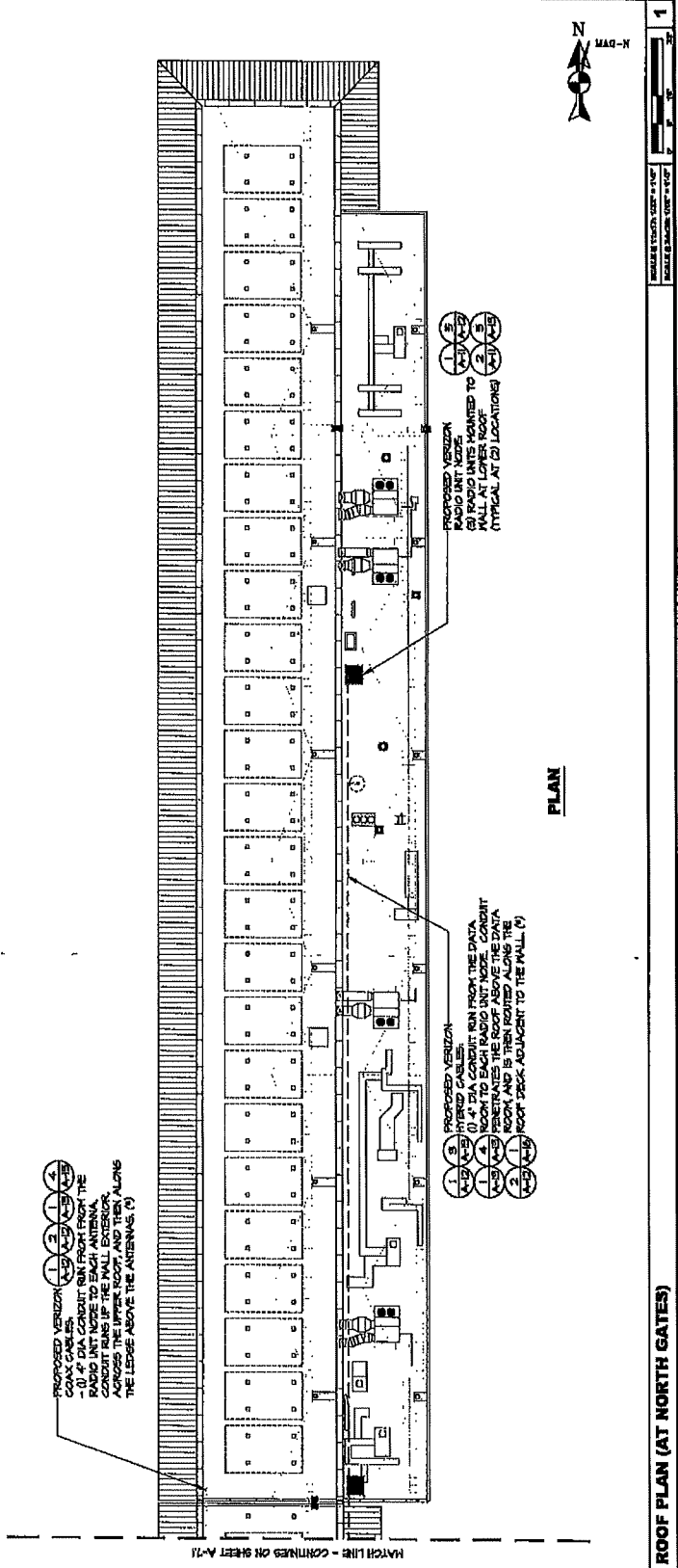
SHEET TITLE
 ROOF PLAN
 (AT NORTH GATES)

A-6.1

LEGEND

| | |
|---|---|
| R | Radio Unit Node |
| R | Radio Unit Node (See 11A-11 & 21A-11, (3) Radio Units Node) |
| R | Conduit Rise |
| R | Conduit |
| R | Hybrid Cable |

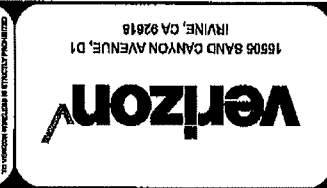
NOTES:
 1. ALL WALL PENETRATIONS AS REQUIRED (IN WALL PENETRATIONS WHERE CONDUITS DIVERGE, ETC.) SEE 21A-16 FOR SPECIFICATIONS.



| NO. | DATE | DESCRIPTION | BY |
|-----|------------|---------------------|----|
| 0 | 08/20/2024 | PERMIT SUBMITTAL | MT |
| 1 | 08/20/2024 | PERMIT CONSTRUCTION | MT |

FULSANG ARCHITECTURE
 1550 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

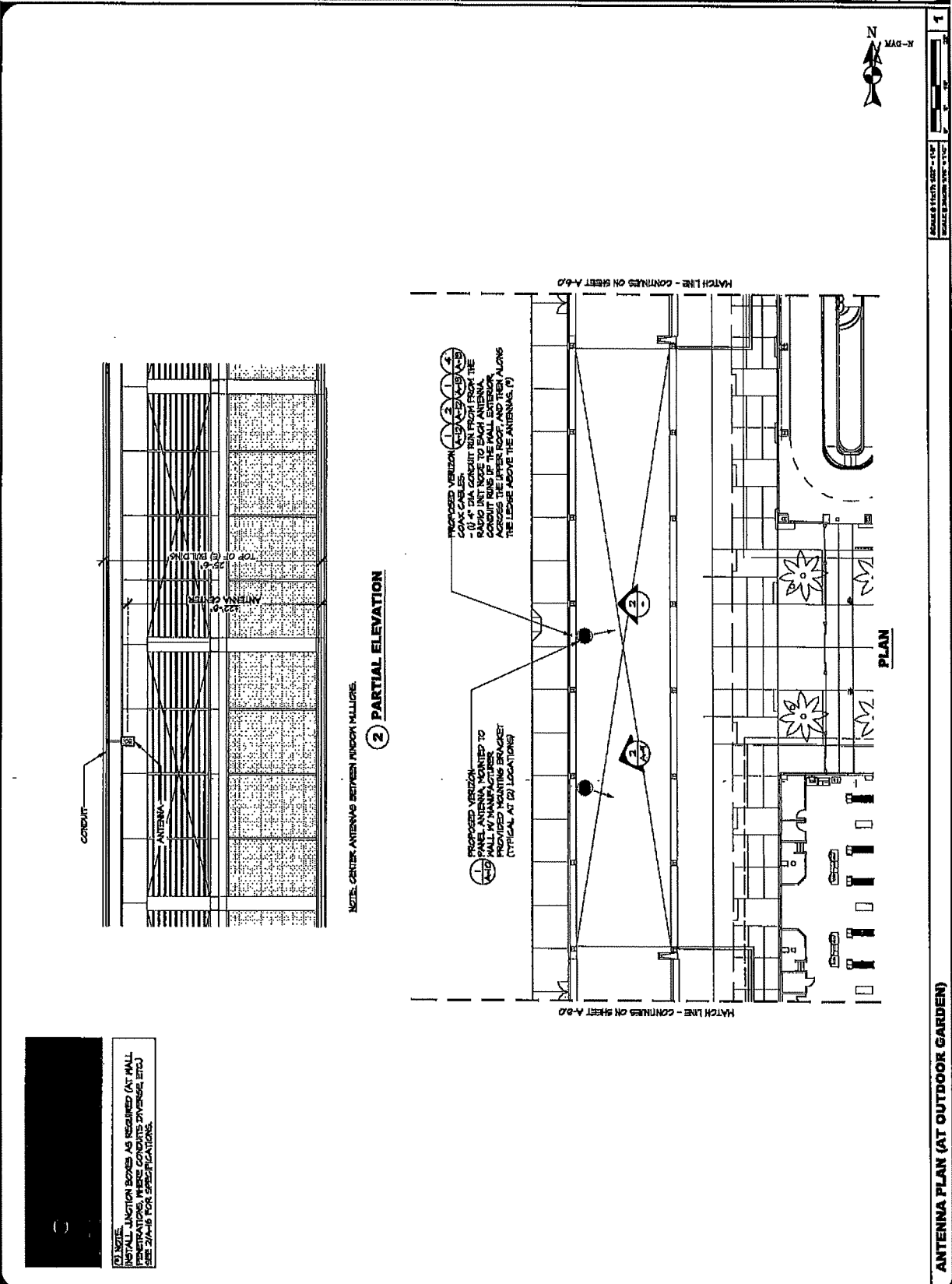
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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
 ANTENNA PLAN
 (AT OUTDOOR GARDEN)

A-7.0



(3) NOTE:
 INSTALL LIGATION BOXES AS REQUIRED (AT WALL PENETRATIONS, WHERE CONDUITS DIVERGE, ETC.) SEE 3/4-16 FOR SPECIFICATIONS.

ANTENNA PLAN (AT OUTDOOR GARDEN)

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|---------|------------|--------------------|-----|
| 0 | REVISED | 10/20/2023 | PERMIT SUBMITTAL | JNF |
| 1 | TOP | 10/20/2023 | PERMIT DISCLOSURES | JNF |

FULSANG ARCHITECTURE
 ARCHITECTS
 15808 SAND CANYON AVENUE, D1
 RIVINE, CA 92618

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Verizon

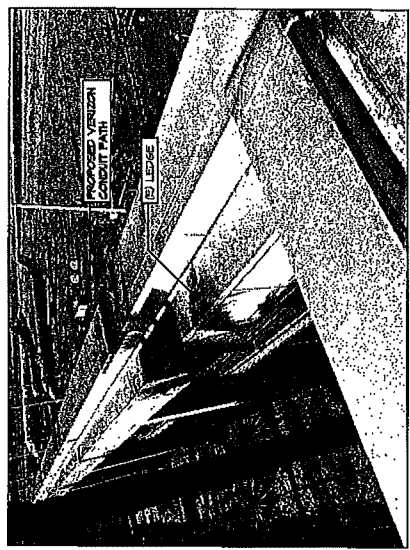
15808 SAND CANYON AVENUE, D1
 RIVINE, CA 92618



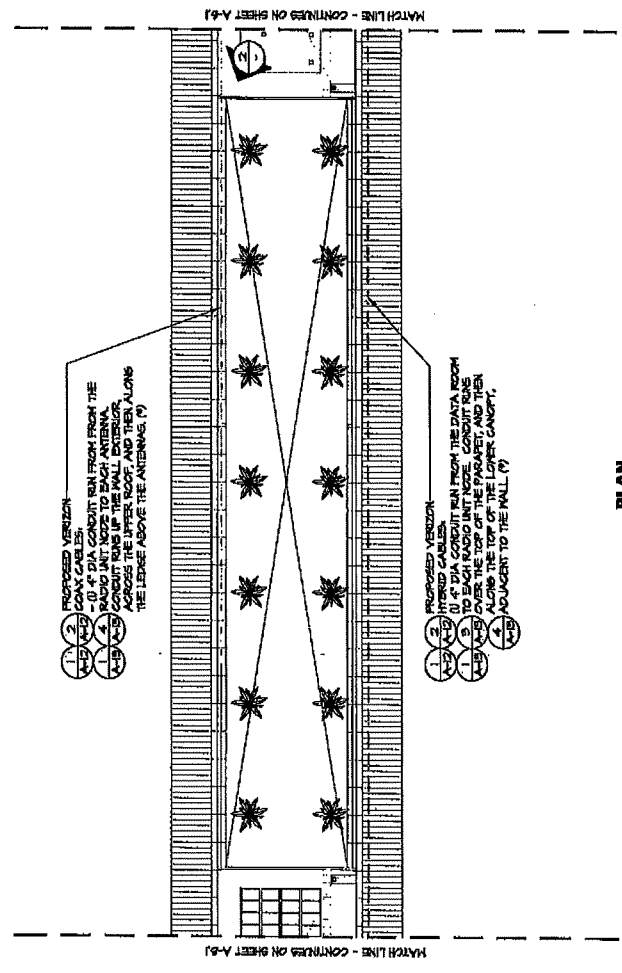
LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
ROOF PLAN (AT OUTDOOR GARDEN)

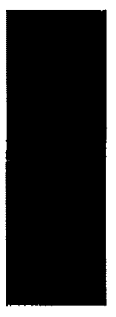
A-7.1



2 REFERENCE PHOTO



PLAN



NOTE:
 INSTALL JUNCTION BOXES AS REQUIRED (AT WALL PENETRATIONS, WHERE CONDUITS INVERSE, ETC.) SEE 2104B FOR SPECIFICATIONS.



| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------------------|----|
| 1 | | ISSUED FOR PERMITS | |
| 2 | | ISSUED FOR CONSTRUCTION | |
| 3 | | ISSUED FOR AS-BUILT | |
| 4 | | ISSUED FOR RECORD | |
| 5 | | ISSUED FOR ARCHIVE | |

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 IRVINE, CA 92618
 (949) 453-1111
 WWW.TULSANGARCHITECTURE.COM

Verizon
 15500 SAND CANYON AVENUE, SUITE 100
 IRVINE, CA 92618

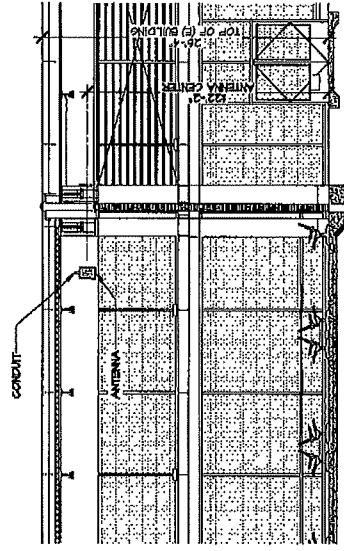


LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

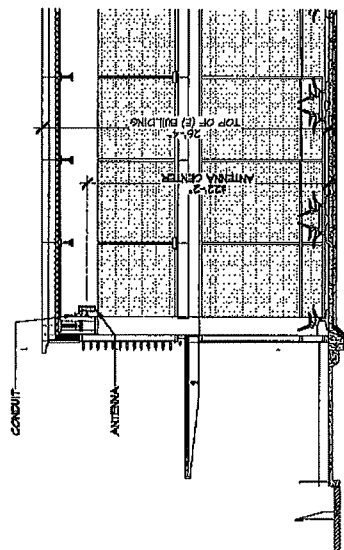
A-8.0
 SHEET TITLE
ANTENNA PLAN & ELEVATION (AT SOUTH GATES)

LEGEND
 (A) Panel Antenna (See 10A-10, 117' H x 122' W x 47' D)
 Conax Cable

NOTE:
 INSTALL JUNCTION BOXES AS REQUIRED (AT WALL PENETRATIONS, WIRE CONDUITS DIVERGE, ETC.) SEE 21A-10 FOR SPECIFICATIONS.

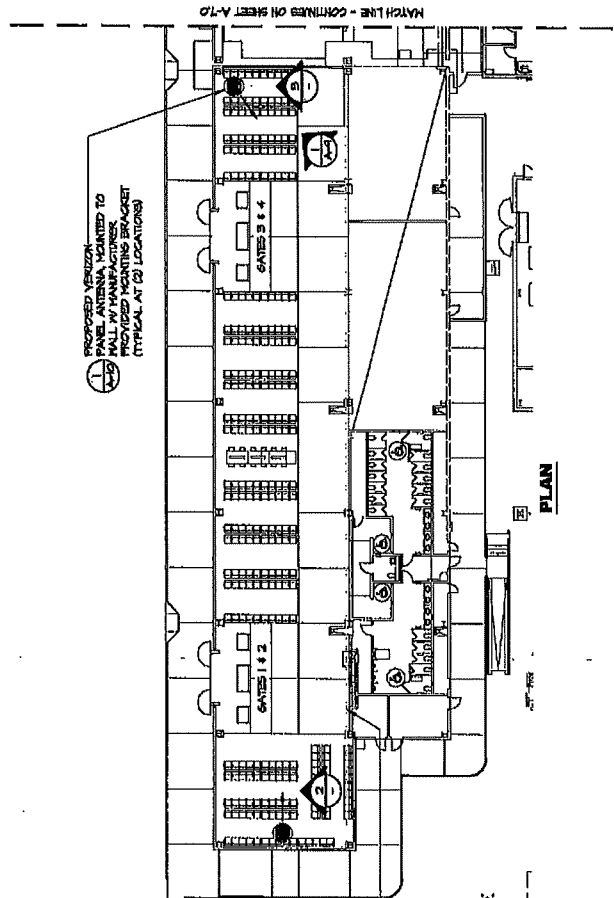


2 PARTIAL ELEVATION



3 PARTIAL ELEVATION

NOTE: CENTER ANTENNAS BETWEEN WINDOW MULLIONS.



PLAN

PROPOSED VERIZON PANEL ANTENNA MOUNTED TO WALL AT MANUFACTURER PROVIDED MOUNTING BRACKET (TYPICAL AT 20 LOCATIONS)

PROPOSED VERIZON COAX CABLES:
 - (1) 2" DIA CONDUIT RUN FROM THE RADIO UNIT HOLES TO EACH ANTENNA. CONDUIT PENETRATES THE WALL AT THE CEILING LINE, IS THEN ROUTED ALONG THE INSIDE OF THE CEILING AT THE BUILDING INTERIOR. (V)



| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|--------|------|---------------------|----|
| 1 | ISSUED | | PERMIT SUBMITTAL | MM |
| 2 | ISSUED | | PERMIT CONSTRUCTION | MM |
| 3 | ISSUED | | PERMIT COMPLETION | MM |
| 4 | ISSUED | | | MM |
| 5 | ISSUED | | | MM |
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| 7 | ISSUED | | | MM |
| 8 | ISSUED | | | MM |
| 9 | ISSUED | | | MM |
| 10 | ISSUED | | | MM |

FULSANG ARCHITECTURE
 1655 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

Verizon
 1655 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



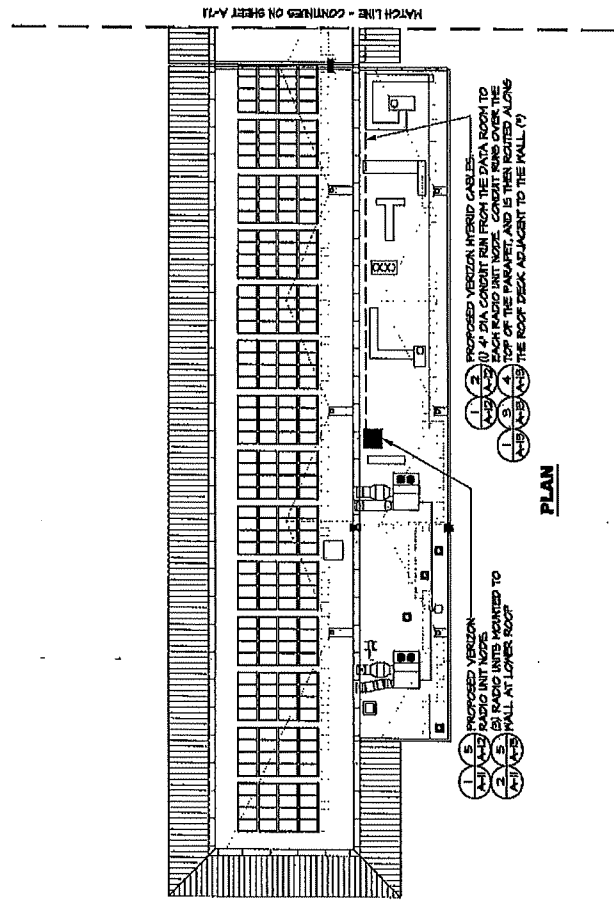
LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

A-8.1
 SHEET TITLE
ROOF PLAN (AT SOUTH GATES)

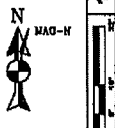
LEGEND

□ Radio Unit Node (See 14A-11 & 21A-11, (R) Radio Units Node)
 --- Coax Cable
 --- Hybrid Cable

NOTE:
 INSTALL JUNCTION BOXES AS REQUIRED (AT WALL PENETRATIONS, WHERE CONDUITS DIVERGE, ETC.) SEE 21A-6 FOR SPECIFICATIONS.



PLAN



SCALE: 1/8" = 1'-0"
 1/4" = 3'-0"
 1/2" = 6'-0"
 3/4" = 9'-0"
 1" = 12'-0"

ROOF PLAN (AT SOUTH GATES)

| ISSUE STATUS | REV. | DATE | DESCRIPTION | BY |
|--------------|----------|------|---------------------|----|
| 0 | INITIALS | | PERMIT SUBMITTAL | MM |
| 1 | ISSUED | | FINAL COMMISSIONING | JM |
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FULSANG ARCHITECTURE
 1000 S. GARDEN AVENUE
 SUITE 1000
 ANAHEIM, CA 92815
 TEL: 714.938.8888
 WWW.FULSANGARCHITECTURE.COM

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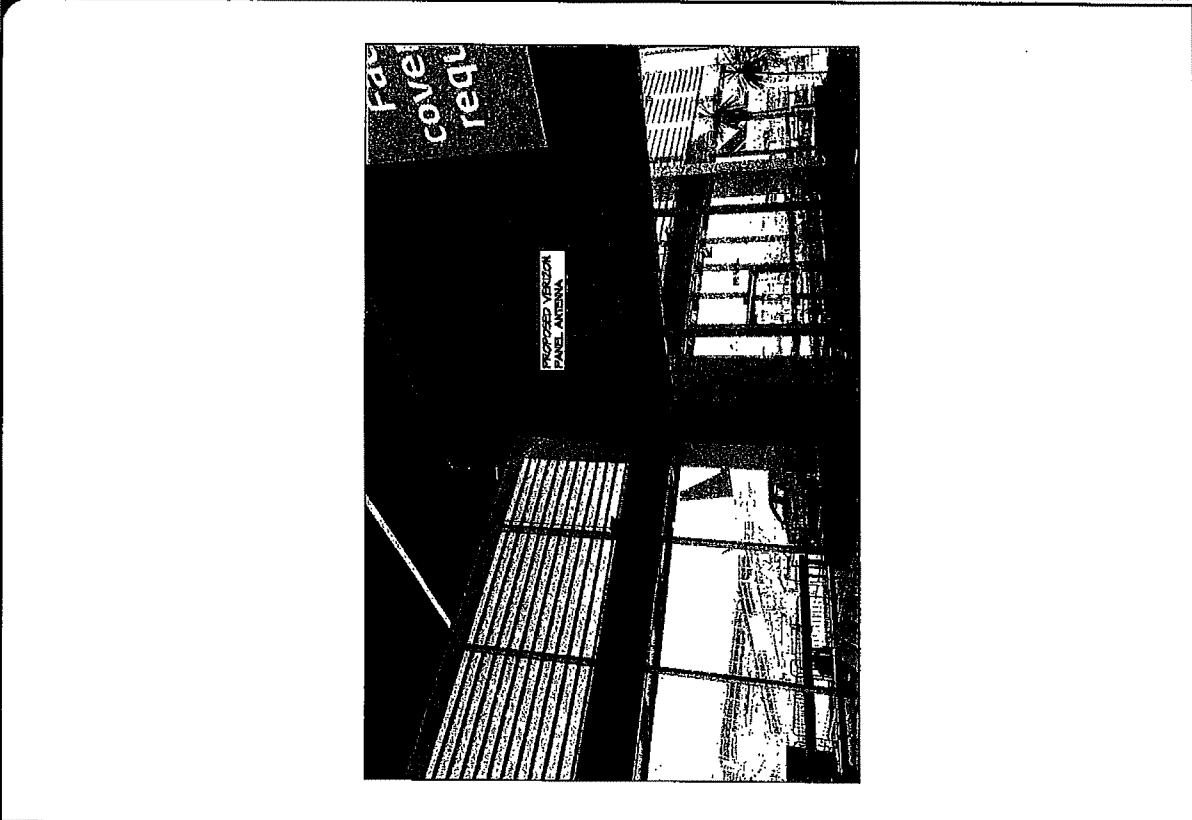
Verizon
 16505 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE:
PHOTOSIMULATIONS

A-9



1 AT SOUTH GATES



2 AT OUTDOOR GARDEN

NOTE:
 ALL ANTENNAS SHALL MATCH THE COLOR OF THEIR MOUNTING SURFACE OR BE WRAPPED IN SKY CONCEALMENT FILM, AS APPLICABLE.

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|-------------------------|------|-------------|----|
| 0 | PRELIMINARY | | | |
| 1 | ISSUED FOR PERMITS | | | |
| 2 | ISSUED FOR CONSTRUCTION | | | |
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FULSANG ARCHITECTURE
 18505 SAND CANYON AVENUE, D1
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 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

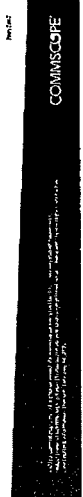
SHEET TITLE:
ANTENNA SPECIFICATIONS

A-10

CMAX-DMF-43-UW-153

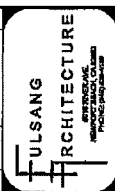
Low Power Directional MIMO In-Building Antenna, 607-860 MHz, 2495-2700 MHz, 3500-4000MHz, and 4820-5000MHz, 43-50, 62 PORTS, 517-560 and 1595-1700MHz, 2 PORTS, 3900-4000 and 4800-6000MHz

Product Classification
 Product Type: MIMO In-Building Antenna
 Application: In-Building
 Antenna Type: Directional
 Antenna Array Configuration: 4x4 MIMO
 Polarization: Vertical
 Color: Silver
 Mounting: Pole Mount
 Frequency Range: 607-860 MHz, 2495-2700 MHz, 3500-4000 MHz, 4820-5000 MHz
 Port Configuration: 43, 50 Ports
 Dimensions:
 Height: 22.0mm | 4.724ft
 Width: 145.0mm | 3.225ft
 Length: 482.0mm | 1.111ft
 Total Length: 650.0mm | 1.511ft
 Packaging and Weights:
 Height: 28.0mm | 2.8ft
 Width: 307.0mm | 12.874ft
 Length: 445.0mm | 10.334ft
 Weight: 4.8kg | 10.583lb
 Weight net: 3.1kg | 6.831lb
Regulatory Certifications
 Agency: FCC, CE, RoHS
 Certifications: FCC Part 15, CE, RoHS

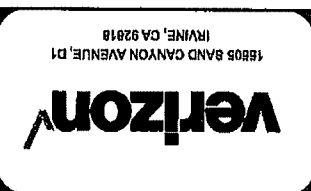


PANEL ANTENNA: COMMSCOPE CMAX-DMF-43-UW-153

| REV. | DATE | DESCRIPTION | BY |
|------|------|-------------|----|
| 1 | | ISSUES | |
| 2 | | REVISED | |
| 3 | | REVISED | |
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| 8 | | REVISED | |
| 9 | | REVISED | |
| 10 | | REVISED | |



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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
RADIO UNIT SPECIFICATIONS

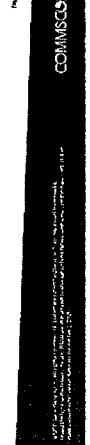
A-11

| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| 1 | | ISSUES | |
| 2 | | REVISED | |
| 3 | | REVISED | |
| 4 | | REVISED | |
| 5 | | REVISED | |
| 6 | | REVISED | |
| 7 | | REVISED | |
| 8 | | REVISED | |
| 9 | | REVISED | |
| 10 | | REVISED | |

7820478-0002 | CAP M7E/80-85/7E/19 F-DC

Camera Access Point with L-Band Support for Medium Power, LMR, ASL, USA, VDL, LMR, VDL, SWR, DDL, CEL, BSL, ANIS, 3000 and PCS 800 Applications, Four Port

Product Classification
 Product Type: Base Station
 General Specifications: 4-Port, L-Band Support, Medium Power, LMR, ASL, USA, VDL, LMR, VDL, SWR, DDL, CEL, BSL, ANIS, 3000 and PCS 800 Applications, Four Port
 Dimensions: 11.1 mm x 11.1 mm x 11.1 mm
 Weight: 1.1 kg
 Packaging and Weights: 10 units per box, 100 units per pallet

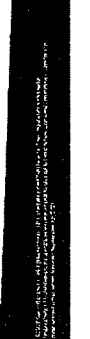


| NO. | DATE | DESCRIPTION | BY |
|-----|------|-------------|----|
| 1 | | ISSUES | |
| 2 | | REVISED | |
| 3 | | REVISED | |
| 4 | | REVISED | |
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| 6 | | REVISED | |
| 7 | | REVISED | |
| 8 | | REVISED | |
| 9 | | REVISED | |
| 10 | | REVISED | |

7851671-1001 | CAP M2 C-Band F-AC

Camera Access Point with MIMO 2x2 Radio Module for Medium Power L-Band Applications, Four Port, AC

Product Classification
 Product Type: Base Station
 General Specifications: 4-Port, L-Band Support, Medium Power, LMR, ASL, USA, VDL, LMR, VDL, SWR, DDL, CEL, BSL, ANIS, 3000 and PCS 800 Applications, Four Port
 Dimensions: 11.1 mm x 11.1 mm x 11.1 mm
 Weight: 1.1 kg
 Packaging and Weights: 10 units per box, 100 units per pallet

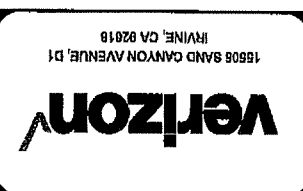


RADIO UNIT: COMMSCOPE 7820478

RADIO UNIT: COMMSCOPE 7851671

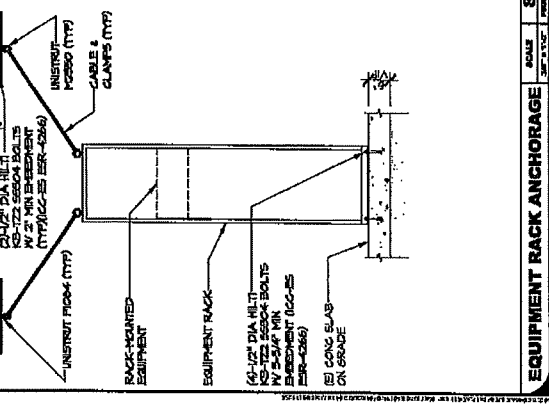
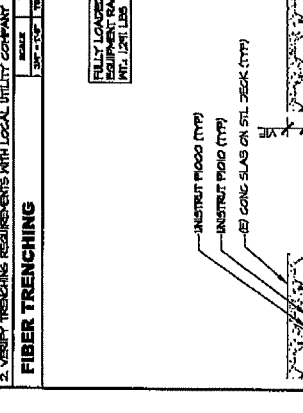
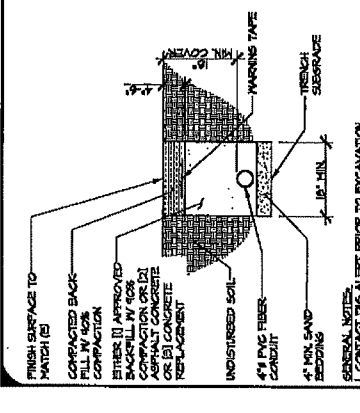
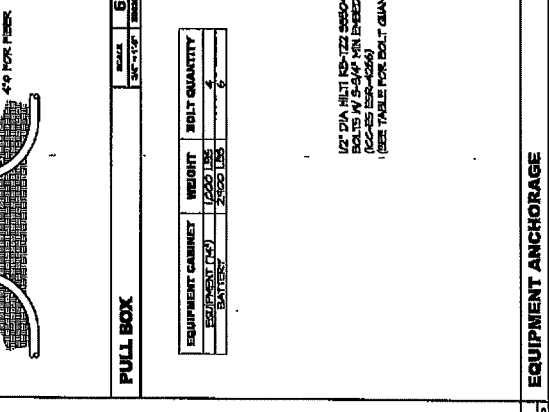
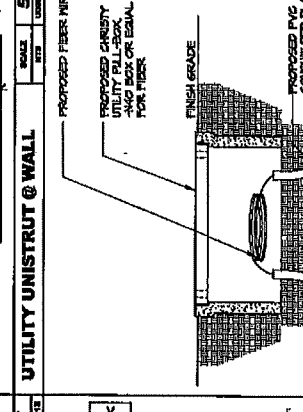
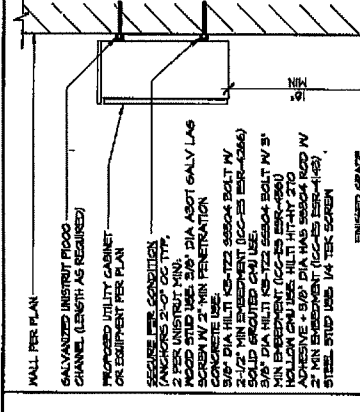
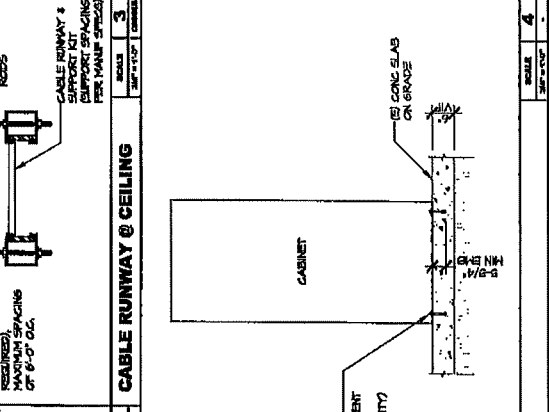
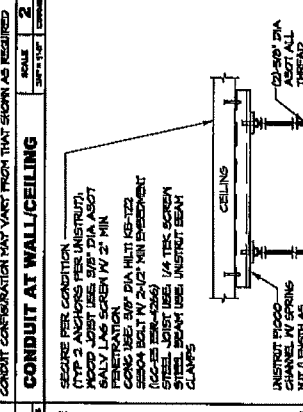
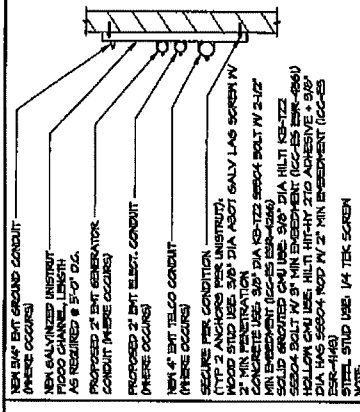
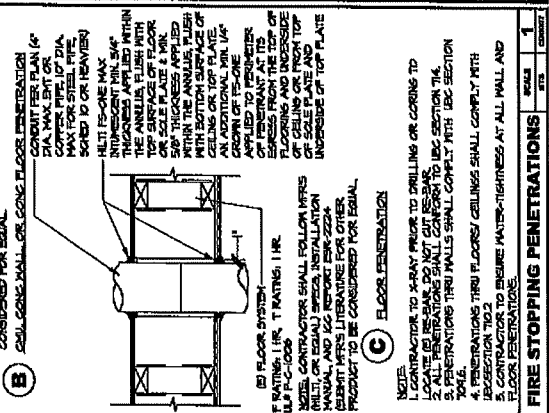
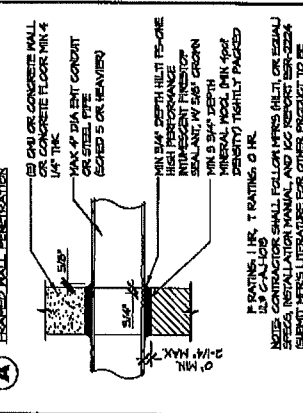
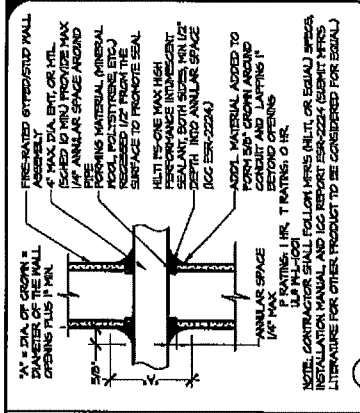
| ISSUE STATUS | NO. | DATE | DESCRIPTION |
|--------------|---------|----------|------------------|
| 1 | ISSUED | 10/15/10 | PRELIMINARY |
| 2 | REVISED | 11/15/10 | FOR CONSTRUCTION |

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LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

A-12
 DETAILS

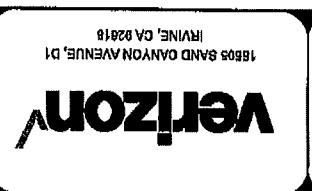


| ISSUE STATUS | NO. | DATE | DESCRIPTION |
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| 1 | ISSUED | 10/15/10 | PRELIMINARY |
| 2 | REVISED | 11/15/10 | FOR CONSTRUCTION |

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|--------------|--------|------|------------------|----|
| 1 | ISSUED | | FOR CONSTRUCTION | MM |
| 2 | ISSUED | | FOR CONSTRUCTION | MM |
| 3 | ISSUED | | FOR CONSTRUCTION | MM |
| 4 | ISSUED | | FOR CONSTRUCTION | MM |
| 5 | ISSUED | | FOR CONSTRUCTION | MM |
| 6 | ISSUED | | FOR CONSTRUCTION | MM |
| 7 | ISSUED | | FOR CONSTRUCTION | MM |
| 8 | ISSUED | | FOR CONSTRUCTION | MM |
| 9 | ISSUED | | FOR CONSTRUCTION | MM |
| 10 | ISSUED | | FOR CONSTRUCTION | MM |

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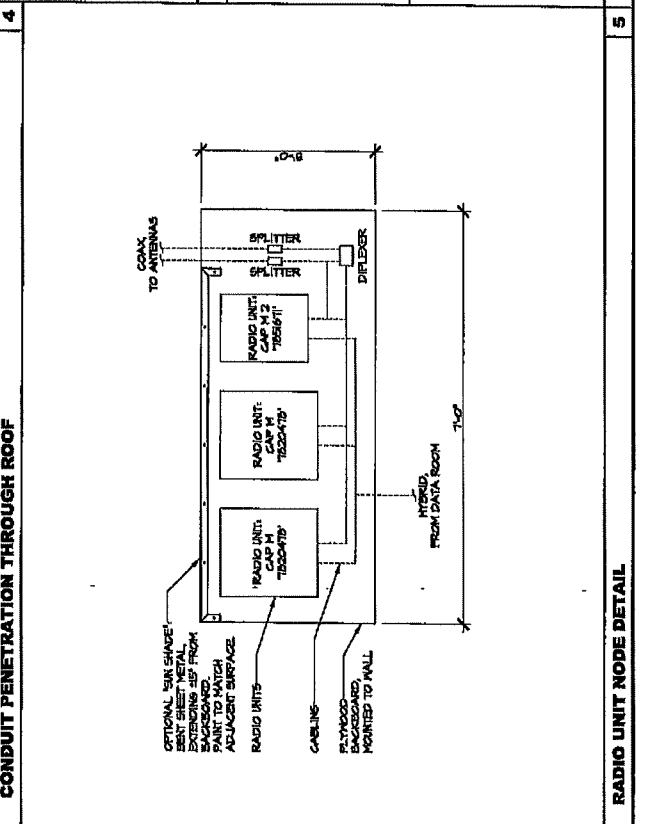
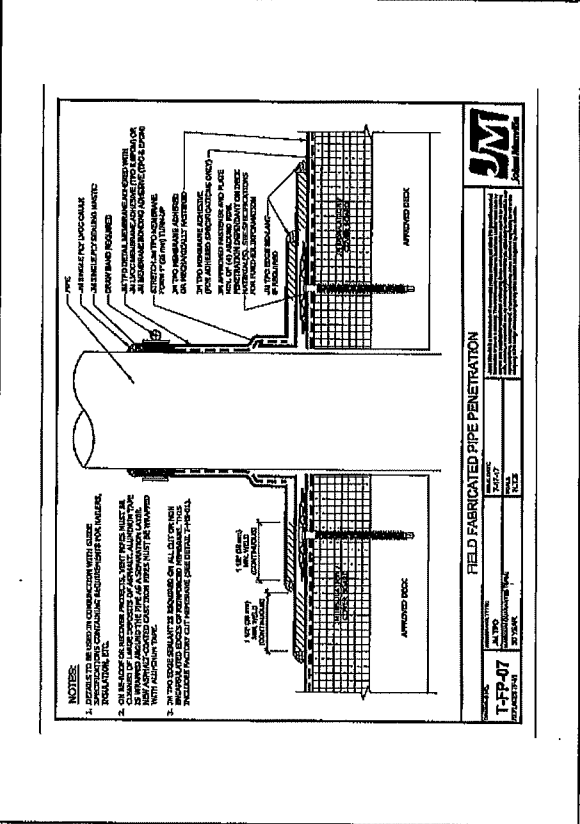
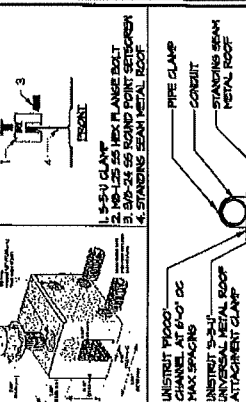
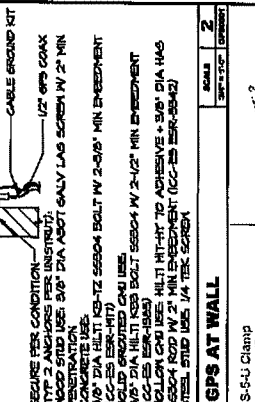
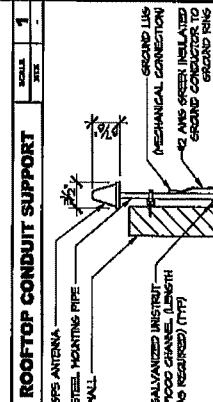
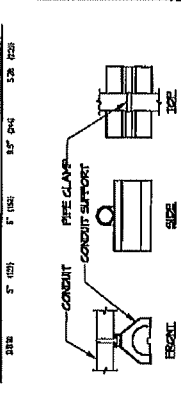
LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
DETAILS

A-13

DURA-BLOK® Rooftop Supports
 BB - Series
 Base width: Channel, 4" Dia. x 1/2" High
 Dimensions: 5" x 5" x 5" High, 4" x 5" High, 5" x 5" High
 Weight: 1.2 lbs. per ft. (Channel), 1.5 lbs. per ft. (5" x 5" x 5")
 Ultimate Load Capacity: 5000 lbs. (Channel), 6000 lbs. (5" x 5" x 5")
 Part No. 3818

| Part No. | Height | Width | Weight | Ultimate Load Capacity |
|----------|----------|----------|------------------|------------------------|
| 3818 | 5" (125) | 5" (125) | 1.2 lbs. per ft. | 5000 lbs. |
| | | | 1.5 lbs. per ft. | 6000 lbs. |



CONDUIT PENETRATION THROUGH ROOF

FIELD FABRICATED PIPE PENETRATION

UNISTRUT CHANNELS SHOULD BE INSTALLED ON ROOFS WITH SLOPES TO PREVENT WATER PENETRATION.

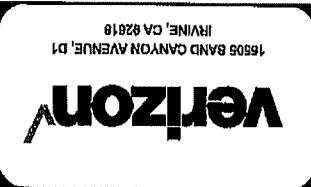
RADIO UNIT NODE DETAIL

OPTIONAL 'SUN SHADE' DETAIL SHOWN. UNISTRUT CHANNELS SHOULD BE INSTALLED ON ROOFS WITH SLOPES TO PREVENT WATER PENETRATION.

| ISSUE STATUS | NO. | DATE | DESCRIPTION | BY |
|--------------|---------|------|------------------|----|
| 1 | REVISED | | PERMIT SUBMITTAL | MM |
| 2 | REVISED | | PERMIT SUBMITTAL | MM |
| 3 | REVISED | | PERMIT SUBMITTAL | MM |
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| 9 | REVISED | | PERMIT SUBMITTAL | MM |
| 10 | REVISED | | PERMIT SUBMITTAL | MM |

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VERIZON
 18505 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

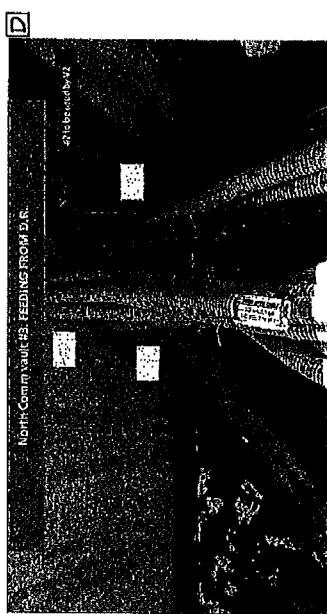
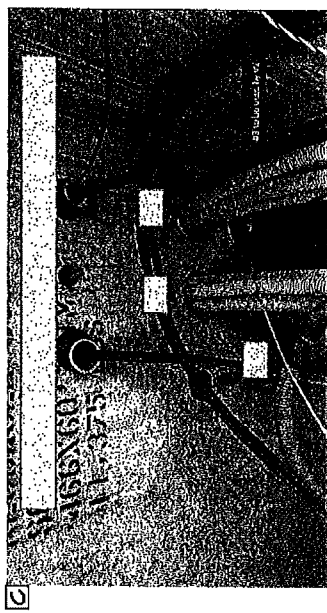
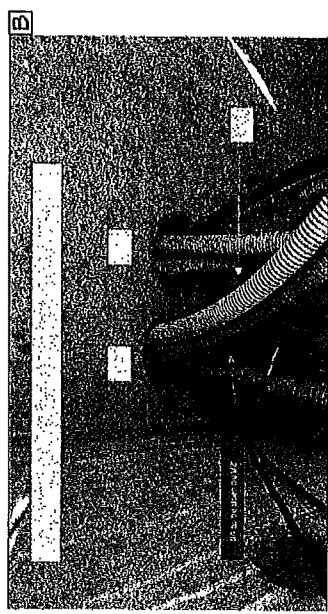
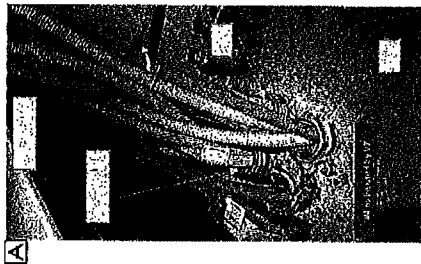


LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE:
INTERIOR CONDUIT ROUTING

A-14

- A. STANDING FROM DATA ROOM (NORTH) VZFRONTIER SHALL USE CONDUIT #4 LABELED IN BLUE.
- B. VAULT #4, VZFRONTIER SHALL USE CONDUIT #4 LABELED IN BLUE.
- C. LEAVING VAULT #4 TO VAULT #3, VZFRONTIER SHALL USE CONDUIT #3 LABELED IN BLUE.
- D. VAULT #3, VZFRONTIER SHALL USE CONDUIT #2 LABELED IN BLUE.
- E. (NOTE: NO PHOTO) LEAVING VAULT #3 TO JUNCTION BOX AT BASEMENT, VZFRONTIER SHALL USE CONDUIT WITH THE 4 ORANGE INNER DIACT THAT ARE IN THE VAULT. HOWEVER, VZFRONTIER SHALL INSTALL THEIR OWN INNER DIACT.
- F. AT THE BASEMENT, VZFRONTIER SHALL USE CONDUIT LABELED 'N' IN RED ROOM IF VAULT #1 WILL LEAD TO THE SOUTH VAULTS FOR AN ADDITIONAL PAIR FOR FIBER.



| ISSUE STATUS | BY | DATE | DESCRIPTION |
|--------------|----------|------------|--------------------|
| 0 | DESIGNED | 10/15/2018 | PRELIMINARY DESIGN |
| 1 | APPROVED | 10/15/2018 | FINAL DESIGN |

FULSANG ARCHITECTURE
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808
 (562) 433-8888
 WWW.FULSANGARCHITECTURE.COM

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Verizon
 16606 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

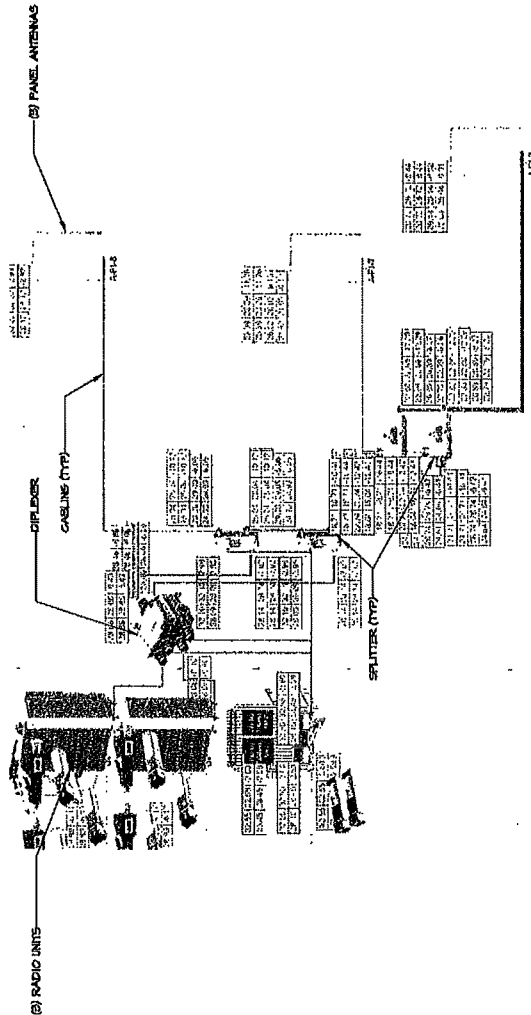


LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

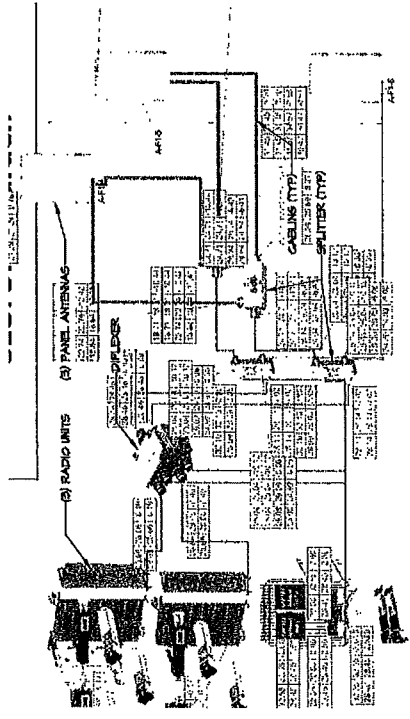
SHEET TITLE:
ANTENNA DESIGN DIAGRAMS

A-15

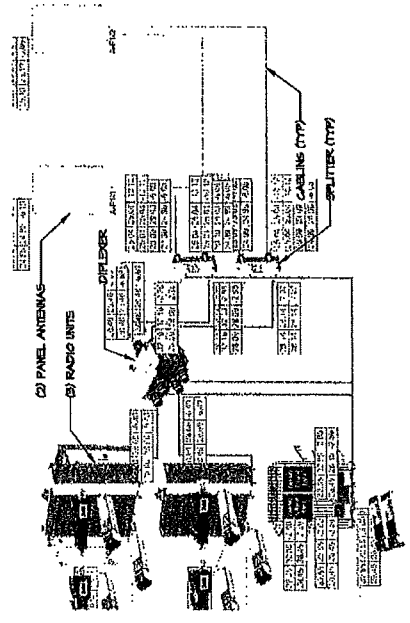
NORTH GATES SECTOR:



OUTDOOR GARDEN SECTOR:



SOUTH GATES SECTOR:



| ISSUE | DATE | DESCRIPTION | BY |
|-------|------|--------------------------------|----|
| 0 | | PRELIMINARY DRAWING | BR |
| 1 | | REVISED PER ARCHITECTURAL MARK | |

| REV | DATE | DESCRIPTION | BY | CHK |
|-----|----------|--------------------------------|----|-----|
| 1 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |
| 2 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |
| 3 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |
| 4 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |
| 5 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |
| 6 | 10/11/17 | REVISED PER ARCHITECTURAL MARK | BR | BR |

FULSANG ARCHITECTURE
 400 RIVINGTON ST.
 SAN FRANCISCO, CA 94133
 TEL: 415.362.2345
 WWW.FULSANGARCHITECTURE.COM

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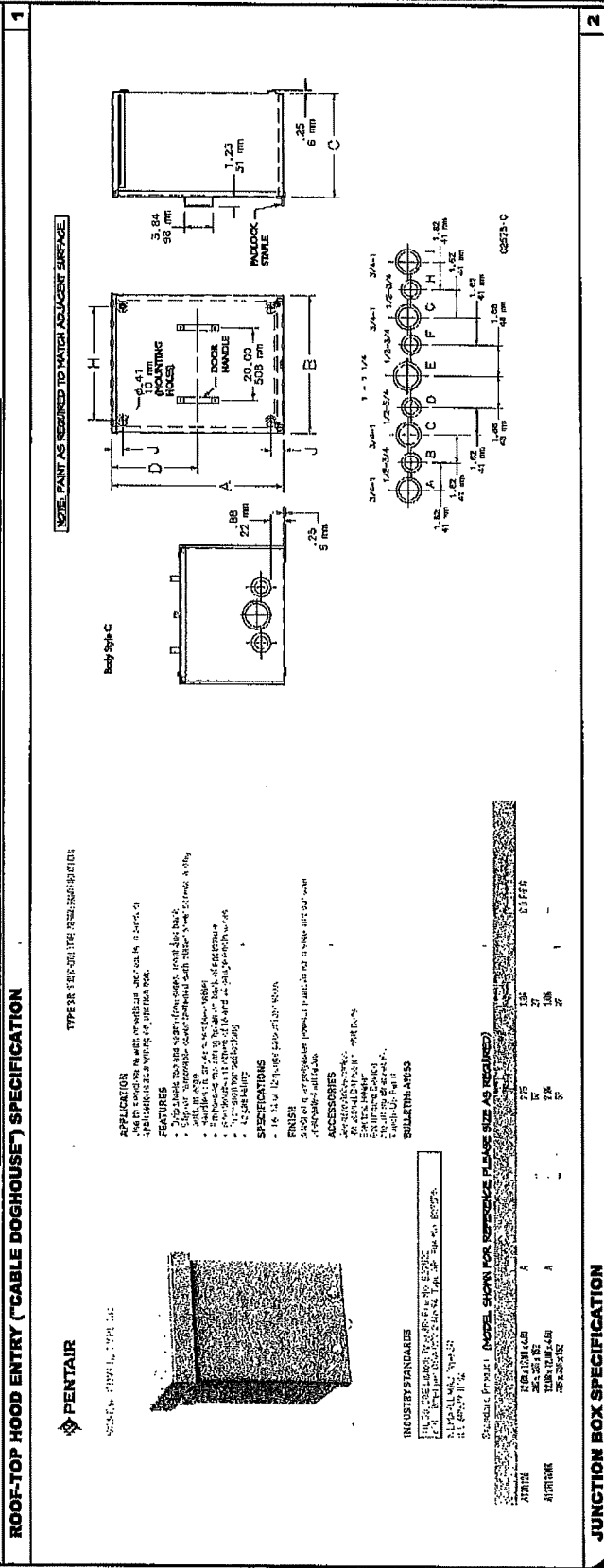
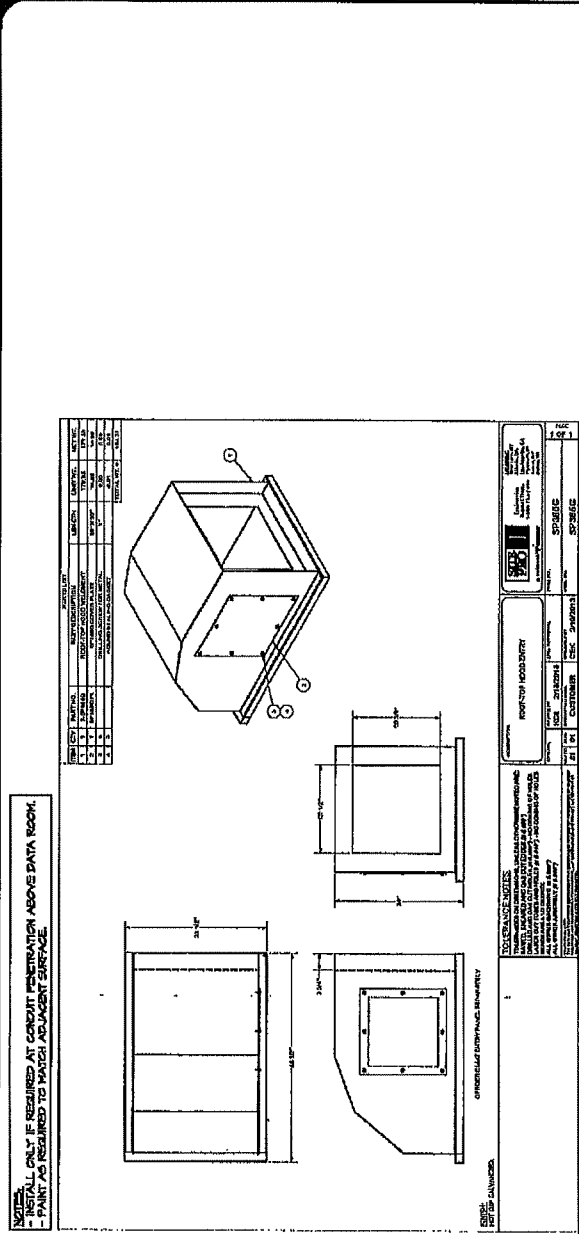
Verizon
 18508 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



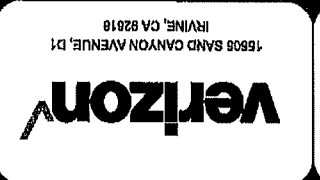
LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

SHEET TITLE
SPECIFICATIONS

A-16



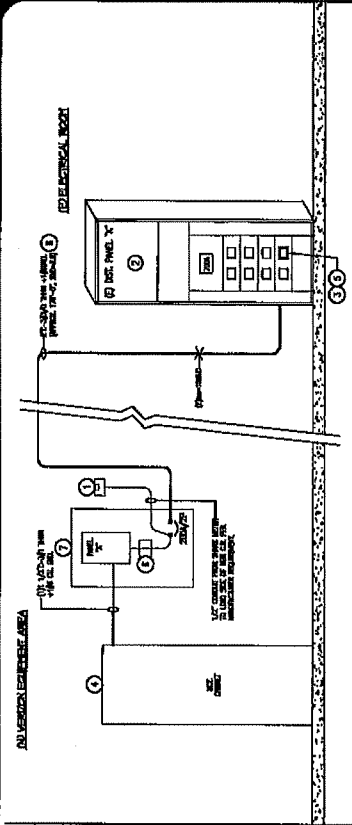
| ISSUE | DATE | DESCRIPTION | BY |
|-------|------|------------------------|----|
| 0 | | PRELIMINARY | |
| 1 | | REVISED FOR ELECTRICAL | |



LONG BEACH
AIRPORT - IDAS
(PHASE 1)
4100 DONALD DOUGLAS DR.
LONG BEACH, CA 90808

SHEET TITLE:
ELECTRICAL
GENERAL NOTES, S.I.D.,
& PANEL SCHEDULE

E-1



- KEY NOTES:**
1. 100 AMP SERVICE SHALL BE INSTALLED PER 100 AMP SERVICE PANEL PER THE MANUFACTURER'S REQUIREMENTS.
 2. EXISTING 100 AMP SERVICE SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.
 3. NEW 200 AMP SERVICE SHALL BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS.
 4. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
 5. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
 6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
 7. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
 8. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.

SINGLE LINE DIAGRAM

| DESCRIPTION | AMPERES | VOLTS | PHASES | WIRE SIZE | TYPE | NOTES |
|-----------------|---------|-------|--------|-----------|------|-----------------------|
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |

PANEL 'A' (PART OF AC CALC)

| TYPE | NO. | AMPERES | VOLTS | PHASES | WIRE SIZE | TYPE | NOTES |
|-----------------|-----|---------|-------|--------|-----------|-----------------------|-------|
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL | |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL | |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL | |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL | |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL | |

NOTES:

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
3. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
4. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
6. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
7. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.
8. ALL WORK SHALL BE IN ACCORDANCE WITH THE 2014 CALIFORNIA ELECTRICAL CODE.

GENERAL NOTES

1. **CONDUIT AND BENDS:** CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
2. **CONDUIT SIZES AND BENDS:** CONDUIT SIZES SHALL BE DETERMINED BY THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
3. **CONDUIT SUPPORT:** CONDUIT SHALL BE SUPPORTED BY CONDUIT RINGS OR CONDUIT BENDS. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
4. **CONDUIT MATERIALS:** CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
5. **CONDUIT INSTALLATION:** CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
6. **CONDUIT PROTECTION:** CONDUIT SHALL BE PROTECTED BY CONDUIT RINGS OR CONDUIT BENDS. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
7. **CONDUIT SIZES:** CONDUIT SIZES SHALL BE DETERMINED BY THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
8. **CONDUIT MATERIALS:** CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
9. **CONDUIT INSTALLATION:** CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
10. **CONDUIT PROTECTION:** CONDUIT SHALL BE PROTECTED BY CONDUIT RINGS OR CONDUIT BENDS. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
11. **CONDUIT SIZES:** CONDUIT SIZES SHALL BE DETERMINED BY THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
12. **CONDUIT MATERIALS:** CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
13. **CONDUIT INSTALLATION:** CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
14. **CONDUIT PROTECTION:** CONDUIT SHALL BE PROTECTED BY CONDUIT RINGS OR CONDUIT BENDS. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
15. **CONDUIT SIZES:** CONDUIT SIZES SHALL BE DETERMINED BY THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
16. **CONDUIT MATERIALS:** CONDUIT SHALL BE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
17. **CONDUIT INSTALLATION:** CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.
18. **CONDUIT PROTECTION:** CONDUIT SHALL BE PROTECTED BY CONDUIT RINGS OR CONDUIT BENDS. CONDUIT SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND APPLICABLE LOCAL ORDINANCES.

PANEL SCHEDULE

| DESCRIPTION | AMPERES | VOLTS | PHASES | WIRE SIZE | TYPE | NOTES |
|-----------------|---------|-------|--------|-----------|------|-----------------------|
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |
| 100 AMP SERVICE | 100 | 208 | 3 | 2/0 | THHN | 100 AMP SERVICE PANEL |

| REV. | DATE | DESCRIPTION | BY |
|------|------|--------------------------------|----|
| 1 | | PERMITTED PLUMBING CONNECTIONS | MM |
| 2 | | | |

FULSANG ARCHITECTURE

2010 CALIFORNIA STATE BOARD OF ARCHITECTURE REG. NO. 20190
 1555 CALIFORNIA STREET, SUITE 100, SANTA MONICA, CA 90401
 TEL: (310) 373-9139 FAX: (310) 373-9138
 WWW.FULSANGARCHITECTURE.COM

vertizon

16605 SAND CANYON AVENUE, D1
 IRVINE, CA 92618

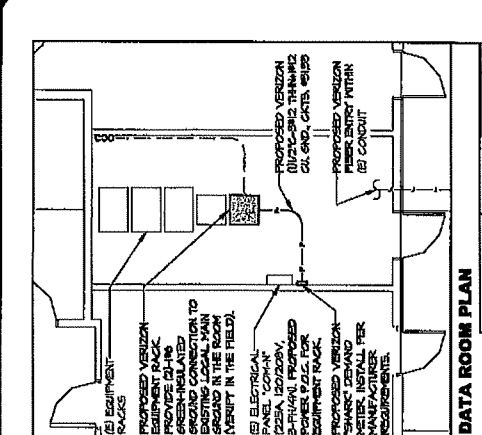


LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

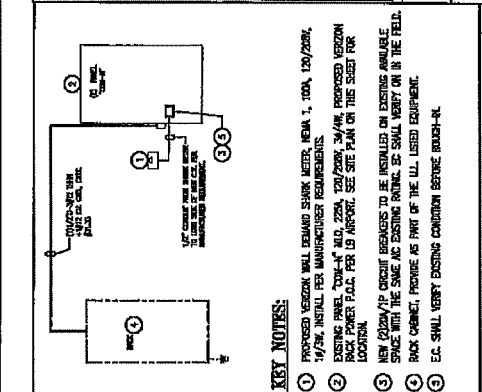
ISSUE STATUS

SHEET TITLE
ELECTRICAL PLAN (AT NORTH GATES)

E-4



3 PARTIAL SINGLE LINE DIAGRAM

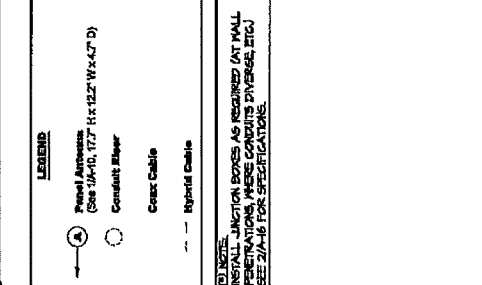


2 DATA ROOM PLAN

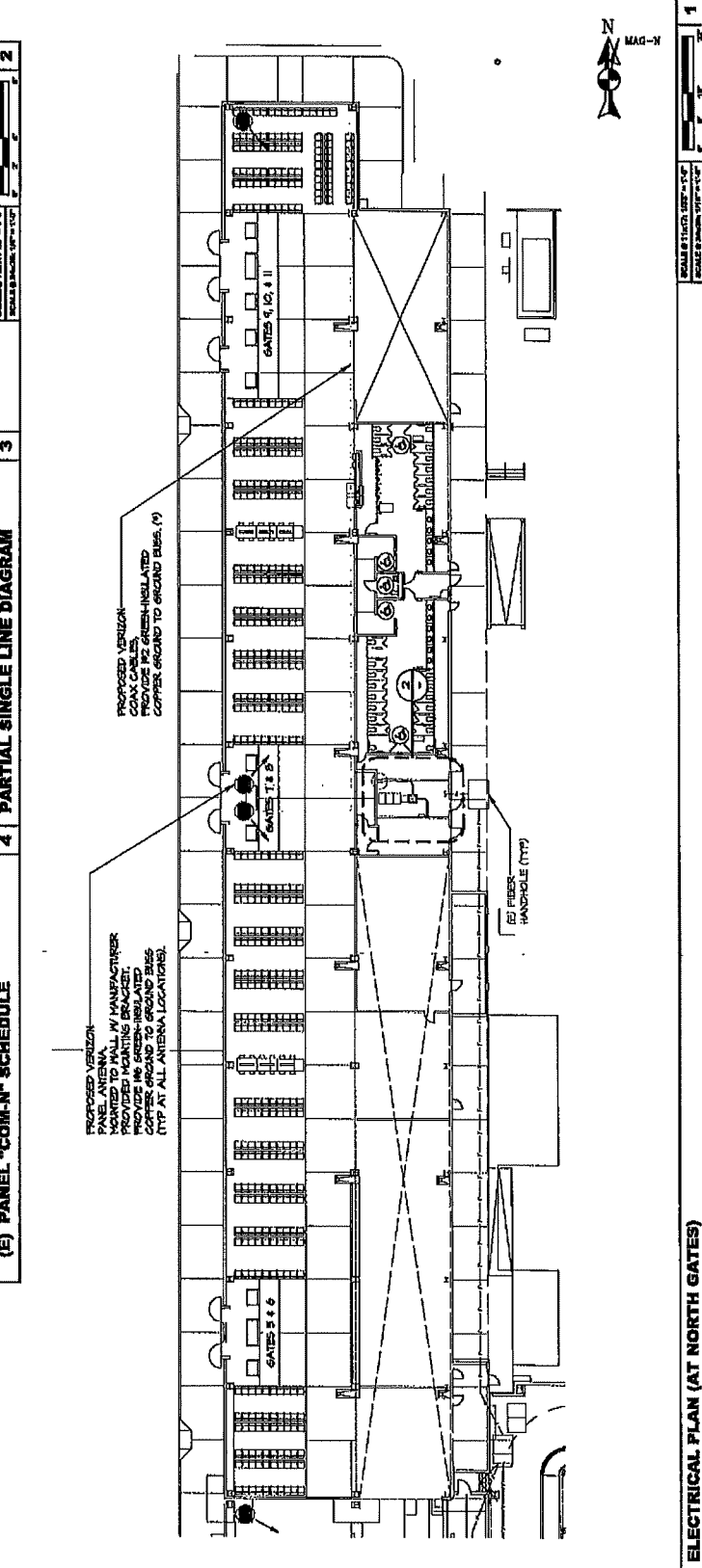
4 (E) PANEL "COM-N" SCHEDULE

| CIRCUIT NO. | DESCRIPTION | LOAD | PROTECTION | CONTROL | INSTALLATION | TERMINALS | NOTES |
|-------------|-------------|------|------------|---------|--------------|-----------|-------|
| 1 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 2 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 3 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 4 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 5 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 6 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 7 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 8 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 9 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |
| 10 | 200V/200V | 200V | 200V | 200V | 200V | 200V | |

4 (E) PANEL "COM-N" SCHEDULE



1 ELECTRICAL PLAN (AT NORTH GATES)



SHEET TITLE
ELECTRICAL PLAN (AT NORTH GATES)

E-4

ELECTRICAL PLAN (AT NORTH GATES)

| ISSUE | DATE | DESCRIPTION | BY |
|-------|------|-----------------------------|-----|
| 1 | | ISSUED FOR PERMIT SUBMITTAL | MMT |
| 2 | | ISSUED FOR PERMIT SUBMITTAL | MMT |
| 3 | | ISSUED FOR PERMIT SUBMITTAL | MMT |
| 4 | | ISSUED FOR PERMIT SUBMITTAL | MMT |

TULSANG ARCHITECTURE
 ARCHITECTS
 1500 AVENUE 10
 SUITE 1000
 IRVINE, CA 92618

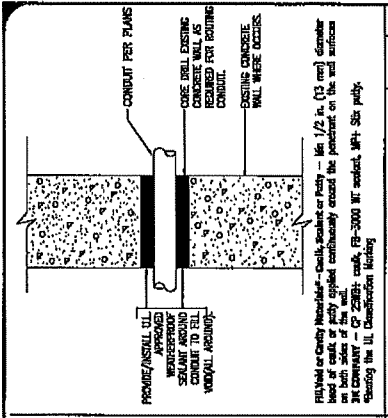
Verizon
 15005 SAND CANYON AVENUE, D1
 IRVINE, CA 92618



LONG BEACH AIRPORT - IDAS (PHASE 1)
 4100 DONALD DOUGLAS DR.
 LONG BEACH, CA 90808

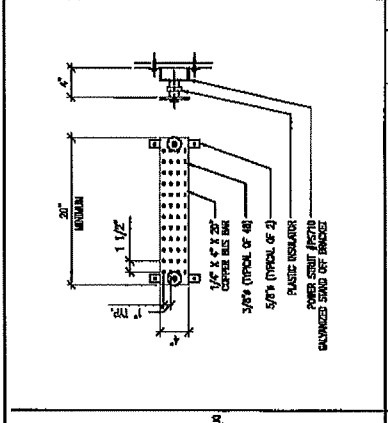
SHEET TITLE:
ELECTRICAL DETAILS

E-5



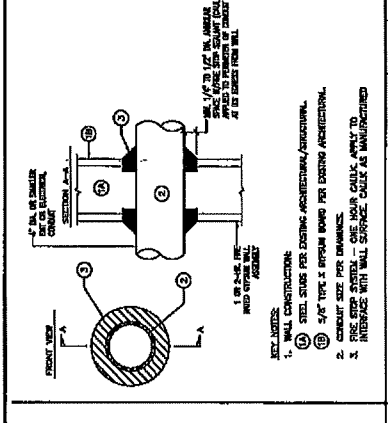
CONDUIT PENETRATION AT EXTERIOR WALL SCALE: 1/2" = 1'-0"

FILL VOID AROUND CONDUIT WITH TYPE III PORTLAND CEMENT MORTAR TO FULL WALL THICKNESS. APPLY SEALANT TO FULL WALL THICKNESS. CONDUIT PERI PLANS TO BE MAINTAINED AS SHOWN. CORE DRILL EXISTING CONCRETE WALL AS SHOWN. EXISTING CONCRETE WALL WHERE EXISTING. FILL WITH TYPE III PORTLAND CEMENT MORTAR. CONCRETE TO FILL VOID AROUND CONDUIT TO FULL WALL THICKNESS.



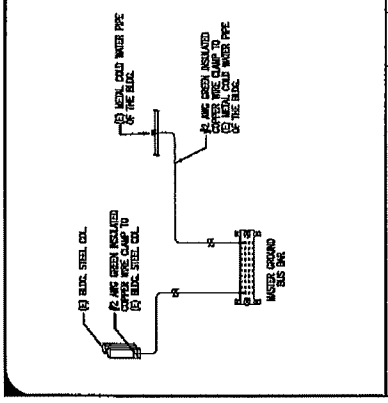
MAIN GROUND BUS BAR "WGB" SCALE: 1/2" = 1'-0"

POWER SOURCE TO BE MAINTAINED AS SHOWN. BALANCED SOURCE OF BRACES. 5/8" (TYPICAL OF 2) PLASTIC BRACKET. 1/4" X 1/2" X 2" COPPER BUS BAR. 3/4" (TYPICAL OF 4) PLASTIC BRACKET.



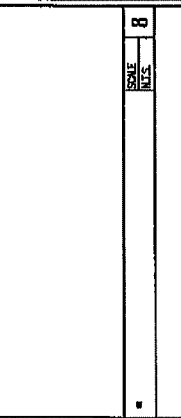
CONDUIT PENETRATION DETAIL SCALE: 1/2" = 1'-0"

1. WALL CONSTRUCTION.
 2. CONDUIT PENETRATION DETAIL.
 3. INTERFERENCE WITH WALL SURFACE SHALL BE MAINTAINED AS SHOWN.



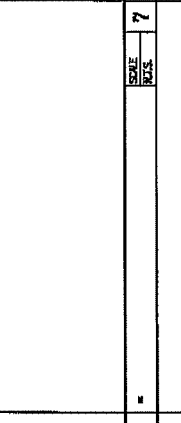
GROUND DETAIL SCALE: 1/2" = 1'-0"

GROUNDING CLAMP TO METAL COLD WATER PIPE. GROUNDING CLAMP TO METAL COLD WATER PIPE. GROUNDING CLAMP TO METAL COLD WATER PIPE. GROUNDING CLAMP TO METAL COLD WATER PIPE.



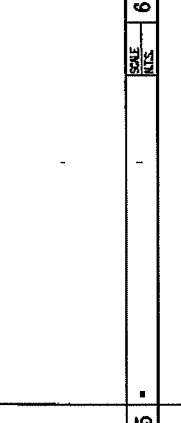
ANTENNA CABLE GROUND KIT SCALE: 1/2" = 1'-0"

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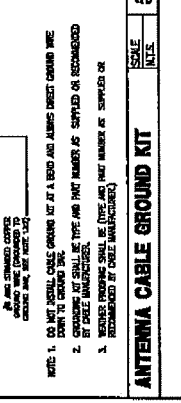
CONDUIT PENETRATION DETAIL SCALE: 1/2" = 1'-0"

1. WALL CONSTRUCTION.
 2. CONDUIT PENETRATION DETAIL.
 3. INTERFERENCE WITH WALL SURFACE SHALL BE MAINTAINED AS SHOWN.



MAIN GROUND BUS BAR "WGB" SCALE: 1/2" = 1'-0"

POWER SOURCE TO BE MAINTAINED AS SHOWN. BALANCED SOURCE OF BRACES. 5/8" (TYPICAL OF 2) PLASTIC BRACKET. 1/4" X 1/2" X 2" COPPER BUS BAR. 3/4" (TYPICAL OF 4) PLASTIC BRACKET.



CONDUIT PENETRATION AT EXTERIOR WALL SCALE: 1/2" = 1'-0"

FILL VOID AROUND CONDUIT WITH TYPE III PORTLAND CEMENT MORTAR TO FULL WALL THICKNESS. APPLY SEALANT TO FULL WALL THICKNESS. CONDUIT PERI PLANS TO BE MAINTAINED AS SHOWN. CORE DRILL EXISTING CONCRETE WALL AS SHOWN. EXISTING CONCRETE WALL WHERE EXISTING. FILL WITH TYPE III PORTLAND CEMENT MORTAR. CONCRETE TO FILL VOID AROUND CONDUIT TO FULL WALL THICKNESS.

| SCALE | SCALE | SCALE | SCALE |
|--------------|--------------|--------------|--------------|
| 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" |

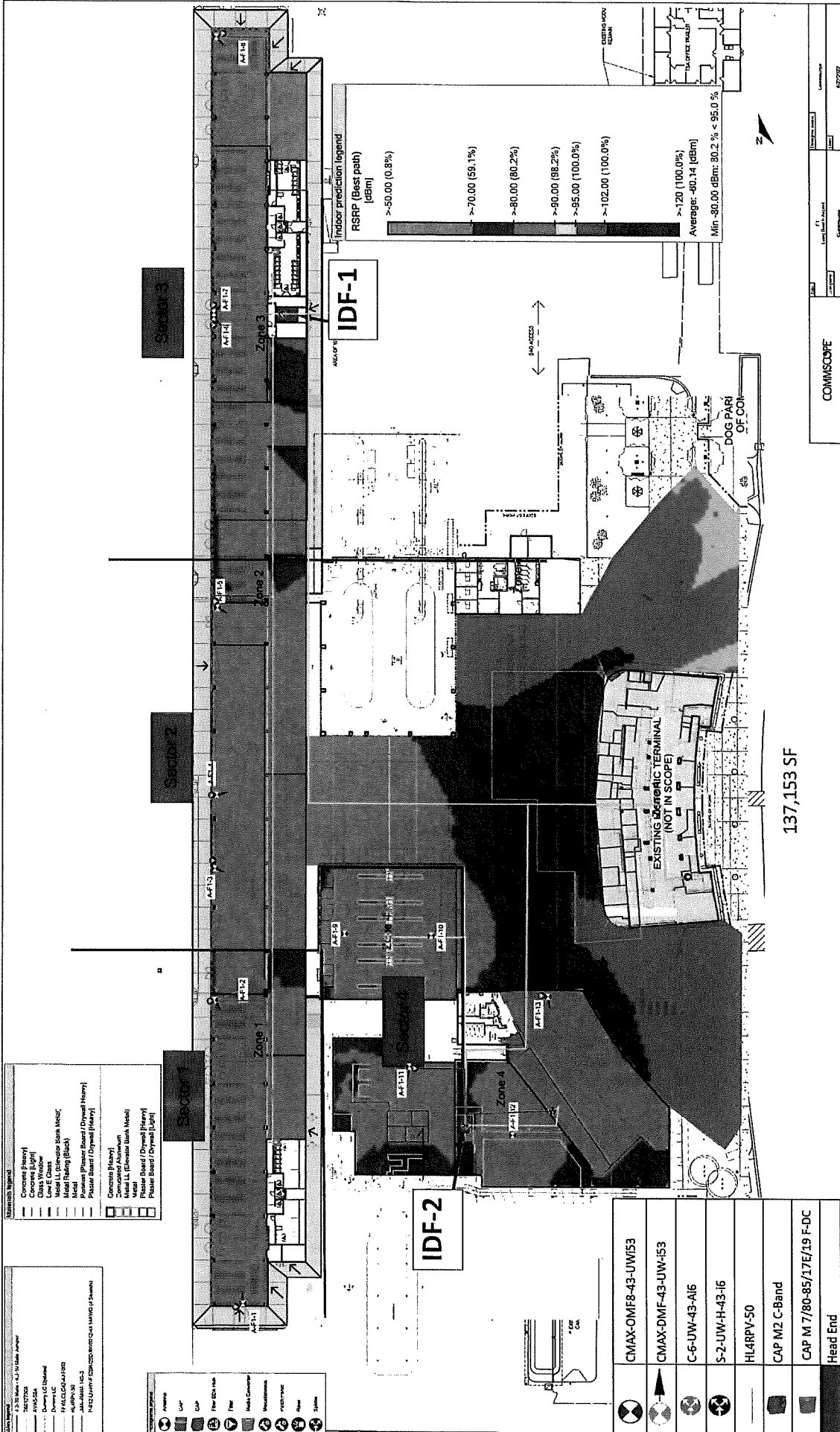
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| 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" |

| SCALE | SCALE | SCALE | SCALE |
|--------------|--------------|--------------|--------------|
| 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" |

| SCALE | SCALE | SCALE | SCALE |
|--------------|--------------|--------------|--------------|
| 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" | 1/2" = 1'-0" |

APPENDIX B
COVERAGE AREA

See Attached.



Materials Legend

- Concrete (Heavy)
- Concrete (Light)
- Glass Window
- Low E Glass
- Single Pane Glass
- Insulated Glass Unit
- Metal Finishing (Black)
- Metal
- Polystyrene (Rigid) (Drywall Heavy)
- Polystyrene (Rigid) (Drywall Light)
- Concrete (Heavy)
- Concrete (Light)
- Metal (Aluminum)
- Metal (Steel)
- Metal (Galvanized Steel)
- Metal (Copper)
- Metal (Stainless Steel)
- Metal (Titanium)
- Plaster Board (Drywall Heavy)
- Plaster Board (Drywall Light)
- Paint Board (Drywall Light)

Equipment Legend

- AP-1
- AP-2
- AP-3
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- AP-100

Equipment Legend

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- AP-100

| | |
|--|---------------------------|
| | C-MAX-OMF8-43-UW-I53 |
| | C-MAX-DMF-43-UW-I53 |
| | C-6-UW-43-A16 |
| | S-2-UW-H-43-I6 |
| | HL4RPV-50 |
| | CAP M2 C-Band |
| | CAP M 7/80-85/17E/19 F-DC |
| | Head End |

Indoor Prediction Legend

RSPC (best path) (dBm)

- >-50.00 (0.8%)
- >-70.00 (59.1%)
- >-80.00 (80.2%)
- >-90.00 (88.2%)
- >-95.00 (100.0%)
- >-102.00 (100.0%)

Average -80.14 (dBm)
Min -80.00 dBm: 80.2 % = 95.0 %

137,153 SF

COMMSCOPE

Project Name: [Blank]

Client: [Blank]

Revision: [Blank]

Date: [Blank]

Scale: [Blank]

Sheet: [Blank]

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Checker: [Blank]

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Materials Legend

| |
|---|
| Concrete (Grey) |
| Concrete (Light) |
| Glass Window |
| Steel Deck |
| Metal L.L. (Concrete Blank Metal) |
| Metal Railing (Black) |
| Blindwork (Blue) |
| Blindwork (Plastic Board / Drywall Heavy) |
| Plaster Board / Drywall (Heavy) |

Finish Legend

| |
|-----------------------------------|
| Concrete (Grey) |
| Concrete (Light) |
| Metal L.L. (Concrete Blank Metal) |
| Metal Railing (Black) |
| Plaster Board / Drywall (Light) |

Legend

| |
|-----------------|
| Antenna |
| CAP |
| Cell Phone |
| ETW |
| Fiber |
| Fiber Connector |
| Interconnect |
| Modem |
| Power |
| Shield |

Indoor Prediction Legend

RSRP (Best path) [dBm]

- >-50.00 (0.4%)
- >-70.00 (54.7%)
- >-80.00 (78.8%)
- >-90.00 (95.8%)
- >-95.00 (100.0%)
- >-102.00 (100.0%)

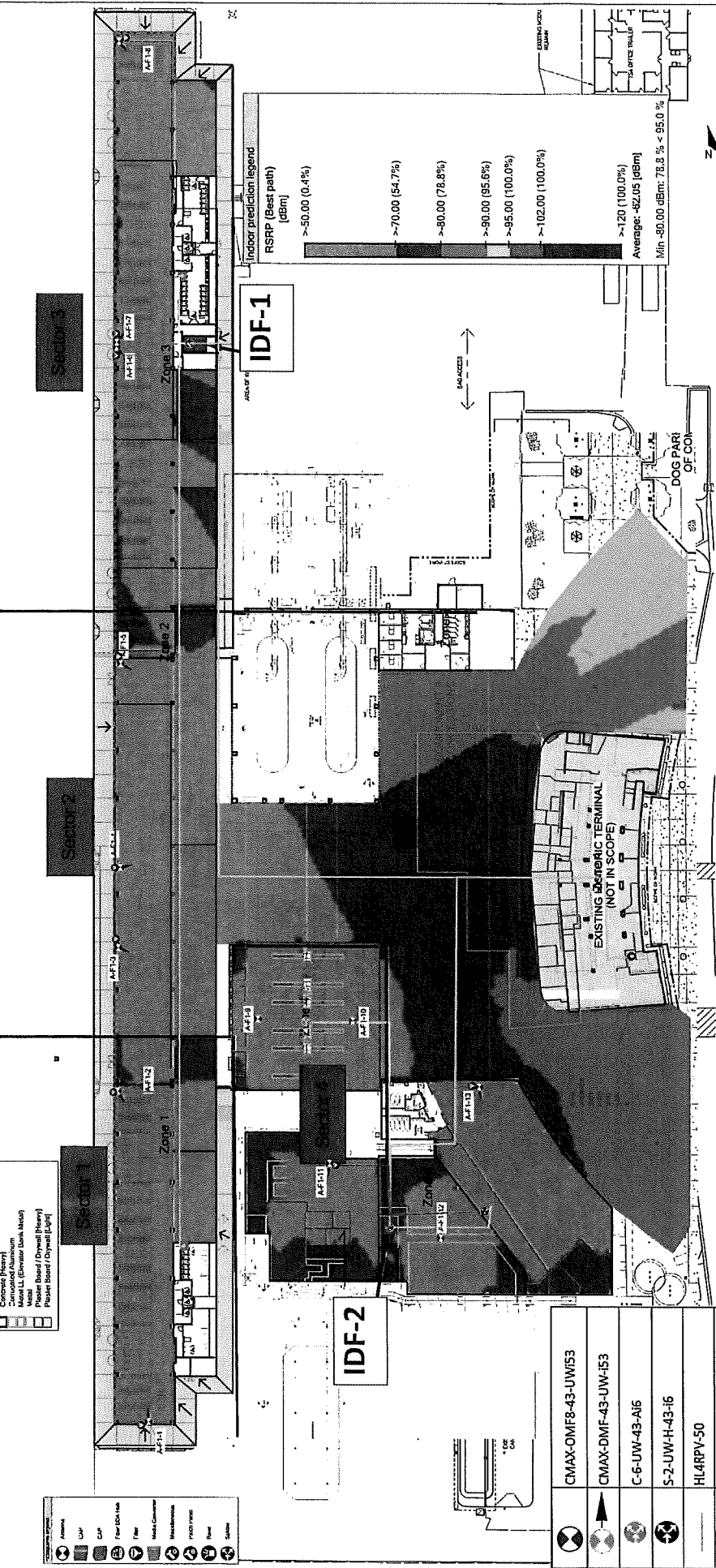
Average: -82.05 (dBm)
Min: -80.00 dBm: 78.8% < 95.0% >
>120 (100.0%)

Legend

| |
|---|
| Concrete (Grey) |
| Concrete (Light) |
| Glass Window |
| Steel Deck |
| Metal L.L. (Concrete Blank Metal) |
| Metal Railing (Black) |
| Blindwork (Blue) |
| Blindwork (Plastic Board / Drywall Heavy) |
| Plaster Board / Drywall (Heavy) |

Finish Legend

| |
|-----------------------------------|
| Concrete (Grey) |
| Concrete (Light) |
| Metal L.L. (Concrete Blank Metal) |
| Metal Railing (Black) |
| Plaster Board / Drywall (Light) |

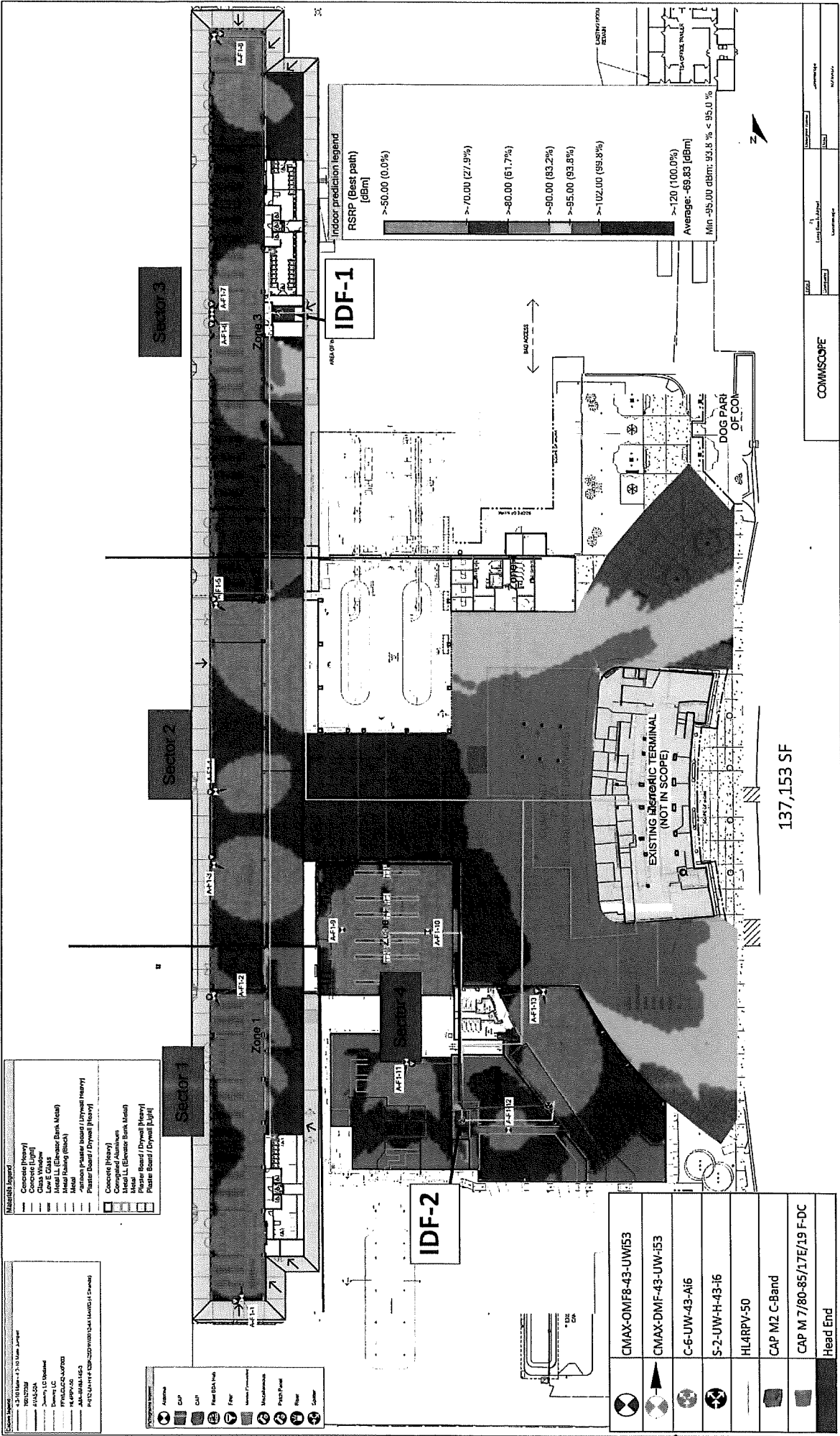


137,153 SF

| | |
|--|---------------------------|
| | CMAx-OMF8-43-UW153 |
| | CMAx-DMF-43-UW-153 |
| | C-6-UW-43-A16 |
| | S-2-UW-H-43-i6 |
| | HL4RPV-50 |
| | CAP M2 C-Band |
| | CAP M 7/80-85/17E/19 F-DC |
| | Head End |

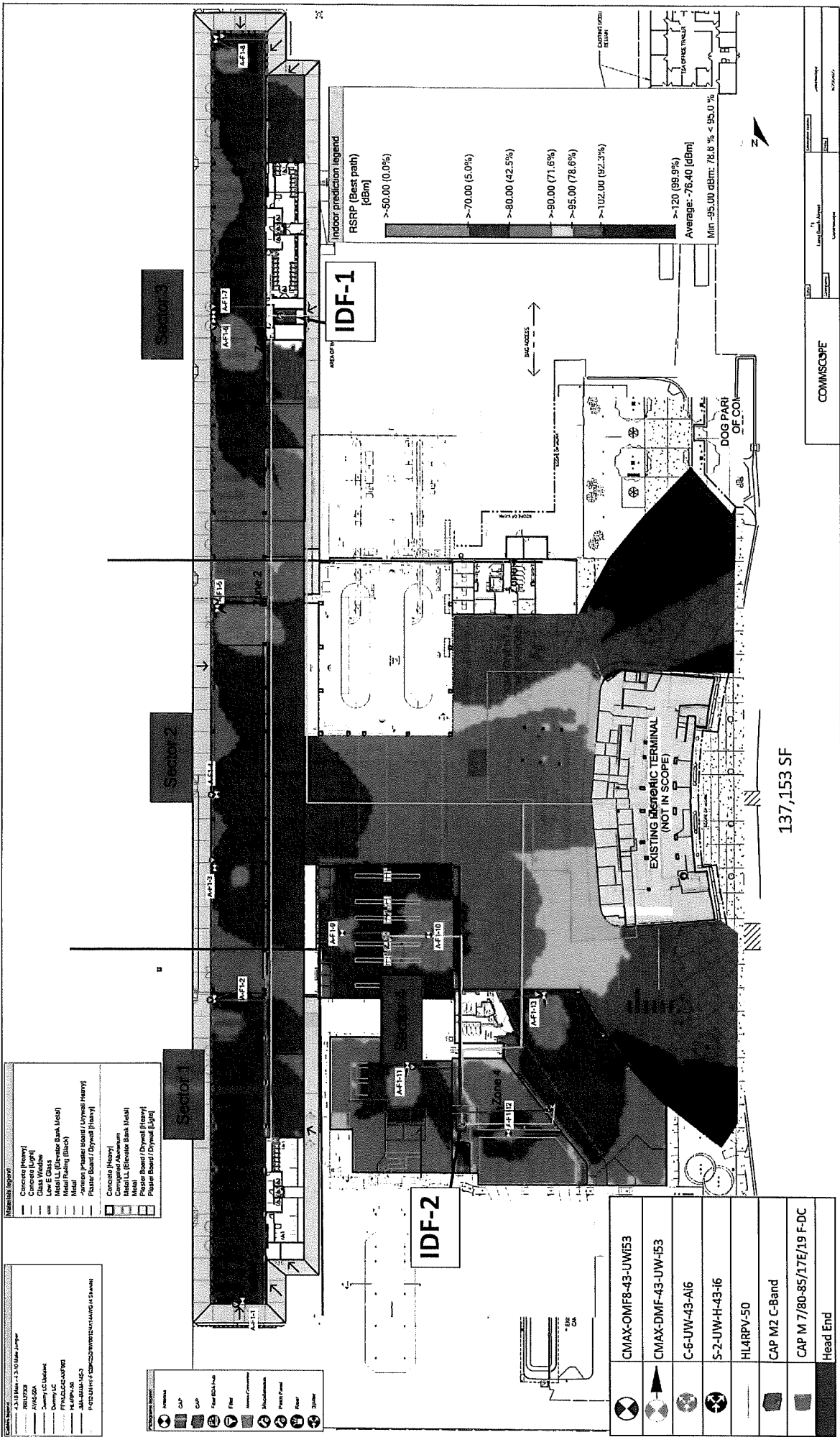
COMMSCOPE

| | |
|----------|--|
| Scale | |
| Revision | |
| Drawn | |
| Checked | |
| Approved | |



- 4-3/8 Min - 1.5 Max Jumper
- 5-3/8 Min - 2.0 Max Jumper
- 6-3/8 Min - 2.5 Max Jumper
- 7-3/8 Min - 3.0 Max Jumper
- 8-3/8 Min - 3.5 Max Jumper
- 9-3/8 Min - 4.0 Max Jumper
- 10-3/8 Min - 4.5 Max Jumper
- 11-3/8 Min - 5.0 Max Jumper
- 12-3/8 Min - 5.5 Max Jumper
- 13-3/8 Min - 6.0 Max Jumper
- 14-3/8 Min - 6.5 Max Jumper
- 15-3/8 Min - 7.0 Max Jumper
- 16-3/8 Min - 7.5 Max Jumper
- 17-3/8 Min - 8.0 Max Jumper
- 18-3/8 Min - 8.5 Max Jumper
- 19-3/8 Min - 9.0 Max Jumper
- 20-3/8 Min - 9.5 Max Jumper
- 21-3/8 Min - 10.0 Max Jumper
- 22-3/8 Min - 10.5 Max Jumper
- 23-3/8 Min - 11.0 Max Jumper
- 24-3/8 Min - 11.5 Max Jumper
- 25-3/8 Min - 12.0 Max Jumper
- 26-3/8 Min - 12.5 Max Jumper
- 27-3/8 Min - 13.0 Max Jumper
- 28-3/8 Min - 13.5 Max Jumper
- 29-3/8 Min - 14.0 Max Jumper
- 30-3/8 Min - 14.5 Max Jumper
- 31-3/8 Min - 15.0 Max Jumper
- 32-3/8 Min - 15.5 Max Jumper
- 33-3/8 Min - 16.0 Max Jumper
- 34-3/8 Min - 16.5 Max Jumper
- 35-3/8 Min - 17.0 Max Jumper
- 36-3/8 Min - 17.5 Max Jumper
- 37-3/8 Min - 18.0 Max Jumper
- 38-3/8 Min - 18.5 Max Jumper
- 39-3/8 Min - 19.0 Max Jumper
- 40-3/8 Min - 19.5 Max Jumper
- 41-3/8 Min - 20.0 Max Jumper
- 42-3/8 Min - 20.5 Max Jumper
- 43-3/8 Min - 21.0 Max Jumper
- 44-3/8 Min - 21.5 Max Jumper
- 45-3/8 Min - 22.0 Max Jumper
- 46-3/8 Min - 22.5 Max Jumper
- 47-3/8 Min - 23.0 Max Jumper
- 48-3/8 Min - 23.5 Max Jumper
- 49-3/8 Min - 24.0 Max Jumper
- 50-3/8 Min - 24.5 Max Jumper
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- 52-3/8 Min - 25.5 Max Jumper
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- 54-3/8 Min - 26.5 Max Jumper
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- 64-3/8 Min - 31.5 Max Jumper
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- 70-3/8 Min - 34.5 Max Jumper
- 71-3/8 Min - 35.0 Max Jumper
- 72-3/8 Min - 35.5 Max Jumper
- 73-3/8 Min - 36.0 Max Jumper
- 74-3/8 Min - 36.5 Max Jumper
- 75-3/8 Min - 37.0 Max Jumper
- 76-3/8 Min - 37.5 Max Jumper
- 77-3/8 Min - 38.0 Max Jumper
- 78-3/8 Min - 38.5 Max Jumper
- 79-3/8 Min - 39.0 Max Jumper
- 80-3/8 Min - 39.5 Max Jumper
- 81-3/8 Min - 40.0 Max Jumper
- 82-3/8 Min - 40.5 Max Jumper
- 83-3/8 Min - 41.0 Max Jumper
- 84-3/8 Min - 41.5 Max Jumper
- 85-3/8 Min - 42.0 Max Jumper
- 86-3/8 Min - 42.5 Max Jumper
- 87-3/8 Min - 43.0 Max Jumper
- 88-3/8 Min - 43.5 Max Jumper
- 89-3/8 Min - 44.0 Max Jumper
- 90-3/8 Min - 44.5 Max Jumper
- 91-3/8 Min - 45.0 Max Jumper
- 92-3/8 Min - 45.5 Max Jumper
- 93-3/8 Min - 46.0 Max Jumper
- 94-3/8 Min - 46.5 Max Jumper
- 95-3/8 Min - 47.0 Max Jumper
- 96-3/8 Min - 47.5 Max Jumper
- 97-3/8 Min - 48.0 Max Jumper
- 98-3/8 Min - 48.5 Max Jumper
- 99-3/8 Min - 49.0 Max Jumper
- 100-3/8 Min - 49.5 Max Jumper

- ### Materials Legend
- Concrete (Heavy)
 - Concrete (Light)
 - Glass Window
 - Insulation
 - Interior Wall
 - Metal (Interior Bank Head)
 - Metal (Exterior Bank Head)
 - Metal (Roofing - Black)
 - Metal (Roofing - Silver)
 - Paper Board (Drywall - Heavy)
 - Paper Board (Drywall - Light)
 - Plaster Board (Drywall - Heavy)
 - Plaster Board (Drywall - Light)
 - Concrete (Heavy)
 - Concrete (Light)
 - Aluminum
 - Steel (Interior Bank Head)
 - Steel (Exterior Bank Head)
 - Metal
 - Paper Board (Drywall - Heavy)
 - Paper Board (Drywall - Light)



137,153 SF

| |
|---------------------------|
| CMAX-OMF8-43-UWI53 |
| CMAX-DMF-43-UW-53 |
| C-6-UW-43-A16 |
| S-2-UW-H-43-16 |
| HLARPV-50 |
| CAP M2 C-Band |
| CAP M 7/80-85/17E/19 F-DC |
| Head End |

