

John Grider

From: Nancy Smith <nsmith.wingspanwireless@gmail.com>
Sent: Wednesday, December 09, 2015 1:19 PM
To: John Grider
Subject: Fwd: FW: City of Las Vegas Department of Planning Application Form
Attachments: City of LV Application form.pdf

Hi John,

Attached and below is the information from the convention authority authorizing the changes/submittal. Please let me know if you need anything else.

Thank you,

Nancy

----- Forwarded message -----

From: "Garcia, Javier (CCI-Southwest)" <Javier.Garcia@cox.com>
Date: Dec 4, 2015 10:58 AM
Subject: FW: City of Las Vegas Department of Planning Application Form
To: "Nancy Smith" <nsmith.wingspanwireless@gmail.com>
Cc: "Yuri Popovic" <YPopovic@insitewireless.com>, "Joe Mullin" <Joe.Mullin@insitewireless.com>, "dbennett@insitewireless.com" <dbennett@insitewireless.com>, "Fountain, John (CCI-Southwest)" <John.Fountain@cox.com>, "Blake, Ben" <Ben.Blake@verizonwireless.com>

Hi Nancy,

Attached is the application signed by LVCVA. Please make sure I received all permits and a detailed preliminary schedule before commencing any work on behalf of Verizon.

I will need to sit down with LVCVA in order to block off and approved any dates.

Let me know if you have any questions or issues.

Thanks

Javier A. Garcia

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DEC 09 2015

Dept of Planning
City of Las Vegas

Chris Marsh | Telecommunications Supervisor
Las Vegas Convention and Visitors Authority | LVCVA.com
T: [702-892-0711](tel:702-892-0711) | F: [702-892-7608](tel:702-892-7608)

Please consider the environment before printing this email

From: Carlos Ocampo
Sent: Wednesday, December 02, 2015 9:52 AM
To: Chris Marsh <cmarsh@lvcva.com>
Subject: RE: City of Las Vegas Department of Planning Application Form

He is OOO until next week. Is this something that is pressing or can it wait until next week? If it can't wait, I can try to figure out how to get it to him to approve.

Carlos Ocampo | Purchasing Assistant
Las Vegas Convention and Visitors Authority | LVCVA.com
T: [702-892-0711](tel:702-892-0711) | F: [702-892-2956](tel:702-892-2956) | Direct: [702-892-2942](tel:702-892-2942)

Please consider the environment before printing this email

From: Chris Marsh
Sent: Wednesday, December 02, 2015 7:57 AM
To: Carlos Ocampo <cocampo@lvcva.com>
Subject: City of Las Vegas Department of Planning Application Form

Carlos,

Can you see if Luke can sign (and notarize) the attached document? Or somebody else if he isn't available. The City of Las Vegas wants this sign-off from the property owner before they will review (and probably issue permits) for the additional Verizon antennas at Cashman.

Please let me know if you have any questions.

Thanks,



**LAS VEGAS
CITY COUNCIL**

CAROLYN G. GOODMAN
MAYOR

STEVEN D. ROSS
MAYOR PRO TEM

LOIS TARKANIAN
RICKI Y. BARLOW
STAVROS S. ANTHONY
BOB COFFIN
BOB BEERS

ELIZABETH N. FRETWELL
CITY MANAGER

December 14, 2015

Las Vegas Convention Authority
Attn: Javier Garcia
3150 Paradise Road
Las Vegas, NV 89109

RE: Cell Facility for Verizon Wireless (APN 139-26-301-004) located at 850 North Las Vegas Boulevard; SDR-62531

Dear Mr. Garcia:

It has been determined that the installation of two (2) new antennas mounted to a wall within an existing building at the 40-foot centerline and install four (4) new antennas at the 50-foot 6-inch centerline on an existing 54-foot 6-inch tall (Wall) Wireless Communication Facility, Stealth Design meets the standard for approval as defined in Title 19.12.010 and 19.18.020 of the Unified Development Code of the City of Las Vegas, subject to the following.

1. Conformance to the site plan and elevations date-stamped December 9, 2015.
2. This approval shall be void one year from the date of final approval, unless a building permit has been issued for the proposed installation. An Extension of Time may be filed for consideration by the City of Las Vegas.
3. Any equipment located on the outside of the shelter and or building shall be painted to match the color of the exterior wall.
4. The wireless communications facility and its associated equipment and screening shall be properly maintained and kept free of graffiti at all times by the cell facility owner. Failure to perform the required maintenance may result in fines and/or removal of the facility and its associated equipment. If abandoned, the property owner must obtain a demolition permit to remove the equipment within thirty (30) days of abandonment. All equipment must then be removed within six (6) months after operations at the site cease.

A Special Use Permit application will not be required prior to submittal of building permits. A copy of this letter must be included in the permit package.

If you have any questions, please contact me at (702) 229-6711.

Sincerely,

John Grider, Planner I
Department of Planning

cc: Verizon Wireless
126 West Gemini Road
Tempe, AZ 85283

In Command Communication
Attn: Nancy Smith
2523 East La Costa Drive
Chandler, AZ 85249

CITY OF LAS VEGAS
DEPARTMENT OF PLANNING
DEVELOPMENT SERVICES CENTER
333 NORTH RANCHO DRIVE
3RD FLOOR
LAS VEGAS, NEVADA 89106

VOICE 702.229.6301
FAX 702.474.7463
TTY 7-1-1
www.lasvegasnevada.gov



/city of las vegas



DEPARTMENT OF PLANNING

APPLICATION / PETITION FORM

Application/Petition For: Administrative review
 Project Address (Location) 850 N. Las Vegas Boulevard
 Project Name LSV Cashman Field Proposed Use WCF
 Assessor's Parcel #(s) 139-26-301-004 Ward #
 General Plan: existing proposed N/A Zoning: existing C-V proposed N/A
 Commercial Square Footage N/A Floor Area Ratio N/A
 Gross Acres 47.05 Lots/Units N/A Density N/A
 Additional Information Verizon is proposing to replace existing flush mounted antennas on convention center with new antennas; painted to match existing

PROPERTY OWNER Las Vegas Convention Authority Contact Javier
 Address 3150 Paradise Rd Phone: (702) 279-3210 Fax:
 City Las Vegas State NV Zip 89109
 E-mail Address javier.garcia@cox.com

APPLICANT Verizon Wireless Contact
 Address 126 W. Gemini Rd Phone: (480) 777-4356 Fax:
 City Tempe State AZ Zip 85283
 E-mail Address

REPRESENTATIVE In Command Communications Contact Nancy Smith
 Address 2523 E La Costa Dr Phone: (480) 205-7142 Fax:
 City Chandler State AZ Zip 85249
 E-mail Address nsmith.wingspanwireless@gmail.com

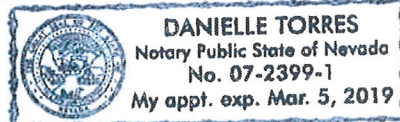
I certify that I am the applicant and that the information submitted with this application is true and accurate to the best of my knowledge and belief. I understand that the City is not responsible for inaccuracies in information presented, and that inaccuracies, false information or incomplete application may cause the application to be rejected. I further certify that I am the owner or purchaser (or option holder) of the property involved in this application, or the lessee or agent fully authorized by the owner to make this submission, as indicated by the owner's signature below.

Property Owner Signature* Lawrence Roney
 Print Name Lawrence Roney

Subscribed and sworn before me
 This 14th day of December, 20 15
Danielle Torres
 Notary: Danielle Torres

Notary Public in and for said County and State
 County: Clark
 State: Nevada

Revised 10/27/08



FOR DEPARTMENT USE ONLY

Case #	<u>SDR-62531</u>
Meeting Date:	<u>12/21/15</u>
Total Fee:	<u>\$500.00</u>
Date Received:*	<u>12/9/15</u>
Received By:	<u>[Signature]</u>

*The application will not be deemed complete until the submitted materials have been reviewed by the Department of Planning for consistency with applicable sections of the Zoning Ordinance.

E:\depot\Application Packet\Application Form.pdf

DEC 09 2015

Dept of Planning
City of Las Vegas

Wireless Communication Facility on Existing Ball Field Building
Verizon Wireless – LSV Cashman Field - Project Narrative
850 N. Las Vegas Blvd.
Las Vegas, NV 89101
APN: 139-26-301-004

Verizon Wireless is requesting an Administrative Review for a Minor Modification to a Wireless Communications Facility located at the Cashman Ball Field on a parcel designated with C-V CIVIC DISTRICT zoning. Verizon is proposing to replace (2) flush mounted, building mounted existing antennas on the Cashman Field Facility (Facing the Ball Field), adding (2) new Flush mount antennas, along with (1) junction box and (3) Remote Radio Heads at this same location flush mounted directly below the new antennas and painted to match the existing building color. According to the UDC 19.10.020, in the C-V Use district utility company facilities, including electrical power substation facilities, telephone switching stations and towers, water district facilities, cable TV lines and **wireless communication facilities are permitted uses**. The new/replacement antennas will be mounted flush with the top of the existing building wall at the existing building height of 54'-6". The replacement antennae array has a 50'-6" centerline. The current antenna centerline is 50'-6". Verizon is also replacing two antennas inside the facility as notated on the plans, but those will not be visible to the public. All associated ground equipment is housed inside the building and not visible or accessible by the public. There will be no changes to the existing ingress/egress (access) to the site either. This site will also meet the following design requirements in the UDC Article 19:

Per chapter 19.12 Wireless Communication Facility, Stealth Design:

Description: A wireless communication facility that is designed to blend into the surrounding environment. Examples include without limitation: antenna tower alternative structures; roof mounted antennas (with architectural screening when appropriate); **building mounted antennas painted to match the existing structure**; antennas integrated into architectural elements (such as steeples or cupolas); antennas and antenna structures designed to look like light poles, flagpoles, or any other camouflaging techniques available on the market; and a cable microcell network which utilizes multiple low powered transmitters/receivers or repeaters attached to existing wireline systems, such as conventional cable or telephone wires, or similar technology that does not require the use of towers.

The design must conform to the definition of the term "Wireless Communication Facility, Stealth Design," as set forth in LVMC 19.18.020 and as determined by the Director

The design and location of the proposed facility must be deemed by the Director to be compatible with surrounding uses, and the facility must include appropriate screening and landscaping to ensure such compatibility.

The frequencies used by the communication provider shall be in conformance with Federal Communication Commission standards, as certified by a competent professional (such as a radio frequency engineer). The current licenses in use will remain the same.

On-site Parking Requirement: No additional parking required beyond that which is required for the principal use(s) on the site.

The facility must qualify as one or more of the following:

a. An antenna that is to be collocated on an existing antenna tower or **other existing structure**.

b. **An antenna tower that is to be located on property in the C-V Zoning District.**

The applicant must submit to the Department, for administrative review and approval, a site plan and an elevation drawing. The Director shall review the documents to determine the applicable treatment of the proposed facility under these Conditional Use Regulations. If the Director, in his discretion:

a. Determines that the proposed facility is a collocation of new transmission equipment, a removal of transmission equipment **or a replacement of transmission equipment** that:

i. Does not increase the tower height by more than 10% or height of additional antenna array plus 20 feet, whichever is greater,

ii. Does not add more than 4 new equipment cabinets or 1 new shelter, and

iii. Does not contain a protrusion of more than 20 feet or the width or the tower, whichever is greater,

the Director shall approve the application as if permitted by right.

Determines that Paragraph (a) above does not apply and approves the proposed facility to proceed as a conditional use, the Director shall provide written notice of preliminary approval to the applicant, with a copy to the office of the City Council. That preliminary approval becomes final within 10 days after the notice has been mailed or delivered to the applicant, unless within that period a member of the City Council files with the Director a written request for the Council to review the approval. If such a request to review is filed, the application must first be reviewed and approved by the Council.

Except in the C-V Zoning District, no antenna tower that forms part of a facility may be located within 600 feet of:

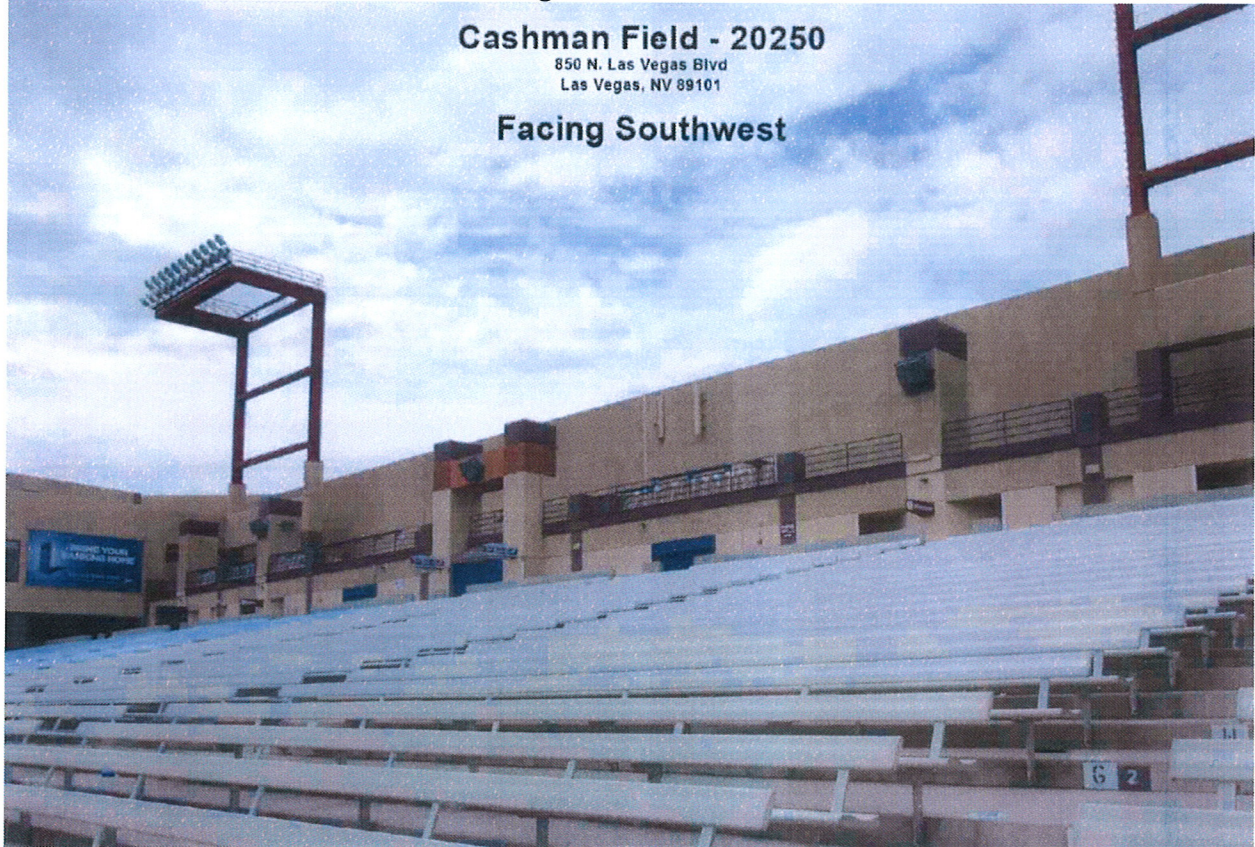
a. Any other antenna tower that forms part of a wireless communication facility; or

b. Any pole or tower structure of any other type that has a height of at least 60 feet.

Antenna towers and associated components shall be initially painted and thereafter repainted with a flat paint, using a color that is approved by the City Council. Except as otherwise required by the Federal Communications Commission or the Federal Aviation Administration, **the color of any antenna tower must generally match the surroundings or background so as to minimize its visibility.**

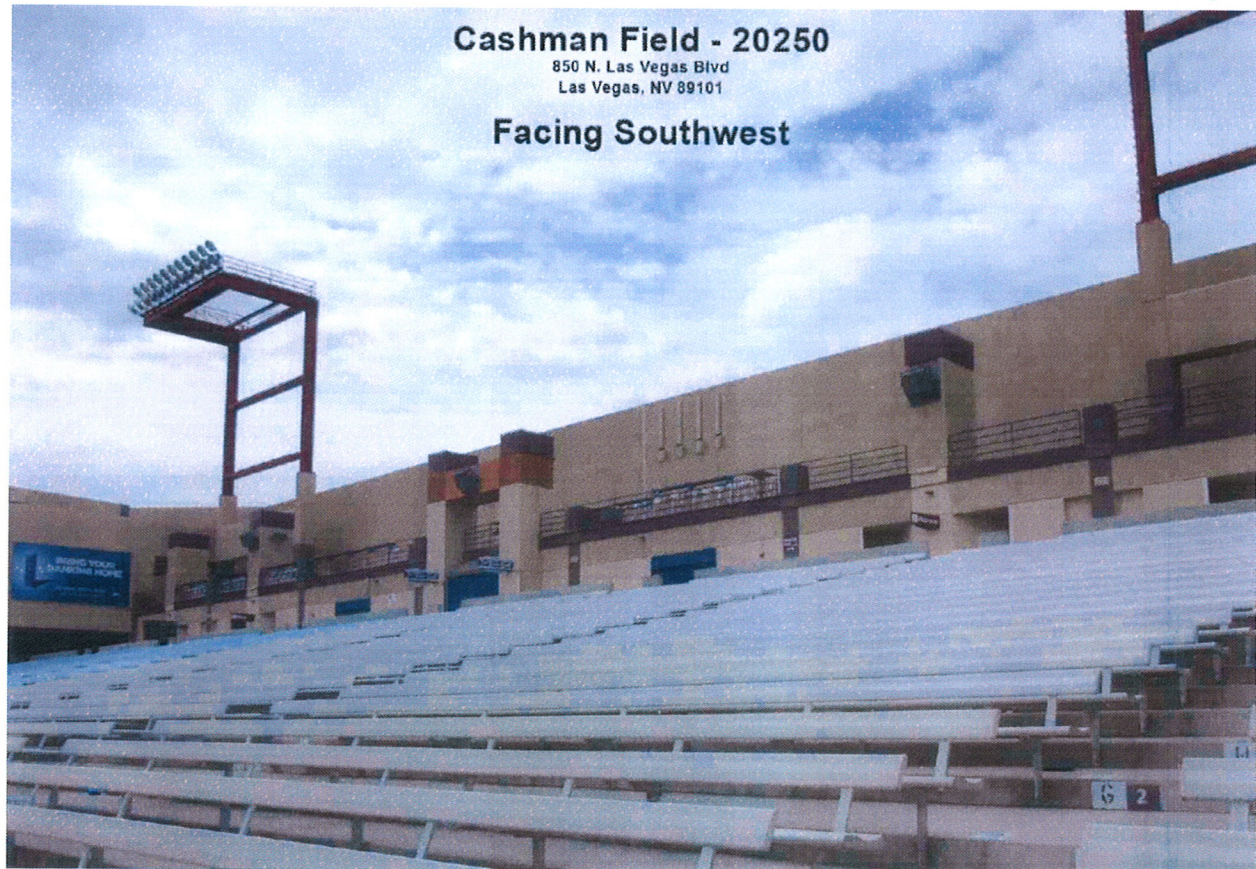
Below is a picture of the existing antennas at their location on the East side of the building (West side of the ball field).

Existing Antenna Location



Below is what the replacement antennas will look like with the RRH's and junction box added.

With Replacement Antennas



In addition to the requirements listed above, the following apply:

- A. The replacement antennas will meet the RF offload objectives as well as the structural capacity needs to ensure there will be no detriment to the health, safety, or general welfare of persons living or working in the vicinity, to adjacent properties, to the neighborhood, or to the public in general;
- B. The proposed modification conforms to the purposes, intent, and policies of the General Plan and its policies and any applicable area, neighborhood, or other plan officially adopted by Town Council;
- C. The proposed modifications conform with the conditions, requirements, or standards prescribed by the UDC and any other applicable local, State, or Federal requirements; and
- D. The proposed modifications, as conditioned, would not unreasonably interfere with the use and enjoyment of the property or any nearby properties.

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Please let me know if you have any questions or need any additional information.

Thank you,



Nancy Smith



In Command Communications LLC

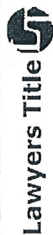
Mobile: 480-205-7142 - Fax: 623.218.1302

www.ICCommunications.net

nsmith.wingspanwireless@gmail.com



Property History



COUNTY OF CLARK (LV CONV AUTH)
850 LAS VEGAS BLVD N, LAS VEGAS, NV 89101-2062
APN: 139-26-301-004 CLARK COUNTY

Prior Transfer - 08/26/1981

Recording Date:	08/26/1981	Document#:	145414-13167 BK-PG:-
Price:	\$0.00	Document Type:	N/A
First TD:	\$0.00	Type of Sale:	Per Assessor Transaction History
Lender Name:	N/A	Buyer Vesting:	GV
Buyer Name:	COUNTY OF CLARK (LV CONV AUTH)		
Seller Name:	N/A		
Legal Description:	District: LV Sec / Township / Range: PART OF N2 SW4 S26 T20S R61E Legal Brief Description: PT N2 SW4 SEC 26 20 61 City / Muni / Twp: LAS VEGAS		

Courtesy of Lawyers Title
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All information produced is deemed reliable but is not guaranteed.

SDR-62531

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DEC 09 2015

Dept of Planning
City of Las Vegas



Profile Report

Lawyers

Primary Owner: COUNTY OF CLARK (LV CONV AUTH)

Secondary Owner:

Mail Address: 500 S GRAND CENTRAL PKWY
LAS VEGAS, NV 89155-4502

Site Address: 850 LAS VEGAS BLVD N
LAS VEGAS, NV 89101-2062

APN: 139-26-301-004

Housing Tract Number:

Lot Number:

Legal Description:

District: LV
Sec / Township / Range: PART OF N2 SW4 S2
R61E
Legal Brief Description: DIST:LV CITY:LAS V
SEC/TW/RNG/MER:PART OF N2 SW4 S26 T20
N2 SW4 SEC 26 20 61
City / Muni / Twp: LAS VEGAS

Property Details

Bedrooms: 0	Year Built: 1995	Square Feet: 7,068
Bathrooms: 0	Garage:	Lot Size: 47.05 AC
Total Rooms:	Fireplace:	Number of Units: 0
Zoning:	Pool:	Use Code: Mini-Warehc
No of Stories: 1		
Building Style:		

Sale Information

Transfer Date: 08/26/1981	Seller: N/A
Transfer Value: \$0.00	Document#: 145414:13167 BK-PAG: 1454 Cost/Sq Feet:
Title Company:	

Assessment and Taxes

Assessed Value:	\$11,398,808.00	Percent Improvement: 85.55%	Homeowner Exempti
Land Value:	\$1,646,750.00	Tax Amount:	\$180.10 Tax Rate Area:
Improvement Value:	\$9,752,058.00	Tax Account ID:	Tax Status:
Market Improvement Value:		Market Land Value:	Market Value:



Neighborhood Overview

Lawyers Title

Nearby Neighbors

WALNUT HOUSE LLC,		REZA-BURCIAGO JESUS ELOY	
740 N 11TH ST , LAS VEGAS , NV , 89101		736 N 11TH ST , LAS VEGAS , NV , 89101	
APN: 139-26-410-080		APN: 139-26-410-081	
Bedrooms: 8	Bathrooms: 4	Bedrooms: 8	Bathrooms: 4
Square Feet: 3,356	Lot Size: 6,970 SF	Square Feet: 3,356	Lot Size: 6,970 SF
Year Built: 1961	Garage:	Year Built: 1961	Garage:
BILLINGSLEY SHEILA & TRENT		GUTIERREZ JOSE E & ELVA	
741 N 11TH ST , LAS VEGAS , NV , 89101		732 N 11TH ST , LAS VEGAS , NV , 89101	
APN: 139-26-410-079		APN: 139-26-410-082	
Bedrooms: 8	Bathrooms: 4	Bedrooms: 8	Bathrooms: 4
Square Feet: 3,356	Lot Size: 6,970 SF	Square Feet: 3,356	Lot Size: 7,405 SF
Year Built: 1961	Garage:	Year Built: 1961	Garage:
MEZA-PALACIO FRANCISCO; PENA-DEMEZA RAFAELA		MARTINEZ DORIS & ELEONOR	
737 N 11TH ST , LAS VEGAS , NV , 89101		1300 E MCWILLIAMS AVE , LAS VEGAS , NV , 89101	
APN: 139-26-410-078		APN: 139-26-415-096	
Bedrooms: 8	Bathrooms: 4	Bedrooms: 3	Bathrooms: 2
Square Feet: 3,356	Lot Size: 6,970 SF	Square Feet: 1,624	Lot Size: 7,405 SF
Year Built: 1961	Garage:	Year Built: 1956	Garage:
GUTIERREZ JOSE E & ELVA		BORJAS JORGE & MARCELINA; BORJAS FLORENTINO	
728 N 11TH ST , LAS VEGAS , NV , 89101		1304 E MCWILLIAMS AVE , LAS VEGAS , NV , 89101	
APN: 139-26-410-083		APN: 139-26-415-097	
Bedrooms: 8	Bathrooms: 4	Bedrooms: 3	Bathrooms: 2
Square Feet: 3,550	Lot Size: 6,970 SF	Square Feet: 1,554	Lot Size: 6,970 SF
Year Built: 1962	Garage:	Year Built: 1956	Garage:
G & M GROUP INVESTMENT LLC,		GARCIA JOSE THOMAS GUTIERREZ	
740 N 10TH ST , LAS VEGAS , NV , 89101		733 N 11TH ST , LAS VEGAS , NV , 89101	
APN: 139-26-410-102		APN: 139-26-410-077	
Bedrooms: 0	Bathrooms:	Bedrooms: 8	Bathrooms: 4
Square Feet: 2,906	Lot Size: 7,405 SF	Square Feet: 3,356	Lot Size: 7,405 SF
Year Built: 1955	Garage: P	Year Built: 1961	Garage:



Neighborhood Overview

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STOREHOUSE HOMES LLC SERIES 726,				BOCARD RENE; DEVALDEZ LYD			
726 N 11TH ST , LAS VEGAS , NV , 89101	APN: 139-26-410-084	Bedrooms: 4	Bathrooms: 3	1308 E MCWILLIAMS AVE , LAS VEGAS , N	APN: 139-26-415-098	Bedrooms: 3	Bathrooms:
		Square Feet: 1,900	Lot Size: 6,970 SF			Square Feet: 1,512	Lot Size:
		Year Built: 1963	Garage:			Year Built: 1956	Garage:
AOW REO LLC SERIES 736,				GUTIERREZ JOSE E & EL			
736 N 10TH ST , LAS VEGAS , NV , 89101	APN: 139-26-410-103	Bedrooms: 0	Bathrooms:	729 N 11TH ST , LAS VEGAS , NV , 89101	APN: 139-26-410-076	Bedrooms: 8	Bathrooms:
		Square Feet: 2,592	Lot Size: 6,970 SF			Square Feet: 3,356	Lot Size:
		Year Built: 1955	Garage: P			Year Built: 1961	Garage:
SOUTHERN NEVADA REGIONAL AUTHORITY,							
1200 HARRIS AVE , LAS VEGAS , NV , 89101	APN: 139-26-303-001	Bedrooms: 6	Bathrooms: 2				
		Square Feet: 1,856	Lot Size: 5.44 AC				
		Year Built: 1984	Garage:				

Courtesy of Lawyers Title
Offered by Lawyers Title
All Information produced is deemed reliable but is not guaranteed.

INTERIOR WIRELESS COMMUNICATIONS SITE LEASE

THIS LEASE ("Agreement") effective on the 1st day of July 2009, by and between the LAS VEGAS CONVENTION AND VISITORS AUTHORITY, hereafter referred to as the "Authority", and, SOUTHWESTCO WIRELESS LP, a Delaware limited partnership, d/b/a VERIZON WIRELESS by SOUTHWESTCO WIRELESS, INC., its managing partner, hereafter referred to as "Provider".

WITNESSETH

WHEREAS, the Authority is a local government agency organized and existing pursuant to Sections 244A.597 through 244A.655, of the Nevada Revised Statutes;

WHEREAS, by the provisions of NRS 244A.619, Subparagraph 3, the Authority is authorized to contract for the furnishing of services in connection with the promotion of Clark County as a tourist and convention destination;

WHEREAS, the Authority desires to lease space to an entity, on a non-exclusive basis and as a private entity, which will provide mobile telephone/data transmission, also known as cellular/PCS, service in the Cashman Center located at 850 Las Vegas Boulevard, Las Vegas, Nevada, 89155 (site also known as LSV Cashman); and

WHEREAS, the Provider seeks to be awarded the right to lease certain space and to perform mobile telephone/data transmission services, having represented itself as qualified in all respects to provide such mobile telephone/data transmission services;

NOW, THEREFORE, it is mutually agreed as follows:

SECTION ONE - GRANT OF CONTRACT

1. The President (or corresponding representative) of the Authority is hereby designated as the authorized representative of the Authority. Any instruction, decision, direction or finding of the President in the administration of this Agreement shall be binding upon the Provider except as provided herein. Once executed by both parties, this Agreement will replace and terminate any existing agreements between the parties.

2. Subject to the terms and conditions thereof, and rights reserved to the Authority as hereinafter provided, the Authority hereby grants to the Provider the right and obligation, as a private entity, to provide mobile telephone/data transmission services in accordance with the provisions of this Agreement. Once executed by both parties, this Agreement will replace and terminate any existing agreements between the parties. Authority and Provider agree that this Agreement replaces the Communications Site Lease dated April 1, 2005, between the Authority and Provider as may

have been renewed, extended, and/or amended, referenced by Provider as Contract # 63128 (the "Terminated Agreement"). Authority and Provider further acknowledge that notwithstanding the termination of the Terminated Agreement and the commencement of this Agreement, Provider may continue to make, and the Authority may continue to receive, rental and other payments pursuant to the Terminated Agreement by Provider. In such event, any rental or other payments made pursuant to the Terminated Agreement by Provider after its termination shall be applied and credited against any rentals or other payments due under this Agreement.

3. The Provider agrees that it will fully cooperate and coordinate all of its services, repairs or any other activity with the company or companies that lease the Cashman Center for conventions, trade shows and meetings. Provider acknowledges that the Authority has a third party contract with another communications services provider ("Third Party Contract") and the rights granted under such Third Party Contract supercedes all rights of Provider under this Lease. If requested, Provider shall immediately comply with any material request made by Authority to enforce the rights set forth in the Third Party Contract or Provider shall immediately terminate this Lease and remove its equipment from the Subject Facilities. Any such termination or request shall be made without any liability or cost to Authority.

SECTION TWO - TERM

1. The term of the Agreement shall commence on July 1, 2009 and end with the 30th day of June, 2012 ("Initial Term"). After the Initial Term, the parties may mutually agree to extend the term of this Agreement for one (1) three (3) year extension which will be subject to increases in rent as set forth in Section Four, Subsection (4). Authority or Provider may terminate all obligations under this Agreement upon ninety (90) calendar days written notice to the other party without any obligation or liability to the other party or any third party.

SECTION THREE - AUTHORITY'S DUTIES

1. The Authority shall furnish the Provider with Sites referenced in Exhibit "A" for Provider's equipment and antennas in the Cashman Center ("Subject Facilities"). Exhibit "A" shall be drafted by Provider and submitted to Authority for approval. All locations and uses must be approved by the Authority prior to any use by Provider. Provider hereby waives any and all claims for damages and/or any other liability occasioned by any power outages or failures.

2. The Authority shall provide reasonable access to the Subject Facilities. The determination of reasonable access shall be made solely by the President of the Authority, provided that such determination takes into consideration the obligations of Provider as set forth in this Agreement. Authority will provide power for the mobile telephone/data transmission equipment sites.

...

3. If Provider's activities on the Subject Facilities interferes in any way with the exhibitors or conventions/trade shows that lease or sublease the Cashman Center, the Provider shall make all best efforts, including full shutdown of Provider's on-site system, to remedy such interference. Said remedy shall be performed by the Provider within twenty-four (24) hours of notice of any such interference.

SECTION FOUR - BEST EFFORTS OF PROVIDER-RENTAL

1. The Provider agrees to use all reasonable efforts to perform all functions necessary to provide mobile telephone/data transmission services to the Lessees of the Cashman Center. Within 60 days after the full execution of this agreement, provider shall pay for and install and provide Authority access to, power submeters for each cellular signal boosting site.

2. All expenses and disbursements incurred by the Provider in rendering the above services shall be borne by the Provider, and Provider shall not incur any liability for the Authority, and shall hold the Authority harmless therefrom.

3. Provider shall not have, nor shall they hold themselves out as having the power to make contracts in the name of or binding on the Authority, or to pledge the Authority's credit or to extend credit in Authority's name. No employee of the Provider shall be considered, in any way, an employee of the Authority. The Provider is an independent contractor and not an agent of the Authority.

4. Provider shall pay the Authority, [REDACTED] per month ("Rent") for the use of the Subject Facilities or a prorated amount for any partial month of tenancy. Payment is due on or before the 5th day of each month. Notwithstanding anything to the contrary herein, Provider and Authority acknowledge and agree that initial Rent payment(s) shall not actually be sent by Provider until thirty (30) days after the full execution of this Agreement. On July 1, 2010, and on each July 1 thereafter, the above referenced [REDACTED] Rent amount may be renegotiated prior to the extension period by providing at least three (3) months notice prior to the expiration of the Initial Term.

5. Any payment which is still due and payable after the 30th day of each month shall be subject to late charges and interest in the amount [REDACTED] of the outstanding balance per month.

6. If at any time during the term of this Agreement, use of the Subject Facilities becomes technically (not financially) impracticable for the Provider, the Provider may terminate all obligations under this Agreement, if it provides to the Authority written proof of such technical impracticability within ninety (90) days of termination, and Provider removes all equipment from the Subject Facilities.

SECTION FIVE - LICENSES AND PERMITS

1. Provider shall procure at its own cost and expense any and all licenses and permits necessary for carrying out the terms and provisions of this Agreement. This specifically includes, but is not limited to, obtaining the required zoning for the Provider's business, if needed.

2. Provider must be duly qualified to transact business in the State of Nevada, and it will at all times during the term of this Agreement appoint and maintain a resident agent in Nevada for service of process and otherwise comply with all laws of the State of Nevada.

SECTION SIX - COMPLIANCE WITH LAWS

1. Provider at its sole cost and expense shall comply and/or secure compliance with all the requirements of all Municipal, County, State and Federal authorities having or claiming authority in respect to the operations conducted as a result of this Agreement, and shall faithfully observe and secure observance of all County ordinances (or City Codes) and State and Federal statutes now in force or which may hereafter be promulgated.

2. The Provider shall pay all taxes or assessments, which shall be levied against any fixture, equipment, inventory or merchandise placed on the Subject Facilities by Provider. Provider shall also pay all taxes of any nature that may be assessed or levied by virtue of any business activity conducted by Provider at the Cashman Center.

SECTION SEVEN - SUBJECT FACILITIES

1. Provider shall not do or permit its employees to injure, mar or in any manner deface the Authority's facilities, normal wear and tear excepted.

2. The Provider shall maintain the Subject Facilities in good working order. The Provider shall be responsible for any damage to the Cashman Center that is occasioned by its employees, agents, licensees or independent contractors. The Provider shall pay for all alterations to the Subject Facilities and hold Authority harmless from any and all claims or liens related to the alterations. Provider shall obtain payment and performance bond(s) for any construction of any improvements constructed on the Subject Facilities. Such payment and performance bonds shall be for the full cost of construction and provided to Authority ten (10) days before the start of construction.

3. The time within which Provider or Authority shall be required to perform any act under this Agreement shall be extended by a period of time, equal to the number of days, during which such performance is delayed unavoidably by strikes, lockouts, Acts of God, failure or inability to secure materials of labor by reason of priority or similar regulations of order of any governmental,

judicial or regulatory body, enemy action, civil disturbance, fire, unavoidable casualties or any other cause beyond reasonable control of Provider or Authority.

4. The Provider shall not effect, in any way, any condition on the Subject Facilities (Exhibit A) (or due to the actions taken by the Provider) that cause; the Authority to suffer an increase in any insurance premium; an unreasonable safety hazard to person or property; or a labor strike or any other disruption of convention business. If Provider does not correct (after written notice by Authority) such condition within two (2) days, then Provider shall be in default of this Agreement, and the Authority, in its sole discretion, has the right to terminate this Agreement pursuant to Section Eleven set forth below.

5. Any modifications or additions to the Subject Facilities shall only be constructed if express written consent of the Authority is obtained prior to such change and/or construction. Provider will coordinate and obtain written approval from Authority prior to the temporary or permanent installation or removal of mobile telephone/data transmission equipment or antennas within Subject Facilities (Exhibit A) or in other areas on the Authority's property. Any modifications or additions to the Subject Facilities requested by Provider will be paid for by the Provider and all such modifications or additions, shall become fixtures and shall remain the property of the Authority, except the installed equipment. Provider shall, at its sole cost and expense, remove such equipment at the end of the term of this Agreement or when the Agreement is terminated pursuant to any provision in this Agreement.

6. The Provider expressly acknowledges that the Cashman Center has paid parking at the facility and that the Provider may have to pay for parking in order to service or repair the mobile telephone/data transmission equipment. The Provider also expressly acknowledges that there are no reserved parking spaces for Provider's employees and that Provider's employees shall only park in the parking area designated by the Authority.

7. The Authority reserves the right to make, during the term hereof, such improvements, additions, alterations, renovations, changes and repairs (collectively "Alterations") in and about the Subject Facilities as the Authority shall deem desirable, including but not limited to, relocation of the Subject Facilities and Provider's equipment. Authority shall not make any Alterations to the Subject Facilities, which would unreasonably affect Provider's operations or business without providing one hundred-twenty (120) days prior written notice to Provider. In the event of relocation of the Subject Facilities or Provider's equipment, the Authority will make its best effort to provide an alternate site in the Cashman Center. In the event that the parties to this Agreement cannot agree on an alternate site, either party may terminate this Agreement with thirty (30) days prior written notice to the other party. During the term of this Agreement, should any law, regulation, or rule be enacted requiring that an Alteration be made to the Subject Facilities, the parties agree as follows: If the Alterations are required as a result of Provider's specific use of the Subject Facilities, Provider shall make such Alterations and bear all expenses connected thereby; If the Alterations are required as a result of the condition or nature of the Subject Facilities themselves, and are not caused by the Provider's specific

use of the Subject Facilities, the Authority shall have the option to either make the Alteration and bear all expenses thereto, or, if the Alterations are of such a material and significant degree monetarily or otherwise, that Provider's continued use of the Subject Facilities would be unreasonable (financially or otherwise) or hazardous, the Authority shall have the option to immediately terminate all obligations under this Agreement.

8. In addition to the requirements set forth in subsection seven (7) of this section, if the Authority supplies Provider with one hundred-twenty (120) days written notice, Provider shall coordinate, pay for and move any of the mobile telephone/data transmission equipment sites to a new location in the Cashman Center. Provider shall only be required to pay for the relocation of the mobile telephone/data transmission equipment site(s) once during the first three (3) years of this Agreement.

9. Provider shall permit the Authority, its agents, and other employees, to have access to and to enter the Subject Facilities at all reasonable and necessary times to inspect the Subject Facilities for any purpose connected with the repair, improvement, care and management of the Subject Facilities or for any other purpose reasonably connected with the Authority's interest in the Subject Facilities. After notification from the Authority, the Provider shall perform any work or other acts found necessary as a result of such inspection.

SECTION EIGHT- INDEMNITY

Provider shall so conduct its activities as not to endanger any person, and hereby does, agree to indemnify, save and hold harmless the Authority, its officers, directors and employees, from and against any suit that may be instituted for infringement of patent right, copyright, trademark and/or servicemark and any and all claims, demands, losses, liability, cost or expense of any kind or nature whatsoever, including reasonable attorney's fees, which Authority, its officers, employees, directors or any agents may sustain or incur or which may be imposed upon them, for injury or death of persons, including injuries sustained by employees of Provider, Authority or third parties, or damages to property arising out of, connected with or attributed to the use of Subject Facilities or actions by the Provider to perform the services listed herein. Provider hereby assumes full responsibility for the character, acts and conduct of all its employees, invitees, licensees and independent contractors admitted to the Cashman Center or providing services pursuant to this Agreement, and Provider agrees to pay for any damage resulting from Provider's use or occupancy of the Subject Facilities. Notwithstanding anything to the contrary herein, neither party shall be liable to the other, or any of their respective agents, representatives, employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

...

SECTION NINE - INSURANCE

1. Provider shall, during the entire term hereof, maintain in full force and effect a commercial general liability policy of insurance, [REDACTED] per occurrence for bodily injury, property damage (both liability and personal property), contractual and personal injury; and Authority shall be named as an additional insured on any such insurance policy. The coverage amounts set forth may be met by a combination of underlying and umbrella policies so long as in combination the limits equal or exceed those stated.

2. Copies of the Certificates of Insurance indicating that the insurance policies required hereunder are in effect shall be furnished to:

Las Vegas Convention and Visitors Authority
3150 Paradise Road
Las Vegas, NV 89109
Attention: Contract Administration

3. Additionally, all insurance policies provided under this Agreement shall be issued by a responsible company or companies authorized to do business in the State of Nevada and with an A.M Best rating of not less than A-, VII. Said Certificates of Insurance shall state that the policies are non-cancelable unless the insurance company provides written notice to both parties hereto within thirty (30) working days prior to such cancellation (ten (10) days notice shall apply to non-payment).

4. Provider, at Provider's sole cost and expense, shall procure and maintain in full force and effect, during the tenure of this agreement, Workers Compensation covering all officers and employees of Provider. In addition, Provider shall procure an adequate amount of theft and property insurance to cover losses while occupying the Subject Facilities.

5. Any policy of insurance shall not be construed to be a limitation upon Provider's liability or as a full performance of the indemnification provisions hereof.

6. The Authority shall not be liable to Provider for any claim, demand, loss, cost or expense of any kind or nature whatsoever which Provider may incur as a result of vandalism, theft or malicious mischief.

...

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SECTION TEN – ATTORNEY’S FEE AND COURT COSTS

The substantially prevailing party in any action or suit in relation to this Agreement shall be entitled to have and recover from the other party all costs and expenses of the action or suit, including reasonable attorneys' fees, accounting and engineering fees, and any other professional fees resulting therefrom.

SECTION ELEVEN - DEFAULT

1. In the event Provider defaults (as defined in Paragraph #2 of this Section), Authority shall have, in addition to any other legal resource, the right to terminate this Agreement forthwith, to enter and obtain possession of the Subject Facilities and take over all the work in progress covered by this Agreement, and at the Authority's sole option, to remove and exclude any and all persons from Subject Facilities, and to remove and exclude all property of the Provider therefrom, all without service of notice or resort of legal process and without any legal liability on Authority's part.

2. Elements of Default: If any one or more of the following events occur, said event or events shall hereby be classified as a "Default":

(a) If the Provider vacates the Subject Facilities and permits the same to remain unoccupied and unattended or substantially ceases to carry on its normal activities in the Subject Facilities, or fails to operate its business in compliance with the provisions of this Agreement;

(b) If the Provider fails to pay any amount due to the Authority or any other charges required to be paid by Provider when the same shall become due and payable hereunder and such failure continues for thirty (30) calendar days, after written notice by the Authority;

(c) If Provider shall fail to perform or observe any term of condition of the Agreement, and such failure shall continue for thirty (30) calendar days after written notice is sent by the Authority to Provider informing Provider of such failure;

(d) If the Provider is given three (3) notices of Default under this section, within any twenty-four (24) month period, notwithstanding any subsequent cure of the failure, to perform or observe the terms or conditions of the Agreement as identified in such notices; or

(e) If any execution, levy, attachment or other legal process of law shall occur upon Provider's goods, fixtures, or interest in the Subjects Facilities.

3. The Authority's Remedies Upon Default. Should a Default occur under this Agreement, the Authority may pursue any or all of the following:

(a) The Authority, in addition to other rights or remedies it may have, shall have the right, by written notice to Provider, to declare this Agreement terminated and the term ended. In which event, this Agreement and the term hereof shall expire, cease and terminate and Provider shall vacate and surrender the Subject Facilities, but shall remain liable for all obligations arising during the balance of the original stated term as hereafter provided as if this Agreement had remained in full force and effect. The Authority shall have the right to bring a special proceeding to recover possession from Provider holding over and/or the Authority may, in any such event, without notice, re-enter the Subject Facilities either by force or otherwise, and dispossess, by summary proceedings or otherwise, Provider or other occupant(s) of the Subject Facilities and remove their effects and hold the Subject Facilities as if this Agreement had not been made.

(b) Upon termination of this Agreement pursuant to this section, the Authority may proceed to recover possession of the Subject Facilities under and by virtue of the provisions of the laws of the State of Nevada, or by such proceedings including re-entry and possession, as may be applicable.

(c) Should this Agreement be terminated before the expiration of the term of this Agreement by reason of Provider's Default as herein above provided, or if Provider shall abandon or vacate the Subject Facilities before the expiration or termination of the term of this Agreement without having paid all amounts due under this Agreement, the Authority shall have the option to relet the Subject Facilities. Such subsequent agreement shall be upon such terms as the Authority may determine in its sole discretion. In addition, Provider shall be liable for all damages sustained by the Authority, including reasonable attorney's fees and brokerage fees. The Authority, in putting the Subject Facilities in good order or preparing the same for reletting, pursuant to a new agreement, may make such alterations, repairs or replacements in the Subject Facilities as the Authority, in its sole judgment, considers advisable and necessary for the purpose of reletting the Subject Facilities, and the making of such alterations, repairs or replacements shall not operate or be construed to release Provider from liability hereunder. The Authority shall not be liable for its failure to mitigate its damages in the event of a default by Provider, and in no event shall Provider be entitled to receive the excess, if the Authority enters into a more favorable agreement with a subsequent provider.

(d) Nothing contained herein shall prevent the enforcement of any claim the Authority may have against Provider for anticipatory breach of the unexpired term of this Agreement. In the event of a breach or an anticipatory breach by Provider of any of the covenants or provisions hereof, the Authority shall have the right of injunction and the right to invoke any remedy allowed at law or in equity as if re-entry, summary proceedings and other remedies were not provided for herein. Mention in this Agreement of any particular remedy shall not preclude the Authority from any other remedy, in law or in equity. Provider hereby expressly waives any and all rights of redemption granted by or under present or future laws in the event of Provider being evicted or dispossessed for any cause, or in the event of the Authority obtaining possession of the Subject Facilities, by reason of the violation by Provider of any of the covenants and conditions of the Agreement or otherwise.

4. Effect of Bankruptcy of Provider:

(a) Neither Provider's interest in this Agreement, nor any estate hereby created on Provider's interest nor any interest herein or therein, shall pass to any trustee or receiver or assignee of the benefit of creditors or otherwise by operation of law, except as may specifically be provided pursuant to the Bankruptcy Code (11 USC Section 101 et seq.), as the same may be amended from time to time.

(b) Rights and Obligations Under the Bankruptcy Code.

(1) Upon the filing of a petition by or against Provider under the Bankruptcy Code, Provider, as debtor and as debtor-in-possession, and any trustee who may be appointed with respect to the assets of or estate in bankruptcy of Provider, agrees to pay reasonable compensation for the use and occupancy of the Subject Facilities and other charges otherwise due pursuant to this Agreement.

(2) Included within and in addition to any other condition or obligations imposed upon Provider or its successor in the event of the assumption and/or assignment of the Agreement are the following: (i) The cure of any monetary defaults and reimbursements of pecuniary loss within not more than thirty (30) days after assumption and/or assignment; (ii) The use of the Subject Facilities as set forth in this Agreement and the quality and/or quantity services provided by the Provider or its assignee are required to be essentially unchanged; and (iii) The prior written consent of any mortgage to which this Agreement has been assigned as collateral security.

5. Additional Remedies and Waiver. The right and remedies of the Authority set forth herein shall be in addition to any other right and remedy now or hereafter provided by law, and all such rights and remedies shall be cumulative. No action or inaction by the Authority shall constitute a waiver of default or termination and no waiver of Default or termination shall be effective unless it is in writing, signed by the Authority.

6. Cure of Default. If Provider shall be in Default hereunder, the Authority shall have the option, but not the obligation, upon thirty (30) calendar days written notice to Provider (except in the event of an emergency, in which event no notice shall be required), to cure the act or failure constituting said Default for the account of and at the expense of Provider. If the Authority has already terminated the Agreement, the Authority's cure or attempt to cure any act or failure constituting the Default by Provider which occasioned termination of the Agreement shall not result in a waiver of such termination.

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SECTION TWELVE - TIME OF ESSENCE

Time shall be of the essence in this Agreement: Unless required by law, Authority shall not be required to execute and/or enter into any document or instrument for or on behalf of the Provider, pertaining to the provision of cellular service by Provider at the Cashman Center. Neither the Provider nor the Authority shall not record this Agreement or any document related to this Agreement.

SECTION THIRTEEN - ASSIGNMENT

1. Provider shall not assign the rights herein granted or any interest therein, and shall retain the complete, exclusive control of and responsibility for the rights granted hereby throughout the term hereof. Any assignment of Provider's interest herein can only be made by Authority in writing with specific reference to this section. Any assignment, which results from the merger or consolidation of the Provider or assignments between companies owned by the Provider or the Provider's parent company, will not violate the provisions of this Agreement.

2. Provider shall not sub-lease the Subject Facilities to another entity for any purposes, including but not limited to co-location of mobile telephone/data transmission equipment, without prior written approval of the Authority.

SECTION FOURTEEN - CONTROLLING LAW AND MERGER CLAUSE

All prior negotiations and understandings are merged herein and no change or any additional Agreement shall be of any effect unless in writing and signed by the party to be charged. This Agreement shall be interpreted and enforced under Nevada law, and this Agreement can only be enforced and/or interpreted in the State or Federal courts in the State of Nevada.

SECTION FIFTEEN - SEVERABILITY

If any provision of this Agreement or the application thereof, to any person or circumstance shall to any extent be invalid or unenforceable, the remainder of this Agreement, or the application of such provisions to persons or circumstances, other than those as to which it is invalid or unenforceable, shall not be affected thereby, and each provision of this Agreement shall be valid and enforced to the fullest extent permitted by law.

SECTION SIXTEEN - NOTICES

All notices, requests, demands and communications hereunder will be given by first class, certified or registered mail, return receipt requested, or by a recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notice will be addressed to the parties at the addresses set forth below:

Tenant: Southwestco Wireless, LP
d/b/a Verizon Wireless
180 Washington Valley Road
Bedminster, NJ 07921
Attention: Network Real Estate
Site: LSV Cashman

Landlord: Las Vegas Convention and
Visitors Authority
3150 Paradise Road
Las Vegas, NV 89109
Telephone: (702) 892-2950
Facsimile: (702) 892-2956

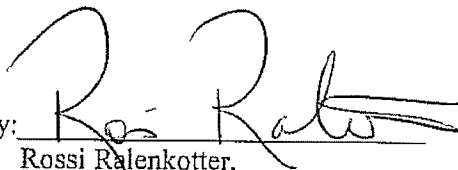
Either party hereto may change, the place for the giving of notice to it by written notice to the other as provided herein.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed by their duly authorized representatives on the day and year indicated above.

THIS IS AN ENFORCEABLE AGREEMENT. IF YOU DO NOT UNDERSTAND ANY TERM OR PROVISION OF THIS AGREEMENT, SEEK LEGAL ADVICE.

AUTHORITY:

LAS VEGAS CONVENTION AND
VISITORS AUTHORITY

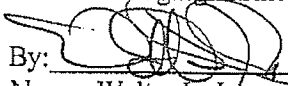
By: 
Rossi Ralenkotter,
President/CEO

Dated: 7/2/09

PROVIDER:

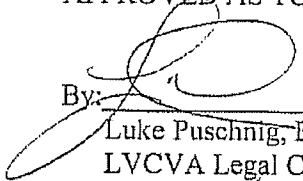
SOUTHWESTCO WIRELESS, LP,
d/b/a Verizon Wireless

By: Southwestco Wireless Inc.,
Its: Managing Partner

By: 
Name: Walter L. Jones, Jr.
Title: Area Vice President-Network

Dated: 6/25/09

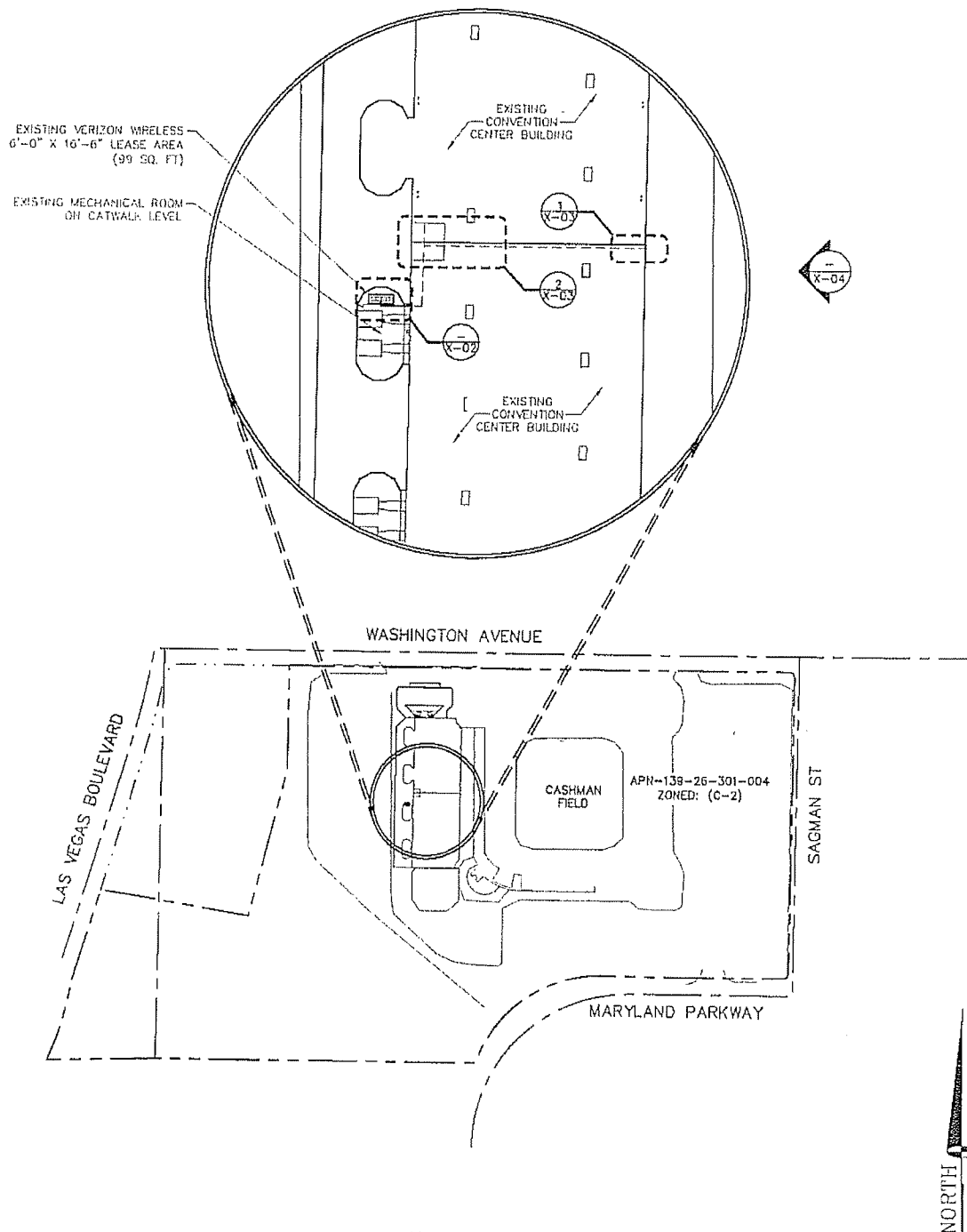
APPROVED AS TO FORM

By: 
Luke Puschnig, Esq.
LVCVA Legal Counsel

Dated: 06/08/09

EXHIBIT "A"

(Attached)



OVERALL SITE PLAN
SCALE: N.T.S.



SURVEYING & ENGINEERING
8905 W POST RD., SUITE 100
LAS VEGAS, NEVADA 89148
PH. (702) 367-7705
FAX (702) 367-8733



126 WEST GEMINI DRIVE
TEMPE, ARIZONA 85283

DRAWING TITLE:
EXHIBIT
PROJECT INFORMATION:
LSV CASHMAN CENTER

850 LAS VEGAS BLVD
LAS VEGAS, NEVADA 89155

PROPERTY OWNER:
LAS VEGAS CONVENTION &
VISITORS AUTHORITY
3150 PARADISE RD
LAS VEGAS, NEVADA 89155

DRAWING NO.
X-01

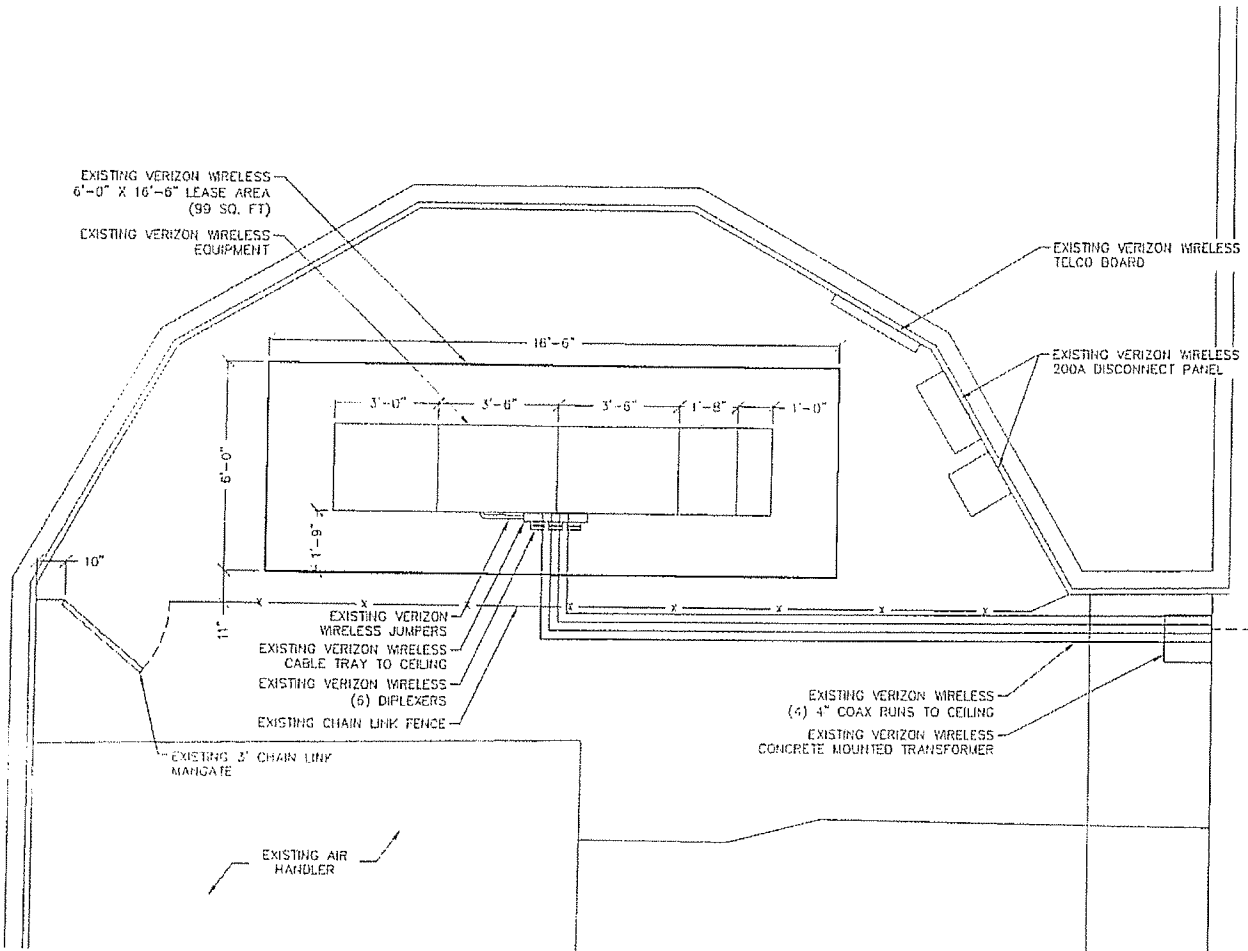
REVISION NO. 0	DRAWN BY: J. ASUNCION
DATE ISSUED: 06/15/09	CHECKED BY: M. CEFALU
SCALE: AS NOTED	APPROVED BY: C. WIEHER
SHEET NO. 1 OF 4	
SITE NO.: LSV-350-A	

EXISTING VERIZON WIRELESS
6'-0" X 16'-6" LEASE AREA
(99 SQ. FT)

EXISTING VERIZON WIRELESS
EQUIPMENT

EXISTING VERIZON WIRELESS
TELCO BOARD

EXISTING VERIZON WIRELESS
200A DISCONNECT PANEL



EQUIPMENT AREA DETAIL
SCALE: N.T.S.



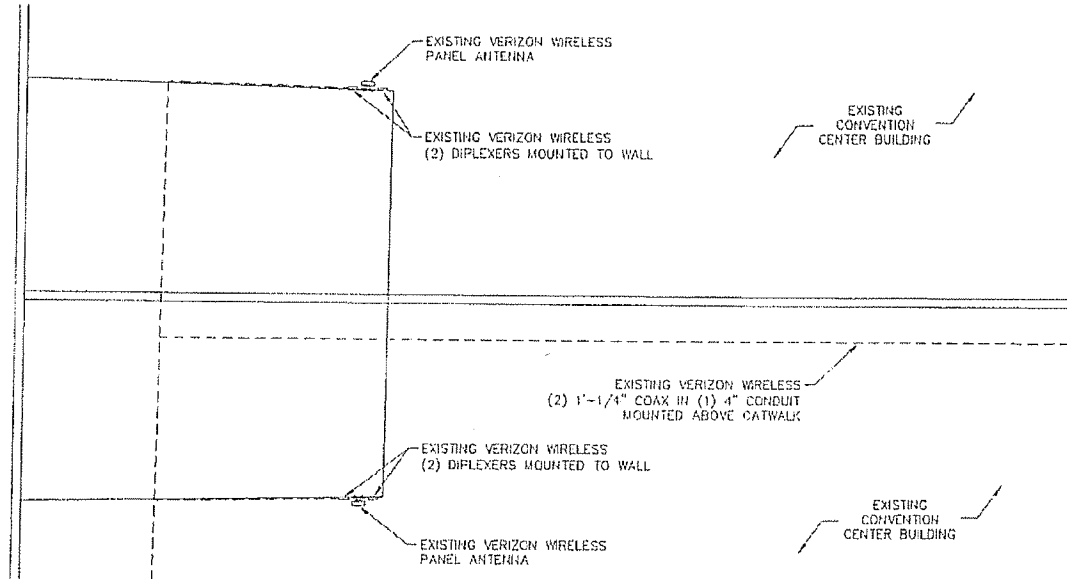
SPECTRUM
SURVEYING & ENGINEERING
8905 W POST RD., SUITE 100
LAS VEGAS, NEVADA 89148
PH. (702) 367-7705
FAX (702) 367-8733

verizonwireless
126 WEST GEMINI DRIVE
TEMPE, ARIZONA 85283

DRAWING TITLE:
EXHIBIT
PROJECT INFORMATION:
LSV CASHMAN CENTER
850 LAS VEGAS BLVD
LAS VEGAS, NEVADA 89155
PROPERTY OWNER:
LAS VEGAS CONVENTION &
VISITORS AUTHORITY
3150 PARADISE RD
LAS VEGAS, NEVADA 89155

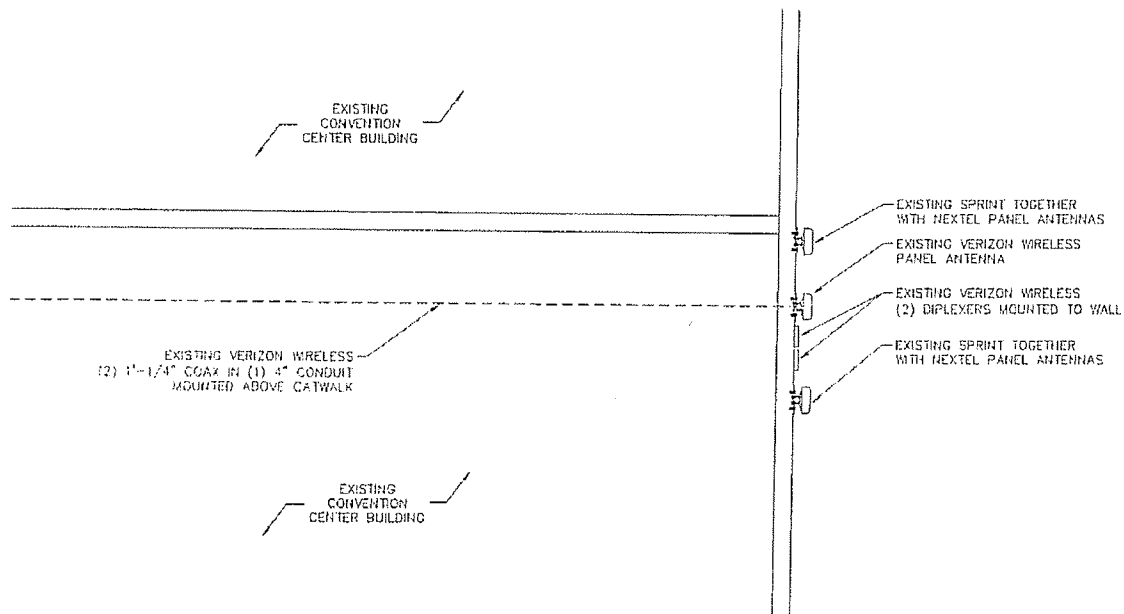
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X-02

REVISION NO. 0	DRAWN BY: J. ASUNCION
DATE ISSUED: 06/15/09	CHECKED BY: M. CEFALI
SCALE: AS NOTED	APPROVED BY: G. WEINER
	SHEET NO. 2 OF 4
SITE NO.: LSV-359-A	



EXISTING IN-BUILDING ANTENNA LOCATION

SCALE:
NTS 2



EXISTING EXTERIOR ANTENNA LOCATION

SCALE:
NTS 1



SURVEYING & ENGINEERING
8905 W POST RD., SUITE 100
LAS VEGAS, NEVADA 89148
PH. (702) 367-7705
FAX (702) 367-8733



126 WEST GEMINI DRIVE
TEMPE, ARIZONA 85283

DRAWING TITLE:
EXHIBIT

PROJECT INFORMATION:
LSV CASHMAN CENTER

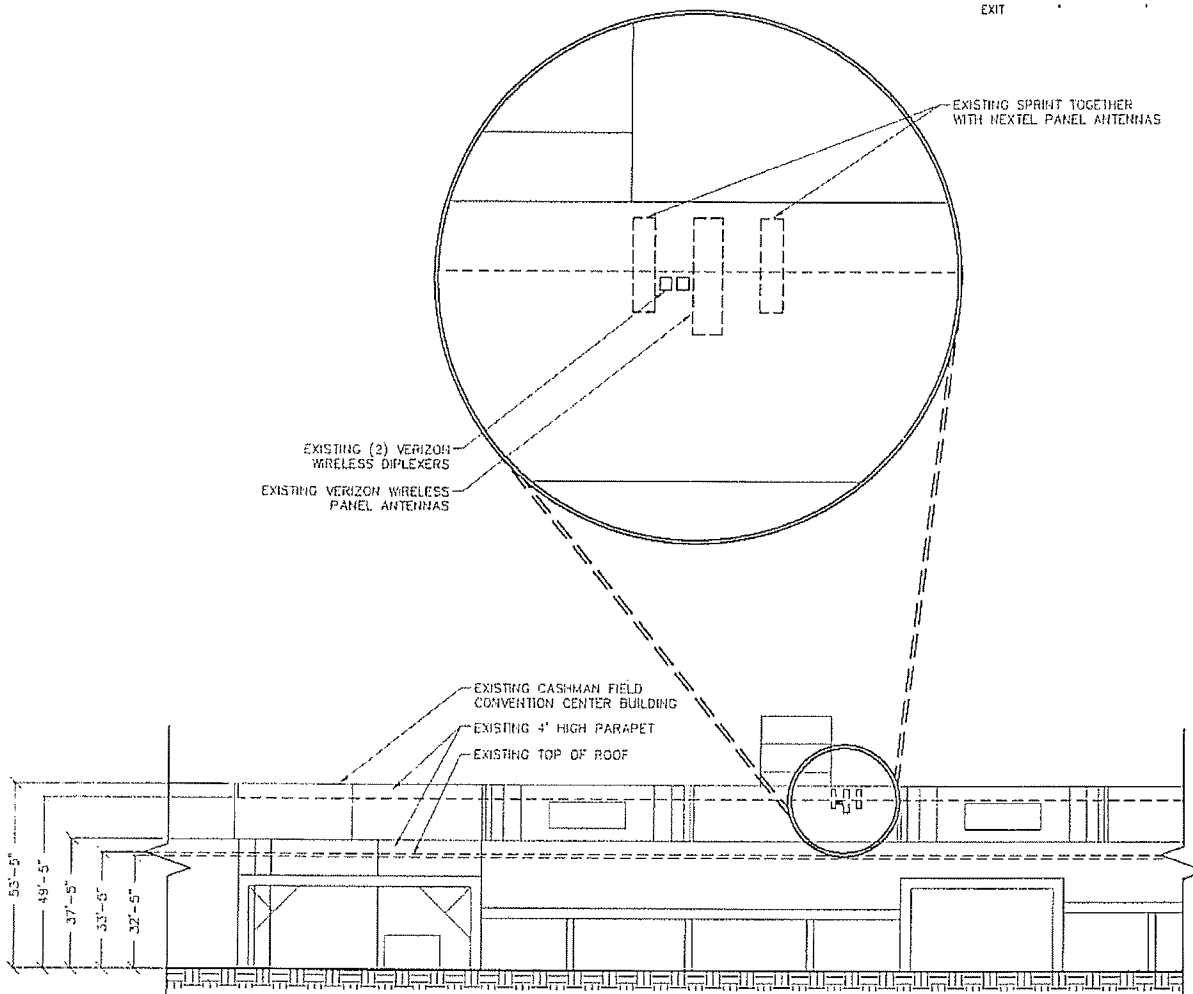
850 LAS VEGAS BLVD
LAS VEGAS, NEVADA 89155

PROPERTY OWNER:
LAS VEGAS CONVENTION &
VISITORS AUTHORITY
3150 PARADISE RD
LAS VEGAS, NEVADA 89155

DRAWING NO.
X-03

REVISION NO. 0	DRAWN BY: J. ASUNCION
DATE ISSUED: 08/15/09	CHECKED BY: M. CEPALU
SCALE: AS NOTED	APPROVED BY: C. WENER
SHEET NO. 3 OF 4	
SITE NO.: LSV-350-A	

	AZIMUTH	CENTERLINE
SECTOR 1	.	.
SECTOR 2	.	.
SECTOR 3	.	.
MICROWAVE	.	.
	QTY.	SIZE
COAX:	12	7/8
	AZIMUTH	CENTERLINE
PORTS: ENTRY	.	.
EXIT	.	.



EAST ELEVATION
SCALE: N.T.S.

SPECTRUM

SURVEYING & ENGINEERING
8905 W POST RD., SUITE 100
LAS VEGAS, NEVADA 89148
PH. (702) 367-7705
FAX (702) 367-8733

verizonwireless

126 WEST GEMINI DRIVE
TEMPE, ARIZONA 85283

DRAWING TITLE:
EXHIBIT

PROJECT INFORMATION:
LSV CASHMAN CENTER

850 LAS VEGAS BLVD
LAS VEGAS, NEVADA 89155

PROPERTY OWNER:
LAS VEGAS CONVENTION &
VISITORS AUTHORITY
3150 PARADISE RD
LAS VEGAS, NEVADA 89155

DRAWING NO.
X-04

REVISION NO. 0	DRAWN BY: J. ASUNCION
DATE ISSUED: 06/15/03	CHECKED BY: M. CEPALU
SCALE: AS NOTED	APPROVED BY: C. WOHNER
	SHEET NO. 4 OF 4
SITE NO.: LSV-350-A	

Wireless Communication Facility on Existing Ball Field Building
Verizon Wireless – LSV Cashman Field - Project Narrative
850 N. Las Vegas Blvd.
Las Vegas, NV 89101
APN: 139-26-301-004

Verizon Wireless is requesting an Administrative Review for a Minor Modification to a Wireless Communications Facility located at the Cashman Ball Field on a parcel designated with C-V CIVIC DISTRICT zoning. Verizon is proposing to replace (2) flush mounted, building mounted existing antennas on the Cashman Field Facility (Facing the Ball Field), adding (2) new Flush mount antennas, along with (1) junction box and (3) Remote Radio Heads at this same location flush mounted directly below the new antennas and painted to match the existing building color. According to the UDC 19.10.020, in the C-V Use district utility company facilities, including electrical power substation facilities, telephone switching stations and towers, water district facilities, cable TV lines and **wireless communication facilities are permitted uses**. The new/replacement antennas will be mounted flush with the top of the existing building wall at the existing building height of 54'-6". The replacement antennae array has a 50'-6" centerline. The current antenna centerline is 50'-6". Verizon is also replacing two antennas inside the facility as notated on the plans, but those will not be visible to the public. All associated ground equipment is housed inside the building and not visible or accessible by the public. There will be no changes to the existing ingress/egress (access) to the site either. This site will also meet the following design requirements in the UDC Article 19:

Per chapter 19.12 Wireless Communication Facility, Stealth Design:

Description: A wireless communication facility that is designed to blend into the surrounding environment. Examples include without limitation: antenna tower alternative structures; roof mounted antennas (with architectural screening when appropriate); **building mounted antennas painted to match the existing structure**; antennas integrated into architectural elements (such as steeples or cupolas); antennas and antenna structures designed to look like light poles, flagpoles, or any other camouflaging techniques available on the market; and a cable microcell network which utilizes multiple low powered transmitters/receivers or repeaters attached to existing wireline systems, such as conventional cable or telephone wires, or similar technology that does not require the use of towers.

The design must conform to the definition of the term "Wireless Communication Facility, Stealth Design," as set forth in LVMC 19.18.020 and as determined by the Director

The design and location of the proposed facility must be deemed by the Director to be compatible with surrounding uses, and the facility must include appropriate screening and landscaping to ensure such compatibility.

The frequencies used by the communication provider shall be in conformance with Federal Communication Commission standards, as certified by a competent professional (such as a radio frequency engineer). The current licenses in use will remain the same.

On-site Parking Requirement: No additional parking required beyond that which is required for the principal use(s) on the site.

The facility must qualify as one or more of the following:

a. An antenna that is to be collocated on an existing antenna tower or **other existing structure**.

b. **An antenna tower that is to be located on property in the C-V Zoning District.**

The applicant must submit to the Department, for administrative review and approval, a site plan and an elevation drawing. The Director shall review the documents to determine the applicable treatment of the proposed facility under these Conditional Use Regulations. If the Director, in his discretion:

a. Determines that the proposed facility is a collocation of new transmission equipment, a removal of transmission equipment **or a replacement of transmission equipment** that:

i. Does not increase the tower height by more than 10% or height of additional antenna array plus 20 feet, whichever is greater,

ii. Does not add more than 4 new equipment cabinets or 1 new shelter, and

iii. Does not contain a protrusion of more than 20 feet or the width or the tower, whichever is greater,

the Director shall approve the application as if permitted by right.

Determines that Paragraph (a) above does not apply and approves the proposed facility to proceed as a conditional use, the Director shall provide written notice of preliminary approval to the applicant, with a copy to the office of the City Council. That preliminary approval becomes final within 10 days after the notice has been mailed or delivered to the applicant, unless within that period a member of the City Council files with the Director a written request for the Council to review the approval. If such a request to review is filed, the application must first be reviewed and approved by the Council.

Except in the C-V Zoning District, no antenna tower that forms part of a facility may be located within 600 feet of:

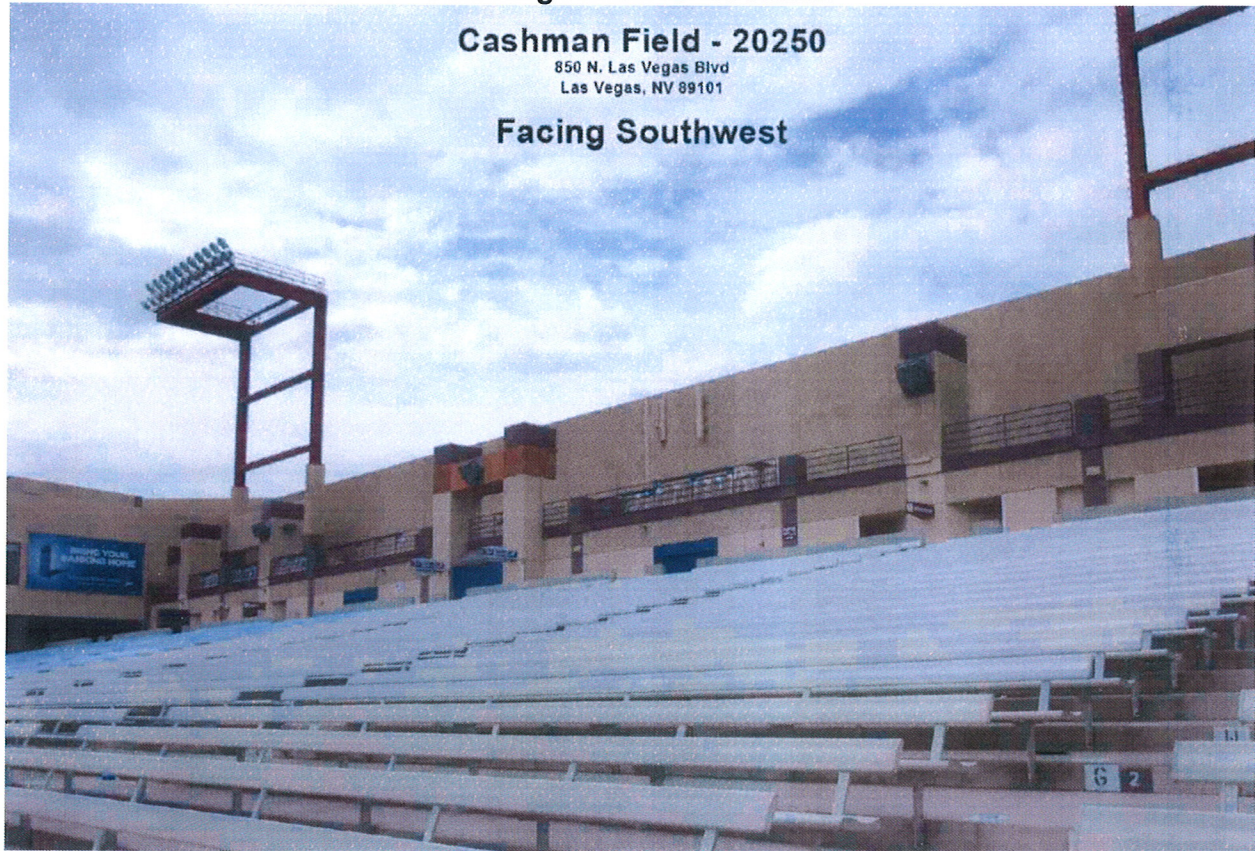
a. Any other antenna tower that forms part of a wireless communication facility; or

b. Any pole or tower structure of any other type that has a height of at least 60 feet.

Antenna towers and associated components shall be initially painted and thereafter repainted with a flat paint, using a color that is approved by the City Council. Except as otherwise required by the Federal Communications Commission or the Federal Aviation Administration, **the color of any antenna tower must generally match the surroundings or background so as to minimize its visibility.**

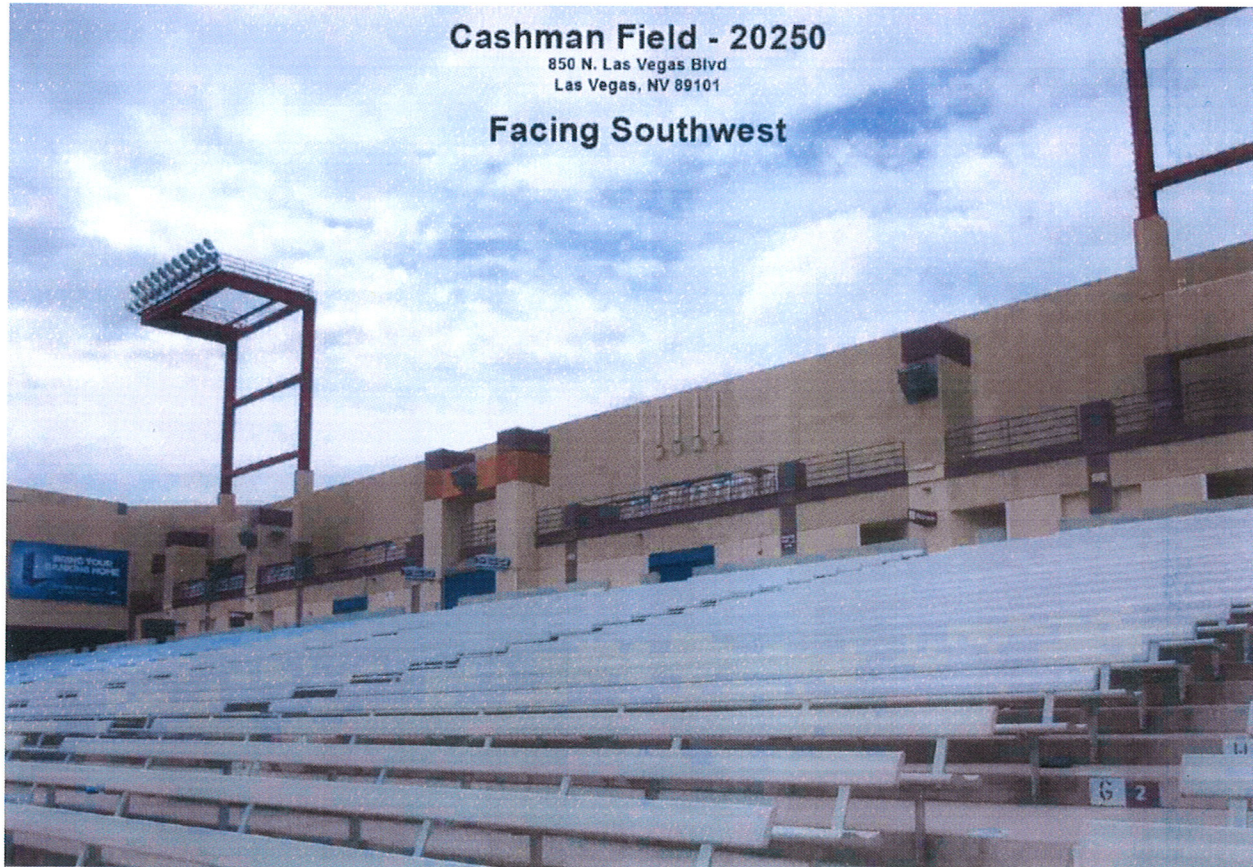
Below is a picture of the existing antennas at their location on the East side of the building (West side of the ball field).

Existing Antenna Location



Below is what the replacement antennas will look like with the RRH's and junction box added.

With Replacement Antennas



In addition to the requirements listed above, the following apply:

- A. The replacement antennas will meet the RF offload objectives as well as the structural capacity needs to ensure there will be no detriment to the health, safety, or general welfare of persons living or working in the vicinity, to adjacent properties, to the neighborhood, or to the public in general;
- B. The proposed modification conforms to the purposes, intent, and policies of the General Plan and its policies and any applicable area, neighborhood, or other plan officially adopted by Town Council;
- C. The proposed modifications conform with the conditions, requirements, or standards prescribed by the UDC and any other applicable local, State, or Federal requirements; and
- D. The proposed modifications, as conditioned, would not unreasonably interfere with the use and enjoyment of the property or any nearby properties.

Please let me know if you have any questions or need any additional information.

Thank you,



Nancy Smith



In Command Communications LLC

Mobile: 480-205-7142 - Fax: 623.218.1302

www.ICCommunications.net

nsmith.wingspanwireless@gmail.com

RECEIVED

Cashman Field - 20250

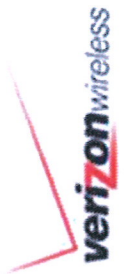
850 N. Las Vegas Blvd
Las Vegas, NV 89101



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SDR-625531



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City of Las Vegas

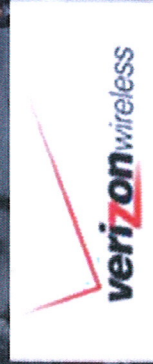
Disclaimer: This photo simulation is an artist's depiction of a future installation. The actual construction may vary slightly in size, layout, color and texture from this simulation.

Cashman Field - 20250

850 N. Las Vegas Blvd
Las Vegas, NV 89101

Facing West

SDR-62531



EXISTING



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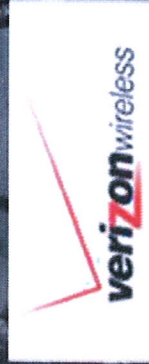
Disclaimer: This photo is for informational purposes only. The actual construction may vary slightly in size, layout, color and texture from this simulation.

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Las Vegas, NV 89101

Facing West

SDR-62531



PROPOSED



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Cashman Field - 20250

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Las Vegas, NV 89101

Facing Southwest

SDR-62531



EXISTING

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DEC 09 2011

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Disclaimer: This photo simulation is an artist's depiction of a future installation. The actual construction may vary slightly in size, layout, color and texture from this simulation.

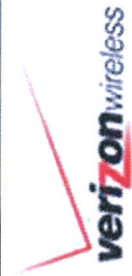
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Cashman Field - 20250

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Facing Southwest

SDR-62531



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09/2015

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City of Las Vegas

Disclaimer: This photo simulation is an artist's depiction of a future installation. The actual construction may vary slightly in size, layout, color and texture from this simulation.

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NOTES

This map is for assessment use only and does NOT represent a survey. No liability is assumed for the accuracy of the data delineated herein. Information on roads and other non-assessed parcels may be obtained from the Road Document Listing in the Assessor's Office.

This map is compiled from official records, including surveys and deeds, but only contains the information required for assessment. See the recorded documents for more detailed legal information.

USE THIS SCALE (FEET) WHEN MAP REDUCED FROM 11x17 ORIGINAL

0

100

200

300

400

500

MAP LEGEND

Parcel Boundary

Sub Boundary

PMID Boundary

Road Easement

Match/Leader Line

Historic Lot Line

Historic Sub Boundary

Historic PMID Boundary

Section Line

CONDOMINIUM UNIT

AIR SPACE PCL

RIGHT OF WAY PCL

SUB-SURFACE PCL

PB 24-45 PLAT RECORDING NUMBER

5 BLOCK NUMBER

5 LOT NUMBER

CL 5 GOV LOT NUMBER

001 ROAD PARCEL NUMBER

001 PARCEL NUMBER

1.00 ACREAGE

202 PARCEL SUBSEQUENCE NUMBER

PB 24-45 PLAT RECORDING NUMBER

5 BLOCK NUMBER

5 LOT NUMBER

CL 5 GOV LOT NUMBER

ASSESSOR'S PARCELS - CLARK CO., NV.

Michele W. Shafe - Assessor

T20S R61E

26

26

Scale: 1" = 200'

Rev: 02/09/2011

139-26-3

N 2 SW 4

MAP

CLARK COUNTY, NEVADA



Know what's below.
Call before you dig.

NOTE:
48 HOURS PRIOR TO
DIGGING, CONTRACTOR
TO NOTIFY ALL UTILITY
COMPANIES TO LOCATE
ALL UNDERGROUND
UTILITIES.

W-T Communication
Design Group's
Commitment to Quality



Please take a few moments
to fill out our online survey.

BUILDING CODES:

INTERNATIONAL BUILDING CODE - 2012
WSTATE AMENDMENTS
NATIONAL ELECTRICAL CODE - 2011
UNIFORM MECHANICAL CODE - 2012
UNIFORM PLUMBING CODE - 2012
INTERNATIONAL FIRE CODE - 2012

CD REVIEW NOTE:

NOTE TO REVIEWER:
ANY PLAN SIZE LESS THAN 11X17 IS
REDUCED IN SIZE AND SHOULD NOT BE
SCALED

SCOPE OF WORK:

- REMOVE (4) (E) ANTENNAS (1 AT ALPHA, 2 AT BETA, 1 AT GAMMA)
- INSTALL (6) (N) VERIZON WIRELESS ANTENNAS (1 AT ALPHA, 4 AT BETA, 1 AT GAMMA)
- INSTALL (6) (N) RRH'S (2 AT LEASE AREA FOR ALPHA & GAMMA, 1 AT BETA, 3 AT BETA PLANNED FOR FUTURE)
- INSTALL (1) (N) eCCM2 TO UTOOC TRDU
- INSTALL (1) (N) HYBRIFLEX CABLE (6X12)
- INSTALL (2) (N) OVP JUNCTION BOXES (1 AT LEASE AREA, 1 AT BETA)
- INSTALL (8) (N) DIPLEXERS (4 AT LEASE AREA, 2 AT ALPHA, 2 AT GAMMA)
- INSTALL (2) (N) SMART BIAS-T (1 AT ALPHA, 1 AT GAMMA)

STRUCTURAL REVIEW NOTE:

W-T'S SCOPE OF WORK DOES NOT INCLUDE
A STRUCTURAL EVALUATION OF THIS TOWER
OR STRUCTURE. NEW ANTENNAS & EQUIPMENT
SHOWN ON THIS PLAN HAVE NOT BEEN
EVALUATED TO VERIFY THE TOWER OR
STRUCTURE HAS THE CAPACITY TO
ADEQUATELY SUPPORT THESE ANTENNAS &
EQUIPMENT. PRIOR TO ANY ANTENNA OR
EQUIPMENT INSTALLATION, A STRUCTURAL
EVALUATION OF THE TOWER OR STRUCTURE,
INCLUDING ALL MOUNTING SYSTEMS AND
HARDWARE, SHOULD BE PERFORMED.

PROJECT SIGNOFF:

REAL ESTATE: _____

RFD: _____

CONSTRUCTION: _____

OPERATIONS: _____



LSV CASHMAN FIELD – AWS

850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

SITE ID # 20250

AWS ANTENNA UPGRADE PROJECT AT
EXISTING TELECOMMUNICATION SITE

VERIZON WIRELESS
475 ROCK QUARRY WAY
NORTH LAS VEGAS, NV 89032
CLARK COUNTY

DRAWING INDEX

SHEET NO. DESCRIPTION

T-1	TITLE SHEET
N-1	GENERAL NOTES
N-2	GENERAL NOTES
N-3	GENERAL NOTES
C-1	OVERALL SITE PLAN
C-2	EQUIPMENT PLAN
C-3	PROPOSED UTILITY PLAN
C-4	TOWER ELEVATION - EXISTING / PROPOSED
C-4.1	TOWER ELEVATION - EXISTING / PROPOSED
C-4.2	TOWER ELEVATION - EXISTING / PROPOSED
C-5	ANTENNA PLAN - EXISTING / PROPOSED
C-6	ANTENNA & RRH MOUNTING DETAILS
C-7	RRH & EQUIPMENT DETAILS
C-8	ANTENNA DETAILS
C-9	ANTENNA DETAILS
C-10	ANTENNA CABLE DIAGRAM
G-1	GROUNDING DETAILS

C	11/12/15	CLIENT REVISIONS
B	10/28/15	REVISED FOR REVIEW
A	10/21/15	ISSUED FOR REVIEW
NO.	DATE	REVISION

DATA	POWER COMPANY	TELEPHONE COMPANY
LATITUDE: 36° 10' 50.3" N LONGITUDE: 115° 01' 52.2" W ELEVATION: 1964' AGL (OBTAINED FROM GOOGLE EARTH)	NV ENERGY 6226 W. SAHARA AVENUE LAS VEGAS, NV 89146 PH: (702) 402-5555	CENTURYLINK (800) 788-3600
SITE INFORMATION	STRUCTURE OWNER	SITE REP
JURISDICTION: CITY OF LAS VEGAS AFN: 139-26-301-004 ZONING: C-V OCCUPANCY: U-UTILITY CONSTRUCTION TYPE: EXISTING	COUNTY OF CLARK (LAS VEGAS CONVENTION AUTHORITY) 500 S. GRAND CENTRAL PKWY. LAS VEGAS, NV 89155 CHRIS MARSH PH: (702) 892-0711	VERIZON CONSTRUCTION MANAGER PAT MCFARLAND PH: (702) 408-2470

PROFESSIONAL ENGINEER	STRUCTURAL ENGINEER	APPLICANT
W-T COMMUNICATION DESIGN GROUP, LLC 8560 S. EASTERN AVENUE #220 LAS VEGAS, NEVADA 89123 PH: (702) 998-1000	TOWERCOM TECHNOLOGIES 161 N. STAR ROAD STAR, ID 83669 PH: (208) 286-0266	VERIZON WIRELESS 475 ROCK QUARRY WAY NORTH LAS VEGAS, NV 89032

CONTACT: RYAN GROSS
PH: (702) 998-1012

SITE DIRECTIONS

DIRECTIONS FROM 475 ROCK QUARRY WAY, NORTH LAS VEGAS, NV 89032:
HEAD WEST ON ROCK QUARRY WAY TOWARD ENGLESTAD ST, TURN LEFT ONTO ENGLESTAD ST. TURN LEFT ONTO W CHEYENNE AVE. USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-15 S. TAKE EXIT 44 FOR WASHINGTON AVENUE TOWARD D STREET/CITY PARKWAY, TURN LEFT ONTO W WASHINGTON AVE. DESTINATION WILL BE ON THE RIGHT

W-T	W-T COMMUNICATION DESIGN GROUP, LLC. WIRELESS INFRASTRUCTURE	SDR-62531
	8560 S. Eastern Avenue #220 Las Vegas, Nevada 89123 PH: (702) 998-1000 FAX: (702) 998-1010 www.wtengineering.com	RECEIVED DEC 09 2015
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LSV CASHMAN FIELD AWS

DATE DRAWN:	10/20/15	DRAWN BY:	DYP
APPROVED BY:	RJG	W-T PROJECT NO.	T1505480
SITE ID # 20250			SHEET: T-1

1. FOR THE PURPOSE OF THESE SPECIFICATIONS, THE FOLLOWING DEFINITIONS SHALL APPLY: CONTRACTOR, GENERAL CONTRACTOR OWNER, VERIZON PROJECT MANAGER, VERIZON WIRELESS OR DESIGNATED ALTERNATE LESSEE, VERIZON WIRELESS.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE A MINIMUM 5 YEARS OF TELECOM EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF NEVADA.
3. THE CONTRACTOR SHALL NOT PROCEED WITH CONSTRUCTION ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT WITHOUT WRITTEN AUTHORIZATION FROM OWNER, OWNER'S REPRESENTATIVE OR ENGINEER.
4. THE CONTRACTOR SHALL NOTIFY THE TOWER OWNER'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THAT CONFLICT IS RESOLVED BY TOWER OWNER'S REPRESENTATIVE.
5. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
6. IF ANY FIELD CONDITIONS PRECLUDE COMPLIANCE WITH THE DRAWINGS AND OR CONDITIONS SPECIFIED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CONSTRUCTION MANAGER AND SHALL NOT PROCEED WITH ANY WORK THAT WOULD BE AFFECTED.
7. ALL HARDWARE MANUFACTURER'S ASSEMBLY INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
8. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
9. ALL DIMENSIONS, ELEVATIONS AND EXISTING CONDITIONS SHOWN ON THE DRAWING SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATIONS. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, EQUIPMENT, TOOLS, LABOR AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
10. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF SPECIFIED QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, FEDERAL, AND OSHA SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
12. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
13. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR. CONTRACTOR SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
14. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
15. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) OFFICIAL.
16. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.

37. CONTRACTOR SHALL LEAVE PREMISES IN CLEAN CONDITION.

Dept of Planning
City of Las Vegas

[illegible]

ELECTRICAL NOTES:

SCOPE:
SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON THE DRAWING AS SPECIFIED HEREIN:
A. ELECTRIC SERVICE B. MISCELLANEOUS MATERIALS
C. CONDUIT AND RACEWAY D. TELEPHONE CONDUITS
E. CONDUCTORS F. LIGHTNING ARRESTING SYSTEM

GENERAL:
1. REQUIREMENTS: FURNISH ALL LABOR, MATERIALS, SERVICE, EQUIPMENT AND APPLIANCES REQUIRED TO COMPLETE THE INSTALLATION OF THE COMPLETE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND CONTRACT DRAWINGS.
2. REQUIREMENTS OF REGULATORY AGENCIES AND STANDARDS: INSTALLATION, MATERIAL, EQUIPMENT AND WORKMANSHIP SHALL CONFORM TO THE APPLICABLE PROVISIONS OF:
NEC - NATIONAL ELECTRIC CODE UL - UNDERWRITERS LABORATORY
NEMA - NATIONAL ELEC MFR'S ASSOC. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT
IBC - INTERNATIONAL BUILDING CODE NFPA - NATIONAL FIRE PROTECTION ASSOC.
REGULATIONS OF THE SERVING UTILITY COMPANY
THE TERMS AND CONDITIONS OF THE AUTHORITIES HAVING LAWFUL JURISDICTION PERTAINING TO THE WORK REQUIRED.
3. ALL MODIFICATIONS REQUIRED BY THESE CODES, RULES, REGULATIONS AND AUTHORITIES SHALL BE MADE BY THE CONTRACTOR WITHOUT ADDITIONAL CHARGE TO THE OWNER. ALL MATERIALS, APPLIANCES OR DEVICES SHALL CONFORM TO THE APPLICABLE UNDERWRITER'S LABORATORIES STANDARDS, INCLUDING THE LABEL OF OR LISTING BY: UL AS REQUIRED.
4. ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT (NEW AND EXISTING) SHALL BE FIELD VERIFIED WITH THE OWNER'S REPRESENTATIVE AND EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN OF CONDUIT AND WIRE. ALL EQUIPMENT SHALL BE PROPERLY CONNECTED ACCORDING TO THE NAMEPLATE DATA FURNISHED ON THE EQUIPMENT (THE DESIGN OF THESE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AT THE TIME OF DESIGN AND SOME EQUIPMENT CHARACTERISTICS MAY VARY FROM DESIGN AS SHOWN ON THESE DRAWINGS). LOCATION OF ALL OUTLET, BOXES, ETC. AND THE TYPE OF CONNECTION (PLUG OR DIRECT) SHALL BE CONFIRMED WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN
5. ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A CERTIFICATE OF COMPLETION AND APPROVAL.
6. CONDUIT SIZES, WIRE TYPE AND SIZE ARE DETERMINED BY OWNER AND ARE SUBJECT TO LOCAL AND STATE CODES.
7. WHEN THE DIRECTION OF THE CONDUCTOR MUST CHANGE, IT SHALL BE DONE GRADUALLY. THE CURVATURE OF THE TURN SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

GROUNDING CONDUCTOR	MIN BEND RADIUS TO INSIDE EDGE
1/2 AWG - 1/0	8 INCHES
2/0 AWG - 4/0 AWG	12 INCHES
250 MCM - 750 MCM	24 INCHES

8. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED AND A MINIMUM OF 10,000 AIR
9. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS WITH WHITE ON BLUE BACKGROUND LETTERING (MIN LETTER HEIGHT 1/4"). NAME PLATES WILL BE FASTENED WITH STAINLESS STEEL SCREWS, NO ADHESIVE.

TESTING:
UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:
IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FROM DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER WITHOUT EXPENSE TO THE OWNER. ALL WARRANTY CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER AT COMPLETION OF PROJECT.

COORDINATION:
CONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:
PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE JOB SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:
1. COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
2. ALL NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING SHALL BE PROVIDED BY THIS CONTRACTOR

3. WHEN SILICONE SEALANT WILL CONTACT BARE COPPER WIRE, IT SHALL BE ELECTRIC/ELECTRONIC GRADE SILICONE RUBBER, DOW-CORNING 3140 OR EQUIVALENT.

CONDUIT:
1. ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.
2. ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE RIGID STEEL, EMT OR SCH40 PVC AS INDICATED ON THE DRAWINGS.
3. WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE RIGID STEEL. "ALUMINUM" CONDUIT SHALL NOT BE ALLOWED.
4. CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT.
5. UNDERGROUND CONDUITS SHALL BE RIGID STEEL OR SCHEDULE 40 PVC AS INDICATED ON THE DRAWINGS.
6. GROUND RING CONNECTION CONDUCTORS SHALL BE OF EQUAL LENGTH, MATERIAL AND BONDING TECHNIQUE.
7. CONTRACTOR SHALL ENSURE GROUND RING IS WITHIN 12" TO 36" OF THE SHELTER FOUNDATION. PROVIDE AND INSTALL GROUNDING CONNECTIONS SHOWN BELOW AS NEEDED PER EXISTING SITE GROUND SYSTEM. CONTRACTOR SHALL VERIFY ALL EXISTING SITE GROUNDING CONDITIONS BEFORE STARTING WORK OR PURCHASING EQUIPMENT.
8. BOND GROUND BAR TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 BARE, TINNED, SOLID COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD. BONDING CONDUCTORS SHALL BE ROUTED THROUGH A 3/4" PVC CONDUIT SLEEVE RUN UNDER THE FOUNDATION. REFER TO THE GROUNDING PLAN ON SHEET G1.
9. ALL CONDUIT RUNS SHALL USE NEC APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
10. PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH NEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.
11. BURIAL DEPTH OF ALL CONDUITS SHALL BE REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION.
12. CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.
13. ALL GROUNDING CONDUCTORS INSIDE OF BUILDING SHALL BE RUN IN CONDUIT RACEWAY SYSTEM, AND SHALL BE INSTALLED AS STRAIGHT AS PRACTICAL WITH MINOR BENDS TO AVOID OBSTRUCTIONS, THE BENDING RADIUS OF ANY #2 GROUNDING CONDUCTOR IS 8". PVC RACEWAY MAY BE FLEXIBLE OR RIGID PER THE FIELD CONDITIONS. GROUNDING CONDUCTORS SHALL NOT MAKE CONTACT WITH ANY METALLIC CONDUITS, SURFACES OR EQUIPMENT. CONDUIT UNDER ROADS SHALL BE ENCASED IN CONCRETE MINIMUM OF 4" SURROUNDING CONDUIT.
14. PROVIDE PVC SLEEVES WHERE GROUNDING CONDUCTORS PASS THROUGH THE BUILDING WALLS AND/OR CEILINGS.
15. THE ANTENNA CABLES SHALL BE GROUNDED AT THE TOP AND BOTTOM OF THE VERTICAL RUN FOR LIGHTNING PROTECTION. THE ANTENNA CABLE SHIELD SHALL BE BONDED TO A COPPER GROUND BUSS AT THE LOWER MOST POINT OF A VERTICAL RUN JUST BEFORE IT BEGINS TO BEND TOWARD THE HORIZONTAL PLANE. WIRE RUNS TO GROUND SHALL BE KEPT AS STRAIGHT AND SHORT AS POSSIBLE. ANTENNA CABLE SHIELD SHALL BE GROUNDED JUST BEFORE ENTERING THE CELL CABINET. ANY ANTENNA CABLES OVER 200 FEET IN LENGTH SHALL ALSO BE EQUIPPED WITH ADDITIONAL GROUNDING AT MID POINT.
16. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC TABLE 346-10. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12" MIN. INSIDE SWEEPS FOR ALL CONDUITS 2" OR LARGER.
17. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUNDING BUSHINGS.

ENCLOSURES:
ANY ENCLOSURES PURCHASED BY THE CONTRACTOR SHALL BE STAINLESS STEEL NEMA 4X (WEATHERPROOF) CONSTRUCTION.

GROUNDING:
1. ALL ELECTRICAL NEUTRALS, RACEWAYS AND NON-CURRENT CARRYING PARTS OF ELECTRICAL EQUIPMENT AND ASSOCIATED ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH NEC ARTICLE 250. THIS SHALL INCLUDE NEUTRAL CONDUCTORS, CONDUITS, SUPPORTS, CABINETS, BOXES, GROUND BUSSES, ETC. THE NEUTRAL CONDUCTOR FOR EACH SYSTEM SHALL BE GROUNDED BY ONE POINT ONLY.
2. PROVIDE GROUND CONDUCTOR IN ALL RACEWAYS.
3. PROVIDE BONDING AND GROUND TO MEET NFPA 780 - LIGHTNING PROTECTION AS A MINIMUM.
4. PROVIDE GROUNDING SYSTEM AS INDICATED ON THE DRAWINGS, AS REQUIRED BY THE NATIONAL ELECTRIC CODE AND RADIO EQUIPMENT MANUFACTURER.
5. ALL DETAILS ARE SHOWN IN GENERAL DIAGRAMMATIC TERMS. ACTUAL GROUNDING INSTALLATION REQUIREMENTS AND CONSTRUCTION SHALL BE BASED ON SITE CONDITIONS.
6. OBSERVE N.E.C. AND LOCAL UTILITY REQUIREMENTS FOR ELECTRICAL SERVICE GROUNDING.
7. CONTRACTOR SHALL VERIFY THAT GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 30" BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 10'-0" CENTERS MINIMUM (15'-0" MAX), PROVIDE AND INSTALL AS REQUIRED PER PLAN.
8. BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250.30.
9. ALL GROUNDING INSTALLATIONS AND CONNECTIONS SHALL BE MADE BY ELECTRICAL CONTRACTOR

10. GROUND RING SHALL BE LOCATED AT MINIMUM OF 30" BELOW GRADE OR 6" MINIMUM BELOW THE FROST LINE, WHICHEVER IS GREATER.
11. GROUND BAR LOCATED AT BASE OF TOWER WILL BE FURNISHED BY OWNER AND INSTALLED BY THE CONTRACTOR (IF NOT PRESENT).
12. UV RATED INSULATORS SUPPLEMENTARY GROUND: #2/0 AWG STRANDED INSULATED COPPER WIRE ROUTED ALONG BLACK OF EQUIPMENT LINE-UP, TIED DOWN WITH NON-METALLIC CLAMPS EVERY 4 FT. THE EQUIPMENT CABINETS, ETC., SHALL BE CONNECTED TO THIS GROUND CABLE. BOTH ENDS OF THIS GROUND CABLE SHALL BE CONNECTED TO THE BURIED GROUND RING USING EXOTHERMIC WELD (CADWELD). SEE DETAILS FOR GROUNDING EQUIPMENT.
13. COAX GROUND: PROVIDE GROUND BARS AT TOWER BASE AND AT END OF THE ICE BRIDGE NEAR EQUIPMENT CABINETS. EXTEND (2) #2 AWG T89C GROUND WIRE FROM BURIED GROUND RING UP TO EACH GROUND BAR AND MAKE CADWELD CONNECTION TO GROUND BAR.
14. GROUND KIT CONNECTION ON COAX CABLE SHALL BE LOCATED NO MORE THAN 6" ABOVE BEGINNING OF CABLE BEND ON VERTICAL COAX.
15. ICE BRIDGE: PROVIDE #2 AWG 19C WIRE (W/ GREEN PVC JACKET) GROUNDING JUMPER BETWEEN ANY DISCONTINUOUS SECTIONS OF ICE BRIDGE COVER.
16. ALL CADWELD CONNECTIONS ON GALVANIZED SURFACES SHALL BE CLEANED THOROUGHLY AND COVERED W/ (2) COATS GALVITE PAINT B350W3 (OR EQUIVALENT).
17. ALL ELECTRICAL AND MECHANICAL GROUND CONNECTIONS SHALL HAVE NON-OXIDATION COMPOUND APPLIED TO CONNECTION.
18. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE A "FALL POTENTIAL" TEST ON THE NEW SUPPLEMENTAL GROUND FIELD PRIOR TO FINAL CONNECTION OF THE GROUNDING SYSTEM TO EQUIPMENT. THE TEST SHALL BE PERFORMED BY A QUALIFIED AND CERTIFIED TESTING AGENT. PROVIDE INDEPENDENT TEST RESULTS TO THE PROJECT MANAGER FOR REVIEW. THE GROUND SYSTEM RESISTANCE TO EARTH GROUND SHALL NOT EXCEED FIVE (5) OHMS. IF THE GROUND TEST EXCEEDS THE MAXIMUM OF 5 OHMS THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE ADDITIONAL GROUND CONNECTIONS AS REQUIRED TO MEET THE 5 OHMS MAXIMUM.
19. CONTRACTOR SHALL SUBMIT THE GROUND RESISTANCE TEST REPORT AS FOLLOWS:
A. ONE (1) COPY TO OWNER REPRESENTATIVE
B. ONE (1) COPY TO ENGINEER
C. ONE (1) COPY TO KEEP INSIDE EQUIPMENT ENCLOSURE

EQUIPMENT
1. ALL DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
2. NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK.
3. GROUND ANTENNA BASES, FRAMES, CABLE RACKS AND OTHER METALLIC COMPONENTS WITH #2 GROUNDING CONDUCTORS AND CONNECT TO INSULATED SURFACE MOUNTED GROUND BARS. CONNECTION DETAILS SHALL FOLLOW MANUFACTURER'S SPECIFICATIONS FOR GROUNDING.
4. ALL PANEL DIRECTORIES SHALL BE TYPE WRITTEN NOT HAND WRITTEN
5. PROVIDE FULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY NEC.

CONDUCTORS
1. FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS SHALL HAVE TYPE THHN (MIN) (75 DEGREE) INSULATION, RATED FOR 600 VOLTS.
2. ALL CONDUCTORS SHALL BE COPPER, THE USE OF "ALUMINUM" CONDUCTORS SHALL NOT BE ALLOWED. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:

- A. MINIMUM WIRE SIZE SHALL BE #12 AWG.
- B. ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZE #10 AND SMALLER MAY BE SOLID OR STRANDED.
- C. CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
- D. CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.

3. ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH NEC STANDARDS.
4. THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS.

PENETRATIONS:
1. CONTRACTOR SHALL COMPLY WITH UL PENETRATION DETAILS FOR PENETRATIONS OF ALL RATED WALLS, ROOF, ETC.
2. SEAL ALL CONDUIT PENETRATIONS THROUGH WALL AND FLOORS WITH APPROVED GROUT, TO WITHIN 1/4" OF WALL SURFACE, SEAL TO ELEMENTS WITH 50 YEAR 100% SILICONE SEALANT.
3. ALL WIRE CABLES INCLUDING COAX AND GROUNDING PENETRATING WALLS, FLOORS, OR ROOF SHALL BE SEALED INSIDE AND OUT WITH 50 YEAR 100% SILICONE SEALANT.

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DYP

APPROVED BY:
RJG

PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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WIRELESS INFRASTRUCTURE
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Las Vegas, Nevada 89123
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PROJECT NO: T1505460

SHEET NAME
GENERAL NOTES

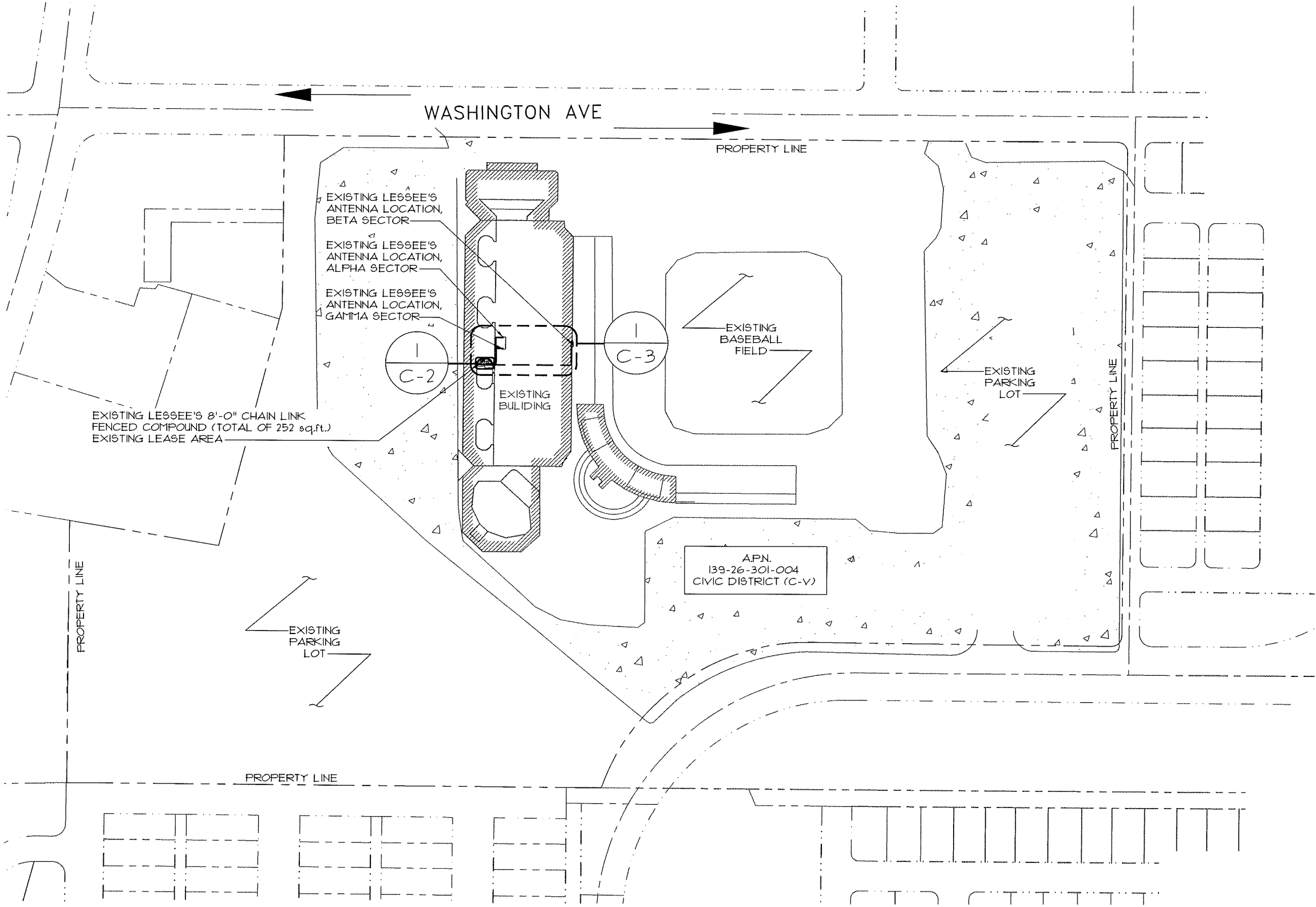
SHEET NUMBER
N-2

CLIENT REVISIONS
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C 11/12/15
B 10/29/15
A 10/21/15

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NOTE:
NO LAND SURVEY HAS BEEN
PERFORMED ON THIS SITE. ALL
PARCEL/PROPERTY LINES
SHOWN ARE APPROXIMATE
LOCATIONS.



1 OVERALL SITE PLAN
SCALE: 1" = 200'-0"



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475 ROCK QUARRY WAY
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CLARK COUNTY

DATE DRAWN:	10/16/15
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APPROVED BY:	R/JG

**PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250**
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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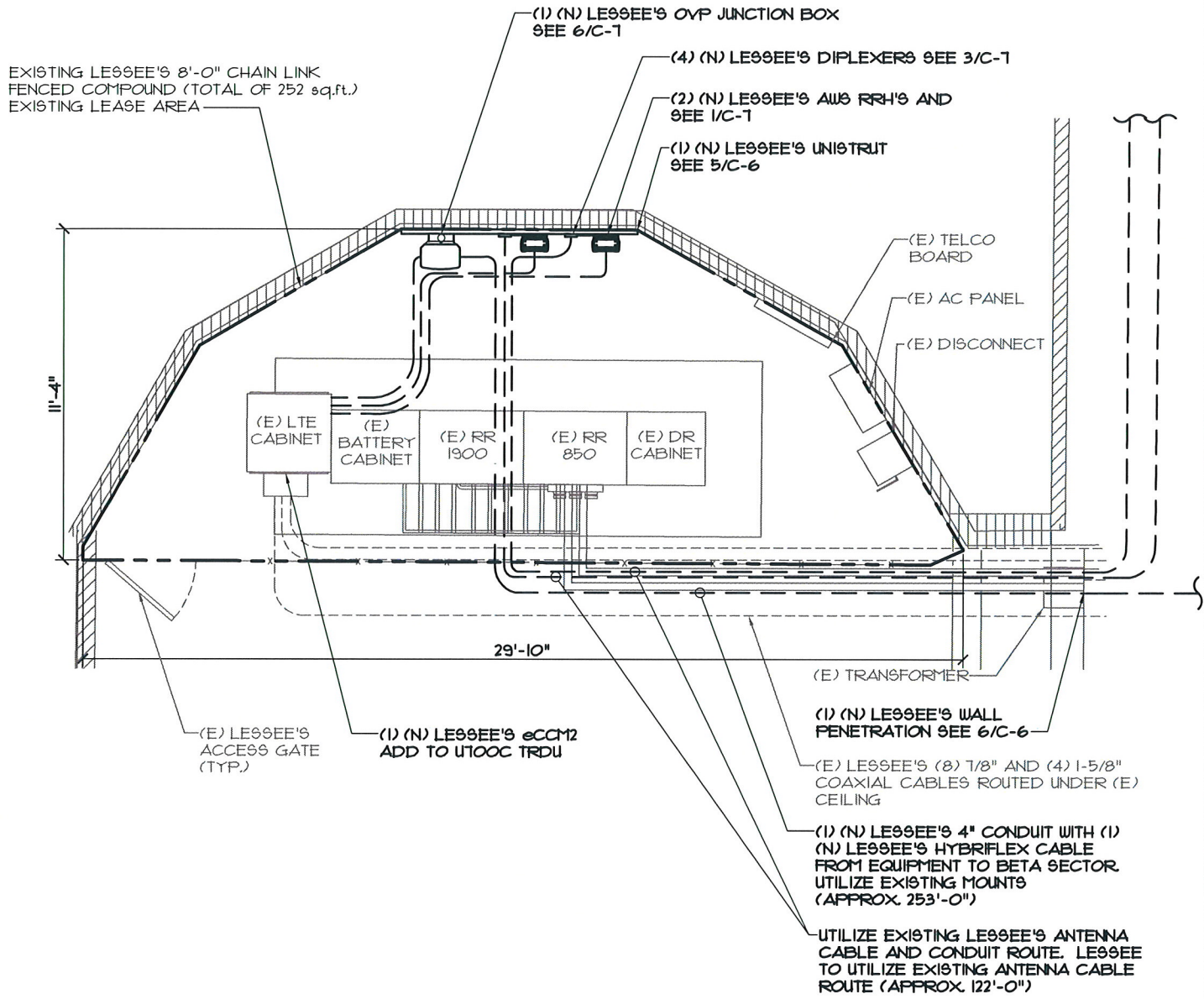
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PROJECT NO:	T1505460
SHEET NAME	OVERALL SITE PLAN
SHEET NUMBER	C-1

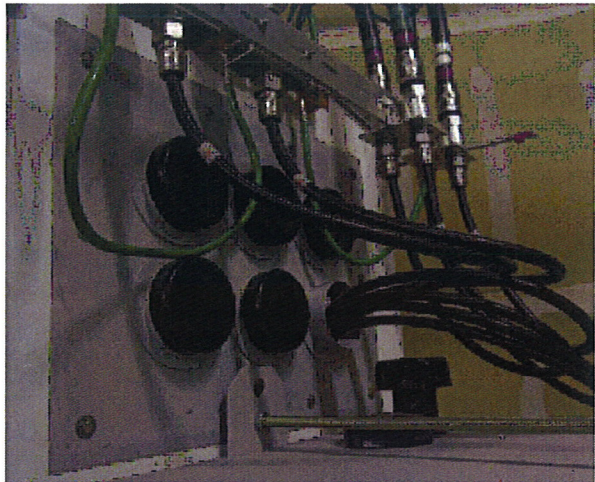
STRUCTURAL ANALYSIS NOTE:

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NOTE: CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING THE MOST CURRENT SMR WITHIN 24 HOURS OF CONSTRUCTION AND VERIFYING FINAL RF CONFIGURATION AND NOTIFY CARRIER AND ENGINEERING FIRM WITH ANY DISCREPANCIES.



1 EQUIPMENT PLAN
SCALE: 3/16" = 1'-0"



LTE CABINET ENTRY PORT

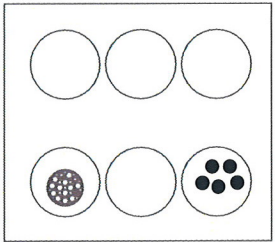


COAX SHELTER ENTRY PORT

CABLE LENGTHS*			
SECTOR	ALPHA	BETA	GAMMA
HORIZONTAL	±9'	±210'	±9'
VERTICAL	±20'	±20'	±20'
10% EXTRA	±11'	±23'	±11'
TOTAL (FT)	±122'	±253'	±122'

*ALL DIMENSIONS SHOULD BE FIELD VERIFIED

2 COAX DIAGRAM & CABLE LENGTHS
SCALE: NONE



LEGEND	
	1/2" GPS CABLE
	7/8" COAX CABLE
	1-5/8" COAX CABLE
	EW 52 CABLE
	EW 63 CABLE
	(2) EW 63 CABLES
	EW 180 CABLE
	1-1/4" COAX CABLE
	OPEN PORT
	6x12 HYBRIFLEX CABLE
	1/4" CABLE

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REVISION

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11/12/15

10/28/15

10/21/15

NO.

DATE

475 ROCK QUARRY WAY
NORTH LAS VEGAS, NV 89032
CLARK COUNTY

DATE DRAWN:
10/16/15

DRAWN BY:
DYP

APPROVED BY:
RJG

PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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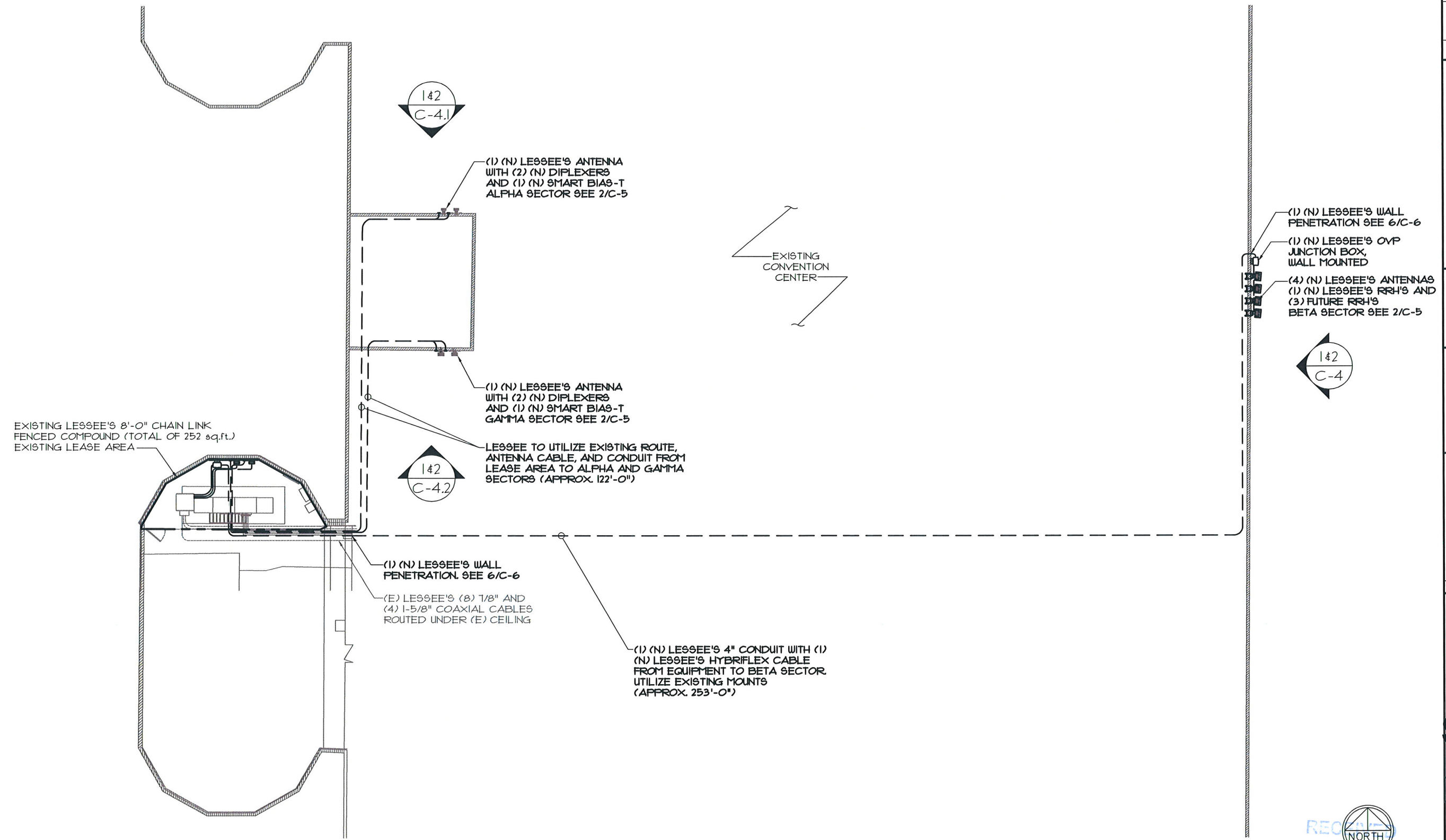
PROJECT NO: T1505460

SHEET NAME
EQUIPMENT PLAN

SHEET NUMBER
C-2

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City of Las Vegas

NOTE:
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LOCATIONS.



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CLARK COUNTY

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**PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250**
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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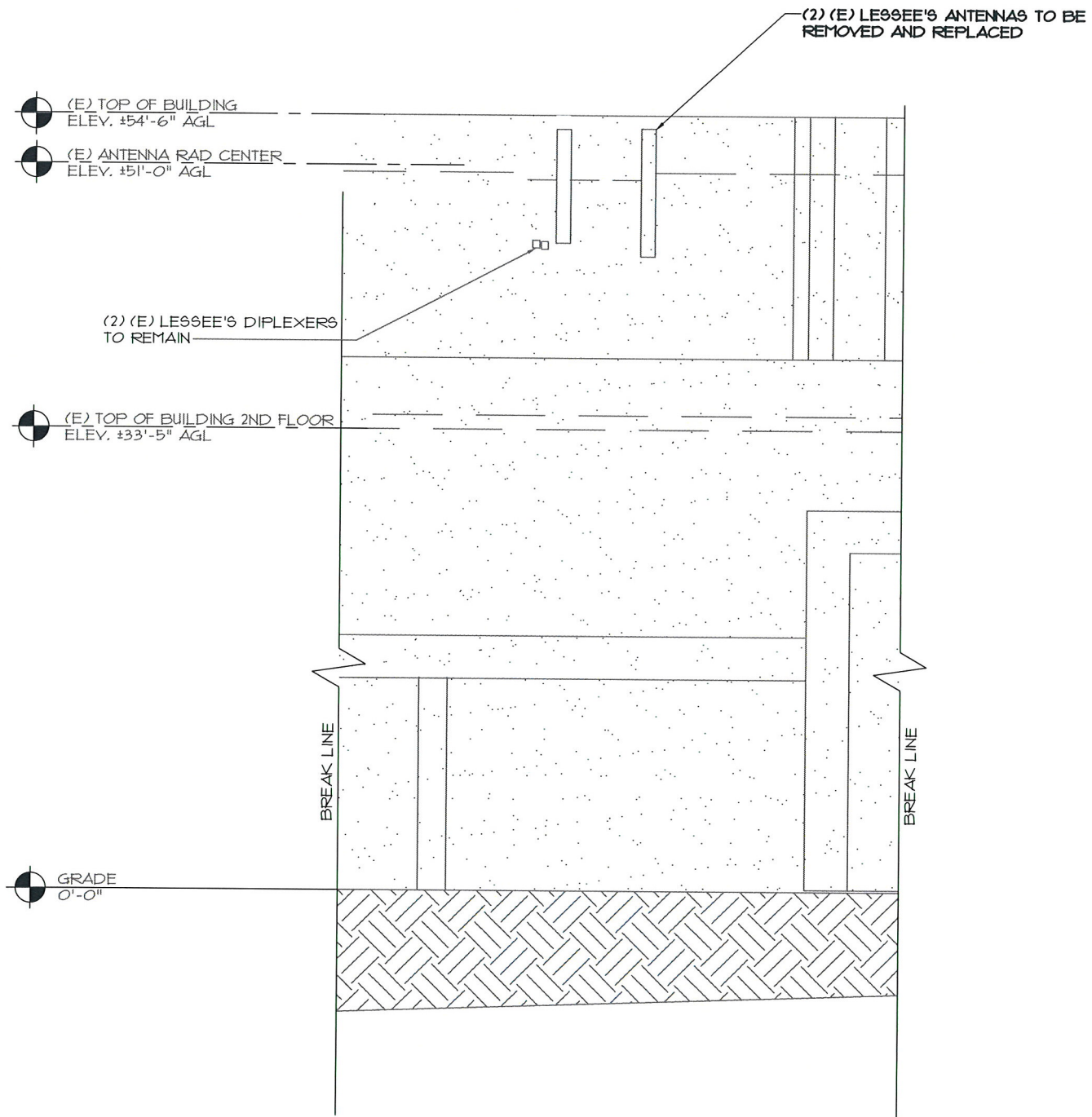
PROJECT NO: T1505460

SHEET NAME
**PROPOSED
UTILITY PLAN**

SHEET NUMBER
C-3

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

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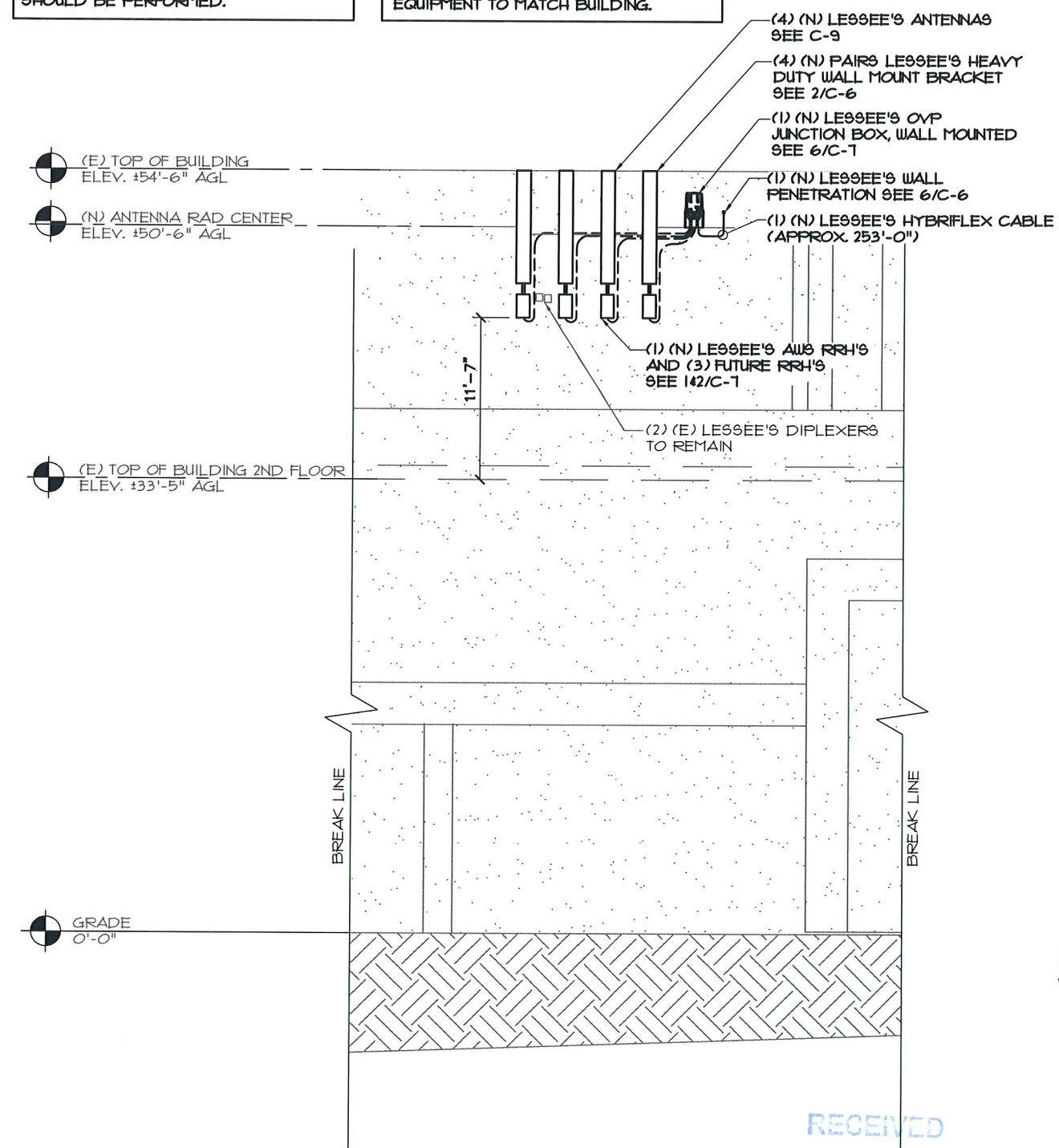
1 ELEVATION - EXISTING (BETA)
SCALE: 3/32" = 1'-0"

STRUCTURAL ANALYSIS NOTE:

W-T'S SCOPE OF WORK DOES NOT INCLUDE A STRUCTURAL EVALUATION OF THIS TOWER OR STRUCTURE. NEW ANTENNAS & EQUIPMENT SHOWN ON THIS PLAN HAVE NOT BEEN EVALUATED TO VERIFY THE TOWER OR STRUCTURE HAS THE CAPACITY TO ADEQUATELY SUPPORT THESE ANTENNAS & EQUIPMENT. PRIOR TO ANY ANTENNA OR EQUIPMENT INSTALLATION, A STRUCTURAL EVALUATION OF THE TOWER OR STRUCTURE, INCLUDING ALL MOUNTING SYSTEMS AND HARDWARE, SHOULD BE PERFORMED.

NOTE:
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NOTE:
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2 ELEVATION - PROPOSED (BETA)
SCALE: 3/32" = 1'-0"

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FIELD - AWS
SITE ID # 20250**
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LAS VEGAS, NV 89101
CLARK COUNTY

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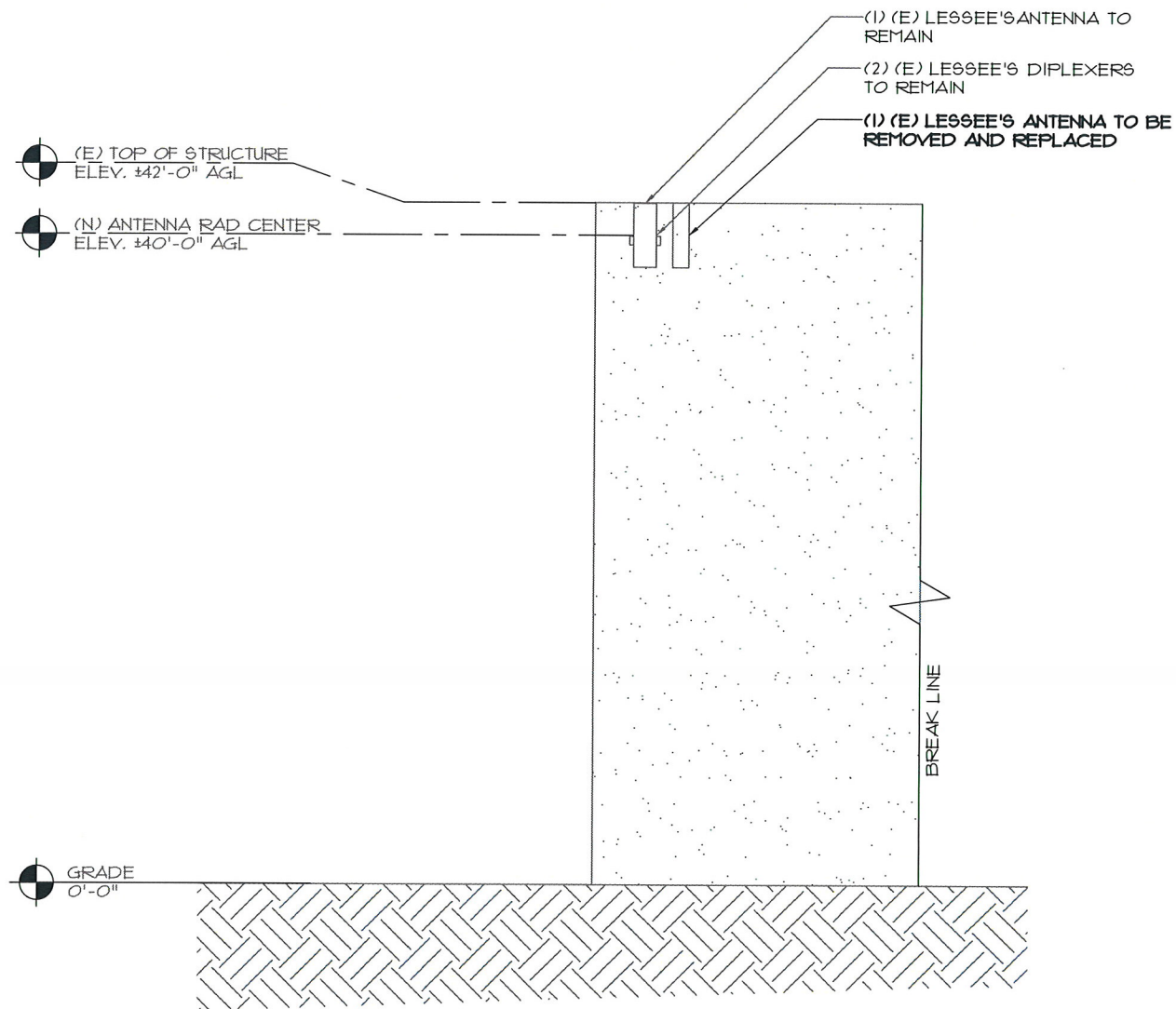
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PROJECT NO:	T1505460
SHEET NAME	TOWER ELEVATION - EXISTING / PROPOSED
SHEET NUMBER	C-4



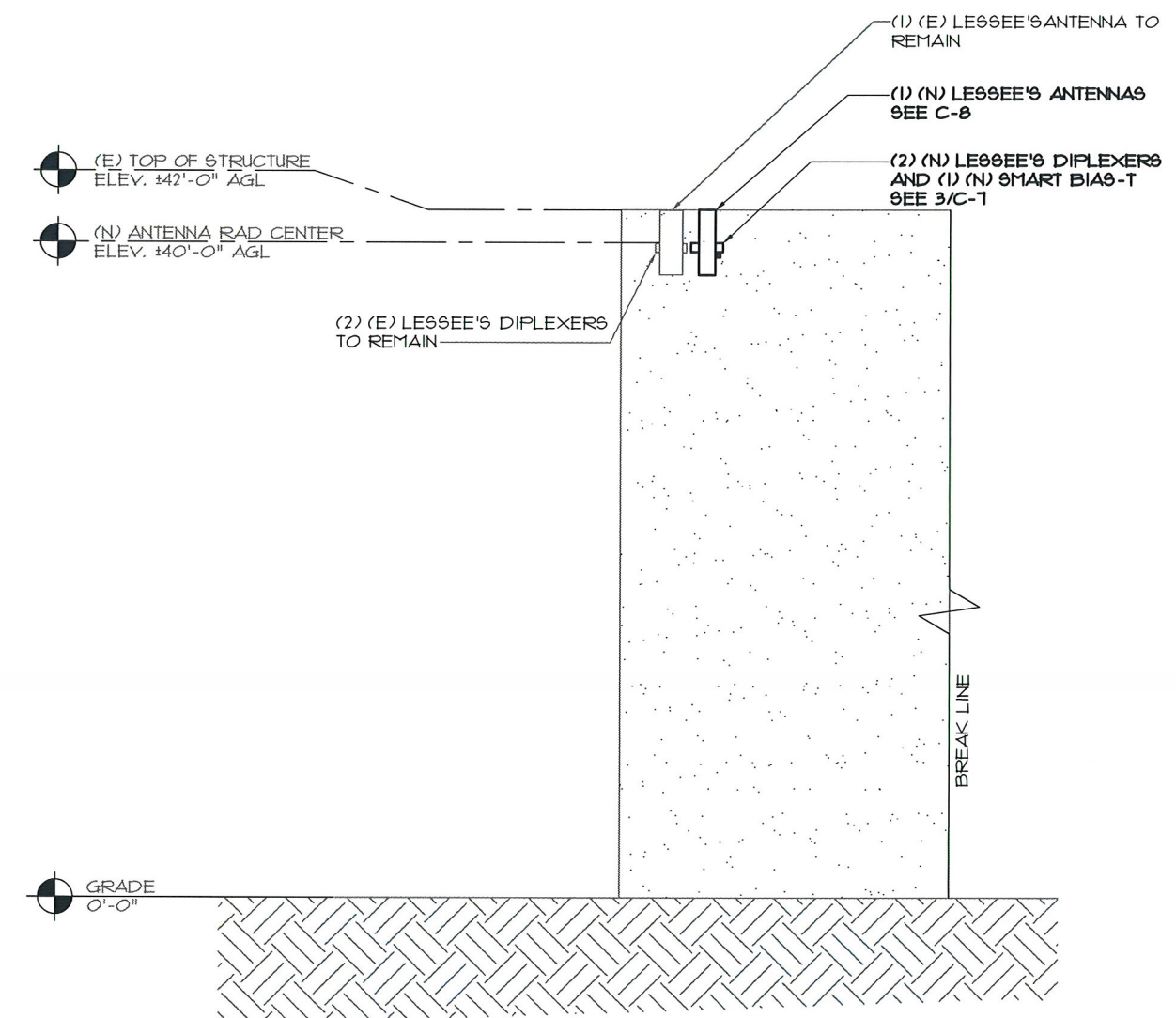
1 **ELEVATION - EXISTING**
(ALPHA SECTOR - INDOOR)
SCALE: $3/32" = 1'-0"$

STRUCTURAL ANALYSIS NOTE:

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2 **ELEVATION - PROPOSED**
(ALPHA SECTOR - INDOOR)
SCALE: $3/32" = 1'-0"$

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CLARK COUNTY

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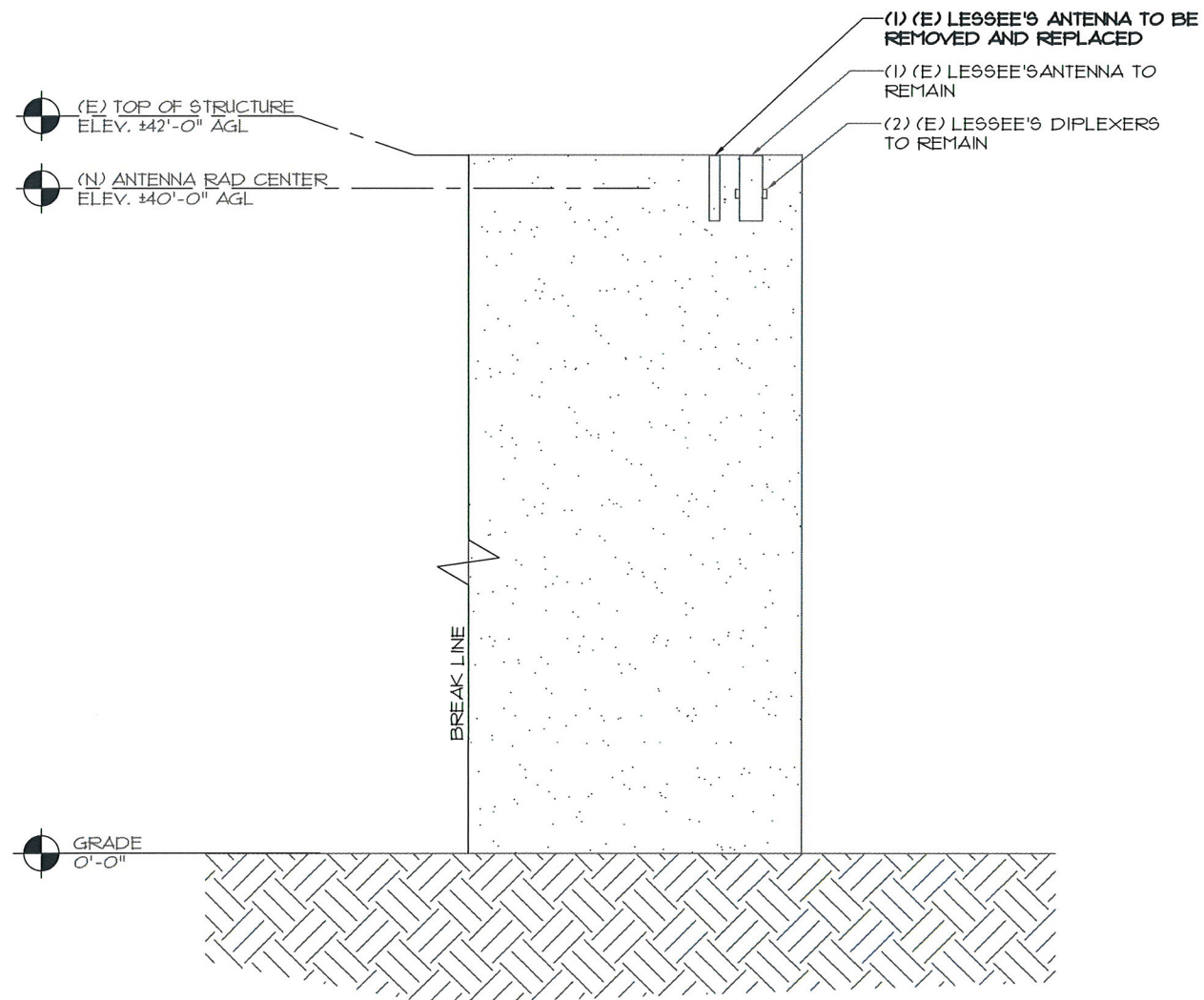
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PROJECT NO: T1505460

SHEET NAME
TOWER ELEVATION -
EXISTING / PROPOSED

SHEET NUMBER
C-4.1



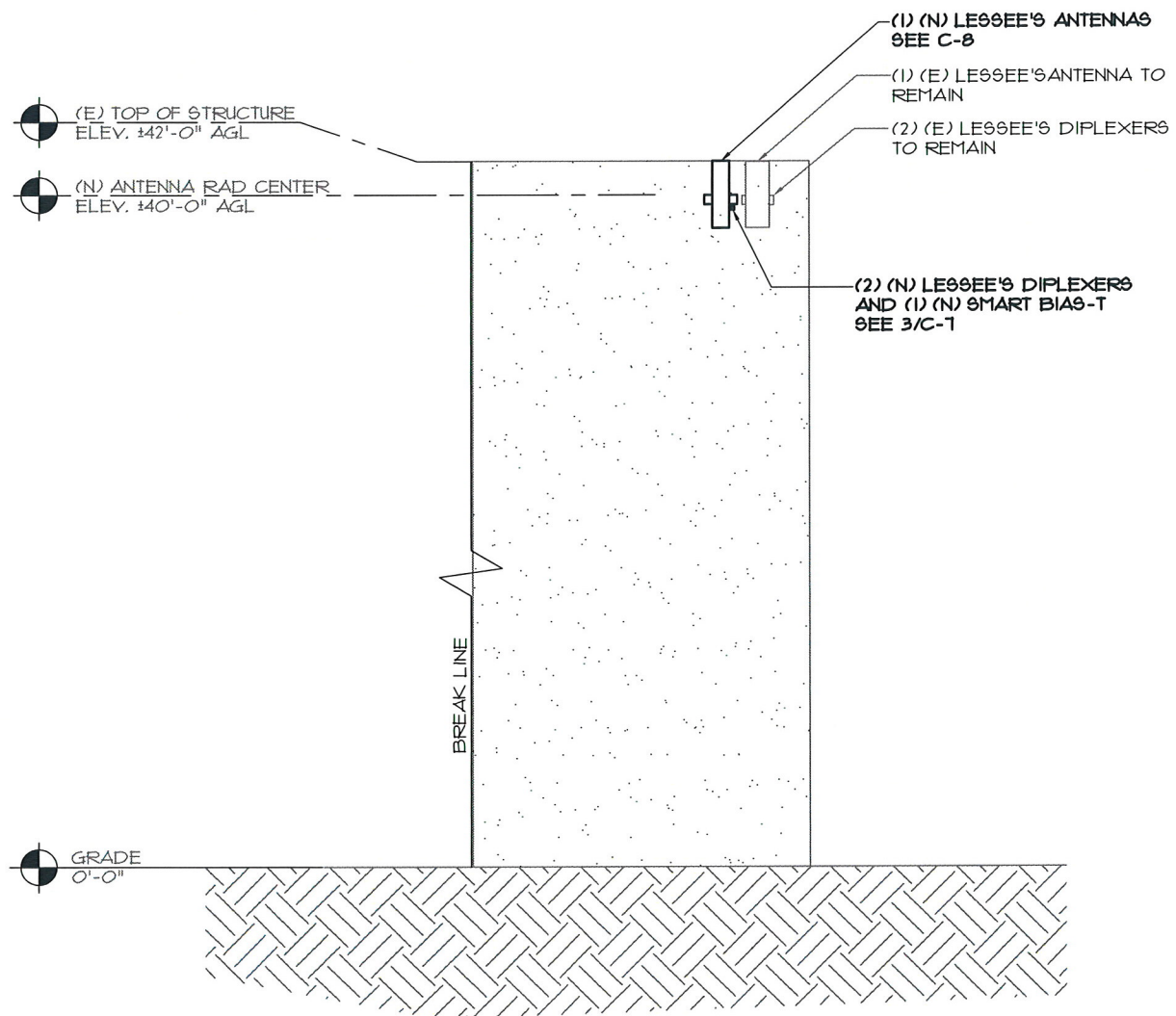
1 **ELEVATION - EXISTING**
(GAMMA SECTOR - INDOOR)
SCALE: 3/32" = 1'-0"

STRUCTURAL ANALYSIS NOTE:

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2 **ELEVATION - PROPOSED**
(GAMMA SECTOR - INDOOR)
SCALE: 3/32" = 1'-0"

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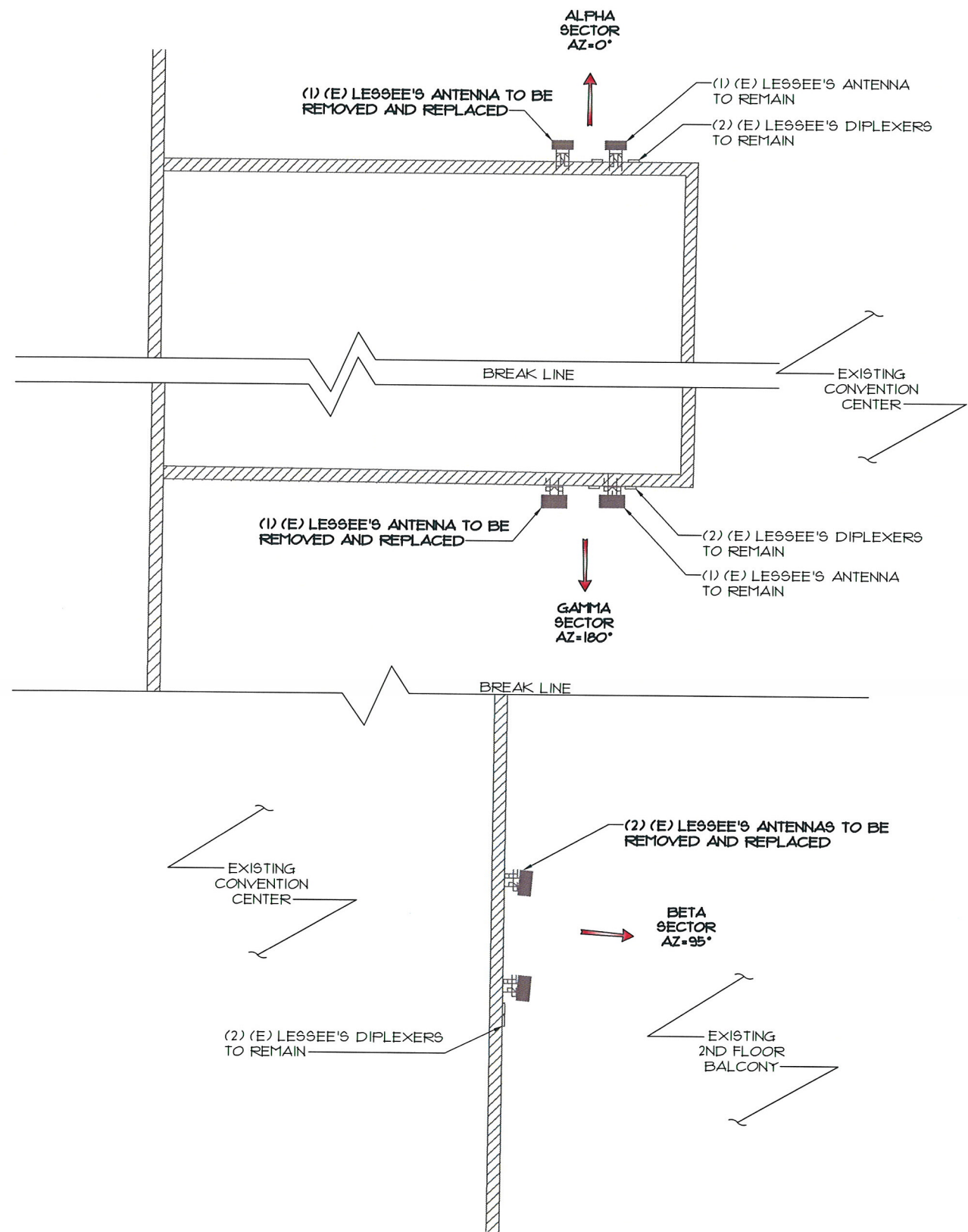
PROJECT NO: T1505460

SHEET NAME

TOWER ELEVATION -
EXISTING / PROPOSED

SHEET NUMBER

C-4.2



1 EXISTING ANTENNA PLAN
SCALE: NONE

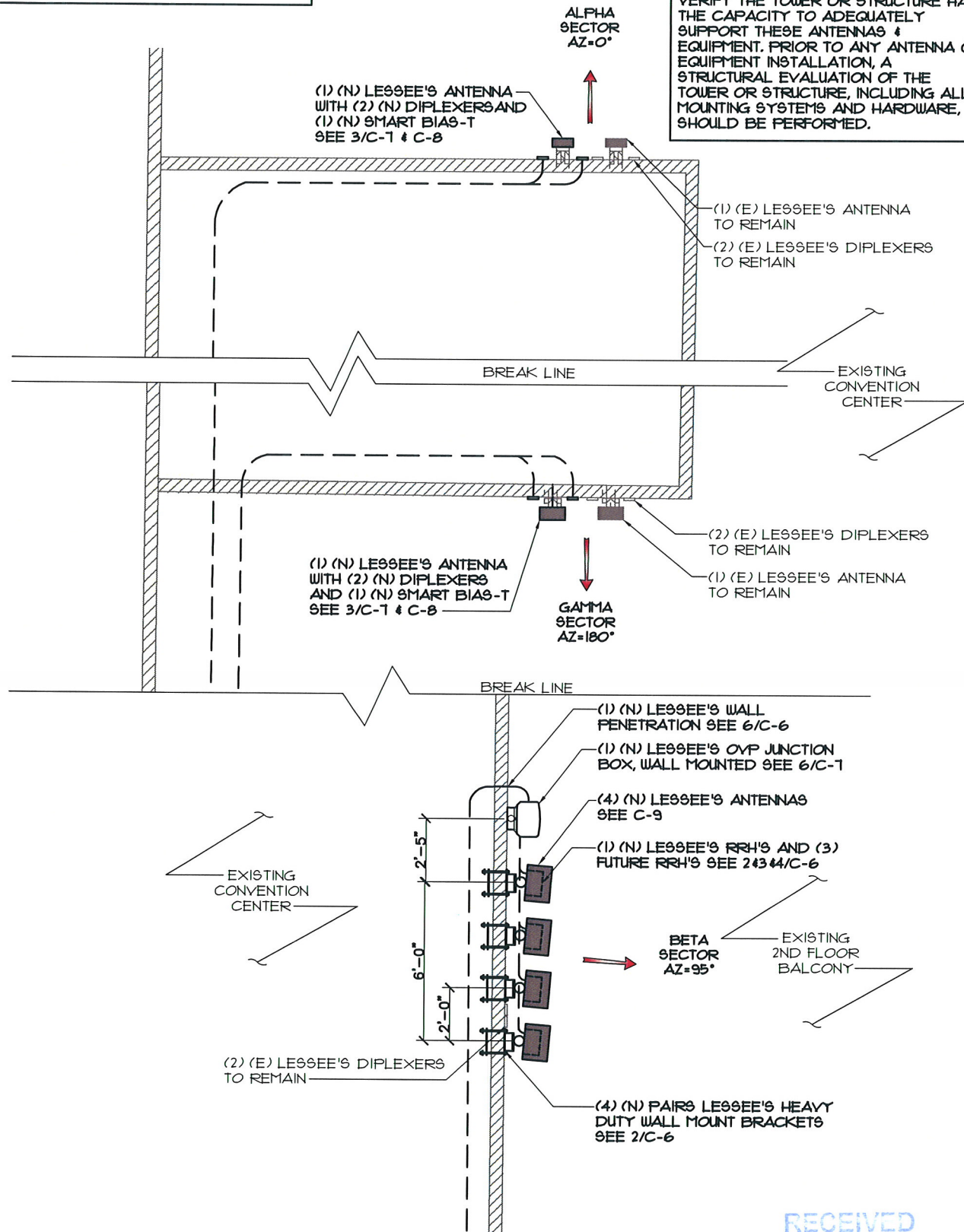


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2 PROPOSED ANTENNA PLAN
SCALE: NONE



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CLARK COUNTY

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DRAWN BY: DYP
APPROVED BY: RJG

**PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250**
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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PROJECT NO: T1505460

SHEET NAME
**ANTENNA PLAN -
EXISTING / PROPOSED**

SHEET NUMBER
C-5

1 NOT USED
SCALE: NONE

2 ANTENNA & RRH
HEAVY DUTY WALL MOUNT
BRACKETS DETAIL
SCALE: NONE

3 ANTENNA MOUNT DETAIL
SCALE: NONE

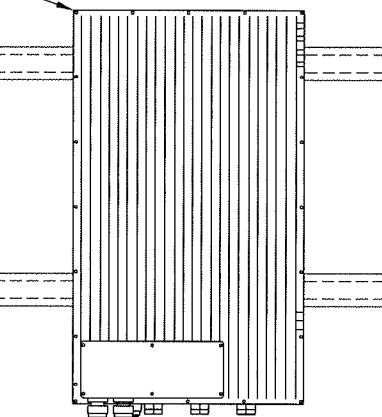
4 RRH MOUNT DETAIL
SCALE: NONE

WALL CONSTRUCTION	USE
CONCRETE BLOCK (HOLLOW)	3/8" HAS THREADED ROD W/ HILTI HIT HY-TO W/ SCREEN, MIN. EMBEDMENT 3 3/8"
CONCRETE (SOLID)	3/8" HAS THREADED ROD W/ HILTI HIT HY-200, MIN. EMBEDMENT 3 3/8"

CONTRACTOR TO FIELD
LOCATE ON CMU WALL
DURING CONSTRUCTION

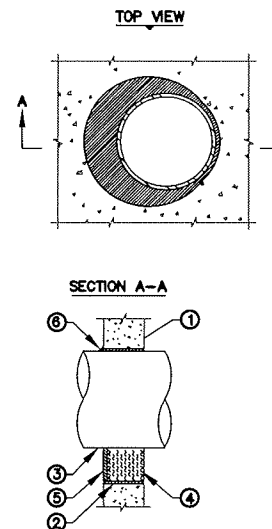
NEW 1 5/8" X 1 5/8"
UNISTRUT TO BE
INSTALLED ON CMU
WALL (TYP OF 2)

NOTE:
ALL UNISTRUT® CHANNEL
SHALL BE GALVANIZED AND
COLD GALVED WHEN CUT.



5 WALL MOUNT DETAIL
SCALE: NONE

U.L. SYSTEM NO. C-AJ-1498
METAL PIPE THROUGH CONCRETE FLOOR, WALL, OR BLOCK WALL



- F RATING = 2-HR.
T RATING = 0-HR.
W RATING = CLASS I
- CONCRETE FLOOR OR WALL ASSEMBLY: (2-HR. FIRE-RATING)
A. LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE FLOOR OR WALL (MINIMUM 4-1/2" THICK).
B. ANY U.L./G.U.L. CLASSIFIED CONCRETE BLOCK WALL.
 - (OPTIONAL) ANY OF THE FOLLOWING STEEL SLEEVES MAY BE USED:
A. MAXIMUM 8" NOMINAL DIAMETER STEEL PIPE SLEEVE (SCHEDULE 10 OR HEAVIER)
B. MAXIMUM 6" (MINIMUM 26 GAUGE) OR 8" (MINIMUM 24 GAUGE) GALVANIZED STEEL SLEEVE WITH SQUARE FLANGE SPOT WELDED TO BOTTOM OR MID-HEIGHT OF SLEEVE AND SIZE MINIMUM 2" LARGER THAN SLEEVE DIAMETER. SLEEVE MAY EXTEND MAXIMUM 1" ABOVE TOP SURFACE OF FLOOR, AND MAXIMUM 4" BELOW BOTTOM SURFACE OF FLOOR.
 - PENETRATING ITEM TO BE ONE OF THE FOLLOWING:
A. MAXIMUM 8" NOMINAL DIAMETER STEEL PIPE (SCHEDULE 10 GAUGE OR HEAVIER)
B. MAXIMUM 8" NOMINAL DIAMETER CAST IRON PIPE.
C. MAXIMUM 4" NOMINAL DIAMETER COPPER PIPE OR TUBING.
D. MAXIMUM 6" NOMINAL DIAMETER STEEL CONDUIT.
E. MAXIMUM 4" NOMINAL DIAMETER EMT.
 - MINIMUM 4" THICKNESS MINERAL WOOL (MINIMUM 4 PCF DENSITY) TIGHTLY PACKED AND RECESSED TO ACCOMMODATE FIRESTOP SEALANT.
 - MINIMUM 1/4" DEPTH HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT.
 - MINIMUM 1/4" BEAD HILTI CP 601S ELASTOMERIC FIRESTOP SEALANT AT POINT OF CONTACT.

NOTE:
IF EXISTING CONSTRUCTION
VARIES FROM THIS DETAIL,
AN EQUAL 2-HOUR U.L.
PENETRATION
APPROPRIATE FOR THE
EXISTING WALL TYPE
SHALL BE CONSTRUCTED

NOTES:
1. USE GROUND PENETRATING RADAR PRIOR TO CORE
DRILLING. NO CUTTING/DAMAGING OF EXISTING
REBAR IS ALLOWED.
2. MAXIMUM DIAMETER OF OPENING = 8".
3. ANNULAR SPACE = MINIMUM 0", MAXIMUM 2".
4. MINIMUM 1/4" DEPTH HILTI CP 601S ELASTOMERIC
FIRESTOP SEALANT IS REQUIRED ON EACH SIDE OF
A WALL ASSEMBLY.

SEE HILTI FIRESTOP INSTALLATION MANUAL FOR
ADDITIONAL INSTRUCTIONS
HILTI, INC. TULSA, OK 1-800-879-8000

6 WALL PENETRATION DETAIL
SCALE: NONE

CLIENT REVISIONS		DATE	REVISION
C	11/12/15		
B	10/28/15		
A	10/21/15		
ISSUED FOR REVIEW			
REVISED FOR REVIEW			
DATE			
NO.			

verizonwireless

475 ROCK QUARRY WAY
NORTH LAS VEGAS, NV 89032
CLARK COUNTY

DATE DRAWN: 10/16/15	DRAWN BY: DYP	APPROVED BY: R/JG
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PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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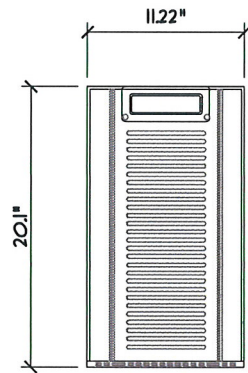
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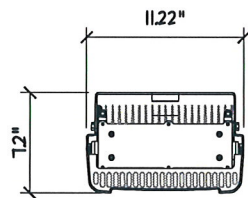
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SDR-62531

PROJECT NO:	T1505460
SHEET NAME	ANTENNA & RRH MOUNTING DETAILS
SHEET NUMBER	C-6

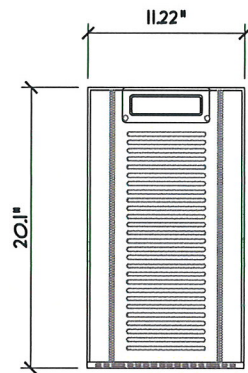


FRONT

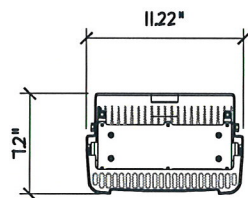


TOP

1 AWS RRH DETAIL
SCALE: NONE



FRONT



TOP

2 PCS RRH DETAIL
SCALE: NONE

GENERAL SPECIFICATION
PRODUCT TYPE:

DIPLEXER/CROSS BAND COUPLER

MOUNTING:

WALL MOUNTING: WITH 4 SCREWS
(MAXIMUM 6MM DIAMETER)
POLE MOUNTING: WITH INCLUDED CLAMP
SET 40-110MM (1.5-4.33 IN.)

APPLICATION:

LTE100, GSM900, UITS, GSM1800, PCS

ENVIRONMENTAL:

ET91 300-019-2-4 CLASS 4.IE

CONNECTORS:

IN-LINE LONG-NECK 7-16-FEMALE

DIMENSIONS

DEPTH:

37 MM, 1.5 IN.

HEIGHT:

147 MM, 5.8 IN.

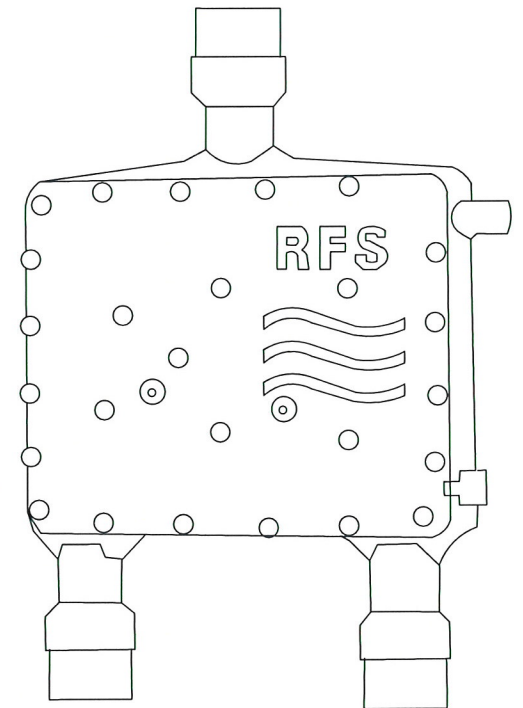
WIDTH:

164 MM, 6.5 IN.

WEIGHT:

12 KG, 2.6 LB.

Mounting Hardware and Ground Cable Ordering Information		
Model Number	Description	
SEM2-1A	Mounting Hardware, Pole mount ø40-110mm (Included with the Single and Dual Diplexer) Wall Screws M6 (Not included with the product)	
SEM2-3	Assembly kit for 2 pcs of FD9R6004/xC-3L (Can be ordered separately but included with the Dual Diplexer Kit)	
CA020-2	Ground Cable, 2m, includes lugs (Optional)	
CA030-2	Ground Cable, 2m, includes lugs (Optional)	
SEM6	Mounting Hardware for 6 Diplexers, Tower Base (Optional)	



3 DIPLEXER DETAIL
SCALE: NONE

CONSTRUCTION MATERIALS
MATERIAL TYPE:

HIGH-IMPACT
POLYCARBONATE,
UV RESISTANT

DIMENSIONS

DEPTH:

290.0 MM, 11.4 IN.

HEIGHT:

252.5 MM, 9.9 IN.

WIDTH:

399.54 MM, 15.73 IN.

WEIGHT:

14.5 KG, 32.0 LB.

ENVIRONMENTAL SPECIFICATION

ENVIRONMENTAL SPACE:

INDOOR, OUTDOOR

QUALIFICATION STANDARDS:

IEC 60529:2001, IP67

GENERAL SPECIFICATION

PRODUCT TYPE:

POLE MOUNT ENCLOSURE,
WALL MOUNT ENCLOSURE
USED AS A FIBER/POWER
JUNCTION BOX
GRAY
MOUNTING KIT
PIPE, 44-114 MM (1.75-4.5 IN) OD,
WALL

APPLICATION:

COLOR:

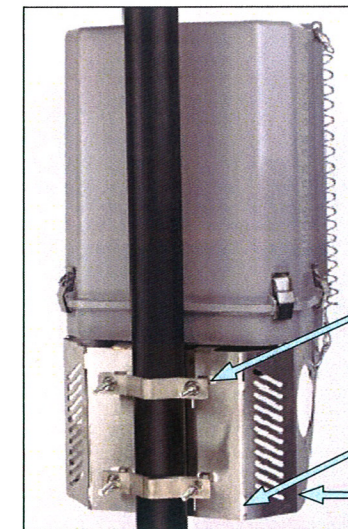
INCLUDES:

MOUNT TYPE:

MECHANICAL SPECIFICATIONS

CABLE ENTRY, QUANTITY,

BOTTOM 5



• Pole Mount
• Unistrut

• Monopole

• Metal mounting frame

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City of Las Vegas

4 NOT USED
SCALE: NONE

5 NOT USED
SCALE: NONE

6 OVP BOX DETAIL
SCALE: NONE

NO.	DATE	REVISION
C	11/12/15	CLIENT REVISIONS
B	10/29/15	REVISED FOR REVIEW
A	10/21/15	ISSUED FOR REVIEW



DATE DRAWN:	10/16/15	DRAWN BY:	DYP	APPROVED BY:	RJG
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PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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WIRELESS INFRASTRUCTURE
8560 S. Eastern Avenue #220
Las Vegas, Nevada 89123
PH: (702) 996-1000 FAX: (702) 996-1010
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SDR-62531

PROJECT NO: T1505460

SHEET NAME

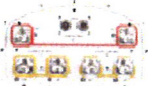
RRH & EQUIPMENT
DETAILS

SHEET NUMBER

C-7

Product Specifications

COMMSCOPE®



SBNHH-1D85A

Andrew® Tri-band Antenna, 698-896 and 2x 1695-2360 MHz, 85° horizontal beamwidth, internal RETs.

- Interleaved dipole technology providing for attractive, low wind load mechanical package
- Three internal RETs for independent tilt on all three bands

Electrical Specifications

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain, dBi	13.0	13.0	15.9	16.6	16.8	17.1
Beamwidth, Horizontal, degrees	84	87	81	79	80	77
Beamwidth, Vertical, degrees	18.9	17.1	7.9	7.3	6.9	6.0
Beam Tilt, degrees	2-18	2-18	1-9	1-9	1-9	1-9
USLS (First Lobe), dB	15	15	14	15	15	14
Isolation, dB	25	25	25	25	25	25
Isolation, Intersystem, dB	30	30	25	25	25	25
VSWR Return Loss, dB	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0	1.5 14.0
PIM, 3rd Order, 2 x 20 W, dBc	-153	-153	-153	-153	-153	-153
Input Power per Port, maximum, watts	350	350	300	300	300	250
Polarization	±45°	±45°	±45°	±45°	±45°	±45°
Impedance	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm

Electrical Specifications, BASTA*

Frequency Band, MHz	698-806	806-896	1695-1880	1850-1990	1920-2200	2300-2360
Gain by all Beam Tilts, average, dBi	12.8	12.8	15.4	16.3	16.5	16.9
Gain by all Beam Tilts Tolerance, dB	±0.2	±0.3	±0.7	±0.3	±0.3	±0.3
	2° 12.9	2° 12.9	1° 15.3	1° 16.2	1° 16.4	1° 16.9
Gain by Beam Tilt, average, dBi	10° 12.8	10° 12.8	5° 15.4	5° 16.3	5° 16.6	5° 17.0
	18° 12.6	18° 12.4	9° 15.4	9° 16.2	9° 16.4	9° 16.7
Beamwidth, Horizontal Tolerance, degrees	±2.3	±1.9	±3.9	±3.3	±4.4	±3.5
Beamwidth, Vertical Tolerance, degrees	±1.1	±1.2	±0.4	±0.3	±0.5	±0.2
USLS, beampeak to 20° above beampeak, dB	16	17	14	16	16	14
Front-to-Back Total Power at 100° ± 30°, dB	22	22	26	27	26	25
CPR at Boresight, dB	20	19	17	17	18	20
CPR at Sector, dB	15	11	10	11	9	7

* CommScope® supports NGMN recommendations on Base Station Antenna Standards (BASTA). To learn more about the benefits of BASTA, download the whitepaper Time to Raise the Bar on BSAs.

General Specifications

Antenna Brand	Andrew®
Antenna Type	DualPol® multiband
Band	Multiband
Brand	DualPol®
Operating Frequency Band	1695 - 2360 MHz 698 - 896 MHz
Performance Note	Outdoor usage

Mechanical Specifications

Color	Light gray
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page 1 of 3
November 4, 2015

1 COMMSCOPE SBNHH-1D85A
SCALE: NONE

Product Specifications

COMMSCOPE®



SBNHH-1D85A

Lightning Protection	dc Ground
Radiator Material	Aluminum Low loss circuit board
Radome Material	Fiberglass, UV resistant
Reflector Material	Aluminum
RF Connector Interface	7-16 DIN Female
RF Connector Location	Bottom
RF Connector Quantity, total	6
Wind Loading, maximum	375.0 N @ 150 km/h 84.3 lbf @ 150 km/h
Wind Speed, maximum	241 km/h 150 mph

Dimensions

Depth	181.0 mm 7.1 in
Length	1219.0 mm 48.0 in
Width	301.0 mm 11.9 in
Net Weight	14.4 kg 31.7 lb

Remote Electrical Tilt (RET) Information

Input Voltage	10-30 Vdc
Power Consumption, idle state, maximum	2.0 W
Power Consumption, normal conditions, maximum	13.0 W
Protocol	3GPP/AISG 2.0 (Multi-RET)
RET Interface	8-pin DIN Female 8-pin DIN Male
RET Interface, quantity	1 female 1 male
RET System	Teletilt®

Packed Dimensions

Depth	299.0 mm 11.8 in
Length	1339.0 mm 52.7 in
Width	409.0 mm 16.1 in
Shipping Weight	24.8 kg 54.7 lb

Regulatory Compliance/Certifications

Agency	Classification
RoHS 2011/65/EU	Compliant by Exemption
China RoHS SJ/T 11364-2006	Above Maximum Concentration Value (MCV)
ISO 9001:2008	Designed, manufactured and/or distributed under this quality management system



Included Products

BSAMNT-1 — Wide Profile Antenna Downtilt Mounting Kit for 2.4 - 4.5 in (60 - 115 mm) OD round members. Kit contains one scissor top bracket set and one bottom bracket set.

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City of Las Vegas

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR PULLING THE MOST CURRENT RFDS WITHIN 24 HOURS OF CONSTRUCTION AND VERIFYING FINAL RF CONFIGURATION AND NOTIFY CARRIER AND ENGINEERING FIRM WITH ANY DISCREPANCIES.

SDR-62531

PROJECT NO: T1505460

SHEET NAME

ANTENNA DETAILS

SHEET NUMBER

C-8

PCS UPGRADE
LSV CASHMAN
FIELD - AWS
SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

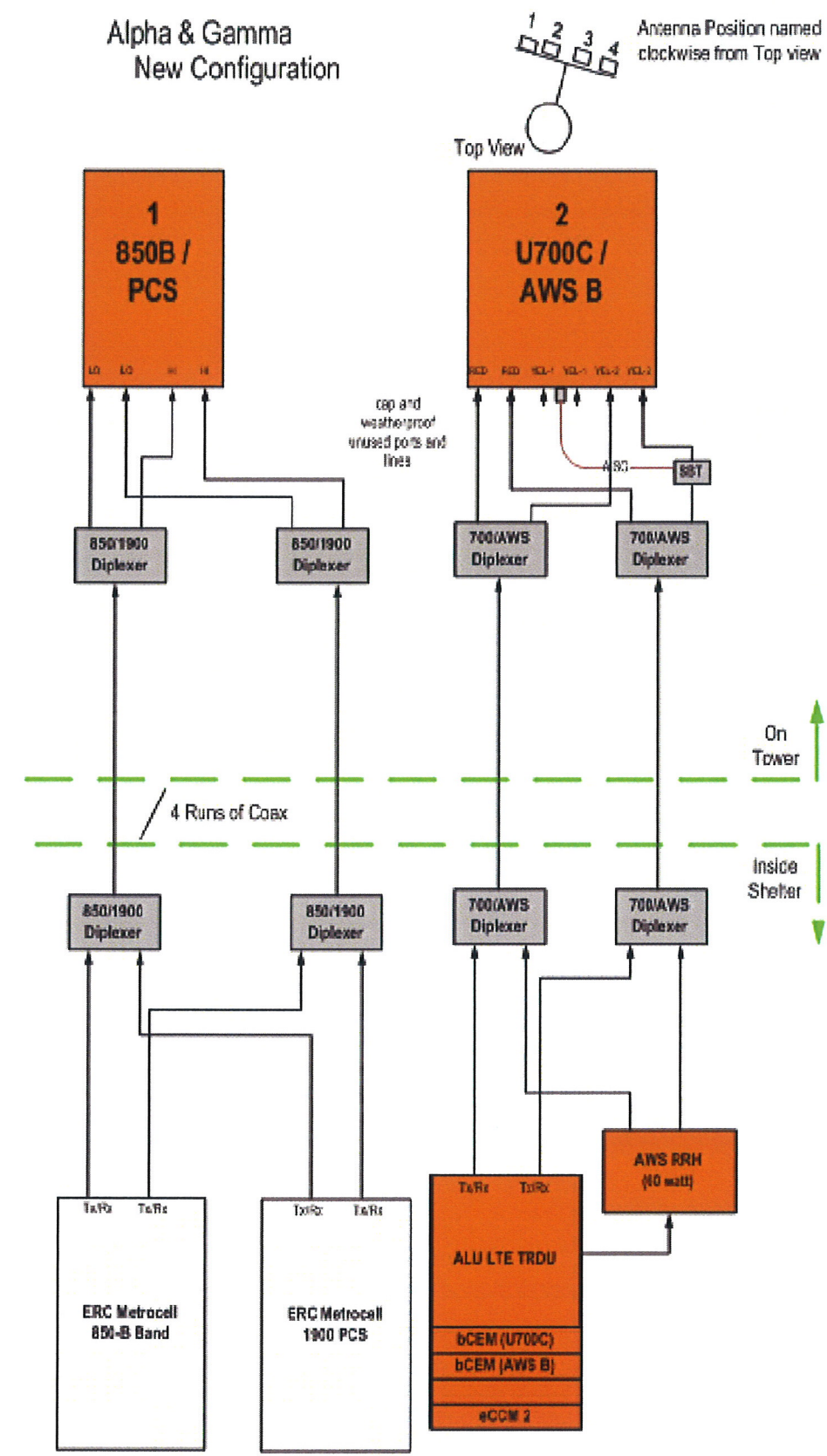
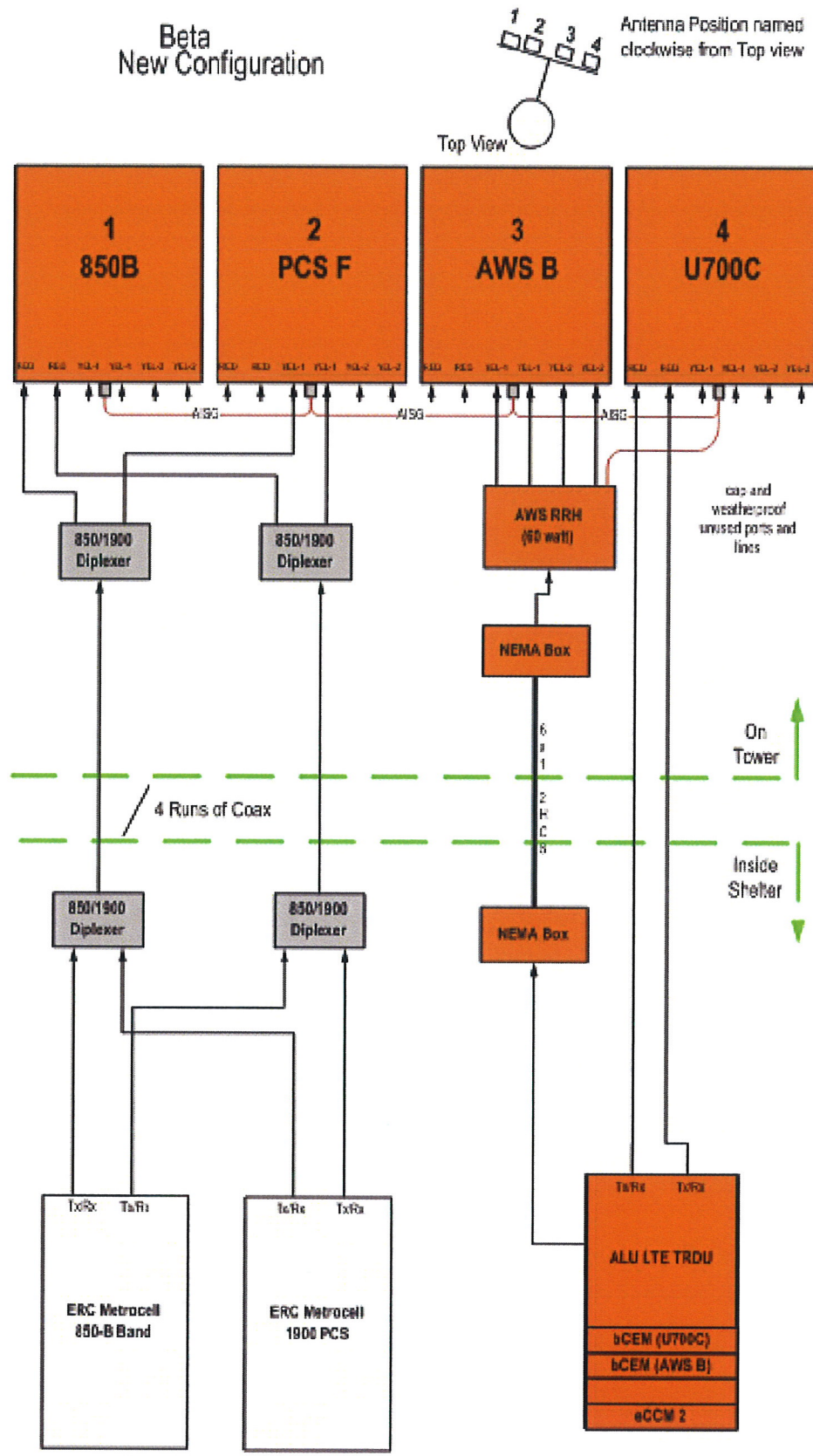
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B	10/28/15
A	10/21/15
NO.	DATE



1 COAX ANTENNA DIAGRAM
SCALE: NONE

NOTE:
CONTRACTOR SHALL BE RESPONSIBLE FOR FILLING THE MOST
CURRENT RFD'S WITHIN 24 HOURS OF CONSTRUCTION AND
VERIFYING FINAL RF CONFIGURATION AND NOTIFY CARRIER AND
ENGINEERING FIRM WITH ANY DISCREPANCIES.

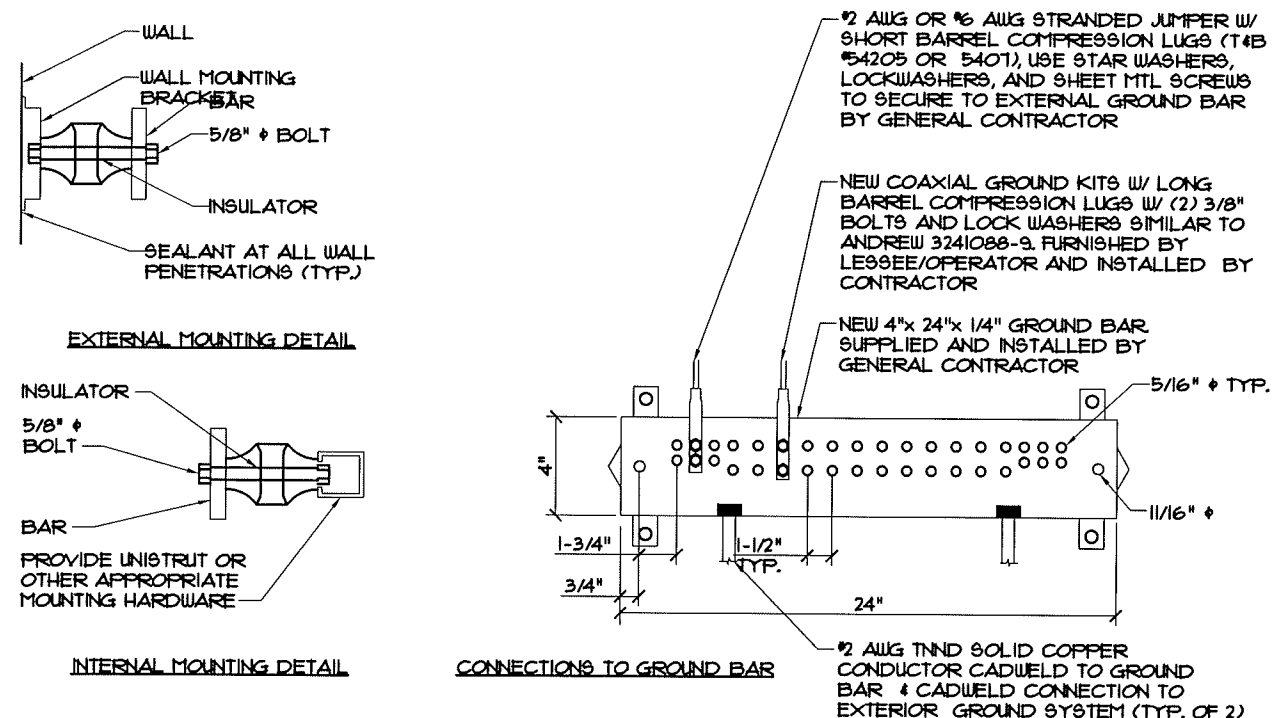
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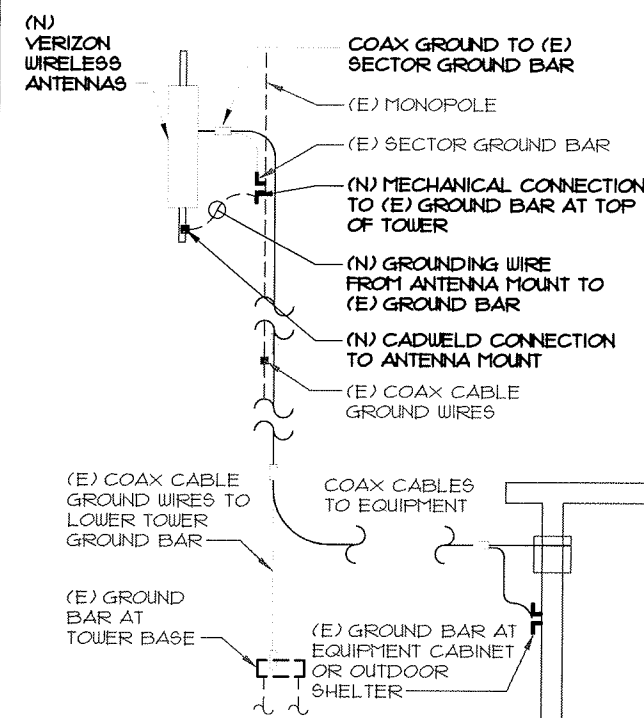
DATE DRAWN: 10/16/15		DRAWN BY: DYP		APPROVED BY: RJG	
PCS UPGRADE LSV CASHMAN FIELD - AWS SITE ID # 20250 850 N. LAS VEGAS BLVD. LAS VEGAS, NV 89101 CLARK COUNTY					
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PROJECT NO: T1505460 SHEET NAME ANTENNA CABLE DIAGRAM SHEET NUMBER C-10					



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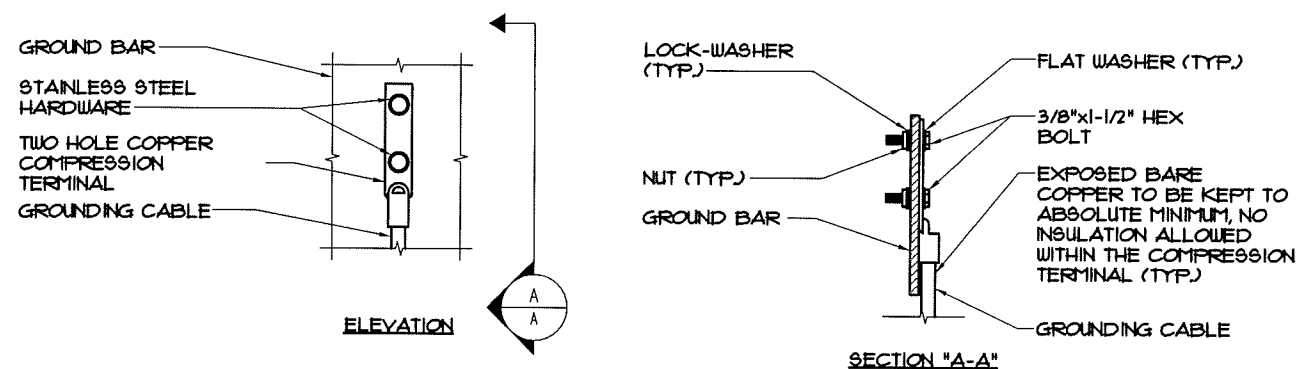


1 GROUND BAR
SCALE: NONE



2 ANTENNA GROUNDING DIAGRAM
SCALE: NONE

3 NOT USED
SCALE: NONE



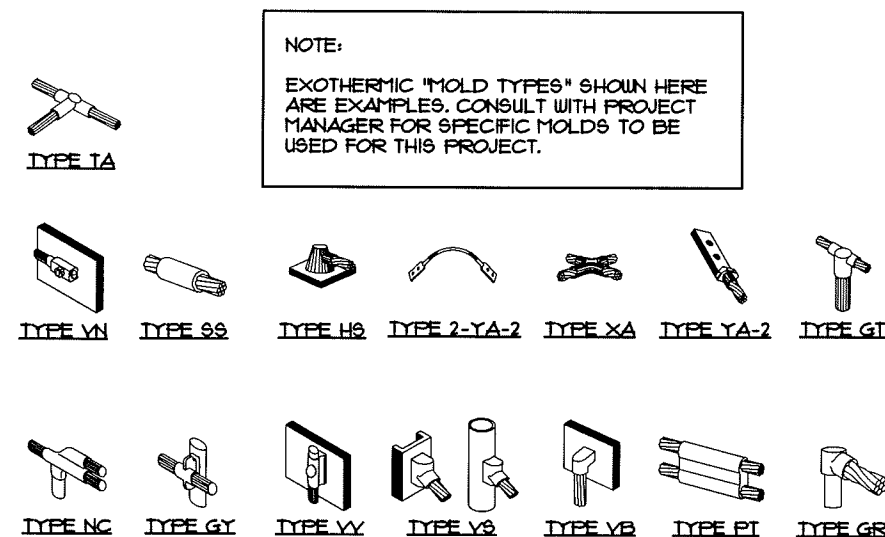
NOTES:

- "DOUBLING UP" OR "STACKING" OF CONNECTION IS NOT PERMITTED.
- OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.

NOTE:

ALL SOLID WIRE SHALL BE CADWELDED TYPE CONNECTION UNLESS OTHERWISE NOTED

4 TYPICAL GROUND BAR CONNECTION DETAILS
SCALE: NONE



5 TYPICAL EXOTHERMIC WELD DETAILS
SCALE: NONE

NO.	DATE	ISSUED FOR REVIEW	REVISED FOR REVIEW	CLIENT REVISIONS
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B	10/28/15			
A	10/21/15			



DATE DRAWN:	10/16/15
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APPROVED BY:	RJG

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LSV CASHMAN
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SITE ID # 20250
850 N. LAS VEGAS BLVD.
LAS VEGAS, NV 89101
CLARK COUNTY

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PROJECT NO: T1505460

SHEET NAME

GROUNDING DETAILS

SHEET NUMBER

G-1