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AGENDA REPORT

TO: DEANNA J. SANTANA
CITY ADMINISTRATOR

FROM: Fred Blackwell

SUBJECT: Coliseum Authority Wireless
Agreements

DATE: June 7, 2013

City Administrator
Approval

Deanna Santana

Date

6/18/13

COUNCIL DISTRICT: #7

RECOMMENDATION

Staff recommends that the City Council adopt:

A City of Oakland Resolution:

1. Approving and Authorizing the Execution of a License Agreement Between Sprint Spectrum L.P. ("Sprint/Nextel") and the Oakland Alameda County Coliseum Authority and certain related matters; and
2. Authorizing the City Administrator to Consent to a Wireless Sublease Agreement Between AT & T, Verizon, and Sprint, Using Existing Wireless Facilities at the Oakland Alameda County Coliseum Complex, Under the Terms of the Existing License Agreement between AT & T and the Oakland Alameda County Coliseum Authority

OUTCOME

Adoption of this resolution will authorize the City Administrator to execute two documents on behalf of the City of Oakland, in conjunction with parallel approvals from the County of Alameda, to allow the Oakland Alameda County Coliseum Authority ("Authority") to enter into a new wireless license agreement with Sprint/Nextel, and to assent to a wireless sublease agreement including AT T, Verizon, and Sprint/Nextel, respectively.

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BACKGROUND/LEGISLATIVE HISTORY

On October 28, 2010 and April 26, 2011, the Authority approved License Agreements with AT&T for the installation, use and operation of wireless facilities at the O.Co Coliseum and the Oracle Arena.

In letters dated May 20, 2013, AT&T asked that the City of Oakland and Alameda County, respectively, provide their written assent to AT&T's request to enter sublease agreements with Verizon and Sprint/Nextel, to allow those companies to also use the existing wireless infrastructure at the O.Co Coliseum and the Oracle Arena. In its letter to the City, AT&T notes that its existing agreement with the Authority states that AT&T as the current Licensee "will have the right to assign this Agreement or sublicense the Premises and any of its rights herein, in whole or in part, with the consent of the Licensor, which consent shall not be unreasonably delayed or withheld and the consent of the City and County, not to be unreasonably withheld, conditioned, or delayed."

In addition, the Authority proposes to enter a new direct license agreement with Sprint/Nextel for that company to install and operate wireless equipment, and to connect any new equipment to the existing wireless infrastructure at the O.Co Coliseum and the Oracle Arena, and is seeking City and County assent to do so.

The terms of the Management Agreement for the Oakland Alameda County Coliseum Complex require separate City of Oakland and Alameda County approval of all license agreements pertaining to the Coliseum Complex.

ANALYSIS

Attachment A to this staff report is the proposed new license agreement between the Authority and Sprint/Nextel. In exchange for Authority approval, Sprint/Nextel would remit to the Authority \$50,000 as a one-time license fee, and would thereafter remit \$32,408 per year as an annual license fee. Subsequent annual payments would be adjusted upwards by 3% each year, as defined on page 3 of *Attachment A*.

The City of Oakland and the County of Alameda are also respectively requested, in the letters included with this report as *Attachment B*, to confer their approvals to a sublease agreement between AT&T, Sprint/Nextel, and Verizon, under which the latter two carriers would gain access to the existing wireless equipment and infrastructure at the O.Co Coliseum and the Oracle Arena. The Authority would receive no additional compensation for assenting to these subleases. The original wireless license agreement with AT&T at the Coliseum Complex contemplated this kind of sublease; in the wireless industry, it is common for carriers to utilize shared infrastructure for their respective individual business operations.

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COORDINATION

Staff from the City Administrator's Budget Office and the Office of the City Attorney have reviewed this report.

COST SUMMARY/IMPLICATIONS


There is no direct cost to the City of Oakland from the adoption of this resolution. One-time and annual license fees from the proposed new license agreement with Sprint/Nextel, and ongoing revenues generated from the original AT & T licensing agreement, are applied to the Authority's annual operating expenses, thereby reducing any cost to the City of Oakland to fund its share of the Authority's operating costs.

SUSTAINABLE OPPORTUNITIES

There are no sustainable opportunities which have been identified from this action.

For questions regarding this report, please contact James A. Bondi, City Administrator Analyst, at (510) 238-6654.

Respectfully submitted,



Fred Blackweli, Assistant City Administrator

Prepared by:
James A. Bondi, City Administrator Analyst
Office of the City Administrator

Attachment A: Proposed new wireless license agreement with Sprint/Nextel
Attachment B: Proposed letters of City and County assent to the sublease agreement between AT&T, Sprint/Nextel, and Verizon

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LICENSE AGREEMENT

Site Name: Oakland Coliseum and Arena

Site ID #: SF96xc003 & SF96xc004

This License Agreement ("Agreement") is entered into as of _____ by Sprint Spectrum L.P. ("Sprint/Nextel" or "Licensee") and Oakland-Alameda County Coliseum Authority, a California joint powers authority organized and existing under applicable provisions of the California Government Code and an Amended and Restated Joint Exercise of Powers Agreement, dated December 17, 1996, by and between the County of Alameda (the "County") and the City of Oakland (the "City"), having a mailing address of 7000 Coliseum Way, Oakland, CA 94621-1918 ("Licensor").

A. WHEREAS, pursuant to an Amended and Restated Management Agreement entered into in March 2000 (the "Management Agreement"), Licensor operates and manages that certain plot, parcel, or tract of land, improved with one or more structures (collectively, the "Structure"), together with all rights and privileges arising in connection therewith, located at 7000 Coliseum Way, City of Oakland, in the County of Alameda, State of California, and commonly known as the Oakland-Alameda County Coliseum (collectively, the "Licensor's Property" or "Property") as more particularly described on Exhibit A attached hereto; and

B. WHEREAS this Agreement is intended to relate only to Licensee's installation, operation and maintenance of certain Facilities (defined below) on the Stadium Parcel (defined below) that will connect to and operate in conjunction with the two existing Distributed Antenna System or DAS (as defined below) owned, operated, and maintained by New Cingular Wireless PCS, LLC ("AT&T") on the outdoor stadium parcel ("Stadium Parcel") at APN: 041-3901-008 ("Stadium Parcel") and indoor within adjacent Arena located on the arena parcel at APN: 041-3901-009 ("Arena Parcel").

C. WHEREAS the Property is jointly owned in fee by the City and the County, and their approval of this Agreement is required pursuant to the terms of the Management Agreement; and

D. WHEREAS Licensor's management agent, AEG Management Oakland, LLC, a Delaware limited liability company ("AEG"), manages and operates many of the day-to-day business and game-day operations at the Property on behalf of Licensor; and

E. WHEREAS Licensee acknowledges that Licensor has delegated to AEG many of Licensor's rights and powers of day-to-day enforcement of access and other restrictions under the Management Agreement; and

F. WHEREAS Licensee, and those of its sublicensees, as applicable, desire to use a portion of the Property in connection with its federally licensed wireless communications business, and Licensor desires to grant to Licensee the right to use a portion of the Property in accordance with this Agreement, provided that in no event does Licensor intend to grant a leasehold interest, an easement or any other interest in real estate to Licensee.

The parties agree as follows:

1. Premises and Use. Licensor owns the property described on Exhibit A attached ("Licensor's Property" or "Property"). Licensor licenses to Licensee the Site (consisting of a portion of Licensor's Property on the Stadium Parcel) described below [*Check all appropriate boxes*]:

- Land consisting of approximately 363 square feet for construction of:
- shelters and/or base station equipment and
- antenna support structure;

- Building interior space consisting of approximately _____ square feet for placement of shelters and/or base station equipment;
- Building exterior space consisting of approximately _____ square feet for placement of shelters and/or base station equipment;
- Building exterior space for attachment of antennas;
- Tower space between the _____ foot and _____ foot level on the tower for attachment of antennas;

generally in the location(s) shown on Exhibit B attached, such location(s) to be pre-approved by AEG in its sole discretion, as well as riser, conduit and other space required for cable runs to connect its equipment and antennas, and together with all necessary non-exclusive easements, limited as set forth in Section 4 hereof, for vehicular and pedestrian access thereto, for placement of an underground grounding system, and for access to the appropriate source of electric, telephone and other utilities, in the reasonable discretion of Licensee (the "Site"). Licensor agrees to cooperate with Licensee in its efforts to obtain such approval of AEG. The Site may be used by Licensee (and/or any of its affiliated entities) for the purpose of installing, removing, replacing, modifying, maintaining and operating, at its expense, communications service facilities, including, without limitation, equipment shelter, base station equipment, cable, wiring, power sources (including permanent generators and fuel storage tanks), related equipment and structures and, if applicable to the Site, an antenna support structure (the "Facilities"). All of the Facilities will remain Licensee's personal property and are not fixtures. The Facilities are to be installed to provide for the continuous transmission and reception of wireless communications signals via two Distributed Antenna Systems, or "DAS" owned, operated and maintained by AT&T. The installation, operation and maintenance of the two DAS systems is governed by two separate agreements between Licensor and AT&T, which agreements shall be in effect and observed by Licensee, to the extent such agreements apply to Licensee, during the term of this Agreement. Generally, the two DAS systems contemplated by the parties under this Agreement are networks of spatially separated antenna nodes connected to a common source via a transport medium that provides wireless service within a localized geographic area or structure. Licensee has the right but not the obligation to add, modify and/or replace equipment comprising the Facilities or the DAS systems in order for the Facilities to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services. Notwithstanding the foregoing, by specific agreement between the parties, any changes, additions or modifications to the Facilities Licensee uses to connect to the two DAS systems, shall not require the prior approval of Licensor; provided, however, that within sixty (60) days following the completion of such change, addition, and or modification, and Licensee's receipt of Licensor's request, Licensee shall provide to Licensor a set of plans reflecting the changes, additions or modifications within the Facilities. Licensee will be allowed to make such reasonable alterations to the Property in order to accomplish Licensee's Permitted Use, including ensuring that Licensee's Facilities comply with all applicable federal state or local laws, rules or regulations. Licensor acknowledges that Licensee is entering into a separate agreement with AT&T to provide for Licensee's connection to and use of AT&T's two DAS systems located at the Stadium Parcel and the Arena Parcel, respectively. It is expressly understood that all rights granted to Licensee under this Agreement are irrevocable until this Agreement expires or sooner terminates as provided herein.

LICENSOR AND LICENSEE HEREBY ACKNOWLEDGE AND AGREE THAT NOTHING IN THIS AGREEMENT IS INTENDED TO CREATE A LEASEHOLD INTEREST, EASEMENT OR OTHER INTEREST IN REAL ESTATE.

2. Term.

(a) The initial license term will be five (5) years ("Initial Term"), commencing on License Fee Commencement Date (as that term is defined below) ("Term Commencement Date"). The Term will be automatically renewed for four (4) additional terms of five (5) years each (each a "Renewal Term"), upon the same terms and conditions, unless Licensee provides Licensor with at least sixty (60) days written notice of its intention not to renew prior to the expiration of the initial Term or any Renewal Term. Prior to the installation of Licensee's Facilities, Licensee will be permitted to enter Licensor's Property, subject to the access limitations set forth in Section 4 hereof, to perform surveys, inspections,

investigations and tests, including, without limitation, signal, topographical, geotechnical, structural and environmental tests, in Licensee's reasonable discretion to determine the physical condition, suitability and feasibility of the Site. Licensor acknowledges that, prior to the Term Commencement Date, Licensee has limited access to, but no control of, any portion of Licensor's Property and that Licensee's access during the Due Diligence Period shall not cause Licensee to be considered an operator of Licensor's Property or the Site for purposes of environmental laws or otherwise.

(b) Notwithstanding the foregoing, either party may provide the other prior written notice at least sixty (60) days prior to the end of the fourth (4th) Renewal Term of such party's desire that the term of this Agreement shall end at the expiration of the fourth (4th) Renewal Term. If neither party provides the other with such notice, then following the fourth (4th) Renewal Term, this Agreement shall continue in full force upon the same covenants, terms and conditions for a further term of one (1) year, and for not more than four (4) annual terms thereafter (each an ("Annual Term")), until terminated by either party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of any such Annual Term. The License Fee during each such Annual Term shall continue to increase by Three Percent (3%) annually as described in Section 3(c), hereof. If Licensee remains in possession of the Facilities after the termination of this Agreement, then Licensee will be deemed to be a holdover Licensee occupying the Facilities on a holdover month-to-month basis (the "Holdover Term"), subject to the terms and conditions of this Agreement; provided that the License Fee shall be equal to One Hundred Twenty-Five Percent (125%) of the License Fee in effect during the last year of the Annual Term prior to termination of this Agreement and shall increase by an additional Ten Percent (10%) on each annual anniversary date of the termination of this Agreement.

(c) The Initial Term, any Renewal Terms, any Annual Terms and any permitted Holdover Term not objected to by Licensor are collectively referred to as the Term ("Term").

3. License Fee.

(a) Commencing on the earlier to occur of: (a) the first (1st) day of the month following Licensee's commencement of installation of Licensee's Facilities or January 1, 2014 ("License Fee Commencement Date"), Licensee will pay a total annual license fee of Thirty Two Thousand Four Hundred Eight and 00/100 Dollars (\$32,408.00) ("License Fee"), to be paid annually, in advance, partial years to be pro-rated, to Oakland-Alameda County Coliseum Authority, or to such other person, firm or place as Licensor may, from time-to-time, designate in writing at least thirty (30) days in advance of any payment date by written notice. Notwithstanding anything contained in this Section, Licensee's obligation to remit the License Fee may be suspended at Licensee's discretion until Licensee's receipt of an IRS approved W-9 form setting forth the tax identification number of Licensor or of the person or entity to whom rent checks are to be made payable as directed in writing by Licensor. The License Fee will be sent to the address shown in the Notice Section (Section 6) of this Agreement. Additionally, Licensee shall pay to Licensor, within thirty (30) days after Licensee's receipt of a fully executed written acknowledgement confirming the License Fee Commencement Date, a one time lump sum additional fee of Fifty Thousand Dollars (\$50,000.00) to help defray the costs and expenses incurred by Licensor in conjunction with, *inter alia*, the legal review and negotiation of this Agreement as well as the professional review and approval of Licensee's plans and specifications attached as Exhibit B hereto.

(b) In the event that any installment of Licensee Fee is not paid to Licensor within fifteen (15) business days after the date of such License Fee is due, a late charge of Ten Percent (10%) shall automatically be imposed upon the past due installment. Licensor and Licensee acknowledge and agree that the imposition of such a late charge is reasonable and practical, and shall not be deemed to constitute a penalty.

(c) On each anniversary of the License Fee Commencement Date, the annual License Fee will increase by Three Percent (3%) over the License Fee paid during the previous year of the Term.

(d) Notwithstanding Licensee's covenant to pay the Licensee Fee provided in Section 3(a) of this Agreement, and superseding any other provision of this Agreement to the contrary, in the event that the Oakland Raiders no longer use the Property as its principal home field location for playing regular season and post-season professional football games, and the Oakland A's no longer use the Property as its

principal home field location for playing regular season and post-season professional baseball games, then on the first day of the month following the date that the later of said two (2) professional sports franchises ceases to use the Property as its principal home field location for playing regular season and post-season professional games, the License Fee shall be abated in full, and Licensee shall be under no further obligation to pay a License Fee or any other form of compensation to Licensor for the use of the Licensor's property or any other rights conferred to Licensee under this Agreement.

(e) There shall be no additional License Fee or other compensation due to Licensor for any changes to the Facilities, DAS or any portion thereof, unless, Licensee requests Licensor to approve an increase in the size of the Site licensed to Licensee under this Agreement.

(f) In addition, Licensee shall remit to Licensor the payments and reimbursements described in Sections 10 and 10.1 hereof

4. Access/Title and Quiet Possession. Licensor represents and warrants to Licensee and further agrees that: (a) pursuant to the Management Agreement, it is the authorized Licensor of the Property that is owned jointly by the City and the County; (b) it has rights of pedestrian and vehicular access from the nearest public roadway to the Site, which Licensee is permitted to use; (c) it has the right to enter into this Agreement; (d) the person signing this Agreement has the authority to sign; (e) with exception for police, fire, public health and/or public safety emergency limitations and restrictions on access, Licensor grants Licensee, its employees, agents and contractors non-exclusive access to the Site and DAS, and access to locations throughout the Structure and the Property as reasonably necessary to enable Licensee to test, monitor, maintain and repair Licensee's Facilities, the DAS and the performance thereof in different locations of the Structure as follows: (i) daily access between the hours of 9:00am to 5:00pm, (ii) daily extended hours of access (commencing three (3) hours) prior to the scheduled commencement of an "Event" (as defined below) and ending one (1) hour after the conclusion of each such Event on each day that an Event is scheduled in the Structure or on the Property, and (iii) twenty-four (24) hour access for emergency repair work that, from a practical standpoint, cannot be reasonably performed during normal business hours, so long as advance access arrangements are made with AEG, and AEG is compensated for any additional or overtime personnel costs incurred thereby. All access is subject to the rules and regulations of Licensor applied in a reasonable, uniform and non-discriminatory manner ("Access Rules") of which Licensee shall have received prior written notice; provided, however, that Licensee acknowledges that in all cases it must provide prior notice to AEG of intended access in accordance with the Access Rules, including the names of Licensee's authorized personnel seeking access, proof of identity of each individual, and the purpose, location, and anticipated duration of the access. The control over such access by Licensor includes control over the number of persons entering the Structure, and the route of ingress and egress over and through the Structure to the Facilities; provided, however, that such control shall not serve to prevent Licensee's use of the Facilities in the manner authorized hereby. Additionally, on the day of any Major League Baseball game, National Football League game, or any other event for which tickets are sold to the general public or for which the Structure is made available for use by a private entity (each an "Event") in the Structure or on the Property, and subject to Licensor's Access Rules furnished from time to time to Licensee. Licensor covenants and agrees to provide Licensee two (2) free parking places on the Property for two (2) vehicles, and free entry to the Structure for two (2) technical representatives of Licensee directly involved with the operation, maintenance and/or repair of Licensee's Facilities, DAS, and access to locations throughout the Structure and the Property as reasonably necessary to enable such representatives to test, monitor, maintain and repair Licensee's Facilities, the DAS and the performance thereof in different locations of the Structure. If additional parking is needed by Licensee above two (2) vehicles, Licensor shall use best efforts to provide such additional parking places for Licensee's personnel directly related to Licensee's legitimate business purposes under this Agreement, provided that Licensee shall provide prior notice of the need for additional parking spaces and pay Licensee's then standard parking rates charged to the general public on the day that such additional parking is needed by Licensee. Licensee acknowledges and agrees that one or more security and/or engineering representatives of Licensor may accompany such technical representatives at any or all times during any access to the Site or other locations in the Structure. Upon written request from Licensor, Licensee will deliver to Licensor and periodically update a list of Licensee

representatives that are authorized by Licensee to have access to the Facilities and the Structure. Any technical representative may be removed from the Structure by Licensor in the event the technician is not engaged in the testing, maintenance and repair of Licensee's DAS or the performance thereof in different locations of the Structure, or otherwise performing a reasonable business function in furtherance of this Agreement. Notwithstanding the above, Licensee acknowledges that its access rights to professional sports team Events may be subject to the rules and restrictions administered by the respective teams (i.e. the Oakland Raiders and the Oakland Athletics) or their respective leagues over which Licensor may have no, or only limited, control. Accordingly, Licensor shall have no responsibility or liability for a denial or limitation of Licensee's access rights by the teams or their respective leagues over which Licensor has no responsibility or control.

5. Assignment/Sublicense. Licensee has the right to sublicense (or otherwise transfer or allow the use of) all or any portion of the Facilities or the Site, or assign its rights under this Agreement with the written consent of Licensor, which consent shall not be unreasonably delayed or withheld and the consent of the City and County, not to be unreasonably withheld, conditioned or delayed. Notwithstanding the above, Licensee may assign this Agreement or sublicense the Facilities or the Site, and any of its rights herein, in whole or in part, without the consent of Licensor, the City or the County, to an affiliate, or to any entity which acquires all or substantially all of Licensee's assets in the market defined by the Federal Communications Commission in which the Property is located by reason of a merger, acquisition or other business reorganization. For purposes of this paragraph, "affiliate" means any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, Licensee. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

Licensee agrees to provide notice of the foregoing assignment within a reasonable period of time following such assignment. The parties acknowledge that conferring or sublicensing DAS user rights by Licensee to other wireless communication companies is contemplated, and Licensor shall cooperate to reasonably review and approve requests presented by Licensee to Licensor for other wireless communication companies to use the DAS as may be presented by Licensee from time to time during the Term. Licensor will not be entitled to any additional rent or other fees for its review or approval.

6. Notices. All notices must be in writing and are effective only when deposited in the U.S. mail, certified mail, return receipt requested and postage prepaid or when sent via overnight delivery service. Notices to Licensee are to be sent to: Licensee Property Services, Mailstop KSOPHT0101-Z2650, 6391 Sprint Parkway, Overland Park, Kansas 66251-2650, with a mandatory copy to: Licensee Law Department, Mailstop KSOPHT0101-Z2020, 6391 Sprint Parkway, Overland Park, Kansas 66251-2020, Attn.: Real Estate Attorney. Notices to Licensor must be sent to:

Oakland-Alameda County Coliseum Authority
Attn: Executive Director
7000 Coliseum Way
Oakland, CA 94621-1918

With a copy to: AEG Management Oakland, LLC
Attn: General Manager
7000 Coliseum Way
Oakland, CA 94621-1918

7. Improvements. Licensee may, at its expense, make improvements on and to the Site as it deems necessary or desirable from time to time for the operation of the Facilities. Licensor agrees to cooperate

with Licensee with respect to obtaining any required zoning or other governmental approvals for the Site, the Facilities and contemplated use thereof.

8. Compliance with Laws. Licensor represents and warrants to Licensee that Licensor's Property (including the Site) and all improvements located thereon are, to the best of its knowledge, in substantial compliance with building, life/safety, disability and other laws, codes and regulations of applicable governmental authorities. Licensee will substantially comply with all applicable laws relating to its possession and use of the Site.

9. Interference.

(a) Where there are existing radio frequency user(s) on the Property as of the Effective Date, Licensor will provide Licensee, upon execution of this Agreement, with a list of all such existing radio frequency user(s) on the Property to allow Licensee to evaluate the potential for Interference (as defined below). Licensee warrants that its use of the Facilities will not cause Interference (as defined herein) with existing radio and television frequency user(s) on the Property as of the date this Agreement is fully executed, provided that such users are operating in compliance within the terms of their respective licenses and all laws. Licensee also covenants and agrees to (i) promptly submit upon completion, Licensee's Facilities DAS communications' configuration, deployment and broadband frequency transmission plans and specifications to the Game Day Frequency Coordinator ("GDFC") of the National Football League ("NFL") for evaluation and comment (but without conferring an approval right) in connection with non-interference with pre-existing permitted frequency users, prior to going "on air" with the DAS. Additionally, on each NFL or MLB game day at the Structure, Licensee shall work cooperatively with the GDFC of the NFL and any equivalent frequency coordinator for MLB either through on-site support or through remote monitoring of the DAS through Licensee's Network Operations Center ("NOC") as Licensee shall have the right to determine to attempt to minimize the possibility of interference with television or other wireless signal transmissions managed by the NFL or MLB in the Structure. In the event that the communications signals transmitted or received through the DAS cause Interference with radio or television transmitting or receiving equipment used by or for a professional sports team at the Property, Licensee agrees to immediately eliminate such Interference. Additionally, during the first five (5) NFL games in the Structure when Licensee's Facilities as connected to the DAS are ready to be "on-air" with regular transmissions (as opposed to intermittent testing), Licensee shall provide at the Structure at least one (1) technical engineer on the day before the scheduled date of the NFL football game to facilitate coordination and pre-game testing with the GDFC, and also on the scheduled date of the NFL game for coordination in attempting to resolve claims of Interference pertaining to Licensee's Facilities. On dates when Events are occurring in the Structure or on the Property, and if Licensor has reasonably and objectively determined that Licensee's Facilities are the source of Interference, and if Licensee is unable to eliminate such Interference within twelve (12) hours of Licensor's telephone notification to the NOC at the following telephone number(800)-357-7641, then thereafter, Licensor shall have the right to require Licensee to power down the Facilities, except for intermittent testing of the Facilities, which testing Licensor shall have the right to supervise in Licensor's sole discretion. Either a direct telephone call to a representative of Licensee at the NOC or Licensor leaving a voice message reporting Interference pertaining to Licensee's Facilities at the telephone number of the NOC shall be deemed sufficient notification by Licensor for purposes of notification of Interference to Licensee pursuant to this Section 9(a).

In addition to any other remedies that Licensor may have for a breach of this subsection, Licensor shall be entitled to the indemnification provisions of Section 13.

(b) Licensor will not grant, during the Term of this Agreement, a lease, license or any other right to any third party for the use of the Property, if such use may in any way adversely affect or cause Interference with the DAS, the lawful operations of Licensee's Facilities or the rights of Licensee under this Agreement. During the Term of this Agreement, Licensor will notify Licensee in writing prior to granting any third party the right to install and operate communications equipment on the Property that

has the potential of causing Interference with the DAS, the lawful operations of Licensee's Facilities or the rights of Licensee under this Agreement.

(c) During the Term, Licensor will not use, nor will Licensor permit its employees, licensees, invitees, agents or independent contractors to use, any portion of the Property in any way which causes Interference with the DAS, the lawful operations of Licensee's Facilities or the rights of Licensee under this Agreement. Licensor will cause such Interference to cease within two (2) business days after receipt of notice from Licensee. In the event any such Interference does not cease within the aforementioned cure period, then the parties acknowledge that Licensee will suffer irreparable injury, and therefore, Licensee will have the right, in addition to any other rights that it may have at law or in equity for Licensor's breach of this Agreement, to elect to enjoin such Interference or to terminate this Agreement upon notice to Licensor.

(d) For the purposes of this provision, "Interference" may include, but is not limited to, any use of the Property (other than as expressly allowed under this Agreement) that causes material and adverse electronic, physical or obstruction interference with, or degradation of, the communications signals to or from Licensee's Facilities or the DAS, or to or from the communications equipment of radio or television frequency users on the Property.

10. Utilities.

(a) Licensee will keep and maintain the Site in good condition, reasonable wear and tear accepted. Licensor will maintain and repair the Property and access thereto and all areas of the Facilities where Licensee does not have exclusive control, in good and leasable condition, subject to reasonable wear and tear and casualty damage accepted.

(b) Licensee will be responsible for paying on a monthly or quarterly basis all utility charges for electricity, telephone service or any other utility used or consumed by Licensee at the Site. Licensee shall use commercially reasonable efforts to secure separate utility service for Licensee's electricity requirements in connection with its operation of the Facilities. In the event Licensee determines that it would be more feasible to temporarily or permanently submeter from existing utility services at the Property, then Licensor shall allow Licensee to submeter from existing utility services at the Property. When submetering by Licensee occurs under this Agreement, Licensor will read the meter and provide Licensee with an invoice and usage data on a monthly basis. Licensor agrees that it will not include a mark-up or other administrative fee on the utility charges. Licensor further agrees to provide the usage data and invoice on forms provided by Licensee and to send such forms to

Sprint Corporation
PO Box 183098
Columbus, OH 43218

Licensee will remit payment within thirty (30) days of receipt of the usage data and required forms. Failure by Licensor to perform this function will limit utility fee recovery by Licensee to a 12-month period. If Licensee submeters electricity, Licensor agrees to give Licensee at least twenty-four (24) hours advanced notice of any planned interruptions of said electricity. Licensor acknowledges that Licensee provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Licensee's reasonable determination, Licensor agrees to allow Licensee the right to bring in a temporary source of power for the duration of the interruption. Should the need arise for the use of emergency power generator(s), and if Licensee elects to use a generator(s) provided by Licensor, if any, Licensee agrees to pay its pro rata portion of the actual utility use (without mark-up or other administrative fee) of the backup generator(s) to Licensor. Licensor will not be responsible for interference with, interruption of or failure, beyond reasonable control of Licensor, of such services to be furnished or supplied by Licensor. Licensee shall be responsible for ordering separate T-1 service or such other telephone service connectivity which Licensee may require from time to time for the use and operation of the Facilities, and maintaining such separate telephone service connectivity during the Term at Licensee's sole expense.

Notwithstanding the foregoing, by specific mutual agreement between Licensor and Licensee, Licensor shall be responsible for all or a portion of the cost of bringing the T-1 and/or such other telephone service from the main (or minimum) point of entry ("MPOE") on the Property to the Site or such other location comprising a portion of the Site as Licensee shall have the right to designate for the installation and operation of the Facilities.

(c) As reasonably necessary for the installation and operation of the Facilities and connection to and use of the DAS pursuant to the Permitted Use, Licensor agrees to grant to any utility company providing utility services to Licensee a limited easement over, under and across the Property in order for the utility company to provide a service to Licensee.

10.1. Taxes. Licensor shall be responsible for payment of all ad valorem taxes levied upon the lands, improvements and other property of Licensor. Licensee shall be responsible for all property taxes levied upon Licensee's Site and Facilities, whether legally classified as personal property, fixtures or realty. Licensor shall provide Licensee with copies of all assessment notices on or including the Site and/or Facilities promptly upon receipt, along with sufficient written documentation detailing any assessment increases attributable to the improvements, but in no event later than thirty (30) days after receipt by Licensor. If Licensor fails to provide such notice within ninety (90) days of receipt, Licensor shall be responsible for all increases in taxes for the year covered by the assessment, and all subsequent years to the extent (a) Licensor continues to fail in providing notice, or (b) Licensee is precluded from challenging such assessment with the appropriate government authorities. Licensee shall have the right to contest, in good faith, the validity or the amount of any tax or assessment levied against the Site and/or Facilities by such appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps in a commercially reasonable manner as Licensee may deem appropriate. This right shall include the ability to institute any legal, regulatory or informal action in the name of Licensor, Licensee, or both, with respect to the valuation of the Site and/or Facilities. Licensor shall cooperate in the institution and prosecution of any such proceedings and will execute any documents required therefore. The expense of any such proceedings shall be borne by Licensee and any refunds or rebates secured as a result of Licensee's action shall belong to Licensee.

IL Termination. This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days' prior written notice, if the other party remains in default under Section 12 of this Agreement after the applicable cure periods; or

(b) by Licensee upon thirty (30) days' prior written notice to Licensor, if Licensee is unable to obtain, or maintain, any required approval(s) for the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Facilities as now or hereafter intended by Licensee; or if Licensee determines, in its reasonable judgment, that the cost of obtaining or retaining the same is commercially prohibitive; or

(c) by Licensee upon sixty (60) days' prior written notice to Licensor for any reason or no reason after the License Fee Commencement Date, so long as Licensee pays Licensor a termination fee equal to six (6) months' License Fee, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Licensor under any one or more of the permitted termination provisions contained in this Agreement;

(d) by Licensor, effective at any time after October 1, 2014, but only if each and all of the following conditions shall have been satisfied:

(i) the National Football League franchise, Oakland Raiders, no longer utilizes the Property as its principal home field location for playing regular season professional games;

(ii) the Major League Baseball franchise, Oakland A's, no longer utilizes the Property as its principal home field location for playing regular season professional baseball games;

(iii) Licensor furnishes in good faith to Licensee a bona fide written notice of intention to either demolish or undertake a substantial rehabilitation of the Property, which demolition or substantial rehabilitation requires the removal (as opposed to the temporary relocation) of all or a portion of the DAS;

(iv) a written notice of termination under this Section 11(d) is delivered to Licensee no sooner than January 1, 2014, which written notice shall provide an effective date of termination which is no sooner than nine (9) months following the date of the written notice; and

(v) prior to the delivery of the written notice of termination to Licensee pursuant to Section 11(d)(iv), Licensor and Licensee shall endeavor in good faith to execute a commercially reasonable amendment, which results in no additional License Fee for a suitable relocation alternative for the relocation of Licensee's Facilities onto a different location on Licensor's Property. All Licensee's costs and expenses incurred to relocate Licensee's Facilities to such suitable relocation alternative shall be borne by Licensee.

In the event that each and all conditions in Section 11(d)(i) through 11(d)(v) have not been satisfied, Licensor's attempted termination of this Agreement under this Section 11(d) shall be deemed invalid, and the rights of Licensee under this Agreement shall remain in full force and effect.

Additionally, in the event that a termination of the Agreement has occurred properly pursuant to Licensor's termination right contained in the Section 11(d), and notwithstanding any other provision of this Agreement to the contrary, Licensee shall have the right, but not the obligation, to remove all or any portion of the Facilities, provided that Licensee shall restore or repair any damage to the Site caused by Licensee's removal of the Facilities or any portion thereof unless waived in writing by Licensor, which waiver shall not be unreasonably withheld, conditioned or delayed. If Licensee fails to remove or relocate all or any portion of the Facilities within sixty (60) days of the effective date of Termination specified in Section 11(d), the Facilities or portion thereof shall be deemed abandoned and Licensor shall have the right to dispose of it.

12. Default.

(a) The following will be deemed a default by Licensee of this Agreement: (i) non-payment of Licensee Fee if such Licensee Fee remains unpaid for more than thirty (30) days after receipt of written notice from Licensor of such failure to pay; or (ii) except as otherwise expressly provided in this Agreement, Licensee's failure to perform any other term or condition under this Agreement within forty-five (45) days after receipt of written notice from Licensor of such failure to perform, except that Licensee will not be in default if the failure to perform cannot reasonably be cured within such forty-five (45) day period, or other cure period as expressly provided in this Agreement, and Licensee has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Licensee. If Licensee remains in default beyond any applicable cure period, Licensor will have the right to terminate this Agreement and to exercise any and all rights and remedies available to it under law and in equity.

(b) The following will be deemed a default by Licensor and a breach of this Agreement; (i) failure to provide access to the Facilities within two (2) business days, or to cure an interference problem within two (2) business days, after receipt of written notice of such default; or (ii) Licensor's failure to perform any term, condition, or breach of any warranty or covenant under this Agreement within forty-five (45) days after receipt of written notice from Licensee specifying the failure. No such failure, however, will be deemed to exist if Licensor has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Licensor. If Licensor remains in default beyond any applicable cure period, Licensee will have: (i) the right to cure Licensor's default and to deduct the costs of such cure from any monies due to Licensor from Licensee, and (ii) any and all other rights available to it under law and equity, including, but not limited to, the right to terminate the Agreement.

13. Indemnity.

(a) Licensee agrees to indemnify, defend and hold Licensor, City and County harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising from the installation, use, operation, maintenance, repair or removal of the DAS, Licensee's exercise of its license hereunder or Licensee's breach of any provision of this Agreement, except to the extent attributable to the active negligence or intentional act or omission of Licensor, City, County or their respective employees, agents or independent contractors.

(b) Licensor agrees to indemnify, defend and hold Licensee harmless from and against any and all injury, loss, damage, or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorney's fees and court costs) arising directly from the negligence or intentional misconduct of Licensor, City, County, or their respective its employees or agents, or Licensor's breach of any provision of this Agreement, except to the extent attributable to the negligence or intentional act or omission of Licensee, its employees, agents, assigns or independent contractors.

14. Environmental.

(a) Licensor and Licensee agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Licensee agrees to hold harmless and indemnify Licensor from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Licensee for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("Claims"), to the extent arising from Licensee's breach of its obligations under Section 14(a). Licensee agrees to hold harmless and indemnify Licensor from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Licensee for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Licensee, and for any hazardous condition caused by or arising from Licensee's acts or omissions related to its operations on the Property. Licensor hereby confirms and agrees that Licensee shall have no responsibility or liability for any Claims arising from or pertaining to any subsurface or other contamination of the Property with hazardous substances prior to the full execution of this Agreement or thereafter throughout the Term for Licensor's acts and omissions related to hazardous substances.

(c) The indemnifications of this Section 14 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 14 will survive the expiration or termination of this Agreement.

(d) In the Event Licensee becomes aware of any hazardous materials on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Licensee's sole reasonable determination, renders the condition of the Facilities or Property unsuitable for Licensee's use, or if Licensee reasonably believes that the leasing or continued leasing of the Facilities would expose Licensee to undue risks of liability to a governmental agency or third party, Licensee will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Licensor; provided, however, that such adverse environmental condition or matter shall not be one for which Licensee is obligated to indemnify Licensor.

15. Subordination and Non-Disturbance. Licensee represents, warrants and agrees that this License is and shall be subject and subordinate to all mortgages, deeds of trust, or other encumbrances now placed upon the Property by Licensor. Additionally, Licensee covenants and agrees to execute and deliver to

Licensors a commercially reasonable subordination, non-disturbance and attornment agreement (“SNDA”) as may be requested by Licensors in connection with any mortgage, deed of trust, bond financing or any other financing arrangement related to the Property within thirty (30) business days following Licensee’s receipt of written request from Licensors to do so. Notwithstanding the provisions of Section 12(a) above, by specific negotiation only a twenty (20) business day cure period shall be afforded to Licensee to execute and deliver to Licensors an SNDA following Licensee’s receipt of written notice of a default for failure to execute a commercially reasonable SNDA which has been validly delivered to Licensee pursuant to the provisions of this Section 15. For a written request to sign and deliver an SNDA to be considered valid, the written request (i) must include a complete copy of the SNDA, (ii) must be provided concurrently to each Licensee notice party listed in Section 6 of this Agreement; and (iii) must expressly provide in at least 12 point bold type, **“PLEASE TAKE NOTICE: PURSUANT TO SECTION 15 OF THE LICENSE AGREEMENT BETWEEN LICENSOR AND LICENSEE, LICENSEE IS GRANTED ONLY THIRTY (30) BUSINESS DAYS TO EXECUTE AND RETURN THIS SUBORDINATION, NON-DISTRUBANCE AND ATTORNMENT AGREEMENT TO LICENSOR, OR LICENSOR SHALL RESERVE THE RIGHT TO IMMEDIATELY THEREAFTER DECLARE LICENSEE TO BE IN DEFAULT OF THIS AGREEMENT.”**

Licensee shall have the right to request in good faith only commercially reasonable changes to any SNDA presented to Licensee, provided, however, that if the SNDA is substantively similar in all respects to the SNDA attached as Exhibit C, then Licensee hereby covenants and agrees to sign and deliver such an SNDA without requesting substantive changes. If Licensee has timely presented to Licensors commercially reasonable changes to an SNDA which is not substantively similar in all respects to the SNDA attached as Exhibit C, then the time period for Licensee to sign and deliver the SNDA shall be reasonably extended, for a period not to exceed ten (10) business days, provided that Licensee continues in good faith to work with Licensors and its lender to consider and resolve the commercially reasonable changes which Licensee has presented to Licensors.

16. Removal/Restoration. All portions of the Facilities brought onto the Property by Licensee will be and remain Licensee’s personal property and, at Licensee’s option, may be removed by Licensee at any time during the Term and, at the termination of the Term, shall be removed by Licensee upon Licensors’ written demand given within ninety (90) days of such termination. Licensors covenants and agrees that no part of the Facilities constructed, erected or placed at the Site by Licensee will become, or be considered as being affixed to or part of, the Property, it being the specific intention of Licensors that all improvements of every kind and nature constructed, erected, or placed by Licensee at the Site will be and remain the property of Licensee and may be removed by Licensee at any time during the Term. Within one hundred twenty (120) days of the termination of this Agreement, Licensee will remove all of Licensee’s above-ground improvements and Licensee will restore the Site to its condition at the commencement of this Agreement, reasonable wear and tear and loss by uninsurable casualty or other causes beyond Licensee’s control excepted. With Licensors’ prior written consent, not to be unreasonably withheld, conditioned or delayed, Licensee will not be required to remove from the Facilities or the Property any structural steel or any foundations or underground utilities. Licensee shall be liable to Licensors for any damage to the Property to the extent caused by Licensee’s removal, or failure of removal of the Facilities from the Site and the Property.

17. Insurance. During the initial Term and all Renewal Terms, Licensee will carry, at its own cost and expense, the following insurance: (i) “All Risk” property insurance for its property’s replacement cost; (ii) Workers’ Compensation Insurance and California SDI Insurance as required by law; and (iii) commercial general liability (CGL) insurance with respect to its activities on the Property, such insurance to afford minimum protection of Three Million (\$3,000,000) combined single limit per occurrence, and Five Million (\$5,000,000) aggregate, providing coverage for bodily injury and property damage. Licensee’s CGL insurance shall include Licensors, the County, the City, AEG, the Oakland Raiders, the

Oakland A's, the Golden State Warriors, and each of their officers, directors, or other governing board members, partners, members, managers, agents and employees as an additional insured, and requiring a minimum of thirty (30) days notice to Licensor in the event of cancellation of coverage. If any of the insurance policies referred to in this Section expire prior to the termination or expiration of the Term hereof, Licensee shall deliver to Licensor a certificate of insurance evidencing the renewal of such policy or policies upon expiration. Notwithstanding the foregoing insurance requirements, Licensee shall have the right, with prior notice to Licensor, to self-insure against the risks for which Licensee is required to insure against in the Section. In the event Licensee elects to self-insure its obligation to include Licensor as an additional insured as permitted by the previous sentence, the following provisions shall apply: (1) Licensor shall promptly and no later than thirty (30) days after notice thereof provide Licensee with written notice of any claim, demand, lawsuit, or the like for which it seeks coverage pursuant to this Section and provide Licensee with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit or the like; (2) Licensor shall not settle any such claim, demand, lawsuit or the like without the prior written consent of Licensee; (3) Licensor shall fully cooperate with Licensee in the defense of the claim, demand, lawsuit, or the like; (4) Licensee will defend Licensor with counsel reasonably acceptable to Licensee; (5) Licensee's self-insurance obligation to indemnify Licensor shall not extend to claims against Licensor for punitive damages, exemplary damages, or Licensor's primary negligence, but Licensee shall retain the duty to defend, whether or not under a reservation of rights; and (6) such obligation shall not apply when the claim or liability arises from the negligent or intentional act or omission of Licensor, its employees, agents, or independent contractors. 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.

18. Maintenance. Licensee will be responsible for repairing and maintaining the Facilities and any other improvements installed by Licensee at the Site in a proper operating and reasonably safe condition; provided, however, if any repair or maintenance is required due to the acts or omissions of Licensor, its agents, contractors or employees, Licensor will promptly reimburse Licensee for the reasonable costs incurred by Licensee to restore the damaged areas to the condition which existed immediately prior thereto. Licensor will maintain and repair all other portions of Licensor's Property in a proper operating and reasonably safe condition.

19. Warranties. Licensee and Licensor each acknowledge and represent that it is duly organized, validly existing and in good standing under the laws of the respective state of its organization and it has the legal right, power and authority to enter into this Agreement and bind itself hereto through the authorized person set forth as signatory for the party below.

Licensor makes no warranty, express or implied, concerning the fitness or suitability of the Property for Licensee's intended use under this Agreement, and Licensor expressly disclaims any such warranty. Licensee takes the Site and the rights conferred to Licensor, as it finds it. Except as otherwise expressly set forth herein, Licensor, County and City shall have no responsibility for its condition or any damage suffered by Licensee or any other person because of such condition.

20. Miscellaneous. (a) This Agreement applies to and binds the heirs, successors, executors, administrators and assigns of the parties to this Agreement; (b) this Agreement is governed by the laws of the state in which the Facilities are located; (c) Licensor agrees to promptly execute and deliver to Licensee a recordable Memorandum of Agreement in the form of **Exhibit D**, attached; (d) each party will execute, within 20 days after written request, an estoppel certificate or statement certifying that this Agreement is unmodified and in full force and effect or, if modified, describing such modification(s), and that the other party is not in default (beyond applicable cure periods), except as specified in the statement. The estoppel certificate may also certify the current rent amount and whether any rent has been paid in advance; (e) this Agreement (including the Exhibits and Riders) constitutes the entire agreement between the parties and supersedes all prior written and verbal agreements, representations, promises or

understandings between the parties. Any amendments to this Agreement must be in writing and executed by both parties; (f) if any provision of this Agreement is invalid or unenforceable with respect to any party, the remainder of this Agreement or the application of the provision to persons other than those as to whom it is held invalid or unenforceable, will not be affected and each provision of this Agreement will be valid and enforceable to the fullest extent permitted by law; and(g) the prevailing party in any action or proceeding in court or mutually agreed upon arbitration proceeding to enforce the terms of this Agreement, or to obtain a declaration of a party's rights and obligations under this Agreement, is entitled to receive its reasonable attorneys' fees and other reasonable enforcement costs and expenses from the non-prevailing party.

21. **Non-Binding Until Fully Executed.** This Agreement is for discussion purposes only and does not constitute a formal offer by either party. This Agreement is not and will not be binding on either party until and unless it is fully executed by both parties.

The following Exhibits and Riders are attached to and made a part of this Agreement: Exhibits A, B, C, D and E.

LICENSOR:
Oakland-Alameda County Coliseum Authority

LICENSEE:
Sprint Spectrum L.P.,
a Delaware limited partnership

By: _____
Name: _____
Title: _____

By: _____
Name: _____
Title: _____

Taxpayer ID: _____

Contact Phone Number: (510) 569-2121

Contact Phone Number:

Email address: DEENA MCCLAIN [dgmccclain@gmail.com]

Email address:

Site Name: Oakland Coliseum and Oracle Arena _____ Site ID #: SF96xc003 & SF96xc004

ACKNOWLEDGMENT AND APPROVAL OF THE CITY AND THE COUNTY APPEAR AS FOLLOWS:

ACKNOWLEDGED AND APPROVED:

CITY OF OAKLAND

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

APPROVED AS TO FORM:

OFFICE OF THE CITY ATTORNEY

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

ACKNOWLEDGED AND APPROVED:

COUNTY OF ALAMEDA

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

APPROVED AS TO FORM:

OFFICE OF THE COUNTY COUNSEL

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

Attach Exhibit A - Legal Description of Licensor's Property
Attach Exhibit B - Site Plan
Attach Exhibit C - SNDA
Attach Exhibit D - Memorandum of Agreement Form
Attach Exhibit E - Form of Written Acknowledgement of Term Commencement Date

Licensor Initials: _____
Licensee Initials: _____

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

**EXHIBIT A
TO SITE AGREEMENT**

Legal Description of Licensor's Property

The Licensor's Property is located at 7000 Coliseum Way, situated in the City of Oakland, County of Alameda State of California commonly described as follows:

Insert Legal Description:

Commencing at a point on the northwestern line of Lot 32 as said lot is delineated and so designated on a certain map entitled "Map of the Lands in Partition in the Suit or Wm. P. Toler, et al., vs Jose C. Peralta, administrator, et al.", etc., in the District Court of the Third Judicial District for the State of California in and for the County of Alameda, December 31, 1879, Case No. 5400 said point of beginning being south 50° 33' west 40 feet from the most northern corner of said lot, and running thence along the said lot line and its extension north 50° 33' east 222 feet to the southwestern line of the right of way of the Central Pacific Railroad, thence along the said right of way line north 42° 50' west 25.04 feet; thence south 50° 33' west 220.52 feet; and thence south 39° 27' east 25.00 feet to the point of beginning.

**EXHIBIT B
TO SITE AGREEMENT**

Site Plan

The Site is described as follows:

Insert Site Plan:

Note: Licensor and Licensee may, at Licensee's option, replace this Exhibit with an exhibit setting forth the legal description of the Site, or an as-built drawing depicting the Site. Any visual or textual representation of the Facilities is illustrative only, and does not limit the rights of Licensee as provided for in the Agreement. Without limiting the generality of the foregoing:

1. The Site may be setback from the boundaries of Licensor's Property as required by the applicable governmental authorities.
2. The access road's width may be modified as required by governmental authorities, including police and fire departments.
3. The locations of any access and utility easements are illustrative only. Actual locations may be determined by Licensee and/or the servicing utility company in compliance with local laws and regulations.

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

**EXHIBIT C
TO SITE AGREEMENT
Form of SNDA**

SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT

to the Agreement dated _____, 2013, by and between, Oakland-Alameda County Coliseum Authority, as Licensor, and Sprint Spectrum L.P., as Licensee.

[Pre-approved SNDA Form Appears On Following Pages]

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

Prepared by and Return to:

XXXXXXXXXX

Attn: _____

Cell Site No. : SF96xc003 & SF96xc004

Cell Site Name: Oakland Coliseum and Oracle Arena

DAS Fixed Asset Number: xxxx

State: California

County: Alameda

EXEMPLAR

**SUBORDINATION, NON-DISTURBANCE
AND ATTORNMENT AGREEMENT**

THIS AGREEMENT ("Agreement), dated as of the date below, between _____ having its principal office at _____, (hereinafter called "Mortgagee") and Sprint Spectrum L.P., a Delaware limited liability company, having a mailing address of Mailstop KSOPHT0101-Z2650, 6391 Sprint Parkway, Overland Park, Kansas 66251-2650 (hereinafter called "Licensee").

WITNESSETH:

WHEREAS, Licensee has entered into a certain license agreement dated _____, 201____, (the "License") with Oakland-Alameda County Coliseum Authority, a California joint powers authority organized and existing under applicable provisions of the California Government Code and an Amended and Restated Joint Exercise of Powers Agreement, dated December 17, 1996, by and between the County of Alameda (the "County") and the City of Oakland (the "City"), having its principal office at 7000 Coliseum Way, Oakland, CA 94621-1918 (hereinafter called "Licensor"), covering property more fully described in Exhibit A attached hereto and made a part hereof (the "Premises"); and

WHEREAS, Licensor has given, or intends to give, to Mortgagee a deed of trust (the "Mortgage") upon property having a street address of _____, being identified as Lot _____ in Block _____ in the _____ of _____, _____ County, State of _____ ("Property"), a part of which Property contains the Premises; and

WHEREAS, the Mortgage is, or will be, in the original principal sum of _____ (\$ _____) Dollars, which Mortgage has been, or will be, recorded in the appropriate public office in and for _____ County, _____; and

WHEREAS, Licensee desires to be assured of continued use of the Premises under the terms of the License and subject to the terms of this Agreement.

NOW, THEREFORE, in consideration of the mutual promises, covenants and agreements herein contained, the receipt and sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound hereby, agree as follows:

1. So long as this Agreement will remain in full force and effect, the License is and will be subject and subordinate to the lien and effect of the Mortgage insofar as it affects the real property and fixtures of which the Premises forms a part (but not Licensee's trade fixtures and other personal property), and to all renewals, modifications, consolidations, and extensions thereof, to the full extent of the principal sum secured thereby and interest thereon, with the

same force and effect as if the Mortgage had been executed, delivered, and duly recorded among the above-mentioned public records, prior to the execution and delivery of the License.

2. In the event Mortgagee takes possession of the Premises as mortgagee-in-possession, including but not limited to, by deed in lieu of foreclosure or foreclosure of the Mortgage, Mortgagee agrees not to affect or disturb Licensee's right to use the Premises and any of Licensee's other rights under the License in the exercise of Mortgagee's rights so long as Licensee is not then in default, after applicable notice and/or grace periods, under any of the terms, covenants, or conditions of the License.

3. In the event that Mortgagee succeeds to the interest of Licensor or other licensor under the License and/or to title to the Premises, Mortgagee and Licensee hereby agree to be bound to one another under all of the terms, covenants and conditions of the License; accordingly, from and after such event, Mortgagee and Licensee will have the same remedies against one another for the breach of an agreement contained in the License as Licensee and Licensor had before Mortgagee succeeded to the interest of Licensor; provided, however, that Mortgagee will not be:

- (a) personally liable for any act or omission of any prior licensor (including Licensor), except for acts or omissions of a continuing nature (but only to the extent continuing after the date of succession); or
- (b) bound by any rent or additional rent which Licensee might have paid for more than the payment period as set forth under the License (one month, year etc.) in advance to any prior licensor (including Licensor), except to the extent such rent is actually received by Mortgagee.

4. In the event that Mortgagee or anyone else acquires title to or the right to possession of the Premises upon the foreclosure of the Mortgage, or upon the sale of the Premises by Mortgagee or its successors or assigns after foreclosure or acquisition of title in lieu thereof or otherwise, Licensee agrees not to seek to terminate the License by reason thereof, but will remain bound unto the new owner so long as the new owner is bound to Licensee (subject to paragraph 3 above) under all of the terms, covenants and conditions of the License.

5. Mortgagee understands, acknowledges and agrees that notwithstanding anything to the contrary contained in the Mortgage and/or any related financing documents, including, without limitation, any UCC-1 financing statements, Mortgagee will acquire no interest in any furniture, equipment, trade fixtures and/or other property installed by Licensee on the Property. Mortgagee hereby expressly waives any interest which Mortgagee may have or acquire with respect to such furniture, equipment, trade fixtures and/or other property of Licensee now, or hereafter, located on or affixed to the Property or any portion thereof and Mortgagee hereby agrees that same do not constitute realty regardless of the manner in which same are attached or affixed to the Property.

6. This Agreement will be binding upon and will extend to and benefit the successors and assigns of the parties hereto and to any assignees or subtenants of Licensee which are permitted under the License. The term "Mortgagee", when used in this Agreement will be deemed to include any person or entity which acquires title to or the right to possession of the Premises by, through or under Mortgagee and/or the Mortgage, whether directly or indirectly.

PLEASE TAKE NOTICE: PURSUANT TO SECTION 15 OF THE LICENSE AGREEMENT BETWEEN LICENSOR AND LICENSEE, LICENSEE IS GRANTED ONLY THIRTY (30) BUSINESS DAYS TO EXECUTE AND RETURN THIS SUBORDINATION, NON-DISTRUBANCE AND ATTORNMENT AGREEMENT TO LICENSOR, OR LICENSOR SHALL RESERVE THE RIGHT TO IMMEDIATELY THEREAFTER DECLARE LICENSEE TO BE IN DEFAULT OF THIS AGREEMENT.

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

IN WITNESS WHEREOF, the undersigned has caused this Agreement to be executed this day of _____, 20__.

LICENSEE:

By: _____

Name: _____

Title: _____

Date: _____

MORTGAGEE:

a _____

By: _____

Name: _____

Title: _____

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

**EXHIBIT D
TO SITE AGREEMENT**

Memorandum of Agreement

This Memorandum of Agreement ("Memorandum") dated _____, 20__ evidences that a Site Agreement (the "Agreement") dated _____, 20__ (the "Effective Date"), was made and entered into between Oakland-Alameda County Coliseum Authority, a California joint powers authority organized and existing under applicable provisions of the California Government Code and an Amended and Restated Joint Exercise of Powers Agreement, dated December 17, 1996, by and between the County of Alameda (the "County") and the City of Oakland (the "City"), having a mailing address of 7000 Coliseum Way, Oakland, CA 94621-1918 ("Licensor") and Sprint Spectrum, L.P ("Sprint/Nextel" or "Licensee").

The Agreement provides in part that Licensee has the right to enter upon certain real property owned by Licensor and located at 7000 Coliseum Way, City of Oakland, County of Alameda, State of California, as further described in the Agreement (the "Facilities") for the purpose of performing investigations and tests and, upon finding the Facilities appropriate, to lease the Facilities for the purpose of installing, operating and maintaining a communications facility and other improvements. The Facilities is further described in Exhibit A attached hereto.

The term of Licensee's license under the Agreement is 5 years commencing on the earlier to occur of: (a) the first (1st) day of the month following Licensee's commencement of installation of Licensee's equipment or (b) January 1, 2014(as defined in the Agreement) or ("Term Commencement Date"), and is subject to 4 renewal terms of 5 years each that may be exercised by Licensee. Following the expiration of the 4th Renewal Term, if exercised by Licensee, the Agreement may be extended by the parties for up to four (4) additional one (1) year terms as set forth in the Agreement.

The parties have executed this Memorandum as of the day and year first above written.

LICENSOR

Oakland-Alameda County Coliseum Authority

By: _____

Name: _____

Title: _____

Address: _____

Contact Phone Number: _____

LICENSEE

Sprint Spectrum L.P., a Delaware limited partnership

By: _____

Name: _____

Title: _____

Address: _____

Email Address: _____

ACKNOWLEDGMENT AND APPROVAL OF THE CITY AND THE COUNTY APPEAR AS FOLLOWS:

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

ACKNOWLEDGED AND APPROVED:

CITY OF OAKLAND

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

APPROVED AS TO FORM:

OFFICE OF THE CITY ATTORNEY

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

ACKNOWLEDGED AND APPROVED:

COUNTY OF ALAMEDA

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

APPROVED AS TO FORM:

OFFICE OF THE COUNTY COUNSEL

By: _____
Print Name: _____
Its: _____
Date: _____, 2013

Attach Exhibit A - Site Description

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

LICENSOR NOTARY BLOCK:

STATE OF

COUNTY OF

The foregoing instrument was (choose one) attested or acknowledged before me this _____ day of _____, 20____, by (choose one) _____ as an individual, _____, as _____ of _____, a _____ corporation, on behalf of the corporation, or _____, partner or agent on behalf of _____, a _____ partnership.

(AFFIX NOTARIAL SEAL)

(OFFICIAL NOTARY SIGNATURE)
NOTARY PUBLIC STATE OF

My commission expires:

(PRINTED, TYPED OR STAMPED NAME OF NOTARY)
COMMISSION NUMBER:

STATE OF

COUNTY OF

The foregoing instrument was (choose one) attested or acknowledged before me this _____ day of _____, 20____, by (choose one) _____ as an individual, _____, as _____ of _____, a _____ corporation, on behalf of the corporation, or _____, partner or agent on behalf of _____, a _____ partnership.

(AFFIX NOTARIAL SEAL)

(OFFICIAL NOTARY SIGNATURE)
NOTARY PUBLIC STATE OF

My commission expires:

(PRINTED, TYPED OR STAMPED NAME OF NOTARY)
COMMISSION NUMBER:

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

LICENSEE NOTARY BLOCK:

STATE OF _____

COUNTY OF _____

The foregoing instrument was (choose one) attested or acknowledged before me this _____ day of _____, 20____, by (choose one) _____ as an individual, _____, as _____ of _____, a _____ corporation, on behalf of the corporation, or _____, partner or agent on behalf of _____, a _____ partnership.

(AFFIX NOTARIAL SEAL)

(OFFICIAL NOTARY SIGNATURE)
NOTARY PUBLIC STATE OF _____

My commission expires: _____

(PRINTED, TYPED OR STAMPED NAME OF NOTARY)

Site Name: Oakland Coliseum & Oracle Arena Sprint Site ID #: SF96xc003 &SF96xc004

EXHIBIT E

Form of Written Acknowledgement of Term Commencement Date

TERM COMMENCEMENT DATE ACKNOWLEDGEMENT

Licensor:

Licensee:

License Agreement Date:

Site:

The Term Commencement Date of the Agreement is hereby established as _____, 20__.

Licensor:

By: _____

Name: _____

Title: _____

Date Signed: _____

Licensee:

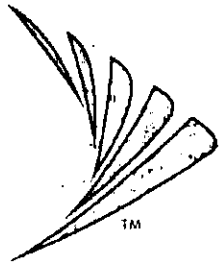
By: _____

Name: _____

Title: _____

Date Signed: _____

Sprint



OAKLAND COLISEUM & ORACLE ARENA SPRINT DAS

SF96XC004 ORACLE ARENA
SF96XC003 OAKLAND COLISEUM

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621
ALAMEDA COUNTY

LATITUDE: 37.751233 (37° 45' 0.44" N)
LONGITUDE: -122.201981 (122° 12' 07.31" W)

CALIFORNIA STATE CODE COMPLIANCE

SPRINT PROPOSES TO ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITY'S. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PREVENT FROM NOW COMPLIANCE TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (PHCL TITLE 24 & 25)
- 2010 CALIFORNIA BUILDING CODE
- CITY/COUNTY ORDINANCES
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2010 MECHANICAL, CALIFORNIA CODE
- ANSI/UL-222-LIFE SAFETY CODE NFPA-101
- 2010 CALIFORNIA PLUMBING CODE
- 2010 CALIFORNIA ELECTRICAL CODE
- 2010 LOCAL BUILDING CODE

ACCESSIBILITY REQUIREMENTS

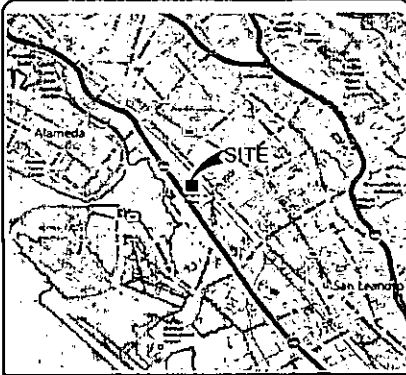
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.



CODE BLOCK

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
SITE ACQUISITION		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REPRESENTATIVE		

SIGNATURE BLOCK



VICINITY MAP

FROM THE OAKLAND INTERNATIONAL AIRPORT:

- HEAD NORTHEAST ONTO AIRPORT DRIVE (334 FEET)
- CONTINUE ONTO 98TH AVENUE (1.0 MILES)
- TAKE THE INTERSTATE 880 NORTH RAMP TO DOWNTOWN/OAKLAND (0.2 MILES)
- MERGE ONTO I-880 NORTH/INTERSTATE 880 (1.2 MILES)
- TAKE EXIT 37 TOWARD 66TH AVE/ZHONG WAY/MOAPKE COLISEUM (0.2 MILES)
- MERGE ONTO COLISEUM WAY (450 FEET)
- DESTINATION WILL BE ON THE RIGHT.

DRIVING DIRECTIONS

SPRINT PROPOSES TO BUILD-OUT A NEW UNMANNED TELECOMMUNICATIONS FACILITY

- INSTALL (1) (1) 14'5" x 25' CONCRETE BLOCK WALL EQUIPMENT ENCLOSURE.
- INSTALL (9) ELECTRICAL PANEL AND REQUIRED CONDUITS.
- INSTALL (9) TELECOM/FIBER PANEL AND REQUIRED CONDUITS FROM TELCO/FIBER P.O.C.
- INSTALL (9) COAX CABLE LINES TO REAT HEAD-END EQUIPMENT.
- INSTALL (2) (2) GPS ANTENNAS.
- INSTALL (9) SPRINT COMPOUND LIGHTING.
- INSTALL (18) (9) SPRINT RACKS.
- INSTALL (9) SPRINT EQUIPMENT CABINETS.

PROJECT DESCRIPTION

APPLICANT:
SPRINT PCS
210 COMMERCE
IRVING, CALIFORNIA 92602
CONTACT: T80

PROPERTY OWNER:
OAKLAND-ALAMEDA COUNTY COLISEUM AUTHORITY
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94612

ZONING CLASSIFICATION: C-38
CALIFORNIA BUILDING CODE, 2010 EDITION
EXISTING CONSTRUCTION TYPE: TYPE I
PROPOSED CONSTRUCTION TYPE: TYPE I
EXISTING OCCUPANCY: U
PROPOSED OCCUPANCY: U
JURISDICTION: ALAMEDA COUNTY
EXISTING USE: TELECOMMUNICATIONS
PROPOSED USE: TELECOMMUNICATIONS

PARCEL NUMBER:
041-3961-008

LEASE AREA:
353 SQUARE FEET

PROJECT SUMMARY

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	SPECIFICATIONS AND NOTES
T-3	SIGNAGE
A-1	OVERALL SITE PLAN
A-2	ENLARGED SITE PLAN
A-3	EQUIPMENT PLAN & DETAILS
A-4	ELEVATIONS
A-5	SITE SECTION
A-6	EQUIPMENT DETAILS
A-7	EQUIPMENT DETAILS
A-8	BLOCK WALL DETAILS
A-9	DETAILS
A-10	DETAILS
A-11	CONDUIT PENETRATION DETAILS
E-1	ELECTRICAL SITE PLAN, CONTACTS & DETAILS
E-2	SINGLE LINE DIAGRAM, PANEL SCHEDULE & DETAILS
E-3	GROUNDING PLAN AND DETAILS

SHEET INDEX

PROJECT ARCHITECT
JEFFREY ROME & ASSOCIATES
1 SAN JOAQUIN PLAZA
SUITE 250
NEWPORT BEACH, CALIFORNIA 92640
CONTACT: JEFFREY ROME
PHONE: (949) 780-3929
EMAIL: J.ROME@JRA.COM

STRUCTURAL ENGINEER
ZALZAL & ASSOCIATES

PROJECT MANAGER
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6300 WEST LA MAHORE
LAS VEGAS, NEVADA 89130
CONTACT: DAN DAVIS
PHONE: (702) 202-4111
EMAIL: DAN.DAVIS@CORTEL-LLC.COM

CONSTRUCTION COORDINATOR:
CORTEL, LLC
6300 WEST LA MAHORE
LAS VEGAS, NEVADA 89130
CONTACT: MIKE MANN
PHONE: (702) 813-3143
EMAIL: MIKE.MANN@CORTEL-LLC.COM

PLANNING COORDINATOR
CORTEL, LLC
6300 WEST LA MAHORE
LAS VEGAS, NEVADA 89130
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WORKLE: (415) 801-3194
EMAIL: ALEX.ORNER@CORTEL-LLC.COM

ELECTRICAL ENGINEER
EDS ENGINEERING
CONTACT: BOB CASTRO
PHONE: (714) 350-7088

TELCO COMPANY:
T80

POWER COMPANY:
PGE
CONTACT: T80
PHONE: T80

PROJECT TEAM

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"x17" OR 22"x34" FORMAT. IF THIS DRAWING SET IS NOT 11"x17" OR 22"x34", THIS SET IS NOT TO SCALE.

DRAWING SCALE

CORTEL COMMUNICATIONS
6300 West La Mahore
Las Vegas, Nevada 89130

JRA
Jeffrey Rome & Associates, Inc.
Architectural & Telecommunications
1 San Joaquin Plaza, Suite 250
Newport Beach, California 92640
Phone: (949) 780-3929
Fax: (949) 780-3931

PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SF96XC003
ORACLE ARENA SF96XC004

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

POSTED DATE:
05/09/13

POSTED FOR:
CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	05/01/13	FOR CD REVIEW (P3-B1)	JH
2	04/02/13	FOR CD REVIEW (P3-G2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW

NOT FOR CONSTRUCTION UNLESS LABELLED AS CONSTRUCTION SET

LICENSE:

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: T-1 REVISION: 3

JRA JOB NUMBER: 12319

GENERAL GUIDELINES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.

- ROOFING & WATERPROOFING NOTES
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.

PAINTING NOTES & SPECIFICATIONS

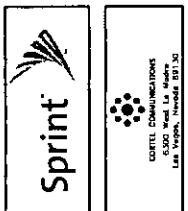
- 1. GENERAL
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.

- 2. PAINTING NOTES & SPECIFICATIONS
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.

STRUCTURAL SPECIFICATIONS

- A. GENERAL
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.

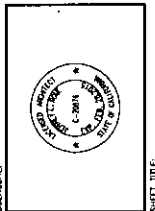
- 3. STRUCTURAL SPECIFICATIONS
1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS, LICENSES, AND APPROVALS FROM THE CITY OF DENVER AND THE STATE OF COLORADO.



SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
DANCAO CONCRETE SPECIALTIES
DANCAO CONCRETE SPECIALTIES

ISSUED DATE: 05/08/13
FORMED FOR: CLIENT COMMENTS

Table with 2 columns: REVISIONS, DATE, DESCRIPTION. Contains 4 revision entries.



SPECIFICATIONS AND NOTES
SHEET NUMBER: T-2

BATTERY INFORMATION/ NOTES:

BATTERY MFG	EAST PEAK MANUFACTURING	A QUANTITIES OF 50 GALLONS OR LESS ARE EXEMPT PER TABLE 3-E OF THE 2010 C.F.C.
MODEL NUMBER	12AVR-145L	B SINGLE VESSEL CAPACITIES OF 10 GALLONS OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GALLONS ARE EXEMPT PER ARTICLE 64 OF THE 2010 C.F.C.
ELECTROLYTE CONTENT PER BATTERY:	2.17 GALLONS	C QUANTITIES LESS THAN 50 GALLONS ARE EXEMPT FROM C.F.C. ARTICLE 80, AND SHALL NOT REQUIRE REMIT.
ELECTROLYTE HAZARD CLASSIFICATION PER '07 C.F.C. (8.7% SULFURIC ACID)	CORROSIVE	D ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 64 AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50.
NUMBER OF BATTERIES TO BE INSTALLED	40 MAX (20 PER CABINET)	
TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 x 20):	43.4 GALLONS MAX	

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
- A EFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:
 - CLASS 1 WATER REACTIVE LIQUID
 - TOXIC LIQUID
 - CORROSIVE LIQUID
 - OTHER HEALTH HAZARD LIQUID

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARD LIQUID

- AN APPROVED METHOD TO NEUTRALIZE SUPPLIED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE INSPECTOR.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING 11. IS ADDRESSED ON
- REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH, IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- REQUIRED SIGNAGE SHALL INCLUDE BUT MAY NOT BE LIMITED TO, APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN; SEE DETAILS 1, 2, AND 3.



REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
— CALL —
1-866-400-6040
SITE NUMBER: SF96XC003
SITE NAME: OAKLAND-COLISEUM

EMERGENCY CONTACT SIGNAGE

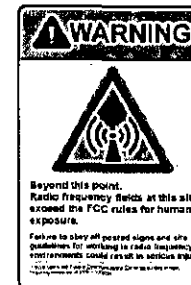
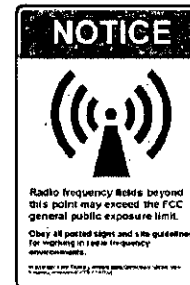
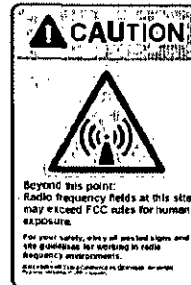
SITE IDENTIFICATION SIGNAGE

3



HAZARDOUS MATERIAL SIGNAGE

2



SITE IDENTIFICATION SIGNAGE

4

RF SIGNAGE

1



CORTEL COMMUNICATIONS
5300 West Las Vegas
Las Vegas, Nevada 89130

JRA
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Architecture & Telecommunications
1 San Jacinto Plaza, Suite 250
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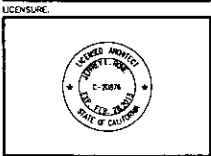
PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SF96XC003
ORACLE ARENA SF96XC004
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS			
REV.	DATE	DESCRIPTION	INT.
1	03/01/13	BOX CD REVIEW (P3-B1)	JH
2	04/02/13	DOCK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WR
4	05/09/13	CLIENT COMMENTS (P3-B4)	WR

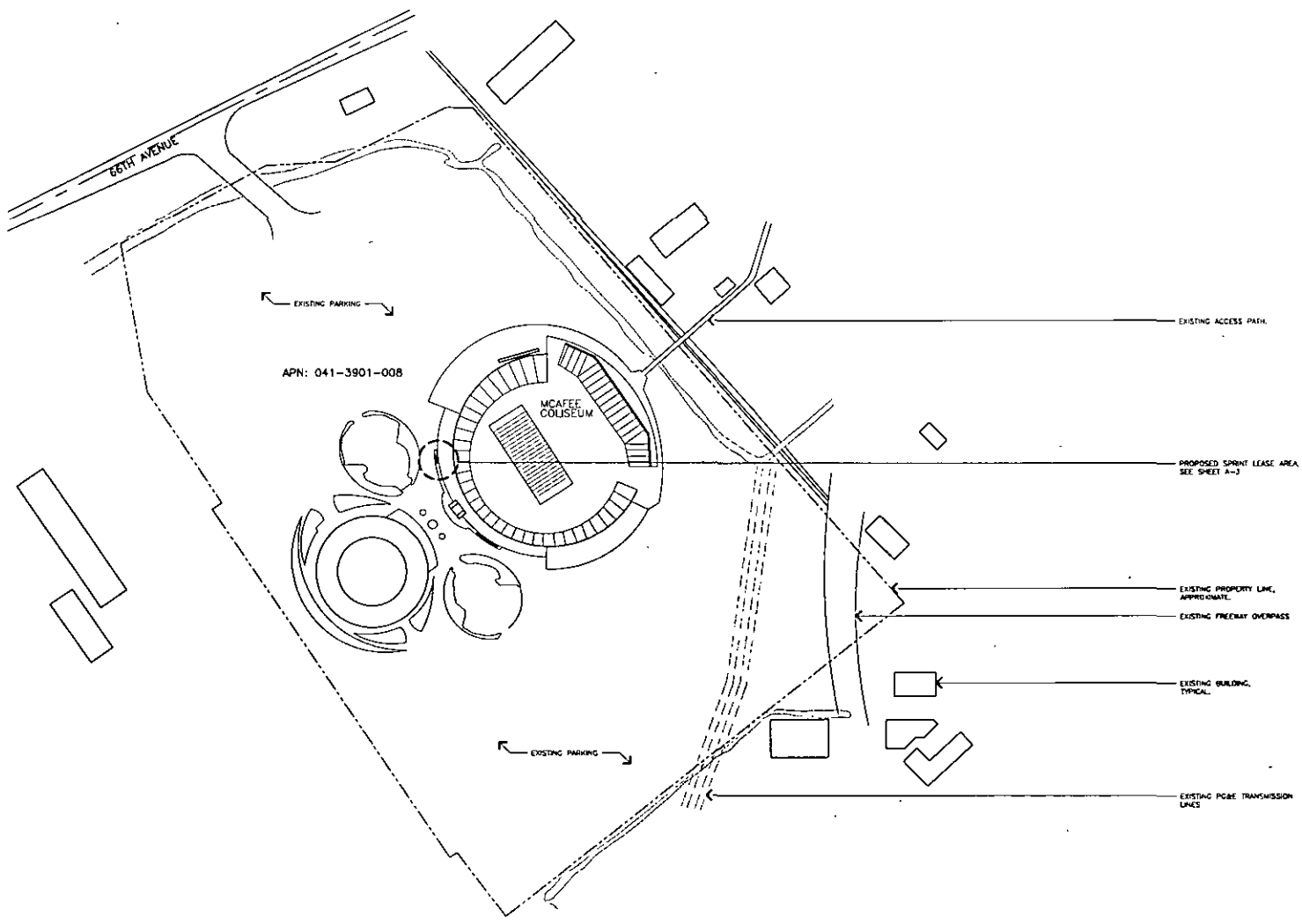
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
SIGNAGE AND NOTES

SHEET NUMBER: T-3
REVISION: 3

DATE PLOTTED: 05/09/13 12:18



CORTEL COMMUNICATIONS
 8300 West Le Monde
 Las Vegas, Nevada 89130

JRA
 Jeffrey Rome & Associates, Inc.
 Architects & Telecommunications
 1 San Joaquin Plaza, Suite 200
 Newport Beach, California 92660
 Phone (949) 790-3921
 Fax (949) 790-3931

PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SF86X0003
 ORACLE ARENA SF86X0004
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

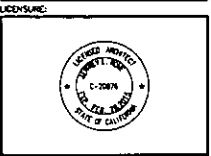
ISSUED DATE:
 05/09/13

ISSUED FOR:
 CLIENT COMMENTS

REVISIONS

REV	DATE	DESCRIPTION	INT
1	03/01/13	WORK CD REVIEW (P3-B1)	JH
2	04/02/13	BOOK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS(P3-B3)	WH
4	05/09/13	CLIENT COMMENTS(P3-B4)	WH

NOT FOR CONSTRUCTION UNLESS LABELLED AS CONSTRUCTION SET



SHEET TITLE:
OVERALL SITE PLAN

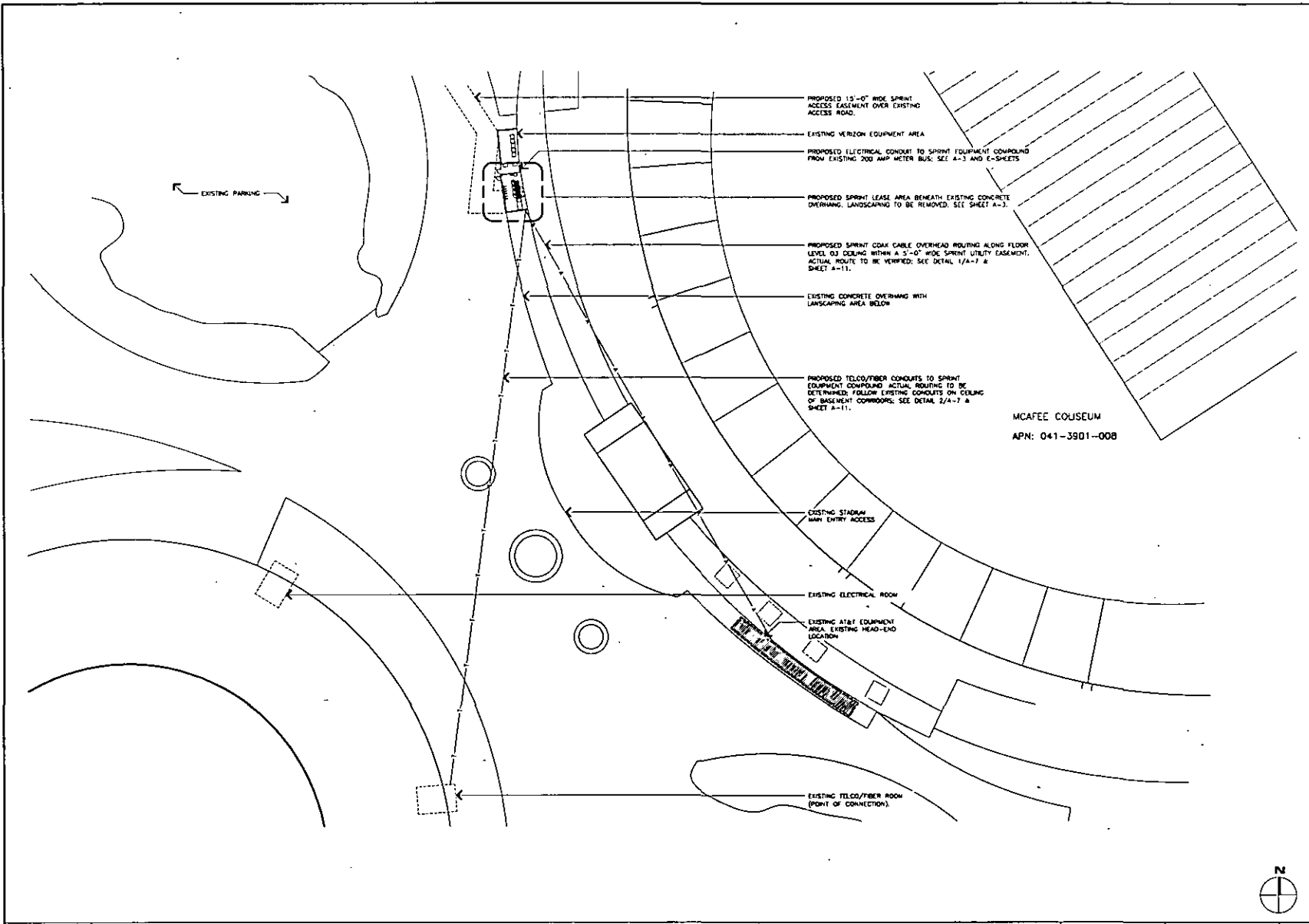
SHEET NUMBER: **A-1** REVISION: **3**

OVERALL SITE PLAN

11x17 SCALE: 1"=400'
 22x34 SCALE: 1"=200'



JRA JOB NUMBER: 12148



ENLARGED SITE PLAN

11x17 SCALE: 1"=60'
 24x36 SCALE: 1"=30'
 0 15' 30' 60'

1



CORTL COMMUNICATIONS
 6300 West La Madre
 Las Vegas, Nevada 89130

JRA
 Jeffrey Roma Associates, Inc.
 Architecture & Telecommunications
 1 San Joaquin Plaza, Suite 200
 Newport Beach, California 92660
 Phone: (407) 760-3929
 Fax: (407) 760-3331

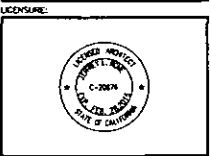
PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SF96X0003
 ORACLE ARENA SF96X0004
 3000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

ISSUED DATE:
 05/09/13

ISSUED FOR:
 CLIENT COMMENTS

REVISIONS			
REV.	DATE	DESCRIPTION	INT.
1	03/01/13	NOI CD REVIEW (P3-B1)	JH
2	04/02/13	NOI CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	HW
4	05/09/13	CLIENT COMMENTS (P3-B4)	HW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET







SHEET TITLE:
 ENLARGED SITE PLAN

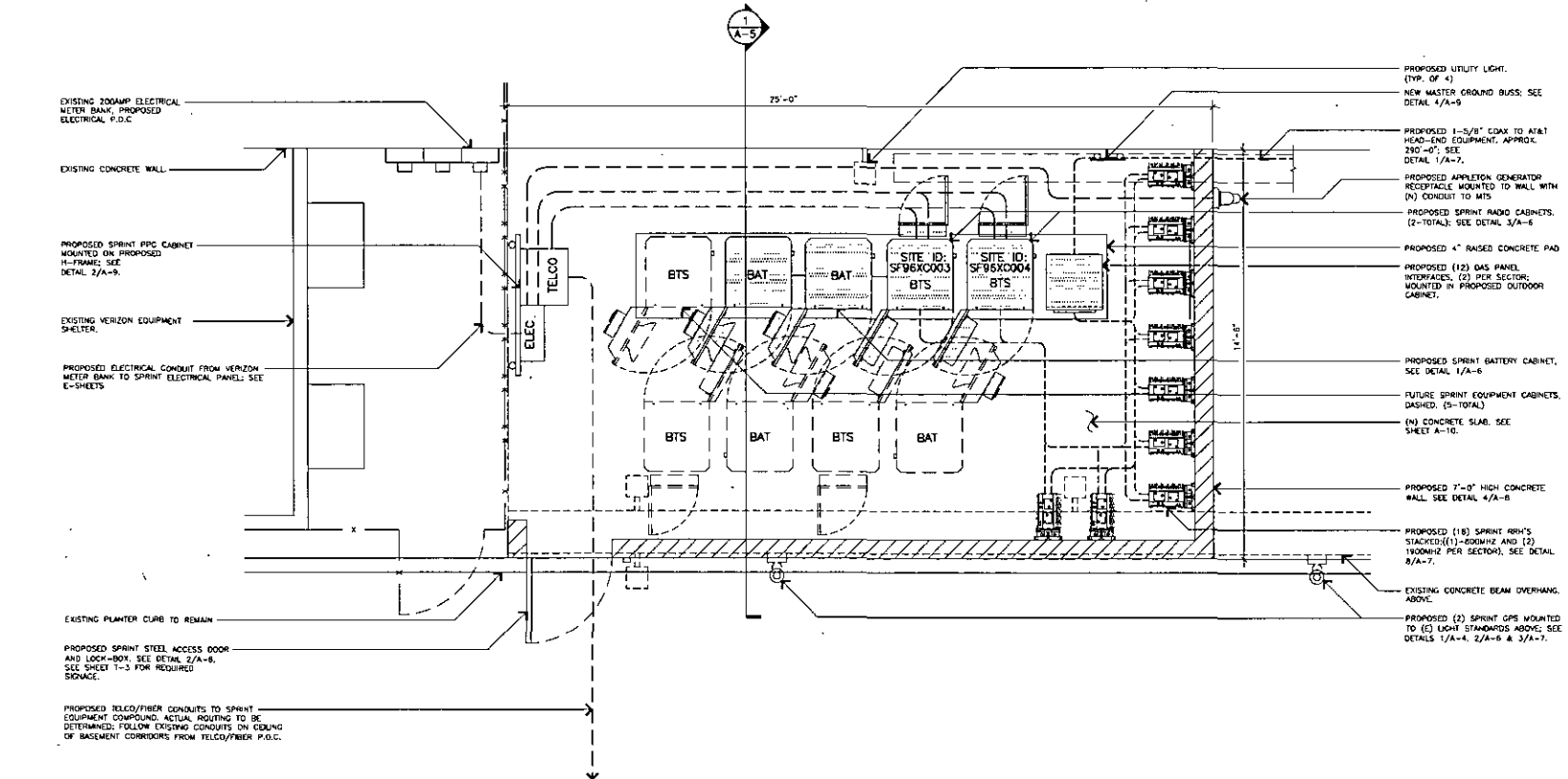
SHEET NUMBER: REVISION:

A-2 3

JRA, JRA ASSOCIATES 12/1/14

EQUIPMENT PLAN SYMBOL LEGEND

-  PROPOSED SPRINT BTS CABINET.
-  PROPOSED SPRINT BATTERY CABINET.
-  PROPOSED FIBER AND DC DISTRIBUTION BOX.
-  PROPOSED FIBER AND DC CONDUIT.



- PROPOSED UTILITY LIGHT. (TYP. OF 4)
- NEW MASTER GROUND BUSS; SEE DETAIL 4/A-9
- PROPOSED 1-1/2" COAX TO AT&T HEAD-END EQUIPMENT, APPROX. 250'-0"; SEE DETAIL 1/A-7.
- PROPOSED APPLETON GENERATOR RECEPTACLE MOUNTED TO WALL WITH (N) CONDUIT TO MTS
- PROPOSED SPRINT RADIO CABINETS. (2-TOTAL); SEE DETAIL 3/A-6
- PROPOSED 4" RAISED CONCRETE PAD
- PROPOSED (12) GAS PANEL INTERFACES. (2) PER SECTOR; MOUNTED IN PROPOSED OUTDOOR CABINET.
- PROPOSED SPRINT BATTERY CABINET. SEE DETAIL 1/A-6
- FUTURE SPRINT EQUIPMENT CABINETS. DASHED. (5-TOTAL)
- (N) CONCRETE SLAB. SEE SHEET A-10.
- PROPOSED 7'-0" HIGH CONCRETE WALL. SEE DETAIL 4/A-8
- PROPOSED (18) SPRINT RRH'S STACKED (1)-ROOF/2 AND (2) 1900MHZ PER SECTOR); SEE DETAIL 8/A-7.
- EXISTING CONCRETE BEAM OVERHANG. ABOVE.
- PROPOSED (2) SPRINT GPS MOUNTED TO (E) LIGHT STANDARDS ABOVE; SEE DETAILS 1/A-4, 2/A-6 & 3/A-7.

- EXISTING 200AMP ELECTRICAL METER BANK, PROPOSED ELECTRICAL P.O.C.
- EXISTING CONCRETE WALL.
- PROPOSED SPRINT PPC CABINET MOUNTED ON PROPOSED H-FRAME; SEE DETAIL 2/A-9.
- EXISTING VERIZON EQUIPMENT SHELTER.
- PROPOSED ELECTRICAL CONDUIT FROM VERIZON METER BANK TO SPRINT ELECTRICAL PANEL; SEE E-SHEETS.
- EXISTING PLANTER CURB TO REMAIN
- PROPOSED SPRINT STEEL ACCESS DOOR AND LOCK-BOX. SEE DETAIL 2/A-6. SEE SHEET T-3 FOR REQUIRED STORAGE.
- PROPOSED TELECO/FIBER CONDUITS TO SPRINT EQUIPMENT COMPOUND. ACTUAL ROUTING TO BE DETERMINED. FOLLOW EXISTING CONDUITS ON CEILING OF BASEMENT CORRIDORS FROM TELECO/FIBER P.O.C.



PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SF98X0003
OAKLAND ARENA SF98X0004

7100 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

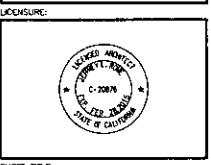
ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REVISIONS

REV.	DATE	DESCRIPTION	INT.
1	05/07/13	BOOK CD REVIEW (P3-B1)	JH
2	04/02/13	BOOK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE: EQUIPMENT PLAN

SHEET NUMBER: A-3 REVISION: 3

PROPOSED EQUIPMENT PLAN

11X17 SCALE: 1/4"=1'-0"
22X34 SCALE: 1/2"=1'-0"



JRA JOB NUMBER: 123148



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 6300 West La Madre
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 Newport Beach, California 92660
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PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SP18AC003
 ORACLE ARENA SP18AC004
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

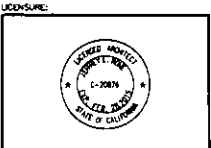
ISSUED DATE:
 05/09/13

ISSUED FOR:
 CLIENT COMMENTS

REVISIONS

REV.	DATE	DESCRIPTION	INT.
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2	04/02/13	FOR CD REVIEW (P3-82)	JH
3	04/30/13	CLIENT COMMENTS (P3-83)	WH
4	05/09/13	CLIENT COMMENTS (P3-84)	WH

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



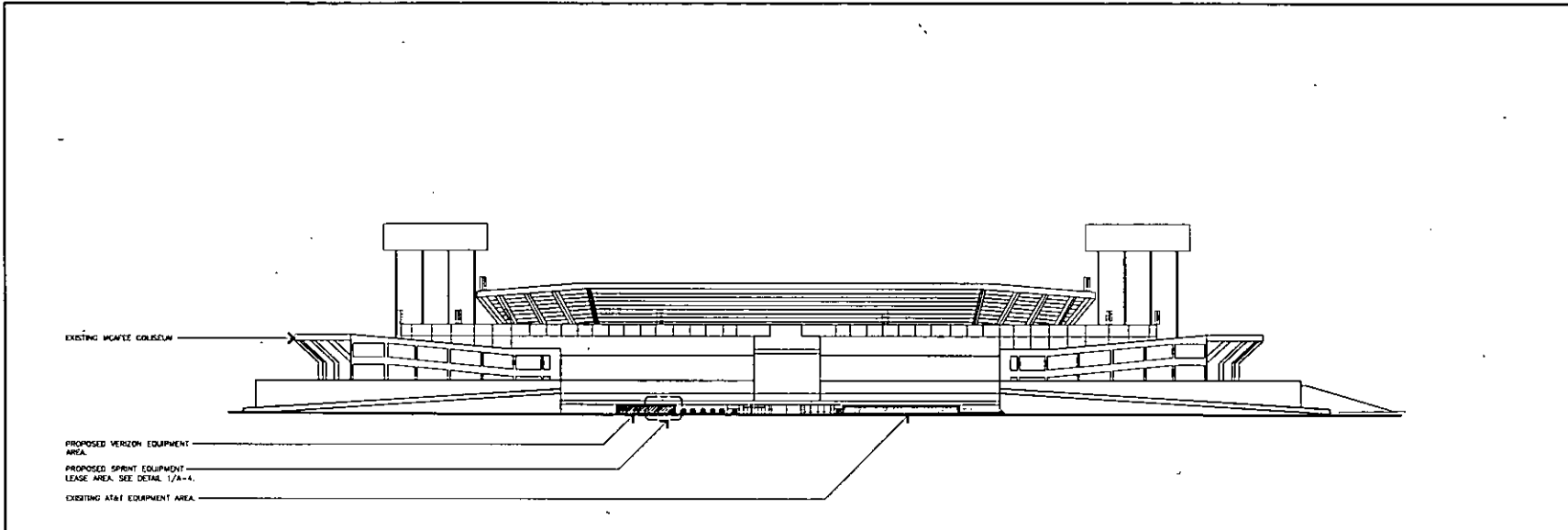
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ELEVATIONS

SHEET NUMBER: REVISION

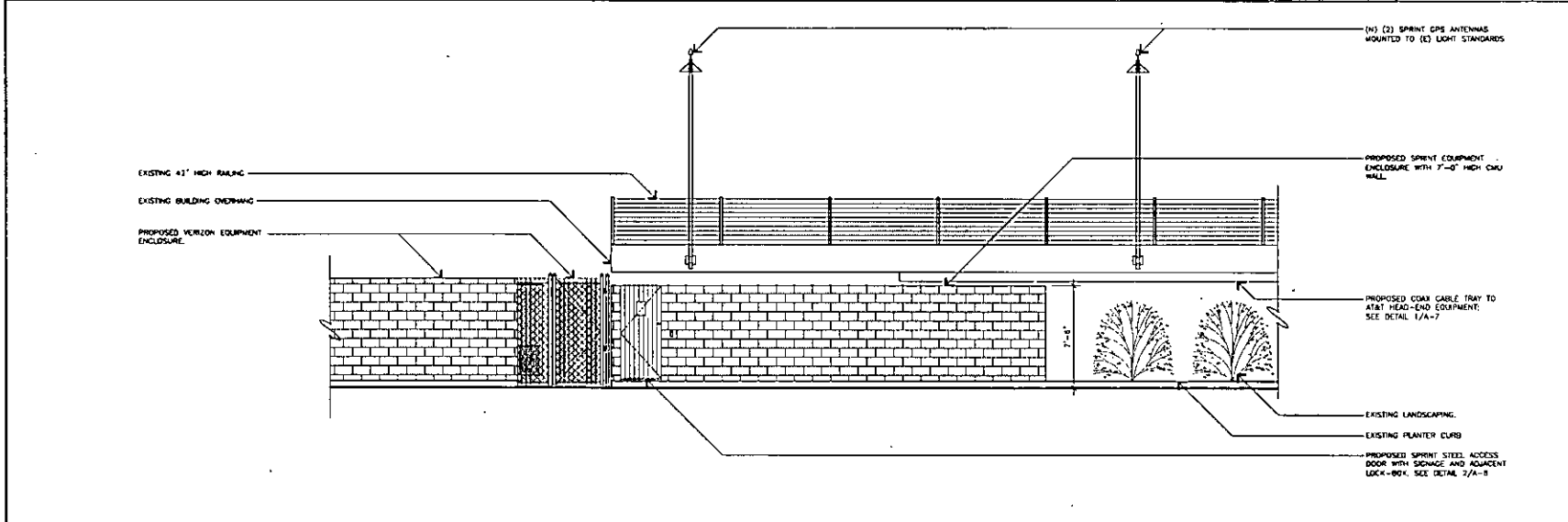
A-4 **3**

JRA JOB NUMBER: 12114



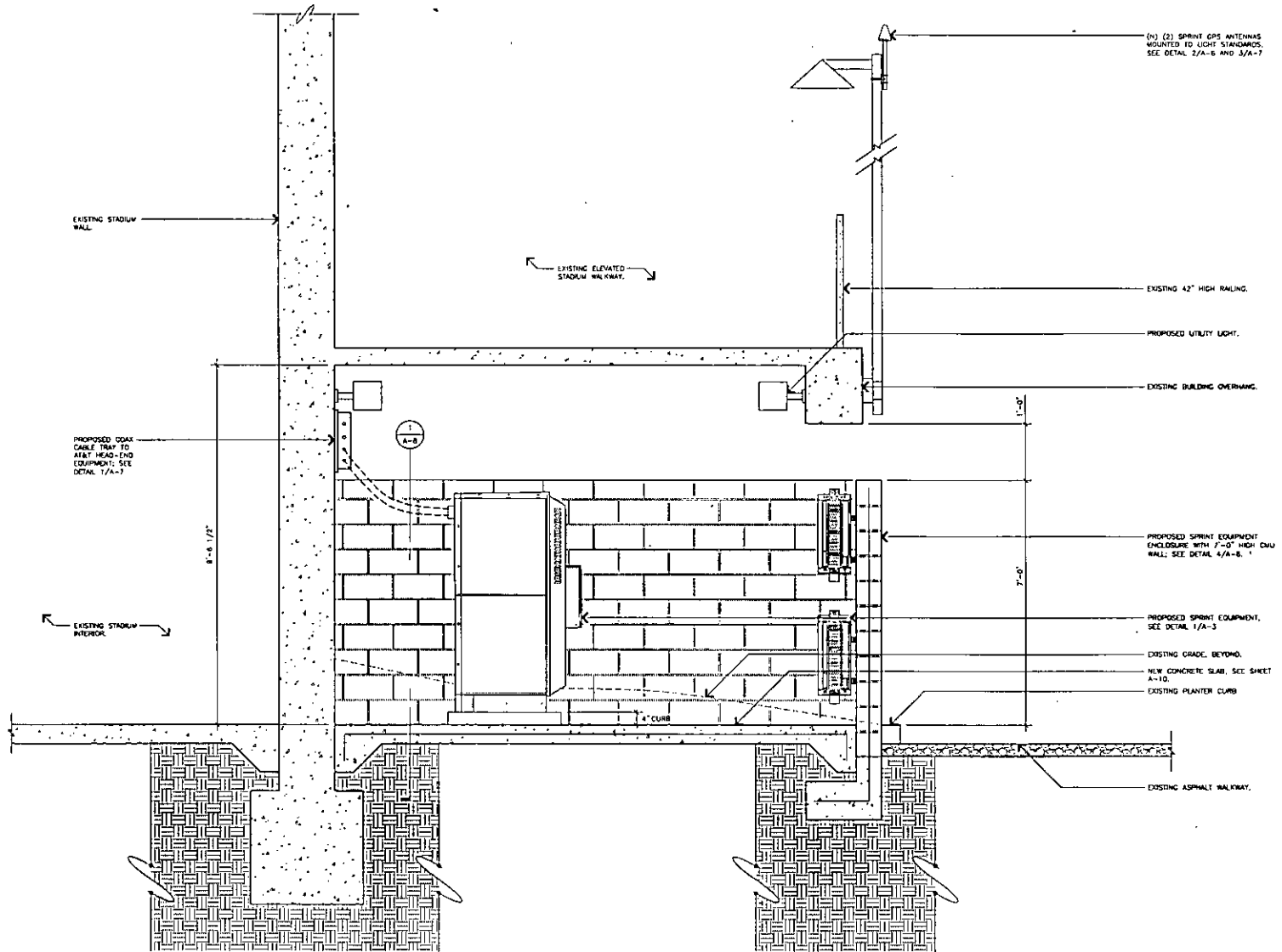
SOUTHWEST ELEVATION

11x17 SCALE: 1"=100'
 24x36 SCALE: 1"=50' 0 25' 50' 100' **2**



ENLARGED SOUTHWEST ELEVATION

11x17 SCALE: 1/8"=1'-0"
 24x36 SCALE: 1/4"=1'-0" 0 2' 4' 8' **1**



(N) (2) SPRINT GPS ANTENNAS MOUNTED TO LIGHT STANDARDS, SEE DETAIL 2/A-6 AND 3/A-7

EXISTING STADIUM WALL

EXISTING ELEVATED STADIUM WALKWAY

PROPOSED COAX CABLE TRAY TO A&T HEAD-END EQUIPMENT; SEE DETAIL 1/A-7

EXISTING STADIUM INTERIOR

EXISTING 42" HIGH RAILING

PROPOSED UTILITY LIGHT

EXISTING BUILDING OVERHANG

PROPOSED SPRINT EQUIPMENT ENCLOSURE WITH 7'-0" HIGH CURB WALL; SEE DETAIL 4/A-8, 1

PROPOSED SPRINT EQUIPMENT, SEE DETAIL 1/A-3

EXISTING GRADE, BEYOND
NEW CONCRETE SLAB, SEE SHEET A-10
EXISTING PLANTER CURB

EXISTING ASPHALT WALKWAY

SITE SECTION

11x17 SCALE: 3/8"=1'-0"
24x36 SCALE: 3/4"=1'-0"
0 0.5' 1' 2' 3'



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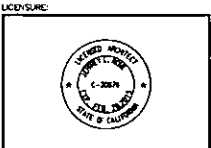
PROJECT INFORMATION:
SPRINT OAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SP98XC003
ORACLE ARENA SP98XC004
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS			
REV.	DATE	DESCRIPTION	INT.
1	03/01/13	POOR CD REVIEW (P3-B1)	JH
2	04/02/13	POOR CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WH
4	05/09/13	CLIENT COMMENTS (P3-B4)	WH

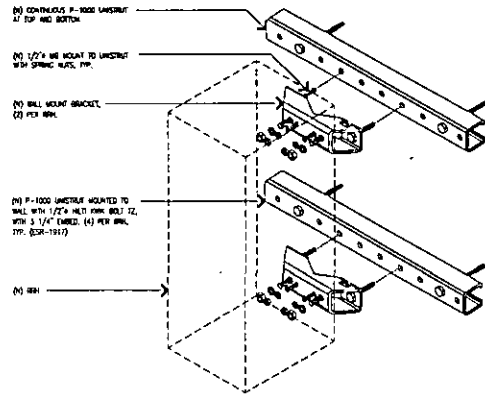
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
SITE SECTION

SHEET NUMBER: A-5
REVISION: 3

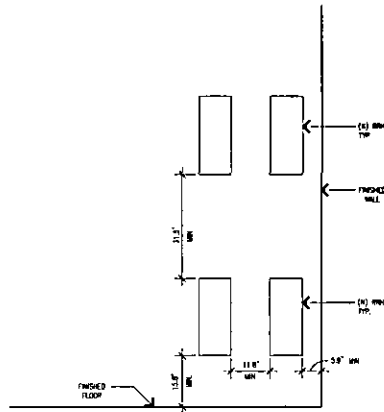
JOB NUMBER: 12314



SEE DETAILS 5 & 6/A-7 AND 7/A-7 FOR ADDITIONAL INFO.

RRH MOUNT

SCALE: NONE **8**

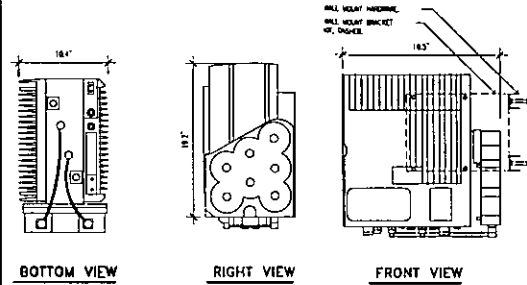


RRH SPACING

SCALE: NONE **7**

800 MHz RRH

MODEL: 800 MHz
WEIGHT: 69 LBS

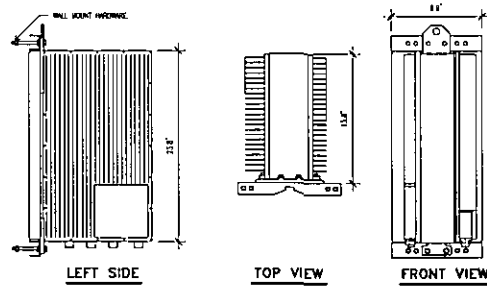


800 MHz RRU SPECIFICATIONS

SCALE: NONE **6**

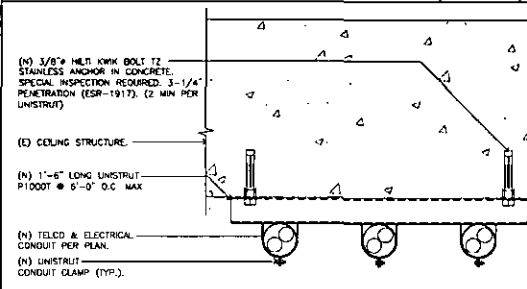
1900 MHz RRH

MODEL: 1900 MHz
WEIGHT: 60 LBS



1900 MHz RRU SPECIFICATIONS

SCALE: NONE **5**

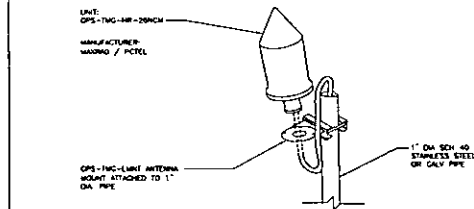


NOTES:

1. CONTRACTOR TO PRAY SLAB PRIOR TO DRILLING
2. DO NOT CUT ANY STEEL OR CABLES.
3. PAINT TO MATCH (E) CEILING

CEILING MOUNTED CONDUITS

SCALE: NONE **4**

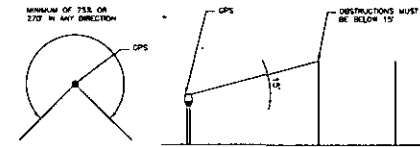


NOTES:

1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1" DIAMETER, SCHEDULE 40, GALVANIZED STEEL OR STAINLESS STEEL PIPE. THE PIPE MUST NOT BE THREADED AT THE ANTENNA MOUNT END. THE PIPE SHALL BE CUT TO THE REQUIRED LENGTH (MINIMUM OF 18 INCHES, 6"-10" IF MOUNTING TO PROPOSED WIND-BREAK) USING A HAND OR PORTABLE PIPE CUTTER TO ASSURE A SQUARE AND PERPENDICULAR CUT. A HAND SAW SHALL NOT BE USED. THE CUT PIPE END SHALL BE DEBURRED.
2. IT IS CRITICAL THAT THE GPS ANTENNA IS MOUNTED SUCH THAT IT IS WITHIN 2 DEGREES OF VERTICAL AND THE BASE OF THE ANTENNA IS WITHIN 2 DEGREES OF LEVEL.
3. GPS TO BE MOUNTED A MINIMUM OF 2'-0" ABOVE PROPOSED WINDS CABINET.
4. SEE DETAIL 2/A-7 FOR MORE INFORMATION.

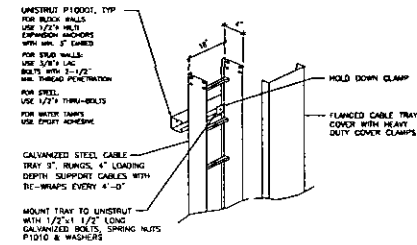
GPS UNIT

SCALE: NONE **3**



GPS MINIMUM SKY VIEW REQUIREMENT

SCALE: NONE **2**



- NOTES:**
1. CABLE TRAYS SHALL BE FREE OF SHARP OBJECTS AND BURRS WHICH COULD INJURE CABLES. COVERS SHALL BE FASTENED USING HOLD DOWN CLIPS. SHEET METAL SCREWS NOT ACCEPTABLE FOR COVERS

VERTICAL/ HORIZONTAL CABLE TRAY

SCALE: NONE **1**



PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SP8X0003
ORACLE ARENA SP8X0004

1000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	MOD. CD REVIEW (P3-61)	JH
2	04/02/13	MOD. CD REVIEW (P3-62)	JH
3	04/30/13	CLIENT COMMENTS (P3-63)	WH
4	05/09/13	CLIENT COMMENTS (P3-64)	WH

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SHEET TITLE: ANTENNA, RRU, AND FILTER DETAILS

SHEET NUMBER: A-7 REVISION: 3

JUL 2009 10:02:22 AM

GENERAL

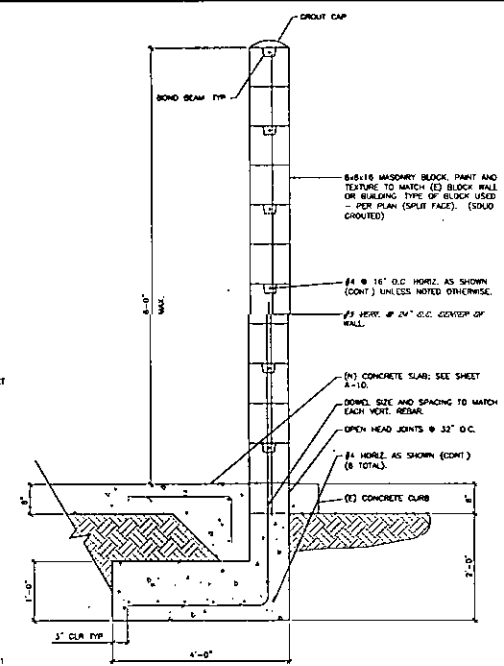
- CONTRACTOR SHALL VISIT THE BUILDING SITE AND SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK AND MATERIALS, INCLUDING THOSE FURNISHED BY THE SUB-CONTRACTORS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES FOUND.
- TYPICAL DETAILS SHALL APPLY WHERE NO SPECIAL DETAIL IS SHOWN.
- ALL DIMENSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO PROVIDED.
- CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE TEMPORARY PROTECTION BRACING ON ALL ELEMENTS INCLUDING PROPOSED CONSTRUCTION & SOIL. PROVIDE FULL STRUCTURAL STABILITY. BRACING OR SHORING SHALL NOT BE REMOVED UNTIL THE ELEMENT SUPPORTED IS CAPABLE OF SUPPORTING ITS DESIGN LOAD.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CALIFORNIA BUILDING CODE AND ALL LOCAL CODE REQUIREMENTS.
- IF ANY CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
- REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR HOLES, ORNAMENTS, GROOVES, CLIPS, ORNLADS, DROPPED SLABS, CURBS, ETC NOT SHOWN ON DRAWINGS.
- BACKLIFT BEHIND RETAINING WALL SHALL NOT BE DONE PRIOR TO THE RETAINING WALL STEMS' DRAINING IS CURED.

REINFORCING STEEL

ALL REINFORCING STEEL SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A-618 GRADE 60.

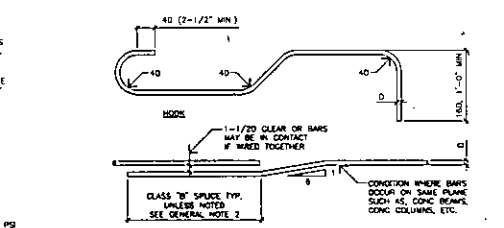
CONCRETE (ALL EQUIPMENT SCHEDULE)

- ALL POURING-IN-PLACE CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 2,500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED. CEMENT TO BE TYPE II FROM TESTED STOCK PER ASTM C-150.
- CONCRETE FLOW TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
- ALL REINFORCING STEEL ANDER BOLT, DOWELS AND OTHER INSERTS SHALL BE SECURED IN POSITION AND PROTECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
- NO PIPES OR CURBS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS, FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4" HIGH CHAMFERS UNLESS DETAILED OTHERWISE.
- PROMOTE LEAN FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.



CONCRETE BLOCK MASONRY

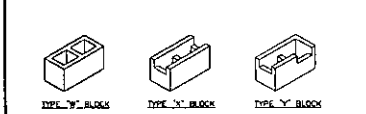
- MASONRY UNITS FOR HOLLOW UNIT MASONRY SHALL BE GRADE "N" CONCRETE BLOCKS CONFORMING TO ASTM C-90. CONSTRUCTION SHALL COMPLY WITH 2010 CBC AND LOCAL CODES.
- MASONRY SHALL BE Laid IN STRAIGHT UNIFORM COURSES IN RUNNING BOND. JOINTS SHALL BE TIED CORNER AND BE UNIFORM IN SIZE. THE INTERSECTING WALLS BY OVERLAPPING UNITS IN ALTERNATE COURSES. ROUGHEN OR CLEAN CONCRETE BEARING SURFACES FOR THE PLACEMENT OF THE FIRST COURSE. VERTICAL HEAD JOINTS SHALL BE FILLED SOLID AND SHOVED TIGHTLY TO PROMOTE BOND TO BOTH BLOCKS.
- MORTAR SHALL BE FRESHLY PREPARED AND UNIFORM MIXED OF 1 PART PORTLAND CEMENT, 1/2 PART SAND TO 1/4 PART MINIMUM PARTS LIME PUTTY OR HYDRATED LIME, AND 3 PARTS SAND.
- GROUT SHALL BE FLUID CONSISTENCY AND MIXED IN RATIO OF 1 PART CEMENT AND 3 PARTS SAND FOR GROUT SPACES LESS THAN 4" IN ANY DIRECTION. FOR SPACES GREATER THAN 4" THE RATIO IS TO BE 1 PART CEMENT, 2 PARTS SAND AND 2 PARTS FINE GRAVEL AGGREGATE AND SAND SHALL CONFORM TO ASTM C-144 SOLID GROUT ALL CELLS.
- USE CARE TO PREVENT MORTAR AND GROUT SPALLAGE ON THE FACE OF THE MASONRY. CLEAN SUCH SPALLAGE IMMEDIATELY. REPAIR ANY DAMAGES OF INTERSECTS BETWEEN BLOCK AND REMOVE STAINS AT THE COMPLETION OF WORK.
- SPlice ALL BARS IN MASONRY WITH A MINIMUM OF 48 BAR DIAMETER LAPS (2'-0" MINIMUM).
- ALL ISOLATED BELTS OR ENDS IN MASONRY SHALL BE DROUGHT SOLIDLY IN PLACE WITH NOT LESS THAN 2" OF GROUT SURROUNDING THE BELT.
- SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF ENGINEER'S 502 ASPHALTIC MASTIC.



CONSTRUCTION MATERIALS SPECIFICATIONS

- ALL CONCRETE AND GROUT SHALL BE MIN. $f_c = 2500$ PSI.
- CONC. BLOCK SHALL BE MIN. $f_m = 1500$ PSI @ 28 DAYS.
- ALL STEEL SHALL BE GRADE 60. $f_y = 60,000$ PSI. $f_u = 74,000$ PSI.
- MORTAR STRENGTH AND TYPE PER CBC TABLE 2105A.2.2.1.2

NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (PSI)		NET AREA COMPRESSIVE STRENGTH OF MASONRY (PSI)
TYPE M OR S MORTAR	TYPE N MORTAR	
1,250	1,300	1,000
1,800	2,150	1,300
2,800	3,050	2,000
3,750	4,050	2,500
4,800	5,250	3,000

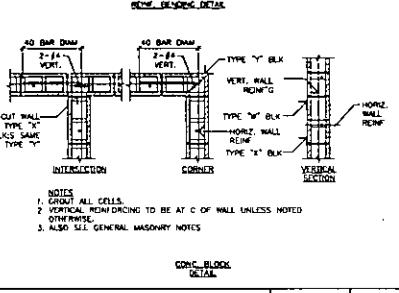


CONC. BLOCK DETAIL

SCALE: NONE

4

BLOCK WALL DETAILS AND NOTES



DOWEL DETAIL

SCALE: NONE

4

BLOCK WALL END/OPENING

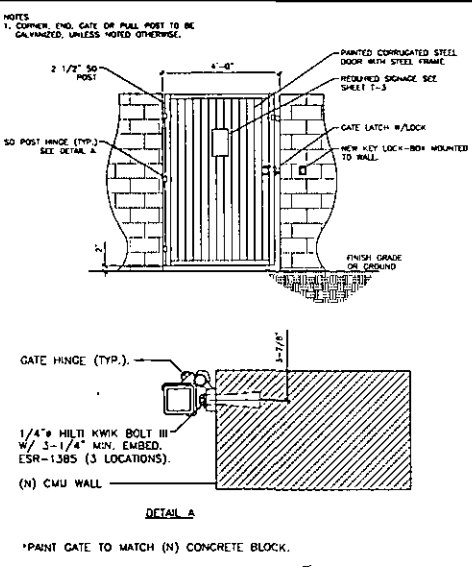
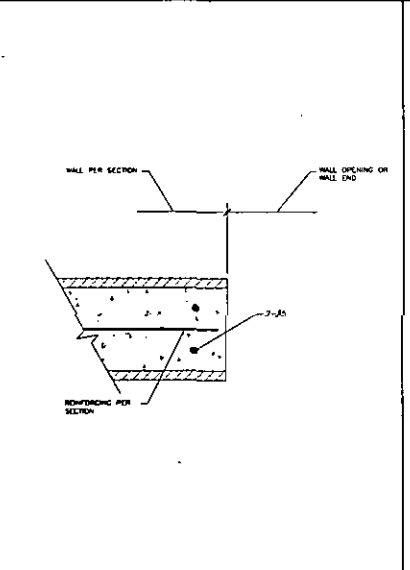
SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2



BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2

BLOCK WALL END/OPENING

SCALE: NONE

3

STEEL GATE DETAIL

SCALE: NONE

2



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PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SP78AC003
ORACLE ARENA SP78AC004

2008 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REVISIONS				
REV.	DATE	DESCRIPTION	INT.	BY
1	03/01/13	BOX CD REVIEW (P3-B1)	JH	
2	04/02/13	TOOT CD REVIEW (P3-B2)	JH	
3	04/30/13	CLIENT COMMENTS (P3-B3)	JH	
4	05/09/13	CLIENT COMMENTS (P3-B4)	MM	

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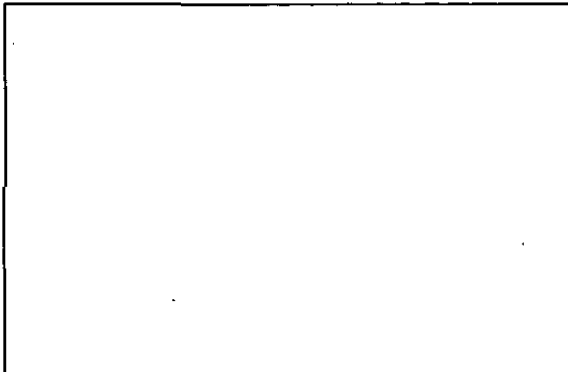


SHEET TITLE: DETAILS

SHEET NUMBER: A-8

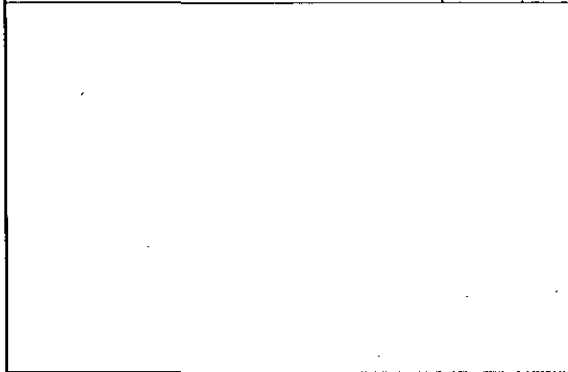
REVISION: 3

JRA JOB NUMBER: 122148



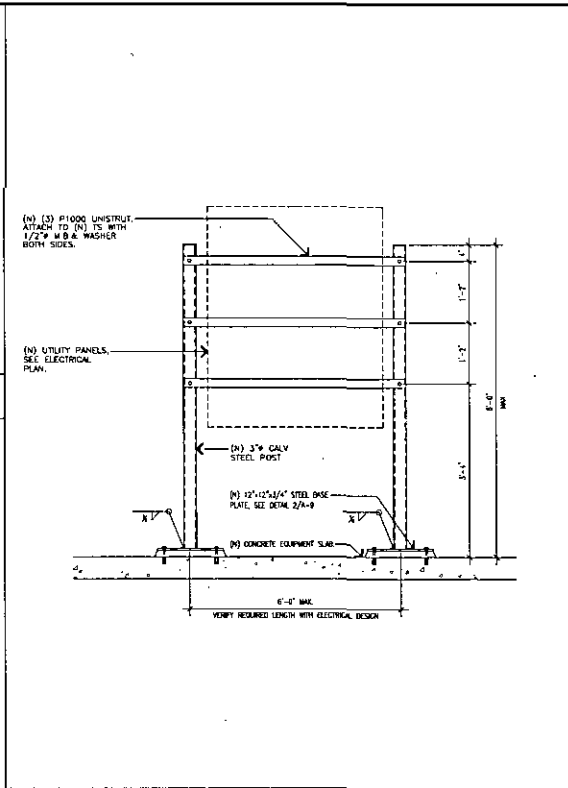
NOT USED

SCALE: NONE 6



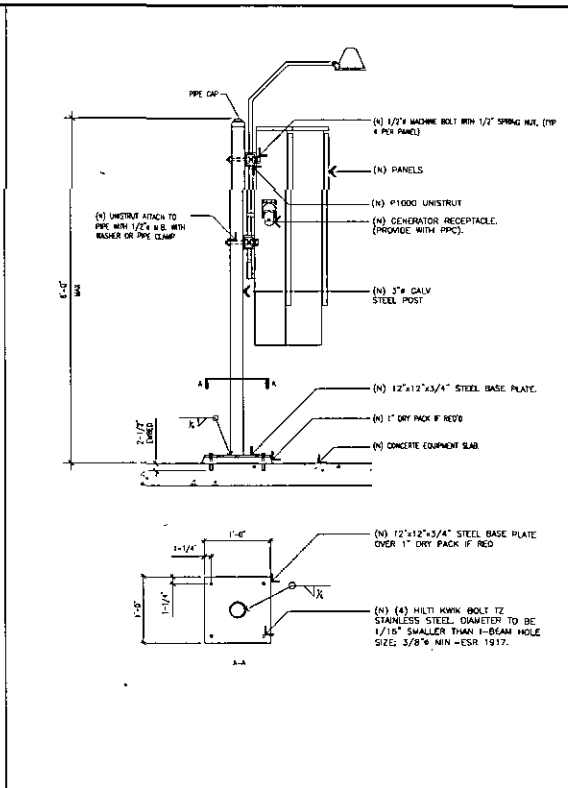
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SCALE: NONE 5



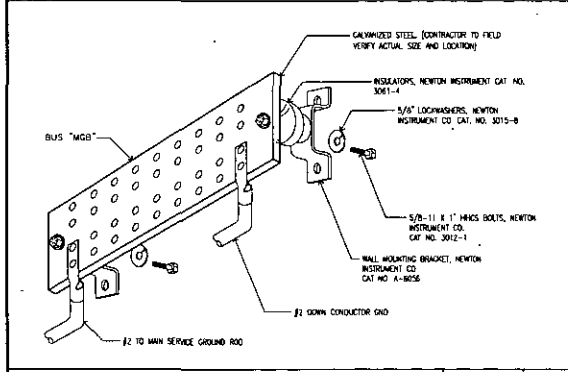
H-FRAME UTILITY RACK

SCALE: NONE 3



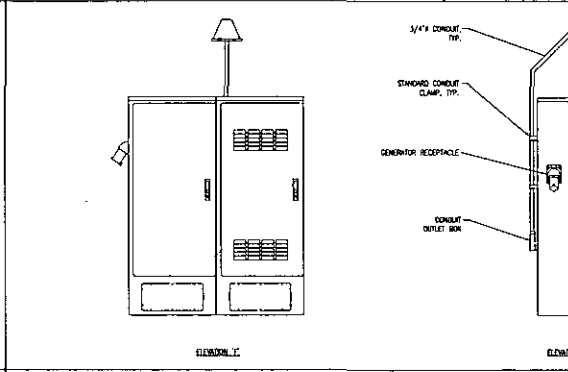
H-FRAME MOUNT

SCALE: NONE 2



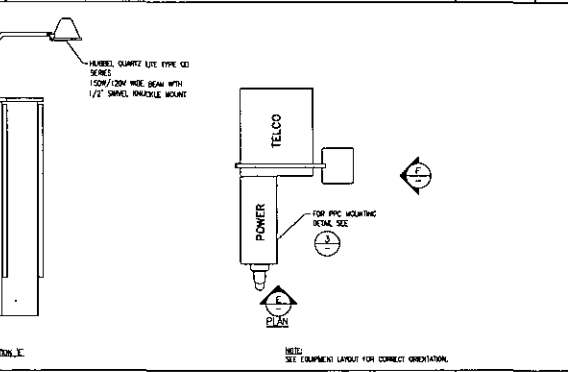
GROUND BUSS BAR

SCALE: NONE 4



PPC CABINET WITH SERVICE LIGHT

SCALE: NONE 1



SCALE: NONE 1



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Fax: (650) 750-3931

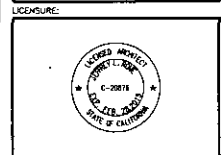
PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SF96X003
ORACLE ARENA SF98X004
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	BY
1	03/01/13	BOOK CD REVIEW (P3-01)	JH
2	04/02/13	BOOK CD REVIEW (P3-02)	JH
3	04/30/13	CLIENT COMMENTS (P3-03)	MW
4	05/09/13	CLIENT COMMENTS (P3-04)	MW

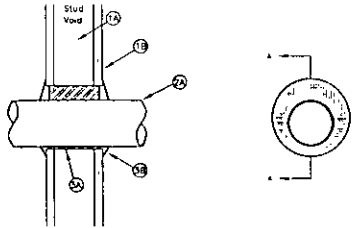
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



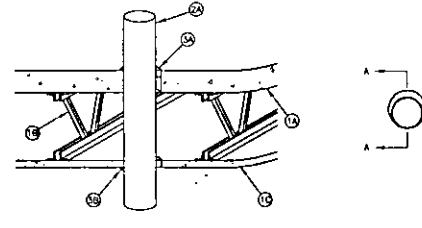
SHEET TITLE
DETAILS

SHEET NUMBER: **A-9** REVISION: **3**

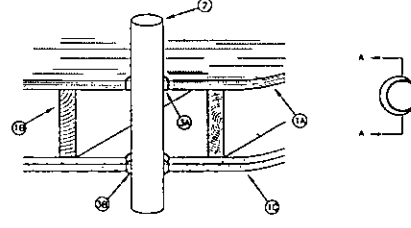
JOB NO. NUMBER: 132149



- 1. WALL ASSEMBLY** - UL 2000 or UL90 SERIES DESIGN
- 1A. WOOD STUDS MIN 2 x 4 IN. NOMINAL AT A MAX 18 IN. ON CENTER OR STEEL STUDS MIN 2 x 3 IN. NOMINAL AT A MAX 24 IN. ON CENTER.
 - 1B. ONE LAYER OF GYPSUM WALLBOARD CAPABLE OF PROVIDING A 1 HR. RATING OR TWO LAYERS OF GYPSUM WALLBOARD CAPABLE OF PROVIDING A 2 HR. RATING. MAX. DIAMETER OF PENETRANT OPENING FOR STEEL FRAMING IS 2 1/2 IN. AND A MAX. DIAMETER OF PENETRANT OPENING FOR WOOD FRAMING IS 1 1/2-1 3/4 IN.
- 2. FIRESTOP**
- 2A. ONE OF THE FOLLOWING MAY BE USED:
 - 1. MAX 24 IN. WOOD PIPE.
 - 2. MAX 24 IN. WOOD PIPE.
 - 3. MAX 4 IN. STEEL CONDUIT OR MAX 4 IN. EMT.
 - 4. MAX 8 IN. COPPER PIPE OR TUBING.
- ANGULAR SPACE - MIN 1/8 IN. TO MAX 1/2 IN.
- 3. FIRESTOPPING** - FRAMING® FS 1900 SERIES SEALANT
- 3A. MINIMAL WOOD BRACING (4 POC) FILLED TO DEPTH OF WALL SPACE.
 - 3B. APPLY FS 1900 INTO ANGULAR SPACE TO A DEPTH OF 1/4 IN. FOR A 1 HR. ASSEMBLY ADD A 1/2 IN. CROWN AND OVERLAP THE WALLBOARD 1/2 IN. FOR A 2 HR. ASSEMBLY ADD A 1/4 IN. CROWN AND OVERLAP THE WALLBOARD 1/4 IN.
- FIRESTOP ASSEMBLY**
- PRODUCT: FRAMING® FS 1900 SERIES SEALANT
- F. RATING: 1 & 2 HOUR
- UL SYSTEM: W1089



- 1. FLOOR-CEILING ASSEMBLY** - UL 2000 SERIES DESIGN
- 1A. 1/4 IN. OR 1/2 IN. CONCRETE OVER METAL LATH OR STEEL DECK WITH A MAX 11-1/2 IN. DIAMETER PENETRANT OPENING.
 - 1B. STEEL JOISTS OR TRUSSES.
 - 1C. MIN 5/8 IN. THICK SCREW ATTACHED TO FLOORING CHANNELS MAX 11-1/2 IN. DIAMETER PENETRANT OPENING.
 - 1D. MIN 5/8 IN. THICK SCREW ATTACHED TO FLOORING CHANNELS MAX 11-1/2 IN. DIAMETER PENETRANT OPENING.
- 2. FIRESTOP**
- 2A. MAX 1/4 IN. DIAMETER OR SMALLER FOR STEEL AND EMT. MAX 3 IN. DIAMETER OR SMALLER FOR COPPER TUBE OR PIPE.
 - 2B. ANGULAR SPACE - FOR PENETRANTS THE ANGULAR SPACE IS MIN 1/4 IN. TO MAX 1/2 IN. APPROX. MIDWAY BETWEEN JOISTS.
- 3. FIRESTOPPING** - 3M COMPANY® FS-3000 HT SEALANT
- 3A. AT FLOOR SURFACE APPLY FS-3000 HT WITH MIN 2/4 IN. THICKNESS APPLIED WITHIN THE ANGULAR SPACE FLUSH WITH TOP OF SURFACE OF FLOOR.
 - 3B. AT CEILING SURFACE APPLY FS-3000 HT WITH MIN 2/8 IN. DEEP INTO ANGLE WITH FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN 1/4 IN. CROWN OF FILL MATERIAL APPLIED TO MINIMUM OF PENETRANT AT ITS GREATEST PRACITICE LENGTHWISE OF CEILING.
- FIRESTOP ASSEMBLY PRODUCT: 3M COMPANY® FS-3000 HT**
- F. RATING: 1 HOUR
- T. RATING: 1 HOUR
- UL SYSTEM: FC1001



- 1. FLOOR-CEILING ASSEMBLY** - UL 2000 SERIES DESIGN
- 1A. MIN 1/4 IN. LAMBER OF PL WOOD SUBFLOOR WITH A MIN 1 IN. DIAMETER LARGER THAN OUTSIDE DIAMETER OF PENETRANT.
 - 1B. NOMINAL 2X10 IN. LAMBER JOISTS SPACED 16 IN. O.C. WITH MIN 3/4 IN. LAMBER BRACING AND WITH ENDS FIRESTOPPED.
 - 1C. FIRST LAYER OF GYPSUM WALLBOARD NEEDED TO HOLD JOISTS. SECOND LAYER OF WALLBOARD NON-FUNCTIONAL TO FLOORING CHANNELS.
 - 1D. MAX. DIAMETER OF JOISTING IS LARGER THAN OUTSIDE DIAMETER OF PENETRANT.
- 2. FIRESTOP**
- 2A. MAX 10 IN. DIAMETER OR SMALLER FOR STEEL OR EMT. MAX 4 IN. DIAMETER OR SMALLER FOR COPPER TUBE AND PIPE.
 - 2B. ANGULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIMETRY OF OPENING SHALL BE 0 IN. TO 1 IN. MAX PIPE, CONDUIT OR TUBING TO BE PROPERLY SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.
- 3. FIRESTOPPING** - 3M COMPANY® FS-3000 HT SEALANT
- 3A. AT FLOOR SURFACE APPLY FS-3000 HT 2/4 IN. DEEP INTO ANGULAR SPACE FLUSH WITH TOP SURFACE OF FLOOR OR SOLE PLATE.
 - 3B. AT CEILING SURFACE APPLY FS-3000 HT MIN 2/8 IN. OR 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED ASSEMBLY. APPLIED WITHIN THE ANGULAR SPACE FLUSH WITH BOTTOM OF SURFACE OF CEILING OR TOP PLATE. AN ADDITIONAL MIN 1/4 IN. CROWN OF FILL MATERIAL APPLIED TO PERIMETRY OF PENETRANT AT ITS GREATEST FROM THE TOP OF FLOORING AND UNDERSIDE OF CEILING OR FROM TOP OF SOLE PLATE AND UNDERSIDE OF TOP PLATE.
- FIRESTOP ASSEMBLY PRODUCT: 3M COMPANY® FS-3000 HT**
- F. RATING: 1 HOUR
- T. RATING: 1 HOUR
- UL SYSTEM: FC1002

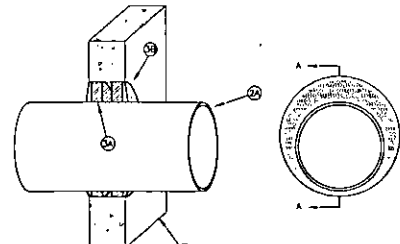
NOTES:

1. CONTRACTOR TO X-RAY PRIOR TO DRILLING OF CORING TO LOCATED) RE-DRILL OR NOT OUT RE-DRILL
2. ALL PENETRATIONS SHALL CONFORM TO TITLE 24 CALIF. BLDG. CODE, SECTION 711.2. PENETRATIONS THROUGH WALLS SHALL COMPLY WITH TITLE 24, CAC SECTION 709.6.
3. THIS SYSTEM DRAWING IS PROVIDED TO AID IN THE INSTALLATION AND SELECTION OF THE UL LISTED DESIGN. THE USER SHALL REFER BACK TO THE UL LISTED DESIGN FOR COMPLETE INFORMATION REQUIRED FOR THE SUBMITTAL AND APPROVAL PURPOSES.
4. SYSTEM DESIGN EVALUATED TO THE UL 1478 (2014) (814) FIRE TESTS OF THROUGH-PENETRATION FIRESTOPPING.
5. PLEASE REFER TO THE UL FIRE RESISTANCE CLASSIFICATION

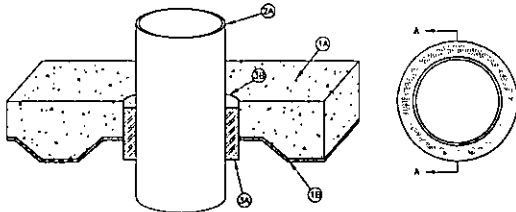
METAL/WOOD STUD WALL ASSEMBLY

CONCRETE/METAL FLOOR-CEILING ASSEMBLY

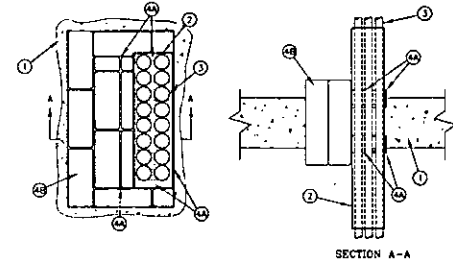
WOOD FLOOR-CEILING ASSEMBLY



- 1. WALL ASSEMBLY**
- 1A. MIN 8 IN. IN. CONCRETE OR BLOCK WALL CAPABLE OF A 2 HR. RATING AND DIAMETER OF PENETRANT OPENING IS 24 IN.
- 2. FIRESTOP**
- 2A. ONE OF THE FOLLOWING MAY BE USED:
 - 1. MAX 24 IN. STEEL OR WOOD PIPE.
 - 2. MAX 4 IN. STEEL CONDUIT.
 - 3. MAX 8 IN. EMT.
- ANGULAR SPACE - MIN 3/4 IN. TO MAX 2-1/2 IN.
- 3. FIRESTOPPING** - FRAMING® FS 1900 SERIES SEALANT
- 3A. MINIMAL WOOD BRACING (4 POC) COMPRESSED INTO ANGULAR SPACE TO A MIN 1/4 IN. THICK LEAVING ROOM FOR SEALANT (BOTH SIDES).
 - 3B. AT WALL SURFACE APPLY FS 1900 INTO ANGULAR SPACE 1/4 IN. THICK AND ADD A 1/4 IN. CROWN AROUND PENETRANT (BOTH SIDES).
- FIRESTOP ASSEMBLY PRODUCT: FRAMING® FS 1900 SERIES SEALANT**
- F. RATING: 3 HOUR
- UL SYSTEM: C21832



- 1. FLOOR-CEILING ASSEMBLY** - UL 2000 SERIES DESIGN
- 1A. MIN 3-1/2 IN. THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT CONCRETE TOPPING, AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNITS.
 - 1B. CONCRETE OR NONCOMPOSITE 1-1/2, 2 OR 3 IN. DEEP FLATED GALV UNITS AS SPECIFIED IN THE INDIVIDUAL FLOOR CEILING DESIGN. DIAMETER OF OPENING THROUGH FLOOR TO BE 1/2 IN. TO 5/8 IN. LARGER THAN THE OUTSIDE DIAMETER OF THROUGH-PENETRANT. MAX. DIAMETER OF OPENING IS 3 IN.
- 2. FIRESTOP**
- 2A. 4 IN. MAX. DIAMETER OR SMALLER IF EMT INSTALLED IN ACCORDANCE WITH ARTICLE 347 OF THE NATIONAL ELECTRIC CODE.
 - 2B. ANGULAR SPACE - MIN 1/4 IN. DIAMETER OPENING SIZE MUST BE 1 IN. LARGER THAN THE NORMAL PIPE SIZE, PIPE OR CONDUIT TO BE PROPERLY SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.
- 3. FIRESTOPPING** - 3M COMPANY® FS-3000 HT SEALANT
- 3A. WRAP STRIP - MIN. 3/16 IN. THICK INTRACEMENT MATERIAL SUPPLIED IN 2-1/2 IN. WIDE STRIPS. SINGLE LAYER OF ONE-CUT WOOD STRIP. BRACED AROUND PIPE AND SECURED WITH THE SOMEONE CLOSURE (WHICH INSTALLED IN FLOORING) WRAP STRIP TO BE APPLIED WITHIN THE OPENING UNITS THAT THE BOTTOM LAYER IS MIN. 1/4 IN. BELOW BOTTOM OF SURFACE OF FLOOR.
 - 3B. SEALANT - MIN 1/4 IN. THICKNESS OF SEALANT APPLIED IN ANGULAR SPACE, FLUSH WITH TOP SURFACE OF FLOOR.
- FIRESTOP ASSEMBLY PRODUCT: 3M COMPANY® FS-3000 HT SEALANT**
- F. RATING: 3 HOUR
- T. RATING: 1-1/2 HOUR
- UL SYSTEM: CA1237



- 1. FLOOR OR WALL ASSEMBLY** - MIN 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 POC) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS. MAX AREA OF OPENING IS 360 SQUARE IN. WITH A MAX DIMENSION OF 30".
- 2. CABLE TRAY** - MAX 24" WIDE BY MAX 4" DEEP LADDER CABLE TRAY WITH CHANNEL-SHAPED SIDE RAILS FORMED OF MIN. 0.050 IN. THICK (16 GA) GALV STEEL OR MAX 24" WIDE BY MAX 4" DEEP LADDER CABLE TRAY WITH CHANNEL-SHAPED SIDE RAILS FORMED FROM 0.050 IN. THICK ALUMINUM. MAX ONE CABLE TRAY PER OPENING. THE ANGULAR SPACE BETWEEN THE CABLE TRAY AND THE PERIMETRY OF THE OPENING WILL BE MIN 0" (POINT CONTACT) TO MAX 0". CABLE TRAY TO BE PROPERLY SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
- 3. CABLE**
- 4. FIRESTOP SYSTEM** - THE FIRESTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
- 4A. FILL VOID OR EMPTY MATERIAL - PUTTY - MIN 1/4" THICKNESS. MIN 2" WIDTH OF PUTTY WRAPPED AROUND EACH CABLE SUCH THAT PUTTY EXTENDS APPROX. 1/2" ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL. ADDITIONAL PUTTY INSTALLED INSIDE CABLE TRAY SIDE RAILS TO COMPLETELY FILL SIDE RAILS WITHIN THE OPENING AND EXTENDING APPROX 1/2" BEYOND BOTH SURFACES OF FLOOR OR WALL. AFTER INSTALLATION OF PELLOWS OVER AND ALL VOID WITHIN THE OPENING SHALL BE FILLED WITH A MIN 1" THICKNESS OF PUTTY.
 - 4B. FILL VOID OR EMPTY MATERIAL - PELLOWS - MAX 6" LONG BY 6" WIDE BY 2" AND 3" THICK PLASTIC CORNER PELLOWS TIGHTLY PACKED TO FILL EXCESS ANGULAR SPACE BETWEEN CABLE TRAY AND PERIMETRY OF OPENING. PELLOWS INSTALLED WITH 1" DIMENSION PROJECTING THROUGH FLOOR OR WALL AND CENTERED WITHIN THE OPENING.
- FIRESTOP ASSEMBLY PRODUCT: 3M COMPANY FIRE BARRIER HOLDABLE PUTTY® (MPS-21) AND FIRE BARRIER SELF-LOCKING PELLOWS**
- F. RATING: 3 HOUR
- UL SYSTEM: CA1238

CONCRETE OR BLOCK WALL ASSEMBLY

CONCRETE FLOOR-CEILING ASSEMBLY

CONCRETE FLOOR-CEILING ASSEMBLY, CABLE TRAY

PENETRATION FIRESTOPPING DETAIL

SCALE: 1 NONE 1



PROJECT INFORMATION

SPRINT OAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SF96FC003
ORACLE ARENA SF96X0004

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:

05/09/13

ISSUED FOR:

CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	BOR CD REVIEW (P3-B1)	JH
2	04/02/13	DOCS CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	JH
4	05/09/13	CLIENT COMMENTS (P3-B4)	MM

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LICENSE:



SHEET TITLE:

CONDUIT PENETRATION DETAILS

SHEET NUMBER: REVISION

A-11 3

JUL 2013 NUMBER: 12/118

GENERAL AND TELCO NOTES:

- CODES AND REGULATIONS:** THE NATIONAL ELECTRICAL CODE AND APPLICABLE FEDERAL, STATE, COUNTY, AND MUNICIPAL BUILDING CODES, ORDINANCES, RULES AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE CONSTRUCTION OF THE PROJECT, SHALL APPLY THROUGHOUT.
- PERMITS, FEES AND INSPECTIONS:** ARRANGE AND PAY FOR REQUIRED ELECTRICAL BUILDING PERMITS, FEES AND INSPECTIONS.
- WARRANTY:** INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. DEFECTIVE MATERIALS, EQUIPMENT, OR INFERIOR WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER. 30 DAYS AFTER THIRTY (30) DAYS THE CONTRACTOR HAS NOT COMPLETED THE WORK, THE OWNER RESERVES THE OPTION OF ARRANGING FOR THE NECESSARY REPAIRS AND RECHARGING THE ORIGINAL CONTRACTOR FOR THE WORK.
- CHANGES:** NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS MADE UNLESS PROPER WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER, OR OWNER IN THE FORM OF A CHANGE ORDER.
- PROJECT WORK:** TO INCLUDE THE FURNISHING OF LABOR, TOOLS, EQUIPMENT, AND MATERIALS AS REQUIRED TO INSTALL COMPLETE AND IN OPERATING CONDITION, THE ELECTRICAL SYSTEM SHOWN OR IMPLIED ON THESE DRAWINGS.
- DRAWINGS:** ELECTRICAL DRAWINGS ARE DIAGNAMATIC IN NATURE. CONDUIT ROUTING IS SHOWN AS A GUIDE ONLY. ACTUAL CONDUIT PLACEMENT IS TO BE MADE IN A PROFESSIONAL MANNER.
- DISCREPANCIES:** DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, CODES, ETC. MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- SURVEY AND CONDITIONS:** VISIT THE JOB SITE PRIOR TO SUBMITTING BID AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER REFERENCE WILL BE GIVEN FOR SITE CONDITIONS.
- COOPERATION:** COOPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE ARRANGING AND EXECUTING WORK IN SUCH A MANNER AS REQUIRED BY THE "SCHEDULE OF WORK" AND THE "SCHEDULE OF CONSTRUCTION" BY ALL TRADES CONCERNED.
- TESTS AND REPORTS:** TESTERS SHALL BE LICENSED TESTED AND TEST REPORT SHALL BE PROVIDED TO THE OWNER BEFORE FINAL ACCEPTANCE.
- AS-BUILTS:** ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILTS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT.
- MATERIALS AND WORKMANSHIP:** PROVIDE MATERIALS NEW AND OF SPECIFICATION QUALITY. ALL LABELS, WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE INSTALLED BY QUALIFIED ELECTRICIANS UNDER THE DIRECT SUPERVISION OF A COMPETENT FOREMAN.
- CONDUIT SYSTEM:** RIGID STEEL, HEAVY-WALL CONDUIT, INCLUDING COUPLINGS, LOCK WAFERS, BRUSHINGS, IMPALES, AND OTHER FITTINGS SHALL BE HOT DIPPED GALVANIZED, SHERARDIZED, OR ZINC COATED. ELECTRICAL METALLIC TUBING (EMT) INCLUDING COUPLINGS, CONNECTORS, AND OTHER FITTINGS SHALL BE GALVANIZED OR GALNEUMATED. FITTINGS FOR EMT SHALL BE OF THE COMPRESSION TYPE. ALL CONDUIT SHALL BE INSTALLED FOR FUTURE USE SHALL BE INSTALLED WITH A MINIMUM 3/8" POLY PULL ROPE WITH MEASURING TAP TO DETERMINE AS-BUILT CONDUIT LENGTH. BOTH MUST BE IN ONE CONTINUOUS LENGTH.
ELECTRICAL CONDUIT SHALL BE AS FOLLOWS:
a. MINIMUM 1" RIGID GALVANIZED STEEL IN EXPOSED AREAS SUBJECT TO WEATHER OR PHYSICAL DAMAGE.
b. MINIMUM 1" ELECTRICAL METALLIC TUBING (EMT) IN DOORS.
c. MINIMUM 1" LIQUID TIGHT FLEX FOR WEATHERPROOF CONNECTIONS TO EQUIPMENT.
d. UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PIG WITH SCHEDULE 40 BENDS AND RISERS. PVC CONDUITS SHALL CONTAIN A GROUND WIRE PER NEC TABLE 250-94.
1. UTILITY BENDS MAY BE PER LOCAL UTILITY RECOMMENDATIONS.
TELCO CONDUIT SHALL BE AS FOLLOWS:
MINIMUM 2" DIAMETER DUCT OF APPROVED MATERIAL (SEE ABOVE)
- IN LINE PULL BOXES:** MINIMUM DIMENSIONS 24" LONG, 6" WIDE BY 6" DEEP. PREFERRED DIMENSIONS 30" LONG, 6" WIDE BY 6" DEEP.
a. PULL BOXES SHALL NOT BE USED FOR 90 DEGREE TRANSITIONS UNLESS 10" BENDING RADIUS CAN BE MAINTAINED.
b. MAXIMUM OF 200 FEET HORIZONTAL BETWEEN PULL BOXES.
c. MAXIMUM OF (2) 90 DEGREE BENDS BETWEEN PULL BOXES.
d. MINIMUM CONDUIT BEND RADIUS BE 10 TIMES CONDUIT DIAMETER.
e. VERTICAL CONDUIT PULLS SHALL HAVE A PULL BOX EVERY 100 FEET.
f. ELECTRICAL ELBOWS OR CONDUITS SHALL NOT BE USED AS PULL BOXES.
- STANDARD PULL BOXES:** MINIMUM 17" WIDE BY 30" LONG
a. TELCO PULL BOXES ARE TO BE OF AT LEAST 24" X 6" X 6"
b. PREFERRED TELCO PULL BOX DIMENSIONS 30" X 6" X 6"
c. TELCO PULL BOXES MUST BE ACCESSIBLE. TELEPHONE COMPANIES WILL NOT REMOVE COILING TIES.
d. CONDUIT TO ENTER AND LEAVE PULL BOX IN A STRAIGHT LINE. DO NOT TURN UP CONDUIT.
- WIRE:** MINIMUM #12 EXCEPT WHERE OTHER SIZES ARE SPECIFICALLY INDICATED. THE NUMBER OF WIRES IN A CONDUIT ARE INDICATED BY MEANS OF CROSS HATCHES (NEUTRAL BEING LONGER) WHERE THREE OR MORE WIRES ARE NECESSARY. REFER TO NEC TABLE 38 FOR CONDUIT FULL REQUIREMENTS WHERE LARGER THAN 1/2" CONDUIT IS REQUIRED FOR THE NUMBER OF WIRES INDICATED.
WIRE SHALL BE AS FOLLOWS:
#10 OR SMALLER WIRE SHALL BE 75C RATED SOLID COPPER, WITH THRU/TWAIN ARC INSULATION.
#8 AND LARGER SHALL BE 75C RATED STRANDED COPPER, WITH THRU/TWAIN ARC INSULATION.
- FUSES:** FUSE FIVE SHALL BE CLASS C TYPE "TAN" FAST ACTING RATED FOR 1500 AMP WITH DOWN STREAM DEVICES.
- SERVICE EQUIPMENT:** VERIFY WITH THE SERVING UTILITY THAT THE SERVICE EQUIPMENT MEETS ALL REQUIREMENTS AND IS BASED FOR THE MAXIMUM SHORT CIRCUIT DUTY AVAILABLE, AND SUBMIT SHOP DRAWINGS IF REQUESTED. EQUIPMENT MUST BE RATED PER MANUFACTURER'S RECOMMENDATIONS, AND RESPONSIBILITY.
- TELEPHONE SERVICE ENTRANCE:** PROVIDE AND INSTALL TELEPHONE ENTRANCE CONDUITS PER PER PROJECT MANAGER AND COORDINATE PRIMARY SERVICE LOCATION.

GENERAL NOTES

4

- TELCO SPACE BOXES:** TELCO SPACE BOXES WILL BE SIZED BY SERVING TELEPHONE UTILITY. DETAILS WILL BE PROVIDED BY INTERCONNECT ENGINEER OR BY SERVING TELEPHONE UTILITY.
- ACCEPTANCE:** BEFORE ACCEPTANCE OF THE WORK, INSPECT THE BUILDING IN THE PRESENCE OF THE OWNER AND DEMONSTRATE THAT ELECTRICAL SYSTEMS ARE IN OPERATING CONDITION SATISFACTORY TO THE OWNER.
- CUTTING AND PATCHING:** CUTTING AND PATCHING OF CONSTRUCTION REQUIRED FOR PROPER INSTALLATION OF HIS WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR. CUTTING AND PATCHING SHALL BE DONE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- LOCATION AND ARRANGEMENTS:** DRAWINGS INDICATE DIAGRAMMATICALLY, THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, ETC. AND ARE NOT TO BE SCALED. PROPER ALIGNMENT MUST BE EXERCISED IN THE EXECUTION TO INSURE THE BEST POSSIBLE INSTALLATION.
- FIRE RATED AREAS:** FIRE STOPPING REQUIRED WHEN OPENINGS ARE MADE IN FIRE RATED BARRIERS.
- PARALLEL CONDUCTORS:** IT IS IMPERATIVE THAT PARALLEL CONDUCTORS BE OF EQUAL LENGTHS AND MUST BE TESTED IN THE PRESENCE OF THE ELECTRICAL INSPECTOR TO INSURE PHASE CONTINUITY.
- EXTERIOR EQUIPMENT:** ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, CONNECTORS, ETC. LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE WEATHERPROOF.
- EQUIPMENT LOCATIONS:** LOCATION OF EQUIPMENT SHALL BE FIELD VERIFIED.
- EQUIPMENT REQUIREMENTS:** FIELD VERIFY WITH EQUIPMENT NAMEPLATE, CIRCUIT BREAKER, FUSES, AND VECTOR SETS FOR EQUIPMENT INSTALLED, AND INSURE THAT THE INSTALLATION COMPLETES.
- GROUNDING:** GROUNDING OF THE ELECTRICAL EQUIPMENT AND SYSTEM SHALL BE IN ACCORDANCE WITH DETAILS ON THESE PLANS AND ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES OR ORDINANCES.

TELCO BONDING AND GROUNDING:

- #8 AWG SOLID COPPER INSULATED GROUND WIRE (24" COILED IN TELECO BOX) SHALL BE BONDING CLAMPS IN PLACE. THE TELEPHONE GROUND MUST BE BONDED TO THE POWER GROUND. THE TELEPHONE SERVICE CABINET MUST BE BONDED TO THE TELEPHONE GROUND WIRE. ANY QUESTIONS REGARDING TELEPHONE GROUNDING SHOULD BE REFERRED TO THE INTERCONNECT ENGINEER.
- IF TELEPHONE SERVICE IS TO BE MOUNTED ON A BARRICADE (NO TELCO BOX PLACED) A BUS BAR MUST BE PLACED AND A #8 SOLID COPPER INSULATED GROUND BONDED TO THE NEW CONDUIT AND A 24" COIL LEFT.

GROUNDING NOTES:

- GROUND ANTENNA BASES, FRAMES, CABLE RINGS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRE AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND ETS MANUFACTURER'S PRACTICES FOR GROUNDING. UNDERGROUND WATER PIPES, METAL CEMENTS, AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
- GROUND CONDUCTORS SHALL BE #2 AWG U.L.O.N. WIRE SHALL BE COPPER THRU/TWAIN GROUND WIRE SHALL BE IN CONTACT OR GREEN INSULATED.
- CONTRACTOR IS TO PERFORM A FALL-OF-POTENTIAL GROUND RESISTANCE MEASUREMENT TEST AND RESULTS MUST NOT EXCEED A RESISTANCE READING OF 3 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDINGS OR SET ROOTS AS REQUIRED TO ACHIEVE THE SPECIFIED OHMS READING. CONTRACTOR SHALL PROVIDE GROUNDING AND OTHER OPTIONAL TESTING AS DIRECTED AND TO BE WITNESSED BY A PWS REPRESENTATIVE.
- HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM 30" BELOW GRADE IN TRENCH. U.L.O.N. AND BACK FILL SHALL BE COMPLETED AS REQUIRED BY ARCHITECT.
- GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS, OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" WITH A MINIMUM #8 THINNED COPPER CONDUCTOR AND (2)-HOLE COMPRESSION CONNECTOR AT BUS.
- ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
a. BURNED, 1/4" GRADE U.L. LISTED CONNECTIONS (MECHANICAL CONNECTIONS)
b. WAGED, 1/4" EXTERIOR WELDS (WELDED CONNECTIONS)
c. #2 (2)-HOLE THINNED COPPER COMPRESSION FITTINGS (BUS BAR CONNECTIONS)
- EXPANDED CONNECTIONS SHALL HAVE EXPOSED MANUFACTURER'S DESIGN VISIBLE AT THE GRAB.
- GROUND CONNECTIONS SHALL BE BURNTISHED AND SHALL HAVE A COATING OF "ZINC-SHEILD" OR "INOX-40" APPLIED TO THE CONNECTION.
- GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.

TRENCHING NOTES:

- MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY UNDER PREPARED SURFACE SHALL BE 18" OR AS SPECIFIED BY PERMITTING OWNER/AGENCY.
- MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY UNDER DIRT SURFACE SHALL BE 24" OR AS SPECIFIED BY PERMITTING OWNER/AGENCY.
- MINIMUM COVERAGE OF DUCT IN PUBLIC RIGHT OF WAY SHALL BE 30" BELOW CUTTER GRADE OR AS SPECIFIED BY PERMITTING OWNER/AGENCY.
- MINIMUM SEPARATION IN SHARED TRENCH SHALL BE 12" BETWEEN POWER AND TELEPHONE.

ABBREVIATIONS AND SYMBOLS:

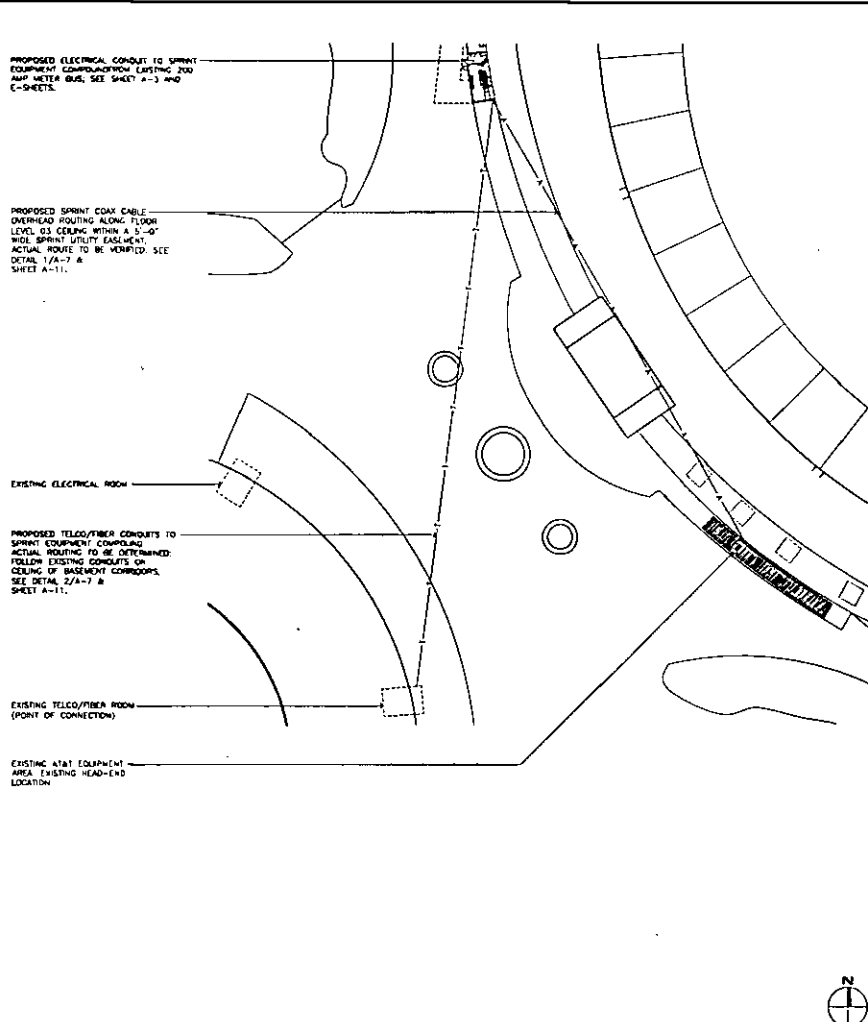
A	AMPERE	MOR	MAIN GROUND BUS
AWG	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	EB	EQUIPMENT GROUND BUS
AWG	AMERICAN WIRE GAUGE	IBFC	BUILDING FIREWORK GROUND
C.O.	CONDUIT ONLY (WITH PULL WIRE)	(E)	INDICATES EXISTING
C	CONDUIT	TELCO	TELEPHONE COMPANY
INS	INSULATED	REC	RECEIPTABLE
P	PULL	W	WIRE
PH	PHASE	W	WIRE
GRD	GROUND	W	WIRE
BC	BARE COPPER WIRE	W	WIRE
MB	UNDERGROUND PULL SECTION	W	WIRE

ELECTRICAL SITE PLAN

POWER SERVICE:
ELECTRICAL SERVICE NEED:
200A 120/240 3PH 4W

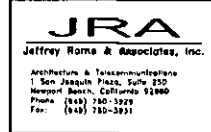
TELCO SERVICE NEED:
AT&T

NOTE:
IT IS THE DESIGN PROFESSIONAL'S JUDGMENT, WHOSE SIGNATURE APPEARS ON THIS DRAWING, THAT THE DESIGN DESCRIBED IN THIS SET OF DRAWINGS AND SPECIFICATIONS DOES NOT ADVERSELY INFRINGE ON THE BASIC LIFE SAFETY SYSTEMS OF THE BUILDING.



SCALE: 2
NONE

SCALE: 1
NONE

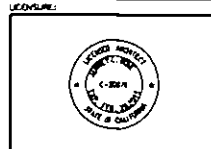


PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM STREETS
ORACLE ARENA STREETS
2000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

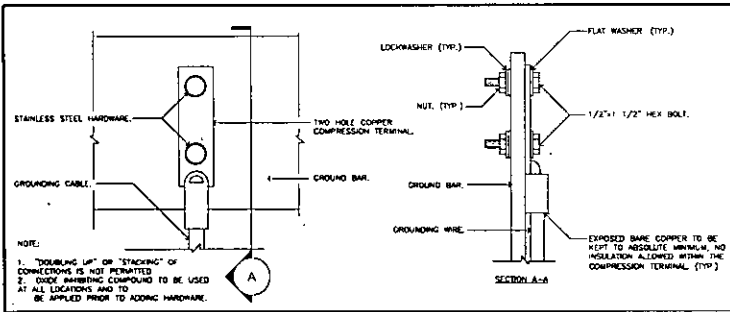
CLIENT COMMENTS

REV	DATE	DESCRIPTION	BY
1	03/01/13	FOR CD REVIEW (P3-B1)	JH
2	04/02/13	FOR CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WH
4	05/09/13	CLIENT COMMENTS (P3-B4)	WH



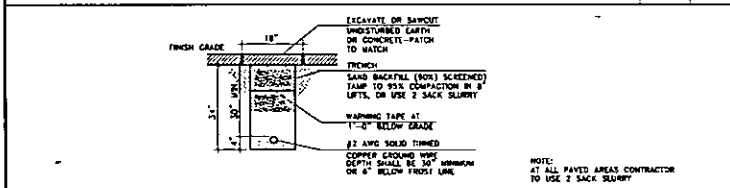
ELECTRICAL SITE PLAN, CONTACTS, AND NOTES

SHEET NUMBER: E-1
REVISION: 3



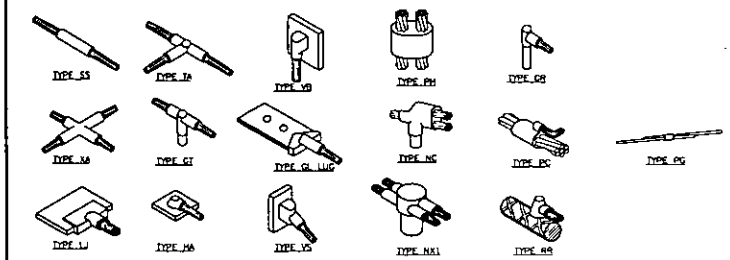
TYPICAL GROUND BAR CONNECTION

SCALE: NONE 7



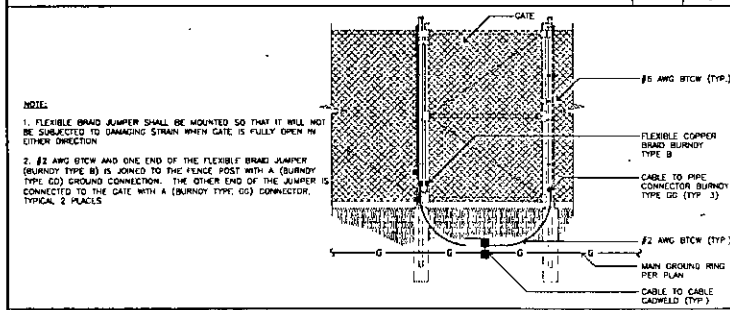
GROUNDING TRENCH

SCALE: NONE 6



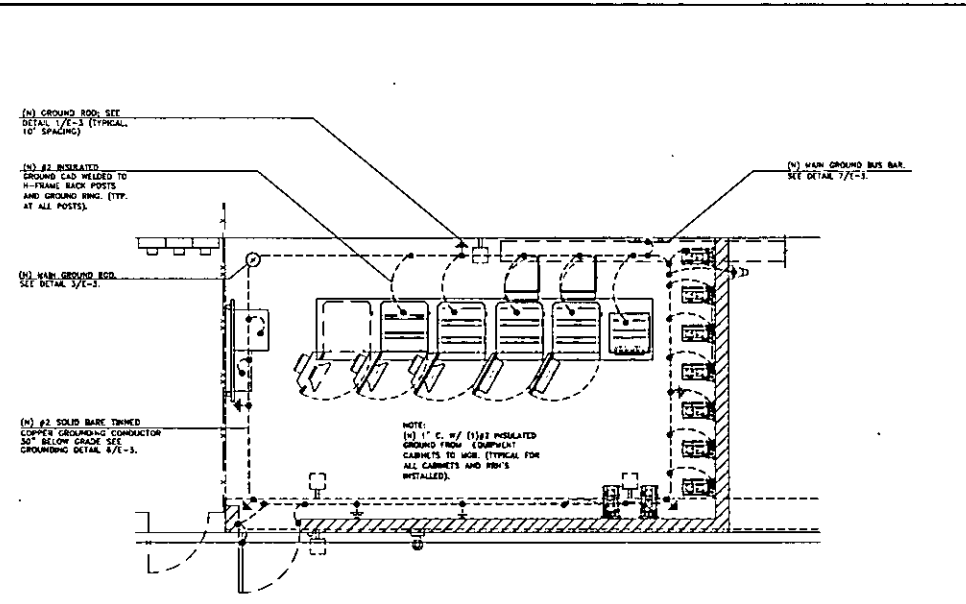
TYPICAL CADWELD TYPES

SCALE: NONE 5



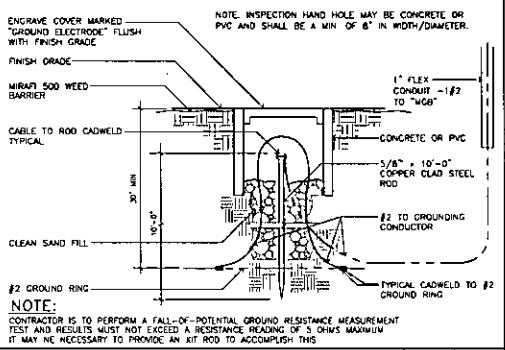
TYPICAL GATE BONDING DETAIL

SCALE: NONE 4



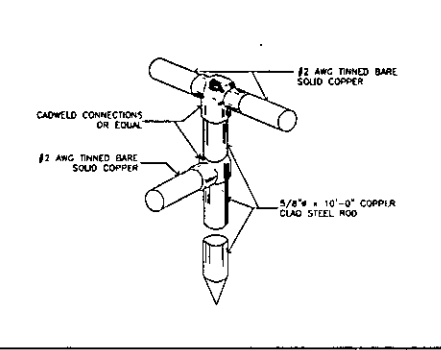
LEASE AREA GROUNDING PLAN

SCALE: NONE 2



MAIN GROUND TEST WELL

SCALE: NONE 3



GROUND ROD

SCALE: NONE 1



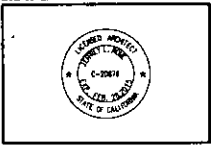
PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM #9636003
ORACLE ARENA #9636004
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	90% CD REVIEW (P3-01)	JH
2	04/02/13	100% CD REVIEW (P3-02)	JH
3	04/30/13	CLIENT COMMENTS (P3-03)	AW
4	05/09/13	CLIENT COMMENTS (P3-04)	AW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

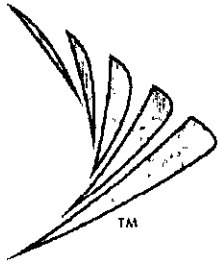


SHEET TITLE:
GROUNDING PLAN AND DETAILS

SHEET NUMBER: E-3
REVISION: 3

JOB NUMBER: 13149

Sprint



OAKLAND COLISEUM & ORACLE ARENA SPRINT DAS

SF96XC004 ORACLE ARENA
SF96XC003 OAKLAND COLISEUM

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621
ALAMEDA COUNTY

LATITUDE: 37.751233 (37° 45' 0.44" N)
LONGITUDE: -122.201981 (122° 12' 07.31" W)

CALIFORNIA STATE CODE COMPLIANCE

SPRINT PROPOSES TO ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK IN OR CONTRARY TO THESE CODES.

- CALIFORNIA ADMINISTRATIVE CODE (ENCL TITLE 24 & 25).
- 2010 CALIFORNIA BUILDING CODE.
- CITY/ COUNTY ORDINANCES.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA).
- 2010 MECHANICAL CALIFORNIA CODE.
- ANSI/ FIA-222-F LIFE SAFETY CODE NFPA-101.
- 2010 CALIFORNIA PLUMBING CODE.
- 2010 CALIFORNIA ELECTRICAL CODE.
- 2010 LOCAL BUILDING CODE.

ACCESSIBILITY REQUIREMENTS

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2010 CALIFORNIA BUILDING CODE.

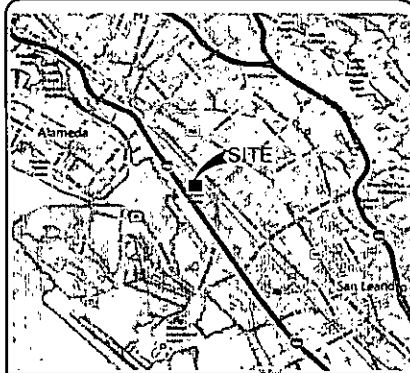


DIG ALERT
CALL TOLL FREE
1-800-227-2600

CODE BLOCK

APPROVAL	SIGNATURE	DATE
PROJECT MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		
SITE ACQUISITION		
PLANNING CONSULTANT		
PROPERTY OWNER		
SPRINT REPRESENTATIVE		

SIGNATURE BLOCK



VICINITY MAP

FROM THE OAKLAND INTERNATIONAL AIRPORT:

- HEAD NORTHEAST ONTO AIRPORT DRIVE (394 FEET)
- CONTINUE ONTO 86TH AVENUE (1.0 MILES)
- TAKE THE INTERSTATE 880 NORTH RAMP TO DOWNTOWN/OAKLAND (0.2 MILES)
- MERGE ONTO I-880 NORTH/INTERSTATE 880 (1.2 MILES)
- TAKE EXIT 37 TOWARD 56TH AVE/ZIONE WAY/OAKFEE COLISEUM (0.2 MILES)
- MERGE ONTO COLISEUM WAY (450 FEET)
- DESTINATION WILL BE ON THE RIGHT

DRIVING DIRECTIONS

SPRINT PROPOSES TO BUILD-OUT A NEW UNMANNED TELECOMMUNICATIONS FACILITY

- INSTALL (1) (P) 14.5' X 25' CONCRETE BLOCK WALL EQUIPMENT ENCLOSURE.
- INSTALL (P) ELECTRICAL PANEL AND REQUIRED CONDUITS.
- INSTALL (P) TELECO/FIBER PANEL AND REQUIRED CONDUITS FROM TELECO/FIBER P.O.C.
- INSTALL (P) COAX CABLE LINES TO RISE HEAD-END EQUIPMENT.
- INSTALL (2) (P) GPS ANTENNAS
- INSTALL (P) SPRINT EQUIPMENT LIGHTING
- INSTALL (18) (P) SPRINT RIBS
- INSTALL (P) SPRINT EQUIPMENT CABINETS.

PROJECT DESCRIPTION

APPLICANT:
SPRINT PCS
310 COMMERCIE
IRVINE, CALIFORNIA 92602
CONTACT: TSD

PROPERTY OWNER:
OAKLAND-ALAMEDA COUNTY COLISEUM AUTHORITY
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94612

ZONING CLASSIFICATION: C-38
CALIFORNIA BUILDING CODE: 2010 EDITION
EXISTING CONSTRUCTION TYPE: TYPE I
PROPOSED CONSTRUCTION TYPE: TYPE I
EXISTING OCCUPANCY: U
PROPOSED OCCUPANCY: U
JURISDICTION: ALAMEDA COUNTY
EXISTING USE: TELECOMMUNICATIONS
PROPOSED USE: TELECOMMUNICATIONS

PARCEL NUMBER:
041-3901-008

LEASE AREA:
363 SQUARE FEET

PROJECT SUMMARY

SHEET DESCRIPTION

- T-1 TITLE SHEET
- T-2 SPECIFICATIONS AND NOTES
- T-3 SIGNAGE
- A-1 OVERALL SITE PLAN
- A-2 ENLARGED SITE PLAN
- A-3 EQUIPMENT PLAN & DETAILS
- A-4 ELEVATIONS
- A-5 SITE SECTION
- A-6 EQUIPMENT DETAILS
- A-7 EQUIPMENT DETAILS
- A-8 BLOCK WALL DETAILS
- A-9 DETAILS
- A-10 DETAILS
- A-11 CONDUIT PENETRATION DETAILS
- E-1 ELECTRICAL SITE PLAN, CONTACTS & DETAILS
- E-2 SINGLE LINE DIAGRAM, PANEL SCHEDULE & DETAILS
- E-3 GROUNDING PLAN AND DETAILS

SHEET INDEX

PROJECT ARCHITECT

JEFFREY ROME & ASSOCIATES
1 SAN JOAQUIN PLAZA
SUITE 250
NEWPORT BEACH, CALIFORNIA 92660
CONTACT: JEFFREY ROME
PHONE: (949) 760-3829
EMAIL: JROME@JRA.COM

STRUCTURAL ENGINEER

TALZAJI & ASSOCIATES

PROJECT MANAGER

CORTELL, LLC
6300 WEST LA MADRE
LAS VEGAS, NEVADA 89130
CONTACT: DAN DAVIS
PHONE: (702) 267-4111
EMAIL: DANIEL.DAVIS@CORTELL-LLC.COM

CONSTRUCTION COORDINATOR:

CORTELL, LLC
6300 WEST LA MADRE
LAS VEGAS, NEVADA 89130
CONTACT: WINE WANG
PHONE: (702) 813-3145
EMAIL: WINE.WANG@CORTELL-LLC.COM

PLANNING COORDINATOR

CORTELL, LLC
6300 WEST LA MADRE
LAS VEGAS, NEVADA 89130
CONTACT: ALEX ORNER
MOBILE: (615) 461-3184
EMAIL: ALEX.ORNER@CORTELL-LLC.COM

ELECTRICAL ENGINEER

EDS ENGINEERING
CONTACT: BOB CASTRO
PHONE: (714) 250-7088

TELECO COMPANY:

TSD

POWER COMPANY:

PGE
CONTACT: TSD
PHONE: TSD

PROJECT TEAM

THE DRAWING SCALES SHOWN IN THIS SET REPRESENT THE CORRECT SCALE ONLY WHEN THESE DRAWINGS ARE PRINTED IN A 11"x17" OR 22"x34" FORMAT. IF THIS DRAWING SET IS NOT 11"x17" OR 22"x34", THIS SET IS NOT TO SCALE.

DRAWING SCALE



Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Newport Beach, California 92660
Phone: (949) 760-3829
Fax: (949) 760-3931

PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SF96XC004
ORACLE ARENA SF96XC003

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:

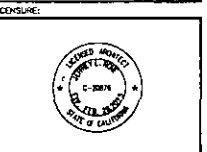
05/09/13

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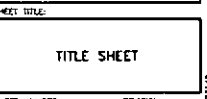
CLIENT COMMENTS

REVISIONS				
REV	DATE	DESCRIPTION	INT	
1	03/01/13	BOR CD REVIEW (P3-B1)	JH	
2	04/02/13	100% CD REVIEW (P3-B2)	JH	
3	04/30/13	CLIENT COMMENTS (P3-B3)	JH	
4	05/09/13	CLIENT COMMENTS (P3-B4)	MM	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



LICENSE:



SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

REVISION

T-1 3

GENERAL GUIDELINES

1. THE LATEST EDITION OF THE AMERICAN INSTITUTE OF ARCHITECTS' DOCUMENT 201 "GENERAL CONDITIONS OF THE CONTRACT FOR CONSTRUCTION" ARE INCLUDED IN THESE SPECIFICATIONS AS IF COMPLETELY REPRODUCED HEREIN.
2. THIS FACILITY IS AN UNOCCUPIED PDS TELECOMMUNICATIONS SITE AND IS DESIGNED FROM OBTAINED ACCESS REQUIREMENTS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS PARTICIPATING SHALL VISIT THE SITE AND SHALL MAKE SURE THAT ALL FIELD CONDITIONS AFFECTING THE PROPOSED PROJECT INCLUDING UTILIZATION, ELECTRICAL, MECHANICAL AND STRUCTURAL CONDITIONS AS WELL AS WITH THE SPRINT CONSTRUCTION AND CONTRACT DOCUMENTS AND SHALL CONFIRM THAT THE PROJECT CAN BE ACCOMPLISHED AS SHOWN FROM PROCEEDING WITH CONSTRUCTION SHOULD ANY ERRORS, OMISSIONS, OR DISCREPANCIES BE FOUND. THE GENERAL CONTRACTOR SHALL IMMEDIATELY NOTIFY SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT IN WRITING IN THE EVENT OF DISCREPANCIES. THE CONTRACTOR SHALL INCLUDE THE ABOVE COSTS ON EXTENSIVE WORK IN THE BIDS, UNLESS SPECIFICALLY DIRECTED OTHERWISE. IF A DISCREPANCY EXISTS AND THE PROJECT MANAGER AND ARCHITECT ARE NOT NOTICED, THE GENERAL CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED TO REPAIR OR CORRECT ALL PROBLEMS THAT RESULT.
4. DRAWINGS SHALL NOT BE SCALED. THESE DRAWINGS ARE INTENDED TO BE DIMENSIONAL ONLY. FICATED DIMENSIONS HAVE PRECEDENCE OVER DIMENSIONAL SCALE AND DETAIL DRAWINGS HAVE PRECEDENCE OVER SMALL SCALE DIMENSIONS. CONSTRUCTION SHALL CHECK ACCURACY OF ALL DIMENSIONS IN THE FIELD UNLESS SPECIFICALLY NOTED. DO NOT FABRICATE ANY MATERIALS OR BEGIN ANY CONSTRUCTION UNTIL THE ACCURACY OF DRAWING DIMENSIONS HAS BEEN VERIFIED AGAINST ACTUAL FIELD DIMENSIONS.
5. THE CONTRACTOR SHALL INCLUDE IN HIS OR HER BID ALL MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE THE WORK AS INDICATED OR BY THESE DRAWINGS.
6. CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER THE PROPOSED CONSTRUCTION. IF ANY DETAILS ARE CONSIDERED IMPRACTICAL, UNSUITABLE, UNSAFE, NOT WATERPROOF, OR NOT WITH STANDBY REQUIREMENTS, THE CONTRACTOR SHALL BE ASSUMED THAT THERE IS NO OBJECTION TO ANY DETAIL, DETAILS ARE INTENDED TO SHOW THE END RESULT OF A DESIGN WORK. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB CONDITIONS, AND SHALL BE INCLUDED AS PART OF THE WORK.
7. EXISTING ELEVATIONS AND LOCATIONS TO BE ADDED SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION. IF ANY DISCREPANCIES ARE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SO THAT ANY MODIFICATIONS CAN BE MADE BEFORE PROCEEDING WITH THE WORK.
8. THE CONTRACTOR SHALL VERIFY ALL TELEPHONE & RADIO EQUIPMENT LOCATIONS, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND FINAL LOCATIONS WITH SPRINT CONSTRUCTION MANAGER PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH EXISTING RADIO SYSTEMS.
9. ALL SYMBOLS & ABBREVIATIONS USED ON THE DRAWINGS ARE CONSIDERED CONSTRUCTION STANDARDS. IF THE CONTRACTOR HAS REVISIONS REGARDING THE EXISTING STANDARDS, THE CONTRACTOR SHALL NOTIFY THE SPRINT CONSTRUCTION MANAGER AND THE ARCHITECT SHALL BE NOTIFIED FOR CLARIFICATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK.
10. THE CONTRACTOR SHALL OBTAIN AND PAY FOR PERMITS, LICENSES AND INSURANCE NECESSARY FOR PERFORMANCE OF THE WORK AND INCLUDE THOSE IN THE COST OF THE WORK TO SPRINT.
11. THE CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS SHALL WORK ON THE PROJECT. THE CONTRACTOR SHALL BE OBJECT AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION AND WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION AND WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION AND WORK.

20. THE CONTRACTOR SHALL PROVIDE TEMPORARY WATER, POWER AND EJECT UTILITIES AS REQUIRED BY THE PROPERTY OWNER, SPRINT, AND THE CITY OR GOVERNING AGENCY.
21. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING THE NECESSARY PERMITS AND APPROVALS FROM THE CITY OR GOVERNING AGENCY. THIS SHALL BE DONE AFTER THE SITE HAS BEEN MAINTAINED IN GOOD CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OR GOVERNING AGENCY. THIS SHALL BE DONE AFTER THE SITE HAS BEEN MAINTAINED IN GOOD CONDITION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OR GOVERNING AGENCY.
22. THE LATEST EDITION OF ALL PERMITTED AND APPROVED PLANS PREPARING TO THIS PROJECT SHALL BE KEPT IN A FIRM BOX AND SHALL NOT BE USED BY WORKERS AFTER ALL CONSTRUCTION SETS SHALL REFLECT THE SAME INFORMATION. THE CONTRACTOR SHALL ALSO MAINTAIN IN GOOD CONDITION, ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDUM AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES. THESE ARE TO BE UNDER THE CARE OF THE JOB SUPERINTENDENT.
23. THE CONTRACTOR SHALL REMOVE ALL RUBBISH AND WASTE MATERIALS ON A DAILY BASIS, EXCEPT FOR THAT SPECIFIED AS REMAINING THE PROPERTY OF THE BUILDING OR PROPERTY OWNER AND SHALL EXERCISE STRICT CONTROL OVER JOB CLEANING THROUGHOUT CONSTRUCTION, INCLUDING FINAL CLEANUP UPON COMPLETION OF WORK. ALL AREAS ARE TO BE LEFT IN A BROAD CLEAN CONDITION AT THE END OF EACH DAY AND VACUUM CLEAN CONDITION, FREE FROM PAINT SPOTS, DUST OR SAJAGES OF ANY NATURE AT COMPLETION OF WORK.
24. THE GENERAL CONTRACTOR MUST PERFORM WORK DURING PROPERTY OWNER'S PREFERRED HOURS TO AVOID DISRUPTION OF HIS BUSINESS.
25. ALL EXPOSED METAL SHALL BE HOT-DIPPED GALVANIZED.
26. SEAL ALL PENETRATIONS THROUGH PRE-CAST AREAS WITH ULL, BUTYL OR FIRE MARGINAL APPROVED MATERIALS IF AND WHERE APPLICABLE TO THIS FACILITY AND PROJECT SITE.
27. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A-10 WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA CONSTRUCTION.
28. ELECTRICAL POWER SYSTEM SHALL BE GROUNDED PER NEC ARTICLES 250 AND 810.
29. ALL NEW OPENINGS IN THE EXTERIOR ENVELOPE OF CONDITIONED SPACES SUCH AS AT WALL AND ROOF PENETRATIONS SHALL BE CALCULATED OR SEALED TO LIMIT INFILTRATION OF AIR AND MOISTURE.
30. UPON COMPLETION OF CONSTRUCTION, SPRINT CONSTRUCTION MANAGER SHALL CONDUCT A WALK-THROUGH WITH PROPERTY OWNER OR REPRESENTATIVE OF PROPERTY OWNER TO ACCEPTANCE OF THE PROJECT BY SPRINT.
31. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEM EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY SPRINT.
32. INSTALL ALL EQUIPMENT AND MATERIALS PER THE LATEST EDITION OF THE MANUFACTURER'S INSTALLATION SPECIFICATIONS UNLESS OTHERWISE SPECIFICALLY NOTED, OR WHERE LOCAL CODES OR REGULATORY TAKE PRECEDENCE.
33. NOTIFY SPRINT PRIOR TO ANY RF OR SP CONCERNS 1-888-400-6040.

ROOFING & WATERPROOFING NOTES

1. CONTRACTOR SHALL CONTACT BUILDING OWNER TO DETERMINE IF ROOF IS UNDER WARRANTY. CONTRACTOR SHALL GUARANTEE THAT ANY AND ALL NEW ROOFING WORK MEETS THE SPECIFICATION OF ANY EXISTING ROOFING WARRANTIES. SUCH THAT THE WARRANTY IS NOT MADE INVALID AS A RESULT OF THIS WORK. IF IT IS DETERMINED THAT THE ARCHITECT'S DETAILS OR MATERIALS OR HANDBOOK OR BY ANY OTHER DISCREPANCY IS FOUND, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT AND THE SPRINT PROJECT MANAGER. IF WRITING ULTIMATELY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH THE ORIGINAL ROOF MANUFACTURER'S SPECIFICATIONS.
2. CONTRACTOR SHALL USE METHODS AND MATERIALS SIMILAR AND COMPATIBLE WITH EXISTING MATERIALS & CONDITIONS FOR ROOF PATCHING, NEW PENETRATIONS, ETC.
3. THE CONTRACTOR SHALL PROPERLY SEAL ALL NEW ROOF & BUILDING ENVELOPE PENETRATIONS SUCH THAT THE INTEGRITY OF THE ORIGINAL BUILDING ASSEMBLY AND ALL APPLICABLE WARRANTIES ARE MAINTAINED.
4. IF IT DEEMED NECESSARY TO REMOVE EXISTING FINISHES AND/OR MATERIALS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECONSTRUCTING FINISHES AND MATERIALS TO USE NEW CONDITION CONTRACTOR SHALL MAINTAIN THE ORIGINAL COLORS, TEXTURES & FINISHES UNLESS SPECIFICALLY NOTED TO THE CONTRARY OR APPROVED BY THE SPRINT CONSTRUCTION MANAGER IN ADVANCE.

4. AT THE SPRINT CONSTRUCTION MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE ROOFING WALK PADS TO ALL NEW EQUIPMENT INCLUDING ANTENNAS AND BTS UNITS AND EQUAL COAX CABLE ROUTING. ON CONVENTIONAL ROOFING, THE WALK PADS SHALL BE "TOUR BOARDS" AS MANUFACTURED BY APC OR EDALON ON SPECIAL ROOFING SYSTEMS SUCH AS MEMBRANE ROOFING, ROOFS SHALL REQUIRE A SPECIFIC PRODUCT AS NOTED ON PLANS OR AS REQUIRED BY NOTES 1 & 2 ABOVE.

PENETRATION AT FIRE RATED ASSEMBLIES

1. AT THE SPRINT PROJECT MANAGER'S DIRECTION, THE CONTRACTOR SHALL PROVIDE "UL" HIGH PERFORMANCE FIRE STOP SYSTEM (FSO) AT ALL FIRE RATED PENETRATIONS INSTALLED PER MANUFACTURER'S LATEST INSTALLATION SPECIFICATIONS.
2. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL BE CONSTRUCTED SO AS TO MAINTAIN AN EQUAL OR GREATER FIRE RATING.

WORK ENVIRONMENT

1. CONTRACTOR AND CREW SHALL ADOBE BY THE UNITED STATES DEPARTMENT OF LABOR'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STANDARDS (OSHA) AS DESCRIBED IN OSHA'S HANDBOOK OF GUIDELINES.
2. CONTRACTOR AND CREW SHALL ADOBE BY SPRINT SAFETY STANDARDS AS DESCRIBED IN SPRINT'S SAFETY HANDBOOK.

PAINTING NOTES & SPECIFICATIONS

1. ALL PAINT PRODUCT LINES SHALL BE SHERWIN WILLIAMS UNLESS OTHERWISE SPECIFICALLY NOTED OTHERWISE.
2. CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
3. COMPLY WITH CONTRACTOR'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
4. FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH EXISTING ADJACENT SURFACES UNLESS OTHERWISE NOTED.
5. ALL PAINT MATERIAL DATA SHEETS SHALL BE PROVIDED TO THE SPRINT CONSTRUCTION MANAGER.
6. PREPARE PREVIOUSLY PAINTED SURFACE BY LIGHT SANDING WITH 60 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
7. FLUSHING DIRT CLOTHES, SHOEDS, WASHING AND PROTECTIVE MEASURES TO PREVENT SPRAY OR DRIPS/SPILLS FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
8. APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
9. APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
10. CONTRACTOR SHALL CORRECT RIMS, SACS, WISSES AND OTHER DEFECTS INCLUDING IMMEDIATE COVERAGE AS DIRECTED BY THE SPRINT CONSTRUCTION MANAGER. REPAIRS AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVEN COATED WITH UNIFORM SHEEN AND FREE FROM DRIBBLES.

PAINTING SCOPE

ITEM	DESCRIPTION	QTY	UNIT
1	PAINTING OF EXTERIOR WALLS	1000	SQ. FT.
2	PAINTING OF INTERIOR WALLS	2000	SQ. FT.
3	PAINTING OF CEILING	1000	SQ. FT.
4	PAINTING OF FLOOR	500	SQ. FT.
5	PAINTING OF ROOF	100	SQ. FT.
6	PAINTING OF METAL SURFACES	500	SQ. FT.
7	PAINTING OF CONCRETE SURFACES	1000	SQ. FT.
8	PAINTING OF WOOD SURFACES	500	SQ. FT.
9	PAINTING OF GLASS SURFACES	100	SQ. FT.
10	PAINTING OF OTHER SURFACES	100	SQ. FT.

1. PAINTING SCOPE
1. THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

1. ODM ACRYLIC SPECIFICATIONS
1. ODM ACRYLIC SPECIFICATIONS (SERIES 866) BY SHERWIN WILLIAMS CO. 1ML DPT. COAT APPLIED IN TWO COATS OVER DRY BONDING PRIMER (866A50).
1. 100% ACRYLIC LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DPT. COAT APPLIED IN TWO COATS OVER SPECIFIED PRIMER, PAINT & PRIMER
1. ANTENNAS
PRIMER - KEW AQUA E81-8525
TOPCOAT - CORDIANTHANE B 8658200/86022
1. BTS CABINET
PRIMER - KEW AQUA E81-8525
TOPCOAT - CORDIANTHANE B 8658200/86022
1. COAXIAL JUMPER CABLES
PRIMER - AS REQUIRED FOR ADHESION, APPLY ONE COAT OF KEW AQUA WATER REDUCIBLE PRIMER E8125 REDUCED 25%
TOPCOAT - 2 COATS CORDIANTHANE B POLYURETHANE 8658200/86022
1. RAIN STEEL
PRIMER - KEW BOND HS B50W24, ODM ACRYLIC PRIMER
TOPCOAT - 2 COATS CORDIANTHANE B POLYURETHANE 8658200/86022
1. GALVANIZED METAL
ACID ETCH WITH COMMERCIAL ETCH OR VINYLIC ACID PRIMER COAT AND FINISH COAT (CALCITE HIGH SOLIDS OR ODM PRIMER/FINISH)
1. STAINLESS STEEL
PRIMER - ODM WASH PRIMER, B2711
TOPCOAT - 2 COATS CORDIANTHANE B POLYURETHANE 8658200/86022
1. PRE-PRIMED STEEL
TOPCOAT UP ANV CORR OR UN-PRIMED STEEL WITH KEW BOND HS. S50W24
1. ALUMINUM & COPPER
PRIMER - ODM WASH PRIMER, B2711
TOPCOAT - 2 COATS CORDIANTHANE B POLYURETHANE 8658200/86022
1. CONCRETE MASONRY
PRIMER - PRO MAR EXTERIOR BLOCK FILLER
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH CONCRETE SURFACE(EXTENDING)
1. STUCCO
PRIMER - PRO MAR MASONRY CONTAINER B-46-W2100
TOPCOAT - SUPER PAINT A-80 SERIES A-89 SAINN A-84 GLOSS
1. WOOD
PRIMER - A-100 EXTERIOR ALKO WOOD PRIMER V-24W20
TOPCOAT - 2 COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES
1. FIELD CUTS/DAMAGES(FLOOR TO PRIME & PAINT)
PRIMER & SECOND COAT = CLIPKROL CLEAR WOOD PRESERVATIVE #158-0356
ALL PENETRATIONS INTO FINISHED CEILING SHALL BE CALKED WITH "SIRKALAC" SEALANT
1. STEEL TOUCH UP
STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT

STRUCTURAL SPECIFICATIONS

1. GENERAL: PRECEDENCE: UNLESS OTHERWISE SHOWN OR SPECIFIED, THE FOLLOWING GENERAL NOTES SHALL APPLY. INFORMATION ON THESE DRAWINGS SHALL HAVE THE FOLLOWING PRECEDENCE:
A. ALL DIMENSIONS TO TAKE PRECEDENCE OVER SCALE SHOWN ON PLANS, SECTIONS AND DETAILS.
B. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
C. MATERIAL, NOTES AND SPECIFICATIONS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER THE SPECIFICATIONS.
2. OTHER TRADES: SEE THE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
3. GENERAL DETAILS AND NOTES ON THESE SHEETS SHALL APPLY UNLESS SPECIFICALLY SHOWN OR NOTED OTHERWISE. CONSTRUCTION DETAILS NOT FULLY SHOWN OR NOTED SHALL BE SIMILAR TO DETAILS SHOWN FOR SIMILAR CONDITIONS.
4. SHOWING: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL ALL TEMPORARY BRACING AND SHORING TO INSURE THE SAFETY OF THE WORK. UNTIL IT IS ITS COMPLETED FORM THIS INCLUDES UNDERPINNING EXISTING FOOTINGS WHERE APPLICABLE.
5. SAFETY: THESE STRUCTURAL DRAWINGS REPRESENT THE FINISHED STRUCTURE UNLESS OTHERWISE INDICATED. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
6. WATERPROOFING: WATERPROOFING AND DRAINAGE DETAILS AND SPECIFICATIONS, ALTHOUGH SOMETIMES SHOWN ON STRUCTURAL DRAWING ARE OF GENERAL INFORMATION PURPOSES ONLY. WATERPROOFING AND DRAINAGE ARE SOLELY THE DESIGN RESPONSIBILITY OF THE ARCHITECT.
7. STEEL
1. ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS SHALL CONFORM TO ASTM A-36 AND BE FABRICATED IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AISC.
2. ALL BOLTS SHALL CONFORM TO ASTM A-307 UNLESS OTHERWISE NOTED ON PLANS. HIGH STRENGTH BOLTS SHALL CONFORM TO ASTM A-325.
3. STEEL PIPE COLUMNS SHALL BE GRADE "B" CONFORMING TO ASTM A53.
4. STEEL TUBING SHALL BE GRADE "B" CONFORMING TO ASTM A500.
5. ALL WELDING SHALL BE DONE BY THE SHIELDED ARC METHOD. ALL WELDERS SHALL BE PROPERLY QUALIFIED AND BE PRE-APPROVED. SURPLUS METAL SHALL BE DRESSED OFF TO SMOOTH, EVEN SURFACES WHERE WELDS ARE NOT EXPOSED TO VIEW. ALL WELDING SHALL COMPLY WITH THE LATEST A.W.S. SPECIFICATIONS.
6. THE FOLLOWING WELDING EQUIPMENT MUST BE USED:
A. 250 AMP WELDERS.
B. ROOF OPEN.
7. NO BUZZ BONES SHALL BE USED.
8. ALL STRUCTURAL STEEL SHALL BE CERTIFICATION WILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE DESIGN ENGINEER AND THE CITY INSPECTOR.
9. ALL HIGH STRENGTH BOLTS SHALL HAVE MILL CERTIFICATION WILL CERTIFICATION SHALL BE KEPT ON THE JOB SITE FOR EXAMINATION BY THE INSPECTOR.
10. STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZING PAINT.
11. WELDING INDICATED IN THESE DRAWINGS IS DESIGNED FOR ONE HALF OF ALLOWABLE CODE STRESSES UNLESS SPECIFICALLY NOTED "FULL STRESS" AT END OF WELD SYMBOL.
12. CONCRETE
1. STRENGTH: CONCRETE FOR THE PROJECT SHALL HAVE THE FOLLOWING ULTIMATE COMPRESSIVE STRENGTH AT AGE OF 28 DAYS:
LOCATION STRENGTH WT SLUMP ADMIXTURE
A. SLAB/FLOORING 2500psi 150pcf 4" NONE
2. INSPECTION: CONCRETE WITH SPECIFIED STRENGTH GREATER THAN 2500PSI SHALL BE CONTINUOUSLY INSPECTED DURING PLACEMENT BY A QUALITY INSPECTOR EMPLOYED BY A TESTING LABORATORY APPROVED BY THE BUILDING DEPT.
3. REBAR CAGES: REINFORCING STEEL SHALL BE CLEAN PERFORMED BARS CONFORMING TO ASTM A615 AS FOLLOWS
#4 & SMALLER BARS.....GRADE 40
#5 & LARGER BARS.....GRADE 60
ALL BARS AT CANTON FOOTING, GRADE 60
4. CEMENT: FOUNDATIONS & SLABS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
PIEP/CAISSON FLOORS: TYPE V, LOW ALKALI, CONFORMING TO ASTM C-150.
5. AGGREGATE: USED IN THE CONCRETE SHALL CONFORM TO ASTM C-33. USE ONLY AGGREGATES KNOWN NOT TO CAUSE EXCESSIVE SHRINKAGE. THE MAXIMUM SIZE AGGREGATE IN CONCRETE WORK SHALL BE THE FOLLOWING
A. FOUNDATIONS & SLABS 3" OR LESS 3/4" GRAVEL.
B. PIEP/CAISSON FLOORING, 1" GRAVEL.
6. WATER: SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNT OF ACIDS, OILS, ALKALIS, ORGANIC MATERIALS AND SHALL BE AVAILABLE FOR HUMAN CONSUMPTION.

7. MIXING: PREPARATION OF CONCRETE SHALL CONFORM TO ASTM C-94. NO MORE THAN 90 MINUTES ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY A TESTING AGENCY.
8. SEGREGATION OF AGGREGATES: CONCRETE SHALL NOT BE FLOPPED THROUGHOUT SMALL STEEL CAS IN WALL COLUMNS, CAISSONS, AND DROP CAPPIERS, SO AS TO CAUSE SEGREGATION OF AGGREGATES. USE HOPPERS, CHUTES, TRUNKS OR PUMP HOSE SO THAT THE FREE UNOCCUPIED FALL OF CONCRETE SHALL NOT EXCEED 7 FT.
9. SPLICES OF REINFORCING STEEL SHALL BE LAPPED A MINIMUM OF 30 DIAMETERS AND SECURELY WROED TOGETHER. SPLICES OF ADJACENT REINFORCING BARS SHALL BE STAGGERED WHEREVER POSSIBLE.
10. REAR CLEARANCE: MINIMUM COVERAGE FOR JOISTS, BEAMS, OPENS AND COLUMNS SHALL BE TO FACE OF STRUTS OR TEES UNLESS OTHERWISE NOTED. CONCRETE COVERAGE FOR REINFORCING BARS TO FACE OF BAR SHALL BE AS FOLLOWS
A. CONCRETE IN CONTACT WITH EARTH, UNFORMED 3"
B. CONCRETE IN CONTACT WITH FORTH, FORMED 2"
C. WALL, EXTERIOR FACE 1-1/2"
D. WALL, INTERIOR FACE 3/4"
E. STRUCTURAL SLABS 3/4"
F. JOISTS 3/4"
G. BEAMS, GIRDERS & COLUMNS 1-1/2"
11. PENETRATIONS: NO SLEEVES OR CHASES SHALL BE PLACED IN BEAMS, SLABS OR WALLS UNLESS SPECIFICALLY NOTED ON THE PLANS. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR PENETRATIONS OF ANY KIND INCLUDING SLEEVES OR CHASES. ALL PLUMBING, ELECTRICAL AND MECHANICAL OPENINGS SHALL BE SLEEVES. CORING IS NOT ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
12. EMBEDDED ITEMS: CONDUIT PLACED IN A CONCRETE SLAB SHALL NOT HAVE AN OUTSIDE DIAMETER GREATER THAN 1/4 THE THICKNESS OF THE SLAB CONDUIT SHALL NOT BE EMBEDDED IN A SLAB THAT IS LESS THAN 3-1/2" THICK, UNLESS SLAB IS LOGICALLY THICKENED. MINIMUM CLEAR DISTANCE BETWEEN CONDUITS SHALL BE SIX INCHES.
13. ANCHORING: ALL ANCHOR BOLTS, REINFORCING STEEL, DOWELS, INSERTS, ETC. SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE. NO REPOSITIONING DURING CONCRETE POUR IS ALLOWED.
14. CURING: SLABS SHALL BE SPRAYED WITH A CURING COMPOUND IMMEDIATELY AFTER FINISHING. CURING COMPOUNDS USED ON CONCRETE WHERE FLE OF FLOOR COVERING IS TO BE BONDED TO THE CONCRETE SURFACE SHALL BE APPROVED BY THE TIE OF FLOOR COVERING MANUFACTURER. KEEP SLAB WET FOR 7 DAY MINIMUM PERIOD.
15. CONSOLIDATION: ALL CONCRETE SHALL BE VIBRATED AS IT IS BEING PLACED WITH ELECTRICALLY OPERATED VIBRATING EQUIPMENT.
16. TIMBER
1. ALL FRAMING LUMBER FOR 4X AND LARGER BEAMS SHALL BE NO. 1 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
2. ALL FRAMING LUMBER FOR 2X BATTERIES AND JOISTS SHALL BE NO. 2 GRADE DOUGLAS FIR, S4S, UNLESS NOTED OTHERWISE ON THE DRAWINGS.
3. STRIPPING, BLOCKING, BRACING AND OTHER NON-STRUCTURAL LUMBER SHALL BE NO. 1 OR STD. & BTR. GRADE DOUGLAS FIR, S4S 2X4 STUD WALLS SHALL BE D.F. STANDARD & BTR.
4. ALL BEAMS, JOISTS AND BATTERS SHALL BE INSTALLED WITH CROWN SIDE UP.
5. ROOF PLYWOOD SHALL MATCH EXISTING PLYWOOD SHEATHING WITH A SPAN INCHES RATIO .32/16. EDGE NAIL WITHING AT 6" O.C. UNLESS NOTED OTHERWISE ON PLANS. FIELD NAIL WITH IN 12" O.C.
6. PLYWOOD SHEETS SHALL BE LAD WITH THE FACE GRAY HORIZONTAL TO SUPPORTS AND WITH THE EDGES STAGGERED, UNLESS NOTED OTHERWISE ON THE PLANS.
7. PLYWOOD SHALL BE GRADE MARKED BY DEPA, TECO, OR PTL AND SHALL CONFORM TO PS 1-83.
8. THE MAXIMUM MOISTURE CONTENT OF ALL LUMBER SHALL NOT EXCEED 24% AT THE TIME OF INSTALLATION.
9. MINIMUM NAILING SHALL COMPLY WITH TABLE 23-1 OF BUILDING CODE. ALL NAILS SHALL BE COMMON WIRE NAILS.
10. ALL BOLTS SHALL HAVE STANDARD CUT WASHERS UNDER HEADS AND/OR NUTS WHERE IN CONTACT WITH WOOD.
11. LAG BOLTS SHALL BE SLOWED INTO PLACE, NOT DRIVEN. LAG BOLTS SHALL BE INSTALLED IN PRE-DRILLED HOLES WITH A DIAMETER EQUAL TO 75% DIAMETER OF BOLT.
12. CONNECTORS: ALL SHEET METAL FRAMING CONNECTORS SHOWN IN THE PLANS SHALL BE STRONG CONNECTORS AS MANUFACTURED BY THE SANSON COMPANY. SUBSTITUTIONS MAY BE MADE WHEN APPROVED BY THE STRUCTURAL ENGINEER.
13. ALL LUMBER EXPOSED TO WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE WOLMANIZED PRESSURE TREATED LUMBER OR A NATURALLY OCEAN RESISTANT LUMBER SUCH AS REDWOOD OR CEDAR.
14. ALASKAN YELLOW CEDAR GLEU-LAMINATED BEAMS
A. LUMBER SPECIES: ALASKAN YELLOW CEDAR (A.C.) CONFORMING TO 20F-120 COMMON LUMBER GRADE
B. STRENGTH PROPERTIES:
Fy BOTTOM FIBER BENDING STRESS 2000psi MIN
Ft TOP FIBER BENDING STRESS 2000psi MIN
Fv SHEAR STRESS 1800psi MIN
Fc COMPRESSION STRESS PERPENDICULAR TO GRAIN 550psi MIN
Ft MODULUS OF ELASTICITY 1400psi MIN
C. CAMBER TO RADIUS OF 1000' U.O.V.
D. ALL GLEU'S SHALL BE FABRICATED EXTERIOR GLEU.
E. MANUFACTURE OF GLEU'S SHALL CONFORM TO THE U.S.C.
F. GLEU-LAM MATERIAL SHALL BE IN ACCORDANCE WITH ANS/A1C A100.1 AND ASTM D3737.

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SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM 57696003
ORACLE ARENA 57696004

7000 COULOUSE WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: **05/09/13**

ISSUED FOR:

CLIENT COMMENTS:

REV.	DATE	DESCRIPTION	INT.
1	03/01/13	BOOK CD REVIEW (P3-B1)	JH
2	04/02/13	BOOK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WH
4	05/09/13	CLIENT COMMENTS (P3-B4)	WH

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LICENSEE:

SHEET TITLE:

SPECIFICATIONS AND NOTES

SHEET NUMBER: **T-2** REVISION: **3**

BATTERY INFORMATION/ NOTES:

BATTERY MFG	EAST PENN MANUFACTURING	A. QUANTITIES OF 50 GALLONS OR LESS ARE EXEMPT PER TABLE 3-2 OF THE 2010 C.F.C.
MODEL NUMBER	154VR-14SL	B. SINGLE VESSEL CAPACITIES OF 10 GALLONS OR LESS, AND AGGREGATE QUANTITIES NOT IN EXCESS OF 100 GALLONS ARE EXEMPT PER ARTICLE 64 OF THE 2010 C.F.C.
ELECTROLYTE CONTENT PER BATTERY:	2.17 GALLONS	C. QUANTITIES LESS THAN 50 GALLONS ARE EXEMPT FROM C.F.C. ARTICLE 60, AND SHALL NOT REQUIRE REKIT.
ELECTROLYTE HAZARD CLASSIFICATION PER 107 C.F.C. (8.7% SULFURIC ACID)	CORROSIVE	D. ANY CHANGES OR ADDITIONS TO BACK-UP BATTERIES MUST COMPLY WITH 2010 C.F.C. ARTICLE 64, AND SHALL NOT CONTAIN ELECTROLYTE QUANTITIES IN EXCESS OF 50.
NUMBER OF BATTERIES TO BE INSTALLED	40 MAX (20 PER CABINET)	
TOTAL ELECTROLYTE CONTAINED ON SITE (2.17 x 20):	43.4 GALLONS MAX	

FIRE DEPARTMENT NOTES:

- FIRE DEPARTMENT FINAL INSPECTION REQUIRED. SCHEDULE INSPECTION 2 DAYS IN ADVANCE.
- A CFC PERMIT TO OPERATE BATTERY SYSTEMS WITH STATIONARY LEAD-ACID BATTERIES IS NOT REQUIRED FOR THE QUANTITIES ON SITE.
- A CFC PERMIT MAY BE REQUIRED FOR THE HAZARDOUS MATERIALS ON SITE.
- A HAZARDOUS MATERIALS IDENTIFICATION SIGN IS REQUIRED FOR ALL ENTRANCES INTO BATTERY STORAGE AREAS. LETTERS MUST BE AT LEAST 1" IN HEIGHT AND IN A COLOR WHICH CONTRASTS TO THE BACKGROUND OF THE SIGN AND LIST THE FOLLOWING:

CLASS 1 WATER REACTIVE LIQUID
TOXIC LIQUID
CORROSIVE LIQUID
OTHER HEALTH HAZARD LIQUID

- AN APPROVED METHOD TO NEUTRALIZE SUPPLIED ELECTROLYTE SHALL BE PROVIDED IN THE BATTERY ROOM.
- BATTERIES SHALL BE PROVIDED WITH SAFETY VENTING CAPS.
- LOCATIONS AND CLASSIFICATIONS OF EXTINGUISHERS SHALL BE IN ACCORDANCE WITH THE UNIFORM FIRE CODE STANDARD 10-1 AND PLACEMENT IS SUBJECT TO APPROVAL OF THE INSPECTOR.
- STORAGE, DISPENSING OR USE OF ANY FLAMMABLE AND COMBUSTIBLE LIQUIDS, FLAMMABLE AND COMPRESSED GASES, AND OTHER HAZARDOUS MATERIALS SHALL COMPLY WITH UNIFORM FIRE CODE REGULATIONS.
- EXIST DOORS SHALL BE ABLE TO OPEN FROM THE INSIDE WITHOUT THE USE OF KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT.
- ADDRESS NUMBERS SHALL BE A MINIMUM 6 INCHES HIGH AND PLAINLY VISIBLE FROM ROADWAY BUILDING (1. IS ADDRESSED ON).
- REQUIRED SIGNAGE SHALL INCLUDE LETTERING HEIGHT OF AT LEAST ONE INCH IN A COLOR THAT CONTRASTS TO THE SIGN BACKGROUND, AND SHALL BE PROMINENTLY DISPLAYED.
- REQUIRED SIGNAGE SHALL INCLUDE BUT MAY NOT BE LIMITED TO APPLICABLE TYPES FROM EXAMPLES SHOWN HEREIN. SEE DETAILS 1, 2, AND 3.



REQUIRED NFPA SIGNAGE

IN CASE OF EMERGENCY
CALL
1-866-400-6040
SITE NUMBER: SF96XC003
SITE NAME: OAKLAND-COLISEUM

EMERGENCY CONTACT SIGNAGE

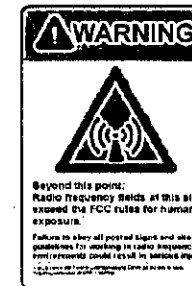
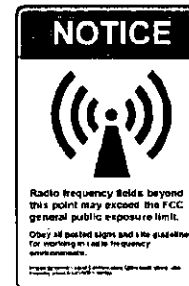
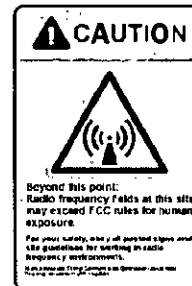
SITE IDENTIFICATION SIGNAGE

3



HAZARDOUS MATERIAL SIGNAGE

2



SITE IDENTIFICATION SIGNAGE

4

RF SIGNAGE

1



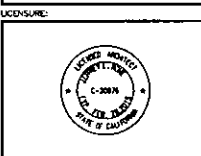
PROJECT INFORMATION:
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SF96XC003
ORACLE ARENA SF96XC004
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS				
REV	DATE	DESCRIPTION	INT	BY
1	03/01/13	RFID CD REVIEW (P3-B1)	JH	
2	04/02/13	RFID CD REVIEW (P3-B2)	JH	
3	04/30/13	CLIENT COMMENTS (P3-B3)	WH	
4	05/09/13	CLIENT COMMENTS (P3-B4)	WH	

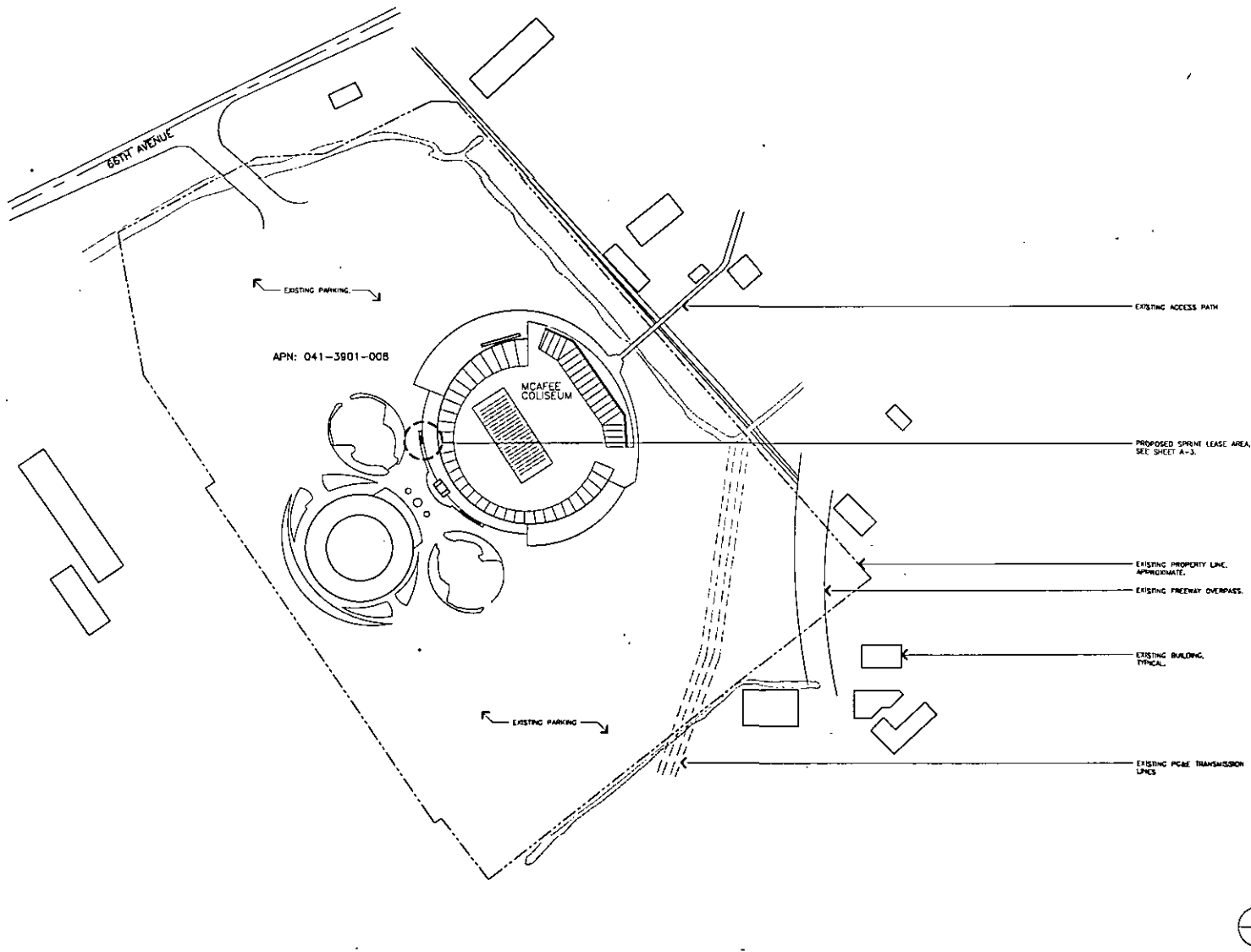
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SIGNAGE AND NOTES

SHEET NUMBER: T-3
REVISION: 3

REV. 008 12/11/12



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PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SF96XCD03
 ORACLE ARENA SF96XCD04
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

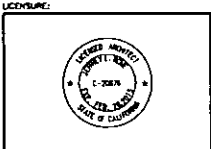
ISSUED DATE:
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REVISIONS

REV	DATE	DESCRIPTION	INT
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2	04/02/13	WORK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS(P3-B3)	NW
4	05/09/13	CLIENT COMMENTS(P3-B4)	NW

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SHEET TITLE:
OVERALL SITE PLAN

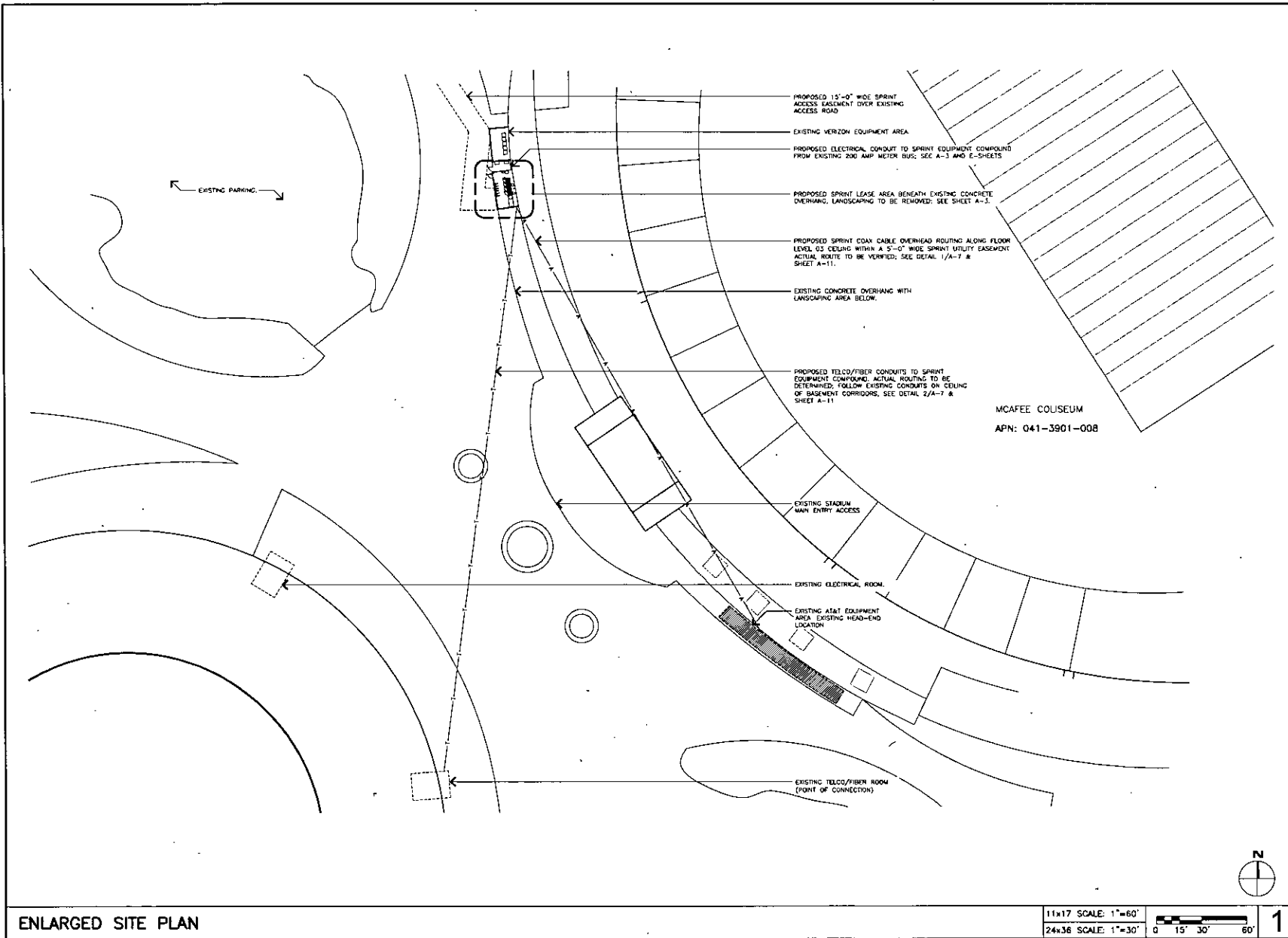
SHEET NUMBER: **A-1** REVISION: **3**

OVERALL SITE PLAN

11x17 SCALE: 1"=400'
 22x34 SCALE: 1"=200'
 0 100' 200' 400'



JAL JOB NUMBER: 12118



PROJECT INFORMATION:

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SP76XK003
ORACLE ARENA SP76XK004

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:

05/09/13

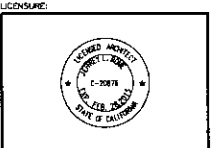
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CLIENT COMMENTS

REVISIONS

REV.	DATE	DESCRIPTION	INT.
1	03/01/13	BOOK CD REVIEW (P3-B1)	JH
2	04/02/13	100% CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW

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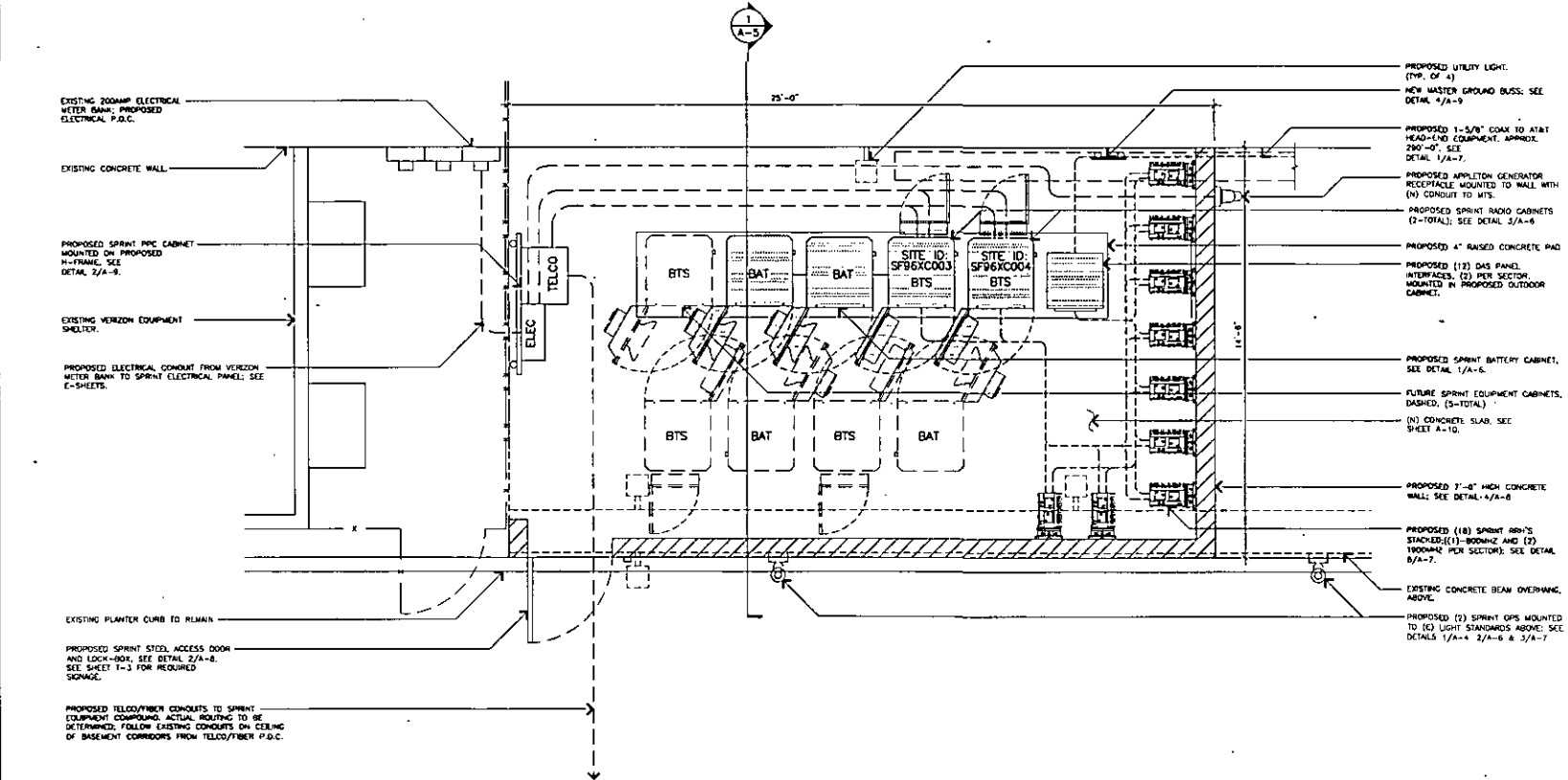
ENLARGED SITE PLAN

SHEET NUMBER: **A-2** REVISION: **3**

JRA JOB NUMBER: 123149

EQUIPMENT PLAN SYMBOL LEGEND

- BTS PROPOSED SPRINT BTS CABINET.
- BAT PROPOSED SPRINT BATTERY CABINET.
- ELEC PROPOSED FIBER AND DC DISTRIBUTION BOX.
- PROPOSED FIBER AND DC CONDUIT.



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PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SFP06XC003
 ORACLE ARENA SFP06XC004
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

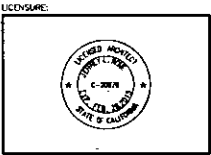
ISSUED DATE:
 05/09/13

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 CLIENT COMMENTS

REVISIONS

REV	DATE	DESCRIPTION	INT
1	03/01/13	NOTE CD REVIEW (P3-B1)	JH
2	04/02/13	NOTE CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WH
4	05/09/13	CLIENT COMMENTS (P3-B4)	WH

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SHEET TITLE:
EQUIPMENT PLAN

SHEET NUMBER: **A-3** REVISION: **3**

PROPOSED EQUIPMENT PLAN

11X17 SCALE: 1/4"=1'-0"
 22X34 SCALE: 1/2"=1'-0"
 0 1' 2' 4' 1

JOB NUMBER: 121119



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PROJECT INFORMATION
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OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SP765C0003
 ORACLE ARENA SP765C0004
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

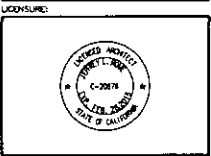
ISSUED DATE:
 05/09/13

ISSUED FOR:

CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/20/13	SDR CD REVIEW (P3-B1)	JH
2	04/02/13	DOOR CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW

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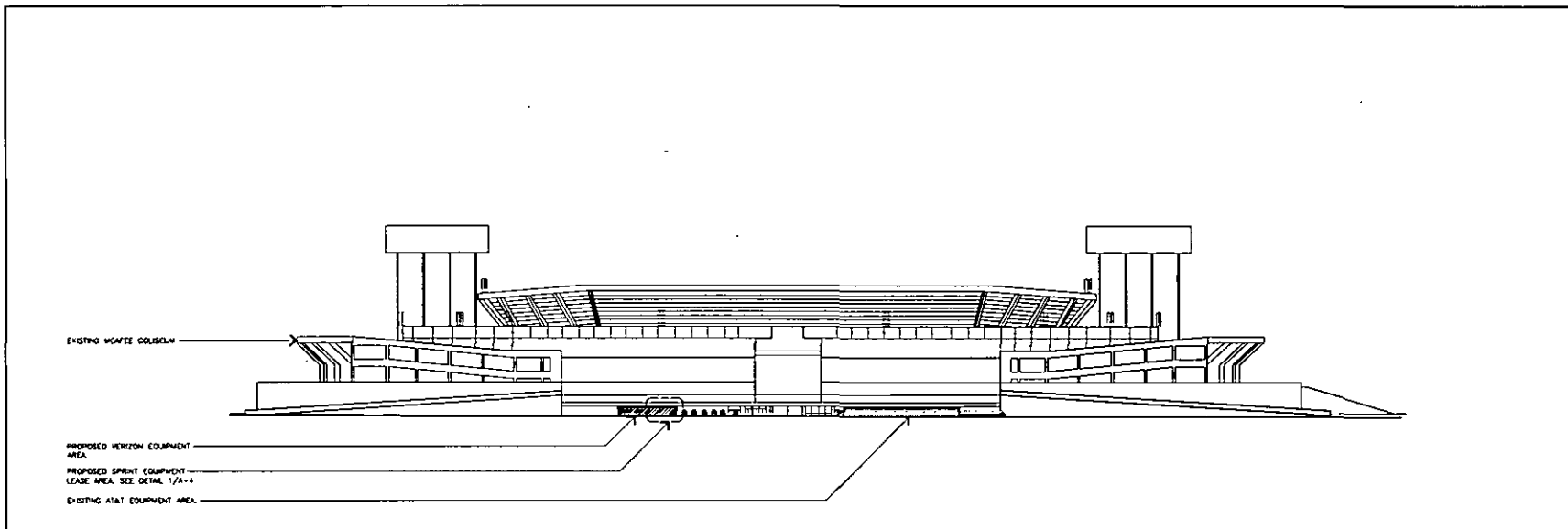


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ELEVATIONS

SHEET NUMBER: REVISION:

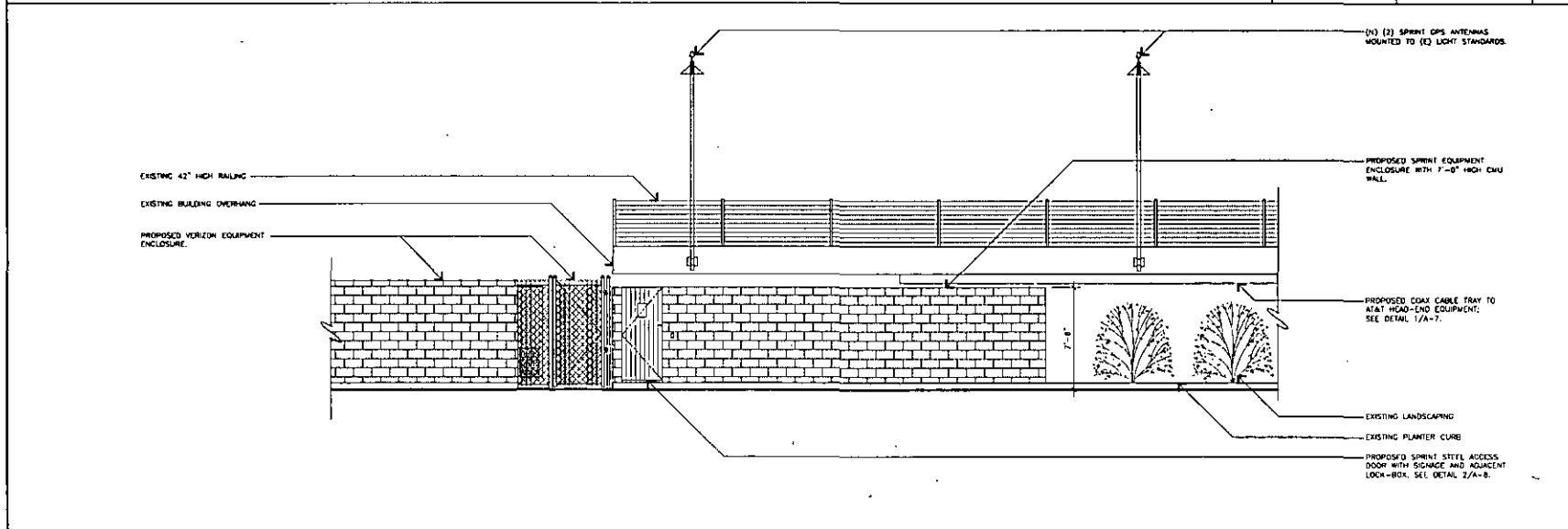
A-4 **3**

JAY JOE HANDEE 12/1/12



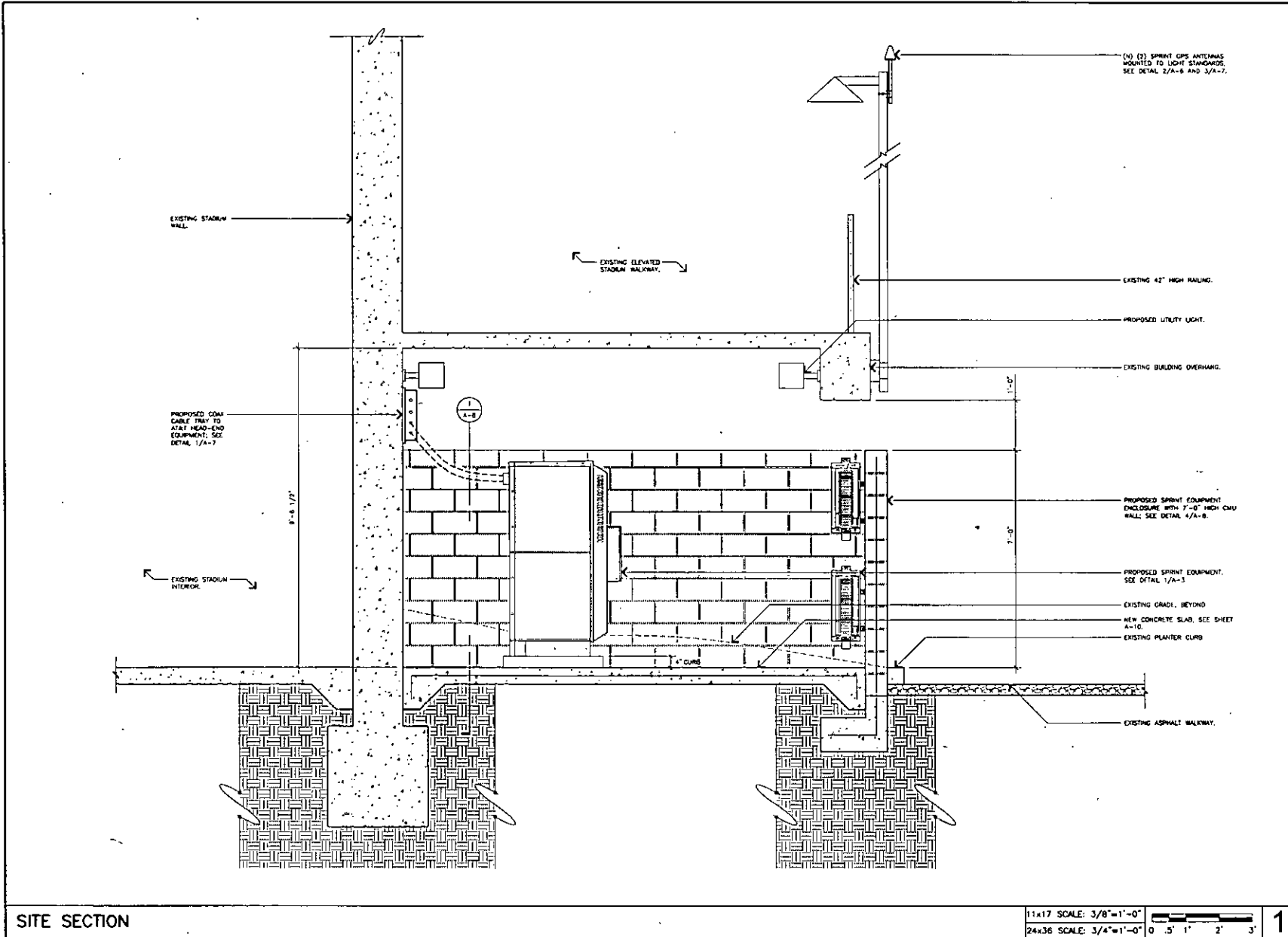
SOUTHWEST ELEVATION

11x17 SCALE: 1"=100'
 24x36 SCALE: 1"=50' 0 25' 50' 100' **2**



ENLARGED SOUTHWEST ELEVATION

11x17 SCALE: 1/8"=1'-0"
 24x36 SCALE: 1/4"=1'-0" 0 2' 4' 8' **1**



CORTEL COMMUNICATIONS
 8300 West Le Monde
 Las Vegas, Nevada 89120

JRA
 Jeffrey Rowe & Associates, Inc.
 Architects & Telecommunications
 1 San Joaquin Plaza, Suite 250
 Newport Beach, California 92660
 Phone: (949) 760-3929
 Fax: (949) 760-3931

PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
 OAKLAND COLISEUM SP93C003
 ORACLE ARENA SP96C004
 7000 COLISEUM WAY
 OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS

REV.	DATE	DESCRIPTION	INT
1	03/01/13	BOOK CD REVIEW (P3-B1)	JH
2	04/02/13	BOOK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	HW
4	05/09/13	CLIENT COMMENTS (P3-B4)	HW

NOT FOR CONSTRUCTION UNLESS
 LABELED AS CONSTRUCTION SET



SHEET TITLE:
SITE SECTION

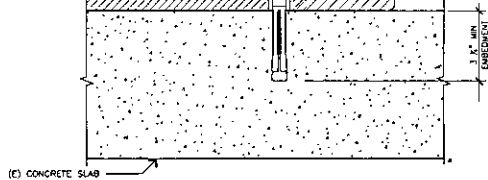
SHEET NUMBER	REVISION
A-5	3

11x17 SCALE: 3/8"=1'-0"
 24x36 SCALE: 3/4"=1'-0"
 0 .5' 1' 2' 3'

JRA JOB NUMBER: 121118

(N) SPRINT EQUIPMENT CABINET.

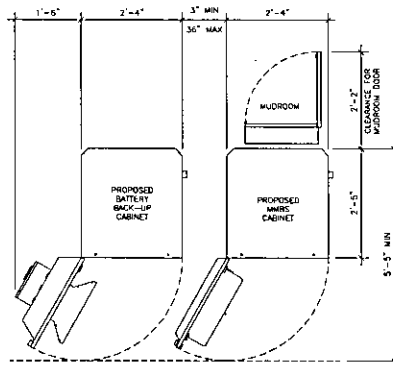
(N) 1/2" x 1/2" MULTI KWIK BOLT T2
STAINLESS ANCHOR IN CONCRETE.
SPECIAL INSPECTION REQUIRED (ISR-1917).
DIRECT TENSION TEST LOAD = 1500#



(C) CONCRETE SLAB

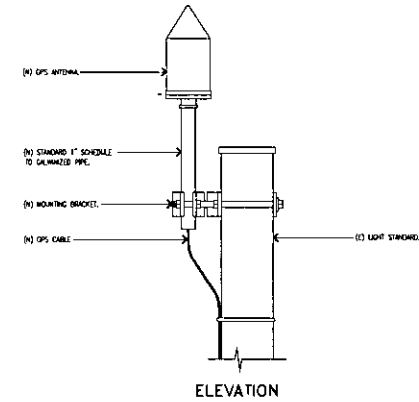
CABINET ANCHORAGE

SCALE:
NONE **5**



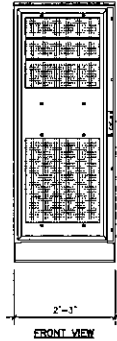
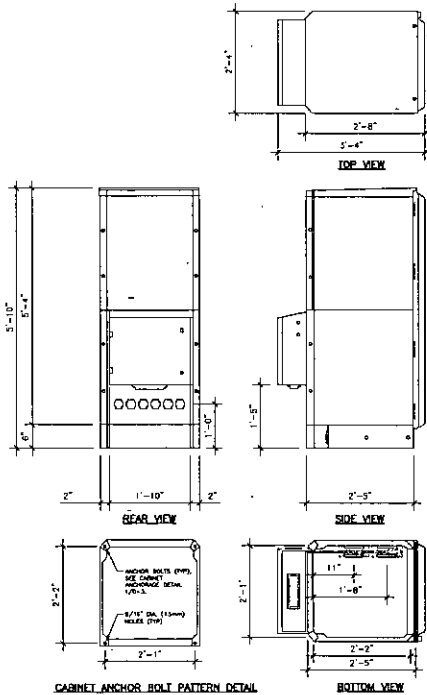
MMBS TYPICAL FLOOR PLAN

SCALE:
NONE **4** GPS UNIT PIPE MOUNT



ELEVATION

SCALE:
NONE **2**



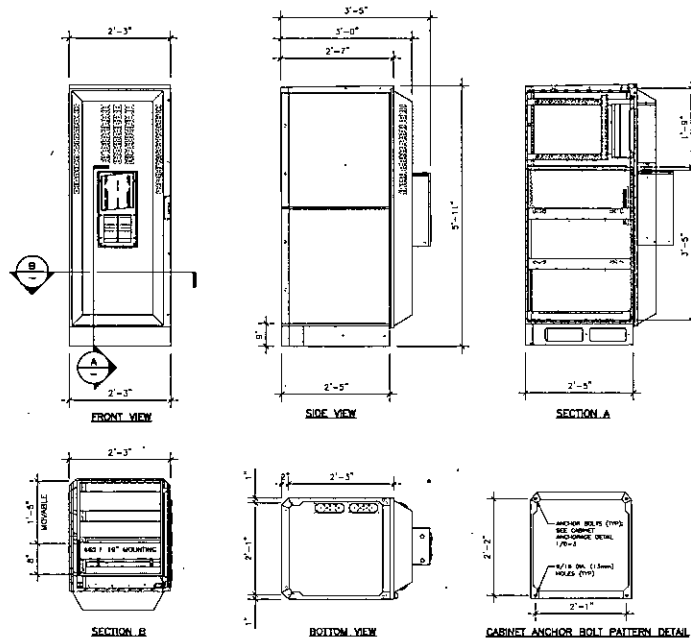
WEIGHT
OUTDOOR MMBS 738 LBS
COMBO CABINET 1,270 LBS

MMBS CABINET SPECIFICATIONS

SCALE:
NONE **3**

BATTERY BACK-UP CABINET

SCALE:
NONE **1**



NOTE: FOR BATTERY INFORMATION
SEE DETAIL S/A-7.
WEIGHT
CABINET 370 LBS
BATTERY STRING (4 MAXIMUM) 528 LBS
TOTAL WEIGHT 2,568 LBS

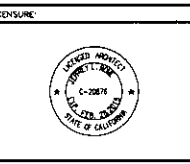


PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SPS96X003
ORACLE ARENA SPS96X004
7000 DOLSEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

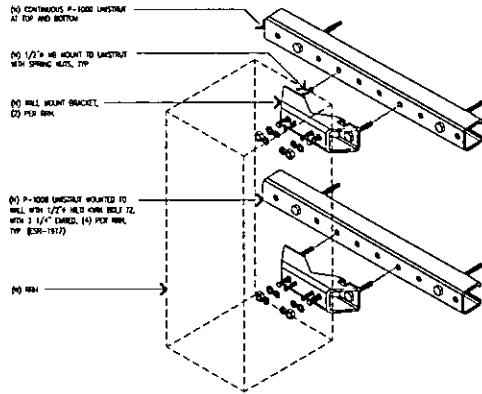
REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	SOX CD REVIEW (P3-B1)	JH
2	04/02/13	100X CD REVIEW (P3-E2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MM
4	05/09/13	CLIENT COMMENTS (P3-B4)	MM



EQUIPMENT DETAILS

SHEET NUMBER **A-6** REVISION **3**

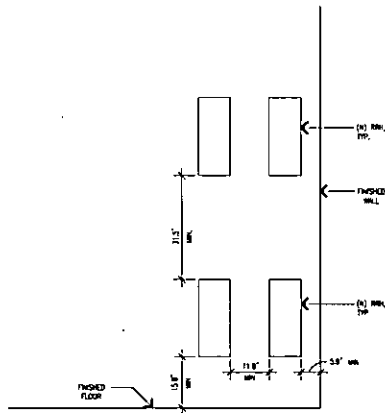
JRA JOB NUMBER: 123149



SEE DETAILS 5 & 6/A-7 AND 7/A-7 FOR ADDITIONAL INFO.

RRH MOUNT

SCALE: NONE **8**

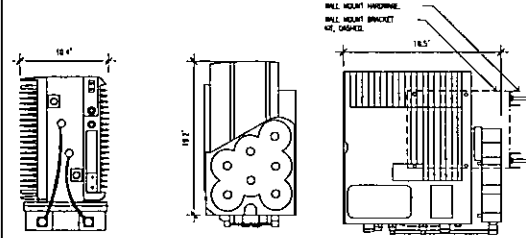


RRH SPACING

SCALE: NONE **7**

800 MHz RRH

MODEL: 800 MHz
WEIGHT: 69 LBS



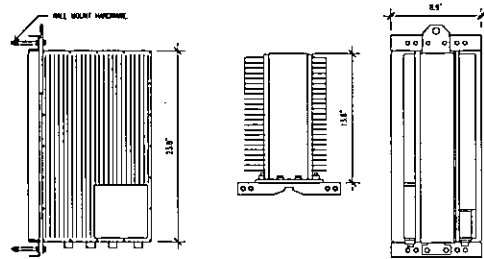
BOTTOM VIEW RIGHT VIEW FRONT VIEW

800 MHz RRU SPECIFICATIONS

SCALE: NONE **6**

1900 MHz RRH

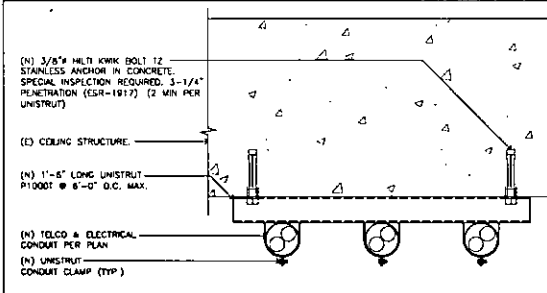
MODEL: 1900 MHz
WEIGHT: 60 LBS



LEFT SIDE TOP VIEW FRONT VIEW

1900 MHz RRU SPECIFICATIONS

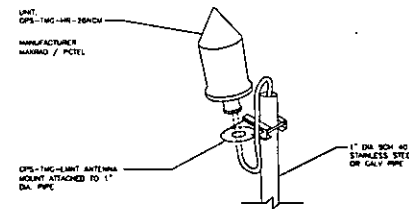
SCALE: NONE **5**



NOTES:
1. CONTRACTOR TO XRAY SLAB PRIOR TO DRILLING.
2. DO NOT CUT ANY STEEL OR CABLES.
3. PAINT TO MATCH (E) CEILING.

CEILING MOUNTED CONDUITS

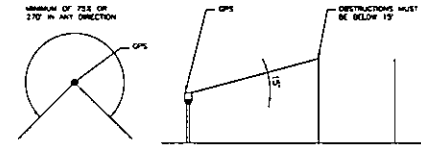
SCALE: NONE **4**



NOTE:
1. THE GPS ANTENNA MOUNT IS DESIGNED TO FASTEN TO A STANDARD 1\"/>

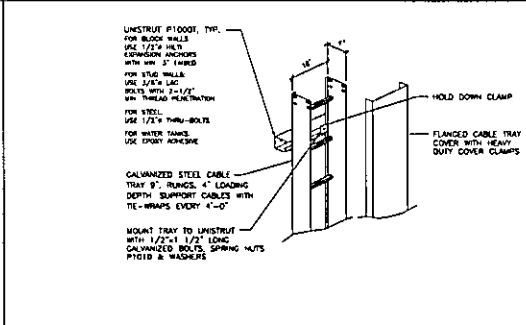
GPS UNIT

SCALE: NONE **3**



GPS MINIMUM SKY VIEW REQUIREMENT

SCALE: NONE **2**



NOTE:
1. CABLE TRAYS SHALL BE FREE OF SHARP OBJECTS AND BUMPS WHICH COULD INJURE CABLES. COVERS SHALL BE FASTENED USING HOLD DOWN CLIPS. SHEET METAL SCREWS NOT ACCEPTABLE FOR COVERS.

VERTICAL/ HORIZONTAL CABLE TRAY

SCALE: NONE **1**

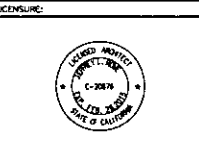


PROJECT INFORMATION:
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM SFR6XCD03
ORACLE ARENA SFR6XDD04
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: **05/09/13**

ISSUED FOR: **CLIENT COMMENTS**

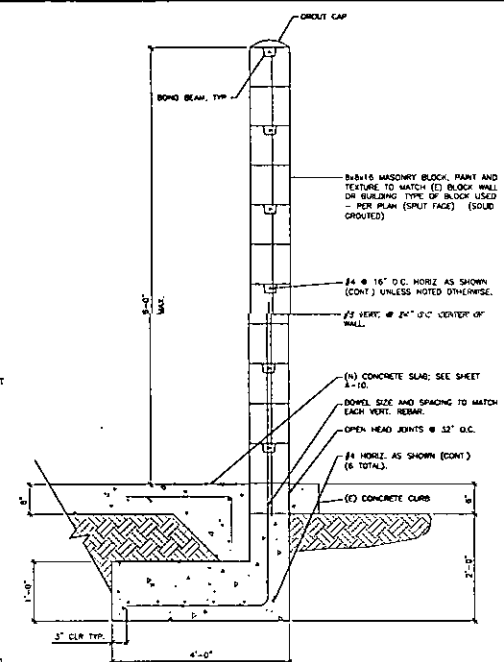
REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	90% CD REVIEW (P3-B1)	JH
2	04/02/13	100% CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW



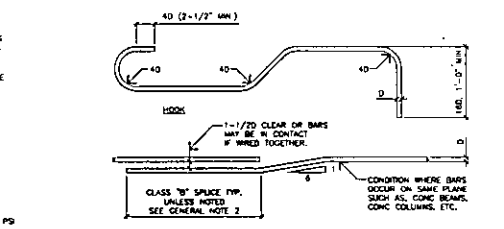
ANTENNA, RRU, AND FILTER DETAILS

SHEET NUMBER: **A-7** REVISION: **3**

- GENERAL**
- CONTRACTOR SHALL VISIT THE BUILDING SITE AND SHALL VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO STARTING ANY WORK AND SHALL BE RESPONSIBLE FOR COORDINATION OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY THE SUB-CONTRACTORS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY BY ANY DISCREPANCIES FOUND.
 - TYPICAL DETAILS SHALL APPLY WHERE NO SPECIAL DETAIL IS SHOWN.
 - ALL DIMENSIONS OR CONFLICTS BETWEEN VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE PROCEEDING WITH ANY WORK SO INVOLVED.
 - CONTRACTOR SHALL PROVIDE SAFE AND ADEQUATE TEMPORARY PROTECTION BRACING ON ALL ELEMENTS INCLUDING PROPOSED CONSTRUCTION & SOIL. PROVIDE FULL STRUCTURAL STABILITY. BRACING OR SHORING SHALL NOT BE REMOVED UNTIL THE ELEMENT SUPPORTED IS CAPABLE OF SUPPORTING ITS DESIGN LOAD.
 - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CALIFORNIA BUILDING CODE AND ALL LOCAL CODE REQUIREMENTS.
 - IN NO CASE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS OR DETAILS ON THE DRAWINGS.
 - REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR MOLDINGS, ORNAMENTS, GROOVES, CLIPS, GROUNDS, DROPPED SLABS, CURBS, ETC. NOT SHOWN ON DRAWINGS.
 - BACKFILL BEHIND RETAINING WALL SHALL NOT BE DONE PRIOR TO THE RETAINING WALL STEEL'S GRROUTING IS COMPLETED.
- REINFORCING STEEL**
- ALL REINFORCING STEEL SHALL BE NEW DEFORMED BARS CONFORMING TO ASTM A-618 GRADE 60.
- CONCRETE (AT EMBEDMENT SHELTER)**
- ALL POUR-IN-PLACE CONCRETE SHALL HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS UNLESS OTHERWISE NOTED. CEMENT TO BE TYPE II FROM TESTED SOURCE PER ASTM C-150.
 - CONCRETE FLOW TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
 - ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS AND OTHER FIXTURES SHALL BE SPECIFIED IN POSITION AND PROTECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTION PRIOR TO THE POURING OF ANY CONCRETE.
 - NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATIONS. FORM (EMBED) CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4" HIGH CHAMFERS UNLESS DETAILED OTHERWISE.
 - PROVIDE LIGHT FINISH FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

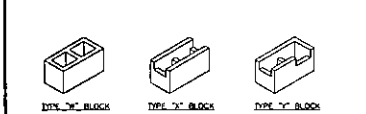


- CONCRETE BLOCK MASONRY**
- MASONRY UNITS FOR MOLLOW UNIT MASONRY SHALL BE GRADE "N" CONCRETE BLOCKS CONFORMING TO ASTM C-90. CONSTRUCTION SHALL COMPLY WITH 2010 CBC AND LOCAL CODES. MASONRY SHALL BE Laid IN STRONG, UNIFORM COURSES WITH RUNNING BOND. UNITS SHALL BE TOOLED CONCAVE AND BE UNIFORM IN SIZE. THE INTERSECTING WALLS BY OVERLAPPING UNITS IN ALTERNATE COURSES. ROUGHEN AND CLEAN CONCRETE BEARING SURFACES FOR THE PLACEMENT OF THE FIRST COURSE. VERTICAL JOINTS SHALL BE FILLED SOLID AND GROUTED TOGETHER TO PROVIDE BOND TO BOTH BLOCKS.
 - MORTAR SHALL BE FREELY PREPARED AND UNIFORMLY MIXED OF 1 PART PORTLAND CEMENT, 1/2 MASONRY TO 1/4 MINIMUM PARTS LIME PUTTY OR HYDRATED LIME, AND 3 PARTS SAND.
 - GROUT SHALL BE Laid CONSISTENTLY AND MIXED IN RATIO OF 1 PART CEMENT AND 3 PARTS SAND FOR GROUT SPACES LESS THAN 4" IN ANY DIRECTION FOR SPACES GREATER THAN 4" THE RATIO IS TO BE 1 PART CEMENT, 2 PARTS SAND AND 2 PARTS P.C.A. DRAVEL. AGGREGATE AND SAND SHALL CONFORM TO ASTM C-144. SOLID GROUT ALL CELLS.
 - USE CARE TO PREVENT MORTAR AND GROUT SPILLAGE ON THE FACE OF THE MASONRY. CLEAN SUCH SPILLAGE IMMEDIATELY. REPAIR ANY DAMAGES OR INTERFERENCES BETWEEN BLOCK AND REMOVE STAINS AT THE COMPLETION OF WORK.
 - SPRICE ALL BARS IN MASONRY WITH A MINIMUM OF 48 BAR DIAMETER LAPS (2'-0" MINIMUM).
 - ALL ISOLATED BARS EMBEDDED IN MASONRY SHALL BE GROUTED SOLIDLY IN PLACE WITH NOT LESS THAN 2" OF GROUT SURROUNDING THE BARS.
 - SEAL RETAINING FACE OF WALL AND FOOTING WITH 2 COATS OF NEWPORTS 502 ASPHALTIC GLASS.



- CONSTRUCTION MATERIALS - SPECIFICATIONS**
- ALL CONCRETE AND GROUT SHALL BE MIN. $F_c = 2500$ PSI.
 - CMU BLOCK SHALL BE MIN. $F_m = 1500$ PSI. 8"x8"x16"
 - ALL STEEL SHALL BE GRADE 60. $F_y = 60,000$ PSI. $F_u = 74,000$ PSI.
 - MORTAR STRENGTH AND TYPE PER CBC TABLE 2105A. 2.2.1.2

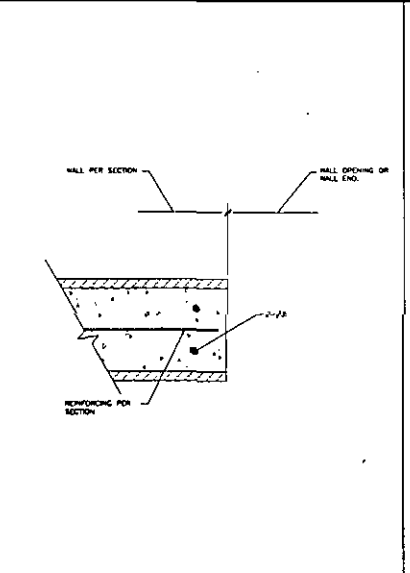
NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS (PSI)		NET AREA COMPRESSIVE STRENGTH OF MASONRY (PSI)
TYPE M OR S MORTAR	TYPE N MORTAR	
1,200	1,300	1,000
1,900	2,150	1,500
2,800	3,000	2,000
3,700	4,000	2,500
4,800	5,250	3,000



TYPE "M" BLOCK TYPE "S" BLOCK TYPE "N" BLOCK

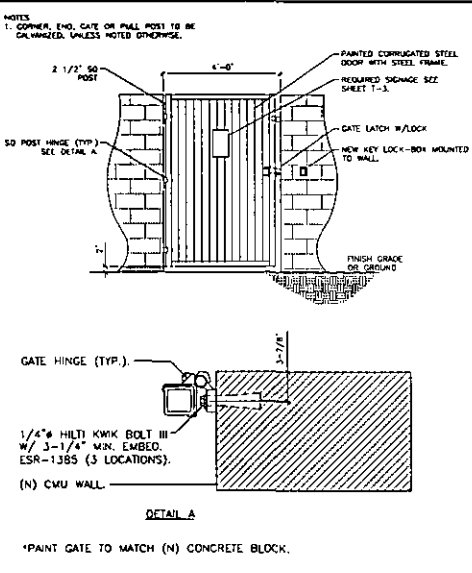
BLOCK WALL DETAILS AND NOTES

SCALE: NONE **4**



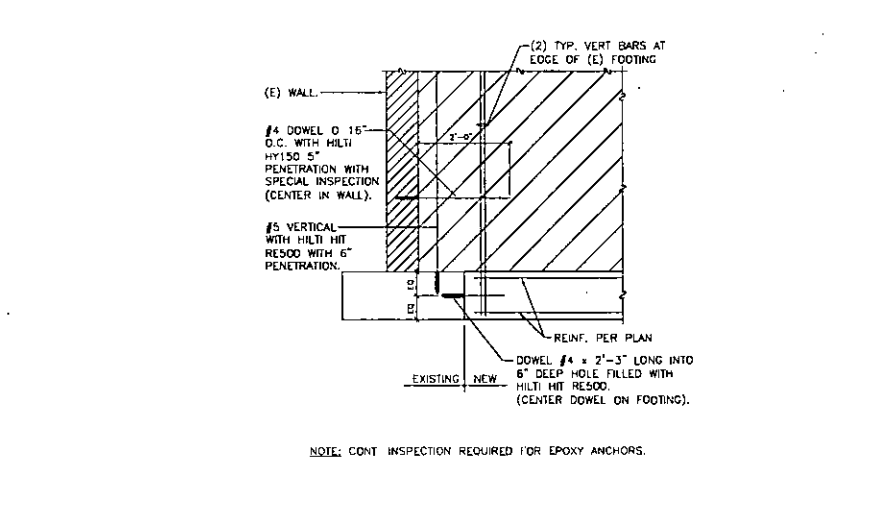
BLOCK WALL END/OPENING

SCALE: NONE **3**



STEEL GATE DETAIL

SCALE: NONE **2**



DOWEL DETAIL

SCALE: NONE **1**

- NOTES**
- CORNER, END, GATE OR WALL POST TO BE GALVANNEER, UNLESS NOTED OTHERWISE.



PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SP78X2003
ORACLE ARENA SP78X2004

1000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:

05/09/13

ISSUED FOR:

CLIENT COMMENTS

REVISIONS				
REV	DATE	DESCRIPTION	INT	
1	03/01/13	BOR. CD REVIEW (P3-B1)	JH	
2	04/02/13	100% CD REVIEW (P3-B2)	JH	
3	04/30/13	CLIENT COMMENTS (P3-B3)	JH	
4	05/09/13	CLIENT COMMENTS (P3-B4)	NW	

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



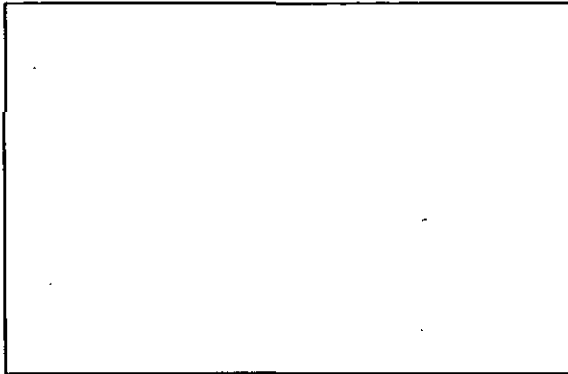
SHEET TITLE:

DETAILS

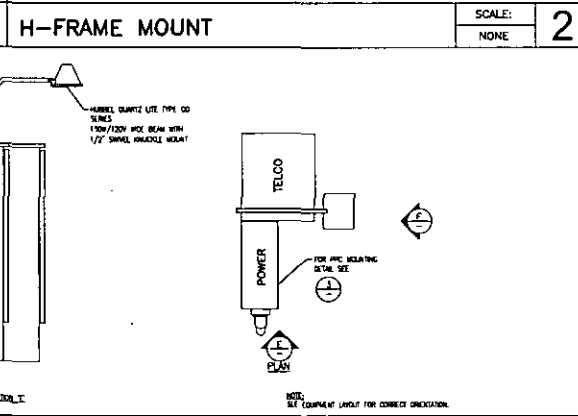
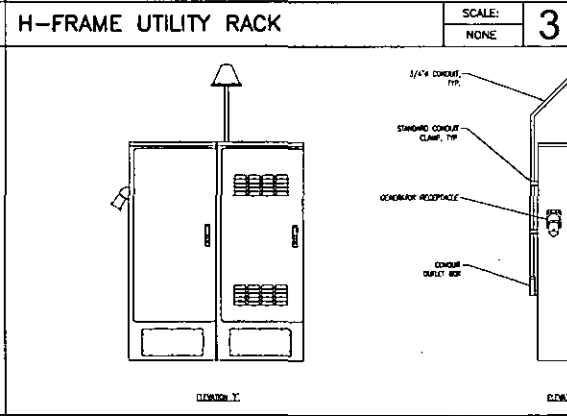
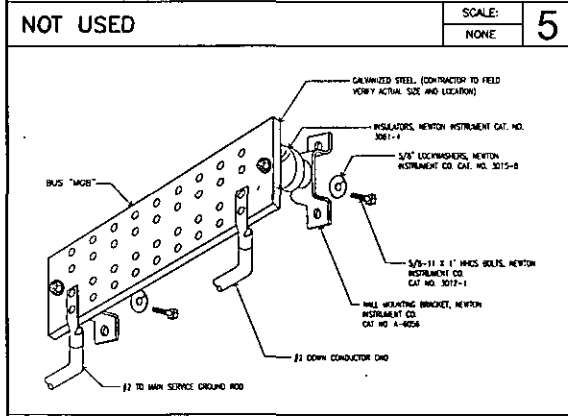
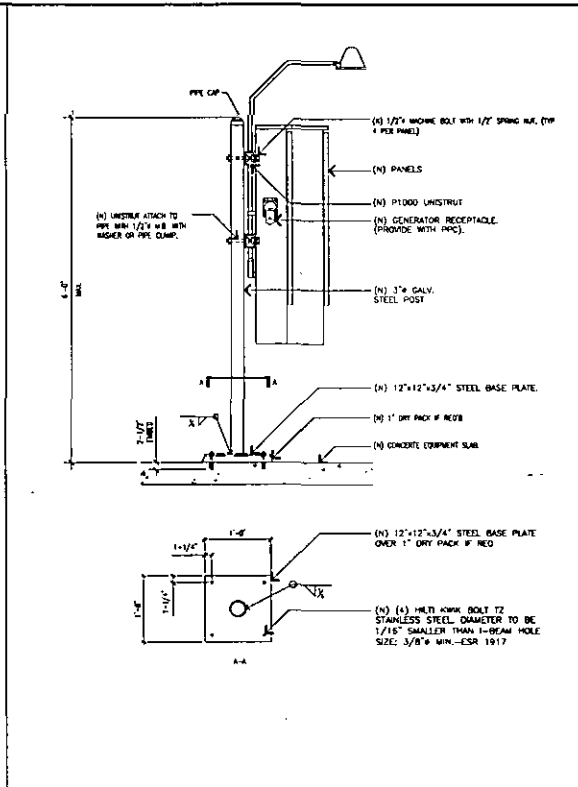
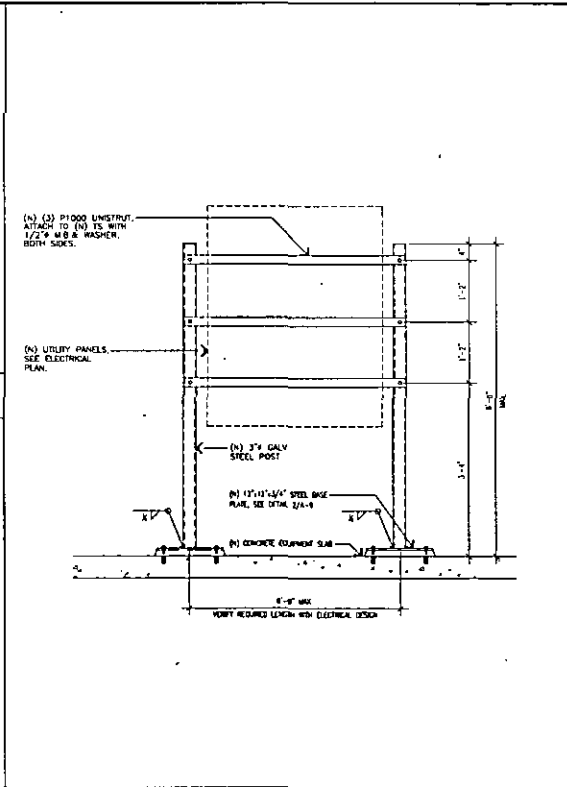
SHEET NUMBER: REVISION

A-8 **3**

REV. JOB NUMBER: 121149



SCALE: NONE 6



GROUND BUSS BAR

PPC CABINET WITH SERVICE LIGHT

H-FRAME MOUNT



PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SFB6AC003
ORACLE ARENA SFB6AC004

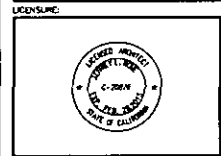
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	WORK CD REVIEW (P3-B1)	JH
2	04/02/13	WORK CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	WR
4	05/09/13	CLIENT COMMENTS (P3-B4)	WR

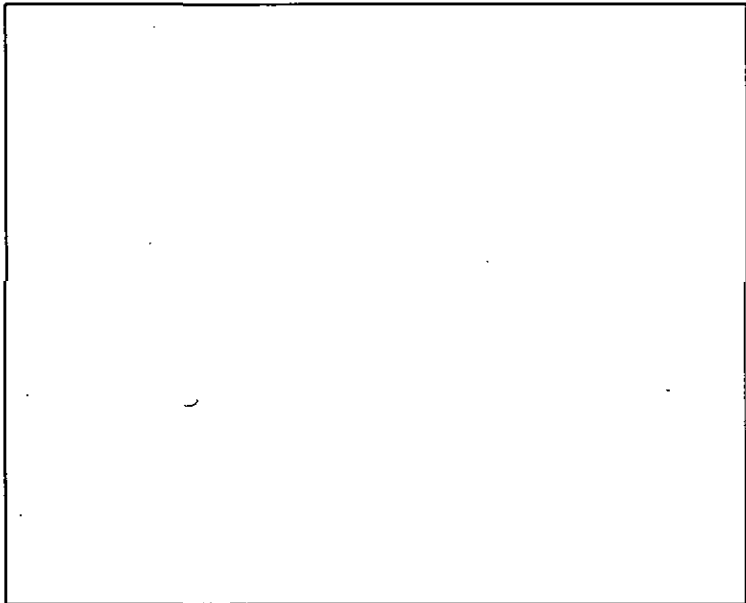
NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE: DETAILS

SHEET NUMBER: A-9 REVISION: 3

JAN. 2013 NUMBER: 122118



STANDARD CONCRETE NOTES

1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE ACI 301-88 AND 318-85 AND THE SPECIFICATION FOR CAST-IN-PLACE CONCRETE.
2. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, UNLESS OTHERWISE SPECIFIED. UNLESS OTHERWISE SPECIFIED, ALL REINFORCING STEEL SHALL BE EPOXY COATED UNLESS OTHERWISE SPECIFIED.
3. ALL FLOORING REINFORCING CONCRETE SHALL BE PROVIDED FOR MONITORING STEEL UNLESS SHOWN OTHERWISE ON DRAWINGS.

CONCRETE CAST AGAINST EARTH _____ 3 in

CONCRETE EXPOSED TO EARTH OR WEATHER _____ 2 in

IN AND LARGER _____ 2 in

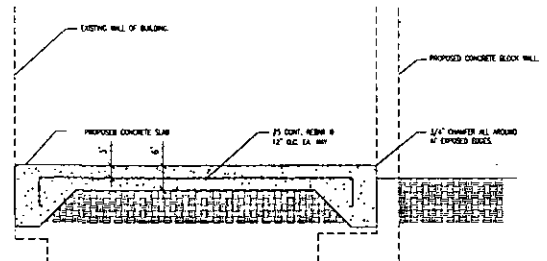
PI AND SMALLER & W/O _____ 1-1/2 in

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROUND: _____ 1-1/2 in

SLAB AND WALL _____ 1-1/2 in

BEAMS AND CEILING _____ 1-1/2 in

4. A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE UNLESS OTHERWISE SPECIFIED.
5. HOLES TO RECEIVE EXPANSION/SHRINK JOINTS SHALL BE 1/8" LARGER IN DIAMETER THAN THE ANCHOR BOLT, CORNERS OF HOLES SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OF ALL SHOWN ON THE DRAWINGS, LOCATE AND PROVIDE CURING JOINTS WHEN DRILLING HOLES IN ELEVATED CONCRETE SLABS.
6. USE AND INSTALLATION OF CONCRETE EXPANSION/SHRINK ANCHORS SHALL BE PER ACI 308 & MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURES.



NOT USED

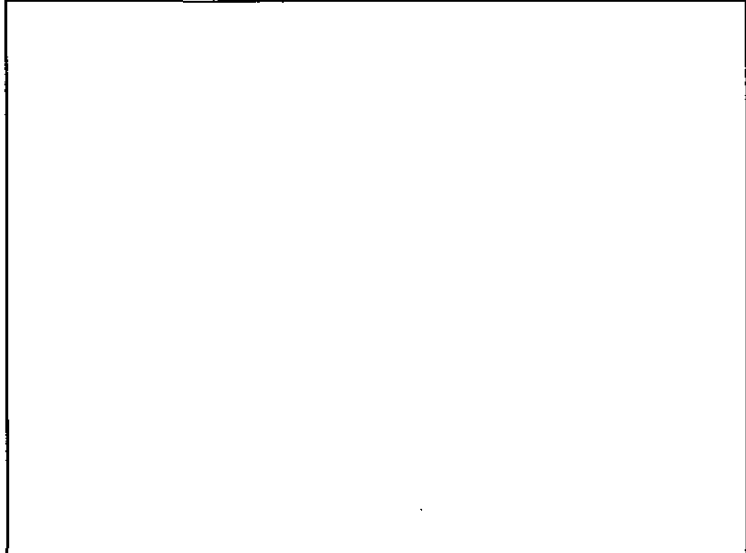
SCALE: NONE

4

CONCRETE PAD PLAN

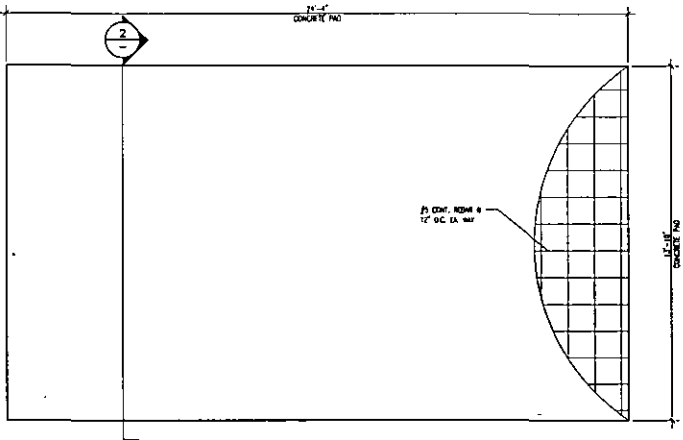
SCALE: NONE

2



NOTES:

1. SLAB TO BE LEVEL ±1/4" AND FLAT SURFACE.
2. FINAL SITE DESIGN IS THE RESPONSIBILITY OF THE SITE CONTRACTOR.
3. CONCRETE STRENGTH SHALL BE A MINIMUM OF 2,500 PSI WITH NO SPECIAL INSPECTION.
4. VERIFY (C) SOIL COMPACTION. PROVIDE NON-ORGANIC FILL AS REQUIRED TO BRING SITE UP TO SOIL COMPACTION.
5. CHAMFER ALL EXPOSED CONCRETE EDGES 3/4".



NOT USED

SCALE: NONE

3

CONCRETE PAD PLAN

SCALE: NONE

1



PROJECT INFORMATION

SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SP785X003
ORACLE ARENA SP785X004

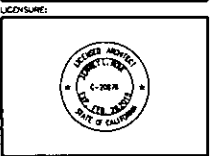
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REVISIONS			
REV.	DATE	DESCRIPTION	INT.
1	03/01/13	NOI CD REVIEW (P3-B1)	JH
2	04/02/13	100% CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	NW
4	05/09/13	CLIENT COMMENTS (P3-B4)	NW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

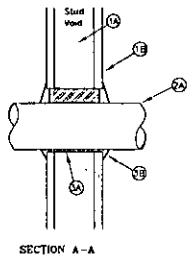


SHEET TITLE: DETAILS

SHEET NUMBER: A-10

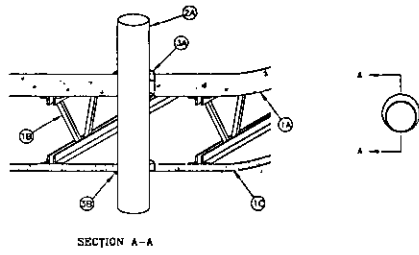
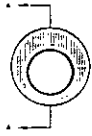
REVISION: 3

DWG. JOB NUMBER: 123149



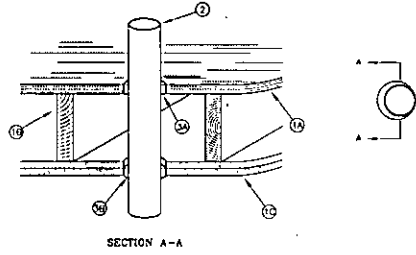
- 1. WALL ASSEMBLY** - U.S. LISTED OR UNDO SERIES DESIGN
- 1A. WOOD STUDS MIN. 2 x 4 IN. NOMINAL AT A MAX. 16 IN. ON CENTER OR STEEL STUDS MIN. 2 x 2 IN. NOMINAL AT A MAX. 24 IN. ON CENTER.
- 1B. ONE LAYER OF OPTIMAL WALLOWED CHANNEL OF PENETRATING A 1/4 IN. RATING OR TWO LAYERS OF OPTIMAL WALLOWED CHANNEL OF PENETRATING A 3/8 IN. RATING. MAX. DIAMETER OF PENETRATING OPENING FOR STEEL FRAMING IS 2 1/2 IN. AND A MAX. DIAMETER OF PENETRATING OPENING FOR WOOD FRAMING IS 1 1/2 IN.
- 2. PENETRATING**
- 2A. ONE OF THE FOLLOWING MAY BE USED:
- 1. MAX. 24 IN. STEEL PIPE.
 - 2. MAX. 24 IN. IRON PIPE.
 - 3. MAX. 8 IN. STEEL CONDUIT OR MAX. 4 IN. EMT.
 - 4. MAX. 6 IN. COPPER PIPE OR TUBING.
- ANNULAR SPACE - MIN. 1/8 IN. TO MAX. 1/2 IN.
- 3. FIRESTOPPING** - FLAMESAFE® FS 1900 SERIES SEALANT
- 3A. MINIMAL WOOL BACKING (4 POF) FILLED TO DEPTH OF WALL SPACE.
- 3B. APPLY FS 1900 INTO ANNULAR SPACE TO A DEPTH OF 1/4 IN. FOR A 1/2 IN. ASSEMBLY ADD A 1/2 IN. COUPLER AND OVERLAP THE WALLOWED 1/2 IN. FOR A 3/8 IN. ASSEMBLY ADD A 1/4 IN. COUPLER AND OVERLAP THE WALLOWED 1/4 IN.
- FRISTOP ASSEMBLY PRODUCT:** FLAMESAFE FS 1900 SERIES SEALANT
- F RATING:** 1 & 2 HOUR
- UL SYSTEM:** W1009

METAL/WOOD STUD WALL ASSEMBLY



- 1. FLOOR/CEILING ASSEMBLY** - U.S. LISTED OR UNDO SERIES DESIGN
- 1A. MIN. OF 1 1/2 IN. CONCRETE OVER METAL LATH OR STEEL DECK WITH A MIN. 1 1/4 IN. DIAMETER PENETRATING OPENING.
- 1B. STEEL JOISTS OR TRUSSES.
- 1C. MIN. 5/8 IN. THICK, SCREW ATTACHED TO FLOORING CHANNELS MAX. 1 1/4 IN. DIAMETER PENETRATING OPENING.
- 2. PENETRATING**
- 2A. MAX. 10 IN. DIAMETER OR SMALLER FOR STEEL AND EMT. MAX. 8 IN. DIAMETER OR SMALLER FOR COPPER TUBE OR PIPE.
- ANNULAR SPACE - FOR PENETRANTS THE ANNULAR SPACE IS MIN. 1/8 IN. TO MAX. 1/2 IN. APPROX. WOODEN JOISTS.
- FRISTOP ASSEMBLY PRODUCT:** 3M COMPANY® FS-3000 WT SEALANT
- F RATING:** 1 HOUR
- T RATING:** 1 HOUR
- UL SYSTEM:** F1101

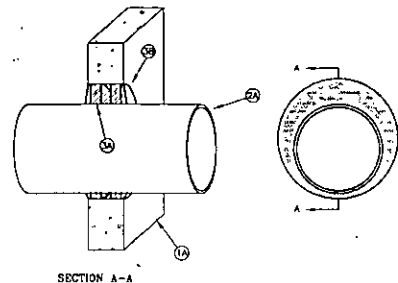
CONCRETE/METAL FLOOR-CEILING ASSEMBLY



- 1. FLOOR-CEILING ASSEMBLY** - U.S. LISTED OR UNDO SERIES DESIGN
- 1A. MIN. 3/4 IN. LAMBER OR PLATHOOD SUBFLOOR WITH A MIN. 1 IN. DIAMETER LARGER THAN OUTSIDE DIAMETER OF PENETRANT.
- 1B. MINIMAL 2x10 IN. LAMBER JOISTS SPACED 16 IN. ON CENTER WITH 1/2 IN. LAMBER BRIDGING AND WITH END BRACKETS.
- 1C. FIRST LAYER OF OPTIMAL WALLOWED CHANNEL TO WOOD JOISTS SECOND LAYER OF WALLOWED CHANNEL ATTACHED TO FLOORING CHANNELS MAX. DIAMETER OF PENETRANT IS 1 IN. LARGER THAN OUTSIDE DIAMETER OF PENETRANT.
- 2. PENETRATING**
- 2A. MAX. 10 IN. DIAMETER OR SMALLER FOR STEEL OR EMT. MAX. 8 IN. DIAMETER OR SMALLER FOR COPPER TUBE AND PIPE.
- ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIMETRY OF OPENING SHALL BE 0 IN. TO 1/8 IN. MAX PIPE, CONDUIT OR TUBING TO BE ROBBED SUPPORTED ON BOTH SIDES OF FLOOR ASSEMBLY.
- 3. FIRESTOPPING** - 3M COMPANY® FS-3000 WT SEALANT
- 3A. AT FLOOR SURFACE, APPLY FS-3000 WT WITH MIN. 3/4 IN. THICKNESS APPLIED WITHIN THE ANNULAR SPACE FLUSH WITH TOP OF SURFACE OF FLOOR.
- 3B. AT CEILING SURFACE, APPLY FS-3000 WT WITH MIN. 5/8 IN. DEEP INTO ANNULAR SPACE FLUSH WITH BOTTOM SURFACE OF CEILING. AN ADDITIONAL MIN. 1/4 IN. CHOP OF FILL MATERIAL, APPLIED TO PERIMETER OF PENETRANT AT ITS EXCESS PROJECTS UNDERSIDE OF CEILING.
- FRISTOP ASSEMBLY PRODUCT:** 3M COMPANY® FS-3000 WT
- F RATING:** 1 HOUR
- T RATING:** 1 HOUR
- UL SYSTEM:** F1101

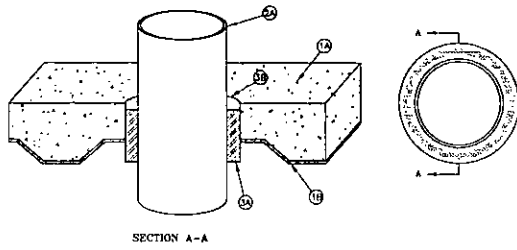
WOOD FLOOR-CEILING ASSEMBLY

- NOTES:**
1. CONTRACTOR TO ASSESS RISK TO BUILDING OF COMING TO LOCATIONS RE-USE DO NOT CUT RE-USE
 2. ALL PENETRATIONS SHALL CONFORM TO TITLE 24, CALIF. P.L.C. CODE, SECTION 214.2 PENETRATIONS THROUGH WALLS SHALL COMPLY WITH THE FIRE SECTION FOR U.S.
 3. THIS SYSTEM DRAWING IS PROVIDED TO AID IN THE INSTALLATION AND SELECTION OF THE UL LISTED OR UNDO DESIGN FOR COMPLETE INFORMATION. CONSULT WITH THE SUBMITTER AND APPROVAL PURPOSES.
 4. SYSTEM DESIGN EVALUATED TO THE UL 1610 (ASTM E814) FIRE TESTS OF THROUGH-PENETRATION FACTORS.
 5. PLEASE REFER TO THE UL FIRE RESISTANCE DIRECTORY FOR COMPONENTS RESUING UL CLASSIFICATION.



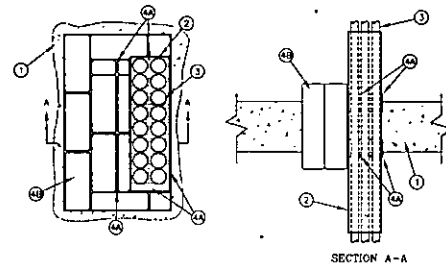
- 1. WALL ASSEMBLY**
- 1A. MIN. 8 IN. OR MORE CONCRETE OR BLOCK WALL CAPABLE OF A 3 HR. RATING. MAX. DIAMETER OF PENETRANT OPENING IS 28 IN.
- 2. PENETRATING**
- 2A. ONE OF THE FOLLOWING MAY BE USED:
- 1. MAX. 24 IN. STEEL OR IRON PIPE.
 - 2. MAX. 8 IN. STEEL CONDUIT
 - 3. MAX. 4 IN. EMT.
- ANNULAR SPACE - MIN. 3/4 IN. TO MAX. 2-1/2 IN.
- 3. FIRESTOPPING** - FLAMESAFE® FS 1900 SERIES SEALANT
- 3A. MINIMAL WOOL BACKING (4 POF) COMPRESSED INTO ANNULAR SPACE TO A MIN. 2-1/2 IN. THICK LEAVING ROOM FOR SEALANT (BOTH SIDES).
- 3B. AT WALL SURFACE, APPLY FS 1900 INTO ANNULAR SPACE 1/4 IN. THICK AND ADD 2 1/4 IN. CHOP (MINIMUM PENETRANT BOTH SIDES).
- FRISTOP ASSEMBLY PRODUCT:** FLAMESAFE FS 1900 SERIES SEALANT
- F RATING:** 3 HOUR
- UL SYSTEM:** E81035

CONCRETE OR BLOCK WALL ASSEMBLY



- 1. FLOOR/CEILING ASSEMBLY** - U.S. LISTED OR UNDO SERIES DESIGN
- 1A. MIN. 2-1/2 IN. THICK REINFORCED CONCRETE OR NORMAL WEIGHT CONCRETE TYPING AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNIT.
- 1B. COMPOSITE OR NONCOMPOSITE 1-1/2, 2 OR 3 IN. DEEP FLOORING GANY UNITS AS SPECIFIED IN THE ORIGINAL FLOOR CEILING DESIGN. DIAMETER OF OPENING THROUGH FLOOR (TO BE 1/2 IN. TO 3/2 IN. LARGER THAN THE OUTSIDE DIAMETER OF THROUGH-PENETRANT) MAX. DIAMETER OF PENETRANT IS 9 IN.
- 2. PENETRATING**
- 2A. A. MAX. DIAMETER OF SMALLER OF (1) RETAINED IN ACCORDANCE WITH ARTICLE 243 OF THE NATIONAL ELECTRIC CODE.
- ANNULAR SPACE - MIN. 1/4 IN. CIRCULAR OPENING SHALL BE 1/4 IN. LARGER THAN THE NOMINAL PIPE SIZE OF CONDUIT TO BE ROBBED SUPPORTED ON BOTH SIDES OF THE FLOOR OR WALL ASSEMBLY.
- 3. FIRESTOPPING** - 3M COMPANY® FS-3000 WT SEALANT
- 3A. WRAP STRIP - MIN. 5/16 IN. THICK REINFORCED CONCRETE OR NORMAL WEIGHT CONCRETE TYPING AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNIT.
- 3B. WRAP STRIP - MIN. 5/16 IN. THICK REINFORCED CONCRETE OR NORMAL WEIGHT CONCRETE TYPING AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNIT.
- 3C. WRAP STRIP - MIN. 5/16 IN. THICK REINFORCED CONCRETE OR NORMAL WEIGHT CONCRETE TYPING AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNIT.
- 3D. WRAP STRIP - MIN. 5/16 IN. THICK REINFORCED CONCRETE OR NORMAL WEIGHT CONCRETE TYPING AS MEASURED FROM THE TOP OF THE STEEL FLOOR UNIT.
- FRISTOP ASSEMBLY PRODUCT:** 3M COMPANY® FS-3000 WT SEALANT
- F RATING:** 3 HOUR
- T RATING:** 1-1/2 HOUR
- UL SYSTEM:** C41827

CONCRETE FLOOR-CEILING ASSEMBLY



- 1. FLOOR OR WALL ASSEMBLY** - MIN. 4-1/2" THICK REINFORCED LIGHTWEIGHT OR NORMAL WEIGHT (100-150 PCF) CONCRETE. WALL MAY ALSO BE CONSTRUCTED OF ANY UL CLASSIFIED CONCRETE BLOCKS MAX. AREA OF OPENING IS 360 SQUARE IN. WITH A MAX. DIMENSION OF 30".
- 2. CABLE TRAY** - MAX. 24" WIDE BY MAX. 4" DEEP LADDER CABLE TRAY WITH CHANNEL-SHAPED SIDE RAILS FORMED OF MIN. 0.058 IN. THICK (16 GA) GALV. STEEL OR MAX. 24" WIDE BY MAX. 4" DEEP LADDER CABLE TRAY WITH CHANNEL-SHAPED SIDE RAILS FORMED FROM GLOSS IN. THICK ALUMINUM MAY BE USED. CABLE TRAY MUST BE ANCHORED TO THE ANNULAR SPACE BETWEEN THE CABLE TRAY AND THE PERIMETRY OF THE OPENING TO MAX. 6" (POINT CONTACT) TO MAX. 6" CABLE TRAY TO BE ROBBED SUPPORTED ON BOTH SIDES OF FLOOR OR WALL ASSEMBLY.
- 3. CABLE**
- 4. CABLE TRAY** - THE FRISTOP SYSTEM SHALL CONSIST OF THE FOLLOWING:
- 1. FILL VOID ON CABLE MATERIAL - PUTTY - MIN. 1/4" THICKNESS, MIN. 2" WIDTH OF PUTTY APPLIED AROUND EACH CABLE SUCH THAT PUTTY EXTENDS APPROX. 1/2" ABOVE FLOOR OR BEYOND BOTH SURFACES OF WALL. ADDITIONAL PUTTY INSTALLED INSIDE CABLE TRAY SIDE RAILS TO COMPLETELY FILL SIDE RAILS WITHIN THE OPENING AND EXTENDING APPROX. 1/2" BEYOND BOTH SURFACES OF FLOOR OR WALL. AFTER INSTALLATION OF PILLOWS STEEL AND ALL HOLES WITHIN THE OPENING SHALL BE FILLED WITH A MIN. 1" THICKNESS OF PUTTY.
 - 2. FILL VOID OF CABLE MATERIAL - PILLOWS - MAX. 3" LONG BY 6" WIDE BY 2" AND 1" THICK PLASTIC COVERED PILLOWS TIGHTLY PACKED TO FILL EXCESS ANNULAR SPACE BETWEEN CABLE TRAY AND PERIMETRY OF OPENING. PILLOWS INSTALLED WITH 6" DIMENSION PROJECTING THROUGH FLOOR OR WALL AND CONTACTED WITHIN THE OPENING.
- FRISTOP ASSEMBLY PRODUCT:** 3M COMPANY FIRE BARRIER HOLDABLE PUTTY® (FIB-11) AND FIRE BARRIER SELF-LOCKING PILLOWS
- F RATING:** 3 HOUR
- UL SYSTEM:** C41826

CONCRETE FLOOR-CEILING ASSEMBLY: CABLE TRAY

PENETRATION FIRESTOPPING DETAIL

SCALE: 1 NONE



PROJECT INFORMATION:

SPRINT OAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM SF98X2003
ORACLE ARENA SF98X2004

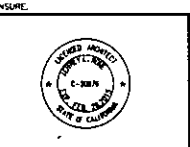
7000 COLSTUNWAY WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

CLIENT COMMENTS

REVISIONS			
REV.	DATE	DESCRIPTION	INT.
1	03/01/13	BOOK CD REVIEW (P3-01)	JH
2	04/02/13	BOOK CD REVIEW (P3-02)	JH
3	04/30/13	CLIENT COMMENTS (P3-03)	WH
4	05/09/13	CLIENT COMMENTS (P3-04)	WH

NOT FOR CONSTRUCTION UNLESS LABELLED AS CONSTRUCTION SET



SHEET TITLE: CONDUIT PENETRATION DETAILS

SHEET NUMBER: A-11 REVISION: 3

JUL. 2008 NUMBER: 12-114

GENERAL AND TELCO NOTES:

- CODES AND REGULATIONS:** THE NATIONAL ELECTRICAL CODE AND APPLICABLE FEDERAL, STATE, COUNTY, AND MUNICIPAL BUILDING CODES, ORDINANCES, RULES, REGULATIONS OF AUTHORITIES HAVING JURISDICTION OVER THE CONSTRUCTION OF THE PROJECT, SHALL APPLY THROUGHOUT.
- PERMITS, FEES AND INSPECTIONS:** ARRANGE AND PAY FOR REQUIRED ELECTRICAL BUILDING PERMITS, FEES AND INSPECTIONS.
- WARRANTIES:** INSTALLATION SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. DEFECTIVE MATERIAL, EQUIPMENT, OR INDOOR WORKMANSHIP SHALL BE CORRECTED IMMEDIATELY TO THE SATISFACTION OF THE OWNER. AFTER THIRTY (30) DAYS THE CONTRACTOR AND HIS SUBS SHALL COMPLETE THE WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NECESSARY REPAIRS AND BACKCHARGING THE ORIGINAL CONTRACTOR FOR THE WORK.
- CHANGES:** NO ADDITIONAL COSTS FOR LABOR OR MATERIALS WILL BE ALLOWED FOR CHANGES OR MODIFICATIONS UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE ARCHITECT, ENGINEER, OR OWNER IN THE FORM OF A CHANGE ORDER.
- PROJECT WORK:** TO INCLUDE THE FURNISHING OF LABOR, TOOLS, EQUIPMENT, AND MATERIALS AS REQUIRED TO INSTALL COMPLETE AND IN OPERATING CONDITION THE ELECTRICAL SYSTEM SHOWN OR IMPLIED ON THESE DRAWINGS.
- DRAWINGS:** ELECTRICAL DRAWINGS ARE ENFORCEABLE IN NATURE. CONDUIT ROUTING IS SHOWN AS A GUIDE ONLY. ACTUAL CONDUIT PLACEMENT IS TO BE DONE IN A PROFESSIONAL MANNER.
- DISCREPANCIES:** DISCREPANCIES ON THESE PLANS, SPECIFICATIONS, CODES, ETC. MUST BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER.
- SURVEY AND CONDITIONS:** VISIT THE JOB SITE PRIOR TO SUBMITTING BID AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT THE WORK TO BE PERFORMED. NO OTHER ALLOWANCES WILL BE GIVEN FOR SITE CONDITIONS.
- COOPERATION:** COOPERATE WITH OTHER CONTRACTORS AND SUBCONTRACTORS ON SITE, ARRANGE AND EXECUTE WORK IN SUCH A MANNER AS REQUIRED FOR THE SATISFACTORY AND EFFICIENT CONSTRUCTION OF THIS PROJECT BY ALL TRADES CONCERNED.
- TESTS AND REPORTS:** TESTERS SHALL BE LICENSED TESTED AND TEST REPORT SHALL BE PROVIDED TO THE OWNER BEFORE FINAL ACCEPTANCE.
- AS-BUILTS:** ELECTRICAL CONTRACTOR SHALL PROVIDE AS-BUILTS TO THE ARCHITECT AT THE COMPLETION OF THE PROJECT.
- MATERIALS AND WORKMANSHIP:** PROVIDE MATERIALS NEW AND OF SPECIFICATION GRADE WITH U.S. LABELS. WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE BEST PRACTICES OF THE TRADE INSTALLED BY QUALIFIED ELECTRICIANS UNDER THE DIRECT SUPERVISION OF A COMPETENT FOREMAN.
- CONDUIT SYSTEM:** RIGID STEEL, HEAVY-WALL CONDUIT, INCLUDING COUPLERS, LUGS, UNITS, BUSHINGS, WIPES, AND OTHER FITTINGS SHALL BE HOT DIPPED GALVANIZED, SPHERICALLY, OR ZINC COATED. ELECTRICAL METALLIC TUBING (EMT), INCLUDING COUPLERS, CONNECTORS, AND OTHER FITTINGS SHALL BE GALVANIZED OR SPHERICALLY FITTINGS FOR EMT SHALL BE OF THE COMPRESSION TYPE. ALL CONDUITS INSTALLED FOR FUTURE USE SHALL BE INSTALLED WITH A MINIMUM 3/8" POLY PULL ROPE WITH WEARLINE TAPE TO PREVENT AS-BUILT CONDUIT LENGTH. BOMBS MUST BE IN THE CONDUIT'S LENGTH.
- ELECTRICAL CONDUIT SHALL BE AS FOLLOWS:**
 - MINIMUM 1" RIGID GALVANIZED STEEL IN EXPOSED AREAS SUBJECT TO WEATHER OR PHYSICAL DAMAGE.
 - MINIMUM 1" ELECTRICAL METALLIC TUBING (EMT) INDOORS.
 - MINIMUM 1" LIQUID TIGHT FLEX FOR WEATHERPROOF CONNECTIONS TO EQUIPMENT.
 - UNDERGROUND CONDUITS SHALL BE SCHEDULE 40 PVC WITH SCHEDULE 40 BENDS AND REDUCERS. PVC CONDUITS SHALL CONTAIN A GROUND WIRE PER NEC TABLE 250-84.
 - UTILITY BENDS MAY BE PER LOCAL UTILITY RECOMMENDATIONS.
 - TELECOM CONDUIT SHALL BE AS FOLLOWS:
 - MINIMUM 2" DIAMETER DUCT OF APPROVED MATERIAL (SEE ABOVE)
- IN LINE PULL BOXES:** MINIMUM DIMENSIONS 24" LONG, 6" WIDE, BY 6" DEEP. PERMITTED DIMENSIONS 30" LONG, 6" WIDE, BY 6" DEEP.
 - PULL BOXES SHALL NOT BE USED FOR 90 DEGREE TRANSITIONS UNLESS 10" BENDING RADIUS CAN BE MAINTAINED.
 - MAXIMUM OF 200 FEET HORIZONTAL BETWEEN PULL BOXES.
 - MAXIMUM OF (2) 90 DEGREE BENDS BETWEEN PULL BOXES.
 - MINIMUM CONDUIT BEND RADIUS OF 10 TIMES CONDUIT DIAMETER.
 - VERTICAL CONDUIT RUNS SHALL HAVE A PULL BOX EVERY 100 FEET.
 - ELECTRICAL ELBOWS OR CONDUITS SHALL NOT BE USED AS PULL BOXES.
- STANDARD PULL BOXES:** MINIMUM 17" WIDE BY 30" LONG.
 - TELECOM PULL BOXES ARE TO BE OF AT LEAST 24" x 6" x 6" ETD.
 - PREFABRICATED TELECOM PULL BOX DIMENSIONS: 30" x 6" x 6" ETD.
 - TELECOM PULL BOXES MUST BE ACCESSIBLE. TELEPHONE COMPANIES WILL NOT REMOVE CEILING TILES.
 - CONDUIT TO ENTER AND LEAVE PULL BOX IN A STRAIGHT LINE, DO NOT TURN UP CONDUIT.
- WIRE:** MINIMUM #12 EXCEPT WHERE OTHER SIZES ARE SPECIFICALLY INDICATED. THE NUMBER OF WIRES IN A CONDUIT ARE INDICATED BY MEANS OF CROSS HATCHES (ENCLOSURE BEING LONGEST) WHERE THREE OR MORE WIRES ARE NECESSARY. REFER TO NEC TABLE 318 FOR CONDUIT FILL REQUIREMENTS WHERE LARGER THAN 1/2" CONDUIT IS REQUIRED FOR THE NUMBER OF WIRES INDICATED.

WIRE SHALL BE AS FOLLOWS:

 - #10 OR SMALLER WIRE SHALL BE 75C RATED SOLID COPPER, WITH THIN/THIN AWC INSULATION.
 - #8 AND LARGER SHALL BE 75C RATED STRANDED COPPER, WITH THIN/THIN AWC INSULATION.
- FUSES:** FUSE FINE SHALL BE CLASS C TYPE "LM" FAST ACTING RATED FOR 100K WITH DOWN STREAM DEVICES.
- SERVICE EQUIPMENT:** VERIFY WITH THE SERVING UTILITY THAT THE SERVICE EQUIPMENT PROVIDED IS MEETING THE REQUIREMENTS AND IS RATED FOR THE MAXIMUM SHORT CIRCUIT DUTY AVAILABLE, AND SURVEY SHOP DRAWINGS IF REQUESTED. EQUIPMENT MAY BE SIZES RATED PER MANUFACTURER'S RECOMMENDATIONS, AND RESPONSIBILITY.
- TELEPHONE SERVICE ENTRANCE:** PROVIDE AND INSTALL TELEPHONE ENTRANCE CONDUITS PER PCM PRODUCT MANAGER AND COORDINATE PRIMARY SERVICE LOCATION.

- TELCO SPALICE BOXES:** TELCO SPALICE BOXES WILL BE SIZED BY SERVING TELEPHONE UTILITY. DETAILS WILL BE PROVIDED BY INTERCONNECT ENGINEER OR BY SERVING TELEPHONE UTILITY.
- ACCEPTANCE:** BEFORE ACCEPTANCE OF THE WORK, INSPECT THE BUILDING IN THE PRESENCE OF THE OWNER AND DEMONSTRATE THAT ELECTRICAL SYSTEMS ARE IN OPERATING CONDITION SATISFACTORY TO THE OWNER.
- CUTTING AND PATCHING:** CUTTING AND PATCHING OF CONSTRUCTION REQUIRED FOR PROPER INSTALLATION OF HIS WORK IS THE RESPONSIBILITY OF THIS CONTRACTOR. NO CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE WITHOUT PRIOR APPROVAL OF THE STRUCTURAL ENGINEER.
- LOCATION AND ARRANGEMENTS:** DRAWINGS INDICATE DIAGRAMMATICALLY THE DESIRED LOCATION OF EQUIPMENT, FIXTURES, OUTLETS, ETC. AND ARE NOT TO BE SEALED. PROPER JUDGEMENT MUST BE EXERCISED IN THE EXECUTION TO INSURE THE BEST POSSIBLE INSTALLATION.
- FIRE RATED AREAS:** FIRE STOPPING REQUIRED WHEN OPENINGS ARE MADE IN FIRE RATED BARRIERS.
- PARALLEL CONDUCTORS:** IT IS IMPERATIVE THAT PARALLEL CONDUCTORS BE OF EQUAL LENGTHS AND MUST BE TESTED IN THE PRESENCE OF THE ELECTRICAL INSPECTION TO INSURE PHASE CONTINUITY.
- EXTERIOR EQUIPMENT:** ELECTRICAL DEVICES, EQUIPMENT, CONDUITS, CONNECTIONS, ETC., LOCATED OUTSIDE THE BUILDING ENVELOPE SHALL BE WEATHERPROOF.
- EQUIPMENT LOCATIONS:** LOCATION OF EQUIPMENT SHALL BE FIELD VERIFIED.
- EQUIPMENT REQUIREMENTS:** FIELD VERIFY WITH EQUIPMENT MANUFACTURER, CONTACT OWNER, FUSE, AND FERRULE TUBES FOR EQUIPMENT INSTALLED, AND INSURE THAT THE INSTALLATION COMPLETES.
- GROUNDING:** GROUNDING OF THE ELECTRICAL EQUIPMENT AND SYSTEM SHALL BE IN ACCORDANCE WITH DETAILS ON THESE PLANS AND ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE AND LOCAL CODES OR ORDINANCES.

TELCO BOROING AND GROUNDING:

#4 AWG SOLID COPPER INSULATED GROUND WIRE (24" COILED IN TELCO SERVICE CABINETS) WITH BONDING CLAMPS IN PLACE. THE TELEPHONE GROUND MUST BE BONDED TO THE POWER GROUND. THE TELEPHONE SERVICE CABINET MUST BE BONDED TO THE TELEPHONE GROUND WIRE. ANY QUESTIONS REGARDING TELEPHONE GROUNDING SHOULD BE REFERRED TO THE INTERCONNECT ENGINEER.

IF TELEPHONE SERVICE IS TO BE MOUNTED ON A BACKBAR (NO TELCO BOX PLACED) A BUS BAR MUST BE PLACED AND A #6 SOLID COPPER INSULATED GROUND BONDED TO THE NEW CONDUIT AND A 24" GOK LEFT.

GROUNDING NOTES:

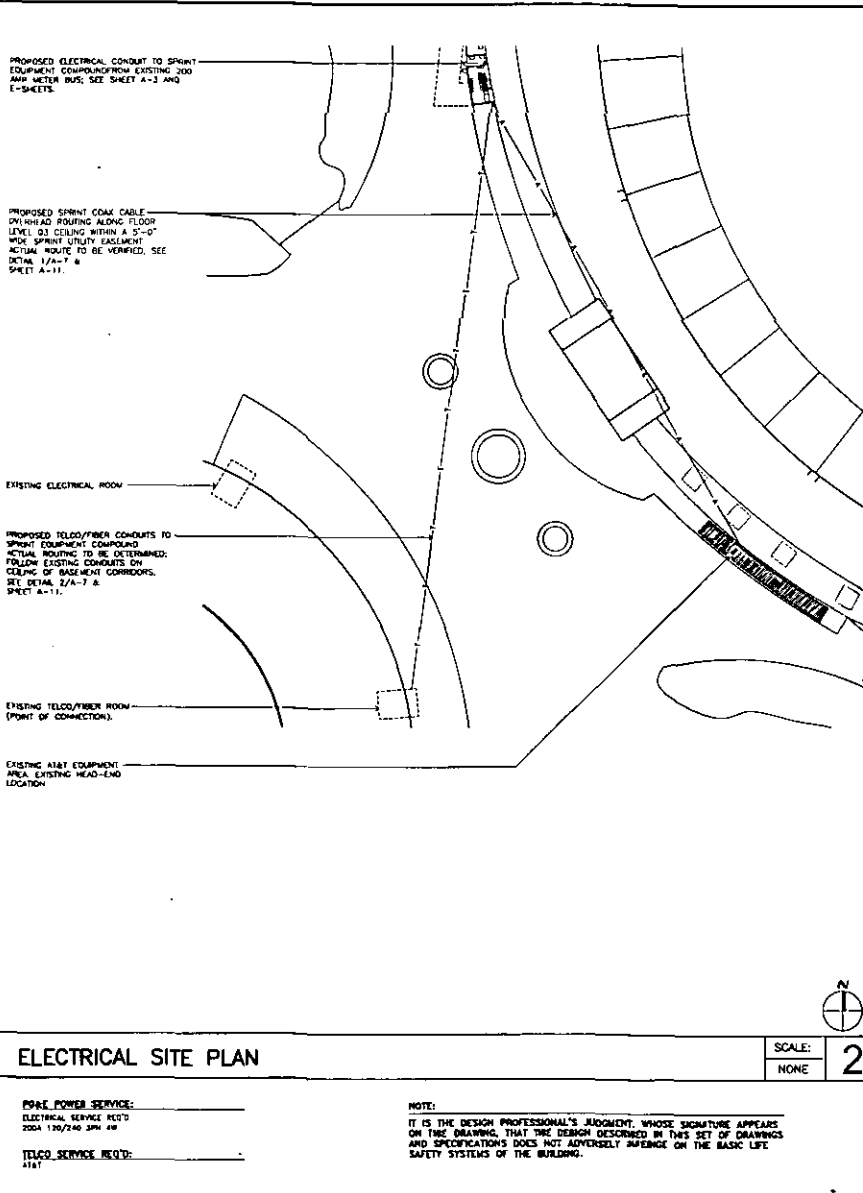
- GROUND ANTI-WAVE BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #8 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTI-WAVE AND OTE MANUFACTURER'S PRACTICES FOR GROUNDING. UNDERGROUND WATER PIPES, METAL CONDUITS, AND GROUNDWATS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
- GROUND CONNECTIONS SHALL BE #2 AWG U.O.M. WIRE SHALL BE COPPER THIN/THIN. GROUND WIRE SHALL BE 12" COATED OR GREEN PIGMENT COATED.
- CONTRACTOR TO PERFORM A FALL-UP-POTENTIAL GROUND RESISTANCE MEASUREMENT TEST AND RESULTS MUST NOT EXCEED A RESISTANCE READING OF 3 OHMS MAXIMUM. PROVIDE SUPPLEMENT GROUNDING ON #12 RODS AS REQUIRED TO ACHIEVE THE SPECIFIED OHMS READING. CONTRACTOR SHALL PROVIDE GROUNDING AND OTHER OPTIONAL TESTING AS DIRECTED AND TO BE WITNESSED BY A OHS REPRESENTATIVE.
- HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED A MINIMUM 30" BELOW GRADE IN TRENCH. U.O.M. AND BACK FILL SHALL BE COMPACTED AS REQUIRED BY ARCHITECT.
- GROUND CONDUCTORS SHALL BE RUN AS STRAIGHT AND SHORT AS POSSIBLE, WITH A MINIMUM 12" BENDING RADIUS NOT LESS THAN 90 DEGREES.
- ALL SUPPORT STRUCTURES, CABLE CHANNEL WAYS, OR WIRE GUIDES SHALL BE BONDED TO GROUND SYSTEM AT A POINT NEAREST THE MAIN GROUNDING BUS "MGB" WITH A MINIMUM #8 TINNED COPPER CONDUCTOR AND (2)-HOLE COMPRESSION CONNECTION AT BUS.
- ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
 - 48RUMPTON, NY-GRADE U.L. LISTED CONNECTORS (MECHANICAL CONNECTIONS),
 - BEADWELL, LEADERHEAD, HELDS (WELDED CONNECTIONS),
 - KTWO (2)-HOLE TINNED COPPER COMPRESSION FITTINGS (BUS BAR CONNECTIONS),
 - CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DEMARK VISIBLE AT THE CRIMP.
- GROUND CONNECTIONS SHALL BE BURNISHED AND SHALL HAVE A COATING OF "DOW-BASELDT" OR "NO-OX-10" APPLIED TO THE CONNECTION.
- GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.

TRENCHING NOTES:

- MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY UNDER PREPARED SURFACE SHALL BE 18" OR AS SPECIFIED BY PERMITTING OFFICER/AGENCY.
- MINIMUM COVERAGE OF DUCT ON PRIVATE PROPERTY UNDER UNPREPARED SURFACE SHALL BE 24" OR AS SPECIFIED BY PERMITTING OFFICER/AGENCY.
- MINIMUM COVERAGE OF DUCT IN PUBLIC RIGHT OF WAY SHALL BE 36" BELOW GUTTER GRADE OR AS SPECIFIED BY PERMITTING OFFICER/AGENCY.
- MINIMUM SEPARATION IN SHARED TRENCH SHALL BE 12" BETWEEN POWER AND TELEPHONE.

ABBREVIATIONS AND SYMBOLS:

A	AMPERE	MOB	MAIN GROUNDING BUS
AWG	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION	ECB	EQUIPMENT GROUND BUS
AWG	AMERICAN WIRE GAUGE	EMT	ELECTRICAL METALLIC TUBING
C.O.	CONDUIT ONLY (WITH PULL WIRE)	(E)	INDICATES EXISTING
RCS	RIGID GALVANIZED STEEL	(L)	INDICATES EXISTING
P	PULL	(R)	INDICATES EXISTING
PH	PHASE	(S)	INDICATES EXISTING
DN	DOWN	(T)	INDICATES EXISTING
UP	UP	(U)	INDICATES EXISTING
UP	UNDERGROUND PULL SECTION	(V)	INDICATES EXISTING



SPRINT DAS PROJECT

OAKLAND COLISEUM & ORACLE ARENA

OAKLAND COLISEUM STRATA003
ORACLE ARENA STRATA004

7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE: 05/09/13

ISSUED FOR: CLIENT COMMENTS

REV	DATE	DESCRIPTION	INT
1	05/01/13	BOOK CD REVIEW (P3-81)	JH
2	04/02/13	BOOK CD REVIEW (P3-82)	JH
3	04/30/13	CLIENT COMMENTS (P3-83)	WH
4	05/09/13	CLIENT COMMENTS (P3-84)	WH

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET

LEADLINE:

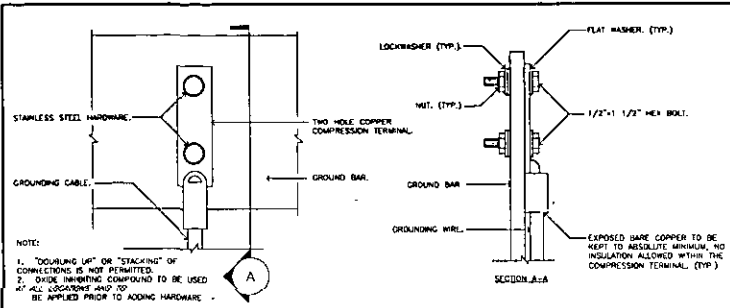
SHEET TITLE: ELECTRICAL SITE PLAN, CONTACTS, AND NOTES

SHEET NUMBER: E-1 REVISION: 3

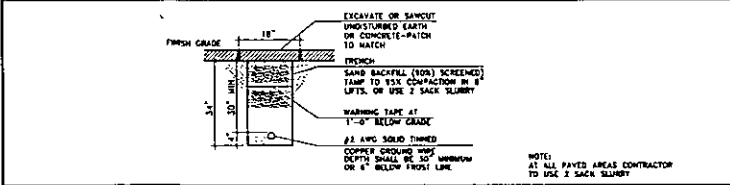
GENERAL NOTES 4

CONTACTS 1

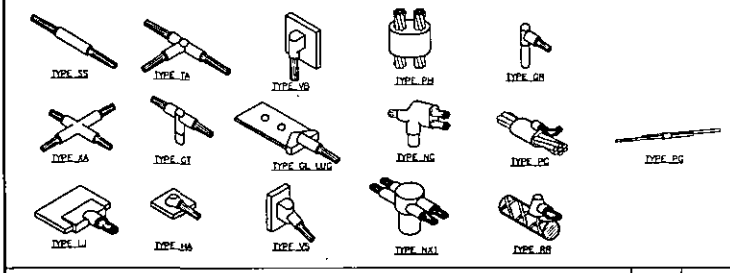
DATE PLOTTED: 05/09/13 12:18



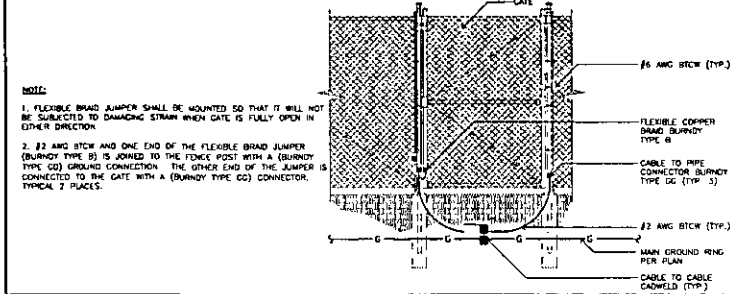
TYPICAL GROUND BAR CONNECTION SCALE: NONE 7



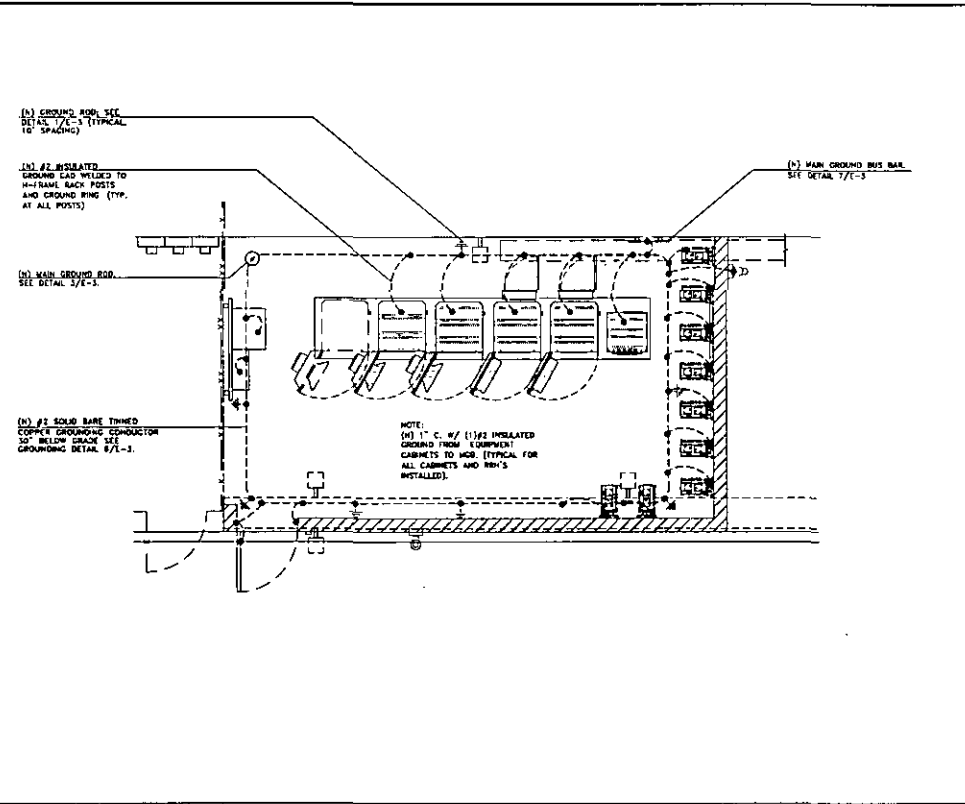
GROUNDING TRENCH SCALE: NONE 6



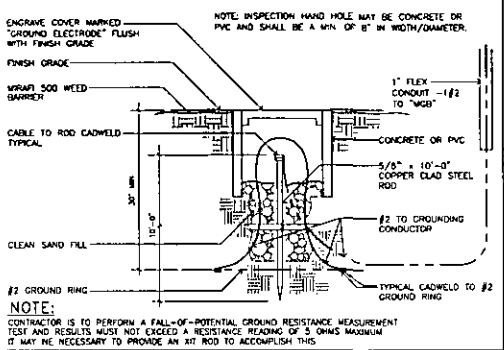
TYPICAL CADWELD TYPES SCALE: NONE 5



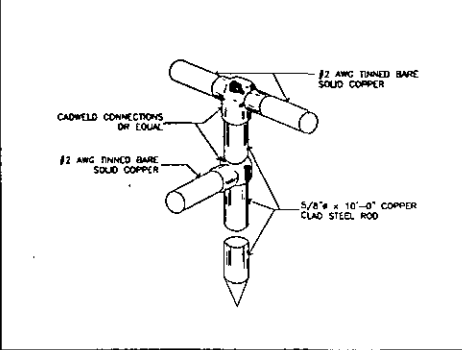
TYPICAL GATE BONDING DETAIL SCALE: NONE 4



LEASE AREA GROUNDING PLAN SCALE: NONE 2



MAIN GROUND TEST WELL SCALE: NONE 3



GROUND ROD SCALE: NONE 1



CORTEL COMMUNICATIONS
2300 West Le Monde
Los Angeles, Nevada 89130

JRA
Jeffrey Rome & Associates, Inc.
Architecture & Telecommunications
1 San Joaquin Plaza, Suite 250
Menlo Park, California 94025
Phone: (649) 780-3828
Fax: (649) 780-3921

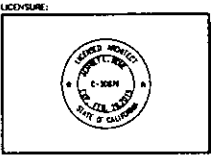
PROJECT INFORMATION
SPRINT DAS PROJECT
OAKLAND COLISEUM & ORACLE ARENA
OAKLAND COLISEUM ST/34000203
ORACLE ARENA ST/34000204
7000 COLISEUM WAY
OAKLAND, CALIFORNIA 94621

ISSUED DATE:
05/09/13

ISSUED FOR:
CLIENT COMMENTS

REVISIONS			
REV	DATE	DESCRIPTION	INT
1	03/01/13	90% CD REVIEW (P3-B1)	JH
2	04/02/13	100% CD REVIEW (P3-B2)	JH
3	04/30/13	CLIENT COMMENTS (P3-B3)	MW
4	05/09/13	CLIENT COMMENTS (P3-B4)	MW

NOT FOR CONSTRUCTION UNLESS LABELED AS CONSTRUCTION SET



SHEET TITLE:
GROUNDING PLAN AND DETAILS

SHEET NUMBER: **E-3** REVISION: **3**

DATE PLOTTED: 05/14/13



ATTACHMENT B

Leslie D. Zimmerman
480 Bush Street
San Francisco, CA 94108
OFFICE OF THE CITY CLERK
OAKLAND

T: 714-448-1001
Leslie.Zimmerman@att.com

2013 JUN 20 PM 1:45

May 20, 2013

City of Oakland

RE: Collocation of Verizon and Sprint on AT&T Neutral Host DAS at O.co Coliseum and Oracle Arena as contemplated in:

LICENSE AGREEMENT for ORACLE ARENA

between New Cingular Wireless PCS, LLC, and OAKLAND-ALAMEDA COUNTY COLISEUM AUTHORITY, a California joint powers authority organized and existing under applicable provisions of the California Government Code and an Amended and Restated Joint Exercise of Powers Agreement, dated December 17, 1996, by and between the County of Alameda (the "County") and the City of Oakland (the "City")

AND

LICENSE AGREEMENT FOR OAKLAND COLISEUM

between New Cingular Wireless PCS, LLC and OAKLAND-ALAMEDA COUNTY COLISEUM AUTHORITY, a California joint powers authority organized and existing under the applicable provisions of the California Government Code and an Amended and Restated Joint Exercise of Powers Agreement, dated December 1996, by and between the County of Alameda (the "County") and the City of Oakland (the "City")

City of Oakland Representative:

AT&T respectfully requests the County's approval to add Verizon and Sprint to the AT&T Neutral Host DAS at both O.co Coliseum and Oracle Arena. With the written permission of the Executive Director of the Oakland-Alameda County Coliseum Authority ("Authority" - please see attached), we have been working toward having Verizon installed and operating at both venues. Sprint is working with the office of the Executive Director for approvals at this time. Both Verizon and Sprint have signed or will be signing separate ground space Agreements with the Authority.

Although we previously thought that the approval of the Executive Director would be sufficient approval for these collocations we have now been directed to come to the City for the City's specific approval.

Section 17 of the License Agreements shown in this letter's subject line that were fully executed on April 26, 2011 and October 28, 2010 respectively, states:

17. **ASSIGNMENT/SUBLICENSE.** Licensee will have the right to assign this Agreement or sublicense the Premises and any of its rights herein, in whole or in part, with the consent of Licensor, which consent shall not be unreasonably delayed or withheld and the consent of the City and County, not to be unreasonably withheld, conditioned or delayed. Upon such acceptance, and subject to reasonable conditions of acceptance which may be imposed by Licensor, the City, or the County, or any of them, Licensee will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment. Notwithstanding the above, Licensee may assign this Agreement or sublicense the Premises and any of its rights herein, in whole or in part, to any Affiliate



of Licensee without the consent of Licensor, the City or the County, upon not less than thirty (30) days written notice to Licensor. The parties acknowledge that conferring or sublicensing DAS user rights by Licensee to other wireless communications companies is contemplated, and Licensor shall cooperate to reasonably review and approve requests presented by Licensee to Licensor for other wireless communications companies to use the DAS as may be presented by Licensee from time to time during the Term.

The purpose of this letter is to receive your acknowledgement and approval that Verizon and Sprint may join the AT&T Neutral Host DAS at Oakland Coliseum and Oracle Arena. All terms of the Licenses are in effect and this letter in no way changes any term(s) therein.

Please sign and return this letter at your earliest opportunity.

If you have any questions about this matter, please do not hesitate contacting me.

Thank you,

Leslie Zimmerman
AT&T Mobility – ASG
Business Development - West
Email: Leslie.Zimmerman@att.com
Phone: (714) 448-1001

City of Oakland

Printed Name

Title



Leslie D. Zimmerman T: 714-448-1001
430 Bush Street Leslie.Zimmerman@att.com
San Francisco, CA 94108

May 20, 2013

City of Oakland

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If you have any questions about this matter, please do not hesitate contacting me.

Thank you,

Leslie Zimmerman
AT&T Mobility - ASG
Business Development - West
Email: Leslie.Zimmerman@att.com
Phone: (714) 448-1001

Alameda County
Oakland-Alameda County Coliseum Authority

Printed Name

Title

FILED
OFFICE OF THE CITY CLERK
OAKLAND

OAKLAND CITY COUNCIL



City Attorney

RESOLUTION No. _____ C.M.S.
2013 JUN 20 PM 1:25
Introduced by Councilmember _____

A RESOLUTION APPROVING AND AUTHORIZING THE EXECUTION OF A LICENSE AGREEMENT BETWEEN SPRINT SPECTRUM L.P. AND THE OAKLAND ALAMEDA COUNTY COLISEUM AUTHORITY AND CERTAIN RELATED MATTERS, AND AUTHORIZING THE CITY ADMINISTRATOR TO CONSENT TO A WIRELESS SUBLEASE AGREEMENT BETWEEN AT&T, VERIZON WIRELESS, SPRINT SPECTRUM L.P. AND THE OAKLAND ALAMEDA COUNTY COLISEUM AUTHORITY

WHEREAS, Sprint Spectrum L.P. ("Sprint/Nextel") has requested that the Oakland Alameda County Coliseum Authority (the "Authority") enter into a license agreement (the "License Agreement") allowing Sprint/Nextel to construct and join the existing AT&T Distributed Antenna System ("DAS") within the O.Co Coliseum and the Oracle Arena located at the Oakland Alameda County Coliseum Complex ("Coliseum Complex") to enhance Sprint/Nextel cellular service within the Coliseum Complex; and

WHEREAS, the Authority's agent, Oakland Coliseum Joint Venture ("OCJV"), has approved the design of the Sprint/Nextel equipment which would connect with the existing DAS; and

WHEREAS, Sprint/Nextel will pay all the costs of installation and certain license fees as consideration for installation and use of the DAS; and

WHEREAS, AT&T has additionally requested that the Authority approve a sublease to Sprint/Nextel and Verizon to use the existing DAS at the Coliseum Complex under the terms of AT&T's current lease; and

WHEREAS, the terms of AT&T's existing lease for the DAS require that the Authority not unreasonably deny or delay consent to such subleases; and

WHEREAS, the Authority approved both proposed agreements, contingent on final approval, respectively, by the City of Oakland and the County of Alameda; and

WHEREAS, the Authority desires to enter into the License Agreement with Sprint/Nextel and to consent to the sublease requested by AT&T; and

WHEREAS, the Management Agreement for the Coliseum Complex requires that the Authority obtain the approval of the City of Oakland and County of Alameda prior to executing such agreements; and

WHEREAS, the Authority determines that entering into these agreements is in the best interest of the Authority; and

WHEREAS, staff has provided the staff report which accompanies this proposed resolution, recommending to the Oakland City Council that it approve and authorize the execution of the agreements; and

WHEREAS, staff has provided a true and correct copy of the License Agreement and the letter consenting to the sublease, as attached to the staff report which accompanies this resolution; and

WHEREAS, implementation of the agreements will not have a negative impact on the City of Oakland finances; and

WHEREAS, City of Oakland finances will benefit because revenues generated by the License Agreement will be applied to Authority operating expenses, thereby reducing the corresponding amount of funds that the City of Oakland must allocate to fund Authority expenses; now, therefore be it

RESOLVED: That the City of Oakland finds, determines, and declares that all the recitals above set forth are true and correct; and be it

FURTHER RESOLVED: That the City of Oakland approves and authorizes the execution and delivery by the Authority's Chair of the License Agreement, in substantially the form as presented in the proposed License Agreement attached to the Staff Report accompanying this Resolution, with only those changes that the Authority shall approve. The Authority's secretary is hereby authorized to attest, to the extent required, the License Agreement; and be it

FURTHER RESOLVED: That the City Administrator is authorized to sign the letter requested by AT&T, consenting to the proposed sublease to Sprint/Nextel and Verizon, to use the existing DAS at the Coliseum Complex under the terms of AT&T's current lease; and be it

FURTHER RESOLVED: That the City of Oakland authorizes the Authority to do any and all things and take any and all actions and execute and deliver any and all agreements, and other documents which the Authority may deem necessary or advisable in order to effectuate the purposes of this resolution; and be it

FURTHER RESOLVED: That the City of Oakland authorizes and directs the City Administrator, for and on behalf of the City of Oakland, to do any and all things and take any and all actions and execute and deliver any and all agreements and other documents which may be deemed necessary or advisable in order to effectuate the purposes of this resolution.

IN COUNCIL, OAKLAND, CALIFORNIA, _____, 20_____

PASSED BY THE FOLLOWING VOTE:

AYES - BROOKS, GALLO, GIBSON MCELHANEY, KALB, KAPLAN, REID, SCHAAF and PRESIDENT KERNIGHAN

NOES -

ABSENT -

ABSTENTION -

ATTEST: _____

LaTonda Simmons
City Clerk and Clerk of the Council
of the City of Oakland, California