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OFFICE OF THE CITY CLERK
OAKLAND
2014 SEP 11 AM 10:53

AGENDA REPORT

TO: HENRY L. GARDNER
INTERIM CITY ADMINISTRATOR

FROM: Osborn K. Solitei

SUBJECT: First Amendment to Coliseum Authority
Wireless Agreement with Verizon

DATE: August 25, 2014

City Administrator
Approval

Date 9-10-14

RECOMMENDATION

Staff recommends that the City Council adopt a City of Oakland Resolution:

Approving And Authorizing The Execution Of The First Amendment To License Agreement Between GTE Mobilnet Of California Limited Partnership, D/B/A Verizon Wireless ("Verizon") And The Oakland Alameda County Coliseum Authority ("Authority")

OUTCOME

Adoption of this resolution will authorize the City Administrator to execute a First Amendment to the License Agreement with GTE Mobilnet of California Limited Partnership, DBA Verizon Wireless, 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 to amend Wireless License Agreement with Verizon Wireless.

BACKGROUND/LEGISLATIVE HISTORY

In September 2012, the Board of Commissioners entered into a License Agreement with GTE Mobilnet of California Limited Partnership, DBA Verizon Wireless, to permit it to install a Distributed Antenna System (DAS) in the Coliseum Complex. In the process of designing the installation of the DAS, Verizon became aware that it required additional space for the equipment associated with DAS. Verizon has requested that the Authority amend the License Agreement to add the additional space necessary for the installation. Anschutz Entertainment Group (AEG), which manages the Coliseum Complex, has approved the extent and location of the additional space.

Item: _____
City Council
September 23, 2014

ANALYSIS

The proposed First Amendment to the License Agreement with GTE Mobilnet of California Limited Partnership, dba Verizon Wireless is included in Attachment to this staff report. The following is a summary of the key terms of the proposed Amendment:

1. The Amendment contains a revised Exhibit incorporating the proposed addition of space required for installation (4 feet by 11 feet);
2. As compensation for this additional space, Verizon has agreed to pay the Authority an additional \$2,400 per year.

COORDINATION

Staff from the City Administrator's Office, the Controller's Bureau and the Office of the City Attorney has reviewed this report.

COST SUMMARY/IMPLICATIONS

There is no direct cost to the City of Oakland from the adoption of this resolution. Additional annual fees from the amended license agreement with GTE Mobilnet of California Limited Partnership, DBA Verizon Wireless will be 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.

Henry L. Gardner, Interim City Administrator

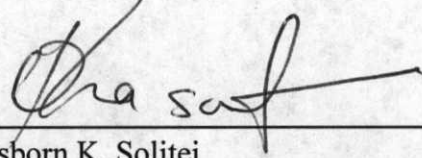
Subject: First Amendment to Coliseum Authority Wireless Agreement with Verizon

Date: August 25, 2014

Page 3

For questions regarding this report, please contact Osborn K. Solitei, Director of Finance/
Controller, at (510) 238-3809.

Respectfully submitted,



Osborn K. Solitei
Director of Finance/ Controller

Attachment A: Proposed First Amendment to the License Agreement with GTE Mobilnet of
California Limited Partnership, DBA Verizon Wireless

Item: _____
City Council
September 23, 2014

ATTACHMENT A

FIRST AMENDMENT TO LICENSE AGREEMENT

This First Amendment to License Agreement ("**First Amendment**") is made effective as of April 1, 2014 (the "**Effective Date**") by and 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 and the City of Oakland ("**Licensor**") and GTE Mobilnet of California Limited Partnership, d/b/a Verizon Wireless ("**Licensee**"), with reference to the facts set forth in the Recitals below:

RECITALS

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 "**Property**"); and

B. WHEREAS, Licensor and Licensee are parties to a License Agreement dated December 6, 2012 (the "**Agreement**"), pursuant to which Licensee licenses certain space within the Structure (the "**Equipment Space**") for the operation of a Distributed Antenna System ("**DAS**"); and

C. WHEREAS, Licensor's management agent, AEG Management Oakland, LLC, a California 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

D. Licensor and Licensee have agreed to amend the Agreement to expand the Equipment Space to accommodate the installation of additional DAS equipment.

AGREEMENT

NOW, THEREFORE, in consideration of the facts contained in the Recitals above, the mutual covenants and conditions below, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties agree as follows:

1. Exhibits. The parties acknowledge and agree that the attached **Exhibit 1B-1** attached to this First Amendment is intended to supplement the **Exhibit 1B** attached to the Agreement. To the extent of any discrepancies between **Exhibit 1B** and **Exhibit 1B-1**, the **Exhibit 1B-1** shall control.

2. Additional Equipment Space. Section 2(a) of the Agreement is hereby amended to reflect that the Equipment Space shall be expanded to include a separate parcel of space measuring approximately four feet (4') by eleven feet (11') (the "**Additional Equipment Space**") to accommodate the installation and operation of Licensee's additional DAS equipment, which Additional Equipment Space shall hereafter be considered part of the Premises. Licensor

hereby consents to the installation and operation of such equipment, as described and depicted in Exhibit 1B-1.

3. License Fee Increase. Beginning on the first (1st) day of the month following the full execution of this First Amendment (the "**License Fee Increase Date**"), the annual License Fee shall increase by Two Thousand Four Hundred Dollars (\$2,400.00) (the "**License Fee Increase**"). Licensor acknowledges that the initial payment of the License Fee Increase may not actually be sent by Licensee until thirty (30) days after the License Fee Increase Date.

4. Continued Effect. Except as specifically modified by this First Amendment, all of the terms and conditions of the Agreement shall remain in full force and effect. In the event of a conflict between any term and provision of the Agreement and this First Amendment, the terms and provisions of this First Amendment shall control. In addition, except as otherwise stated in this First Amendment, all initially capitalized terms will have the same respective defined meanings stated in the Agreement. All captions are for reference purposes only and shall not be used in the construction or interpretation of this First Amendment.

IN WITNESS WHEREOF, Licensor and Licensee have caused this First Amendment to be executed by each party's duly authorized representative effective as of the Effective Date.

"LICENSOR"

Oakland-Alameda County Coliseum Authority

By: Nate Kuley
Chair

Date: July 29, 2014

"LICENSEE"

GTE Mobilnet of California Limited Partnership,
d/b/a Verizon Wireless

By: Cellco Partnership
Its: General Partner

By: Brian Mecum

Print Name: Brian Mecum

Its: Area Vice President Network

Date: 5-27-14


ACKNOWLEDGED AND APPROVED:

CITY OF OAKLAND

By: _____
Print Name: _____
Its: _____
Date: _____, 2014

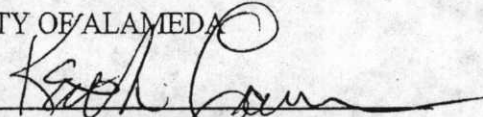
APPROVED AS TO FORM:

OFFICE OF THE CITY ATTORNEY

By:  _____
Print Name: _____
Its: _____
Date: _____, 2014

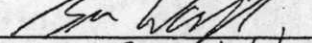
ACKNOWLEDGED AND APPROVED:

COUNTY OF ALAMEDA

By:  _____
Print Name: **KEITH CARSON**
Its: _____
Date: July 29, 2014

APPROVED AS TO FORM:

OFFICE OF THE COUNTY COUNSEL

By:  _____
Print Name: Brian Washington
Its: _____
Date: July 20, 2014

ACKNOWLEDGED AND APPROVED:

AEG Management Oakland, LLC
a California limited liability company

By: _____
Print Name: _____
Its: Authorized Representative
Date: _____, 2014

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

State of California

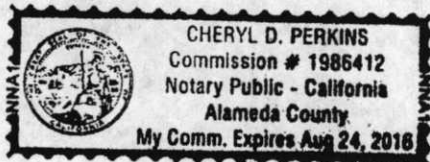
County of Alameda

On 7/29/2014

before me, Cheryl D. Perkins, Notary Public

personally appeared Nate Miley

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Cheryl D. Perkins

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document:

Document Date: Number of Pages:

Signer(s) Other Than Named Above:

Capacity(ies) Claimed by Signer(s)

Signer's Name:

Corporate Officer - Title(s):

Individual

Partner - Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other:

Signer Is Representing:

RIGHT THUMBPRINT OF SIGNER Top of thumb here

Corporate Officer - Title(s):

Individual

Partner - Limited General

Attorney in Fact

Trustee

Guardian or Conservator

Other:

Signer Is Representing:

RIGHT THUMBPRINT OF SIGNER Top of thumb here

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

CIVIL CODE § 1189

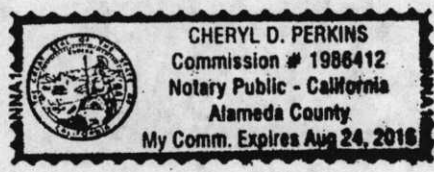
State of California

County of Alameda

On 7/29/2014 before me, Cheryl D. Perkins, Notary Public

personally appeared Keith Carson

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal
Signature: Cheryl D. Perkins
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

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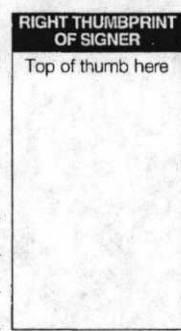
Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____ Signer's Name: _____

- | | |
|--|--|
| <input type="checkbox"/> Corporate Officer — Title(s): _____ | <input type="checkbox"/> Corporate Officer — Title(s): _____ |
| <input type="checkbox"/> Individual | <input type="checkbox"/> Individual |
| <input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General | <input type="checkbox"/> Partner — <input type="checkbox"/> Limited <input type="checkbox"/> General |
| <input type="checkbox"/> Attorney in Fact | <input type="checkbox"/> Attorney in Fact |
| <input type="checkbox"/> Trustee | <input type="checkbox"/> Trustee |
| <input type="checkbox"/> Guardian or Conservator | <input type="checkbox"/> Guardian or Conservator |
| <input type="checkbox"/> Other: _____ | <input type="checkbox"/> Other: _____ |



Signer Is Representing: _____

Signer Is Representing: _____

EXHIBIT 1B-1

Depiction of Additional Equipment Space

See attached.

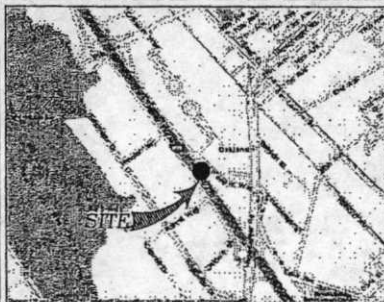


OAKLAND COLISEUM

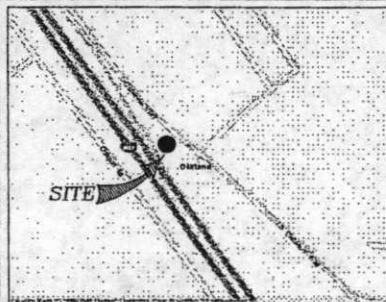
250504

7000 COLISEUM WAY
OAKLAND, CA 94621

VICINITY MAP - N.T.S.



AREA MAP - N.T.S.



DRIVING DIRECTIONS

FROM: VERIZON WIRELESS REGIONAL OFFICE
IN WALNUT CREEK, CA
2785 MITCHELL DRIVE
WALNUT CREEK, CA 94598

TO: 7000 COLISEUM WAY
OAKLAND, CA 94621

DISTANCE: 12.39 MILES

1. HEAD SOUTHWEST ON MITCHELL DRIVE TOWARD NORTH WIGET LANE
2. TURN LEFT AT NORTH WIGET LANE
3. TURN RIGHT ON YONKID VALLEY ROAD
4. MERGE ONTO CA-24 WEST VIA THE RAMP TO OAKLAND
5. CONTINUE ONTO I-880 WEST
6. MERGE ONTO I-880 SOUTH
7. TAKE EXIT 37 FOR 66TH AVE/ZHONGE WAY TOWARD MCAFEE COLISEUM
8. TURN LEFT ONTO ZHONGE WAY
9. CONTINUE ONTO 66TH AVENUE
10. TURN RIGHT ONTO COLISEUM WAY
11. TURN LEFT TO STAY ON COLISEUM WAY (DIRECTION WILL BE ON THE RIGHT)

SIGNATURE BLOCK

VERIZON WIRELESS EQUIPMENT ENGINEER:		VERIZON WIRELESS REAL ESTATE:	
SIGNATURE	DATE	SIGNATURE	DATE
VERIZON WIRELESS CONSTRUCTION:		VERIZON WIRELESS RF ENGINEER:	
SIGNATURE	DATE	SIGNATURE	DATE
PROPERTY OWNER:		AGENT-LEASING:	
SIGNATURE	DATE	SIGNATURE	DATE
AGENT-CONSTRUCTION:		AGENT-ZONING:	
SIGNATURE	DATE	SIGNATURE	DATE

CODE COMPLIANCE

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 CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. CALIFORNIA ADMINISTRATIVE CODE (NCL TITLE 24 & 25)
2. 2010 CALIFORNIA BUILDING CODE
3. CITY/COUNTY ORDINANCES
4. BUILDING OFFICIALS AND CODE ADMINISTRATORS (BOCA)
5. 2010 CALIFORNIA MECHANICAL CODE
6. AMS/ISA-222-0 LIFE SAFETY CODE NFPA-101
7. 2010 CALIFORNIA PLUMBING CODE
8. 2010 CALIFORNIA ELECTRICAL CODE
9. LOCAL BUILDING CODE NOT FOR LOCAL INSPECTION

PROJECT DATA

PROPERTY OWNER: OAKLAND-ALAMEDA COUNTY COLISEUM AUTHORITY 7000 COLISEUM WAY, OAKLAND, CA 94612 CONTACT: MARK KAUFMAN PHONE:	ARCHITECT: DELTA GROUPS ENGINEERING, INC. 2362 MCGRAW AVENUE IRVINE, CA 92614 CONTACT: HAROLD TRIAS PHONE: (925) 468-0115
APPLICANT: VERIZON WIRELESS WALNUT CREEK EXECUTIVE PARK 2785 MITCHELL DRIVE BUILDING 9 WALNUT CREEK, CA 94598 CONTACT: PHIL WESTMORELAND PHONE: (925) 279-6048	STRUCTURAL ENGINEER: DELTA GROUPS ENGINEERING, INC. 2362 MCGRAW AVENUE IRVINE, CA 92614 CONTACT: ALBERT TENG PHONE: (949) 622-0333
LEASING MANAGER: NSA WIRELESS 2000 CROW CANYON PLACE, SITE 400, SAN RAMON, CA 94583 CONTACT: BILL NEVYN PHONE: (925) 244-1890	CONSTRUCTION MANAGER: NSA WIRELESS 2000 CROW CANYON PLACE, SITE 400, SAN RAMON, CA 94583 CONTACT: ROGER SHARP PHONE: (925) 244-1890
ZONING MANAGER: NSA WIRELESS 2000 CROW CANYON PLACE, SITE 400, SAN RAMON, CA 94583 CONTACT: CHARNEIL JAMES PHONE: (925) 244-1890	

BUILDING/ SITE DATA LEGEND

LATITUDE:	37.751328° N (NAD83)
LONGITUDE:	122.202098° W (NAD83)
ELEVATION:	±133' AMSL (NOVD 29)
A.P.N.:	CALTRANS RIGHT-OF-WAY
ZONING:	C-36
OCCUPANCY:	U, UNMANNED
TYPE OF CONSTRUCTION:	V-B
AREA OF CONST.:	32'x14' = 448 SQ. FT. 10'x10' = 100 SQ. FT. 11'x4' = 44 SQ. FT. 8'x3' = 24 SQ. FT.
HANDICAP REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. ACCESS NOT REQUIRED.
TITLE 24 REQUIREMENTS:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. TITLE 24 IS EXEMPT.

SHEET INDEX

T1	TITLE SHEET
A1	OVERALL SITE PLAN
A2	ENLARGED SITE PLAN & CONSTRUCTION NOTES
A3	EQUIPMENT AREA PLAN, SOUTHWEST ELEVATION & ENLARGED SOUTHWEST ELEVATION
A3.1	EQUIPMENT PLAN AT TUNNEL LOCATION & DETAILS
A3.2	SOFFIT PLAN & DETAILS
A4	DETAILS
A5	DETAILS
A6	DETAILS
A6	DETAILS
S1	STRUCTURAL NOTES
S2	FOUNDATION PLAN, DETAILS & HVAC MOUNTING
S3	ROOF PLAN & DETAILS
E1	ELECTRICAL & TELEPHONE SPECIFICATIONS, & UTILITIES NOTES
E2	UTILITIES SITE PLAN
E3	ENLARGED UTILITIES PLAN, ELECTRICAL ELEC. LIGHTING PLAN & LIT. FIXTURE SCHEDULE
E4	1-LINE DIAGRAMS & PANEL SCHEDULE
E5	ALARM RELAY SCHEMATIC, 1-LINE DIAGRAM FOR ALARM, MATERIALS LIST & PANEL SCHEDULE
E6	GROUNDING PLAN, GENERAL GROUNDING NOTES, & DETAILS
E7	GROUNDING DETAILS & CABLE SCHEDULE
E8	BARD TYPICAL LEAD/LAG WIRING DIAGRAM
N1	GENERAL NOTES, LEGEND, & ABBREVIATIONS
N2	STANDARD NOTES & SPECIFICATIONS
N3	BATTERIES-MATERIALS SAFETY DATA SHEET

PROJECT DESCRIPTION

INSTALLATION OF A WIRELESS COMMUNICATIONS FACILITY, INCLUDING THE CONSTRUCTION OF A PROPOSED 22'x14' CUSTOM BUILT EQUIPMENT SHELTER ENCLOSED WITHIN A 32'-0"x14'-0" LEASE AREA, A 10'-0"x10'-0" LEASE AREA FOR ASSOCIATED UTILITIES AND COAXIAL CABLE LINES, A 11'-0"x4'-0" LEASE AREA FOR ADDITIONAL EQUIPMENT LOCATED INSIDE BUILDING & 6'-0"x3'-0" LEASE AREA FOR NEW SOFFIT.

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV. DATE DESCRIPTION BY:

07/31/13	CD (DESIGN CHANGE)	JL
07/29/13	CD (DESIGN CHANGE)	JL
07/26/13	CD (ISSUE)	JL
06/26/13	CD (ISSUE)	JL
11/11/11	CD (ISSUE)	JL

PLANS PREPARED BY:

DELTA GROUPS ENGINEERING, INC.
CONSULTING ENGINEERS

8435 WEST LANE ROSSDALE SUITE 400
PLEASANTON, CA 94588
TEL: (925) 468-0115 FAX: (925) 468-0335

CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:
TITLE SHEET

SHEET NUMBER: **T1** REVISION: **5**

P11NS007

verizonwireless
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

**OAKLAND COLISEUM
 250504**
 7000 COLISEUM WAY
 OAKLAND, CA 94621
 ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
07/31/13	CD (DESIGN CHANGE)	JK	
07/09/13	CD (DESIGN CHANGE)	JK	
06/06/13	CD (RFR)	JK	
06/04/13	CD (RFR)	JK	
11/11/11	CD (RFR)	JT	

PLANS PREPARED BY:
**DELTA GROUPS
 ENGINEERING, INC.**
 CONSULTING ENGINEERS
 3625 WEST LAS POSAS, SUITE 403
 PLEASANTON, CA 94566
 TEL: (925) 466-0115 FAX: (925) 466-5205

CONSULTANT:

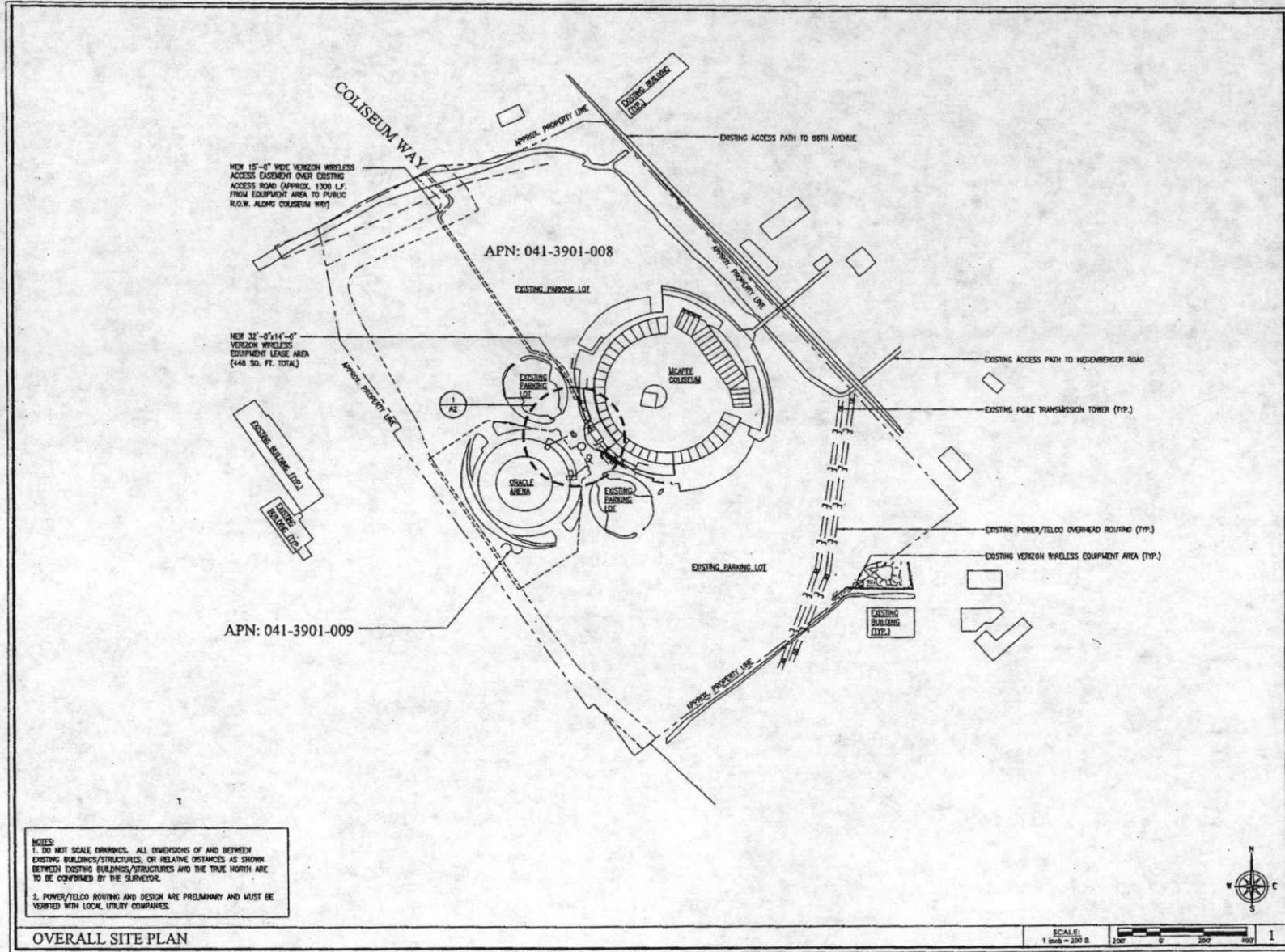
SEAL OF APPROVAL:

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER: REVISION:

A1 5
 P111NS007



NOTES:
 1. DO NOT SCALE DIMENSIONS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.
 2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.

OVERALL SITE PLAN

SCALE: 1 inch = 200 ft.
 200' 0' 200' 0' 1



KEY NOTES:

- 1 NEW VERIZON WIRELESS 22'-0"x14'-0" CUSTOM BUILT EQUIPMENT SHELTER LOCATED AT MAIN CONCRETE FLOOR LEVEL ENCLOSED WITHIN A 32'-0"x14'-0" LEASE AREA
- 2 OUTLINE OF EXISTING LANDSCAPING TO BE REMOVED
- 3 NEW 5'-0" WIDE VERIZON WIRELESS ACCESS EASEMENT OVER EXISTING ACCESS ROAD (APPROX. 20 L.F. COLISEUM WAY TO EQUIPMENT AREA)
- 4 NEW COAX CABLE OVERHEAD ROUTING ALONG FLOOR LEVEL OR CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 800 L.F. FROM EQUIPMENT SHELTER TO NEXT EQUIPMENT AREA) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 5 NEW POWER OVERHEAD ROUTING ALONG FLOOR LEVEL OR CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 800 L.F. FROM POWER P.O.C. TO 200A METER AT METER RACK & 42 L.F. FROM 200A METER TO EQUIPMENT SHELTER PFC) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 6 NEW TELCO OVERHEAD ROUTING ALONG FLOOR LEVEL OR CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 900 L.F. FROM TELCO P.O.C. TO EQUIPMENT SHELTER) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 7 NEW COAX CABLE ROUTING ALONG EXISTING WALL (APPROX 60 L.F. FROM CONDUITS STUB-UP TO AT&T EQUIPMENT CABINET)
- 8 EXISTING ELECTRICAL ROOM (POWER P.O.C.)
- 9 EXISTING TELCO ROOM (TELCO P.O.C.)
- 10 NEW H-FRAME W/ OVERHEAD COVER & (4) 6" CONDUITS STUB-UP
- 11 NEW BUSSED CLUTTER W/ (3) DIS. CBS. (2 FOR FUTURE)
- 12 NEW 15'-0" WIDE VERIZON WIRELESS ACCESS EASEMENT OVER EXISTING ACCESS ROAD (SEE SHEET A1 FOR CONTINUATION)
- 13 EXISTING ACCESS ROAD (TYP.)
- 14 EXISTING STADIUM MAIN ACCESS (TYP.)
- 15 EXISTING LANDSCAPING DECOR (TYP.)
- 16 EXISTING AIR/EQUIPMENT AREA (TYP.)
- 17 EXISTING OVERHANG SLAB WITH LANDSCAPE AREA BELOW (TYP.)
- 18 EXISTING UNDERGROUND PARKING LOT (TYP.)
- 19 NEW 150KVA STEP-DOWN TRANSFORMER MOUNTED TO EXISTING CONCRETE SLAB
- 20 NEW TELCO CABINET MOUNTED TO NEW H-FRAME
- 21 NEW 16'-0"x10'-0" UTILITY AREA WITHIN A CHAIN LINK FENCE ENCLOSURE - LOCATION OF NEW COMMON UTILITY EQUIPMENT
- 22 NEW TEXO EQUIPMENT LOCATED AT LOTS B & C TUNNEL
- 23 LOCATION OF NEW SOFFIT (TYP.)

NOTES:

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.
2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.

ENLARGED SITE PLAN

1. CONTRACTOR SHALL CONTACT DELTA GROUPS ENGINEERING, INC. (925) 468-0115 FOR CLARIFICATION OF PLANS.
2. THE APPLICANT, ARCHITECT/ENGINEER, AND REPRESENTATIVES OF THE OWNER, MUST BE NOTIFIED AT LEAST TWO FULL DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. DO NOT EXCAVATE OR DISTURB BEYOND THE PROPERTY LINES OR LEASE LINES, UNLESS OTHERWISE NOTED.
4. DO NOT SCALE BUILDING DIMENSIONS FROM DRAWINGS.
5. ANY DRAIN AND/OR FIELD TILE ENCOUNTERED DURING CONSTRUCTION SHALL BE RECORDED TO ITS ORIGINAL CONDITION PRIOR TO COMPLETION OF WORK. SIZE, LOCATION AND TYPE OF ANY UNDERGROUND UTILITIES OR IMPROVEMENTS SHALL BE ACCURATELY NOTED AND PLACED ON AS-CONSTRUCTED DRAWINGS BY GENERAL CONTRACTOR AND ISSUED TO ARCHITECT/ENGINEER AT COMPLETION OF PROJECT.

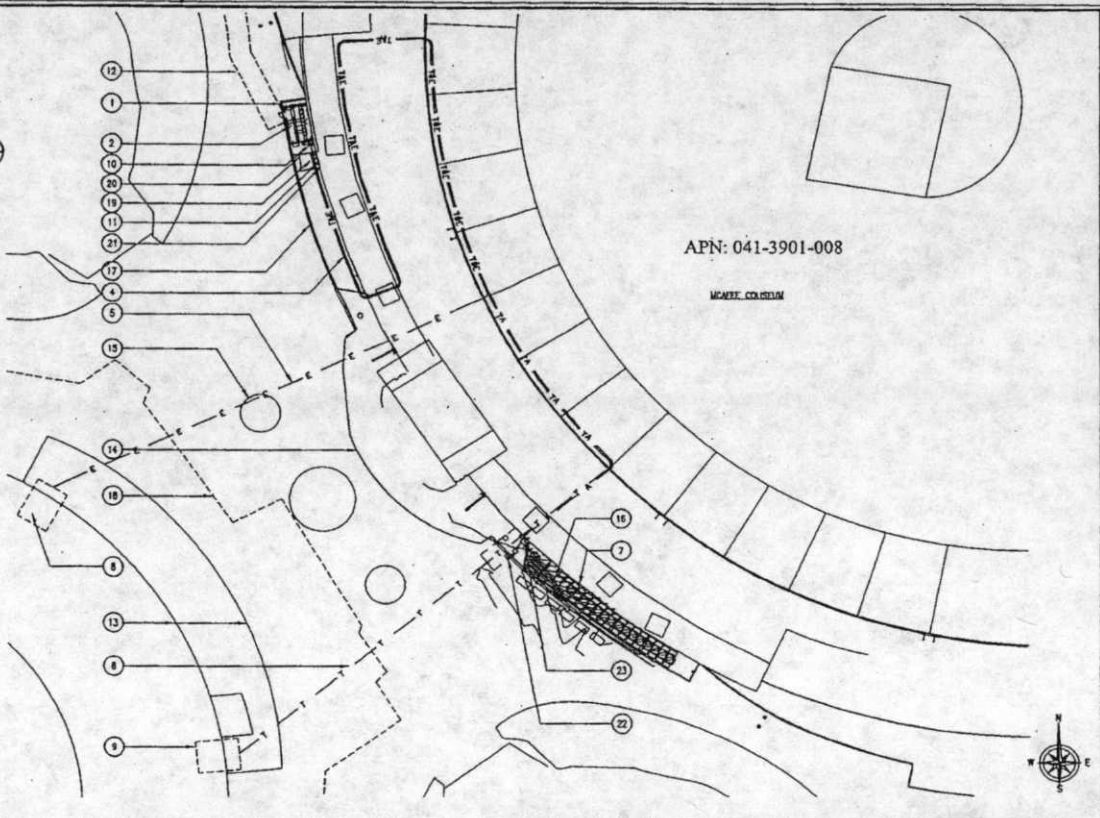
6. ALL EXISTING UTILITIES, FACILITIES, CONDITIONS, AND THEIR DIMENSIONS SHOWN ON PLANS HAVE BEEN PLOTTED FROM AVAILABLE RECORDS. THE ARCHITECT/ENGINEER AND OWNER ASSUME NO RESPONSIBILITY WHATSOEVER AS TO THE SUFFICIENCY OR ACCURACY OF THE INFORMATION SHOWN ON THE PLANS OR THE MANNER OF THEIR REMOVAL OR ADJUSTMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING EXACT LOCATION OF ALL EXISTING UTILITIES AND FACILITIES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL ALSO OBTAIN FROM EACH UTILITY COMPANY DETAILED INFORMATION RELATIVE TO WORKING SCHEDULES AND METHODS OF REMOVING OR ADJUSTING EXISTING UTILITIES.
7. CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES BOTH HORIZONTALLY AND VERTICALLY PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES OR DOUBTS AS TO THE INTERPRETATION OF PLANS SHOULD BE IMMEDIATELY REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION AND INSTRUCTION, AND NO FURTHER WORK SHALL BE PERFORMED UNTIL THE DISCREPANCY IS CHECKED AND CORRECTED BY THE ARCHITECT/ENGINEER. FAILURE TO SECURE SUCH INSTRUCTION MEANS CONTRACTOR WILL HAVE WORKED AT HIS/HER OWN RISK AND EXPENSE. CONTRACT SHALL CALL LOCAL DIGGER HOT LINE FOR UTILITY LOCATIONS 48 HOURS PRIOR TO START OF CONSTRUCTION.
8. ALL PROPOSED AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS TO BE DISTRIBUTED BY CONSTRUCTION SHALL BE ADJUSTED TO FINISH ELEVATIONS PRIOR TO FINAL INSPECTION OF WORK.

9. THE BUILDING DEPARTMENT ISSUING THE BUILDING PERMIT SHALL BE NOTIFIED AT LEAST TWO WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK OR AS STIPULATED BY THE CODE ENFORCEMENT OFFICIAL HAVING JURISDICTION.
10. GRADING OF THE SITE WORK AREA IS TO BE SMOOTH AND CONTINUOUS IN SLOPE AND IS TO FURTHER INTO EXISTING GRADES AT THE GRADING LIMITS.
11. ALL TEMPORARY EXCAVATIONS FOR THE INSTALLATION OF FOUNDATIONS, UTILITIES, ETC., SHALL BE PROPERLY LAD BACK OR BRACED IN ACCORDANCE WITH CORRECT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REQUIREMENTS.
12. STRUCTURAL FILLS SUPPORTING PAVEMENTS SHALL BE COMPACTED TO 100% OF MAXIMUM STANDARD PROCTOR DRY DENSITY.
13. PROPOSED GRADES NOT IN BUILDING AND DRIVEWAY IMPROVEMENT AREA TO BE ACHIEVED BY FILLING WITH APPROVED CLEAN FILL AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY.
14. ALL FILL SHALL BE PLACED IN UNIFORM LIFTS. THE LIFTS THICKNESS SHOULD NOT EXCEED THAT WHICH CAN BE PROPERLY COMPACTED THROUGHOUT ITS ENTIRE DEPTH WITH THE EQUIPMENT AVAILABLE.
15. ANY FILLS PLACED ON EXISTING SLOPES THAT ARE STEEPER THAN 1 HORIZONTAL TO 1 VERTICAL, SHALL BE PROPERLY BENCHED INTO THE EXISTING SLOPE AS DIRECTED BY A GEOTECHNICAL ENGINEER.

16. THE GRADES WITHIN THE FENCED-IN AREA ARE TO BE ACHIEVED BY COMPACTING CLEAN FILL TO A DENSITY OF 90% OF STANDARD PROCTOR COVERING THE AREA WITH 6 MIL VERBOND (1" OVERLAP AT SEAMS) FOR WEED SUPPRESSION, THEN ACHIEVING FINISH GRADE BY ADDING 6" OF 3/4" CRUSHED STONE-HD FINES.
17. CONTRACTOR SHALL CLEAN ENTIRE SITE AFTER CONSTRUCTION SUCH THAT NO TWIGS, TRASH, WEEDS, BRUSH OR ANY OTHER DEBRIS WILL REMAIN. ALL MATERIALS COLLECTED DURING CLEANING OPERATIONS SHALL BE DEPOSITED OFF-SITE BY THE GENERAL CONTRACTOR.
18. ALL TREES AND SHRUBS WHICH ARE NOT IN DIRECT CONFLICT WITH THE IMPROVEMENTS SHALL BE PROTECTED BY THE GENERAL CONTRACTOR.
19. DRIVEWAY CONSTRUCTION, GRADING AND DRAINAGE WORK SHALL CONFORM TO CALIFORNIA STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATION FOR THE ROAD AND BRIDGE CONSTRUCTION", LATEST EDITIONS, AND ALL APPLICABLE PROVISIONS OR LOCAL COUNTY ORDINANCES.
20. ALL SITE WORK SHALL BE CAREFULLY COORDINATED BY GENERAL CONTRACTOR WITH LOCAL UTILITY COMPANY, TELEPHONE COMPANY, AND ANY OTHER UTILITY COMPANIES HAVING JURISDICTION OVER THIS LOCATION.

CONSTRUCTION NOTES

2



APN: 041-3901-008

MEATEL COLISEUM

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV. # DATE DESCRIPTION BY:

REV. #	DATE	DESCRIPTION	BY
1	07/31/13	CD (DESIGN CHANGE)	JA
2	07/31/13	CD (DESIGN CHANGE)	JA
3	08/05/13	CD (ISSUE)	JA
4	08/05/13	CD (ISSUE)	JA
5	11/21/11	CD (ISSUE)	JT

PLANS PREPARED BY:

DELTA GROUPS ENGINEERING, INC.
CONSULTING ENGINEERS

3425 WEST LAS POSAS, SUITE 400
PLEASANTON, CA 94588
TEL: (925) 468-9115 FAX: (925) 468-0335

CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:
ENLARGED SITE PLAN & CONSTRUCTION NOTES

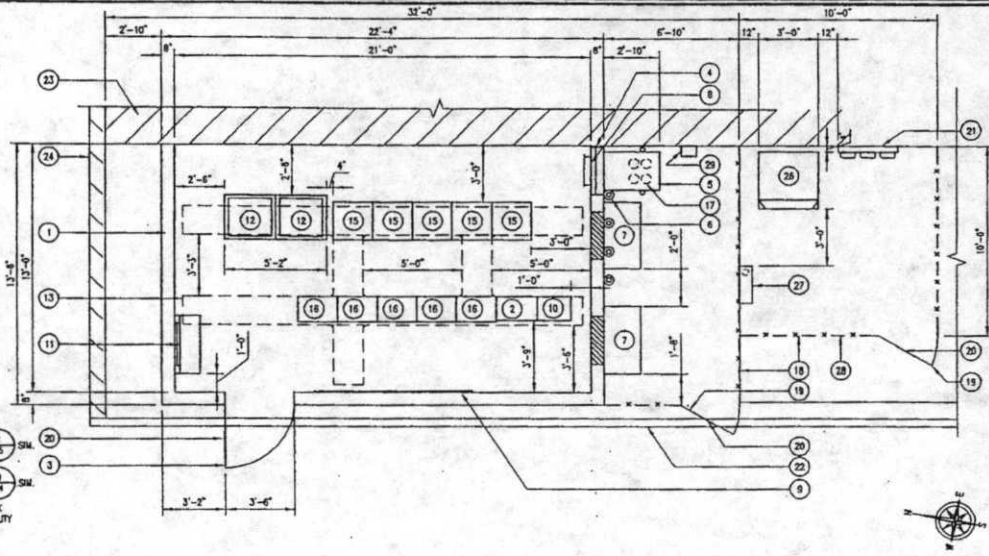
SHEET NUMBER: **A2** REVISION: **5**

P11NS007

KEY NOTES:

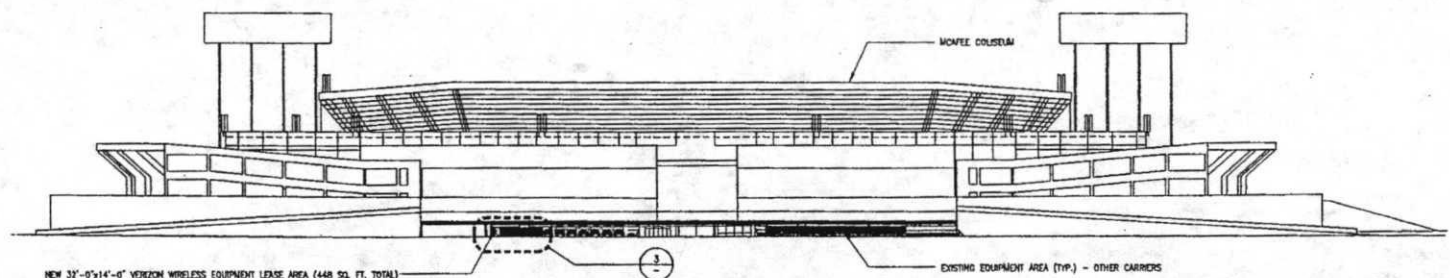
- 1 NEW VERIZON WIRELESS 22'-0"X14'-0" EQUIPMENT SHELTER ENCLOSED WITHIN A 32'-0"X14'-0" LEASE AREA
- 2 NEW FIBER CABINET
- 3 NEW ACCESS DOOR
- 4 NEW COAX CABLE ENTRY PORT
- 5 NEW H-FRAME W/ OVERHEAD COVER
- 6 NEW VERIZON WIRELESS OPS ANTENNA (TYP. OF 4)
- 7 NEW HVAC UNITS (TYP.)
- 8 NEW MAIN GROUND BUS BAR
- 9 NEW TELCO BACKBOARD
- 10 NEW MISC. EQUIP. CABINET
- 11 NEW INTERSECT POWER DISTRIBUTION PANEL AND SURGE ARRESTOR
- 12 NEW BATTERY CABINET (TYP. OF 2)
- 13 NEW OVERHEAD CABLE LADDER (TYP.)
- 14 UNUSED
- 15 NEW MODELLER EQUIPMENT CABINET
- 16 LTE EQUIPMENT CABINET
- 17 NEW 6"X CONDUITS STUB-UP (TYP. OF 4)
- 18 NEW 8'-0" HIGH CHAIN LINK FENCE (TYP.)
- 19 NEW 3'-0" WIDE ACCESS GATE (TYP.)
- 20 NEW SITE SIGNS (TYP.)
- 21 NEW BUSSED OUTER W/ (3) DIS. CB. (2 FOR FUTURE) WITH SUB-METERS MOUNTED TO EXISTING WALL
- 22 EXISTING CURB (TYP.)
- 23 EXISTING BUILDING WALL (TYP.)
- 24 EXISTING HVAC WALL (TYP.)
- 25 EXISTING OUTLINE OF CONCRETE OVERHANG SLAB (TYP.)
- 26 NEW 150KVA STEP-DOWN TRANSFORMER MOUNTED TO EXISTING CONCRETE SLAB
- 27 NEW TELCO CABINET MOUNTED TO NEW H-FRAME
- 28 NEW 10'-0"X10'-0" UTILITY AREA WITHIN A CHAIN LINK FENCE ENCLOSURE - LOCATION OF NEW COMMON UTILITY EQUIPMENT
- 29 NEW FUSED DISCONNECT SWITCH

NOTES:
 1. SET NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.
 2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.



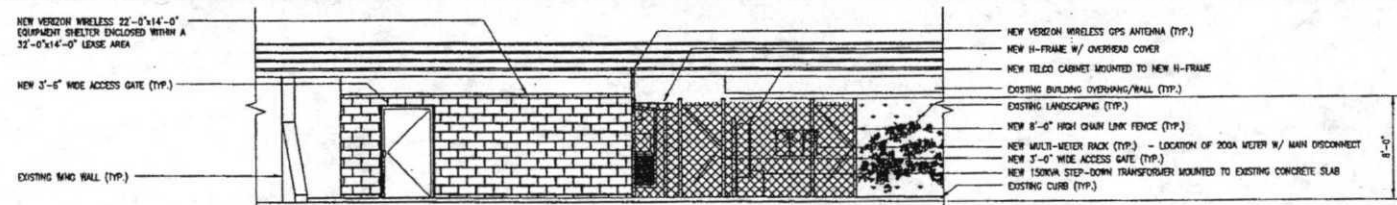
EQUIPMENT AREA PLAN

SCALE: 1/4" = 1'-0"
 1



SOUTHWEST ELEVATION

SCALE: 1" = 40'-0"
 2



ENLARGED SOUTHWEST ELEVATION

SCALE: 1/4" = 1'-0"
 3

2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

PROJECT INFORMATION:
OAKLAND COLISEUM
 250504
 7000 COUSELUM WAY
 OAKLAND, CA 94621
 ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV. DATE: DESCRIPTION: BY:

DATE	DESCRIPTION	BY
07/31/13	CD (DESIGN CHANGE)	JL
07/29/13	CD (DESIGN CHANGE)	JL
06/24/13	CD (ISSUE)	JL
06/20/13	CD (ISSUE)	JL
11/11/11	CD (ISSUE)	JL

PLANS PREPARED BY:

DELTA GROUPS ENGINEERING, INC.
 CONSULTING ENGINEERS

3035 WEST LAG HOSPITAL, SUITE 403
 FOLSOM, CA 95688
 TEL: (916) 488-0118 FAX: (916) 488-0358

CONSULTANT:

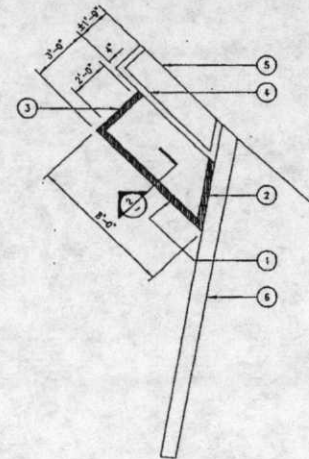
SEAL OF APPROVAL:

SHEET TITLE:
EQUIPMENT AREA PLAN, SOUTHWEST ELEVATION & ENLARGED SOUTHWEST ELEVATION

SHEET NUMBER: REVISION:
A3 5
 P11NS007

KEY NOTES:

- ① NEW METAL STUD WALL (CLARKWESTERN 400S200-43 OR EQUAL) @ 16" O.C.
- ② NEW OPENING FOR ANTENNA CABLES (CONTRACTOR VERIFY)
- ③ NEW 2'-0" WIDE ACCESS OPENING
- ④ EXISTING SOFFIT (TYP.)
- ⑤ EXISTING BUILDING WALL (TYP.)
- ⑥ EXISTING RING WALL (TYP.)



verizonwireless

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

OAKLAND COLISEUM
250584
7800 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV.	DATE	DESCRIPTION	BY
Δ	07/31/13	CD (DESIGN CHANGE)	JK
Δ	07/06/13	CD (DESIGN CHANGE)	JK
Δ	09/06/12	CD (LOGS)	JK
Δ	08/06/12	CD (LOGS)	JK
Δ	11/21/11	CD (LOGS)	JK

PLANS PREPARED BY:

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CONSULTING ENGINEERS
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CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:
NEW SOFFIT PLAN & DETAILS

SHEET NUMBER: **A3.2** REVISION: **5**
P11N5007

UNUSED

3 NEW SOFFIT PLAN

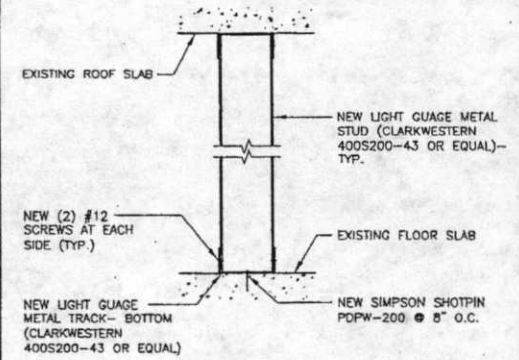
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1" = 0' 0" 1' 1"

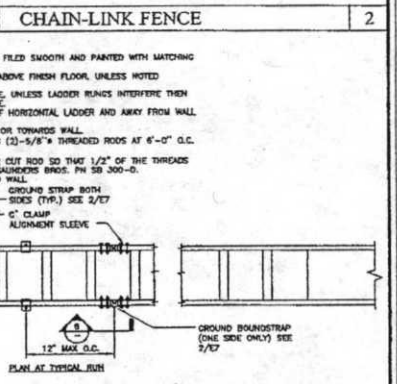
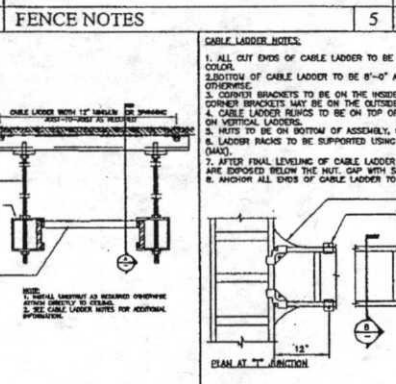
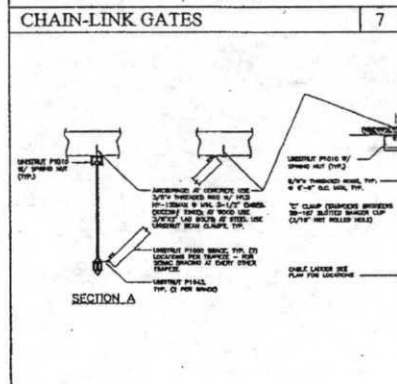
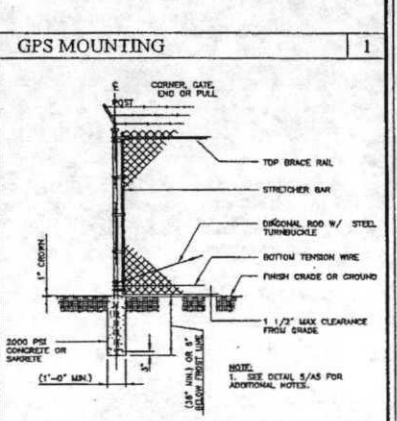
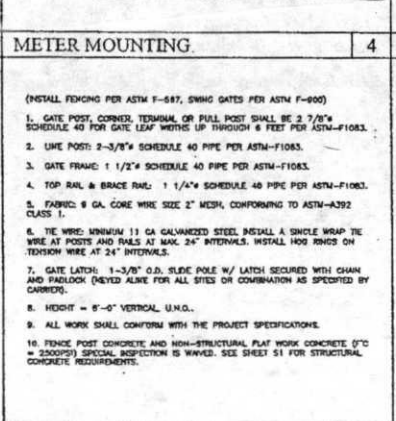
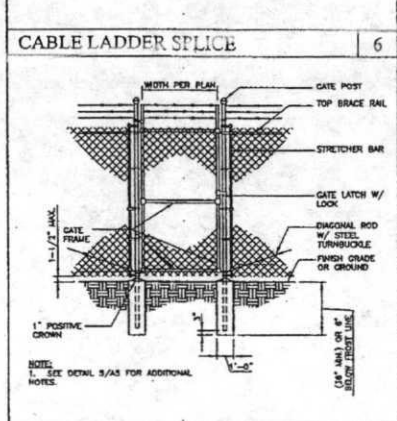
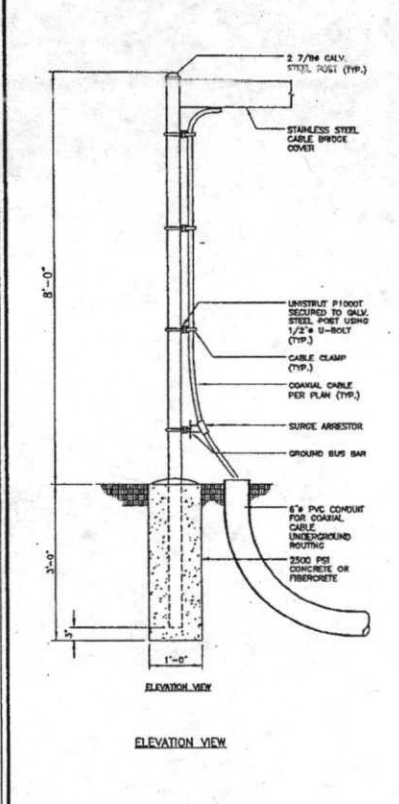
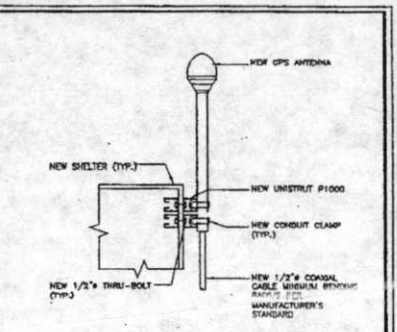
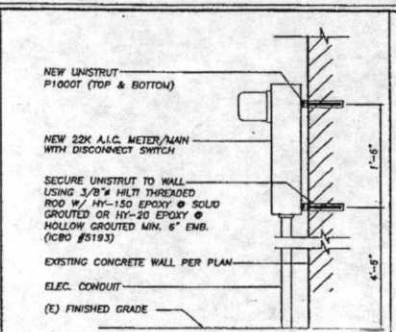
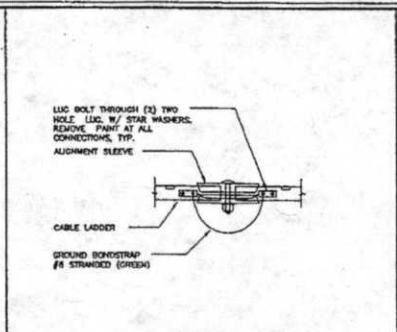
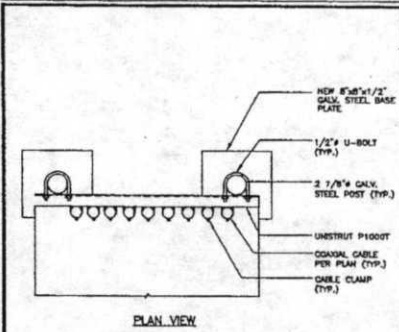
UNUSED

5 UNUSED

4 NEW WALL TO CONCRETE SLAB/ROOF

3





CABLE LADDER DETAIL 9

CABLE LADDER SECTION/SEISMIC BRACING DETAIL 8

CABLE LADDER 3

CHAIN-LINK GATES 7

verizonwireless

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLESIUM
250504
7000 COLESIUM WAY
ALAMEDA, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE: 07/31/13

ISSUED FOR: CD (DESIGN CHANGE)

REV.: DATE: DESCRIPTION: BY:

07/31/13	CD (DESIGN CHANGE)	JK
07/26/13	CD (DESIGN CHANGE)	JK
06/26/13	CD (100%)	JK
04/26/13	CD (100%)	JK
11/11/11	CD (100%)	JT

PLANS PREPARED BY:

DELTA GROUPS
ENGINEERING, INC.
CONSULTING ENGINEERS

3625 WEST LAS POSAS, SUITE 403
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TEL: (925) 488-0115 FAX: (925) 488-0335

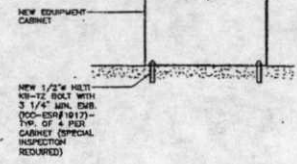
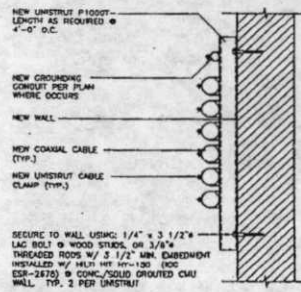
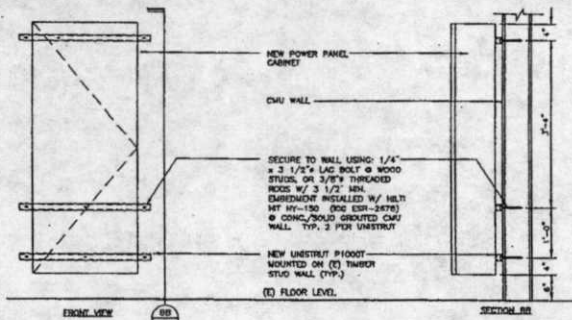
CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE: DETAILS

SHEET NUMBER: A4 REVISION: 5

P11NS007



verizon wireless

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COUSEUM
250504
7000 COLOSSIUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV#	DATE	DESCRIPTION	BY
1	07/31/13	CD (DESIGN CHANGE)	JR
2	07/26/13	CD (DESIGN CHANGE)	JR
3	06/26/12	CD (ISSUE)	JR
4	05/28/12	CD (ISSUE)	JR
5	11/21/11	CD (ISSUE)	JR

DELTA GROUPS ENGINEERING, INC.
CONSULTING ENGINEERS

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PLEASANTON, CA 94588
TEL: (925) 488-0155 FAX: (925) 488-0258

SEAL OF APPROVAL:

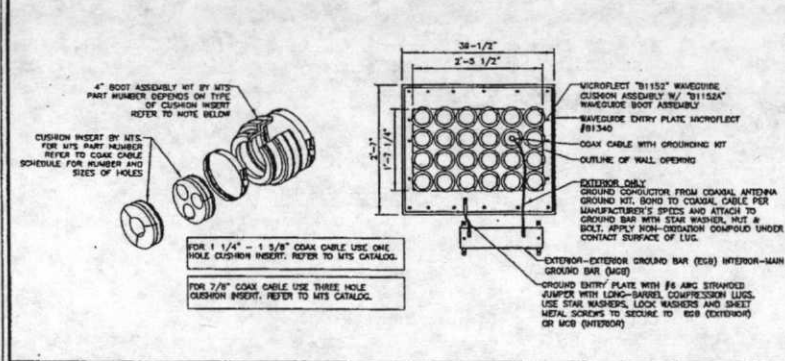
SHEET TITLE:

DETAILS

SHEET NUMBER: **A5** REVISION: **5**

P115007

UTILITES CABINET MOUNTING 6 **COAX CABLE @ WALL** 4 **EQUIPMENT ANCHORAGE** 1



NO ENTRY

verizon wireless

2785 MITCHELL DRIVE, WALNUT CREEK, CA 94598

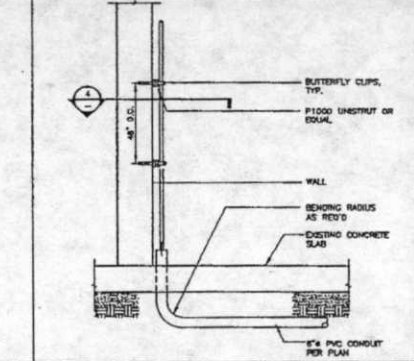
SITE ID# 15-XX-XXX

SITE NAME: COUSEUM DAS

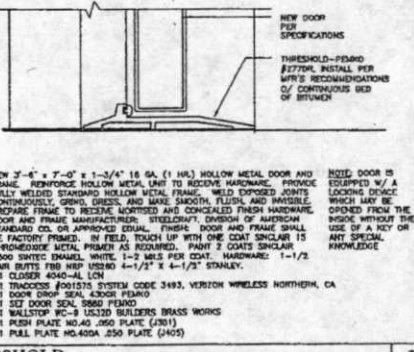
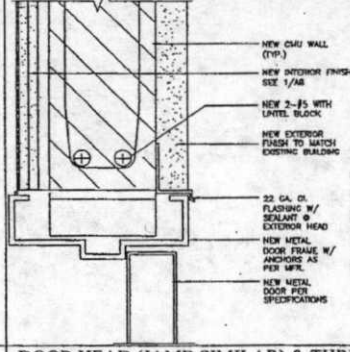
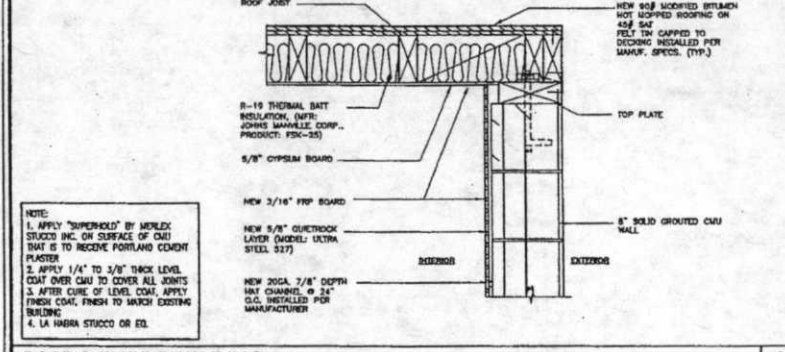
OAKLAND, CA 94621

FOR 24 HOUR EMERGENCY SERVICE CALL 1-800-264-6620

NOTE: MARKETING/D SIGN 24" WIDE X 18" HIGH



COAX ENTRY PORTS 7 **SITE IDENTIFICATION SIGN** 5 **CABLE STUB-UP** 2



ROOF & WALL DETAILING 8 **DOOR HEAD (JAMB SIMILAR) & THRESHOLD** 3

NOTE: 1. APPLY "SUPERPOD" BY MEXLEK STUCCO INC. ON SURFACE OF CMU THAT IS TO RECEIVE PORTLAND CEMENT PLASTER

2. APPLY 1/4" x 3/8" THICK LEVEL COAT OVER CMU TO COVER ALL JOINTS

3. AFTER CURE OF LEVEL COAT, APPLY FINISH COAT, FINISH TO MATCH EXISTING BUILDING

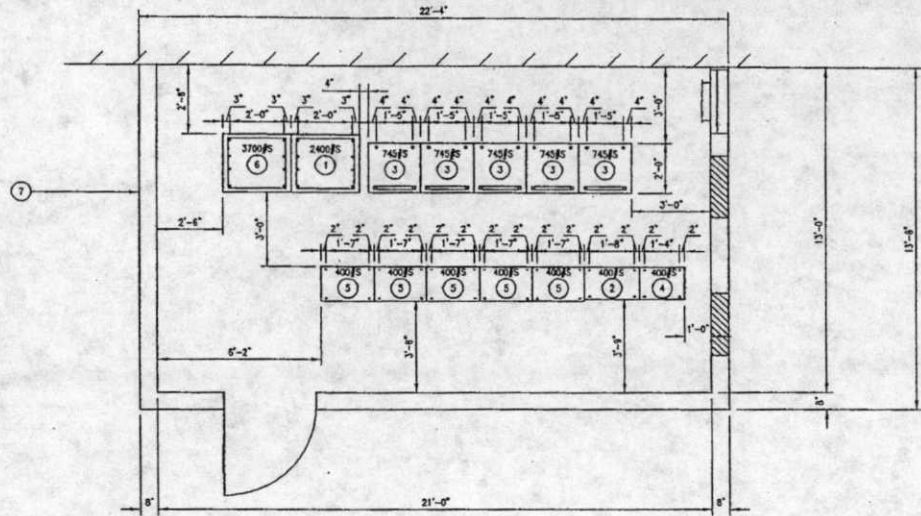
4. LA HABRA STUCCO OR EQ.

KEY NOTES:

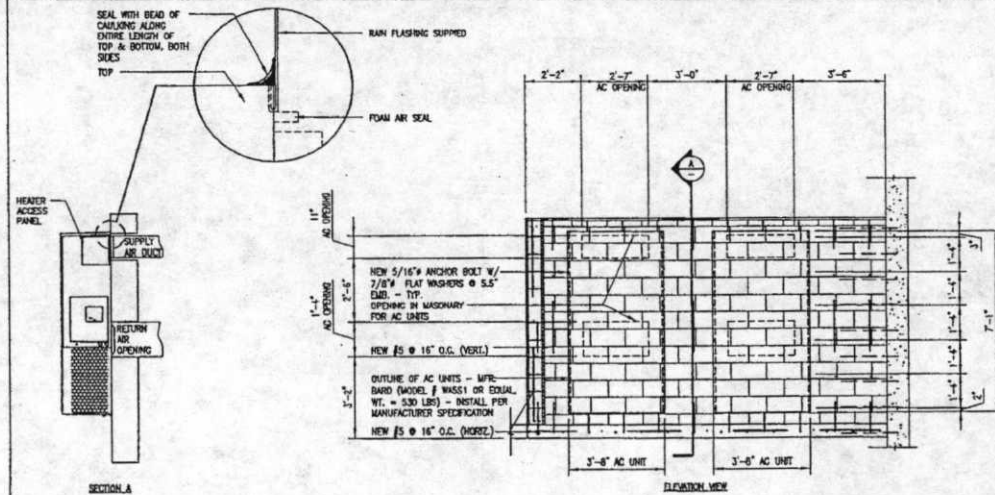
- ① NEW EMERSON METER FOR ON TOP OF 4X3 RACK (1/AS)
- ② NEW MISC. EQUIPMENT CABINET (1/AS) S.M.
- ③ NEW MACRO IP BITS CABINET (1/AS) S.M.
- ④ NEW FIBER CABINET (1/AS) S.M.
- ⑤ NEW LTE EQUIPMENT CABINET (1/AS) S.M.
- ⑥ NEW 4X8 BATTERY RACK WITH CONTAINMENT TRAY (1/AS) S.M.
- ⑦ NEW VERIZON WIRELESS 22'-4"x15'-0" EQUIPMENT SHELTER ENCLOSED WITHIN A 32'-0"x14'-0" LEASE AREA

EQUIPMENT WEIGHT AND DIMENSIONS

SYM	WIDTH	DEPTH	HEIGHT	WEIGHT
1	2'-2"	2'-0"	7'-0"	2450 LBS
2	2'-1"	1'-3"	7'-0"	400 LBS
3	2'-0"	2'-0"	8'-2"	745 LBS
4	1'-8 1/2"	1'-3"	7'-0"	400 LBS
5	2'-0"	1'-7"	4'-9"	400 LBS
6	2'-2"	2'-0"	7'-0"	3700 LBS



EQUIPMENT BOLT HOLE LOCATIONS



NOTES:
IT IS INTENDED THAT A BEAD OF SILICONE CAULKING BE PLACED BEHIND THE SIDE MOUNTING FLANGES AND UNDER TOP FLASHING AT TIME OF INSTALLATION.

verizon wireless
2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:
OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
07/31/13

ISSUED FOR:
CD (DESIGN CHANGE)

REV.	DATE	DESCRIPTION	BY
07/31/13	CD (DESIGN CHANGE)	JK	
07/26/13	CD (DESIGN CHANGE)	JK	
07/16/13	CD (ISSUE)	JK	
06/26/13	CD (ISSUE)	JK	
11/11/11	CD (ISSUE)	ZL	

PLANS PREPARED BY:
DELTA GROUPS ENGINEERING, INC.
CONSULTING ENGINEERS
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PLEASANTON, CA 94588
TEL: (925) 468-9113 FAX: (925) 468-0205

CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:
DETAILS

SHEET NUMBER: A6 **REVISION:** 5
P11NS007

UNUSED

3 HVAC MOUNTING

SCALE: 1 inch = 1 ft

STRUCTURAL NOTES

GENERAL NOTES

1. THE FOLLOWING NOTES, TYPICAL DETAILS AND SCHEDULES SHALL APPLY TO ALL DRAWINGS UNLESS OTHERWISE SHOWN OR NOTED. ALL CONSTRUCTION SHALL COMPLY WITH REQUIREMENTS OF THE CITY OF SANLEY BUILDING DEPARTMENT AND THE CALIFORNIA BUILDING CODE, 2007 EDITION.
2. THE CONTRACTOR SHALL VERIFY ALL GRADES, DIMENSIONS, FRAMING, FOUNDATION AND SITE CONDITIONS PRIOR TO THE STARTING WORK. ALL MAJOR DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO COMMENCING OR CONTINUING WITH WORK.
3. STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH ARCHITECTURAL, ELECTRICAL AND MECHANICAL DRAWINGS AND SPECIFICATIONS.
4. FRAMING CONDITION NOT SPECIFICALLY SHOWN SHALL BE FRAMED SIMILAR TO TYPICAL DETAILS AS SHOWN FOR SIMILAR CONDITIONS AND RESPECTIVE MATERIALS.
5. PROVIDE OPENINGS AND SUPPORTS AS REQUIRED FOR HEATER, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT, VENT DUCTS, PIPING, ETC. ALL SUSPENDED MECHANICAL EQUIPMENT TO BE PROVIDED WITH APPROVED SWAY OR LATERAL BRACING.

FOUNDATION AND FOOTINGS

1. MAXIMUM BEARING PRESSURE FOR DL + LL = 1,500 PSF @ 1'-0" MINIMUM INTO UNDISTURBED NATURAL SOILS.
2. COMPACT ALL FILLS AND BACKFILLS TO A MINIMUM OF 95% PERCENT OF MAXIMUM DRY DENSITY PER ASTM D-1557-07.
3. PROVIDE # 16 PVC MEMBRANE PLUS 2" SAND UNDER SLABS.
4. DURING ALL GRADING ACTIVITIES INCLUDING SITE PREPARATION, FOOTING EXCAVATION, SUBGRADE INSTALLATION AND PLACEMENT OF FILL SHALL BE OBSERVED AND ADVISED BY THE SOIL ENGINEER.
5. FOOTINGS SHOULD BE CLEANED OF ALL LOOSE SOIL, MOISTENED, FREE OF SPRINGING BACKS AND APPROVED BY THE SOIL ENGINEER OR PRIOR TO PLACING FORMS, STEEL OR CONCRETE.
6. ALL FILLS PLACED FOR ENGINEERING PURPOSE SHALL BE TESTED AND APPROVED BY THE SOIL ENGINEER.

CONCRETE AND REINFORCING STEEL

1. MINIMUM CONCRETE STRENGTH @ 28 DAYS AS FOLLOWS:
 - A.) WALL FOOTING 2,500 PSI
 - B.) SLAB ON GRADE 2,500 PSI
 - C.) GROUND BEAM 3,000 PSI
 - D.) CASSION AND PILE 3,000 PSI
2. PROVIDE LAP MIX DESIGN FOR ALL CONCRETE. SUBMIT TO ENGINEER / ARCHITECT FOR REVIEW PRIOR TO THE PLACING CONCRETE.
3. CEMENT PER ASTM C150-07, TYPE II (I.N.O.)
4. REINFORCING STEEL - INTERMEDIATE GRADE PER ASTM A615/A615M-07, GRADE 60 FOR #4 AND LARGER BARS. GRADE 80 FOR #5 AND LARGER BARS.
5. ALL CONCRETE TO BE REINFORCED AS INDICATED. ALL ANCHOR BOLTS, DOWNES AND OTHER CARRIED ITEMS TO BE SECURELY TIED IN PLACE BEFORE CONCRETE IS PLACED.
6. DIMENSIONS LOCATING REINFORCING BARS ARE TO FACE OF BARS AND DENOTES CLEAR COVERAGE TO MAIN STEEL. UNLESS OTHERWISE NOTED, CONCRETE COVERAGE SHALL BE AS FOLLOWS:
 - A.) CONCRETE AGAINST EARTH (NOT FORMED) 2"
 - B.) CONCRETE AGAINST EARTH (FORMED) 2"
7. MAXIMUM SLUPLAPS FOR:
 - A.) SLAB ON GRADE AND FILL OVER FLOOR 4" MAX
 - B.) ALL OTHER CONCRETE 5" MAX
8. NO BRICK OR POROUS MATERIALS SHALL SUPPORT STEEL. USE GROOVED CONCRETE BLOCK.
9. ALL SLABS ON GRADE TO BE REINFORCED WITH #4 @ 16" O.C. EACH WAY UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DEPRESSED AREAS, INTERLOCKS, CURBS.
10. ALL CONCRETE AND PLACEMENT OF REINFORCING STEEL FOR FOUNDATIONS TO BE CHECKED BY INSPECTOR PRIOR TO THE PLACING CONCRETE.

MASONRY

1. STANDARD CONCRETE BLOCK SHALL CONFORM TO ASTM C90-06, GRADE N-1 (STANDARD ST-1).
2. MINIMUM STRENGTH OF BLOCK (I.N.O.): 1 1/2" - 2,000 PSI (I.N.O.)
3. GROUT MIX: 1 PART CEMENT, 3 PARTS SAND, 2 PARTS PEA GRAVEL (1/8" MAX).
4. MORTAR MIX: 1 PART CEMENT, 1/4 PART LIME PUTTY, 3 1/2 PARTS DAMP LOOSE SAND.
5. SET AND BRACE VERTICAL REINFORCING BEFORE LAYING MASONRY UNITS.
6. LAP ALL REINFORCING BARS 48 DIAMETER @ SPLICES UNLESS OTHERWISE NOTED.
7. PROVIDE 1/2" CLEAR TO ALL REINFORCING STEEL. WALL STEEL SPLICES MAY BE TIED.

MASONRY (CONT'D)

8. GROUT ALL BLOCK MASONRY CELLS SOLID IN 6"-0" MAXIMUM LIFTS
 - a. CLEANOUT OPENINGS SHALL BE PROVIDED IN EVERY CELL AT THE BOTTOM OF EACH POUR OF GROUT
 - b. CLEANOUT OPENINGS NEED TO BE PROVIDED BY EVERY REINFORCED CELL AT THE BOTTOM OF EACH POUR GROUT, IF THE COURSE AT THE BOTTOM OF THE POUR IS CONSTRUCTED ENTIRELY OF INVERTED OPEN-END BOND BEAM UNITS.
 - c. THE FOUNDATION OR OTHER HORIZONTAL CONSTRUCTION JOINTS SHALL BE CLEANED OF ALL LOOSE MATERIAL AND MORTAR DROPPINGS BEFORE EACH POUR
 - d. THE CLEANOUTS SHALL BE SEALED BEFORE GROUTING
 - e. AN APPROVED ADMIXTURE THAT REDUCES EARLY WATER LOSS AND PRODUCES AN EXPANSIVE ACTION SHALL BE USED IN THE GROUT
9. PROVIDE 1/4" MINIMUM GROUT AROUND ALL ANCHOR BOLTS.
10. PROVIDE VERTICAL MASONRY CONTROL JOINTS AT 30 FT. O/C MAXIMUM.
11. REINFORCING STEEL:
 - A.) ASTM A615, GRADE 60 FOR #4 OR SMALLER BARS
 - B.) ASTM A615, GRADE 80 FOR #5 AND LARGER BARS
12. GROUT STRENGTH 1 1/2" = 2800 PSI MIN. @ 28 DAYS

SEISMIC DESIGN DATA

S ₈	S ₁	S _{0.5}	S _{0.1}	C _S	R	SDC	I _p
1.651g	0.605g	1.101g	0.605g	0.44g	2.5	D	1.0

WIND DESIGN DATA

WIND EXP. C
 SITE WIND SPEED: 85 MPH
 CALIF WALL DL = 78 PSF
 RF DEAD LOAD = 15 PSF
 RF LIVE LOAD = 20 PSF
 CLS DL = 8 PSF

EXTENSION ANCHORS FOR EQUIPMENT

ANCHOR	SIZE	EMBEDMENT	PULL TEST LOAD
CABINET	1/2" #	3-1/4"	480 LBS

RECESSIVE ANCHOR

ANCHOR	SIZE	EMBEDMENT	PULL TEST LOAD
1	3/8" #	3-1/2"	1240 LBS



2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLISEUM
250504
 7000 COLISEUM WAY
 OAKLAND, CA 94621
 ALAMEDA COUNTY

CURRENT ISSUE DATE:

07/31/13

ISSUED FOR:

CD (DESIGN CHANGE)

REV. DATE DESCRIPTION BY:

REV.	DATE	DESCRIPTION	BY
1	07/31/13	CD (DESIGN CHANGE)	JK
2	07/02/13	CD (DESIGN CHANGE)	JK
3	09/04/13	CD (100%)	JK
4	08/08/13	CD (100%)	JK
5	11/13/11	CD (100%)	JT

PLANS PREPARED BY:



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CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:

STRUCTURAL NOTES

SHEET NUMBER: REVISION:

S1 **5**
 P11NS007

verizonwireless
 2785 MITCHELL DRIVE, SUITE 9
 WALNUT CREEK, CA 94598

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250504
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REV.	DATE	DESCRIPTION	BY
1	07/31/13	CD (DOOR CHANGE)	JN
2	07/06/13	CD (DOOR CHANGE)	JN
3	06/06/12	CD (DOOR)	JN
4	06/06/12	CD (DOOR)	JN
5	11/11/11	CD (DOOR)	JT

PLANS PREPARED BY:

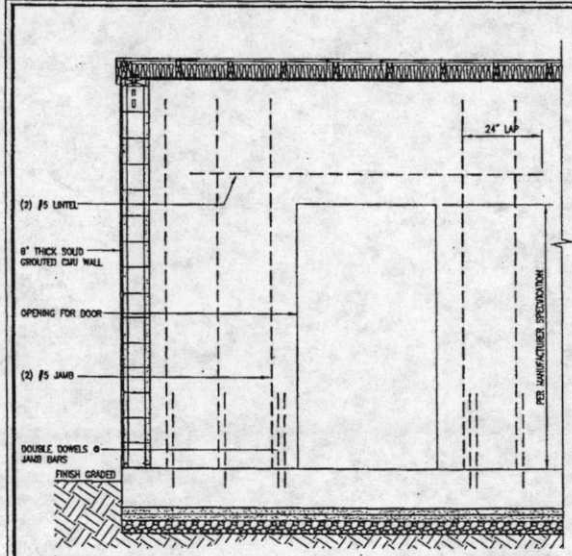
DELTA GROUPS
ENGINEERING, INC.
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 8405 WEST LAKE AVENUE, SUITE 400
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CONSULTANT:

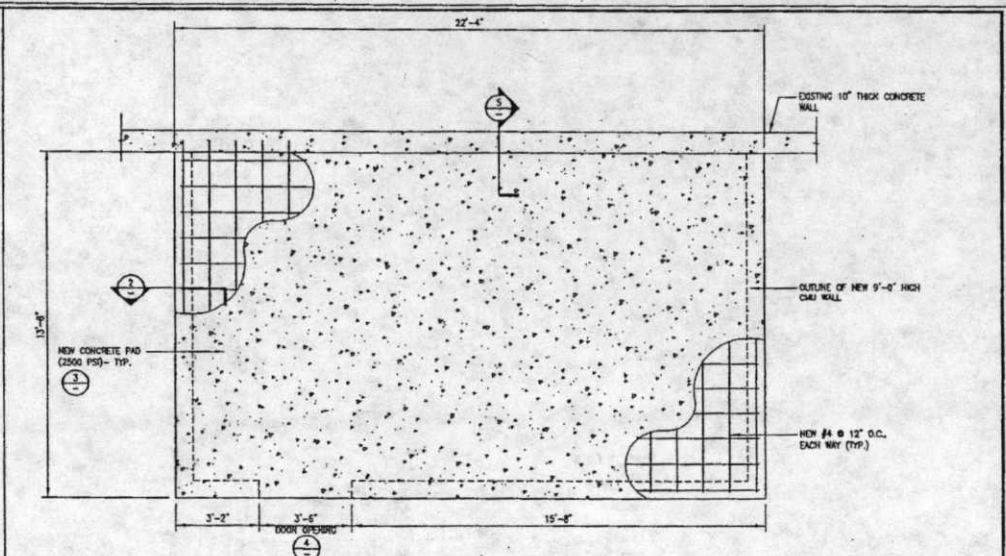
SEAL OF APPROVAL:

SHEET TITLE:
FOUNDATION PLAN & DETAILS

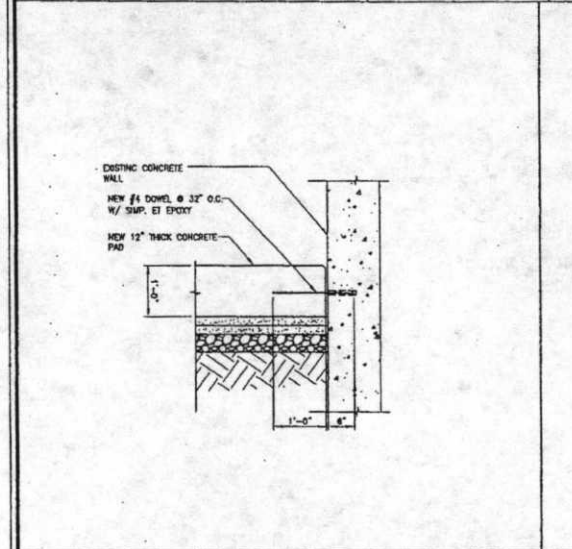
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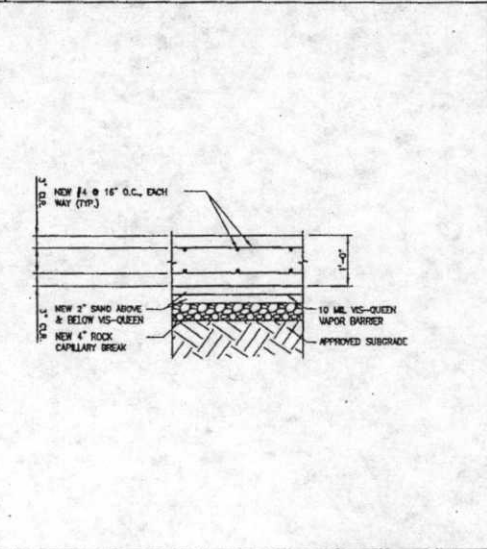
DOOR FRAMING DETAIL SCALE: 3/4 inch = 1 ft



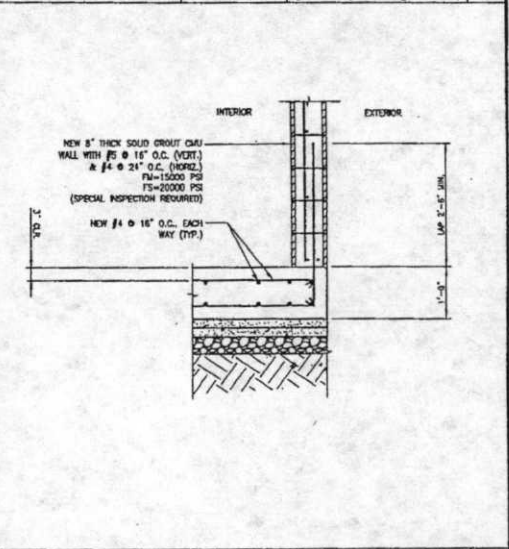
FOUNDATION PLAN SCALE: 1/2 inch = 1 ft



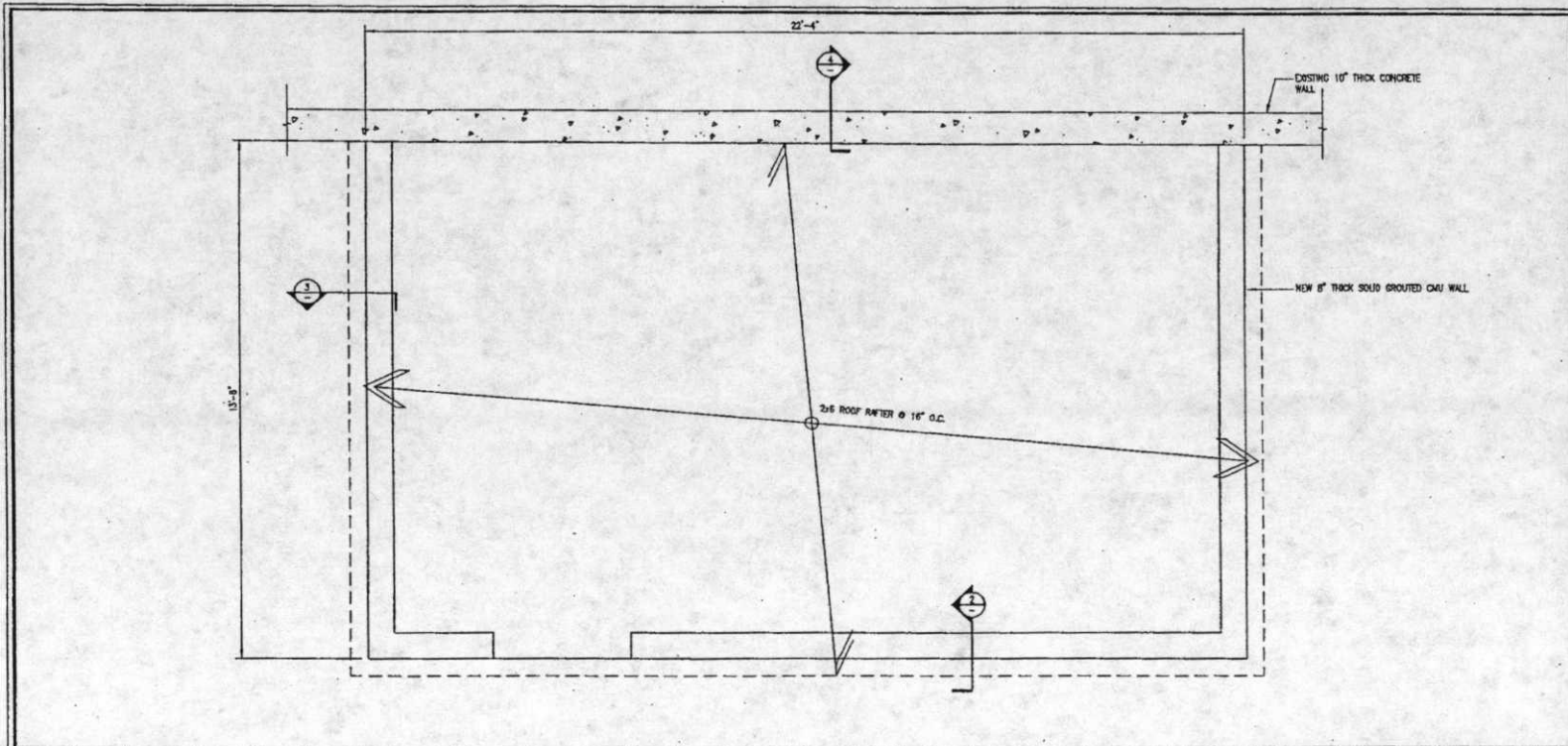
(N) PAD FTG. TO (E) FTG. SCALE: 1 inch = 1 ft



CONCRETE PAD DETAIL SCALE: 1 inch = 1 ft



EXTERIOR FOOTING SCALE: 1 inch = 1 ft



verizonwireless
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CURRENT ISSUE DATE:
07/31/13

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CD (DESIGN CHANGE)

REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
1	07/31/13	CD (DESIGN CHANGE)	JL
2	07/29/13	CD (DESIGN CHANGE)	JL
3	06/28/13	CD (ISSUE)	JL
4	06/29/12	CD (ISSUE)	JL
5	11/11/11	CD (ISSUE)	JL

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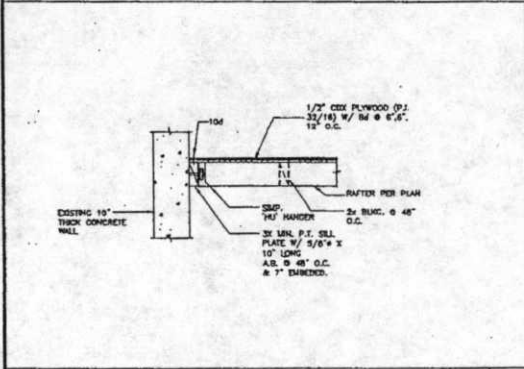
SHEET TITLE:

ROOF PLAN & DETAILS

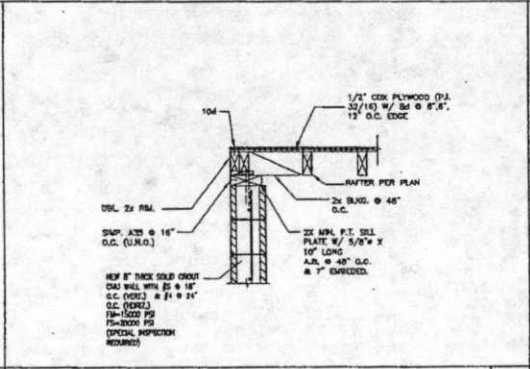
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 P11145007

ROOF PLAN

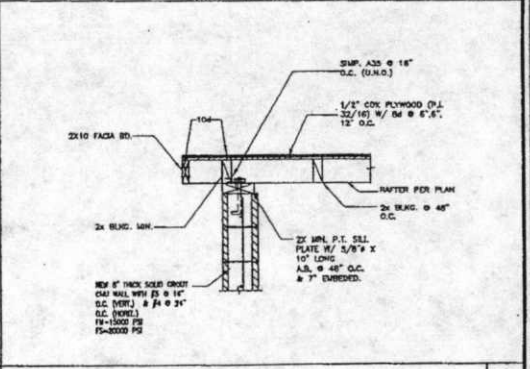
SCALE: 3/4" inch = 1'-0"



4 SHEAR TRANSFER AT WALL



3 SHEAR TRANSFER AT ROOF



2 SHEAR TRANSFER AT ROOF

1. ALL WORK AND MATERIAL SHALL BE IN COMPLETE COMPLIANCE WITH THE 2007 EDITION OF THE C.E.C. AND ALL REGULATIONS, LAWS, SAFETY ORDERS, ORDINANCES OR CODES. IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL.

2. THE SEISMIC BRACING AND ANCHORAGE OF ELECTRICAL CONDUITS AND WIREWAYS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA BUILDING CODE, CHAPTER 23 AND "GUIDELINES FOR SEISMIC RESTRAINTS OF MECHANICAL SYSTEMS AND PLUMBING PIPING SYSTEMS," PUBLISHED BY SCAUNA AND PINE, OR THE SUPERSTRUCTURE-SEISMIC RESTRAINTS SYSTEM, OR THE RM-LINE SEISMIC RESTRAINT SYSTEM.

3. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITERS LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE (UL) DOES NOT HAVE LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING CODES AND REGULATIONS:

- AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- AMERICAN STANDARD ASSOCIATION (ASA)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- NATIONAL ELECTRICAL CODE (NEC)
- CALIFORNIA CODE OF REGULATIONS TITLE 24 (CCR)
- INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
- ALL LOCAL CODES HAVING JURISDICTION

4. THE CONTRACTOR SHALL VISIT THE SITE, INCLUDING ALL AREAS INDICATED ON DRAWINGS AND SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS AS WELL AS THE ELECTRICAL AND GROUNDING REQUIREMENTS OF THIS PROJECT. BY SUBMITTING A BID, HE ACCEPTS THE CONDITIONS UNDER WHICH HE SHALL BE REQUIRED TO PERFORM HIS WORK.

5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN A COMPLETE SET OF CONTRACT DOCUMENTS, ADDENDA, DRAWINGS AND SPECIFICATIONS AS WELL AS THE LATEST EDITION OF ANY DESIGN SPECIFICATIONS. HE SHALL CHECK THE DRAWINGS OF THE OTHER TRADES AND SHALL CAREFULLY READ THE ENTIRE SPECIFICATIONS AND DETERMINE HIS RESPONSIBILITIES. FAILURE TO DO SO SHALL NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF DOING THE WORK IN COMPLETE ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS.

6. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY RECORDINGS, SURVEYS OR COMPUTATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER AND THE ARCHITECT PRIOR TO BEING USED IN PREPARING A BID. ANY SUCH CHANGES NOT CLEARLY PRIOR TO BID SHALL SUBJECT TO THE INTERPRETATION OF THE PROJECT MANAGER AT HIS ADDITIONAL COST.

7. THE CONTRACTOR SHALL OBTAIN AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE PROJECT MANAGER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON BY THE CONTRACTOR WITH RED INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER.

8. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE PROJECT MANAGER AND THE PROPERTY OWNER 14 DAYS PRIOR TO THE OUTAGE. ANY OVERTIME FEE SHALL BE INCLUDED IN THE CONTRACTOR'S BID. WORK IN EXISTING SHEDS OR PANELBOARDS SHALL BE COORDINATED WITH THE PROJECT MANAGER AND THE BUILDING OWNER PRIOR TO REMOVING ACCESS PANELS OR DOORS.

9. SHOP DRAWINGS SHALL BE SUBMITTED FOR ITEMS INDICATED ON PLANS. SHOP DRAWINGS SHALL INCLUDE ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS AND MANUFACTURER'S BROCHURES.

10. AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE PROJECT MANAGER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE SUFFICIENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY NEW OR SYSTEM TO THE FULL SATISFACTION OF THOSE REPRESENTATIVES. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE PROJECT MANAGER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

11. THE CONTRACTOR SHALL FURNISH ONE YEAR WRITTEN GUARANTEE OF MATERIALS AND WORKMANSHIP FROM THE DATE OF SUBSTANTIAL COMPLETION.

12. COORDINATE WITH OTHER TRADES AS TO THE EXACT LOCATION OF THEIR RESPECTIVE EQUIPMENT. SUPPLY POWER AND MAKE CONNECTION TO EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS. REVIEW THE DRAWINGS OF OTHER TRADES AND LOCATION OF EQUIPMENT.

13. EXACT METHOD AND LOCATION OF CONDUIT PENETRATIONS AND OPENINGS IN CONCRETE WALLS OR FLOORS OR STRUCTURAL STEEL MEMBERS SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER. PROVISIONS FOR SUBMITTING, PATCHING, AND RESTORING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY TO PENETRATE, OPENINGS SHALL BE SEALED IN AN APPROVED METHOD TO MATCH THE FINE FINISH OF THE PARTICULAR WALL, FLOOR OR CEILING.

14. VENT PENETRATIONS OF ANY KIND IN FIRE AND SMOKE PARTITIONS AND CEILING ASSEMBLIES, SHALL BE PRESTOPPED AND SEALED WITH AN APPROVED MATERIAL, SECURELY INSTALLED.

15. CONNECTIONS TO VIBRATING EQUIPMENT AND SEISMIC SEPARATORS: LIQUID-TIGHT FLEXIBLE STEEL CONDUIT IN DRY INTERIOR LOCATIONS AND IN AREAS EXPOSED TO WEATHER, DAMP LOCATIONS, CONNECTIONS TO TRANSFORMER ENCLOSURES, AND FINAL CONNECTIONS TO MOTORS. PROVIDE A SEPARATE INSULATED GROUNDING CONDUCTOR IN FLEXIBLE CONDUIT RUNS. MAXIMUM LENGTH SHALL BE SIX FEET UNLESS OTHERWISE NOTED.

16. ROUTE EXPOSED AND CONCEALED CONDUIT PARALLEL AND PERPENDICULAR TO WALL AND ADJACENT PIPING. ARRANGE CONDUIT TO MAINTAIN HEADROOM AND TO PRESENT A NEAT APPEARANCE.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SPLICING, TRENCHING, BACKFILLING, COMPACTING AND PATCHING OF CONCRETE AND ASPHALT AS REQUIRED TO PERFORM HIS WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION AND COORDINATION WITH ALL PROPERTY OWNERS, UTILITIES, AND APPROPRIATE "DIAL AHEAD" UNDERGROUND MARKING AGENCIES AND COMPANIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF HIS WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED DURING THE COURSE OF HIS WORK.

18. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), APPEARS ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY STRICT CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE PROJECT MANAGER AND THE ARCHITECT/ENGINEER.

19. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT WEATHER PROOF PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE RUN TO 100 FEET. PULL BOXES SHALL BE SIZED PER CODE FOR THE LARGEST SIZE OF THE DESIGN SPECIFICATIONS, HOWEVER, IF MOST RESTRICTIVE, LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

20. MAXIMUM NUMBER OF CONDUCTORS IN OUTLET SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

21. IDENTIFICATION NAME PLATES SHALL BE LOCATED 1/8" MIN THICK AND OF APPROVED SIZE WITH BEVELLED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4" HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROMINENT ALL CIRCUITS IN THE SERVICE DISTRIBUTION AND POWER DISTRIBUTION SWITCH BOARDS OR PANEL BOARDS, DISCONNECTING SWITCHES, TRANSFORMERS, TERMINAL CABINETS, TELEPHONE CONDUITS, ETC. ALL NAMEPLATES SHALL BE ATTACHED WITH SCREWS. PULL BOXES, JUNCTION BOXES, AND DEVICE BOXES SHALL BE MARKED WITH A PERMANENT MARKER.

22. THE EXACT LOCATION OF ALL ELECTRICAL DEVICES AND EQUIPMENT SHALL BE COORDINATED WITH THE PLANS AND DETAILS, PRIOR TO INSTALLATION.

23. DRAWINGS ARE DIAGNOSTIC ONLY. ROUTING OF RACKETS SHALL BE AT THE OPTION OF THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL OR MECHANICAL ITEMS OR FEATURES.

24. RIGID GALVANIZED STEEL CONDUIT SHALL BE FULL HEIGHT THREADED TYPE. ELECTRICAL METALLIC TUBING (EMT) MAY BE USED IN WALLS OR CEILING SPACES WHERE NOT SUBJECT TO MECHANICAL DAMAGE. DIRECT BURIED PVC SCHEDULE 40 MAY BE INSTALLED BENEATH SLAB OR BELOW GRADE AND SHALL BE CONCRETE ENCASED UNLESS NOTED OTHERWISE. AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL CONDUIT RUNS. PROVIDE CONDUIT SUPPORTS NOT TO EXCEED 8'-0". PROVIDE 3-PC CONNECTORS FOR SECONDARY GROUNDING PATH OF SURFACE MOUNTED EMS.

25. RIGID STEEL CONDUIT FITTINGS INCLUDING COUPLERS, LOCKOUTS, NIPPLES, ETC. SHALL BE THREADED AND THOROUGHLY GALVANIZED EXCEPT WHERE AN ADAPTER IS NEEDED TO CONNECT TO PVC. ELECTRICAL METALLIC TUBING (EMT) CONDUIT FITTINGS SHALL BE STEEL, FLAMING THREADLESS COMPRESSION TYPE. DIE CAST, SET SCREW, OR INDENTED TYPES ARE NOT ACCEPTABLE. SET SCREW TYPE IS NOT ACCEPTABLE.

26. ALL TELCO CONDUIT INSTALLATIONS AND OTHER EMPTY CONDUIT RUNS AND STUBS SHALL INCLUDE A YELLOW 3/8" POLYPROPYLENE PULL STRING.

27. ALL CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM SIZE, TYPE THIN/THIN THERMOPLASTIC, 900 VOLT, 75 DEGREE CELSIUS (165 AND 90 DEGREE CELSIUS DRY AND W. LISTED UNLESS NOTED OTHERWISE. CONDUCTORS #10 AWG AND SMALLER SHALL BE SOLID. CONDUCTORS #6 AWG AND LARGER SHALL BE STRANDED UNLESS SPECIFICALLY NOTED TO THE CONTRARY. ALL WIRE CONNECTORS SHALL BE CROW COMPRESSION TYPE BY "THOMAS AND BUST" OR APPROVED EQUIVALENT, INSTALLED AND INSULATED FOR THE MANUFACTURER'S RECOMMENDATIONS. ALL WIRE ENDS SHALL BE MARKED FOR EASY IDENTIFICATION AND TRACING.

28. JUNCTION AND PULL BOXES: FOR INTERIOR DRY LOCATIONS, BOXES SHALL BE GALVANIZED ONE-PIECE, DRAIN STEEL, KNOCKOUT TYPE WITH REMOVABLE MACHINE SCREW SECURED COVERS. FOR OUTSIDE, DAMP, OR SURFACE LOCATIONS, BOXES SHALL BE HEAVY CAST ALUMINUM OR CAST IRON WITH REMOVABLE, GASKETS, NON-FERROUS MACHINE SCREW SECURED COVERS. BOXES SHALL BE SIZED FOR THE NUMBER AND SIZES OF CONDUCTORS AND CONDUIT ENTERING THE BOX AND LABELLED TO INDICATE PANEL AND CIRCUIT NUMBER, OR TYPE OF SIGNAL OR COMMUNICATIONS SYSTEM.

29. ALL OUTDOOR ELECTRICAL DEVICES OR EQUIPMENT SHALL BE OF WEATHERPROOF TYPE.

30. ALL EQUIPMENT, MONOPOLE, FRAME, CABLE TRAY AND ANTENNA GROUND WIRE CONNECTIONS TO GROUND BUSSES SHALL BE MADE WITH COPPER TYPE COMPRESSION CONNECTIONS TO CONNECTORS (MINIMUM 2 HOLE LUGS WITH FULL BOLTING). BUSS SHALL BE PRE-DRILLED TO ACCOMMODATE ALL CONNECTIONS.

31. ALL GROUNDING SHALL BE PER C.E.C. SECTION 250 AND 810 AND THE GROUNDING REQUIREMENTS OF THESE DRAWINGS.

32. ALL GROUND WIRE CONNECTIONS BETWEEN GROUND BUSES AND OTHER GROUND BUSES AND GROUND RODS SHALL BE CAMELWELD.

33. ALL METALLIC GROUND WIRE CONDUIT SHALL BE GROUNDED TO THE GROUND WIRE USING SET SCREW CONNECTIONS AT CONDUIT END CAPS AND CROWP CONNECTIONS AT WIRE.

34. COAT ALL BOLTED LUG & BUSS GROUND CONTACT SURFACES WITH WSP-300, MO-OL, OR EQUAL PRIOR TO ATTACHMENT.

35. MAIN CIRCUIT BREAKER SHALL BE RATED FOR STANDARD A.I.C. RATING HIGHER THAN RATING FROM UTILITY COMPANY.

36. ALL EQUIPMENT SHALL BE U.L. LISTED.

37. ALL EQUIPMENT SHALL BE GRADED FOR STANDARD A.I.C. RATING HIGHER THAN RATING FROM UTILITY COMPANY.

38. ALL CORING CLEARANCES SHALL BE FIELD VERIFIED AND ALL CONDUIT ROUTING SHALL BE COORDINATED WITH PROPERTY OWNERS REPRESENTATIVE.

39. ALL CONNECTIONS TO EXISTING MAIN SWITCHGEAR INCLUDING "BUS-WAYS" AND/OR "1ST-3P" SHALL REQUIRE CERTIFICATION AND APPROVAL. FABRICATION AND CERTIFICATION SHALL BE FURNISHED BY A CONTRACTOR APPROVED BY THE APPLICABLE UTILITY.

40. CONTRACTOR SHALL COORDINATE WORK WITH UTILITY COMPANIES FOR FINAL AND EXACT WORK AND MATERIAL REQUIREMENTS, CONSTRUCT TO UTILITY COMPANIES ENGINEERING PLANS AND SPECIFICATIONS ONLY.

41. ALL BROCHURES, OPERATION MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE PROJECT MANAGER AT THE COMPLETION OF WORK.

42. SWITCHES AND RECEPTACLES AS SPECIFIED ON FLOOR PLANS.

NOTE:
REFER TO "CODE COMPLIANCE" SECTION ON SHEET T1 FOR THE LIST OF GOVERNING CODES AND STANDARDS.

1. THE CONTRACTOR SHALL VERIFY AND COORDINATE THE POINT OF CONNECTION, CONDUIT ROUTE, INSTALLATION DETAILS AND SPECIFIC PROJECT PARAMETERS WITH THE LOCAL TELEPHONE COMPANY. SCHEDULE POINT OF CONTACT (SPOC) PRIOR TO BEGINNING ANY WORK IN THE FIELD.

2. THE PROJECT ADDRESS AND ANY SPECIFIC UNIT NUMBER MUST BE PROVIDED TO THE LOCAL TELEPHONE COMPANY SPOC MINIMUM 1 WEEK PRIOR TO FINAL INSPECTION TO AVOID DELAY IN INSTALLATION OF SERVICE.

3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CONDUIT AND FACILITIES AS SHOWN AND DETAILED ON THE PLANS AS REQUIRED FOR T1 SERVICE AND A SINGLE POTS LINE TO THE BTS FACILITY.

4. THE TELEPHONE TERMINAL BACKBOARD SHALL BE 30"x48"-0"x6/8" THICK FIBRE REINFORCED POLYMER SHANKED AND FINISHED WITH FIRE RATED PANEL. MOUNT BACKBOARDS BOTTOM AT 4" A.F.F., PROVIDE MINIMUM 12" CLEARANCE FROM POWER ON THE SAME WALL AND 42" MINIMUM CLEARANCE FROM ADJACENT OR OPPOSITE WALLS. VERIFY WIDTH.

5. CONDUIT SPECIFICATIONS SHALL BE AS FOLLOWS:

a. GENERAL: ALL TELEPHONE SERVICE CONDUIT SHALL RUN FROM POLE, VAULT, FULL-BOX, MANHOLE OR OTHER POINT OF CONNECTION ESTABLISHED BY THE LOCAL TELEPHONE COMPANY SPOC AND SHALL RUN CONTINUOUS TO AN EDGE OF THE TELEPHONE TERMINAL BACKBOARD.

b. UNDERGROUND CONDUIT AND RINGS SHALL BE MINIMUM 4" DIAMETER SCHEDULE 40 PVC. TRENCH DEPTH SHALL PROVIDE FOR MINIMUM 24" COVER OVER CONDUIT CONDUIT RUN SHALL BE NO MORE THAN 200 FEET IN LENGTH OR HAVE NO MORE THAN (2) 90 DEGREE (OR EQUIVALENT) BETWEEN PULL BOXES.

c. ABOVE GROUND CONDUIT AND CONDUIT INSIDE BUILDINGS SHALL BE EMT WITH FITTINGS AS NOTED IN ELECTRICAL NOTES. PROVIDE A UL APPROVED 18" HIGH x 18" DEEP WEATHER RESISTANT RAIN OR SNOW PULL BOX ON ALL ABOVE GRADE CONDUIT RUNS AT INTERVALS NOT TO EXCEED 100 FEET OR (2) 90 DEGREE (OR EQUIVALENT).

4. OVERHEAD EXTERIOR FEEDS SHALL BE 4" DIAMETER RIGID GALVANIZED CONDUIT WITH A WEATHERHEAD OF A TYPE AND AT A HEIGHT APPROVED BY LOCAL TELEPHONE COMPANY SPOC (MINIMUM 20 FEET ABOVE FINISHED GRADE).

6. A 1-1/4" DIAMETER ORANGE INTER-DUCT SHALL BE PROVIDED IN ALL TELEPHONE SERVICE CONDUIT.

7. A MINIMUM 3/8" YELLOW POLYPROPYLENE PULL ROPE SHALL BE INCLUDED IN EVERY INTER-DUCT WITH A SEPARATE 3/8" YELLOW POLYPROPYLENE PULL ROPE INSIDE THE CONDUIT, NOT INSIDE THE INTER-DUCT.

8. THE ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABILITY OR SHALL PROVIDE A NEW 120V POWER SOURCE MINIMUM 12" FROM TELEPHONE TERMINAL BACKBOARD.

9. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A #6 SOLID INSULATED COPPER GROUND WIRE FROM A GROUND SOURCE APPROVED BY THE LOCAL TELEPHONE COMPANY SPOC. MINIMUM STANDARD SOURCE SHALL BE A 5/8" DIAMETER x 8'-0" LONG COPPER CLAD STEEL GROUND ROD.

10. ALL WIRING SHALL BE DONE BY THE LOCAL TELEPHONE COMPANY UNLESS OTHERWISE NOTED.

11. ALL TELEPHONE CONDUIT SHALL BE LABELED AT DESIGNATED TELEPHONE COMPANY.

TELEPHONE SPECIFICATIONS 1

1. UTILITY POINTS OF SERVICE AND WORK / MATERIALS SHOWN ARE BASED UPON PRELIMINARY INFORMATION PROVIDED BY THE UTILITY COMPANIES AND ARE FOR BID PROPOSED ONLY.

2. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY FOR FINAL AND EXACT WORK / MATERIALS REQUIREMENTS AND CONSTRUCT TO UTILITY COMPANY ENGINEERING PLANS AND SPECIFICATIONS ONLY. CONTRACTOR SHALL FURNISH AND INSTALL ALL CONDUIT, PULL ROPES, CABLES, PULL BOXES, CONCRETE ENCASEMENT OF CONDUIT (IF REQUIRED), TRANSFORMER PAD, BARRIERS, POLE FEEDS, TRENCHING, BACKFILL, PAY ALL UTILITY COMPANY FEES AND INCLUDE ALL REQUIREMENTS IN SCOPE OF WORK.

3. UTILITY CONTACTS FOR THIS PROJECT SHALL BE AS FOLLOWS:

- POWER/TELCO:
- NSA WIRELESS
- 2000 CROW CANYON PLACE,
- STE. 400, SAN RAMON, CA 94583
- CONTACT: ROGER SHARP
- PHONE: (925) 244-1890



OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:
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REV#	DATE	DESCRIPTION	BY
1	07/31/13	CD DESIGN CHANGE	JM
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3	08/06/13	CD (ISSUE)	JM
4	08/06/13	CD (ISSUE)	JM
5	11/11/11	CD (ISSUE)	JM

PLANS PREPARED BY:
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TEL: (925) 488-0110 FAX: (925) 488-0220

CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:

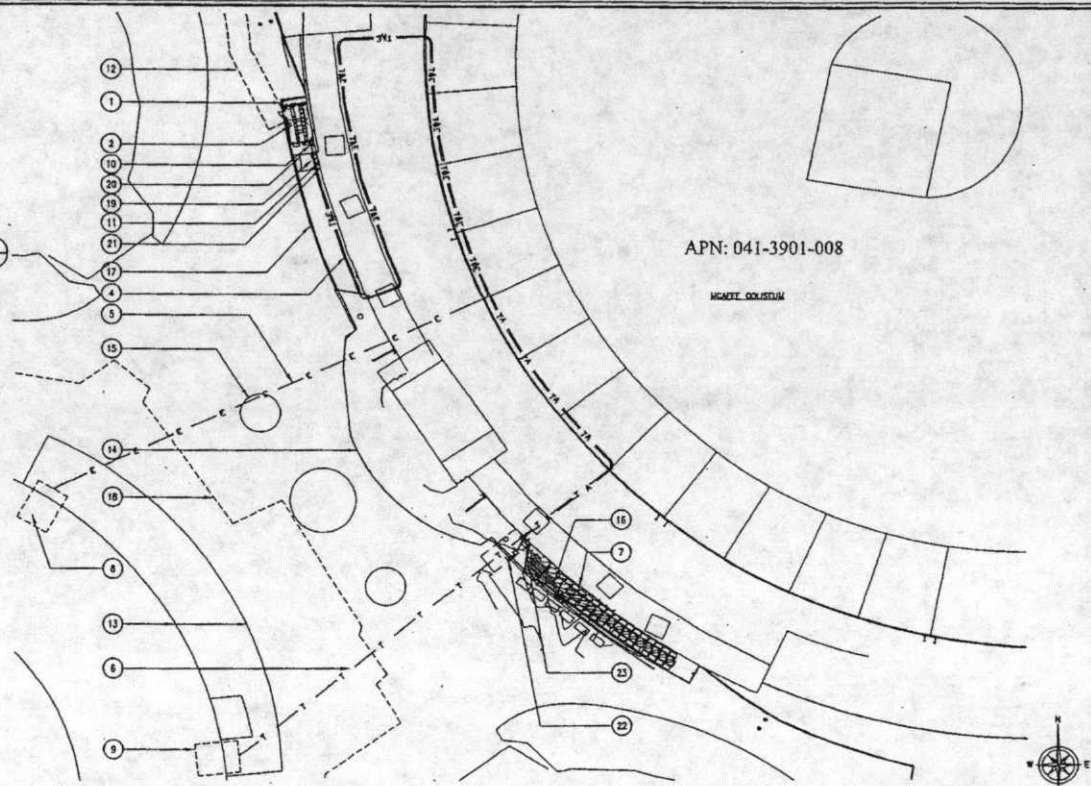
ELECTRICAL & TELEPHONE SPECIFICATIONS AND UTILITIES NOTES

SHEET NUMBER: REVISION:

E1 5
P11NS007

KEY NOTES:

- 1 NEW VERIZON WIRELESS 22'-0"x14'-0" CUSTOM BUILT EQUIPMENT SHELTER LOCATED AT MAIN CONCRETE FLOOR LEVEL ENCLOSED WITHIN A 32'-0"x14'-0" LEASE AREA
- 2 OUTLINE OF EXISTING LANDSCAPING TO BE REMOVED
- 3 NEW 5'-0" WIDE VERIZON WIRELESS ACCESS EASEMENT OVER EXISTING ACCESS ROAD (APPROX. 20 L.F. COLISEUM WAY TO EQUIPMENT AREA)
- 4 NEW COAX CABLE OVERHEAD ROUTING ALONG FLOOR LEVEL 06 CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 800 L.F. FROM EQUIPMENT SHELTER TO AT&T EQUIPMENT AREA) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 5 NEW POWER OVERHEAD ROUTING ALONG FLOOR LEVEL 03 CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 800 L.F. FROM POWER P.O.C. TO 200A METER AT METER RACK # 42 L.F. FROM 200A METER TO EQUIPMENT SHELTER PPC) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 6 NEW TELCO OVERHEAD ROUTING ALONG FLOOR LEVEL 03 CEILING WITHIN A 5'-0" WIDE VERIZON WIRELESS UTILITY EASEMENT (APPROX 900 L.F. FROM TELCO P.O.C. TO EQUIPMENT SHELTER) - ACTUAL ROUTE TO BE VERIFIED IN THE FIELD AND COORDINATED WITH LANDLORD
- 7 NEW COAX CABLE ROUTING ALONG EXISTING WALL (APPROX 80 L.F. FROM CONDUITS STUB-UP TO AT&T EQUIPMENT CABINET)
- 8 EXISTING ELECTRICAL ROOM (POWER P.O.C.)
- 9 EXISTING TELCO ROOM (TELCO P.O.C.)
- 10 NEW H-FRAME W/ OVERHEAD COVER & (4) 6" CONDUITS STUB-UP
- 11 NEW BUSSSED GUTTER W/ (5) DIS. COB. (2 FOR FUTURE)
- 12 NEW 15'-0" WIDE VERIZON WIRELESS ACCESS EASEMENT OVER EXISTING ACCESS ROAD (SEE SHEET A1 FOR CONTINUATION)
- 13 EXISTING ACCESS ROAD (TYP.)
- 14 EXISTING STADIUM MAIN ACCESS (TYP.)
- 15 EXISTING LANDSCAPING DECOR (TYP.)
- 16 EXISTING AT&T EQUIPMENT AREA (TYP.)
- 17 EXISTING OVERHANG SLAB WITH LANDSCAPE AREA BELOW (TYP.)
- 18 EXISTING UNDERGROUND PARKING LOT (TYP.)
- 19 NEW 150KVA STEP-DOWN TRANSFORMER MOUNTED TO EXISTING CONCRETE SLAB
- 20 NEW TELCO CABINET MOUNTED TO NEW H-FRAME
- 21 NEW 10'-0"x10'-0" UTILITY AREA WITH A CHAIN LINK FENCE ENCLOSURE - LOCATION OF NEW COMMON UTILITY EQUIPMENT
- 22 NEW TELCO EQUIPMENT LOCATED AT LOTS B & C TUNNEL
- 23 LOCATION OF NEW SOFFIT (TYP.)

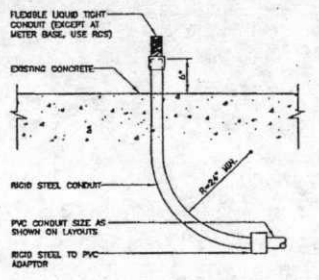


APN: 041-3901-008

HEART COLISEUM

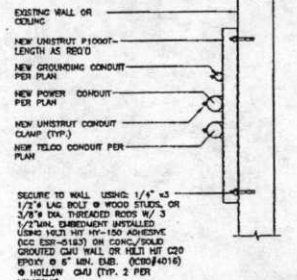
UTILITIES PLAN

SCALE: 1" = 30' R. 0 30 60 90 120



CONDUIT STUB-UP

SCALE: 1" = 1' R. 0 1 2 3



CONDUITS ROUTING

SCALE: 1" = 1' R. 0 1 2 3

NOTES:
 1. DO NOT SCALE DIMENSIONS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.
 2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.

verizon wireless
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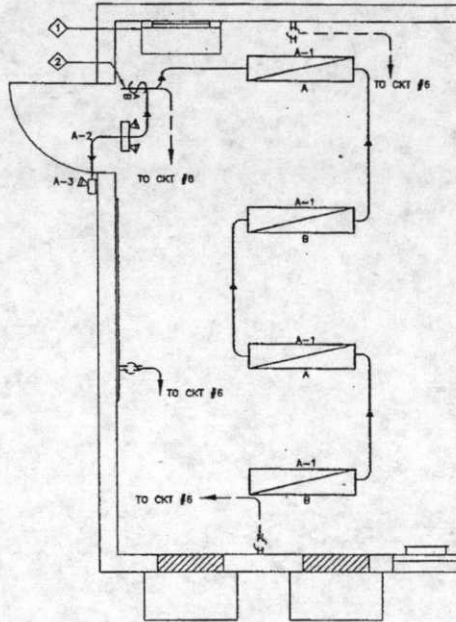
CONSULTANT:
 SEAL OF APPROVAL:
 SHEET TITLE:
UTILITIES PLAN & DETAILS

SHEET NUMBER: **E2** REVISION: **5**

PROJECT INFORMATION:
E2 **5**
 P11NS007

KEY NOTES:

- ◇ POWER PANEL "A"
- ◇ B-LEVEL SWITCH



LIGHTING FIXTURE SCHEDULE			
FIXTURE TYPE	MOUNTING SURFACE	LAMPS	FIXTURE WATT/VOLT
⊕	WALL	4 T8	60
⊕	PENDANT	2 T8	120
⊕	POST	2 T8	28
⊕		1 T8	120
⊕		1 T8	175

MANUFACTURER/CATALOG NUMBER

NEW SURFACE MOUNTED T8 FLUORESCENT LIGHT FIXTURE, 2X30W LAMPS W/ACRYLIC PRESIATIC DIFFUSOR, LITHOMA MODEL #E12 49 120 ESB

DUAL-LITE FPL-2, MOUNTED AT 7'-4"

LITHOMA, W/ 70SP, 120 MG, MOUNTED AT 7'-4"

ALL FIXTURES TO BE APPROVED BY VERIZON WIRELESS COMMUNICATIONS/ARCHITECT BEFORE PURCHASE.

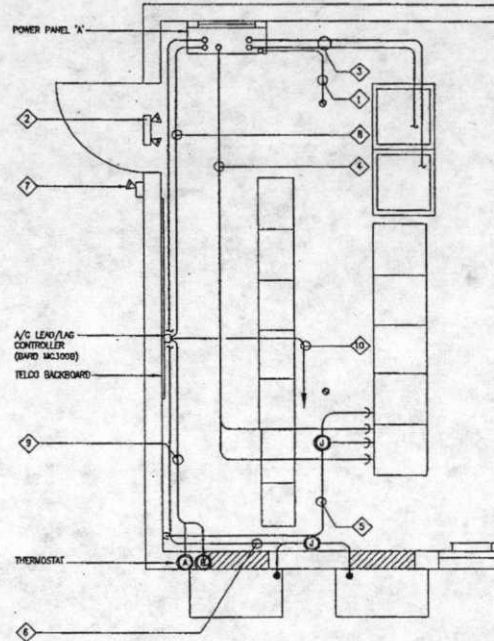
ELEC. LIGHTING PLAN & LTG. FIXTURE SCHEDULE

SCALE: 1/4" (AS) = 1'-0"



KEY NOTES:

- ◇ 2" C (EAT) - 3 #10 + 1 #1 COND. FOR SMOKE ALARM
- ◇ EXIT LIGHT
- ◇ 3/4" C (EAT) - 2 #10 + 1 #12 COND. FOR BATTERY CHARGER
- ◇ (2) 1" C (EAT) - 3 #2 + 1 #6 COND. FOR MODEL # 1 & 2 POWER
- ◇ 2" C (EAT) - FOR TELCO
- ◇ 1" C (EAT) - 4 #8 + 2 #10 COND. FOR A/C UNITS
- ◇ EXTERIOR LIGHT
- ◇ 3/4" C (EAT) - 2 #12 + #12 COND FROM CKT #60 FOR A/C LEAD/LAG CONTROLLER
- ◇ 3/4" C (EAT) - #16 FOR THERMOSTAT SENSORS
- ◇ 1" C (EAT) - TO A/C UNIT FOR CONTROL. REFER TO E-10 FOR WIRING DIAGRAM



SYMBOLS:

- CONDUIT LOOKING DOWN
- ◐ CONDUIT LOOKING UP
- CONDUIT TURNING
- ⊙ JUNCTION BOX

NOTES:

1. DO NOT SCALE DRAWINGS. ALL DIMENSIONS OF AND BETWEEN EXISTING BUILDINGS/STRUCTURES, OR RELATIVE DISTANCES AS SHOWN BETWEEN EXISTING BUILDINGS/STRUCTURES AND THE TRUE NORTH ARE TO BE CONFIRMED BY THE SURVEYOR.

2. POWER/TELCO ROUTING AND DESIGN ARE PRELIMINARY AND MUST BE VERIFIED WITH LOCAL UTILITY COMPANIES.

CONDUIT/WIRING PLAN

SCALE: 1/4" (AS) = 1'-0"



2785 MITCHELL DRIVE, SUITE 9
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PROJECT INFORMATION:

OAKLAND COLISEUM
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ALAMEDA COUNTY

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3	06/26/13	CD (100%)	JL
4	06/26/13	CD (EAT)	JL
5	11/11/11	CD (EAT)	JL

PLANS PREPARED BY:



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CONSULTANT:

SCALE OF APPROVAL:

SHEET TITLE:

ENLARGED UTILITIES PLAN,
ELECTRICAL LIGHTING
PLAN & LTG. FIXTURE
SCHEDULE

SHEET NUMBER: REVISION:

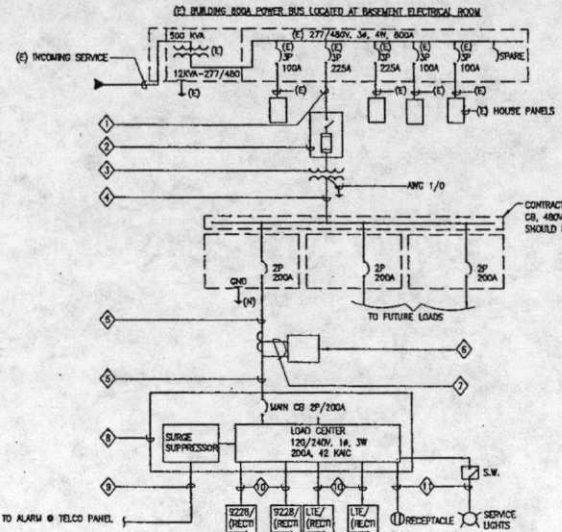
E3 **5**
P11N5007

KEYNOTES:

- ① (M) 3" C (RCS)
- ② (S) #350 RICAL + (1) #2 COND. APPROX. 600', VD = 2.5%
- ③ (M) FUSED DIS. SWITCH 480V, 3P/225A, NEMA LOCATED @ NEMA'S PRIMARY
- ④ (M) XMR, 480 - 208/120V, 3#, 150KVA, LOCATED @ LEASE AREA
- ⑤ (M) 2" 3" C (DWT) - 4 #350 NEMA, + 1 #2 CHD. (FOR EACH CONDUIT - APPROX. 10 FT.)
- ⑥ (M) 2" C (RCS) 3 #3/0 + 1 #4 CHD. APPROX. 35 LF, VD = 0.6%
- ⑦ (M) SUB-METER, 240V, 1#, 3#, 200A LOCATED WITHIN LEASE AREA
- ⑧ (M) 3/4" C (DWT)-3#12 + 4#12 (FOR CURRENT SENSOR)
- ⑨ NEW POWER PANEL (PANEL "A"), 120/240V, 1#, 3#, 200A, 100A, NEMA 1R, LOCATED INSIDE SHELTER
- ⑩ (M) 3/4" C (RCS) - 4#16 FOR SURGE ARRESTOR AND POWER FAILURE ALARM, APPROX. 10 FT.
- ⑪ (M) 2" C (RCS) - 3#2 + 1#4 CHD. APPROX. 10 FT.
- ⑫ (M) 3/4" C (RCS) - 2#12 + 1#12 CHD

NOTES:

- 1. FOR UNDERGROUND - USE PVC CONDUIT
- 2. FOR ABOVE GRADE - USE RIGID CONDUIT
- 3. FOR INSIDE BUILDING - USE EMT CONDUIT WITH COMPRESSION FITTING.



NOTES:

- 1. SUBCONTRACTOR SHALL PROVIDE 200AMP, SINGLE PHASE, 120/208 VAC, 60HZ SERVICE FOR SITE.
- 2. SUBCONTRACTOR SHALL COORDINATE WITH UTILITY COMPANY BEFORE THE START OF CONSTRUCTION. POWER AND TELEPHONE CONDUIT SHALL BE PROVIDED AND INSTALLED PER UTILITY REQUIREMENTS.
- 3. FOR COMPLETE INTERNAL WIRING AND ARRANGEMENT REFER TO DRAWINGS PROVIDED BY PANEL MANUFACTURER.
- 4. SUBCONTRACTOR SHALL PROVIDE ELECTRICAL SERVICE EQUIPMENT WITH FAULT CURRENT RATINGS GREATER THAN THE AVAILABLE FAULT CURRENT FROM THE POWER UTILITY.
- 5. SUBCONTRACTOR SHALL VERIFY THAT THE MAIN BREAKING JUMPER AND GROUNDING ELECTRODE CONDUCTOR IS INSTALLED PROPERLY WHEN PANEL IS SERVICE ENTRANCE EQUIPMENT.
- 6. REFER TO PANEL SCHEDULE PROVIDED BY SHELTER MANUFACTURER FOR CIRCUIT ARRANGEMENT AND WIRING DIAGRAM.
- 7. LIGHTING WILL BE DESIGNED AND INSTALLED BY SHELTER MANUFACTURER.
- 8. TITLE 24 SHALL BE PROVIDED BY SHELTER MANUFACTURER.

ALL WORK TO COMPLY WITH NFPA 70E AND OSHA TITLE 29.

verizonwireless

2785 MITCHELL DRIVE, SUITE 9
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OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

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06/06/13	CD (90%)	JK	
11/12/11	CD (90%)	JK	

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CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE:
1-LINE DIAGRAMS & PANEL SCHEDULE

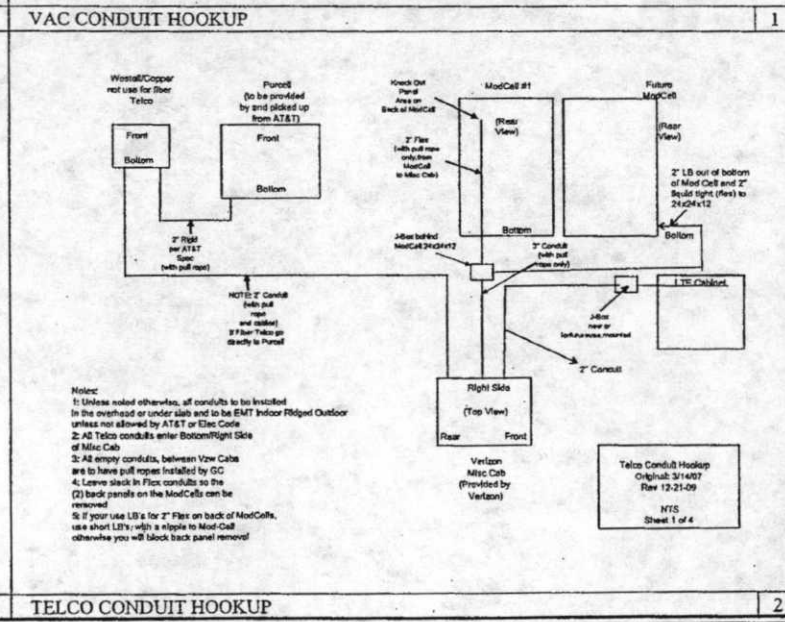
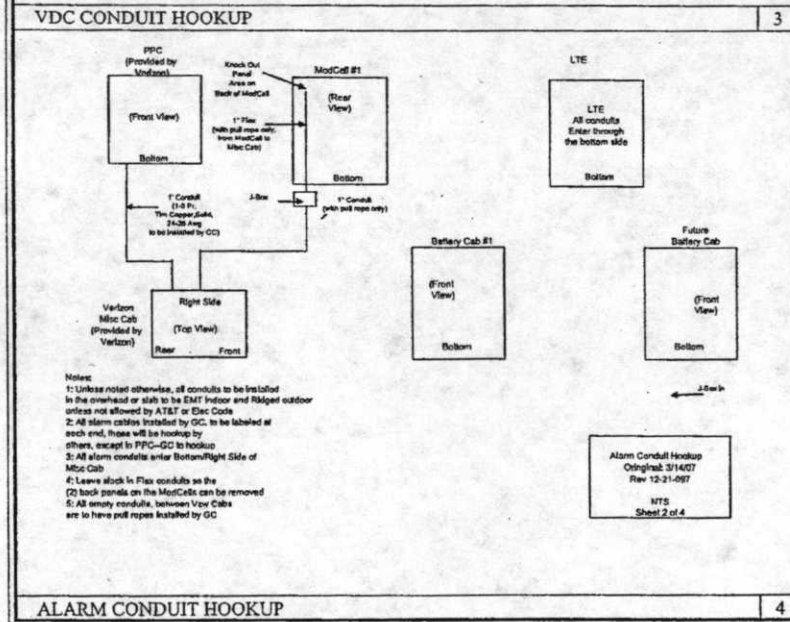
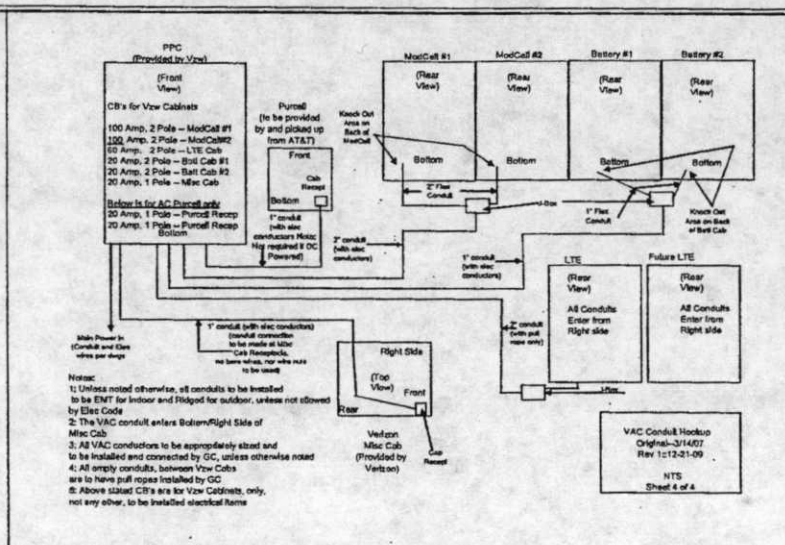
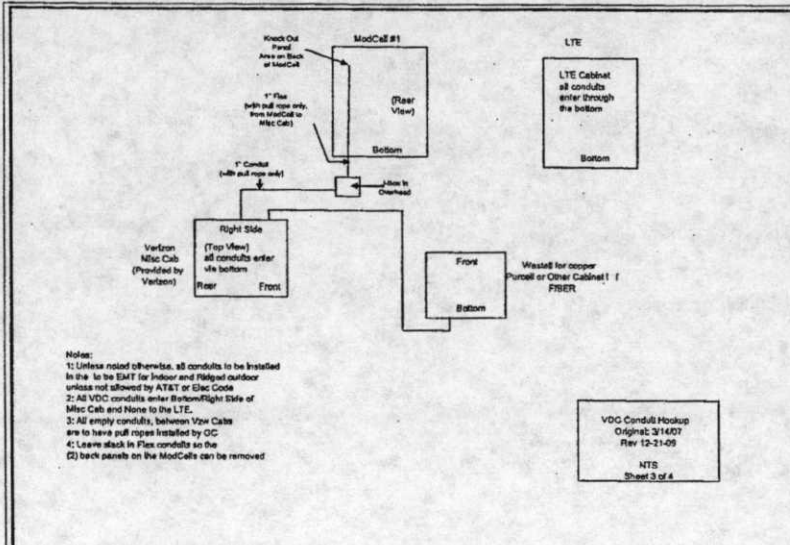
SHEET NUMBER: **E4** REVISION: **5**
P11NS007

1-LINE DIAGRAM FOR VOLTAGE ALTERNATIVE CURRENT

"PANEL A"
SERVICES SUPPLIED AND INSTALLED BY DELTA ELECTRICAL ENGINEERS

PANEL CIRCUIT AND LOAD SCHEDULE									
DESCRIPTION	REQ.	LOAD PER FRAME (KW)		PHASE	WIRE SIZE	CIRCUIT	MATERIAL	SERVICES	LOAD PER FRAME (KW)
		A	B						
1	1	1000	1000	20	2	10	1000	1000	2
2	1	1000	1000	20	2	10	1000	1000	4
3	1	1000	1000	20	2	10	1000	1000	6
4	1	1000	1000	20	2	10	1000	1000	8
5	1	1000	1000	20	2	10	1000	1000	10
6	1	1000	1000	20	2	10	1000	1000	12
7	1	1000	1000	20	2	10	1000	1000	14
8	1	1000	1000	20	2	10	1000	1000	16
9	1	1000	1000	20	2	10	1000	1000	18
10	1	1000	1000	20	2	10	1000	1000	20
11	1	1000	1000	20	2	10	1000	1000	22
12	1	1000	1000	20	2	10	1000	1000	24
13	1	1000	1000	20	2	10	1000	1000	26
14	1	1000	1000	20	2	10	1000	1000	28
15	1	1000	1000	20	2	10	1000	1000	30
16	1	1000	1000	20	2	10	1000	1000	32
17	1	1000	1000	20	2	10	1000	1000	34
18	1	1000	1000	20	2	10	1000	1000	36
19	1	1000	1000	20	2	10	1000	1000	38
20	1	1000	1000	20	2	10	1000	1000	40
21	1	1000	1000	20	2	10	1000	1000	42
22	1	1000	1000	20	2	10	1000	1000	44
23	1	1000	1000	20	2	10	1000	1000	46
24	1	1000	1000	20	2	10	1000	1000	48
25	1	1000	1000	20	2	10	1000	1000	50
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27	1	1000	1000	20	2	10	1000	1000	54
28	1	1000	1000	20	2	10	1000	1000	56
29	1	1000	1000	20	2	10	1000	1000	58
30	1	1000	1000	20	2	10	1000	1000	60
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44	1	1000	1000	20	2	10	1000	1000	88
45	1	1000	1000	20	2	10	1000	1000	90
46	1	1000	1000	20	2	10	1000	1000	92
47	1	1000	1000	20	2	10	1000	1000	94
48	1	1000	1000	20	2	10	1000	1000	96
49	1	1000	1000	20	2	10	1000	1000	98
50	1	1000	1000	20	2	10	1000	1000	100

PANEL SCHEDULE



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PROJECT INFORMATION:
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ALAMEDA COUNTY

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06/26/13	CD (DESIGN)	JL	
11/15/11	CD (DESIGN)	JL	

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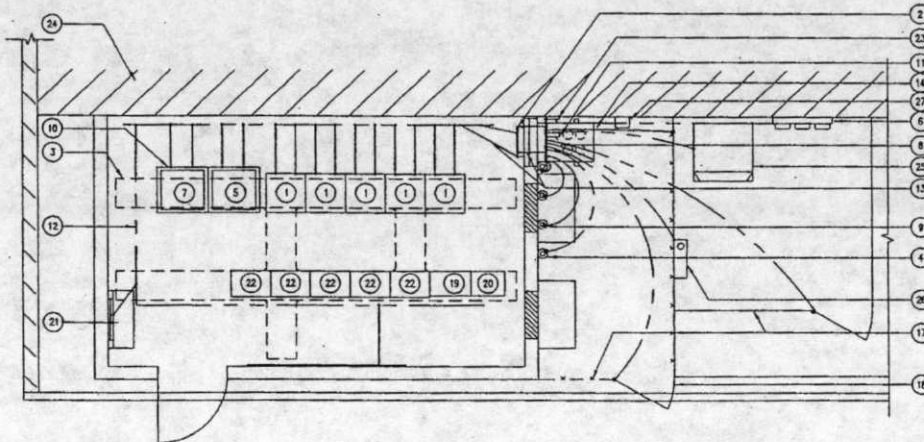
CONSULTANT:

SEAL OF APPROVAL:

SHEET TITLE: **EQUIPMENT CABINET CONDUIT HOOKUP DIAGRAMS**

SHEET NUMBER: **E5** REVISION: **5**
P11185007

NOTES:
 1. DRAWING IS A DIAGRAM. SEE SHEETS E2 AND E3 FOR SITE SPECIFIC INFORMATION.
 2. SEE DETAIL 3/RS, GENERAL GROUNDING NOTES, FOR ADDITIONAL INFORMATION.



KEY NOTES:

- 1 NEW MODELL EQUIPMENT CABINET
- 2 NEW MAIN BUS BAR (TYP.)
- 3 NEW OVERHEAD CABLE LADDER (TYP.)
- 4 NEW GPS ANTENNA (TYP. OF 4)
- 5 NEW FIBER EQUIPMENT CABINET (TYP.)
- 6 NEW BRUSSED CUTTER W/ (3) DIS. CBS. (2 FOR FUTURE)
- 7 NEW BATTERY CABINET (TYP.)
- 8 NEW ANTENNA CABLE GROUNDING
- 9 NEW CADWELD CONNECTION (TYP.)
- 10 NEW MECHANICAL CONNECTION (TYP.)
- 11 TIE TO EXISTING BUILDING MAIN GROUNDING SYSTEM
- 12 NEW #2 AWG INSULATED COPPER GROUND (DIAG. GROUND)
- 13 TIE TO MAIN BUS BAR (TYP.)
- 14 NEW #2 AWG BOX (TYP.)
- 15 NEW #2 AWG BOX (TYP.)
- 16 NEW #2 AWG BOX (TYP.)
- 17 NEW 8'-0" HIGH CHAIN LINK FENCE (TYP.)
- 18 NEW 3'-0" WIDE ACCESS GATE (TYP.)
- 19 NEW FIBER CABINET
- 20 NEW WIRELESS EQUIP. CABINET (FACILITY INTERCONNECT CABINET)
- 21 NEW INTEREST POWER DISTRIBUTION PANEL AND SURGE ARRESTOR (POWER PANEL "A")
- 22 LTE EQUIPMENT CABINET
- 23 NEW ANTENNA GROUNDING (TYP.)
- 24 EXISTING CONCRETE WALL (TYP.)
- 25 NEW 150KVA STEP-DOWN TRANSFORMER MOUNTED TO EXISTING CONCRETE SLAB
- 26 NEW TELCO CABINET MOUNTED TO NEW H-FRAME
- 27 NEW FUSED DISCONNECT SWITCH

verizon wireless
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REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
07/31/13	CD (DESIGN CHANGE)	JK	
07/29/13	CD (DESIGN CHANGE)	JK	
08/06/13	CD (100%)	JK	
08/09/13	CD (100%)	JK	
11/11/13	CD (100%)	JK	

PLANS PREPARED BY:
DELTA GROUPS ENGINEERING, INC.
 CONSULTING ENGINEERS
 3400 WEST LAS HORNETS, SUITE 403
 PLEASANTON, CA 94588
 TEL: (925) 468-0115 FAX: (925) 468-0335

CONSULTANT:

SEAL OF APPROVAL:

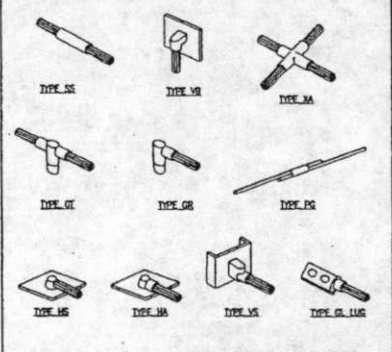
SHEET TITLE:
 GROUNDING PLAN,
 GENERAL GROUNDING
 NOTES, & DETAILS

SHEET NUMBER: REVISION:

E6 **5**
 P11NS007

GROUNDING PLAN

1. EXTERIOR GROUNDING BUS BARS ARE GALVANIZED STEEL.
2. ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND MOUNTING MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
3. ALL GROUNDING CONDUCTORS SHALL BE COPPER.
4. ALL GROUNDING WIRE BELOW GRADE SHALL BE BARE #2 THINNED SOLID COPPER WIRE BURIED @ 18" MINIMUM. ALL CONDUIT-BELOW GRADE SHALL BE PVC SCHEDULE 80.
5. ALL GROUND WIRE ABOVE GRADE IS STRANDED COPPER (LW). SIZE AS SHOWN ON PLANS.
6. USE MINIMUM #2/0 AWG COPPER CONDUCTORS FOR COMMUNICATION SERVICE GROUNDING CONDUCTORS.
7. ALL GROUND CONNECTIONS SHALL BE LISTED FOR THE PURPOSED INTENDED.
8. ALL LUGS SHALL BE 2-HOLE LONG-BARREL SOLID COPPER BURNIN THOMAS & BETTS OR EQUAL.
9. MINIMUM BEND RADIUS FOR GROUNDING CONDUCTORS #2 AND LARGER SHALL BE 12", 8" MINIMUM RADIUS FOR SMALL CONDUCTORS.
10. ALL CONNECTIONS AT BELOW GRADE APPLICATIONS SHALL BE CADWELD.
11. ALL IRREVERSIBLE COMPRESSION TYPE CONNECTORS SHALL BE INSTALLED USING A 12 TON HYDRAULIC PRESS MINIMUM.
12. INSTALL GROUNDING AND BONDING CONDUCTORS WITH SUFFICIENT SLACK TO AVOID BREAKING DUE TO SETTLEMENT AND MOVEMENTS OF CONDUCTORS AT ATTACHED POINTS.
13. COAT ALL BOLTED LUG & BUS GROUND CONTACT SURFACES WITH KOPR-SHIELD, NO-OX, OR PRIOR TO ATTACHMENT.
14. GROUNDING RODS SHALL BE 5/8" DIAMETER x 10'-0" LONG COPPER CLAD STEEL.
15. WHERE MULTIPLE GROUND RODS ARE INSTALLED THEY SHALL NOT BE LESS THAN 10 FEET NOR MORE THAN 16 FEET APART UNLESS APPROVED BY THE CARRIER REPRESENTATIVE, OR CONSTRUCTION MANAGER.
16. DRIVEN GROUND RODS SHALL BE USED EXCEPT WHERE SPECIFIC SITE CONDITIONS PRESENT DIFFICULTY, IN WHICH CASE, A ELECTROLYTIC (CATHODIC) ROD SYSTEMS MAY BE USED, SUCH AS MANUFACTURED BY LINCOLNE KIT GROUNDING SYSTEM OR EQUAL.
17. CONTRACTOR SHALL TEST GROUND RESISTANCE AT "MGB" TO VERIFY THAT RESISTANCE SHALL NOT EXCEED 5 OHMS AND SHALL SUBMIT AN INDEPENDENT TESTING REPORT TO ATTPMS REPRESENTATIVE, OR CONSTRUCTION MANAGER INDICATING RESISTANCE VALUE OBTAINED. CONTRACTOR SHALL PROVIDE GROUNDING SYSTEM AS PART OF HIS BID, AS REQUIRED TO ATTAIN A 5 OHM VALUE OR LESS.
18. SEAL ALL GROUND KITS AND CONNECTIONS WITH "ANDREW" WEATHER SEAL.
19. FINAL GROUND TEST SHALL BE MADE IN PRESENCE OF THE CARRIER REPRESENTATIVE, OR CONSTRUCTION MANAGER.
20. EGR REFERS TO #2 SOLID THINNED COPPER, "EXTERNAL GROUND ROD."
21. MAIN GROUND BUS (MGB) IS TYPICALLY INSIDE SHELTER.
22. ANTENNA GROUND BUS (AGB) SHALL BE LOCATED AT TOP OF ANTENNA MOUNTING STRUCTURE, ADJACENT TO THE ANTENNA MOUNTS.
23. TOWER GROUND BUS (TGB) SHALL BE LOCATED AT THE BASE OF THE ANTENNA MOUNTING STRUCTURE, ADJACENT TO WHERE THE COAXIAL CABLES ARE ROUTED.



GENERAL GROUNDING NOTES

CADWELD DETAILS

verizonwireless

2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLISEUM
250504
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE: 07/31/13

ISSUED FOR: CD (DESIGN CHANGE)

REV: DATE: DESCRIPTION: BY:

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Δ	07/09/13	CD (DESIGN CHANGE)	JK
Δ	06/26/13	CD (ISSUE)	JK
Δ	06/06/13	CD (ISSUE)	JK
Δ	11/11/11	CD (ISSUE)	JK

PLANS PREPARED BY:

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PLEASANTON, CA 94588
TEL: (925) 468-0115 FAX: (925) 468-0335

CONSULTANT:

SEAL OF APPROVAL:

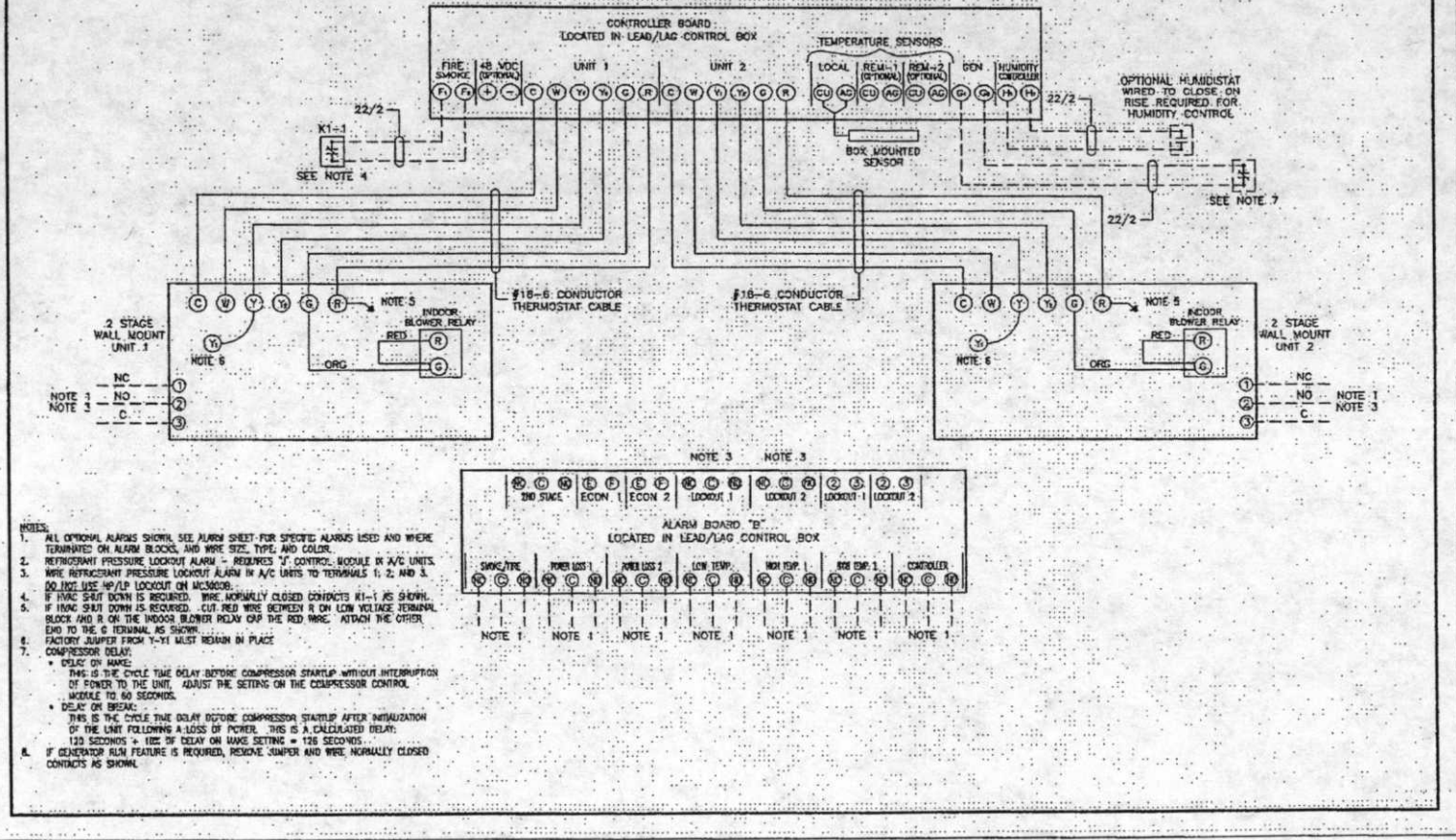
SHEET TITLE:

BARD TYPICAL LEAD/LAG WIRING DIAGRAM

SHEET NUMBER: E8 REVISION: 5

P11NS007

LEAD/LAG CONTROLLER BARD MODEL MC3000B
WITH OUT ECONOMIZERS



- NOTES:
- ALL OPTIONAL ALARMS SHOWN. SEE ALARM SHEET FOR SPECIFIC ALARMS USED AND WHERE TERMINATED ON ALARM BLOCKS, AND WIRE SIZE, TYPE, AND COLOR.
 - REFRESHMENT PRESSURE LOCKOUT ALARM - REQUIRES 'F' CONTROL MODULE IN A/C UNITS.
 - WIRE REFRESHMENT PRESSURE LOCKOUT ALARM IN A/C UNITS TO TERMINALS Y1, Z, AND X. DO NOT USE W/1P LOCKOUT ON MC3000B.
 - IF HVAC SHUT DOWN IS REQUIRED, WIRE NORMALLY CLOSED CONTACTS K1-1 AS SHOWN.
 - IF HVAC SHUT DOWN IS REQUIRED, CUT RED WIRE BETWEEN R ON LOW VOLTAGE TERMINAL BLOCK AND R ON THE INDOOR BLOWER RELAY OR THE RED WIRE. ATTACH THE OTHER END TO THE G TERMINAL AS SHOWN.
 - FACTORY JUMPER FROM Y-Y1 MUST REMAIN IN PLACE.
 - COMPRESSOR DELAY:
 - DELAY ON MAKE: THIS IS THE CYCLE TIME DELAY BEFORE COMPRESSOR STARTUP WITHOUT INTERRUPTION OF POWER TO THE UNIT. ADJUST THE SETTING ON THE COMPRESSOR CONTROL MODULE TO 60 SECONDS.
 - DELAY ON BREAK: THIS IS THE CYCLE TIME DELAY BEFORE COMPRESSOR STARTUP AFTER INITIALIZATION OF THE UNIT FOLLOWING A LOSS OF POWER. THIS IS A CALCULATED DELAY. 120 SECONDS + 10% OF DELAY ON MAKE SETTING = 126 SECONDS.
 - IF GENERATOR ALM FEATURE IS REQUIRED, REMOVE JUMPER AND WIRE NORMALLY CLOSED CONTACTS AS SHOWN.

BARD TYPICAL LEAD/LAG WIRING DIAGRAM



Northstar Battery Lead and Acid weights per 12 Volt Battery

Battery Type	Weight (LBS)	Volume (GAL)	Weight (LBS)	Volume (GAL)	Weight (LBS)	Volume (GAL)	Weight (LBS)	Volume (GAL)	Weight (LBS)	Volume (GAL)	Weight (LBS)	Volume (GAL)
NSB40NSB12180A	2.6	5.7	2.0	0.5	1.1	2.4	0.8	0.2	9.1	20.2	3.4	7.6
NSB70NSB12330R	4.3	9.4	3.2	0.9	1.8	4.0	1.4	0.4	15.3	33.8	3.2	11.5
NSB15NSB12370S	4.3	9.5	3.5	0.9	1.9	4.5	1.4	0.4	15.0	33.0	5.9	12.9
NSB80NSB12370B	5.2	13.6	4.7	1.2	2.5	5.7	2.0	0.5	20.1	44.2	8.0	17.6
NSB125NSB12475	8.1	17.9	6.2	1.6	3.4	7.5	2.6	0.7	26.8	59.1	14.0	24.3
NSB40FTNSB12180A	2.4	5.3	1.8	0.5	1.0	2.2	0.8	0.2	7.2	15.9	3.3	7.2
NSB60FTNSB12240A	3.7	8.1	2.8	0.7	1.6	3.4	1.2	0.3	10.9	24.1	4.7	10.4
NSB90FTNSB12330A	5.3	11.6	4.0	1.1	2.2	4.9	1.7	0.4	16.0	35.3	7.4	16.4
NSB100FTNSB12330A	5.2	13.6	4.7	1.2	2.5	5.7	2.0	0.5	18.1	39.8	8.0	17.7
NSB140FTNSB12330A	6.8	15.0	5.2	1.4	2.9	6.3	2.2	0.6	19.9	43.8	9.1	20.1
NSB145FTNSB12330A	9.0	19.8	6.9	1.8	3.8	8.3	2.9	0.8	25.7	56.5	12.0	26.5
NSB170FTNSB12330A	10.4	22.9	7.8	2.0	4.4	9.7	3.3	0.9	28.7	63.3	14.0	31.8

All weights and volumes are for 12V-monobloc

PAGE 1

UNUSED

BATTERY TANK (UNSEW EQUIPMENT CABINET)

NORTHSTAR BATTERY COMPANY				
MODEL	TYPE	AMOUNT OF ELECTROLYTE	NO. OF BATTERIES	TOTAL GAL. ELECTROLYTE
NSB170FT	LEAD ACID	2.08 GAL.	24	49.92

QUANTITY IN EACH BATTERY

ITEM	QUANTITY	ELECTROLYTE / UNIT (L)	LEAD / UNIT (LBS)	ELECTROLYTE / UNIT (GAL)
1	1	7.80	63.30	2.08

CABINET	QUANTITY	ELECTROLYTE / UNIT (L)	LEAD / UNIT (LBS)	ELECTROLYTE / UNIT (GAL)
#1	24	187.20	1518.30	49.92
#2	0	0	0	0

BATTERY NOTES

1. EACH RACK OR GROUPS OF RACKS SHALL BE PROVIDED WITH A LIQUID TIGHT 4 SIDE SPILL CONTROL BARRIER WHICH EXTENDS AT LEAST 1 INCH BEYOND THE RACK IN ALL DIRECTIONS.
2. FUTURE BATTERY CABINET #2 SHALL HAVE A SEPARATE PERMIT PRIOR TO USE/INSTALLATION.

PAGE 2

UNUSED



2785 MITCHELL DRIVE, SUITE 9
WALNUT CREEK, CA 94598

PROJECT INFORMATION:

OAKLAND COLISEUM
25054
7000 COLISEUM WAY
OAKLAND, CA 94621
ALAMEDA COUNTY

CURRENT ISSUE DATE:

07/31/13

ISSUED FOR:

CD (DESIGN CHANGE)

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4	06/26/13	CD (ECHO)	JK
5	11/15/11	CD (ECHO)	JK

PLANS PREPARED BY:

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CONSULTANT:

[Empty box for consultant signature]

SEAL OF APPROVAL:

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SHEET TITLE:

BATTERIES-MATERIALS
SAFETY DATA SHEET

SHEET NUMBER:

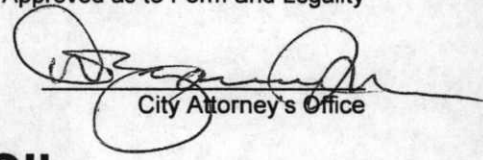
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REVISION:

5

P11NS007

FILED
OFFICE OF THE CITY CLERK
OAKLAND


City Attorney's Office

2014 SEP 11 AM 10:58

OAKLAND CITY COUNCIL

RESOLUTION NO. _____ C.M.S.

Introduced by Councilmember _____

RESOLUTION APPROVING AND AUTHORIZING THE EXECUTION OF A FIRST AMENDMENT TO LICENSE AGREEMENT BETWEEN GTE MOBILNET OF CALIFORNIA LIMITED PARTNERSHIP, D/B/A VERIZON WIRELESS AND THE OAKLAND ALAMEDA COUNTY COLISEUM AUTHORITY

WHEREAS, the Oakland City Council and Alameda County Board of Supervisors approved, and the Oakland Alameda County Coliseum Authority Board of Commissioners entered into, a License Agreement with GTE Mobilnet of California Limited Partnership, dba Verizon Wireless to permit it to install a Distributed Antenna System (DAS) in the Coliseum Complex in September 2012; and

WHEREAS, GTE Mobilnet of California Limited Partnership, d/b/a Verizon Wireless ("Verizon") has requested that the Oakland Alameda County Coliseum Authority (the "Authority") enter into a first amendment to license agreement (the "Amendment") adding additional space for equipment to be installed under the License Agreement previously approved by the Authority that allowed Verizon to install a distributed antenna system ("DAS") within the arena located at the Oakland Alameda County Coliseum Complex to enhance Verizon cellular service within the stadium, and has agreed to pay the Authority an increase in license fees of two thousand four hundred dollars per year (\$2,400); and

WHEREAS, the Authority's agent, AEG Oakland Management, LLC ("AEG"), has approved allocating the additional space; and

WHEREAS, the Management Agreement between the Authority, the City of Oakland (the "City") and the County of Alameda (the "County") requires that the Authority obtain the approval of the City and County prior to entering into any license agreement or amendment thereto; and

WHEREAS, the Authority desires to enter into the Amendment; and

WHEREAS, the Authority determines that entering into the Amendment 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 Amendment; and

WHEREAS, staff has provided a true and correct copy of the First Amendment to the License Agreement; and

WHEREAS, implementation of the First Amendment to the Lease Agreement 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 First Amendment to 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 First Amendment to 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; and be it

FURTHER RESOLVED: That The Authority's secretary is hereby authorized to attest, to the extent required, the First Amendment to the License Agreement; and be it

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

IN COUNCIL, OAKLAND, CALIFORNIA,

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