

**ENCROACHMENT PERMIT**  
( to be completed by applicant )

PACIFIC BELL MOBILE SERVICES, a California corporation, "Permittee," hereby requests permission to construct and maintain wireless communications facilities and conduct soil borings for preliminary geotechnical foundation investigations at **one location** encroaching in the public right-of-way as shown on the attached drawings. Upon issuance of this permit, Permittee agrees to comply with the attached terms and conditions.

Dated 10/4/96

PACIFIC BELL MOBILE SERVICES, a California corporation

By Charles M. M... [Signature]

Title Network Deployment Manager

**ENCROACHMENT PERMIT APPROVAL**  
( to be completed by City )

This permit shall become effective upon the approval of the Departments listed below. Issuance of this permit shall not be construed as a waiver of any other applicable permit or requirement, but is only revocable permission to use the land for the purposes above described.

- Public Utilities Water B. Simpson
- Public Utilities Electric Buttman 10.4.96
- Park and Recreation Nancy Beard
- Planning David Rucin
- Property Services [Signature]

Upon obtaining the above signatures, return this permit to the Public Works Department for final approval.

Dated 10/25/96

<sup>WMC</sup>  
[Signature]  
Public Works Director

Attachments: Terms and Conditions  
Pacific Bell Mobil Services Drawings (as described above)

Encroachment Permit No. 1376

## TERMS AND CONDITIONS

The following terms and conditions apply to encroachment permit number E-1376

1. Permittee acknowledges that the areas of encroachment ("the areas") are owned or controlled by the City of Riverside.
2. Permittee acknowledges that the areas could at any time be needed for a proposed or planned public improvement and the City may require Permittee to relocate Permittee's facilities at Permittee's expense. City shall provide written notice of relocation to Permittee pursuant to the terms and conditions of the Master Communications Site License Agreement approved by the City Council of the City of Riverside on March 26, 1996, per City Council Minutes Vol. 81 Page 320. Permittee shall within the time prescribed by the City, remove and relocate all improvements necessary for the planned public improvement. If Permittee fails to abide by the relocation request of the City, the City shall have the right to remove Permittee's facilities without reimbursement to Permittee. The cost of such removal shall constitute a debt owed to the City and shall be paid by Permittee to the City.

Whenever the City causes the grading, widening, or other City improvement of the areas occupied by Permittee, and such grading, widening, or other City improvement requires the relocation of Permittee's then-existing facilities within the areas, the City shall:

Provide Permittee, within a reasonable time prior to the commencement of such grading or widening, written notice requesting such relocation; and

Provide Permittee with copies of any available plans and specifications for such grading or widening.

After receipt of such notice, plans and specifications, and pursuant to said terms and conditions contained in said Master Communications Site License Agreement, Permittee shall relocate such facilities which are in conflict with City construction and such relocation shall be at no cost to the City.

3. Permittee waives the right of claim, loss, damage or action against the City resulting from revocation, termination, removal of improvements or any action of the City, its officers, agents or employees taken in accordance with the terms herein.
4. If the City Council of the City of Riverside finds that Permittee is in default of the terms of this permit, that finding shall be cause for revocation.
5. Permittee shall hold the City of Riverside harmless from and against all claims demands, costs, losses, damages, injuries, actions for damages and/or injuries, and liability in connection with the construction, encroachment, and/or maintenance to be done by Permittee within the areas. Permittee also waives and releases any and all claims against the City of Riverside and its officers and employees for future losses, expenses, lost revenues and incidental and consequential damages suffered by Permittee as a result of the City's negligently damaging Permittee's installation, except for the reasonable cost of repair.

6. Before commencing any construction on City controlled property, Permittee shall obtain a Construction Permit or Street Opening Permit from the City Public Works Department. The Permittee's contractor shall conduct construction activities in the areas as directed by the City's Construction Inspector. Particular attention shall be made to restoration of surfaces with similar materials where construction and/or investigations result in damage to public improvements. Restoration of the parkway to previously existing conditions must also be adhered to.

7. Permittee shall insure that construction of Permittee's improvements will not interfere in any way with existing City or utility facilities. The existing City facilities will require future maintenance, reconstruction and revisions and facilities may be added, any of which may result in removal or alteration of Permittee's improvements without reimbursement to the Permittee.

8. Prior to construction, Permittee shall contact Underground Service Alert to field locate existing utility lines. Any conflicts discovered will suspend the further work at the affected site until acceptable revisions are made.

9. At the end of construction, Permittee shall furnish a complete set of as-built plans that, in addition to showing usual construction details, shall also adequately show the horizontal and vertical location of Permittee's installations and appurtenances.

11. Permittee agrees to maintain a minimum of 4.00' clearance on existing sidewalks at each location to permit unobstructed pedestrian traffic.

12. This encroachment permit is further subject to the terms and conditions of the said Master Communications Site License Agreement approved by the City Council on March 26, 1996.

Dated 10/25/96

PACIFIC BELL MOBILE SERVICES, a  
California corporation

By Charles S. Vane

Title Network Deployment Mgr.  
Pacific Bell Mobile Service



"People Serving  
People"

# CITY OF RIVERSIDE

received by:  
Marianne Boring  
10/9/96  
for PBMS

October 9, 1996

Marianne Boring  
c/o PLANCOM, INC.  
2955 Red Hill Avenue, Suite 100  
Costa Mesa, CA. 92626

RECEIVED

OCT 09 1996

DEPT. OF PUBLIC WORKS

Subject: Encroachment Permit for Riverside Swim and Tennis Club

Dear Ms. Boring:

The City is reviewing your request for the issuance of an encroachment permit to construct and maintain communication facilities located within the street right-of-way adjacent to the Riverside Swim and Tennis Club. A question has been raised whether or not your facilities proposed for construction within the swim and Tennis Club property would be compatible with any future development. Recently, the City as the applicant for a planned residential development case PRD-1-923, proposed to develop this site and the proposed grading would fill the area where your facilities are proposed for construction.

It is my understanding that this case has expired and there are no current plans being processed to develop this site, but you should be aware that future development of the Swim and Tennis Club site may require relocation of your facilities due to site grading and fill material being placed where your facilities exist. Any relocation costs for your facilities shall not be paid by the City.

Should you have any questions, please contact me at 782-5326.

Very truly yours,

Kenneth G. Strout  
Land Records Technician II

cc: Planning

## PUBLIC WORKS DEPARTMENT

3900 MAIN STREET • RIVERSIDE, CALIFORNIA 92522 • (909) 782-5341  
FAX: (909) 782-5622

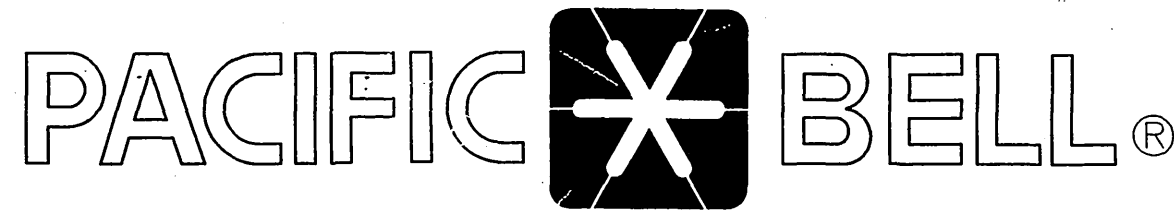
E-1376

**Abbreviations**

BTS	BASE TRANSCIVER STATION
CO	CONDUIT ONLY
EOPT	EQUIPMENT
FUT	FUTURE
GND	GROUND
HV	HIGH VOLTAGE
ID	INSIDE DIAMETER
LA	LIGHTNING ARRESTOR
LNA	LOW NOISE AMPLIFIER
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
NTS	NOT TO SCALE
PBMS	PACIFIC BELL MOBILE SERVICES
SIM	SIMILAR
SPEC	SPECIFICATION
SW	SWITCH
SWBO	SWITCHBOARD
THK	THICK(NESS)
TYP	TYPICAL
XFMR	TRANSFORMER

**Symbols**

	DETAIL NUMBER	DETAIL REFERENCE
	SHEET NUMBER	
	ELEVATION NUMBER	EXTERIOR ELEVATION REFERENCE
	SHEET NUMBER	
	KEY NOTE REFERENCE	



**Mobile Services**

**PROPRIETARY INFORMATION**  
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PACIFIC BELL MOBILE SERVICES IS STRICTLY PROHIBITED.

DATE: OCTOBER 03, 1996  
ARCHITECT: THE BENTLEY COMPANY  
DRAWN BY: T.G. / T.G.  
CHECKED BY: [Signature]

REV	DATE	DESCRIPTION	BY

**PACIFIC BELL**  
Mobile Services  
4420 ROSEWOOD DR. BLDG. 2, 4TH FLOOR  
PLEASANTON, CALIFORNIA 94588

**Sheet Index**

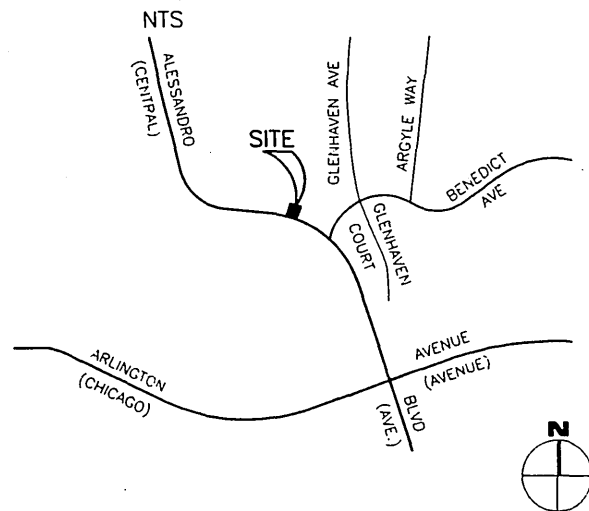
T-1	TITLE SHEET
A-1	SITE PLAN AND GENERAL NOTES
A-2	LEASE AREA PLAN AND SITE SECTION
A-3	ELEVATIONS
A-4	DETAILS
E-1	SITE PLAN AND LEASE AREA DETAIL
E-2	SINGLE LINE DIAGRAM AND DETAILS
E-3	GROUNDING PLAN, DETAILS, AND NOTES

**CM-196-18  
MONOPOLE ANTENNA INSTALLATION  
PRADO DAM**

**Legal Description**

NOT AVAILABLE

**Vicinity Map**



**Consultant Teams**

<b>ARCHITECT:</b> JACK ANDERSEN SBA INC. 2955 REDHILL AVENUE SUITE 100 COSTA MESA, CA 92626 PHONE: (714) 825-8052	<b>ELECTRICAL ENGINEER:</b> THE BENTLEY COMPANY 600 ANTON BLVD SUITE 850 COSTA MESA, CA 92626 PHONE: (714) 434-1800 FAX: (714) 434-1888 CONTACT: MARK HURD
<b>ASSOCIATE ARCHITECT:</b> THE BENTLEY COMPANY 600 ANTON BLVD SUITE 850 COSTA MESA, CA 92324 PHONE: (909) 783-0101 FAX: (909) 783-0108 CONTACT: MARK HURD	
<b>LAND SURVEYOR:</b> AGUILAR ENGINEERING, INC. 937 SOUTH VIA LATA SUITE 500 COLTON, CA 92324 PHONE: (909) 783-0101 FAX: (909) 783-0108 CONTACT: PAUL COOK	

**Project Summary**

<b>OWNER:</b> CITY OF RIVERSIDE 3900 MAIN STREET RIVERSIDE CA. 92504 (909) 782-5461	<b>APPLICANT:</b> PACIFIC BELL MOBILE SERVICES 2955 REDHILL AVENUE SUITE 100 COSTA MESA, CA 92626 TELEPHONE: (714) 825-8017
<b>ZONING:</b> RIGHT OF WAY	<b>OCCUPANCY:</b>
<b>ADA COMPLIANCE:</b>	

**Approvals**

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	_____	_____	_____
PBMS MANAGER	_____	_____	_____
RF MANAGER	_____	_____	_____
SITE ACQUISITION	_____	_____	_____
AEC	_____	_____	_____

**SBA**  
SBX Consulting Services, Inc.  
Project Office:  
2000 Main Street  
Costa Mesa, CA 92626  
(714) 825-8051  
(714) 825-8052

**BENTLEY COMPANY**  
Engineering-Architecture-Management  
600 Anton Blvd  
Suite 850  
Costa Mesa, California 92626  
Telephone: (714) 434-1800  
1777 Bolebo Drive, Suite 350  
Fountain Valley, CA 92708  
Telephone: 510 842 2500

**SITE NUMBER:**  
CM-196-18-PA1-BS3  
**SITE TYPE:**  
MONOPOLE ANTENNA  
INSTALLATION  
**LOCATION:**  
PRADO DAM  
5695 GLENHAVEN AVE.  
RIVERSIDE, CA 92504  
**TITLE:**  
TITLE SHEET  
**SHEET NUMBER:**  
T-1

**CONCRETE**

- ALL PHASES OF WORK PERTAINING TO THE CONCRETE CONSTRUCTION SHALL CONFORM TO THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE', ACI 318 1989 EDITION, WITH MODIFICATIONS AS NOTED IN THE CONTRACT DOCUMENTS.
- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH  $F'_c=2500$  PSI AT 28 DAYS. (INSPECTION NOT REQUIRED)
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II
- AGGREGATE FOR HARDROCK CONCRETE - ASTM C-33.
- 6" MINIMUM CONCRETE SLAB THICKNESS SHALL BE MAINTAINED UNLESS OTHERWISE SHOWN.
- CONCRETE COVER SHALL BE PROVIDED. PER UBC SECTION 1907.7.1
- ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- PROVIDE SCHEDULE 40 STEEL PIPE SLEEVES FOR ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED.

**REINFORCING STEEL**

- ALL REINFORCING STEEL SHALL BE DETAILED AND PLACED IN CONFORMANCE WITH THE 'BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE' (ACI - 318 1989 EDITION), OR MODIFIED BY THE CONSTRUCTION DOCUMENTS.
- REINFORCING BARS - A - 615 GRADE 60 - #5 AND LARGER, AND GRADE 40 - #3 AND #4.
- NO WELDING OF REINFORCEMENT.

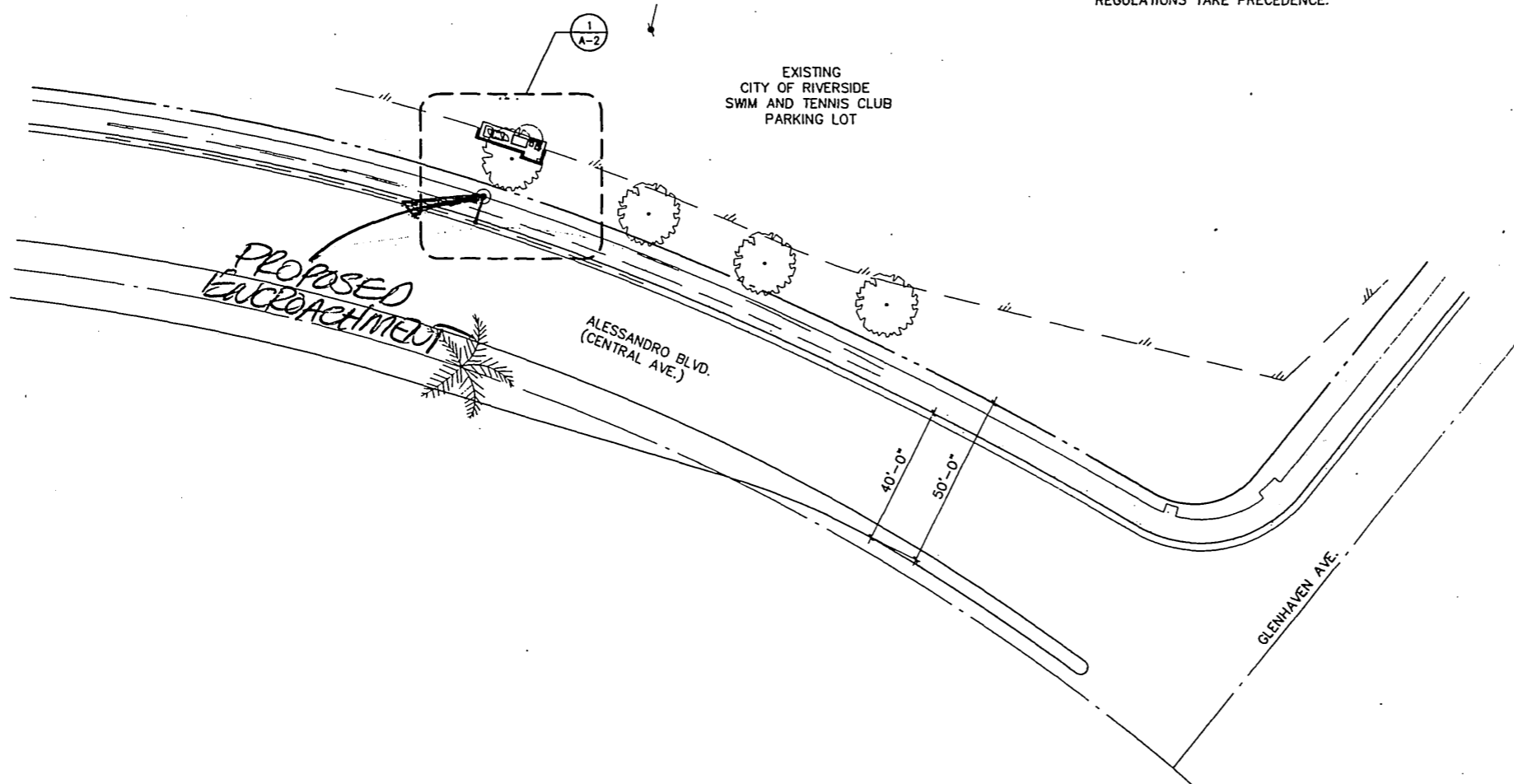
- ALL REINFORCING BAR BENDS SHALL BE MADE COLD.
- REINFORCING SPLICES SHALL BE MADE TO DEVELOP THE BAR OR AS INDICATED ON THE DRAWINGS.
- DOWELS BETWEEN FOOTINGS AND WALLS OR COLUMNS SHALL BE THE SAME GRADE, SIZE AND SPACING AS THE VERTICAL REINFORCING RESPECTIVELY, UNLESS NOTED OTHERWISE.

**MASONRY (CONCRETE BLOCK)**

- CONCRETE BLOCK SHALL BE HEAVY WEIGHT OR MEDIUM WEIGHT HOLLOW LOAD-BEARING CONCRETE MASONRY UNITS CONFORMING TO C90. USE OPEN END UNITS FOR STACKED BOND PATTERN AND BOND BEAM UNITS AT HORIZONTAL REINFORCING.
- MORTAR MIX SHALL CONFORM TO REQUIREMENTS FOR TYPE S AND PROJECT SPECIFICATIONS. MORTAR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS.
- GROUT SHALL CONFORM TO REQUIREMENTS FOR COARSE GROUT. GROUT SHALL ATTAIN A COMPREHENSIVE STRENGTH OF 2,000 PSI AT 28 DAYS.
- PROVIDE A MINIMUM OF 1/2 INCH GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.
- LOW-LIFT CONSTRUCTION; MAXIMUM GROUT POUR HEIGHT IS 4 FEET.
- ALL REINFORCED CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, UNLESS NOTED OTHERWISE.
- CELLS SHALL BE VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CORES CONTAINING REINFORCING STEEL.
- REFER TO ARCHITECTURAL DRAWING FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.

**GENERAL NOTES:**

- THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF PACIFIC BELL MOBILE SERVICES (PBMS). THEY ARE NOT TO BE USED FOR ANY PURPOSES OTHER THAN THE PROJECT FOR WHICH THEY WERE PREPARED.
- THESE DRAWINGS AND SPECIFICATIONS ARE NOT TO BE MODIFIED OR ALTERED WITHOUT THE KNOWLEDGE OF PBMS OR ITS REPRESENTATIVE, SBA, INC. AND THE WRITTEN CONSENT OF THE ARCHITECT/ENGINEER RESPONSIBLE FOR THE PREPARATION OF THESE DRAWINGS.
- THESE DRAWINGS SHALL NOT BE USED FOR ACTUAL CONSTRUCTION PLANS, THEY ARE INTENDED TO REPRESENT PROPOSED CONSTRUCTION.
- DIMENSIONS ARE TO FINISH SURFACES, UNLESS OTHERWISE NOTED.
- THE GENERAL CONTRACTOR SHALL PROVIDE AN ITEMIZED CERTIFICATION TO THE CONSTRUCTION MANAGER, THAT ALL EQUIPMENT AND RELATED HARDWARE, SPECIFIED TO BE PURCHASED AND INSTALLED BY THE GENERAL CONTRACTOR, WERE ORDERED WITHIN 24 HRS. OF THE NOTICE TO PROCEED.
- PRIOR TO PRICING, THE GENERAL CONTRACTOR SHALL VISIT THE JOB SITE AND BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED PROJECT, INCLUDING DEMOLITION, MECHANICAL AND ELECTRICAL INSTALLATIONS AND SHALL ADJUST THE PRICE ACCORDINGLY.
- GENERAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS ON THE JOB SITE AND CONFIRM THAT WORK AS INDICATED ON THE CONSTRUCTION DOCUMENTS (ALSO KNOWN AS WORKING DRAWINGS) CAN BE ACCOMPLISHED AS SHOWN, BEFORE PROCEEDING WITH ANY WORK.
- NOTIFY PBMS OR SBA, INC. OF ANY MAJOR DISCREPANCY REGARDING THE CONTRACT DOCUMENTS, EXISTING CONDITIONS AND/OR DESIGN INTENT. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THIS CLARIFICATION PRIOR TO PROCEEDING WITH THE WORK OR RELATED WORK IN QUESTION.
- INSTALL ALL EQUIPMENT AND MATERIALS PER MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED, OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
- GENERAL CONTRACTOR SHALL VISIT JOB SITE TO REVIEW THE SCOPE OF WORK AND EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, MECHANICAL SERVICE, ELECTRICAL SERVICE AND OVERALL COORDINATION.
- ALL TELEPHONE/RADIO EQUIPMENT LAYOUT, SPECIFICATIONS, PERFORMANCE, INSTALLATION AND THEIR FINAL LOCATION ARE TO BE APPROVED BY PBMS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH THE WORK AND CLEARANCES REQUIRED BY OTHERS IN REGARDS TO SAID EQUIPMENT.
- ALL WORK PERFORMED AND MATERIALS SHALL MEET TRADE STANDARDS. AS A MINIMUM STANDARD, CONFORM WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES HAVING JURISDICTION. THE GENERAL CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK.
- ELECTRICAL SYSTEMS SHALL BE INSTALLED PER N.E.C. AND IN ACCORDANCE WITH ALL APPLICABLE UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS. SEE ELECTRICAL FOR NOTES AND/OR SPECIFICATIONS.
- GENERAL CONTRACTOR SHALL PROVIDE CONTINUOUS SUPERVISION WHILE ANY SUBCONTRACTORS OR WORKMEN ARE ON THE JOB SITE AND SHALL SUPERVISE AND DIRECT ALL WORK. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
- PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH UNIFORM BUILDING CODE (UBC) 1994 EDITION, ALONG WITH 1994 UPC, UMC, AND THE 1993 NEC.
- CONTRACTOR SHALL PROTECT ALL EXISTING FINISHES THAT ARE TO REMAIN. CONTRACTOR SHALL REPAIR ANY DAMAGE THAT OCCURS DURING CONSTRUCTION.
- DETAILS AND SCHEMATICS ARE TO PROPOSE AND SHOW THE END RESULT OF THE DESIGN. MINOR MODIFICATIONS MAY BE NECESSARY TO SUIT JOB CONDITIONS AND DIMENSIONS. SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
- VERIFY ALL FINAL EQUIPMENT LOCATIONS WITH PBMS OR SBA, INC.
- CLEANUP AND SAFETY: KEEP PROJECT AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND EQUIPMENT REMOVED AND NOT SPECIFIED AS REMAINING THE PROPERTY OF THE OWNER, ETC. LEAVE PREMISES IN A VACUUM AND BROOM CLEAN CONDITION: FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SYSTEMS EQUIPMENT IN A CLEAN WORKING ORDER UNTIL ACCEPTANCE OF THE PROJECT BY PACIFIC BELL MOBILE SERVICES (PBMS).
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REDLINING THE CONSTRUCTION PLANS TO ILLUSTRATE THE AS-BUILT CONDITION OF THE SITE. THIS WILL BE DONE AFTER THE SITE HAS BEEN AWARDED THE FINAL INSPECTION. TWO (2) COPIES OF REDLINED DWG. WILL BE PROVIDED TO PACIFIC BELL MOBILE SERVICES (PBMS) AND SBA, INC.



**SITE PLAN AND GENERAL NOTES**

SCALE: 1"=20'-0"

1

<b>PROPRIETARY INFORMATION</b> THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO PACIFIC BELL MOBILE SERVICES IS STRICTLY PROHIBITED.			
DATE: <b>OCTOBER 03, 1996</b>			
ARCHITECT: <b>THE BENTLEY COMPANY</b>			
DRAWN BY: <b>T.G.H.G.</b>			
CHECKED BY: <b>REMO</b>			
<b>REVISIONS</b>			
REV	DATE	DESCRIPTION	BY
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 <b>Mobile Services</b> 4420 ROSEWOOD DR. BLDG. 2, 4TH FLOOR PLEASANTON, CALIFORNIA 94588			
 <b>SBA Consulting Services, Inc.</b> Project Office: 2955 Redhill Avenue Costa Mesa, CA 92626 (714) 825-8052 (714) 825-8052			
 <b>THE BENTLEY COMPANY</b> Engineering-Architecture-Management 600 Aliso Boulevard, Suite 800 Aliso Viejo, CA 92656 Telephone: 714-334-1885 Facsimile: 714-334-1885 1777 Balboa Drive, Suite 300 Walnut Creek, CA 94598-5775 Telephone: 510-943-3300			
SITE NUMBER: <b>CM-196-18-PA1-BS3</b>			
SITE TYPE: <b>MONOPOLE ANTENNA INSTALLATION</b>			
LOCATION: <b>PRADO DAM 5695 GLENHAVEN AVE. RIVERSIDE, CA 92504</b>			
TITLE: <b>SITE PLAN AND GENERAL NOTES</b>			
SHEET NUMBER: <b>A-1</b>			

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E-1376

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DATE: OCTOBER 03, 1996

ARCHITECT: THE BENTLEY COMPANY

DRAWN BY: T.G. H.G.

CHECKED BY: [Signature]

REVISIONS			
REV	DATE	DESCRIPTION	BY

**PACIFIC BELL**  
 Mobile Services  
 4420 ROSEWOOD DR. BLDG. 2, 4TH FLOOR  
 PLEASANTON, CALIFORNIA 94588

**SBA**  
 SBA Consulting Services, Inc.  
 Project Office:  
 2955 Redhill Avenue  
 Fremont, CA 94538  
 (714) 825-8051  
 (714) 825-8052

**BENTLEY**  
 THE BENTLEY COMPANY  
 Engineering-Architecture-Management  
 6000 Wilshire Boulevard, Suite 500  
 Culver City, CA 90230  
 Fax: (310) 206-1688  
 Telephone: (310) 206-1688  
 1777 Beale Drive, Suite 330  
 Walnut Creek, CA 94597  
 Telephone: (510) 945-3500

SITE NUMBER: CM-196-18-PA1-BS3

SITE TYPE: MONOPOLE ANTENNA INSTALLATION

LOCATION: PRADO DAM 5895 GLENHAVEN AVE.

RIVERSIDE, CA 92504

TITLE: LEASE AREA PLAN AND SITE SECTION

SHEET NUMBER:

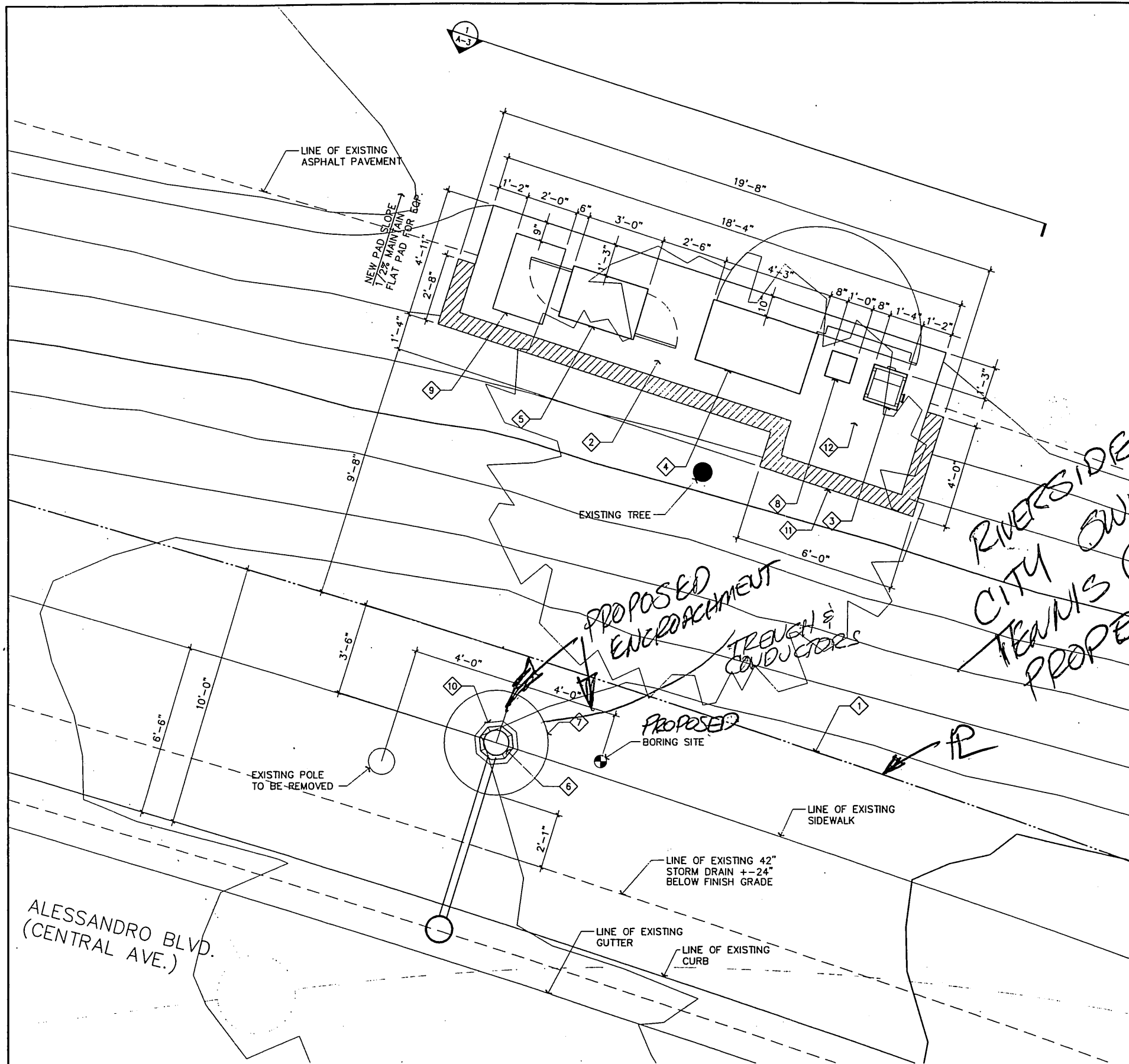
A-2

CONSTRUCTION NOTES:

- 1 RIGHT OF WAY LINE.
- 2 CONCRETE PAD FOR EQUIPMENT. SEE 1/A-4.
- 3 METER BREAKER PANEL.
- 4 PRIMARY BASE TRANSCEIVER STATION (BTS) (PROVIDED AND INSTALLED BY PBMS). SEE 2/A-3.
- 5 LNA CABINET. SEE 3/A-3.
- 6 NEW POLE WITH CYLINDER ANTENNA AND STREET LIGHT. SEE 3/A-4
- 7 NEW CONCRETE CAISSON FOUNDATION. SEE 2/A-4.
- 8 TELEPHONE CABINET.
- 9 PULL-BOX. SEE ELECTRICAL
- 10 EXISTING STREET LIGHT TO BE REMOVED.
- 11 RETAINING WALL. SEE 6/A-4.
- 12 REMOVE ASPHALT PAVING UNDER SLAB.

NOTE:

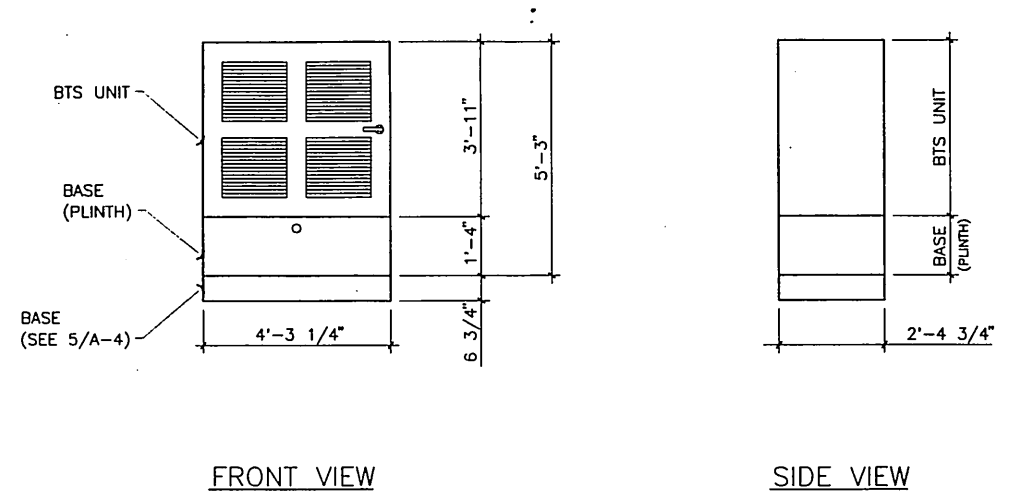
- 1. NO SEWER / WATER LATERALS OR WATER METERS WITHIN AREA OF ENCROACHMENT PERMITTED.
- 2. NO WORK SHALL OCCUR ON PRIVATE PROPERTY. ALL WORK SHALL BE CONFINED TO PUBLIC RIGHT-OF-WAY AND/OR CITY OWNED PROPERTY.
- 3. THE COLOR OF THE CONCRETE POLE SHOULD BE NATURAL GREY.
- 4. EQUIPMENT AND POLE SHOULD RECEIVE AN 'ANTI-GRAFFITI FINISH.
- 5. THE ARM OF THE STREET LIGHT SHOULD BE GALVANIZED STEEL.
- 6. NOTIFY AN UNDERGROUND UTILITY SERVICE BEFORE BORING ANY HOLES.



LEASE AREA PLAN

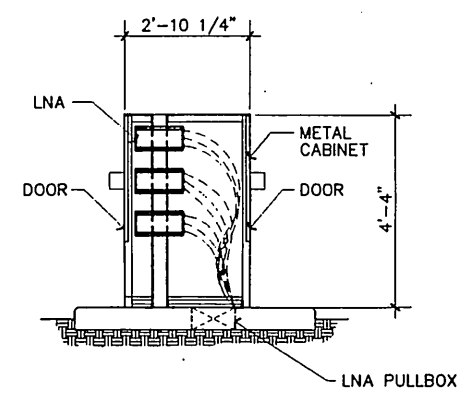
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10/24/96  
09/24/1996  
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BTS CABINET ELEVATION

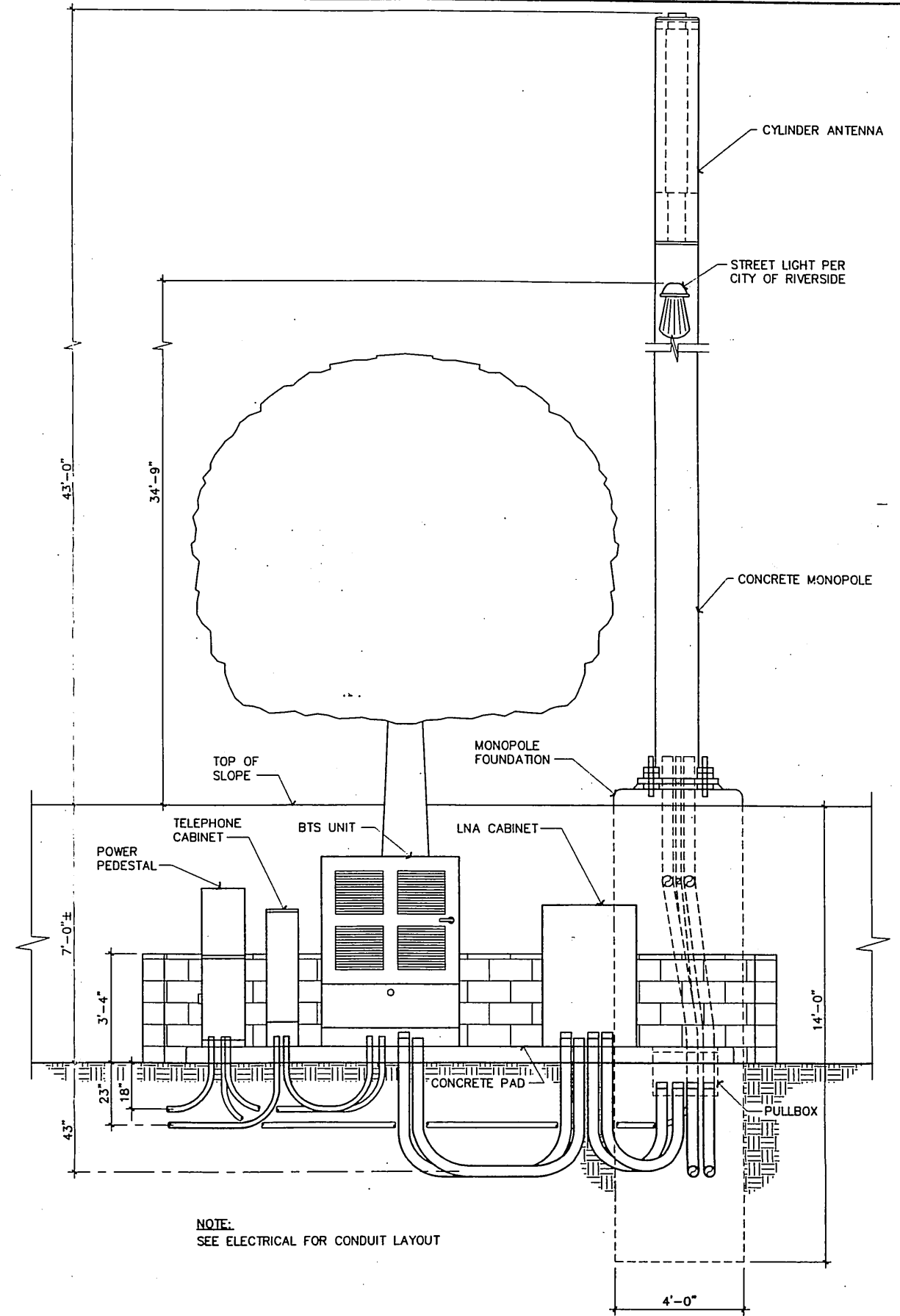
SCALE: 1/2"=1'-0" 2



NOTE:  
ALL SHEET METAL SEAMS AND JOINTS  
SHALL BE WELDED CONNECTION GROUND  
SMOOTH.

LNA CABINET ELEVATION

SCALE: 1/2"=1'-0" 3



SOUTH ELEVATION

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

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DATE: OCTOBER 03, 1996  
ARCHITECT: THE BENTLEY COMPANY  
DRAWN BY: T.G. / T.G.  
CHECKED BY: [Signature]

REV	DATE	DESCRIPTION	BY
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**PACIFIC BELL**  
Mobile Services  
4420 ROSEWOOD DR. BLDG. 2, 4TH FLOOR  
PLEASANTON, CALIFORNIA 94588

**SBA** Consulting Services, Inc.  
Project Office:  
2955 Redhill Avenue  
Costa Mesa, CA 92626  
(714) 825-8852

**THE BENTLEY COMPANY**  
Engineering-Architecture-Management  
600 Alton Boulevard, Suite 650  
Walnut Creek, CA 94595  
Telephone: 714-931-1800  
17777 Bolsho Drive, Suite 350  
Walnut Creek, CA 94506-5176  
Facsimile: 916-931-3300  
Telex: 916 931 3300

SITE NUMBER:  
**CM-196-18-PA1-BS3**

SITE TYPE:  
**MONOPOLE ANTENNA  
INSTALLATION**

LOCATION:  
**PRADO DAM  
5695 GLENHAVEN AVE.  
RIVERSIDE, CA 92504**

TITLE:  
**ELEVATIONS**

SHEET NUMBER:  
**A-3**

17:19  
09/13/1996  
R:\JOB-C\6240-93\19618A31

E-1376



E-1376

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DATE: OCTOBER 03, 1996  
 ARCHITECT: THE BENTLEY COMPANY  
 DRAWN BY: T.G.K.G.  
 CHECKED BY: [Signature]

REVISIONS			
REV	DATE	DESCRIPTION	BY

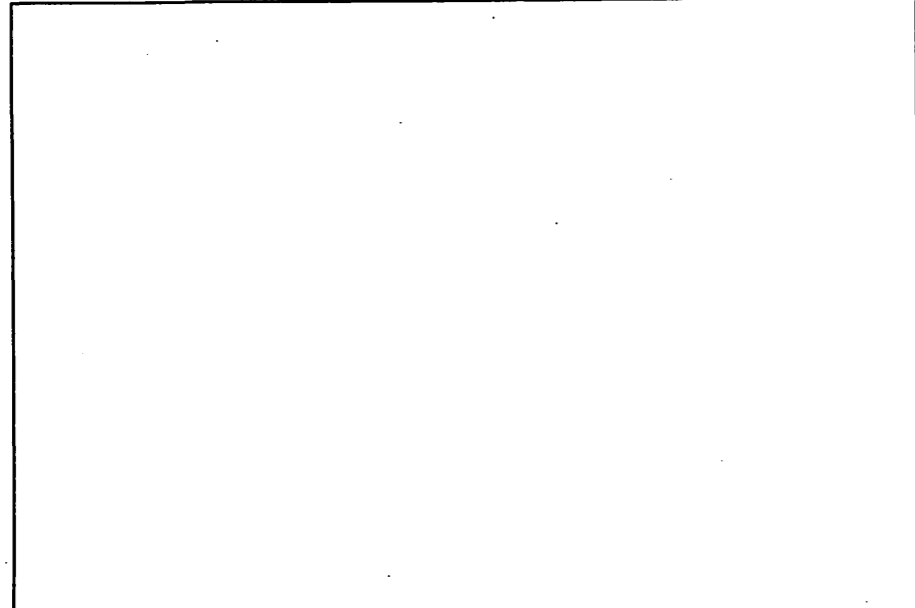
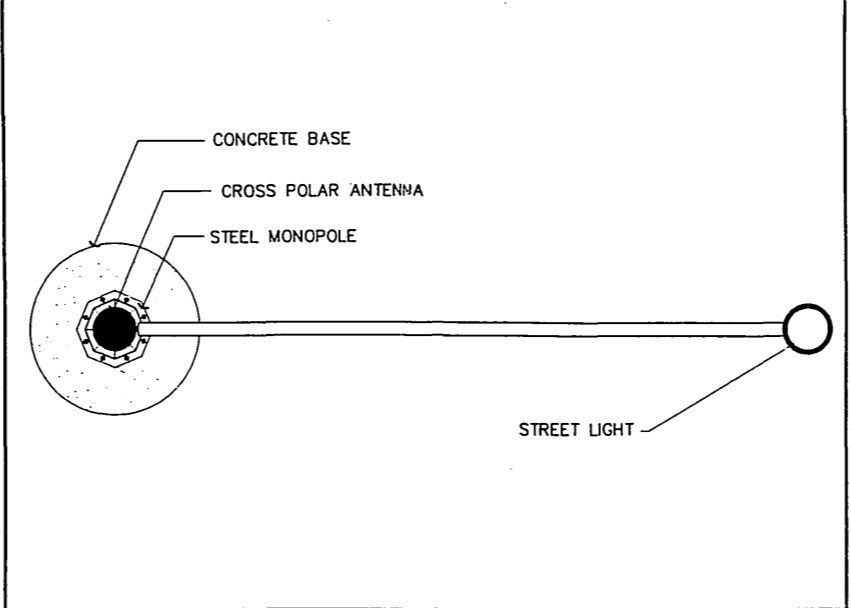
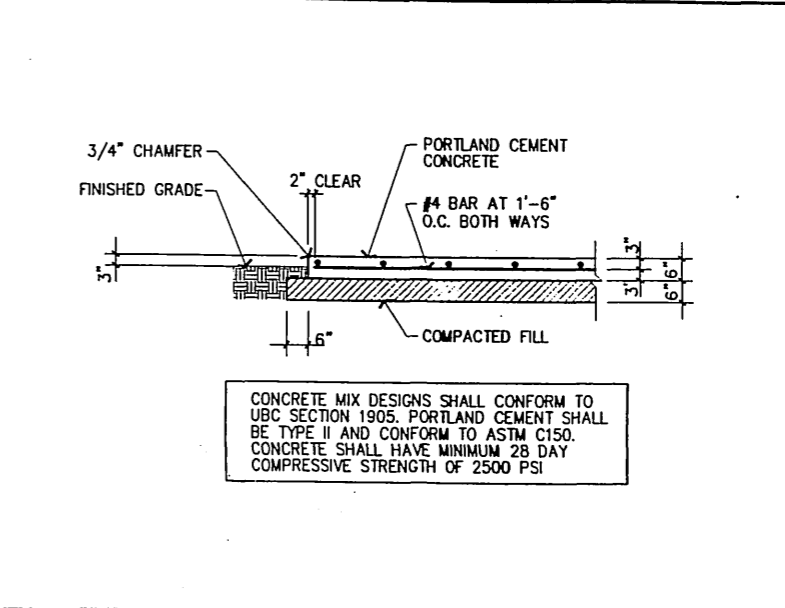
**PACIFIC BELL**  
 Mobile Services  
 4420 ROSEWOOD DR. BLDG. 2, 4TH FLOOR  
 PLEASANTON, CALIFORNIA 94588

**SBA** Consulting Services, Inc.  
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 1772 Brakley Drive, Suite 350  
 Walnut Creek, CA 94598-5178  
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 Telephone: 510 945-3500

SITE NUMBER:  
**CM-196-18-PA1-BS3**  
 SITE TYPE:  
**MONOPOLE ANTENNA INSTALLATION**  
 LOCATION:  
**PRADO DAM  
 5695 GLENHAVEN AVE.  
 RIVERSIDE, CA 92504**  
 TITLE:  
**DETAILS**

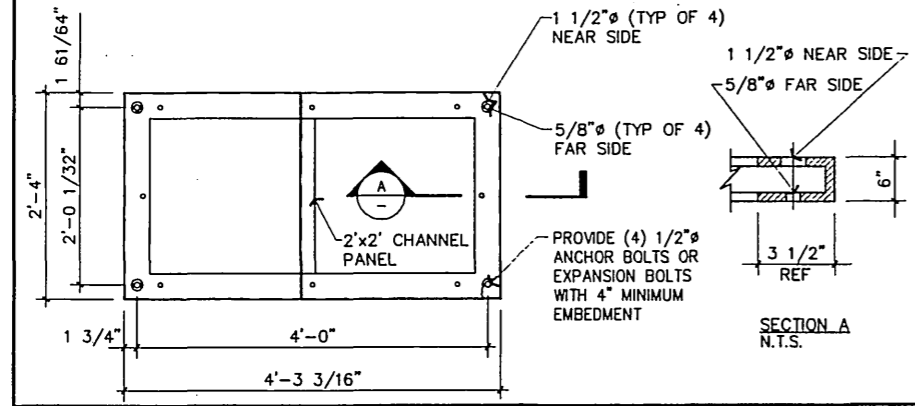
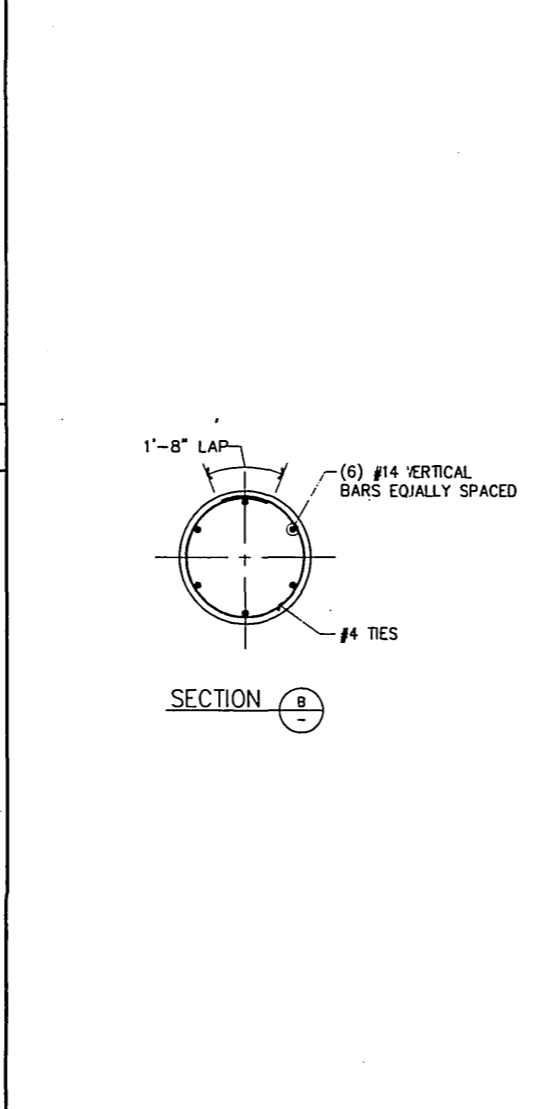
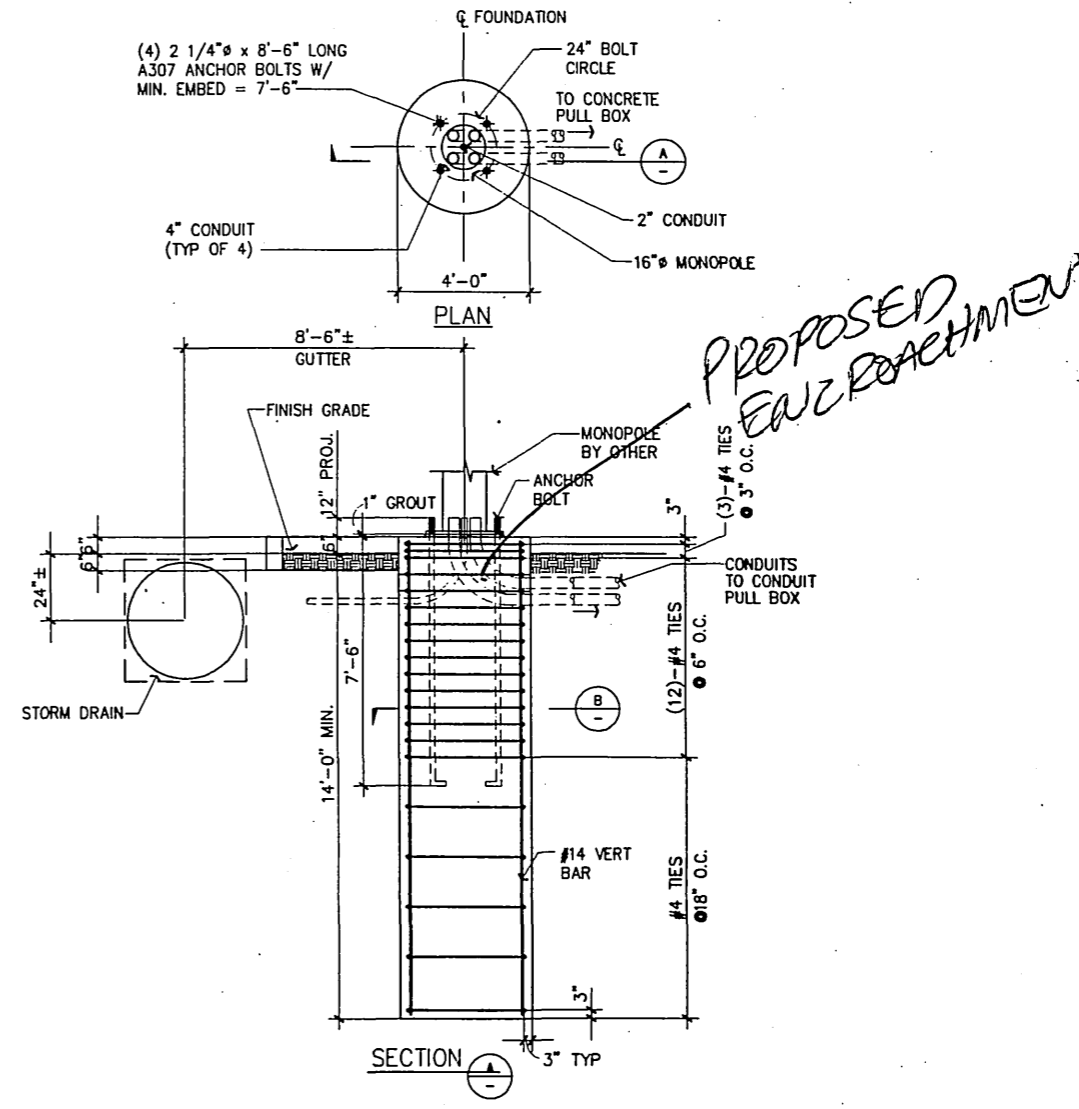
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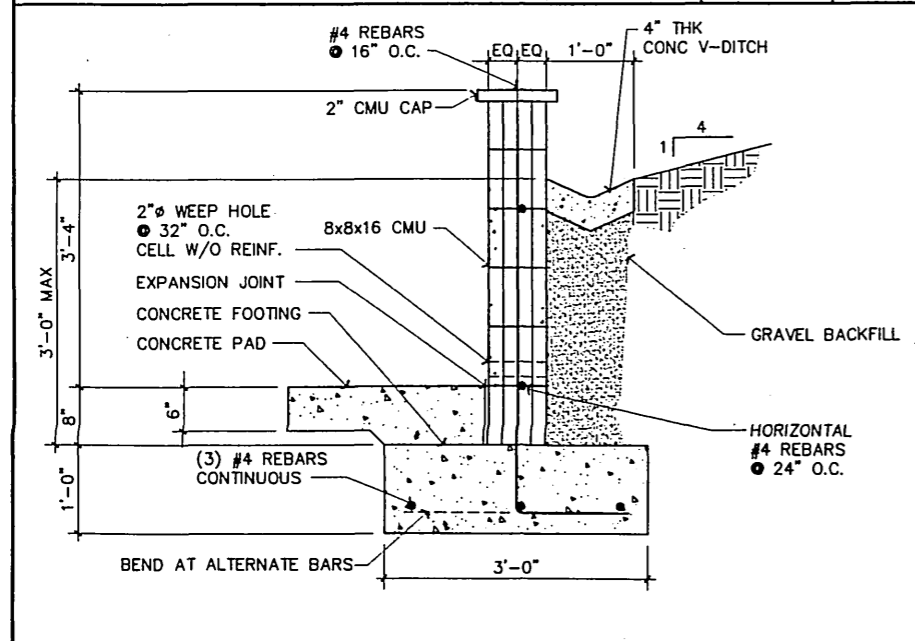
TYPICAL PAD DETAIL SCALE: 1/2"=1'-0" 1

ANTENNA PLAN VIEW SCALE: 1/2"=1'-0" 3

NOT USED SCALE: 4



BTS BASE DETAIL SCALE: 1"=1'-0" 5



RETAINING WALL SCALE: 1"=1'-0" 6

MONOPOLE FOUNDATION SCALE: 3/8"=1'-0" 2

15:14 10/03/1996 R:\JOB-C\6240-93\19618A41

- CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN EXCAVATING AND TRENCHING ON THIS SITE TO AVOID EXISTING DUCT, PIPING, OR CONDUITS, ETC., AND TO PREVENT HAZARD TO PERSONNEL AND/OR DAMAGE TO EXISTING UNDERGROUND UTILITIES OR STRUCTURES. THE ENGINEER IS NOT RESPONSIBLE FOR THE LOCATION OF UNDERGROUND STRUCTURES, WHETHER OR NOT SHOWN, DETAILED AND INSTALLED BY THIS OR ANY OTHER CONTRACTORS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER SHOULD SUCH UNIDENTIFIED CONDITIONS BE DISCOVERED. THESE DRAWINGS AND SPECIFICATIONS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
- REFER TO CIVIL DRAWINGS AND VISIT SITE PRIOR TO WORK TO REVIEW EXISTING TOPOGRAPHY MAPS, LANDSCAPING AND CONSTRUCTION TO BECOME FAMILIAR WITH SLOPE CONDITIONS AND EXISTING CONSTRUCTION AND LANDSCAPING. ADJUST CONDUIT ROUTING INDICATED TO AVOID DISTURBING EXISTING CONSTRUCTION WHERE POSSIBLE. SAWCUT EXISTING CONSTRUCTION WHERE REQUIRED FOR CONDUIT AND STRUCTURE INSTALLATION AND PATCH TO MATCH EXISTING. REPAIR OR REPLACE ALL SOO, LANDSCAPING, SPRINKLER SYSTEMS, CONDUITS AND WIRING, PIPING, ETC., DAMAGED BY THE ELECTRICAL WORK TO MATCH EXISTING AND TO MAKE SYSTEMS OPERABLE.
- ALL WORK IS TO COMPLY WITH THE 1993 EDITION OF NATIONAL ELECTRICAL CODE (N.E.C.) AND ANY LOCAL ORDINANCES HAVING JURISDICTION.
- ALL EQUIPMENT TO BE UNDERWRITERS LABORATORIES (U.L.) LISTED.
- ALL WIRING SHALL BE COPPER WITH THHN / THWN DUAL RATED 600 VOLTS INSULATION.
- SERVICE EQUIPMENT SHALL HAVE A SHORT CIRCUIT WITHSTAND RATING EQUAL TO OR EXCEEDING THE MAXIMUM AVAILABLE FAULT CURRENT AT SUPPLY TERMINAL.
  - METER SOCKET, MAIN BREAKER, MANUAL TRANSFER SWITCH AND PANEL BOARD SHALL BE RATED FOR AVAILABLE FAULT CURRENT. DEVICES TO MATCH EXISTING MANUFACTURER. (NOT LESS THAN 10 K.A.I.C.)
- THE ELECTRIC UTILITY STRUCTURES SHOWN ARE FOR BIDDING AND PERMIT APPLICATION PURPOSES ONLY. COORDINATE WITH THE CITY OF RIVERSIDE, PUBLIC UTILITIES ELECTRIC DIVISION; DAVE BRIDE (909-782-5471) FOR ACTUAL CONSTRUCTION PLANS, SPECIFICATIONS AND SERVICE CHARGES. COORDINATE WITH THE UTILITY INSPECTOR (909-782-5429) PRIOR TO INSTALLATION OF FACILITIES AND BACKFILLING.
- SERVICE CONDUITS SHALL HAVE NO MORE THAN (2) -90 BENDS -PROVIDE PULLBOX(ES) AS REQUIRED.
- ALL ELECTRICAL EQUIPMENT SHALL BE ANCHORED TO WITHSTAND 80 M.P.H. WIND SPEED DESIGNED FOR EXPOSURE C.
- ALL COAX, POWER AND TELEPHONE SYSTEM CONDUITS SHALL HAVE MINIMUM 24" RADIUS SWEEPS TO EQUIPMENT, PULLBOXES, MONOPOLE, ETC. U.O.N., OR AS REQUIRED BY UTILITY COMPANIES.
- ALL PVC CONDUIT RUNS SHALL BE SCHEDULE 40.
- THE MAIN ELECTRIC PANEL SWITCHGEAR SHALL CONFORM TO THE EUSERC/CITY OF RIVERSIDE REQUIREMENTS. PRIOR TO MANUFACTURING, THE MAIN ELECTRIC PANEL SWITCHGEAR DRAWINGS SHALL BE APPROVED BY THE CITY OF RIVERSIDE, PUBLIC UTILITIES ELECTRIC DIVISION. SEND APPROVAL DRAWINGS TO:
 

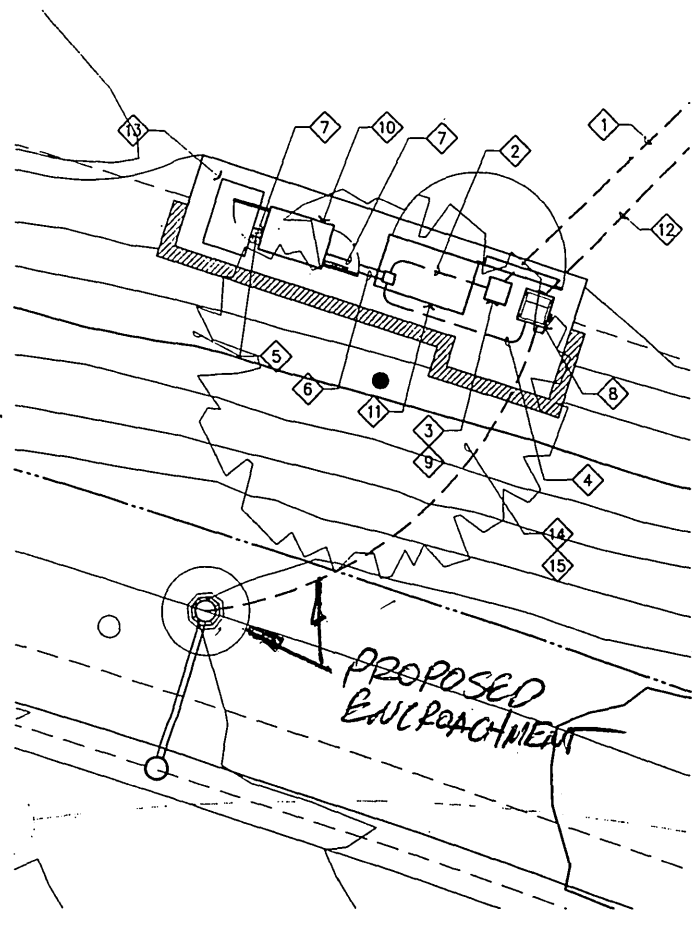
AREA SERVICE PLANNER: DAVE BRIDE  
ELECTRIC ENGINEERING 4TH FLOOR  
3900 MAIN ST.  
RIVERSIDE CA 92522

### GENERAL NOTES

SCALE:  
N.T.S.      2

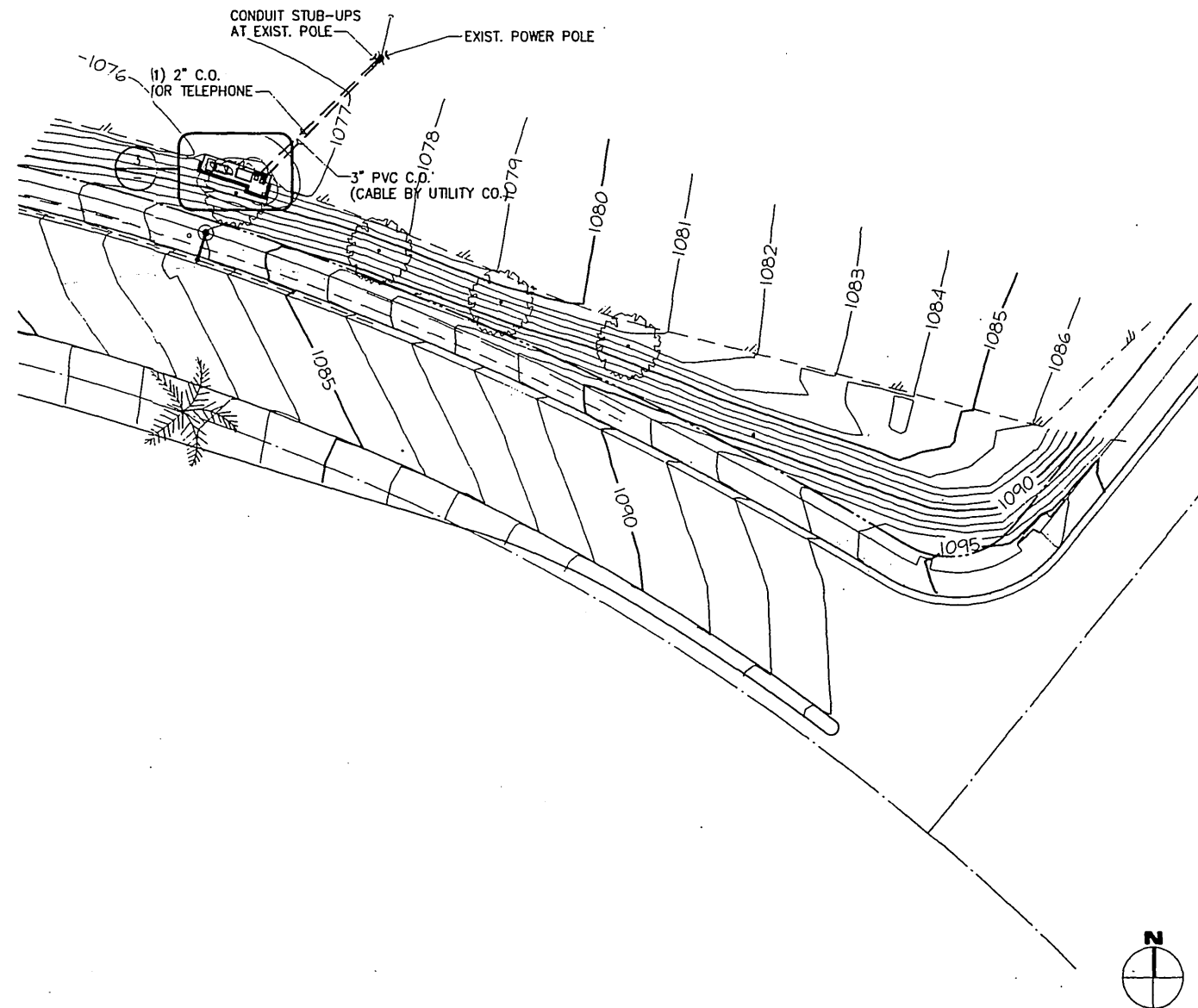
#### CONSTRUCTION NOTES:

- (1) 2" C.O. FOR TELEPHONE ROUTE CONDUIT TO EXISTING POLE
- (1) 2" C.O.
- FIELD TO VERIFY TELEPHONE CONNECTION DELETE TELEPHONE BOX AND RUN 2" CONDUIT DIRECT TO BTS IF CONNECTION IS FIBEROPTIC.
- (1) 1 1/2" C-(3)#8 + (1)#2/0 GND.
- (4) 4" C.O.
- (3) 4" C.O.
- (1) 1" C-(1)#2/0 GND
- POWER PEDESTAL
- TELEPHONE BOX
- LNA CABINET-36"L x 24"W
- BTS
- 3" PVC C.O. PER UTILITY COMPANY REQUIREMENT. ROUTE CONDUIT TO EXISTING POLE.
- PULL BOX - 24" x 36".
- (1) 1" C-(2)#12 + (1)#12 GND. FOR UNMETERED LIGHTING CIRCUIT (SPlice IN UTILITY SERVICE CONDUIT SECTION OF POWER PEDESTAL)
- PROVIDE A DOUBLE POLE FUSE HOLDER AND (2) 20A FUSES AT BASE OF LIGHT POLE FOR LIGHTING CIRCUIT PROTECTION.



### LEASE AREA DETAIL

SCALE:  
1/4"=1'-0"      3



### SITE PLAN

SCALE:  
1"=20'-0"      1

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DATE: OCTOBER 03, 1996  
ARCHITECT: THE BENTLEY COMPANY  
DRAWN BY: FRANK FORTI  
CHECKED BY: [Signature]

REVISIONS			
REV	DATE	DESCRIPTION	BY
△			
△			
△			
△			
△			

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(714) 825-8052

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Irvine, California 92614  
Facsimile: 949-451-3500  
Telephone: 949-451-3500

SITE NUMBER:  
CM-196-18-PA1-BS3

SITE TYPE:  
MONOPOLE ANTENNA  
INSTALLATION

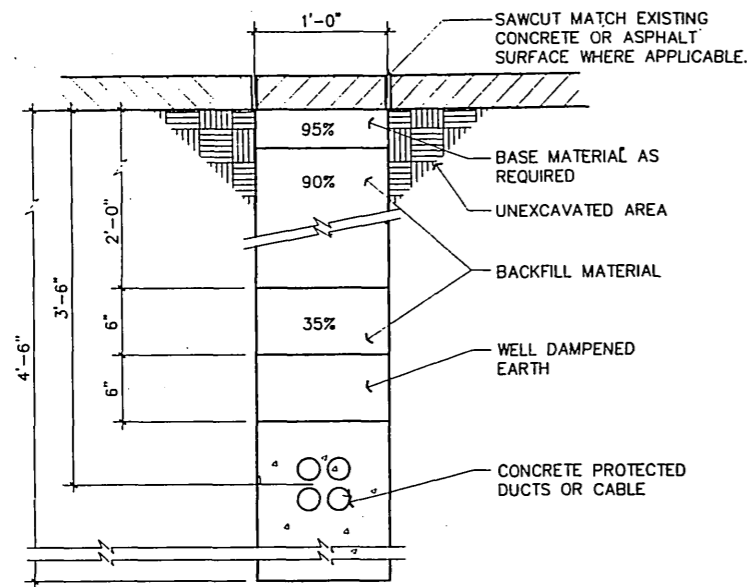
LOCATION:  
PRADO DAM  
5695 GLENHAVEN AVE.  
RIVERSIDE, CA 92504

TITLE:  
SITE PLAN AND  
LEASE AREA DETAIL

SHEET NUMBER:  
**E-1**

18.36  
08/13/1996  
R:\JOB-C\6240-93\1961BE12

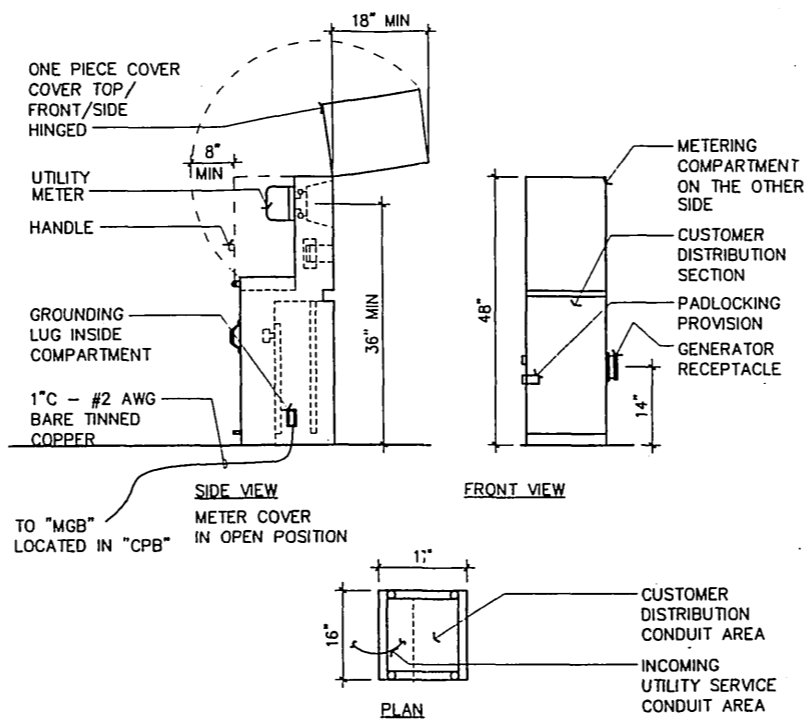
E-1376



COAX CONDUIT TRENCH

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

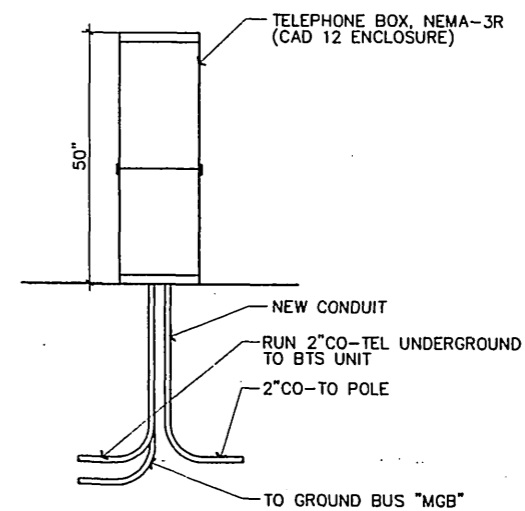
5



METER / POWER PEDESTAL

SCALE: N.T.S.

3



TELEPHONE BOX

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

1

IN NEMA 3R ENCLOSURE (PEDESTAL) WITH PAD LOCKABLE DOOR.

**PANEL A**

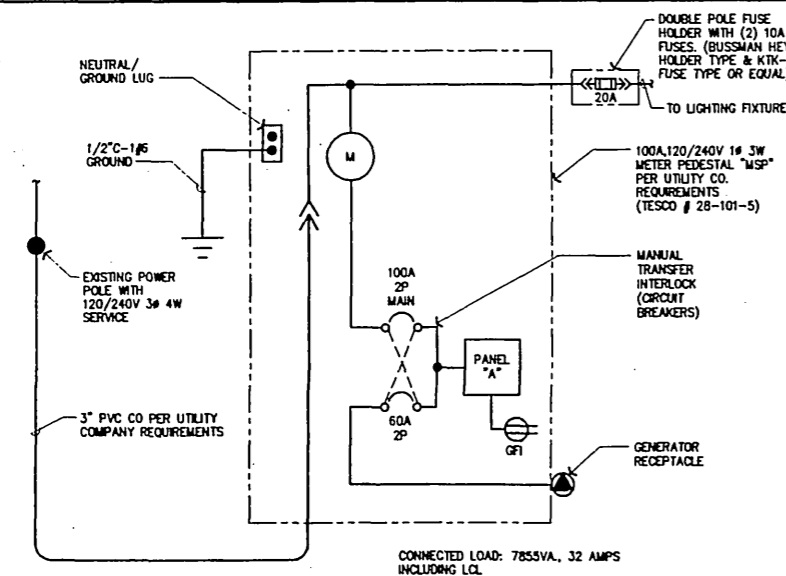
MOUNTING IN METER PEDESTAL MAIN 100A  
120/240 VOLTS 1 PHASE 3 WIRE A.I.C. RATING 10,000 BUS 100A

LOCATION	WATTAGE		L T G	M I S C	B R K	C R I C	C R I C	B R K	M I S C	L T G	WATTAGE		LOCATION
	L1	L2									L1	L2	
BTS #1	3070				1	40	1	2	40	1			SPARE
RECEPTACLE	180	3070			1	2	3	4	2				SPARE

PANEL SCHEDULE

SCALE: N.T.S.

6



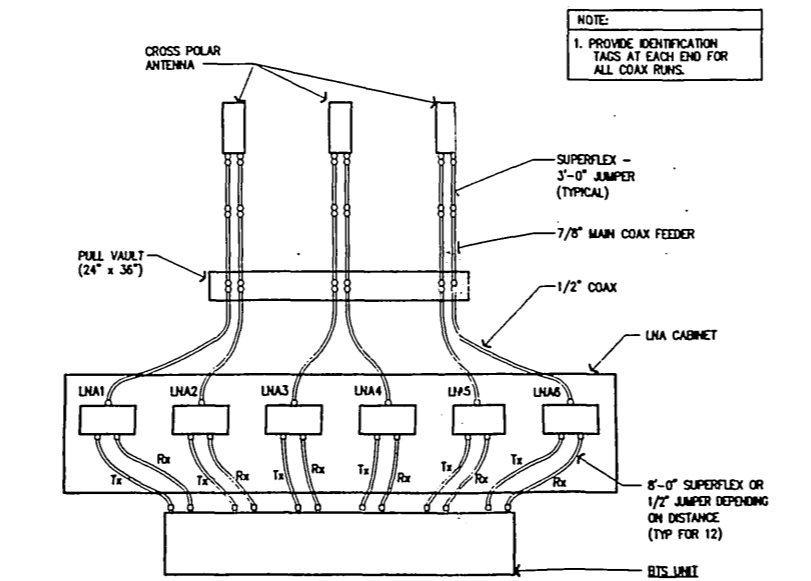
SINGLE LINE DIAGRAM

SCALE: N.T.S.

7

**ANTENNA AND COAX CABLE SCHEDULE**

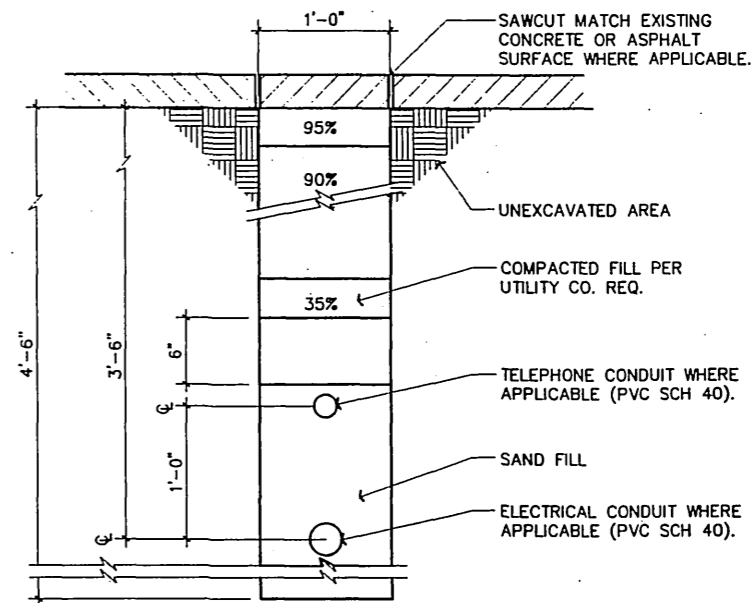
ANTENNA MARK	SECTOR	ANTENNA	COAX CABLE FEED LOCATION	AZIMUTH	COAX SIZE	DISTANCE
A	1	CROSS POLAR	1/2" JUMPER FROM LNA ANTENNA	301-50°		70'-0"
B	2	CROSS POLAR		61-180°		70'-0"
C	3	CROSS POLAR		181-300°		70'-0"



COAX CABLE RISER DIAGRAM

SCALE: N.T.S.

4



ELEC/TELCO TRENCH

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

2

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DATE: OCTOBER 03, 1996  
ARCHITECT: THE BENTLEY COMPANY  
DRAWN BY: *pan DE / Fan DE*  
CHECKED BY: *PL/ep*

REVISIONS			
REV	DATE	DESCRIPTION	BY

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SITE NUMBER:  
**CM-196-18-PA1-853**

SITE TYPE:  
**MONOPOLE ANTENNA INSTALLATION**

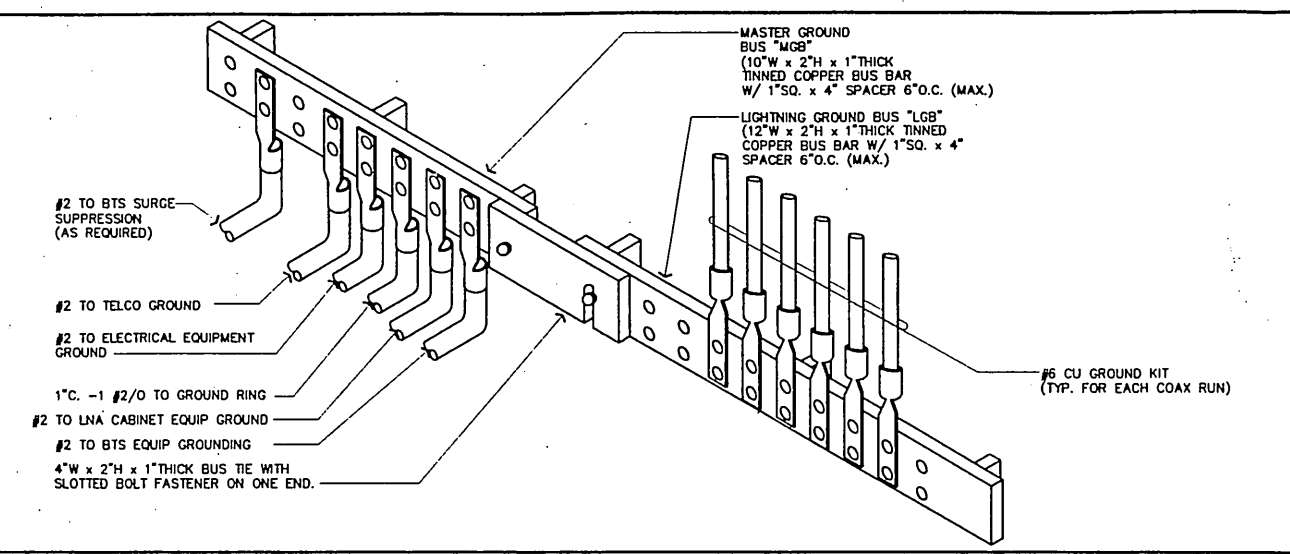
LOCATION:  
**PRADO DAM  
5695 GLENHAVEN AVE.  
RIVERSIDE, CA 92504**

TITLE:  
**SINGLE LINE DIAGRAM,  
AND DETAILS**

SHEET NUMBER:

**E-2**

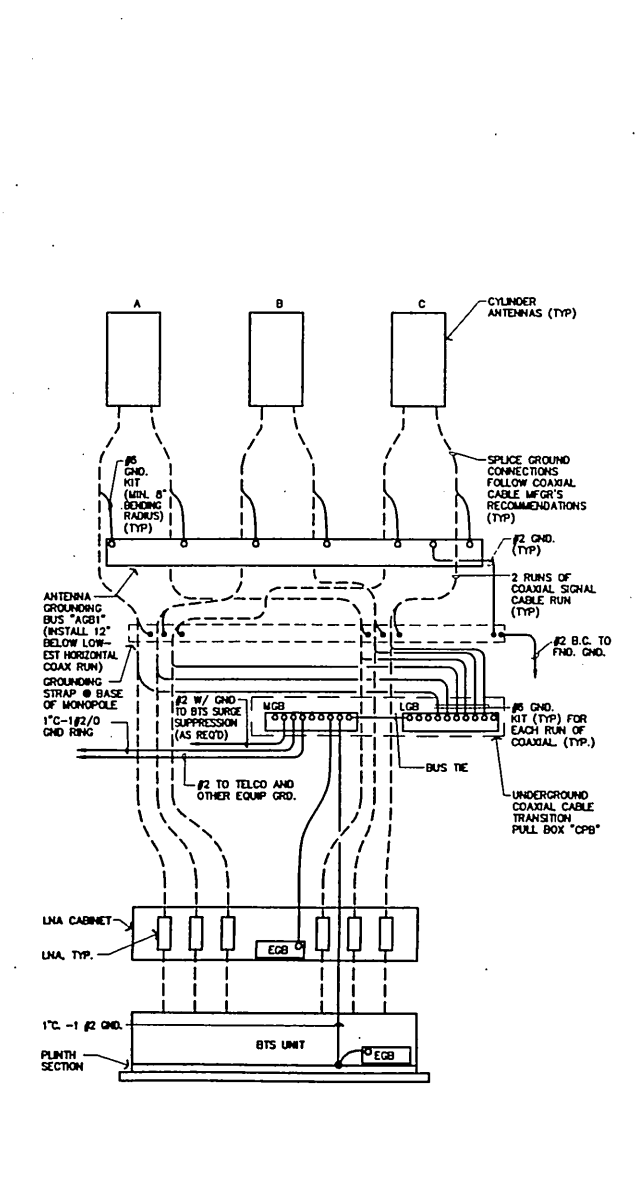
E-1376



MASTER GROUNDING & LIGHTNING GROUNDING BUS SCALE: N.T.S. 4

- ALL DETAILS ARE SHOWN IN GENERAL TERMS. ACTUAL GROUNDING INSTALLATION AND CONSTRUCTION MAY VARY DUE TO SITE SPECIFIC CONDITIONS.
- GROUND ALL ANTENNA BASES, FRAMES, CABLE RUNS, AND OTHER METALLIC COMPONENTS USING #2 GROUND WIRES AND CONNECT TO SURFACE MOUNTED GROUND BUS BARS AS SHOWN. FOLLOW ANTENNA AND BTS MANUFACTURER'S PRACTICES FOR GROUNDING REQUIREMENTS. GROUND COAX SHIELD AT BOTH ENDS USING MANUFACTURER'S PRACTICES. -ALL UNDERGROUND WATER PIPES, METAL CONDUITS AND GROUNDS THAT ARE A PART OF THIS SYSTEM SHALL BE BONDED TOGETHER.
- ALL GROUND CONNECTIONS SHALL BE #2 AWG U.O.N. ALL WIRES SHALL BE COPPER THHN/THWN. ALL GROUND WIRE SHALL BE TIN COATED OR GREEN INSULATED WIRE.
- CONTRACTOR TO VERIFY AND TEST GROUND TO SOURCE TO A RANGE OF 5 TO 10 OHMS MAXIMUM. PROVIDE 5/8" ROUND x 8' LONG COPPER GROUNDING ROD(S) ONLY AS REQUIRED TO ACHIEVE SPECIFIED OHMS READING. CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE GROUNDING CONDUCTOR FROM THE ANTENNA TO GROUNDING POINT. GROUNDING AND OTHER OPTIONAL TESTING WILL BE WITNESSED BY THE PBMS REPRESENTATIVE.
- NOTIFY ARCHITECT/ENGINEER IF THERE ARE ANY DIFFICULTIES INSTALLING GROUNDING SYSTEM DUE TO SITE SOIL CONDITIONS.
- BARE GROUNDING CONDUCTOR SHALL BE HARD DRAWN TINNED COPPER SIZES AS NOTED ON PLAN.
- ALL HORIZONTALLY RUN GROUNDING CONDUCTORS SHALL BE INSTALLED MINIMUM 30" BELOW GRADE IN TRENCH, U.O.N., AND BACK FILL SHALL BE COMPACTED.
- ALL 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 NO. 6 TINNED COPPER CONDUCTOR AND (2)-HOLE COMPRESSION CONNECTOR AT BUS.
- ACCEPTABLE CONNECTIONS FOR GROUNDING SYSTEM SHALL BE:
  - BURNDY, HY-GRADE U.L. LISTED CONNECTORS (MECHANICAL CONNECTIONS).
  - CADWELD, EXOTHERMIC WELDS (WELDED CONNECTIONS).
  - TWO -(2) HOLE TINNED COPPER COMPRESSION FITTINGS (BUS BAR CONNECTIONS).
- ALL CRIMPED CONNECTIONS SHALL HAVE EMBOSSED MANUFACTURER'S DIEMARK VISIBLE AT CRIMP.
- ALL GROUND CONNECTIONS SHALL BE BURNISHED AND SHALL HAVE A COATING OF "KOPR-SHIELD" OR "NO-OX-ID" APPLIED TO THE CONNECTION.
- ALL CONNECTION HARDWARE AT EQUIPMENT SHALL BE TYPE 316 SS, OR DURIEM BRONZE. "KOPR-SHIELD" OR "NO-OX-ID" APPLIED TO THE CONNECTION.
- THE GROUND RING SHALL BE INSTALLED 24" MINIMUM BEYOND ANY BUILDING DRIP LINE.

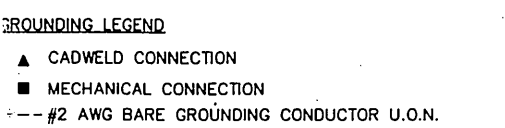
GENERAL NOTES SCALE: N.T.S. 7



GROUNDING DIAGRAM SCALE: N.T.S. 6

GROUNDING PLAN KEYED NOTES

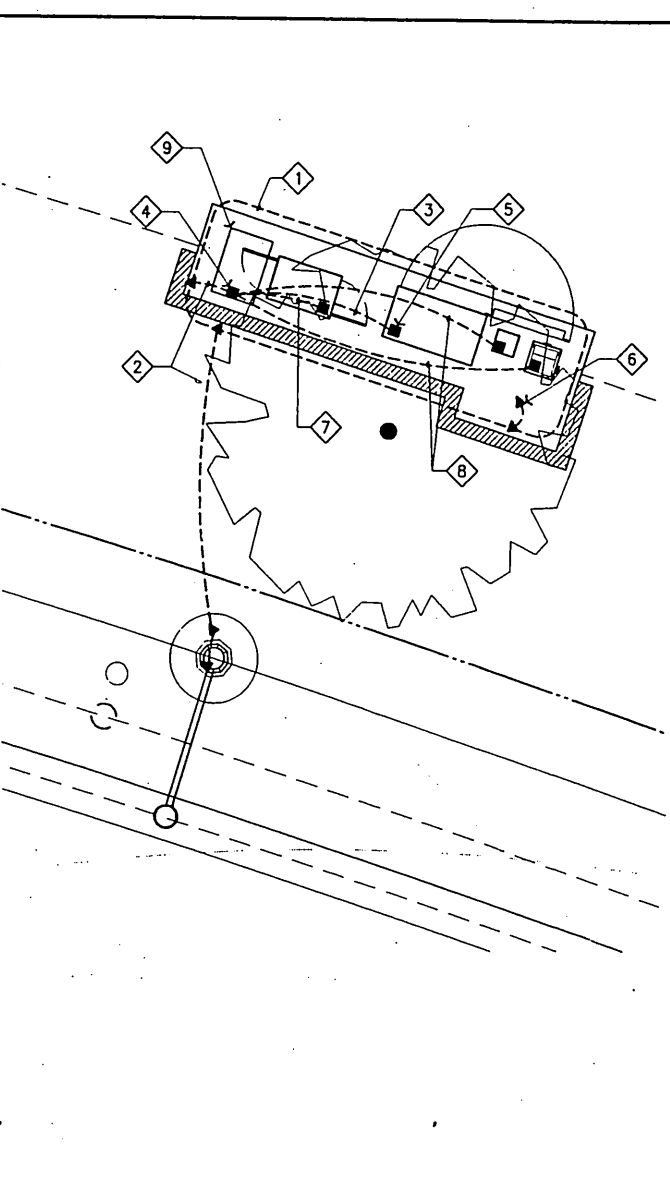
- EXTERNAL GROUND RING, #2/O TINNED BARE CU. WIRE AT 2'-6" BELOW GRADE.
- 1" C-(1)#2/O CU. GROUND.
- GROUND FROM INTERNAL BTS EQUIPMENT GROUND BAR (EGB) TO MGB LOCATED INSIDE PULLBOX "CPB" GROUNDING LINE RUN INSIDE OF 1" CONDUIT.
- MASTER GROUND BUS (MGB) & LIGHTNING GROUNDING BUS (LGB) GROUND MOUNTED INSIDE PULLBOX "CPB".
- EQUIP GROUND BAR (EGB) LOCATED INSIDE OF PRIMARY BTS CABINET.
- CONNECTION TO FOUNDATION STEEL.
- GROUND FROM INTERNAL LNA CABINET EQUIPMENT GROUND BAR (EGB) TO MGB LOCATED INSIDE PULLBOX "CPB". GROUNDING LINE RUN INSIDE OF 1" CONDUIT.
- 1" C-(1)#2 CU. GROUND.
- UNDERGROUND COAXIAL CABLE TRANSITION PULLBOX "CPB".



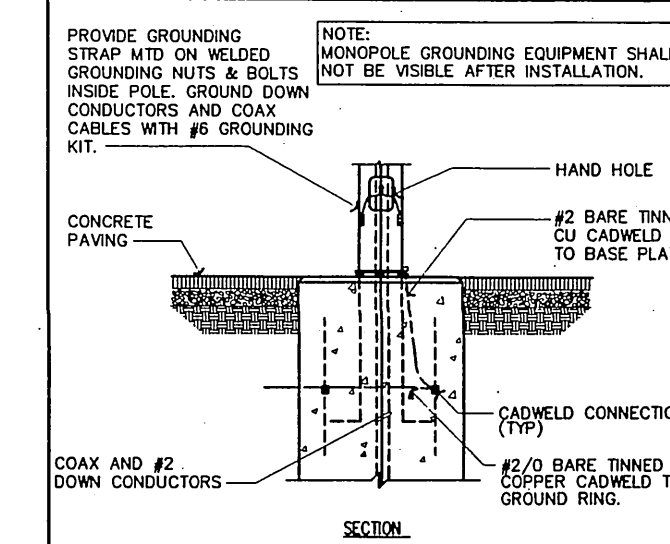
GROUNDING PLAN



NOT USED SCALE: N.T.S. 3



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



MONOPOLE GROUND SCALE: 3/8"=1'-0" 2

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DATE: OCTOBER 03, 1996

ARCHITECT: THE BENTLEY COMPANY

DRAWN BY: [Signature]

CHECKED BY: [Signature]

REV	DATE	DESCRIPTION	BY
▲			
▲			
▲			
▲			
▲			

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1777 Borello Drive, Suite 350  
Walnut Creek, CA 94595-5178  
Telephone: 916-945-3500

SITE NUMBER: CM-196-18-PA1-BS3  
SITE TYPE: MONOPOLE ANTENNA INSTALLATION  
LOCATION: PRADO DAM 5895 GLENHAVEN AVE. RIVERSIDE, CA 92504  
TITLE: GROUNDING PLAN, NOTES AND DETAILS  
SHEET NUMBER: E-3

16 JAN 1996  
06 13/1996  
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