

# CITY OF RIVERSIDE

## DEPT. OF PARKS AND RECREATION

# BASEBALL FIELD LIGHTING

## VILLEGAS PARK - BUNKER STREET FIELD

### 7240 MARGUERITA ST. RIVERSIDE, CA

- THE CONTRACTOR SHALL PROTECT PROPERTY AND FACILITIES ADJACENT TO THE CONSTRUCTION AREA AND ALL PROPERTY AND FACILITIES WITHIN THE CONSTRUCTION AREA.
- THE CONTRACTOR SHALL RESTORE ALL PUBLIC OR PRIVATELY OWNED IMPROVEMENTS AND FACILITIES (I. E., LANDSCAPING, FENCES, UTILITY LINES, STRUCTURES, IRRIGATION/SPRINKLERS, ETC.) TO THEIR ORIGINAL CONDITION PRIOR TO PROJECT COMPLETION AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL RESTORE THESE ITEMS AT HIS OWN EXPENSE. IN THE EVENT IMPROVEMENTS OR FACILITIES ARE DAMAGED, THEY SHALL BE REPLACED WITH NEW MATERIALS EQUAL TO THE ORIGINAL.
- THE CONTRACTOR SHALL PROTECT ANY EXISTING IRRIGATION SYSTEM IN PLACE WHERE POSSIBLE. IF THE LOCATION OF IRRIGATION LINES IS IN CONFLICT WITH THE PROPOSED CONCRETE PAD, THE CONTRACTOR SHALL NOTIFY THE CITY TO COORDINATE THE RELOCATION OF THE IRRIGATION LINES AND HEADS. THE RELOCATION IS TO BE DONE BY CITY FORCES.
- ALL COSTS TO THE CONTRACTOR FOR LANDSCAPING AND IRRIGATION WORK REPAIR SHALL BE INCLUDED IN THE CONTRACT PRICE AND INCLUDE FULL COMPENSATION FOR FURNISHING ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT, AND PERFORMING ALL WORK NECESSARY TO COMPLETE AND MAINTAIN THE LANDSCAPING AND IRRIGATION WORK. NO ADDITIONAL COMPENSATION WILL BE ALLOWED THEREFOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES AS A RESULT OF HIS OPERATIONS. THE LOCATION OF EXISTING UTILITIES, AS SHOWN ON THE PLANS, WAS OBTAINED FROM SEARCH OF AVAILABLE RECORDS. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO NOTIFY UNDERGROUND SERVICE ALERT TO DETERMINE EXACT FIELD LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN ON THE PLANS WHICH MAY CONFLICT WITH HIS OPERATIONS. POT-HOLDING OF EXISTING UTILITIES WILL BE REQUIRED TO DETERMINE EXACT DEPTH AND FIELD LOCATIONS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

- ⊕ POLE MOUNTED LIGHT FIXTURE - REFER TO DETAILS FOR QUANTITY OF LAMPS.
- ⊖ DUPLEX RECEPTACLE, WALL MOUNTED  $\phi + 15"$  A.F.F. OR AS NOTED.
- ⊕ QUADPLEX RECEPTACLE, WALL MOUNTED  $\phi + 15"$  A.F.F. OR AS NOTED.
- ⊙ JUNCTION BOX, ACCESSIBLE AND MOUNTED FOR THE APPLICATION DENOTED ON PLANS.
- ⊙ JUNCTION BOX, WALL MOUNTED. FIELD VERIFY MOUNTING HEIGHT PRIOR TO ROUGH-IN.
- ⊖ FLUSH MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
- ⊖ SURFACE MOUNTED ELECTRICAL PANELBOARD OR LOAD CENTER. REFER TO PANEL SCHEDULE.
- ⊖ DISTRIBUTION SWITCHBOARD REFER TO SINGLE LINE DIAGRAM.
- T TRANSFORMER, REFER TO SINGLE LINE DIAGRAM.
- F FUSED DISCONNECT SWITCH - HP RATED WITH FUSES PER EQUIPMENT MANUFACTURER AND WEATHERPROOF AS REQUIRED.
- ⊖ GROUND CONNECTION, SIZE AS INDICATED OR AS REQUIRED.
- ⊕ SINGLE POLE WALL SWITCH, 448" A.F.F., SUBSCRIPTS AT SYMBOL INDICATE THE FOLLOWING.
 

2 - DOUBLE POLE	P - PILOT LIGHT
3 - THREE WAY	R - REMOTE CONTROL SWITCH
4 - FOUR WAY	M - MOTOR STARTING SWITCH
K - KEY OPERATED	RL - ROTARY LOCK KEY TYPE SWITCH
	PB - PUSHBUTTON
- a,b,c, ETC.-IDENTIFICATION OF OUTLETS CONTROLLED AND NUMBER OF SWITCHES AT LOCATION.
- P PULLBOX, CONCRETE W/ BOLT ON COVER, SIZED PER N.E.C. OR AS NOTED.
- ⊖ INDICATES WEATHERTIGHT FLEXIBLE CONNECTION TO EQUIPMENT.
- ⊖ HOME RUN TO PANEL. LETTER DESIGNATES PANEL, NUMBER INDICATES CIRCUITS.
 

A-1,3,5	CONDUIT RUN CONCEALED, IN WALLS, FLOOR, OR ABOVE CEILING.
---	CONDUIT RUN CONCEALED BELOW GRADE, 3/4" MINIMUM.
⊖	CONDUIT STUB OUT, CAP & MARK.
---	BRANCH CIRCUIT WIRING, 2 #12 IN 1/2" CONDUIT OR AS NOTED OR SYMBOLIZED
⊖	1/2" - 3 #12
⊖	1/2" - 4 #12
⊖	1/2" - 5 #12
⊖	1/2" - 6 #12
⊖	3/4" - 7 #12
⊖	3/4" - 8 #12
- ⊖ CHAIN LINK FENCE
- ⊖ LIGHT FIXTURE CALL OUT, "1A" INDICATES FIXTURE TYPE (REFER TO FIXTURE SCHEDULE), "65" INDICATES TOTAL FIXTURE WATTAGE, NUMBER ADJACENT INDICATES QUANTITIES. (NUMBER IS SHOWN FOR BRANCH CIRCUIT PURPOSE ONLY, NOT FOR MATERIAL TAKE-OFF).
- ⊖ DETAIL CALLOUT, "3" INDICATES DETAIL NUMBER "E-1" INDICATES SHEET NUMBER.
- ⊖ PLAN NOTE REFERENCE.
- ⊖ REVISION REFERENCE.
- CO CONDUIT ONLY, WITH PULL ROPE.
- MH MOUNTING HEIGHT
- WP WEATHERPROOF, NEMA 3R
- PROVIDE FURNISH, INSTALLED AND CONNECTED, COMPLETE.
- GFCl GROUND FAULT CIRCUIT INTERRUPTER
- EM EMERGENCY
- NL NIGHT LIGHT
- C CONDUIT
- GFCl OWNER FURNISHED, CONTRACTOR INSTALLED.
- ADA AMERICANS WITH DISABILITY ACT
- E/G EQUIPMENT GROUND (GREEN)
- (E) EXISTING TO REMAIN
- (ER) EXISTING, TO BE REMOVED.
- UG UNDERGROUND
- GEC GROUNDING ELECTRODE CONDUCTOR
- N.E.C. NATIONAL ELECTRICAL CODE
- U.O.N. UNLESS OTHERWISE NOTED
- EXIST. EXISTING TO BE REUSED
- PROV. TO BE FURNISHED & INSTALLED NEW, BY E.C.
- M.O.C.D. MAIN OVER CURRENT DEVICE, EITHER A FUSE OR CIRCUIT BREAKER
- FEEDERS ELECTRICAL CONDUCTORS FEEDING ELECTRICAL EQUIPMENT EQUIPPED WITH OVER CURRENT DEVICES SUCH AS PANEL BOARDS OR MOTORS
- E.C. ELECTRICAL CONTRACTOR
- TYP. TYPICAL
- ELECTRICAL CONDUCTORS BEYOND THE LAST PROTECTIVE DEVICE
- SWBD SWITCHBOARD - ELECTRICAL EQUIPMENT CONTAINING PULLESECTION, METER MAIN, AND FEEDER OVER CURRENT DEVICES
- SWGR SWITCHGEAR - ELECTRICAL EQUIPMENT, SUCH AS SWITCHBOARD, PANELBOARD, DISCONNECT, ETC.

- VERIFY EXISTING SITE CONDITIONS, SERVICE REQUIREMENTS (ELECTRICAL & TELEPHONE) AND EXACT LOCATIONS OF SERVICE FACILITIES BEFORE SUBMITTING BID. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS, ACTUAL PHYSICAL LOCATIONS AND WORK TO BE PERFORMED.
- CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL AND ELECTRONIC SYSTEM.
- CONSTRUCTION TERMINOLOGY, AND THE STANDARDS AND ACCEPTABLE METHODS OF INSTALLATION REQUIRED BY THESE CONTRACT DOCUMENTS ARE BASED ON PUBLISHED STANDARDS OF N.E.C.A. (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION), NATIONAL ELECTRICAL SAFETY CODE, AMERICAN NATIONAL STANDARDS INSTITUTE DOCUMENTS, NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION, UNDERWRITERS LABORATORIES, AND THE CALIFORNIA ELECTRICAL CODE. SUBMITTAL OF BID INDICATES THE CONTRACTOR IS COGNIZANT OF THESE STANDARDS AND THE REQUIREMENTS NECESSARY TO PERFORM ALL THE WORK AS SET FORTH IN THESE CONTRACT DOCUMENTS.
- ELECTRICAL CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS, CITY PAYS FOR PERMIT, COORDINATE AND PAY FOR ALL TEMPORARY ELECTRICAL SERVICE CHANGES WITH THE SERVING UTILITY, AND OWNER. COORDINATE TEMPORARY CONSTRUCTION REQUIREMENTS WITH ALL TRADES PRIOR TO CONSTRUCTION.
- ALL WORK THAT REQUIRES SERVICE INTERRUPTION TO ANY BUILDING ON THE SITE SHALL BE COORDINATED WITH THE CITY, A MINIMUM OF 48 HOURS IN ADVANCE.
- THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE AND REFER TO ARCHITECTURAL DRAWINGS FOR DETAILS, STRUCTURAL DETAILS, EXACT EQUIPMENT AND OUTLET LOCATIONS. ALTHOUGH NOT SHOWN, CONTRACTOR SHALL PROVIDE ALL J-BOXES, PULL BOXES, ELLS, OFFSETS ETC., FOR A COMPLETE CODE APPROVED INSTALLATION. FOOTINGS SHOWN ON ELECTRICAL SINGLE LINES AND RISER DIAGRAMS ARE FOR CALCULATION PURPOSES ONLY AND ARE NOT FOR BIDDING PURPOSES OR MATERIAL TAKEOFF. ALL LOCATIONS OF EVERY OUTLET SHALL BE VERIFIED PRIOR TO ROUGH-IN.
- THE CONNECTION METHOD SHOWN IS FOR BIDDING PURPOSES. THIS CONTRACTOR SHALL COORDINATE AND PROVIDE, FROM ACTUAL BUILDING SHOP DRAWINGS, THE CONNECTIONS SHOWN ON THOSE DRAWINGS.
- EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN COMPLIANCE WITH OSHA.
- ALL MATERIALS SHALL BE NEW, AND OF THE SAME MANUFACTURER FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES FOR THE USE AND ENVIRONMENT, AND SHALL BEAR THE INSPECTION LABEL WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY, AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY A.N.S.I., U.L., N.E.M.A. AND N.E.F.U. INSTALL PER MANUFACTURERS' RECOMMENDATIONS. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.
- SUBSTITUTIONS OF SPECIFIED MATERIALS ARE IN ACCORDANCE WITH THE GENERAL CONDITIONS.
- SUBMIT SHOP DRAWINGS FOR ALL MAJOR PIECES OF ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO: PANELBOARDS, CONTROL CABINETS AND OTHER POWER COMPONENTS.
- CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY, LOCAL CODES, O.S.H.A. AND THE PRESENTLY ADOPTED NATIONAL ELECTRICAL CODE (N.E.C.).
- THE COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE N.E.C., ART. #250, AND AS SHOWN ON THE DRAWINGS. AT THE REQUEST OF AND IN THE PRESENCE OF THE AUTHORIZED INSPECTOR, THE CONTRACTOR SHALL PROVIDE SYSTEM RESISTANCE READINGS.
- PENETRATIONS TO FIRE-RATED MATERIALS SHALL BE RESTORED TO EQUAL RATING AS REQUIRED BY THE STATE FIRE MARSHAL.
- CONDUCTORS SHALL BE CODE GRADE, 600 VOLT CLASS, COPPER, MARKED 24" ALONG IT'S LENGTH SHOWING MANUFACTURER'S NAME, MAXIMUM ALLOWABLE VOLTAGE AND SIZE. CONDUCTORS SHALL BE TYPE "THWN" (WET) OR "THHN" (DRY). DELIVER THE CONDUCTORS TO THE SITE IN UNBROKEN PACKAGES.
- CONDUIT SHOWN AS EXPOSED OR APPROVED FOR EXPOSED INSTALLATION ON THE EXTERIOR SHALL BE INTERMEDIATE METALLIC CONDUIT, I.M.C. OR RIGID GALVANIZED STEEL RGS. RUN IN ANGLES OR PARALLEL TO GRADE, SECURED WITH TWO HOLE MALLEABLE PIPE STRAPS AND SCREWS. ALL BOXES AND FITTINGS SHALL BE SUPPORTED AND SECURED IN COMPLIANCE WITH N.E.C. ARTICLE 370. ALL FITTINGS AND COULERS SHALL BE COMPRESSION TYPE AND WEATHERPROOF. IF VIEWED BY PUBLIC, CONTRACTOR SHALL APPLY 2 COATS OF PAINT TO MATCH SURFACE ATTACHED TO.
- CONDUIT SHOWN AS EXPOSED ON THE INTERIOR SHALL BE WIREMOLD 800 RUN IN RIGHT ANGLES OR PARALLEL TO FINISHED FLOOR SECURED AND INSTALLED WITH NECESSARY ACCESSORIES FOR COMPLETE INSTALLATION.
- P.V.C. CONDUIT, WITH CODE SIZED GROUND, SHALL BE USED UNDERGROUND ONLY, IF APPROVED BY LOCAL CODE. INSTALL PER LOCAL CODE REQUIREMENTS. ALL CONDUIT SWEEPS AND RISERS SHALL BE I.M.C. OR RGS. WITH HALF-LAPPED TAPE COVERING OR FACTORY APPLIED PVC COATING. ROUTE UNDERGROUND CONDUITS AROUND PROPOSED BUILDING LOCATIONS.
- ALL CONDUIT ONLY (C.O.) SHALL HAVE A 3/16" PULL WIRE OR ROPE.
- EXISTING CONDUIT ONLY TO BE USED SHALL BE CLEANED PRIOR TO INSTALLATION OF NEW CABLES OR CONDUCTORS.

- USE ONLY COMPETENT AND SKILLED PERSONNEL AND PERFORM ALL WORK, INCLUDING AESTHETIC AS WELL AS ELECTRICAL AND MECHANICAL ASPECTS TO STANDARDS
- WHERE IT BECOMES NECESSARY TO DRILL INTO OR CUT THROUGH ANY EXISTING FLOORS, WALLS OR CEILING TO PERMIT THE INSTALLATION OF ANY WORK UNDER THIS CONTRACT, OR TO REPAIR ANY DEFECTS THAT MAY APPEAR TO THE EXPIRATION OF THE WARRANTY, SUCH CUTTING AND PATCHING SHALL BE PERFORMED BY TRADESMEN EXPERIENCED IN THE WORK REQUIRED. CONTRACTOR SHALL PAY FOR ALL COSTS REQUIRED FOR CUTTING OR REPAIRING. ALL FINISHES SHALL MATCH EXISTING OR NEW ADJACENT SURFACES.
- CONTRACTOR SHALL EXCAVATE TRENCHES TO A UNIFORM WIDTH AND DEPTH PURSUANT TO THE N.E.C., BUT NOT LESS THAN 36" COVER. CONTRACTOR SHALL REPLACE AND COMPACT ALL EXCAVATIONS IN CONTINUOUS LAYERS OF NOT MORE THAN 6 INCHES COMPACTED DEPTH TO THE SPECIFIED DENSITY OF NINETY PERCENT (90%). CONTRACTOR SHALL MAINTAIN OPTIMUM MOISTURE CONTENT OF FILL MATERIAL TO ATTAIN REQUIRED COMPACTION DENSITY.
- PROVIDE ENGRAVED PLASTIC NAMEPLATES FOR ALL MAJOR PIECES OF EQUIPMENT, AND DISTRIBUTION FEEDERS. PLATES SHALL BE 3 PLY, BLACK FACE, WHITE CORE WITH 1/4" HIGH CONDENSED GOTHIC LETTERING. SCREW-ON ATTACHMENT OR PERMANENT ADHESIVE TAPE ONLY AS MANUFACTURED BY 3M IS PERMITTED.
- HAND THE OWNER ONE SPARE SET OF EACH SIZE AND TYPE OF FUSE INSTALLED ON THIS PROJECT.
- PROVIDE THE OWNER WITH ONE (1) SET OF COMPLETE ELECTRICAL "AS-BUILT" REPRODUCIBLE DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DEPTHS OF UNDERGROUND RUNS AND ALL LOCATIONS. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO THE OWNER AT JOB COMPLETION.
- COMPLETE JOB SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR AFTER DATE OF ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR.
- WHERE A CONFLICT OCCURS BETWEEN THESE NOTES AND ELECTRICAL SPECIFICATION ISSUED AS A PART OF THESE DOCUMENTS, THE MORE STRINGENT REQUIREMENT SHALL PREVAIL.
- CONTRACTOR SHALL REPLACE ALL LANDSCAPE DEVICES AND VEGETATION INCLUDING BUT NOT LIMITED TO IRRIGATION PIPING, SPRINKLERS, GRASS AND ANY VEGETATION REMOVED FOR THE PURPOSE OF INSTALLING OR AS A RESULT OF PROVIDING NEW SPORTS LIGHTING.
- ALL WORK TO BE DONE IN ACCORDANCE WITH CALIFORNIA ELECTRICAL CODE 2001.
- ALL UNDERGROUND OUTSIDE BRANCH CIRCUIT AND FEEDER CIRCUITS ARE TO BE RUN IN NONMETALLIC CONDUIT SCHEDULE 40, UNLESS OTHERWISE INDICATED, LISTED FOR UNDERGROUND INSTALLATIONS, UL LISTED AND RATED FOR 90° CONDUCTORS. ALL ELECTRICAL CONDUCTORS RUN EXPOSED, SHALL BE RUN IN EMT CONDUIT SUPPORTED AT 10' INTERVALS AND WITHIN 3' OF TERMINATIONS OR BOXES.
- ALL ELECTRICAL SYMBOLS PER ANSI Y32.9 1972. REAFFIRMED 1989.
- ALL NEW ELECTRICAL CONDUCTORS ARE TO BE COPPER. INSULATION FOR #12 TO #1 SHALL BE THHN, #10 THROUGH #4/0 SHALL BE TYPE XHHW 55mil, AND #250 MCM AND LARGER SHALL BE TYPE XHHW 85mil. GROUNDING CONDUCTOR SHALL BE THWN.
- UTILITIES AND LIGHTING EQUIPMENT ARE DRAWN DIAGRAMMATICALLY. SCALED DIMENSIONS ARE APPROXIMATE ONLY. BEFORE PROCEEDING WITH WORK, CAREFULLY CHECK AND VERIFY DIMENSIONS, IMMEDIATELY NOTIFY ENGINEER OF DISCREPANCIES BETWEEN DRAWINGS OR SPECIFICATIONS AND ACTUAL CONDITIONS, ALTHOUGH SIZES AND LOCATIONS OF EQUIPMENT ARE DRAWN TO SCALE. WHEREVER POSSIBLE, IT IS NOT WITHIN SCOPE OF THE DRAWINGS TO SHOW NECESSARY OFFSETS, OBSTRUCTIONS, OR SITE CONDITIONS. THE CONTRACTOR WILL BE RESPONSIBLE TO INSTALL WORK IN SUCH A MANNER THAT IT WILL CONFORM TO SITE CONDITIONS, COMPLETE AND IN GOOD WORKING ORDER.
- ALL BRANCH CIRCUITS AND FEEDER CIRCUITS SHALL HAVE A GROUNDING CONDUCTOR PULLED WITH THEM. REF. A.C. BREAKER ASSIGNMENTS & LIGHT AND POWER LAYOUTS FOR SIZE OF GROUNDING CONDUCTOR. THIS COPPER GROUNDING CONDUCTOR SHALL BE TERMINATED TO GROUNDING LUGS OF ALL POLES AND ALL NONCURRENT-CARRYING CONDUCTIVE SURFACES OF FIXED ELECTRICAL EQUIPMENT LIKELY TO BECOME ENERGIZED THAT ARE SUBJECT TO PERSONAL CONTACT.

**CITY OF RIVERSIDE**  
BUILDING & SAFETY

THIS APPROVAL DOES NOT AUTHORIZE VIOLATION OF ANY PROVISIONS OF STATE OR LOCAL BUILDING REGULATIONS NOR DOES IT PREVENT NECESSARY CORRECTIONS OF ANY CONSTRUCTION DEFECTS IDENTIFIED ON THESE PLANS OR OTHERWISE.

Permit: 05-0850  
Date: 10-3-05  
By: 16H

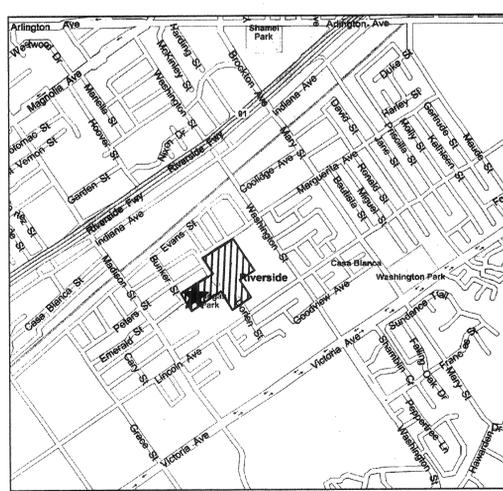
DUPLICATE OF PLANS  
FILED

PROJECT: 0201051  
DATE: 2/4/05  
DRAWN: LPM  
CHECKED:  
APPROVED:  
DWG FILE: VILPRKE1



**DREAM**  
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### CONSTRUCTION NOTES



**OWNER**  
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3900 MAIN STREET  
RIVERSIDE, CA  
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CONTACT: EWINA LAU, PARK PLANNER

**ELECTRICAL (CONSULTANT)**  
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19031 HIGHWAY 18, SUITE 200  
APPLE VALLEY, CA 92307  
(760) 242-3369 (760) 242-1092 FAX  
CONTACT: JOE NOLAN, PROJECT ENGINEER

### VICINITY MAP

### CONSULTANTS

### ELECTRICAL SYMBOLS LIST

### GENERAL NOTES

PREPARED UNDER THE DIRECTION OF \_\_\_\_\_

REGISTERED LANDSCAPE ARCHITECT, RLA \_\_\_\_\_

EXPIRATION DATE \_\_\_\_\_ DATE \_\_\_\_\_

SCALE: AS SHOWN

DATE: 02/07/05

**CITY OF RIVERSIDE**  
3900 MAIN STREET  
RIVERSIDE, CA

BENCHMARK \_\_\_\_\_

DESIGNED BY \_\_\_\_\_ DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE	APPROVED BY
PRINCIPAL ENGINEER			
PARK DEPARTMENT			
TRAFFIC DIVISION			
CHIEF P.W. ENGR.			

DATE \_\_\_\_\_

**VILLEGAS PARK**  
BUNKER ST. - FIELD IMPROVEMENTS  
7240 MARGUERITA STREET  
RIVERSIDE, CA

**Electrical Plan**

PROJECT NO. \_\_\_\_\_

**E-10**

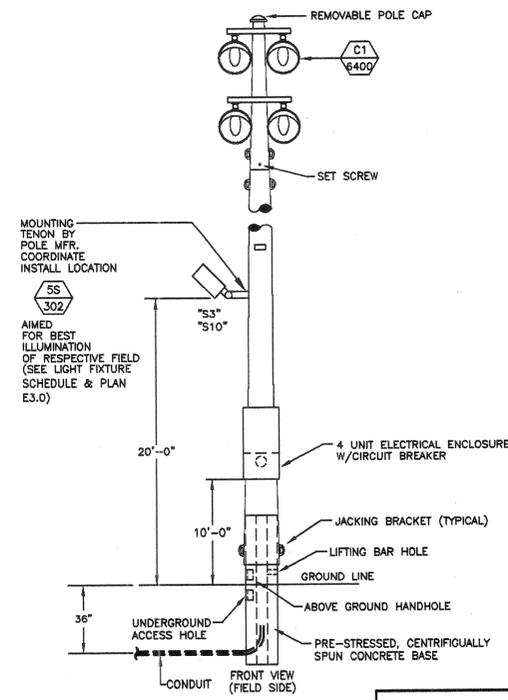
SHEET 1 OF 8

FILE NO. \_\_\_\_\_

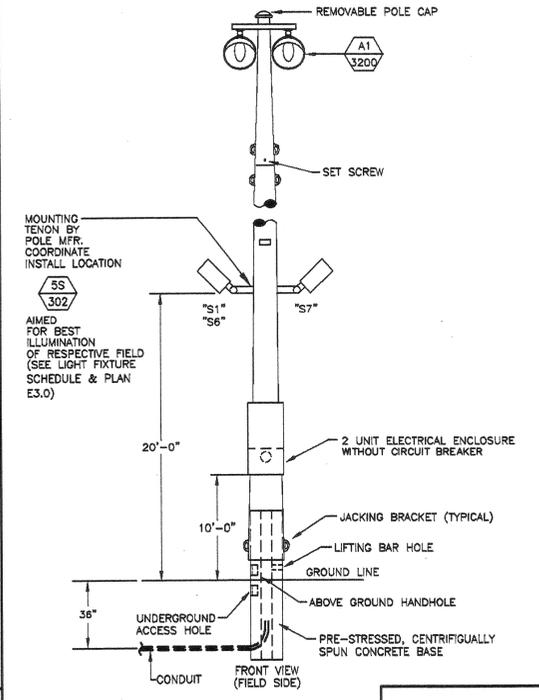
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E-10

LIGHTING FIXTURE SCHEDULE							
DESCRIPTION	NO.	LAMPS		VOLTS	MANUFACTURER	CATALOG #	MOUNTING
		WATTS	TYPE				
SECURITY LIGHTING ADJUSTABLE FLOODLIGHT WIDE NEMA BEAM SPREAD, KNUCKLE FITTER TO MOUNT ON SPORTS FIELD POLE	1	250	HPS	240	DAYRITE	PLM-Y-PCR-BTM-250-S-24-WF	Ø20'-0" ABOVE GRADE ON SPORTS FIELD POLE
H.I.D. SPORTS LIGHT FIXTURE	2	1500	MH	240	MUSCO	TLC-MZ	PER PLANS
H.I.D. SPORTS LIGHT FIXTURE	7	1500	MH	240	MUSCO	TLC-MZ	PER PLANS
H.I.D. SPORTS LIGHT FIXTURE	4	1500	MH	240	MUSCO	TLC-MZ	PER PLANS



POLES C1 & C2



POLES A1 & A2

LIGHTING FIXTURE DETAIL

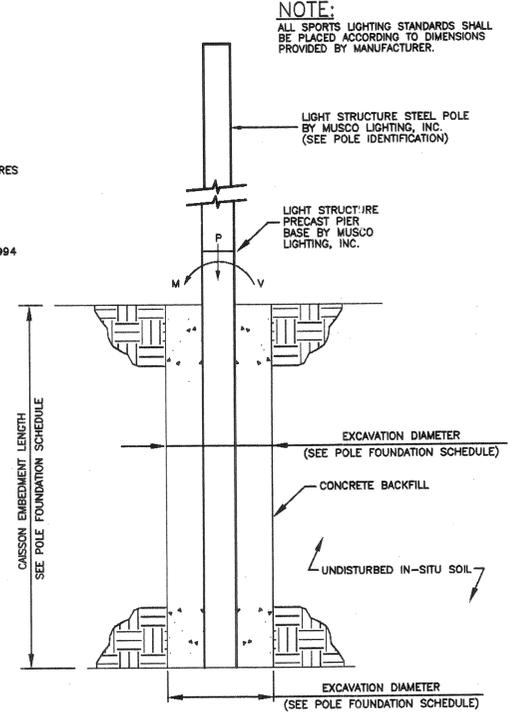
SCALE N.T.S. 3

LIGHTING FIXTURE DETAIL

SCALE N.T.S. 1

POLE BASE NOTES

- GENERAL**
- ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE UNIFORM BUILDING CODE, 1995 EDITION.
  - WIND: 70 MPH (EXPOSURE C)
  - REFERENCE POLE LOCATION DRAWING FOR ACTUAL POLE PLACEMENT AND SITE LOCATION.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL CONSTRUCTION PROCEDURES AND SAFETY CONDITIONS AT THE JOB SITE.
- SOIL DESIGN PARAMETERS**
- ALLOWABLE END BEARING SOIL PRESSURE: 1,000 PSF
  - ALLOWABLE LATERAL PASSIVE SOIL BEARING PRESSURE: 200 PSF/FT
  - REFERENCE CHAPTER 18, SECTION 1806.7.2.1 AND TABLE 18-1-A OF THE 1994 EDITION OF THE UNIFORM BUILDING CODE.
  - DESIGN SOIL PARAMETERS ARE AS NOTED. ACTUAL ALLOWABLE SOIL PARAMETERS MUST BE VERIFIED ON SITE.
  - A GEOTECHNICAL ENGINEER SHALL BE AVAILABLE AT THE TIME OF THE FOUNDATION INSTALLATION TO VERIFY THE SOIL DESIGN PARAMETERS AND PROVIDE ASSISTANCE IF ANY PROBLEMS ARISE IN FOUNDATION INSTALLATION.
  - ENCOUNTERING SOIL FORMATIONS THAT WILL REQUIRE SPECIAL DESIGN CONSIDERATION OF EXCAVATION PROCEDURES MAY EXIST. POLE FOUNDATIONS MAY NEED TO BE REANALYZED ACCORDING TO THE SOIL CONDITIONS THAT EXIST.
  - IF ANY DISCREPANCIES OR INCONSISTENCIES ARISE, NOTIFY THE ENGINEER OF SUCH DISCREPANCIES. FOUNDATIONS WILL THEN BE REVISED ACCORDINGLY.
  - ALL PIERS AND CONCRETE BACK FILL MUST BEAR ON AND AGAINST FIRM, UNDISTURBED SOIL.
  - ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL, AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND PLACEMENT OF CONCRETE BACK FILL. CASING MAY BE REQUIRED IF CAVING OCCURS.
  - ALL EXCAVATIONS MUST BE FREE OF WATER OR CONCRETE SHALL BE PLACED WITH A TREMIE PIPE IN ACCORDANCE WITH ACI STANDARD 304.
- CONCRETE BACK FILL**
- CONCRETE BACK FILL SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS OF 3,000 PSI. SPECIAL INSPECTION IS NOT REQUIRED. (3,000 PSI CONCRETE STRENGTH NOT REQUIRED BY STRUCTURAL DESIGN.)
  - USE TYPE II PORTLAND CEMENT OR AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
  - MIX IN CONFORMANCE WITH ASTM C-94. (1" MAX AGG. SIZE)
  - AGGREGATES PER ASTM C-33.
  - PLACE CONCRETE IMMEDIATELY AFTER COMPLETION OF EXCAVATION AND INSPECTION BY THE GEOTECHNICAL ENGINEER. NO EXCAVATIONS SHALL BE LEFT UNPROTECTED OR OPEN OVERNIGHT.
  - CONCRETE SHALL BE PLACED IN ONE CONTINUOUS OPERATION (NO CONSTRUCTION JOINT) WITH SPECIAL EQUIPMENT WITH A MAXIMUM FREEFALL OF 5 FT AND TO PREVENT CONCRETE FROM STRIKING THE SIDES OF THE EXCAVATION. VIBRATE TOP 5 FT.
  - CONCRETE BACK FILL SHALL ATTAIN A MINIMUM STRENGTH OF 2,000 PSI PRIOR TO POLE INSTALLATION.

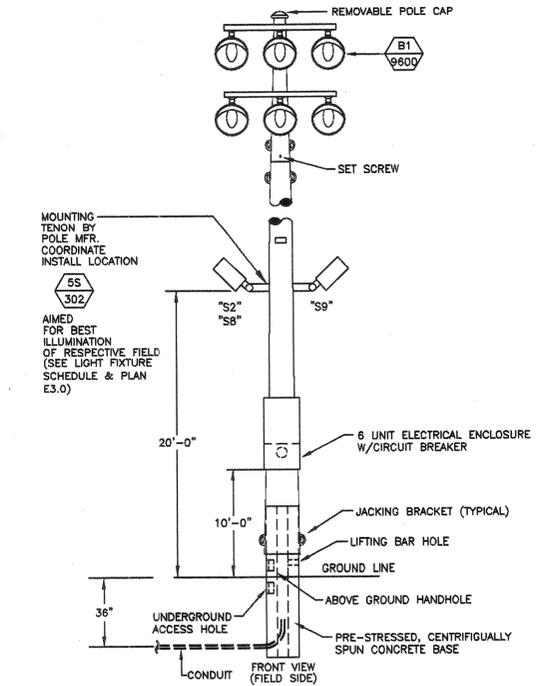


NOTE:  
ALL SPORTS LIGHTING STANDARDS SHALL BE PLACED ACCORDING TO DIMENSIONS PROVIDED BY MANUFACTURER.

POLE IDENTIFICATION				
LOCATION MARK	POLE TYPE	PRECAST BASE TYPE	FIXTURE CONFIGURATION FIXTURES PER CROSSARM	FIXTURE EPA
A1,A2	LS90-A	3B	2	5.8
B1,B2	LS70-A	3B	6(3+3)	18.8
C1,C2	LS90-A	2B	4(2+2)	11.2

POLE FOUNDATION SCHEDULE					
TYPE	FORCES (MAXIMUM)			EMBEDMENT IN CAISSON	CAISSON EMBEDMENT FEET
	MOMENT (K) KIP-FT	SHEAR (V) KIPS	VERTICAL (P) KIPS		
LS90-A	25.12	0.782	1.181	30"	12'-0"
LS70-A	48.28	1.267	1.483	30"	12'-0"

PRECAST BASE TYPE	WEIGHT LBS	OVERALL LENGTH	HEIGHT ABOVE GRADE	EMBEDMENT IN CAISSON	OUTSIDE DIAMETER
1B	1,020	15'-2"	7'-2"	8'-0"	9.58"
2B	1,840	17'-3"	7'-3"	10'-0"	12.00"
3B	2,870	20'-0"	8'-0"	12'-0"	13.58"
4B	3,710	22'-0"	8'-0"	14'-0"	15.73"
5B	5,180	23'-11"	7'-11"	18'-0"	18.25"
6B	8,020	28'-11"	8'-11"	18'-0"	20.56"
7B	11,880	37'-10"	7'-10"	20'-0"	23.75"



POLES B1 & B2

LIGHTING FIXTURE DETAIL

SCALE N.T.S. 4

**DIGALERT**  
DIAL TOLL FREE  
1-800-227-2600  
AT LEAST TWO DAYS BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
REGISTERED LANDSCAPE ARCHITECT, RLA  
EXPIRATION DATE \_\_\_\_\_ DATE \_\_\_\_\_  
SCALE: AS SHOWN  
DATE: 02/07/05

CITY OF RIVERSIDE  
3900 MAIN STREET  
RIVERSIDE, CA

MARK REVISIONS APPR. DATE  
DESIGNED BY \_\_\_\_\_ DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_  
PRINCIPAL ENGINEER  
PARK DEPARTMENT  
TRAFFIC DIVISION  
CHIEF P.W. ENGR.

VILLEGAS PARK  
BUNKER ST. - FIELD IMPROVEMENTS  
7240 MARGUERITA STREET  
RIVERSIDE, CA  
Electrical Plan

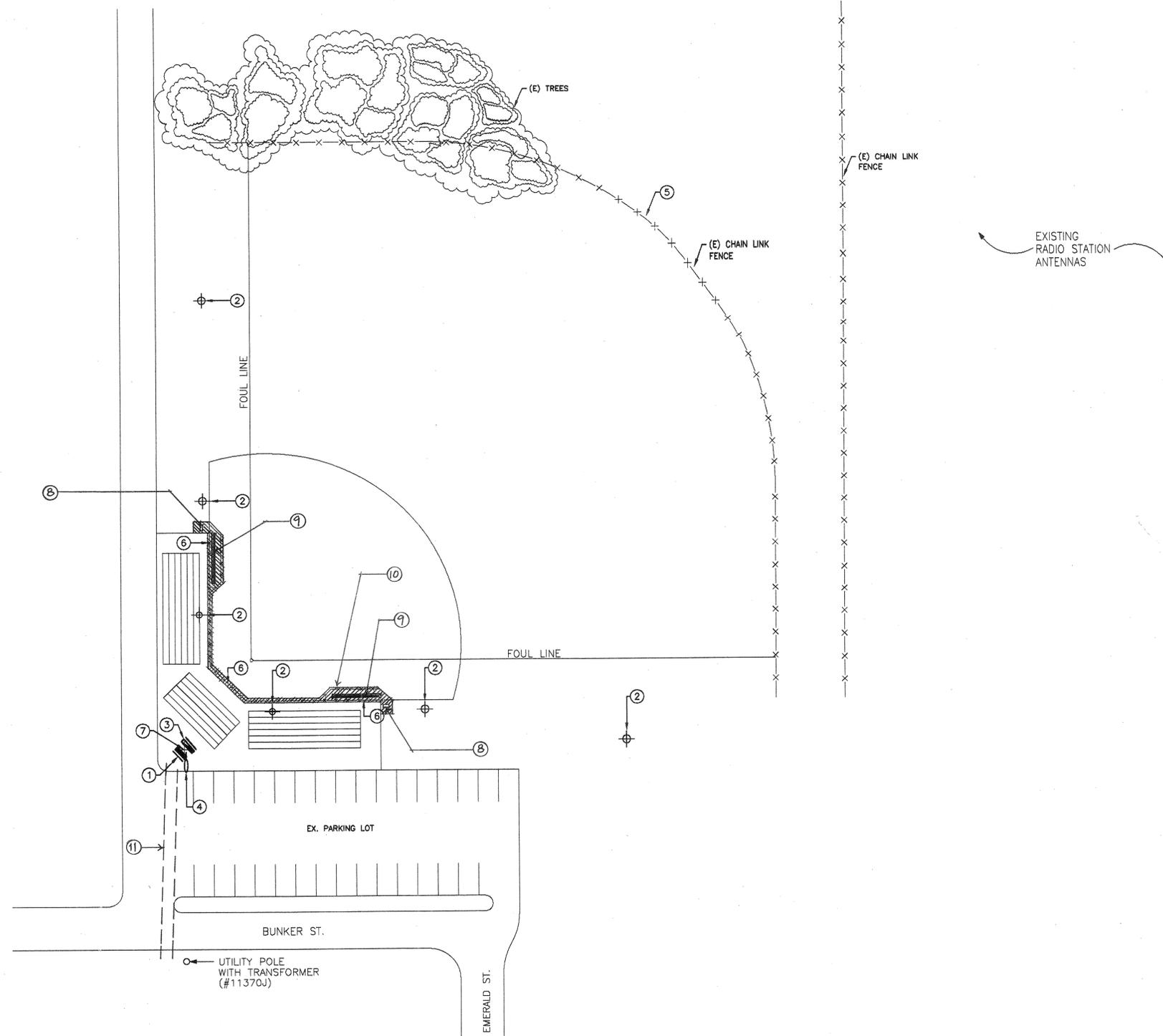
PROJECT NO. \_\_\_\_\_  
DATE: 2/4/05  
DRAWN: LPM  
CHECKED: \_\_\_\_\_  
APPROVED: \_\_\_\_\_  
DWG FILE: VILPRKE2  
PROJECT NO. \_\_\_\_\_  
E-2.0  
SHEET 2 OF 8  
FILE NO. \_\_\_\_\_

Feb 07, 2005 - 5:07pm K:\P13\DRAWINGS\Willegas Park\vilprke2.dwg

6429 NO. 10

**PLAN NOTES:**

- ① EXISTING MAIN SWITCHBOARD "MSA" PROPERLY DISCONNECT AND REMOVE.
- ② EXISTING SPORTS LIGHTING POLE, PROPERLY DISCONNECT AND REMOVE. REMOVE ALL FEEDER CONDUCTORS AND RETURN TO CITY.
- ③ EXISTING CONTROL CABINET, PROPERLY DISCONNECT & REMOVE.
- ④ EXISTING SITE LIGHT. PROPERLY DISCONNECT AND REMOVE.
- ⑤ REMOVE PORTION OF THE EX. FENCING & FOOTING (±L.F.) & REINSTALL PER ELECTRICAL SITE PLAN.
- ⑥ CONTRACTOR SHALL REMOVE ALL PROTECTIVE NETTING AND PROPERLY DISCARD. REPLACE WITH NEW PER ELECTRICAL SITE PLAN.
- ⑦ EXISTING POLE TO BE REMOVED. COORDINATE W/ PUBLIC UTILITIES DEPT.
- ⑧ EX. DRINKING FOUNTAIN, TYP. OF 2. TO BE RELOCATED PER BACKSTOP SITE PLAN.
- ⑨ EX. DUGOUT BENCH, TYP. OF 2. TO BE RELOCATED PER BACKSTOP SITE PLAN.
- ⑩ EX. BACKSTOP & DUGOUT POSTS & FENCING, CONCRETE FOOTING, CURB, PAVING, WOOD BOARD, ETC. TO BE REMOVED.
- ⑪ TRENCHING TO BRING THE EX. OVERHEAD SERVICE UNDERGROUND. COORDINATE W/ PUBLIC UTILITIES DEPT.



**DEMOLITION PLAN**

SCALE  
1" = 30'-0" **1**

PROJECT:	0201051
DATE:	2/4/05
DRAWN:	LPM
CHECKED:	
APPROVED:	
DWG FILE:	VILPRKE3






PREPARED UNDER THE DIRECTION OF  
 REGISTERED LANDSCAPE ARCHITECT, RLA  
 EXPIRATION DATE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 SCALE: AS SHOWN NORTH:  BENCHMARK: \_\_\_\_\_  
 DATE: 02/07/05

CITY OF RIVERSIDE  
 3900 MAIN STREET  
 RIVERSIDE, CA

MARK	REVISIONS	APPR. DATE

DESIGNED BY: \_\_\_\_\_ DRAWN BY: \_\_\_\_\_ CHECKED BY: \_\_\_\_\_

CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS

APPROVED BY	BY	DATE
PRINCIPAL ENGINEER		
PARK DEPARTMENT		
TRAFFIC DIVISION		
CHIEF P.W. ENGR.		

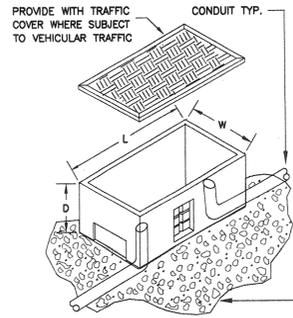
DIRECTOR OF PUBLIC WORKS  
 DATE: \_\_\_\_\_

VILLEGAS PARK  
 BUNKER ST. - FIELD IMPROVEMENTS  
 7240 MARQUERITA STREET  
 RIVERSIDE, CA  
**Electrical Plan**

PROJECT NO. -  
**E-3.0**  
 SHEET 3 OF 8  
 FILE NO. -

Feb. 07, 2005 - 5:08pm K:\R13\DRM\KCS\Villegas Park\vilprke3.dwg

BID NO. 6253

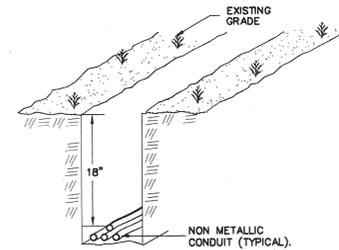


- NOTES:**
1. REFERENCE SPECIFICATIONS FOR ADDITIONAL INFORMATION ON PULLBOX.
  2. REFERENCE ELECTRICAL SITE PLAN FOR SIZE OF CONDUITS.
  3. DIMENSIONS SHOWN FOR PULLBOX ARE TO BE AS SHOWN ON ELECTRICAL SYMBOLS UNLESS NOTED OTHERWISE ON ELECTRICAL SITE PLAN KEYNOTES.
  4. PROVIDE SCHEDULE 80 SWEEPS INTO PULLBOX WHERE SWEEPS ARE REQUIRED.

BED OF 3/4" CRUSHED ROCK GRAVEL 12" DEEP & 6" OUT FROM ALL SIDES OF PULLBOX

**PULLBOX INSTALLATION DETAIL**  
NO SCALE

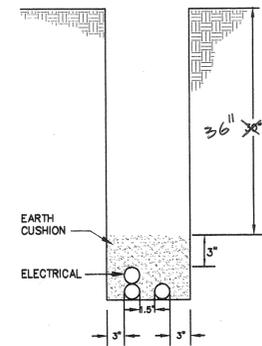
2  
E4



- NOTES:**
1. LAY CONDUIT, FILL, COMPACT TO 90% MATCH SURROUNDING.
  2. AREAS SUBJECT TO VEHICULAR TRAFFIC, SUCH AS THOROUGHFARES, SHALL HAVE A MINIMUM COVER OF 24 INCHES.

**BRANCH CIRCUIT TRENCH DETAIL**  
NO SCALE

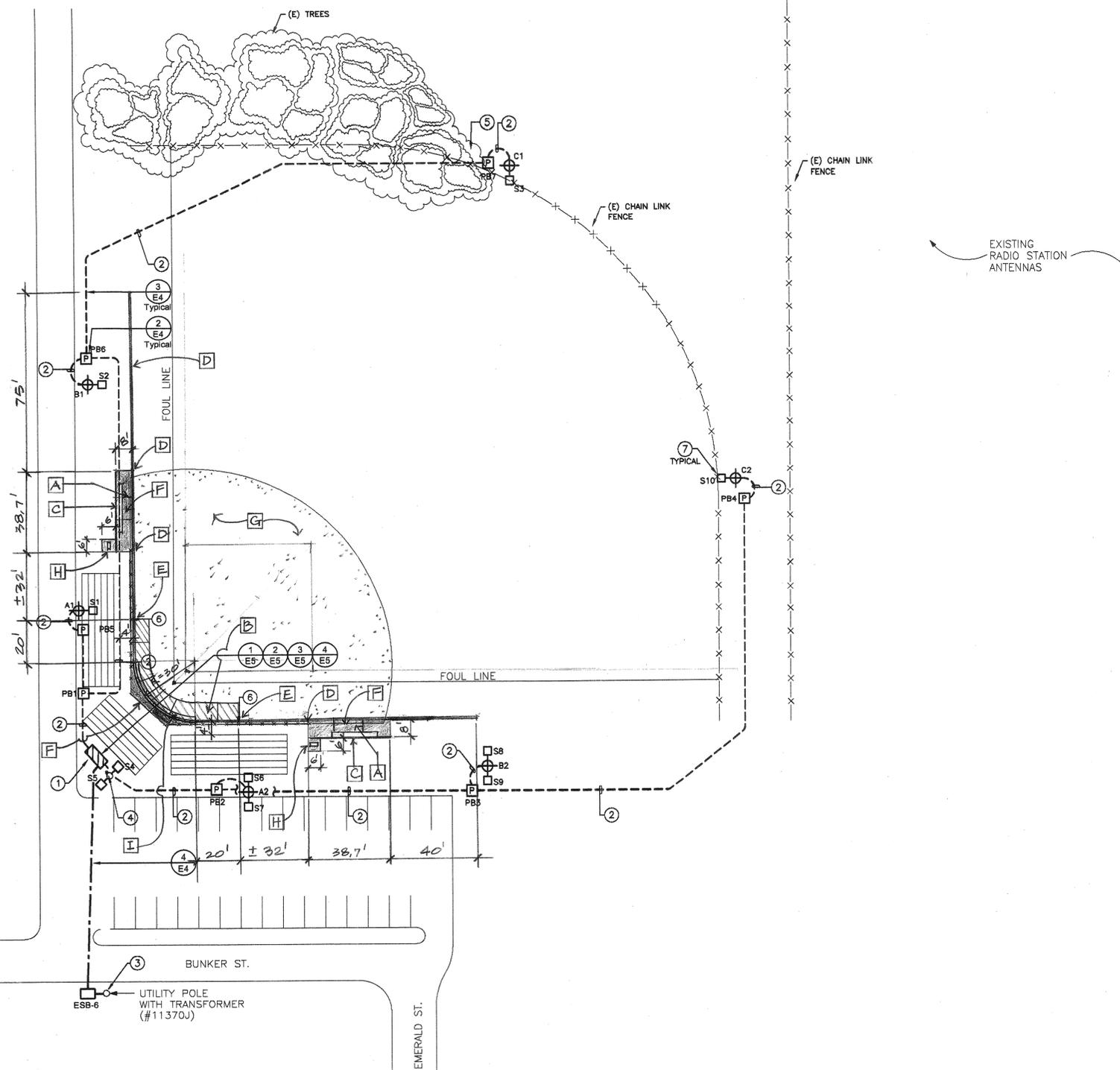
3  
E4



- NOTES:**
1. THIS DETAIL IS FOR BIDDING PURPOSES ONLY. UTILITIES ARE TO PROVIDE DIMENSIONS AND FILL REQUIRED FOR CONSTRUCTION.
  2. VERIFY EXACT LOCATION OF TRENCH WITH UTILITY COMPANY.
  3. TRENCH NOT TO BE COVERED UNTIL POWER AND UTILITY WIRES ARE INSTALLED.
  4. COMPACT TO 90% OR TO ELECTRICAL UTILITY STANDARDS.
  5. ELECTRICAL CONTRACTOR TO COORDINATE SIZE AND TYPE OF CONDUIT(S), PULLROPS, BURIAL DEPTHS, ETC. WITH INFORMATION PROVIDED BY UTILITIES.
  6. IT IS ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO CONTACT DRY UTILITIES AND OBTAIN A COMPLETE LIST OF UTILITY REQUIREMENTS. ELECTRICAL CONTRACTOR IS TO INCLUDE IN HIS BID PRICE, ALL COSTS INVOLVED IN BRINGING DRY UTILITIES TO THE SITE. OWNER WILL PAY COSTS ASSOCIATED WITH APPLYING FOR NEW DRY UTILITY SERVICE. IF E.C. IS UNABLE TO CONTACT ANY DRY UTILITY, HE IS TO CONTACT THE ELECTRICAL ENGINEER, PRIOR TO BID, FOR DIRECTION.

**SERVICE LATERAL TRENCH DETAIL**  
NO SCALE

4  
E4



**PLAN NOTES:**

1. E.C. IS TO PROV. NEW MAIN SWITCHBOARD "MSA" AND CONTROL SECTION ON CONCRETE PAD. SWITCHGEAR IS TO HAVE 3'-0" CLEAR WORKING SPACE IN FRONT. REF. A.C. SINGLE LINE DIAGRAM AND DETAILS.
2. REF. A.C. SINGLE LINE DIAGRAM AND CONDUCTOR SCHEDULE FOR SIZES AND QUANTITIES OF CONDUCTORS AND CONDUITS.
3. EXISTING ELECTRICAL UTILITY SERVICE POLE AND TRANSFORMER(S). E.C. IS TO COORDINATE WITH ELECTRICAL UTILITY TO BRING OVERHEAD SERVICE UNDERGROUND. E.C. IS TO PROV. NEW 17"x30"x24" ESB-6 PULLBOX AND SERVICE LATERAL TRENCH WITH (1) 3" CONDUIT TO PULL SECTION OF NEW SWITCHBOARD. E.C. TO ROUTE SERVICE LATERAL SO THAT UTILITY CO. HAS TRUCK ACCESS (8' WDE) TO SERVICE LATERAL AND TRANSFORMER. COORDINATE TYPE, QTY, BURIAL DEPTH OF CONDUITS, ETC. WITH ELECTRICAL UTILITY.
4. EXISTING ELECTRICAL UTILITY SERVICE POLE. E.C. IS TO COORDINATE WITH ELECTRICAL UTILITY TO REMOVE POLE.
5. ALL TREES WITHIN POLE C1'S PERIMETER MUST BE PROPERLY TRIMMED. TAKE SPECIAL CARE NOT TO DAMAGE PLANTS OR TREE ROOTS WHEN TRENCHING IN BEDDING OR TREE ROOT AREA. ANY DAMAGED PLANTS TO BE REPLACED/REPAIRED AT CONTRACTORS EXPENSE.
6. E.C. IS TO PROV. NEW PROTECTIVE NETTING AND ALL NECESSARY EQUIPMENT REQUIRED TO SUPPORT IT PROPERLY.
7. PROV. NEW SECURITY FLOOD LIGHT. REF. SYMBOL LIST AND LIGHTING FIXTURE SCHEDULE.

**BACKSTOP FENCING NOTES**

- A. CONSTRUCT NEW DUGOUT PER DETAILS B, C, & D, AS SHOWN ON SHEET CD-1.
- B. CONSTRUCT NEW CANTILEVER BACKSTOP PER DETAIL A, AS SHOWN ON SHEET CD-1.
- C. CONSTRUCT NEW CHAIN LINK FENCE & DUGOUTS PER DETAILS B, C, & D, AS SHOWN ON SHEET CD-1.
- D. ATTACH NEW 10' CHAIN LINK FENCING TO DUGOUT FENCING PER DETAILS D, E, & F, AS SHOWN ON SHEET CD-2.
- E. ATTACH NEW BACKSTOP FENCING TO NEW 10' CHAIN LINK FENCING.
- F. CONSTRUCT NEW 4" THICK CONCRETE PAVING PER DETAIL A, AS SHOWN ON SHEET CD-2.
- G. INSTALL / RENOVATE 4" THICK LAYER OF BRICK DUST FOR THE ENTIRE INFIELD.
- H. RELOCATE AND REINSTALL THE EXISTING DRINKING FOUNTAIN AND TREE GRATE ON A NEW 6' X 6' CONCRETE AREA PER PLAN.
- I. CONSTRUCT BACKBOARDS PER DETAIL A, AS SHOWN ON SHEET CD-1.

**UNDERGROUND PULLBOX SCHEDULE**

I.D.	COVER	COVER I.D.
PB1, PB2	CONCRETE COVER	LIGHTING
PB3, PB6	CONCRETE COVER	LIGHTING
PB4, PB5, PB7	CONCRETE COVER	LIGHTING

**SCHEDULE NOTES:**

1. UNDERGROUND PULLBOXES SHALL BE BROOKS #38 SERIES, OR APPROVED EQUAL. PROVIDE WITH BOLT-DOWN TRAFFIC RATED COVERS.

**ELECTRICAL SITE PLAN**

SCALE  
1" = 30'-0" 1

PROJECT: 0201051  
DATE: 2/4/05  
DRAWN: LPM  
CHECKED:  
APPROVED:  
DWG FILE: VILPRKE4

**DREAM**  
Engineering Inc. • Consulting Electrical Engineers  
1981 • 24th ANNIVERSARY • 2005  
APPLE VALLEY FAX (760)242-1092 PALM DESERT (760)773-4478  
dreamjoe@charter.net dreamjoe@aol.com

REGISTERED PROFESSIONAL ENGINEER  
NO. 11111  
E 9333  
EXPIRES 08/30/2008  
ELECTRICAL  
STATE OF CALIFORNIA

**DIGALERT**  
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1-800-227-2600  
AT LEAST TWO DAYS  
BEFORE YOU DIG  
UNDERGROUND SERVICE ALERT OF SOUTHERN CALIFORNIA

PREPARED UNDER THE DIRECTION OF  
REGISTERED LANDSCAPE ARCHITECT, RLA  
EXPIRATION DATE \_\_\_\_\_ DATE \_\_\_\_\_  
SCALE: AS SHOWN NORTH: BENCHMARK  
DATE: 02/07/05

CITY OF RIVERSIDE  
3900 MAIN STREET  
RIVERSIDE, CA

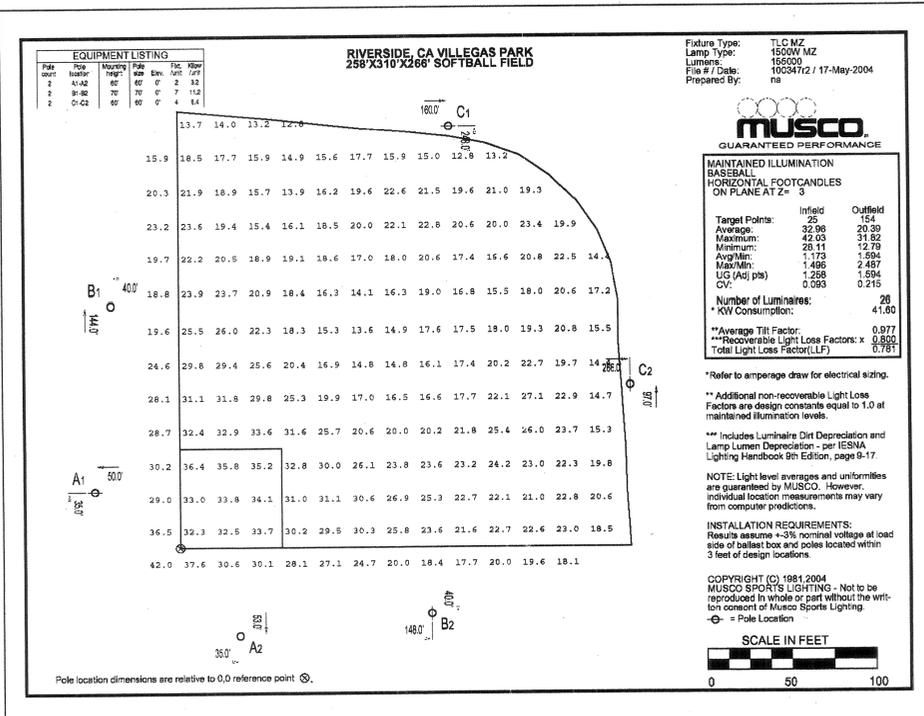
CITY OF RIVERSIDE, CALIFORNIA  
DEPARTMENT OF PUBLIC WORKS  
APPROVED BY \_\_\_\_\_ BY DATE \_\_\_\_\_  
PRINCIPAL ENGINEER  
PARK DEPARTMENT  
TRAFFIC DIVISION  
CHIEF P.W. ENGR.

VILLEGAS PARK  
BUNKER ST. - FIELD IMPROVEMENTS  
7240 MARQUERITA STREET  
RIVERSIDE, CA  
**Electrical Plan**

PROJECT NO. \_\_\_\_\_  
**E-4.0**  
SHEET 4 OF 4  
FILE NO. \_\_\_\_\_



Feb 07, 2005 - 5:09pm K:\R13\DRAWINGS\Villegas Park\vilprk6.dwg



### VOLTAGE DROP CALCULATIONS

SPORTS LIGHTING										
FROM	TO	QTY	VOLT-AMPS	VOLTAGE	AMPS	CONDR SIZE	Rac	DIST.	VOLT DROP	% VDROD
MSA	- POLE A1	2	1,704	240	14.20	#12	2.0000	75	4.26	1.78%
PMSD	- POLE A2	2	1,704	240	14.20	#12	2.0000	75	4.26	1.78%
PMSD	- POLE B1	7	1,704	240	49.70	#4	0.3100	200	6.16	2.57%
PMSD	- POLE B2	7	1,704	240	49.70	#4	0.3100	200	6.16	2.57%
PMSD	- POLE C1	4	1,704	240	28.40	#2	0.1900	450	4.86	2.02%
PMSD	- POLE C2	4	1,704	240	28.40	#2	0.1900	450	4.86	2.02%
SECURITY S1, S2, S3 LIGHTS										
FROM	TO	QTY	VOLT-AMPS	VOLTAGE	AMPS	CONDR SIZE	Rac	DIST.	VOLT DROP	% VDROD
MSA	- PULLBOX	3	291	240	3.63	#12	2.0000	36	0.52	0.22%
PULLBOX	- PULLBOX	2	291	240	2.42	#12	2.0000	165	1.60	0.67%
PULLBOX	- S3	1	291	240	1.21	#12	2.0000	405	1.96	0.82%
TOTALS								606	4.08	1.70%
SECURITY S4, S5 LIGHTS										
FROM	TO	QTY	VOLT-AMPS	VOLTAGE	AMPS	CONDR SIZE	Rac	DIST.	VOLT DROP	% VDROD
MSA	- S4	2	291	240	2.42	#12	2.0000	40	0.39	0.16%
S4	- S5	1	291	240	1.21	#12	2.0000	5	0.02	0.01%
TOTALS								45	0.41	0.17%
SECURITY S6, S7, S8, S9, S10 LIGHTS										
FROM	TO	QTY	VOLT-AMPS	VOLTAGE	AMPS	CONDR SIZE	Rac	DIST.	VOLT DROP	% VDROD
MSA	- PULLBOX	5	291	240	6.05	#12	2.0000	75	1.82	0.76%
PULLBOX	- PULLBOX	3	291	240	3.63	#12	2.0000	120	1.74	0.73%
PULLBOX	- S10	1	291	240	1.21	#12	2.0000	280	1.36	0.57%
TOTALS								475	4.92	2.05%



PREPARED UNDER THE DIRECTION OF  
 REGISTERED LANDSCAPE ARCHITECT, RLA  
 EXPIRATION DATE \_\_\_\_\_ DATE \_\_\_\_\_  
 SCALE: AS SHOWN NORTH: BENCHMARK: \_\_\_\_\_  
 DATE: 02/07/05

CITY OF RIVERSIDE  
 3900 MAIN STREET  
 RIVERSIDE, CA

MARK \_\_\_\_\_ REVISIONS \_\_\_\_\_ APPR. DATE \_\_\_\_\_  
 DESIGNED BY \_\_\_\_\_ DRAWN BY \_\_\_\_\_ CHECKED BY \_\_\_\_\_

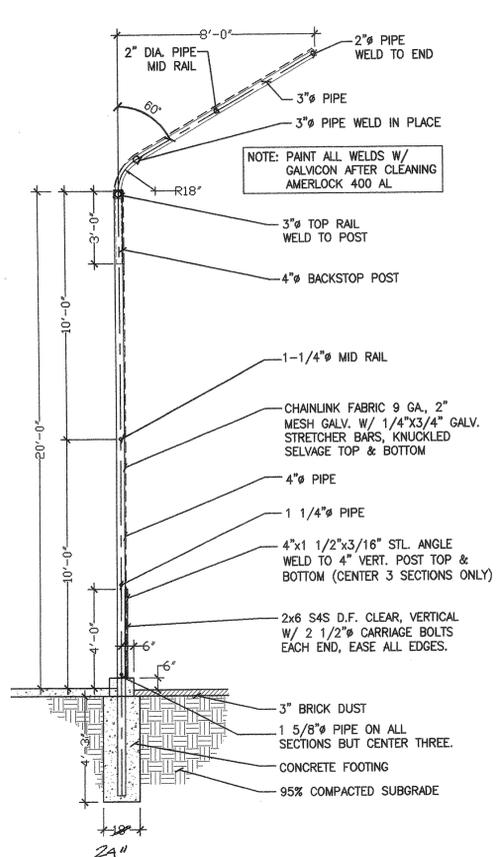
CITY OF RIVERSIDE, CALIFORNIA  
 DEPARTMENT OF PUBLIC WORKS  
 APPROVED BY \_\_\_\_\_ BY \_\_\_\_\_ DATE \_\_\_\_\_  
 PRINCIPAL ENGINEER  
 PARK DEPARTMENT  
 TRAFFIC DIVISION  
 CHIEF P.W. ENGR.  
 APPROVED BY \_\_\_\_\_  
 DIRECTOR OF PUBLIC WORKS  
 DATE \_\_\_\_\_

VILLEGAS PARK  
 BUNKER ST. - FIELD IMPROVEMENTS  
 7240 MARGUERITA STREET  
 RIVERSIDE, CA  
**Electrical Plan**

PROJECT NO. \_\_\_\_\_  
**E-6.0**  
 SHEET 6 OF 8  
 FILE NO. \_\_\_\_\_

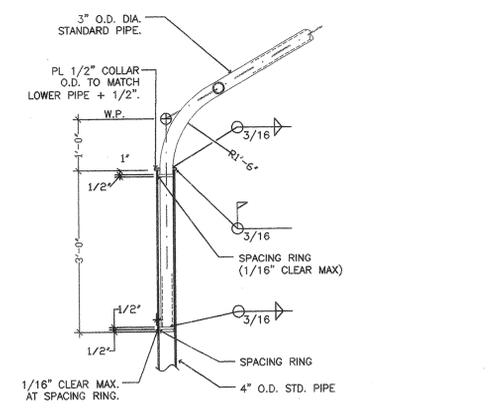
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 DATE: 2/4/05  
 DRAWN: LPM  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_  
 DWG FILE: VILPRKE6

BID NO. 6253

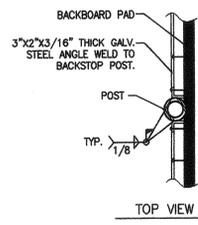


**A** CANTILEVER BACKSTOP-City of Riverside Standard

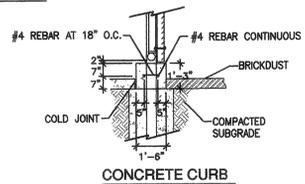
NOT TO SCALE



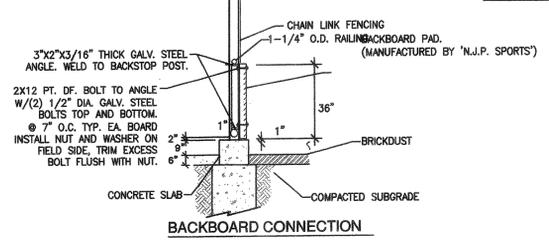
CANTILEVER CONNECTION



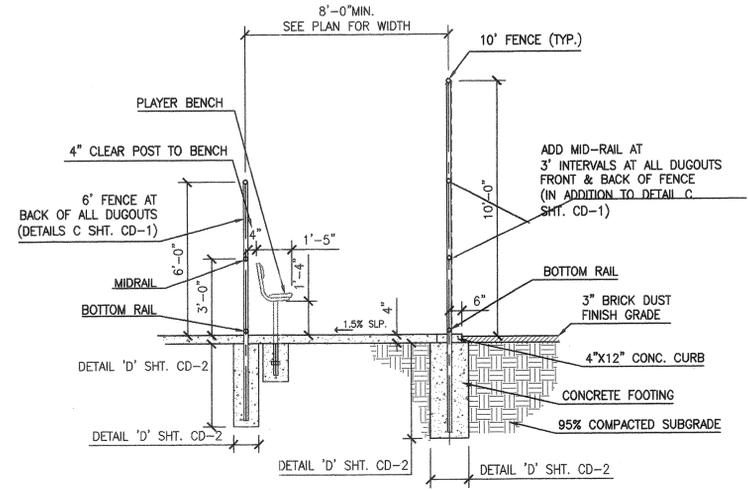
TOP VIEW



CONCRETE CURB

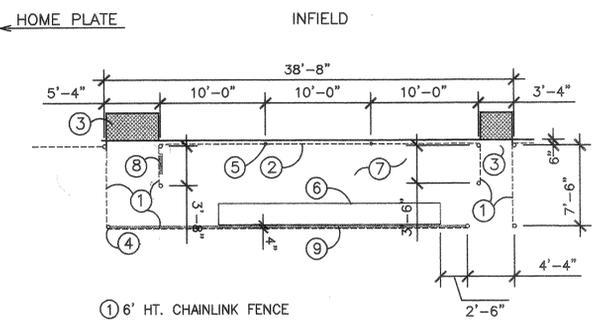


BACKBOARD CONNECTION



**B** DUGOUT

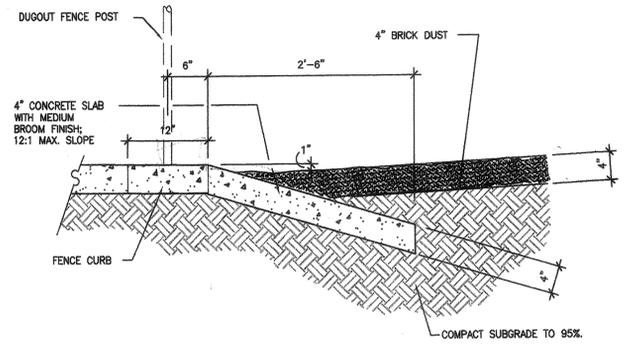
NOT TO SCALE



**C** DUGOUT

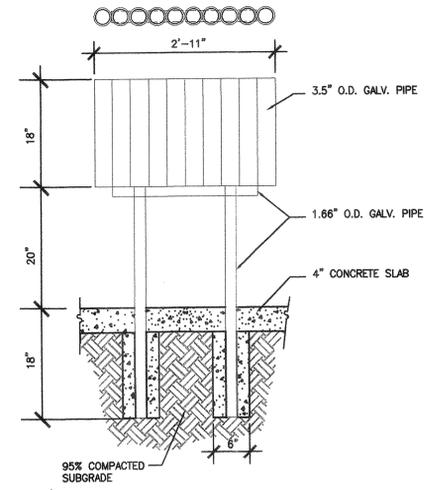
NOT TO SCALE

- ① 6' HT. CHAINLINK FENCE
- ② 10' HT. CHAINLINK FENCE
- ③ DUGOUT RAMP ENTRANCE. REFER TO DETAIL D SHT. CD-1
- ④ CHAIN LINK END POST, TYPICAL. REFER TO DETAILS D, E SHT. CD-2
- ⑤ CHAIN LINK LINE POST, TYPICAL. REFER TO DETAILS D, E SHT. CD-2
- ⑥ PLAYER BENCH.
- ⑦ 4" THICK CONCRETE PAVING, REFER TO DETAIL A SHT. CD-2
- ⑧ BAT RACK AT CENTER OF POST, REFER TO DETAIL E SHT. CD-1
- ⑨ EXISTING SALVAGED PLYWOOD BACKBOARDS AT DUGOUTS TO BE PAINTED TO MATCH EXISTING COLOR AND INSTALLED ON NEW DUGOUT FENCING.



**D** DUGOUT RAMP

NOT TO SCALE



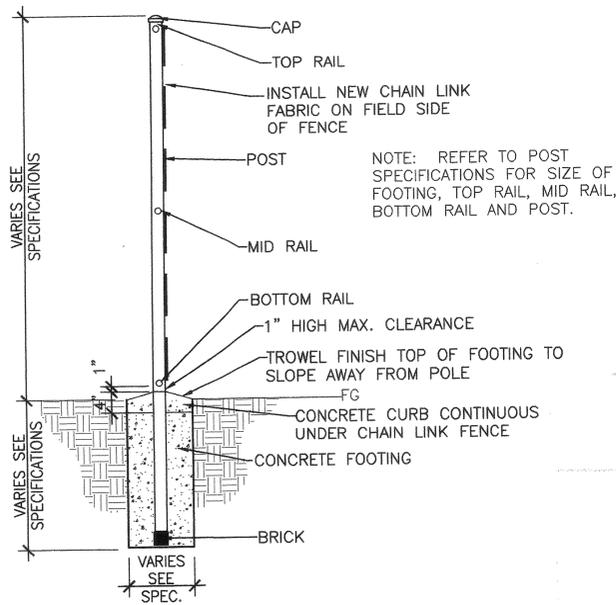
**E** BAT RACK

NOT TO SCALE



Description;
CONSTRUCTION DETAILS
Sheet 7 of 8
CD-1

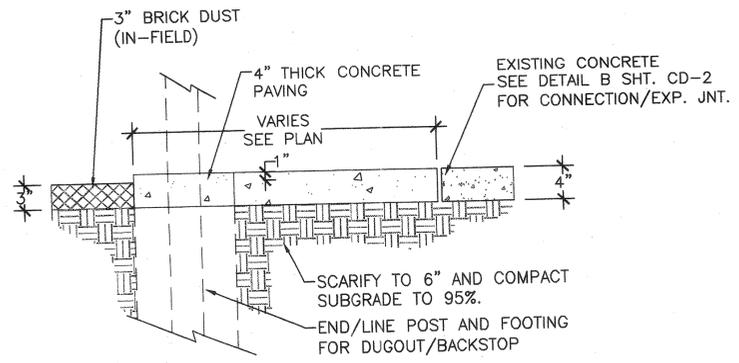
BID No. 6253



CHAIN LINK FENCE MATERIALS	
CHAIN LINK FABRIC	2" MESH, 9 GA. GALVANIZED
TENSION RODS	3/8" DIA GALVANIZED
STRETCHER BAR	1/4" x 3/4 GALVANIZED
TENSION WIRE	
NOTES:	
1.	ALL CHAIN LINK FABRIC TO BE KNUCKLED SELVAGE TOP AND BOTTOM.
2.	POST DIAMETER ARE STANDARD NOMINAL PIPE SIZE.
3.	WELD ALL GATE FRAMES.
4.	GRIND ALL WELDS SMOOTH AND PAINT WITH "GALVICON".

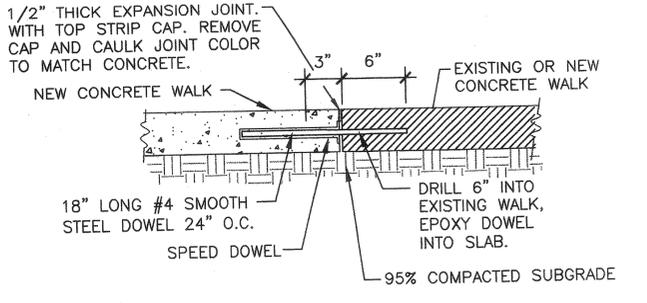
**D** CHAIN LINK FENCE POST

NOT TO SCALE



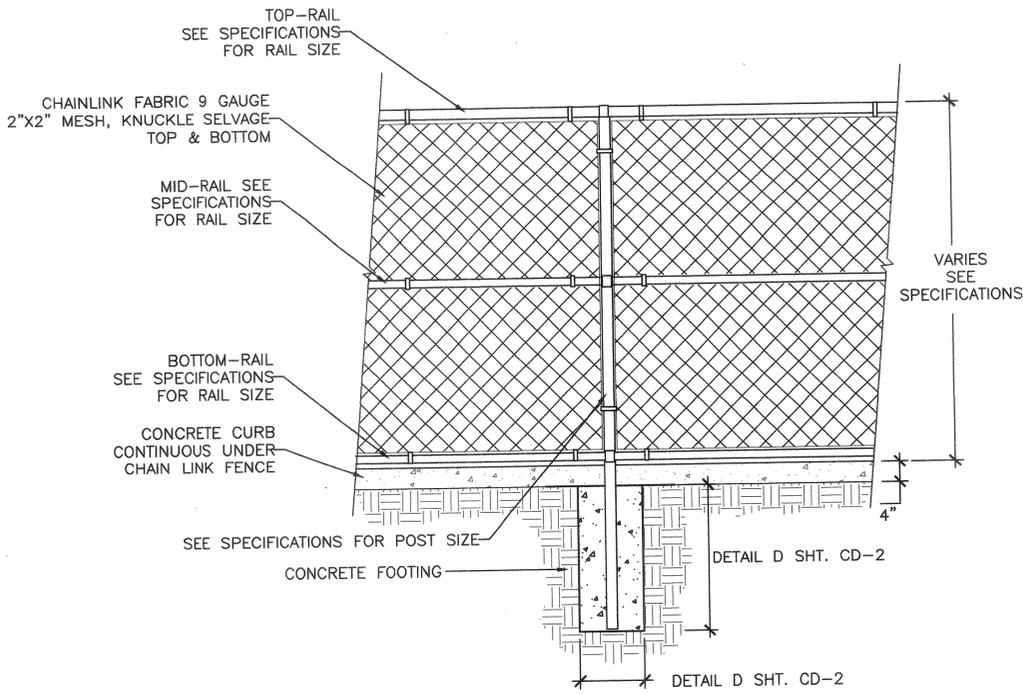
**A** 4" CONCRETE PAVING

NOT TO SCALE



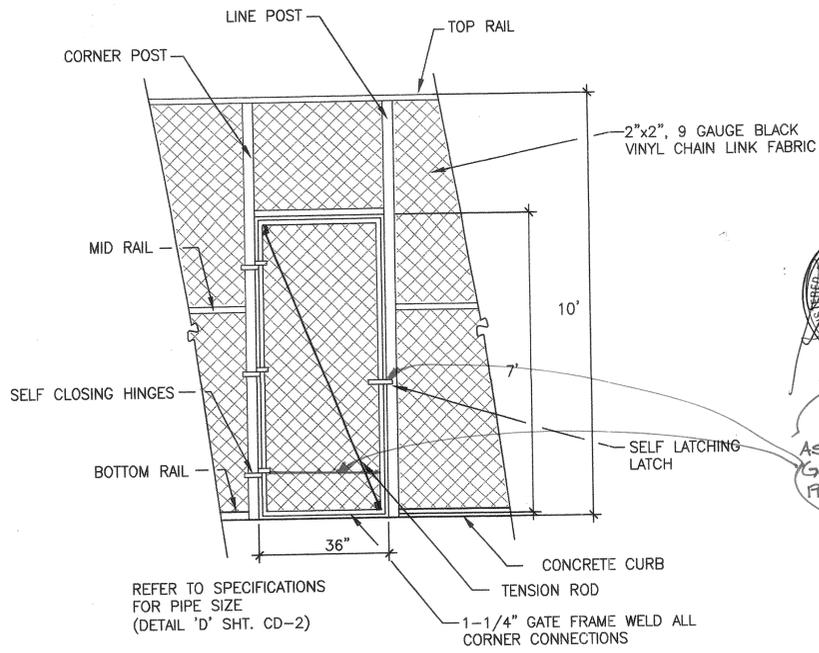
**B** CONNECTION- EXISTING CONCRETE

NOT TO SCALE



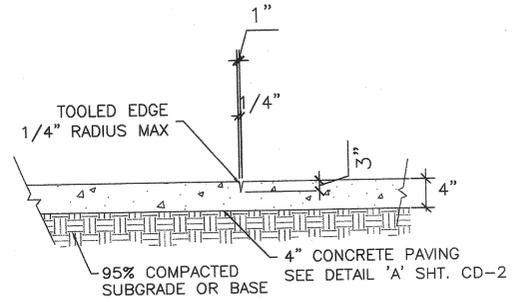
**E** CHAIN LINK FENCE

NOT TO SCALE



**F** CHAIN LINK GATE

NOT TO SCALE



**C** CONTROL JOINT



AS PER 2001 CBC SEC. 1133B.1.1.1.4: GATES SHALL BE CONSTRUCTED AS REQUIRED FOR DOORS (CBC SEC 1133B.2)

RFH  
2/25/05

Description;
CONSTRUCTION DETAILS
Sheet 8
of 8
CD-2

BID No. 6253