

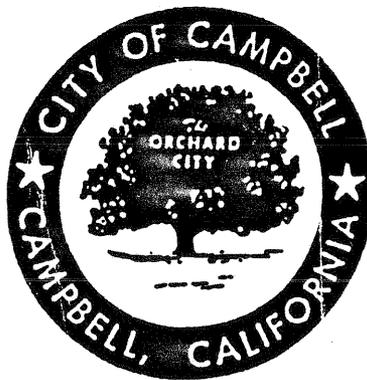
CITY OF CAMPBELL

STANDARD

SPECIFICATIONS AND DETAILS

FOR

PUBLIC WORKS CONSTRUCTION



JULY 1994

CITY OF CAMPBELL - DEPARTMENT OF PUBLIC WORKS

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FORWARD TO CITY OF CAMPBELL STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION

This 1994 edition of the City of Campbell Standard Specifications for Public Works Construction, issued by the Department of Public Works, is a complete revision of and supersedes the previous publication entitled "General Conditions, Standard Construction Provisions and Standard Construction Details for Public Works Construction".

The City of Campbell Standard Specifications and Details for Public Works Construction (CCSS) incorporates by reference the City of San Jose Standard Specifications, July 1992 (SJSS) and Standard Details, July 1992 (SJSP). In turn, by reference, the SJSS incorporates by reference much of the State of California Standard Specifications (SS) and Standard Plans (SP), and the American Public Works Association Standard Specifications for Public Works Construction, 1991 (Green Book). Portions of each of these documents will be necessary for construction within the City of Campbell. References to the SS and SP shall be to the July 1992 editions.

Modifications to the SJSS are presented in the CCSS. It is the duty of the bidder, developer, and contractor to follow the CCSS and determine the appropriate sections of the SJSS, SJSP, SP, SS, and Green Book that may apply to their particular construction.

CITY OF CAMPBELL
GENERAL PROVISIONS

SECTION 1

DEFINITIONS AND TERMS

1-1.01A **General** - All work within City of Campbell public property shall be performed in accordance with this document, entitled "City of Campbell Standard Specifications and Details for Public Works Construction" (CCSS), also referred to as the Standard Specifications.

Unless amended herein, the City of San Jose Standard Specifications July 1992 (SJSS) and Standard Details July 1992 (SJSD) are hereby incorporated and are made a part hereof. All references in the CCSS, SJSS, and SJSD to the SS and SP shall be to the July 1992 editions of the SS and SP.

Within the SJSS and SJSD, the words "City of San Jose" shall be replaced by the words "City of Campbell", the abbreviations "CSJ" shall be replaced by "Campbell" and all references to the City of San Jose shall be to the City of Campbell, a general law City incorporated in the State of California. All references to locations of City of San Jose offices shall be the location of the equivalent City of Campbell office. All references to provisions of the San Jose Municipal Code shall be references to the related provisions of the City of Campbell Municipal Code, if applicable. Unless otherwise specifically stated or amended herein, all provisions of the City of San Jose Standard Specifications shall apply.

Attention is directed to the following private utility companies and special districts operating within the City of Campbell.

- Pac Bell - Telephone
- Pacific Gas & Electric - Gas & Electric
- San Jose Water Company - Water
- Santa Clara Valley Water District
- T.C.I. - Cable Television
- West Valley Sanitation District - Sanitary

References to construction standards for these facilities as required in the SJSS, shall not apply to City of Campbell contracts. Construction specifications for the actual construction of these facilities shall be as required by the individual utility company or special district. However, all

trench restoration, bedding and backfill requirements shall be in accordance with the City of CCSS.

Whenever references are made in Sections 10 through 1501 of the SJSS to any provisions in Sections 1 through 9 of the SJSS, or references made in Sections 10 through 95 of the SS to any provisions in Sections 1 through 9 of the SS, or references made in the Green Book to any provisions in Sections 1 through 9 of the Green Book, such references shall apply to the appropriate corresponding provisions in the City of Campbell Standard Specifications.

References and details pertaining to the City of San Jose Municipal Water System do not apply to City of Campbell contracts.

1-1.02 **Abbreviations** - The following abbreviations are added to Section 1-1.02 "Abbreviations".

CCSS - City of Campbell Standard Specifications and Details for Public Works Construction

SJSS - San Jose Standard Specifications

SJSD - San Jose Standard Details

SP - State of California Standard Plans

1-1.03 **Acceptance** - The formal written acceptance by the City Council, or City Engineer acting under authority granted by the City Council, of all of the work covered by the Contract, complete in accordance with the plans and specifications and any previously approved modifications thereof.

1-1.09 **Contract** - The following is hereby added to Section 1-1.09 "Contract" of the SJSS:

 Any permit issued by the City for construction within the public right of way shall also be deemed a contract.

1-1.10 **Contractor** - The person or persons, firm, partnership, corporation, or combination thereof private or municipal, who have entered into a contract with the City or the City's legal representatives, including those working under a Public Works encroachment permit.

1-1.15 **Director of Public Works** - The executive officer of the Department of Public Works, also referred to as the "Director", also ex-officio "Superintendent of City Streets", acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties properly delegated to them; also referred to herein as "Engineer".

1-1.17 **Encroachment Permit** - A permit issued by the Public Works Department on behalf of the City authorizing work in the public right-of-way. Special provisions for encroachment permit work are included with the permit and take precedence over all other specifications or details and may only be superseded by the Engineer.

1-1.18 **Engineer** - The Public Works Director of the City of Campbell, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties properly delegated to them.

1-1.29 **Plans** - The project or permit plans, the City of San Jose Standard Details (July 1992) as amended and supplemented by the City of Campbell Standard Specifications and Details for Public Works Construction (July 1994), profiles, typical cross-sections, working drawings and supplemental drawings, or reproductions thereof, approved by the Engineer, which show the location, character, dimensions and details of the work to be performed. All such documents are to be considered as a part of the plans whether or not reproduced in the special provisions.

1-1.37 **Special Provisions** - Specific clauses setting forth conditions or requirements peculiar to the work and supplementary to the Standard Specifications. The State of California Department of Transportation (CalTrans) publications entitled "Labor Surcharge And Equipment Rental Rates" and "General Prevailing Wage Rates" are to be considered as a part of the special provisions except for work being done under a Public Works encroachment permit.

1-1.38 **Specifications** - The directions, provisions and requirements contained in the Standard Specifications and supplemented or revised by the special provisions.

SECTION 2

PROPOSAL REQUIREMENTS AND CONDITIONS

2-1.01 **Contents of Proposal Forms.** The last sentence of Section 2-1.01 "Contents of Proposal Forms", of the SJSS is hereby deleted.

2-1.056 **City Employees and Design Engineers May Not Bid on Construction Contract.** Section 2-1.056, "State Employees and Design Engineers May Not Bid on Construction Contract" of the SS is hereby incorporated.

2-1.11 **Ineligibility To Contract** - In lieu of Section 2-1.11 "Debarment of Bidders" of the SJSS, Section 2-1.11 "Ineligibility to Contract" of the SS is hereby incorporated.

2-1.12 **General Guaranty** - In lieu of Section 2-1.12, "Material Guaranty" of the SJSS the following shall apply.

The Contractor's work shall be guaranteed to be free from any and all defects arising out of faulty materials or workmanship. Neither the final inspection, the final payment, nor any provision in the Contract, nor partial or entire use or occupancy of the premises by the City shall constitute an acceptance of the work not done in accordance with the Contract, or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty material or workmanship.

The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom which shall appear within a period of one (1) calendar year from the date of the final acceptance of the work by the City. The City shall endeavor to give notice of observed defects with reasonable promptness. Such defects shall be corrected by the Contractor, at no additional cost to the City, as quickly as practical.

The final acceptance of the work shall be contingent upon sufficient sureties being provided to guarantee the foregoing obligations. These sureties may take any of the following forms: a cash retention in the amount of twenty-five percent (25%) of the consideration for the completed contract; Bond for Faithful Performance of the Maintenance Period, or other security acceptable to the City.

In the event that a cash retention has been held as a surety, the provider of the surety shall have the right, at their request and expense, to substitute acceptable securities equivalent to the amount withheld, by depositing such securities with the City, or with a state or federally chartered bank as an escrow agent; provided, however, that such substitution shall not apply where it would be contrary to applicable State or Federal regulations or policies.

The foregoing guarantees shall be deemed supplemental to any other obligation of the Contractor, and shall not limit or otherwise affect any other legal rights that City may have with respect to Contractor.

SECTION 3

AWARD AND EXECUTION OF CONTRACT

3-1.02 **Contract Bonds** - In lieu of Section 3-1.02 "Contract Bonds" of the SJSS, the following shall apply.

The successful bidder shall furnish a Bond for Faithful Performance and a Bond for Labor and Materials at the time of execution of the contract. In the case of Public Works permit work, a Bond for Faithful Performance in the amount of 100% of the Engineer's Estimate of the work to be performed shall be required. A Bond for Faithful Performance of the Maintenance Period shall also be required as indicated in Section 2-1.12 "General Guaranty" of these standard specifications. Each bond shall conform to the form included in the Contract Forms section of the special provisions. All alterations, extensions of time, extra and additional work, and other changes authorized by the specifications, special provisions, or any part of the contract may be made without securing the consent of the surety or sureties of the contract bonds. All surety companies must be authorized to transact business within the State of California.

3-1.02B **Contractor's Payment Bond** - All references to the "Contractor's Payment Bond" shall be revised to read "Bond for Labor and Materials."

3-1.09 **Protesting Of Award Of Bid** - Unsuccessful bidders who feel aggrieved by the awarding of the project to another bidder may protest the award of such bid by notifying the City Clerk, in writing, of their grounds for believing the award was improper within ten (10) days from the date the contract was awarded. Failure to provide such notice within the ten (10) day period will constitute waiver of any and all rights, claims, damages or causes of action against the City arising out of the award of the contract.

SECTION 5

GENERAL

5-1.07 **Lines and Grades** - In lieu of Section 5-1.07 "Lines and Grades" of the SJSS, the following shall apply.

The Contractor shall be responsible for providing all stakes and marks as necessary to establish the lines and grades required for completion of the work specified in the specifications, on the plans, and in the special provisions. All stakes and marks shall be set and cut sheets provided by an individual licensed in the State of California to provide such stakes, marks and cut sheets. The cut sheets shall be subject to review and approval by the Engineer and shall be provided to the Engineer at least two working days prior to planned start of work. All plans shall reference the City's bench mark circuit.

Stakes and marks set by the Contractor shall be carefully preserved by the Contractor. In case such stakes and marks are destroyed or damaged, they will be replaced at the Contractor's earliest convenience. The Contractor will pay for the cost of necessary replacement or restoration of stakes and marks which were destroyed or damaged.

The Contractor shall not disturb any monuments not indicated for removal or replacement on the plans found within the area of the work or improvements unless they have first procured written permission from the Engineer. The Contractor shall bear all expenses associated with tying out, resetting, and re-documenting any monuments which may be disturbed or damaged.

5-1.13 **Final Inspection** - In lieu of Section 5-1.13 "Final Inspection" of the SJSS, the following shall apply.

Upon substantial completion of all items of work, and written request from the Contractor, the Engineer will make a preliminary final inspection and prepare a deficiency list. If such preliminary final inspection and deficiency list preparation delays the work of the Contractor, the Contractor may request in writing an extension of working days therefor. When all items of work have been completed and all deficiencies have been corrected, the Contractor shall make written request for final inspection and acceptance of the work. The Engineer will then make a final inspection and, if warranted, recommend acceptance of the work.

SECTION 6

CONTROL OF MATERIALS

6-3.01 **General** - The following is hereby added to Section 6-3.01 "General" of the SJSS. The Engineer may at any time require materials to be tested to ensure conformance with the plans, details, specifications and/or special provisions.

6-3.01A **Failed Tests** - Unless otherwise specified, all required tests whose results fail to meet the specifications shall be paid for by the Contractor. Any such charges shall be deducted from monies due, or to become due, to the Contractor.

6-3.01B **Permit Testing** - All testing for work performed under Public Works permits issued by the City shall be accomplished at the expense of the permittee, regardless of the test results.

SECTION 7

LEGAL RELATIONS AND RESPONSIBILITY

7-1.01A(4) **Labor Nondiscrimination** - In lieu of Section 7-1.01A(4), "Labor Nondiscrimination" of the SJSS, Section 7-1.01A(4), "Labor Nondiscrimination" of the SS is hereby incorporated.

7-1.01C(1) City Business License - All Contractors and Subcontractors doing work in the City of Campbell shall have a valid City of Campbell Business License in addition to the appropriate State Contractor's License.

7-1.06 Safety and Health Provisions - The following paragraph is hereby added to Section 7-1.06 "Safety and Health Provisions," of the SJSS:

The Contractor shall provide for sanitary facilities for the use of the workers on the job. Such facilities shall be placed and maintained by the Contractor so as not to be aesthetically displeasing, annoying to the neighbors, nor offensive to the senses nor the community standards of decency. The Engineer shall be the sole judge of the adequacy of the facilities, the placement, and the maintenance thereof. Upon notification by the Engineer of deficiencies in any of these areas, the Contractor shall make immediate corrections. Failure to take corrective action within 24 hours shall give the Engineer due cause to stop the work in the Contract and to order the corrective work to be done on the toilet facility and to charge all costs of such work against the monies due or to become due to the Contractor. Compensation for the provision and maintenance of such facilities shall be considered a portion of the various items of work and no separate or additional payment shall be made therefor.

7-1.08 Public Convenience - The following paragraph is hereby added to Section 7-1.08 "Public Convenience," of the SJSS.

If the closure of a street or blocking of the traffic in that street is anticipated or desired, the Contractor must have the Engineer's written approval prior to such closing or blocking. If such access will not be possible, or if a street is blocked or closed at any time, the Contractor shall also notify City Communications at 866-2101 of such situation. The Contractor shall also notify City Communications when such access restriction is eliminated.

7-1.09 Public Safety - The following paragraphs are hereby added to Section 7-1.09 "Public Safety," of the SJSS.

The Contractor shall provide for emergency vehicle access to all properties and fire engine access to all fire hydrants in or around the construction area at all times.

The Contractor shall follow the appropriate best management practices contained in the California Storm Water Best Management Practice Handbook (March 1993) which is available from the Santa Clara Valley Water District Non-Point Source Program. The Contractor shall have this manual on the job site at all times.

7-1.122 Insurance Requirements - The following is hereby added to Section 7-1.122 "Insurance Requirements" of the SJSS.

The Contractor shall procure and maintain for the duration of the contract insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees or subcontractors.

Unless otherwise specified in the Special Provisions or authorized by the Public Works Director, the following shall be required.

Minimum Scope of Insurance

Coverage shall be at least as broad as:

1. Insurance Services Office Commercial General Liability coverage "occurrence" form CG 0001 (Ed. 11/85).
2. Insurance Services Office form number CA 001 (Ed. 1/87) covering Automobile Liability code 1 (any auto).
3. Workers' Compensation insurance as required by the Labor Code of the State of California and Employers Liability insurance.

Minimum Limits of Insurance

Contractor shall maintain limits no less than:

1. General Liability: \$1,000,000.00 per occurrence for bodily injury, personal injury and property damage. If Commercial General Liability Insurance or other form with a general aggregate limit is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
2. Automobile Liability: \$1,000,000.00 per accident for bodily injury and property damage.
3. Employer's Liability: \$1,000,000 per accident for bodily injury or disease.

Deductibles and Self-Insured Retentions

Any deductibles or self-insured retentions must be declared to and approved by the City. At the option of the City, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the City, its officers, officials, employees and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the City guaranteeing payment of losses and related investigations, claim administration and defense expenses.

Other Insurance Provisions

The general liability and automobile liability policies are to contain, or be endorsed to contain, the following provisions:

1. The City, its officers, employees and volunteers are to be covered as insureds with respect to liability arising out of automobiles owned, leased, hired or borrowed by or on behalf of the Contractor; and with respect to the liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts or equipment furnished in connection with such work or operations. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance, or as a separate owner's policy.
2. For any claims related to this project, the Contractor's insurance coverage shall be primary insurance as respects the City, its officers, officials, employees, and volunteers. Any insurance or self-insurance maintained by the City, its officers, officials, employees or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.
3. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be cancelled by either party, except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the City.
4. The Contractor shall procure and maintain Course of Construction insurance for those projects with "Construction Risk" as defined by the City Engineer and as specifically required in the Special Provisions. Course of Construction policies, if required, shall name City as loss payee, and the insurer shall waive all rights of subrogation against the City.

Workers' Compensation and Employers Liability Coverage

The insurer shall agree to waive all rights of subrogation against the City, its officers, officials, employees and volunteers for losses arising from work performed by the Contractor for the City.

Acceptability of Insurers

Unless otherwise approved, insurance is to be issued by an issuer with a current A.M. Best Rating of A:VII and be authorized to transact business in the State of California.

Verification of Coverage

Contractor shall furnish the City with original certificates of insurance and amendatory endorsements effecting coverage required by this clause. All certificates and endorsements are

to be received and approved by the City before work commences. The City reserves the right to require complete certified copies of all required insurance policies, including endorsements effecting the coverage required by these specifications, at any time.

Permit number and address or project number and address shall be clearly stated on all insurance documents.

Subcontractors

Contractor shall include all subcontractors as insureds under its policies or shall furnish separate certificates and endorsements for each subcontractor. Endorsements for each subcontractor must name the Contractor and/or City as additional insured. All coverages for subcontractors shall be subject to all of the requirements stated herein.

7-1.15 **Relief From Maintenance and Responsibility** - In lieu of Section 7-1.15, "Relief from Maintenance and Responsibility," of the SJSS, the following shall apply:

Under unusual conditions, the Engineer may make a partial acceptance of a major portion of the work of the Contract, such as a traffic control signal system, a highway lighting system, or a storm sewer system. Such partial acceptance would relieve the Contractor from responsibility for maintenance and repair due to damage by vehicular or pedestrian traffic or other public use. Such partial acceptance may or may not begin the one-year maintenance period responsibility of the Contractor as specified in Section 2-1.12 "General Guaranty" contained herein. A partial acceptance will only be considered upon a written request from the Contractor specifying the unusual circumstances and the specific portion of the work to be accepted. The Engineer shall be the sole and final judge of whether the indicated special circumstances warrant a partial acceptance and of what portion of the completed work may be subject to partial acceptance, and whether the maintenance period responsibilities commence.

Nothing in this Section 7-1.15 providing for partial acceptance and relief from maintenance and responsibility will be construed as relieving the Contractor of full responsibility for making good defective work or materials found at any time before the end of the one-year maintenance period.

7-1.166 **Substantial Completion** - This section does not apply to City of Campbell contracts.

7-1.17 **Acceptance of Contract** - In lieu of Section 7-1.17, "Acceptance of Contract" of the SJSS, the following shall apply.

When the Engineer has made the final inspection as provided in Section 5-1.13, "Final Inspection," and determines that the contract work has been completed in all respects, and in its entirety, in accordance with the plans and specifications, the Engineer will recommend that the City formally accept the contract. Immediately upon and after such acceptance by the City, the

Contractor will be relieved of maintaining and protecting the work as a whole, except for any specifically designated maintenance items and all warranty work.

SECTION 8

PROSECUTION AND PROGRESS

This section is not applicable to Public Works permit work.

8-1.03 **Beginning of Work** - The first paragraph of Section 8-1.03 "Beginning of Work" of the SJSS is hereby amended to read as follows.

Unless otherwise approved by the Engineer, the Contractor shall begin work within 10 calendar days from the date of the Notice to Proceed, and shall diligently prosecute the same to completion within the time limit provided in the special provisions. The first working day charged will be the first day that the Contractor actually begins work, or the 11th calendar day after the issuance of the Notice to Proceed, whichever occurs first. Should the 11th day after the issuance of the Notice to Proceed fall on a Saturday, Sunday, or legal holiday, the following working day shall be the first working day charged.

8-1.04 **Progress Schedule** - In lieu of Section 8-1.04 "Progress Schedule" of the SJSS the following shall apply.

The Contractor shall submit a project progress schedule for approval by the Engineer within eight (8) days, not including Saturdays, Sundays and legal holidays from the date of the Notice of Award of the Contract. Failure to submit an acceptable progress schedule shall result in rejection of the Contractor's proposal. The progress schedule shall be in the form specified below unless otherwise specified in the special provisions or approved by the Engineer. Updated progress schedules shall be provided to the Engineer monthly with the estimates of work required in Section 9-1.06 "Partial Payments". No partial payments will be made for any work until an updated schedule has been submitted and approved by the Engineer. Updated schedules shall incorporate all current schedule information, including actual progress, approved time adjustments, and proposed changes in sequence and logic.

The Contractor must furnish a computerized schedule prepared by the critical path method (CPM) which shows the order in which the Contractor proposes to carry out the work; the sequence and interdependence of construction activities; all salient features of the work (including procurement of materials and equipment); the dates on which the Contractor will start the salient features of the work; and the scheduled dates for completing the said salient features. The construction schedule shall include:

- a. Time for submittals and reviews;
- b. Time for fabrication and delivery of manufactured products for the work; and
- c. The interdependence of procurement and construction activities.

The construction schedule shall:

- a. Be a timescaled network diagram referenced to specific calendar dates;
- b. Include time for the Engineer to review submittals or inspect the work; and
- c. Identify the activities which constitute the controlling operations or critical path.

The construction schedule shall not contain multiple critical paths.

Scheduling of change order work is the responsibility of the Contractor. The Contractor shall revise the schedule to incorporate all activities involved in completing the change order work, and submit a new schedule to the Engineer for review.

Delays or changes to non-critical activities will not be considered for a contract time extension. Non-critical activities are those activities which when delayed, do not affect the contract completion time.

The project schedules submitted shall be consistent in all respects with the time and order of work requirements of the contract. The City Engineer, at his or her sole discretion, retains the right to reject any and all construction schedules submitted by the Contractor, including when the City Engineer determines that the Contractor has too many items on the Critical Path, or the logic of the schedule is in error, or if the City Engineer determines salient items of work are missing from the schedule.

Subject to the above provisions, nothing herein shall preclude the Contractor from early completion of the contract.

8-1.06A **Saturday, Sunday, Holiday and Night Work** - In lieu of Section 8-1.06A "Sunday, Holiday and Night Work" of the SJSS, the following shall apply.

Unless otherwise provided in the special provisions, or authorized by the Engineer in writing, work shall not be done between the hours of 5:00 p.m. to 8:00 a.m. nor on Saturdays, Sundays, or legal holidays, unless the Engineer has determined that the work is necessary for the proper care and protection of work already performed, or unless the Engineer has determined that the work is of an emergency nature. When the Engineer has made such a determination, all costs incurred by the City to provide inspection of the work during these times shall be borne by the Contractor and shall be withheld from monies due or to become due to the Contractor, or in the case of permit work, all costs incurred by the City to provide inspection of the work during these times shall be borne by the permittee.

SECTION 9

MEASUREMENT AND PAYMENT

This section is not applicable to Public Works permit work.

9-1.06 **Partial Payments** - The first paragraph of Section 9-1.06 "Partial Payments" of the SJSS shall be deleted and shall be replaced with the following paragraphs.

The Contractor, once each month, on the anniversary date of the Notice to Proceed, shall submit to the Engineer for approval an estimate in writing of the value of the work completed to the time of the estimate. The estimate shall include an itemization by bid items. The value of the work shall be based upon the principals set forth in the measurement and payment portions of the bid items as set forth in the special provisions and the Standard Specifications.

In the event the City of Campbell fails to make any progress payment within 30 days after receipt of an undisputed and properly submitted payment request from the Contractor, the City shall pay interest to the Contractor equivalent to the legal rate set forth in subdivision (a) of Section 685.010 of the Code of Civil Procedure.

Upon receipt of a payment request, the City of Campbell shall act in accordance with both of the following:

1. Each payment request shall be reviewed by the City of Campbell as soon as practicable after receipt for the purpose of determining that the payment request is a proper payment request; and
2. Any payment request determined not to be a proper payment request suitable for payment shall be returned to the Contractor as soon as practicable, but not later than seven days, after receipt. A request returned pursuant to this paragraph shall be accompanied by a document setting forth in writing the reasons why the payment is not proper.

The number of days available to the City of Campbell to make a payment without incurring interest shall be reduced by the number of days by which the City exceeds the above seven-day return requirement.

9-1.07A **Payment Prior to Proposed Final Estimate** - This section does not apply to City of Campbell contracts.

9-1.07B **Final Payment and Claims** - In lieu of Section 9-1.07B "Final Payment and Claims" of the SJSS, the following shall apply.

Final payment is the final partial progress payment. After final inspection and acceptance of the work, the Contractor will make a proposed final estimate and submit this in writing to the Engineer. The Engineer shall review and approve or, if necessary, revise the proposed final estimate and return to the Contractor. The Contractor shall then handle such proposed final estimate as specified in Section 9-1.07B "Final Payment and Claims" of the SS. Payment on the final estimate, whether it be as proposed or as determined after resolution of any claims filed, will be ninety percent (90%) of the total amount due. The remaining ten percent (10%) of the amount due will be paid thirty-five (35) days after the Notice of Completion has been recorded in compliance with the Code of Civil Procedure of the State of California, unless Contractor provides the City with other adequate sureties in accordance with Section 2-1.12 "General Guaranty" of these Standard Specifications or Section 9-1.065 "Payment of Withheld Funds," of the City of San Jose Standard Specifications. In any event, payment of the final payment of the ten percent (10%) retention amount shall not relieve the Contractor of his responsibility and liability for the one-year guaranty of the work as specified in Section 2-1.12 of these Standard Specifications.

TECHNICAL PROVISIONS

SECTION 12

CONSTRUCTION AREA TRAFFIC CONTROL DEVICES

The Contractor shall submit a traffic control plan for review and approval by the Engineer prior to beginning any work on the project. The traffic control plan shall coincide with the project schedule and shall be consistent with the plans, standard specifications, and special provisions for the work involved. Traffic control shall conform to the State of California Manual of Traffic Controls for Construction and Maintenance Work Zones, unless otherwise amended herein, in the special provisions.

12-1.02 **Traffic Control Public Convenience** - Paragraphs 11 and 12 of Section 12-1.02 "Traffic Control Public Convenience" of the SJSS are hereby amended to read as follows.

The Contractor shall notify City of Campbell Communications at (408)866-2101 24 hours in advance of any detours and street closures. All detours and street closures must be approved in advance by the Engineer.

On streets with one traffic lane in each direction, the Contractor shall maintain one 10' traffic lane in each direction unless otherwise approved by the Engineer. All proposed reductions in lane widths and number of lanes must be presented by the Contractor in the traffic control plan for approval by the Engineer prior to work commencing.

12-1.03 **Traffic Control Public Safety** - The third, fourth, and fifth paragraphs of Section 12-1.03 "Traffic Control Public Safety" are hereby deleted and replaced with the following.

Traffic signals shall not be shut down, put into a flashing mode, or new signals activated, unless approved by the Engineer. The Contractor shall request permission from the Engineer for traffic signal shut downs a minimum of five (5) working days in advance and for turn ons a minimum of ten (10) working days in advance of the proposed turn on.

Any work that is planned to be done within a signalized intersection, including but not limited to traffic signal shut downs and turn ons, shall require the presence of Campbell police officers, unless otherwise authorized in writing by the Engineer. The cost of providing the required officers shall be borne by the Contractor. The Contractor shall provide a written request for police officer assistance to the Engineer a minimum of five (5) working days in advance of any work within a signalized intersection. If the request is approved, the Engineer shall coordinate with the City of Campbell Police Department for arranging the presence of officers as requested

by the Contractor. The Contractor shall then be responsible for all costs associated with providing the officers as requested. A three hour minimum charge per officer, plus a 15% administrative processing fee shall be charged to the Contractor in the event that the work is postponed or rescheduled, unless a written request for cancellation from the Contractor is received by the Engineer before 3:00 p.m. of the preceding work day.

Unless otherwise approved by the Engineer, flashing arrowboards and advanced warning signs shall be required at the beginning of all lane closures on arterials and collectors.

SECTION 15

EXISTING FACILITIES

15-2.05B **Miscellaneous Facilities** - All valve boxes, handholes, inlets, and other miscellaneous facilities as shown on the plans or specified in the special provisions to remain shall be adjusted to grade in a manner as approved by the Engineer.

SECTION 16

CLEARING AND GRUBBING

16-1.01 **Description** - The last sentence of Section 16-1.01 "Description" of the SJSS is hereby replaced with the following.

This work shall also include the removal and/or relocation of mailboxes, signs, lights, planters, fences, concrete block walls, or any other miscellaneous items shown on the plans, specified in the special provisions, unless covered by a separate pay item in the specifications. All items to be relocated/replaced shall be replaced in equal or better condition than currently exists. Any side property line fences to be cut back shall have new end posts set at the front property line and shall be properly finished. All trees and landscaping not indicated for removal shall be protected from damage by the Contractor, and the Contractor shall be liable for replacement in kind of any such damaged trees or landscaping.

SECTION 21

SUBGRADE PREPARATION

21.05 Compaction - The third paragraph of Section 21-1.05 "Compaction" of the SJSS is amended to read.

Compaction testing on City projects shall be arranged for by the City. The Contractor shall notify the Engineer 48 hours in advance of requesting compaction tests. The City will pay for all passing tests. All costs for failing tests or tests that had to be rescheduled because the Contractor was not ready shall be deducted from monies due to the Contractor.

Compaction tests for all City issued permit related work shall be arranged for and paid for by the permittee. Passing compaction test results certified by a licensed laboratory will be required for all permit work, unless otherwise approved by the Engineer. Results shall be delivered to the Engineer prior to placement of any subsequent layers.

SECTION 26

AGGREGATE BASES

26-1.01 Description - The last sentence of Section 26-1.01 "Description" of the SJSS is hereby amended as follows.

Unless otherwise specified, aggregate base shall be Class 2, 1-1/2" maximum gradation.

26-1.05 Compacting - The following is hereby added to Section 26-1.05 "Compacting" of the SJSS.

Unless otherwise specified, the relative compaction for all aggregate base shall be 95%.

SECTION 39

ASPHALT CONCRETE

39-1.01 **Description** - The following is hereby added to Section 39-1.01 "Description" of the SJSS.

Unless otherwise specified, asphalt concrete shall be Type A 3/4" maximum, medium. Unless otherwise specified, the asphalt content of the mixture shall be in the range of 4.5 to 7.0 percent by weight of dry aggregate and shall be approved by the Engineer.

Two working days in advance of the paving operations, the Contractor will submit to the Engineer a description of the proposed paving operation including the pass widths, the establishment and control to maintain a uniform grade, and the rolling equipment and procedures to be used.

39-2.02 **Aggregate** - Paragraphs five and six (including the Aggregate Grading Requirements) of Section 39-2.02 "Aggregate" of the SJSS are hereby deleted. The Aggregate Grading Requirements contained in Section 39-2.02 "Aggregate" of the SS are hereby incorporated. All other requirements of Section 39-2.02 of the SJSS shall apply.

39-4.02 **Prime Coat and Paint Binder (Tack Coat)** - Section 39.402 "Prime Coat and Paint Binder" of the SS is hereby incorporated. The following paragraphs are also hereby incorporated.

Unless otherwise specified, paint binder of slow-setting anionic asphaltic emulsion grade SSlh meeting the provisions of Section 94, "Asphaltic Emulsions" of the SS shall be furnished and applied. A prime coat on native subgrade will not be required.

The Contractor may immediately place a subsequent pavement course upon a compacted and approved prior course without the application of paint binder. If the time intervals between courses is more than one day, the Engineer may require the Contractor to sweep the surface and apply paint binder before placing the subsequent course.

39-5.01 **Spreading Equipment** - The following is hereby added to Section 39-5.01 "Spreading Equipment" of the SJSS.

Unless otherwise approved by the Engineer, asphalt concrete shall be spread with a self-propelled mechanical spreading and finishing machine.

39-6.01 **General Requirements** - The following is hereby added to Section 39-6.01 "General Requirements" of the SJSS.

Longitudinal joints shall be offset a minimum of one foot from each other in any two successive courses. Transverse joints shall be offset a minimum of 20 feet. The joints shall be trimmed prior to placing the adjacent course.

SECTION 56

SIGNS

56-2.01 **Description** - The first paragraph of Section 56-2.01 "Description" of the SJSS is hereby deleted and replaced with the following.

Unless otherwise shown on the plans or specified in the special provisions, all sign panels, fastening hardware, and poles shall be furnished and installed by the Contractor. All sign poles shall be 2" inside diameter galvanized unpainted pole unless otherwise specified on the plans or in the special provisions.

Signs shall be mounted to have the following vertical clearances unless otherwise specified on the plans or in the special provisions:

- Reflectors - 1'
- "ONE-WAY" signs in islands - 1 1/2'
- "DO NOT ENTER" signs - 2'
- Other signs in islands - 4'
- Street name signs
 - Mounted independently - 7'
 - Mounted above stop sign - 10'
- All other roadside or streetside signs - 7'

SECTION 73

CONCRETE CURBS AND SIDEWALKS

73-1.05F **Backfilling** - The following sentence is hereby added to Section 73.105F "Backfilling" of the SJSS.

Suitable material shall be as indicated in the special provisions, or as approved by the Engineer.

SECTION 84

TRAFFIC STRIPES AND PAVEMENT MARKINGS

84-1.02 **Control of Alignment and Layout** - The following is hereby added to Section 84-1.02 "Control of Alignment and Layout" of the SS.

Locations of traffic striping and marking shall be reviewed in the field by the Engineer and approved by the Engineer prior to installation of new markings.

84-2.01 **Description** - The following sentence is added to Section 84-2.01 "Description" of the SS.

Unless otherwise specified in the plans or special provisions, traffic lane stripes 8" or wider and all pavement legends/markings (including crosswalks) shall be thermoplastic on all arterial streets and the approaches to all signalized intersections. All other traffic stripes and pavement markings shall be painted.

84-3.02 **Materials** - Section 84-3.02 "Materials" of the SJSS does not apply. Section 84-3.02 "Materials" of the SS shall apply.

84-3.05 **Application** - The following is hereby added to Section 84-3.05 "Application" of the SJSS.

Unless otherwise specified in the special provisions, all painted traffic stripes and painted pavement markings shall be applied in two coats.

84-3.05A **Temporary Striping** - The following is hereby added to Section 84-3.05A "Temporary Striping" of the SJSS.

Whenever existing traffic striping or markings have been removed, paved over, or otherwise obliterated, temporary striping or markings shall be provided as follows. Slurry tabs of the appropriate color as approved by the Engineer shall be installed and placed on twenty-four (24) foot intervals to delineate all four (4) inch traffic stripes. All channelization lines (solid eight inch or twelve inch line markings) shall be temporarily restored with traffic striping tape, or a double row of slurry tabs as approved by the Engineer. All arrow legends and crosswalks shall be restored with temporary traffic striping tape. All pavement markers separating multiple turning lanes shall be replaced with slurry tabs on a ten (10) foot spacing. Temporary traffic striping and markings shall be removed and replaced with permanent striping and markings as soon as the final pavement surface has cured sufficiently to receive the permanent traffic paint or thermoplastic. Permanent pavement markers shall be installed on the same day that the

permanent traffic striping and markings are installed, however, the installation of pavement markers shall be done only after all traffic striping and markings are installed. The Contractor shall maintain the temporary striping until the permanent traffic striping and markings are placed.

84-3.05B **Removal of Existing Traffic Stripes and Pavement Markings** - Existing striping and markings shall be removed as designated in the plans, special provisions, or as directed by the Engineer. Existing striping and markings that are in conflict with proposed striping and markings shall be removed on the same day that the new stripes are placed. After painting the new striping and markings, the previous striping and markings shall be removed by sandblasting. Sandblasting equipment shall be equipped with a vacuum to remove all sandblasted material and a shield to minimize the emission of particles and dust. All sandblasted areas shall be slurry sealed to limits specified below:

lane lines - 2' on either side of lane line

pavement markings - 2' beyond top, bottom, and sides of marking

All holes left from marker removals shall also be filled by the Contractor.

SECTION 86

SIGNALS, LIGHTING AND ELECTRICAL SYSTEMS

86-1.05 **Maintaining Existing and Temporary Electrical Systems** - Section 86-1.05 "Maintaining Existing and Temporary Electrical Systems" of the SJSS is hereby amended as follows.

All references to 24 hour advance notification shall be changed to read 48 hour advance notice, unless otherwise amended below.

The Contractor shall request, in writing, approval from the Engineer of the time and date for traffic signal activations or shutdowns a minimum of ten (10) working days prior to requested date of activation. Attention is also directed to Section 12 "Construction Area Traffic Control Devices" of these standard specifications for additional requirements.

Any damage causing signal shutdown shall be the Contractor's responsibility. The Contractor, at their sole expense, shall restore the signal operation within 30 minutes. During the shutdown, the Contractor shall pay for all traffic control costs, including control devices and the time of all City staff, including but not limited to maintenance crews and Campbell police officers as determined necessary by the Engineer. If the Contractor fails to restore the signal operation within 30 minutes, the City will restore the signal operation at the Contractor's expense. The

City shall charge the Contractor for the cost of performing the work by deducting this cost from payments due or to become due to the Contractor as these costs are incurred by the City.

The Contractor, at their sole expense, shall permanently repair the signal to the current City standards and to the Engineer's satisfaction within 24 hours. If the Contractor fails to repair the signal facility within 24 hours, the City will repair the signal facility at the Contractor's expense. The City shall charge the Contractor for the cost of performing the work by deducting this cost from the partial payments due the Contractor as these costs are incurred by the City.

Any damage that results in the inoperation of street lighting shall be the Contractor's responsibility. The Contractor, at their sole expense, shall restore the street lighting to current City standards before dark to the satisfaction of the Engineer. If the Contractor fails to restore the street lighting before dark, the City will restore the lighting at the Contractor's expense. The City shall charge the Contractor for the cost of performing the work by deducting this cost from the partial payments due the Contractor as these costs are incurred by the City. Permanent repairs to the lighting system shall be made by the Contractor at their sole expense to the satisfaction of the Engineer.

All repairs made to any City signal, lighting and electrical system shall be made to current City standards.

86-2.04 **Standards, Steel Pedestal and Posts** - Unless otherwise indicated on the plans or in the special provisions, all signal and lighting standards are to be galvanized and shall conform to Section 86-2.04, "Standards, Steel Pedestals and Posts" of the SS, and to Plan No. ES-6B of the State Standard Plans. Painting of galvanized signal or lighting standards shall not be done unless directed by the Engineer. Unless otherwise indicated on the plans or in the special provisions, lighting standards are to be galvanized CalTrans Type 15 and service enclosures shall be stainless steel CalTrans type IIIAF.

86-2.04A **Octafluted Lighting Standards** - Section 86-2.04(A) "Octafluted Lighting Standards" of the SJSS is hereby deleted and does not apply to City of Campbell contracts, except for the last paragraph of this section which shall apply.

86-2.04B **Signal Standards** - The first paragraph of Section 86-2.04(B) "Signal Standards" of the SJSS is hereby deleted.

86-2.05 **Conduit** - All conduit entering foundations of controller cabinets, lighting standards and signal standards shall be GRS.

86-2.05B **Use** - The first sentence of the first paragraph of Section 86-2.05(B), "Use" of the SJSS is hereby replaced with the following.

Conduit that is installed underground shall be Schedule 40 PVC unless otherwise indicated on the plans or in the special provisions. Conduit that is installed in concrete foundations for standards or cabinets shall be GRS unless otherwise specified in the plans or special provisions.

86-2.05C **Installation** - The second, third, and fourth paragraphs of Section 86-2.05C "Installation" of the SJSS are hereby deleted and the following paragraphs are hereby added.

Unless otherwise approved by the Engineer, conduit crossing the roadway shall be installed under existing pavement stripes. Contractor shall restripe the removed pavement markings using the same materials as the removed unless otherwise directed by the Engineer.

Conduit installation shall be in accordance with the City of Campbell Details for Signal, Lighting and Electrical Conduit Installation, unless otherwise specified on the plans or in the special provisions. All conduits entering foundations for standards and cabinets shall be GRS unless otherwise specified on the plans or in the special provisions.

86-2.06B **Cover Markings** - In all instances, replace "CSJ" with "CAMPBELL".

86-2.09C **Connectors and Terminals** - Section 86-2.09C "Connectors and Terminals" of the SJSS is hereby deleted and replaced with the following.

Connectors and terminals shall conform to Section 86-2.09C of the SS and to the following.

All conductors no. 10 AWG or smaller which are to be installed on a field wiring terminal block in the cabinet and all solid conductors which are to be installed on any terminal block in the cabinet shall be fitted with a medium length, spring spade type connector (Hollingsworth #SS20891B or SS20830B or approved equal). The connector shall be crimped and then soldered to the conductor. Open flame soldering will not be permitted.

86-2.09E **Splice Insulation** - Section 86-2.09E "Splice Insulation" of the SJSS is hereby deleted and replaced with the following.

Splice insulation shall conform to Section 86-2.09E of the SS and to the following.

Heat shrinkable insulating tubing shall be applied after completion of the splicing procedure. Insulation over the splice connection shall consist of a heat shrinkable, mastic lined, heavy wall polyolefin cable sleeve, or cover, to which heat shall be applied at a temperature greater than 120 degrees C. with an electric hot air gun until the sleeve or cover shrinks and covers the connector and the mastic material has flowed completely around and between the conductor(s) to form a waterproof insulation. The conductor insulation shall not be damaged due to application of the heat shrinkable insulation sleeve. The proper diameter of the insulation sleeve shall be used as recommended by the manufacturer for the splice to be insulated. Heat shrinkable tubing shall be T & B brand, "Shrink-Kon" series or approved equal.

86-2.09F **Fused Splice Connector** - The first sentence of the fifth paragraph of Section 86-2.09F "Fused Splice Connector" of the SJSS is hereby deleted and replaced with the following.

A fused disconnect splice connector shall be located in the pull box adjacent to the lighting standard when fed from underground wiring systems. Existing lighting standards which are underground-fed and do not have an adjacent pull box shall have the fused disconnect splice connector located in the base of the lighting standard directly behind the hand hole and it shall be readily accessible.

Paragraph nine of this section is hereby replaced with the following.

Fuses for individual street light fusing applications shall be general purpose, non-time delay types "BAF" or "BAN" and shall be rated 6A, 250V AC for 120V applications and 3A, 250V AC for 240V applications.

86-2.09G **Traffic Signal Communications Cable** - Section 86-2.09G "Traffic Signal Communications Cable" of the SJSS is hereby deleted and replaced with the following.

The Traffic Signal Communications Cable, also referred to as the Signal Interconnect Cable (SIC) shall conform to Section 86-2.08E "Signal Interconnect Cable" of the SS, and to the following.

The Signal Interconnect Cable shall consist of six (6) twisted pairs. Unless otherwise indicated on the plans, in the special provisions, or as directed by the Engineer, splicing of the SIC is not allowed. The SIC shall run continuously and unspliced from one cabinet to the next cabinet.

86-2.09G3 **Traffic Signal Communications Cable Testing** - Section 86-2.09G3 "Traffic Signal Communications Cable Testing" of the SJSS is hereby deleted and replaced with the following.

The testing of the Traffic Signal Communications Cable shall conform to the requirements of the special provisions.

86-2.10 **Bonding and Grounding** - Paragraph 6 of Section 86-2.10 "Bonding and Grounding" of the SJSS is hereby deleted and replaced with the following.

A number 8 AWG or larger bare, stranded copper equipment grounding conductor shall be provided in all PVC conduits carrying any traffic signal conductor, street lighting conductor, metered signal service conductor, metered irrigation service conductor, detector lead-in (DLC) cable or signal communications/signal interconnect (SIC) cable. A number 8 AWG or larger bare, stranded copper equipment grounding conductor shall be provided in any PVC conduit left empty for future use.

Only the conduit between the loop detector hand hole and the pull box where the loop conductors are spliced in the DLC('S) shall not require any copper equipment grounding conductor.

86-2.11 **Service** - Paragraph seven of Section 86-2.11 "Service" of the SJSS is hereby deleted and replaced with the following.

Unless otherwise indicated on the plans or in the special provisions, service equipment shall be Type III-AF and shall conform to Section 86-2.11 "Service" of the SS and to Plan No. ES-2E of the State Standard Plans and to the following.

The service equipment enclosure shall be fabricated from stainless steel. The pedestal shall be for 120/240 volt, 3 wire, single phase, metered and unmetered (split bus) service and the following circuit breakers and items shall be provided in the service pedestal:

- 1) MAIN breaker: 1 each 100 amp, 3 pole, 120/240 volt, split bus
- 2) SIGNAL breaker: 1 each 60 amp, 1 pole, 120 volt, metered
- 3) LIGHTING breaker: 1 each 40 amp, 2 pole, 240 volt, unmetered
- 4) LTG. CONTROL breaker: 1 each 15 amp, 1 pole, 120 volt, unmetered
- 5) AUX. breaker: 1 each 15 amp, 1 pole, 120 volt, metered
- 6) AUTO/TEST lighting test switch
- 7) Lighting contactor: 1 each, 2 pole, 240 volt, 120 volt coil, 60 amp rating per pole, mercury displacement type
- 8) PEC (photo electric control) field wire connection terminal block

86-2.16 **Painting** - Unless otherwise indicated on the plans or in the special provisions, all signal and lighting standards shall be galvanized and shall not be painted.

86-4.05B **Front Screen** - The following is hereby added to Section 86-4.05B "Front Screen" of the SJSS.

The pedestrian signal door shall not be plastic.

86-4.06 **Signal Mounting Assemblies** - The first paragraph of Section 86-4.06 "Signal Mounting Assemblies" of the SJSS is hereby deleted and replaced with the following.

Signal Mounting Assemblies shall conform to Section 86-4.06 "Signal Mounting Assemblies" of the SS and to the following.

Terminal compartments, post top adapters and pole plates shall be cast bronze. "Clam shell" mounts shall not be used.

Painting of all signal heads and signal mounting assemblies shall be done with a powder coating process and shall be dark olive green. In order to prevent damage to the powder coating, the Contractor shall use a woven fabric strap wrench to assemble, modify or tighten signal mounting assemblies.

86-5.01 **Vehicle Detectors** - The following is added to Section 86-5.01 "Vehicle Detectors" of the SJSS.

Unless otherwise specified, all sawcut loops shall be CalTrans Type E and shall conform to the CalTrans Standard Specifications and Standard Plan Details for this type of loop.

All vehicle detector lead in cables shall be run to a CalTrans Type "A" detector handhole placed at the lip of gutter. Type A Detector Handhole shall be per CalTrans Standard Plan detail ES-5E.

86-5.02 **Pedestrian Push Buttons** - The following is hereby added to Section 86-5.02 "Pedestrian Push Buttons" of the SJSS.

Push button signs and push button switch caps shall be fastened to the housings with stainless steel, phillips head screws.

86-6.00 **Luminaire Class and Types** - The following sentence is hereby added to Section 86-6.00 "Luminaire Class and Types of the SJSS.

Prior to purchase of any lighting fixtures, the Contractor shall obtain from the manufacturer of the proposed lighting fixture the photometric data/isolux curve in standard IES format for use in an IBM PC for approval by the Engineer.

SECTION 1301

TRENCH EXCAVATION, BEDDING AND BACKFILL

1301-1.4 **Survey Monuments and Points** - The following is hereby added to Section 1301-1.4 "Survey Monuments and Points" of the SJSS.

Tying out of monuments, property corners and/or survey points shall be the Contractor's responsibility and shall be done by an individual licensed to perform such work. All costs associated with tying out such monuments, property corners and/or survey points and resetting such facilities shall be borne by the Contractor.

1301-1.6 Backfill and Surface Restoration Methods - The last sentence and Table 1301-1 of Section 13-1-1.6 "Backfill and Surface Restoration Methods" of the SJSS are hereby deleted and replaced with the following.

Backfill and surface restoration shall be per the City of Campbell Details unless otherwise specified in the special provisions.

1301-4.1.1 Type of Bedding - Table 1301-2 of Section 1301-4.1.1 "Type of Bedding" of the SJSS is hereby amended to require Type A bedding for all sizes of concrete pipe.

1301-4.2 Backfill and Surface Restoration - The first paragraph of Section 1301-4.2 "Backfill and Surface Restoration" of the SJSS is hereby revised as follows.

Surface restoration shall be in accordance with the City of Campbell Details, unless otherwise specified in the special provisions.

1301-4.2.1 Method A Backfill and Surface Restoration - The following is hereby added to the first paragraph of Section 1301-4.2.1 "Method A Backfill and Surface Restoration" of the SJSS, and the last two paragraphs of this section are hereby deleted.

... and (4) All emergency utility repairs. Restoration shall be in accordance with the City of Campbell Details for Method A Backfill and Surface Restoration, unless otherwise specified in the plans or special provisions.

1301-4.2.2 Method B Backfill and Surface Restoration - Section 1301-4.2.2 "Method B Backfill and Surface Restoration" of the SJSS is hereby deleted and replaced with the following.

Method B backfill and surface restoration shall be used on all sewer and utility line trenches which are excavated in the general longitudinal direction of traffic and in areas outside of the traveled way. Restoration shall be in accordance with the City of Campbell Detail for Method B Backfill and Surface Restoration, unless otherwise specified in the plans or special provisions. Jetting shall not be allowed unless approved in writing by the Engineer.

1301-4.2.3 Method C Backfill - Section 1301-4.2.3 "Method C Backfill" of the SJSS is hereby deleted.

1301-4.2.6 Water Densified Backfill - The following sentence is hereby added to Section 1301-4.2.6 "Water Densified Backfill" of the SJSS.

Jetting shall not be allowed unless approved by the Engineer or specified in the special provisions.

SECTION 1307

ACCEPTANCE TESTS FOR SEWERS

1307-3 **Television Inspection** - Section 1307-3, "Television Inspection" of the SJSS shall apply to installation of storm drain mains within the City of Campbell.

1307-4 **Measurement and Payment** - Section 1307-4, "Measurement and Payment" of the SJSS is hereby incorporated and applied to the television inspection process for storm drain facilities.

SECTION 1308

CLEANING PIPELINES

1308-2 **Flushing and Cleaning** - Section 1308-2 "Flushing and Cleaning" of the SJSS is hereby amended to read as follows.

After the storm pipe has been installed and the trench backfill has been completed, the Contractor shall flush and clean all mains, laterals, and catch basins to be free of all debris. The Contractor shall install screens in a downstream manhole to collect debris. All debris shall be collected in a downstream manhole and shall not be allowed to migrate to other portions of the system or outfall. The Contractor shall remove and dispose of debris collected.

1308-3 **Measurement and Payment** - Section 1308-3, "Measurement and Payment" of the SJSS is hereby amended to read as follows.

The work specified in this section will not be separately measured for payment. Full compensation for providing all of the items necessary to accomplish the cleaning of pipe lines in accordance with these specifications, the special provisions, and as directed by the Engineer shall be considered to be included in the various contract unit prices paid for the storm pipe and no additional compensation will be allowed therefor.

DETAILS

The City of San Jose Standard Details (SJSD) dated July 1992 are hereby incorporated with the following revisions and additions.

<u>SJSD #</u>	<u>REVISION</u>
All	All references to the City of San Jose shall be revised to read City of Campbell. All abbreviations "CSJ" shall be revised to read "CAMPBELL".
R-2	Replace with City of Campbell Details 1 and 2.
R-5, R-6, R-7	Replace with City of Campbell Details 3 and 4.
R-8, R-9, R-10, R-11	Replace with CalTrans Standard Plans NSP A88 and A89.
D-5	Replace with City of Campbell Detail 5.
D-6	Replace with City of Campbell Detail 6.
L-3	Quick coupling valve shall be installed below the finished grade in a pcc irrigation box.
L-13	Tree planting shall conform to City of Campbell Details 12 and 13.
L-14	Replace with City of Campbell Details 12 and 13.
All W Details	Delete.
All E Details	All references contained in the City of San Jose Electrical, Signals, and Lighting Details to octaflute standards shall be revised to read Type 15 standards (per CalTrans Standards Plans).
	Pull boxes are required at the base of all standards.
	All conduit entering foundations of controller cabinets, lighting standards, and signal standards shall be GRS.

- E-07 Detail shall be revised to incorporate the fuse splice connector (fuse holder as shown in SJSD E-08) in the pull box.
- E-08 Detail shall eliminate fuse splice connector (fuse holder). Fuse holder to be located in pull box adjacent to standard.
- Fuses for 240V application as shown shall be rated 3A, not 10A.
- Conduit into foundation shall be GRS, not PVC as shown.
- Delete note #2.
- E-9, E-11,
E-12, E-13,
E-14 Replace octaflute lighting standard with galvanized Type 15 and foundation dimensions per CalTrans Standard Plans ES-6B for Type 15.
- E-15 Delete
- E-16 Delete
- E-17 Delete
- E-18 Foundation dimensions shall be per CalTrans Standard Plans ES-6B for Type 15. All other details shown on SJSD E-18 shall apply.
- E-19 Delete
- E-20 Delete
- E-23 Delete
- E-24 Delete
- E-25 Delete
- E-26 Delete
- E-27 Delete
- E-28 Delete
- E-29 Delete
- E-30 Delete
- E-31 Delete
- E-32 Delete
- E-33 Delete
- E-34 Revise detail to remove connection between neutral and ground rod. Do not connect any neutral in any pull box to ground rod.
- All street lighting shall be 2-wire 240V.
- E-35 Delete

- E-36 Revise detail to remove connection between neutral and ground rod. Do not connect any neutral in any pull box to ground rod.
- All street lighting shall be 2-wire 240V.
- E-37 Delete notes 12 and 13.
- E-38 Delete
- E-39 Delete
- E-41 Delete item #15. (Do not splice service neutral to pole bonding system.)
- E-42 Delete item #22. (Do not splice neutral to pole bonding system.)
- E-43 Delete
- E-44 Delete
- E-45 Delete
- E-46 Conduit in standard foundation shall be GRS not PVC as shown.
- E-47 Conduit in standard foundation shall be GRS not PCGRS as shown.
- E-48 Delete #8 AWG neutral conductor from ground clamp up pole. (Do not bond pole to service neutral.)
- E-49 Conduit in standard foundation shall be GRS not PVC.
- E-50 Conduit in standard foundation shall be GRS not PCGRS.
- E-51 Conduit in cabinet foundation shall be GRS not PVC.
- E-52 Conduit in cabinet foundation shall be GRS not PCGRS.
- E-53 Note 7 shall be replaced with the following:
- Fuses for individual street light fusing applications shall be general purpose, non-time delay types "BAF" or "BAN" and shall be rated 6A, 250V AC for 120V applications and 3A, 250V AC for 240V applications.
- Note 8 shall be replaced with the following:
- Fuse each street light luminaire individually as specified in note 7 of this detail.

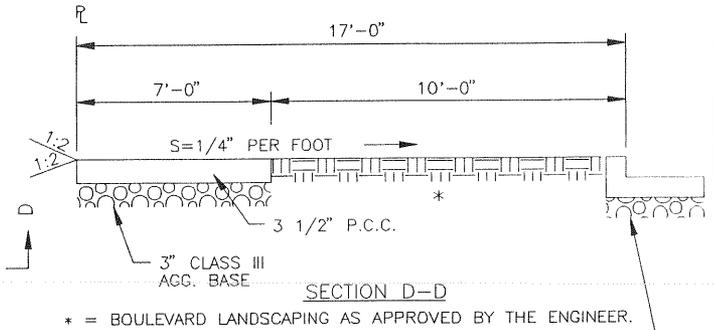
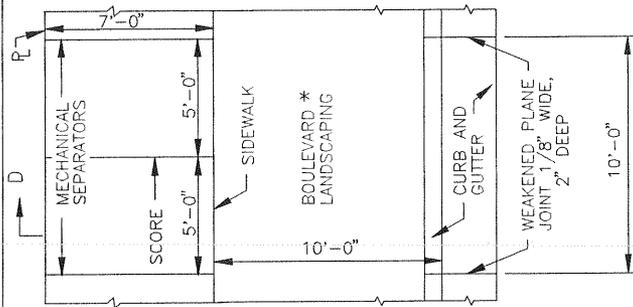
Note 11 shall be revised to reflect fuses installed in the pull box.

E-55	Delete
E-57	Delete
E-58	Delete
E-59	Delete
E-62	Delete
E-63	Delete
E-64	Delete
E-65	Delete
E-66	Delete
E-67	Delete
E-69	Delete
E-70	Delete

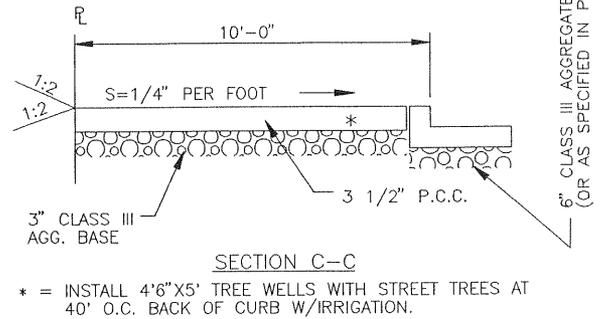
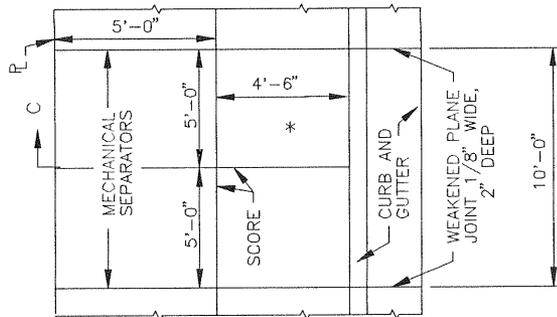
The following additional details are also hereby added:

Detail 7	Trench Restoration - Method A Backfill and Surface Restoration
Detail 8	Trench Restoration - Method B Backfill and Surface Restoration
Detail 9	Signal, Lighting, and Electrical Conduit Installation Rockwheel Trench - Pavement Areas
Detail 10	Signal, Lighting, and Electrical Conduit Installation Walkway Areas
Detail 11	Signal, Lighting, and Electrical Conduit Installation Unimproved/Landscaped Areas

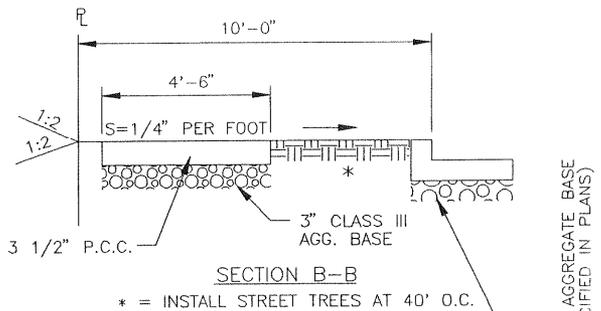
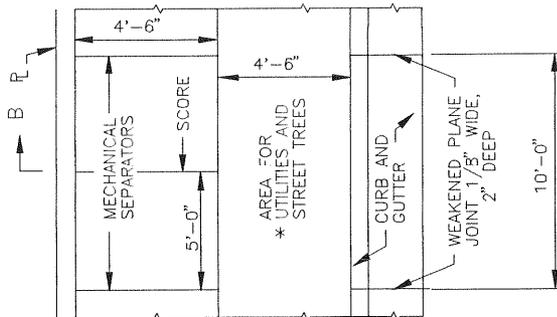
BOULEVARD WALK



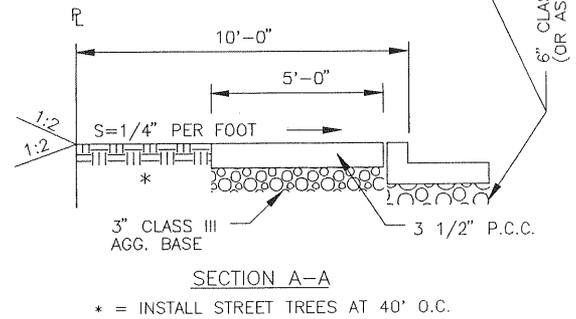
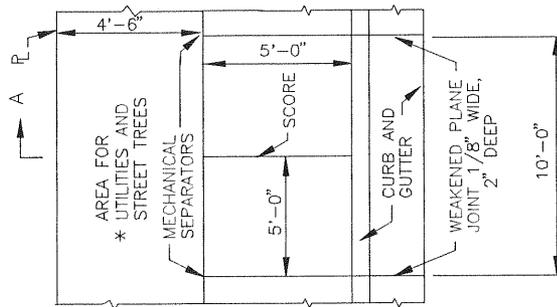
COMMERCIAL WALK



RESIDENTIAL SEPARATED WALK



RESIDENTIAL MARGINAL WALK



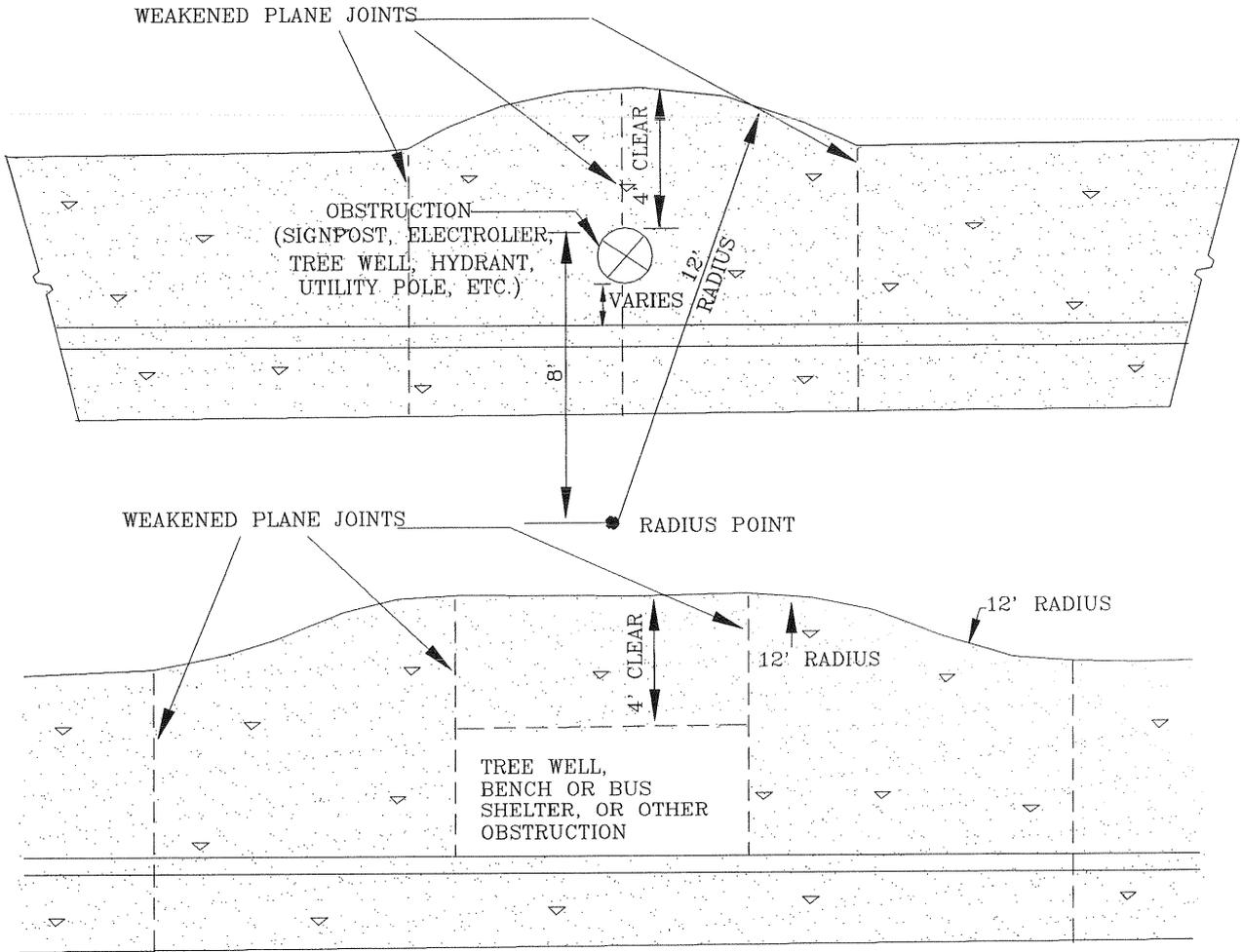
CURB, GUTTER, AND SIDEWALK CONFIGURATIONS

REVISED
DATE: JULY 1994

DRAWN BY: *CSA* CHECKED BY: *MD*
APPROVED: *CSA*

CITY OF CAMPBELL

DETAIL 1



NOTE: WIDEN SIDEWALK AS SHOWN WHEN ANY PART OF AN OBSTRUCTION IS WITHIN 4 FEET OF THE BACK OF WALK AND LESS THAN 5 FEET FROM THE FACE OF CURB.

PEDESTRIAN EASEMENT DEDICATION IS NECESSARY IF WIDENING EXTENDS BEYOND THE PUBLIC RIGHT OF WAY.

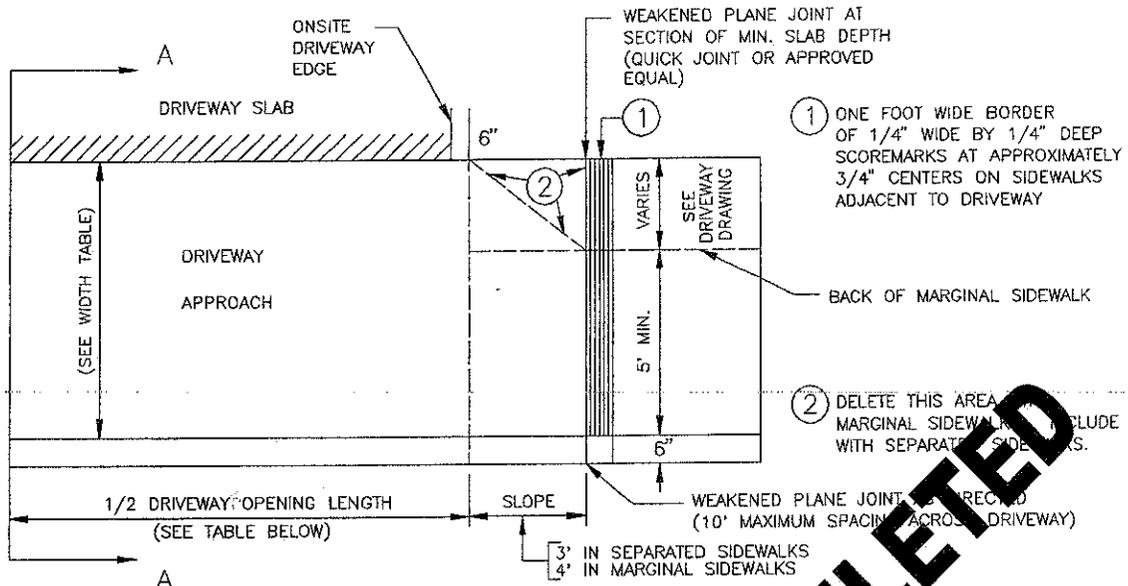
SIDEWALK WIDENING TO CLEAR OBSTRUCTIONS

REVISED
DATE: JULY 1994

DRAWN BY *CAD* CHECKED BY *MLL*
APPROVED *JLR*

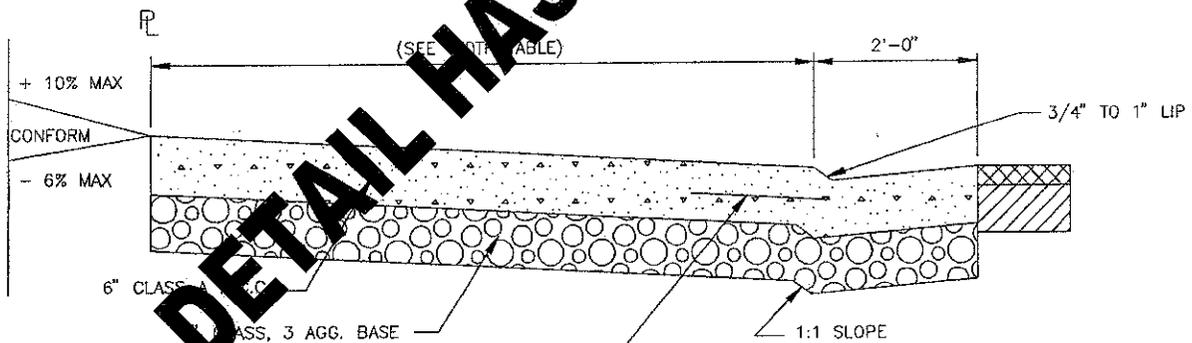
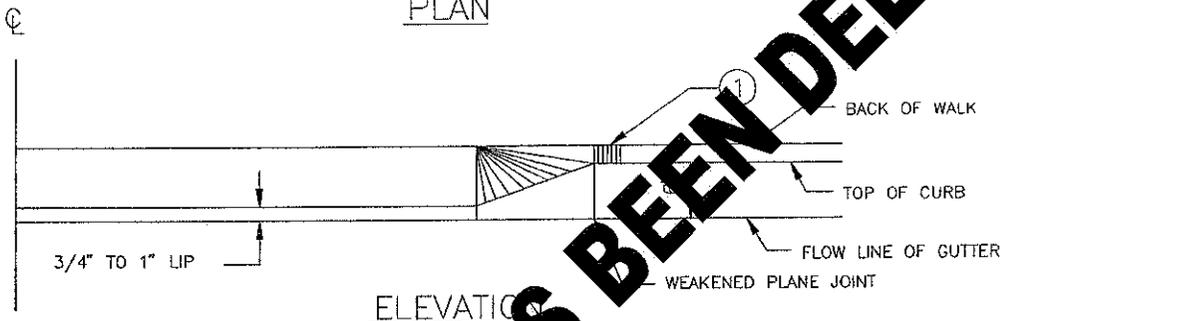
CITY OF CAMPBELL

DETAIL 2



PLAN

DRIVEWAY SYMMETRICAL ABOUT CL



WHEN THE DRIVEWAY IS NOT POURED AT SAME TIME AS CURB AND GUTTER, 12" OF NO. 4 REBAR AT 4' INTERVALS SHALL BE INSTALLED AS SHOWN. (REBARS TO BE BENT DOWN AND COVERED UNTIL USED.)

LAND USE		1/2 LENGTH	WIDTH
COMMERCIAL & MULTI-RESIDENTIAL	MIN	7'-0" ONE-WAY 12'-6" TWO-WAY	TO PROP. LINE
	MAX	20'-0"	WITH 8'-0" MIN.
SINGLE-FAMILY RESIDENTIAL	MIN	6'-0"	TO PROP. LINE
	MAX	12'-6"	WITH 5'-6" MIN.

NOTES:

DRIVEWAY APPROACHES (EXCEPT SINGLE FAMILY) SHALL HAVE 6" X 6" X 10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.

DOWEL ALL NEW CONCRETE IMPROVEMENTS TO EXISTING CONCRETE IMPROVEMENTS.

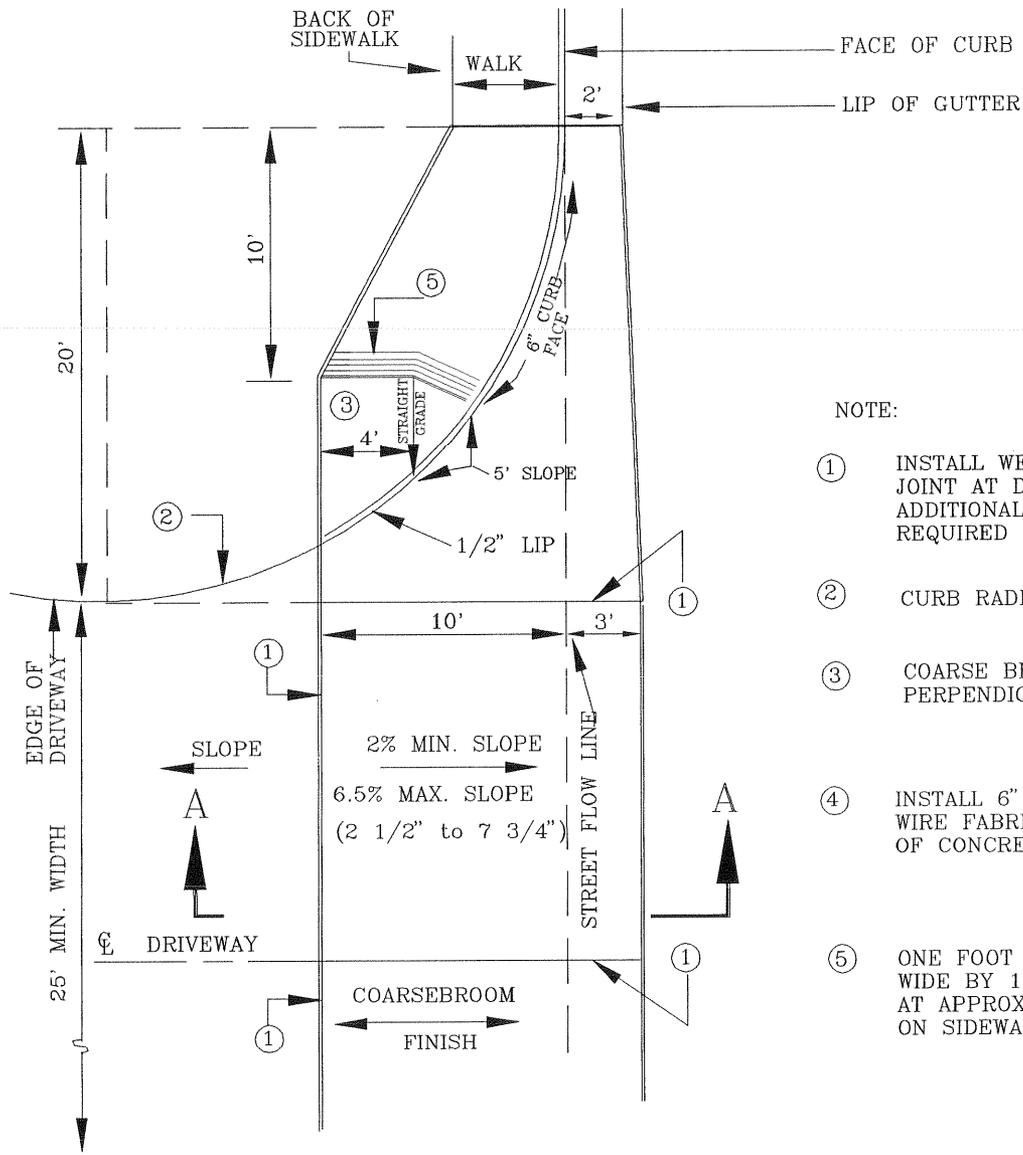
REVISED
DATE: JULY 1994

DRAWN BY: CAP CHECKED BY: *me*
APPROVED: *[Signature]*

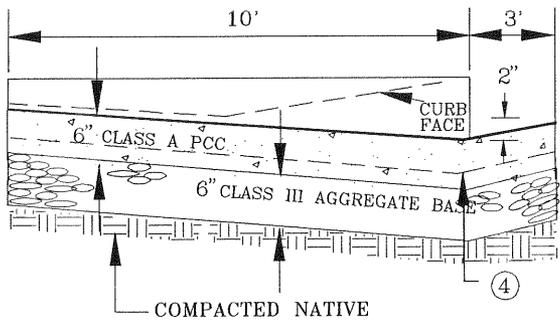
DRIVEWAY APPROACH

CITY OF CAMPBELL

DETAIL 3



- NOTE:
- ① INSTALL WEAKENED PLANE DEEP JOINT AT DRIVEWAY CENTERLINE. ADDITIONAL JOINTS MAY BE REQUIRED IN WIDER APPROACHES.
 - ② CURB RADIUS SHALL BE 20 FEET.
 - ③ COARSE BROOM FINISH PERPENDICULAR TO STREET.
 - ④ INSTALL 6" x 6" 10/10 WELDED WIRE FABRIC 3" ABOVE BOTTOM OF CONCRETE.
 - ⑤ ONE FOOT WIDE BORDER OF 1/4" WIDE BY 1/4" DEEP SCOREMARKS AT APPROXIMATELY 3/4" CENTERS ON SIDEWALK ADJACENT TO RAMP.



SECTION A-A

ALLEY-TYPE APPROACH MAY BE USED ONLY WHERE SPECIFICALLY APPROVED BY THE PUBLIC WORKS DEPARTMENT.

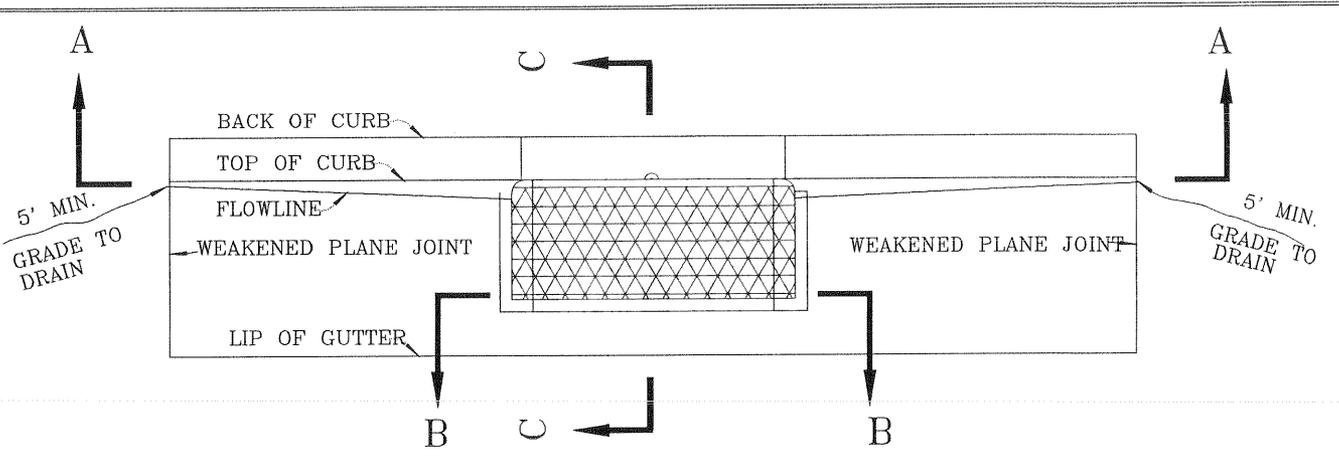
REVISED
DATE: JULY 1994

DRAWN BY *CPD* CHECKED BY *ML*
APPROVED *[Signature]*

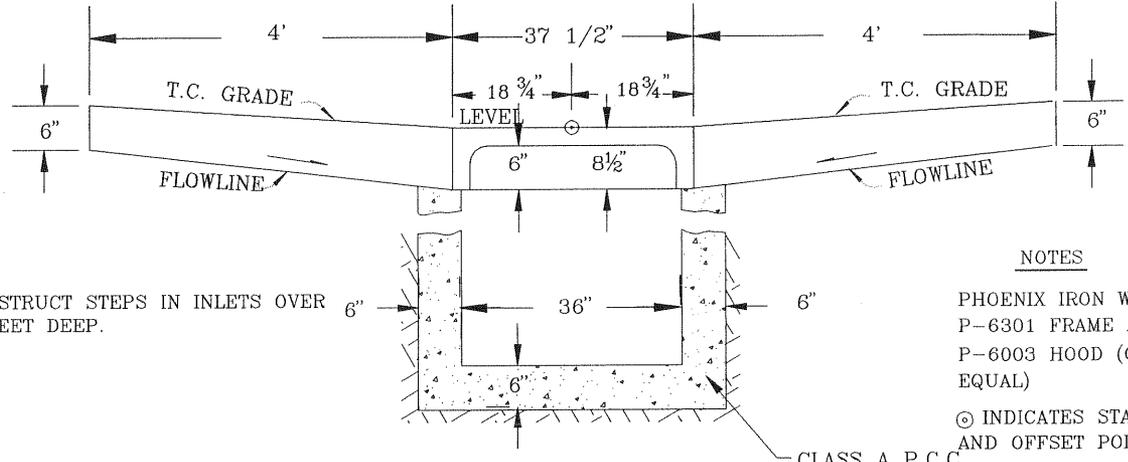
ALLEY-TYPE APPROACH

CITY OF CAMPBELL

DETAIL 4



PLAN

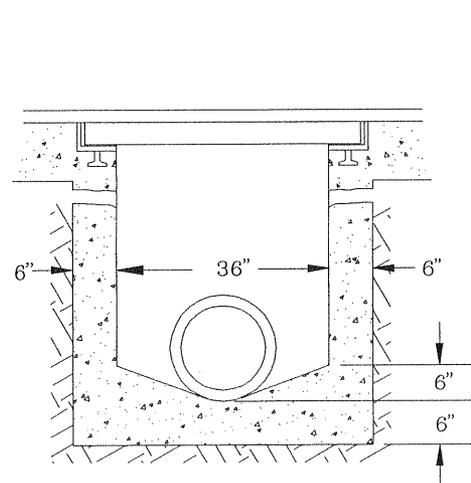


CONSTRUCT STEPS IN INLETS OVER 3 FEET DEEP.

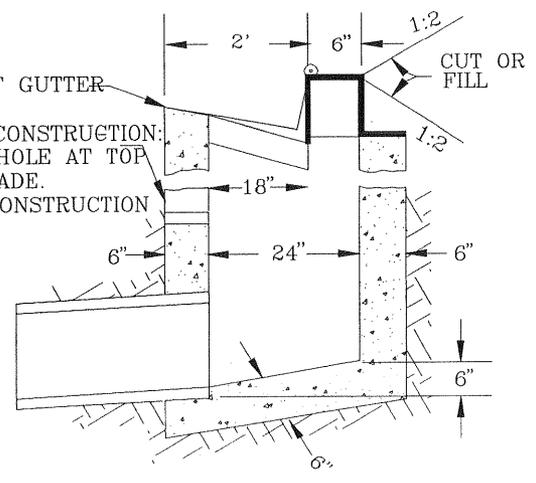
NOTES

PHOENIX IRON WORKS NO. P-6301 FRAME AND GRATE P-6003 HOOD (OR APPROVED EQUAL)
 © INDICATES STATION, GRADE, AND OFFSET POINT.
 CLASS A P.C.C.

SECTION A-A



SECTION B-B

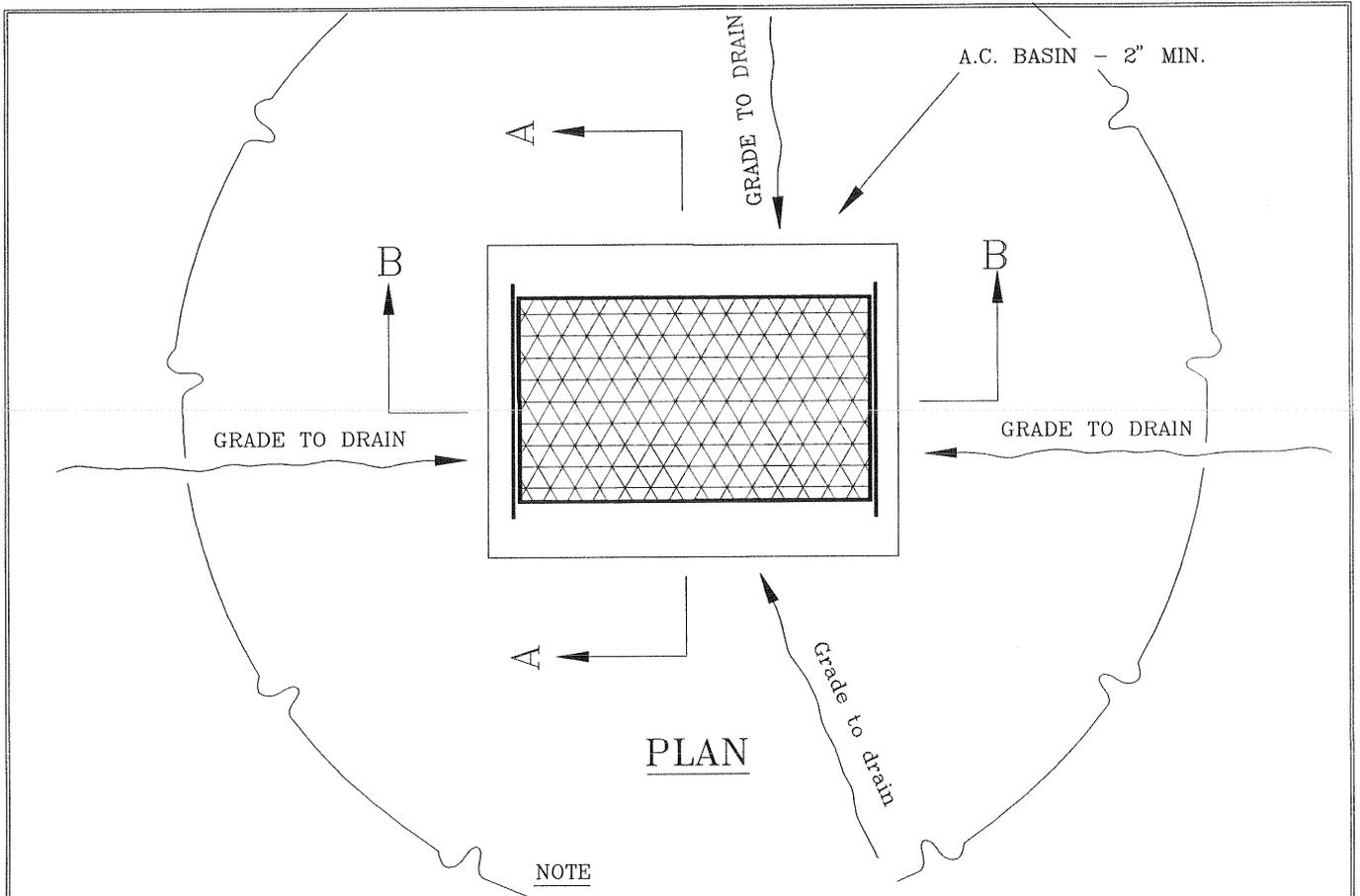


SECTION C-C

REVISED
DATE: JULY 1994
DRAWN BY *CAJ* CHECKED BY *ML*
APPROVED *JW*

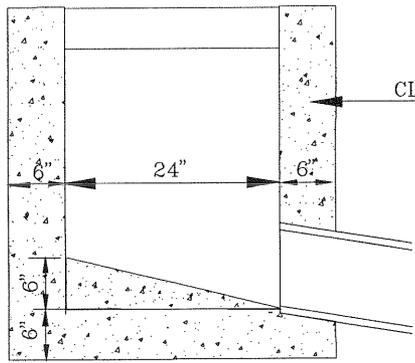
DRAINAGE INLET
CITY OF CAMPBELL

DETAIL 5



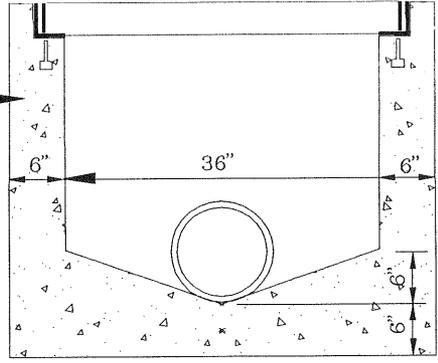
NOTE

1. INSTALL PHOENIX IRON WORKS P6302 FRAME AND GRATE (OR APPROVED EQUAL).
2. INSTALL A.C. BASIN IN A 5' RADIUS AROUND INLET.
3. GRADE TO DRAIN, 5' MIN. PAST BASIN IN ALL DIRECTIONS, UNLESS OTHERWISE SPECIFIED.



SECTION A-A

CLASS A P.C.C.



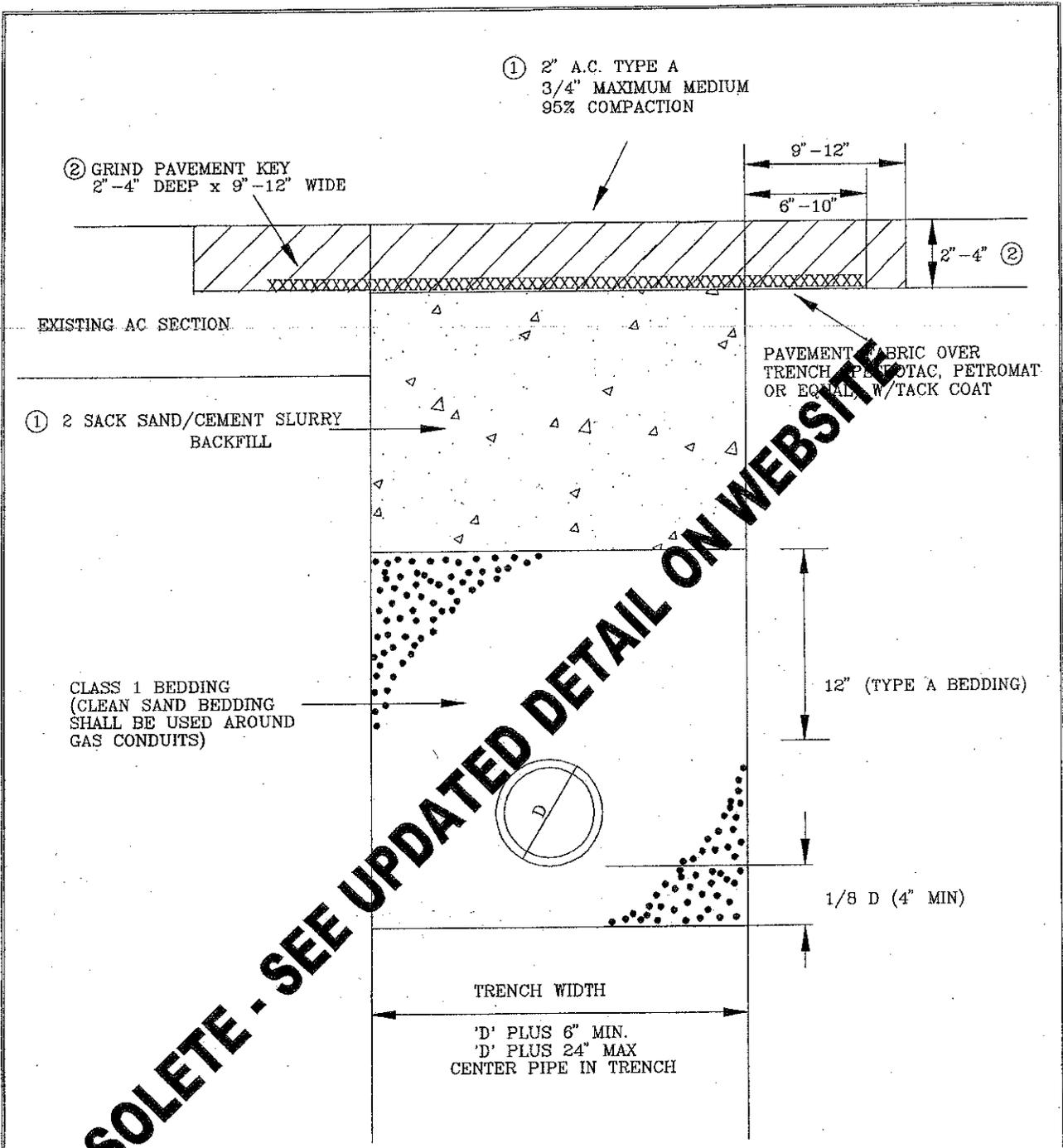
SECTION B-B

REVISED
DATE: JULY 1994

DRAWN BY *CAO* CHECKED BY *MR*
APPROVED *[Signature]*

FLAT GRATE INLET
CITY OF CAMPBELL

DETAIL 6



- NOTES: ① PLACE PERMANENT PAVEMENT WITHIN FIVE (5) DAYS AFTER BACKFILLING AN EXCAVATION. (STEEL PLATING REQUIRED DURING CURING PERIOD OF 3 DAYS MIN. - 5 DAYS MAX.)
- ② IF EXISTING AC SECTION IS LESS THAN 4". GRIND AC KEY TO FULL DEPTH OF EXISTING AC AND REPLACE FULL DEPTH AC SECTION (MIN. 2")
- ③ THIS DETAIL DOES NOT APPLY TO ELECTRICAL CONDUIT INSTALLATION

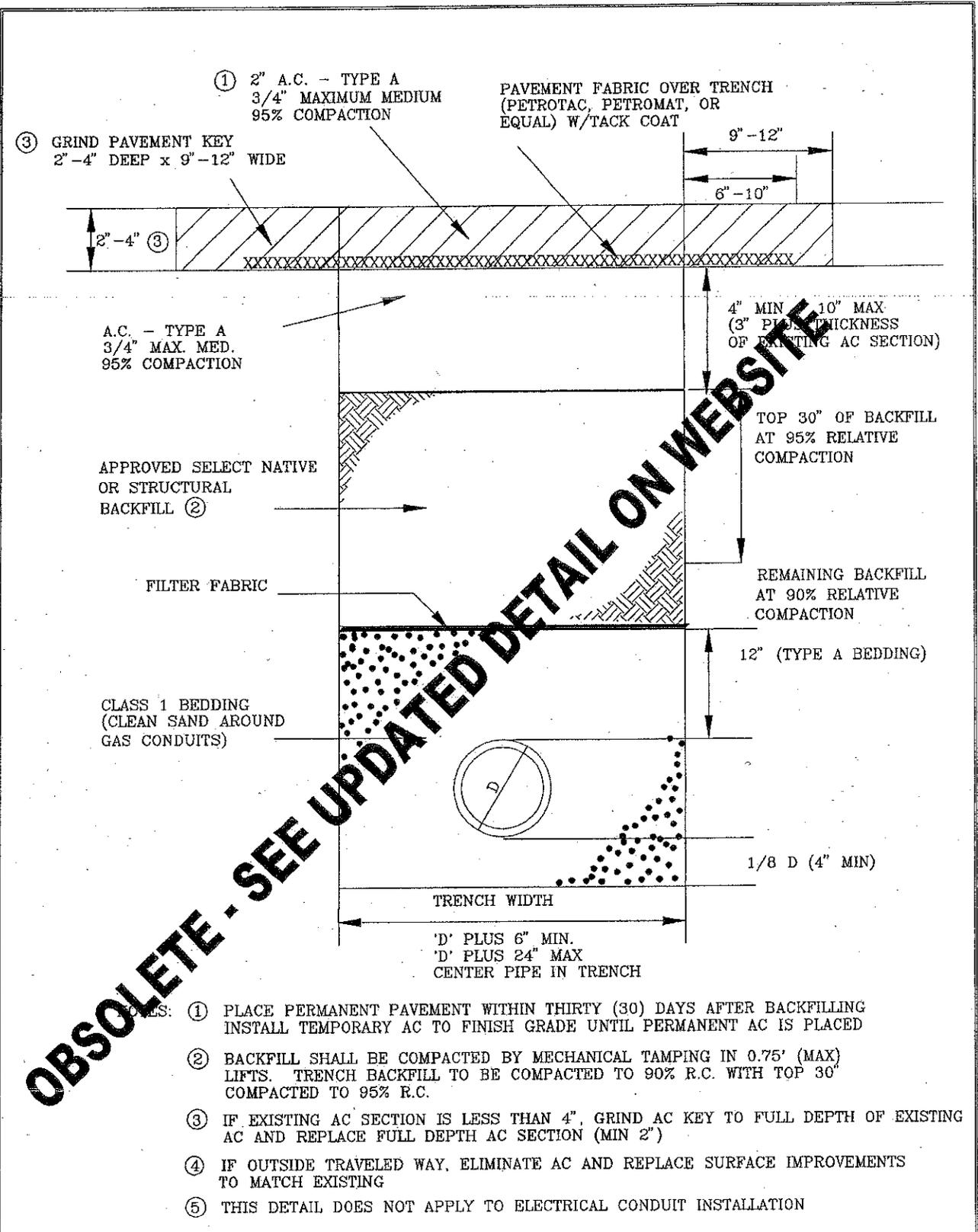
TRENCH RESTORATION - METHOD A
Backfill and Surface Restoration

REVISED
DATE: JULY 1994

DRAWN BY CAD CHECKED BY MO
APPROVED [Signature]

CITY OF CAMPBELL

DETAIL 7



OBSOLETE - SEE UPDATED DETAIL ON WEBSITE

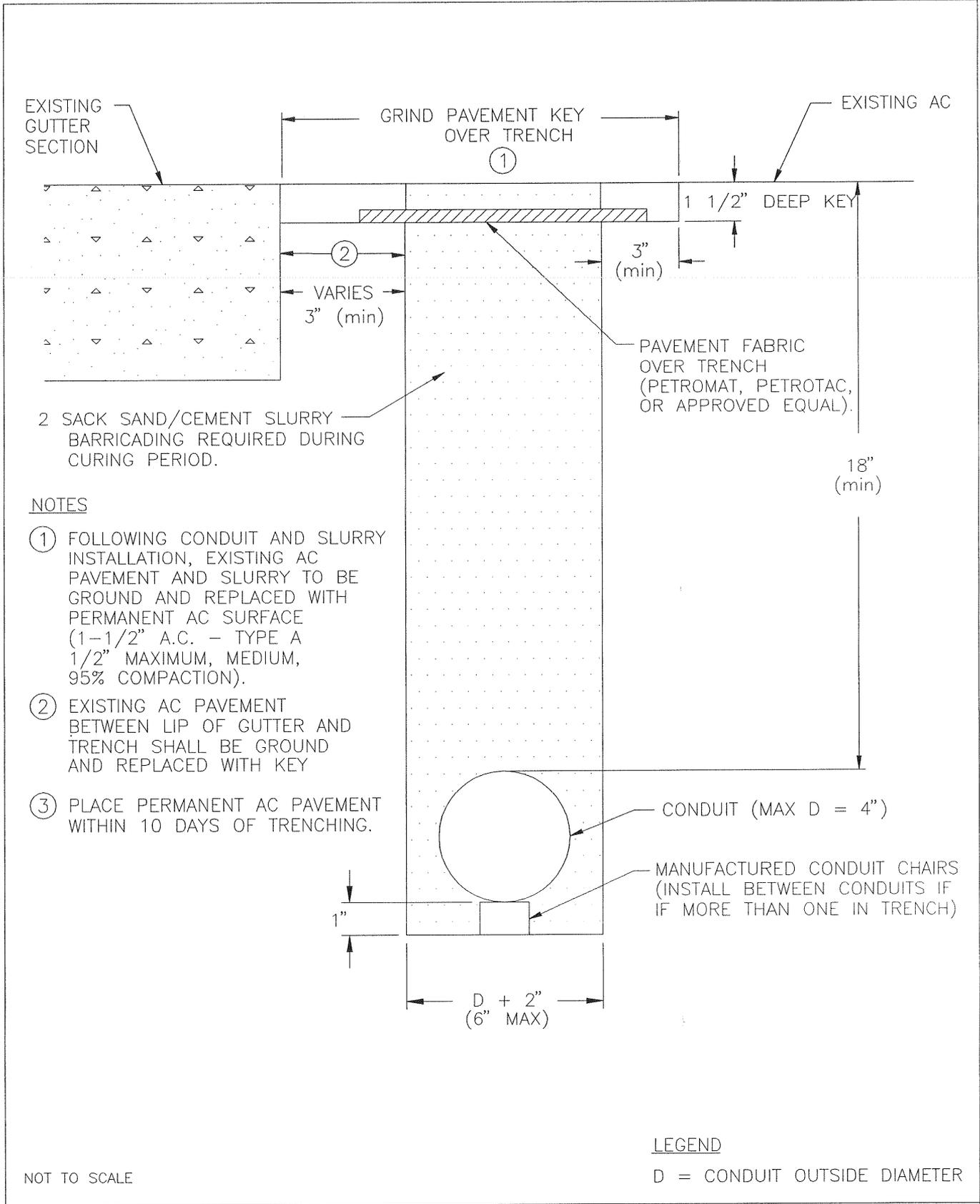
TRENCH RESTORATION - METHOD B
Backfill and Surface Restoration

REVISED
DATE: JULY 1994

DRAWN BY CAO CHECKED BY MW
APPROVED [Signature]

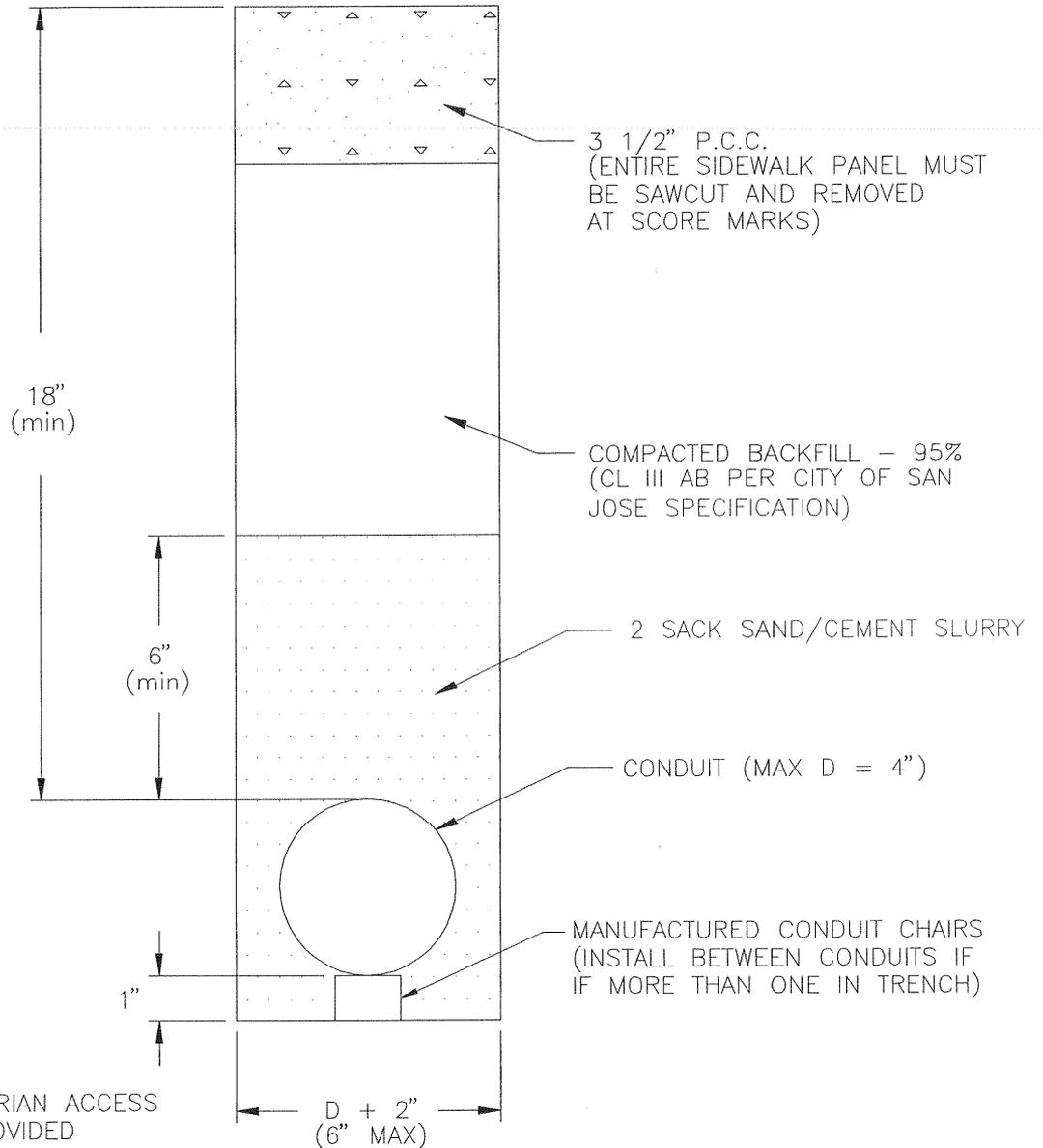
CITY OF CAMPBELL

DETAIL 8



NOTES

- ① FOLLOWING CONDUIT AND SLURRY INSTALLATION, EXISTING AC PAVEMENT AND SLURRY TO BE GROUND AND REPLACED WITH PERMANENT AC SURFACE (1-1/2" A.C. - TYPE A 1/2" MAXIMUM, MEDIUM, 95% COMPACTION).
- ② EXISTING AC PAVEMENT BETWEEN LIP OF GUTTER AND TRENCH SHALL BE GROUND AND REPLACED WITH KEY
- ③ PLACE PERMANENT AC PAVEMENT WITHIN 10 DAYS OF TRENCHING.



NOTES

- ① SAFE PEDESTRIAN ACCESS MUST BE PROVIDED AROUND WORK AREA.
- ② PERMANENT IMPROVEMENTS SHALL BE INSTALLED WITHIN 5 DAYS OF TRENCHING.

LEGEND

D = CONDUIT OUTSIDE DIAMETER

NOT TO SCALE

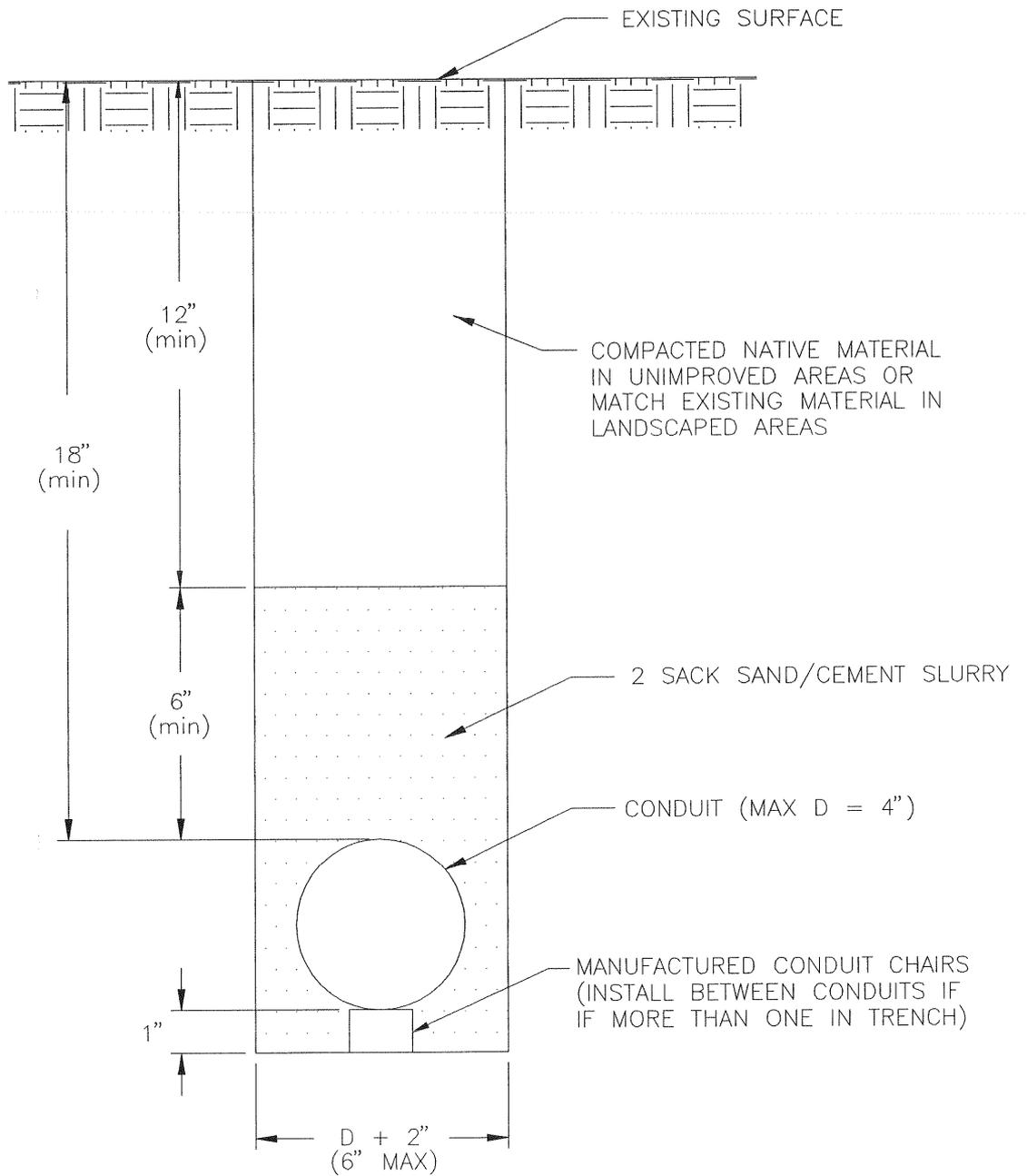
SIGNAL, LIGHTING, AND ELECTRICAL CONDUIT INSTALLATION
WALKWAY AREAS

REVISED
DATE: JULY 1994

DRAWN BY: *CAD* CHECKED BY: *MD*
APPROVED: *[Signature]*

CITY OF CAMPBELL

DETAIL 10



NOT TO SCALE

LEGEND

D = CONDUIT OUTSIDE DIAMETER

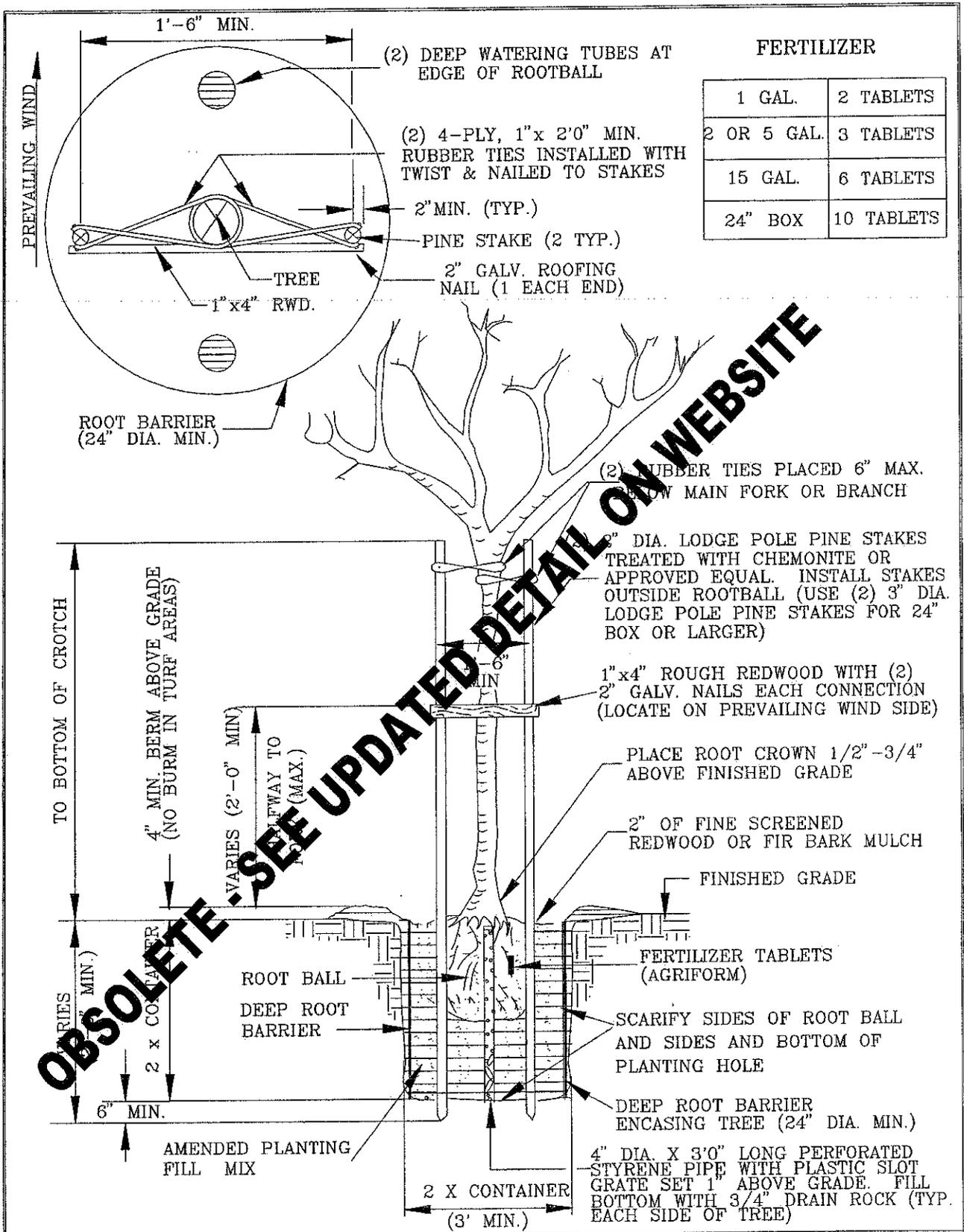
SIGNAL, LIGHTING, AND ELECTRICAL CONDUIT INSTALLATION
UNIMPROVED/LANDSCAPED AREAS

REVISED
DATE: JULY 1994

DRAWN BY: *CAO* CHECKED BY: *MA*
APPROVED: *[Signature]*

CITY OF CAMPBELL

DETAIL 11



FERTILIZER

1 GAL.	2 TABLETS
2 OR 5 GAL.	3 TABLETS
15 GAL.	6 TABLETS
24" BOX	10 TABLETS

OBSOLETE - SEE UPDATED DETAIL ON WEBSITE

REVISED
DATE: JULY 1994
DRAWN BY *CPD* CHECKED BY *MD*
APPROVED *MD*

STREET TREE PLANTING & STAKING DETAIL

CITY OF CAMPBELL

DETAIL 12

NOTES; (unless otherwise specified in the plans or special provisions)

1. All trees shall be 15-gallon size and of the variety indicated on the plans or specified by the City Engineer.
2. Each tree shall be approved by the Engineer prior to planting. Contractor may request Engineer to pre-approve tree at local nursery.
3. The exact location of each tree shall be approved by the Engineer prior to planting.
4. Vertically cut the root ball at three or four places to loosen roots and discourage circling. Vertically scarify sides and bottom of planting hole.
5. When planting, hold tree so that previous planting level is even with sidewalk level and gradually place top soil about the root ball.
6. When hole is three-quarters full, fill with water to compact the soil and eliminate air pockets.
7. Fill planting hole with loose soil to ground level.
8. Construct a watering basin around each tree as shown.
9. Planting operations must be followed by a deep, thorough watering of each tree.
10. Substitutions in tree varieties are permitted only upon writer authorization from the City Engineer.
11. All street trees installed in commercial and industrial shall be installed with an irrigation system (fed from on-site).
12. Deep root barriers (Deep Root Partners Deep Root RB 24-2) or approved equal shall be installed at all tree planting locations adjacent to sidewalk.

OBSOLETE - SEE UPDATED DETAIL ON WEBSITE

REVISED
DATE: JULY 1994

STREET TREE PLANTING NOTES

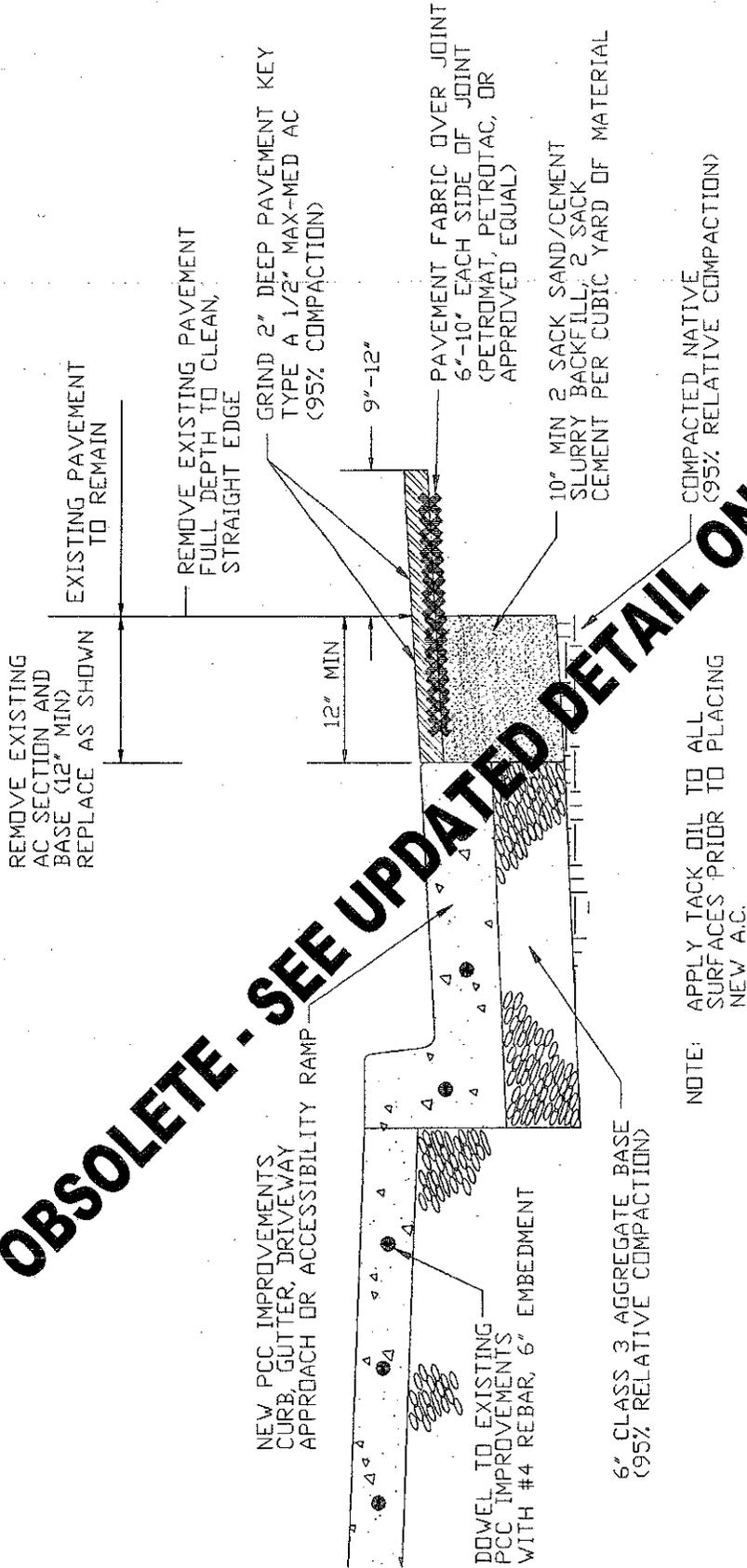
DRAWN BY CAO CHECKED BY MA
APPROVED SJA

CITY OF CAMPBELL

DETAIL 13

APPENDIX

OBSOLETE - SEE UPDATED DETAIL ON WEBSITE

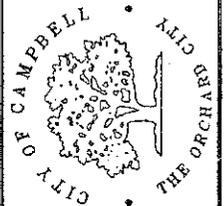


NOTE: APPLY TACK OIL TO ALL SURFACES PRIOR TO PLACING NEW A.C.
 COMPACTED NATIVE (95% RELATIVE COMPACTION)

DETAIL
 A-3

A.C. PAVEMENT REMOVAL & RESTORATION AT
 NEW PCC IMPROVEMENTS

DRAWN BY: *[Signature]*
 CHECKED BY: *[Signature]*
 APPROVED BY: *[Signature]*
 REVISED: _____
 DATE: MARCH 1996



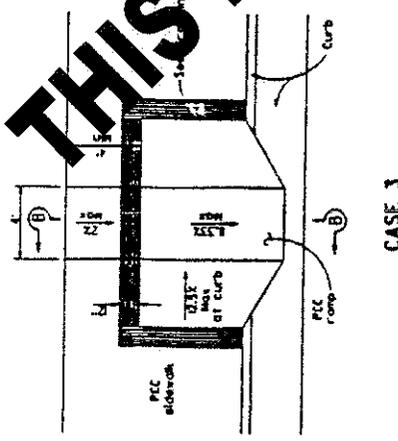
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 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 APPROVED BY: [Signature]
 DIVISION: [Signature]
 PROJECT: [Signature]

NOTES

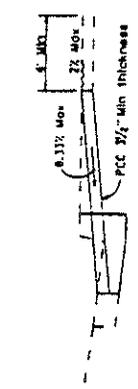
1. AC ramp slope shall be a maximum of 3/4."
2. 4" drain shall be 0.312" minimum thickness steel slope. This shall conform to radius of curb and be beveled to conform to side slope.
3. Concrete finish for Case 3 shall have a transverse broomed surface texture rougher than the surrounding sidewalk.
4. UTILITY poles, manholes, vaults, and all other utility facilities within the boundaries of the curb ramp shall be recessed by at least 1/4" to 1/2" in conjunction with curb ramp construction.

To accompany plan sheet

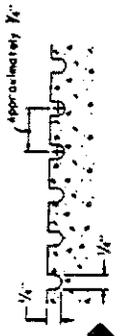
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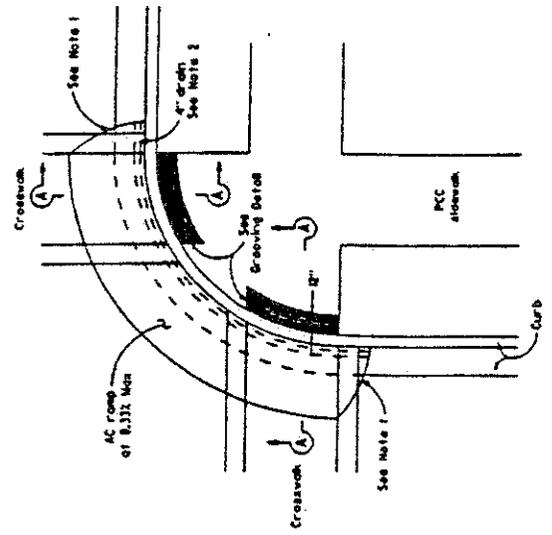
CASE 1



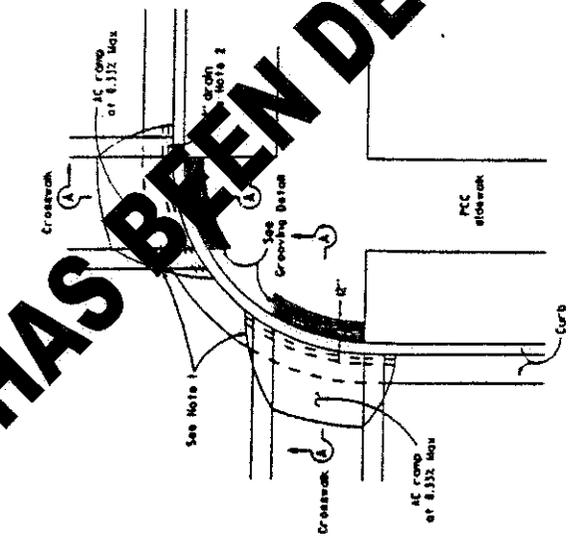
SECTION B-B



GROOVING DETAIL



CASE 1



CASE 2



SECTION A-A

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
CURB RAMP DETAILS NO. 2

NO. SCALE

NEW STANDARD PLAN NSP A89