# **CITY OF SAN FERNANDO CALIFORNIA**

**CONTRACT DOCUMENTS, SPECIFICATIONS, AND STANDARD DRAWINGS FOR 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION JOB NO. 7594, PLAN NO. P-721** 



Prepared by:



extending your reach

374 POLI STREET, SUITE 101 VENTURA, CALIFORNIA 93001 825-653-6597



Prepared Under the Supervision of:

Date: June 23, 2016

Mike Bustos, P.E., Willdan Engineering



Approved by:

Date: \_\_\_June 23, 2016

Ying Kwan, P.E., City Engineer

# **TABLE OF CONTENTS**

SECTION Page No.	D.
Information	
Table of Contents(i)	
Notice Inviting Bids1	
Instructions to Bidders3	
Proposal	
Contractor's ProposalP-1	
Bidder's BondP-3	
Contractor InformationP-4	
List of ReferencesP-5	
List of SubcontractorsP-6	
Certificate of Secretary of Adoption of ResolutionP-7	
List of Subcontractors, Suppliers, & Vendors Contacted	
Non Collusion AffidavitP-9	
Contract/Agreement	
Construction Contract	
Performance Bond Form	
Payment (Labor and Material) Bond Form	
Warranty Performance and Payment Bond Form	
Walturity Ferromance and Fayment Bond Form Imminimum.	
General Provisions	
Section 1 – Terms, Definitions, Abbreviations, and Symbols	
Section 2 – Scope and Control of the Work	
Section 3 – Changes in Work	
Section 4 – Control of Materials	
Section 5 – Utilities	
Section 6 – Prosecution, Progress, and Acceptance of the Work	
Section 7 – Responsibilities of the Contractor	
Section 8 – Facilities for Agency PersonnelGP-12	
Section 9 – Measurement and PaymentGP-12	
Special Provisions	
General Requirements	
Scope of WorkSP-1	
Specifications and AppendedSP-1	
Coordination	
Construction ForceSP-2	
Project Phasing and SchedulingSP-2	
Public Convenience and NoticesSP-2	
Emergency ResponseSP-3	
Storage YardSP-3	
Traffic Control	
Bid Item No. 1 –Catch Basin CleaningSP-5	
Bid Item No. 2 – LA County Permit ComplianceSP-7	
Bid Item No. 3 – Connector Pipe Screen InstallationSP-7	
Appendix A – Project Location Maps	
Appendix B – Catch Basin Table	
Appendix C – LA County Permit Requirements	

#### **NOTICE INVITING BIDS**

SEALED PROPOSALS will be received at the Office of the City Clerk, City Hall, 117 Macneil Street, San Fernando, California until **11:00 AM on Thursday, July 7, 2016**, and said bids will be publicly opened and declared for performing work on the following project:

# 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION JOB NO. 7594, PLAN NO. P-721

The general scope of work consists of furnishing and installation of Connector Pipe Screens for the pipe outlet, as described herein, into existing storm drain catch basins throughout the City. These devices are intended to reduce the amount of trash entering the storm drain system through curb opening catch basins or a curb opening catch basin with gratings. The bid items, corresponding estimated quantities, and time allowed to complete the work are listed in the Contractor's Proposal. The definitions of bid items are described in the Technical Provisions.

There is no pre-bid meeting for the project.

The contract time for the project is twenty-five (25) working days.

It is the policy of the City, as directed by City Council, to encourage the use of local area businesses in construction contracts including vendors, suppliers, labor, etc.

The City reserves the right to reject any and all bids and to waive any minor irregularities in the bid documents. Bidders may not withdraw their bid for a period of sixty (60) days after date set for opening thereof.

The Contractor must follow the procedures as set forth in the Instructions to Bidders for acceptance of bids. Bids will be accepted only if submitted on a proposal form furnished by the City. Each bid must be accompanied by cash, certified check, cashier's check, or bidder's bond made payable to the City of San Fernando or issued by a surety admitted to do business in California, for an amount equal to at least ten percent (10%) of the amount bid. Such guaranty to be forfeited to the City should the bidder to whom the contract is awarded fail to enter into the contract.

Bids will be accepted only from contractors licensed in accordance with the provisions of the Business and Professional Code of the State of California. Prior to contract execution, the contractor and his/her subcontractors shall obtain a City business license. Prior to beginning work, the contractor must possess a valid California **Class A** Contractor's License.

AB44 EFFECTIVE JULY 1, 2014. If a bidder submits a bid that includes a subcontractor who would be performing work in amount in excess of  $\frac{1}{2}$  of  $\frac{1}{6}$  of the bidder's total bid or in the case of bids for the construction of streets or highways, including bridges, in excess of  $\frac{1}{2}$  of  $\frac{1}{6}$  of the bidder's total bid or \$10,000, whichever is greater, then in addition to the subcontractor's name and business address, the subcontractor's State contractor's license number must be included as part of the information submitted for that proposed subcontractor. Failure to provide the subcontractor's license number shall render the bid non-responsive.

SB854 EFFECTIVE MARCH 1, 2015. Contractors and Subcontractors wishing to work on a public works project must be registered with the State of California, Department of Industrial Relations. All public works projects with bids submitted after March 1, 2015, or awarded on or after April 1, 2015, shall use only registered contractors and subcontractors. No bid will be accepted nor any contract entered into without proof of the Bidder's and its subcontractors' current registration with the Department of Industrial Relations. If awarded a contract, the Bidder and its subcontractors of every tier shall maintain active registration with the Department of Industrial Relations for the duration of the Project.

The State General Prevailing Wage Rate Determination as established by the California Department of Industrial Relations is available at <a href="http://www.dir.ca.gov/DLSR/PWD/index.htm">http://www.dir.ca.gov/DLSR/PWD/index.htm</a> and in the Public Works Department at City Hall.

At the request and expense of the Contractor, securities equivalent to the five percent (5%) to be withheld from progress payments pursuant to the City's Standard General Conditions shall be deposited with the City Clerk or a state or federally charted bank as the escrow agent, who shall pay such monies to the contractor upon satisfactory completion of the contract. Securities eligible for investment shall include those listed in Section 16430 of the Government Code or bank or savings and loan certificates of deposit. The contractor shall be the beneficial owner of any securities substituted for monies withheld and shall receive any interest thereof.

Copies of the plans and specifications, including the approved proposal form, are available on the City website, <a href="www.sfcity.org">www.sfcity.org</a>, for downloading at no charge. In order to be eligible to submit a bid for the project, you MUST contact Manuel Fabian, Civil Engineering Assistant II, via e-mail at <a href="mailto:mfabian@sfcity.org">mfabian@sfcity.org</a> to be placed on the plan holders list. Compact disk (CD) of the plans and specifications may be obtained for a non-refundable fee of \$5.00 each at the Public Works Department, City Hall, 117 Macneil Street, San Fernando, California, 91340. If mailing is requested, an additional fee of \$5.00 is required to cover postage and handling.

Addenda, if any, will NOT be distributed to the planholders, and will ONLY be posted on the City website. It shall be the Bidder's responsibility to check the City website for any addenda.

		City of San Fernando	
Date:	June 23, 2016	By: Ying Kwan, P.E. City Engineer	
		06/2	ly News 23/2016 30/2016
		06/3	Sun 30/2016

#### **INSTRUCTIONS TO BIDDERS**

1. <u>GENERAL</u> Proposals under these Contract Documents shall be submitted on the blank forms furnished herewith. When presented, the proposal forms must be completely made out in the manner and form indicated therein, and must be properly signed by the bidder. The bidder's address, telephone number, and California State Contractor's License number must be included. To be eligible to perform work, the bidder must be a state licensed contractor in good standing prior to beginning work. The City Council reserves the right to reject any bid if all the above information is not furnished.

Each proposal submitted must be presented in a sealed cover, and must be filed prior to the time and at the place designated in the Notice Inviting Bids. All proposals submitted as prescribed will be publicly opened and read at the time and place designated in the Notice Inviting Bids.

<u>Bid Quotes and Unit Price Extensions</u> – The unit prices and the lump sum prices quoted by the bidder must be entered in the spaces provided on the Contractor's Proposal form. In case there is a discrepancy between the unit price and the item total, the unit price shall govern and will be considered as representing the Bidder's intention. The bid total will be corrected to conform to the specified unit price.

Bid Retention and Award – The City reserves the right to retain all bids for a period of sixty (60) days for examination and comparison. The City also reserves the right to waive non-substantial irregularities in any bid, to reject any and all proposals, to reject or delete one part of a proposal and accept the other, except to the extent that the bids are qualified by specific limitations, and to make award to the lowest responsible bidder as the interest of the City may require.

<u>Communications Regarding Bid</u> – All timely requests for information submitted in writing will receive a written response from the City. Telephone communications with City staff are not encouraged, but will be permitted. However, any such oral communication shall not be binding on the City.

2. <u>EXAMINATION OF PLANS, CONTRACT DOCUMENTS, AND WORK SITE</u> The Contract Documents and plans, if any, are on file and available for inspection in City Hall.

The Bidders are required to carefully examine the site and the proposal, plans, Contract Documents, and contract forms. The Bidders must satisfy themselves as to the requirements of the Contract Documents and the contract; as to the location of the proposed work and by such other means as they may prefer; and as to the actual conditions and requirements of the work, and shall not, at any time after submission of the bid, dispute, complain, or assert that there was any misunderstanding in regard to the nature or amount of work to be done. It is mutually agreed that submission of a proposal shall be considered prima facie evidence that the bidder has made such examinations.

3. <u>DISQUALIFICATION OF BIDDERS AND PROPOSALS</u> More than one proposal for the same work from any individual, firm, partnership, corporation or association under the same or different names will not be accepted and reasonable grounds for believing that any bidder is interested in more than one proposal for the work will be cause for rejecting all proposals in which such bidders are interested.

Proposals which show obviously unbalanced prices, and those which are incomplete or show any alteration of form, or contain any additions or conditional or alternate bids that are not called for or otherwise permitted, may be rejected. Proposals that do not bear the Bidder's signature will be rejected.

4. <u>AWARD AND EXECUTION OF CONTRACT</u> The award of the contract, if awarded, will be made to the lowest responsive bidder whose proposal complies with all the prescribed requirements. The right is reserved, however, to reject any or all bids and to waive technical errors or discrepancies if it is deemed to best serve the interests of the City. An award will be made only until all necessary investigations are made as to the responsiveness of the low bidder.

Failure to execute a contract and file acceptable bonds as provided herein within the above timeline, not including Sundays, shall be just cause for the annulment of the award and the forfeiture of the proposal guaranty.

The Contractor will be required to obtain a City Business License prior to award of the contract.

# 5. <u>SIGNATURE OF CONTRACTOR</u>

- a. <u>Corporation</u> Any bids submitted by a corporation must include the name of the corporation, and must be signed by the President and Secretary or Assistant Secretary, and the corporate seal must be affixed. Other persons may sign for the corporation in lieu of the above if a certified copy of a resolution of the corporate board of directors so authorizing them to do so is on file in the City Clerk's Office.
- b. <u>Partnerships</u> Any bids submitted by a partnership must contain the names of all persons comprising the partnership or co-partnership. The bid must be signed by all partners comprising the partnership unless proof in the form of a certified copy of a certificate of partnership acknowledging the signer to be a general partner is presented to the City Clerk.
- c. <u>Joint Ventures</u> Any bids submitted by a joint venture must so state that and must be signed by each joint venturer.
- d. <u>Individuals</u> Any bids submitted by an individual must be signed by that individual unless an up-to-date power of attorney is on file in the City Clerk's Office, in which case the person indicated in the power of attorney may sign for the individual.

The above rules also apply in the case of a fictitious firm name. In addition, however, where the fictitious name is used, it must be so indicated where the signature appears.

# 6. BONDS

- a. <u>Bid Bonds</u> Bid must be accompanied by cash, cashier's check, certified check, or surety bond in an amount equal to ten percent (10%) of the total amount in the Contractor's Proposal. Checks and bonds shall be made payable to the City of San Fernando.
- b. <u>Contract Bonds</u> The Contractor simultaneously with execution of the Agreement shall furnish a surety bond in an amount equal to one hundred percent (100%) of the contract price as security for the faithful performance of this contract and a separate surety bond in an equal to one hundred percent (100%) of the contract

price as security for the payment of all persons performing labor and furnishing materials in connection with this contract, as required by the terms of an Act entitled:

"An Act to secure the payment of the claim of persons employed by Contractors upon Public Works, and the claims of persons who furnish materials, supplies, teams, implements; or machinery used or consumed by such Contractors in the performance of such works, and prescribing the duties of certain public officers with respect thereto," approved May 10, 1919, as amended.

Bond Forms required are included in these specifications. Copies will be furnished to prospective bidders upon request.

Whenever any Surety or Sureties on any such bonds, or any bonds required by Law for the protection of the claims of laborers and material men become insufficient or the City Engineer has cause to believe that such Surety or Sureties have become insufficient, a demand in writing may be made of the Contractor for each further bond or bonds or additional surety, not exceeding that originally required, as is considered necessary, considering the extent of the work remaining to be done. Thereafter, no payment shall be made upon such contract to the Contractor or any assignee of the Contractor until such further bond or bonds or additional surety has been furnished.

- 7. <u>RETURN OF BIDDER'S GUARANTIES</u> Within ten (10) days after the award of the contract, the City will return the proposal guaranties accompanying those proposals which are not to be considered in making award. All other proposals which are to be held until the contract has been finally executed, will be returned to the respective bidders after award of contract.
- 8. <u>CONFLICT OF INTEREST</u> In the procurement of supplies, equipment, construction, and services by sub-recipients, the conflict of interest provisions in 24 CFR 85.36, OMB Circular A-110, and 24 CFR 570.611, respectively, shall apply. No employee, officer or agent of the sub-recipient shall participate in selection, or award or administration of a contract supported by Federal funds if a conflict of interest, real or apparent, would be involved.

The following documents in the PROPOSAL section of these Contract Documents must be completed and submitted with the bid package:

Contractor's Proposal
Bidder's Bond
Contractor Information
List of References
List of Subcontractors
Certificate of Secretary of Adoption of Resolution
List of Subcontractors, Suppliers, & Vendors Contacted to Receive Prices in Preparation of Bid Proposal
Non-Collusion Affidavit

# CONTRACTOR'S PROPOSAL

CITY OF SAN FERNANDO 117 MACNEIL STREET SAN FERNANDO, CALIFORNIA 91340

HONORABLE MAYOR AND MEMBERS OF THE CITY COUNCIL:

The undersigned declares that this proposal was prepared by carefully examining the location of the proposed work, the Plans, the Specifications, and the Contract Documents entitled:

# 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION JOB NO. 7594, PLAN NO. P-721

The undersigned hereby shall commit to beginning contract work within 10 days of receiving Notice to Proceed. Contractor shall complete the catch basin field inventory, and submit field measurements, shop drawings, and technical manual within fifteen (15) working days of Notice to Proceed. A separate Notice to Proceed will be issued for installation of the CPS units, after a permit is issued by the County. CPS installations shall not commence until the Contractor's field measurements and shop drawings have been submitted to the County for approval, a final permit has been issued, and the required preconstruction meeting is held with the County's representative. The contractor shall complete all contacted installation work within twenty-five (25) working days of Notice to Proceed for said activities. All work shall be performed in accordance with the Plans, Specifications, and Contract Documents, including the Special Provisions and Technical Provisions, for the prices set forth in the bid schedule.

Dated	Bidder	
	Signature	
	Name (Print/Type)	

# **BID SCHEDULE**

# 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION JOB NO. 7594, PLAN NO. P-721

ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	UNIT PRICE	ITEM TOTAL
1.	Catch Basin Cleaning (67 County Owned Catch Basins) (35 City Owned Catch Basins)	EA	102	\$	\$
2.	LA County Permit Compliance and Coordination for CPS Installation (67 County Owned Catch Basins)	EA	67	\$	\$
3.	Connector Pipe Screen Installations (67 County Owned Catch Basins) (35 City Owned Catch Basins)	EA	102	\$	\$
				TOTAL BID	\$

The bidder acknowledges receipt of the following addendum issued for the above project. If no addendum has been received, write "None".

List of Addendum Received:	

The City does not expressly or by implication agree that the actual amount of work will correspond with the foregoing quantities, but reserves the right to increase or decrease the amount of any class or portion of the work or to omit portions of the work as may be deemed necessary or advisable by the Engineer

The bidder further agrees that in case of not executing the required contract with necessary bonds within ten (10) days, not including Sundays, after having received notice that the contract is ready for signature, the proceeds of the check or bond accompanying his bid shall become the property of the City of San Fernando.

By submission of the Contractor's Proposal, the bidder also certifies that the bid is a balanced bid.

# **BIDDER'S BOND**

KNOW ALL MEN BY THESE PRESENTS	
	as Principal,
and	as Surety,
are held and firmly bound unto the City of Sar	n Fernando in the sum of
to be paid to the said City of its southin Attorn	(\$)
	ney, its successors and assigns; for the payment of burselves, our heirs, executors and administrators, rmly by these presents.
	N IS SUCH, that if the certain proposal of the above
bounden	
to construct	oved) datedis accepted by
the City of San Fernando, and if the above bour and assigns, shall duly enter into and execute and deliver the two bonds described within te the mailing of a notice to the above bounden by and from the said City of San Fernando to	nden his heirs, executors, administrators, successors a contract for such construction, and shall execute in (10) days (not including Sunday) from the date of that said contract is ready for execution, then this ise it shall be and remain in full force and virtue.
<b>3</b> ,,	
IN WITNESS WHEREOF, we hereunto, 2016.	set our hands and seals thisday of
Principal	Surety
Ву	Ву
Its	Its
Ву	Ву
Its	Its
	nowledged before Notary Publics, and a sufficiently bond to verify the authority of any party signing on
All notices and demands to the surety shall be	e delivered via first class mail to the following:

# **CONTRACTOR INFORMATION**

Company Name			
Address			
Telephone			
Type of Firm: Individual ( )	Partnership ( ) Co	orporation ( )	
Corporation organized under t	he laws of the State of	f	
Contractor's License Number _	State _	Classification	Expiration Date
DIR Registration Number		Expiration Date	
Names and titles of all officers	of the firm		

# **LIST OF REFERENCES**

(To be submitted by contractors who have not worked with the City of San Fernando.)

1.	NAME OF CITY OR BUSINESS
	CONTACT PERSON AND PHONE NO
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$
2.	NAME OF CITY OF BUSINESS
۷.	NAME OF CITY OR BUSINESS
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$
3.	NAME OF CITY OR BUSINESS
	CONTACT PERSON AND PHONE NO.
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$
4.	NAME OF CITY OR BUSINESS
١.	CONTACT PERSON AND PHONE NO
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$
5.	NAME OF CITY OR BUSINESS
	CONTACT PERSON AND PHONE NO
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$
6.	NAME OF CITY OR BUSINESS
-	CONTACT PERSON AND PHONE NO.
	TYPE/DATE OF WORK PERFORMED
	TOTAL CONTRACT AMOUNT \$

# LIST OF SUBCONTRACTORS

The bidder is required to fill in the following blanks in accordance with the provisions of Section 4100 to 4l08, inclusive, of the Government Code of the State of California.

Name under which subcontractor is licensed:				
Address of office, mill or shop:				
Specific description of subcontract:				
License No.:	_Amount of Subcontract:			
DIR Registration Number:	_Expiration Date:			
	d:			
Address of office, mill or shop:				
Specific description of subcontract:				
License No.:	_Amount of Subcontract:			
DIR Registration Number:	_Expiration Date:			
Name under which subcontractor is licensed	<b>!:</b>			
	_Amount of Subcontract:			
DIR Registration Number:	_Expiration Date:			
Name under which subcontractor is licensed	i:			
Address of office, mill or shop:				
	_Amount of Subcontract:			
DIR Registration Number:	_Expiration Date:			

# CERTIFICATE OF SECRETARY OF ADOPTION OF RESOLUTION

I,	_(insert name of Secretary), do hereby certify that I am
the Secretary of	(insert name of corporation) a
, , ,	that the following resolution is a full, true and correct Directors of said corporation at a meeting thereof held
• • • • • • • • • • • • • • • • • • • •	_ , 2016 (insert proper date), in accordance with the
bylaws of said corporation, and that said reso	olution has not to the date of this certificate been in any
manner amended, modified, revoked, rescin effect.	ded or annulled, and the same is now in full force and
"RESOLVED, that any of the following office	
	President
	, Vice President and , secretary
alone) (strike out inapplicable portion), be ar	not shown), (any two acting together) (any one acting and they are hereby authorized to execute and deliver in proporation, any and all bids, authorizations, contracts,
including public entities, shall be entitled to two of such officers acting together) (strike	all persons, firms, corporations and other entities, rely on the authority of (any one of such officers) (any out inapplicable portion), above named, to bind this of any such bids, authorizations, contracts, bonds and
person, corporation, or public entity relying notice to the contrary signed by duly auth authorizations theretofore given with respect	ority herein contained shall remain effective until the upon the authority herein contained, receives written norized officers of this corporation, that all previous to the matters herein contained are revoked. That the d shall not affect the validity of any instrument herein at the time authorized to act."
IN WITNESS WHEREOF, the undersigned ha the seal of this corporation thisday of	s hereunto set (his/her) hand as Secretary and affixed, 2016.
	Secretary

**Affix Seal** 

# LIST OF SUBCONTRACTORS, SUPPLIERS, & VENDORS CONTACTED TO RECEIVE PRICES IN PREPARATION OF BID PROPOSAL

NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO.
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$
NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO.
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$
NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$
NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO.
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$
- 1 120L OK/11 100H
NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$
NAME & LOCATION OF BUSINESS
CONTACT PERSON AND PHONE NO.
ITEM OR TYPE OF WORK PROPOSED
PRICE OR AMOUNT \$

# **NON-COLLUSION AFFIDAVIT**

# 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION JOB NO. 7594, PLAN NO. P-721

STATE OF CALIFORNIA	)	
COUNTY OF	) SS )	
		,being first duly sworn, deposes and
says that he is		
says triat he is	(Sole owner,	partner, president, secretary, etc.)
of		
person, partnership, company, assor or sham; that such bidder has not anyone else to put in a sham bid, or manner, directly or indirectly, sou of said bidder or of any other bidder, other bidder, or to secure an advant proposed contract; that all statement advantage against the public body a statements contained in such bid are bid price or any breakdown thereo paid and will not pay any fee in organization, bid depository, or to any	ciation, organization directly or indirectly or indirectly that anyone shall up that anyone shall up the property or to fix any overholds against the puts contained in substantial that contrained in substantial that contents are true; and, further of, or the contents connection thereby member or agent	not made in the interest of or on behalf of any undisclosed n or corporation; that such bid is genuine and not collusive tly colluded, conspired, connived or agreed with any bidder or refrain from bidding; that said bidder has not in any t, communication or conference with anyone to fix the bid price ead, profit or cost element of such bid price, or of that of any iblic body awarding the contract or anyone interested in the uch bid price or of that of any other bidder, or to secure an act or anyone interested in the proposed contract; that all r, that said bidder has not, directly or indirectly, submitted his thereof, or divulged information or data relative thereto, or with to any corporation, partnership, company, association, thereof, or to any other individual except to such person or est with said bidder in his general business.
Date		Bidder
		Authorized Signature
STATE OF CALIFORNIA  COUNTY OF	) ) SS	Name (Print/Type)
COUNTY OF	)	Title
On	, 2016 befo	ore me,
Personally appearedevidence to be the person(s) whose he/she/they executed the same in his instrument, the person(s) or the entit	name(s) is/are subs s/her/their authoriz y upon behalf of wl	who proved to me on the basis of satisfactory scribed to the within instrument and acknowledge to me that ed capacity(ies), and that by his/her/their signature(s) on the hich the person(s) acted, executed the instrument.
correct.	under the IdWS OF t	he State of California that the foregoing paragraph is true and
(Notary Seal)		
		Signature of Notary Public



# **CONSTRUCTION CONTRACT/AGREEMENT**

"Contractor"
2016 CITYWIDE CATCH BASIN CONNECTOR
PIPE SCREEN INSTALLATION
JOB NO. 7594, PLAN NO. P-721

THIS AGREEMENT, made and entered into thisth day of 2016, by and between CITY OF SAN FERNANDO, a municipal corporation of the State of California, hereinafter referred to as "CITY" and "CONTRACTOR."
WITNESSETH:
That the CITY and the CONTRACTOR, for the consideration hereinafter named, mutually agree as follows:
1. The complete contract consists of the Contract Documents which includes all of the following documents incorporated herein by this reference: Approved <b>2016 Citywide Catch Basin Connector Pipe Screen Installation (Job No. 7594), (Plan No. P-721)</b> , Notice Inviting Bids, Instructions to Bidders, Contractor's Proposal, Contract/Agreement, Special Provisions, Technical Provisions, and all modifications and amendments thereto.
2. CONTRACTOR shall perform everything required to be performed, shall provide and furnish all the labor, materials, necessary tools, expendable equipment, and all utility and transportation services required for the following work of improvement: 2016 Citywide Catch Basin Connector Pipe Screen Installation (Job No. 7594), (Plan No. P-721), (the "Work of Improvement") all in accordance with the Contract Documents and Contractor's Proposal dated, 2016.
CONTRACTOR agrees to perform all the work and furnish all the materials at his own cost and expense necessary to construct and complete in a good and workman-like manner and to the satisfaction of the City Engineer of the CITY, the Work of Improvement in accordance with the plans, specifications, and Contract Documents (the "Specifications") therefore prepared by City's Engineering Department and adopted by the City Council.
3. CITY agrees to pay and CONTRACTOR agrees to accept in full payment for this Work of Improvement the stipulated sum of(\$).
CITY agrees to make monthly payments and final payment in accordance with the method set forth in the Specifications.
4. CONTRACTOR agrees to commence construction of the Work of Improvement within ten (10) days after issuance of a Notice To Proceed, and to continue in a diligent and workman-like

manner without interruption, and to complete the construction thereof within twenty-five (25)

working

days.

- 5. Time is of essence of this Contract, and it is agreed that it would be impracticable or extremely difficult to ascertain the extent of actual loss or damage which the CITY will sustain by reason of any delay in the performance of this Agreement. It is, therefore, agreed that CONTRACTOR will pay as liquidated damages to the CITY the following sum: One Thousand Dollars (\$1000.00) for each day's delay beyond the time herein prescribed for finishing work. If liquidated damages are not paid, as designated by the CITY, the CITY may deduct the amount thereof from any money due or that may become due the CONTRACTOR under this Agreement in addition to any other remedy available to CITY. The CONTRACTOR shall not be assessed liquidated damages for any delay caused by the failure of a public utility to relocate or remove an existing utility required for the performance of this Contract.
- 6. The CONTRACTOR will pay, and will require all subcontractors to pay, all employees on the work of improvement a salary or wage at least equal to the prevailing salary or wage established for such work as set forth in the wage determinations for this work. Travel and subsistence pay shall be paid in accordance with Labor Code Section 1773.8. The CONTRACTOR shall forfeit to the CITY, as penalty, Fifty Dollars (\$50.00) for each calendar day or portion thereof for each worker paid (either by him or any subcontractors under him) less than the prevailing rate described above on the work provided for in this Agreement, all in accordance with Section 1775 of the Labor Code of the State of California.
- 7. In the performance of this Contract, not more than eight (8) hours shall constitute a day's work, and the CONTRACTOR shall not require more than eight (8) hours in a day from any person employed by him hereunder, except as provided in the Labor Code of the State of California. The CONTRACTOR shall adhere to Article 3, Chapter 1, Part 7 (Sections 1810, et seq.) of the Labor Code of the State of California, and it is agreed that the CONTRACTOR shall forfeit to the CITY as a penalty the sum of Twenty-five Dollars (\$25.00) for each worker employed in the execution of this Contract by the CONTRACTOR or any subcontractor for each calendar day during which any worker is required or permitted to labor more than eight (8) hours in violation of that article.
  - 8. CONTRACTOR, by executing this Agreement hereby certifies:

"I am aware of the provisions of Section 3700 of the Labor Code which requires every employer to be insured against liability for Worker's Compensation or to undertake self-insurance in accordance with the provisions of that Code, and I will comply with such provisions before commencing the performance of the work of this Contract."

CONTRACTOR shall, prior to the execution of this Contract, furnish two bonds approved by the CITY, one in the amount of One Hundred Percent (100%) of the Contract price, to guarantee the faithful performance of the work, and one in the amount of One Hundred Percent (100%) of the Contract price to guarantee payment of all claims for labor and materials furnished. This Contract shall not become effective until such bonds are supplied to and approved by the CITY. CONTRACTOR shall, prior to the release of the performance and payment bonds or the retention payment, furnish a warranty performance and payment bond equal to at least ten percent of the final contract \$1,000, whichever price or is greater.

# CONSTRUCTION CONTRACT/AGREEMENT **2016 Citywide Catch Basin Connector Pipe Screen Installation, Job No. 7594, Plan No. P-721** Page 3 of 3

IN WITNESS WHEREOF, the said CONTRACTOR and the CITY ADMINISTRATOR and CITY CLERK of the CITY have caused the names of said parties to be affixed hereto, each in triplicate, the day and year first above written.

	CONTRACTOR
	CONTRACTOR
	BY
	Title
	DV
	BY
	<u></u>
	Title
	CITY OF SAN FERNANDO
	A Municipal Corporation
	BRIAN SAEKI
	CITY MANAGER
ATTEST:	
ELENA G. CHAVEZ	
CITY CLERK	
APPROVED AS TO FORM:	
DICK D. OLIVADEZ	
RICK R. OLIVAREZ CITY ATTORNEY	
OLIVAREZ MADRUGA, P.C.	
,	

# **PERFORMANCE BOND**

KNOW ALL MEN BY THESE PRESENTS: that w	/e,	
KNOW ALL MEN BY THESE PRESENTS: that was Principal, and are held and firmly bound unto the CITY OF SAI	as Surety,	
are held and firmly bound unto the CITY OF SAI in the sum of	N FERNANDO, hereinafter called the Owner,  (\$ \	
in the sum of(\$		
The conditions of this obligation are such the contract, attached hereto, with the Owner date		
NOW, THEREFORE, if the principal shall w undertakings, covenants, terms, conditions ar original term thereof, and any extensions there or without notice of the Surety, and during the contract, and shall also well and truly perform terms, conditions and agreements of any and contract that may hereafter be made, then the obligation shall remain in full force and virtue.	nd agreements of said contract during the eof that may be granted by the Owner with he life of any guaranty required under the and fulfill all the undertakings, covenants, d all duly authorized modifications of said	
Further, the said Surety, for value received, he extension of time, alteration or modification of to performed thereunder shall in any way affect waives notice of any and all such changes, modifications of the contract documents and/o IN WITNESS WHEREOF, the above bounden patheir several seals theday ofcorporate seal of each corporate party being he by each party's undersigned representative, put	the contract documents or of the work to be its obligations on this bond; and it hereby, extensions of time; and alterations or of the work to be performed thereunder. arties have executed this instrument under	
	(Principal)	
ATTEST:	(Address)	
	(Ву)	

	(Title)	
	(Surety)	
ATTEST:	(Address)	)
	(Ву)	
	(Title)	
(To be filled in by Surety)		
Rate of premium on this bond is \$		per thousand.
Total amount of premium charge is \$		
Surety signatures on this bond must be acknowl attorney must be attached to the bond to verify t		
All notices and demands to the surety shall be de	livered via first clas	ss mail to the following:

# **PAYMENT (LABOR AND MATERIAL) BOND**

KNOW ALL MEN BY THESE PRESENTS: that we,	
as Principal, and	as Surety
are held and firmly bound unto the CITY OF SAN FERNAN	DO, hereinafter called the Owner
in the sum of	(\$
for the payment of which sum well and truly to be made executors, administrators and successors, jointly and seconds.	•
The conditions of this obligation are such that where contract, attached hereto, with the Owner dated	•

NOW, THEREFORE, if the Principal shall promptly make payment to all persons supplying labor and material in the prosecution of the work provided for in said contract, and any and all duly authorized modifications of each contract that may hereafter be made, then this obligation shall be void, otherwise this obligation shall remain in full force and virtue.

The condition of this obligation is such that, if said Principal or his or its subcontractors, or the heirs, executors, administrators, successors or assigns thereof, shall fail to pay any of the persons named in Section 3181 of the Civil Code of the State of California for any materials, provisions, provender or other supplies used in, upon, for or about the performance of the work or labor performed by any such claimant or any amounts required to be deducted, withheld, and paid over to the Franchise Tax Board from the wages of employees of the contractor and his subcontractors pursuant to Section 18806 of the Revenue and Taxation Code, with respect to such work and labor, then said Surety will pay for the same, in the amount not exceeding the sum set forth hereinabove and also, in case suit is brought upon the bond, will pay a reasonable attorney's fee to be fixed by the court. This bond shall insure to the benefit of any and all persons named in the aforesaid Civil Code Section 3131 so as to give a right of action to them or their assigns in any suit brought upon the bond.

Further, the said Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration or modification of the contract documents or of the work to be performed thereunder shall in any way affect its obligations on this bond; and it hereby waives notice of any and all such changes, extensions of time; and alterations or modifications of the contract documents and/or of the work to be performed thereunder.

their several seals theday of _	en parties have executed this instrument under 
• • • • • • • • • • • • • • • • • • • •	re, pursuant to authority of its governing body.
	(D )
	(Principal)
ATTEST:	(Address)
	(Ву)
	(Title)
	(Surety)
ATTEST:	(Address)
	(By)
	(Title)
(To be filled in by Surety)	
Rate of premium on this bond is \$	per thousand.
Total amount of premium charge is \$	
	dged before Notary Publics, and a sufficiently power of e authority of any party signing on behalf of a surety.
All notices and demands to the surety shall be deli	vered via first class mail to the following:

#### WARRANTY PERFORMANCE AND PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS: that	as Principal
hereinafter called Contractor, and	·
licensed and domiciled in the state of California as Su CITY OF SAN FERNANDO as Obligee, hereinafter ca	urety, hereinafter called Surety, are held and firmly bound unto alled Owner, in the amount of
<del>-</del> ·	(\$
for the payment whereof Contractor and Surety bind and assigns, jointly and severally, firmly by these p	themselves, their heirs, executors, administrators, successors resents.
WHEREAS,	as Contractor
has by written agreement dated	, 2016, entered into a contract with Owner
for 2016 Citywide Catch Basin Connector Pipe	Screen Installation, Job No. 7594, Plan No. P-721, in
accordance with Drawings and Specifications contains reference made a part hereof, and is hereinafter reference made a part hereof, and is hereinafter reference.	ined in a written and executed contract, which contract is by ferred to as the Contract.

WHEREAS, said contract provides that the Principal shall furnish a bond which shall remain in force for a period of **one** year after the date of the notice of completion and which shall be conditioned to guarantee against all defects in workmanship and materials which shall become apparent during said period.

NOW THEREFORE, the condition of this obligation is such that, if Contractor shall promptly and faithfully perform said Contract, then this obligation shall be null and void; otherwise it shall remain in full force and effect.

The Surety hereby waives notices of any alteration or extension of time made by the Owner.

Whenever Contractor shall be, and declared by Owner to be in default under the Contract, the Owner having performed Owner's obligations thereunder, the Surety may promptly remedy the default, or shall promptly:

- (1) Complete the Contract in accordance with its terms and conditions, or;
- (2) Obtain a bid or bids for completing the Contract in accordance with it terms and conditions, and upon determination by Surety of the lowest responsible bidder, arrange for a contract between such bidder and Owner, and make available as work progresses (even though there should be a default or a succession of defaults under the contract or contracts of completion arranged under this paragraph) sufficient funds to pay the cost of completion less the balance of the contract price, but not exceeding, including other costs and damages for which the Surety may be liable hereunder, the amount set forth in the first paragraph hereof. The term "balance of the contract price," as used in this paragraph, shall mean the total amount payable by Owner to Contractor under the Contract and any amendments thereto, less the amount properly paid by Owner to Contractor.

The transaction of insurance as evidenced by this bond is agreed by all parties to have taken place in the State of California in conformance with the laws therein, the Surety hereby accepts jurisdiction for adjudication of all claims in the state wherein the claims have occurred.

This bond is for the protection of the owner and gives no protection to any claimant other than those provided for by statute in the state wherein the claim occurs. The owner hereby agrees that no payments shall be made in excess or advance of any work specifically performed under the contract without the express written consent of the Surety.

For claims regarding non-payment for services provided or materials supplied under the contract, a claimant is defined herein as one having a direct contract with the Principal and/or subcontractor of the Principal. No suit or action shall be commenced hereunder by any claimant unless claimant shall:

1. Notify the Surety of the direct contract with the Principal or Subcontractor of the Principal within 30 days of entering into such contract and;

- 2. Notify the Surety of any demands for payment under such direct contracts concurrently with the Principal and/or Subcontractor of the Principal and;
- 3. Notify the Surety by certified mail within 15 days of any payment not made when due, or within 30 days of demand.

As the purpose of this bond is to warrant work previously performed by the Principal in the contract specified herein, the Owner shall notify Surety immediately by certified mail upon demand for work to be performed under this bond.

IN WITNESS WHEREOF, the above bounden par day of	ties have executed this instrument under their several seals the , 2016, the name and corporate seal of each corporate
party being hereto affixed and these presents dult authority of its governing body.	, 2016, the name and corporate seal of each corporate y signed by each party's undersigned representative, pursuant to
	(Principal)
ATTEST:	(Address)
	(By)
	(Title)
	(Surety)
ATTEST:	(Address)
	(By)
	(Title)
(To be filled in by Surety)	
Rate of premium on this bond is \$	per thousand.
Total amount of premium charge is \$	·
Surety signatures on this bond must be acknowled must be attached to the bond to verify the authority	edged before Notary Publics, and a sufficiently power of attorney prity of any party signing on behalf of a surety.
All notices and demands to the surety shall be de	elivered via first class mail to the following:
	<del></del>

#### GENERAL PROVISIONS

The documents that control construction, work performed, and materials furnished hereunder are the Contract Documents. The Contract Documents include the Notice Inviting Bids, Contractor's Proposal, Contract/Agreement, Bonds, Specifications, and the documents in the Appendix, if any, all of which are hereby incorporated and made a part of these Contract Documents. The Specifications include the Standard Specifications, these Special Provisions which supplement or modify the Standard Specifications, Plans, Standard Plans, and the Technical Specifications.

The Standard Specifications is the latest edition of the Standard Specifications for Public Works Construction, including supplements, written and promulgated by the Southern California Chapter of the American Public Works Association and the Southern California Districts of the Associated General Contractors of California, and the American Water Works Association (AWWA) Standards.

In case of conflict between documents, the precedence of documents shall follow Subsection 2-5.2 of the Standard Specifications, except that the Technical Provisions precede the Special Provisions. However, for any other precedence of documents, the Technical Provisions shall be considered part of the Special Provisions.

For the convenience of the Contractor, the section and subsection numbering system used in these Special Provisions corresponds to that used in the Standard Specifications.

# SECTION 1 - TERMS, DEFINITIONS, ABBREVIATIONS, AND SYMBOLS

# Subsection 1-2 Definitions

Add the following to the provisions of Subsection 1-2, "Definitions":

The Standard Specifications, Standard Plans, and Manual of Traffic Controls, latest edition of each, of the State of California, Department of Transportation, and the Los Angeles County Department of Public Works Standard Plans, the City of San Fernando Standard Plans, and the American Water Works Association (AWWA) are incorporated herein by reference and are hereby accepted as Reference Specifications. These Reference Specifications are intended to govern certain construction materials, methods, and details except as modified herein or are inconsistent with the provisions herein. In case of conflict between the Reference Specifications and the Technical Provisions, the Technical Provisions shall govern. In case of a conflict between drawings and Technical Provisions, Technical Provisions shall prevail.

# SECTION 2 - SCOPE AND CONTROL OF THE WORK

# Subsection 2-1 Award and Execution of the Contract

Add the following to the provisions of Subsection 2-1, "Award and Execution of the Contract":

By mutual consent in writing of the parties signatory to the contract, alterations or deviations, increase or decreases, additions or omissions, in the plans and specifications may be made and the same shall in no way affect or make void the contract.

#### Subsection 2-4 Contract Bonds

Add the following to the provisions of Subsection 2-4, "Contract Bonds":

The performance bond shall remain in effect at least until the date of substantial completion/notice of completion, except as otherwise provided. The contractor warrants and guarantees to the City that all work will not be defective. The contractor shall furnish a warranty performance and payment bond equal to at least one hundred percent of the final contract price or \$1,000, whichever is greater, before the contract performance and payment bonds can be released or the retention payment paid. The warranty performance and payment bond shall be in effect until at least one year after the date of the notice of completion, except that utility work shall require it to be in effect for three years.

# Subsection 2-5 Plans and Specifications

Add the following to the provisions of Subsection 2-5, "Plans and Specifications":

All authorized alterations affecting the requirements and information given on the approved plans shall be in writing. No changes shall be made of any plan or drawing after the same has been approved by the Engineer, except by written direction of the Engineer. Should it appear that the work to be done, or any matter relative thereto is not sufficiently detailed or explained in these Specifications, Special Provisions, Technical Provisions, or Plans, the contractor shall apply to the Engineer for such further explanations as may be necessary and shall conform to such explanation or interpretation as part of the original specifications. In the event of doubt or questions relative to the true meaning of the specifications, reference shall be made to the City Council, whose decision thereon shall be final.

# **Record Drawings:**

All corrections on record drawings shall be done in red ink. Record drawings shall be a control set of the construction plans kept on the site for daily recording of "as built" conditions. Show dimensioned location of all buried facilities, such as drains, sumps, pipe, valves, electrical conduit, and irrigation wire.

Dimensions must be taken from above ground permanent, architectural objects, not plants or irrigation heads. All dimensions, notes, etc., shall be legible.

Record drawing shall be reviewed prior to all progress payment requests, and submitted prior to final inspection.

# Subsection 2-9 Surveying

# Add the following:

The Contractor shall preserve all benchmarks, monuments, survey marks, centerline ties and stakes and, in case of their impending removal or destruction by his/her operations he/she shall be responsible for notifying the City Engineer **prior** to their removal. Failure to provide such notification will result in the Contractor being liable for all costs associated with their replacement.

2-9.1 Permanent Survey Markers. Subsection 2-9.1 is hereby deleted and replaced with the following:

The Contractor shall retain a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State to Reset Survey Monuments. The Contractor is responsible for the filing and recording of the Survey Monuments.

2-9.2 Survey Service. Subsection 2-9.2 is hereby deleted and replaced with the following:

The Contractor shall retain a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State to provide construction staking. The Contractor is responsible for the accuracy of surveying adequate for construction.

2-9.4 Measurement and Payment. The following section is hereby added:

Full compensation for Construction Survey, including furnishing all labor, materials, tools, equipment, surveyor, supervision, and incidentals for doing all the work involved shall be considered as included in the other items of work.

Payment for monumentation restoration shall be paid at the contract unit price bid per intersection, including furnishing all labor, materials, tools, equipment, surveyor supervision, filing and recordation and other incidental for doing all the work involved and no separate payment shall be made thereof.

# Subsection 2-10 Authority of Board and Engineer

Add the following to the provisions of Subsection 2-10, "Authority of Board and Engineer":

The Engineer shall retain all written protests filed, and, upon completion of the work, shall submit all such protests to the City Council, together with a copy of the Engineer's prior written decisions for consideration by the City Council at the time of final acceptance of the work. The Contractor or its representative may appear and be heard by the City Council concerning any such protests. In connection with acceptance of the work and final payment under the Contract, the City Council shall make its determination with respect to each protest filed with the Engineer. The decision of the City Council shall be final.

#### Subsection 2-11 Inspection

Add the following to the provisions of Subsection 2-11, "Inspection":

Inspection work requested by the contractor outside of the prescribed working hours shall be paid by the contractor at the City's overtime rate.

# **SECTION 3 - CHANGES IN WORK**

#### Subsection 3-3 Extra Work

Add the following to the provisions of Subsection 3-3.1, "General":

The contractor shall proceed with extra work only upon written order from the Engineer. For such extra work the contractor shall receive payment as agreed upon in writing, or he shall be paid on force account. The contractor shall not exceed any of the quantities in the proposal unless prior authorization from the engineer is obtained in writing.

# Subsection 3-5 Disputed Work

Add the following to the provisions of Subsection 3-5, "Disputed Work":

- A. In accordance with Public Contract Code Section 20104, and for the purposes of Paragraphs B only, the term "Defined Claim" shall mean a separate demand by the Contractor to the Owner of a value of \$375,000 or less, for any of the following: (a) a time extension, (b) payment of money or damages arising from work done by the Contractor pursuant to the Contract Documents and payment of which is not otherwise expressly provided for or the Contractor is not otherwise entitled to, or (c) an amount of payment which is disputed by the Owner.
- B. <u>RESOLUTION OF DEFINED CLAIMS</u> Pursuant to Sections 20104 et seq., of the Public Contracts Code, the provisions of this Paragraph B shall apply to all "Defined Claims," as such term is defined in Paragraph A (i.e., claims that are in the amount of \$375,000 or less).

# Filing and Response to Defined Claim

The Defined Claim shall be in writing, include the documents necessary to substantiate the Defined Claim, and be filed with the Owner on or before the date of the final payment for the work.

If the Defined Claim is <u>less than \$50,000</u>, the new Owner shall respond in writing to the Defined Claim within 45 days of its receipt; or the Owner may request in writing within 30 days of receipt of the Defined Claim any additional documentation supporting the Defined Claim or relating to defenses or claims the Owner may have against the Contractor, and in such event the Owner's response shall be submitted to the Contractor within the later of 15 days after the receipt of the further documentation, or the time taken by the Contractor in producing the additional information.

If the Defined Claim is over \$50,000, the Owner shall respond in writing to the Defined Claim within 60 days of its receipt, or the Owner may request in writing within 30 days of receipt of the Defined Claim any additional documentation supporting the Defined Claim or relating to defenses or claims the Owner may have against the Contractor, and in such event the Owner's response shall be submitted to the Contractor within the later of 30 days after the receipt of the further documentation, or the time taken by the Contractor in producing the additional information or requested documentation.

# Meet and Confer Regarding Defined Claim

If the Contractor disputes the Owner's written response, or if the Owner fails to respond within the prescribed time, to the Defined Claim, the Contractor may notify the Owner in writing within 15 days, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of the demand, the Owner shall schedule a meet and confer conference within 30 days. If the claim or any portion thereof remains in dispute following the meet and

confer conference, the Contractor may file a claim pursuant to Government Code Section 900, <u>et seq.</u> For purposes of this Paragraph B, the running of the period of time within which a claim must be filed shall be tolled from the time the Contractor submits the Defined Claim until the time such Defined Claim is denied, including any period of time utilized by the meet and confer conference.

# Procedures for Civil Actions Filed to Resolve Defined Claims

The following procedures shall apply to any civil action filed pursuant to this Paragraph B:

<u>Non-Binding Mediation</u> Within 60 days, but no earlier than 30 days, following the filing of responsive pleadings, the court shall submit the matter to non-binding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, and shall be commenced within 30 days of the submittal and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court.

<u>Judicial Arbitration</u> If the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Section 1141.10, <u>et seq.</u>, of the Code of Civil Procedure, notwithstanding Code of Civil Procedure Section 1141.11. The civil discovery procedures of Code of Civil Procedure Section 2016, <u>et seq.</u>, shall apply, consistent with the rules pertaining to judicial arbitration. In addition to the provisions of Code of Civil Procedure Section 1141.10, <u>et seq.</u>, (a) arbitrators shall, upon stipulation of the parties, be experienced in construction law, and (b) any party appealing an arbitration award who does not obtain a more favorable judgment shall, in addition to payment of costs and fees, also pay the attorneys fees on appeal of the other party.

<u>Interest on Award of Judgment</u> In any suit filed pursuant to Paragraph (G)3.2, the Owner shall pay interest at the legal rate on any arbitration award or judgment, which interest shall begin to accrue on the date the suit is filed in a court of law.

C. <u>RESOLUTION OF CLAIMS OTHER THAN DEFINED CLAIMS</u> The provisions of this Paragraph C shall apply to all claims that are not "Defined Claims," as such term is defined in Paragraph A (i.e., claims that are in excess of \$375,000.00).

#### Written Claim

If the Contractor is not satisfied with any action by the City Council to resolve the protest of any claim other than a Defined Claim, it shall file with the City Council, within fifteen (15) days after such determination, a written claim which shall comply with the requirements for a claim under Division 3.6 of Title 1 (commencing with Section 810) of the California Government Code. The City Council shall take action with respect to any such claim as provided in Division 3.6 of Title 1 of the Government Code. Denial of such claim by the City Council shall be a prerequisite to the institution of any legal proceeding challenging the action of the City Council. If the Contractor fails to file a claim within the time specified herein, it shall be deemed satisfied with the action of the City Council with respect to its protests, and such failure to file a claim shall be deemed to be a waiver of all claims and demands arising out of or relating to this Contract.

# **Limitation Period**

Demand for Arbitration of any claim other than a Defined Claim shall be served upon the Owner within the time limits set forth in Division 3.6 of the California Government Code for commencement of legal proceedings against a local public agency.

#### Arbitration

Except as provided to the contrary herein, arbitration of any claim other than a Defined Claim may be initiated by the Contractor and shall be conducted in accordance with the provisions of California Code of Civil Procedure Sections 1280, et seq. The parties hereto agree that there shall be a single neutral Arbitrator who shall be selected in the following manner: (1) The Demand for Arbitration shall include a list of five names of persons acceptable to the Contractor to be appointed as Arbitrator. The Owner shall determine if any of the names submitted by Contractor are acceptable and, if so, such person will be designated as Arbitrator; (2) In the event that none of the names submitted by Contractor are acceptable to Owner or if for any reasons the Arbitrator selected in Step (1) is unable to serve, the Owner shall submit to Contractor a list of the five names of persons acceptable to Owner for appointment as Arbitrator to Contractor who shall in turn have 10 days in which to determine if one such person is acceptable; (3) If after Steps (1) and (2) the parties are unable to mutually agree upon a neutral Arbitrator, the matter of selection of an Arbitrator shall be submitted to the Los Angeles County Superior Court pursuant to Code of Civil Procedure Section 1281.6.

# <u>SECTION 4 - CONTROL OF MATERIALS</u>

# Subsection 4-1.3 Inspection Requirements

Add the following to the provisions of Subsection 4-1.3, "Inspection Requirements":

At the option of the Engineer, the source of supply of each of the materials shall be approved by the Engineer before delivery is started and before such material is used in the work. Representative preliminary samples of the character and quality prescribed shall be submitted by the contractor or producer of material to be used in the work, for testing or examination as desired by the Engineer. All tests of industry materials furnished by the contractor shall be made in accordance with commonly recognized industry standards or special methods and tests as prescribed in these specifications.

The Contractor shall furnish such samples of materials as are requested by the Engineer, without charge. No material shall be used until it has been approved by the Engineer. Samples will be secured and tested whenever necessary to determine the quality of material.

# **SECTION 5 - UTILITIES**

# Subsection 5-1 Location

Add the following to the provisions of Subsection 5-1, "Location":

Utilities for the purpose of these Special Provisions shall be considered as including but not limited to; pipelines; conduits; transmission lines; appurtenance of both public utilities and private industries, business, or individual; storm drains; sanitary sewers; and street lighting conduits.

The City has endeavored to locate and indicate on the drawings all underground utilities, facilities, and obstructions within the limit of the work under this contract or so nearly adjacent thereto as to interfere with the execution of the work. However, the accuracy and completeness of the utilities location indicated on the plans is not guaranteed. Sewer service lines, gas service connections, and street lights and traffic signal conduits may not be shown on the plans.

The contractor is responsible to determine the exact location of utilities and its service connections during construction. The contractor shall notify the City of the exact location of any utility or service connection which is not shown or incorrectly shown on the plans.

The contractor shall be expected to maintain liaison with the affected utility company representatives, and shall notify them prior to beginning of the job and each time the particular utility is or could possibly be affected at least 24 hours in advance:

1.	Verizon Company	800-483-1000
2.	Edison Company	800-611-1911
3.	Southern California Gas Company	800-427-2200
4.	San Fernando Water Department	818-898-1293
5.	L.A. City Municipal Services	800-342-5397
6.	L.A. Metropolitan Water Dist.	626-844-5610
7.	Time Warner Cable	818-700-6500
8.	Pacific Pipeline Co.	800-987-4737

# SECTION 6 - PROSECUTION, PROGRESS, AND ACCEPTANCE OF THE WORK

# Subsection 6-1 Construction Schedule and Commencement of Work

Add the following to the provisions of Subsection 6-1, "Construction Schedule and Commencement of Work":

The Contractor shall begin work within three (3) days of the commencement date stated in the Notice to Proceed and shall diligently prosecute the same to completion before the time required to complete the work stated in the Contractor's Proposal expires.

Construction work is limited to normal working hours unless prior written approval is obtained from the Engineer. Normal working hours for construction are between 7 a.m. and 3 p.m.

# Subsection 6-6 Delays and Extensions of Time

Add the following to the provisions of Subsection 6-6, "Delays and Extensions of Time":

The Contractor shall not be assessed with liquidated damages nor the cost of engineering and inspection during any delay in the completion of the work caused by Acts of God or of war, acts of the City, fire, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and weather or delays of subcontractors due to such causes, provided that the Contractor shall within ten (10) days from the beginning of any such delay notify the Engineer in writing of the cause of delay, who shall ascertain the facts and the extent of the delay, and his findings of the facts thereon shall be final and conclusive.

# Subsection 6-7 Time of Completion

Add the following to the provisions of Subsection 6-7, "Time of Completion":

Where a single shift is worked, eight (8) consecutive hours between 7 a.m. and 5 p.m. shall constitute a day's work at straight time for all workers. Forty (40) hours between Monday, 7 a.m., and Friday, 5 p.m. shall constitute a week's work at straight time. Holidays as herein referred to shall be deemed to be:

- New Year's Day
- ▶ Martin Luther King Day
- Washington's Birthday
- Cesar Chavez's Birthday
- ▶ Memorial Day
- ▶ Independence Day

- Labor Day
- Veterans Day
- ▶ Thanksgiving Day
- Day after Thanksgiving
- ▶ Christmas

# <u>Subsection 6-8 Completion and Acceptance</u>

Add the following to the provisions of Subsection 6-8, "Completion and Acceptance":

Final inspection and recommendation of completion by the Engineer does not constitute acceptance of the project. The contractor remains responsible for the project until acceptance of the work by the City Council.

# Subsection 6-9 Liquidated Damages

Add the following to the provisions of Subsection 6-9, "Liquidated Damages":

It is agreed by the parties to the contract that liquidated damages for work under this contract is the sum of Five Hundred Dollars (\$500.00) per day for each and every day's delay beyond the time prescribed to complete the work. Contractor agrees to pay such liquidated damages as herein provided, and in case the same are not paid, Contractor agrees that the City of San Fernando may deduct the amount thereof from any money due or that may become due the Contractor under the contract.

It is further agreed that in case the work called for under the contract is not finished and completed in all parts and requirements within the time specified, the City Council shall have the right to extend the time for completion or not, as may seem best to serve the interest of the City; and if it decides to extend the time limit for the completion of the contract, it shall further have the right to charge to the Contract, his heirs, assigns or sureties; and to deduct from the final payment for the work, all or any part, as it may deem proper, of the actual cost of engineering, inspection, superintendence, and other overhead expenses which are directly chargeable to the contract, and which accrue during the period of such extension, except that the cost of final surveys and preparation of final estimates shall not be included in such charges.

# SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

# Subsection 7-2 Labor

Add the following to the provisions of Subsection 7-2, "Labor":

Attention is directed to the provisions in Sections 1777.5 (Chapter 1411, Statutes of 1968) and 1777.6 of the Labor Code concerning the employment of apprentices by the contractor or any subcontractor under him.

Section 1777.5, as amended, requires the contractor or subcontractor employing tradesmen in any apprenticeable occupation to apply to the joint apprenticeship committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases shall not be less than one to five except:

- 1. When unemployment in the area of coverage by the joint apprenticeship committee has exceeded an average of 15 percent in the 90 days prior to the request for certificate, or
- 2. When the number of apprentices in training in the area exceeds a ratio of one to five, or
- 3. When the trade can show that it is replacing at least 1/30 of its membership through apprenticeship training on an annual basis statewide or locally, or
- 4. When the contractor provides evidence that he employs registered apprentices on all of his contracts on an annual average of not less than one apprentice to eight journeymen.

The contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employs registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

The contractor and any subcontractor under him shall apply with the requirements of Sections 1777.5 and 1777.6 in the employment of apprentices.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, ex officio the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

# Subsection 7-2.2 Laws

Add the following to the provisions of Subsection 7-2.2, "Laws":

Eight hours constitutes a legal days' work. The contractor shall forfeit, as a penalty to the City of San Fernando, \$50.00 for each workman employed in the execution of the contract by the contractor is required or permitted to work more than eight hours in any one calendar day and 40 hours in any one calendar week in violation of the provisions of the Labor Code, and in particular, Sections 1810 to 1815, thereof, inclusive, except that work performed by employees of contractors in excess of eight hours per day, and 40 hours during any one week, shall be permitted upon compensation for all hours worked in excess of eight hours per day at not less than <u>one-and-one-half times</u> the basic rate of pay as provided in said Section 1815.

The contractor shall comply with Labor Code Section 1775 in accordance with said Section 1775, the

contractor shall forfeit as a penalty to the City of San Fernando, \$50.00 for each calendar day or portion thereof, for each workman paid less than the stipulated prevailing rates for such work or craft in which such workman is employed for any work under the contract by him or by any subcontractor under him in violation of the provisions of the Labor Code and in particular, Labor Code Sections 1770 to 1780, inclusive. In addition to said penalty and pursuant to said Section 1775, the difference between such stipulated prevailing wage rates and the amount paid to each workman for each calendar day or portion thereof for which each workman was paid less than the stipulated prevailing wage rate shall be paid to each workman by the contractor.

In accordance with the provisions of Section 1770 to 1777 inclusive, of the Labor Code of the State of California, the City Council of San Fernando has adopted the general prevailing rates of per diem wages applicable to the work to be done as have been determined by the Director of the Department of Industrial Relations for the State of California.

# Subsection 7-3 Liability Insurance

Add the following to the provisions of Subsection 7-3, "Liability Insurance":

The public liability insurance shall include protection from claims caused by automobiles, trucks, or other vehicles of the contractor or any subcontractor while in use both within and outside the contract premises. The property damage insurance shall cover damage or destruction of any and all property other than that which is owned, leased, or in the care, custody or control of the Contractor or any subcontractor, with the liability limit applying to any one (1) accident, disaster or claim. All coverage provided by Contractor shall be considered primary and shall be completely exhausted before City coverage, if any and to be considered secondary, is exercised.

By appropriate endorsement, such policies of insurance required shall name the City of San Fernando as additionally insured with the Contractor with respect to the construction project described in these specifications and shall provide that such insurance coverage shall not be canceled or reduced without thirty (30) days prior written notice to the City of San Fernando. Said endorsement shall be a separate document. Certificates of the insurance carried evidencing such insurance coverage shall be delivered to the City of San Fernando concurrently with the execution of the contract by the Contractor.

# Subsection 7-5 Permits and Registrations

Add the following to the provisions of Subsection 7-5, "Permits and Registrations":

The Contractor shall procure all permits and licenses, pay all charges and fees, and give all notices necessary and incidental to the due and lawful prosecution of the work

Pursuant to State Bill 854, the following new requirements apply to all public works projects:

A contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this chapter, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the

contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded. The website for contractor registration with the Department of Industrial Relations (DIR) is https://efiling.dir.ca.gov/PWCR; the annual non-refundable fee, valid July 1 through June 30 (state fiscal year), is \$300.

Contractors who are awarded a public works project must submit electronic payroll records to the DIR's Compliance Monitoring Unit (CMU) in addition to providing wet-ink original copies to the City or its designated labor compliance enforcement officer.

# Subsection 7-8.1 Cleanup and Dust Control

Add the following to the provisions of Subsection 7-8.1, "Cleanup and Dust Control":

All excess dirt and construction debris shall be hauled away from job site each day.

# <u>Subsection 7-9 Protection and Restoration of Existing Improvements</u>

Add the following to the provisions of Subsection 7-9, "Protection and Restoration of Existing Improvements":

Existing improvements damaged or removed without written authorization shall be replaced by the contractor at no cost to the City. The contractor shall leave the work area in the same or better condition as compared to before beginning contract work.

# Subsection 7-10 Public Convenience and Safety

Add the following to the provisions of Subsection 7-10, "Public Convenience and Safety":

In the event that the Contractor fails to adequately provide for the public safety during the course of construction under this contract, and the City is required to provide for said public safety, the Contractor shall pay the City the cost of each service call, which will include all direct labor and material costs including fringe benefits, overhead, and applicable rental rates for the various pieces of equipment. Any and all costs incurred by the City as a result of the failure of the Contractor to provide for the public safety will be deducted from the amount due to the Contractor for the work done under this contract.

# Subsection 7-10.2 Storage of Equipment and Materials in Public Streets

Add the following to the provisions of Subsection 7-10.2, "Storage of Equipment and Materials in Public Streets":

Overnight stockpiling of construction debris or excavated materials is not allowed. Contractor must obtain written approval from the Engineer prior to storage of construction materials and equipment on the street where improvements are planned. Adequate flashing barricades shall be provided.

# Subsection 7-10.3 Street Closures, Detours, Barricades

Add the following to the provisions of Subsection 7-10.3, "Street Closures, Detours, Barricades":

In the event that any street must be closed, request must be received by the Engineer for approval and the following parties shall be notified at least 48 hours in advance.

a.	Public Works Department	818-898-1293
b.	Police Department	818-898-1267
c.	Fire Department	818-989-8561
d.	Mauran Ambulance	818-365-3182

The Contractor may choose to comply with the requirements of W.A.T.C.H. (Work Area Traffic Control Handbook) in providing devices and signage for pedestrian and vehicular traffic. The Contractor shall provide flagmen as necessary.

Overnight parking of construction equipment in the project site shall comply with the City parking restriction/regulations. Contractor shall provide adequate flashing barricades.

### SECTION 8 - FACILITIES FOR AGENCY PERSONNEL

No field offices for AGENCY personnel shall be required; however, the AGENCY's personnel shall have the right to enter upon the project at all times and shall be admitted to the offices of the Contractor if so provided by the Contractor for his own personnel.

### **SECTION 9 - MEASUREMENT AND PAYMENT**

### Subsection 9-3 Payment

Add the following to the provisions of Subsection 9-3, "Payment":

It is mutually agreed between the parties to the contract that no certificate given or payments made under the contract, except the final project acceptance, shall be conclusive evidence of the performance of the contract, either wholly or in part, against any claim of the party of the first part, and no payment shall be construed to be an acceptance of any defective work or improper materials.

The Contractor further agrees that the payment of the final amount due under the contract, and the adjustment and payment for any work done in accordance with any alterations of the same, shall release the City of San Fernando, City Council, and the Engineer from any and all claims of liability on account of work performed under the contract or any alteration thereof.

### Subsection 9-3.2 Partial and Final Payment

Add the following to the provisions of Subsection 9-3.2, "Partial and Final Payment":

The City shall, once in each month, cause an estimate in writing to be made by the Engineer of the total amount of work done and the acceptable materials furnished and delivered by the Contractor on the ground and not used, at the time of such estimate; and the value thereof. The City of San Fernando shall retain five percent (5%) of such estimated value of the work done and fifty percent (50%) of the value of the materials so estimated to have been furnished and delivered and unused as aforesaid as part security for the fulfillment of the contract by the Contractor, and shall monthly pay the Contractor, while carrying on the work, the balance not retained, as aforesaid, after deducting therefrom all previous payments and all sums to be kept or retained under the provisions of the contract. No such estimate or payment shall be required to be made, when, in the judgment of the Engineer, the work is not proceeding in accordance with the provisions of the contract, or

when in his judgment, the total value of the work done since the last estimate amounts to less than Three Hundred Dollars (\$300.00).

The Contractor may be required to submit updated work schedules and current record drawings (as-built) with requests for progress payments.

#### **SPECIAL PROVISIONS**

### 1.1 GENERAL REQUIREMENTS

All Conditions of the Contract apply to work of this Section.

In case of a conflicting statement between this section and other sections in the specifications or SSPWC, the terms in this Technical Specification shall prevail.

### 1.2 SCOPE OF WORK

1.2.1 This work includes furnishing labor, materials, tools, equipment, transportation and services required for complete and satisfactory construction of:

### 2016 CITY WIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION PROJECT NO. 7594 – PLAN NO. 721

in accordance with the improvement plans and Specifications prepared therefore by The City of San Fernando.

### A. GENERAL NATURE OF WORK

The general scope of work consists of furnishing and installing Connector Pipe Screens for pipe outlets of existing storm drain catch basins, as described herein. These devices are intended to reduce the amount of trash entering the storm drain system through curb opening catch basins or a curb opening catch basin with gratings.

### B. PRE-CONSTRUCTION MEETING AND MISCELLEANOUS REQUIREMENTS

Prior to commencing work, there will be a pre-construction meeting to be attended by the Engineer, Inspector, Street Superintendent, and Contractor, and at which time the Contractor shall be informed of specific construction and administrative procedures. The Contractor shall submit a detailed construction schedule, traffic control plan, and materials specifications proposed for use on the project during this meeting.

The Contractor shall secure approval of the traffic control plan prior to beginning any work.

### 1.3 SPECIFICATIONS AND APPENDED

- 1.3.1 Improvement plans, which form a part of the Contract Documents and which accompany these specifications, are included in the Appendices of the specifications.
- 1.3.2 Specifications which form a part of the Contract Documents consist of sections listed in the Table of Contents of these specifications.

1.3.3 Qualification of Standard Specifications: Wherever references are made in the Specifications to Standard Specifications or methods, reference shall be made to the Standard Specifications for Public Works Construction, 2015 Edition.

### 1.4 COORDINATION

The Contractors shall coordinate the work of the various trades and crafts to avoid possible interferences, duplication of work, or unfinished gaps and conflicts between operations. The various trades and crafts shall agree that, due to field conditions, minor departures from the improvement plans are bound to occur, and that such departures are self compensating so far as cost of additions or deductions are concerned. No claims for extras or time extensions will be allowed in connection with such minor changes due solely to field conditions.

### 1.5 CONSTRUCTION FORCE

It shall be construed that each subcontract is an integral part of the General Contract and the Contractor shall provide and maintain, in full operation, at all times during the performance of the contract, a sufficient crew of laborers, mechanics, and foremen to execute the work with dispatch. All construction related efforts and operations shall be continuous and sustained.

### 1.6 PROJECT PHASING AND SCHEDULING

The work shall be scheduled and completed in phases as follows:

- 1. Businesses will remain open during construction. The Contractor shall provide access at all times unless otherwise approved by the City Engineer in writing.
- 2. Disruptions to vehicular traffic should be minimized and coordinated to the greatest extent during construction.
- 3. The contractor shall provide pedestrian access to all businesses at all times. Store front access shall be provided with plywood walkway during construction.
- 4. All streets shall remain open to traffic at all times.
- 5. Please note trash pick up on project streets.

### 1.7 PUBLIC CONVENIENCE & NOTICES

The Contractor shall notify the residents and businesses affected by the construction, in writing, not less than 48 hours or two (2) working days, whichever is a greater period of notice, in advance of commencement of construction on the street. The notice shall be first approved by the City and shall include, but not be limited to:

- 1. Title and description of project.
- 2. The time and approximate dates of the work for that street.
- 3. Name and address of contractor including regular work day and off hour's emergency telephone numbers.
- 4. Telephone number of City.

### 1.8 EMERGENCY RESPONSE

The Contractor shall furnish the City with the names and telephone numbers of a minimum of two (2) responsible representatives able to expedite requests beyond the normal working hours and on weekends and holidays.

### 1.9 STORAGE YARD

The following shall replace section 7-10.2 of the Standard Specifications: The Contractor shall obtain approval from the City Engineer for any proposed storage yard site proposed to be located within the City, prior to delivery of equipment and or materials.

### 1.10 TRAFFIC CONTROL

### 1.10.1 **GENERAL**

The Contractor shall provide all traffic controls necessary to provide for the safe and expeditious movement of traffic, motorized and non-motorized (including pedestrian traffic), through the construction zones, as well as those necessary to provide for the safety of the work force performing the construction including two flagmen to direct traffic if deemed necessary by the Public Works Director/City Engineer. Traffic control set up shall be such that it would at least accommodate one open lane at all times.

The Contractor shall provide adequate pedestrian and vehicular traffic controls for the duration of the work in accordance with the Contract Documents including Subsection 7-10 of the SSPWC, the <u>Work Area Traffic Control Handbook</u> (WATCH), Caltrans' <u>Manual of Traffic Controls for Construction and Maintenance Work Zones</u> (Chapter 5 of the <u>Traffic Manual</u>, hereafter "Manual of Traffic Controls"), and the City of San Fernando. The Contractor may obtain the Manual of Traffic Controls from Caltrans District 7, 120 South Spring Street, Los Angeles, California.

The traffic control plan shall provide, place, and maintain precautionary traffic and construction signs, pedestals, lanterns, temporary reflective centerline and lane line tapes and painted barricades, delineators and/or provide flagmen in sufficient number to the satisfaction of the City Engineer for adequate traffic control in and on the streets that lead to the construction area per the traffic control plan(s) submitted.

The Contractor shall include any temporary pavement necessary for the safe and expeditious movement of traffic at no additional charge.

### 1.10.2 SIGNS

All excavations required for the purpose of installing traffic control signs, including construction area signs, shall be performed by hand methods without the use of power equipment, except that power equipment may be used if it is determined there

are not utility facilities in the area of the proposed holes. Contractor shall notify Underground Service Alert - Southern California (USA) at 800/227-2600 at least 2 working days, but no more than 14 calendar days, prior to commencing any excavation for said sign posts.

All signage conflicting with required traffic control signage shall be removed or suitably covered. Said signs shall be replaced unless designated for removal or relocation on the Plan.

This item shall include the temporary relocation of existing signs as necessary. Additionally, signs shall be posted directing pedestrians to the location of any relocated mailboxes.

### **1.10.3 PAYMENT**

Payment for <u>TRAFFIC CONTROL</u> shall be considered as included in the other items of work and shall include full compensation for all labor, materials, tools, equipment, and incidentals necessary to do all the work, and no additional compensation will be allowed therefor.

### 1 BID ITEM NO. 1 – CATCH BASIN CLEANING

### 1.1 GENERAL

The Contractor shall furnish all materials, equipment, tools and labor to clean out, i.e., remove trash and debris from within and around all catch basins in which retrofit devices will be installed under this Contract to the maintenance standards specified in this subsection. Clean out shall also include the catch basin connector pipe openings. The catch basin shall be clean at the time of the installation of the retrofit device. Any trash and debris that accumulates between the dates the catch basin is cleaned and the date the device will be installed shall be removed prior to installation of the device at the Contractor's expense.

### 1.2 METHOD OF TRASH REMOVAL

All debris and trash required to be removed from the catch basins shall be removed in a manner to be determined by the Contractor. The Contractor shall not allow any trash or debris to enter the connector pipe or main line as a result of the clean out operations.

### 1.3 DEBRIS DISPOSAL

All debris and trash removed under this Contract shall become the property of the Contractor and shall be legally disposed of away from the basin sites. The Contractor is responsible for proper disposal of the debris and trash, including obtaining approvals from all jurisdictional agencies, as applicable. The Contractor shall be responsible for removing any dead animal from inside a catch basin. The Contractor shall also be responsible for contacting and coordinating with the appropriate agency or organization in charge with the pickup and disposal of dead animals.

Prior to the start of the Work, the Contractor shall identify his intended disposal sites. In addition, the Contractor shall furnish to the Engineer at the end of each week the original or copies of all invoices or billings for the disposal of debris. The Contractor is responsible for reporting to the disposal facility, as accurately as practical, the jurisdictional percentage of the debris being disposed. These invoices must indicate the weights or volume of debris disposed.

Vehicles used by the Contractor to transport debris to approved dumpsites shall be so equipped that spillage does not occur. Covering of the load shall be required to prevent the debris from being blown off the transport vehicle. Vehicles and personnel operating these vehicles that do not comply with this requirement may be ordered removed from the project and shall not be utilized again.

### 1.4 MAINTENANCE CONDITIONS AND MAINTENANCE STANDARDS

Following are deficiencies in maintenance conditions and their corresponding

maintenance standards which shall apply to this Contract. The clean out of each catch basin shall meet the maintenance standards listed as follows:

	Description of Maintenance Condition Deficiency	Description of <u>Maintenance Standard</u>
1.	Trash and debris located immediately in front of curb opening or side opening of catch basin, and on top or between metal grates of grated catch basin.	1. No trash and debris located immediately in front of catch basin opening, and on top or between metal grates.
2.	Vegetation growing across and/or blocking the basin opening.	No vegetation blocking catcl basin opening.
3.	Trash and debris in the basin.	3. No trash and debris within the catch basin.
4.	Trash and debris in the connector pipe opening, upstream or downstream.	4. No trash and debris in connector pipe opening and/or in the connector pipe for a distance of 6 feet inside from the opening.

Trash and debris shall include, but is not limited to, mud, vegetation, and garbage.

Upon completion of a clean out operation at a catch basin and before leaving it, the Contractor shall sweep and clean the top surface of the catch basin and the area 2 feet around the basin, and shall remove any trash and debris resulting from the clean out operations. No debris is to be left at a catch basin for future pickup.

### 1.5 PAYMENT

Payment for <u>BID ITEM NO. 1 – CATCH BASIN CLEANING</u> shall be at the contract unit price bid per each (EA) and shall include full compensation for all labor, materials, tools, equipment, and incidentals necessary to do all catch basin cleaning, including dumping, and no additional compensation will be allowed therefor.

Bidders are advised that the quantity of debris located within each catch basin is unknown and, therefore, should be taken into consideration when preparing the bid.

### 2 BID ITEM NO. 2 – LA COUNTY PERMIT COMPLIANCE AND COORDINATION

### 2.1 GENERAL

The Contractor shall follow all guidelines set forth within the LA County Permit Requirements, which are included as Appendix C of these Specifications. This includes, but is not limited to, coordination with LA County Inspector to be present at installation at County Owned catch basins and compliance with LA County requirements and in-field direction given from LA County inspector.

### 2.2 PAYMENT

Payment for <u>BID ITEM NO. 2 –LA COUNTY PERMIT COMPLIANCE AND</u> <u>COORDINATION</u> shall be at the contract price bid per each (EA) and shall include full compensation for all labor, materials, tools, equipment, and incidentals necessary to do all the work included, but not limited to, LA County permit compliance and coordination, and no additional compensation will be allowed therefore.

### 3 BID ITEM NO. 3 – CONNECTOR PIPE SCREEN INSTALLATION

### 3.1 GENERAL

The work specified in this subsection includes the furnishing and installing Connector Pipe Screens for the pipe outlets of existing storm drain catch basins, as described herein. These devices are intended to reduce the amount of trash entering the storm drain system through curb opening catch basins or a curb opening catch basin with gratings. All devices shall conform to the following requirements:

The catch basin identification numbers listed in the Catch Basin Table, in Appendix B, mark the location of the catch basins that a Connector Pipe Screen, except as noted.

<u>Submittals:</u> Prior to initiating fabrication, the Contractor shall submit shop drawings, catalog cuts, and other information required per SSPWC Subsection 2-5.3, which completely describes the units to be installed under this Contract. The following information shall be included to this submittal for each type of unit:

- 1. Detailed shop drawings and descriptions of all components of the unit, showing all dimensions, materials used, connection details, assembly details, and mounting details. The shop drawings shall clearly describe the mechanical operation of the unit. Shop drawings shall note the correct title of the City project, Agency name, and LACFCD Permit Number (PCFL 201601148).
  - a. Shop drawings must be submitted and approved by the County prior issuance of a permit.

- 2. Installation details and instructions.
- 3. Warranty information, including contact information for replacement parts.
- 4. Performance and test data, including a list of existing installations with a contact person from the owner of the facility in which each unit is installed and the date of installation.
- 5. Recommended cleaning and maintenance schedule and procedures to maintain the proper functioning of the unit, including replacement schedule of parts for the entire unit.
- 6. Contractor shall furnish ten (10) copies of a Technical Manual for CPS Units and ten (10) electronic copies on CD-ROM in portable document format (PDF). The Technical Manual shall be submitted prior to field acceptance of the work. Each manual shall, at minimum, include the following:
  - a. Title Sheet
  - b. Table of Contents
  - c. Manufacturer, supplier, spare parts, and servicing location information, including name, address, phone number of the manufacturer and local representative.
  - d. Recommended installation, adjustment, calibration, and troubleshooting procedures.
  - e. Lubrication recommended, if applicable.
  - f. Recommended preventative maintenance and maintenance procedures.
  - g. Complete parts list, by generic title and identification number, with isometric views and schematics for each assembly.
  - h. Recommended spare parts list and list of special tools and equipment required for O&M.
  - i. Disassembly, overhaul, reassembly, and realignment instructions.
  - j. A discussion of the warranty and how to obtain warranty service.
- 7. Upon completion of the project, contractor must update the table included in Appendix B and submit an as-built spreadsheet, containing installed dimensions, product manufacturer's name and contact information, and unit names and models.

### 3.2 MANUFACTURER'S WARRANTY

All devices installed as part of these Special Provisions shall be covered by a three (3) year manufacturer's warranty, starting on the date of acceptance of the project by the AGENCY. The warranty shall cover the devices against corrosion, excessive wearing of moving parts, and operational malfunction for any reason. The

manufacturer shall provide, at no cost to the AGENCY, all labor, material and equipment required to repair or replace the devices during the warranty period including, but not limited to, calibration and adjustment of moving parts to ensure the device operates properly. There shall be no limit to the number of repairs or replacements required during the warranty period to ensure that the devices operate properly.

### 3.3 PRELIMINARY INSPECTION AND MEASUREMENT

The Contractor shall inspect each catch basin included in this Contract for unsound conditions such as but not limited to: a) exterior damage, b) bent or missing protection bars, c) damaged manholes, d) damaged face plate, e) other physical damage, f) catch basins requiring protection bars per SSPWC Standard Plan 310-3. Since these types of conditions may interfere with the installation of retrofit devices, a list of catch basins with such unsound conditions shall be submitted to the Engineer per SSPWC Subsection 2-5.3. The list shall also identify catch basins that, based on inspection, the Contractor determines are not suited for the type of device listed in the Catch Basin Table. Upon receipt of this information, the Engineer will substitute an appropriate device or a catch basin at a different location.

Any subsequently disclosed damage to a catch basin not included in the list submitted by the Contractor will be assumed to be the result of the Contractor's clean out or installation operations and shall be corrected at the Contractor's expense.

The dimensions shown in the Catch Basin Table, included in Appendix B, are approximate and included for bid purposes only. The Contractor shall make detailed measurements of each catch basin, including the size and location of the connector pipe, for the proper fabrication of the devices. Improper fabrication of devices due to errors in the Contractor's measurements shall be corrected at its own expense. The Contractor shall submit written records of its measurements to the Engineer per SSPWC Subsection 2-5.3, prior to the fabrication of the units. The Contractor shall identify in the measurement records catch basins that, based on actual measurements, are not suited for the type of device listed in the Catch Basin Table. Upon receipt of this information, the Engineer will substitute an appropriate device or a catch basin at a different location.

### 3.4 CATCH BASIN PHOTOS

The Contractor is responsible for taking photos of each catch basin included in the list to be installed with a connector pipe screen. Contractor shall take before cleaning, after cleaning, and after CPS installation pictures and provide a photo log of picture documentation for each catch basin. The photo log shall accurately display all three photos of each catch basin per row and accurately provide the catch basin number with said photos. Full Compensation for furnishing all labor, equipment, and materials for the clean out and disposal of trash and debris from catch basins, including dump fees, shall be considered as included in the other item of work and no separate payment thereof.

### 3.5 REMOVAL AND REINSTALLATION OF CATCH BASIN MANHOLE COVERS

The Contractor shall remove the existing manhole cover as required to access the inside of the catch basin and shall reinstall the existing catch basin manhole cover whenever the catch basin is left unattended. Screws or bolts that cannot be reused and were not damaged by the Contractor shall be replaced with new ones meeting the requirements specified in the applicable standard plans as directed by the Engineer. The furnishing and replacement of the screws or bolts, as directed by the Engineer, shall be considered as included in the prices bid for the various contract items of work, and no separate payment will be made therefor.

The Contractor's attention is directed to the possibility that the catch basin cover screws may be frozen. It shall be the Contractor's responsibility to remove these frozen cover screws. If during their removal the catch basin covers or screws should become damaged, it shall be the Contractor's responsibility to replace them in accordance with the applicable standard plan and to redrill and tap new holes, if necessary, at no additional cost to the AGENCY. If heat is used to facilitate removal of frozen cover screws, the screws must be checked the following workday to verify that they have not refrozen.

Before leaving a catch basin, the Contractor shall thoroughly clean all debris from the manhole frame and cover. When replacing the catch basin covers, the Contractor shall grease all catch basin cover screws with a high temperature thread lubricant and seal grease (Jet-Lube by Koper-Kote or equal) and shall furnish and replace any missing screws.

### 3.6 STAFF GAUGE

The Contractor shall paint a staff gauge per Appendix C. The staff gauge shall be located such that it is visible through the curb opening or grating of the catch basin.

### 3.7 CONNECTOR PIPE SCREENS (CPS)

The CPS prevents trash and debris from entering the storm drain system during dry weather and moderate storm flows by keeping the trash and debris inside the catch basin.

Requirements: All catch basins, regardless of ownership (City or LACFCD), shall be constructed per the LACFCD requirements. The CPS units shall be designed to retain all trash larger than 5 mm (0.197 inches) in the catch basin, and shall comply with the following items.

1. The CPS shall be sized, fabricated and installed conforming to the configurations shown in Appendix C, prepared by the LACDPW.

- 2. The CPS shall not interfere with the operation of the existing or proposed installed ARS.
- 3. The CPS unit shall have a sufficient structural integrity to withstand a lateral force of standing water (62.4 lb/ft3) within the catch basin area when the screen becomes 100% clogged. The CPS unit shall be bolted to the catch basin walls.
- 4. The CPS shall be configured with deflector plates or screens preventing trash from falling between the screen and connector pipe. The deflector plate shall be designed to withstand a vertical load of 10 lbs per square foot.
- 5. The gap at the bottom, sides, and joints of the CPS unit shall not exceed 5mm (0.197 inches).
- 6. The perimeter of the CPS shall include a structural frame for stiffness, a bolting surface to fasten the CPS to the wall of the catch basin, and support for the upper portion of the CPS unit referred as the "bypass" (see CPS Configuration Appendix C).
- 7. All parts/components of the CPS unit must be sized to fit through the catch basin's manhole opening.
- 8. When the CPS unit encroaches more than 4 inches into the manhole opening, the Contractor shall install a Removable CPS unit. The Removable CPS unit shall be designed and installed with a removable panel allowing access into the catch basin. The removable panel shall be easily disengaged from the rest of CPS assembly upon entry or from the outside of the catch basin.
- 9. It is the responsibility of the Contractor to field verify the location and dimensions of these basins as listed in the List of Catch Basins in Appendix B.
- 10. The Contractor shall submit shop drawings, warranty, and technical memo for review and approval by the Agency. Upon approval, the Contractor shall furnish eight (8) hard copies of a Technical Manual for ARS and CPS Units and eight (8) electronic copies on CD-Rom in Portable Document Format (PDF). The Technical Manual shall be submitted prior to field acceptance of the permitted work. Full compensation for furnishing and installing the removable CPS unit shall be paid under the Contract Unit Price for "Connector Pipe Screen Installation," and no separate payment thereof.

### 3.8 MATERIALS AND FABRICATION

The CPS shall meet the following requirements:

- 1. The CPS frame shall be manufactured/fabricated from Type S-304 stainless steel, or an Agency approved equal stainless steel alloy. The Structural members shall have a minimum thickness of 3/16 inches.
- 2. The CPS screen shall be manufactured/fabricated from perforated metal of Type S-304 stainless steel, or an Agency approved equal stainless steel alloy. The screen shall have a minimum thickness of fourteen (14) gauge (0.0781 inches) The geometrical opening shape shall have a diameter of 5mm (0.197 inches).
- 3. The screen material used shall have at least 45% open area.

- 4. Any edge of the CPS that is not flush with the wall or floor of the catch basin shall be smooth with no prongs or jagged edges.
- 5. The assembly bolts, screws, nuts, and washers shall be fabricated entirely from Type S-316 stainless steel. The concrete anchor bolts shall use a Red Head Multi-Set II drop-in anchor, SSRM-38, with Type 316 stainless steel threaded rods, nuts and washers, or Agency approved equal.

### 3.9 MEASUREMENT AND PAYMENT

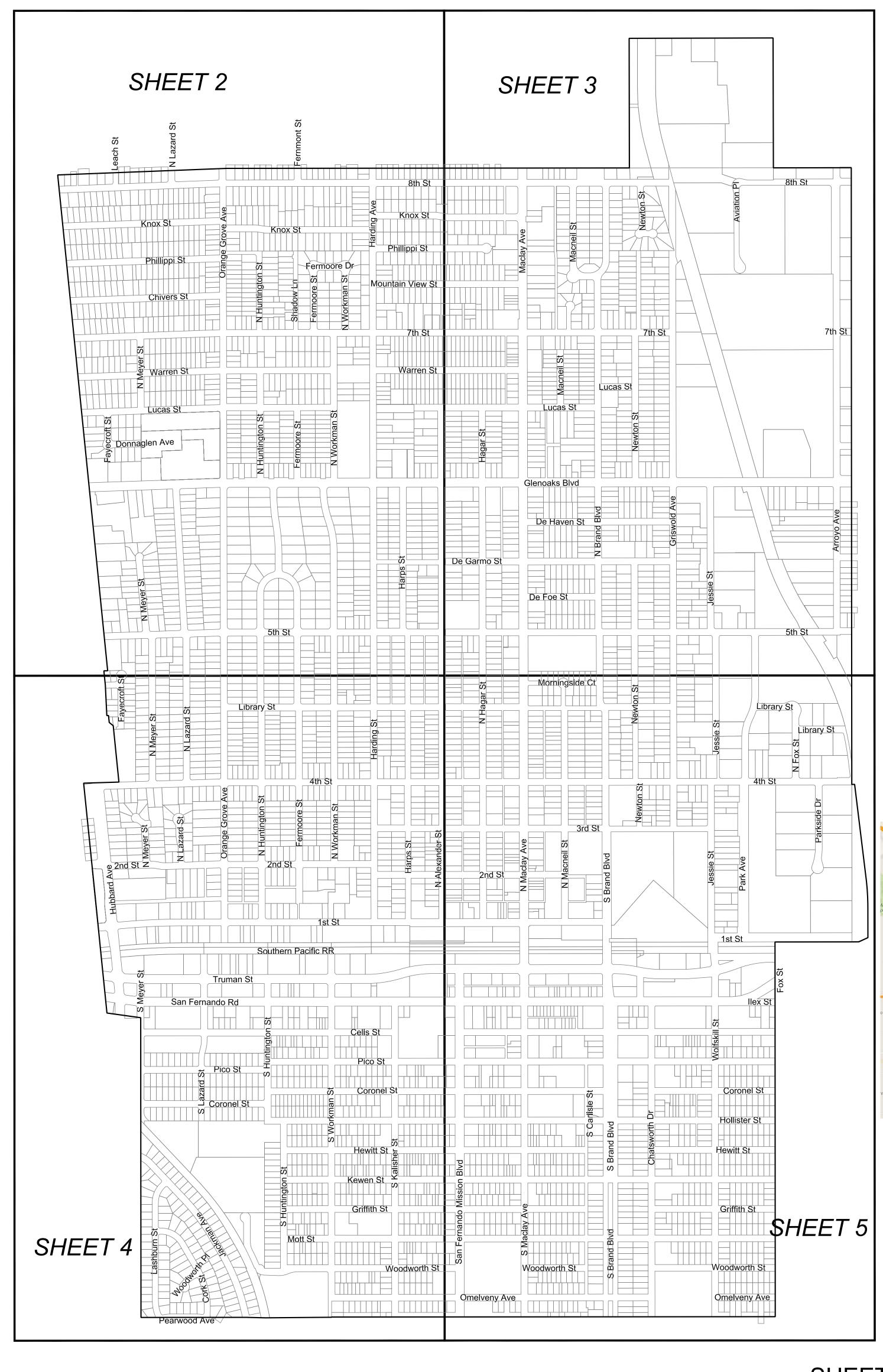
INSTALLATIONS shall be at the contract unit price bid per each and shall include full compensation for furnishing all labor, materials, tools, equipment, and incidentals and for doing all work involved in the furnishing and installation of CPS units complete and in place, including, but not limited to, all submittals; prototype testing; costs associated with the 3-year warranty; onsite testing and calibration; painting of staff gauges on the catch basin wall; furnishing and installing; and all other costs involved in the Work not specifically covered by other items of work and per LACDPW encroachment permit requirements, and no additional compensation will be allowed therefore.

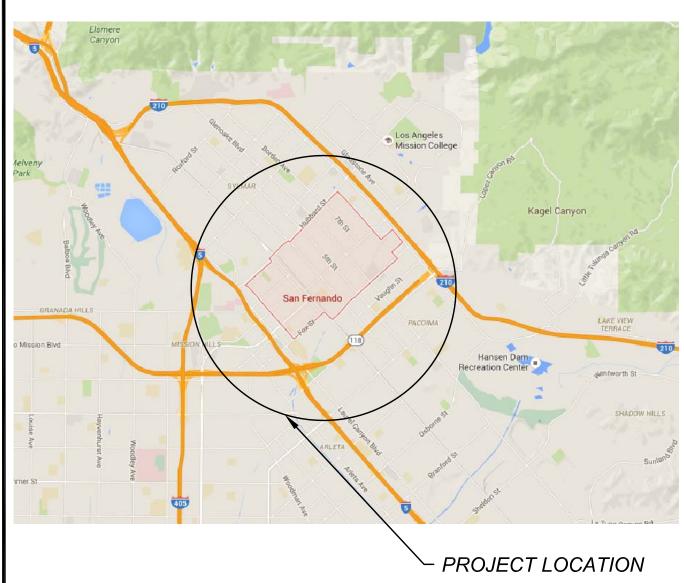
-- End of Section -

# APPENDIX A PROJECT LOCATION MAPS

# CITY OF SAN FERNANDO 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION PROJECT NO. 7594 - PLAN NO. 721

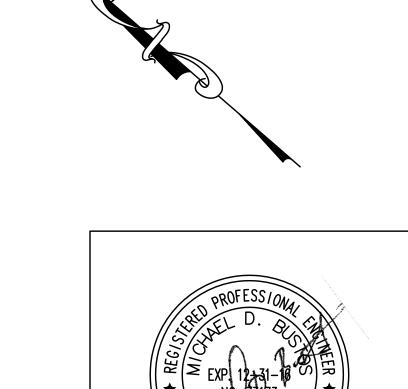
CITY OF SAN FERNANDO





PROJECT LOCATION MAP

# KEY MAP





374 POLI STREET, SUITE 101 VENTURA, CALIFORNIA 93001 (805) 653-6597 6-23-16

# SHEET INDEX

CITY ENGINEER

DRAWN BY DESIGNED BY CHECKED BY FIELD BOOK

DATE

**REVISION** 

SHEET 1 - TITLE SHEET/KEY MAP SHEET 2 - CATCH BASIN LOCATIONS - NORTHWEST QUADRANT SHEET 3 - CATCH BASIN LOCATIONS - NORTHEAST QUADRANT SHEET 4 - CATCH BASIN LOCATIONS - SOUTHWEST QUADRANT

SHEET 5 - CATCH BASIN LOCATIONS - SOUTHEAST QUADRANT

# DEPARTMENT OF PUBLIC WORKS

# **CONNECTOR PIPE SCREEN INSTALLATION**

CITY OF SAN FERNANDO

	PR	OJECT TITLE SHEET/KE	EY MAP
ATLAS NO.		REFERENCE DRAWINGS:	
APPROVED			DATE: JUNE 2016
_	CITY E	NCINEED DATE	SCALE: NO SCALE

DATE

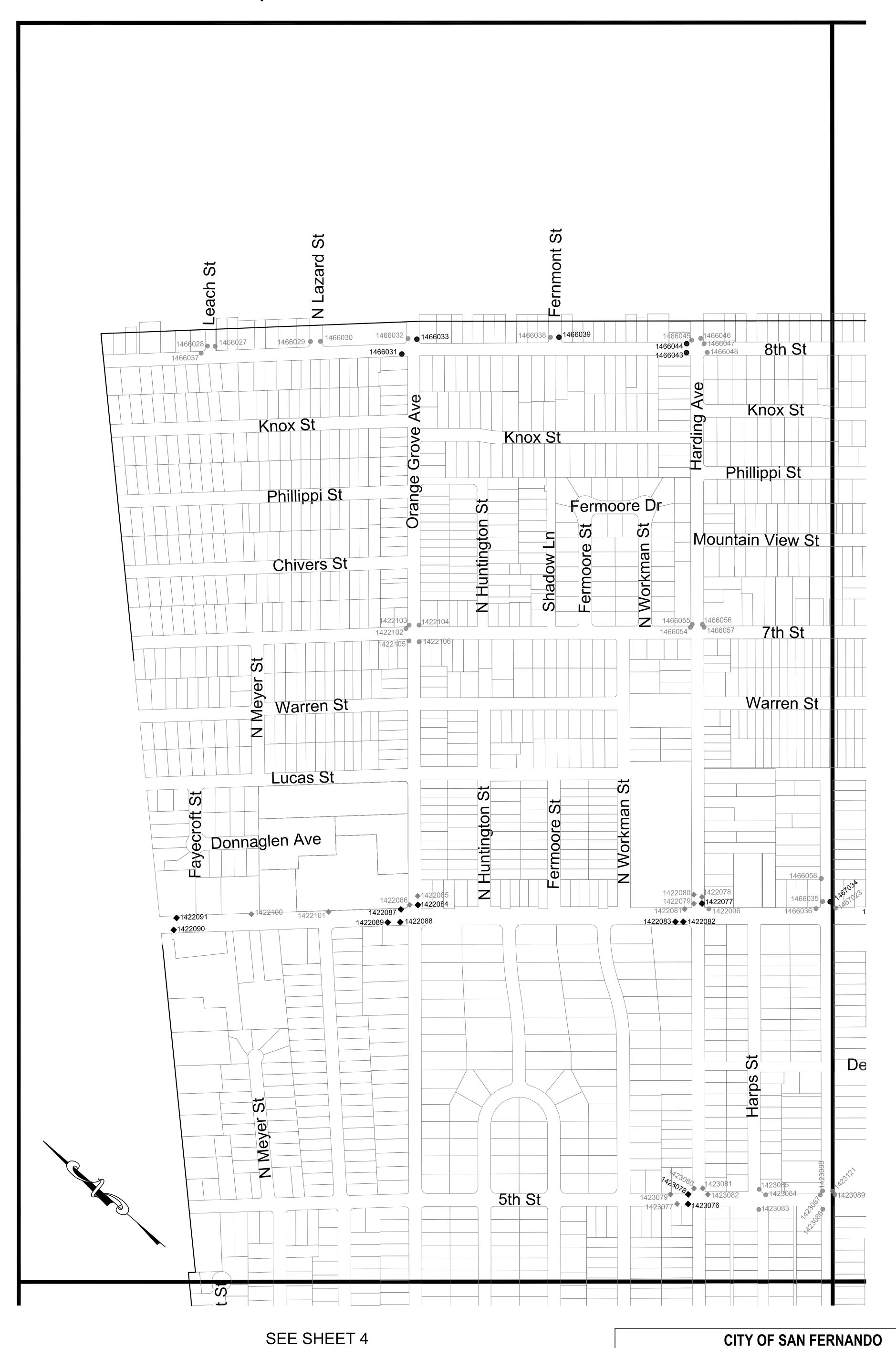
DATE

PROJECT NO. 7594

PLAN NO. 721

SHEET 1 OF 5

# QUADRANT 1 - NORTHWEST



SEE SHEET 3

# LEGEND CITY OWNED CATCH BASIN TO BE RETROFITTED EX. CITY OWNED CATCH BASIN TO BE PROTECTED IN PLACE COUNTY OWNED CATCH BASIN TO BE RETROFITTED EX. COUNTY OWNED CATCH BASIN TO BE PROTECTED IN PLACE



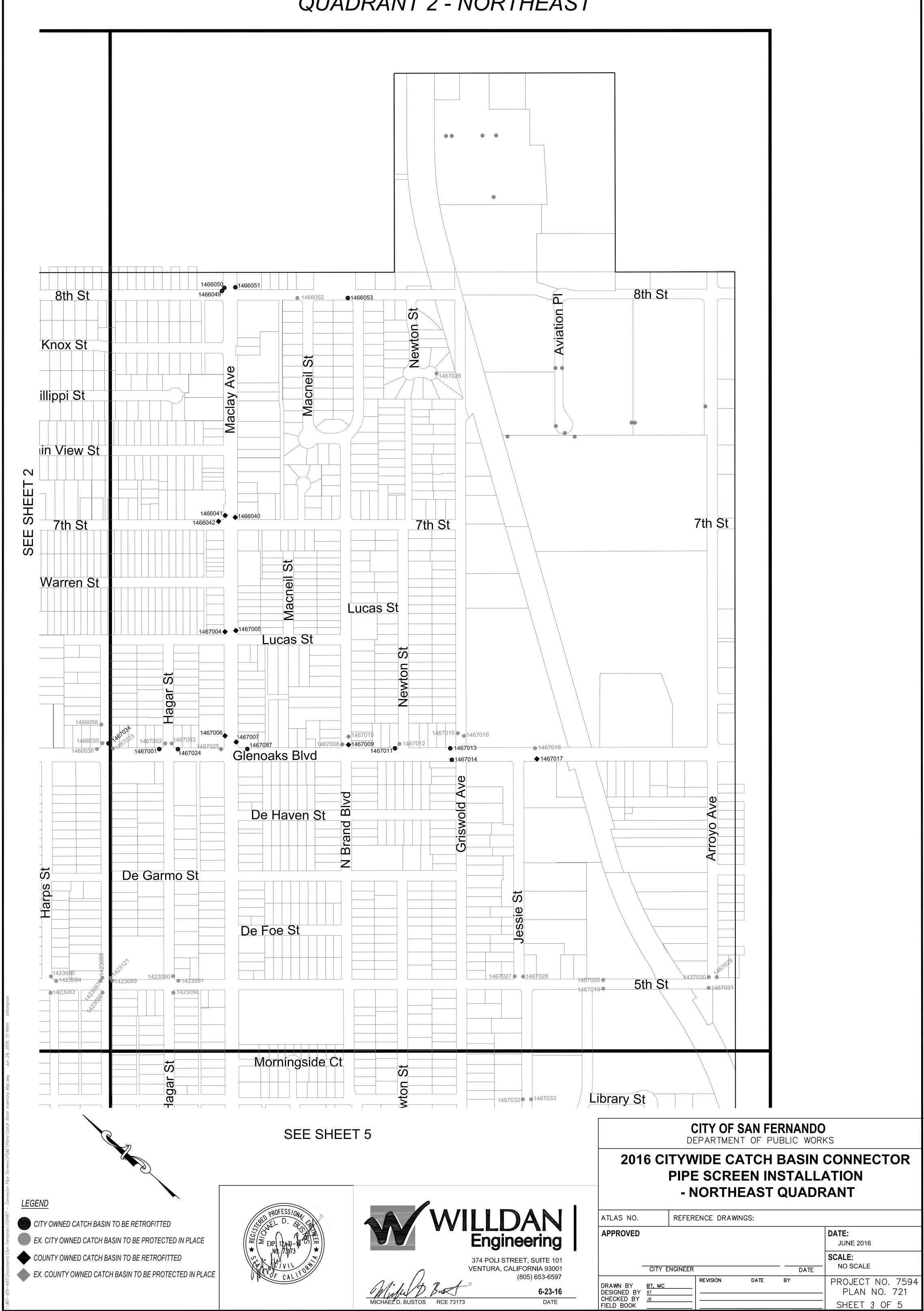


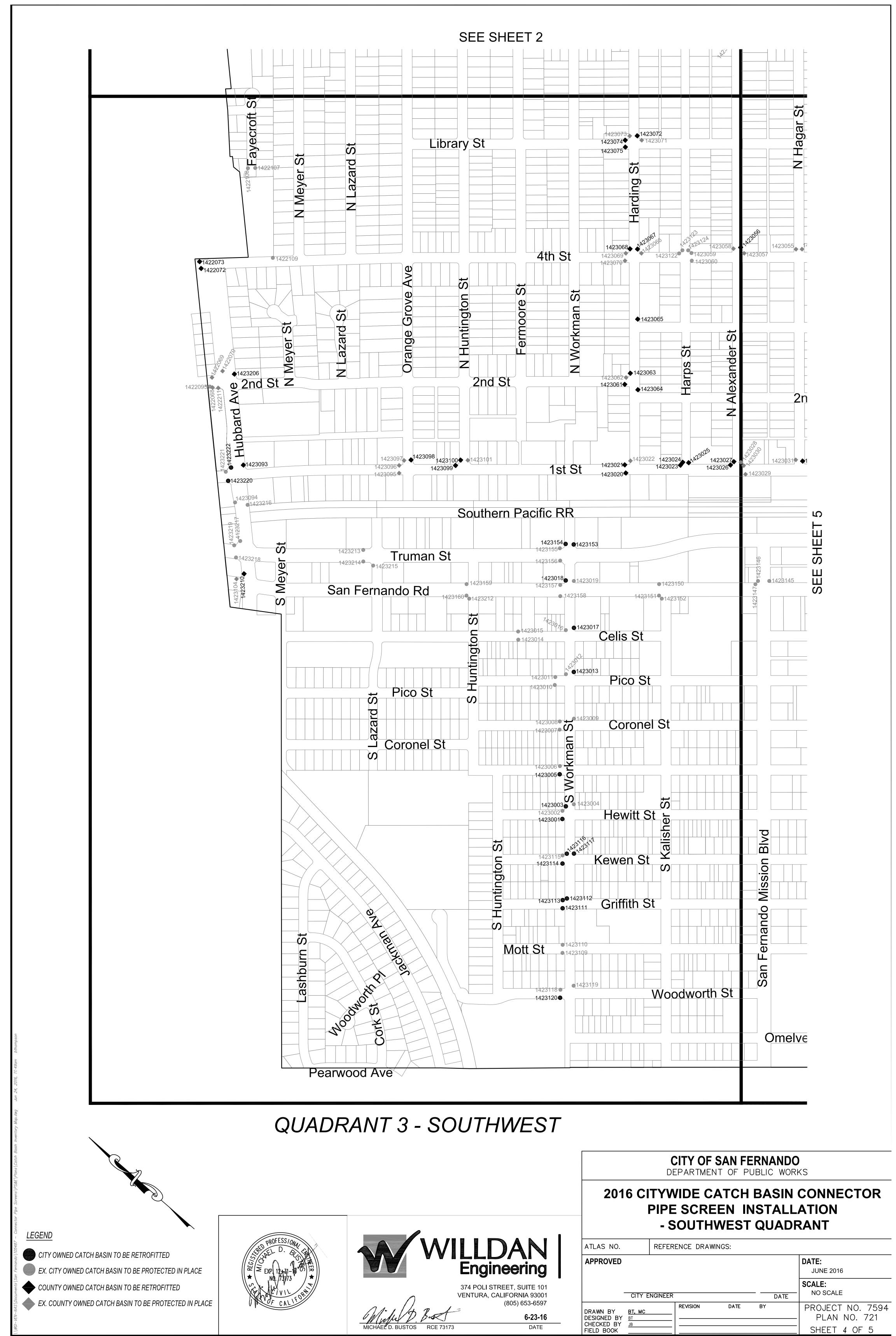
**6-23-16**DATE

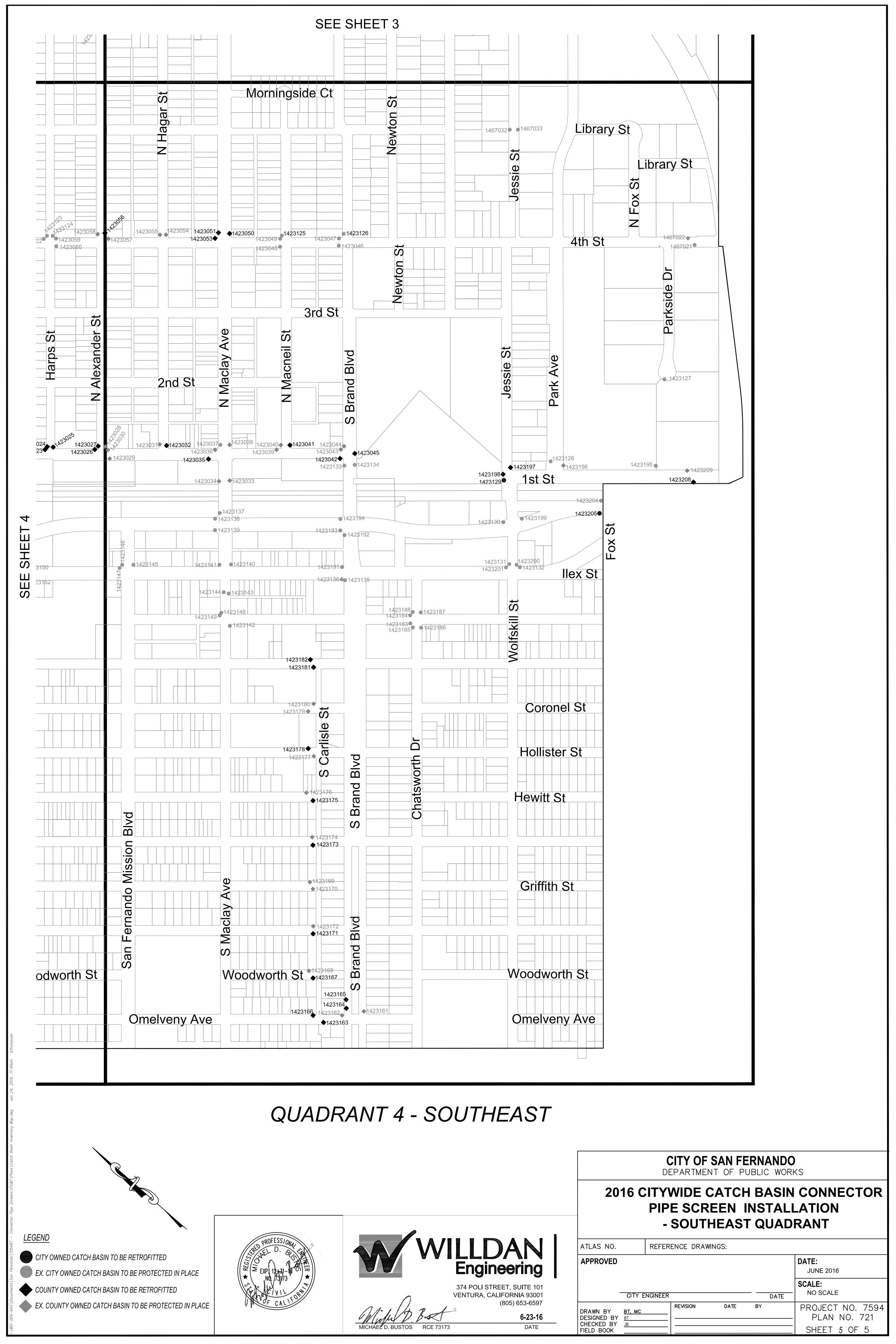
# 2016 CITYWIDE CATCH BASIN CONNECTOR PIPE SCREEN INSTALLATION

		- N(	ORIH	IWES	QUA	<b>ADI</b>	KANI
ATLAS NO.		REFEREN	CE DRAW	NGS:			
APPROVED							DATE: JUNE 2016
-	CITY E	NGINEER				TE	SCALE: NO SCALE
DRAWN BY DESIGNED BY CHECKED BY FIELD BOOK	BT, MC BT JB	RI — — — —	EVISION	DATE	BY		PROJECT NO. 7594 PLAN NO. 721 SHEET 2 OF 5

# QUADRANT 2 - NORTHEAST







# APPENDIX B CATCH BASIN TABLE

## CITY OF SAN FERNANDO CATCH BASIN INVENTORY SPREADSHEET

OWNED BY	CATCH BASIN ID	NO.	DRAINS TO	ADDRESS	T.G.	STREET	NEAREST CROSS STREET	LOCATION OF CORNER	NEW DATA	GPS (NORTHING)	GPS (EASTING)	BASIN WIDTH (FT) [W]		FL TO OUTLET FL [Y] (IN)	V DIM [X+Y] (FT)	INLET PIPE SIZE (IN)	INLET PIPE	OUTLET PIPE SIZE (IN)	OUTLET PIPE LOCATION	COMMERCIAL OR INDUSTRIAL AREA	TYPE OF CATCH BASIN	PLAN		ARS UNITS	
CITY	1423	1	East Canyon Channel	1402 Hewitt St	482-A7	Hewitt St	Workman St	sw	N/A	1926098.24515124	6426083.14009073	3.5	7	Not accesible	N/A	Not visible	4	Not visible	Not visible	No	Curb opening	300-2	0	Yes	No
CITY	1423	3	East Canyon Channel	1403 Hewitt St	482-A7	Workman St	Hewitt St	nw	N/A	1926131.36766614	6426151.95316833	3.5	7	Not accesible	N/A	Not visible	Not visible	Not visible	Not visible	No	Curb opening	300-2	0	Yes	No
CITY	1423	5	East Canyon Channel	1404 Hollister St	482-A7	Hollister St	Workman St	sw	N/A	1926280.80620493	6426269.40583435	7	7	29	3.00	Not visible	4	21	2	No	Curb opening	300-2	0	No	No
CITY	1423	12	East Canyon Channel	1415 Pico St	482-A7	Workman St	Pico St	nw	ARS UNIT INSTALLED	1926635.32764012	6426732.91746528	3.5	7	Not accesible	N/A	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	Yes	No
CITY	1423	13	East Canyon Channel	1349 Pico St	482-A7	Workman St	Pico St	se	ARS UNIT INSTALLED	1926609.53901163	6426772.77564506	3.5	7	Not accesible	N/A	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	Yes	No
CITY	1423	17	East Canyon Channel	1301 Celis St	482-A7	Workman St	Celis St	se	ARS UNIT INSTALLED	1926777.27430771	6426966.96713482	3.5	7	Not accesible	N/A	N/A	N/A	Not visible	Not visible	Yes	Curb opening	300-2	0	Yes	No
CITY	1423	18	East Canyon Channel	101 S Workman St	482-A7	Workman St	San Fernando Rd	nw	ARS UNIT INSTALLED	1926994.42575631	6427143.76884833	3.5	8	Not accesible	N/A	Not visible	Not visible	Not visible	Not visible	Yes	Curb opening	300-2	0	Yes	No
CITY	1423	111	East Canyon Channel	1404 Griffith St	481-J7	Griffith St	Workman St	sw	N/A	1925756.31563261	6425691.9331069	3.5	7	Not visible	N/A	Not visible	4	Not visible	2	No	Curb opening	300-2	0	Yes	No
CITY	1423	113	East Canyon Channel	1401 Griffith St	481-J7	Workman St	Griffith St	nw	N/A	1925774.76337668	6425751.33707796	2	0	36	3.00	Not visible	Not visible	Not visible	Not visible	No	Curbside Grating	303-3	1	No	No
CITY	1423	114	East Canyon Channel	1404 Kewen St	481-J7	Kewen St	Workman St	sw	N/A	1925927.51811129	6425887.81047444	3.5	7	Not visible	N/A	Not visible	4	Not visible	2	No	Curb opening	300-2	0	Yes	No
CITY	1423	116	East Canyon Channel	1401 Kewen St	481-J7	Workman St	Kewen St	nw	N/A	1925946.158618	6425947.62563002	2	0	36	3.00	18	4	Not visible	Not visible	No	Curbside Grating	303-3	1	No	No
CITY	1423	117	East Canyon Channel	1345 Kewen St	481-J7	Workman St	Kewen St	se	N/A	1925915.24407284	6425975.37857118	3.5	7	29	3.00	N/A	N/A	18	4	No	Curb opening	300-2	0	No	No
CITY	1423	120	East Canyon Channel	737 S Workman St	481-J7	Woodworth St	Workman St	sw	N/A	1925425.57800975	6425289.2004447	3.5	7	35	3.50	Not visible	4	36	8	Yes	Curb opening	300-2	0	No	No
CITY	1423	129	BI 7001	219 Jessie St	502-B1	Jessie St	Robert F Kennedy Dr	sw	N/A	1924786.20727244	6429714.7439092	7	6	24	3.00	N/A	N/A	18	6	Yes	Curb opening	300-2	0	No	No
CITY	1423	153	East Canyon Channel	98 S Workman St	482-A7	Workman St	Truman St	ne	N/A	1927096.66841182	6427332.39185198	15	7	29	3.00	N/A	N/A	Not visible	Not visible	Yes	Curb opening	300-2	0	No	No
CITY	1423	154	East Canyon Channel	1407 S Workman St	482-A7	Workman St	Truman St	nw	N/A	1927134.27345307	6427303.77306943	3.5	7	Not accesible	N/A	Not visible	Not visible	Not visible	Not visible	Yes	Curb opening	300-2	0	Yes	No
CITY	1423	205	BI 7001	698 Truman St	502-B1	Truman St	Fox St	s	N/A	1924237.02866448	6429935.9859247	3.5	12	60	6.00	Not visible	Not visible	Not visible	Not visible	Yes	Curb opening CB w/grating	302-3	1	No	No
CITY	1423	220	BI 0572	2100 Frank Modugno Dr	482-A6	Frank Modugno Dr	Hubbard Ave	sw	N/A	1928858.3250163	6426291.85006303	14	8	Not accesible	N/A	Not visible	Not visible	Not visible	Not visible	No	Curb opening	300-2	0	Yes	No
CITY	1423	222	BI 0572	2100 Frank Modugno Dr	482-A6	Hubbard Ave	Frank Modugno Dr	ne	N/A	1928896.30052654	6426361.25033502	10	8	Not accesible	N/A	Not visible	Not visible	Not visible	Not visible	No	Curb opening	300-2	0	Yes	No
CITY	1466	31	Wilson Canyon Channel	1173 Orange Grove Ave	482-C5	8th St	Orange Grove Ave	sw	N/A	1932421.93218856	6431882.88006575	10	7	32	3.25	N/A	N/A	Not visible	Not visible	No	Curb opening	300-2	0	No	No
CITY	1466	33	Wilson Canyon Channel	1825 8th St	482-C5	Orange Grove Ave	8th St	se	N/A	1932414.2216834	6431980.91248009	14	7	32	3.25	N/A	N/A	18	6	No	Curb opening	300-2	0	No	No
CITY	1466	39	Wilson Canyon Channel	1625 8th St	482-C5	Fernmont St	8th St	ne	N/A	1931920.90203689	6432422.14528921	10	7	29	3.00	N/A	N/A	18	6	No	Curb opening	300-2	0	No	No
CITY	1466	43	Wilson Canyon Channel	1171 Harding Ave	482-C5	8th St	Harding Ave	sw	N/A	1931425.83904432	6432757.26407368	7	7	29	3.00	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	No	No
CITY	1466	44	Wilson Canyon Channel	1201 Harding Ave	482-C5	8th St	Harding Ave	nw	N/A	1931452.38599971	6432789.56634013	3.5	7	32	3.25	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	No	No
CITY	1466	49	Wilson Canyon Channel	1201 N Maclay Ave	482-C5	8th St	N Maclay St	nw	N/A	1930456.61476271	6433656.59334709	0	0	36	3.00	Not visible	Not visible	Not visible	Not visible	Yes	Curbside Grating	303-3	1	No	No
CITY	1466	50	Wilson Canyon Channel	1201 N Maclay Ave	482-C5	N Maclay St	8th St	nw	N/A	1930458.12251	6433678.46564969	0	0	30	2.50	Not visible	Not visible	Not visible	Not visible	Yes	Curbside Grating	303-3	1	No	No
CITY	1466	51	Wilson Canyon Channel	1200 N Maclay Ave	482-C5	N Maclay St	8th St	ne	N/A	1930412.35719422	6433722.57208536	7	9	36	3.75	N/A	N/A	18	6	Yes	Curb opening	300-2	0	No	No
CITY	1466	53	Wilson Canyon Channel	900 8th St	482-D6	8th St	Macneil St	SW	N/A	1929884.33941621	6434099.90752608	14	7	33	3.33	N/A	N/A	Not visible	Not visible	Yes	Curb opening	300-2	0	No	No

# CITY OF SAN FERNANDO CATCH BASIN INVENTORY SPREADSHEET

OWNED BY	CATCH BASIN ID	NO.	DRAINS TO	ADDRESS	T.G.	STREET	NEAREST CROSS STREET	LOCATION OF CORNER	NEW DATA	GPS (NORTHING)	GPS (EASTING)	BASIN WIDTH (FT) [W]	OPENING HEIGHT [X] (IN)	FL TO OUTLET FL [Y] (IN)	V DIM [X+Y] (FT)		INLET PIPE LOCATION	OUTLET PIPE SIZE (IN)	OUTLET PIPE LOCATION	COMMERCIAL OR INDUSTRIAL AREA	TYPE OF CATCH BASIN	SSPWC STD. PLAN NO.	NUMBER OF GRATES	ARS UNITS	
CITY	1467	1	BI 0256	1203 Glenoaks Blvd	482-C6	Glenoaks Blvd	Hagar St	nw	N/A	1929002.04917164	6431433.76095365	3.5	6	Not accesible	N/A	N/A	N/A	12	5	No	Curb opening	300-2	0	No	No
CITY	1467	11	BI 0256	803 N Glenoaks Blvd	482-C6	Glenoaks Blvd	Newton St	ne	N/A	1927983.05035596	6432325.25587881	3.5	7	30	3.50	N/A	N/A	18	6	No	Curb openina	300-2	0	No	No
CITY	1467	13	BI 0256	703 Glenoaks Blvd	482-C6	Glenoaks Blvd	Griswold Ave	ne	N/A	1927743.39360538	6432533.48786764	10	7	41	4.00	N/A	N/A	18	6	No	Curb opening	300-2	0	No	No
CITY	1467	14	BI 0256	704 Glenoaks Blvd	482-C6	Glenoaks Blvd	Griswold Ave	sw	N/A	1927693.51092064	6432489.71611875	7	7	41	4.00	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	No	No
CITY	1467	24	BI 0256	1127 Glenoaks Blvd	482-C6	Glenoaks Blvd	Hagar St	se	N/A	1928920.91285767	6431503.74651152	3.5	6	30	3.50	N/A	N/A	Not visible	4	No	Curb opening	300-2	0	No	No
CITY	1467	34	BI 0256	1227 Glenoaks Blvd	482-B6	Alexander St	Glenoaks Blvd	se	N/A	1929243.6172199	6431267.14469871	10	7	50	4.75	N/A	N/A	18	6	No	Curb opening	300-2	0	No	No
CITY	1467	87	BI 0256	800 N Maclay Ave	482-C6	Glenoaks Blvd	Maclay Ave	se	N/A	1928620.50385793	6431765.70859143	7	7	35	3.50	N/A	N/A	Not visible	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1422	72	BI 0572	333 N Hubbard Ave	482-A6	4th St	Hubbard St	sw	ARS UNIT INSTALLED	1929788.18224932	6427121.4088075	28	9	39	4.00	N/A	N/A	21	2	No	Curb opening	300-2	0	Yes	No
COUNTY	1422	73	BI 0572	2101 4th St	482-A6	4th St	Hubbard St	nw	ARS UNIT INSTALLED	1929820.83102196	6427145.42652211	28	9	51	5.00	N/A	N/A	24	6	No	Curb opening	300-2	0	Yes	No
COUNTY	1422	77	BI 0256	1413 Glenoaks Blvd	482-B6	Harding Ave	Glenoaks Blvd	se	N/A	1929688.62215404	6430869.31422977	21	9	63	6.00	24	2	33	6	Yes	Curb opening	300-2	0	No	No
COUNTY	1422	82	BI 0256	1500 Glenoaks Blvd	482-B6	Glenoaks Blvd	Harding Ave	sw	N/A	1929698.19412273	6430747.75883704	21	9	57	5.50	N/A	N/A	21	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1422	83	BI 0256	1500 Glenoaks Blvd	482-B6	Glenoaks Blvd	Harding Ave	sw	N/A	1929725.87772025	6430723.6679617	14	9	51	5.00	N/A	N/A	18	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1422	84	BI 0256	1823 Glenoaks Blvd	482-B5	Orange Grove Ave	e Glenoaks Blvd	se	N/A	1930682.57476364	6429996.27828789	21	8	40	4.00	33	2	33	5	No	Curb opening	300-2	0	No	No
COUNTY	1422	87	BI 0256	213 Glenoaks Blvd	482-B5	Glenoaks Blvd	Orange Grove Ave	ne	N/A	1930728.55427021	6429928.58382732	3.5	10	29	3.25	N/A	N/A	18	4	No	Curb opening	300-2	0	No	No
COUNTY	1422	88	BI 0256	1900 Glenoaks Blvd	482-B5	Glenoaks Blvd	Orange Grove Ave	sw	N/A	1930691.90477176	6429882.01691428	7	9	36	3.75	N/A	N/A	18	3	No	Curb opening	300-2	0	No	No
COUNTY	1422	89	BI 0256	1900 Glenoaks Blvd	482-B5	Glenoaks Blvd	Orange Grove Ave	sw	N/A	1930735.3404054	6429842.73150881	15	9	30	3.25	N/A	N/A	21	4	No	Curb opening	300-2	0	No	No
COUNTY	1422	90	BI 0256	2070 Glenoaks Blvd	482-B5	Glenoaks Blvd	Hubbard St	s	N/A	1931464.54743426	6429162.49912333	21	10	47	4.75	N/A	N/A	24	3	Yes	Curb opening	300-2	0	No	No
COUNTY	1422	91	BI 0256	2055 Glenoaks Blvd	482-B5	Glenoaks Blvd	Hubbard St	n	N/A	1931491.17900163	6429213.39778799	21	10	47	4.75	N/A	N/A	24	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	20	BI 0572	1500 1st St	482-A7	1st St	Harding Ave	sw	N/A	1927140.5237124	6427845.28061636	28	7	59	5.50	N/A	N/A	21	3	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	21	BI 0572	101 Harding Ave	482-A7	1st St	Harding Ave	ne	N/A	1927176.36123273	6427877.08475363	28	8	58	5.50	N/A	N/A	21	6	Yes	Ourb opening	300-2	0	No	No
COUNTY	1423	23	BI 0572	1409 1st St	482-A7	1st St	Harps St	ne	N/A	1926930.37978972	6428088.2639537	3.5	12	24	3.00	N/A	N/A	15	5	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	24	BI 0572	1409 1st St	482-A7	Harps St	1st St	nw	N/A	1926931.24329844	6428110.09893373	7	9	27	3.00	N/A	N/A	15	3	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	25	BI 0572	1409 1st St	482-A7	Harps St	1st St	se	N/A	1926903.78109166	6428130.56527787	7	7	38	3.75	N/A	N/A	15	7	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	26	BI 7001	1321 1st St	482-A7	1st St	Alexander St	ne	N/A	1926711.03076233	6428280.41203237	3.5	12	24	3.00	N/A	N/A	15	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	27	BI 7001	1321 1st St	482-A7	Alexander St	1st St	nw	N/A	1926709.00325574	6428308.08884396	10	11	40	4.25	24	4	18	2	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	32	BI 7001	100 N Hagar St	482-A7	Hagar St	1st St	se	N/A	1926409.14836903	6428573.09695511	10	11	49	5.00	18	4	18	7	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	35	BI 7001	77 N Maclay Ave	482-B7	1st St	Maclay Ave	sw	N/A	1926171.84060815	6428674.37431304	3.5	10	38	4.00	N/A	N/A	18	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	41	BI 7001	120 N Macneil St	482-B7	Macniel St	1st St	se	N/A	1925865.71340787	6429048.4249988	3.5	11	58	5.75	18	4	18	6	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	42	BI 7001	900 1st St	482-B7	1st St	Brand Blvd	sw	N/A	1925593.20197429	6429181.6856848	3.5	8	34	3.50	N/A	N/A	18	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	45	BI 7001	130 N Brand Blvd	482-B7	Brand Blvd	1st St	se	N/A	1925547.09205076	6429260.43526238	21	10	35	3.75	N/A	N/A	18	6	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	50	BI 0572	400 N Maclay Ave	482-B7	Maclay Ave	4th St	se	N/A	1926944.27015024	6429751.13278578	21	8	64	6.00	N/A	N/A	18	5	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	51	BI 0572	403 N Maclay Ave	482-B7	Maclay Ave	4th St	nw	N/A	1926996.81588568	6429712.08340321	14	8	40	4.00	N/A	N/A	18	2	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	53	BI 0572	1102 4th St	482-B7	4th St	Maclay Ave	nw	N/A	1926990.3156075	6429674.14118642	3.5	12	24	3.00	N/A	N/A	18	4	Yes	Curb opening	300-2	0	No	No
COUNTY	1423	56	BI 0572	403 N Alexander St	48Z-B7	Alexander St	4th St	se	N/A	1927494.37758237	6429268.61823744	7	12	36	4.00	N/A	N/A	18	6	No	Curb opening	300-2	0	No	No
COUNTY	1423	61		143 Harding Ave		2nd St	Harding Ave	sw	N/A	1927483.77733427	6428230.53698181	14	10	38	4.00	N/A	N/A	18	1	No	Curb opening Curb	300-2	0	No	No
COUNTY	1423	63		203 Harding Ave		Harding Ave	2nd St	nw	N/A	1927501.75578935	6428300.8603514	7	10	38	4.00	N/A	N/A	15	4	No	opening Curb	300-2	0	No	No
COUNTY	1423	64		202 Harding Ave		Harding Ave	2nd St	se	N/A	1927405.36281164	6428257.32823043	3.5	10	26	3.00	N/A	N/A	15	4	No	opening Curb	300-2	0	No	No
COUNTY	1423	65		302 Harding Ave		Harding Ave	3rd St	se	N/A	1927675.93389533	6428566.68256126	3.5	10	30	3.33	N/A	N/A	15	4	No	opening Curb	300-2	0	No	No
COUNTY	1423	67		400 Harding Ave		Harding Ave	4th St	se	N/A	1927944.28873894	6428873.73985712	3.5	9	27	3.00	N/A	N/A	15	4	No	opening Curb	300-2	0	No	No
COUNTY	1423	68	BI 0572	1503 4th St	482-B6	Harding Ave	4th St	nw	N/A	1927977.94967443	6428846.10460931	3.5	9	33	3.50	N/A	N/A	15	4	No	opening	300-2	0	No	No

### CITY OF SAN FERNANDO CATCH BASIN INVENTORY SPREADSHEET

OWNED	CATCH BASIN ID	NO	DRAINS TO	ADDRESS	TC	STREET	NEAREST CROSS STREET	LOCATION OF CORNER	NEW DATA	GPS (NORTHING)	GPS (EASTING)	BASIN WIDTH	CURB OPENING HEIGHT [X] (IN)	FL TO OUTLET FL [Y]	V DIM [X+Y]		E INLET PIPE	OUTLET PIPE SIZE (IN)	OUTLET PIPE LOCATION	COMMERCIAL TYPE OR INDUSTRIAL CATO AREA BASI	H PLAN	NUMBER OF	R ARS UNITS INSTALLED	
COUNTY	1423	NO. 72	BI 0572		<b>T.G.</b> 182-B6	Harding Ave	Library St	Se	N/A	1928378.07802658	6429370.42850241	(FT) [W] 3.5	9	(IN) 39	<b>(FT)</b> 4.00	N/A	N/A	15	4	No Curl	300-2	0	No	No
COUNTY	1423	74	BI 0572	1501 Library St 4	182-B6	Library St	Harding Ave	ne	N/A	1928413.92127253	6429305.09914811	7	7	35	3.50	N/A	N/A	15	6	No Openi Openi	300-2	0	No	No
COUNTY	1423	75	BI 0572	457 Harding Ave 4	182-B6	Library St	Harding Ave	SW	N/A	1928387.15059374	6429275.33375661	21	7	41	4.00	N/A	N/A	18	2	No Curl	300-2	0	No	No
COUNTY	1423	76	BI 0572	1500 5th St 4	182-B6	5th St	Harding Ave	sw	N/A	1928819.62850173	6429771.05858874	28	9	75	7.00	24	6	30	1	No Curl	300-2	0	No	No
COUNTY	1423	78	BI 0572	1503 5th St 4	182-B6	5th St	Harding Ave	ne	N/A	1928848.68836929	6429805.18054289	28	9	75	7.00	24	2	30	5	No Curl openi	300-2	0	No	No
COUNTY	1423	93	BI 0572	100 N Hubbard Ave	182-A6	Hubbard Ave	1st St	se	N/A	1928851.7106498	6426419.22629339	3.5	9	27	3.00	N/A	N/A	15	4	Yes Curl	300-2	0	No	No
COUNTY	1423	98	BI 0732	1825 1st St 4	182-A6	Orange Grove Ave	1st St	se	N/A	1928134.53230587	6427082.27587326	21	12	60	6.00	N/A	N/A	21	4	Yes Curl	300-2	0	No	No
COUNTY	1423	99	BI 0732	1803 1st St 4	182-A6	1st St	Huntington St	ne	N/A	1927917.56853046	6427227.95119356	2.75	10	23	2.75	N/A	N/A	18	4	Yes Curl openi	300-2	0	No	No
COUNTY	1423	100	BI 0732		182-A6	Huntington St	1st St	nw	N/A	1927916.02197616	6427270.97521853	7	12	69	6.75	18	4	18	2	Yes Curl openi	1 300-2	0	No	No
COUNTY	1423	163	BI 7050 (F1730)	Ave	502-A1	Omelveny Ave	Carlisle St	sw	N/A	1923501.24395457	6426628.11927353	10	10	32	3.50	N/A	N/A	18	3	No Curl openi	300-2	0	No	No
COUNTY	1423	164	BI 7050 (F1730)	Biva	502-A1	Brand Blvd	Omelveny Ave	nw	N/A	1923454.84541725	6426777.90431853	21	8	34	3.50	N/A	N/A	18	4	No Curl openi	300-2	0	No	No
COUNTY	1423	165	BI 7050 (F1730)	Biva	502-A1	Brand Blvd	Omelveny Ave	nw	N/A	1923489.58701099	6426815.29008964	14	8	34	3.50	N/A	N/A	18	4	No Curl openi	300-2	0	No	No
COUNTY	1423	166	BI 7050 (F1730)	Ave	502-A1	Omelveny Ave	Carlisle St	ne	N/A	1923574.26260802	6426618.99793255	3.5	9	30	3.25	N/A	N/A	18	6	No Curl openi	1 300-2	0	No	No
COUNTY	1423	167	BI 7050 (F1730)	1002 Woodworth St	502-A1	Woodworth St	Carlisle St	sw	N/A	1923717.85804288	6426783.90243839	7	10	56	5.50	18	5	18	2	No Curl openi	1 300-2	0	No	No
COUNTY	1423	171	BI 7050 (F1730)	1002 Mott St 5	502-A1	Mott St	Carlisle St	sw	N/A	1923887.59794307	6426979.80376871	7	10	62	6.00	18	4	18	1	No Curl openi		0	No	No
COUNTY	1423	173	BI 7050 (F1730)	1000 Kewen St 5	502-A1	Kewen St	Carlisle St	sw	N/A	1924228.62408569	6427370.42864759	7	10	56	5.50	18	4	18	1	No Curl openi	ng 300-2	0	No	No
COUNTY	1423	175	BI 7050 (F1730)	1000 Hewitt St 5	502-A1	Hewitt St	Carlisle St	SW	N/A	1924399.37784521	6427567.30778702	10	10	38	4.00	18	5	18	1	No Curl openi	ng 300-2	0	No	No
COUNTY	1423	178	BI 7050 (F1730)	1001 Hollister St 5	502-A1	Hollister St	Carlisle St	ne	N/A	1924620.32580574	6427778.55208954	3.5	10	32	3.50	N/A	N/A	18	5	Yes Curl	ng 300-2	0	No	No
COUNTY	1423	181	BI 7050 (F1730)		82-A7	Pico St	Carlisle St	SW	N/A	1924908.64483519	6428158.49804601	3.5	10	29	3.25	N/A	N/A	18	2	Yes Curl	300-2	0	No	No
COUNTY	1423	182	BI 7050 (F1730)	317 S Brand Blvd 5	502-A1	Pico St	Carlisle St	ne	N/A	1924952.23187973	6428179.67139852	7	10	32	3.50	N/A	N/A	18	4	Yes Curl	300-2	0	No	No
COUNTY	1423	197	BI 7001	219 Jessie St 5	502-B1	Jessie St	Robert F Kennedy Dr	se	N/A	1924805.6665432	6429796.33806093	14	12	36	4.00	N/A	N/A	18	6	Yes Curl	300-2	0	No	No
COUNTY	1423	198	BI 7001		502-B1	Jessie St	Robert F Kennedy Dr	nw	N/A	1924812.38418297	6429737.98908886	14	12	30	3.50	N/A	N/A	18	3	Yes Curl	300-2	0	No	No
COUNTY	1423	206	BI 0572	AVE 535 Pobort F	182-A6	Hubbard Ave Robert F Kennedy	2nd St	se	N/A	1929238.61557043	6426784.50214435	3.5	10	26	3.00	N/A	N/A	15	4	No Curl openi Curl	3	0	No	No
COUNTY	1423	208	BI 7001	Kennedy Dr 5	502-B1	Dr	Park Ave	SW	N/A	1923941.67878155	6430434.15609421	3.5	12	24	3.00	N/A	N/A	18	4	Yes openi	ng 300-2	0	No	No
COUNTY	1423	210	BI 0572	Fernando Rd	181-J6	Hubbard Ave	San Fernando Rd	se	N/A	1928433.59281544	6425943.99155612	N/A	N/A	36	3.00	N/A	N/A	Not visible	4	Yes Gratii	g 303-3	1	No	No
COUNTY	1466	40	MTD 0569	Ave 4	182-C6	Maclay Ave	7th St	ne	N/A	1929545.69279994	6432724.80848779	14	8	34	3.50	N/A	N/A	18	5	res openi	ng 300-2	0	No	No
COUNTY	1466	41	MTD 0569	Ave Ave	182-C6	Maclay Ave	7th St	nw	N/A	1929596.13447508	6432695.12643592	14	7	35	3.50	N/A	N/A	18	3	openi Curl	ng 300-2	0	No	No
COUNTY	1466	42	MTD 0569	Ave Ave	182-C6	7th St	Maclay Ave	nw	N/A	1929602.74035919	6432644.47482128	3.5	7	41	4.00	N/A	N/A	18	5	yes openi	ng 300-2	0	No	No
COUNTY	1467	4	MTD 0569	Ave Ave	182-C6	Maclay Ave	Lucas St	nw	N/A	1929159.27031603	6432190.12100567	14	7	41	4.00	N/A	N/A	18	4	openi Curl	ng 300-2	0	No	No
COUNTY	1467	5	MTD 0569	Ave Ave	182-C6	Maclay Ave	Lucas St	se	N/A	1929116.44541548	6432236.06446201	14	8	34	3.50	N/A	N/A	18	4	openi Curl	ng 300-2	0	No	No
COUNTY	1467	6	BI 0256	Ave Ave	182-C6	Maclay Ave	Glenoaks Blvd	nw	N/A	1928766.82023591	6431739.01064925	14	8	52	5.00	N/A	N/A	18	3	yes openi Curl	ng 300-2	0	No	No
COUNTY	1467	7	BI 0256	Ave 4	182-C6	Maclay Ave	Glenoaks Blvd	se	N/A	1928695.03386368	6431754.31163354	14	8	40	4.00	N/A	N/A	24	7	yes openi Curl	ng 300-2	0	No	No
COUNTY	1467	9	BI 0256	Blvd 4	182-C6	Brand Blvd	Glenoaks Blvd	se	N/A	1928197.97814238	6432165.52712376	7	9	57	5.50	18	2	24	7	openi Curl	ng 300-2	0	No	No
COUNTY	1467	17	BI 0256	Blvd 4	182-C7	Glenoaks Blvd	Jessie St	SW	N/A	1927327.94900061	6432814.00075284	15	7	53	5.00	6	8	18	7	Yes openi	300-2	0	No	No

# APPENDIX C LA COUNTY PERMIT REQUIREMENTS

# Attachment A (cont.) Connector Pipe Screen (CPS) Requirements

CPS units prevent trash and debris from entering the storm drain system during dry weather and moderate storm flows by keeping the trash and debris inside the CB.

CPS units shall be designed to retain all trash larger than 5 mm (0.197 inch) in the CB, and shall comply with the following items:

- **1.** CPS units shall be sized, fabricated, and installed conforming to the configurations shown in Appendices: A-1, A-2, A-3, A-4, B-1, and B-2.
- 2. CPS units shall not interfere with the operation of an existing or proposed ARS.
- **3.** CPS units shall have a sufficient structural integrity to withstand a lateral force of standing water (62.4 lb/ft<sup>3</sup>) within the CB area when the screen becomes 100% clogged. CPS units shall be bolted to the CB walls.
- **4.** CPS units shall be configured with deflector plates or screens preventing trash from falling between the screen and connector pipe. The deflector plate shall be designed to withstand a vertical load of 10 lbs per square foot.
- **5.** The gap at the bottom, sides, and joints of CPS units shall not exceed 5 mm (0.197 inch).
- **6.** The perimeter of CPS units shall include a structural frame for stiffness, a bolting surface for fastening to the CB wall, and support for the opening referred to as the "bypass ( $H_b$ )" (see Appendix A-1).
- **7.** All CPS parts/components must be sized to fit through the catch basin's (CB's) manhole opening and/or CB curb opening.
- **8.** When CPS units encroach more than 4 inches into the manhole opening, the Contractor shall install a Removable CPS. The Removable CPS shall be designed and installed with a removable panel allowing access into the CB. The removable panel shall be easily disengaged from the rest of CPS assembly upon entry or from the outside of the CB. The Contractor shall submit shop drawings for review and approval of the Agency. It is the responsibility of the Contractor to field verify all submitted CB locations, dimensions, configurations, and operational conditions.
- **9.** The CPS frame shall be fabricated from S-304 stainless steel, or an Agency approved equal stainless steel alloy. The Structural members shall have a minimum thickness of 3/16 inches.
- **10.** The CPS screen shall be fabricated from perforated metal of Type S-304 stainless steel, or an Agency approved equal stainless steel alloy. The screen shall have a minimum thickness of fourteen (14) gauge (0.0781 inch) The geometrical opening shape shall have a diameter of 5 mm (0.197 inch).

### Attachment A (cont.)

- **11.** The screen material used shall have at least 45% open area.
- **12.** Any edge of the CPS that is not flush with the wall or floor of the CB shall be smooth with no prongs or jagged edges.
- **13.** The assembly bolts, screws, nuts, and washers shall be fabricated entirely from S-316 stainless steel. The concrete anchor bolts shall use a Red Head Multi-Set II drop-in anchor, SSRM-38, with Type S-316 stainless steel threaded rods, nuts and washers, or Agency approved equal.

**Preliminary Measurements.** The Contractor shall make detailed measurements of each CB's location, dimension, configuration, and operational condition, including the size and location of the connector pipe, for the proper fabrication of the devices. The Contractor shall submit written records of this information to the District for review and approval prior to fabrication of the CPS units. Improper fabrication of devices due to errors in the measurements shall be corrected at the Contractor's expense.

Cleaning of Existing Catch Basins. The Contractor shall furnish all materials, equipment, tools and labor to cleanout (i.e. remove and dispose of all debris from within and around) all CBs in which CPS units will be installed under this Contract to the maintenance standards specified. Cleanout shall also include the CB connector pipe openings and the first 6 feet thereof. The CB shall be clean at the time of the CPS installation. Any trash and debris that accumulates between the dates the CB is cleaned and the date the device is installed shall be removed prior to installation of the device at the Contractor's expense.

**Maintenance Conditions and Maintenance Standards.** Following are deficiencies in maintenance conditions and their corresponding maintenance standards which shall apply to this Contract. The cleanout of each CB shall meet the maintenance standards listed as follows:

	Description of Maintenance Condition Deficiency	Description of Maintenance Standard
1.	Trash and debris located immediately in front of curb opening or side opening of CB, and on top or between metal grates of grated CB.	No trash and debris located immediately in front of CB opening, and on top or between metal grates.
2.	Vegetation growing across and/or blocking the basin opening.	No vegetation blocking CB opening.
3.	Trash and debris in the CB.	No trash and debris within the CB.
4.	Trash and debris in the connector pipe opening, upstream or downstream.	No trash and debris in connector pipe opening and/or in the connector pipe for a distance of 6 feet from the opening.

### Attachment A (cont.)

Trash and debris shall include, but is not limited to, mud, vegetation, and garbage. Upon completion of a cleanout operation at a CB and before leaving it, the Contractor shall sweep the top surface of the CB and the area 2 feet around the CB, and shall remove any trash and debris resulting from the cleanout operations. No debris is to be left at a CB for future pick-up.

**Method of Removal.** All trash and debris required to be removed from the CBs shall be removed in a manner to be determined by the Contractor. The Contractor shall not allow any trash or debris to enter the connector pipe or main line as a result of the cleanout operations.

**Debris Disposal.** All trash and debris removed under this Contract shall become the property of the Contractor and shall be legally disposed of away from the CB sites. The Contractor is responsible for proper disposal of the trash and debris, including obtaining approvals from all jurisdictional agencies, as applicable. The contractor shall be responsible for contacting and coordinating with LA County Animal Care and Control for pickup and disposal of dead animals. However, the Contractor shall be responsible for removing any dead animal from inside a CB. A list of local Animal Care and Control offices may be obtained at:

http://animalcare.lacounty.gov/wps/portal/acc/aboutus/care\_centers.

**Staff Gauge.** The contractor shall paint a staff gauge per Appendix A-2. The staff gauge shall be located such that it is visible through the CB curb opening or grating.

# Attachment B Field Testing of ARS Units

**Onsite Test.** Each unit shall be manually operated upon completion of the installation to ensure that the screen and all moving parts move freely and the screen locks securely in the closed position. Units that are determined by Public Works to be malfunctioning shall be repaired or replaced at the sole expense of the Contractor.

All of the catch basins (CBs) in which ARS units were installed will be tested using water supplied from a fire hydrant or water truck. The Contractor shall be responsible for providing the source of water, including written approval from the water agency if a hydrant is used. Sufficient water shall be provided to cause the ARS units to open with no other assistance as follows:

### Flowing Water Test

- 1. Sandbags shall be placed around the catch basin's (CB's) curb opening to allow the water to pond in front of the catch basin (CB) to a depth of 3 inches, measured from the flow line of the CB curb opening local depression. The sandbags shall be located 5 feet upstream and downstream of the end of the local depression. Sandbags shall also be placed 7 feet from and parallel to the CB curb face.
- 2. An impermeable rigid membrane/barrier shall be placed covering the CB curb opening to allow the water to pond in front of the CB. The membrane/barrier shall be capable of sealing the CB curb opening without leakage so that the water ponds to the depth required.
- 3. Once the water reaches the depth described herein, the impermeable membrane shall be removed in one quick and continuous motion to allow the ponded water to instantaneously enter the CB and cause the ARS unit to open. A continuous flow of water shall be provided for at least two minutes after the initial opening of the ARS unit in sufficient quantity to maintain the device open. At the end of the two minutes, the flow of the water shall be stopped and the device shall fully close automatically prior to or immediately after the flow into the CB stops.
- **4.** This process shall be successfully completed at least two consecutive times without adjustments and/or calibration between trials.
- **5.** Any ARS unit that do not open, close, and lock closed automatically under the test conditions, described herein, shall be repaired or replaced at the sole expense of the Contractor and retested. This process shall be repeated until the failed device passes the test at the sole expense of the Contractor.

### ATTACHMENT C

- 1. A minimum of five (5) working days Notice to the District's designated representative prior to Preconstruction Meeting. A Preconstruction meeting is required before commencement of the Work authorized under this Permit.
- 2. The Permittee shall provide a Construction Schedule to District's field representative before starting work on this Permit. The schedule shall indicate the Catch Basins (CBs) that the Permittee will complete each week, identified by the assigned Identification Number listed in the attached "LOS ANGELES COUNTY FLOOD CONTROL DISTRICT CATCH BASIN IDENTIFICATION LIST". Also, Permittee shall submit to the District's designated representative a paper copy of the updated Construction Schedule on the first working day of each month.
- 3. County will be administering the Catch Basin (CB) Cleanout contracts within the City that may take place concurrent with City's Project. Work on District's CBs, under County Contract, shall have priority and/or testing be completed without interruption.
- **4.** Permittee shall coordinate with the District's designated representative to schedule inspection for selected CBs. The District designated representative will select the CBs to be inspected and/or tested.
- 5. Permittee shall be responsible for enforcing Section 7-10 PUBLIC CONVENIENCE AND SAFETY of the GREENBOOK, (e.g. Traffic and Access, Safety, Confined Spaces etc.). The inspection provided by the District shall not be construed as a Safety Inspection.
- **6.** Upon Completion of the installations and testing, Permittee shall produce Inspection Records for each CB.
- 7. Any damage resulting from the Permittee's operations shall be restored and/or repaired at Permittee's expense and to the satisfaction of the District's field representative.
- 8. When removing and reinstalling the CB manhole covers, the Permittee shall grease all CB manhole cover screws with a high temperature thread lubricant and seal grease (Jet-Cube by Koper-Kote or equal). Unusable, damaged, and/or missing screws or bolts shall be replaced with new ones meeting the requirements specified in applicable Standard Plans as directed by the District's field representative. If the CB manhole cover screws are frozen (e.g. rusted in place), the Contractor shall remove the frozen cover screws. If during their removal the manhole covers or screws should become damaged, it shall be the Contractor's responsibility to replace them in accordance with the applicable standard plan and to re-drill and tap new holes, if necessary.
- **9.** Permittee shall be responsible for collecting the retaining trash and debris within the street by street sweeping and other equipment.

### ATTACHMENT C (cont.)

- **10.** Permittee shall furnish eight (8) copies of a Technical Manual for ARS and CPS Units and eight (8) electronic copies on CD-Rom in Portable Document Format (PDF). The Technical Manual shall be submitted prior to field acceptance of the permitted work. Each manual shall, at minimum, include the following:
  - a. Title Sheet.
  - **b.** Table of Contents.
  - **c.** Manufacturer, supplier, spare parts, and servicing location information including name, address, phone number of the manufacturer and local representative.
  - **d.** Recommended installation, adjustment, calibration and troubleshooting procedures.
  - e. Lubrication recommended if applicable.
  - f. Recommended preventive maintenance and maintenance procedure.
  - **g.** Complete parts list, by generic title and identification number, with isometric views and schematics of each assembly.
  - **h.** Recommended spare parts list and list of special tools and equipment required for O&M.
  - i. Disassembly, overhaul, reassembly, and realignment instructions.
  - **j.** A discussion of the warranty and how to obtain warranty service.
- 11. ARS and CPS units shall be covered by a three (3) year manufacturer's warranty starting on the date of acceptance of the work authorized under this Permit by the District. The warranty shall cover the units against corrosion, excessive wearing of moving parts, and operational malfunction. The manufacturer shall provide, at no cost to the District, all labor, material, and equipment required to repair or replace the units during the warranty period, including but not limited to calibration and adjustment of moving parts to ensure the units operate properly.
- 12. Detailed shop drawings for the ARS and CPS units shall be submitted to the District. No ARS and/or CPS unit fabrication shall start until the shop drawings are approved by the District. The Shop Drawings must clearly describe the details and mechanical operation of the ARS and CPS Units, and, at a minimum, must contain:

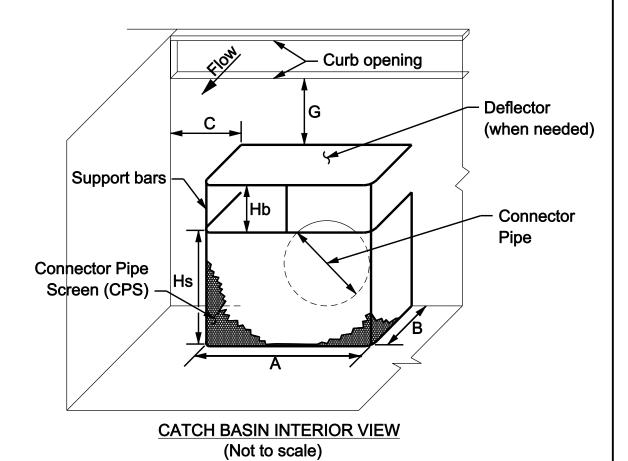
### ATTACHMENT C (cont.)

- a. Drawings descriptions and details of the units.
- **b.** Materials used.
- c. Connection details.
- **d.** Assembly details.
- **e.** Mounting details.
- f. Dimensions of all parts.
- **g.** Any other information needed to manufacture, install, and use the units.
- **h.** Correct title of the City Project.
- i. Names of the City and Permit Number(s).
- **13.** Upon completion of the contract, the City must submit an as-built spreadsheet, for each permit, containing the following data:
  - **a.** County approved ARS and/or CPS manufacturer name and contact information.
  - **b.** ARS and/or CPS name and model.
  - c. For each CB:
    - i. City CB No.
    - ii. County CB No.
    - iii. County Drain Name.
    - iv. Street Name.
    - v. Nearest cross street.
    - vi. Thomas Guide page and grid.
    - vii. GPS coordinates.
    - viii. CB type (SPPWC Std. Plan No.).
    - ix. W dimension.
    - **x.** Grate dimension and quantity.
    - **xi.** V dimension.
    - **xii.** Curb face height.
    - **xiii.** Listing of ARS units installed and/or not installed.
    - **xiv.** Listing of CPS units installed and/or not installed.

### ATTACHMENT C (cont.)

- **14.** No ARS units shall be installed in any CB in a sump. Any location where CB is found to be in a sump, in a cul-de-sac, or with flow entering the basin from two opposing directions, must be removed from the project.
- **15.** ARS and CPS units must be regularly inspected and serviced. Additionally, to ensure the effectiveness of CPS units, CBs must be cleaned when the trash/debris level is at the 40% mark, as shown on Appendix A-2: Staff Gauge and as stenciled on the CB wall.

### **APPENDIX A-1: CPS CONFIGURATION**

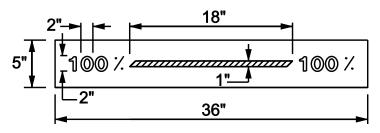


CPS Length	L = A + 2B
CPS Height	Hs
Bypass Height	Hb
Minimum Wall Clearance	C = 4 inches
Minimum Interior Spacing	B = 10 inches
Minimum Distance from Street Flow Line	G

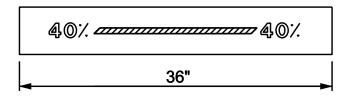
### **NOTES**

- 1. The CPS shown above is for illustrative purposes only. The catch basin connector pipe location and the shape and design of the CPS may deviate from the above example.
- 2. For L, Hs, Hb, and G values see attached CPS sizing Table 1.

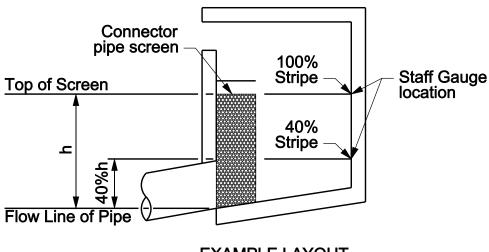
### **APPENDIX A-2: STAFF GAUGE**



100% STRIPE (Red Stripe and Numbers on White Background)



40% STRIPE (Red Stripe and Numbers on White Background)



### **EXAMPLE LAYOUT**

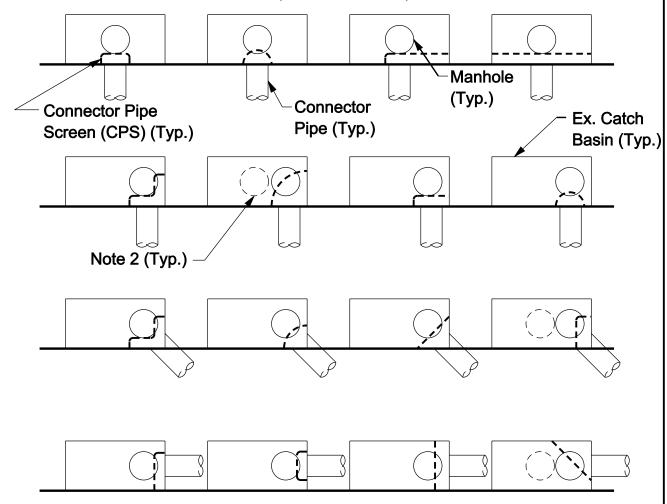
### "THE PAINT TYPE AND SPECIFICATIONS MUST BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL PRIOR TO USE."

- 1. The Contractor shall paint a staff gauge as shown on an externally visible interior wall of each catch basin.
- 2. The Contractor shall paint red stripes and numbers on white background labeling 40% and 100% screen height as shown above.
- 3. Surfaces must be clean, dry and free from all contaminants including rust that may impair adhesion.

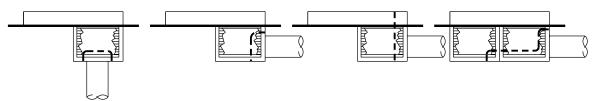
Revised 07/21/2010

### APPENDIX A-3: EXAMPLE CPS LAYOUTS

### **CURB OPENING CATCH BASINS (TYPES 300, 306)**



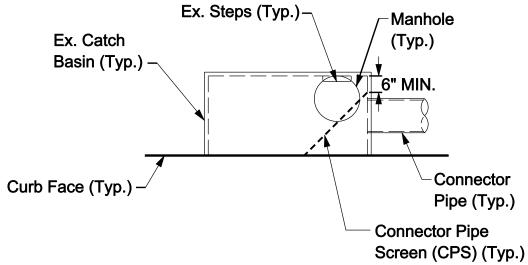
### **CURB OPENING CATCH BASINS WITH GRATES (TYPES 301, 302)**



- NOTES: 1. The CPS configurations shown above are for illustrative purposes only. This is not a comprehensive list.
  - 2. When the CPS unit enchoaches more than 4 iches into the manhole opening, the Contractor shall install a Removable CPS unit per Attachment A, CPS Requirements, item 8.

### APPENDIX A-3: EXAMPLE CPS LAYOUTS (CONT.)

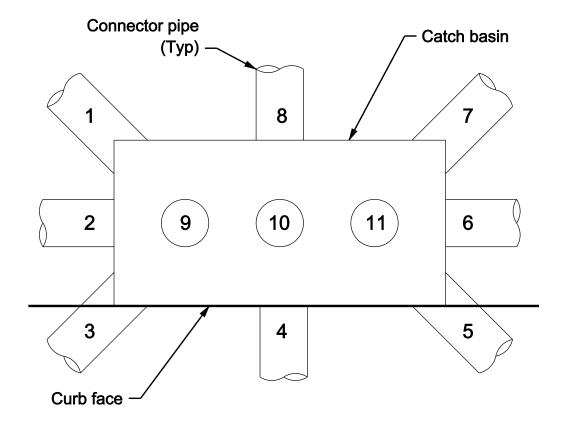
### **CURB OPENING CATCH BASINS (TYPES 300)**



### NOTES:

- 1. The CPS configurations shown above are for illustrative purposes only. This is not a comprehensive list.
- 2. The CPS unit shall not enchroach more than 4 inches into the manhole opening.

### APPENDIX A-4: CONNECTOR PIPE LOCATION KEY



### **NOTE**

1. This illustration shall be used to identify the location of a catch basin's connector pipe. The number chosen shall be that which most nearly represents the actual location of the connector pipe.

# APPENDIX B-1: CPS SIZING TABLE FOR NON-SUMP CONDITIONS TABLE 1

Catch Basin Type	V-Depth (ft)	CB Width (ft)	No. Grates	MINIMUM Bypass Height H <sub>b</sub> (in)	Screen Height H <sub>s</sub> (in)	MINIMUM Screen Length L (ft)	G (in)
		3.5				3.0	
	2.5	7		8	8	4.0	4
	(30 inch)	10	] -	0	0	6.0	4
		14				7.0	
		3.5				3.0	
	2.67	7	] _	8	10	4.0	4
	(32 inch)	10		0	10	6.0	4
		14				7.0	
		3.5				3.0	
	2.02	7				4.0	
	2.83 (34 inch)	10	-	8	12	6.0	4
	(0 1 111011)	14				6.0	
		21				7.0	
		3.5				3.0	
		7		8	12	4.0	6
	3.0	10				6.0	
	(36 inch)	14	] -			6.0	
		21		8	14	7.0	4
300		28				8.0	
		3.5				3.0	
		7		8	18	4.0	
	3.5	10		0	10	6.0	6
	(42 inch)	14	] -			6.0	0
		21		10	16	7.0	
		28		10	10	8.0	
		3.5				3.0	
		7				4.0	
	4.0	10		10	20	6.0	6
	(48 inch)	14	1 -	12	20	6.0	6
		21				7.0	
		28				8.0	
		3.5				3.0	
		7	7			4.0	
	4.5	10	1	40	2.4	6.0	\ <u>\</u> 0
	(54 inch) or greater	14	1 -	12	24	6.0	≥8
	or groater	21	1			7.0	
		28	1			8.0	

<sup>\*</sup> for CBs with v-depth less than given value above, contact the District for Hb, Hs, L, and G values.

Revised 9/23/15

# APPENDIX B-1: CPS SIZING TABLE FOR NON-SUMP CONDITIONS TABLE 1

Catch Basin Type	V-Depth (ft)	CB Width (ft)	No. Grates	MINIMUM Bypass Height H <sub>b</sub> (in)	Screen Height H <sub>s</sub> (in)	MINIMUM Screen Length L (ft)	G (in)
		7	1			4.0	
	3.0	10	2	8	10	5.0	10
	(36 inch)	14	1	0	10	4.0	10
		14	2			5.0	
		7	1			4.0	
	3.5	10	2	10	12	5.0	12
	(42 inch)	14	1	10	12	4.0	12
301		14	2			5.0	
301		7	1			4.0	
	4.0	10	2	12	15	5.0	13
	(48 inch)	14	1	12	15	4.0	13
		14	2			5.0	
		7	1			4.0	
	4.5	10	2	12	18	5.0	≥16
	(54 inch) or greater	14	1	12	10	4.0	≥10
	o. g. ca.c.	14	2	1		5.0	
		-	1			2.5	
	3.0 (36 inch)	-	2	9	9	4.0	10
	(30 111011)	-	3	1		5.0	
		-	1			2.5	
302	3.5 (42 inch)	-	2	10	12	4.0	12
	(42 111011)	-	3	1		5.0	
	4.0	-	1			2.5	
	(48 inch)	-	2	10	18	4.0	≥12
	or greater	-	3	1		5.0	
		-	1			2.5	
	3.0 (36 inch)	-	2	9	9	4.0	10
	(30 111011)	-	3			5.0	
		-	1			2.5	
	3.5 (42 inch)	-	2	10	12	4.0	12
202	(42 111011)	-	3			5.0	
303		-	1			2.5	
	4.0 (48 inch)	-	2	12	16	4.0	12
	(40 111011)	-	3			5.0	
	4.5	-	1			2.5	
	(54 inch)	-	2	12	22	4.0	≥12
	or greater	-	3			5.0	

<sup>\*</sup> for CBs with v-depth less than given value above, contact the District for Hb, Hs, L, and G values.

Revised 9/23/15

# APPENDIX B-2: CPS SIZING TABLE FOR SUMP CONDITIONS WITH NO ARS TABLE 2

Catch Basin Type	V-Depth (ft)	CB Width (ft)	No. Grates	MINIMUM Bypass Height H <sub>b</sub> (in)	Screen Height H <sub>s</sub> (in)	MINIMUM Screen Length L (ft)	G (in)
	2.5 (30 inch)	3.5	-	8	8	4.0	6
	2.67 (32 inch)	3.5	-	8	10	4.0	6
	2.83	3.5	-	9	11	3.0	6
	(34 inch)	7	-	9	11	5.5	0
	3.0	3.5	-	10	12	3.0	6
	(36 inch)	7	-	10	12	5.0	O
		3.5	-	12	16	3.0	6
	3.5	7	-	12	10	5.0	0
	(42 inch)	10	-	14	14	6.0	6
		14	-	14	14	7.0	0
		3.5	-			3.0	
		7	-	16	18	4.0	6
300	4.0	10	-	10	10	6.0	O
300	(48 inch)	14	-			6.0	
		21	-	18	16	7.0	6
		28	-	10	10	10.0	O
		3.5	-			3.0	
		7	-	16	18	4.0	12
	4.5	10	-	10	10	6.0	12
	(54 inch)	14	-			6.0	
		21	-	18	16	7.0	12
		28	-	10	10	8.0	12
		3.5	-			3.0	
		7	-	16	18	4.0	18
	5.0 (60 inch)	10	-	10	10	6.0	10
	or greater	14	-			6.0	
	-	21	-	18	16	7.0	18
		28	-	10	10	8.0	10

# APPENDIX B-2: CPS SIZING TABLE FOR SUMP CONDITIONS WITH NO ARS TABLE 2

Catch Basin Type	V-Depth (ft)	CB Width (ft)	No. Grates	MINIMUM Bypass Height H <sub>b</sub> (in)	Screen Height H <sub>s</sub> (in)	MINIMUM Screen Length L (ft)	G (in)
301	3.5 (42 inch)	7	1	14	10	4.0	7
	4.0 (48 inch)	7	1	16	12	6.0	9
		10	2			4.0	
	4.5 (54 inch)	7	1	18	14	6.0	9
		10	2			5.0	
		14	1			3.0	
		14	2			6.0	
	5.0 (60 inch) or greater	7	1	18	16	4.0	14
		10	2			6.0	
		14	1			5.0	
		14	2			6.0	
302	≤4.0 (48 inch)	-	1	NOT APPLICABLE			
	4.0 (48 inch)	-	2	14	8	2.5	18
		-	3			6.0	
	4.5 (54 inch) or greater	-	1	16	8	2.5	22
		-	2	16	10	5.0	20
		-	3			7.0	
	5.0 (60 inch) or greater	-	1	16	12	2.5	24
		-	2			5.0	
		-	3			7.0	
303	3.5 (42 inch)	-	1	13	8	2.5	13
		-	2			5.0	
	4.0 (48 inch)	-	1	13	11	2.5	16
		-	2			5.0	
		-	3			7.0	
	4.5 (54 inch) or greater	-	1	16	12	2.5	18
		-	2	14	14	5.0	
		-	3			7.0	

Revised 9/23/15