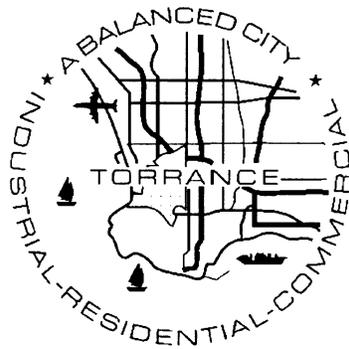


**PROJECT MANUAL FOR CHARLES H. WILSON PARK GAZEBO STRUCTURE
B 2016-43**



AUGUST 2016

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PART A
NOTICE INVITING BIDS

**CITY OF TORRANCE
CALIFORNIA**

NOTICE INVITING BIDS

Notice is hereby given that sealed proposals for performing the following described work will be received at the office of the City Clerk of the City of Torrance, California, until **3:00 p.m. on Wednesday, September 21, 2016** after which time they will be publicly opened and read at 3:15 p.m. in the Council Chambers of said City:

Bid for Charles H. Wilson Park Gazebo Structure

B2016-43

Plans, Bid Proposal (for reference only) and Specifications are available for viewing and printing from the City's website at <http://www.torranceca.gov/25079.htm>.

There will be a mandatory pre-bid conference held on Wednesday, August 31, 2016 at 10:00 a.m. commencing at Charles H. Wilson Park, 2200 Crenshaw Boulevard, Torrance, CA 90501 (meet in front of the main office). The City of Torrance will consider the bidder as non-responsive if the bidder does not attend the mandatory pre-bid conference. **Addenda will be issued only by email and only to those attended the mandatory pre-bid conference.** All addenda must be acknowledged. Failure to acknowledge addenda on the bid forms provided may render the proposal non-responsive and cause it to be rejected.

An official bid proposal packet, which includes: bid proposal forms, and a bound Specifications booklet may be obtained at the Office of the City Clerk (310) 618-2870, \$50 if picked up at City Hall, or payment of \$60 if requested by mail. Both amounts include tax. Neither amount is refundable. A prospective bidder must provide to the City Clerk's office, the firm's name, address, telephone and fax number, a contact person and a valid email address.

If requesting any item(s) by mail, please send check to the following:

**CITY OF TORRANCE
OFFICE OF THE CITY CLERK
3031 TORRANCE BLVD
TORRANCE, CA 90503-2970
ATTN: B2016-43**

The project estimate is between \$140,000 - \$170,000. The work shall be completed within sixty (60) calendar days of receipt of the Notice to Proceed (NTP). The sixty (60) calendar day schedule includes: completion of contractual paperwork, submittal review and onsite work. Bids are required for the entire work described herein.

The City has determined the bidder must "B" General Building Contracting license. Bidder, as the prime contractor, must have successfully completed at least two (2) public works projects of a similar size and scope within the last five (5) years. Bidder must have at least five (5) years' experience under the current license and organization. References must reflect this experience.

Per Division 2, Chapter 2 of the Torrance Municipal Code, the Torrance City Council may reject any and all bids, waive any informality or irregularity in such bids, and determine the lowest responsible bidder.

No Facsimile Bids shall be accepted by the City. By order of the City Council of the City of Torrance, California.

This contract is subject to California State Prevailing Wage- Pursuant to Section 1771 and 1773 of the Labor Code, the general prevailing wage rates in the county in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, are attached and available from the California Department of Industrial Relations' internet site at <http://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>. Future effective general prevailing wage rates which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

APPRENTICESHIP EMPLOYMENT STANDARDS. Attention is directed to the provisions in Sections 1776 and 1777.5 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under them.

One of the legal requirements for working on a public works project is the employment of apprentices. The Division of Apprenticeship Standards provides assistance to contractors in employing apprentices on public works sites.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, <http://www.dir.ca.gov/das/PublicWorksForms.htm>

Contractor Registration with the Department of Industrial Relations (SB 854)

- No contractor or subcontractor may be listed on a bid proposal or awarded a contract for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement). For additional information and to register online go to <http://www.dir.ca.gov/Public-Works/Contractors.html>

For further information, please contact Nina Schroeder, Business Manager General Services Department at 310-781-7151 or nschroeder@torranceca.gov. If emailing questions, please put project title in the subject line.

PART B
INSTRUCTIONS TO BIDDERS

**CITY OF TORRANCE
CALIFORNIA**

INSTRUCTIONS TO BIDDERS

A. QUALIFICATION OF BIDDERS

1. Competency of Bidders

The Bidder shall be thoroughly competent and capable of satisfactorily performing the Work covered by the Bid. As specified in the Bid Documents, the Bidder shall furnish statements of previous experience on similar work. When requested, the Bidder shall also furnish a plan of procedure proposed; organization, machinery, plant and other equipment available for the Work; evidence of financial condition and resources; and any other documentation as may be required by the City to determine if the Bidder is responsible.

2. Contractor's License

At the time of submitting the Bid, the Bidder shall be licensed as a contractor in accordance with the provisions of Chapter 9, Division 3, of the California Business and Professions Code. The required prime contractor license class for the Work is shown in the project Notice Inviting Bids. However, the City reserves the right to award the Contract to a contractor with another class if the City determines that the license is proper for the work.

B. BIDDER RESPONSIBILITY

A responsible Bidder is a Bidder who has demonstrated the attribute of trustworthiness, as well as ability, fitness, capacity and experience to satisfactorily perform the work.

Bidders are notified that, in accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council may determine whether the Bidder is responsible based on a review of the Bidder's performance on other contracts.

If, based on the provision and criteria in Division 2, Chapter 2 of the Torrance Municipal Code, the General Services Director proposes not to recommend the award of contract to the apparent low bidder, the Director shall notify the Bidder in writing of its intention to recommend to the City Council that the Council award the contract to the next lowest responsible bidder. If the Bidder presents evidence in rebuttal to the recommendation, the Director shall evaluate the merits of such evidence, and based on that evaluation, make a recommendation to the City Council.

C. ADDENDA TO THE CONTRACT DOCUMENTS

The City reserves the right to revise or amend these specifications prior to the date set for opening bids. Revisions and amendments, if any, will be announced by an addendum to this bid. If the revisions require additional time to enable Bidders to respond, the City may postpone the opening date accordingly. In such case, the addendum will include an announcement of the new opening date.

All addenda must be attached to the bid. Failure to attach any addendum may render the bid non-responsive and cause it to be rejected.

D. PREPARATION OF THE BID

1. Examination of Site, Plans and Specifications

Bidders shall examine the site of the work and acquaint themselves with all conditions affecting the work. By submitting a bid, the bidder shall be held to have personally examined the site and the drawings, to have carefully read the specifications, and to have satisfied itself as to its ability to meet all the difficulties attending the execution of the proposed contract before the delivery of this proposal, and agrees that if awarded the contract, will make no claim against the City based on ignorance or misunderstanding of the plans, specifications, site conditions and/or contract provisions.

The Contractor shall have included in the contract price a sufficient sum to cover all items, including labor, materials, tools, equipment and incidentals, that are implied or required for the complete improvements as contemplated by the drawings, specifications, and other contract documents.

2. Bid Instructions and Submissions

The Bid shall be submitted on the Bid Proposal forms included in the Specifications. All Bid Documents must be completed, executed and submitted with Bid by Bidder. Required seven (7) Bid Proposal Documents:

1. Bidder's Proposal
2. Addenda Acknowledgment
3. Contractor's Affidavit
4. Bid Bond (10% of Bid)
5. List of Subcontractors and DIR Registration
6. References (1 pages)
7. Bidder's Information (2 pages)

All prices submitted will be considered as including any and all sales or use taxes. In case of a discrepancy between a unit bid price and total bid, the unit price shall prevail.

E. BID FORM/BOND

The Bid must be accompanied by cash, a certified or cashier's check, or a surety bond (bid bond) payable to the City of Torrance. Bids must be submitted on the proposal forms furnished by the City Clerk's office. The Bid Guaranty shall be in an amount equivalent to at least 10% of the Total Contract Bid Price.

Within ten (10) days after the award of the contract, the City Clerk will return the proposal guarantees accompanying those proposals, which are not to be considered in making the award. All other proposal guarantees will be held until the contract has been finally executed, after which they will be returned to the respective bidders whose proposals they accompany.

F. AFFIDAVIT

An affidavit form is enclosed. It must be completed signifying that the bid is genuine and not collusive or made in the interest or on behalf of any person not named in the bid, that the bid has not directly or indirectly induced or solicited any other Bidder to put in a sham bid or any other person, firm, or corporation to refrain from bidding, and that the Bidder has not in any manner sought by collusion to secure for itself an advantage over any other Bidder. Any bid submitted without an affidavit or in violation of this requirement will be rejected.

G. NONRESPONSIVE BIDS AND BID REJECTION

1. A Bid in which bid proposal documents are not completed, executed and submitted may be considered non-responsive and be rejected.
2. A Bid in which the Contract Unit Prices are unbalanced, which is incomplete or which shows alteration of form or irregularities of any kind, or which contains any additions or conditional or alternate Bids that are not called for, may be considered non-responsive and be rejected.

H. AWARD OF CONTRACT

In accordance with Division 2, Chapter 2 of the Torrance Municipal Code, the City Council reserves the right to reject any and all bids received, to take all bids under advisement for a period not-to-exceed sixty (60) days after date of opening thereof, to waive any informality or irregularity in the Bid, and to be the sole judge of the merits of material included in the respective bids received.

This bid does not commit the City to award a contract or to pay any cost incurred in the preparation of a bid. All responses to this bid become the property of the City of Torrance.

I. NOTICE OF INTENT TO AWARD

Approximately two (2) weeks prior to the anticipated City Council meeting awarding a contract as a result of the RFP or bid, results will be posted on the City of Torrance Web site www.Torranceca.gov and may be found by clicking on the following:

- Government
- Current Bids and RFPs
- View evaluated results of Bids and RFPs tentatively scheduled for recommendation of award to the City Council [here](#).

J. BID PROTEST PROCEDURES

Please refer to City of Torrance website link below to obtain the City's Protest Procedures. [http://www.torranceca.gov/PDF/Bid RFP Protest Procedures.pdf](http://www.torranceca.gov/PDF/Bid_RFP_Protest_Procedures.pdf)

K. EXECUTION OF CONTRACT

After the Contract is awarded, the awarded bidder shall execute the following five (5) documents:

1. Performance Bond (100% of Bid)
2. Labor and Material Bond (100% of Bid)
3. Contract – Contract Services Agreement
4. Verification of Insurance Coverage (Certificates and Endorsements)
5. Business License Application Form

The contract shall be signed by the successful bidder and returned, together with the contract bonds and evidence of required insurance coverage, **within ten (10) working days**, not including Sundays, after the bidder has received notice that the contract has been awarded. Failure to execute the contract as specified above shall be just cause for annulment of the award and forfeiture of the proposal guarantee. The Contract shall not be considered binding upon the CITY until executed by the authorized CITY officials.

Bond amounts shall be as provided in Section 2-4 of the Standard Specifications for Public Works Construction. The Performance Bond shall be required to remain in effect for one (1) year following the date specified in the City's Notice of Completion, or, if no Notice of Completion is recorded for one (1) year following the date of final acceptance by the City Manager.

L. PERMITS, LICENSES AND CONTRACT SERVICES AGREEMENT

The Contractor shall procure and execute all permits, licenses, pay all charges and fees, and give all notices necessary and incidental to completion of Work. The Contractor shall execute a Contract Services Agreement. No fee is charged for a permits issued by the City of Torrance for a City project. The Contractor shall obtain a City of Torrance Business License. To obtain a Torrance Business License please call 310-618-5923.

M. INSURANCE

The Contractor shall maintain Automobile Liability, General Liability and Workers' Compensation Insurance as specified in the Contract Services Agreement included in the Project Specifications.

N. SUBCONTRACTS

B. Each Bidder shall comply with the Chapter of the Public Contract Code including sections 4100 through 4113. The Contractor shall perform, with its own organization, Contract work amounting to at least 50 percent of the Contract price. When a portion of an item is subcontracted, the value of the work subcontracted will be based on the estimated percentage of the Contract Unit Price, determined from information submitted by the Contractor, subject to approval by the City Manager (or his designated representative). This percentage will be based on the number of direct labor hours used on the project. Supervision and overhead are not included in this calculation.

O. TRAFFIC CONTROL- Not applicable

P. PRE-BID INQUIRIES

Bidders with pre-bid inquiries must submit questions in writing to the General Services Department. Any and all questions must be emailed to Nina Schroeder, Business Manager at NSchroeder@torranceca.gov. Please list "**Charles H. Wilson Park Gazebo Structure**" in the subject line of the email. For questions of a general nature, bidders may contact Nina Schroeder directly at 310-781-7151.

Q. RESPONSIBILITY OF CITY.

The City of Torrance shall not be held responsible for the care or protection of any material or parts of the work prior to final acceptance, except as expressly provided in these specifications.

R. CONSTRUCTION SCHEDULE AND PRECONSTRUCTION CONFERENCE.

The office staff of the City is currently operating on a 9/80 work week; therefore, City Hall is closed every other Friday.

In accordance with the herein Special Provisions, after notification of award and prior to start of any work, **the Contractor shall submit to the City for approval its proposed Construction Schedule within ten (10) working days from the date of Notice of Proceed.** At least two (2) days, exclusive of Saturdays, Sundays and holidays, prior to commencement of work, the Contractor shall attend a pre-construction conference.

The Contractor will provide all product and equipment submittals to the City of Torrance or designated consultant within ten (10) working days from the date of Notice to Proceed. The Contractor shall immediately order materials requiring a delivery delay upon receipt of a written notice from the City that the City Council has approved an Award of Contract. Contractor shall provide written proof(s) of timely material order(s) and shall include any delivery delays in the Construction Schedule.

S. PROGRESS OF THE WORK AND TIME FOR COMPLETION

The Contractor shall begin work after the mailing, from the City Manager to the Contractor, by first class mail, postage prepaid, of a Notice to Proceed. **The Contractor shall diligently prosecute the same to completion within sixty (60) calendar days of the start date specified in said Notice.** The sixty calendar schedule includes, completion of contractual paper work, equipment material submittal review, the lead time for materials and equipment, and on site work.

During periods when weather or other conditions are unfavorable for construction, the Contractor shall pursue only such portions of the work as shall not be damaged thereby. No portions of the work whose acceptable quality or efficiency will be affected by any unfavorable conditions shall be constructed while those conditions exist. It is expressly understood and agreed by and between the Contractor and the City that the Contract time for completion of the work described herein is a reasonable time taking into consideration the average climatic and economic conditions and other factors prevailing in the locality of the work.

T. LIQUIDATED DAMAGES

The Contractor agrees that failure to complete work within the time allowed will result in damages being sustained by the City. Contractor and City agree that failure to complete the project will result in inconvenience to the citizens of Torrance and the City of Torrance and their customers using the affected areas. Such delay will also result in the necessity of several inspections each day to ensure that the project is properly progressing. The parties also agree that failure to complete the project on time will prevent the City from having the use of the facility. Therefore, the parties agree such damages among others are, and will continue to be, impracticable and extremely difficult to determine, but that **five hundred dollars (\$500) per calendar day** is the minimum value of such costs to the City and is a reasonable amount that the Contractor agrees to reimburse the City for each calendar day of delay in finishing the work in excess of the time specified for completion, plus any authorized time extensions.

Execution of the contract under these specifications shall constitute agreement by the Contractor and the City that five hundred dollars (\$500) per calendar day is the minimum value of the costs and actual damage caused by failure of the Contractor to complete the work within the allotted time, that such sum is liquidated damages and shall not be construed as a penalty, and that such sum may be deducted from payments due the Contractor if such delay occurs. Said amount may be reduced by the City if work is sufficiently completed within the allotted time so that the damages are minimized.

The Contractor will not be assessed liquidated damages for any delay in completion of the work when such delay was caused by the failure of the City or the owner of a utility to provide for removal or relocation of the existing utility facilities; provided, however, that the Contractor shall have given the City and the owner of a utility timely notice of the interference. "Timely notice" shall be defined as a verbal notice (to be followed up in writing) no later than one (1) hour after initial discovery of the interference unless the City Representative is present, in which case notice shall be given immediately in writing to the City Manager.

U. GENERAL PREVAILING WAGE RATE

This contract is also subject to California State Prevailing Wage-

Pursuant to Section 1771 and 1773 of the Labor Code, the general prevailing wage rates in the county in which the work is to be done have been determined by the Director of the California Department of Industrial Relations. These wages are set forth in the General Prevailing Wage Rates for this project, are attached and available from the California Department of Industrial Relations' internet site at <http://www.dir.ca.gov/Public-Works/Prevailing-Wage.html>. Future effective general prevailing wage rates which have been predetermined and are on file with the California Department of Industrial Relations are referenced but not printed in the general prevailing wage rates.

APPRENTICESHIP EMPLOYMENT STANDARDS. Attention is directed to the provisions in Sections 1776 and 1777.5 of the California Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under them.

One of the legal requirements for working on a public works project is the employment of apprentices. The Division of Apprenticeship Standards provides assistance to contractors in employing apprentices on public works sites.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Director of Industrial Relations, <http://www.dir.ca.gov/DAS/DASApprenticesOnPublicWorksSummaryOfRequirements.htm>

Contractor Registration with the Department of Industrial Relations (DIR)

- No contractor or subcontractor may be listed on a bid proposal or awarded a contract for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].
- This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.
- All contractors and subcontractors must furnish electronic certified payroll records directly to the Labor Commissioner (aka Division of Labor Standards Enforcement).

For additional information and to register online go to <http://www.dir.ca.gov/Public-Works/Contractors.html>

DIR provides a searchable database of registered contractors and subcontractors on its website <https://efiling.dir.ca.gov/PWCR/Search>, so that all contractors can comply with the requirement to only use registered contractors and subcontractors

Labor Code Section 1813

The contractor or subcontractor shall, as a penalty to the state or political subdivision on whose behalf the contract is made or awarded, forfeit twenty-five dollars (\$25) for each worker employed in the execution of the contract by the respective contractor or subcontractor for each calendar day during which the worker is required or permitted to work more than 8 hours in any one calendar day and 40 hours in any one calendar week

in violation of the provisions of this article. In awarding any contract for public work, the awarding body shall cause to be inserted in the contract a stipulation to this effect. The awarding body shall take cognizance of all violations of this article committed in the course of the execution of the contract, and shall report them to the Division of Labor Standards Enforcement.

Labor Code Section 1815

Notwithstanding the provisions of Sections 1810 to 1814, inclusive, of this code, and notwithstanding any stipulation inserted in any contract pursuant to the requirements of said sections, work performed by employees of contractors in excess of 8 hours per day, and 40 hours during any one week, shall be permitted upon public work upon compensation for all hours worked in excess of 8 hours per day at not less than 1¹/₂ times the basic rate of pay.

- V. PRELIMINARY NOTICES: Preliminary Notices should be mailed to the following:
General Services Department
Attn: Nina Schroeder
3350 Civic Center Drive
Torrance, CA 90503

PART C
SPECIAL PROVISIONS

SECTION A. GENERAL

The Project Specifications for all work on this project are the specifications contained in the Project Manual for the Charles H. Wilson Park Gazebo Structure, prepared by BOA Architecture, and the City of Torrance.

These Specifications are intended to govern all aspects of the appurtenant construction including, but not limited to, materials, methods and details, except as modified herein or as inconsistent with the provisions hereof.

DEFINITIONS

Whenever the following terms are used, they shall be understood to mean and refer to the following:

CITY - City of Torrance.

Board- The City Council of the City of Torrance herein referred to as City Council.

City Manager - The General Services Director of the City of Torrance, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties entrusted to them.

Consulting Architect– Edward Lok Ng
BOA Architecture
1511 Cota Avenue
Long Beach, CA 90813
(562) 912-7900
Lok.ng@boaarchitecture.com

Laboratory - The designated laboratory authorized by the City of Torrance to test materials and work involved in the contract.

SECTION B. REFERENCE TO STANDARDS OR PUBLICATIONS

Any reference made in the Contract Documents to any specification, standard, or publication of any organization shall, in the absence of a specific designation to the contrary, be understood to refer to the latest edition of the specification, standard, or publication in effect as of the date of advertising the work, except to the extent that said standard or publication may be in conflict with applicable laws, ordinances, or governing codes. Contractors should be aware of all new code requirements (such as Cal-Green) when dealing with HVAC and other general building work. No requirements of these specifications or the drawings shall be waived because of any provisions of, or omission from, said standards or publications.

SECTION C. DESCRIPTION OF THE WORK

1. Scope of the Work. The work to be done consists of furnishing all labor, materials, tools, equipment and incidentals complete to the Charles H. Wilson Park Gazebo Structure as shown in the plans and specifications prepared by BOA Architecture and the City of Torrance.

SECTION D. GENERAL PROCEDURES

1. Specifications and Drawings Complementary. The Specifications and Drawings are complementary, and what is called for in one shall be as binding as if called for in both.
2. Order of Precedence of Contract Documents. In resolving conflicts resulting from conflicts, errors, or discrepancies in any of the Contract Documents, the order of precedence shall be as follows:
 1. Change Orders (including Plans and Specifications attached thereto).
 2. Permits Issued by other agencies.
 3. Contract Services Agreement
 4. Addenda
 5. Special or General Provisions.
 6. Plans
 7. City Standard Plans
 8. Instructions to Bidders
 9. Reference Specifications

Within the Specifications the order of precedence is as follows:

1. Addenda/Change Orders
2. Permits from other agencies/supplemental agreements
3. Special or General Provisions
4. Instructions to Bidders
5. Referenced Standard Plans
6. Referenced Specifications

With reference to the Plans/Drawings the order of precedence is as follows:

1. Change Orders plans govern over Addenda and Contract Drawings
 2. Addenda plans govern over Contract plans.
 3. Contract plans govern over standard plans
 4. Detail plans govern over general plans
 5. Figures govern over scaled dimensions
3. Discrepancies in the Contract Documents. Any discrepancies, conflicts, errors or omissions found in the Contract Documents shall be promptly reported in writing to the City Manager, who will issue a correction in writing. The Contractor shall not take advantage of any such discrepancies, conflicts, errors or omissions, but shall comply with any corrective measures regarding the same prescribed by the City Manager, and no additional payment or time shall be allowed therefor.

If discrepancies are discovered between the drawings and the specifications, and no specific interpretation is issued prior to bidding, the decision regarding this interpretation shall rest with the City Manager. The Contractor shall be compelled to act on the City Manager's decision as directed. In the event the installation is not in compliance with the direction of the City Manager, the installation shall be corrected by and at the expense of the Contractor at no additional cost to the City.

See Section E of these Special Provisions for "Claims".

4. Errors and Omissions. If the Contractor, in the course of the work, becomes aware of any claimed errors or omissions in the contract documents or in the City's field work, he shall immediately inform the City Manager. The City Manager shall promptly review the matter, and if the City Manager finds an error or omission has been made the City Manager shall determine the corrective actions and advise the Contractor accordingly. If the corrective work associated with an error or omission increases or decreases the amount of work called for in the Contract, the City shall issue an appropriate Change Order. After discovery of an error or omission by the Contractor, any related work performed by the Contractor shall be done at its risk unless authorized by the City Manager.

5. Changed Conditions. The plans for the work show conditions as they are believed by the City Manager to exist, but it is not intended or to be inferred that the conditions as shown thereon constitute a representation by the City that such conditions are actually existent, nor shall the City be liable for any loss sustained by the Contractor as a result of any variance of the conditions as shown on the plans and the actual conditions revealed during the progress of the work or otherwise. The word "conditions" as used in this paragraph includes, but is not limited to, site conditions, both surface and subsurface.

The Contractor shall examine the site, compare it with the drawings and specifications and shall satisfy itself as to the conditions under which the work is to be performed. The Contractor shall ascertain and check the location of all existing structures, utilities and equipment, which may affect its work. The Contractor shall be responsible to re-examine the site, as necessary, for performance of change orders or other proposed changes, which may affect its work. No allowance shall subsequently be made on the Contractor's behalf for any extra expense or loss of time, which is incurred due to failure or negligence on its part to make such examination.

6. As-built Drawings. The Contractor shall maintain a control set of Plans and Specifications on the Work site at all times. All final locations determined in the field, and any deviations from the Plans and Specifications, shall be marked in red on this control set to show as-built conditions. Upon completion of the Work, the Contractor shall submit the control set to the Engineer for approval. Final payment will not be made until this requirement is met.
7. Construction Staking. The Contractor is responsible for all construction staking and shall be responsible for the cost of any re-staking required due to disturbance caused by its operations, failure to protect the work site from vandalism or other causes of loss.
8. Notice to Proceed. Notwithstanding any other provisions of the Contract, the Contractor shall not be obligated to perform any work and the City shall not be obligated to accept or pay for any work performed by the Contractor prior to delivery of a Notice to Proceed. The City's knowledge of work being performed prior to delivery of the Notice to Proceed shall

not obligate the City to accept or pay for such work. The Contractor shall provide all required contract bonds and evidences of insurance prior to commencing work at the site.

9. Delay in Obtaining Materials. No extension of time will be granted for a delay caused by the inability to obtain materials unless the Contractor either obtains advance written approval from the City Manager or obtains from the supplier and furnishes to the City Manager documentary proof that such materials could not be obtained due to war, government regulations, labor disputes, strikes, fires, floods, adverse weather necessitating the cessation of work, or other similar action of the elements. The Contractor is required to order materials in a timely manner as specified in the "Instruction to Bidders".
10. Inspection and Testing. The Work is subject to inspection and approval by the CITY or any authorized representative. It is the duty of the Contractor to notify the inspector that specific work is ready for inspection. Requests for inspections should be made through the automated phone system at 310-618-5901, using the permit number and following the prompts. Request can be made up to 11pm the night before an inspection is required. The inspection will be typically made the next day.

All rough Mechanical, Electrical and Plumbing should be inspected by the City Specialty Inspectors and approved prior to any framing inspection. 2. All framing, fire-blocking and bracing shall be in place prior to ordering a framing inspection. 3. Gypsum board shall only be installed after approved framing inspection and then order a gypsum board nailing inspection prior to tape and finishing.

The CITY will make, or have made, such inspections and tests, as he deems necessary to see that the Work is in conformance with the Contract Documents. The contractor will responsible for coordinating all inspections/tests and pay for all related costs. In the event such inspections or tests reveal noncompliance with the Contract Documents, the Contractor shall bear the cost of such corrective measures as deemed necessary by the CITY, as well as the cost of subsequent re-inspection and re-testing.

Work done in the absence of inspection by the CITY may be required to be removed and replaced under the inspection of the CITY, and the entire cost of removal and replacement, including the cost of all materials which may be furnished by the CITY and used in the work thus removed, shall be borne by the Contractor, regardless of whether the work removed is found to be defective or not. Work covered without the approval of the CITY shall, if so directed, be uncovered to the extent required by the CITY, and the Contractor shall similarly bear the entire cost of performing all the work and furnishing all the materials necessary for the removal of the covering and its subsequent replacement, including all costs for additional inspection.

The CITY and any authorized representatives shall at all times have access to the Work during its construction at shops and yards as well as the Work site. The Contractor shall provide every reasonable facility for ascertaining that the materials and workmanship are in accordance with the Contract Documents.

Inspection of the Work shall not relieve the Contractor of the obligation to fulfill all conditions of the Contract.

11. Project Schedule

Within ten (10) working days after the receipt of the Notice to Proceed, the Contractor shall submit a proposed construction schedule to the CITY for approval. The schedule shall be in accordance with section 11 and shall be in sufficient detail to show chronological relationship of all activities of the Work. These include, but are not limited to: estimated starting and completion dates of various activities, submittal of shop drawings to the Engineer for approval, procurement of materials and scheduling of equipment.

No work may be started until the Schedule has been approved in writing. The work shall be scheduled to assure that construction will be completed within the specified time. The Contractor shall be responsible for coordination of all phases of the operation so that the time schedule can be met.

During construction, the Contractor shall also submit to the CITY, a two-week "look ahead" construction schedule during the construction progress meetings held biweekly.

If the Contractor decides to make a major change in the method of operations after commencing construction, or if the schedule fails to reflect the actual progress, the Contractor shall submit to the CITY a revised construction schedule in advance of beginning revised operations.

Sequence of Construction - The Contractor shall sequence the Work in a manner to expeditiously complete the project with a minimum of inconvenience to the CITY or adjacent owners.

The construction schedule shall conform to the following criteria:

- 1) The schedule shall be prepared using the latest version of Microsoft Project or approved equal.
- 2) Work activities shall be based on the following:
 - a) Contract Unit Price items shall be subdivided into those portions to be constructed during each stage or phase of construction (if applicable).
 - b) Lump sum items shall be subdivided into those portions to be constructed during each stage or phase of construction.
- 3) Utility relocations and/or coordination by the Contractor per section 14 of these Special Provisions shall be considered as activities.
- 4) Required submittals, working and shop drawings shall be included as activities.
- 5) The procurement of construction materials and equipment with long lead times for deliveries shall be included as activities.
- 6) Work to be performed by subcontractors shall be identified and shown as work activities.
- 7) Start and completion dates of each activity shall be illustrated.

- 8) Completion of all Work under the Contract shall be within the time specified in these Special Provisions and in accordance with the Plans and Specifications.

12. Mobilization

- 12.1 Scope. Mobilization shall include the provision of the Construction Schedule; Best Management Practices and Safety Plan, site review; obtaining all permits, insurance, and bonds; moving onto the site all materials and equipment; furnishing temporary construction facilities, and removal of same at completion of the project; all as required for the proper performance and completion of the work.

Mobilization shall include, but not be limited to, the following principle items.

- (a) Submittal and modification, as required, of the Construction Schedule.
- (b) All associated documentation and submittals as required.
- (c) Installing temporary construction power and wiring.
- (d) Establishing fire protection system.
- (e) Developing construction water supply.
- (f) Providing on-site sanitary facilities and portable water facilities, as required.
- (g) Arranging for and erection of Contractor's work and storage yard.
- (h) Submittal of all required insurance certificates and bonds, including subcontractors.
- (i) Obtaining all required permits.
- (j) Posting all OSHA required notices and establishment of safety programs.
- (k) Have the Contractor's superintendent at the job site full-time.
- (l) Pot-holing and other research and review as necessary to verify site conditions and utility locations, including research and review as necessary for change orders.
- (m) Demobilization.

13. Markup.

The markups mentioned hereinafter shall include, but are not limited to, all costs for the services of superintendents, project managers, timekeepers and other personnel not

working directly on the change order, and pickup or yard trucks used by the above personnel. These costs shall not be reported as labor and equipment elsewhere except when actually performing work directly on the change order and then shall be reported at the labor classification of the work performed.

The following percentages shall apply for additional work:

| | |
|----------|-------------|
| Profit | 10% maximum |
| Overhead | 5% maximum |

Subcontractor markup: maximum allowed is 10% for profit and overhead on the subcontractor's costs.

To the sum of the costs and markups provided for in this subsection, one (1) percent shall be added as compensation for bonding and one (1) percent for insurance.

For changes involving only a decrease in price, the contractor and subcontractors shall return as credit for overhead and profit those same percentages which are allowed for like changes involving increases in price. On changes involving both an increase and decrease in price, overhead and profit will be allowed only on the net increase.

For conflicts in the plans or specifications, the bidder shall include in his bid the more expensive item and/or methodology.

14. Utilities. The Contractor shall provide coordination with all the utility companies involved and shall provide protection from damage to their facilities. The Contractor shall be responsible for repair or replacement to said facilities made necessary by its failure to provide required protection. The Contractor is required to include utility requirements in the Construction Schedule.

The Contractor shall be solely responsible to check all utility record maps, books, and/or other data in the possession of the CITY, other agencies, and/or all utility companies, and no allowance shall be made for any failure to have done so.

The Contractor shall utilize the services of "Underground Service Alert - Southern California" for utility locating in all public right-of-ways by calling 1-800-227-2600 at least 48 hours prior to any excavation.

15. Completion, Acceptance and Warranty. If, in the CITY's judgment, the Work has been completed and is ready for acceptance, the CITY will so certify and will determine the date when the Work was completed. This will be the date when the Contractor is relieved from responsibility to protect the Work. The CITY may cause a Notice of Completion to be filed and recorded with the Los Angeles County Recorder's Office. At the CITY's option, the CITY may certify acceptance to the City Council who may then cause a Notice of Completion to be filed and recorded with the Los Angeles County Recorder's Office.

Manufacturer's warranties and guaranties furnished for materials used in the Work and instruction sheets and parts listed supplied with materials shall be delivered to the CITY prior to acceptance of the Work. The duration of the warranty or guaranty shall be the standard of the industry with a minimum of 1 year from the date of Notice of Completion or Date of Acceptance.

The prime contractor will be required to warranty the entire project regardless of whether warranties from subcontractors are also required. Coordination and correction of any issue related to project scope that arises during that one (1) year warranty period will be the responsibility of the prime contractor.

Manufacturer's warranties shall not relieve the Contractor of liability under these Specifications. Such warranties only shall supplement the Contractor's responsibility.

The CITY may require a manufacturer's warranty on any product offered for use.

16. Superintendent. Contractor shall employ a superintendent to be in attendance at all times on the Project site during the performance of the work. Superintendent shall represent the Contractor, and communications given to the superintendent shall be binding as if given to the Contractor. The superintendent must be able to communicate verbally and in writing to both City Representatives and all contract labor regarding all aspects of work. The superintendent shall be approved by the CITY prior to the start of the Work. If the designated superintendent is rejected, the Contractor shall immediately designate another superintendent in writing and submit to the City for consideration. A replacement must be provided before work continues. The CITY shall have the authority to require the Contractor to remove its superintendent and/or alternate superintendent at any time and at no cost to the CITY.

17. Requirements for Recycling Construction Materials

The City of Torrance requires that all demolition projects and construction or remodeling projects valued at \$100,000 or more must recycle or reuse at least 50% of the materials that leave the project site and 100% of excavated soil and land-clearing debris. A Waste Management Plan (WMP) form is part of the permit process for projects that meet these criteria. The WMP form is available at the permit counter or a downloadable form is available here:

<http://www.torranceca.gov/PDF/WMPFormRevised2012onestop.pdf>

Step 1 - when applying for the permit, you must complete the WMP form stating that at least 50% of the waste generated by the project will be recycled or reused and that 100% of excavated soil and land-clearing debris will be recycled or reused.

Step 2 - collect and keep all receipts and records of the disposal, recycling, donations, and reuse of the materials from your project. Receipts must show material type, tonnage or weight, how the materials were treated, the facility used, and the address of the jobsite.

Step 3 - complete the WMP by attaching the receipts listing the actual disposal and recycling that occurred and submitting the WMP to Public Works for approval. This is required before your project can get its final inspection.

Failure to fulfill the requirements of the WMP process will result in penalties of \$5,000 for construction projects and \$10,000 for demolition projects, as per the Torrance Municipal Code.

For additional information concerning recycling or recycling facilities please visit the City of Torrance Public Works Department website at <http://www.torranceca.gov/8614.htm>

SECTION E. PAYMENTS TO CONTRACTOR AND CLAIMS

1. Breakdown of Contract Prices. The Contractor shall, within ten (10) working days of receipt of a request from the City, submit a complete breakdown of lump sum bid prices showing the value assigned to each part of the work, including a separate line item for profit and overhead. The breakdown shall include separate line for each subcontractor's bid and/or contract amount. For each part of the work where an application for payment may include materials or equipment, purchased or fabricated and stored, but not yet installed, provide separate line items on the schedule of values. In submitting the breakdown, the Contractor certifies that it is not unbalanced and that the value assigned to each part of the work represents its estimate of the actual cost, including profit and overhead, of performing that part of the work. The breakdown shall be sufficiently detailed to permit its use by the City Manager as one of the bases for evaluating requests for payment. No extra costs shall be allowed for these breakdowns.
2. Payment for Labor and Materials. The Contractor shall pay and cause the subcontractors to pay any and all accounts for labor, including Worker's Compensation premiums, State Unemployment and Federal Social Security payments and all other wage and salary deductions required by law. The Contractor also shall pay and cause the subcontractors to pay any and all accounts for services, equipment and materials used by it and the subcontractors during the performance of work under this contract. All such accounts shall be paid as they become due and payable. If requested by the City Manager, the Contractor shall immediately furnish the City with proof of payment of such accounts.
3. Additional Work. Payment for additional work and all expenditures in excess of the bid amount must be authorized in writing by the City Manager. Such authorization shall be obtained by the Contractor prior to engaging in additional work. It shall be the Contractor's sole responsibility to obtain written approval from the City Manager for any change(s) in material or in the work proposed by suppliers or subcontractors. No payment shall be made to the Contractor for additional work which has not been approved in writing, and the Contractor hereby agrees that it shall have no right to additional compensation for any work not so authorized.
4. Claims. The Contractor shall not be entitled to the payment of any additional compensation for any cause, including any act, or failure to act, by the City, or the happening of any event, thing or occurrence, unless he shall have given the City due written notice of potential claim as hereinafter specified.

The written notice of potential claim shall set forth the reasons for which the Contractor believes additional compensation will or may be due, the nature of the costs involved, and, insofar as possible, the amount of the potential claim. Said notice shall be submitted on a form approved by the City at least forty-eight (48) hours (two working days) in advance

of performing said work, unless the work is of an emergency nature, in which case the Contractor shall notify and obtain approval from the Inspector prior to commencing the work. The City Manager may require the Contractor to delay construction involving the claim, but no other work shall be delayed, and the Contractor shall not be allowed additional costs for any said delay but may be allowed on extension of time if the City Manager agrees that the work delayed is a controlling element of the Construction Schedule. The Contractor shall be required to submit any supporting data (or a detailed written explanation justifying further delay) within five (5) Work Days of a request from the City Manager and shall be responsible for any delays resulting from late and/or incomplete submittals. By submitting a Bid, the Contractor hereby agrees that this Section shall supersede Sections 6-6.3 and 6-6.4 of the Standard Specifications.

The City shall be the sole authority to interpret all plans, specifications and contract documents, and no claim shall be accepted which is based on the Contractor's ignorance, misunderstanding or noncompliance with any provision or portion thereof.

The Contractor shall be responsible to provide all data and to obtain all approvals required by said Specifications. No claims or extras shall be approved by the City unless all work was done under the direction of and subject to the approval of the Inspector.

It is the intention of this Subsection that differences between the parties arising under and by virtue of the Contract be brought to the attention of the City Manager at the earliest possible time in order that such matters may be settled, if possible, or other appropriate action promptly taken. The Contractor hereby agrees that it shall have no right to additional compensation for any claim that may be based on any such act, failure to act, event, thing or occurrence for which no written notice of potential claim as herein required was filed.

5. Noncompliance with Plans and Specifications. Failure of the Contractor to comply with any requirement of the Plans and Specifications, and/or to immediately remedy any such noncompliance upon notice from the City Manager, may result in suspension of Contract Progress Payments. Any Progress Payments so suspended shall remain in suspension until the Contractor's operations and/or submittals are brought into compliance to the satisfaction of the City Manager. No additional compensation shall be allowed as a result of suspension of Progress Payments due to noncompliance with the plans or specifications. The Contractor shall not be permitted to stop work due to said suspension of Progress Payments.
6. Request for Payment. Contractor shall submit all requests for payment on AIA Document G702 – Application and Certificate for Payment and G703- Continuation Sheet. For each item provide a column for listing: Item Number; Description of Work; Scheduled Value, Previous Application; Authorized Change Orders; Total completed and Stored to Date of Application; Percentage of Completion; Balance to Finish; and Retainage.

Prior to submittal of said form, all items for which payment is requested shall be checked and approved in writing by the City Manager (or authorized representative). No payments will be made unless all back-up data (below) is submitted with the payment request and the Progress Payment Invoice is signed by both Contractor and Manager.

Back up data required to process payment shall include but not limited to the following:

- Copies of Certified payroll covering the payment period and proof of submission to the Department of Industrial Relations (DIR). Although this project is subject to compliance monitoring and enforcement by the DIR. The City reserves the right to review the certified payroll for compliance, request additional clarification and require the contractor to provide proof of payment such as cancelled checks prior to payment of invoice.
- Conditional and Unconditional lien releases from contractor, subcontractor and suppliers from which the contractor is expecting payment. Release forms must reflect amount of draw and through date of invoice payment.
 1. Conditional releases for the current pay period shall be provided with the current payment request.
 2. Unconditional releases for the immediate prior pay period shall be provided with the current payment request. Unconditional lien release forms must match the preceding Conditional release form in amount and through date and must be signed authorized company representative. Unconditional Lien Release on Final Payment with a zero balance is required from all material suppliers and subcontractors with the request for final payment (retention). All Unconditional Lien Release on Final Payments will be signed authorized company representative and notarized. Release forms can be found at the Contractors State License Board website at http://www.cslb.ca.gov/Media_Room/Industry_Bulletins/2012/July_11.aspx. The most update current lien release forms must be used.
- Any required outside agency reports and/or written observations.

The City will retain 5 percent of the value of all work done and materials installed as part security for fulfillment of the contract by Contractor. The full 5 percent retention will be retained on all payments for 35 days after the filing of the Notice of Completion. In addition 125% of the amount of the “unreleased” STOP notice will be withheld.

There shall be no separate payment for any relocations, barriers or forms, grading or temporary construction required to construct the improvements herein. Payment for these items shall be absorbed in the Bid Prices for the applicable work to which they are appurtenant, and no extra costs shall be allowed.

The payment of amounts due to the Contractor shall be contingent upon the Contractor furnishing the City with a release of all claims against the City arising by virtue of the Contract related to said amounts. It is the contractor’s responsibility to provide the correct releases in order to obtain payment by the City.

7. Preconstruction Meeting. The City will hold a preconstruction meeting with awarded contractor and discuss procedural, and mobilization issues. The contractor needs to have key administrative staff attend such as: project manager, superintendent, administrative personnel who handle the certified payroll and pay requests. Attendees can also include subcontractors and major suppliers/fabricators.

In addition to staffing preconstruction meeting, the awarded contractor will need to bring the following to the preconstruction meeting for review and discussion.

- Project Schedule (see Special Provisions section D General Procedures #11 for details)

- Schedule of Values (see Special Provisions section E, Payment to Contractors #1 for details)
- Submittal Log, list all the submittals you plan to submit for review.
- List of subcontractors and contact information
- List of principal suppliers and fabricators
- Prime Contractor's Safety Plan
- Example of Daily Project Report and Daily Sign In Sheet for Review (see #8 below for details)
- Prime contractors' signed contract, performance and labor and material bonds, insurance certificates with endorsements, workers compensation certificate and Torrance Business License. The exact verbiage of additionally insured clause for the insurance is found Item 18 of the contract. The certificate needs to be endorsed as well naming the City as additional insured.
- Signed contracts for subcontractors, insurance certificates with endorsements, workers compensation certificates. Subcontractor's insurance must also meet the contract limits and language and be endorsed.

8. Daily Project Report and Contractor Daily Sign In Sheets.

The contractor will provide daily project reports and/or contractor daily sign in sheets on a daily basis (next working day) during the entire project's onsite work. At minimum the report/sign in sheets consist of the following:

Daily Project Report

- Date, Day of the Week, and Weather
- List all staffing by prime and subcontractors each, include classification and count of persons within the specific classification and denote journeyman vs. apprentice.
- List all deliveries of equipment and materials to site.
- List onsite discussions, meetings any resolution or direction given.
- List progress of the project (i.e. was scheduled and completed).
- List all visitors to the site.

Daily Sign In Sheet

- Date and Day of the Week
- Employee Name (printed), company and classification of work, denote journeyman vs. apprentice for each classification.
- Time started and time completed, any breaks.
- Employee signature of the individual worker (confirming reported time)

PART D
BID DOCUMENTS

BIDDER'S PROPOSAL

**BID FOR CHARLES H. WILSON PARK GAZEBO STRUCTURE
B2016-43**

In accordance with the Notice Inviting Bids pertaining to the receiving of sealed proposals by the City Clerk of the City of Torrance for the above titled improvement, the undersigned hereby proposes to furnish all work to be performed in accordance with the Plans, Specifications and Contract Documents, prepared by BOA Architecture and City of Torrance for the bid as set forth in the following schedules.

Assignment of Contractor's values:

| Item | Description | Total Amount In Figures* |
|-------------|---|-----------------------------|
| Division 02 | Existing Conditions: Section 024113 Selective Site Demolition | |
| Division 05 | Metals: Section 055000 Metal Fabrications, and Section 055213 Pipe Railings & Welded Wire Column Covers | |
| Division 26 | Electrical: Specifications on Plans, See Sheet E1 | |
| Division 31 | Earthwork: Site Clearing | |
| Division 32 | Exterior Improvements: Concrete Paving | |
| | B2016-43 -BID TOTAL- in figures* | |

Bidder's Proposal- B2016-43

BASE BID TOTAL: _____
(In Words)*

***BID MAY BE REJECTED IF TOTAL IS NOT SHOWN IN FIGURES AND WORDS.**

The City of Torrance awards to the lowest responsible bidder per the Torrance Municipal Code. Based on the funding available, the City reserves the right to select any combination of base bid and bid alternate(s) to determine the lowest responsible bidder for award.

The undersigned furthermore agrees to enter into and execute a contract, with necessary bonds, at the prices set forth herein and in case of default in executing such contract, with necessary bonds, the check or bond accompanying this bid and the money payable thereon shall be forfeited thereby to and remain the property of the City of Torrance.

The above prices include all work appurtenant to the various items as outlined in the specifications and all work or expense required for the satisfactory completion of said item.

The undersigned declares that it has carefully examined the Specifications, and Contract Documents, and has investigated the site of the work and is familiar with the conditions thereon.

Company Name

Signature of principal in company

Date

Name and Title of Signer

Address: _____

Phone: _____ DIR Registration #: _____

License No. & Classifications _____

ACKNOWLEDGMENT OF ADDENDA RECEIVED

B2016-43

The Bidder shall acknowledge the receipt of addenda by placing an "X" by each addendum received.

Addendum No. 1 _____

Addendum No. 2 _____

Addendum No. 3 _____

Addendum No. 4 _____

Addendum No. 5 _____

Addendum No. 6 _____

Addendum No. 7 _____

Addendum No. 8 _____

If an addendum or addenda have been issued by the City and not noted above as being received by the Bidder, the Bid Proposal may be rejected.

Bidder's Signature

Date

CONTRACTOR'S AFFIDAVIT B2016-43 (CONTINUED)

7. That the Contractor did not, directly or indirectly, submit the Contractor's bid price or any breakdown thereof, or the contents thereof, or divulge information or data relative thereto, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, or to any individual or group of Individuals, except to the City of Torrance, or to any person or persons who have a partnership or other financial interest with said Contractor in its business.

Dated this _____ day of _____, 20_____.

Subscribed and Sworn to
before me this _____ (Contractor)
of _____, 20_____ _____
(Title)

Notary Public in and for said
County and State.
(Seal)

BID BOND

B2016-43

KNOW ALL MEN BY THESE PRESENTS: That we, _____

_____ as principal, and _____ as sureties, are held and firmly bound unto the City of Torrance, State of California, in the penal sum of _____ dollars (\$ _____), for the payment whereof we hereby bind ourselves, our successors, heirs, executors or administrators jointly and severally, firmly by these presents.

The condition of this obligation is such that, whereas the above bounded principal is about to file with and submit to the City of Torrance a bid or proposal for the performance of certain work as required in the City of Torrance, Project No. B2016-43, said work being: Charles H. Wilson Park Gazebo Structure, in compliance with the Specifications therefore under an invitation of said City contained in a notice or advertisement for bids or proposals; now if the bid or proposal of said principal shall be accepted and if said work be thereupon awarded to the principal by said City and if the said principal shall enter into a contract with the said City in accordance with said bid or proposal, or if the bid or proposal of the said principal is rejected, then this bond shall be void and of no effect and otherwise in full force and effect.

WITNESS our hands this _____ day of _____, 20 _____.

Principal

Surety/Attorney-in-Fact

Signature

Name: _____
Local Address: _____
Phone No.: _____
Fax No.: _____

LIST OF SUBCONTRACTORS

The Bidder is required to fill in the following blanks in accordance with the provisions of the Subletting and Subcontracting Fair Practices Act (Chapter 2 of Division 5, Title 1 of the Government Code of the State of California) and should familiarize itself with Section 2-3 of the Standard Specifications.

1. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

2. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

3. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

4. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

5. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

6. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

7. Name Under Which Subcontractor is Licensed: _____

Subcontractor's Address: _____

Specific Description of Sub-Contract: _____

License Number: _____ CA License Classification/Type: _____

DIR Registration #: _____

Subcontractors must be properly licensed under the laws of the State of California for the type of work which they are to perform. Do not list alternate subcontractors for the same work.

The Bidding Contractor must include each subcontractor's contract license number (AB 44). An inadvertent error in listing the subcontractor's license number shall not be grounds for filing a bid protest or grounds for considering the bid nonresponsive, if the corrected contractor's license number is submitted to the public entity by the prime contractor within 24 hours after the bid opening-provided that the correct license number corresponds to the submitted name and location of the subcontractor.

No contractor or subcontractor may be listed on a bid proposal or awarded a contract for a public works project unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)].

REFERENCES

(Bidder must have completed at least two (2) public works projects of a similar size and scope within the last five (5) years). The references must reflect this requirement.

1. Name (Firm/Agency): _____

Address: _____

Contact Person: _____ Telephone No.: _____

Title of Project: _____

Project Location: _____

Date of Completion _____ Contract Amount: \$ _____

2. Name (Firm/Agency): _____

Address: _____

Contact Person: _____ Telephone No.: _____

Title of Project: _____

Project Location: _____

Date of Completion _____ Contract Amount: \$ _____

3. Name (Firm/Agency): _____

Address: _____

Contact Person: _____ Telephone No.: _____

Title of Project: _____

Project Location: _____

Date of Completion _____ Contract Amount: \$ _____

4. Name (Firm/Agency): _____

Address: _____

Contact Person: _____ Telephone No.: _____

Title of Project: _____

Project Location: _____

Date of Completion _____ Contract Amount: \$ _____

Bidder's Information

The bidder must provide a detailed list of the trades and the description of the work they will perform with their own company for this project.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____

Contractor's License No.: _____ Class: _____

Date first obtained: _____

Has License ever been suspended or revoked? _____

If yes, describe when and why _____

Any current claims against License or Bond? _____

If yes, describe claims: _____

Type of entity (check one)

_____ Incorporated _____ Partnership _____ Sole Proprietorship

If incorporated, in what state _____

Federal Tax ID Number # _____

Principals in Company (List all - attach additional sheets if necessary):

| <u>NAME</u> | <u>TITLE</u> | <u>LICENSE NO.</u> (If Applicable) |
|-------------|--------------|---------------------------------------|
| _____ | _____ | _____ |
| _____ | _____ | _____ |
| _____ | _____ | _____ |

PART E

**DOCUMENTS TO BE COMPLETED
AND DELIVERED TO CITY AS PART
OF CONTRACT WITH THE CITY**

PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____ as Principal(s) and ____ a _____ corporation, incorporated, organized, and existing under the laws of the State of _____, and authorized to execute bonds and undertakings and to do a general surety business in the State of California, as Surety, are jointly and severally held and firmly bound unto the City of Torrance, a municipal corporation, located in the County of Los Angeles, State of California, in the full and just sum of: _____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which sum, well and truly to be made, we bind ourselves and our respective heirs, executors, administrators, representative, successors and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that: WHEREAS, said Principal(s) have/has entered into, or are/is about to enter into, a certain written contract or agreement, dated as of the _____ day of _____, 20____, with the said City of Torrance for the CHARLES H. WILSON PARK GAZEBO STRUCTURE, B2016-43 , all as is more specifically set forth in said contract or agreement, a full, true and correct copy of which is hereunto attached, and hereby referred to and by this reference incorporated herein and made a part hereof;

NOW, THEREFORE, if the said Principal(s) shall faithfully and well and truly do, perform and complete, or cause to be done, performed and complete, each and all of the covenants, terms, conditions, requirements, obligations, acts and things, to be met, done or performed by said Principal(s), including any guarantee period as set forth in, or required by, said contract or agreement, all at and within the time or times, and in the manner as therein specified and contemplated, then this bond and obligation shall be null and void; otherwise it shall be and remain in full force, virtue and effect.

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration or addition to said contract or agreement, or of any feature or item or items of performance required therein or there under, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or item or items of performance required therein or there under.

PERFORMANCE BOND B2016-43 (CONTINUED)

In the event any suit, action or proceedings is instituted to recover on this bond or obligation, said Surety will pay, and does hereby agree to pay, as attorney's fees for said City, such sum as the Court in any such suit, action or proceeding may adjudge reasonable.

EXECUTED, SEALED AND DATED this _____ day of _____, 20____

CORPORATE SEAL

PRINCIPAL(S):

BY _____

BY _____

CORPORATE SEAL

SURETY:

BY _____

Name: _____
Local Address: _____
Phone No.: _____
Fax No.: _____

LABOR AND MATERIAL BOND
B2016-43

KNOW ALL MEN BY THESE PRESENTS:

That we, _____
As Principal(s) and _____ a
corporation, incorporated, organized, and existing under the laws of the State of
_____, and authorized to execute bonds and undertakings and to do a general surety
business in the State of California, as Surety, are jointly and severally held and firmly bound unto:

- (a) The State of California for the use and benefit of the State Treasurer, as ex-officio Treasurer and custodian of the Unemployment Fund of said State; and
- (b) The City of Torrance, California; and
- (c) Any and all persons who do or perform or who did or performed work or labor upon or in connection with the work or improvement referred to in the contract or agreement hereinafter mentioned; and
- (d) Any and all materialmen, persons, companies, firms, association, or corporations, supplying or furnishing any materials, provisions, provender, transportation, appliances or power, or other supplies used in, upon, for or about or in connection with the performance of the work or improvement contracted to be executed, done, made or performed under said contract or agreement; and
- (e) Any and all persons, companies, firms, associations, or corporations furnishing, renting, or hiring teams, equipment, implements or machinery for, in connection with, or contributing to, said work to be done or improvement to be made under said contract or agreement; and
- (f) Any and all persons, companies, firms, associations, or corporations who supply both work and materials;

and whose claim has not been paid by said Principal(s), in full and just sum of _____ Dollars (\$ _____), lawful money of the United States of America, for the payment of which will and truly to be made, said Principal(s) and said Surety do hereby bind themselves and their respective heirs, executors, administrators, representatives, successors and assigns, jointly and severally, firmly by these presents.

LABOR AND MATERIAL BOND (CONTINUED)

THE CONDITION OF THE FOREGOING OBLIGATION IS SUCH, THAT: WHEREAS, said Principal(s) have/has entered into or are/is about to enter into a certain written contract or agreement, dated as of the _____ day of _____ 20 ____, with the City of Torrance for the CHARLES H. WILSON PARK GAZEBO STRUCTURE, B2016-43, all as is more specifically set forth in said contract or agreement, a full, true and correct copy of which is hereunto attached, and hereby referred to and by this reference incorporated herein and made a part hereof;

NOW, THEREFORE, if the said Principal(s) (or any of his/her, its, or their subcontractors) under said contract or agreement fails or fail to pay:

- (1) For any materials, provisions, provender, transportation, appliances, or power, or other supplies; or
- (2) For the hire of any teams, equipment, implements, or machinery; or
- (3) For any work or labor; supplies, furnished, provided, used, done or performed in, upon, for or about or in connection with the said work or improvement; or
- (4) For amounts due under the Unemployment Insurance Act of the State of California with respect to such work or improvement;

the Surety on this bond will pay the same in an amount not exceeding the sum hereinabove specified in this bond; and, also, in case suit is brought upon this bond, said Surety will (and does hereby agree to) pay a reasonable attorney's fee, to be fixed and taxed as costs, and included in the judgment therein rendered.

This bond shall (and it is hereby made to) insure to the benefit of any and all persons entitled to file claims under Section 1192.1 of the Code of Civil Procedure of the State of California, so as to give a right of action to them or their assigns in any suit brought upon this bond, all as contemplated under the provisions of Section 4205 of the Government Code, and of Chapter 1 of Title 4 of Part 3 of the Code of Civil Procedure, of the State of California.

This bond is executed and filed in connection with said contract or agreement hereunto attached to comply with each and all of the provisions of the laws of the State of California above mentioned or referred to, and of all amendments thereto, and the obligors so intend and do hereby bind themselves accordingly.

LABOR AND MATERIAL BOND B2016-43 (CONTINUED)

The said Surety, for value received, hereby stipulates and agrees that no amendment, change, extension of time, alteration, or addition to said contract or agreement, or of any feature or item or items of performance required therein or thereunder, shall in any manner affect its obligations on or under this bond; and said Surety does hereby waive notice of any such amendment, change, extension of time, alteration, or addition to said contract or agreement, and of any feature or item or items of performance required therein or thereunder.

EXECUTED, SEALED AND DATED this _____ day of _____, 20 _____

CORPORATE SEAL

PRINCIPAL:

BY _____

CORPORATE SEAL

SURETY:

BY _____

Name: _____
Local Address: _____
Phone No.: _____
Fax No.: _____

CONTRACT SERVICES AGREEMENT

This CONTRACT SERVICES AGREEMENT ("Agreement") is made and entered into as of _____ (the "Effective Date"), by and between the CITY OF TORRANCE, a municipal corporation ("CITY"), and _____, ("CONTRACTOR").

RECITALS:

- A. The CITY wishes to retain the services of an experienced and qualified CONTRACTOR to _____ ;
- B. In order to obtain the desired services, The CITY has circulated a Notice Inviting Bids for the _____ (the "NIB"); and
- C. CONTRACTOR has submitted a Bid (the "Bid") in response to the NIB. CONTRACTOR represents that it is qualified to perform those services requested in the Plans and Specifications. Based upon its review of all Bids submitted in response to the NIB, The CITY is willing to award the contract to CONTRACTOR.

AGREEMENT:

1. SERVICES TO BE PERFORMED BY CONTRACTOR

CONTRACTOR will provide the services and install those materials listed in the Plans and Specifications, which are on file in the General Services Department. The NIB and the Plans and Specifications are made a part of this Agreement. A copy of the Bid is attached as Exhibit A.

2. TERM

Unless earlier terminated in accordance with Paragraph 4 below, this Agreement will continue in full force and effect for one year from the Effective Date.

3. COMPENSATION

A. CONTRACTOR's Fee.

For services rendered pursuant to this Agreement, CONTRACTOR will be paid in accordance with CONTRACTOR's Bid; provided, however, that in no event will the total amount of money paid the CONTRACTOR, for services initially contemplated by this Agreement, exceed the sum of \$ _____ ("Agreement Sum"), plus a contingency of \$ _____, if first approved in writing by the CITY.

- B. Schedule of Payment.
Provided that the CONTRACTOR is not in default under the terms of this Agreement, upon presentation of an invoice, CONTRACTOR will be paid monthly, within 30 days after the date of the monthly invoice.

4. TERMINATION OF AGREEMENT

- A. Termination by CITY for Convenience.
1. CITY may, at any time, terminate the Agreement for CITY's convenience and without cause.
 2. Upon receipt of written notice from CITY of such termination for CITY's convenience, CONTRACTOR will:
 - a) cease operations as directed by CITY in the notice;
 - b) take actions necessary, or that CITY may direct, for the protection preservation of the work; and
 - c) except for work directed to be performed prior to the effective date of termination stated in the notice, terminate all existing subcontracts and purchase orders and enter into no further subcontracts and purchase orders.
 3. In case of such termination for CITY's convenience, CONTRACTOR will be entitled to receive payment for work executed; and costs incurred by reason of such termination, along with reasonable overhead and profit on the work not executed.
- B. Termination for Cause.
1. If either party fails to perform any term, covenant or condition in this Agreement and that failure continues for 15 calendar days after the nondefaulting party gives the defaulting party notice of the failure to perform, this Agreement may be terminated for cause; provided, however, that if during the notice period the defaulting party has promptly commenced and continues diligent efforts to remedy the default, the defaulting party will have such additional time as is reasonably necessary to remedy the default.
 2. In the event this Agreement is terminated for cause by the default of the CONTRACTOR, the CITY may, at the expense of the CONTRACTOR and its surety, complete this Agreement or cause it to be completed. Any check or bond delivered to the CITY in connection with this Agreement, and the money payable thereon, will be forfeited to and remain the property of the CITY. All moneys due the CONTRACTOR under the terms of this Agreement will be retained by the CITY, but the retention will not release the CONTRACTOR and its surety from liability for the default. Under these circumstances, however, the CONTRACTOR and its surety will be credited with the amount of money retained, toward any amount by which the cost of completion exceeds the Agreement Sum and any amount authorized for extra services.

3. Termination for cause will not affect or terminate any of the rights of the CITY as against the CONTRACTOR or its surety then existing, or which may thereafter accrue because of the default; this provision is in addition to all other rights and remedies available to the CITY under law.

C. Termination for Breach of Law.

In the event the CONTRACTOR or any of its officers, directors, shareholders, employees, agents, subsidiaries or affiliates is convicted (i) of a criminal offense as an incident to obtaining or attempting to obtain a public or private contract or subcontract, or in the performance of a contract or subcontract; (ii) under state or federal statutes of embezzlement, theft, forgery, bribery, falsification or destruction of records, receiving stolen property, or any other offense indicating a lack of business integrity or business honesty which currently, seriously, and directly affects responsibility as a public consultant or contractor; (iii) under state or federal antitrust statutes arising out of the submission of bids or proposals; or (iv) of violation of Paragraph 20 of this Agreement; or for any other cause the CITY determines to be so serious and compelling as to affect CONTRACTOR's responsibility as a public consultant or contractor, including but not limited to, debarment by another governmental agency, then the CITY reserves the unilateral right to terminate this Agreement or to impose such other sanctions (which may include financial sanctions, temporary suspensions or any other condition deemed appropriate short of termination) as it deems proper. The CITY will not take action until CONTRACTOR has been given notice and an opportunity to present evidence in mitigation.

5. **FORCE MAJEURE**

If any party fails to perform its obligations because of strikes, lockouts, labor disputes, embargoes, acts of God, inability to obtain labor or materials or reasonable substitutes for labor or materials, governmental restrictions, governmental regulations, governmental controls, judicial orders, enemy or hostile governmental action, civil commotion, fire or other casualty, or other causes beyond the reasonable control of the party obligated to perform, then that party's performance shall be excused for a period equal to the period of such cause for failure to perform.

6. **RETENTION OF FUNDS**

CONTRACTOR authorizes the CITY to deduct from any amount payable to CONTRACTOR (whether or not arising out of this Agreement) any amounts the payment of which may be in dispute or that are necessary to compensate the CITY for any losses, costs, liabilities, or damages suffered by the CITY, and all amounts for which the CITY may be liable to third parties, by reason of CONTRACTOR's negligent acts or omissions or willful misconduct in performing or failing to perform CONTRACTOR's obligations under this Agreement. In the event that any claim is made by a third party, the amount or validity of which is disputed by CONTRACTOR, or any indebtedness exists that appears to be the basis for a claim of lien, the CITY may withhold from any payment due, without

liability for interest because of the withholding, an amount sufficient to cover the claim. The failure of the CITY to exercise the right to deduct or to withhold will not, however, affect the obligations of CONTRACTOR to insure, indemnify, and protect the CITY as elsewhere provided in this Agreement.

7. THE CITY'S REPRESENTATIVE

Steve Minor is designated as the "City Representative," authorized to act in its behalf with respect to the work and services specified in this Agreement and to make all decisions in connection with this Agreement. Whenever approval, directions, or other actions are required by the CITY under this Agreement, those actions will be taken by the City Representative, unless otherwise stated. The City Manager has the right to designate another City Representative at any time, by providing notice to CONTRACTOR.

8. CONTRACTOR REPRESENTATIVE(S)

The following principal(s) of CONTRACTOR are designated as being the principal(s) and representative(s) of CONTRACTOR authorized to act in its behalf with respect to the work specified in this Agreement and make all decisions in connection with this Agreement:

9. INDEPENDENT CONTRACTOR

The CONTRACTOR is, and at all times will remain as to the CITY, a wholly independent contractor. Neither the CITY nor any of its agents will have control over the conduct of the CONTRACTOR or any of the CONTRACTOR's employees, except as otherwise set forth in this Agreement. The CONTRACTOR may not, at any time or in any manner, represent that it or any of its agents or employees are in any manner agents or employees of the CITY. CITY has no duty, obligation, or responsibility to CONTRACTOR's agents or employees under the Affordable Care Act. CONTRACTOR is solely responsible for any tax penalties associated with the failure to offer affordable coverage to its agents and employees under the Affordable Care Act and any other liabilities, claims and obligations regarding compliance with the Affordable Care Act with respect to CONTRACTOR's agents and employees. CITY is not responsible and shall not be held liable for CONTRACTOR's failure to comply with CONTRACTOR's duties, obligations, and responsibilities under the Affordable Care Act. CONTRACTOR agrees to defend, indemnify and hold CITY harmless for any and all taxes and penalties that may be assessed against CITY as a result of CONTRACTOR's obligations under the Affordable Care Act relating to CONTRACTOR's agents and employees.

10. BUSINESS LICENSE

The CONTRACTOR must obtain a City business license prior to the start of work under this Agreement, unless CONTRACTOR is qualified for an exemption.

11. OTHER LICENSES AND PERMITS

CONTRACTOR warrants that it has all professional, contracting and other permits and licenses required to undertake the work contemplated by this Agreement.

12. FAMILIARITY WITH WORK

By executing this Agreement, CONTRACTOR warrants that CONTRACTOR (a) has thoroughly investigated and considered the scope of services to be performed, (b) has carefully considered how the services should be performed, and (c) fully understands the facilities, difficulties and restrictions attending performance of the services under this Agreement. If the services involve work upon any site, CONTRACTOR warrants that CONTRACTOR has or will investigate the site and is or will be fully acquainted with the conditions there existing, prior to commencement of services set forth in this Agreement. Should CONTRACTOR discover any latent or unknown conditions that will materially affect the performance of the services set forth in this Agreement, CONTRACTOR must immediately inform the CITY of that fact and may not proceed except at CONTRACTOR's risk until written instructions are received from the CITY.

13. CARE OF WORK

CONTRACTOR must adopt reasonable methods during the life of the Agreement to furnish continuous protection to the work, and the equipment, materials, papers, documents, plans, studies and other components to prevent losses or damages, and will be responsible for all damages, to persons or property, until acceptance of the work by the CITY, except those losses or damages as may be caused by the CITY's own negligence.

14. CONTRACTOR'S ACCOUNTING RECORDS; OTHER PROJECT RECORDS

Records of the CONTRACTOR's time pertaining to the project, and records of accounts between the CITY and the CONTRACTOR, will be kept on a generally recognized accounting basis. CONTRACTOR will also maintain all other records, including without limitation specifications, drawings, progress reports and the like, relating to the project. All records will be available to the CITY during normal working hours. CONTRACTOR will maintain these records for three years after final payment.

15. PREVAILING WAGE

All Services rendered pursuant to this agreement must be provided in accordance with all ordinances, resolutions, statutes, rules, regulations,

and laws of City and any Federal, State, or local governmental agency of competent jurisdiction. Contractor is aware of the requirements of California Labor Code Sections 1720, et seq., and 1770, et seq., as well as of California Code of Regulations, Title 8, Sections 1600, et seq., (collectively, the "Prevailing Wage Laws"), which require the payment of prevailing wage rates and the performance of other requirements on "Public works" and "Maintenance" projects. If the Services are being performed as part of an applicable "Public works" or "Maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is ONE THOUSAND DOLLARS (\$1,000) or more, Contractor agrees to fully comply with the Prevailing Wage Laws including, but not limited to, requirements related to the maintenance of payroll records and the employment of apprentices.

Pursuant to California Labor Code Section 1725.5, no contractor or subcontractor may be awarded a contract for public work on a "Public works" project unless registered with the California Department of Industrial Relations ("DIR") at the time the contract is awarded. If the Services are being performed as part of an applicable "Public works" or "Maintenance" project, as defined by the Prevailing Wage Laws, this project is subject to compliance monitoring and enforcement by the California Department of Industrial Relations ("DIR"). Contractor will maintain and will require all subcontractors to maintain valid and current DIR Public Works Contractor registration during the term of this Agreement. Contractor must notify City in writing immediately, and in no case more than twenty-four (24) hours, after receiving any information that Contractor's or any of its subcontractor's DIR registration status has been suspended, revoked, expired, or otherwise changed.

It is understood that it is the responsibility of Contractor to determine the correct salary scale. Contractor will make copies of the prevailing rates of per diem wages for each craft, classification, or type of worker needed to execute the Services available to interested parties upon request, and post copies at Contractor's principal place of business and at the project site, if any. The statutory penalties for failure to pay prevailing wage or to comply with State wage and hour laws will be enforced. Contractor must forfeit to City TWENTY FIVE DOLLARS (\$25.00) per day for each worker who works in excess of the minimum working hours when Contractor does not pay overtime. In accordance with the provisions of Labor Code Sections 1810 et seq., eight (8) hours is the legal working day.

Contractor must also comply with State law requirements to maintain payroll records and must provide for certified records and inspection of records as required by California Labor Code Section 1770 et seq., including Section 1776. Contractor will defend (with counsel selected by City), indemnify, and hold City, its elected officials, officers, employees, and agents free and harmless from any claim or liability arising out of any

failure or alleged failure to comply with the Prevailing Wage Laws. It is agreed by the parties that, in connection with performance of the Services, including, without limitation, any and all "Public works" (as defined by the Prevailing Wage Laws), Contractor will bear all risks of payment or non-payment of prevailing wages under California law and/or the implementation of Labor Code Section 1781, as the same may be amended from time to time, and/or any other similar law. Contractor acknowledges and agrees that it will be independently responsible for reviewing the applicable laws and regulations and effectuating compliance with those laws. Contractor will require the same of all subcontractors.

16. INDEMNIFICATION

CONTRACTOR will indemnify, defend, and hold harmless CITY, the City Council, each member thereof, present and future, its officers, agents and employees from and against any and all liability, expenses, including defense costs and legal fees, and claims for damages whatsoever, including, but not limited to, those arising from breach of contract, bodily injury, death, personal injury, property damage, loss of use, or property loss however the same may be caused and regardless of the responsibility for negligence. The obligation to indemnify, defend and hold harmless includes, but is not limited to, any liability or expense, including defense costs and legal fees, arising from the negligent acts or omissions, or willful misconduct of CONTRACTOR, its officers, employees, agents, subcontractors or vendors. It is further agreed, CONTRACTOR's obligations to indemnify, defend and hold harmless will apply even in the event of concurrent negligence on the part of CITY, the City Council, each member thereof, present and future, or its officers, agents and employees, except for liability resulting solely from the negligence or willful misconduct of CITY, its officers, employees or agents. Payment by CITY is not a condition precedent to enforcement of this indemnity. In the event of any dispute between CONTRACTOR and CITY, as to whether liability arises from the sole negligence of the CITY or its officers, employees, agents, subcontractors or vendors, CONTRACTOR will be obligated to pay for CITY's defense until such time as a final judgment has been entered adjudicating the CITY as solely negligent. CONTRACTOR will not be entitled in the event of such a determination to any reimbursement of defense costs including but not limited to attorney's fees, expert fees and costs of litigation.

17. NON-LIABILITY OF THE CITY'S OFFICERS AND EMPLOYEES

No officer or employee of the CITY will be personally liable to CONTRACTOR, in the event of any default or breach by the CITY or for any amount that may become due to CONTRACTOR.

18. INSURANCE

A. CONTRACTOR must maintain at its sole expense the following insurance, which will be full coverage not subject to self insurance provisions:

- (1) Automobile Liability, including owned, non-owned and hired vehicles, with at least the following limits of liability:
 - (a) Primarily Bodily Injury with limits of at least \$500,000 per person, \$1,000,000 per occurrence; and
 - (b) Primary Property Damage of at least \$250,000 per occurrence; or
 - (c) Combined single limits of \$1,000,000 per occurrence.
 - (2) General Liability including coverage for premises, products and completed operations, independent contractors, personal injury and contractual obligations with combined single limits of coverage of at least \$2,000,000 per occurrence.
 - (3) Workers' Compensation with limits as required by the State of California and Employers Liability with limits of at least \$1,000,000.
- B. The insurance provided by CONTRACTOR will be primary and non-contributory.
- C. The CITY of Torrance, the City Council and each member thereof, members of boards and commissions, every officer, agent, official, employee and volunteer must be named as additional insureds under the automobile and general liability policies.
- D. CONTRACTOR must provide certificates of insurance and/or endorsements to the City Clerk of the City of Torrance before the commencement of work.
- E. Each insurance policy required by this Paragraph must contain a provision that no termination, cancellation or change of coverage can be made without thirty days notice to the CITY.
- F. CONTRACTOR must include all subcontractors as insureds under its policies or must furnish separate certificates and endorsements for each subcontractor. All coverage for subcontractors will be subject to all of the requirements of this Paragraph 18.

19. SUFFICIENCY OF INSURERS

Insurance required by this Agreement will be satisfactory only if issued by companies admitted to do business in California, rated "B+" or better in the most recent edition of Best's Key Rating Guide, and only if they are of a financial category Class VII or better, unless these requirements are waived by the Risk Manager of the CITY ("Risk Manager") due to unique circumstances. In the event the Risk Manager determines that the work or services to be performed under this Agreement creates an increased or decreased risk of loss to the CITY, the CONTRACTOR agrees that the minimum limits of any insurance policies and/or the performance bond required by this Agreement may be changed

accordingly upon receipt of written notice from the Risk Manager; provided that CONTRACTOR will have the right to appeal a determination of increased coverage by the Risk Manager to the City Council of the CITY within 10 days of receipt of notice from the Risk Manager.

20. CONFLICT OF INTEREST

- A. No officer or employee of the CITY may have any financial interest, direct or indirect, in this Agreement, nor may any officer or employee participate in any decision relating to the Agreement that effects the officer or employee's financial interest or the financial interest of any corporation, partnership or association in which the officer or employee is, directly or indirectly interested, in violation of any law, rule or regulation.
- B. No person may offer, give, or agree to give any officer or employee or former officer or employee, nor may any officer or employee solicit, demand, accept, or agree to accept from another person, a gratuity or an offer of employment in connection with any decision, approval, disapproval, recommendation, preparation or any part of a program requirement or a purchase request, influencing the content of any specification or procurement standard, rendering of advice, investigation, auditing, or in any other advisory capacity in any way pertaining to any program requirement, contract or subcontract, or to any solicitation or proposal.

21. NOTICE

- A. All notices, requests, demands, or other communications under this Agreement will be in writing. Notice will be sufficiently given for all purposes as follows:
 - 1. Personal delivery. When personally delivered to the recipient: notice is effective on delivery.
 - 2. First Class mail. When mailed first class to the last address of the recipient known to the party giving notice: notice is effective three mail delivery days after deposit in an United States Postal Service office or mailbox.
 - 3. Certified mail. When mailed certified mail, return receipt requested: notice is effective on receipt, if delivery is confirmed by a return receipt.
 - 4. Overnight delivery. When delivered by an overnight delivery service, charges prepaid or charged to the sender's account: notice is effective on delivery, if delivery is confirmed by the delivery service.
 - 5. Facsimile transmission. When sent by fax to the last fax number of the recipient known to the party giving notice: notice is effective on receipt. Any notice given by fax will be deemed received on

the next business day if it is received after 5:00 p.m. (recipient's time) or on a non-business day.

7. Addresses for purpose of giving notice are as follows:

CONTRACTOR:

Fax:

CITY:

City Clerk
City of Torrance
3031 Torrance Boulevard
Torrance, CA 90509-2970
Fax: (310) 618-2931

with a copy to:

Attn: Nina Schroeder
General Services Department
3350 Civic Center Drive
Torrance, CA 90503
Fax: 310-781-7199

- B. Any correctly addressed notice that is refused, unclaimed, or undeliverable because of an act or omission of the party to be notified, will be deemed effective as of the first date the notice was refused, unclaimed or deemed undeliverable by the postal authorities, messenger or overnight delivery service.
- C. Either party may change its address or fax number by giving the other party notice of the change in any manner permitted by this Agreement.

22. PROHIBITION AGAINST ASSIGNMENT AND SUBCONTRACTING

This Agreement and all exhibits are binding on the heirs, successors, and assigns of the parties. The Agreement may not be assigned or subcontracted by either the CITY or CONTRACTOR without the prior written consent of the other.

23. INTEGRATION; AMENDMENT

This Agreement represents the entire understanding of the CITY and CONTRACTOR as to those matters contained in it. No prior oral or written understanding will be of any force or effect with respect to the terms of this Agreement. The Agreement may not be modified or altered except in writing signed by both parties.

24. INTERPRETATION

The terms of this Agreement should be construed in accordance with the meaning of the language used and should not be construed for or against either party by reason of the authorship of this Agreement or any other rule of construction that might otherwise apply.

25. SEVERABILITY

If any part of this Agreement is found to be in conflict with applicable laws, that part will be inoperative, null and void insofar as it is in conflict with any applicable laws, but the remainder of the Agreement will remain in full force and effect.

26. TIME OF ESSENCE

Time is of the essence in the performance of this Agreement.

27. GOVERNING LAW; JURISDICTION

This Agreement will be administered and interpreted under the laws of the State of California. Jurisdiction of any litigation arising from the Agreement will be in Los Angeles County, California.

28. COMPLIANCE WITH STATUTES AND REGULATIONS

CONTRACTOR will be knowledgeable of and will comply with all applicable federal, state, county and city statutes, rules, regulations, ordinances and orders.

29. WAIVER OF BREACH

No delay or omission in the exercise of any right or remedy by a nondefaulting party on any default will impair the right or remedy or be construed as a waiver. A party's consent or approval of any act by the other party requiring the party's consent or approval will not be deemed to waive or render unnecessary the other party's consent to or approval of any subsequent act. Any waiver by either party of any default must be in writing and will not be a waiver of any other default concerning the same or any other provision of this Agreement.

30. ATTORNEY'S FEES

Except as provided for in Paragraph 16, in any dispute, litigation, arbitration, or other proceeding by which one party either seeks to enforce its rights under this Agreement (whether in contract, tort or both) or seeks a declaration of any rights or obligations under this Agreement, the prevailing party will be awarded reasonable attorney's fees, together with any costs and expenses, to resolve the dispute and to enforce any judgment.

31. EXHIBITS

All exhibits identified in this Agreement are incorporated into the Agreement by this reference.

32. CONTRACTOR'S AUTHORITY TO EXECUTE

The persons executing this Agreement on behalf of the CONTRACTOR warrant that (i) the CONTRACTOR is duly organized and existing; (ii) they are duly authorized to execute this Agreement on behalf of the CONTRACTOR; (iii) by so executing this Agreement, the CONTRACTOR is formally bound to the provisions of this Agreement; and (iv) the entering into this Agreement does not violate any provision of any other Agreement to which the CONTRACTOR is bound.

CITY OF TORRANCE,
a municipal corporation



Patrick J. Furey, Mayor

By: _____

ATTEST:

Rebecca Poirier, MMC
City Clerk

APPROVED AS TO FORM:

JOHN L. FELLOWS III
City Attorney

By: _____

Attachment: Exhibit A: Bid
Revised 12/11/14

EXHIBIT A

Bid

PART F
PREVAILING WAGE RATES

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

CRAFT: # CARPENTER AND RELATED TRADES

DETERMINATION: SC-23-31-2-2015-1

ISSUE DATE: August 22, 2015

EXPIRATION DATE OF DETERMINATION: June 30, 2016* Effective until superseded by a new determination issued by the Director of Industrial Relations. Contact the Office of the Director – Research Unit at (415) 703-4774 for new rates after 10 days from the expiration date, if no subsequent determination is issued.

LOCALITY: All localities within Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, and Ventura counties.

| Classification (Journey person) | Basic Hourly Rate | Employer Payments | | | | | Straight-Time Total Hours | Straight-Time Hourly Rate | Overtime Hourly Rate | | |
|---|-------------------------|--------------------------|---------|-----------------------------|----------|--------|---------------------------------|---------------------------------|------------------------------|---------------------------------|--------------------------|
| | | Health and Welfare | Pension | Vacation/ and Holiday | Training | Other | | | Daily ^a 1 1/2X | Saturday ^b 1 1/2X | Sunday and Holiday |
| * AREA 1 | | | | | | | | | | | |
| Carpenter ^{c,1} , Cabinet Installer, Insulation Installer, Hardwood Floor Worker, Acoustical Installer | \$40.40 | \$6.60 | \$4.41 | \$3.45 ^f | \$0.57 | \$0.34 | 8 | \$55.77 | \$75.97 | \$75.97 | \$96.17 |
| Pile Driverman ¹ , Derrick Bargeman, Rockslinger, Bridge or Dock Carpenter, Cable Splicer | 40.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.90 | 76.165 | 76.165 | 96.43 |
| Bridge Carpenter ^c | 40.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.90 | 76.165 | 76.165 | 96.43 |
| Shingler ^c | 40.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.90 | 76.165 | 76.165 | 96.43 |
| Saw Filer | 40.49 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.86 | 76.105 | 76.105 | 96.35 |
| Table Power Saw Operator | 40.50 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.87 | 76.12 | 76.12 | 96.37 |
| Pneumatic Nailer or Power Stapler | 40.65 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 56.02 | 76.345 | 76.345 | 96.67 |
| Roof Loader of Shingles | 28.37 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 43.74 | 57.925 | 57.925 | 72.11 |
| Scaffold Builder | 31.60 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 46.97 | 62.77 | 62.77 | 78.57 |
| Millwright ^c | 40.90 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.54 | 8 | 56.47 | 76.92 | 76.92 | 97.37 |
| Head Rockslinger | 40.63 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 56.00 | 76.315 | 76.315 | 96.63 |
| Rock Bargeman or Scowman | 40.43 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.80 | 76.015 | 76.015 | 96.23 |
| Diver, Wet (Up To 50 Ft. Depth) ^d | \$89.06 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 104.43 | 148.96 | 148.96 | 193.49 |
| Diver, (Stand-By) ^d | \$44.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 59.90 | 82.165 | 82.165 | 104.43 |
| Diver's Tender ^d | 43.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 58.90 | 80.665 | 80.665 | 102.43 |
| Assistant Tender (Diver's) ^d | 40.53 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.90 | 76.165 | 76.165 | 96.43 |

*** AREA 2**

| | | | | | | | | | | | |
|---|-------|------|------|-------------------|------|------|---|-------|--------|--------|-------|
| Carpenter ^{c,1} , Cabinet Installer, Insulation Installer, Hardwood Floor Worker, Acoustical Installer | 39.83 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.20 | 75.115 | 75.115 | 95.03 |
| Shingler ^c | 39.97 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.34 | 75.325 | 75.325 | 95.31 |
| Saw Filer | 39.83 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.20 | 75.115 | 75.115 | 95.03 |
| Table Power Saw Operator | 40.93 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 56.30 | 76.765 | 76.765 | 97.23 |
| Pneumatic Nailer or Power Stapler | 40.09 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 55.46 | 75.505 | 75.505 | 95.55 |
| Roof Loader of Shingles | 27.98 | 6.60 | 4.41 | 3.45 ^f | 0.57 | 0.34 | 8 | 43.35 | 57.34 | 57.34 | 71.33 |

DETERMINATION: SC-31-741-1-2016-1

ISSUE DATE: February 22, 2016

EXPIRATION DATE OF DETERMINATION: May 31, 2016** The rate to be paid for work performed after this date has been determined. If work will extend past this date, the new rate must be paid and should be incorporated in contracts entered into now. Contact the Office of the Director – Research Unit for specific rates at (415) 703-4774.

LOCALITY: All localities within Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, and Ventura counties.

| Classification (Journey person) | Basic Hourly Rate | Employer Payments | | | | | Straight-Time Total Hours | Straight-Time Hourly Rate | Overtime Hourly Rate | | |
|------------------------------------|-------------------------|--------------------------|---------|-----------------------------|----------|-------|---------------------------------|---------------------------------|----------------------|--|---------------|
| | | Health and Welfare | Pension | Vacation/ and Holiday | Training | Other | | | Daily 1 1/2X | Saturday/ ^b Sunday 1 1/2X | Holiday 2X |
| Terrazzo Installer | \$37.50 | 6.60 | 4.41 | 3.38 ^f | 0.42 | | 8 | 52.31 | 71.06 | 71.06 | 89.81 |
| Terrazzo Finisher | 31.00 | 6.60 | 4.41 | 3.38 ^f | 0.42 | | 8 | 45.81 | 61.31 | 61.31 | 76.81 |

Indicates an apprenticeable craft. The current apprentice wage rates are available on the Internet @ <http://www.dir.ca.gov/OPRL/PWAppWage/PWAppWageStart.asp>. To obtain any apprentice wage rates as of July 1, 2008 and prior to September 27, 2012, please contact the Division of Apprenticeship Standards or refer to the Division of Apprenticeship Standards' website at <http://www.dir.ca.gov/das/das.html>.

a. **AREA 1** - Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara and Ventura counties.

AREA 2 - Inyo, Kern, and Mono counties. For Bridge Carpenter, Scaffold Builder, Pile Driverman, Derrick Bargeman, Rockslinger, Bridge or Dock Carpenter, Cable Splicer, Millwright, Head Rockslinger, Rock Bargeman or Scowman, Diver, Wet (Up to 50 Ft. Depth), Diver (Stand-By), Diver's Tender, and Assistant Tender (Diver's) rates, please see **Area 1** as this rate applies to **Area 2** as well. Basic Hourly Rates for **Area 2** include an additional amount deducted for vacation/holiday.

b. First eight (8) hours worked paid at 1 1/2 times the straight time rate, all hours after that paid at double (2x) the straight time rate. Saturdays in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather, major mechanical breakdown or lack of materials beyond the control of the Employer.

c. When performing welding work requiring certification, classification will receive an additional \$1.00 per hour.

d. Shall receive a minimum of 8 hours pay for any day or part thereof.

e. For specific rates over 50 ft depth, contact the Office of the Director – Research Unit. Rates for Technicians, Manifold Operators, Pressurized Submersible Operators, Remote Control Vehicle Operators, and Remote Operated Vehicle Operators, as well as rates for Pressurized Bell Diving and Saturation Diving are available upon request.

f. Includes an amount for supplemental dues.

g. All overtime worked Mon - Fri shall be paid at 1 1/2 times the straight time rate for the first four (4) hours and double (2x) the straight time for work performed after twelve (12) hours.

h. Saturdays in the same work week may be worked at straight-time rates if a job is shut down during the normal work week due to inclement weather, major mechanical breakdown or lack of materials beyond the control of the Employer. Work on Sunday, if it is the 7th consecutive workday, shall be paid at double (2x) the straight-time rate.

i. A Carpenter who performs work of forming in the construction of open cut sewers or storm drains shall receive a premium of thirteen cents (\$0.13) per hour in addition to his Carpenter's scale. This premium shall apply only on an operation in which horizontal lagging is used in conjunction with Steel H-Beams driven or placed in pre-drilled holes, for that portion of a lagged trench against which concrete is poured, namely, as a substitute for back forms, which work is performed by pile drivers.

j. When performing welding work requiring certification, classification will receive an additional \$1.00 per hour. An additional \$0.50 per hour when handling or working with new pressure-treated creosote piling or timber, or driving of used pressure-treated creosote piling.

RECOGNIZED HOLIDAYS: Holidays upon which the general prevailing hourly wage rate for Holiday work shall be paid, shall be all holidays in the collective bargaining agreement, applicable to the particular craft, classification, or type of worker employed on the project, which is on file with the Director of Industrial Relations. If the prevailing rate is not based on a collectively bargained rate, the holidays upon which the prevailing rate shall be paid shall be as provided in Section 6700 of the Government Code. You may obtain the holiday provisions for the current determinations on the Internet at <http://www.dir.ca.gov/OPRL/PWD>. Holiday provisions for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

TRAVEL AND/OR SUBSISTENCE PAYMENT: In accordance with Labor Code Sections 1773.1 and 1773.9, contractors shall make travel and/or subsistence payments to each worker to execute the work. You may obtain the travel and/or subsistence provisions for the current determinations on the Internet at <http://www.dir.ca.gov/OPRL/PWD>. Travel and/or subsistence requirements for current or superseded determinations may be obtained by contacting the Office of the Director – Research Unit at (415) 703-4774.

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
 PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

LOCALITY: LOS ANGELES COUNTY
 DETERMINATION: LOS-2016-1

| # | CRAFT (JOURNEY LEVEL) | ISSUE DATE | EXPIRATION DATE | EMPLOYER PAYMENTS | | | | | | STRAIGHT-TIME | | | | OVERTIME HOURLY RATE | | |
|----|---|------------|-----------------|-------------------|--------------------|--------------|------------------|----------|----------------|---------------|-------------------|-------|----------|----------------------|--------|------------|
| | | | | BASIC HOURLY RATE | HEALTH AND WELFARE | PENSION | VACATION/HOLIDAY | TRAINING | OTHER PAYMENTS | HOURS | TOTAL HOURLY RATE | DAILY | SATURDAY | SUNDAY HOLIDAY | | |
| | PLASTER CLEAN-UP LABORER | 08/22/2015 | 08/02/2016** | 30.160 | 7.000 | 5.900 AH | 5.050 | 1.020 | 1.020 | 8.0 | 50.150 | AL | 65.230 | AM | 65.230 | 80.310 |
| | PLUMBER: PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER | 08/22/2015 | 06/30/2016** | Y 42.930 | 7.110 | AN 11.050 AO | 3.030 | 2.550 | AP 1.000 | 8.0 | 67.670 | AQ | 89.850 | AQ | 89.850 | 110.520 |
| | SEWER AND STORM DRAIN PIPELAYER SEWER AND STORM DRAIN PIPE TRADESMAN | 08/22/2015 | 06/30/2016** | Y 33.110 | 7.110 | AN 8.200 AO | 1.000 | 2.170 | AP 1.000 | 8.0 | 52.590 | AR | 68.850 | AR | 68.850 | 84.600 |
| AS | LANDSCAPE/IRRIGATION FITTER | 08/22/2015 | 06/30/2016** | Y 17.060 | 7.110 | 0.380 | - | 1.600 | AP 0.850 | 8.0 | 27.000 | AR | 34.730 | AR | 34.730 | 42.460 |
| | LANDSCAPE/IRRIGATION TRADESMAN REFRIGERATION SERVICE AND REPAIR (HVACR) | 08/22/2015 | 06/30/2016** | Y 27.620 | 7.110 | AN 11.050 AO | 2.490 | 1.940 | AP 0.800 | 8.0 | 51.010 | AR | 66.070 | AR | 66.070 | 79.880 |
| AT | LANDSCAPE/IRRIGATION TRADESMAN REFRIGERATION SERVICE AND REPAIR TRADESMAN (HVACR) | 08/22/2015 | 06/30/2016* | Y 13.390 | 2.000 | AN 0.880 | - | 0.100 | AP 0.750 | 8.0 | 17.120 | AR | 23.820 | AR | 23.820 | 30.510 |
| | REFRIGERATION SERVICE AND REPAIR TRADESMAN (HVACR) | 02/22/2016 | 09/04/2016* | H 42.500 | 10.520 | AU 8.840 R | - | 1.300 | AV 0.600 | 8.0 | 63.760 | AW | 85.010 | AW | 85.010 | AC 105.110 |
| | FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND) | 02/22/2016 | 09/04/2016* | H 12.900 | 10.520 | 1.400 R | - | 0.500 | AV 0.480 | 8.0 | 25.800 | AW | 32.250 | AW | 32.250 | AC 38.250 |
| AX | FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND) | 02/22/2016 | 03/31/2016* | 35.570 | 8.770 | AY 11.050 | - | 0.450 | 0.250 | 8.0 | 56.090 | | 73.880 | | 73.880 | 91.660 |
| AZ | FIRE SPRINKLER FITTER (PROTECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND) | 02/22/2016 | 08/31/2017* | 40.060 | 8.920 | 14.300 R | - | 1.350 | BA 0.550 | 8.0 | 65.180 | BB | 85.210 | BB | 85.210 | 105.240 |
| # | ROOFER | 02/22/2016 | 07/31/2016** | BC 35.320 | 7.560 | BD 6.390 BE | - | 0.400 | BF 0.570 | 8.0 | 50.240 | AQ | 66.070 | AQ | 66.070 | 81.910 |
| | PITCH WORK | 02/22/2016 | 07/31/2016** | BC 37.070 | 7.560 | BD 6.390 BE | - | 0.400 | BF 0.570 | 8.0 | 51.990 | AQ | 68.700 | AQ | 68.700 | 85.410 |
| | PREPARER | 02/22/2016 | 07/31/2016** | BC 36.320 | 7.560 | BD 6.390 BE | - | 0.400 | BF 0.570 | 8.0 | 51.240 | AQ | 67.570 | AQ | 67.570 | 83.910 |
| # | SHEET METAL WORKER | 08/22/2015 | 06/30/2016** | L 41.260 | 9.870 | BH 14.710 | - | 0.820 | 0.650 | 8.0 | 67.310 | BI | 87.940 | BI | 87.940 | 108.570 |
| # | SHEET METAL WORKER LIGHT COMMERCIAL SHEET METAL WORKER UP TO AND INCLUDING 10,000 SQUARE FEET. | 08/22/2015 | 06/30/2016** | H 31.530 | 9.870 | BK 13.720 | - | 1.670 | 0.350 | 8.0 | 57.140 | BL | 72.900 | BL | 72.900 | AC 88.670 |
| BJ | TERRAZZO FINISHER | 08/22/2015 | 06/30/2016** | H 25.220 | 9.870 | BK 13.720 | - | 1.670 | 0.350 | 8.0 | 50.830 | | 63.440 | | 63.440 | 63.440 |
| # | TERRAZZO FINISHER | 08/22/2014 | 08/31/2015* | H 27.530 | 7.510 | 3.270 R | - | 0.490 | 0.120 | 8.0 | 38.920 | AA | 52.690 | AB | 52.690 | AC 66.450 |
| # | TERRAZZO WORKER | 08/22/2014 | 08/31/2015* | H 34.570 | 8.300 | 3.270 R | - | 0.570 | 0.120 | 8.0 | 46.830 | AA | 64.110 | AB | 64.110 | AC 81.400 |
| # | TILE FINISHER | 08/22/2015 | 05/31/2016** | Y 23.780 | 8.430 | 1.800 | - | 0.750 | 0.280 | 8.0 | 35.040 | AA | 46.930 | AB | 46.930 | AC 58.820 |
| # | TILE LAYER | 08/22/2015 | 05/31/2016** | Y 35.140 | 9.250 | 5.680 | - | 0.910 | 0.370 | 8.0 | 51.350 | AA | 68.920 | AB | 68.920 | AC 86.490 |

FOOTNOTES

GENERAL PREVAILING WAGE DETERMINATION MADE BY THE DIRECTOR OF INDUSTRIAL RELATIONS
 PURSUANT TO CALIFORNIA LABOR CODE PART 7, CHAPTER 1, ARTICLE 2, SECTIONS 1770, 1773 AND 1773.1
 FOR COMMERCIAL BUILDING, HIGHWAY, HEAVY CONSTRUCTION AND DREDGING PROJECTS

LOCALITY: LOS ANGELES COUNTY
 DETERMINATION: LOS-2016-1

| # | CRAFT (JOURNEY LEVEL) | ISSUE DATE | EXPIRATION DATE | EMPLOYER PAYMENTS | | | | | | STRAIGHT-TIME | | | OVERTIME HOURLY RATE | | | | |
|---|--|------------|-----------------|-------------------|--------------------|----------|------------------|----------|----------------|---------------|-------------------|-----------|----------------------|--------------------|--|--|--|
| | | | | BASIC HOURLY RATE | HEALTH AND WELFARE | PENSION | VACATION/HOLIDAY | TRAINING | OTHER PAYMENTS | HOURS | TOTAL HOURLY RATE | DAILY | SATURDAY | SUNDAY AND HOLIDAY | | | |
| | CARPET, LINOLEUM, | | | | | | | | | | | | | | | | |
| | RESILIENT TILE LAYER - SECOND SHIFT | 02/22/2016 | 04/30/2016* | A 35.820 | 5.080 | 6.300 | 2.050 | 0.630 | 0.200 | 8.0 | 50.080 | 67.990 | 67.990 | 85.900 | | | |
| B | MATERIAL HANDLER - SECOND SHIFT | 02/22/2016 | 04/30/2016* | A 10.740 | 5.080 | 2.280 | 0.550 | 0.630 | 0.100 | 8.0 | 19.380 | 24.750 | 24.750 | 30.120 | | | |
| | ELECTRICIAN: | | | | | | | | | | | | | | | | |
| | COMM & SYSTEM INSTALLER, SECOND SHIFT | 02/22/2016 | 12/25/2016** | 36.050 | 8.310 | C 4.120 | - | 0.650 | D 0.250 | 8.0 | 50.460 | E 69.030 | F 69.030 | G 87.590 | | | |
| | COMM & SYSTEM INSTALLER, THIRD SHIFT | 02/22/2016 | 12/25/2016** | 40.380 | 8.310 | C 4.120 | - | 0.650 | D 0.250 | 8.0 | 54.920 | E 75.720 | F 75.720 | G 96.510 | | | |
| | INSIDE WIREMAN, 2ND SHIFT | 02/22/2016 | 07/31/2016** | 47.860 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 76.120 | 100.760 | 100.760 | G 125.410 | | | |
| | INSIDE WIREMAN, 3RD SHIFT | 02/22/2016 | 07/31/2016** | 53.610 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 82.040 | 109.650 | 109.650 | G 137.260 | | | |
| | CABLE SPICER-WELDER, 2ND SHIFT | 02/22/2016 | 07/31/2016** | 50.250 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 78.580 | 104.460 | 104.460 | G 130.330 | | | |
| | CABLE SPICER-WELDER, 3RD SHIFT | 02/22/2016 | 07/31/2016** | 56.290 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 84.800 | 113.790 | 113.790 | G 142.780 | | | |
| | TUNNEL WIREMAN SECOND SHIFT | 02/22/2016 | 07/31/2016** | 52.840 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 81.040 | 108.150 | 108.150 | G 135.260 | | | |
| | TUNNEL WIREMAN THIRD SHIFT | 02/22/2016 | 07/31/2016** | 58.970 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 87.560 | 117.930 | 117.930 | G 148.300 | | | |
| | TUNNEL CABLE SPICER SECOND SHIFT | 02/22/2016 | 07/31/2016** | 55.280 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 83.760 | 112.230 | 112.230 | G 140.700 | | | |
| | TUNNEL CABLE SPICER THIRD SHIFT | 02/22/2016 | 07/31/2016** | 61.920 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 90.600 | 122.490 | 122.490 | G 154.380 | | | |
| | TRANSPORTATION SYSTEMS ELECTRICIAN (SECOND SHIFT) | 02/22/2016 | 07/31/2016** | 47.860 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 76.120 | E 100.760 | J 100.760 | G 125.410 | | | |
| | TRANSPORTATION SYSTEMS ELECTRICIAN (THIRD SHIFT) | 02/22/2016 | 07/31/2016** | 53.610 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 82.040 | E 109.650 | J 109.650 | G 137.260 | | | |
| | TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPICING, WELDING, AND NETA TESTING) 2ND SHIFT | 02/22/2016 | 07/31/2016** | 50.250 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 78.580 | E 104.460 | J 104.460 | G 130.330 | | | |
| | TRANSPORTATION SYSTEMS ELECTRICIAN (CABLE SPICING, WELDING, AND NETA TESTING) 3RD SHIFT | 02/22/2016 | 07/31/2016** | 56.290 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 84.800 | E 113.790 | J 113.790 | G 142.780 | | | |
| K | TRANSPORTATION SYSTEMS TECHNICIAN (SECOND SHIFT) | 02/22/2016 | 07/31/2016** | 35.890 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 63.790 | E 82.270 | J 82.270 | G 100.750 | | | |
| K | TRANSPORTATION SYSTEMS TECHNICIAN (THIRD SHIFT) | 02/22/2016 | 07/31/2016** | 40.210 | 11.540 | H 14.170 | I - | 0.660 | 0.450 | 8.0 | 68.240 | E 88.940 | J 88.940 | G 109.650 | | | |
| | PLUMBER: | | | | | | | | | | | | | | | | |
| | PLUMBER, INDUSTRIAL AND GENERAL PIPEFITTER (2ND SHIFT) | 08/22/2015 | 06/30/2016** | L 49.370 | 7.110 | M 11.050 | N 3.030 | 2.550 | O 1.000 | 8.0 | 74.110 | P 99.510 | P 99.510 | 123.400 | | | |
| | SEWER AND STORM DRAIN PIPELAYER (2ND SHIFT) | 08/22/2015 | 06/30/2016** | L 38.080 | 7.110 | M 8.200 | N 1.000 | 2.170 | O 1.000 | 8.0 | 57.560 | 76.300 | Q 76.300 | 94.540 | | | |
| | SEWER AND STORM DRAIN PIPE TRADESMAN (2ND SHIFT) | 08/22/2015 | 06/30/2016** | L 19.620 | 7.110 | 0.380 | - | 1.600 | O 0.850 | 8.0 | 29.560 | 38.570 | Q 38.570 | 47.580 | | | |
| R | LANDSCAPE/IRRIGATION FITTER SECOND SHIFT | 08/22/2015 | 06/30/2016** | L 31.760 | 7.110 | M 11.050 | N 2.490 | 1.940 | O 0.800 | 8.0 | 55.150 | 72.280 | 72.280 | 88.160 | | | |
| | LANDSCAPE/IRRIGATION TRADESMAN SECOND SHIFT | 08/22/2015 | 06/30/2016* | L 15.400 | 2.000 | M 0.880 | - | 0.100 | O 0.750 | 8.0 | 19.130 | 26.830 | 26.830 | 34.530 | | | |
| S | REFRIGERATION SERVICE AND REPAIR (HVAC)-2ND SHIFT | 02/22/2016 | 09/04/2016* | A 48.530 | 10.520 | T 8.840 | I - | 1.300 | U 0.600 | 8.0 | 69.790 | 94.060 | V 94.060 | W 117.170 | | | |
| | FIRE SPKINKLE FITTER (PROJECTION AND CONTROL SYSTEMS, OVERHEAD AND UNDERGROUND)- 2ND SHIFT | 02/22/2016 | 08/31/2017* | 46.070 | 8.920 | 14.300 | I - | 1.350 | Y 0.550 | 8.0 | 71.190 | 94.220 | Z 94.220 | 117.260 | | | |

FOOTNOTES

GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: **2016-1** *Issue Date:* **08-22-2015** *Expire Date:* **06-30-2016** * *Page:* **1**

Craft/Classification: **Carpenter**

Area 1

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|---------|-------------------|----------|--------|-------------------|
| 1 | | 1,000 | \$16.160 | \$6.600 | | \$2.450 | \$.570 | \$.340 | \$26.120 |
| 2 | | 600 | \$20.200 | \$6.600 | | \$2.450 | \$.570 | \$.340 | \$30.160 |
| 3 | | 600 | \$24.240 | \$6.600 | | \$3.450 | \$.570 | \$.340 | \$35.200 |
| 4 | | 600 | \$26.260 | \$6.600 | \$4.410 | \$3.450 | \$.570 | \$.340 | \$41.630 |
| 5 | | 600 | \$28.280 | \$6.600 | \$4.410 | \$3.450 | \$.570 | \$.340 | \$43.650 |
| 6 | | 600 | \$30.300 | \$6.600 | \$4.410 | \$3.450 | \$.570 | \$.340 | \$45.670 |
| 7 | | 600 | \$32.320 | \$6.600 | \$4.410 | \$3.450 | \$.570 | \$.340 | \$47.690 |
| 8 | | 600 | \$36.360 | \$6.600 | \$4.410 | \$3.450 | \$.570 | \$.340 | \$51.730 |

Footnote(s):

Vacation--Includes an amount for Supplemental Dues.

Other--Includes an amount for Contract Administration, Cooperation Committee, Grievance, & Industry Advancement.

*No Predetermined Increases

Apprentice Prevailing Wage Rates are paid only to apprentices registered with the State of California, Division of Apprenticeship Standards, for work the registered apprentice performs in his/her specific craft or trade. You may check whether an Apprentices is registered at <http://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp>

GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016-1

Issue Date: 08-22-2015

Expire Date: 07-03-2016 **

Page: 1

Craft/Classification: **Cement Mason**

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|---------|-------------------|----------|---------|-------------------|
| 1 | 6 | | \$12.920 | \$7.520 | | \$2.080 | \$.600 | \$.270 | \$23.390 |
| 2 | 6 | | \$14.540 | \$7.520 | | \$2.080 | \$.600 | \$.270 | \$25.010 |
| 3 | 6 | | \$16.150 | \$7.520 | | \$2.080 | \$.600 | \$.270 | \$26.620 |
| 4 | 6 | | \$17.770 | \$7.520 | | \$6.520 | \$.600 | \$.270 | \$32.680 |
| 5 | 6 | | \$19.380 | \$7.520 | \$8.090 | \$6.520 | \$.600 | \$.270 | \$42.380 |
| 6 | 6 | | \$22.610 | \$7.520 | \$8.090 | \$6.520 | \$.600 | \$.270 | \$45.610 |
| 7 | 6 | | \$25.840 | \$7.520 | \$8.090 | \$6.520 | \$.600 | \$.270 | \$48.840 |
| 8 | 6 | | \$29.070 | \$7.520 | \$8.090 | \$6.520 | \$.600 | \$.270 | \$52.070 |

Footnote(s):

Vacation - includes an amount for supplemental dues.

Other - includes amounts for Industry Advancement, Contract Administration, and Labor-Management Cooperation Committee Trust.

JOURNEYMAN PREDETERMINED INCREASES:

Effective 7/4/2016: an increase of \$1.60 to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

Department of Industrial Relations
Office of the Director - Research Unit
P.O. Box 420603
San Francisco, CA 94142-0603

Apprentice Prevailing Wage Rates are paid only to apprentices registered with the State of California, Division of Apprenticeship Standards, for work the registered apprentice performs in his/her specific craft or trade. You may check whether an Apprentices is registered at <http://www.dir.ca.gov/DAS/appcertpw/AppCertSearch.asp>

GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: **2016-1** Issue Date: **02-22-2016** Expire Date: **07-31-2016** ** Page: **1**

Craft/Classification: **Electrician, Inside Wireman** Shift: **1**

County: Los Angeles

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|----------|-------------------|----------|---------|-------------------|
| 1 | 6 | | \$16.320 | \$10.540 | \$.490 | | \$.710 | \$.450 | \$28.510 |
| 2 | 6 | | \$18.360 | \$10.540 | \$.550 | | \$.710 | \$.450 | \$30.610 |
| 3 | 6 | | \$20.400 | \$11.540 | \$.700 | | \$.710 | \$.450 | \$40.800 |
| 4 | 6 | | \$22.440 | \$11.540 | \$.860 | | \$.710 | \$.450 | \$43.600 |
| 5 | 6 | | \$24.480 | \$11.540 | \$.920 | | \$.710 | \$.450 | \$46.410 |
| 6 | 6 | | \$26.520 | \$11.540 | \$ 1.010 | | \$.710 | \$.450 | \$49.230 |
| 7 | 6 | | \$28.560 | \$11.540 | \$ 1.070 | | \$.710 | \$.450 | \$52.040 |
| 8 | 6 | | \$30.600 | \$11.540 | \$ 1.150 | | \$.710 | \$.450 | \$54.850 |
| 9 | 6 | | \$32.640 | \$11.540 | \$ 1.230 | | \$.710 | \$.450 | \$57.660 |
| 10 | 6 | | \$34.680 | \$11.540 | \$ 1.300 | | \$.710 | \$.450 | \$60.460 |

Footnote(s):

Pension -- includes amounts for defined contribution and benefit plans for apprentices above Period 2. In addition, an amount equal to 3% of the basic hourly rate is added to the total hourly rate and overtime hourly rates for the National Employees Benefit Board. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

- 8/1/16 \$1.00 to be allocated to wages and/or fringes
- 1/30/17 \$1.00 to be allocated to wages and/or fringes .
- 7/31/17 \$0.05 to Training, \$0.05 to Other, and \$1.00 to be allocated to wages and/or fringes .
- 1/29/18 \$1.00 to be allocated to wages and/or fringes .
- 7/30/18 \$1.00 to be allocated to wages and/or fringes .
- 1/28/19 \$1.00 to be allocated to wages and/or fringes .

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

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 P.O. Box 420603
 San Francisco, CA 94142-0603

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: **2016-1** Issue Date: **02-22-2016** Expire Date: **07-31-2016** ** Page: **2**

Craft/Classification: **Electrician, Inside Wireman** Shift: **2**

County: Los Angeles

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|-----------|-------------------|----------|--------|-------------------|
| 1 | 6 | | \$19.140 | \$10.540 | \$.570 | | \$.710 | \$.450 | \$31.410 |
| 2 | 6 | | \$21.540 | \$10.540 | \$.650 | | \$.710 | \$.450 | \$33.890 |
| 3 | 6 | | \$23.930 | \$11.540 | \$.780 | | \$.710 | \$.450 | \$44.430 |
| 4 | 6 | | \$26.320 | \$11.540 | \$.850 | | \$.710 | \$.450 | \$47.600 |
| 5 | 6 | | \$28.720 | \$11.540 | \$.930 | | \$.710 | \$.450 | \$50.780 |
| 6 | 6 | | \$31.110 | \$11.540 | \$.10.140 | | \$.710 | \$.450 | \$53.950 |
| 7 | 6 | | \$33.500 | \$11.540 | \$.10.920 | | \$.710 | \$.450 | \$57.120 |
| 8 | 6 | | \$35.890 | \$11.540 | \$.11.700 | | \$.710 | \$.450 | \$60.290 |
| 9 | 6 | | \$38.290 | \$11.540 | \$.12.480 | | \$.710 | \$.450 | \$63.470 |
| 10 | 6 | | \$40.680 | \$11.540 | \$.13.260 | | \$.710 | \$.450 | \$66.640 |

Footnote(s):

Pension -- includes amounts for defined contribution and benefit plans for apprentices above Period 2. In addition, an amount equal to 3% of the basic hourly rate is added to the total hourly rate and overtime hourly rates for the National Employees Benefit Board. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

- 8/1/16 \$1.00 to be allocated to wages and/or fringes.
- 1/30/17 \$1.00 to be allocated to wages and/or fringes.
- 7/31/17 \$0.05 to Training, \$0.05 to Other, and \$1.00 to be allocated to wages and/or fringes.
- 1/29/18 \$1.00 to be allocated to wages and/or fringes.
- 7/30/18 \$1.00 to be allocated to wages and/or fringes.
- 1/28/19 \$1.00 to be allocated to wages and/or fringes.

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016-1 *Issue Date:* 02-22-2016 *Expire Date:* 07-31-2016 ** *Page:* 3

Craft/Classification: Electrician, Inside Wireman *Shift:* 3

County: Los Angeles

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|----------|-------------------|----------|--------|-------------------|
| 1 | 6 | | \$21.440 | \$10.540 | \$.640 | | \$.710 | \$.450 | \$33.780 |
| 2 | 6 | | \$24.130 | \$10.540 | \$.720 | | \$.710 | \$.450 | \$36.550 |
| 3 | 6 | | \$26.810 | \$11.540 | \$.7890 | | \$.710 | \$.450 | \$47.400 |
| 4 | 6 | | \$29.490 | \$11.540 | \$.8670 | | \$.710 | \$.450 | \$50.860 |
| 5 | 6 | | \$32.170 | \$11.540 | \$.9470 | | \$.710 | \$.450 | \$54.340 |
| 6 | 6 | | \$34.850 | \$11.540 | \$10.260 | | \$.710 | \$.450 | \$57.810 |
| 7 | 6 | | \$37.530 | \$11.540 | \$11.040 | | \$.710 | \$.450 | \$61.270 |
| 8 | 6 | | \$40.210 | \$11.540 | \$11.830 | | \$.710 | \$.450 | \$64.740 |
| 9 | 6 | | \$42.890 | \$11.540 | \$12.620 | | \$.710 | \$.450 | \$68.210 |
| 10 | 6 | | \$45.570 | \$11.540 | \$13.410 | | \$.710 | \$.450 | \$71.680 |

Footnote(s):

Pension -- includes amounts for defined contribution and benefit plans for apprentices above Period 2. In addition, an amount equal to 3% of the basic hourly rate is added to the total hourly rate and overtime hourly rates for the National Employees Benefit Board. Pursuant to Labor Code Sections 1773.1 and 1773.8 the amount paid for this employer payment may vary resulting in a lower taxable basic hourly wage rate, but the total hourly rates for straight time and overtime may not be less than the general prevailing rate of per diem wages.

Vacation/Holiday included in the Basic Hourly Rate.

Journeyman Predetermined Increases:

- 8/1/16 \$1.00 to be allocated to wages and/or fringes
- 1/30/17 \$1.00 to be allocated to wages and/or fringes .
- 7/31/17 \$0.05 to Training, \$0.05 to Other, and \$1.00 to be allocated to wages and/or fringes .
- 1/29/18 \$1.00 to be allocated to wages and/or fringes .
- 7/30/18 \$1.00 to be allocated to wages and/or fringes .
- 1/28/19 \$1.00 to be allocated to wages and/or fringes .

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016--1

Issue Date: 08-22-2015

Expire Date: 07-03-2016 **

Page: 1

Craft/Classification: Laborer

Counties: Imperial, Inyo, Kern, Los Angeles, Mono, Orange, Riverside, San Bernardino, San Luis Obispo, Santa Barbara, Ventura

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|---------|-------------------|----------|---------|-------------------|
| 1 | | 500 | \$17.200 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$27.690 |
| 2 | | 500 | \$18.910 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$29.400 |
| 3 | | 500 | \$20.630 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$31.120 |
| 4 | | 500 | \$24.070 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$34.560 |
| 5 | | 500 | \$27.510 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$38.000 |
| 6 | | 500 | \$29.230 | \$4.800 | \$1.300 | \$3.130 | \$.640 | \$.620 | \$39.720 |

Footnote(s):

Note: Apprentice rates are based on JM Laborer Group V rates.

Vacation -- Includes an amount for supplemental dues.

Other -- Includes amounts for Center for Contract Compliance, Industry Fund, and Administrative Trust Fund, Contract Administration Fund and Partnership for Jobs Industry Advancement Fund.

**Journeyman Predetermined Increases

Effective 7/4/2016: \$0.25 to Pension and 1.35 to be allocated to wages and/or employer payments

Effective 7/3/2017: \$0.25 to Pension and 1.40 to be allocated to wages and/or employer payments (See Important Notice issued 9/23/15)

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016-1 Issue Date: 08-22-2015 Expire Date: 06-30-2016 ** Page: 1

Craft/Classification: Plumber, Pipefitter, Steamfitter Shift: 1

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|---------|-------------------|----------|---------|-------------------|
| 1 | 12 | | \$19.320 | | \$.380 | \$1.540 | \$.780 | \$.880 | \$22.900 |
| 2 | 12 | | \$21.470 | \$7.110 | \$.380 | \$1.840 | \$1.800 | \$.940 | \$33.540 |
| 3 | 12 | | \$25.760 | \$7.110 | \$5.180 | \$2.140 | \$1.810 | \$.940 | \$42.940 |
| 4 | 12 | | \$30.050 | \$7.110 | \$5.560 | \$2.430 | \$1.860 | \$.940 | \$47.950 |
| 5 | 12 | | \$34.340 | \$7.110 | \$5.990 | \$2.730 | \$1.890 | \$.940 | \$53.000 |

Footnote(s):

Basic Hourly rate includes an amount withheld for Dues Check Off.

Dues Check off, First year apprentices, \$0.45 and \$0.65 = \$1.10

Dues Check off, Second year through fifth apprentices, \$0.95 and \$0.65 = \$1.60

Pension includes: amounts for Pension, National Pension and Retiree's Christmas Fund

Other includes amounts for PIPE, LMCC, and CED (Contractor Education Development Fund)

Predetermined Increases (Journeyman):

07-01-2016: \$2.02 to be allocated to wages and/or fringes.

07-01-2017: \$2.43 to be allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016--1 Issue Date: 08-22-2015 Expire Date: 06-30-2016 ** Page: 2

Craft/Classification: Plumber, Pipefitter, Steamfitter Shift: 2

Counties: Imperial, Los Angeles, Orange, Riverside, San Bernardino, San Diego, San Luis Obispo, Santa Barbara, Ventura

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|-----------------|-----------|-------------------|------------------|---------|-------------------|----------|---------|-------------------|
| 1 | 12 | | \$22.220 | | \$.380 | \$1.540 | \$.780 | \$.880 | \$25.800 |
| 2 | 12 | | \$24.680 | \$7.110 | \$.380 | \$1.840 | \$1.800 | \$.940 | \$36.750 |
| 3 | 12 | | \$29.520 | \$7.110 | \$5.180 | \$2.140 | \$1.810 | \$.940 | \$46.700 |
| 4 | 12 | | \$34.560 | \$7.110 | \$5.560 | \$2.430 | \$1.860 | \$.940 | \$52.460 |
| 5 | 12 | | \$39.500 | \$7.110 | \$5.990 | \$2.730 | \$1.890 | \$.940 | \$58.160 |

Footnote(s):

Basic Hourly rate includes an amount withheld for Dues Check Off.
Dues Check off, First year apprentices, \$0.45 and \$0.65 = \$1.10
Dues Check off, Second year through fifth apprentices, \$0.95 and \$0.65 = \$1.60

Pension includes: amounts for Pension, National Pension and Retiree's Christmas Fund

Other includes amounts for PIPE, LMCC, and CED (Contractor Education Development Fund)

These Rates are for SHIFT 2 PAY.

Predetermined Increases (Journeyman):

07-01-2016: \$2.02 to be allocated to wages and/or fringes.
07-01-2017: \$2.43 to be allocated to wages and/or fringes.

There may be corresponding predetermined increase(s) to the apprentices associated with this journeyman craft/classification. Please fax a request to (415) 703-4771 or send to the following address:

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: **2016-1** *Issue Date:* **02-22-2016** *Expire Date:* **09-04-2016** *

Page: **1**

Craft/Classification: **Plumber, Refrigeration Service and Repair (HVACR)**

Shift: **1**

Counties: Los Angeles, Orange

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|--------------------|--------------|----------------------|---------------------|---------|----------------------|----------|---------|----------------------|
| 1 | 12 | | \$21.230 | \$10.520 | \$1.020 | | \$.900 | \$.480 | \$34.150 |
| 2 | 12 | | \$25.470 | \$10.520 | \$1.270 | | \$.900 | \$.540 | \$38.700 |
| 3 | 12 | | \$29.720 | \$10.520 | \$1.270 | | \$.900 | \$.540 | \$42.950 |
| 4 | 12 | | \$33.960 | \$10.520 | \$1.520 | | \$.900 | \$.540 | \$47.440 |
| 5 | 12 | | \$38.210 | \$10.520 | \$1.770 | | \$.900 | \$.540 | \$51.940 |

Footnote(s):

Basic Hourly Rate--Includes amount withheld for dues check-off.

Vacation/Holiday--Included in straight-time hourly rate.

Pension--Includes amount for National Pension and 401A plan.

Other--Includes an amount for PIPE and Promotion Fund.

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GENERAL PREVAILING WAGE APPRENTICE RATES

APPRENTICE INFORMATION

Determination: 2016-1 Issue Date: 02-22-2016 Expire Date: 09-04-2016 * Page: 2

Craft/Classification: Plumber, Refrigeration Service and Repair (HVACR) Shift: 2

Counties: Los Angeles, Orange

| Period | Duration Months | OJT Hours | Hourly Basic Rate | Health & Welfare | Pension | Vacation /Holiday | Training | Other | Hourly Total Rate |
|--------|--------------------|--------------|----------------------|---------------------|---------|----------------------|----------|---------|----------------------|
| 1 | 12 | | \$24.250 | \$10.520 | \$1.010 | | \$.900 | \$.480 | \$37.160 |
| 2 | 12 | | \$29.090 | \$10.520 | \$1.260 | | \$.900 | \$.540 | \$42.310 |
| 3 | 12 | | \$33.940 | \$10.520 | \$1.260 | | \$.900 | \$.540 | \$47.160 |
| 4 | 12 | | \$38.780 | \$10.520 | \$1.510 | | \$.900 | \$.540 | \$52.250 |
| 5 | 12 | | \$43.640 | \$10.520 | \$1.760 | | \$.900 | \$.540 | \$57.360 |

Footnote(s):

Basic Hourly Rate--Includes amount withheld for dues check-off.

Vacation/Holiday--Included in straight-time hourly rate.

Pension--Includes amount for National Pension and 401A plan.

Other--Includes an amount for PIPE and Promotion Fund.

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PART G
SPECIFICATIONS

CITY TORRANCE

SPECIFICATIONS FOR: CHARLES H. WILSON PARK GAZEBO STRUCTURE



AUGUST 2016

BOA ARCHITECTURE
1511 Cota Avenue
Long Beach, CA 90813
Tel: (562) 912-7900

DOCUMENT 000010

TABLE OF CONTENTS

INTRODUCTORY INFORMATION

Document 000001 Project Title Page
Document 000010 Table of Contents

PROJECT MANUAL

- A. Notice of Inviting Bids
- B. Instruction to Bidders
- C. Special Provisions
- D. Bid Documents
- E. Documents to be Completed and Delivered to City as Part of Contract with City

SPECIFICATIONS

DIVISION 1 - GENERAL REQUIREMENTS – NOT USED

DIVISION 2 – EXISTING CONDITIONS
Section 024113 Selective Site Demolition

DIVISION 3 – CONCRETE – NOT USED

DIVISION 4 – MASONRY – NOT USED

DIVISION 5 - METALS
Section 055000 Metal Fabrications
Section 055213 Pipe Railings and Welded Wire Column Covers

DIVISION 6 – WOOD, PLASTICS, AND COMPOSITES – NOT USED

DIVISION 7 - THERMAL AND MOISTURE PROTECTION – NOT USED

DIVISION 8 – OPENINGS – NOT USED

DIVISION 9 – FINISHES – NOT USED

DIVISION 10 – SPECIALTIES – NOT USED

DIVISION 11 – EQUIPMENT – NOT USED

DIVISION 12 – FURNISHINGS – NOT USED

DIVISION 13 - SPECIAL CONSTRUCTION – NOT USED

DIVISION 14 - CONVEYING EQUIPMENT – NOT USED

DIVISION 21 – FIRE SUPPRESSION – NOT USED

DIVISION 22 – PLUMBING – NOT USED

DIVISION 23 – HEATING, VENTILATING, AND AIR CONDITIONING – NOT USED

DIVISION 25 – INTEGRATED AUTOMATION – NOT USED

DIVISION 26 – ELECTRICAL – SPECIFICATIONS ON PLANS, SEE SHEET E1

DIVISION 27 – COMMUNICATIONS – NOT USED

DIVISION 28 – ELECTRONIC SAFETY AND SECURITY – NOT USED

DIVISION 31 – EARTHWORK

Section 311000 Site Clearing

DIVISION 32 – EXTERIOR IMPROVEMENTS

Section 321313 Concrete Paving

DIVISION 33 – UTILITIES – NOT USED

END OF DOCUMENT

000010 - 2

**SECTION 024113
SELECTIVE SITE DEMOLITION**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Demolition and removal of pavements.
 - 2. Disconnecting and capping or removal of utilities it found during removal of pavement.
 - 3. Disconnecting and capping and or removal of lawn irrigation system.
 - 4. Disposal of demolished materials.

- B. Related Documents: The Contract Documents, as defined in Section 010100-Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.

- C. Related Sections:
 - 1. Section 311000- Site Clearing: Clearing outside periphery of structures.

1.2 QUALITY ASSURANCE

- A. Regulatory Requirements:
 - 1. Conform to applicable local code for safety of adjacent buildings and structures, dust control and runoff control.
 - 2. Obtain required permits and licenses from authorities having jurisdiction. Pay associated fees including disposal charges.
 - 3. Notify affected utility companies before starting work and comply with utility company requirements.
 - 4. Do not close or obstruct roadways, sidewalks or fire hydrants without permits.
 - 5. Barricade and mark hazards as necessary.
 - 6. Conform to applicable regulatory procedures when discovering hazardous or contaminated materials. Notify the City immediately upon discovery of hazardous or contaminated materials. Do not commence removals, remediation, or abatement without authorization from the City.

1.3 PROJECT CONDITIONS

- A. Existing Conditions:
 - 1. Burning or fires of any nature not permitted.
 - 2. Explosives are not permitted on site.

**SECTION 024113
SELECTIVE SITE DEMOLITION**

PART 2 - PRODUCTS

2.1 FILL MATERIALS

- A. Not Applicable.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Site Verification of Conditions: Verify that field measurements, surfaces, substrates, and conditions are as required, and ready to receive Work.
 - 1. Locate existing utilities.
- B. Report in writing to the City prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.
- C. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to City.

3.2 PREPARATION

- A. Provide, erect and maintain barrier fencing to maintain a secure work site. Coordinate with City.
- B. Provide, erect, and maintain erosion control devices, dust control measures, temporary barriers, and security devices at locations indicated on Drawings.
- C. Protect appurtenances and structures which are not indicated to be demolished during the Work of this Section, repair damage caused by demolition operations at no additional cost to the City.
- D. If found mark location of utilities. Protect and maintain, in safe and operable condition, utilities to remain.
- E. Clear areas around items and structures indicated to be demolished as specified in Section 311000.

3.3 CONSTRUCTION

**SECTION 024113
SELECTIVE SITE DEMOLITION**

- A. Demolition Requirements:
1. Conduct demolition to minimize interference with adjacent structures, pavements and landscape.
 2. Stop operations immediately if adjacent structures appear to be in danger. Notify the City immediately. Do not resume operations until directed by the City.
 3. Conduct operations with minimum interference to public or private access. Maintain access and egress at all times.
 4. Sprinkle soil and demolition work area with water to minimize dust. Provide hoses and water connections for this purpose. Comply with AQMD standards.
 5. Comply with governing regulations pertaining to environmental protection.
 6. Clean adjacent areas of dust, dirt, and debris caused by demolition operations. Return adjacent areas to its condition prior to start of work.
- B. Demolition:
1. Notify City inhabitants of intent to demolish two weeks prior to demolition and verify property is vacated prior to starting demolition.
- C. Filling Voids:
1. Completely fill below grade areas and voids existing or resulting from demolition.
 2. Remove standing water, frost, frozen, or unsuitable material, trash, and debris from areas to be filled before fill placement.
 3. Grade surface to match adjacent grades and to provide flow of surface drainage after fill placement and compaction.
- D. Disposal of Demolished Materials:
1. Collect, recycle, reuse and dispose of demolished materials as specified in Project Manual.

END OF SECTION

**SECTION 055000
METAL FABRICATIONS**

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Steel Framing for Trellis Support.
2. Miscellaneous Framing and Supports.
3. Metal Trellis Panels for Roof and Fencing.

1.2 REFERENCES

A. American Institute of Steel Construction (AISC):

1. Specifications for the Design, Fabrication and Erection of Structural Steel for Building

B. American National Standards Institute (ANSI):

1. ANSI A14.3, "Ladders, Fixed, Safety Requirements."

C. American Society for Testing and Materials (ASTM):

1. ASTM A36, "Structural Steel."
2. ASTM A53, "Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless."
3. ASTM A123, "Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products."
4. ASTM A153, "Zinc Coating (Hot-Dip) on Iron and Steel Hardware."
5. ASTM A307, "Carbon Steel Bolts and Studs, 60,000 psi Tensile Strength."
6. ASTM A500, "Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes."
7. ASTM A568, "Specification for General Requirements for Steel Sheet, Carbon, and High-Strength, Low Alloy Hot-Rolled and Cold Rolled."
8. ASTM A627, "Specification for Homogeneous Tool-Resisting Steel Bars for Security Applications."
9. ASTM A780, "Practice for Repair of Damaged and Uncoated Areas of Hot-Dipped Galvanized Coatings."
10. ASTM B221, "Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tube."

D. American Welding Society (AWS):

1. AWS D1.1 - Structural Welding Code.

E. Steel Structures Painting Council Specification (SSPC):

1. Steel Structures Painting Manual.

**SECTION 055000
METAL FABRICATIONS**

1.3 SUBMITTALS

A. Submittal Procedures:

- 1. Product Data:**
 - a. Submit complete descriptive data for all stock items.
- 2. Shop Drawings:**
 - a. Prepare Shop Drawings under seal of professional structural engineer registered in California for products requiring structural engineering.
 - b. Include profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners and accessories, erection drawings, elevations, welded connections using standard AWS welding symbol with net weld lengths.
 - c. Take field measurements prior to preparation of shop drawings and fabrication when possible. Allow for trimming and fitting whenever taking of field measurements before fabrication might delay construction.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Steel plates, angles, and other structural shapes shall conform to ASTM A36.**
- B. Steel pipe shall conform to ASTM A53, Grade B, Schedule 40.**
- C. Galvanized steel pipe and tube shall conform to ASTM A53.**
- D. Steel Tubing shall conform to ASTM A500.**
- E. Sheet Steel, Galvanized: ASTM A446.**
- F. Sheet and Strip Steel, Hot Rolled: ASTM A568.**
- G. Welding Materials: AWS D1.1; type required for materials being welded.**
- H. Anchors**
 - 1. Threaded Type Concrete Inserts: Galvanized malleable iron or cast steel capable of receiving 3/4 inch diameter machine bolts.**
 - 2. Slotted Type Concrete Inserts: Welded box type fabricated with minimum 1/8 inch thick galvanized pressed steel plate with slot to receive 3/4 inch diameter square head bolt and knockout cover.**
 - 3. Expansion Shield for Masonry Anchorage: FS FF-2-325.**

**SECTION 055000
METAL FABRICATIONS**

- I. Fasteners
 - 1. Bolts, Nuts and Washers for Exterior Locations: ASTM A307, galvanized in accordance with ASTM A153.
 - 2. Bolts, Nuts and Washers for Interior Locations: ASTM A307, Grade A, regular hexagon head.
 - 3. Bolts, Round Head: ANSI B-18.5
 - 4. Wood Screws, Flat Head Carbon Steel: ANSI B-18.6.1.
 - 5. Plain Washers, Helical Spring Type Carbon Steel: FS FF-W-84.

- J. Primers:
 - 1. Primer for Painting: One of following:
 - a. Tnemec, No. 99 red primer.
 - b. Chessman-Elliot Company: Ceco No. 15 Primox.
 - c. Rowe Products, Inc.: No. 7-C-19.
 - d. Or approved equal as permitted in Section 016000 – Product Substitutions.
 - 2. Touch-Up Primer for Galvanized Surfaces: FS TT-P-641.

2.2 FABRICATION

- A. Fabricate steel items according to approved shop drawings and to applicable portions of AISC Specifications. Conceal welds where possible; grind exposed welds smooth and flush with adjacent finished surface. Ease exposed edges to small uniform radius.
- B. Pre-assemble products in shop to greatest extent possible. Disassemble units to extent necessary for shipping and handling. Clearly mark units for re-assemble and installation.
- C. For exposed to view fabrications, use materials which are smooth and free of surface blemishes including pitting, seams marks, roller marks, roller trade names and roughness. Remove blemishes by grinding or by welding and grinding, prior to cleaning, treating and application of surface finishes including zinc coating.
- D. Fabricate items with joints tightly fitted and secured.
- E. Fit and shop assemble in largest practical sections for delivery to Project site.
- F. Exposed Mechanical Fastenings: Flush countersunk screws or bolts; unobtrusively located; consistent with design of structure, except where specifically noted otherwise.

**SECTION 055000
METAL FABRICATIONS**

- G. Make exposed joints butt tight, flush and hairline.
- H. Fabricate anchorage and related components of same material and finish as metal fabrication, unless indicated otherwise.

2.3 ROUGH HARDWARE

- A. Furnish bent or otherwise custom fabricated bolts, plates, anchors, hangers, dowels, and other miscellaneous steel and iron shapes as required for framing and supporting woodwork, and for anchoring or securing woodwork to concrete or other structures. Straight bolts and other stock rough hardware items are specified in Division 6 sections.
- B. Fabricate items to sizes, shapes, and dimensions required. Furnish malleable-iron washers for heads and nuts which bear on wood structural connections; elsewhere, furnish steel washers.

2.4 ROOF & SCREEN TRELLIS PANELS

- A. System: Subject to the performance and design requirement specified herein, shall be manufactured from the following materials:
- B. Panel Framework:
 - 1. Panel joint extrusion manufactured per ASTM B221 to manufacturer's standard, size and shape as shown on the drawings.
 - 2. Mesh, infill panels to be 12 ga. carbon steel, expanded mesh, with opening sizes per drawings and shall be powder coated to match structural members.
 - 3. Frame channel, to be formed per ASTM F2408 with minimum yield of 50,000. Panels to be galvanized for material galvanized after forming, and the Frame is to receive a conversion coating and a clear inorganic coating for better adhesion of final color coating, and for material that is galvanized prior to forming.—members with greater than 7ga wall thickness shall be formed per ASTM A53, A500 or A501, grade B, with a minimum yield of 46,000 psi, and shall be hot dip galvanized in accordance with ASTM A123.
 - 4. Posts to be cut, sized, and located as indicated in the certified and approved shop drawings.
- C. Size: Panel sizes shall be as shown on the drawings.

**SECTION 055000
METAL FABRICATIONS**

2.5 POWDER COATER FACTORY FINISH

- A. Coating Material: Posts, post caps, rails, brackets, joint extrusions and mesh with frame shall be finished with a factory applied TGIC polyester powder coating of the "Super-Durable" class. Powder coated finish shall meet or exceed the following performance criteria:
 - 1. ASTM B117 Salt Spray Resistance, 5% salt spray at 95° F and 95% relative humidity, 1,000 hour test, single scribe, 1/8" creep and/or #8 blisters is failure.
 - 2. ASTM D3359, Measuring Adhesion by Tape Test, Method B, coating retention of not less than 95%.
 - 3. ASTM D2794, Impact Resistance, minimum resistance to impact not less than 120 in. /lb.
 - 4. ASTM D3363, Film Hardness by Pencil Test, minimum hardness: 2H.
 - 5. ASTM D4141, Solar Concentration Exposure Testing, Method C (Equivalent to EMMAQUA NTW), coating must test to a minimum of 50% Gloss Retention at 1,400 MJ/m² with no film failure, chalking, cracking or checking and no more than 10% fading.

- B. Thickness: Film thickness of 2-4 mils as measured by manufacturer's standard powder coat measurement and inspection procedures.

- C. Pretreatment: The roof and fence mesh and framework shall be prepared using a pre-treatment cleaning system to remove foreign material and to properly prepare the surface to achieve the coating system requirements specified above.

- D. Curing: Heat cure in accordance with powder manufacturer's prescribed cure schedule to properly crosslink and bond finish to metal substrate.

- E. Color: To be determined.

2.6 MISCELLANEOUS STEEL TRIM

- A. Provide shapes and sizes indicated for profiles shown. Unless otherwise indicated, fabricate units from structural steel shapes, plates, and steel bars, with continuously welded joints and smooth exposed edges. Use concealed field splices wherever possible. Provide cutouts, fittings, and anchorages as required for coordination of assembly and installation with other work.

- B. Galvanize miscellaneous framing and supports in all locations.

**SECTION 055000
METAL FABRICATIONS**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
- B. Report in writing to the Engineer prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected and approved by the Engineer.
- C. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the City.

3.2 INSTALLATION

- A. Fastening to In-Place Construction: Provide anchorage devices and fasteners where necessary for securing miscellaneous metal fabrications to in-place construction; include threaded fasteners for concrete and masonry inserts, toggle bolts, through-bolts, lag bolts, wood screws, and other connectors as required.
- B. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installation of miscellaneous metal fabrications. Set metal fabrication accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.
- C. Provide temporary bracing or anchors in formwork for items that are to be built into concrete masonry or similar construction.
- D. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints, but cannot be shop welded because of shipping size limitations. Do not weld, cut or abrade the surfaces of exterior units which have been hot-dip galvanized after fabrication, and are intended for bolted or screwed field connections.
- E. Handle fence components to protect finish coating from any scuffs, abrasion of other damage during installation. Excessive damage to factory applied coatings will be cause for rejection.

**SECTION 055000
METAL FABRICATIONS**

- F. Field Welding: Comply with AWS Code for procedures of manual shielded metal-arc welding, appearance and quality of welds made, methods used in correcting welding work, and the following:
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
 2. Obtain fusion without undercut or overlap.
 3. Remove welding flux immediately.
 4. At exposed connections, finish exposed welds and surfaces smooth and blended so that no roughness shows after finishing and contour of welded surface matches those adjacent.

3.3 ADJUSTING AND CLEANING

- A. Touch-Up Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with same material as used for shop painting to comply with SSPC-PA 1 requirements for touch-up of field painted surfaces.
1. Apply by brush or spray to provide a minimum dry film thickness of 2.0 mils.
- B. For galvanized surfaces clean welds, bolted connections and abraded areas and apply galvanizing repair paint to comply with ASTM A780.

END OF SECTION

**SECTION 055213
PIPE RAILINGS AND WELDED WIRE COLUMN COVERS**

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Steel pipe handrails.
 - 2. Concrete Columns – welded wire panel system.

- B. Related Documents: The Contract Documents, as defined in Section 011000 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents.

1.2 REFERENCES

- A. American Society for Testing and Materials (ASTM):
 - 1. ASTM A 53 - Specification for Hot-Dipped, Zinc-coated Welded and Seamless Steel Pipe.
 - 2. ASTM 123 - Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
 - 3. ASTM E 894 - Test Method for Anchorage of Permanent Metal Railing Systems and Rails for Buildings.
 - 4. ASTM E 935 - Test Methods for Performance of Permanent Metal Railing Systems and Rails for Buildings.
 - 5. ASTM E 985 - Permanent Metal Railing Systems and Rails for Buildings.

1.3 SYSTEM DESCRIPTION

- A. Pipe Railings Design Requirements:
 - 1. Design, engineer, fabricate and install handrails and railing systems to comply with requirements of ASTM E 985 for structural performance based on testing performed in accordance with ASTM E 894 and E 935.
 - 2. Railing assembly, wall rails, and attachments to comply with local code requirements and to resist minimum 250 pound lateral at any point without damage or permanent set.

- B. Welded Wire Column Covers
 - 1. Acceptable Manufacturer – Green Screen, 1743 La Cienega Blvd. Long Angeles, CA 90035. Tel. 800-450-3494. www.greenscreen.com

SECTION 055213
PIPE RAILINGS AND WELDED WIRE COLUMN COVERS

1.4 SUBMITTALS

- A. Submittal Procedures:
 - 1. Shop Drawings: Indicate profiles, sizes, connection attachments, anchorage, size and type of fasteners, and accessories.
 - 2. Assurance/Control Submittals:
 - a. Certificates: Manufacturer's certificate that Products meet or exceed specified requirements.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Pipe: ASTM A 53, Grade B Schedule 80.
- B. Rails and Posts: Steel pipe; with welded joints, of sizes and shapes as indicated on Drawings.
- C. Fittings: Elbows, T-shapes, wall brackets, escutcheons; machined steel.
- D. Mounting on Concrete Floor: Steel sleeves, sized to receive railing post with 1/4 inch clearance.
- E. Mounting on Masonry or Concrete Walls: Brackets with anchors for building in masonry.
- F. Mounting on Stud Walls: Brackets and anchor plates, predrilled to receive bolts.
- G. Splice Connectors: Steel threaded collars.
- H. Welded Wire Mesh Panels
 - 1. Panels shall be rigid, three dimensional welded wire grid fabricated of 14 gage galvanized steel wire.
 - a. Metallic-Coated Steel Wire: Welded-wire, hot-dip galvanized in accordance with ASTM A641.
 - 2. Face Grid: Wires shall be welded at each intersection to form a 2 x 2 inch face grid on the front and back of panels.
 - 3. Trusses: Face grids shall be separated by bent wire trusses spaced at 2-inch centers and welded to front and back face grids at each truss apex.
 - 4. Thickness: 3 inches.
 - 5. Length and Width: As indicated on the Drawings.
 - 6. Tolerance: 1/8 inch in width and 1/8 inch in length.

I. ACCESSORIES

SECTION 055213
PIPE RAILINGS AND WELDED WIRE COLUMN COVERS

1. TRIM
 - a. Fabricate from 20-gage ASTM A879 galvanized steel.
 - b. Types:
 - 1) Channel Trim: Thickness of panel x ½ inch legs.
 - 2) Angle Trim: ½ inch x ½ inch legs.
 - c. Locations:
 - 1) As indicated on the Drawings.
2. Clips and Straps: Provide manufacturer's standard types of clips and straps suitable for mounting conditions. Fabricate from ASTM A879 galvanized steel. Adjustable clips shall have ¼ inch diameter 18-8 stainless steel bolt, washer, and nut.
3. Plastic Spacers: Provide ½ inch thick black Ultra High Molecular Weight polyethylene (UHMW) washers [to hold clips away from mounting surface].

2.2 FABRICATION OF RAILS

- A. Fit and shop assemble sections in largest practical sizes, for delivery to site and installation.
- B. Supply components required for secure anchorage of handrails and railings.
- C. Fully weld joints. Grind exposed welds smooth and flush with adjacent surfaces.
- D. Wake exposed joint butt tight, flush, and hairline.
- E. Accurately form components required for anchorage of railings to each other and to building structure.
- F. Prime railings which will be exposed.

2.3 FABRICATION OF WIRE MESH PANELS

- A. Cut to size.
- B. Weld trim to panels and grind smooth exterior surfaces of welds.
- C. Curved Panels: All curved panels shall be fabricated in the factory using approved "Cut-to-Curve" or "Crimped-to-Curve" procedures as recommended by manufacturer for diameter of curve and conditions of use prior to application of powder coat finish to ensure that all wire edges are coated and protected. The use of "Cut-to-Curve" or "Crimped-to-Curve" fabrication technique is dependent on the specific radius and the direction of the curve relative to that flat panel layout.

**SECTION 055213
PIPE RAILINGS AND WELDED WIRE COLUMN COVERS**

2.4 FINISH

- A. At Building Exterior: Rails and Welded Wire Column Covers
 - 1. Galvanizing: ASTM A123; provide minimum 2.0 ounces per square foot.
 - 2. Touch-Up Primer for Galvanized Surfaces: SSPC 20 Type I Inorganic zinc rich.

- B. At wire mesh panels
 - 1. Metal Components (except fasteners) shall receive commercial grade finish system after fabrication.
 - 2. Finish system:
 - a. Pretreat with general purpose, alkaline, water based cleaner / degreaser applied at 240 degrees F.
 - b. Prime with fusion bond epoxy powder coat.
 - c. Topcoat with [TGIC] polyester or polyester-urethane powder coat with a minimum total dry film thickness of not less than [6mils (0.15mm)].
 - 3. Salt Spray Resistance Finish shall remain rust free when tested 1680 hours in accordance with ASTM B117.
 - 4. Finish and Color: [Textured] Green. Provide sample.
 - 5. Touch-up paint: Provide high quality, exterior-grade spray paint suitable for conditions of use.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
 - 1. Verify field dimensions prior to shop fabrication.

- B. Report in writing to State Representative prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's published instructions.

- B. Install components plumb and level, accurately fitted, free from distortion or defects.

- C. Anchor railings to structure with anchors in conformance with ASTM E 985.

- D. Field weld anchors as indicated on Drawings. Touch-up welds with primer. Grind welds smooth.

**SECTION 055213
PIPE RAILINGS AND WELDED WIRE COLUMN COVERS**

- E. Insert railing posts in sleeves and pack sleeves with non-shrink grout.
- F. Top of handrail grasping surface shall be mounted between 34" to 38" above the nosing of the treads or ramp surface.
- G. The Handgrip portion of handrails for stairs and ramps shall not be less than 1 ¼" nor more than 1 ½" I cross-sectional nominal dimension or shape providing an equivalent gripping surface. Handrail projecting from a wall shall have a space of 1 ½" (38 mm) between the wall and the handrail. The maximum projection of handrails into the required clear width of a ramp at the handrail height shall be 3 ½" on each side. CBC Sections 1133B.4.2.6 and 1133B.5.5.1.
- H. All surfaces and welded joints of the grip portion of handrails shall be ground smooth with no sharp corners. Gripping surfaces (top or sides) shall be uninterrupted by newel posts. Other construction elements or obstructions. Edges shall have a minimum radius of 1/8".
- I. Any wall or other surface adjacent to handrail shall be free of sharp or abrasive elements. CBC Sections 1133B.4.2.6 and 1133B.5.5.1.

3.3 CONSTRUCTION

- A. Site Tolerances:
 - 1. Maximum Variation From Plumb: 1/4 inch.
 - 2. Maximum Offset From True Alignment: 1/4 inch.
 - 3. Maximum Out-of-Position: 1/4 inch.

3.4 FIELD QUALITY CONTROL

- A. Inspect railings and handrail installation and attachment to structure.

END OF SECTION

**SECTION 311000
SITE CLEARING**

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:

1. Cleaning site of debris, grass, trees and other plant life in preparation for site or building excavation Work.
2. Protection of existing structures, trees or vegetation indicated to remain.
3. Stripping topsoil from areas indicated.

B. Related Documents: The Contract Documents, as defined in Section 010100 - Summary of Work, apply to the Work of this Section. Additional requirements and information necessary to complete the Work of this Section may be found in other Documents. See Project Manual for recycling and construction materials requirements.

1.2 PROJECT CONDITIONS OR SITE CONDITIONS

A. Existing Conditions:

1. Notify the City of variations to conditions or discrepancies in actual site conditions prior to start of site preparation Work.
2. Traffic: Conduct operations and removal of debris with minimum interference to roads, streets, walks, and other adjacent facilities. Do not close or obstruct streets, walks or other facilities without permission from authorities having jurisdiction.
3. Protections: Provide protection for safe passage of persons around area of site preparation. Take precautions and conduct operations to prevent injury to adjacent buildings, structures, other facilities, and persons.
 - a. Provide interior and exterior shoring, bracing, or support to prevent movement, settlement or collapse of structures to be demolished and adjacent facilities to remain.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Concrete Paving
- B. Plant & Sod Materials
- C. Miscellaneous

**SECTION 311000
SITE CLEARING**

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Verify that field measurements, surfaces, substrates and conditions are as required, and ready to receive Work.
 - 1. Locate existing utilities.
 - 2. Verify that survey benchmark and intended elevations for the Work are as indicated and are not located in an area that may be damaged.
 - 3. Verify that existing plant life and clearing limits are clearly tagged, identified and marked in such a manner as to insure their safety throughout construction operations.

- B. Report in writing to the City prevailing conditions that will adversely affect satisfactory execution of the Work of this Section. Do not proceed with Work until unsatisfactory conditions have been corrected and approved by the Engineer.

- C. By beginning Work, Contractor accepts conditions and assumes responsibility for correcting unsuitable conditions encountered at no additional cost to the City.

3.2 PREPARATION

- A. Provide temporary erosion control systems as indicated on Drawings or as directed by the Engineer to protect project site and adjacent properties and water resources from erosion and sedimentation.

3.3 CLEARING

- A. Clear areas required for access to site and execution of Work.

3.4 TOPSOIL EXCAVATION

- A. Strip 6" minimum of concrete paving and base material from areas that are indicated to receive new paving, or re-graded to depth that prevents contact with underlying subsoil or unsuitable material. Notify the City before stripping within root systems.

- B. Topsoil: Organic surface soil found in depth not less than 6 inches.

**SECTION 311000
SITE CLEARING**

- C. Satisfactory Topsoil: Soil reasonably free of subsoil, clay lumps, stones and other objects over 2 inches in diameter, weeds, roots, and other unsuitable material.
- D. Stockpile topsoil where indicated on Drawings or directed by the Engineer. Construct stockpile areas to positively drain surface water. Cover stockpile areas as required to prevent windblown dust. Dispose of unsuitable topsoil off-site as specified clearing, unless directed otherwise by the Engineer. Dispose of excess topsoil off-site as specified for clearing, unless directed otherwise by the Engineer. Do not create dust hazards.

3.5 REMOVAL

- A. Remove debris, rock, extracted plant life, paving, and other structures indicated on Drawings as specified in Section 024113.
 - 1. Collect, recycle, reuse, and dispose of demolished materials as specified in Project Manual – Part C Special Provisions Para. #17

3.6 PROTECTION

- A. Protect existing streets, structures, and utilities.
- B. Protect trees, plant growth, and features indicated to remain.

END OF SECTION

