

City of San Diego, solely in its capacity as the designated Successor Agency  
to the Redevelopment Agency of the City of San Diego, a former public  
body, corporate and politic, herein referred to as

# Successor Agency

ORIGINAL

CONTRACTOR'S NAME: Whillock Contracting, Inc.  
ADDRESS: P.O. Box 2322, La Mesa, CA 91943  
TELEPHONE NO.: 619-579-0700 FAX NO.: 619-579-0955  
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@sandiego.gov  
Phone No. (619) 533-3481, Fax No. (619) 533-3633  
G. Sorenson / H. McLintock / LJI

## CONTRACT DOCUMENTS FOR



### Former Valencia Park Library (101 50th Street) Demolition

VOLUME 1 OF 2

BID NO.: K-16-6469-DBB-1  
SAP NO. (WBS/IO/CC): 24005705  
CLIENT DEPARTMENT: 2117  
COUNCIL DISTRICT: 4  
PROJECT TYPE: BD

**THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**


- THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- PREVAILING WAGE RATES: STATE  FEDERAL
- APPRENTICESHIP

**BID DUE DATE:**

**2:00 PM  
AUGUST 6, 2015  
CITY OF SAN DIEGO  
PUBLIC WORKS CONTRACTS  
1010 SECOND AVENUE, 14<sup>th</sup> FLOOR, MS 614C  
SAN DIEGO, CA 92101**

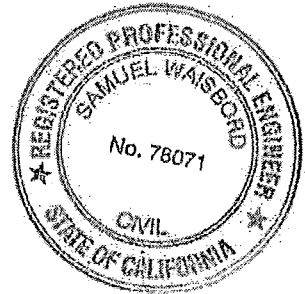
# ENGINEER OF WORK

The technical content of the engineering Specifications and Special Provisions contained herein has been prepared by or under the direction of the following Professional Engineer :

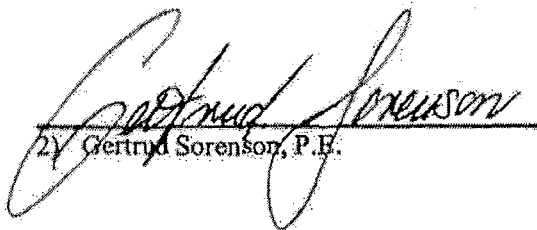
  
\_\_\_\_\_  
1) Samuel Waisbord, P.E.

7/1/2015  
Date

Seal:



The contractual content of the engineering Specifications and Special Provisions contained herein has been reviewed by the following Professional Engineer:

  
\_\_\_\_\_  
2) Gertrud Sorenson, P.E.

7/1/2015 Seal:  
Date



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# CITY OF SAN DIEGO, CALIFORNIA

## NOTICE INVITING BIDS

1. **RECEIPT AND OPENING OF BIDS:** Bids will be received at the Public Works Contracts at the location, time, and date shown on the cover of these specifications for performing work on **Former Valencia Park Library (101 50th Street) Demolition** (Project).
2. **SUMMARY OF WORK:** The Work involves furnishing all labor, materials, equipment, services, and other incidental works and appurtenances for the construction of the Project as described in ATTACHMENT A.
3. **BIDS ARE PUBLIC RECORDS:** Upon receipt by the City, Bids shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the Bid. General references to sections of the California Public Records Act (PRA) will not suffice. If the Contractor does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Contractor will hold the City harmless for release of this information.
4. **SUBCONTRACTING PARTICIPATION PERCENTAGES:**
  - 4.1. The City has incorporated voluntary subcontractor participation percentage to enhance competition and maximize subcontracting opportunities as follows.
  - 4.2. The following voluntary subcontractor participation percentage for DBE, DVBE, WBE, MBE, SLBE, and ELBE certified Subcontractors shall apply to this contract:

**Total voluntary subcontractor participation percentage for this project is 14.2%.**
  - 4.3. For additional Funding Agency Equal Opportunity Contracting Program requirements and provisions, see Attachment C.
5. **PRE-BID MEETING:**
  - 5.1. There will be a Pre-Bid Meeting to discuss the scope of the Project, bidding requirements, pre-qualification process, and Equal Opportunity Contracting Program requirements and reporting procedures in the Public Works Contracts, Conference Room at 1010 Second Avenue, 14<sup>th</sup> Floor, San Diego, CA 92101 **at 10:00 A.M., on July 21, 2015.**
  - 5.2. All potential bidders are encouraged to attend.
  - 5.3. To request a copy of the agenda on an alternative format, or to request a sign language or oral interpreter for this meeting, call the Public Works Contracts at (619) 533-3450 at least 5 Working Days prior to the Pre-Bid Meeting to ensure availability.

6. **CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM:**
- 6.1. **Prior** to the Award of the Contract or each Task Order, you and your Subcontractors and Suppliers must register with the City’s web-based vendor registration and bid management system, BidsOnline™ hosted by PlanetBids System. For additional information go to:
- <http://www.sandiego.gov/purchasing/bids-contracts/vendorreg.shtml>.
- 6.2. The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible bidder / proposer.
7. **JOINT VENTURE CONTRACTORS:** Provide a copy of the Joint Venture agreement and the Joint Venture license to the City within 10 Working Days after receiving the Contract forms. See 2-1.1.2, “Joint Venture Contractors” in The WHITEBOOK for details.
8. **PREVAILING WAGE RATES:** Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
- 8.1. **Compliance with Prevailing Wage Requirements.** Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
- 8.1.1. Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at <http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm>. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
- 8.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or

more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

- 8.2. Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed.
- 8.3. Payroll Records.** Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
- 8.3.1.** For contracts entered into on or after April 1, 2015, Contractor and their subcontractors shall furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- 8.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 8.5. Working Hours.** Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on design professionals and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections 1810 through 1815.
- 8.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 8.7. Labor Code Section 1861 Certification.** Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

**8.8. Labor Compliance Program.** The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Equal Opportunity Contracting Department at 619-236-6000.

**8.9. Contractor and Subcontractor Registration Requirements.** This project is subject to compliance monitoring and enforcement by the DIR. As of March 1, 2015, no contractor or subcontractor may be listed on a bid or proposal for a public works project unless registered with the DIR pursuant to Labor Code section 1725.5. As of April 1, 2015, a contractor or subcontractor shall not be qualified to bid on, be listed in a bid proposal, or enter into any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5. By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration to the City upon request.

**8.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.

**9. INSURANCE REQUIREMENTS:**

**9.1.** All certificates of insurance and endorsements required by the contract are to be provided upon issuance of the City's Notice of Intent to Award letter.

**9.2.** Refer to sections 7-3, "LIABILITY INSURANCE", and 7-4, "WORKERS' COMPENSATION INSURANCE" of the Supplementary Special Provisions (SSP) for the insurance requirements which must be met.

**10. PREQUALIFICATION OF CONTRACTORS:**

**10.1.** Contractors submitting Bid must be pre-qualified for the total amount proposed, inclusive of all alternate items prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified will be deemed **non-responsive** and ineligible for award. Complete information and links to the online prequalification application are available at:

<http://www.sandiego.gov/cip/bidopps/prequalification.shtml>

**10.2.** The completed application must be submitted online to the Public Works Contracts, Prequalification Program no later than 2 weeks prior to the bid opening. For additional information or the answer to questions about the prequalification program, contact David Stucky at 619-533-3474 or [dstucky@sanidiego.gov](mailto:dstucky@sanidiego.gov).

**10.3.** As a result of the City’s fiduciary requirement to safeguard vendor data, City staff will not be able to provide information regarding contractors’ prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on [PlanetBids™](#).

**11. REFERENCE STANDARDS:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction (“The GREENBOOK”)	2012	PITS070112-01
City of San Diego Standard Specifications for Public Works Construction (“The WHITEBOOK”)*	2012	PITS070112-02
City of San Diego Standard Drawings*	2012	PITS070112-03
Caltrans Standard Specifications	2010	PITS070112-04
Caltrans Standard Plans	2010	PITS070112-05
California MUTCD	2012	PITS070112-06
City Standard Drawings - Updates Approved For Use (when specified)*	Varies	Varies
Standard Federal Equal Employment Opportunity Construction Contract Specifications and the Equal Opportunity Clause Dated 09-11-84	1984	769023
NOTE: *Available online under Engineering Documents and References at: <a href="http://www.sandiego.gov/publicworks/edocref/index.shtml">http://www.sandiego.gov/publicworks/edocref/index.shtml</a>		

**12. CITY'S RESPONSES AND ADDENDA:** The City at its option, may respond to any or all questions submitted in writing, via letter, or FAX in the form of an addendum. No oral comment shall be of any force or effect with respect to this solicitation. The changes to the Contract Documents through addendum are made effective as though originally issued with the Bid. The Bidders shall acknowledge the receipt of Addenda on the form provided for this purpose in the Bid.

**13. CITY'S RIGHTS RESERVED:** The City reserves the right to cancel the Notice Inviting Bids at any time, and further reserves the right to reject submitted Bids, without giving any reason for such action, at its sole discretion and without liability. Costs incurred by the Bidder(s) as a result of preparing Bids under the Notice Inviting Bids shall be the sole responsibility of each bidder. The Notice Inviting Bids creates or imposes no obligation upon the City to enter a contract.

**14. CONTRACT PRICING FORMAT:** This solicitation is for a Lump Sum contract with Unit Price provisions as set forth in the Bid Proposal Form(s), Volume 2.



- 15. SUBMITTAL OF “OR EQUAL” ITEMS:** See Section 4-1.6, “Trade Names or Equals” in The WHITEBOOK and as amended in the SSP.
- 16. AWARD PROCESS:**
- 16.1.** The Award of this contract is contingent upon the Contractor’s compliance with all conditions precedent to Award.
- 16.2.** Upon acceptance of a Bid, the City will prepare contract documents for execution within approximately 21 days of the date of the Bid opening and award the Contract approximately within 7 days of receipt of properly executed Contract, bonds, and insurance documents.
- 16.3.** This contract will be deemed executed, and effective, only upon the signing of the Contract by the Mayor or designee of the City.
- 17. SUBCONTRACT LIMITATIONS:** The Bidder’s attention is directed to Standard Specifications for Public Works Construction, Section 2-3, “SUBCONTRACTS” in The GREENBOOK and as amended in the SSP which requires the Contractor to self-perform not less than the specified amount. Failure to comply with this requirement shall render the bid **non-responsive** and ineligible for award.
- 18. AVAILABILITY OF PLANS AND SPECIFICATIONS:** Contract Documents may be obtained by visiting the City’s website: <http://www.sandiego.gov/cip/>. Plans and Specifications for this contract are also available for review in the office of the City Clerk or Public Works Contracts.
- 19. SUBMISSION OF QUESTIONS:**
- 19.1.** The Director (or designee), of the Public Works Department is the officer responsible for opening, examining, and evaluating the competitive Bids submitted to the City for the acquisition, construction and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:
- Public Works Contracts  
1010 Second Avenue, 14<sup>th</sup> Floor  
San Diego, California, 92101  
Attention: [Contract Specialist listed on the front cover hereof]
- OR:
- Email address of the Contract Specialist listed on the front cover hereof.
- 19.2.** Questions received less than 14 days prior to the date for opening of Bids may not be considered.
- 19.3.** Clarifications deemed by the City to be material shall be issued by Addenda and uploaded to the City’s online bidding service.

- 19.4. Only questions answered by formal written addenda will be binding. Oral and other interpretations or clarifications will be without legal effect. It is the Bidder's responsibility to become informed of any Addenda that have been issued and to include all such information in its Bid.
20. **ELIGIBLE BIDDERS:** No person, firm, or corporation shall be allowed to make, file, or be interested in more than one (1) Bid for the same work unless alternate Bids are called for. A person, firm or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not hereby disqualified from submitting a sub-proposal or quoting prices to other Bidders or from submitting a Bid in its own behalf. Any Bidder who submits more than one bid will result in the rejection of all bids submitted.
21. **SAN DIEGO BUSINESS TAX CERTIFICATE:** The Contractor and Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor and submit to the Contract Specialist upon request or as specified in the Contract Documents. Tax Identification numbers for both the Bidder and the listed Subcontractors must be submitted on the City provided forms with the Notice Inviting Bids and Contract forms.
22. **PROPOSAL FORMS:** Bid shall be made only upon the Bidding Documents i.e., Proposal form attached to and forming a part of the specifications. The signature of each person signing shall be in longhand.
- 22.1. Bidder shall complete and submit all pages in the "Bidding Document" Section (see Volume 2) as their Bid per the schedule given under "Required Documents Schedule," (see Volume 1). Bidder is requested to retain for their reference other portions of the Contract Documents that are not required to be submitted with the Bid. The entire specifications for the bid package do not need to be submitted with the bid.
- 22.2. The City may require any Bidder to furnish a statement of experience, financial responsibility, technical ability, equipment, and references.
- 22.3. Bids and certain other forms and documents as specified in the Volume 2 of 2 of the Contract Documents shall be enclosed in a sealed envelope and shall bear the title of the work and name of the Bidder and the appropriate State Contractors License designation which the Bidder holds.
- 22.4. Bids may be withdrawn by the Bidder prior to, but not after, the time fixed for opening of Bids.
23. **AWARD OF CONTRACT OR REJECTION OF BIDS:**
- 23.1. This contract may be awarded to the lowest responsible and reliable Bidder.
- 23.2. Bidders shall complete the entire Bid schedule (also referred to as "schedule of prices" or Proposal form). Incomplete price schedules will be rejected as being non-responsive.

- 23.3. The City reserves the right to reject any or all Bids, and to waive any informality or technicality in Bids received and any requirements of these specifications as to bidding procedure.
- 23.4. Bidders will not be released on account of their errors of judgment. Bidders may be released only upon receipt by the City from the Bidder within 3 Working Days, excluding Saturdays, Sundays, and state holidays, after the opening of Bids, of written notice which includes proof of honest, credible, clerical error of material nature, free from fraud or fraudulent intent, and of evidence that reasonable care was observed in the preparation of the Bid.
- 23.5. A bidder who is not selected for contract award may protest the award of a contract to another bidder by submitting a written protest in accordance with section 22.3017 of the San Diego Municipal Code.
- 23.6. The City of San Diego will not discriminate with regard to race, religious creed, color, national origin, ancestry, physical handicap, marital status, sex or age, in the award of contracts.
- 23.7. Each Bid package properly executed as required by these specifications shall constitute a firm offer, which may be accepted by the City within the time specified in the Proposal.
- 23.8. The City reserves the right to evaluate all Bids and determine the lowest Bidder on the basis of any proposed alternates, additive items or options, at its discretion that will be disclosed in the Volume 2 of 2.

**24. BID RESULTS:**

- 24.1. The Bid opening by the City shall constitute the public announcement of the Apparent Low Bidder. In the event that the Apparent Low Bidder is subsequently deemed non-responsive or non-responsible, a public announcement will be posted in the City's web page <http://www.sandiego.gov/cip/index.shtml>, with the name of the newly designated Apparent Low Bidder.
- 24.2. To obtain Bid results, either attend Bid opening, review the results on the City's web site, or provide a self-addressed, stamped envelope, referencing Bid number, and Bid tabulation will be mailed to you upon verification of extensions. Bid results cannot be given over the telephone.

**25. THE CONTRACT:**

- 25.1. The Bidder to whom award is made shall execute a written contract with the City of San Diego and furnish good and approved bonds and insurance certificates specified by the City within 14 days after receipt by Bidder of a form of contract for execution unless an extension of time is granted to the Bidder in writing.

- 25.2. If the Bidder takes longer than 14 days to fulfill these requirements, then the additional time taken shall be added to the Bid guarantee. The Contract shall be made in the form adopted by the City, which includes the provision that no claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the City for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
- 25.3. If the Bidder to whom the award is made fails to enter into the contract as herein provided, the award may be annulled and the Bidder's Guarantee of Good Faith will be subject to forfeiture. An award may be made to the next lowest responsible and reliable Bidder who shall fulfill every stipulation embraced herein as if it were the party to whom the first award was made.
- 25.4. Pursuant to the San Diego City Charter section 94, the City may only award a public works contract to the lowest responsible and reliable Bidder. The City will require the Apparent Low Bidder to (i) submit information to determine the Bidder's responsibility and reliability, (ii) execute the Contract in form provided by the City, and (iii) furnish good and approved bonds and insurance certificates specified by the City within 14 Days, unless otherwise approved by the City, in writing after the Bidder receives notification from the City, designating the Bidder as the Apparent Low Bidder and formally requesting the above mentioned items.
- 25.5. The award of the Contract is contingent upon the satisfactory completion of the above mentioned items and becomes effective upon the signing of the Contract by the Mayor or designee. If the Apparent Low Bidder does not execute the Contract or submit required documents and information, the City may award the Contract to the next lowest responsible and reliable Bidder who shall fulfill every condition precedent to award. A corporation designated as the Apparent Low Bidder shall furnish evidence of its corporate existence and evidence that the officer signing the Contract and bond for the corporation is duly authorized to do so.
26. **EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK:** The Bidder shall examine carefully the Project Site, the Plans and Specifications, other materials as described in the Special Provisions, Section 2-7, and the proposal forms (e.g., Bidding Documents). The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work, the quantities of materials to be furnished, and as to the requirements of the Bidding Documents Proposal, Plans, and Specifications.
27. **CITY STANDARD PROVISIONS:** This contract is subject to the following standard provisions. See The WHITEBOOK for details.
- 27.1. The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- 27.2. The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- 27.3. The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.

- 27.4. The City of San Diego’s Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- 27.5. Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- 27.6. The City’s Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- 27.7. The City’s Information Security Policy (ISP) as defined in the City’s Administrative Regulation 90.63.

**28. PRE-AWARD ACTIVITIES:**

- 28.1. The selected contractor by the City to execute a contract for this Work shall provide the information required within the time specified in “Required Documents,” of this bid package. Failure to provide the information within the time specified may result in the Bid being rejected as **non-responsive**.
- 28.2. If the Bid is rejected as non-responsive, the selected contractor by the City to execute a contract for this Work shall forfeit the required Bid. The decision that the selected contractor by the City to execute a contract for this Work is non-responsive for failure to provide the information required within the time specified shall be at the sole discretion of the City.

**29. REDEVELOPMENT-FUNDED PROJECTS:** This contract is funded with monies presently available or anticipated to become available, to the Successor Agency and may become subject to termination or suspension for loss of project funds. See 6-5.9, “Successor’s Agency Right to Terminate or Suspend for Loss of Project Funds” for more details.

**30. REQUIRED DOCUMENT SCHEDULE:**

- 30.1. The Bidder’s attention is directed to the City’s Municipal Code §22.0807(e), (3)-(5) for important information regarding grounds for debarment for failure to submit required documentation.
- 30.2. The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City’s web site at:

<http://www.sandiego.gov/eoc/forms/index.shtml>

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
1.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Bid
2.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Non-collusion Affidavit to be Executed By Bidder and Submitted with Bid under 23 USC 112 and PCC 7106
3.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Contractors Certification of Pending Actions
4.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Equal Benefits Ordinance Certification of Compliance
5.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA35 - List of Subcontractors
6.	BID SUBMITTAL DATE/TIME	ALL BIDDERS	Form AA40 - Named Equipment/Material Supplier List
7.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Names of the principal individual owners of the Apparent Low Bidder
8.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	If the Contractor is a Joint Venture: <ul style="list-style-type: none"> <li>• Joint Venture Agreement</li> <li>• Joint Venture License</li> </ul>
9.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Form BB05 - Work Force Report
10.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Agreement
11.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contract Forms - Payment and Performance Bond
12.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Certificates of Insurance and Endorsements
13.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - Drug-Free Workplace
14.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractor Certification - American with Disabilities Act

ITEM	WHEN DUE	FROM	DOCUMENT TO BE SUBMITTED
15.	WITHIN 10 WORKING DAYS AFTER RECEIPT BY BIDDER OF CONTRACT FORMS	APPARENT LOW BIDDER	Contractors Standards - Pledge of Compliance

**CONTRACT FORMS**  
**AGREEMENT**



# CONTRACT FORMS

---

## CONSTRUCTION CONTRACT

This contract is made and entered into between THE CITY OF SAN DIEGO, SOLELY IN ITS CAPACITY AS THE DESIGNATED SUCCESSOR AGENCY OF THE REDEVELOPMENT AGENCY OF THE CITY OF SAN DIEGO, A FORMER PUBLIC BODY, CORPORATE AND POLITIC, herein called "Successor Agency", and Whillock Contracting, Inc., herein called "Contractor" for construction of Former Valencia Park Library (101 50th Street) Demolition; Bid No. K-16-6469-DBB-1, in the amount of One Hundred Six Thousand Five Hundred Seventy Seven Dollars and 00/100 (\$106,577.90), which is comprised of the Base Bid only.

IN CONSIDERATION of the payments to be made hereunder and the mutual undertakings set forth herein, the parties hereto agree as follows:

1. The following are incorporated into this contract as though fully set forth herein:
  - (a) The attached Faithful Performance and Payment Bonds.
  - (b) The attached Proposal included in the Bid documents by the Contractor.
  - (c) Reference Standards listed in the Notice Inviting Bids and the Supplementary Special Provisions (SSP).
  - (d) That certain documents entitled **Former Valencia Park Library (101 50th Street) Demolition**, on file in the office of the Public Works Department as Document No. **24005705**, as well as all matters referenced therein.
2. The Contractor shall perform and be bound by all the terms and conditions of this contract and in strict conformity therewith shall perform and complete in a good and workmanlike manner **Former Valencia Park Library (101 50th Street) Demolition; Bid Number K-16-6469-DBB-1**, San Diego, California.
3. For such performances, the Successor Agency shall pay to Contractor the amounts set forth at the times and in the manner and with such additions or deductions as are provided for in this contract, and the Contractor shall accept such payment in full satisfaction of all claims incident to such performances.
4. No claim or suit whatsoever shall be made or brought by Contractor against any officer, agent, or employee of the Successor Agency for or on account of anything done or omitted to be done in connection with this contract, nor shall any such officer, agent, or employee be liable hereunder.
5. This contract is effective as of the date that the designee of the Successor Agency signs the agreement.

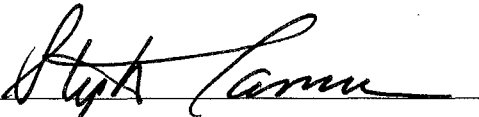
**CONTRACT FORMS (continued)**

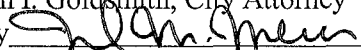
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IN WITNESS WHEREOF, this Agreement is signed by the Successor Agency, acting by and through its Mayor or designee, pursuant to Municipal Code 22.3102 authorizing such execution.

**THE CITY OF SAN DIEGO SOLELY IN ITS  
CAPACITY AS THE DESIGNATED  
SUCCESSOR AGENCY OF THE  
REDEVELOPMENT AGENCY OF THE  
CITY OF SAN DIEGO, A FORMER PUBLIC  
BODY, CORPORATE AND POLITIC**

**APPROVED AS TO FORM**

By 

Jan I. Goldsmith, City Attorney  
By 

Print Name: Stephen Samara,  
Principal Contract Specialist

Print Name: Mark W. Merco  
Deputy City Attorney

Date: 9-14-15

Date: 9/15/15

**CONTRACTOR**

By 

Print Name: Tory M. Whillock

Title: Secretary

Date: August 20, 2015

City of San Diego License No.: B2007003179

State Contractor's License No.: 572217

**CONTRACT FORMS**  
**ATTACHMENTS**

ORIGINAL

**CONTRACT FORMS ATTACHMENTS**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**  
Issued in Three (3) Original Identical Counterparts

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**FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:**

Whillock Contracting, Inc., a corporation, as principal, and Travelers Casualty and Surety Company of America, a corporation authorized to do business in the State of California, as Surety, hereby obligate themselves, their successors and assigns, jointly and severally, to The City of San Diego acting as the Successor Agency of the Redevelopment Agency of the City of San Diego in the sum of **One Hundred Six Thousand Five Hundred Seventy Seven Dollars and 00/100 (\$106,577.90)**, for the faithful performance of the annexed contract, and in the sum of **One Hundred Six Thousand Five Hundred Seventy Seven Dollars and 00/100 (\$106,577.90)**, for the benefit of laborers and materialmen designated below.

**Conditions:**

If the Principal shall faithfully perform the annexed contract **Former Valencia Park Library (101 50th Street) Demolition; Bid Number K-16-6469-DBB-1**, San Diego, California then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Chapter 3 of Division 5 of Title I of the Government Code of the State of California or under the provisions of Section 3082 et seq. of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

**CONTRACT FORMS ATTACHMENTS (continued)**  
**PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND**

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The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

Dated August 22, 2015

Approved as to Form

Whillock Contracting, Inc.

Principal

By 

Tory M Whillock, Secretary

Printed Name of Person Signing for Principal

Jan I. Goldsmith, City Attorney

By 

Deputy City Attorney

Travelers Casualty and Surety Company of America

Surety

By 

Attorney-in-fact

Jerry E Mosier, Attorney-in-Fact

c/o Mosier Insurance Agency, PO Box 2149

Local Address of Surety

Lakeside, CA 92040

Local Address (City, State) of Surety

Approved:

By 

Stephen Samara, Principal Contract Specialist

(619) 749-1102

Local Telephone No. of Surety

Premium \$ 1,066.00

Bond No. 106312192



POWER OF ATTORNEY

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company

Attorney-In Fact No. 229473

Certificate No. 006212878

KNOW ALL MEN BY THESE PRESENTS: That Farmington Casualty Company, St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company are corporations duly organized under the laws of the State of Connecticut, that Fidelity and Guaranty Insurance Company is a corporation duly organized under the laws of the State of Iowa, and that Fidelity and Guaranty Insurance Underwriters, Inc., is a corporation duly organized under the laws of the State of Wisconsin (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint

Jerry E. Mosier

of the City of San Carlos, State of California, their true and lawful Attorney(s)-in-Fact, each in their separate capacity if more than one is named above, to sign, execute, seal and acknowledge any and all bonds, recognizances, conditional undertakings and other writings obligatory in the nature thereof on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this 8th day of July, 2015.

Farmington Casualty Company
Fidelity and Guaranty Insurance Company
Fidelity and Guaranty Insurance Underwriters, Inc.
St. Paul Fire and Marine Insurance Company
St. Paul Guardian Insurance Company

St. Paul Mercury Insurance Company
Travelers Casualty and Surety Company
Travelers Casualty and Surety Company of America
United States Fidelity and Guaranty Company



State of Connecticut
City of Hartford ss.

By: [Signature]
Robert L. Raney, Senior Vice President

On this the 8th day of July, 2015, before me personally appeared Robert L. Raney, who acknowledged himself to be the Senior Vice President of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

In Witness Whereof, I hereunto set my hand and official seal. My Commission expires the 30th day of June, 2016.



[Signature]
Marie C. Tetreault, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company, which resolutions are now in full force and effect, reading as follows:

**RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

**FURTHER RESOLVED**, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

**FURTHER RESOLVED**, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

**FURTHER RESOLVED**, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, Kevin E. Hughes, the undersigned, Assistant Secretary, of Farmington Casualty Company, Fidelity and Guaranty Insurance Company, Fidelity and Guaranty Insurance Underwriters, Inc., St. Paul Fire and Marine Insurance Company, St. Paul Guardian Insurance Company, St. Paul Mercury Insurance Company, Travelers Casualty and Surety Company, Travelers Casualty and Surety Company of America, and United States Fidelity and Guaranty Company do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 22nd day of August, 20 15.

WARNING: THIS POWER OF ATTORNEY IS INVALID WITHOUT THE RED BORDER

*Kevin E. Hughes*  
Kevin E. Hughes, Assistant Secretary



To verify the authenticity of this Power of Attorney, call 1-800-421-3880 or contact us at [www.travelersbond.com](http://www.travelersbond.com). Please refer to the Attorney-In-Fact number, the above-named individuals and the details of the bond to which the power is attached.

## ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of San Diego )

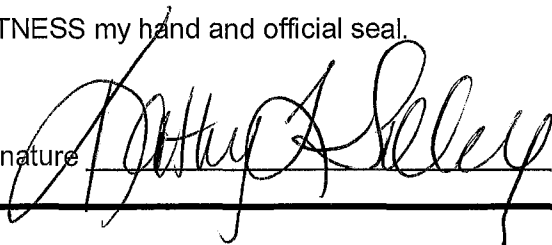
On 8/27/2015 before me, Kathy L. Tilley, Notary Public  
(insert name and title of the officer)

personally appeared Jerry E. Mosier and Tory M. Whillock,  
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature



(Seal)





## CONTRACTOR CERTIFICATION

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### DRUG-FREE WORKPLACE

**PROJECT TITLE:** Former Valencia Park Library (101 50th Street) Demolition

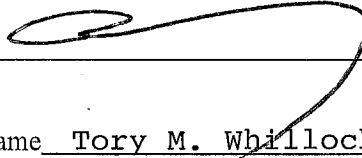
I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 7-13.3, "Drug-Free Workplace", of the project specifications, and that;

Whillock Contracting, Inc.

(Name under which business is conducted)

has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

Signed



Printed Name Tory M. Whillock

Title Secretary

## CONTRACTOR CERTIFICATION

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### AMERICAN WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

**PROJECT TITLE:** Former Valencia Park Library (101 50th Street) Demolition

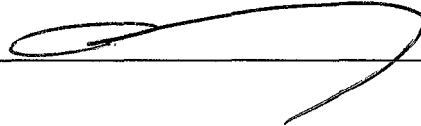
I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the American With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 7-13.2, "American With Disabilities Act", of the project specifications, and that;

Whillock Contracting, Inc.

(Name under which business is conducted)

has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

Signed



Printed Name Tory M. Whillock

Title Secretary

## CONTRACTOR CERTIFICATION

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### CONTRACTOR STANDARDS – PLEDGE OF COMPLIANCE

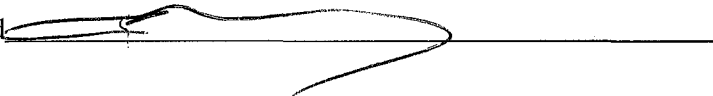
**PROJECT TITLE:** Former Valencia Park Library (101 50th Street) Demolition

I declare under penalty of perjury that I am authorized to make this certification on behalf of Whillock Contracting, Inc., as Contractor, that I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 7-13.4, ("Contractor Standards"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors whose subcontracts are greater than \$50,000 in value has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

Dated this 20th Day of August, 2015.

Signed



Printed Name Tory M. Whillock

Title Secretary

**AFFIDAVIT OF DISPOSAL**

**WHEREAS**, on the \_\_\_\_\_ DAY OF \_\_\_\_\_, the undersigned entered into and executed a contract with the Successor Agency, for:

**Former Valencia Park Library (101 50th Street) Demolition**  
(Name of Project)

as particularly described in said contract and identified as Bid No. **K-16-6469-DBB-1**; SAP No. (WBS/IO/CC) **24005705**; and **WHEREAS**, the specification of said contract requires the Contractor to affirm that "all brush, trash, debris, and surplus materials resulting from this project have been disposed of in a legal manner"; and **WHEREAS**, said contract has been completed and all surplus materials disposed of::

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**NOW, THEREFORE**, in consideration of the final payment by the Successor Agency to said Contractor under the terms of said contract, the undersigned Contractor, does hereby affirm that all surplus materials as described in said contract have been disposed of at the following location(s)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

and that they have been disposed of according to all applicable laws and regulations.

Dated this \_\_\_\_\_ DAY OF \_\_\_\_\_, \_\_\_\_\_.

\_\_\_\_\_  
by \_\_\_\_\_ Contractor

**ATTEST:**

State of \_\_\_\_\_  
County of \_\_\_\_\_

On this \_\_\_\_\_ DAY OF \_\_\_\_\_, 2\_\_\_\_\_, before the undersigned, a Notary Public in and for said County and State, duly commissioned and sworn, personally appeared \_\_\_\_\_ known to me to be the \_\_\_\_\_ Contractor named in the foregoing Release, and whose name is subscribed thereto, and acknowledged to me that said Contractor executed the said Release.

Notary Public in and for said County and State

# ATTACHMENTS

**ATTACHMENT A**  
**SCOPE OF WORK**

## SCOPE OF WORK

1. **SCOPE OF WORK:** This project is a demolition for the building at 101 50<sup>th</sup> Street, a site known as the former Valencia Park Library. The building is an approximately 4,000 square-foot one-story commercial building structure built in 1960. The Successor Agency used Central Imperial bond funds for the public purpose to implement the Imperial Avenue Corridor Master Plan, and acquire and remove a long vacant, dilapidated building and to provide public improvements and development opportunities that would be a catalyst for revitalizing this corridor.
  - 1.1. The Work shall be performed in accordance with:
    - 1.1.1. The Notice Inviting Bids and Appendix F and G which includes Exhibits numbered D-1 and D-2, inclusive.
2. **CONSTRUCTION COST:** The Successor Agency's estimated construction cost for this contract is **\$156,900**.
3. **LOCATION OF WORK: The location of the Work is as follows:**

Northeast corner of Imperial Avenue and 50th Street. See Appendix D, Location Map.
4. **CONTRACT TIME:** The Contract Time for completion of the Work shall be **50 Working Days**.
5. **CONTRACTOR'S LICENSE CLASSIFICATION:** In accordance with the provisions of California Law, the Contractor shall possess valid appropriate license(s) at the time that the Bid is submitted. Failure to possess the specified license(s) shall render the Bid as **non-responsive** and shall act as a bar to award of the Contract to any Bidder not possessing required license(s) at the time of Bid.
  - 5.1. The Successor Agency has determined the following licensing classification for this contract:
    - CLASS A

**ATTACHMENT B**  
**INTENTIONALLY LEFT BLANK**



**ATTACHMENT C**  
**EQUAL OPPORTUNITY CONTRACTING PROGRAM**

## **EQUAL OPPORTUNITY CONTRACTING PROGRAM REQUIREMENTS**

1. To The WHITEBOOK, Chapter 10, Sections D and E, DELETE each in its entirety, and SUBSTITUTE with the following:

### **D. CITY'S EQUAL OPPORTUNITY COMMITMENT.**

#### **1. Nondiscrimination in Contracting Ordinance.**

1. The Contractor, Subcontractors and Suppliers shall comply with requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

The Contractor shall not discriminate on the basis of race, gender, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers. The Contractor shall provide equal opportunity for subcontractors to participate in subcontracting opportunities. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment, or other sanctions.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. Disclosure of Discrimination Complaints. As part of its Bid or Proposal, the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.
3. Upon the City's request, the Contractor agrees to provide to the City, within 60 days, a truthful and complete list of the names of all Subcontractors and Suppliers that the Contractor has used in the past 5 years on any of its contracts that were undertaken within San Diego County, including the total dollar amount paid by the Contractor for each subcontract or supply contract.
4. The Contractor further agrees to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. The Contractor understands and agrees that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against the Contractor up to and including contract termination, debarment and other sanctions for violation of the provisions of the Nondiscrimination in Contracting Ordinance. The Contractor further understands and agrees that the procedures, remedies and sanctions provided for in the Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

**E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.**

1. The Contractor, Subcontractors and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

The Contractor shall not discriminate against any employee or applicant for employment on any basis prohibited by law. Contractor shall provide equal opportunity in all employment practices. Prime Contractor shall ensure their subcontractors comply with this program. Nothing in this section shall be interpreted to hold a prime contractor liable for any discriminatory practice of its subcontractors.

The Contractor shall include the foregoing clause in all contracts between the Contractor and Subcontractors and Suppliers.

2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05), within 10 Working Days after receipt by the Bidder of Contract forms to the City for approval as specified in the Notice of Intent to Award letter from the City.
3. If a Work Force Report is submitted, and the City determines there are under-representations when compared to County Labor Force Availability data, the selected Bidder shall submit an Equal Employment Opportunity Plan.
4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:
  1. The Contractor shall maintain a working environment free of discrimination, harassment, intimidation and coercion at all sites and in all facilities at which the Contractor's employees are assigned to work.
  2. The Contractor reviews its EEO Policy, at least annually, with all on-site supervisors involved in employment decisions.
  3. The Contractor disseminates and reviews its EEO Policy with all employees at least once a year, posts the policy statement and EEO posters on all company bulletin boards and job sites, and documents every dissemination, review and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
  4. The Contractor reviews, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintains written documentation of these reviews.
  5. The Contractor discusses its EEO Policy Statement with subcontractors with whom it anticipates doing business, includes the EEO Policy Statement in its subcontracts, and provides such documentation to the City upon request.

6. The Contractor documents and maintains a record of all bid solicitations and outreach efforts to and from subcontractors, contractor associations and other business associations.
7. The Contractor disseminates its EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit, maintains files documenting these efforts, and provides copies of these advertisements to the City upon request.
8. The Contractor disseminates its EEO Policy to union and community organizations.
9. The Contractor provides immediate written notification to the City when any union referral process has impeded the Contractor's efforts to maintain its EEO Policy.
10. The Contractor maintains a current list of recruitment sources, including those outreaching to people of color and women, and provides written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
11. The Contractor maintains a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
12. The Contractor encourages all present employees, including people of color and women employees, to recruit others.
13. The Contractor maintains all employment selection process information with records of all tests and other selection criteria.
14. The Contractor develops and maintains documentation for on-the-job training opportunities, participates in training programs, or both for all of its employees, including people of color and women, and establishes apprenticeship, trainee, and upgrade programs relevant to the Contractor's employment needs.
15. The Contractor conducts, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourages all employees to seek and prepare appropriately for such opportunities.
16. The Contractor ensures the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

**ATTACHMENT D**  
**INTENTIONALLY LEFT BLANK**

**ATTACHMENT E**  
**SUPPLEMENTARY SPECIAL PROVISIONS**

## **SUPPLEMENTARY SPECIAL PROVISIONS**

The following Supplementary Special Provisions (SSP) modifies the following documents:

- 1) Standard Specifications for Public Works Construction (The GREENBOOK) currently in effect.
  - 2) The City of San Diego Standard Specifications for Public Works Construction (The WHITEBOOK).
- 

### **SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS**

#### **1-2 TERMS AND DEFINITIONS.**

**Normal Working Hours.** To the City Supplement, ADD the following:

The Normal Working Hours are **8:30 AM to 5:00 PM.**

### **SECTION 2 - SCOPE AND CONTROL OF WORK**

#### **2-3.2 Self Performance.** DELETE in its entirety and SUBSTITUTE with the following:

1. You must perform, with your own organization, Contract work amounting to at least 50% of the base bid alone or base bid and any additive or deductive alternate(s) that together when added or deducted form the basis of award.
2. The self performance percentage requirement will be waived for contracts when a “B” License is required or allowed.

#### **2-5.3.1 General.** To the City Supplement, ADD the following

7. For products for which an AML is available, products listed in the AML shall be used. A submittal review will be conducted for products not identified on an AML on a case-by-case basis when:
  - a) The product type or category is not in the AML.
  - b) The AML does not list at least two available manufacturers of the product.
  - c) The material or manufacturer listed in the AML is no longer available. Documentation to substantiate the product is no longer available or in production is required as part of the submittal.

In the case of conducting a submittal review when required by the Plans or Special Provisions, or when requested by the Engineer, all submittals shall be accompanied by the City's submittal form.

The Product Submittal Form is available for download at:

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

**2-9.1 Permanent Survey Markers.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

Pursuant to Division 3, Chapter 15 of the Business and Professions Code, the Contractor shall not disturb survey monuments that "control the location of subdivisions, tracts, boundaries, roads, streets, or highways, or provide horizontal or vertical survey control" until they have been tied out by a Registered Land Surveyor or Registered Civil Engineer authorized to practice land surveying within the State of California.

The Contractor shall submit to the Engineer a minimum of 7 Days prior to the start of the Work a list of controlling survey monuments which may be disturbed. The Agency (or the owner on a Private Contract) will:

- a) set survey points outside the affected work area that reference and locate each controlling survey monument that may be disturbed,
- b) file a Corner Record or Record of Survey with the County Surveyor after setting the survey points to be used for re-establishment of the disturbed controlling survey monuments, and
- c) file a Corner Record of Record of Survey with the County Surveyor after re-establishment of the disturbed controlling survey monuments.

**2-15 TECHNICAL STUDIES AND DATA.** To the City Supplement, ADD the following:

5. In preparation of the Contract Documents, the designer has relied upon the following reports of explorations and tests at the Work Site:
  1. Limited Hazardous Materials & Construction Consulting for Renovation/Demolition dated July 10, 2008 by MTGL, Inc..
  2. Structural Calculations dated July 7, 2014 by Ori2 Structural Engineers.
6. Refer to Appendix A and Appendix E for the reports listed above.



## SECTION 4 - CONTROL OF MATERIALS

**4-1.3.6 Preapproved Materials.** To the City Supplement, ADD the following:

3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.

**4-1.6 Trade Names or Equals.** ADD the following:

You must submit your list of proposed substitutions for “an equal” (“or equal”) item(s) **no later than 5 Working Days after the determination of the Apparent Low Bidder** and on the City’s Product Submittal Form available at.

<http://www.sandiego.gov/publicworks/edocref/index.shtml>

## SECTION 7 - RESPONSIBILITIES OF THE CONTRACTOR

**7-3 LIABILITY INSURANCE.** DELETE in its entirety and SUBSTITUTE with the following:

The insurance provisions herein must not be construed to limit your indemnity obligations contained in the Contract.

**7-3.1 Policies and Procedures.**

1. You must procure the insurance described below, at its sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
3. You must maintain this insurance for the duration of this contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this contract. Your liabilities under the Contract, e.g., your indemnity obligations, is not deemed limited to the insurance coverage required by this contract.
4. Payment for insurance is included in the various items of Work as bid by you, and except as specifically agreed to by the City in writing, you are not entitled to any additional payment. Do not begin any work under this contract until you have provided and the City has approved all required insurance.
5. Policies of insurance must provide that the City is entitled to 30 days (10 days for cancellation due to non-payment of premium) prior written notice of cancellation or non-renewal of the policy. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage or to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

**7-3.2 Types of Insurance.**

**7-3.2.1 Commercial General Liability Insurance.**

1. Commercial General Liability Insurance must be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.
2. The policy must cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
3. There must be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You must maintain the same or equivalent insurance for at least 10 years following completion of the Work.
4. All costs of defense must be outside the policy limits. Policy coverage must be in liability limits of not less than the following:

<u>General Annual Aggregate Limit</u>	<u>Limits of Liability</u>
Other than Products/Completed Operations	\$2,000,000
Products/Completed Operations Aggregate Limit	\$2,000,000
Personal Injury Limit	\$1,000,000
Each Occurrence	\$1,000,000

**7-3.2.2 Commercial Automobile Liability Insurance.**

1. You must provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
2. All costs of defense must be outside the limits of the policy.

**7-3.2.4 Contractors Hazardous Transporters Pollution Liability Insurance.**

1. You must provide at your expense or require Subcontractor to provide, as described below Contractors Hazardous Transporters Pollution Liability Insurance including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount not less than \$2,000,000 limit per occurrence/aggregate for bodily injury and property damage.
2. All costs of defense must be outside the limits of the policy. The deductible must not exceed \$25,000 per claim. Any such insurance provided by a subcontractor instead of you must be approved separately in writing by the City.

3. For approval of the substitution of Subcontractor's insurance the Contractor shall certify that all activities for which Contractors Hazardous Transporters Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance.
4. Contractual liability must include coverage of tort liability of another party to pay for bodily injury or property damage to a third person or organization. There must be no endorsement or modification of the coverage limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. Occurrence based policies must be procured before the Work commences and must be maintained for the duration of this contract. Claims Made policies must be procured before the Work commences, must be maintained for the duration of this contract, and must include a 12 month extended Claims Discovery Period applicable to this contract or the existing policy or policies must continue to be maintained for 12 months after the completion of the Work under this contract without advancing the retroactive date.
5. Except as provided for under California law, the policy or policies must provide that the City is entitled to 30 days prior written notice (10 days for cancellation due to non-payment of premium) of cancellation or non-renewal of the policy or policies.

**7-3.3 Rating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this contract as described herein must be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the State, and that have been approved by the City.

**7-3.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the State and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers must be subject to all of the requirements for policies of insurance provided by admitted carriers described herein.

**7-3.4 Evidence of Insurance.** Furnish to the City documents e.g., certificates of insurance and endorsements evidencing the insurance required herein, and furnish renewal documentation prior to expiration of this insurance. Each required document must be signed by the insurer or a person authorized by the insurer to bind coverage on its behalf. We reserve the right to require complete, certified copies of all insurance policies required herein.

**7-3.5 Policy Endorsements.**

**7-3.5.1 Commercial General Liability Insurance**

**7-3.5.1.1 Additional Insured.**

- a) You must provide at your expense policy endorsement written on the current version of the ISO Occurrence form CG 20 10 11 85 or an equivalent form providing coverage at least as broad.
- b) To the fullest extent allowed by law e.g., California Insurance Code §11580.04, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured.
- c) The additional insured coverage for projects for which the Engineer's Estimate is \$1,000,000 or more must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you.
- d) The additional insured coverage for projects for which the Engineer's Estimate is less than \$1,000,000 must include liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, or (c) premises owned, leased, controlled, or used by you.

**7-3.5.1.2 Primary and Non-Contributory Coverage.** The policy must be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it must provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

**7-3.5.1.3 Project General Aggregate Limit.**

The policy or policies must be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work must reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit must be in addition to the aggregate limit provided for the products-completed operations hazard.

**7-3.5.2 Commercial Automobile Liability Insurance.**

**7-3.5.2.1 Additional Insured.** Unless the policy or policies of Commercial Auto Liability Insurance are written on an ISO form CA 00 01 12 90 or a later version of this form or equivalent form providing coverage at least as broad, the policy must be endorsed to include the City and its respective elected officials, officers, employees, agents, and representatives as additional insured, with respect to liability arising out of automobiles owned, leased, hired or borrowed by you or on your behalf. This endorsement is limited to the obligations permitted by California Insurance Code §11580.04.

**7-3.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.**

**7-3.5.4.1 Additional Insured.**

- a) The policy or policies must be endorsed to include as an Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of: (a) Ongoing operations performed by you or on your behalf, (b) your products, (c) your work, e.g., your completed operations performed by you or on your behalf, or (d) premises owned, leased, controlled, or used by you; except that in connection with, collateral to, or affecting any construction contract to which the provisions of subdivision (b) of §2782 of the California Civil Code apply, this endorsement must not provide any duty of indemnity coverage for the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives in any case where an agreement to indemnify the City and its respective elected officials, officers, employees, agents, and representatives would be invalid under subdivision (b) of §2782 of the California Civil Code.
- b) In any case where a claim or loss encompasses the negligence of the Insured and the active negligence of the City and its respective elected officials, officers, employees, agents, and representatives that is not covered because of California Insurance Code §11580.04, the insurer's obligation to the City and its respective elected officials, officers, employees, agents, and representatives must be limited to obligations permitted by California Insurance Code §11580.04.

**7-3.5.4.2 Primary and Non-Contributory Coverage.** The policy or policies must be endorsed to provide that the insurance afforded by the Contractors Pollution Liability Insurance policy or policies is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives with respect to operations including the completed operations of the Named Insured. Any insurance maintained by the City and its elected officials, officers, employees, agents and representatives must be in excess of your insurance and must not contribute to it.

**7-3.5.4.3 Severability of Interest.** For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies must provide that your insurance must apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and must provide cross-liability coverage.

**7-3.6 Deductibles and Self-Insured Retentions.** You must pay for all deductibles and self-insured retentions. You must disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided.

**7-3.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer but not required by this contract.

**7-3.8 Notice of Changes to Insurance.** You must notify the City 30 days prior to any material change to the policies of insurance provided under this contract.

**7-3.9 Excess Insurance.** Policies providing excess coverage must follow the form of the primary policy or policies e.g., all endorsements.

**7-4 WORKERS' COMPENSATION INSURANCE.** DELETE in its entirety and SUBSTITUTE with the following:

**7-4.1 Workers' Compensation Insurance and Employers Liability Insurance.**

1. In accordance with the provisions of §3700 of the California Labor Code, you must provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.

2. Limits for this insurance must be not less than the following:

<u>Workers' Compensation</u>	<u>Statutory Employers Liability</u>
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you must comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.

**7-4.1.1 Waiver of Subrogation.**

The policy or policies must be endorsed to provide that the insurer will waive all rights of subrogation against the City, and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from work performed by the Named Insured for the City.

**7-5 PERMITS, FEES, AND NOTICES.** To the City Supplement, ADD the following:

The Contractor shall obtain all permits required for the demolition of the site, including permits necessitated by its operations off site, and all required recycling deposits. The Contractor shall make an appointment for the issuance of a demolition permit with the Development Services Department. Permit Fees will be paid by the Contractor and will be reimbursed via the bid item entitled, "Permit Fees – Type II".

Building Demolition/Removal Permit Fees what will be covered by this bid item are described in Information Bulletin 710 found in Appendix E. The Contractor shall provide receipt to the Resident Engineer prior to receiving reimbursement. All other

costs, such as contractor's staff time involved in obtaining this permit, shall be distributed throughout the bid items. Any prior approval for the plans will not in any way waive this requirement.

The Contractor shall be required to request inspections as specified in the California Building Code and by the Development Services Department. These inspections will be coordinated at all times through the Resident Engineer. Any work performed without the benefit of the required permit and subsequent inspection shall be removed and replaced at the discretion of the Inspector at no additional cost to the Agency.

**7-8.6 Water Pollution Control.** ADD the following:

1. Based on a preliminary assessment by the City, the Contract is subject to WPCP (Water Pollution Control Plan). The Contractor shall comply with all applicable standards, rules regulations, orders and requirement issued under the San Diego Municipal Code and all applicable federal, state and City standards, rules, regulations, orders and requirements.

**7-10.5.3 Steel Plate Covers.** Table 7-10.5.3(A), REVISE the plate thickness for 5'-3" trench width to read 1 3/4".

**7-15 INDEMNIFICATION AND HOLD HARMLESS AGREEMENT.** To the City Supplement, fourth paragraph, last sentence, DELETE in its entirety and SUBSTITUTE with the following:

Your duty to indemnify and hold harmless does not include any claims or liability arising from the established active or sole negligence, or willful misconduct of the City, its officers, or employees.

**7-16 COMMUNITY LIAISON.** To the City Supplement, DELETE in its entirety and SUBSTITUTE with the following:

**7-16 COMMUNITY OUTREACH.**

**7-16.1 General.**

1. To ensure consistency with the City's community outreach plan for the project, the City will work with you to inform the public (which includes, but is not limited to, property owners, renters, homeowners, business owners, recreational users, and other community members and stakeholders) of construction impacts. Efforts by you to mitigate construction impacts by communicating with the public require close coordination and cooperation with the City.
2. You shall perform the community outreach activities required throughout the Contract Time. The Contractor shall assign a staff member who will perform the required community outreach services.
3. You shall closely coordinate the Work with the businesses, institutions, residents and property owners impacted by the Project.

Your example duties include notifying businesses, institutions, and residents of the commencement of construction activities not less than 5 days in advance, coordinating access for vehicular and pedestrian traffic to businesses, institutions, and residences impacted by the Project, reporting activities at all Project progress meetings scheduled by the Engineer, attending the Project Pre-construction Meeting, attending 2 community meetings, responding to community questions and complaints related to your activities, and documenting, in writing, as well as logging in all inquiries and complaints received into the City's Public Contact Log located on the City's SDSShare site:

<http://sdshare/forums/ecp/PITS/picr/Lists/Public%20Contact%20Log/AllItems.aspx>.

4. You shall execute the Information Security Policy Acknowledgement Form - For Non-City Employees within 15 days of the award of the Contract if:
  - a) Your contact information is made available on any outreach materials or;
  - b) You will be the primary point of contact to resolve project related inquiries and complaints.
5. Electronic Communication.

All inquiries and complaints will be logged in to the City's SDSShare site within 24 hours of receipt of inquiries and complaints.

Any updates or a resolution of inquiries, and complaints shall be documented in the City's SDSShare site within 24 hours.

Copies of email communications shall be saved, individually, on to the City's SDSShare site as an Outlook Message Format (\*.msg).

All graphics, photos, and other electronic files associated with the inquiries and or complaints shall be saved into the individual record.

#### **7-16.1.1 Quality Assurance.**

1. During the course of community outreach, you shall ensure that the character of all persons that conduct community outreach (distributing door hangers, attending community meetings, interacting with the public, etc.) on your behalf shall:
  - a. Have the ability to speak and comprehend English and/or Spanish, as appropriate for the community or public they are informing,
  - b. Possess and display easily verifiable and readable personal identification that identifies the person as your employee,



- c. Have the interpersonal skills to effectively, professionally, and tactfully represent you, the project, and the City to the public.

**7-16.1.2 Submittals.**

1. You shall submit to the Resident Engineer, for review and approval, all drafts of letters, notices, postcards, door hangers, signs, mailing lists, proposed addresses for hand-delivery, and any other notices and letters that are to be mailed and or distributed to the public.
  - a. Prior to distributing or mailing, you shall submit final drafts of letters, notices, postcards, door hangers, signs, and any other notices and letters to the Resident Engineer for final review and approval. Submit a PDF copy of the approved door hangers to the Engineer.
  - b. After distributing or mailing, you shall submit verification of delivery and any copies of returned notices to the Resident Engineer. Submit a PDF copy of the approved letters and notices to the Engineer.
2. You shall use the City's SDSShare site to identify and summarize communications (via phone, in person, and email) with the public within 24 hours of receipt, even if your response to the individual is still incomplete. You shall upload to the City's SDSShare site copies of all written, electronic, and verbal communications and conversations with the public.

**7-16.1.3 Weekly Updates Recipients.** Submit a weekly correspondence with updates, traffic control issues and locations, lane closures, and any other pertinent information (with additional contact names given during award process) to the following recipient:

Gretchen Sorenson , Project Manager, [sorenson@civicsd.com](mailto:sorenson@civicsd.com)

**7-16.2 Community Outreach Services.**

**7-16.2.1 Public Notice by Contractor.**

1. Post Project Identification Signs in accordance with section 7-10.6.2
2. Notify businesses, institutions, property owners, residents or any other impacted stakeholders, within a minimum 300 feet radius of the Project, of construction activities and utility service interruptions not less than 5 days in advance.
3. Furnish and distribute public notices in the form of door hangers using the City's format to all occupants and/or property owners along streets:
  - a. Where Work is to be performed at least 5 days before starting construction or survey activities or impacting the community as approved by the Resident Engineer.
  - b. Within 5 days of the completion of your construction activities where work was performed, you shall distribute public notices in the form of door hangers, which outlines the anticipated dates of Asphalt Resurfacing or Slurry Seal.

- c. No less than 48 hours in advance and no more than 72 hours in advance of the scheduled resurfacing.
4. Leave the door hanger notices on or at the front door of each dwelling and apartment unit and at each tenant of commercial buildings abutting each of the street block segments. Where the front doors of apartment units are inaccessible, distribute the door hanger notices to the apartment manager or security officer.
5. Door Hanger Material: You shall use Blanks/USA brand, Item Number DHJ5B6WH, 1 ¼” Holes (removed), 2-up Jumbo Door Hanger in Bristol White, or approved equal.
6. Mailed Notice Material: You shall use Cougar by Domtar, Item Number 2834 or approved equal.
7. For all Work on private property, contact each owner and occupant individually a minimum of 15 days prior to the Work. If the Work has been delayed, re-notify owners and occupants of the new Work schedule, as directed by the Resident Engineer.
8. A sample of public notices is included in the Contract Appendix.

**7-16.2.2 Communications with the Public.**

1. Coordinate access for vehicular and pedestrian traffic to businesses, institutions and residences impacted by the Project.
2. You shall provide updates on construction impacts to the Resident Engineer. You shall notify the Resident Engineer in advance about time-sensitive construction impacts and may be required to distribute construction impact notices to the public on short notice.
3. You shall incorporate community outreach activities related to construction impacts in the baseline schedule and update the Resident Engineer with each week's submittal of the Three-Week Look Ahead Schedule.
4. At the request of the Resident Engineer, you shall attend and participate in project briefings at community meetings.
5. You shall coordinate with the Resident Engineer on all responses and actions taken to address public inquiries and complaints within 24-hours that they are received.

**7-16.2.3 Communications with Media.**

1. The City may allow members of the media access to its construction site(s) on a case-by-case basis only.
2. Occasionally, members of the media may show up at construction sites, uninvited. Members of the media (including, but not limited to newspaper,

magazine, radio, television, bloggers, and videographers) do not have the legal right to be in the construction site without the City's permission.

3. In the event media representatives arrive near or on the construction site(s), you shall keep them off the site(s), in a courteous and professional manner, until a Public Information Officer is available to meet them at an approved location.
4. You shall report all members of the media visits to the Resident Engineer as quickly as possible, so that the City's Public Information Officer can meet with the members of the media at the construction site(s).
5. If the City allows members of the media to access a construction site, you shall allow the City to escort the media representatives while they are on the construction site and shall ensure their safety.
6. You shall require media representatives to sign in and out of the Site Visitor Log and to use Personal Protective Equipment.
7. You have a right to speak to members of the media about your company and its role on the project. All other questions shall be referred to the City.

#### **7-16.3 Exclusive Community Liaison Services.**

You shall retain an Exclusive Community Liaison for the Project whose sole responsibilities will be to implement 7-16.2 , "Community Outreach Services" and as follows:

1. Develop a contact list of community, tenants, property owners, and agencies with a stake in the project.
2. Prepare and present of materials in coordination with the Resident Engineer.
3. Respond to community questions and complaints related to your activities.
4. Write, edit, update, or produce brochures, pamphlets and news releases.
5. Provide standard telephone inquiries and e-mail responses:
  - a) Respond to telephone calls and e-mails from the public.
  - b) Record calls and e-mails on the City's SDSshare site.
6. Provide a monthly summary report of all inquiries and complaints, including the name of the person, source of inquiry (via information line or email), phone number, address, date, and time of inquiry, who responded, and a summary of resolutions or pending resolutions to the Resident Engineer.
7. Report Exclusive Community Liaison activities at all progress meetings scheduled by the Resident Engineer.

8. Attendance at pre-construction, community and stakeholders meetings.

**7-16.3.1 Exclusive Community Liaison Work Plan.** The Work plan for the Exclusive Community Liaison shall address the items of Work specified in these specifications. Present your Exclusive Community Liaison and submit your exclusive community outreach plan (in writing) within 15 days of the Award of the Contract.

**7-16.4 Payment.** The Payment for the Community Outreach Service is included in the various Bid items. The payment for exclusive community liaison is in the bid item for “Exclusive Community Liaison Services.”

**7-20 ELECTRONIC COMMUNICATION.** ADD the following:

Virtual Project Manager will be used on this contract.

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

**9-3.2.5 Withholding of Payment.** To the City Supplement, item i), DELETE in its entirety and SUBSTITUTE with the following:

i) Your failure to comply with 7-2.3, “PAYROLL RECORDS” and 2-16, “CONTRACTOR REGISTRATION AND ELECTRONIC REPORTING SYSTEM.”

**ADD:**

**9-3.7 Compensation Adjustments for Price Index Fluctuations.** This Contract is not subject to the provisions of The WHITEBOOK for Compensation Adjustments for Price Index Fluctuations for the paving asphalt.

### **SECTION 300 - EARTHWORK**

**ADD:**

**300-1.5 Demolition.**

**300-1.5.1 General.**

**300-1.5.1.1** The CONTRACTOR shall furnish all materials, equipment and labor necessary to demolish and remove from the site all existing flooring, walls, fences, roofing, materials, and equipment and perform all related hazards materials removals indicated in the appendices. Existing slabs, and site paving shall remain and be protected in place. CONTRACTOR shall coordinate all existing utility disconnects with appropriate agencies having jurisdiction. A Demolition Plan (D-1) is included in Appendix F for more specific Demolition information. All hazardous material including but not limited to all asbestos and lead paint shall be removed and abated in accordance with all applicable regulations and as indicated in the environmental documents included in Appendix A.

In areas indicated to be demolished, the CONTRACTOR shall cut back flush and seal any pipe stub-outs remaining, and remove exposed piping, conduits, fixtures, junction boxes and supports. Switches, receptacles, and boxes shall also be removed.

Concealed piping and conduits shall be removed or capped and abandoned as necessary to leave the site secure. All other items shall be removed as shown.

The Contractor shall protect the adjacent buildings during all demolition activities. In any removals which may expose soil, the Contractor shall take precautions to minimize the soil disturbance.

**300-1.5.2 Codes.** The WORK of this Section shall comply with the current editions of the following codes as adopted by the City of San Diego Municipal Code:

California Building Code (CBC)

**300-1.5.3 General.** Structures shall be demolished and removed in compliance with SSPWC subsection 300-1 and the requirements indicated herein.

**300-1.5.4 Protection.** Safe passage of persons around the area of demolition shall be provided. Operations shall be conducted to prevent injury to people and damage to adjacent buildings, structures, and other facilities.

CONTRACTOR shall contact D'Wane Brown at Urban Corps at (619-235-6884) to pick up existing fence. CONTRACTOR shall erect permanent 6' chain link fence around jobsites with locking gate per City standard drawings. Fence shall have green mesh. CONTRACTOR shall maintain fence throughout demolition, and turn over fence over to the OWNER after demolition is complete. Payment for fencing shall be included in the lump-sum price for demolition no additional compensation shall be allowed.

Interior and exterior shoring, bracing, or supports shall be provided by the CONTRACTOR to prevent movement, settlement or collapse of structures to be demolished.

Existing landscaping materials, structures, and appurtenances which are not to be demolished shall be protected and maintained as necessary.

Unless otherwise indicated, the CONTRACTOR shall protect and maintain all utilities in the proximity of the facilities to be demolished.

**300-1.5.5 Cleaning.** During and upon completion of work, the CONTRACTOR shall promptly remove unused tools and equipment, surplus materials, rubbish, debris, and dust and shall leave areas affected by work in a smooth level graded and clean condition.

Clean adjacent structures and facilities of dust, dirt, and debris caused by demolition and return adjacent areas to condition existing prior to start of work.

The CONTRACTOR shall clean and sweep the affected portions of roads, streets, sidewalks and passageways daily.

**300-1.5.6 Payment.** All work described in this Section will be paid for under bid items ("Demolition of 101 50th Street").

## **SECTION 702 – CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT**

**702-5 CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT PRESENTATION.** Demolition and removal of debris shall be conducted to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities which shall not be closed or obstructed without permission from the OWNER. Alternate routes shall be provided around closed or obstructed traffic ways. If Temporary Traffic Control is required, Contractor shall prepare and obtain permits for Temporary Traffic Control.

Site debris, rubbish, and other materials resulting from demolition operations shall be removed and disposed of in compliance all laws and regulations. Burning of removed materials from demolished structures shall not be permitted.

**702-9 PAYMENT.** All work described in this Section will be paid for under bid items (“Demolition of 101 50th Street”).

## **SECTION 703 – ENCOUNTERING OR RELEASING HAZARDOUS SUBSTANCES**

**703-1 GENERAL.** The CONTRACTOR shall familiarize themselves with Limited Hazardous Materials & Construction Consulting for Renovation/Demolition completed by MTGL, Inc. on July 10, 2008. This Hazardous Materials Report can be located in Appendix A in these Specifications.

If, during demolition work, any additional hazardous materials are being discovered, the CONTRACTOR shall stop the work immediately and notify the Resident Engineer. Work interruptions caused thereby are subject to the provisions in Section 3 (GREENBOOK).

**703-20 PAYMENT.** All work described in this Section will be paid for under Lump Sum bid items (“Hazardous Material Abatement”).

## SECTION 705 – WATER DISCHARGES

- 705-2.6.1**      **General.** Paragraph (3), **CORRECT** reference to Section 803 to read “Section 703.”
- 705-2.6.3**      **Community Health and Safety Plan.** To the City Supplement, **DELETE** in its entirety and **SUBSTITUTE** with the following:
- 705-2.6.3**      **Community Health and Safety Plan.** See 703-2, “Community Health and Safety Plan.”

## SECTION 707 – RESOURCE DISCOVERIES

### **ADD:**

- 707-1.1**      **Environmental Document.** The City of San Diego Environmental Analysis Section (EAS) of the Development Services Department has prepared a **Limited Hazardous Materials** for **Former Valencia Park Library (101 50th Street) Demolition**, as referenced in the Contract Appendix. You must comply with all requirements of the **Limited Hazardous Materials** as set forth in the Contract **Appendix A**.

Compliance with the City’s environmental document is included in the various Bid items, unless a bid item has been provided.

## **END OF SUPPLEMENTARY SPECIAL PROVISIONS (SSP)**

**SUPPLEMENTARY SPECIAL PROVISIONS**

**APPENDICES**



**APPENDIX A**  
**LIMITED HAZARDOUS MATERIALS**



**Material  
Inspection  
and Testing**

**Geotechnical  
Engineering  
Services**

**Limited Hazardous  
Materials & Construction  
Consulting for Renovation/Demolition**

**101 50<sup>th</sup> Street  
San Diego, California**

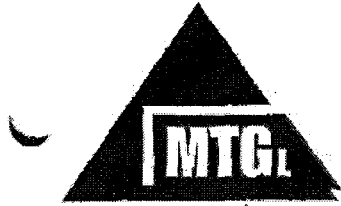
*Prepared for*

**Southern Economic Development Corporation  
4393 Imperial Ave., Suite 200  
San Diego, California**

*Prepared by*

**MTGL, Inc.  
7313 Carroll Road, Suite G  
San Diego, California 92121**

**July 10, 2008**



**Geotechnical Engineering  
Construction Inspection  
Materials Testing  
Environmental**

July 9, 2008  
PN#: SDPE-8-122

Ms. Sherry Brooks  
Southern Economic Development Corporation (SEDC)  
4393 Imperial Avenue, Suite 200  
San Diego, CA 92113

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Fax: 951.653.4666

**OC/LA/Inland Empire  
Dispatch**  
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**San Diego Dispatch**  
888.844.5060

www.mtglinc.com

RE: Limited Hazardous Materials & Construction Consulting for  
Renovation/Demolition

Subject: 101 50th Street, San Diego, CA 92113

Dear Ms. Brooks:

MTGL, Inc. is pleased to submit this report for services performed to conduct a Limited Hazardous Materials and Construction Consulting at the above mentioned subject property.

On May 19<sup>th</sup>, 2008 and again on May 22 and June 5, 2008, MTGL, Inc. visited the subject property to conduct the following:

- Conduct a Hazardous Material Survey for Asbestos, Lead and PCB's.
- Construction Observations for Renovation / Demolition

The purpose of these visits were conducted in order to inspect the building for necessary repairs and interferences that would be required to make the building ready for either rental property with full rehabilitation or complete demolition.

A review of the previous Asbestos and Lead Paint survey provided by the SEDC and prepared by SCS Engineers on October 19, 2007 was reviewed by MTGL, Inc. Prior to the inspection. Upon that review, MTGL, Inc. made a determination of which areas to investigate and or additionally sample.

It has been a pleasure working with you and the SEDC. Should you have any questions or comments, please feel free to call us at (858) 583-6703.

Respectfully submitted,  
MTGL, Inc.

Carl Tucker, IH, CAC  
Manager, Industrial Hygiene Services

CRT: mee

W:\Environmental\2008\Reports\Const.Man\SEDC

**CONTENTS**

**Limited Asbestos Survey 1**

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**Limited Lead-Based Paint Survey 2**

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**Limited Hazardous Material Survey for PCB's & Mercury 3**

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**Technical Abatement Specifications 4**

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**Construction Observation Report 5**

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**Appendices A-D 6**

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**A: Asbestos Laboratory Results  
B: SCS Engineers Report  
C: XRF Results 7  
D: Itemized Repair Remodel Costs**

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**8**

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**Limited Asbestos Survey**

## SCOPE OF SERVICES

As per the contract agreement between MTGL and the SEDC, the scope of services was performed as described below.

MTGL was to conduct a visual inspection for suspect asbestos containing building materials (ACBM) at an unoccupied commercial facility, limited to accessible areas located at 101 50<sup>th</sup> Street, San Diego, California. The inspection included collection of bulk samples of the suspect ACM and transmittal of the samples to a NVLAP accredited laboratory for analyses.

The purpose of the asbestos survey was to evaluate the referenced facilities to observe building materials that contain asbestos. Additional suspect materials identified during the survey that MTGL, Inc. did not find to be previously tested included:

- Rolled Roofing and Mastic
- Roof Penetrations
- Silver Paint
- Exterior Stucco
- Exterior Wall Putty
- Window Putty
- 6" Pipe Covering
- Corked Wallboard

**Asbestos was identified in the following materials:**

- Roofing Penetration
- Exterior Wall Seam Putty
- Flexible Gasket between Furnace Ducting
- Transite Flue Pipe (presumed)

This report has been prepared for the exclusive use of the SEDC.

## WARRANTY

MTGL, Inc. warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental consultants who are appropriately licensed or otherwise trained to perform asbestos assessments pursuant to the scope of work required on this project.

The survey included inspection of accessible materials, such as above or behind suspended ceilings or other non-permanent structures. MTGL did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to survey inaccessible areas. For the purpose of this warranty, inaccessible is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure. Inaccessible materials that are visible to MTGL's inspectors shall be assumed to be asbestos containing.

## METHODOLOGY

### GENERAL REFERENCES

Inspection, sampling and assessment procedures were performed in accordance with the contract agreement between MTGL, Inc. and the SEDC.

The survey consisted of two major activities: visual inspection and sampling. Although these activities are listed separately, they are integrated tasks.

### VISUAL INSPECTION

The visual inspection was performed and appropriately State of California Certified Building Inspector. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed. Materials that were similar in general appearance were grouped into homogeneous sampling areas.

#### Homogeneous Material Classifications

A preliminary walkthrough of the buildings were conducted to determine areas of materials that were visually similar in color, texture, and general appearance and that appeared to have been installed at the same time. Such materials are termed "homogeneous materials" by the EPA. During this walkthrough, the approximate locations of these homogeneous materials were noted. Only materials that were accessible or exposed and suspected to contain asbestos were identified. On this project, all the building materials used throughout the property seemed to be similar, and all considered to be homogeneous materials.

Following the EPA protocols, each identified suspect homogeneous material is placed in one of the following EPA classifications:

- Surfacing Materials (spray or trowel applied materials)
- Thermal System Insulation (materials applied to various mechanical systems)
- Miscellaneous Materials (any material which do not fit either of the above categories, such as floor tiles, etc.)

### SAMPLING PROCEDURES

Following the walkthrough, the inspector collected selected samples of exposed or accessible materials identified as suspect ACM. Sampling was limited to those accessible materials at The Commons Apartments, limited to various areas in the facility not involving destruction of walls, other building elements, physical barriers, or the structural integrity of the item being tested.

EPA guidelines were used to determine the sampling protocol. Sampling locations were chosen to be representative of the homogeneous sampling area. While an effort was made to collect samples randomly, samples were taken preferentially from damaged areas or areas which were the least visible to minimize disturbance of the material.



## METHODOLOGY (continued)

Samples of surfacing material were collected in general accordance with the EPA random sampling protocol outlined in the EPA publication, "Asbestos in Buildings: Simplified Sampling Scheme for Friable Surfacing Materials" (EPA 560/5-85-030a, October, 1985).

Samples of miscellaneous materials were taken as randomly as possible, while attempting to sample already damaged areas so as to minimize disturbance of the material.

### LABORATORY PROCEDURES

#### Method of Analysis

Analysis was performed by visually observing the bulk sample and preparing slides for microscopic examination and identification. The samples were mounted on slides and then analyzed for asbestos (chrysotile, amosite, crocidolite, anthophyllite, and actinolite/tremolite), fibrous non-asbestos constituents (mineral wool, paper, etc.) and nonfibrous constituents. Asbestos was identified by refractive indices, morphology, color, pleochroism, birefringence, extinction characteristics, and signs of elongation. The same characteristics were used to identify the non-asbestos constituents.

The microscopist used a stereoscope to visually estimate relative amounts of each constituent using a stereoscope to determine the volume of each constituent in proportion to the total volume of the sample.

All bulk samples were analyzed by Polarized Light Microscopy (PLM) with dispersion staining as described by the Interim Method of the Determination of Asbestos in Bulk Insulation, Federal Register, 40 CFR Ch. I Pt. 763, App. A to Subpt. F, July 1, 1987. This is a standard method of analysis in optical mineralogy and the currently accepted method for the determination of asbestos in bulk samples. A suspect material is immersed in a solution of known refractive index and subjected to illumination by polarized light. The characteristic color displays that result enable mineral identification. It should be noted that some ACM may not be accurately identified or quantified by PLM. As an example, the original fabrication of vinyl floor tiles routinely involved milling of asbestos fibers to extremely small sizes. As a result, these fibers may go undetected under the standard polarized light microscopy method. Transmission Electron Microscopy (TEM) is recommended for a more definitive analysis of these materials.

#### Laboratory Quality Control Program

MTGL, Inc. only uses laboratories that maintain an in-house quality control program. This program involves blind reanalysis of ten percent of all samples, precision and accuracy controls, and use of standard bulk reference materials.

## FINDINGS AND OBSERVATIONS

### GENERAL SUMMARY

Asbestos Containing Building Materials were found at the subject location. A material is considered by the EPA and the State of California to be asbestos-containing if at least one sample collected from the area shows asbestos present in an amount greater than one percent (> 1%). California Code of Regulation 1529 defines asbestos-containing construction materials as materials containing greater than one-tenth of one percent (0.1%) asbestos by weight. Under this code, materials containing between 0.1% and 1% asbestos are regulated as other regulated operations. Although operations involving materials containing between 0.1% and 1% asbestos are not considered Class I, II, or III work, several sections of the standard are applicable, including negative exposure assessments and the use of regulated areas.

Please refer to the laboratory analysis for a more detailed description of the microscopic analysis of these samples.

Asbestos-containing materials (ACM) are regulated by federal, state, and local agencies, which include but may not be limited to the following:

The EPA National Emission Standards for Hazardous Air Pollutants (NESHAP) requires an inspection for asbestos be done on facilities that are to undergo demolition or renovation work. Materials found to contain asbestos may need to be removed prior to the start of such demolition/renovation work.

NESHAP defines Category I non-friable asbestos-containing materials as gaskets, resilient floor covering, and asphalt roofing products that contain more than one percent asbestos, and Category II non-friable as any materials, except for Category I non-friable, that contain more than one percent asbestos and can not be reduced to a powder by hand pressure when dry. NESHAP defines a Regulated Asbestos-Containing Material (RACM) as: (a) friable ACM, (b) Category I non-friable that has become friable, (c) Category I non-friable that has or may be subject to sanding, grinding, cutting, or abrading, and (d) Category II non-friable that may or has become friable during demolition or renovation.

### BUILDING-SPECIFIC FINDINGS AND OBSERVATIONS

The site surveyed consists of a one story, wood framed facility with a brick/stucco exterior with a concrete foundation.

- Interior walls and ceilings were constructed of drywall/joint compound, brick, and/or plaster.
- Flooring consisted of concrete with various flooring materials.

### ASBESTOS WAS IDENTIFIED IN THE FOLLOWING MATERIALS:

- Roofing Penetration
- Exterior Wall Seam Putty
- Flexible Gasket between Furnace Ducting
- Transite Flue Pipe (presumed)

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MTGL recommends that all asbestos containing materials be removed prior to any renovation and/or demolition activities, which may impact the materials. A Licensed Abatement Contractor in the State of California should perform the removal activities.

If renovation and/or demolition activities do not impact the asbestos containing materials then the materials can be managed in place. Periodic surveillance is recommended. An Operations & Maintenance (O&M) program should be established and conducted by properly trained personnel. Minimum training for each type of material that has been identified should be given as required by Cal/OSHA. Additionally, postings would be required in all publicly accessible areas warning of the potential hazard to satisfy the Proposition 65 & Hazard Communication regulations.

#### **SAMPLE LOCATION AND ANALYTICAL RESULT**

Laboratory results indicate the sample numbers, suspect material sampled and locations and the analytical result in percent of asbestos present. Results can be found in Appendix A.

**Asbestos Survey Summary**  
(Intended for Demolition/Renovation Use)

**Project Number:** SDPE-8-122    **Surveyor:** Michelle Ehresman

**Project Name:** 101 50<sup>th</sup> Street, San Diego, CA 92113

Asbestos Present: Y  N  Removal Required: Y  N

**Type of Material Present**

**Surfacing Material**

- |   |   |
|---|---|
| <input type="checkbox"/> <b><u>Friable</u></b>    | <input type="checkbox"/> <b><u>Non-friable</u></b>              |
| <input type="checkbox"/> Structural Fireproofing  | <input type="checkbox"/> Joint Compound, Joint Tape & Wallboard |
| <input type="checkbox"/> Ceiling Plaster/Texture  | <input type="checkbox"/> Ceiling/Wall Plaster                   |
| <input type="checkbox"/> Wall Plaster/Texture     | <input type="checkbox"/> Stucco                                 |
| <input type="checkbox"/> Wallboard Joint Compound | <input checked="" type="checkbox"/> Exterior Wall Seam Putty    |

**Thermal Insulation**

- |  |   |
|--|---|
| <input type="checkbox"/> <b><u>Friable</u></b>         | <input checked="" type="checkbox"/> <b><u>Non-friable</u></b>       |
| <input type="checkbox"/> Insulation on Straight Piping | <input type="checkbox"/> Insulation on Straight Piping              |
| <input type="checkbox"/> Insulation on Pipe Fittings   | <input type="checkbox"/> Insulation on Pipe Fittings                |
| <input type="checkbox"/> Boiler Insulation             | <input type="checkbox"/> Boiler Insulation                          |
| <input type="checkbox"/> Exhaust Flue Insulation       | <input type="checkbox"/> Exhaust Flue Insulation                    |
| <input type="checkbox"/> Duct Insulation               | <input type="checkbox"/> Duct Insulation                            |
| <input type="checkbox"/> Other                         | <input checked="" type="checkbox"/> Flexible Gasket between Ducting |

**Miscellaneous Material**

- |  |   |
|--|---|
| <input type="checkbox"/> <b><u>Friable</u></b> | <input type="checkbox"/> <b><u>Non-friable</u></b>                |
| <input type="checkbox"/> Ceiling Tile          | <input type="checkbox"/> Floor Tile                               |
| <input type="checkbox"/> Sheet flooring        | <input type="checkbox"/> Floor Tile Mastic                        |
|  | <input type="checkbox"/> Fire doors/Frames                        |
|  | <input checked="" type="checkbox"/> Roofing Penetration           |
|  | <input type="checkbox"/> Roofing Mastic                           |
|  | <input checked="" type="checkbox"/> Roofing Silver Paint          |
|  | <input checked="" type="checkbox"/> Transite Flue Pipe (presumed) |

**Removal Requirements**

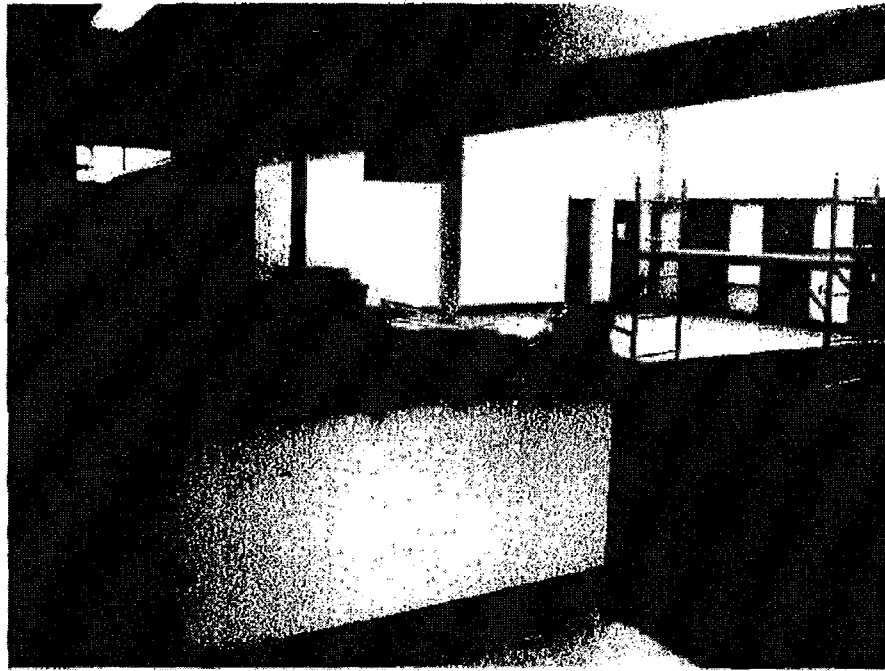
- |   |   |
|---|---|
| <input checked="" type="checkbox"/> <b><u>Regulated Abatement</u></b> | <input checked="" type="checkbox"/> <b><u>Non-regulated Abatement</u></b> |
| <input type="checkbox"/> Full Containment                             | <input checked="" type="checkbox"/> Wet Removal                           |
| <input checked="" type="checkbox"/> Glove bag Operation               | <input type="checkbox"/> Solvent Removal                                  |
| <input checked="" type="checkbox"/> Gross Removal                     | <input type="checkbox"/> Double wrap fire door in plastic/remove intact   |
| <input type="checkbox"/> Other  | <input checked="" type="checkbox"/> Roofing Material Abatement            |
|   | <input checked="" type="checkbox"/> Plastic Drop Floors                   |
|   | <input checked="" type="checkbox"/> Demarcated Work Area                  |

**Project Manager Requirements**

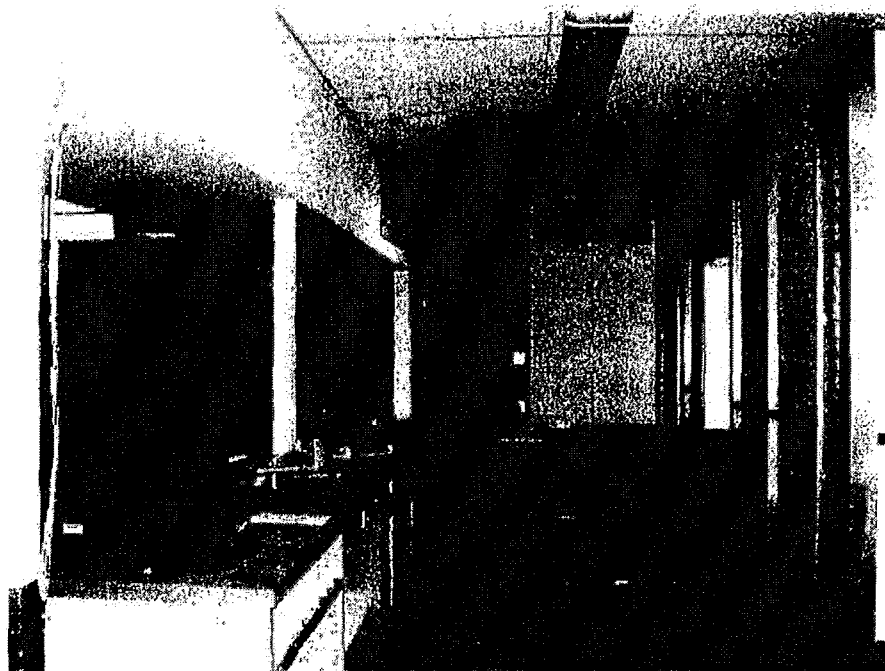
- |   |                               |
|---|-------------------------------|
| <input checked="" type="checkbox"/> Scope of Work and Specifications Required | <input type="checkbox"/> Note |
| <input type="checkbox"/> Limited Oversight                                    |                               |
| <input checked="" type="checkbox"/> Full Project Oversight                    |                               |

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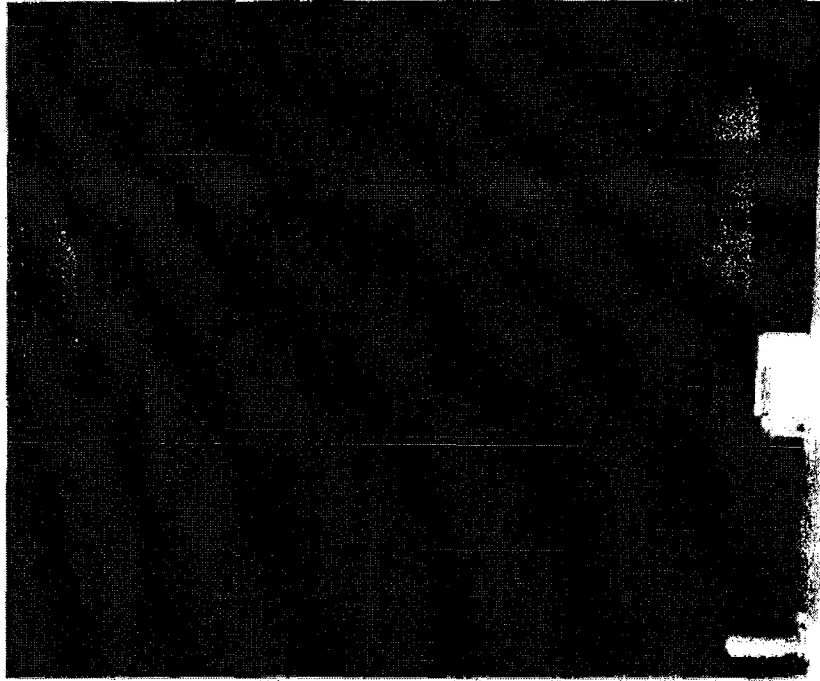
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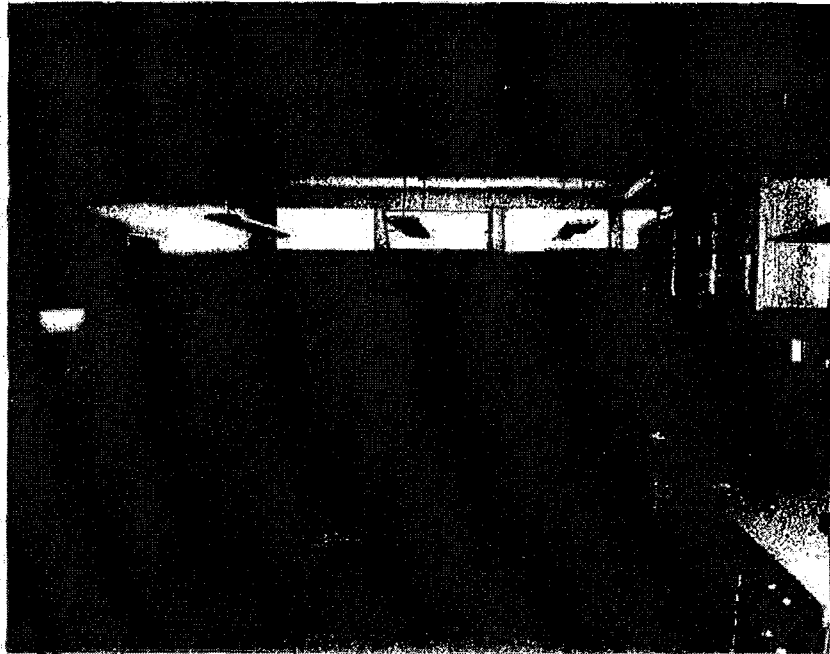
1. View of the reception area.



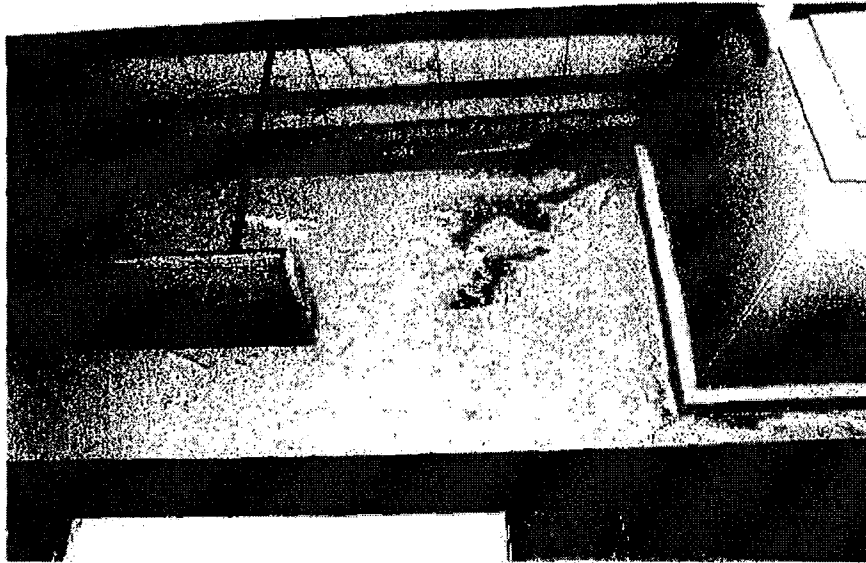
2. Alternate view of the reception area.



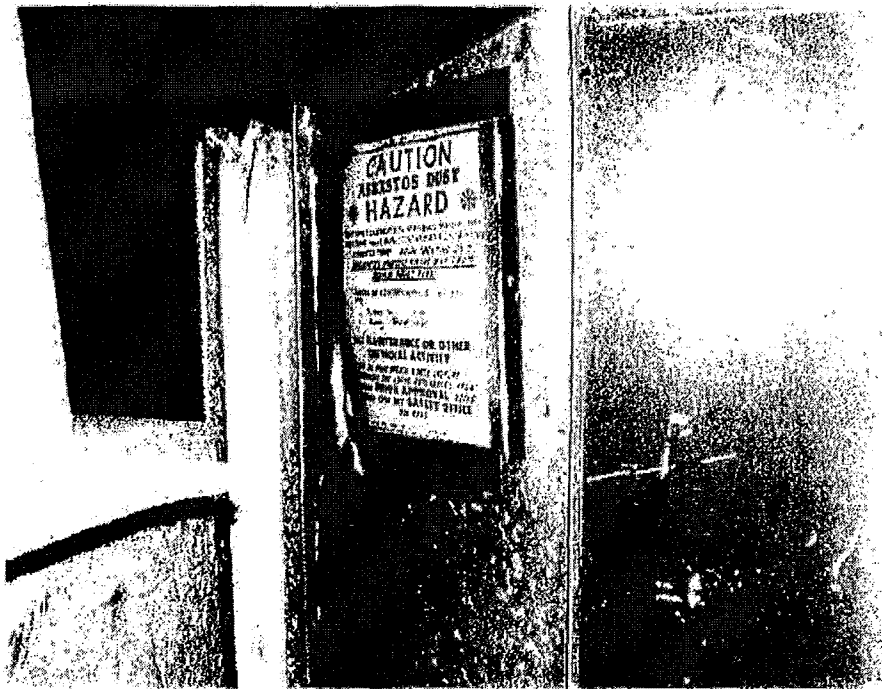
3. View of the loading dock.



4. View of the "Staff Only Room".

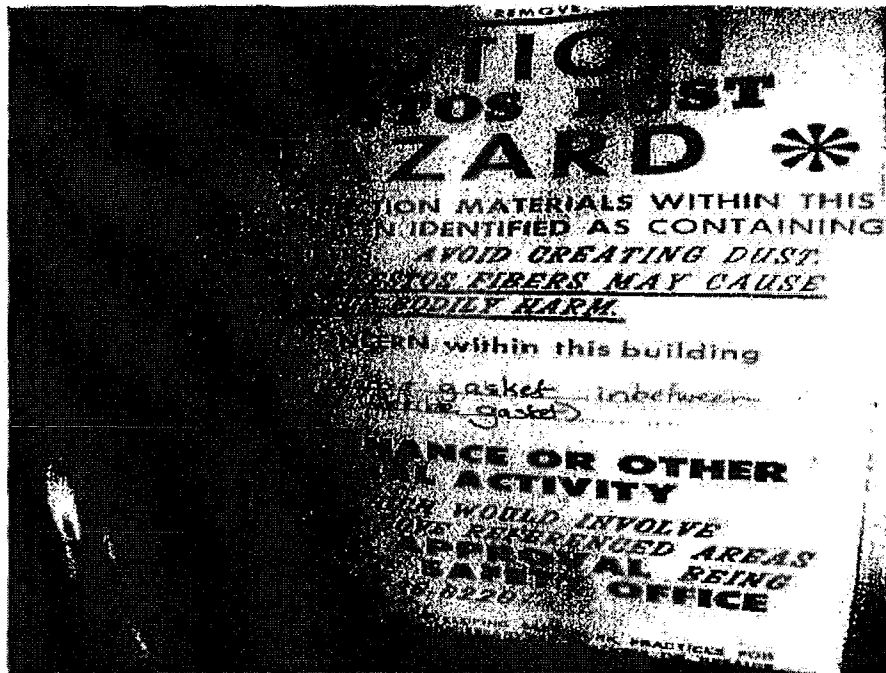


5. "Staff Only Room" view of damaged ceiling tile and wall plaster.

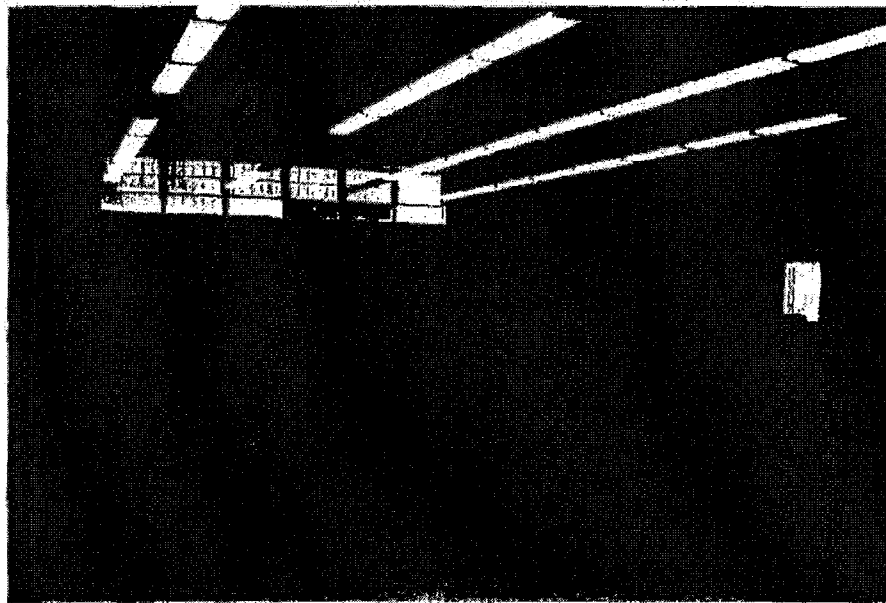


6. View of the asbestos containing flexible gasket in the mechanical room.

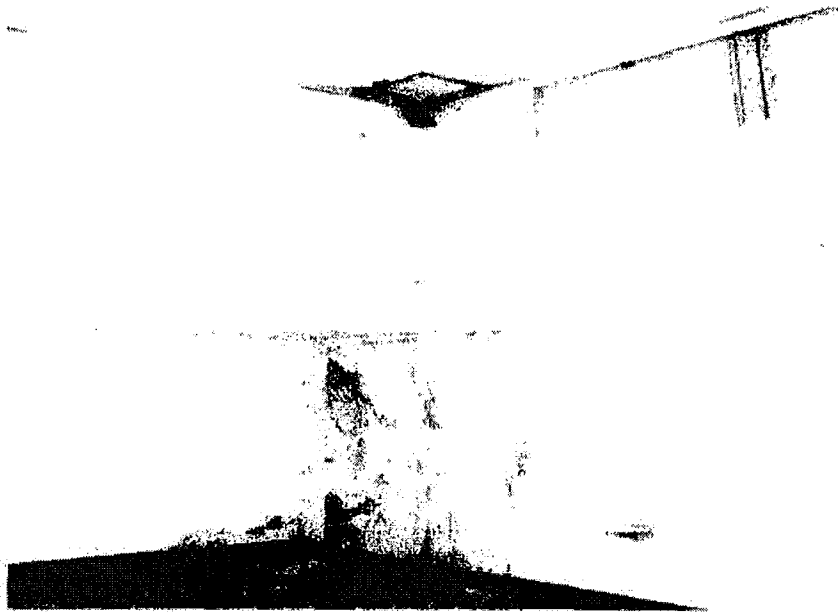




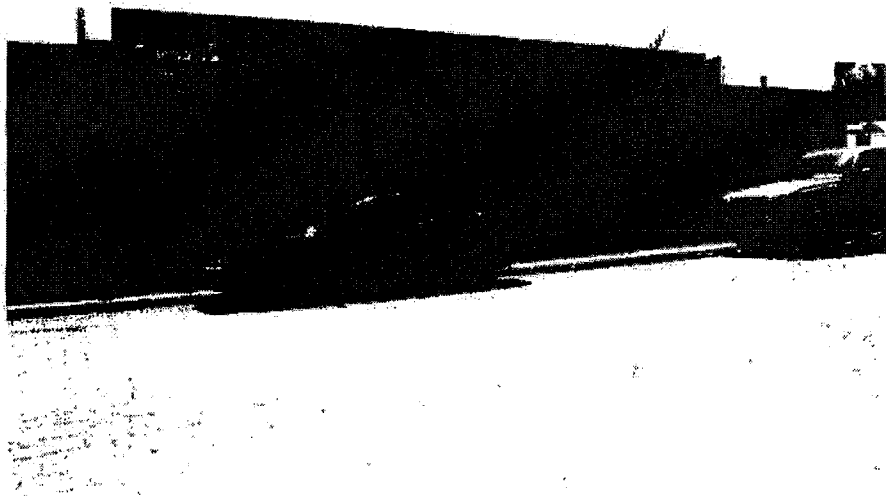
7. Close up of asbestos hazard sign for flexible gasket.



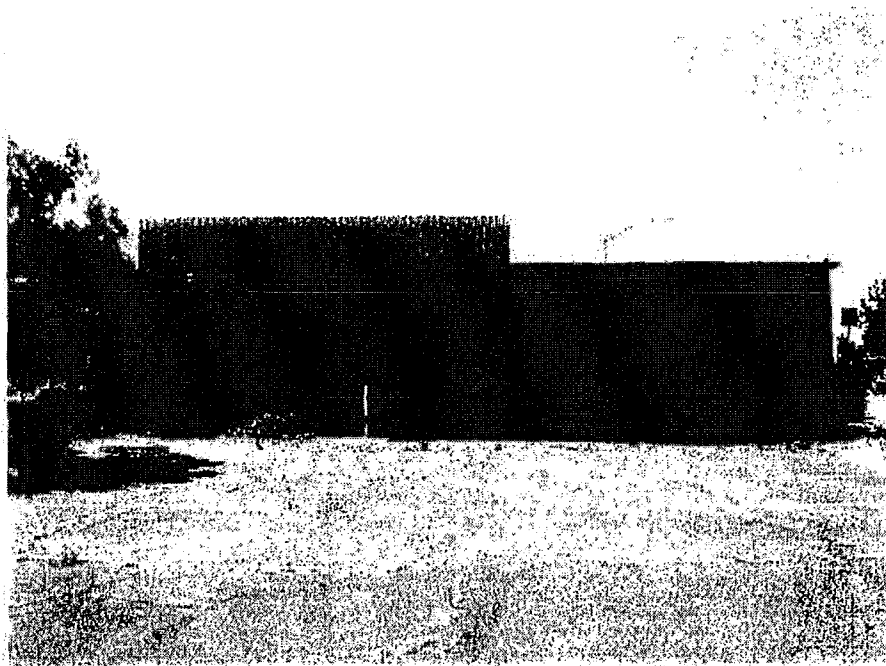
8. View of the central main library.



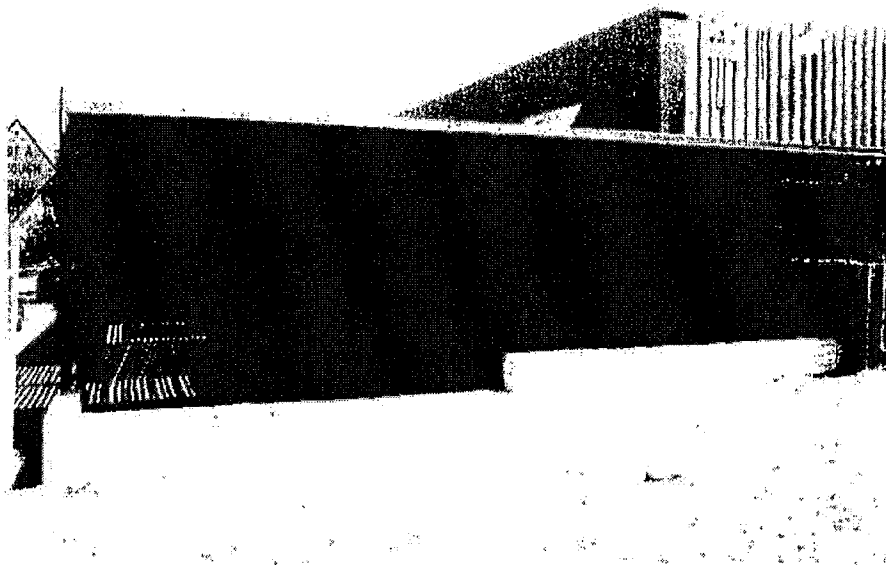
8. Library view of damaged ceiling tile, plaster and floor tiles.



9. Exterior view of subject property.



10. Exterior, rear view of subject property.



11. Front alcove view of subject property.

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**Limited Lead-Based Paint Survey**

# Limited Hazardous Material Survey for Lead-Based Paint

## Introduction

### GENERAL INFORMATION

MTGL was retained by the Southern Economic Development Corporation (SEDC), to conduct a Limited Hazardous Material Survey for suspect lead based paint coatings at the above referenced project located in an unoccupied commercial facility, limited to accessible areas located at 101 50<sup>th</sup> Street, San Diego, California. The subject site has been previously identified as the Valencia Library. The Limited Hazardous Materials Survey included identification and sampling of materials suspected of containing lead-based paint in client specified locations.

The subject site consists of following unoccupied location:

- One story, wood framed facility with a brick/stucco exterior with a concrete foundation.

### AUTHORIZATION

Authorization to perform this survey was given by Ms. Sherry Brooks in the form of a signed fully executed letter of agreement dated May 7, 2008. This report has been prepared for the exclusive use of the SEDC.

### PURPOSE

The purpose of this Limited Hazardous Material Survey was to determine the presence of materials that may pose a potential hazard during renovation and/or demolition activities at the subject site in San Diego, California.

## Warranty

MTGL, Inc. warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental consultants who are appropriately licensed or otherwise trained to perform lead-based paint assessments pursuant to the scope of work required on this project.

MTGL, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey included the inspection of accessible materials only. MTGL did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to survey inaccessible areas. For the purpose of this warranty, inaccessible is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure. Inaccessible materials that are visible to MTGL inspectors shall be assumed to be lead-based paint coated.

It is the owner's legal obligation to disclose the inspection results to tenants and/or purchasers before obligation under 24 CFR part 35 and 40 CFR part 745 (published in the Federal Register, Volume 61, Number 45, March 6, 1996, starting on P. 9064; copies of the regulations and related materials can be obtained from the National Lead Information Center Clearinghouse, (1-800-424-LEAD))

**GENERAL REFERENCES**

**LEAD-BASED PAINT**

The survey consisted of two major activities: visual inspection & sampling. Although these activities are listed separately, they are integrated tasks.

**VISUAL INSPECTION**

The visual inspection was performed by Ms. Michelle Ehresman, a Department of Health Service (DHS) approved lead inspector/assessor. An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed.

**TARGET GROUP MATERIAL CLASSIFICATIONS**

A preliminary walkthrough of the building was conducted to determine groups of materials that were visually similar in general appearance and that appeared to have been installed at the same time. Such materials are termed "Target Groups". During this walkthrough, the approximate locations of these target groups were noted. Only components that were accessible or exposed and suspected to be coated with lead-based paint were identified.

**SAMPLING & LABORATORY PROCEDURES**

**X-Ray Fluorescence (XRF) Spectrum Analyzer**

XRF values are collected by placing the scanner on the test surface and exposing the lead paint film to gamma radiation. XRF analyzers are capable of penetrating up to 25 layers of paint to determine lead content. At the conclusion of each test, the shutter is closed and the display on the control console displays the lead concentration in milligrams per square centimeter (mg/cm<sup>2</sup>).

The findings of this report are valid as of the date of visual inspection. Changes in the condition of the property can occur with passage of time, whether they are due to natural processes or the works of man on this or adjacent properties. In addition, changes in the state-of-art technology and/or government codes may occur. Due to such changes, the findings of this report may be invalidated wholly or in part by conditions beyond our control.

## GENERAL SUMMARY

### Lead-Based Paint

This survey encompassed the interior and exterior surfaces of the subject site.

Lead-based coatings were found on the following surfaces:

- White Bathroom Sinks
- Pink Ceramic Wall Tile
- Yellow Ceramic Wall Tile
- Red Ceramic Wall Base
- Reception Area Support Beam
- Exterior Support Beam

Several government agencies have definitions for what amount of lead constitutes paint to be considered "lead-based." The Department of Housing and Urban Development (HUD) has designated the amount to be 1.0 mg/cm<sup>2</sup> or if laboratory analysis results are reported as equal to or greater than 5,000 parts per million (ppm) or 0.5 percent by dry weight. The HUD regulations are related to potential hazards in the home environment and not to construction activities. The amount designated for high contact play areas is 400 ppm.

The California Department of Health Services (DHS) has created lead-related regulations that have been adopted into Title 17 of the California Code of Regulations. These regulations also define lead-based paint (LBP) as surface coatings containing lead concentrations of 1.0 mg/m<sup>2</sup> or 5,000 ppm. The DHS regulations apply only to lead hazard abatement activities.

The Consumer Product Safety Commission (CPSC) has defined lead-based paint as surface coatings containing lead concentrations greater than 600 ppm. In 1978, the CPSC banned the sale of lead-based paint to consumers and the use of lead-based paint in residences and public buildings.

The Cal-OSHA Lead in Construction Standard (Title 8 CCR Section 1532.1) requires contractors to protect their workers when there is a potential for lead exposure due to the construction activities. Currently, Cal-OSHA has no lead concentration listed at which contractors are exempt from the Standard 8 CCR 1532.1.

The Cal/OSHA Lead in Construction Standard (Title 8 CCR Section 1532.1) requirements apply to all construction activities where lead is disturbed and a potential for employee exposure exists. Since common lead analysis methods have a minimum detection limit, a painted surface cannot be shown by practical means to be completely lead free. In effect, Cal/OSHA's requirements apply to all paint that is disturbed by an employee. Newer paints often contain small amounts of lead (up to 600 ppm is allowed) due to contamination during the manufacturing process.

When any amount of lead is disturbed, an employee initial exposure assessment must be performed. If an employer has exposure data (air sample results) from similar workplace operations and conditions within the past 12 months then this data can be used.



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If employee exposure data from similar workplace operations are not available then initial air monitoring is required. Several provisions are required during the initial air monitoring including respiratory protection, protective clothing, and change areas with storage facilities, hand washing facilities, biological monitoring, and various types of training.

Designations and lead-based paint XRF Results may be found in Appendix C.

### LEAD-BASED PAINT

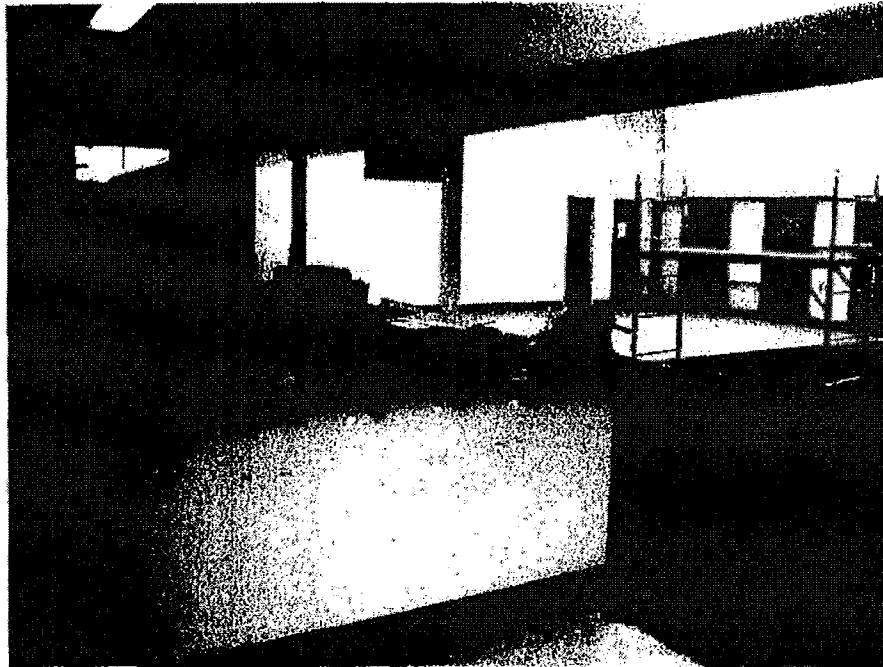
X-ray Diffraction (XRF) tests were conducted on various locations of subject site on the interior surfaces. The XRF readings indicated there are lead-based paint/coatings containing components present at the subject location.

A paint coating is considered by HUD and the EPA as being lead containing if it is 0.5% by weight or equal to or greater than 5,000 parts per million of higher. Consumer Product Safety Commission states that if a material is 0.06% by weight it is lead containing. Due to the laboratory analysis being within three hundredths of a percent of the HUD/EPA standards and over the quantity set forth by the Consumer Product Safety, we recommend that the exterior paints be treated as lead based.

In accordance with Federal law (24 CFR part 35 and 40 CFR part 745), landlords have to disclose known information on lead based paint and lead based paint hazards before leases take effect. Leases must include a disclosure form about lead-based paint. Sellers have to disclose known information on lead-based paint and lead-based paint hazards before selling a house. Sales contracts must include a disclosure form about lead-based paint. Buyers have up to 10 days to check for lead hazards. The lead painted materials in these buildings should be removed prior to the demolition activities.

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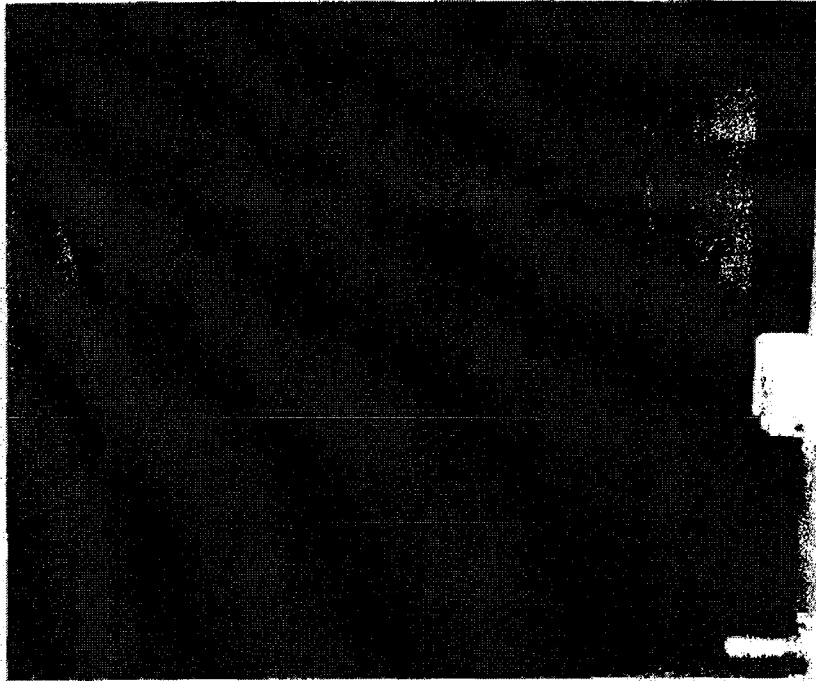
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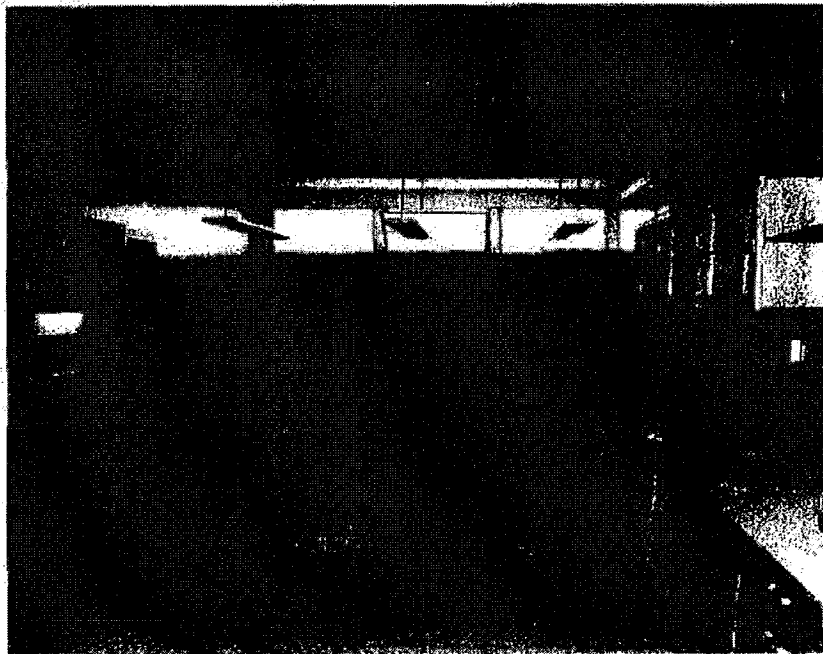
1. View of the reception area. (Men & Women's Bathroom in the foreground.)



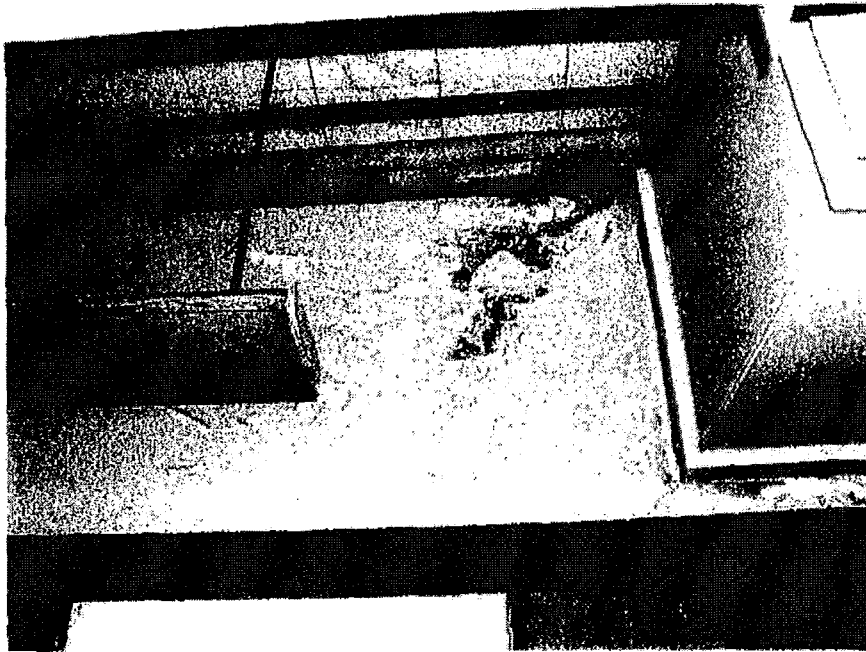
2. Alternate view of the reception area. (Support beams to the far left of photo.)



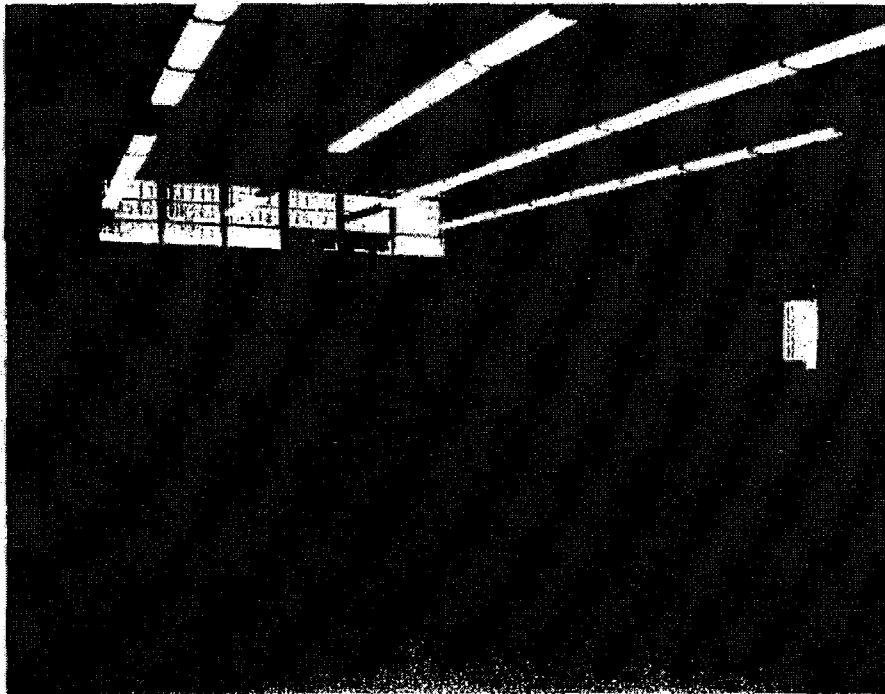
3. View of the loading dock.



4. View of the "Staff Only Room".



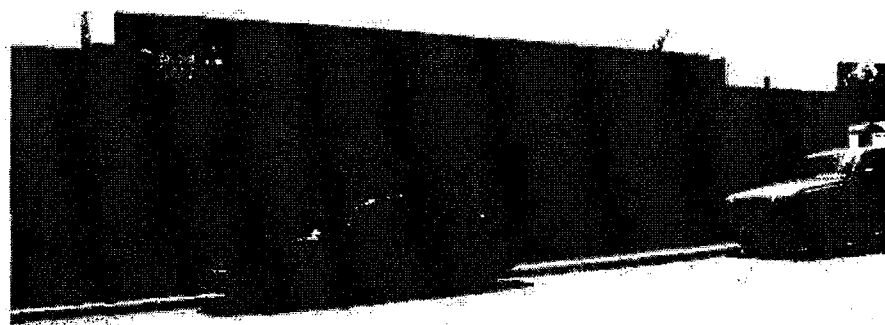
5. "Staff Only Room" view of damaged ceiling tile and wall plaster.



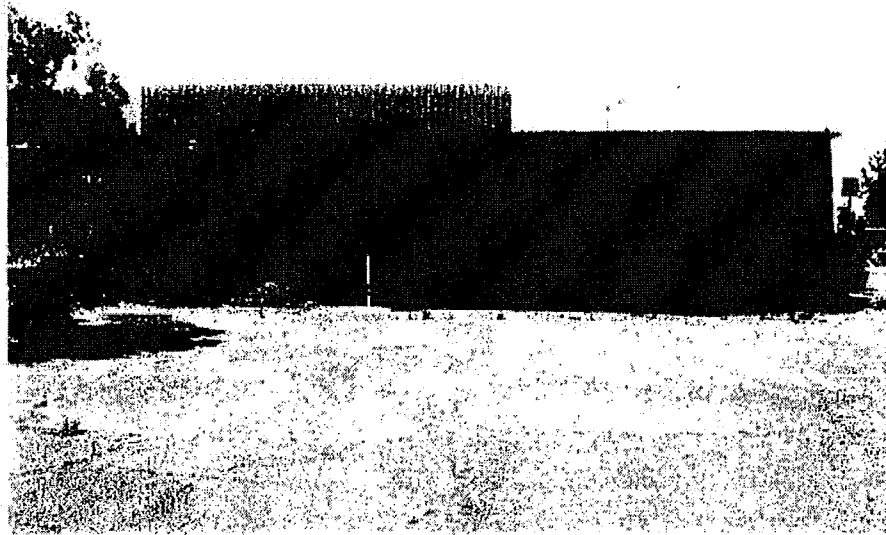
6. View of the central main library.



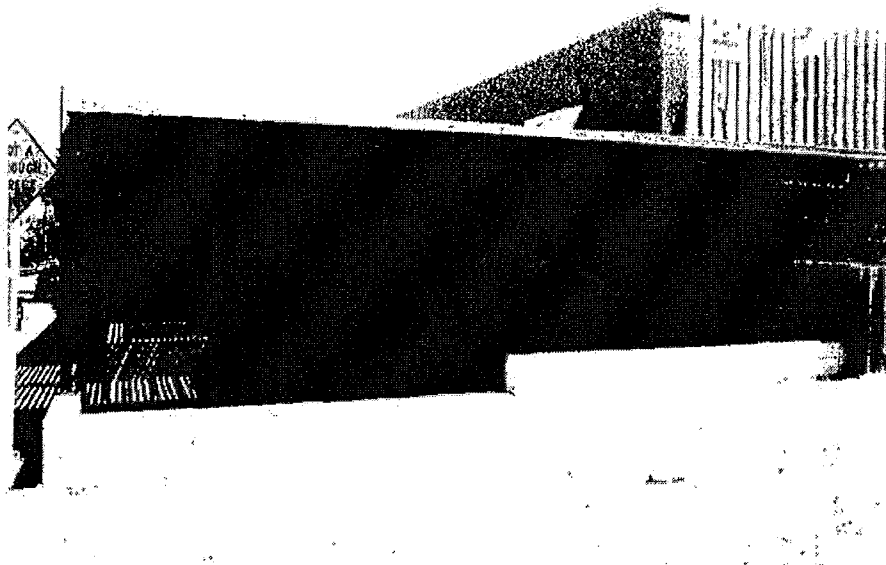
8. Library view of damaged ceiling tile, plaster and floor tiles.



9. Exterior view of subject property.



10. Exterior, rear view of subject property.



11. Exterior View of Entry/Alcove. (Support beams to the far left of photo)



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**Limited Hazardous Material Survey**  
**For PCB's & Mercury**

## **Limited Hazardous Material Survey for PCB's and Mercury**

### **Introduction**

#### **GENERAL INFORMATION**

MTGL was retained by the Southern Economic Development Corporation (SEDC), to conduct a Hazardous Material Survey for suspect Polychlorinated biphenyl's PCB and Mercury containing light ballasts, fluorescent lighting and thermostats at the above referenced project located in an unoccupied commercial facility, limited to accessible areas located at 101 50<sup>th</sup> Street, San Diego, California. The subject site has been previously identified as the Valencia Library.

The subject site consists of following unoccupied location:

- One story, wood framed facility with a brick/stucco exterior with a concrete foundation.

#### **AUTHORIZATION**

Authorization to perform this survey was given by Ms. Sherry Brooks in the form of a signed fully executed letter of agreement dated May 7, 2008. This report has been prepared for the exclusive use of the SEDC.

#### **PURPOSE**

The purpose of this Limited Hazardous Survey was to determine the presence of materials that may pose a potential hazard during renovation and/or demolition activities at the subject site in San Diego, California.

### **Warranty**

#### **Hazardous Material Survey**

MTGL, Inc. warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental consultants who are appropriately licensed or otherwise trained to perform Hazardous Material assessments pursuant to the scope of work required on this project.

MTGL, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

The survey included the inspection of accessible materials only. MTGL did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to survey inaccessible areas. For the purpose of this warranty, inaccessible

is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure.

## **METHODOLOGY**

### **GENERAL REFERENCES**

Inspection, sampling and assessment procedures were performed in accordance with the contract agreement between MTGL, Inc. and the SEDC.

The survey consisted of a visual inspection only.

### **VISUAL INSPECTION**

An initial building walkthrough was conducted to determine the presence of suspect materials that were accessible or exposed.

#### **PCBs and Mercury**

The following observations were made:

##### Polychlorinated biphenyls PCB's

There is a possibility that the light ballasts located in the staff bathroom and the storage room (located adjacent to the reception area) may contain Polychlorinated biphenyls (PCBs). The Toxic Substance Control Act (TSCA) banned the production of PCBs in 1978, however, they did not prohibit the use of PCB containing items manufactured prior to the ban.

The manufacturing, use, storage and disposal of PCBs are regulated by U.S. EPA under TSCA and Part 761, Title 40 of the Code of Federal Regulations (40 CFR Part 761). TSCA regulates the disposal of PCB wastes with concentrations over 1 parts per million (ppm) as well as, by the Department of Toxic Substance Control (DTSC) under the Health and Safety Code (HSC) and Title 22 of the California Code of Regulations (22 CCR).

##### Mercury

There is a possibility that the thermostats and fluorescent light bulbs located within the subject property may include Mercury which is considered a "Universal Waste". Universal wastes are hazardous wastes that are generated by a wide variety of people that contain mercury, lead, cadmium, copper and other substances hazardous to human and environmental health that may not be discarded in the trash. Waste requirements can be found in Title 22, Chapter 23 of the California Code of Regulations. Universal waste may be disposed of at the nearest Household Hazardous Waste facility (HHW).

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## **Technical Abatement Specifications**

## Technical Specifications

### Asbestos, Lead, Mold and Universal Waste Abatement

101 50<sup>th</sup> Street, San Diego, CA 92113

Scope of Work Summary	Specification Section
<b>Removal of:</b> <ul style="list-style-type: none"><li>• Asbestos Containing Interior Walls</li><li>• Asbestos Containing Roof Penetrations</li><li>• Asbestos Containing Exterior Wall Seam Putty</li><li>• Asbestos Containing Mechanical Room Flexible Gasket</li><li>• Asbestos Containing Transite Flue Pipe</li></ul>	01013-1
<b>Removal of:</b> <ul style="list-style-type: none"><li>• Lead Containing Sinks</li><li>• Ceramic Wall Tile</li><li>• Interior Support Beam Paint</li><li>• Exterior Support Beam Paint</li></ul>	02085-1
<b>Removal of:</b> <ul style="list-style-type: none"><li>• Mold/Fungi</li></ul>	02087-1
<b>Removal of:</b> <ul style="list-style-type: none"><li>• Universal Waste</li></ul>	02089-1

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**Technical Specifications  
Asbestos, Lead, Mold & Universal Waste  
Abatement**

**101 50<sup>th</sup> Street  
San Diego, California 92113**

*Prepared for*

**Southern Economic Development Corporation  
4393 Imperial Ave., Suite 200  
San Diego, CA 92113**

**MTGL Project Number: SDPE-8-122**

*Prepared by*

**MTGL, Inc.  
7313 Carroll Road, Suite G  
San Diego, California 92121**

**July 9, 2008**

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**Technical Specifications  
Asbestos, Lead, Mold & Universal Waste  
Abatement**

**101 50<sup>th</sup> Street  
San Diego, CA 92113**

*Prepared for*

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**July 9, 2008**

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## SECTION 01013 - SUMMARY OF THE WORK – ASBESTOS ABATEMENT

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings, general provisions of Contract, including General and Supplementary Conditions, and other Division-1 Specification Sections, apply to work of this section.

#### 1.2 SUBMITTALS

1.2.1 The Contractor shall submit all applicable licensing and health and safety information. This information shall include but shall not be limited to the California State Contractors License, California Division of Occupational Safety and Health (DOSH) registration, worker training certificates, current respirator fit test records and current medical clearance letters. Training, respirator fit testing and medical surveillance documentation need only be supplied for the actual personnel assigned to the project.

1.2.2 The Contractor shall submit the name, address, and class and phone number of the landfills proposed for disposal of waste generated during the project. Such landfill must be operated in compliance with all applicable Federal State, and local legal requirements.

1.2.3 Prior to the start of work the contractor will submit a work plan that describes how the contractor will conduct the removal of the materials including, but not limited to, the location of materials, quantity of materials, regulated areas, removal methods, estimated time of material removal, interface of trades and any other documentation that is required by the District, project specifications, local, state and federal regulations.

#### 1.3 PROJECT SCOPE OF WORK

1.3.1. General: The project consists of removing identified asbestos-containing materials as part of the remodeling of various locations at 101 50<sup>th</sup> Street, San Diego, CA. The work will involve in removal of interior and exterior finishes throughout specified locations in the following buildings:

- 101 50<sup>th</sup> Street, San Diego, CA (Interior & Exterior)

1.3.2. Abbreviated Written Summary: Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:

The scope of work involves the removal of asbestos-containing materials from areas that are discussed in the survey reports for 101 50<sup>th</sup> Street, San Diego, CA.. The asbestos-containing materials are located in the following areas:

- Interior Walls (Approximately 8900 sqft.)
- Roof Penetrations (approximately 50-100 Cutouts)
- Exterior Wall Seam Putty (approximately <160sqft.)
- Mechanical room-Flexible Gasket (Approximately <10sqft.)
- Roof-Transite Flue Pipes

This is regarded as a performance based specification and does not specify quantities or exact means and methods to remove the designated asbestos materials. The specification does provide in detail the requirements for protection of building components, controlling the migration of airborne contaminants, packaging and transporting of waste materials. A list of asbestos-containing materials is provided in Section 1.3. The work involves areas where asbestos

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containing materials have been identified, presumed or assumed. If non-asbestos containing flooring tiles has asbestos containing mastic on them then the non-asbestos containing floor tiles and or sheet vinyl will be considered asbestos contaminated and will be removed and disposed of in the same manner as all other regulated materials.

1.3.3 Field Inspections: Prior to bid, the Subcontractor shall fully investigate all relevant site conditions, including asbestos-containing materials, which may be encountered in the performance of the work. The Subcontractor accepts that, in order to perform the field inspection, the Owner has provided full and complete access to all area where work is to be performed. Based on these field inspections, the Contractor therefore accepts complete responsibility for the removal of asbestos-containing materials as related to the work.

#### 1.4 ASBESTOS SURVEY SUMMARY

The asbestos-containing materials mentioned in section 1.3 are known to be present at the work site. If any other materials are found, which are suspected of containing asbestos, notify immediately Owner's Representative. A description of the identified asbestos containing materials is located in the Asbestos Survey Report conducted by MTGL, Inc. dated July 9, 2008.

Please note that all bidding contractors are responsible for all quantities of the above asbestos containing materials and that their bid is inclusive of all known and/or presumed asbestos containing materials. The qualified bidding contractors agree that they have received this specification for removal. They have read and understood this specification and the survey results in their entirety and that the bid submitted is in full compliance with this specification, local, state and federal regulations.

Any questions regarding this specification, survey reports or any other bid documentation should be made to the District Representative prior to bid opening allowing enough time to receive a reply from the District Representative.

#### 1.5 POTENTIAL ASBESTOS HAZARD

Where in the performance of the work, workers, supervisory personnel, or consultants may encounter, disturb, or otherwise function in the immediate vicinity of any identified asbestos, take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to airborne contaminants. Such measures shall include the procedures and methods described herein, and compliance with regulations of applicable federal, state, and local agencies.

#### 1.6 STOP WORK

If the Owner Representative presents a written stop work order immediately and automatically stop all work. Do not recommence work until authorized in writing by the Prime Contractors Representative.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION - 01013

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## SECTION 01091 - DEFINITIONS AND STANDARDS

### 1. PART 1 - GENERAL

#### 1.1. RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this Section.

#### 1.2. SUMMARY

1.2.1. General Explanation: A substantial amount of specification language constitutes definitions for terms found in other contract documents, including the drawings. (Drawings must be recognized as diagrammatic in nature and not completely descriptive of the requirements indicated thereon.) Certain terms used in Contract Documents are defined in this article.

#### 1.3. DEFINITIONS

1.3.1. General: Definitions contained in this Article are not necessarily complete, but are general to the extent that they are not defined more explicitly elsewhere in the Contract Documents.

1.3.2. Indicated: This term refers to graphic representations, notes or schedules on the Drawings, or other Paragraphs or Schedules in Specifications, and similar requirements in Contract Documents. Where terms such as "shown," "noted," "scheduled," and "specified" are used, it is to help locate the reference; no limitation on location is intended except as specifically noted.

1.3.3. Directed: Terms such as "directed", "requested", "authorized", "selected", "approved", "required", and "permitted" mean "directed by the Owner's Representative", "requested by the Owner's Representative", and similar phrases. However, no implied meaning shall be interpreted to extend the Owner's Representative's responsibility into the Contractor's area of construction supervision.

1.3.4. Approve: The term "approved," where used in conjunction with the Owner's Representative's action on the Contractor's submittals, applications, and requests, is limited to the responsibilities and duties of the Architect stated in General and Supplementary Conditions. Such approval shall not release the Contractor from responsibility to fulfill Contract Document requirements, unless otherwise provided in the Contract Documents.

1.3.5. Regulation: The term "Regulations" includes laws, statutes, ordinances, patents, royalties and lawful orders issued by authorities having jurisdiction, as well as rules, conventions and agreements within the construction industry that control performance of the Work, whether they are lawfully imposed by authorities having jurisdiction or not.

1.3.6. Furnish: The term "furnish" is used to mean "supply and deliver to the project site, ready for unloading, unpacking, assembly, installation, and similar operations."

1.3.7. Install: The term "install" is used to describe operations at project site including the actual "unloading, unpacking, assembly, erection, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning and similar operations."

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- 1.3.8. Provide: The term "provide" means "to furnish and install, complete and ready for the intended use."
- 1.3.9. Installer: An "Installer" is an entity engaged by the Contractor, either as an employee, subcontractor or sub-subcontractor for performance of a particular construction activity, including installation, erection, application and similar operations. Installers are required to be experienced in the operations they are engaged to perform.
- 1.3.10. Project Site is the space available to the Contractor for performance of the work, either exclusively or in conjunction with others performing other construction as part of the project.
- 1.3.11. Testing Laboratories: A "testing laboratory" is an independent entity engaged to perform specific inspections or tests, either at the project site or elsewhere, and to report on, and, if required, to interpret results of those inspections or tests.
- 1.3.12. Owner's Representative: This is the entity described in the Terms and Conditions of the Contract. All references to Consultant in the Contract Documents in all cases refer to the Owner's Representative. The Owner's Representative will represent the Owner during construction and until final payment is due. The Owner's instructions to the Contractor will be forwarded through the Owner's Representative.
- 1.3.13. General Superintendent: This is the Contractor's Representative at the work site. This person will generally be the Competent Person required by OSHA in 29 CFR 1926, and in Cal OSHA CCR, Title 8, 1529.

1.4. DEFINITIONS RELATIVE TO ASBESTOS ABATEMENT

- 1.4.1. Accredited or Accreditation: (when referring to a person or laboratory): A person or laboratory accredited in accordance with section 206 of Title II of the Toxic Substances Control Act (TSCA).
- 1.4.2. Aerosol: A system consisting of particles, solid or liquid, suspended in air.
- 1.4.3. Air Cell: Insulation normally used on pipes and duct work that is comprised of corrugated cardboard which is frequently comprised of asbestos combined with cellulose or refractory binders.
- 1.4.4. Air Monitoring: The process of measuring the fiber content of a specific volume of air.
- 1.4.5. Amended Water: Water to which a surfactant has been added to increase the ability of the liquid to penetrate ACM.
- 1.4.6. Asbestos: The asbestiform varieties of serpentinite (chrysotile), riebeckite (crocidolite), cummingtonite-grunerite, anthophyllite, and actinolite-tremolite.
- 1.4.7. Asbestos-Containing Material (ACM): Any material containing more than one-percent asbestos of any type or mixture of types.
- 1.4.8. Asbestos-Containing Construction Material (ACCM): Any construction material containing more than one tenth of one percent (0.1%) asbestos, including surfacing ACM, thermal system insulation ACM, or miscellaneous ACM.
- 1.4.9. Asbestos-Containing Waste Material: Any material, which is or is suspected of being or any material contaminated with an asbestos-containing material, which is to be removed from a work area for disposal.

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- 1.4.10. Asbestos debris: Pieces of ACBM that can be identified by color, texture, or composition, or means dust, if the dust is determined by an accredited inspector to be ACM.
- 1.4.11. Authorized Visitor: The Owner, the Owner's Representative, testing lab personnel, the Architect/Engineer, emergency personnel or a representative of any federal, state and local regulatory or other agency having authority over the project.
- 1.4.12. Barrier: Any surface that seals off the work area to inhibit the movement of fibers.
- 1.4.13. Breathing Zone: A hemisphere forward of the shoulders with a radius of approximately 6 to 9 inches.
- 1.4.14. Ceiling Concentration: The concentration of an airborne substance that shall not be exceeded.
- 1.4.15. Certified Industrial Hygienist (C.I.H.): An industrial hygienist certified in Comprehensive Practice by the American Board of Industrial Hygiene.
- 1.4.16. Class I Asbestos Work: Activities involving the removal of TSI and surfacing ACM or PACM.
- 1.4.17. Class II Asbestos Work: Activities involving the removal of ACM, which is not TSI or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.
- 1.4.18. Competent Person: One who meets the definition in 29 CFR 1926.32(f) and is capable of identifying existing asbestos hazards in the workplace and selecting the appropriate control strategy for asbestos exposure, who has the authority to take prompt corrective measures to eliminate them, and is specially trained in a training course which meets the criteria of EPA's Model Accreditation Plan for project designer or supervisor.
- 1.4.19. Critical Barriers: One or more layers of plastic sealed over all openings into a work area or any other similarly placed physical barrier sufficient to prevent airborne asbestos in a work area from migrating to an adjacent area.
- 1.4.20. Decontamination Area: An enclosed area adjacent and connected to the regulated area and consisting of an equipment room, shower area, and clean room, which is used for decontamination of workers, materials and equipment that are contaminated with asbestos.
- 1.4.21. Demolition: The wrecking or taking out of any building component, system, finish or assembly of a facility together with any related handling operations.
- 1.4.22. Disposal Bag: A 6 mil thick leak-tight plastic bag, properly marked with the OSHA Asbestos DANGER legend, used for transporting asbestos waste from work and to disposal site.
- 1.4.23. Encapsulant: A material that surrounds or embeds asbestos fibers in an adhesive matrix, to prevent release of fibers.
- A. Bridging encapsulant: an encapsulant that forms a discrete layer on the surface of asbestos matrix.
  - B. Penetrating encapsulant: an encapsulant that is absorbed by the asbestos matrix without leaving a discrete surface layer.

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C. Removal encapsulant: a penetrating encapsulant specifically designed to minimize fiber release during removal of asbestos-containing materials rather than for encapsulation.

- 1.4.24. Encapsulation: Treatment of asbestos-containing materials, with an encapsulant.
- 1.4.25. Enclosure: The construction of an airtight, impermeable, permanent barrier around asbestos-containing material to control the release of asbestos fibers into the air.
- 1.4.26. Filter: A media component used in respirators to remove solid or liquid particles from the inspired air.
- 1.4.27. Friable Asbestos Material: Material that contains asbestos and that can be crumbled, pulverized, or reduced to powder by hand pressure when dry.
- 1.4.28. Glovebag: An impervious plastic bag-like enclosure affixed around ACM with glove-like appendages through which materials and tools may be handled.
- 1.4.29. HEPA Filter: A High Efficiency Particulate Air (HEPA) filter capable of trapping and retaining 99.97% of asbestos fibers greater than 0.3 microns in diameter.
- 1.4.30. HEPA Filter Vacuum Collection Equipment (or vacuum cleaner): High efficiency particulate air filtered vacuum collection equipment with a filter system capable of collecting and retaining asbestos fibers. Filters should be of 99.97% efficiency for retaining fibers of 0.3 microns or larger.
- 1.4.31. High-efficiency particulate air filter: (HEPA) refers to a filtering system capable of trapping and retaining 99.97 percent of all monodispersed particles 0.3 microns in diameter or larger.
- 1.4.32. Negative Pressure Respirator: A respirator in which the air pressure inside the respiratory-inlet covering is positive during exhalation in relation to the air pressure of the outside atmosphere and negative during inhalation in relation to the air pressure of the outside atmosphere.
- 1.4.33. Negative Initial Exposure Assessment: A demonstration by the contractor which complies with the criteria specified in 29 CFR 1926.1101 that employee exposure during an operation is expected to be consistently below the PELs.
- 1.4.34. Negative Pressure System: A pressure differential and ventilation system, consisting of a local exhaust system, utilizing HEPA filtration capable of maintaining a pressure differential with the inside of the Work Area at a lower pressure than any adjacent area, and which cleans recirculated air or generates a constant air flow from adjacent areas into the Work Area.
- 1.4.35. Personal Monitoring: Sampling of the asbestos fiber concentrations within the breathing zone of an employee.
- 1.4.36. Permissible Exposure Limits (PELs): Not in excess of 0.1 f/cc airborne asbestos fiber concentration as a 8-hour time weighted average (TWA) or 1.0 f/cc over a sampling period of 30 minutes as measured by NIOSH method 7400.
- 1.4.37. Presumed Asbestos-Containing Material (PACM): Thermal system insulation and surfacing material found in buildings constructed no later than 1980.
- 1.4.38. Protection Factor: The ratio of the ambient concentration of an airborne substance to the concentration of the substance inside the respirator at the breathing zone of the wearer. The protection factor is a measure of the degree of protection provided.

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by a respirator to the wearer.

- 1.4.39. Repair: Returning damaged ACBM to an undamaged condition or to an intact state so as to prevent fiber release.
- 1.4.40. Regulated Area: An area established to demarcate areas where Class I, II, and III asbestos work is conducted, and any adjoining area where debris and waste from such asbestos work accumulate; and a work area within which airborne concentrations of asbestos exceed or there is a reasonable possibility they may exceed the permissible exposure limit.
- 1.4.41. Respirator: A device designed to protect the wearer from the inhalation of harmful atmospheres.
- 1.4.42. Surfacing Material: Material that is sprayed, troweled-on or otherwise applied to surfaces.
- 1.4.43. Surfactant: A chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
- 1.4.44. Thermal System Insulation (TSI): ACM applied to pipes, fittings, boilers, breeching, tanks, ducts or other structural components to prevent heat loss or gain.
- 1.4.45. Time Weighted Average (TWA): The average concentration of a contaminant in air during a specific time period.
- 1.4.46. Visible Emissions: Any emissions containing particulate asbestos material that are visually detectable without the aid of instruments. This does not include condensed uncombined water vapor.
- 1.4.47. Wet Cleaning: The process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning utensils which have been dampened with amended water or diluted removal encapsulant and afterwards thoroughly decontaminated or disposed of as asbestos-contaminated waste.
- 1.4.48. Work Area: The area where asbestos-related work or removal operations are performed which is defined and/or isolated to prevent the spread of asbestos dust, fibers or debris, and entry by unauthorized personnel. Work area is a Regulated Area as defined by 29 CFR 1926.

## 1.5. SPECIFICATION FORMAT AND CONTENT EXPLANATION

This Article is provided to help the user of these Specifications understand the format, language, implied requirements, and similar conventions. None of the explanations shall be interpreted to modify the substance of Contract requirements.

- 1.5.1. Specification Format: These Specifications are organized into Divisions, Sections or Trade Headings based on the Construction Specifications Institute's 16-Division format and the MASTERFORMAT numbering system. This organization conforms generally to recognized construction industry practice.
- 1.5.2. Specification Content: This Specification has been produced employing conventions in the use of language and the intended meaning of certain terms, words, and phrases when used in particular situations or circumstances. These conventions are explained as follows:
  - A. Language used in the Specifications and other Contract Documents is the abbreviated type. Implied words and meanings will be appropriately

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interpreted. Singular words will be interpreted as plural and plural words interpreted as singular where applicable and where the full context of the Contract Documents so indicates.

- B. Imperative language is used generally in the Specifications. Requirements expressed imperatively are to be performed by the Contractor. At certain locations in the text, for clarity, subjective language is used to describe responsibilities, which must be fulfilled indirectly by the Contractor, or by others when so noted.

1.5.3. Assignment of Specialists: The Specification requires that certain specific construction activities shall be performed by specialists who are recognized experts in the operations to be performed. The specialists must be engaged for those activities, and the assignments are requirements over which the Contractor has no choice or option. Nevertheless, the ultimate responsibility for fulfilling Contract requirements remains with the Contractor.

- A. This requirement should not be interpreted to conflict with enforcement of building codes or regulations governing the work. It is also not intended to interfere with local trade union jurisdictional settlements and similar conventions.
- B. Trades: Use of titles such as "carpentry" is not intended to imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to trades persons of the corresponding generic name.

## 1.6. INDUSTRY STANDARDS

1.6.1. Applicability of Standards: Except where Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into Contract Documents. Such standards are made a part of the Contract Documents by reference. Individual Sections indicate which codes and standards the Contractor must keep available at the Project Site for reference.

- A. Referenced industry standards take precedence over standards that are not referenced but recognized in the construction industry as applicable.
- B. Unreferenced industry standards are not directly applicable to the work, except as a general requirement of whether the work complies with recognized construction industry standards.

1.6.2. Publication Dates: Where compliance with an industry standard is required, comply with standard in effect as of date of execution of the work.

- A. Updated Standards: At the request of the Owner's Representative, Contractor may submit a Change Order proposal where applicable code or standard has been revised and reissued after the date of the Contract Documents and before performance of Work affected. The Owner's Representative will decide whether to issue a Change Order to proceed with the updated standard.

1.6.3. Conflicting Requirements: Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to

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the Owner's Representative for a decision before proceeding.

- A. Minimum Quantities or Quality Levels: In every instance the quantity or quality level shown or specified shall be the minimum to be provided or performed. The actual installation may comply exactly, within specified tolerances, with the minimum quantity or quality specified, or it may exceed that minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum values, as noted, as appropriate for the context of the requirements. Refer instances of uncertainty to the Owner's Representative for decision before proceeding.

1.6.4. Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entities' construction activity. Copies of applicable standards are not bound with the Contract Documents.

- A. Where copies of standards are needed for performance of a required construction activity, the Contractor shall obtain copies directly from the publication source.
- B. Although copies of standards needed for enforcement of requirements may be part of required submittals, the Owner's Representative reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.

1.6.5. Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association, standards generating organization, authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the "Encyclopedia of Associations," published by Gale Research Co., available in most libraries.

1.6.6. Trade Union Jurisdictions: Assign and subcontract construction activities, and employ tradesmen and laborers in a manner that will not unduly risk jurisdictional disputes that could result in conflicts, delays, claims and losses.

1.7. SUBMITTALS REQUIRED BY STANDARDS

For the Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the work.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION - 01091

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## SECTION 01092 - CODES, REGULATIONS, AND STANDARDS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to this section.

#### 1.2 SUMMARY

This section sets forth governmental regulations and industry standards, which are included and incorporated herein by reference and made a part of the specification. This section also sets forth those notices and permits, which are known to the Owner and which either must be applied for and received, or which must be given to governmental agencies before start of work.

1.2.1 Requirements include adherence to work practices and procedures set forth in applicable codes, regulations and standards.

1.2.2 Requirements include obtaining permits, licenses, inspections, releases and similar documentation, as well as payments, statements and similar requirements associated with codes, regulations, and standards.

#### 1.3 CODES AND REGULATIONS

1.3.1 General Applicability of Codes and Regulations and Standards: Except to the extent that more explicit or more stringent requirements are written directly into the contract documents, all applicable codes, regulations, and standards have the same force and effect (and are made a part of the contract documents by reference) as if copied directly into the contract documents, or as if published copies are bound herewith.

1.3.2 Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all applicable Federal, State, and local regulations pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor is responsible for providing medical examinations and maintaining medical records of personnel as required by the applicable Federal, State, and local regulations. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable work, hauling, disposal, safety, health or other regulation on the part of himself, his employees, or his subcontractors.

1.3.3 Federal Requirements: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

1.3.4 OSHA: U.S. Department of Labor, Occupational Safety and Health Administration, (OSHA), including but not limited to:

Asbestos  
29 CFR 1910.1001 and  
29 CFR 1926.1101

Respiratory Protection  
29 CFR 134  
Access to Employee Exposure and Medical Records  
29 CFR 20

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Hazard Communication  
29 CFR 1910.1200

Specifications for Accident Prevention Signs and Tags  
29 CFR 1910.145

1.3.5 DOT: U. S. Department of Transportation, including but not limited to:

Hazardous Substances  
49 CFR 171 and 172

1.3.6 EPA: U. S. Environmental Protection Agency (EPA), including but not limited to:

Asbestos Abatement Projects; Worker Protection Rule  
40 CFR 763, Sub-part G

Asbestos Hazard Emergency Response Act (AHERA) Regulation  
Asbestos Containing Materials in Schools Final Rule & Notice  
40 CFR 763, Sub-part E

Training Requirements of (AHERA) Regulation  
Asbestos Containing Materials in Schools Final Rule & Notice  
40 CFR 763, Sub-part E, Appendix C

National Emission Standard for Hazardous Air Pollutants (NESHAP)  
National Emission Standard for Asbestos  
40 CFR 61, Sub-part A and M

1.3.7 State Requirements: Which govern asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

1.3.1. CCR Title 8, Section 1529 – Asbestos Construction Standard

1.3.2. Air Pollution Control District (APCD)

1.4 STANDARDS

1.4.1 General Applicability of Standards: Except to the extent that more explicit or more stringent requirements are written directly into the Contract Documents, all applicable standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies are bound herewith.

1.4.2 Contractor Responsibility: The Contractor shall assume full responsibility and liability for the compliance with all standards pertaining to work practices, hauling, disposal, and protection of workers, visitors to the site, and persons occupying areas adjacent to the site. The Contractor shall hold the Owner and Owner's Representative harmless for failure to comply with any applicable standard on the part of himself, his employees, or his subcontractors.

1.4.3 Standards: Which apply to asbestos abatement work or hauling and disposal of asbestos waste materials include but are not limited to the following:

A. American National Standards Institute (ANSI)  
1430 Broadway  
New York, New York 10018  
(212) 354-3300

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1. Fundamentals Governing the Design and Operation of Local Exhaust Systems, Publication Z9.2-79

2. Practices for Respiratory Protection, Publication Z88.2-80

B. American Society for Testing and Materials (ASTM)  
1916 Race Street  
Philadelphia, PA 19103  
(215) 299-5400

1. Safety and Health Requirements Relating to Occupational Exposure to Asbestos, E 849-82

2. Standard Practice for Visual Inspection of Asbestos Abatement Projects, E 1368-90

3. Specification for Encapsulates for Friable Asbestos Containing Building Materials, Proposal P-189

## 1.5 EPA GUIDANCE DOCUMENTS

1.5.1 EPA Guidance Documents: Discuss asbestos abatement work or hauling and disposal of asbestos waste materials listed below for the Contractor's information only. These documents do not describe the work and are not a part of the work of this contract.

A. Guidance for Controlling Asbestos-Containing Materials in Buildings (Purple Book) EPA 560/5-85-024

B. Evaluation of the EPA Asbestos-in-Schools Identification and Notification Rule. EPA 560/5-84-005.

C. Asbestos in Buildings: Guidance for Service and Maintenance Personnel. EPA 560/5-85-018.

D. Asbestos Waste Management Guidance. EPA 530-SW-85-007.

E. Managing Asbestos In Place. A Building Owner's Guide to Operations and Maintenance Programs for Asbestos-Containing Materials. EPA 20T-2003

F. A Guide to Respiratory Protection for the Asbestos Abatement Industry. EPA-560-OPTS-86-001

## 1.6 NOTICES

### 1.6.1 U.S. ENVIRONMENTAL PROTECTION AGENCY

A. Send Written Notification as required by USEPA National Emission Standards for Hazardous Air Pollutants (NESHAP) Asbestos Regulations

(40 CFR 61, Subpart M) to the regional Asbestos NESHAP Contact at least 10 days prior to beginning any work on asbestos-containing materials. Send notification to the following address:

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REGION 9  
Asbestos NESHAP Contact  
Air Management Division  
USEPA  
75 Hawthorne Street  
San Francisco, CA 94105  
(415) 744-1219

- B. Notification: Complete the notification form provided in 40 CFR 61 and send to the NESHAP contact.

1.6.2 STATE AND LOCAL AGENCIES

Air Pollution Control District  
10124 Old Grove Road  
San Diego, California 92131  
(858) 586-2600

Office Hours 8:00 AM to 5:00 PM  
Monday through Friday

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION - 01092

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SECTION 01220 - PROJECT MEETINGS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this Section.

1.2 DESCRIPTION

This section describes procedures for scheduling and administration of project progress meetings, including the preconstruction conference.

1.3 RELATED SECTIONS

Agreement between the Owner and Contractor  
Section 01043 - Project coordination  
Section 01301 - Submittals

1.4 PRECONSTRUCTION CONFERENCE

The Preconstruction Conference covers assignment of responsibilities and personnel, location of contained work areas and temporary facilities for electric and water services, etc.

1.4.1 The Preconstruction Conference will be held at a time and place selected by the Owner or Owner's Representative prior to commencing project work.

1.4.2 At minimum the following personnel shall attend:

- A. Contractor and Contractor's superintendent and assistants
- B. Owner's Representative
- C. Project Inspector

1.4.3 Pework submittals are to be presented at the Preconstruction Conference. No work shall commence prior to approval of required Pework submittals.

1.4.4 The Contractor shall present for approval the Contractor's Schedule and Building Coordination Plan.

1.4.5 The Owner's Representative or other owner designee will chair the Preconstruction Conference.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION (Not Applicable)

END OF SECTION - 01220

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## SECTION 01410 - AIR MONITORING - TEST LABORATORY SERVICES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

General provisions of Contract, including General and Supplementary Conditions, and other Specification Sections, apply to work of this section. In instances where documents conflict, the more stringent requirement will apply.

#### 1.2 DESCRIPTION OF THE WORK

1.2.1 This section describes air monitoring carried out by the Contractor and the owner to verify that the building beyond the work area and the outside environment remains uncontaminated. This section also sets forth airborne fiber levels both inside and outside the work area as action levels, and describes the action required by the Contractor if an action level is met or exceeded.

1.2.2 Air monitoring required by OSHA is not covered in this section.

1.2.3 The owner reserves the right to perform air sampling at its discretion during all contractual activities.

#### 1.3 AIR MONITORING

1.3.1 Work Area Isolation: The purpose of the Owner's air monitoring is to detect faults in the work area isolation such as:

- A. Contamination of the building outside of the work area
- B. Failure of filtration or rupture in the negative pressure system
- C. Contamination of air outside the building envelop by airborne asbestos

1.3.2 Should any of the above occur, immediately cease asbestos abatement activities until the fault is corrected. Do not recommence work until authorized by the Owner.

1.3.3 Work Area Airborne: The Owner will perform air monitoring in the work area. The purpose of air monitoring will be to detect airborne asbestos concentrations, which may challenge the ability of the Work Area Isolation procedures to protect the balance of the building or outside of the building from contamination.

1.3.4 Work Area Clearance: The Owner will perform air monitoring to determine the acceptability of the work area for re-occupancy without the use of protective equipment. The predetermined asbestos clearance level for this project is 0.01 fibers per cubic centimeter of air (f/cc).

1.3.5 The Owner will be conducting air monitoring throughout the course of the project.

#### 1.4 STOP ACTION LEVELS

1.4.1 Inside Work Area Maintain airborne asbestos concentrations in the work area less than the Stop Action Level given below for the type of respiratory protection in use. If the fiber counts rise above this figure for any sample taken, revise work procedures to lower fiber counts. If a fiber count for any work shift or 8-hour period exceeds the Stop Action Level, stop all work except corrective action, leave negative pressure and air circulation system in operation and notify Owner's Representative. After correcting cause of high fiber levels, do not recommence

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work for 24 hours unless otherwise authorized, in writing, by Owner's Representative.

STOP ACTION LEVEL (f/cc)	RESPIRATOR REQUIRED	PROTECTION FACTOR
0.1	Half face APR	10
0.1	Full face APR	50
1.0	PAPR or Type C, continuous flow	100
5.0	Type C, Pressure demand	1000

1.4.2 Outside Work Area: If any air sample taken outside of the Work Area exceeds the base line established prior to start of work, immediately and automatically stop all work except corrective action. The Owner's Representative will determine the source of the high reading and so notify the Contractor in writing.

1.4.3 If the high reading was the result of other causes, initiate corrective action as determined by the Owner's Representative.

1.4.4 Effect on Contract Sum

A. Complete corrective work with no change in the Contract Sum if high airborne fiber counts were caused by Contractor's activities; additional analytical charges will be borne by contractor.

B. The contract Sum and schedule will be adjusted for additional work caused by high airborne fiber counts beyond the Contractor's control.

1.4.5 Fibers Counted: TEM analysis will be used to resolve any disputes regarding fiber types when a project has been stopped due to excessive airborne fiber counts.

1.5 ANALYTICAL METHODS

The following methods will be used by the Owner in analyzing filters used to collect air samples. The filters used shall be in accordance with the referenced methods.

1.5.1 Samples collected for PCM analysis shall be analyzed by NIOSH 7400 method.

1.5.2 Samples collected for TEM analysis shall be analyzed by the method set forth in the AHERA Regulations, 40 CFR 763, Appendix A.

1.6 DAILY

1.6.1 From start of work through Project Decontamination, the Owner will conduct air sampling inside and outside the work area.

PART 2 - PRODUCTS (NOT APPLICABLE)

PART 3 - EXECUTION (NOT APPLICABLE)

END OF SECTION - 01410



**SECTION 01513 - TEMPORARY NEGATIVE PRESSURE AND AIR CIRCULATION SYSTEM**  
**PART 1 - GENERAL**

Negative pressure machines and the process of setting up a negative pressure space may be subject to patent rights (e.g. Patent No. 4,604,111). Contractor shall pay all license fees and royalties and assume all costs incidental to the use, in the performance of the work or the incorporation into the work of any invention, design, process, product or device which is the subject of any rights, including but not limited to patents or copyrights, held by others. Contractor shall defend, indemnify and hold harmless the Southern Economic Development Corporation, its owners and affiliates, and MTGL, Inc., and anyone directly or indirectly employed by either of them from and against any and all claims, damages, losses and expenses (including attorney's fees and court and arbitration expenses) arising out of any alleged infringement of such rights of others.

**1.1 RELATED DOCUMENTS**

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this section.

**1.2. MONITORING**

1.2.1. Continuously monitor and record the pressure differential between the work area and the outside of the work area with a monitoring device incorporating a continuous recorder. For containments greater than 20,000 square feet, two monitoring devices, with recorder, shall be required. Meters shall be equipped with a warning buzzer, which will sound if pressure differential drops below 0.02 inches of water.

**PART 2 - PRODUCTS**

**2.1. HEPA FILTERED FAN UNITS**

2.1.1. General: Supply the required number of HEPA filtered fan units to the site in accordance with these specifications. Use units that meet the following requirements.

2.1.2. Cabinet: Constructed of durable materials able to withstand damage from rough handling and transportation. The width of the cabinet should be less than 30 inches to fit through standard-size doorways. Provide units whose cabinets are:

- A. Factory-sealed to prevent asbestos-containing dust from being released during use, transport, or maintenance
- B. Arranged to provide access to and replacement of all air filters from intake end
- C. Mounted on casters or wheels

2.1.3. Fans: Rate capacity of fan according to usable air-moving capacity under actual operating conditions.

2.1.4. HEPA Filters: Provide units whose final filter is the HEPA type with the filter media (folded into closely pleated panels) completely sealed on all edges with a structurally rigid frame.

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- A. Provide units with a continuous rubber gasket located between the filter and the filter housing to form a tight seal.
  - B. Provide HEPA filters that are individually tested and certified by the manufacturer to have an efficiency of not less than 99.97 percent tested in accordance with Military Standard Number 282 and Army Instruction Manual 136-300-175A. Provide filters that bear a UL586 label to indicate ability to perform under specified conditions.
  - C. Provide filters that are marked with: the name of the manufacturer, serial number, airflow rating, efficiency and resistance, and the direction of test airflow.
- 2.1.5. Prefilters, which protect the final filter by removing the larger particles, are required to prolong the operating life of the HEPA filter. Two stages of prefiltration are required. Provide units with the following prefilters:
- A. First-stage prefilter: low-efficiency type (e.g., for particles 100 um and larger)
  - B. Second-stage (or intermediate) filter: medium efficiency (e.g., effective for particles down to 5 um)
- 2.1.6. Provide units with prefilters and intermediate filters installed either on or in the intake grid of the unit and held in place with special housings or clamps.
- 2.1.7. Instrumentation: Provide units equipped with:
- A. Magnehelic gauge or manometer to measure the pressure drop across filters and indicate when filters have become loaded and need to be changed
  - B. A table indicating the usable air-handling capacity for various static pressure readings on the Magnehelic gauge affixed near the gauge for reference, or the Magnehelic reading indicating at what point the filters should be changed, noting Cubic Feet per Minute (CFM) air delivery at that point
  - C. Elapsed time meter to show the total accumulated hours of operation
- 2.1.8. Safety and Warning Devices: Provide units with the following safety and warning devices:
- A. Electrical (or mechanical) lockout to prevent fan from operating without a HEPA filter
  - B. Automatic shutdown system to stop fan in the event of a rupture in the HEPA filter or blocked air discharge
  - C. Warning lights to indicate normal operation (green), too high a pressure drop across the filters (i.e., filter overloading) (yellow), and too low of a pressure drop (i.e., rupture in HEPA filter or obstructed discharge) (red)
  - D. Audible alarm if unit shuts down due to operation of safety systems
- 2.1.9. Electrical components: Provide units with electrical components approved by the National Electrical Manufacturers Association (NEMA) and Underwriter's Laboratories (UL). Each unit is to be equipped with overload protection sized for the equipment. The motor, fan, fan housing, and cabinet are to be grounded.

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PART 3 - EXECUTION

3.1 NEGATIVE PRESSURE SYSTEM ISOLATION

Isolate the Work Area from all adjacent areas or systems of the building with a pressure differential that will cause a movement of air from outside to inside at any breach in the physical isolation of the Work Area ("Negative Air").

3.1.1 Relative Pressure in Work Area: Continuously maintain the Work Area at an air pressure that is lower than that in any surrounding space in the building, or at any location in the immediate proximity outside of the building envelope. This pressure differential when measured across any physical or critical barrier must equal or exceed a static pressure of 0.02 inches of water.

3.1.2 Accomplish the pressure differential by exhausting a sufficient number of HEPA filtered fan units from the Work Area. The number of units required will depend on machine characteristics, the seal at barriers, and required air circulation. The number of units will increase with increased make-up air or leaks into the Work Area.

3.2 AIR CIRCULATION IN THE WORK AREA

3.2.1 Air Circulation: For purposes of this section air circulation refers to either the introduction of outside air to the Work Area or the cleaning of air within the Work Area.

3.2.2 Determining the Air Circulation Requirements: Provide a fully operational air circulation system supplying a minimum of four (4) air changes per hour.

3.2.3 Determine Number of Units needed to achieve required air circulation according to the following procedure:

A. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total air circulation requirement in cubic feet per minute (CFM) for the work area by multiplying this volume by the air change rate and dividing by 60.

Air Circulation Required in Cubic Feet of Air per Minute (CFM) =

$$\frac{\text{Volume of work area (cu. ft.)} \times \text{Number of air changes per hour}}{60 \text{ (minutes per hour)}}$$

B. Divide the air circulation requirement (CFM) above by capacity of HEPA filtered fan unit(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machine's labeled operating characteristics.

Number of Units Needed =  $\frac{\text{Air circulation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$

Add one (1) additional unit as a backup in case of equipment failure or machine shutdown for filter changing.

### 3.3. EXHAUST SYSTEM

Negative pressure isolation and air circulation in the Work Area are to be accomplished by an exhaust system as described below.

- 3.3.1. Exhaust all units from the Work Area to meet air circulation requirement of this section.
- 3.3.2. Location of HEPA Filtered Fan Units: Locate fan unit(s) so that makeup air enters work area primarily through decontamination facilities and traverses Work Area as much as possible. This may be accomplished by positioning the HEPA filtered fan unit(s) at a maximum distance from the worker access opening.
- 3.3.3. Vent to Outside of Building, unless authorized in writing by the Owner's Representative.
- 3.3.4. Window Openings: Windowpanes, which have to be removed temporarily, shall be reinstalled by a qualified tradesman at the completion of the work.
- 3.3.5. Decontamination Units: Arrange Work Area and decontamination units so that the majority of make up air comes through the Decontamination Units. Use only personnel or equipment Decontamination Unit at any time and seal the other so that make up air passes through unit in use.

### 3.4. AIR CIRCULATION IN DECONTAMINATION UNITS

- 3.4.1. Pressure Differential Isolation: Continuously maintain the pressure differential required for the work area in the:
  - A. Personnel Decontamination Unit: across the Shower Room with the Equipment Room at a lower pressure than the Clean room.
  - B. Equipment Decontamination Unit: Across the Holding Room with the Wash Room at a lower pressure than the Clean Room.
- 3.4.2. Air Circulation: Continuously maintain air circulation in Decontamination Units at same level as required for Work Area.
- 3.4.3. Air Movement: Arrange air circulation through the Personnel Decontamination Unit so that it produces a movement of air from the Clean Room through the Shower Room into the Equipment Room.

END OF SECTION - 01513

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## SECTION 01526 - TEMPORARY ENCLOSURES

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this section.

#### 1.2 SUBMITTALS

Before Start of Work submit the following to the Owner's Representative for review. Do not begin work until these submittals are returned with the Owner's Representative's approval indicating that the submittal is returned for unrestricted use.

- 1.2.1 Material Safety Data Sheet: Submit the Material Safety Data Sheet, or equivalent, in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for spray cement material proposed for use on the work. Include a separate attachment for each sheet indicating the specific worker protective equipment proposed for use with the material indicated.

### PART 2 - PRODUCTS

#### 2.1 SHEET PLASTIC

- 2.1.1 Polyethylene Sheet: Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mils thick as indicated, clear, frosted or black as indicated.

#### 2.2 MISCELLANEOUS MATERIALS

- 2.2.1 Duct Tape: Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which is formulated to stick aggressively to sheet polyethylene.
- 2.2.2 Spray Cement: Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

### PART 3 - EXECUTION

#### 3.1 SEQUENCE OF WORK

- 3.1.1 Carry out work of this section sequentially. Complete each activity before proceeding to the next.

#### 3.2 GENERAL

- 3.2.1 Work Area: One contiguous work location. A "Work Area" is considered contaminated during the work, and must be isolated from the balance of the building, and decontaminated at the completion of the asbestos-control work.
- 3.2.2 Completely isolate the Work Area from other parts of the building so as to prevent asbestos-containing dust or debris from passing beyond the isolated area. Should the area beyond the Work Area(s) become contaminated with asbestos-containing dust or debris as a consequence of the work, clean those areas in accordance with the procedures indicated in Section 01711. Perform all such required cleaning or decontamination at no additional cost to owner.

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- 3.2.3 Place all tools, scaffolding, staging, etc. necessary for the work in the area to be isolated prior to completion of Work Area isolation.
- 3.2.4 Remove all removable furniture that has been designated uncontaminated by the Contract Documents or Owner's Representative. Also remove uncontaminated equipment, and/or supplies from the Work Area before commencing work, or completely cover with two (2) layers of polyethylene sheeting, at least 6 mil in thickness, securely taped in place with duct tape. Such furniture and equipment shall be considered outside the work area unless covering plastic or seal is breached.
- 3.2.5 Disable ventilating systems or any other system bringing air into or out of the Work Area. Disable system by disconnecting wires, removing circuit breakers, by lockable switch or other positive means that will prevent accidental premature restarting of equipment.
- 3.2.6 Lockout power to Work Area by switching off all breakers serving power or lighting circuits in work area. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock panel and have all keys under control of Contractor's Superintendent or Owner's designated Representative.
- 3.2.7 Lockout power to circuits running through work area wherever possible by switching off all breakers or removing fuses serving these circuits. Label breakers with tape over breaker with notation "DANGER circuit being worked on". Lock panel and have all keys under control of Contractor's Superintendent or Owner's designated Representative. If circuits cannot be shut down for any reason, label at intervals 4'-0" on center with tags reading, "DANGER live electric circuit. Electrocutation hazard." Label circuits in hidden locations but which may be affected by the work in a similar manner.
- 3.2.8 Inspection Windows: Install inspection windows in locations shown on the plans or as directed by the Owner's Representative. Each inspection window is to have a 24" X 24" viewing area fabricated from 1/4" acrylic or polycarbonate sheet. Install window with top at 6'-6" above floor height in a manner that provides unobstructed vision from outside to inside of the Work Area. Protect window from damage from scratching, dirt or any coatings used during the work. A sufficient number of windows are to be installed to provide observation of all portions of the Work Area that can be made visible from adjacent areas. Inspection windows that open into uncontrolled area are to be covered with a removable plywood hatch secured by lock and key. Provide keys to Owner's Representative for all such locks.

### 3.3 EMERGENCY EXITS

Provide emergency exits and emergency lighting as set forth below:

- 3.3.1 Emergency Exits: At each existing exit door from the Work Area provide the following means for emergency exiting:
- A. Arrange exit door so that it is secure from outside the Work area but permits exiting from the Work Area.
  - B. Mark outline of door on Primary and Critical Barriers with luminescent paint at least 1" wide. Hang a razor knife on a string beside outline. Arrange Critical and Primary barriers so that they can be easily cut with one pass of razor knife. Paint words "EMERGENCY EXIT" inside outline with luminescent paint in letters at least one foot high and 2" thick.
  - C. Provide EXIT signs at each exit.

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- D. Provide battery-operated emergency lighting that switches on automatically in the event of a power failure.
- D. Mark arrows on poly barriers to indicate direction to exit.

3.4 CONTROL ACCESS

- 3.4.1 Isolate the Work Area to prevent entry by building occupants into Work Area or surrounding controlled areas. Accomplish isolation by the following:
  - A. Modify elevator controls to prevent elevators from stopping at doors in Work Areas. This work is to be performed by a qualified elevator technician.
- 3.4.2 Locked Access: Arrange Work Area so that the only access into Work Area is through lockable doors to personnel and equipment decontamination units.
- 3.4.3 Visual Barrier: Where the Work Area is immediately adjacent to or within view of occupied areas, provide a visual barrier of opaque polyethylene sheeting at least 6 mil in thickness so that the work procedures are not visible to building occupants. Where this visual barrier would block natural light, substitute frosted or woven rip-stop sheet plastic in locations approved by the Owner's Representative.
- 3.4.4 Provide Warning Signs at each locked door leading to Work Area reading as follows:
  - A. Immediately inside door and outside critical barriers post an approximately 20 inch by 14 inch manufactured caution sign displaying the following legend with letter sizes and styles of a visibility required by 29 CFR 1926.1101:

**DANGER**  
**ASBESTOS**  
**CANCER AND LUNG DISEASE HAZARD**  
**AUTHORIZED PERSONNEL ONLY**  
**RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED**  
**IN THIS AREA**

- B. Provide spacing between respective lines at least equal to the height of the respective upper line.

3.5 RESPIRATORY AND WORKER PROTECTION

Before proceeding beyond this point in providing Temporary Enclosures:

- 3.5.1 Provide Worker Protection per Section 01560
- 3.5.2 Provide Respiratory Protection per Section 01562
- 3.5.3 Provide Personnel Decontamination Unit per Section 01563

3.6 CRITICAL BARRIERS

- 3.6.1 Completely Separate the Work Area from other portions of the building and the outside by closing all openings with sheet plastic barriers at least 6 mil in thickness, or by sealing cracks leading out of Work Area with duct tape.

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- 3.6.2 Individually seal all ventilation openings (supply and exhaust), lighting fixtures, clocks, doorways, windows, convectors and speakers, and other openings into the Work Area with duct tape alone or with polyethylene sheeting at least 6 mil in thickness, taped securely in place with duct tape. Maintain seal until all work including Project Decontamination is completed. Take care in sealing of lighting fixtures to avoid melting or burning of sheeting.
- 3.6.3 Provide Sheet Plastic barriers at least 6 mil in thickness as required to seal openings completely from the Work Area into adjacent areas. Seal the perimeter of all sheet plastic barriers with duct tape or spray cement.
- 3.6.4 Mechanically Support sheet plastic independently of duct tape or spray cement seals so that seals do not support the weight of the plastic.
- 3.6.5 Provide Negative Pressure System per Section 01513.
- 3.6.6 Clean housings and ducts of all over spray materials prior to erection of any Critical Barrier that will restrict access.

### 3.7 PREPARE AREA

- 3.7.1 Scaffolding: If fixed scaffolding is to be used to provide access, HEPA vacuum and wet clean area prior to scaffolding installation.
- 3.7.2 Remove all electrical and mechanical items, such as lighting fixtures, clocks, diffusers, registers, escutcheon plates, etc. which cover any part of the surface to be worked on with the work, unless noted by the owner.
- 3.7.3 Clean All Surfaces In Work Area with a HEPA filtered vacuum or by wet wiping prior to the installation of primary barrier.

### 3.8 PRIMARY BARRIER

- 3.8.1 Protect building and other surfaces in the Work Area from damage from water and high humidity or from contamination from asbestos-containing debris, slurry or high airborne fiber levels by covering with a primary barrier as described below.
- 3.8.2 Protect windows: Cover windows with one layer of 6-mil sheet plastic. Cover sheet plastic with a thin but continuous coat of window or wall coating.
- 3.8.3 Sheet Plastic: Protect surfaces in Class I Work Areas with two (2) layers of plastic sheeting on floor and walls, or as otherwise directed on the Contract Drawings or in writing by the Owner's Representative. Perform work in the following sequence.
- 3.8.4 Cover Floor of Class I Work Areas with 2 individual layers of clear polyethylene sheeting, each at least 6 mil in thickness, turned up walls at least 12 inches. Form a sharp right angle bend at junction of floor and wall so that there is no radius, which could be stepped on causing the wall attachment to be pulled loose. Both spray-glue and duct tape all seams in floor covering. Locate seams in top layer six feet from, or at right angles to, seams in bottom layer. Install sheeting so that top layer can be removed independently of bottom layer.
- 3.8.5 Cover all walls in Class I Work Areas including "Critical Barrier" sheet plastic barriers with one layer of polyethylene sheeting; at least 6 mil in thickness, mechanically supported and sealed with duct tape or spray-glue in the same manner as "Critical Barrier" sheet plastic barriers. Class II work involving mastics will require the installation of splashguards.

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Tape all joints including the joining with the floor covering with duct tape or as otherwise indicated on the Contract Documents or in writing by the Owner's Representative. Install sheeting so that inner layer can be removed independently of bottom layer.

3.8.6 Repair of Damaged Polyethylene Sheeting; Remove and replace plastic sheeting, which has been damaged by removal operations or where seal has failed allowing water to seep between layers. Remove affected sheeting and wipe down entire area. Install new sheet plastic only when area is completely dry.

3.9 STOP WORK

If the Critical or Primary barrier falls or is breached in any manner stop work immediately. Do not start work until authorized in writing by the Owner's Representative.

3.10 EXTENSION OF WORK AREA

If the Critical Barrier is breached in any manner that could allow the passage of asbestos debris or airborne fibers; then add affected area to the Work Area, enclose it as required by this Section of the specification and decontaminate the affected area as described in Section 01711 Project Decontamination.

3.11 SECONDARY BARRIER

Secondary layer of plastic as a drop cloth to protect the primary layer from debris generated by the asbestos abatement work is specified in the appropriate work sections.

3.12 EXTERIOR ENCLOSURES

Construct exterior enclosures as a Critical Barrier, as necessary, to completely enclose the work. Fabricate from reinforced polyethylene sheeting and wood framing with appropriate sized lumber. Attach to existing building components or brace as necessary for lateral stability. Construct walls to meet all state and local regulations for construction of temporary buildings. Construct to resist a wind of 30 MPH; slope ceiling to permit drainage of rainwater.

END OF SECTION - 01526

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## SECTION 01560 - WORKER PROTECTION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

This section describes the equipment and procedures required for protecting workers against asbestos contamination and other workplace hazards except for respiratory protection.

#### 1.3 RELATED WORK SPECIFIED ELSEWHERE

1.3.1 Respiratory Protection: Is specified in Section 01562.

#### 1.4 WORKER TRAINING

1.4.1 AHERA Accreditation: All workers are to be accredited as Abatement Workers as required by the Asbestos Model Accreditation Plan, 40 CFR 763 Appendix C to Subpart E.

1.4.2 State and Local License: All workers are to be trained, certified and accredited as required by state or local code or regulation.

1.4.3 Training: In accordance with 29 CFR 1926.1101, CCR Title 8, Section 1529, and local regulations, train all workers shall be trained in the dangers inherent in handling asbestos and breathing asbestos dust and in proper work procedures and personal and area protective measures.

#### 1.5 MEDICAL EXAMINATIONS

Provide medical examinations for all workers who may encounter an airborne fiber level of 0.1 f/cc or greater for an 8 hour Time Weighted Average. In the absence of specific airborne fiber data provide medical examinations for all workers who will enter the Work Area for any reason. Examination shall as a minimum meet OSHA requirements as set forth in 29 CFR 1926.1101 and CCR Title 8, Section 1529.

#### 1.6 SUBMITTALS

Before Start of Work: Submit the following to the Owner's Representative for review. Do not start work until these submittals are returned with Owner's Representative's approval indicating that the submittal is returned for unrestricted use.

1.6.1 Asbestos Worker Accreditation: Submit a letter certifying that all personnel used on this project are properly trained and accredited as required in 29 CFR 1296.1101 and CCR Title 8, 1529. The certification must be signed by an officer of the company, and must also state that all personnel are medically approved to work and use respiratory protection.

1.6.2 State and Local License: Submit evidence of State licensing to perform asbestos removal work.

1.6.3 Notarized Certifications: Submit certification signed by an officer of the abatement contracting firm and notarized that exposure measurements, medical surveillance,

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and worker training records are being kept in conformance with 29 CFR 1926.1101.

## PART 2 - EQUIPMENT

### 2.1 PROTECTIVE CLOTHING

- 2.1.1 Coveralls: Provide disposable full-body coveralls and disposable head covers, and require that they be worn by all workers in the Work Area. Provide a sufficient number for all required changes, for all workers in the Work Area. During Class II work, workers shall wear two layers of disposable full-body coveralls.
- 2.1.2 Boots: Provide work boots with non-skid soles, and where required by OSHA, foot protection, for all workers. Provide boots at no cost to workers. Do not allow boots to be removed from the Work Area for any reason, after being contaminated with asbestos-containing material. Dispose of boots, which have not been decontaminated as asbestos-contaminated waste at the end of the work.
- 2.1.3 Hard Hats: Provide head protection (hard hats) as required by OSHA for all workers, and provide 4 spares for use by Owner's Representative, Project Administrator, and Owner. Label hats with same warning labels as used on disposal bags. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury. Provide hard hats of type with plastic strap type suspension. Require hats to remain in the Work Area throughout the work. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work.
- 2.1.4 Goggles: Provide eye protection (goggles or full face piece respirators) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury. Thoroughly clean, decontaminate and bag eye protection before removing them from Work Area at the end of the work.
- 2.1.5 Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area and dispose of as asbestos-contaminated waste at the end of the work.

### 2.2 ADDITIONAL PROTECTIVE EQUIPMENT

Respirators, disposable coveralls, head covers, and footwear covers shall be provided by the Contractor for the Owner, Owner's Representative, Project Administrator, and other authorized representatives who may inspect the job site.

## PART 3 - EXECUTION

### 3.1 GENERAL

Provide worker protection as required by the most stringent OSHA and/or EPA standards applicable to the work. The following procedures are minimums to be adhered to regardless of fiber count in the Work Area.

- 3.1.1 Each time Work Area is entered remove all street clothes in the Clean Room of the Personnel Decontamination Unit and put on new disposable overall, or reusable overall (to be donned in Equipment Room), new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.

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## 3.2 DECONTAMINATION PROCEDURES

3.2.1 The project involves both Class I and Class II activities. Full decontamination including showers is required for class I activities. Class II work requires workers where double suits and decontamination will consist of two chambered air locks, with HEPA vacuum and wash down buckets. Require all workers to adhere to the following personal decontamination procedures whenever they leave a Class I Work Area:

3.2.2 When using Powered Air-Purifying Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving the Work Area:

A. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.

B. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid asbestos fibers while showering. The following procedure is required as a minimum:

1. Thoroughly wet body including hair and face. If using a Powered Air-Purifying Respirator (PAPR) hold blower unit above head to keep canisters dry.
2. With respirator still in place thoroughly wash body, hair, respirator face piece, and all parts of the respirator except the blower unit and battery pack on a PAPR. Pay particular attention to seal between face and respirator and under straps.
3. Take a deep breath; hold it and/or exhale slowly, completely wet hair, face, and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.
4. Carefully wash facepiece of respirator inside and out.
5. If using PAPR, shut down in the following sequence: first cap inlets to filter cartridges, and then turn off blower unit (this sequence will help keep debris which has collected on the inlet side of filter from dislodging and contaminating the outside of the unit). Thoroughly wash blower unit and hoses. Carefully wash battery pack with wet rag. Be extremely cautious of getting water in battery pack as this will short out and destroy battery.
6. Shower completely with soap and water.
7. Rinse thoroughly.
8. Rinse shower room walls and floor prior to exit.
9. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

3.2.3 When using Air Purifying-Negative Pressure Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving a Class I Work Area with a half or full face cartridge type respirator:

A. When exiting area, remove coveralls, disposable headcovers, and disposable footwear covers or boots in the Equipment Room.

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B. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator and filters to avoid asbestos fibers while showering. The following procedure is required as a minimum:

1. Thoroughly wet body from neck down.
2. Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
3. Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, and respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breathe.
4. Dispose of wet filters from air purifying respirator.
5. Carefully wash facepiece of respirator inside and out.
6. Shower completely with soap and water.
7. Rinse thoroughly.
8. Rinse shower room walls and floor prior to exit.

C. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

#### 3.2.4 Within Work Area

Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area. To eat, chew, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-Work Areas of the building.

END OF SECTION - 01560

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## SECTION 01562 - RESPIRATORY PROTECTION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

Instruct and train each worker involved in asbestos abatement or maintenance and repair of friable asbestos-containing materials in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face, in the Work Area from the start of any operation which may cause airborne asbestos fibers until the Work Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the work place or as required for other toxic or oxygen-deficient situations encountered.

#### 1.3 STANDARDS

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

1.3.1 OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910.1001, 1910.134, and 1926.1101.

1.3.2 Cal-OSHA - California Division for Labor Occupational Safety and Health, CCR Title 8, 1529.

1.3.3 CGA - Compressed Gas Association, Inc., New York, Pamphlet G-7, "Compressed Air for Human Respiration", and Specification G-7.1 "Commodity Specification for Air"

1.3.4 ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980

1.3.5 NIOSH - National Institute for Occupational Safety and Health

1.3.6 MSHA - Mine Safety and Health Administration

1.3.7 Other Federal, state and/or local regulations as required

#### 1.6 DELIVERY

Deliver replacement parts, etc., not otherwise labeled by NIOSH or MSHA to job site in manufacturer's containers.

### PART 2 - EQUIPMENT

#### 2.1 AIR PURIFYING RESPIRATORS

2.1.1 Respirator Bodies: Provide half face or full-face type respirators. Equip full-face respirators with a nose cup or other anti-fogging device as would be appropriate for use in air temperatures less than 32 degrees Fahrenheit.

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- 2.1.2 Filter Cartridges: Provide, at a minimum, P-100 type filters labeled with NIOSH Certification. In addition, a chemical cartridge section may be added, if required, for solvents, etc., in use. In this case, provide cartridges that have each section of the combination canister labeled with the appropriate color code and NIOSH Certification.
- 2.1.3 Non-permitted respirators Do not use single use, disposable or quarter face respirators.

### PART 3 - EXECUTION

#### 3.1 GENERAL

- 3.1.1 Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910 and 1926.
- 3.1.2 Require that respiratory protection be used at all times that there is any possibility of disturbance of asbestos-containing materials whether intentional or accidental.
- 3.1.3 Require that a respirator be worn by anyone in a Work Area at all times, regardless of activity, during a period that starts with any operation which could cause airborne fibers until the area has been cleared for re-occupancy in accordance with Section 01714.
- 3.1.4 Regardless of Airborne Fiber Levels: Require that the minimum level of respiratory protection used be half-face air-purifying respirators with high efficiency filters.
- 3.1.5 Do not allow the use of single-use, disposable, or quarter-face respirators for any purpose.

#### 3.2 FIT TESTING

- 3.2.1 Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training. Fit types of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing have been provided.
- 3.2.2 On a Weekly Basis, check the fit of each worker's respirator by having irritant smoke blown onto the respirator from a smoke tube.
- 3.2.3 Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

#### 3.3 TYPE OF RESPIRATORY PROTECTION REQUIRED

- 3.3.1 Provide Respiratory Protection as indicated in paragraph below. Higher levels of protection may be provided as desired by Contractor, or as directed by Owner's representative. Where paragraph below does not apply, determine the proper level of protection by dividing the expected or actual airborne fiber count in the Work Area by the "protection factors" given below. The level of respiratory protection, which supplies an airborne fiber, level inside the respirator, at the breathing zone of the wearer, at or below 0.01 f/cc is the minimum level of protection allowed.
- 3.3.2 Use the following as a minimum unless air-monitoring results indicate greater protection is necessary. Refer to Protection Factors table for choice of respirators.
- A. Loose equipment cleaning prior to removal in uncontaminated area: Half-

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- OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910.134.
- ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980
- NIOSH - National Institute for Occupational Safety and Health
- MSHA - Mine Safety and Health Administration
- Other Federal, state and/or local regulations as required

Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910.

Regardless of Airborne Spore Concentrations: Require that the minimum level of respiratory protection used be half-face air-purifying respirators with high efficiency filters.

#### FIT TESTING

Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training. Fit types of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing have been provided.

On a Weekly Basis, check the fit of each worker's respirator by having irritant smoke blown onto the respirator from a smoke tube.

Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

### 8.0 HYGIENE

Provide separate Personnel and Equipment Decontamination facilities. Require that the Personnel Decontamination Unit be the only means of ingress and egress for the Work Area. Require that all materials exit the Work Area through the Equipment Decontamination Unit. The Decontamination Unit will be constructed with the following materials:

#### POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mils thick as indicated, frosted or black as indicated.

#### DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

#### SPRAY ADHESIVE

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

#### SHOWER PAN

Provide one piece waterproof shower pan of appropriate size. Fabricate from seamless fiberglass minimum 1/16" thick reinforced with wood, 18 gal. stainless or galvanized steel with welded seams, copper or lead with soldered seams, or a seamless liner of minimum 60 mil thick elastomeric membrane.

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Goggles: Provide eye protection (goggles or full face piece respirators) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury. Thoroughly clean, decontaminate and bag eye protection before removing them from Work Area at the end of the work.

Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area and dispose of as mold/fungi-contaminated waste at the end of the work.

### RESPIRATORY PROTECTION

Instruct and train each worker, involved in mold/fungi abatement or maintenance and repair of building materials that are contaminated with mold/fungi, in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face, in the Work Area from the start of any operation which may cause airborne spores until the Work Area is completely decontaminated.

Use respiratory protection appropriate for the fiber level encountered in the work place or as required for other toxic or oxygen-deficient situations encountered.

### AIR PURIFYING RESPIRATORS

Respirator Bodies: Provide half face or full-face type respirators. Equip full-face respirators with a nose cup or other anti-fogging device as would be appropriate for use in air temperatures less than 32 degrees Fahrenheit.

Filter Cartridges: Provide, at a minimum, CD/CL/HC/HF/OV/SD/P100 cartridges. The cartridge protects against chlorine dioxide, chlorine, hydrogen chloride, hydrogen fluoride, organic vapor, sulfur dioxide and provides a HEPA filter to protect against particulates.

Negative pressure - half or full face mask: Supply a sufficient quantity of respirator CD/CL/HC/HF/OV/SD/P100 cartridges. The cartridge protects against chlorine dioxide, chlorine, hydrogen chloride, hydrogen fluoride, organic vapor, sulfur dioxide and provides a HEPA filter to protect against particulates, so that workers can change filters during the workday. Require that respirators are wet-rinsed, and filters discarded, each time a worker leaves the Work Area. Require that new filters be installed each time a worker re-enters the Work Area. Store respirators and with cartridges at the job site in the changing room and protect totally from exposure to mold/fungi prior to their use.

Powered air purifying - half or full face mask: Supply a sufficient quantity of high efficiency respirator filters (preferably approved for asbestos) so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement. Require that regardless of flow, filter cartridges be replaced after 40 hours of use. Require that HEPA elements in filter cartridges be protected from wetting during showering. Require entire exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, be washed each time a worker leaves the Work Area. Caution should be used to avoid shorting battery pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

Non-permitted respirators Do not use single use, disposable or quarter face respirators.

### STANDARDS

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

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affected. The Owner's Representative will decide whether to issue a Change Order to proceed with the updated standard.

**Conflicting Requirements:** Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner's Representative for a decision before proceeding.

- A. **Minimum Quantities or Quality Levels:** In every instance, the quantity or quality level shown or specified shall be the minimum to be provided or performed. The actual installation may comply exactly, within specified tolerances, with the minimum quantity or quality specified, or it may exceed that minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum values, as noted, as appropriate for the context of the requirements. Refer instances of uncertainty to the Owner's Representative for decision before proceeding.

**Copies of Standards:** Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entities' construction activity. Copies of applicable standards are not bound with the Contract Documents.

- A. Where copies of standards are needed for performance of a required construction activity, the Contractor shall obtain copies directly from the publication source.
- B. Although copies of standards needed for enforcement of requirements may be part of required submittals, the Owner's Representative reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.

**Abbreviations and Names:** Trade association names and titles of general standards are frequently abbreviated. Where acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association, standards generating organization, authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the "Encyclopedia of Associations," published by Gale Research Co., available in most libraries.

**Trade Union Jurisdictions:** Assign and subcontract construction activities, and employ tradesmen and laborers in a manner that will not unduly risk jurisdictional disputes that could result in conflicts, delays, claims and losses.

## 5.0 POTENTIAL AIRBORNE HAZARD

Where in the performance of the work, workers, supervisory personnel, or consultants may encounter, disturb, or otherwise function in the immediate vicinity of any identified airborne hazard, take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to airborne contaminants. Such measures shall include the procedures and methods described herein, and compliance with regulations of applicable federal, state, and local agencies.

## 6.0 Not Used

## 7.0 PERSONEL PROTECTIVE EQUIPMENT (PPE)

Respirators, disposable coveralls, head covers, and footwear covers shall be provided by the Contractor for the Owner, Owner's Representative, Project Administrator, and other authorized representatives who may inspect the job site.

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- B. Imperative language is used generally in the Specifications. Requirements expressed imperatively are to be performed by the Contractor. At certain locations in the text, for clarity, subjective language is used to describe responsibilities, which must be fulfilled indirectly by the Contractor, or by others when so noted.

Assignment of Specialists: The Specification requires that specialists who are recognized experts in the operations to be performed shall perform certain specific construction activities. The specialists must be engaged for those activities, and the assignments are requirements over which the Contractor has no choice or option. Nevertheless, the ultimate responsibility for fulfilling Contract requirements remains with the Contractor.

- A. This requirement should not be interpreted to conflict with enforcement of building codes or regulations governing the work. It is also not intended to interfere with local trade union jurisdictional settlements and similar conventions.
- B. Trades: Use of titles such as "carpentry" is not intended to imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to trades persons of the corresponding generic name.

#### 4.0 INDUSTRY STANDARDS

Applicability of Standards: Except where Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into Contract Documents. Such standards are made a part of the Contract Documents by reference. Individual Sections indicate which codes and standards the Contractor must keep available at the Project Site for reference.

- A. Referenced industry standards take precedence over standards that are not referenced but recognized in the construction industry as applicable.
- B. Unreferenced industry standards are not directly applicable to the work, except as a general requirement of whether the work complies with recognized construction industry standards.

Publication Dates: Where compliance with an industry standard is required, comply with standard in effect as of date of execution of the work.

- A. Updated Standards: At the request of the Owner's Representative, Contractor may submit a Change Order proposal where applicable code or standard has been revised and reissued after the date of the Contract Documents and before performance of Work affected. The Owner's Representative will decide whether to issue a Change Order to proceed with the updated standard.

Conflicting Requirements: Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner's Representative for a decision before proceeding.

- A. Minimum Quantities or Quality Levels: In every instance, the quantity or quality level shown or specified shall be the minimum to be provided or performed. The actual installation may comply exactly, within specified tolerances, with the minimum quantity or quality specified, or it may exceed that minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum values, as noted, as appropriate for the context of the requirements. Refer instances of uncertainty to the Owner's Representative for decision before proceeding.

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SECTION 02089 – Removal & Disposal of Universal Waste (Flourescent Light Tubes, PCB Containing Ballast, and Mercury)

PART 1 - GENERAL

1.0 SUBMITTALS

For the Owner's records, the Contractor shall submit all applicable licensing and health and safety information. This information shall include but shall not be limited to the California State Contractors License, worker training certificates (Provide right-to-know training on exposure to the chemicals used and the health effects of exposure to Florescent Light Tubes and PCB Containing Ballast), current respirator fit test records and current medical clearance letters. Training, respirator fit testing and medical surveillance documentation need only be supplied for the actual personnel assigned to the project. Submit copies of permits, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the work.

2.0 PROJECT SCOPE OF WORK

It is suspected that during the hazardous material abatement or work activities, Florescent Light Tubes, PCB Containing Ballast and Mercury will be discovered. If Florescent Light Tubes and PCB Containing Ballast are observed during any abatement activities then the following will apply.

This is regarded as a performance based specification and does not specify quantities or exact means and methods to remove the Florescent Light Tubes, PCB Containing Ballast and Mercury may be found during the scheduled work activities. The specification does provide in detail the requirements for protection of building components, controlling the migration of airborne contaminants, and packaging of waste materials. The work involves areas where Florescent Light Tubes, PCB Containing Ballast and Mercury have been identified, presumed or assumed during the abatement activities. All work conducted on this project will be conducted in accordance with applicable Federal, State and local regulations at the time the work is conducted. It will be the contractor's responsibility to know all specific regulations and requirements pertaining to this project.

Abbreviated Written Summary: Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:

General: The project consists of properly removing all Florescent Light Tubes, PCB Containing Ballast and Mercury throughout the facility.

MTGL, Inc. assumes no liability or responsibility for damages that may occur from the contractors actions.

3.0 SPECIFICATION FORMAT AND CONTENT EXPLANATION

This Article is provided to help the user of these Specifications understand the format, language, implied requirements, and similar conventions. None of the explanations shall be interpreted to modify the substance of Contract requirements.

Specification Content: This Specification has been produced employing conventions in the use of language and the intended meaning of certain terms, words, and phrases when used in particular situations or circumstances. These conventions are explained as follows:

- A. Language used in the Specifications and other Contract Documents is the abbreviated type. Implied words and meanings will be appropriately interpreted. Singular words will be interpreted as plural and plural words interpreted as singular where applicable and where the full context of the Contract Documents so indicates.

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uncontaminated areas of the building. There are no special requirements for the disposal of moldy materials. Moldy materials that are bagged can be disposed of with other general waste.

Dirt, debris, and broken plaster (if any) may be placed in 55-gallon drums inside the containment area. Before removal from the containment area, close the drum and clean the outside surface.

#### 14.0 CLEANING OF THE CONTAINMENT AREA

The contained area and decontamination room should be HEPA vacuumed and cleaned with a damp cloth and/or mop with detergent solution and be visibly clean prior to the removal of isolation barriers.

#### 15.0 FINAL INSPECTION

Prior to re-occupancy of the space, a visual inspection and or air sampling will be conducted by MTGL, Inc. or a designated representative 48 hours after the completion of the cleaning and/or the removal. Re-occupancy may occur when the space passes the inspection and air sample results indicating growth and airborne spore concentrations lower than that of the exterior of the building.

#### CONTRACTOR RELEASE CRITERIA

The Work Area is cleared when the Work Area is visually clean, mold/fungi growth and airborne mold/fungi spore concentrations have been reduced to the level below that of the exterior of the building.

#### RE-SAMPLING

If, for any reason, the Final Clearance Samples do not meet the minimum clearance requirements, re-cleaning and re-sampling must be accomplished. The additional cost of re-sampling and re-analysis will be taken on by the Removal Contractor and the method of sampling and analysis will be the same as that used for the first set of samples.

#### 16.0 DISPOSAL OF MOLD/FUNGI CONTAMINATED WASTE MATERIAL

At this time, there is no specific requirement for the disposal of mold/fungi-contaminated materials. All disposal will be conducted in accordance with Federal, State & local regulations that are applicable at the time of removal.

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the HEPA filtered fan unit(s) in each corner of the facility with each unit facing the exhaust of the unit in front of it.

#### AIR CIRCULATION IN DECONTAMINATION UNITS

Air Circulation: Continuously maintain air circulation in Decontamination Units at same level as required for Work Area.

Air Movement: Arrange air circulation through the Personnel Decontamination Unit so that it produces a movement of air away from the work area.

#### 12.0 REMOVAL

Thoroughly wet to satisfaction of Owner's Representative mold/fungi contaminated materials to be removed prior to stripping and/or tooling to reduce spore dispersal into the air. Accomplish wetting by a fine spray (mist) of water amended with a 10% bleach solution or disinfectant. Saturate material sufficiently to wet to the substrate without causing excess dripping. Allow time for amended water or disinfectant to penetrate material thoroughly. If amended water is used, spray material repeatedly during the work process to maintain a continuously wet condition. If a disinfectant is used, apply in strict accordance with manufacturer's written instructions. Perforate outer covering of any installation which has been painted and/or jacketed in order to allow penetration of amended water or disinfectant, or use injection equipment to wet material under the covering. Where necessary, carefully strip away while simultaneously spraying amended water or disinfectant on the installation to minimize dispersal of spores into the air.

Mist work area continuously with amended water whenever necessary to reduce airborne spore levels.

Scrub clean or remove saturated mold/fungi contaminated material in small sections from all areas. Do not allow material to dry out. If the material is removed, simultaneously pack material while still wet into disposal bags. Evacuate air from disposal bags with a HEPA filtered vacuum cleaner before sealing. Twist neck of bags, bend over and seal with minimum three wraps of duct tape. Clean outside and move to Wash Down Station adjacent to Material Decontamination Unit.

Impermeable dropcloths shall be placed on surfaces beneath all removal activity. Dropcloths shall extend horizontally in all directions one foot for every vertical foot the work surface is above the floor.

Keep HEPA exhaust fan on during the application of bleach and Foster's 40/20 anti-microbial paint or equivalent. Make sure adjacent outside windows are shut, the discharge is not close to an air intake.

Exhaust fan discharge is inside building – Do not shut off HEPA exhaust fan during the application of bleach and Foster's 40/20 anti-microbial paint.

Applying bleach to visible fungal growth prior to cleaning or removal of material. Apply the bleach solution to the surface and wait two to five minutes prior to removing the material. This provides sufficient time for the bleach to disinfect the material and reduces the dust generated because the material is wetted.

In some cases, a surface is lightly misted with a bleach solution prior to painting with Foster's 40/20 or equivalent. Painting of the surface may begin within five minutes of the bleach misting.

#### 13.0 REMOVAL OF CONTAINMENT MATERIALS

Containment materials that cannot be cleaned should be removed from the building in sealed plastic bags. The outside of the bags should be cleaned with a damp cloth and a detergent solution or HEPA vacuumed in the decontamination chamber prior to their transport to

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Indicated, frosted or black as indicated.

#### DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

#### SPRAY CEMENT

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

#### DISPOSAL BAGS

Provide 6-mil thick leak-tight polyethylene bags for disposal of mold/fungi-contaminated waste material.

Relative Pressure in Work Area: Continuously maintain the Work Area at an air pressure that is equal to or higher than that outdoors, or at any location in the immediate proximity outside of the building envelope.

Accomplish the pressure differential by exhausting a sufficient number of HEPA filtered fan units in the Work Area. The number of units required will depend on machine characteristics, the seal at barriers, and required air circulation.

#### AIR CIRCULATION IN THE WORK AREA

Air Circulation: For purposes of this section air circulation refers to either the introduction of outside air to the Work Area or the cleaning of air within the Work Area.

Determine Number of Units needed to achieve required air circulation according to the following procedure:

- A. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total air circulation requirement in cubic feet per minute (CFM) for the work area by multiplying this volume by the air change rate and dividing by 60.

Air Circulation Required in Cubic Feet of Air per Minute (CFM) =

$$\frac{\text{Volume of work area (cu. ft.)} \times \text{Number of air changes per hour}}{60 \text{ (minutes per hour)}}$$

- B. Divide the air circulation requirement (CFM) above by capacity of HEPA filtered fan unit(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machine's labeled operating characteristics.

Number of Units Needed =  $\frac{\text{Air circulation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$

#### EXHAUST SYSTEM

Air circulation in the Work Area is to be accomplished by an exhaust system as described below.

Exhaust all units from the Work Area to meet air circulation requirement of this section.

Location of HEPA Filtered Fan Units: Locate fan unit(s) so that the air in the work area primarily traverses through the Work Area as much as possible. This may be accomplished by positioning

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B. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator and filters to avoid mold/fungi ingestion or inhalation fibers while showering. The following procedure is required as a minimum:

1. Thoroughly wet body from neck down.
2. Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
3. Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, and respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breathe.
4. Dispose of wet filters from air purifying respirator.
5. Carefully wash face piece of respirator inside and out.
6. Shower completely with soap and water.
7. Rinse thoroughly.
8. Rinse shower room walls and floor prior to exit.

C. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

In the change area, dry off the respirator. Remove the cartridges. Clean the surfaces of the cartridges with a disinfectant wipe and keep the cartridges for reuse. Soak and clean the respirator in a gallon of disinfectant (1/2 oz. A-33 quaternary ammonium disinfectant per gallon of water). Rinse the respirator in water, clean with a disinfectant wipe and dry with a clean towel.

#### Within Work Area

Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area. To eat, chew, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-Work Areas.

After an exhaust fan with a HEPA filter is used on a job site, the prefilter is to be covered with 4 - 6 mil poly and sealed with duct tape.

### 10.0 CONTAINMENT OF AFFECTED AREA

Completed isolation of work area from occupied spaces or outdoors using plastic (4-6 mil poly) sheeting sealed with duct tape (including ventilation ducts/grills, fixtures and other openings).

Use an exhaust fan with a HEPA filter to generate air circulation inside the work area scrubbing the air of mold/fungi particulates. Use the appropriate sized unit for the space. Do not use the same units for Asbestos and mold removal. If units are shared, a break in the HEPA filter could change a mold containment into an Asbestos containment. Do not create negative pressure inside the work area. This may cause outdoor mold/fungi to be drawn into the work area.

### 11.0 CONTROL OF EXPOSURE TO ADJACENT AREAS

#### POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mil thick as

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the former Clean Room as an inner section of the new Equipment Room.

#### MAINTENANCE OF DECONTAMINATION UNITS

Inspect all seals and doorways prior to each work shift and as indicated by conditions throughout removal. Repair immediately if necessary. Clean and dry decontamination units at the end of each work shift.

Each time Work Area is entered remove all street clothes in the Clean Room of the Personnel Decontamination Unit and put on new disposable coverall, or reusable coverall (to be donned in Equipment Room), new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.

#### DECONTAMINATION PROCEDURES

Full decontamination including showers is required for these activities. Require all workers to adhere to the following personal decontamination procedures whenever they leave the work area:

- A. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.
- B. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid inhalation or ingestion of mold/fungi while showering. The following procedure is required as a minimum:
  1. Thoroughly wet body including hair and face. If using a Powered Air-Purifying Respirator (PAPR) hold blower unit above head to keep canisters dry.
  2. With respirator still in place thoroughly wash body, hair, respirator face piece, and all parts of the respirator except the blower unit and battery pack on a PAPR. Pay particular attention to seal between face and respirator and under straps.
  3. Take a deep breath, hold it and/or exhale slowly, completely wet hair, face, and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.
  4. Carefully wash face piece of respirator inside and out.
  5. If using PAPR, shut down in the following sequence: first cap inlets to filter cartridges, and then turn off blower unit (this sequence will help keep debris which has collected on the inlet side of filter from dislodging and contaminating the outside of the unit). Thoroughly wash blower unit and hoses. Carefully wash battery pack with wet rag. Be extremely cautious of getting water in battery pack as this will short out and destroy battery.
  6. Shower completely with soap and water.
  7. Rinse thoroughly.
  8. Rinse shower room walls and floor prior to exit.
  9. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

When using Air Purifying-Negative Pressure Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving a mold/fungi contaminated Work Area with a half or full face cartridge type respirator:

- A. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.

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### Holding Room

- A. Provide Holding Room as a drop location for bagged mold/fungi contaminated materials passed from the Wash Room.
- B. Separate this room from the adjacent rooms by flapped doors fabricated from 1/16" +/- thick single ply elastomeric membrane material either EPDM or Neoprene or by 6-mil sheet plastic.

Clean Room: Provide Clean Room to isolate the Holding Room from the building exterior. If possible, locate to provide direct access to the Holding Room from the building exterior.

- A. Erect Critical and Primary Barriers "Temporary Enclosures" in an existing space. If no space exists, construct Clean Room of wood framing of appropriate size and polyethylene sheeting, at least 6-mil in thickness.
- B. Separate this room from the exterior by a single flap door of 6-mil polyethylene sheeting.

### Load-out Area

- A. The load-out area is the transfer area from the building to a truck or dumpster. It may be the Clean Room of the Equipment Decontamination unit or a separate room or loading dock area. Erect Critical and Primary barriers "Temporary Enclosures" in load-out area.
- B. During transfer of material from load-out area erect primary barriers "Temporary Enclosures" as necessary to seal path from load-out area to truck or dumpster.
- C. Provide a lockable door to secure the work area during non-work hours.

Decontamination Sequence: Take all equipment or material from the Work Area through the Equipment Decontamination Unit according to the following procedure:

- A. At wash down station, thoroughly wet clean contaminated equipment or sealed polyethylene bags and pass into Wash Room.
- B. When passing equipment or containers into the Wash Room, close all doorways of the Equipment Decontamination Unit, other than the doorway between the Wash down Station and the Wash Room. Keep all outside personnel clear of the Equipment Decontamination Unit.
- C. Once inside the washroom, wet clean the bags and/or equipment.
- D. When cleaning is complete, pass items into Holding Room. Close all doorways except the doorway between the Holding room and the Clean Room.
- E. Workers from the building exterior enter Holding Area and remove decontaminated equipment and/or containers for disposal.
- F. Require these workers to wear full protective clothing and appropriate respiratory protection.
- G. At no time is a worker from an uncontaminated area to enter the enclosure when a removal worker is inside.

### CLEANING OF DECONTAMINATION UNITS

Clean debris and residue from inside of Decontamination Units on a daily basis or as otherwise indicated on Contract Drawings. Damp wipe or hose down all surfaces after each shift change. Clean debris from shower pans on a daily basis.

If the Clean Room of the Personnel Decontamination Unit becomes contaminated with mold/fungi-contaminated debris, abandon the entire Decontamination Unit and erect a new Decontamination Unit. Use

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intermediate cleaning space between the Equipment Room and the Work Area. Damp wipe clean all surfaces after each shift change.

Decontamination Sequence: Require that all workers adhere to the following sequence when entering or leaving the Work Area.

Entering Work Area: Worker enters Clean Room and removes street clothing, puts on protective overalls and respirator, and passes through the Shower Room into the Equipment Room.

- Any additional clothing and equipment left in Equipment Room needed by the worker are put on in the Equipment Room.
- Worker proceeds to Work Area.

Exiting Work Area

- Before leaving the Work Area, require the worker to remove all gross contamination and debris from overalls and feet.
- The worker then proceeds to the Equipment Room and removes all clothing except respiratory protection equipment.
- Extra work clothing such as boots, hard hats, goggles, gloves are to be stored in contaminated end of the Equipment Room.
- Disposable coveralls are placed in a bag for disposal with other material.
- Require that Decontamination procedures found in this specification be followed by all individuals leaving the Work Area.
- After showering, the worker moves to the Clean Room and dresses in either new coveralls for another entry or street clothes if leaving.

#### EQUIPMENT DECONTAMINATION UNIT

Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, Clean Room, Holding Room, Wash Room for removal of equipment and material from Work Area. Do not allow personnel to enter or exit Work Area through Equipment Decontamination Unit.

Arrange as follows:

Wash Down Station: Provide an enclosed Shower Unit located in Work Area just outside Wash Room as an equipment, bag and container cleaning station.

Wash Room: Provide washroom for cleaning of bagged or containerized mold/fungi contaminated waste materials passed from the Work Area.

- A. Construct wash room of wood framing of appropriate sized lumber and polyethylene sheeting, at least 6 mil in thickness and located so that packaged materials, after being wiped clean, can be passed to the Holding Room.
- B. Separate this room from the Work Area by a single flapped door of 6-mil polyethylene sheeting.
- C. Provide a drop cloth layer of plastic on floor in the Wash Room for every load-out operation. Roll this drop cloth layer of plastic from Wash Room into Work Area after each load-out. Provide a minimum of two (2) layers of plastic at all times. Use only clear plastic to cover floors.

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workers.

- A. Separate this room from Shower Room and Clean Room by sheet plastic flapped doorways.
- B. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- C. Separate this room from the Shower Room and Clean Rooms with airtight walls fabricated of 6-mil polyethylene.

Shower Room: Provide a watertight operational shower to be used for transit by cleanly dressed workers heading for the Work Area from the Clean Room, or for showering by workers headed out of the Work Area after undressing in the Equipment Room.

- A. Construct room by providing a shower pan and two shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.
- B. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- C. Separate this room from the Clean Room and Equipment Room with airtight walls fabricated of 6-mil polyethylene.
- D. Provide splash proof entrances.
- E. Provide showerhead and controls.
- F. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.
- G. Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition. Provide liquid shampoo.
- H. Arrange so that water from showering does not splash into the Clean or Equipment Rooms.
- I. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the Work Area.
- J. Pump wastewater to drain. Provide 20 micron and 5 micron wastewater filters in line to drain or waste water storage. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.
- K. Provide hose bib.

Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers.

Separate this room from the Work Area by a 6-mil polyethylene flapped doorway.

Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.

Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6-mil polyethylene.

Provide a container for collection of used protective clothing.

Work Area: Separate Work Area from the Equipment Room by polyethylene barriers. If the airborne mold/fungi spore level in the Work Area is expected to be high, as in dry removal, add an

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capable of pumping debris, sand, plaster or other materials washed off during decontamination procedures without damage to mechanism of pump. Adjust float switch so that a minimum of 3" remains between top of liquid and top of sump pan.

#### HOLDING TANK

Provide holding tank for wastewater to prevent water from backing up in shower or washroom.

#### GROUND FAULT CIRCUIT INTERRUPTER

To be installed on all electrical equipment, including cords, used in the decontamination units.

### 9.0 CONSTRUCTING THE PERSONNEL DECONTAMINATION UNIT

Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, Clean Room, Shower Room, and Equipment Room. Require all persons without exception to pass through this Decontamination Unit for entry into and exiting from the Work Area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit. Provide adequate temporary lighting and heat within Decontamination Units.

Clean Room (changing room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing.

- A. Construct using polyethylene sheeting, at least 6 mil in thickness, to provide an airtight seal between the Clean Room and the rest of the building.
- B. Locate so that access to Work Area from Clean Room is through Shower Room.

Separate Clean Room from the building by a sheet plastic flapped doorway.

- A. Require workers to remove all street clothes in this room, dress in protective coveralls, and don respiratory protection equipment. Do not allow mold/fungi-contaminated items to enter this room. Require Workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.
- B. An existing room may be utilized as the Clean Room if it is suitably located and of a configuration whereby workers may enter the Clean Room directly from the Shower Room. Protect all surfaces of room with sheet plastic as set forth in Section 01526 Temporary Enclosures. Authorization for this must be obtained from the Owner's Representative in writing prior to start of construction. Submit written request in accordance with Section 01632 "Product Substitutions" detailing layout and protective measures proposed.
- C. Maintain floor of changing room dry and clean at all times. Do not allow overflow water from shower to wet floor in changing room.
- D. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
- E. Provide posted information for all emergency phone numbers and procedures.
- F. Provide a continuously adequate supply of disposable bath towels
- G. Provide one storage locker per employee. Equip room with benches and shelves and clean protective clothing, replacement filters for respirators, towels and other required protective equipment.
- H. Provide a lockable door, which may be secured during non-work hours.

Airlock: Provide an airlock between Shower Room and Clean Room. This is a transit area for

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#### DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

#### SPRAY ADHESIVE

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

#### SHOWER PAN

Provide one piece waterproof shower pan of appropriate size. Fabricate from seamless fiberglass minimum 1/16" thick reinforced with wood, 18 gal. stainless or galvanized steel with welded seams, copper or lead with soldered seams, or a seamless liner of minimum 60 mil thick elastomeric membrane.

#### SHOWER WALLS

Provide 8' long by approximately 7' high walls fabricated from rigid, impervious, waterproof material, either corrugated fiberglass roofing or equivalent. Structurally support as necessary for stability.

#### SHOWER HEAD AND CONTROLS

Provide a factory-made showerhead producing a spray of water, which can be adjusted for spray size and intensity. Feed shower with water mixed from hot and cold supply lines. Arrange so that control of water temperature, flow rate, and shut off is from inside shower without outside aid.

#### FILTERS

Provide cascaded filter units on drain lines from showers or any other water source carrying mold/fungi-contaminated water from the Work Area. Provide units with disposable filter elements as indicated below. Connect so that discharged water passes primary filter and output of primary filter passes through secondary filter.

Primary Filter - Passes particles 20 microns and smaller

Secondary Filter - Passes particles 5 microns and smaller

Provide spare filters for both personnel and equipment decontamination unit water filters.

#### HOSE BIB

Provide heavy bronze angle type with wheel handle, vacuum breaker, and 3/4" National Standard male hose outlet.

#### SHOWER STALL

For Wash Down Station provide leak tight shower enclosure with integrated drain pan fabricated from fiberglass or other durable waterproof material, approximately 3' x 3' square with minimum 6" high sides and back. Structurally support as necessary for stability. Equip with hose bib, as specified in this section, mounted at approximately 4'-0" above drain pan. Connect drain to a reservoir, pump water from reservoir through filters to a drain. Mount filters inside shower stall on back wall beneath hose bib.

#### SUMP PUMP

Provide submersible waterproof sump pump with integral float switch. Provide unit sized to pump 2 times the flow capacity of all showers or hoses supplying water to the sump, through the filters specified herein when they are loaded to the extent that replacement is required. Provide unit

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Require that HEPA elements in filter cartridges be protected from wetting during showering. Require entire exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, be washed each time a worker leaves the Work Area. Caution should be used to avoid shorting battery pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

Non-permitted respirators Do not use single use, disposable or quarter face respirators.

#### STANDARDS

Except to the extent that more stringent requirements are written directly into the Contract Documents, the following regulations and standards have the same force and effect (and are made a part of the Contract Documents by reference) as if copied directly into the Contract Documents, or as if published copies were bound herewith. Where there is a conflict in requirements set forth in these regulations and standards, meet the more stringent requirement.

- OSHA - U.S. Department of Labor Occupational Safety and Health Administration, Safety and Health Standards 29 CFR 1910.134.
- ANSI - American National Standard Practices for Respiratory Protection, ANSI Z88.2-1980
- NIOSH - National Institute for Occupational Safety and Health
- MSHA - Mine Safety and Health Administration
- Other Federal, state and/or local regulations as required

Respiratory Protection Program: Comply with ANSI Z88.2 - 1980 "Practices for Respiratory Protection" and OSHA 29 CFR 1910.

Regardless of Airborne Spore Concentrations: Require that the minimum level of respiratory protection used be half-face air-purifying respirators with high efficiency filters.

#### FIT TESTING

Initial Fitting: Provide initial fitting of respiratory protection during a respiratory protection course of training. Fit types of respirator to be actually worn by each individual. Allow an individual to use only those respirators for which training and fit testing have been provided.

On a Weekly Basis, check the fit of each worker's respirator by having irritant smoke blown onto the respirator from a smoke tube.

Upon Each Wearing: Require that each time an air-purifying respirator is put on it be checked for fit with a positive and negative pressure fit test in accordance with the manufacturer's instructions or ANSI Z88.2 (1980).

### 8.0 HYGIENE

Provide separate Personnel and Equipment Decontamination facilities. Require that the Personnel Decontamination Unit be the only means of ingress and egress for the Work Area. Require that all materials exit the Work Area through the Equipment Decontamination Unit. The Decontamination Unit will be constructed with the following materials:

#### POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mils thick as indicated, frosted or black as indicated.

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## PROTECTIVE CLOTHING

Coveralls: Provide disposable full-body coveralls and disposable head covers, and require that they be worn by all workers in the Work Area. Provide a sufficient number for all required changes, for all workers in the Work Area.

Boots: Provide work boots with non-skid soles, and where required by OSHA, foot protection, for all workers. Provide boots at no cost to workers. Do not allow boots to be removed from the Work Area for any reason, after being contaminated with mold/fungi material. Dispose of boots, which have not been decontaminated at the end of the work.

Hard Hats: Provide head protection (hard hats) as required by OSHA for all workers, and provide 4 spares for use by Owner's Representative, Project Administrator, and Owner. Require hard hats to be worn at all times that work is in progress that may potentially cause head injury. Provide hard hats of type with plastic strap type suspension. Require hats to remain in the Work Area throughout the work. Thoroughly clean, decontaminate and bag hats before removing them from Work Area at the end of the work.

Goggles: Provide eye protection (goggles or full face piece respirators) as required by OSHA for all workers involved in scraping, spraying, or any other activity which may potentially cause eye injury. Thoroughly clean, decontaminate and bag eye protection before removing them from Work Area at the end of the work.

Gloves: Provide work gloves to all workers and require that they be worn at all times in the Work Area. Do not remove gloves from Work Area and dispose of as mold/fungi-contaminated waste at the end of the work.

## RESPIRATORY PROTECTION

Instruct and train each worker, involved in mold/fungi abatement or maintenance and repair of building materials that are contaminated with mold/fungi, in proper respiratory use and require that each worker always wear a respirator, properly fitted on the face, in the Work Area from the start of any operation which may cause airborne spores until the Work Area is completely decontaminated. Use respiratory protection appropriate for the fiber level encountered in the work place or as required for other toxic or oxygen-deficient situations encountered.

### AIR PURIFYING RESPIRATORS:

Respirator Bodies: Provide half face or full-face type respirators. Equip full-face respirators with a nose cup or other anti-fogging device as would be appropriate for use in air temperatures less than 32 degrees Fahrenheit.

Filter Cartridges: Provide, at a minimum, CD/CL/HC/HF/OV/SD/P100 cartridges. The cartridge protects against chlorine dioxide, chlorine, hydrogen chloride, hydrogen fluoride, organic vapor, sulfur dioxide and provides a HEPA filter to protect against particulates.

Negative pressure - half or full face mask: Supply a sufficient quantity of respirator CD/CL/HC/HF/OV/SD/P100 cartridges. The cartridge protects against chlorine dioxide, chlorine, hydrogen chloride, hydrogen fluoride, organic vapor, sulfur dioxide and provides a HEPA filter to protect against particulates, so that workers can change filters during the workday. Require that respirators are wet-rinsed, and filters discarded, each time a worker leaves the Work Area. Require that new filters be installed each time a worker re-enters the Work Area. Store respirators and with cartridges at the job site in the changing room and protect totally from exposure to mold/fungi prior to their use.

Powered air purifying - half or full face mask: Supply a sufficient quantity of high efficiency respirator filters (preferably approved for asbestos) so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement. Require that regardless of flow, filter cartridges be replaced after 40 hours of use.

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affected. The Owner's Representative will decide whether to issue a Change Order to proceed with the updated standard.

Conflicting Requirements: Where compliance with two or more standards is specified, and they establish different or conflicting requirements for minimum quantities or quality levels, the most stringent requirement will be enforced, unless the Contract Documents indicate otherwise. Refer requirements that are different, but apparently equal, and uncertainties as to which quality level is more stringent to the Owner's Representative for a decision before proceeding.

- A. Minimum Quantities or Quality Levels: In every instance, the quantity or quality level shown or specified shall be the minimum to be provided or performed. The actual installation may comply exactly, within specified tolerances, with the minimum quantity or quality specified, or it may exceed that minimum within reasonable limits. In complying with these requirements, indicated numeric values are minimum or maximum values, as noted, as appropriate for the context of the requirements. Refer instances of uncertainty to the Owner's Representative for decision before proceeding.

Copies of Standards: Each entity engaged in construction on the Project is required to be familiar with industry standards applicable to that entities' construction activity. Copies of applicable standards are not bound with the Contract Documents.

- A. Where copies of standards are needed for performance of a required construction activity, the Contractor shall obtain copies directly from the publication source.
- B. Although copies of standards needed for enforcement of requirements may be part of required submittals, the Owner's Representative reserves the right to require the Contractor to submit additional copies as necessary for enforcement of requirements.

Abbreviations and Names: Trade association names and titles of general standards are frequently abbreviated. Where acronyms or abbreviations are used in the Specifications or other Contract Documents they mean the recognized name of the trade association, standards generating organization, authority having jurisdiction or other entity applicable to the context of the text provision. Refer to the "Encyclopedia of Associations," published by Gale Research Co., available in most libraries.

Trade Union Jurisdictions: Assign and subcontract construction activities, and employ tradesmen and laborers in a manner that will not unduly risk jurisdictional disputes that could result in conflicts, delays, claims and losses.

## 5.0 POTENTIAL AIRBORNE MOLD/FUNGI HAZARD

Where in the performance of the work, workers, supervisory personnel, or consultants may encounter, disturb, or otherwise function in the immediate vicinity of any identified airborne mold/fungi, take appropriate continuous measures as necessary to protect all building occupants from the potential hazard of exposure to airborne contaminants. Such measures shall include the procedures and methods described herein, and compliance with regulations of applicable federal, state, and local agencies.

## 6.0 Not Used

## 7.0 PERSONEL PROTECTIVE EQUIPMENT (PPE)

Respirators, disposable coveralls, head covers, and footwear covers shall be provided by the Contractor for the Owner, Owner's Representative, Project Administrator, and other authorized representatives who may inspect the job site.

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### 3.0 SPECIFICATION FORMAT AND CONTENT EXPLANATION

This Article is provided to help the user of these Specifications understand the format, language, implied requirements, and similar conventions. None of the explanations shall be interpreted to modify the substance of Contract requirements.

Specification Content: This Specification has been produced employing conventions in the use of language and the intended meaning of certain terms, words, and phrases when used in particular situations or circumstances. These conventions are explained as follows:

- A. Language used in the Specifications and other Contract Documents is the abbreviated type. Implied words and meanings will be appropriately interpreted. Singular words will be interpreted as plural and plural words interpreted as singular where applicable and where the full context of the Contract Documents so indicates.
- B. Imperative language is used generally in the Specifications. Requirements expressed imperatively are to be performed by the Contractor. At certain locations in the text, for clarity, subjective language is used to describe responsibilities, which must be fulfilled indirectly by the Contractor, or by others when so noted.

Assignment of Specialists: The Specification requires that specialists who are recognized experts in the operations to be performed shall perform certain specific construction activities. The specialists must be engaged for those activities, and the assignments are requirements over which the Contractor has no choice or option. Nevertheless, the ultimate responsibility for fulfilling Contract requirements remains with the Contractor.

- A. This requirement should not be interpreted to conflict with enforcement of building codes or regulations governing the work. It is also not intended to interfere with local trade union jurisdictional settlements and similar conventions.
- B. Trades: Use of titles such as "carpentry" is not intended to imply that certain construction activities must be performed by accredited or unionized individuals of a corresponding generic name, such as "carpenter." It also does not imply that requirements specified apply exclusively to trades persons of the corresponding generic name.

### 4.0 INDUSTRY STANDARDS

Applicability of Standards: Except where Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into Contract Documents. Such standards are made a part of the Contract Documents by reference. Individual Sections indicate which codes and standards the Contractor must keep available at the Project Site for reference.

- A. Referenced industry standards take precedence over standards that are not referenced but recognized in the construction industry as applicable.
- B. Unreferenced industry standards are not directly applicable to the work, except as a general requirement of whether the work complies with recognized construction industry standards.

Publication Dates: Where compliance with an industry standard is required, comply with standard in effect as of date of execution of the work.

- A. Updated Standards: At the request of the Owner's Representative, Contractor may submit a Change Order proposal where applicable code or standard has been revised and reissued after the date of the Contract Documents and before performance of Work

02087-2

## SECTION 02087 – Removal & Disposal of Mold/Fungi

### PART 1 - GENERAL

#### 1.0 SUBMITTALS

For the Owner's records, the Contractor shall submit all applicable licensing and health and safety information. This information shall include but shall not be limited to the California State Contractors License, worker training certificates (Provide right-to-know training on exposure to the chemicals used and the health effects of exposure to the fungal organisms), current respirator fit test records and current medical clearance letters. Training, respirator fit testing and medical surveillance documentation need only be supplied for the actual personnel assigned to the project. Submit copies of permits, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, and similar documents, correspondence and records established in conjunction with compliance with standards and regulations bearing upon performance of the work.

#### 2.0 PROJECT SCOPE OF WORK

It is suspected that during the hazardous material abatement and remodel activities, mold will be discovered. If mold/fungi is observed during any work activities then the following will apply.

This is regarded as a performance based specification and does not specify quantities or exact means and methods to remove the mold/fungi that may be found during the project. The specification does provide in detail the requirements for protection of building components, controlling the migration of airborne contaminants, and packaging of waste materials. The work involves areas where mold/fungi contaminated building materials have been identified, presumed or assumed during the abatement activities. All work conducted on this project will be conducted in accordance with applicable Federal, State and local regulations at the time the work is conducted. It will be the contractors responsibility to know all specific regulations and requirements pertaining to this project.

Abbreviated Written Summary: Briefly and without force and effect upon the contract documents, the work of the Contract can be summarized as follows:

General: The work consists of decontaminating all potentially mold/fungi-contaminated surfaces throughout the facility. These surfaces consists of but are not limited to the following:

- Wood and steel roofing system,
- Walls,
- Windows & Frames,
- Doors & Frames,
- Conduit,
- Interior Building Systems,
- Floor and
- Any other interior building components.

Additional requirements are as follows:

- Protect all glass windows, doors and their frames, located around the building;
- Protect all electrical systems, and
- Any other systems that may be damaged from the use of water, disinfectants, paint and any other chemicals used on this project.

MTGL, Inc. assumes no liability or responsibility for damages that may occur from the contractor's actions.

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insure that no unauthorized persons have access to the material. Vehicle must be placarded with DOT label.

- 3.1.8 Advise the landfill operator or processor, in advance of transport, of the quantity of material to be delivered.
- 3.1.9 At completion of hauling and disposal of each load, submit copy of waste manifest, chain of custody form, and landfill receipt to Owners Representative.

END OF SECTION – 02086

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## SECTION 02086 - DISPOSAL OF LEAD WASTE MATERIAL

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

General provisions of Contract, including General and Supplementary Conditions, and other Specification Sections, apply to work of this section. In instances where documents conflict, the more stringent requirement will apply.

#### 1.2 DESCRIPTION OF THE WORK

This section describes the disposal of lead waste materials. Disposal includes packaging of waste materials.

#### 1.3 SUBMITTALS

1.3.1 Before Start of Work: Submit the following to the Owner for review. Do not start work until these submittals are returned with Owners approval indicating that the submittal is returned for unrestricted use.

- A. Copy of state or local license for waste hauler.
- B. Name and address of landfill where lead containing waste materials are to be disposed/ treated. Include contact person and telephone number.

1.3.2 Submit copies of all manifests and disposal site receipts to Contractor's Representative prior to project closeout.

### PART 2 - PRODUCTS

#### 2.1 DISPOSAL BAGS / CONTAINERS

Provide disposal bags and contains as necessary to properly package lead waste.

### PART 3 - EXECUTION

#### 3.1 GENERAL

3.1.1 The Contractor will be responsible for representative sampling and analysis of lead waste generated during this project.

3.1.2 The Contractor shall assume that any waste containing lead is hazardous.

3.1.3 To the extent feasible, the Contractor shall segregate dust and small debris, which may contain lead-based paint. Such waste shall be double bagged, secured with tape, and labeled.

3.1.4 Larger hazardous waste items which cannot be bagged shall be wrapped in plastic, secured with tape, labeled and disposed of.

3.1.5 All waste is to be hauled by a waste hauler with all required licenses from all state and local authority with jurisdiction.

3.1.6 Seal lead waste in leak-proof impermeable containers labeled in accordance with EPA requirements

3.1.7 Carefully load containerized waste in fully enclosed dumpsters, trucks or other appropriate vehicles for transport. Exercise care before and during transport, to

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**CERTIFICATE OF VISUAL INSPECTION  
LEAD ABATEMENT**

BUILDING NAME/NUMBER: \_\_\_\_\_

CONTAINMENT AREA DESCRIPTION: \_\_\_\_\_

The Contractor hereby certifies that he has visually inspected the Work Area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, Decontamination Unit, sheet plastic, etc.) and has found no dust, debris or residue.

By: \_\_\_\_\_  
(SIGNATURE)

Date: \_\_\_\_\_

\_\_\_\_\_  
(PRINT NAME)

\_\_\_\_\_  
(PRINT TITLE)

Owners Representative

The Owners Representative certifies that he has performed a visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Contractor's Certification above is a true and honest one.

By: \_\_\_\_\_  
(SIGNATURE)

Date: \_\_\_\_\_

\_\_\_\_\_  
(PRINT NAME)

\_\_\_\_\_  
(PRINT TITLE)

END OF SECTION - 02085

asbestos fibers shall be equipped with HEPA-filtered exhausts.

3.1.3 Wet Methods: Wet methods or wetting agents to control employee exposures shall be employed.

3.1.4 Vacuums equipped with HEPA filter, disposable dust bag, and metal floor tool shall be used to clean floors.

### 3.2 PRE-CLEARANCE VISUAL INSPECTION

Perform a Complete Visual Inspection of the entire work area including all surfaces, ceiling, walls, floor, decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, windows, and other openings. This inspection will initially be performed with the Contractor. After the area is visually cleared by the Contractor, it may be re-inspected by the Owners Representative. After completion of the Owners Representative visual inspection, complete the certification at the end of this section. Visual inspection is not complete until confirmed in writing.

### 3.3 FINAL CLEARANCE DUST SAMPLING

After the work area has passed a visual inspection, the Owners Representative will collect dust samples for analysis by AA/ICP. The lead clearance criteria indoors is that the wipe samples will be below 40 micrograms per square foot of floor area. Outside clearance levels are 250 micrograms per square foot. If the release criteria is not met, repeat cleaning. If Release Criteria is met, work may proceed with removal of work area isolation barriers.

### 3.4 REMOVAL OF WORK AREA ISOLATION

After all requirements of this section have been met:

3.4.1 Remove the Critical Barriers separating the Work Area from the rest of the building.

3.4.2 Remove Personnel Decontamination Unit (if used)

3.4.3 Dispose of all lead-containing waste material as specified in Section 02086 Disposal of Lead Containing Waste Material.

### 3.5 CERTIFICATE OF VISUAL INSPECTION

Following this section is a "Certificate of Visual Inspection". This certification is to be completed by the Contractor and certified by the Owners Representative.

**02085-2**

## SECTION 02085 - REMOVAL OF LEAD PAINTED MATERIALS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

General provisions of Contract, including General and Supplementary Conditions, and other Specification Sections, apply to work of this section. In instances where documents conflict, the more stringent requirement will apply.

#### 1.2 APPLICABILITY

Lead has been identified in the paint and finishes of the White Bathroom Sinks, Pink Ceramic Wall Tile, Yellow Ceramic Wall Tile, Red Ceramic Base; Reception Areas support Beams, and the Exterior Support Beams. As needed and in accordance with the project demolition and remodeling plans, the above mentioned items will be removed and/or have the lead containing coating removed by the lead abatement contractor. The above mentioned items will be removed in a fashion that will cause as little disturbance of the lead-paint as possible. The lead paint is not required to be removed as a separate abatement action. However, the contractor should avoid actions such as sanding or grinding of lead paint that would cause the paint to separate from the substrate. If actions are performed that separate the lead paint from the substrate, the contractor shall fully comply with CCR 1532.1. Waste Management: The contractor is required to characterize the lead painted materials separated, using TTLC or STLC methods for proper disposal. Lead has also been identified in ceramic fixtures and tiles associated with interior and exterior finishes.

This section applies to lead related work as defined by OSHA 29 CFR 1926.62 and CCR 1532.1.

### PART 2 - PRODUCTS

#### 2.1 POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, clear, frosted or black as indicated.

#### 2.3 DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive which is formulated to stick aggressively to sheet polyethylene.

#### 2.4 SPRAY CEMENT

Provide spray adhesive in aerosol cans which is specifically formulated to stick tenaciously to sheet polyethylene.

#### 2.5 DISPOSAL BAGS

Provide 6 mil thick leak-tight polyethylene bags.

### PART 3 - EXECUTION

#### 3.1 ALL LEAD WORK

3.1.1 Competent Person: All Lead work shall be supervised by a competent person as defined by the regulation.

3.1.2 HEPA Filtration: Vacuums, powered saws and other equipment that may generate

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ASBESTOS  
NA 2212, III

PART 3 - EXECUTION

Comply with the following sections during all phases of this work:

Section 01560 Worker Protections - Asbestos Abatement  
Section 01562 Respiratory Protection

3.1 GENERAL

- 3.1.1 All waste is to be hauled by a waste hauler with all required licenses from all state and local authority with jurisdiction.
- 3.1.2 Seal asbestos waste in leak-proof impermeable containers labeled in accordance with Title 29, Code of Federal Regulations, Section 1910.1200 (f).
- 3.1.3 Protect interior of truck or dumpster with Critical and Primary Barriers as described in Section 01526 Temporary Enclosures.
- 3.1.4 Carefully load containerized waste in fully enclosed dumpsters, trucks or other appropriate vehicles for transport. Exercise care before and during transport, to insure that no unauthorized persons have access to the material. Vehicle must be placarded with DOT label.
- 3.1.5 Do not store containerized materials outside of the Work Area. Take containers from the Work Area directly to a locked storage area/container.
- 3.1.6 Not Used.
- 3.1.7 Do not transport disposal bagged materials on open trucks. Double bagged material may be transported on open trucks if they are first loaded in sealed drums. Label drums with same warning labels as bags. Uncontaminated drums may be reused. Treat drums that have been contaminated as asbestos-containing waste and dispose of in accordance with this specification.
- 3.1.8 Advise the landfill operator or processor, in advance of transport, of the quantity of material to be delivered.
- 3.1.9 At disposal site unload containerized waste:
  - A. At a disposal site, sealed plastic bags may be carefully unloaded from the truck. If bags are broken or damaged, return to work site for rebagging. Clean entire truck and contents, which have been in contact with containerized waste, using procedures set forth in Section 0171.1-Project Decontamination.
  - B. Ensure that no visible emissions are released to the outside air from sealed plastic bags or impermeable containers while transporting or handling at the site where materials and waste are deposited.
- 3.1.10 At completion of hauling and disposal of each load, submit copy of waste manifest, chain of custody form, and landfill receipt to Owner's Representative.

END OF SECTION - 02084

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SECTION 02084 - DISPOSAL OF ASBESTOS-CONTAINING WASTE MATERIAL

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work of this section.

Section 01092 Codes and Regulations - Asbestos Abatement describes applicable federal, state and local regulations.

1.2 DESCRIPTION OF THE WORK

This section describes the disposal of Asbestos-Containing Materials. Disposal includes packaging of asbestos-containing waste materials. Disposal may be accomplished either by landfilling or converting asbestos containing materials to non-asbestos waste.

1.3 SUBMITTALS

1.3.1 Before Start of Work: Submit the following to the Owner's Representative for review. Do not start work until these submittals are returned with Owner's Representative's approval indicating that the submittal is returned for unrestricted use.

A. Copy of state or local license for waste hauler.

B. Name and address of landfill where asbestos-containing waste materials are to be buried. Include contact person and telephone number.

1.3.2 Submit copies of all manifests and disposal site receipts to Owner's Representative prior to project closeout.

PART 2 - PRODUCTS

2.1 DISPOSAL BAGS

Provide 6 mil thick leak-tight polyethylene bags labeled with three labels with text as follows:

2.1.1 FIRST LABEL

Provide in accordance with 29 CFR 1910.1200(f) of OSHA's Hazard Communication standard with NESHAP additions:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD  
BREATHING AIRBORNE ASBESTOS  
FIBERS IS HAZARDOUS TO YOUR HEALTH  
OWNER NAME, CONTRACTOR NAME  
LOCATION AT WHICH WASTE WAS GENERATED**

2.1.2 SECOND LABEL

Provide in accordance with U. S. Department of Transportation regulation on hazardous waste marking. 49 CFR parts 171 and 172. Hazardous Substances: Final Rule. Published November 21, 1988 and revised October 21, 1991:

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- 3.1.4 Controls: Comply with the work practices specified for each type of Class II asbestos work being performed as outlined in the following sections.
- 3.1.5 HEP@ Filtration: Vacuums, powered saws and other equipment, which may generate asbestos fibers, shall be equipped with HEP filtered exhausts.
- 3.1.6 Wet Methods: Wet methods or wetting agents to control employee exposures shall be employed.
- 3.1.7 OSHA requires the prompt cleanup of wastes and debris and placement in leak-tight containers and labeled with the following information:

**DANGER  
CONTAINS ASBESTOS FIBERS  
AVOID CREATING DUST  
CANCER AND LUNG DISEASE HAZARD**

- 3.1.8 Establish a decontamination area that is adjacent to the regulated area for decontamination of employees and their equipment. At a minimum the decontamination shall consist of an area covered by a impermeable drop cloth on the floor or horizontal working surface of sufficient size to accommodate cleaning of equipment and removing personal protective equipment without spreading contamination. Work clothes must be cleaned with a HEPA vacuum before it is removed. All equipment and surfaces of containers filled with ACM must be cleaned prior to removing them from the equipment room or area. Entry to and exit from the regulated area shall be through the decontamination area.

End of Section 02083.

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or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.

2.1.2 Removal Encapsulant: Provide a penetrating type encapsulant designed specifically for removal of Asbestos-Containing Material. Use a material which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to or greater than that provided by water amended with a surfactant consisting of one ounce of a mixture of 50% polyoxyethylene ester and 50% polyoxyethylene ether in five gallons of water.

## 2.2 POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, clear, frosted or black as indicated.

## 2.3 DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

## 2.4 SPRAY CEMENT

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

## 2.5 DISPOSAL BAGS

Provide 6 mil thick leak-tight polyethylene bags labeled as required by Section 02084 Disposal of Asbestos Containing Waste Material.

## 2.6 FIBERBOARD DRUMS

Provide heavy-duty leak tight fiberboard drums with tight sealing locking metal tops.

## 2.7 PAPER BOARD BOXES

Provide heavy-duty corrugated paperboard boxes coated with plastic or wax to retard deterioration from moisture. Provide in sizes that will easily fit in disposal bags.

## PART 3 - EXECUTION

### 3.1 ALL CLASS II WORK

3.1.1 Competent Person: All Class II work shall be supervised by a competent person as defined by the regulation.

3.1.2 Critical Barriers: Critical barriers shall be placed over all openings to the regulated area or utilize an alternate barrier or isolation method, which prevents migration of airborne asbestos from the regulated area and meets the requirements of the regulation.

3.1.3 Impermeable Dropcloths: Impermeable dropcloths shall be placed on surfaces beneath all removal activity. Dropcloths shall extend horizontally in all directions one foot for every vertical foot the work surface is above the floor.

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## SECTION 02083 - REMOVAL OF CLASS II ASBESTOS-CONTAINING MATERIALS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division - 1 Specification Sections, apply to work of this section.

#### 1.2 APPLICABILITY

This section applies to Class II work as defined by OSHA 29 CFR 1926.1101 and means activities involving the removal of ACM, which is not thermal system insulation (TSI) or surfacing material. This includes, but is not limited to, the removal of asbestos-containing wallboard, floor tile and sheeting, roofing and siding shingles, and construction mastics.

#### 1.3 RELATED WORK SPECIFIED ELSEWHERE

Supervision by a Competent Person is specified in Section 01043 Project Coordination - Asbestos Abatement

Installation of Critical Barriers is set forth in Section 01526 Temporary Enclosures.

Project Decontamination procedures after removal are specified in Section 01711 Project Decontamination.

Disposal of asbestos-containing waste is specified in Section 02084 Disposal of Asbestos-Containing Waste Material.

#### 1.4 SUBMITTALS

Before Start of Work: Submit the following to the Owner's Representative for review. Do not start work until these submittals are returned with Owner's Representative's approval indicating that the submittal is returned for unrestricted use.

1.4.1 Surfactant: Submit product data, use instructions and recommendations from manufacturer of surfactant intended for use. Include data substantiating that material complies with requirements.

1.4.2 Removal Encapsulant: Submit product data, use instructions and recommendations from manufacturer of removal encapsulant intended for use. Include data substantiating that material complies with requirements.

1.4.3 Material Safety Data Sheet: Submit the Material Safety Data Sheet, or equivalent, in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for each surfactant, encapsulating material and solvent proposed for use on the work. Include a separate attachment for each sheet indicating the specific worker protective equipment proposed for use with the material indicated.

### PART 2 - PRODUCTS

#### 2.1 WETTING MATERIALS

For wetting prior to disturbance of Asbestos-Containing Materials use either amended water or a removal encapsulant:

2.1.1 Amended Water: Provide water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to

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submitted provide workers with the required protective equipment. Require that appropriate protective equipment be used at all times.

### 3.3 WET REMOVAL

- 3.3.1 Thoroughly wet to satisfaction of Owner's Representative Asbestos-Containing Materials to be removed prior to stripping and/or tooling to reduce fiber dispersal into the air. Accomplish wetting by a fine spray (mist) of amended water or removal encapsulant. Saturate material sufficiently to wet to the substrate without causing excess dripping. Allow time for amended water or removal encapsulant to penetrate material thoroughly. If amended water is used, spray material repeatedly during the work process to maintain a continuously wet condition. If a removal encapsulant is used, apply in strict accordance with manufacturer's written instructions. Perforate outer covering of any installation which has been painted and/or jacketed in order to allow penetration of amended water or removal encapsulant, or use injection equipment to wet material under the covering. Where necessary, carefully strip away while simultaneously spraying amended water or removal encapsulant on the installation to minimize dispersal of asbestos fibers into the air.
- 3.3.2 Mist work area continuously with amended water whenever necessary to reduce airborne fiber levels.
- 3.3.3 Remove saturated Asbestos-Containing Material in small sections from all areas. Do not allow material to dry out. As it is removed, simultaneously pack material while still wet into disposal bags. Evacuate air from disposal bags with a HEPA filtered vacuum cleaner before sealing. Twist neck of bags, bend over and seal with minimum three wraps of duct tape. Clean outside and move to Wash Down Station adjacent to Material Decontamination Unit.

END OF SECTION - 02081

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2.1.1. Amended Water: Provide water to which a surfactant has been added. Use a mixture of surfactant and water which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to or greater than that provided by the use of one ounce of a surfactant consisting of 50% polyoxyethylene ester and 50% polyoxyethylene ether mixed with five gallons of water.

2.1.2. Removal Encapsulant: Provide a penetrating type encapsulant designed specifically for removal of Asbestos-Containing Material. Use a material which results in wetting of the Asbestos-Containing Material and retardation of fiber release during disturbance of the material equal to or greater than that provided by water amended with a surfactant consisting of one ounce of a mixture of 50% polyoxyethylene ester and 50% polyoxyethylene ether in five gallons of water.

## 2.2 POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, frosted or black as indicated.

## 2.3 DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

## 2.4 SPRAY CEMENT

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

## 2.5 DISPOSAL BAGS

Provide 6 mil thick leak-tight polyethylene bags labeled as required by Section 02084 Disposal of Asbestos Containing Waste Material.

## 2.6 FIBERBOARD DRUMS

Provide heavy-duty leak tight fiberboard drums with tight sealing locking metal tops.

## 2.7 PAPER BOARD BOXES

Provide heavy-duty corrugated paperboard boxes coated with plastic or wax to retard deterioration from moisture. Provide in sizes that will easily fit in disposal bags.

### PART 3 - EXECUTION

#### 3.1 SECONDARY BARRIER

Over the Primary Barrier, install as a drop cloth a clear 6-mil sheet plastic in all areas where asbestos removal work is to be carried out. Completely cover floor with sheet plastic. Where the work is within 10'-0" of a wall extend the Secondary Barrier up wall to ceiling. Support sheet plastic on wall with duct tape, seal top of Secondary plastic to Primary Barrier with duct tape so that debris is unable to get behind it. Provide cross strips of duct tape at wall support as necessary to support sheet plastic and prevent it's falling during removal operations.

#### 3.2 WORKER PROTECTION

Before beginning work with any material for which a Material Safety Data Sheet has been

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## SECTION 02081 - REMOVAL OF CLASS I ASBESTOS-CONTAINING MATERIALS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and Division - 1 Specification Sections, apply to work of this section.

#### 1.2 RELATED WORK SPECIFIED ELSEWHERE

Installation of Critical and Primary Barriers, and Work Area Isolation Procedures are set forth in Section 01526 Temporary Enclosures.

Project Decontamination procedures after removal of the Secondary Barrier are specified in Section 01711 Project Decontamination.

Disposal of asbestos-containing waste is specified in Section 02084 Disposal of Asbestos-Containing Waste Material.

#### 1.3 SUBMITTALS

Before Start of Work: Submit the following to the Owner's Representative for review. Do not start work until these submittals are returned with Owner's Representative's approval indicating that the submittal is returned for unrestricted use.

1.3.1. Surfactant: Submit product data, use instructions and recommendations from manufacturer of surfactant intended for use. Include data substantiating that material complies with requirements.

1.3.2. Removal Encapsulant: Submit product data, use instructions and recommendations from manufacturer of removal encapsulant intended for use. Include data substantiating that material complies with requirements. Product used shall be either FiberSet FT or FiberSet PM, as applicable.

1.3.3. NESHAP Certification: Submit certification from manufacturer of surfactant or removal encapsulant that, to the extent required by this specification, the material, if used in accordance with manufacturer's instructions, will wet Asbestos-Containing Materials to which it is applied as required by the National Emission Standard for Hazardous Pollutants (NESHAP) Asbestos Regulations (40 CFR 61, Subpart M).

1.3.4. Material Safety Data Sheet: Submit the Material Safety Data Sheet, or equivalent, in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) for each surfactant, encapsulating material and solvent proposed for use on the work. Include a separate attachment for each sheet indicating the specific worker protective equipment proposed for use with the material indicated.

1.3.5. Glovebag: Submit product data.

1.3.6. Mini-Enclosures: Submit sketch of mini-enclosure arrangement to be used.

### PART 2 - PRODUCTS

#### 2.1 WETTING MATERIALS

For wetting prior to disturbance of Asbestos-Containing Materials use either amended water or a removal encapsulant:

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2. The average concentration of asbestos on the five Work Area Samples does not exceed the filter background level of 70 structures per square millimeter of filter area.

B. Work Area Samples are not statistically different from Outside samples

1. All sample volumes except for blanks are greater than 560 liters for a 25 mm. sampling cassette.
2. The average asbestos concentration of the three blanks is below the filter background level of 70 structures per square millimeter of filter area.
3. Average asbestos concentrations in Work Area Samples are not statistically different from Outside samples, as determined by the Z-test calculation found in 40 CFR Part 763, Subpart E, Appendix A (Z is less than or equal to 1.65)

1.6.4 If these conditions are not met then the decontamination is incomplete and the cleaning procedures of Section 01711 shall be repeated.

1.6.5 Termination of Analysis: If the arithmetic mean (average) asbestos concentration on the blank filters exceed 70 structures per square millimeter of filter area the analysis will cease and new samples collected.

1.7 PHASE CONTRAST MICROSCOPY

1.7.1 Analysis will be performed using the analysis method set forth in the AHERA Regulation 40 CFR Part 763 Appendix A.

1.7.2 Asbestos Structures referred to in this Section include fibers as defined by method of analysis.

1.8 RE-SAMPLING

If, for any reason, the Final Air Clearance Samples do not meet the minimum clearance requirements, re-cleaning and re-sampling must be accomplished. The additional cost of re-sampling and re-analysis will be taken on by the Removal Contractor and the method of sampling and analysis will be the same as that used for the first set of samples.

PART 2 - PRODUCTS (Not Applicable.)

PART 3 - EXECUTION (Not Applicable.)

END OF SECTION - 01714

01714-2

## SECTION 01714 - WORK AREA CLEARANCE

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division - 1 Specification Sections, apply to work of this section.

1.1.1 Visual Inspection: Required as a prerequisite of air testing, is set forth in Section 01711 Project Decontamination.

1.1.2 Air Monitoring: Performed by the Owner during abatement work, is described in Section 01410 Test Laboratory Services.

#### 1.2 SUMMARY

1.2.1 Not in Contract Sum: This section describes work being performed by the Owner. This work is not in the Contract Sum.

1.2.2 This Section sets forth required post-abatement airborne asbestos concentrations in the Work Area and describes testing procedures the Owner will use to measure these levels.

#### 1.3 CONTRACTOR RELEASE CRITERIA

The Asbestos Abatement Work Area is Cleared when the Work Area is visually clean and airborne asbestos structure concentrations have been reduced to the level specified below.

#### 1.4 VISUAL INSPECTION

Work of this Section will not begin until the visual inspection described in Section 01711 Project Decontamination is complete and has been certified by the Project Administrator.

#### 1.5 AIR MONITORING

To determine if the elevated airborne asbestos structure concentration encountered during abatement operations has been reduced to the specified level, the Owner will secure and analyze samples. The all areas will be tested and analyzed by Phase Contrast Microscopy. If airborne fiber concentrations are above the specified level, the samples will be analyzed by Transmission Electron Microscopy

#### 1.6 TRANSMISSION ELECTRON MICROSCOPY

1.6.1 Analysis will be performed using the analysis method set forth in the AHERA Regulation 40 CFR Part 763 Appendix A.

1.6.2 Asbestos Structures referred to in this Section include asbestos fibers, bundles, clusters or matrices, as defined by method of analysis.

1.6.3 Release Criteria: Decontamination of the work site is complete if either of the following two sets of conditions (A. or B.) are met:

A. Work Area Samples are below filter background levels

1. All Work Area sample volumes are greater than 1,199 liters for a 25 mm. sampling cassette.

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**CERTIFICATE OF VISUAL INSPECTION**

BUILDING NAME/NUMBER:

CONTAINMENT AREA DESCRIPTION: \_\_\_\_\_

In accordance with Section 01711 "Project Decontamination" the Contractor hereby certifies that he has visually inspected the Work Area (all surfaces including pipes, beams, ledges, walls, ceiling and floor, Decontamination Unit, sheet plastic, etc.) and has found no dust, debris or residue.

By: \_\_\_\_\_  
(SIGNATURE)

Date: \_\_\_\_\_

\_\_\_\_\_  
(PRINT NAME)

\_\_\_\_\_  
(PRINT TITLE)

**PROJECT ADMINISTRATOR CERTIFICATION**

The Project Administrator hereby certifies that he has accompanied the Contractor on his visual inspection and verifies that this inspection has been thorough and to the best of his knowledge and belief, the Contractor's Certification above is a true and honest one.

By: \_\_\_\_\_  
(SIGNATURE)

Date: \_\_\_\_\_

\_\_\_\_\_  
(PRINT NAME)

\_\_\_\_\_  
(PRINT TITLE)

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- 3.5.1 If Release Criteria are not met, repeat Final Cleaning and continue Decontamination procedure from that point.
- 3.5.2 If Release Criteria are met, work may proceed with lockback if desired and removal of work area isolation barriers.

### 3.6 REMOVAL OF WORK AREA ISOLATION

After all requirements of this section and Section 01714 Work Area Clearance have been met:

- 3.6.1 Remove the Critical Barriers separating the Work Area from the rest of the building.
- 3.6.2 HEPA vacuum carpeting designated to remain in work areas using a floor cleaning attachment adjusted so that rubber skirting is in contact with carpet surface. Use a passive (non power brush type) floor attachment with rubber floor seals and adjustable above-floor height. Completely clean carpeting in one direction with each pass of the floor attachment overlapping the previous pass by one-half the attachment width. At the completion of one such cleaning, vacuum clean in the same manner in a direction at right angles to the initial cleaning.
- 3.6.3 Shut down and remove the negative pressure system; Seal HEPA filtered fan units, HEPA vacuums and similar equipment with 6 mil polyethylene sheet and duct tape to form a tight seal at intake end before being moved from Work Area.
- 3.6.4 Remove Personnel Decontamination Unit
- 3.6.5 Remove any small quantities of residual material found with wet wiping, HEPA filtered vacuum cleaners and local area protection. If significant quantities, as determined by the Owner's Representative, are found then the entire area affected shall be decontaminated as specified in Section 01712 Cleaning & Decontamination Procedures.
- 3.6.6 Remove all equipment, materials, and debris from the work site.
- 3.6.7 Dispose of all asbestos-containing waste material as specified in Section 02084 Disposal of Asbestos Containing Waste Material.

### 3.7 CERTIFICATE OF VISUAL INSPECTION

Following this section is a "Certificate of Visual Inspection". This certification is to be completed by the Contractor and certified by the Project Administrator. Submit completed Certificate with Application for Final Payment. Final payment will not be made until this Certificate is executed.

END OF SECTION - 01711

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### 3.2.10 FINAL CLEANING

Clean all surfaces in the work area in the same manner as the first cleaning immediately after removal of Primary plastic. This cleaning is now being applied to existing room surfaces and critical barriers. Take care to avoid watermarks or other damage to surfaces.

### 3.3 CLEARANCE VISUAL INSPECTION

3.3.1 After Final Cleaning Perform a Complete Visual Inspection of the entire Work Area per ASTM guideline E-1368-90, including: all surfaces, ceiling, walls, floor, decontamination unit, all plastic sheeting, seals over ventilation openings, doorways, windows, and other openings; look for debris from any sources, residue on surfaces, dust or other matter. Optionally, During visual inspection sweep entire work area including walls, ceilings, ledges, floors, and other surfaces in the room with exhaust from forced air equipment (leaf blower with approximately 1 horsepower electric motor or equivalent). If any debris, residue, dust or other matter is found repeat final cleaning and continue decontamination procedure from that point. When the area is visually clean, and if after sweeping of all surfaces with leaf blower, no debris, residue, dust or other material is found, complete the certification at the end of this section. Visual inspection is not complete until confirmed in writing, on the certification, by Project Administrator.

3.3.2 Temporary lighting: Provide adequate lighting for visual inspection of all surfaces in the areas to be subjected to visual inspection.

3.3.3 Lifts: Provide ladders, scaffolding, and lifts as required to provide access to all surfaces in the area to be subjected to visual inspection. Access is to allow touching of all surfaces.

### 3.4 ENCAPSULATION

3.4.1 Encapsulation of substrate: Perform encapsulation of substrate or installation of spray-applied finishes or fireproofing, where required, at this time. Maintain negative pressure system in operation during encapsulation work. Perform work only after meeting the following requirements:

3.4.2 Surfaces to be covered have met the requirements for a visual inspection in this section.

3.4.3 Airborne fiber counts in the Work Area are at or below 0.01 fibers per cubic centimeter as measured by phase contrast microscopy.

3.4.4 Wait until encapsulant is dry: not more than 24 hours. Maintain negative pressure system in operation for the entire waiting period.

### 3.5 FINAL CLEARANCE AIR SAMPLING

After the work area is found to be visually clean and PCM air sampling completed, TEM or PCM air samples will be collected and analyzed in accordance with the procedure for Transmission Electron Microscopy set forth in Section 01714 Work Area Clearance.

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### 3.2.1 FIRST CLEANING

Carry out a first cleaning of all surfaces of the work area including items of remaining sheeting, tools, scaffolding and/or staging by use of damp-cleaning and mopping, and/or a High Efficiency Particulate Air (HEPA) filtered vacuum. (Note: A HEPA vacuum may fail if used with wet material.) Do not perform dry dusting or dry sweeping. Use each surface of a cleaning cloth one time only and then dispose of as contaminated waste. Continue this cleaning until there is no visible debris from removed materials or residue on plastic sheeting or other surfaces.

### 3.2.4 REMOVAL OF OUTER ENVELOPE OF PRIMARY BARRIER

- A. Remove the outer envelope of the primary barrier (the innermost sheets lining the work area).
- B. Leave the outer envelope and critical seals.
- C. Leave the Decontamination Units in operating condition.
- D. Leave the negative pressure system and maintain in continuous operation.

### 3.2.5 SECOND CLEANING

Clean all surfaces in the work area in the same manner as the first cleaning. (Cleaning will involve the outer envelope of the primary barrier, including wall and floor barriers, and any poly barriers covering items, which remained in the work area during abatement).

### 3.2.7 ENCAPSULATE OUTER ENVELOPE OF THE PRIMARY BARRIER

Maintain negative pressure system in operation during encapsulation work. Perform work only after meeting the following requirements:

- A. Surface to be covered has met the requirements for a visual inspection in this section, above.
- B. Wait For Encapsulant to Dry: Use oscillating fans as necessary to assure circulation of air in all parts of work areas during this period. Maintain negative pressure system in operation for the entire drying period.

### 3.2.9 REMOVAL OF INNER ENVELOPE OF PRIMARY BARRIER

- A. Remove: Remove the material decontamination unit if there is one and all Primary Barrier sheeting, except for one primary layer over flooring finish material, equipment and/or supplies previously excluded from the work area.
- B. Leave the Critical Barrier: Which forms the sole barrier between the Work Area and other portions of the building or the outside.
- C. Leave the Critical Barrier Sheeting: Over lighting fixtures and clocks, ventilation openings, doorways, convectors, speakers, and other openings.
- D. Leave the Decontamination Unit: For personnel, in operating condition.
- E. Leave the negative pressure system: Maintain in continuous operation.

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## SECTION 01711 - PROJECT DECONTAMINATION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification Sections, apply to work of this section.

#### 1.2 DESCRIPTION OF REQUIREMENTS

##### 1.2.1 General: Decontamination of the Work Area following asbestos abatement.

If the asbestos abatement work is on damaged or friable materials the work procedure uses two cleanings of the primary barrier plastic prior to its removal and one cleaning of the room surfaces to remove any new or existing contamination. Unless specifically indicated otherwise all materials are considered damaged or friable for purposes of this section. If the asbestos abatement work is on undamaged and non-friable materials, then the work procedure uses one cleaning of the primary barrier plastic and one cleaning of the room surfaces to remove any new or existing contamination. In both cases operation of the negative pressure system is used to remove airborne fibers generated by the abatement work.

#### 1.3 RELATED WORK SPECIFIED ELSEWHERE

1.3.1 Removal of Gross Debris is integral with the performance of abatement work and as such is specified in the appropriate work section(s) of these specifications:

1.3.2 Sections 02081 and 2083

1.3.3 Work Area Clearance: Air testing and other requirements which must be met before release of Contractor and reoccupancy of the work area are specified in Section 01714 Work Area Clearance.

### PART 2 - PRODUCTS (Not Applicable.)

### PART 3 - EXECUTION

#### 3.1 GENERAL

3.1.1 Work of This Section includes the decontamination of air in the Work Area which has been, or may have been, contaminated by the elevated airborne asbestos fiber levels generated during abatement activities, or which may previously have had elevated fiber levels due to friable asbestos-containing materials in the space.

3.1.2 Work of This Section includes the cleaning, decontamination, and removal of temporary facilities installed prior to abatement work, including:

- A. Primary and Critical Barriers erected by work of Section 01526
- B. Decontamination Unit erected by work of Section 01563
- C. Negative Pressure System installed by work of Section 01613

#### 3.2 WORK SEQUENCE

The work shall be carried out in the sequence as listed below.

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- C. Once inside the washroom, wet clean the bags and/or equipment.
- D. When cleaning is complete, pass items into Holding Room. Close all doorways except the doorway between the Holding room and the Clean Room.
- E. Workers from the building exterior enter Holding Area and remove decontaminated equipment and/or containers for disposal.
- F. Require these workers to wear full protective clothing and appropriate respiratory protection.
- G. At no time is a worker from an uncontaminated area to enter the enclosure when a removal worker is inside.

### 3.3 CLEANING OF DECONTAMINATION UNITS

- 3.3.1 Clean debris and residue from inside of Decontamination Units on a daily basis or as otherwise indicated on Contract Drawings. Damp wipe or hose down all surfaces after each shift change. Clean debris from shower pans on a daily basis.
- 3.3.2 If the Clean Room of the Personnel Decontamination Unit becomes contaminated with asbestos-containing debris, abandon the entire Decontamination Unit and erect a new Decontamination Unit. Use the former Clean Room as an inner section of the new Equipment Room.

### 3.4 MAINTENANCE OF DECONTAMINATION UNITS

Inspect all seals and doorways prior to each work shift and as indicated by conditions throughout removal. Repair immediately if necessary. Clean and dry decontamination units at the end of each work shift.

### 3.5 SIGNS

- 3.5.1 Post an approximately 20 inch by 14 inch manufactured caution sign at each entrance to the Work Area displaying the following legend with letter sizes and styles of a visibility required by 29 CFR 1926:

#### LEGEND

**DANGER  
ASBESTOS  
CANCER AND LUNG DISEASE HAZARD  
AUTHORIZED PERSONNEL ONLY  
RESPIRATORS AND PROTECTIVE CLOTHING ARE REQUIRED  
IN THIS AREA**

- 3.5.2 Provide spacing between respective lines at least equal to the height of the respective upper line.
- 3.5.3 Post an approximately 10 inch by 14 inch manufactured sign at each entrance to each Work Area displaying the following legend with letter sizes and styles of a visibility at least equal to the following:
- 3.5.4 Post Work Area emergency procedures

END OF SECTION - 01563

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polyethylene sheeting.

- C. Provide a drop cloth layer of plastic on floor in the Wash Room for every load-out operation. Roll this drop cloth layer of plastic from Wash Room into Work Area after each load-out. Provide a minimum of two (2) layers of plastic at all times. Use only clear plastic to cover floors.

3.2.3 Pump wastewater to drain. Provide 20 micron and 5 micron wastewater filters in line to drain or waste water storage. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.

3.2.4  Holding Room

- A. Provide Holding Room as a drop location for bagged asbestos-containing materials passed from the Wash Room.
- B. Separate this room from the adjacent rooms by flapped doors fabricated from 1/16" +/- thick single ply elastomeric membrane material either EPDM or Neoprene or by 6-mil sheet plastic.

3.2.5  Clean Room : Provide Clean Room to isolate the Holding Room from the building exterior. If possible locate to provide direct access to the Holding Room from the building exterior.

- A. Erect Critical and Primary Barriers as described in Section 01526 "Temporary Enclosures" in an existing space. If no space exists construct Clean Room of wood framing of appropriate size and polyethylene sheeting, at least 6 mil in thickness.
- B. Separate this room from the exterior by a single flap door of 6-mil polyethylene sheeting.

3.2.6  Load-out Area

- A. The load-out area is the transfer area from the building to a truck or dumpster. It may be the Clean Room of the Equipment Decontamination unit or a separate room or loading dock area. Erect Critical and Primary barriers as described in Section 01526 "Temporary Enclosures" in load-out area.
- B. During transfer of material from load-out area erect primary barriers as described in Section 01526 "Temporary Enclosures" as necessary to seal path from load-out area to truck or dumpster.
- C. Provide a lockable door to secure the work area during non-work hours.

3.2.7  Decontamination Sequence : Take all equipment or material from the Work Area through the Equipment Decontamination Unit according to the following procedure:

- A. At wash down station, thoroughly wet clean contaminated equipment or sealed polyethylene bags and pass into Wash Room.
- B. When passing equipment or containers into the Wash Room, close all doorways of the Equipment Decontamination Unit, other than the doorway between the Wash down Station and the Wash Room. Keep all outside personnel clear of the Equipment Decontamination Unit.

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- 3.1.6 Work Area: Separate Work Area from the Equipment Room by polyethylene barriers. If the airborne asbestos level in the Work Area is expected to be high, as in dry removal, add an intermediate cleaning space between the Equipment Room and the Work Area. Damp wipe clean all surfaces after each shift change.
- 3.1.7 Decontamination Sequence: Require that all workers adhere to the following sequence when entering or leaving the Work Area.
- A. Entering Work Area: Worker enters Clean Room and removes street clothing, puts on protective overalls and respirator, and passes through the Shower Room into the Equipment Room.
1. Any additional clothing and equipment left in Equipment Room needed by the worker are put on in the Equipment Room.
  2. Worker proceeds to Work Area.
- B. Exiting Work Area
1. Before leaving the Work Area, require the worker to remove all gross contamination and debris from overalls and feet.
  2. The worker then proceeds to the Equipment Room and removes all clothing except respiratory protection equipment.
  3. Extra work clothing such as boots, hard hats, goggles, gloves are to be stored in contaminated end of the Equipment Room.
  4. Disposable coveralls are placed in a bag for disposal with other material.
  5. Require that Decontamination procedures found in Section 01560 are followed by all individuals leaving the Work Area.
  6. After showering, the worker moves to the Clean Room and dresses in either new coveralls for another entry or street clothes if leaving.

### 3.2 EQUIPMENT DECONTAMINATION UNIT

Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, Clean Room, Holding Room, Wash Room for removal of equipment and material from Work Area. Do not allow personnel to enter or exit Work Area through Equipment Decontamination Unit.

Arrange as follows:

- 3.2.1 Wash Down Station: Provide an enclosed Shower Unit located in Work Area just outside Wash Room as an equipment, bag and container cleaning station.
- 3.2.2 Wash Room: Provide wash room for cleaning of bagged or containerized asbestos-containing waste materials passed from the Work Area.
- A. Construct wash room of wood framing of appropriate sized lumber and polyethylene sheeting, at least 6 mil in thickness and located so that packaged materials, after being wiped clean, can be passed to the Holding Room.
- B. Separate this room from the Work Area by a single flapped door of 6-mil

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- C. Separate this room from the Shower Room and Clean Rooms with airtight walls fabricated of 6-mil polyethylene.

3.1.4 Shower Room: Provide a completely watertight operational shower to be used for transit by cleanly dressed workers heading for the Work Area from the Clean Room, or for showering by workers headed out of the Work Area after undressing in the Equipment Room.

- A. Construct room by providing a shower pan and 2 shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.
- B. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- C. Separate this room from the Clean Room and Equipment Room with airtight walls fabricated of 6-mil polyethylene.
- D. Provide splash proof entrances.
- E. Provide showerhead and controls.
- F. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.
- G. Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition. Provide liquid shampoo.
- H. Arrange so that water from showering does not splash into the Clean or Equipment Rooms.
- I. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the Work Area.
- J. Pump wastewater to drain. Provide 20 micron and 5 micron wastewater filters in line to drain or waste water storage. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.
- K. Provide hose bib.

3.1.5 Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers.

- A. Separate this room from the Work Area by a 6-mil polyethylene flapped doorway.
- B. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- C. Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6-mil polyethylene.
- D. Provide a container for collection of used protective clothing.

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entry into and exiting from the Work Area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit. Provide adequate temporary lighting and heat within Decontamination Units.

3.1.1 Clean Room (changing room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing.

- A. Construct using polyethylene sheeting; at least 6 mil in thickness, to provide an airtight seal between the Clean Room and the rest of the building.
- B. Locate so that access to Work Area from Clean Room is through Shower Room.

3.1.2 Separate Clean Room from the building by a sheet plastic flapped doorway.

- A. Require workers to remove all street clothes in this room, dress in protective coveralls, and don respiratory protection equipment. Do not allow asbestos-contaminated items to enter this room. Require Workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.
- B. An existing room may be utilized as the Clean Room if it is suitably located and of a configuration whereby workers may enter the Clean Room directly from the Shower Room. Protect all surfaces of room with sheet plastic as set forth in Section 01526 Temporary Enclosures. Authorization for this must be obtained from the Owner's Representative in writing prior to start of construction. Submit written request in accordance with Section 01632 "Product Substitutions" detailing layout and protective measures proposed.
- C. Maintain floor of changing room dry and clean at all times. Do not allow overflow water from shower to wet floor in changing room.
- D. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
- E. Provide posted information for all emergency phone numbers and procedures.
- F. Provide a continuously adequate supply of disposable bath towels.
- G. Provide 1 storage locker per employee. Equip room with benches and shelves and clean protective clothing, replacement filters for respirators, towels and other required protective equipment.
- H. Provide a lockable door, which may be secured during non-work hours.

3.1.3 Airlock: Provide an airlock between Shower Room and Clean Room. This is a transit area for workers.

- A. Separate this room from Shower Room and Clean Room by sheet plastic flapped doorways.
- B. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.

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- 2.7.1 Primary Filter - Passes particles 20 microns and smaller
- 2.7.2 Secondary Filter - Passes particles 5 microns and smaller
- 2.7.3 Provide spare filters for both personnel and equipment decontamination unit water filters.

2.8 HOSE BIB

Provide heavy bronze angle type with wheel handle, vacuum breaker, and 3/4" National Standard male hose outlet.

2.9 SHOWER STALL

For "Wash Down Station" provide leak tight shower enclosure with integrated drain pan fabricated from fiberglass or other durable waterproof material, approximately 3' x 3' square with minimum 6' high sides and back. Structurally support as necessary for stability. Equip with hose bib, as specified in this section, mounted at approximately 4'-0" above drain pan. Connect drain to a reservoir, pump water from reservoir through filters to a drain. Mount filters inside shower stall on back wall beneath hose bib.

2.10 ELASTOMERIC MEMBRANE

Provide uniform flat sheets of flexible sheet roofing material fabricated from EPDM (ethylene propylene diene monomers) or Neoprene (polychloroprene), in a nominal 45-mil thickness.

2.11 LUMBER

Provide kiln dried lumber of any grade or species.

2.12 SUMP PUMP

Provide totally submersible waterproof sump pump with integral float switch. Provide unit sized to pump 2 times the flow capacity of all showers or hoses supplying water to the sump, through the filters specified herein when they are loaded to the extent that replacement is required. Provide unit capable of pumping debris, sand, plaster or other materials washed off during decontamination procedures without damage to mechanism of pump. Adjust float switch so that a minimum of 3" remains between top of liquid and top of sump pan.

2.13 HOLDING TANK

Provide holding tank for wastewater to prevent water from backing up in shower or washroom.

2.14 GROUND FAULT CIRCUIT INTERRUPTER

To be installed on all electrical equipment, including cords, used in the decontamination units.

PART 3 - EXECUTION

3.1 PERSONNEL DECONTAMINATION UNIT

For Class I Work Areas provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms or spaces, Clean Room, Shower Room, and Equipment Room. Require all persons without exception to pass through this Decontamination Unit for

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## SECTION 01563 - DECONTAMINATION UNITS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

Drawings and general provisions of Contract, including General and Supplementary Conditions and other Division-1 Specification sections, apply to work of this section.

#### 1.2 DESCRIPTION OF WORK

Provide separate Personnel and Equipment Decontamination facilities. Require that the Personnel Decontamination Unit be the only means of ingress and egress for the Work Area. Require that all materials exit the Work Area through the Equipment Decontamination Unit.

### PART 2 - PRODUCTS

#### 2.1 POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mils thick as indicated, frosted or black as indicated.

#### 2.2 DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

#### 2.3 SPRAY ADHESIVE

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

#### 2.4 SHOWER PAN

Provide one piece waterproof shower pan of appropriate size. Fabricate from seamless fiberglass minimum 1/16" thick reinforced with wood, 18 gal. stainless or galvanized steel with welded seams, copper or lead with soldered seams, or a seamless liner of minimum 60 mil thick elastomeric membrane.

#### 2.5 SHOWER WALLS

Provide 8' long by approximately 7' high walls fabricated from rigid, impervious, waterproof material, either corrugated fiberglass roofing or equivalent. Structurally support as necessary for stability.

#### 2.6 SHOWER HEAD AND CONTROLS

Provide a factory-made showerhead producing a spray of water, which can be adjusted for spray size and intensity. Feed shower with water mixed from hot and cold supply lines. Arrange so that control of water temperature, flow rate, and shut off is from inside shower without outside aid.

#### 2.7 FILTERS

Provide cascaded filter units on drain lines from showers or any other water source carrying asbestos-contaminated water from the Work Area. Provide units with disposable filter elements as indicated below. Connect so that discharged water passes primary filter and output of primary filter passes through secondary filter.

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face dual cartridge-type respirator.

- B. Plastic installation, which does not disturb asbestos-containing material: Half-face dual cartridge-type respirator.
- C. Removing or cleaning items or plastic installation when such operation may disturb asbestos-containing material: Powered air purifying respirator (PAPR).
- D. Asbestos-containing material removal: Powered air purifying respirator (PAPR).
- E. Gross cleanup of removal area(s): Powered air purifying respirator (PAPR).
- F. Installation of encapsulant after air sampling results indicates 0.01 or less f/cc and before plastic removal: powered air purifying respirators.
- G. Final wet cleaning of walls until final air tests show exposure in work areas to be below 0.01 f/cc: powered air purifying respirators.
- H. Loading and unloading drums on truck (outside work area): Half-face cartridge respirators.
- I. Glove bag and modified glove bag removal: Powered air purifying respirator (PAPR).
- J. Vinyl-asbestos floor tile, floor tile mastic, ceiling tile, cement-asbestos board removal: Powered air purifying respirator (PAPR).
- K. Built-up roofing and roof flashing removal: Half-face dual cartridge respirators.
- L. Disposal at landfill: Half-face dual cartridge respirator.

3.3.3 Fibers: For purposes of this section fibers are defined as all fibers regardless of composition as counted in the OSHA Reference Method (ORM), NIOSH Method 7400 procedure, or asbestos fibers of any size as counted using either a scanning or transmission electron microscope.

#### 3.4 AIR PURIFYING RESPIRATORS

3.4.1 Negative pressure - half or full face mask: Supply a sufficient quantity of respirator filters approved for asbestos, so that workers can change filters during the workday. Require that respirators are wet-rinsed, and filters discarded, each time a worker leaves the Work Area. Require that new filters be installed each time a worker re-enters the Work Area. Store respirators and filters at the job site in the changing room and protect totally from exposure to asbestos prior to their use.

3.4.2 Powered air purifying - half or full face mask: Supply a sufficient quantity of high efficiency respirator filters approved for asbestos so that workers can change filters at any time that flow through the face piece decreases to the level at which the manufacturer recommends filter replacement. Require that regardless of flow, filter cartridges be replaced after 40 hours of use. Require that HEPA elements in filter cartridges be protected from wetting during showering. Require entire exterior housing of respirator, including blower unit, filter cartridges, hoses, battery pack, face mask, belt, and cords, be washed each time a worker leaves the Work Area. Caution should be used to avoid shorting battery pack during washing. Provide an extra battery pack for each respirator so that one can be charging while one is in use.

END OF SECTION - 01562

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Forensic Analytical		Analysis Request Form					
Client Name & Address: <i>MTGL, Inc.</i>		P.O. #:		Date:			
<i>7313 Carroll Rd. - Sk. G</i>		Turn Around Time: <input type="checkbox"/> 1hr / <input type="checkbox"/> 12hr / <input type="checkbox"/> 24hr / <input type="checkbox"/> 48hr / <input type="checkbox"/> Ext:					
<i>San Diego, CA 92121</i>		Due Date:		Due Time:			
Contact: <i>Michelle Ekresman</i>		<input checked="" type="checkbox"/> PLM: <input checked="" type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / <input type="checkbox"/> PCM: NIOSH 7400 / <input type="checkbox"/> Point Count 1000					
Phone #:		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamato2 / <input type="checkbox"/> NIOSH 7402					
Fax #:		<input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield					
Site: <i>Valencia Library</i>		<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> Wt %					
Job:		<input type="checkbox"/> TEM Microvac					
Comments / Email Reports To:		<input type="checkbox"/> Special Project:					
		<input type="checkbox"/> Metals Analysis: Method _____					
		Matrix: _____					
		Analytes: _____					
Sample ID	Date/Time	Sample Location/Description	FOR AIR SAMPLES ONLY				Sample Area or Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
<i>19</i>	<i>6/5</i>	<i>Exterior Stucco East Side</i>	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
<i>20</i>	<i>6/5</i>	<i>Reception Entry Wall board</i>	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
			<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
Sampled by: <i>Michelle Ekresman</i>		Date:		Time:			
Shipped via: <input checked="" type="checkbox"/> Fed Ex / <input type="checkbox"/> Airborne / <input type="checkbox"/> UPS / <input type="checkbox"/> US Mail / <input type="checkbox"/> Courier / <input type="checkbox"/> Drop Off / <input type="checkbox"/> Other:							
Relinquished by: <i>ME</i>		Relinquished by:		Relinquished by:			
Date / Time: <i>6/5/08</i>		Date / Time:		Date / Time:			
Received by: <i>Shanti Prasad</i>		Received by:		Received by:			
Date / Time: <i>6/11/08 3 AM</i>		Date / Time:		Date / Time:			
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No			

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545 / Telephone: (510) 887-8828 (800) 827-FAS / Fax: (510) 887-4218  
 Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310) 763-2974 / Fax: (310) 763-8684  
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Telephone: (702) 387-0040 / Fax: (702) 794-0030



Forensic Analytical		Analysis Request Form					
Client Name & Address:		P.O. #:		Date:			
MTGE, Inc. 7313 Carroll Rd. Ste. G San Diego, CA 92121		Turn Around Time: <input type="checkbox"/> hr / <input type="checkbox"/> 12hr / <input type="checkbox"/> 24hr / <input type="checkbox"/> 48hr /		<input type="checkbox"/> Ext:			
		Due Date:		Due Time:			
Contact:		APLM: <input checked="" type="checkbox"/> Standard / <input type="checkbox"/> Point Count 400 / <input type="checkbox"/> PCM: NIOSH 7400		<input type="checkbox"/> Point Count 1000			
Phone #:		<input type="checkbox"/> TEM Air: <input type="checkbox"/> AHERA / <input type="checkbox"/> Yamatai2 / <input type="checkbox"/> NIOSH 7402		<input type="checkbox"/> TEM Bulk: <input type="checkbox"/> Quantitative / <input type="checkbox"/> Qualitative / <input type="checkbox"/> Chatfield			
Fax #:		<input type="checkbox"/> TEM Water: <input type="checkbox"/> Potable / <input type="checkbox"/> Non-Potable / <input type="checkbox"/> WI %		<input type="checkbox"/> TEM Microvac			
Site: Valencia Library		<input type="checkbox"/> Special Project:		<input type="checkbox"/> Metals Analysis: Method _____			
Job:		Matrix: _____		Analytes: _____			
Comments / Email Reports To:							
Sample ID	Date/Time	Sample Location/Description	FOR AIR SAMPLES ONLY				Sample Area or Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
10	6/5	Roof Penetration	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
11	6/5	Roller Roofing	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
12		Roller Roofing	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
13		Roller Roofing	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
14		Mechanical Room 6" Pipe Cover	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
15		Exterior Stucco West Side	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
16		Exterior Stucco S-Side Alcove	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
17		Exterior Stucco South	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
18		Exterior Stucco N-Side	<input type="checkbox"/> A <input type="checkbox"/> P <input type="checkbox"/> C				
Sampled by: Michelle Christman		Date:		Time:			
Shipped via: <input checked="" type="checkbox"/> Fed Ex <input type="checkbox"/> Airborne <input type="checkbox"/> UPS <input type="checkbox"/> US Mail <input type="checkbox"/> Courier <input type="checkbox"/> Drop Off <input type="checkbox"/> Other:							
Relinquished by: MCI		Relinquished by:		Relinquished by:			
Date / Time: 6/5/05		Date / Time:		Date / Time:			
Received by: Elvira Yrnsak		Received by:		Received by:			
Date / Time: 6/13/05		Date / Time:		Date / Time:			
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No		Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No			

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545 / Telephone: (510) 887-8828 (800) 827-FAS1 / Fax: (510) 887-4218  
 Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310) 763-2374 / Fax: (310) 763-8664  
 Las Vegas Office: 6755 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Telephone: (702) 387-0040 / Fax: (702) 764-0030

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**Forensic Analytical Analysis Request Form**

Client Name & Address: MTGL, Inc.  
7313 Carroll Rd. Ste. G  
San Diego, CA 92121

Contact: Michelle (Shelly) Ekresman

Phone #: 858-688-6306

Fax #: 858-537-3990

Site: Valencia Library

Job: \_\_\_\_\_

P.O. #: Verbal Date: 6/5/05

Turn Around Time:  hr /  12hr /  24hr /  48hr /  
 Ext. Standard TAT

Due Date: \_\_\_\_\_ Due Time: \_\_\_\_\_

PLM:  Standard /  Point Count 400  PCM: NIOSH 7400  
 Point Count 1000

TEM Air:  AHERA /  Yamate2 /  NIOSH 7402  
 TEM Bulk:  Quantitative /  Qualitative /  Chatfield  
 TEM Water:  Potable /  Non-Potable /  Wt %  
 TEM Microvac  
 Special Project: \_\_\_\_\_

Metals Analysis: Method \_\_\_\_\_  
 Matrix: \_\_\_\_\_  
 Analytes: \_\_\_\_\_

? 57

Comments / Email Reports To: \_\_\_\_\_

Sample ID	Date/Time	Sample Location/Description	FOR AIR SAMPLES ONLY				Sample Area or Air Volume
			Type	Time On/Off	Avg. LPM	Total Time	
1	6/5	Attic / Exterior Wall Seam putty	A P C				
2		Loading Dock Bay door putty	A P C				
3		Attic - Exterior window putty	A P C				
4		Exterior window putty	A P C				
5		Exterior window putty	A P C				
6		Exterior window putty	A P C				
7		Roof penetration w/ silver paint	A P C				
8		Roof Penetration	A P C				
9	6/5	Roof Penetration	A P C				

Sampled by: Michelle Ekresman Date: \_\_\_\_\_ Time: \_\_\_\_\_

Shipped via:  Fed Ex  Airborne  UPS  US Mail  Courier  Drop Off  Other: \_\_\_\_\_

Relinquished by: <u>[Signature]</u>	Relinquished by: _____	Relinquished by: _____
Date / Time: <u>6/5/08</u>	Date / Time: _____	Date / Time: _____
Received by: <u>Bhaskar Prasad</u>	Received by: _____	Received by: _____
Date / Time: <u>6/10/08 3pm</u>	Date / Time: _____	Date / Time: _____
Condition Acceptable? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No	Condition Acceptable? <input type="checkbox"/> Yes <input type="checkbox"/> No

San Francisco Office: 3777 Depot Road, Suite 409, Hayward, California 94545 / Telephone: (510) 887-8828 (800) 827-FA61 / Fax: (510) 887-4216  
 Los Angeles Office: 2959 Pacific Commerce Drive, Rancho Dominguez, California 90221 / Telephone: (310) 763-2374 / Fax: (310) 763-8884  
 Las Vegas Office: 6765 S. Eastern Avenue, Suite 3, Las Vegas, Nevada 89119 / Telephone: (702) 367-0040 / Fax: (702) 764-0030

Client Name: MTGL

Report Number: B113738  
Date Printed: 06/13/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
19	10764452						
		Layer: Grey Cementitious Material	ND				
		Layer: Beige Cementitious Material	ND				
		Layer: Paint	ND				
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (Trace)					
20	10764453						
		Layer: Brown Non-Fibrous Material	ND				
		Layer: Off-White Woven Material	ND				
		Total Composite Values of Fibrous Components:	Asbestos (ND)				
		Cellulose (10 %)					

James Flores, Laboratory Supervisor, Hayward Laboratory

Note: Limit of Quantification (LOQ) = 1%. 'Trace' denotes the presence of asbestos below the LOQ. 'ND' = 'None Detected'.

Analytical results and reports are generated by Forensic Analytical at the request of and for the exclusive use of the person or entity (client) named on such report. Results, reports or copies of same will not be released by Forensic Analytical to any third party without prior written request from client. This report applies only to the sample(s) tested. Supporting laboratory documentation is available upon request. This report must not be reproduced except in full, unless approved by Forensic Analytical. The client is solely responsible for the use and interpretation of test results and reports requested from Forensic Analytical. This report must not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government. Forensic Analytical is not able to assess the degree of hazard resulting from materials analyzed. Forensic Analytical reserves the right to dispose of all samples after a period of thirty (30) days, according to all state and federal guidelines, unless otherwise specified. All samples were received in acceptable condition unless otherwise noted.

3777 Depot Road, Suite 409, Hayward, CA 94545 / Telephone: (510) 887-8828 (800) 827-FA51 / Fax: (510) 887-4218

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Client Name: MTGL

Report Number: B113738

Date Printed: 06/13/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
13	10764446						
		Layer: Black Tar Stones			ND		
		Layer: Black Felt			ND		
		Layer: Black Tar			ND		
		Layer: Black Felt			ND		
		Layer: Black Tar			ND		
		Layer: Black Felt			ND		
		Layer: Black Tar			ND		
		Layer: Black Felt			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Fibrous Glass (55 %)					
		Comment: Bulk complex sample.					
14	10764447						
		Layer: Beige Woven Material			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (99 %)					
15	10764448						
		Layer: Grey Cementitious Material			ND		
		Layer: Beige Cementitious Material			ND		
		Layer: Paint			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
16	10764449						
		Layer: Grey Cementitious Material			ND		
		Layer: Beige Cementitious Material			ND		
		Layer: Paint			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
17	10764450						
		Layer: Grey Cementitious Material			ND		
		Layer: Beige Cementitious Material			ND		
		Layer: Paint			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
18	10764451						
		Layer: Grey Cementitious Material			ND		
		Layer: Beige Cementitious Material			ND		
		Layer: Paint			ND		
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					

Client Name: MTGL

Report Number: B113738  
Date Printed: 06/13/08

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
8	10764441						
		Layer: Black Semi-Fibrous Tar					ND
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (10 %)					
9	10764442						
		Layer: Black Semi-Fibrous Tar		Chrysotile			5 %
		Total Composite Values of Fibrous Components:		Asbestos (5%)			
		Cellulose (Trace)					
10	10764443						
		Layer: Black Tar					ND
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
11	10764444						
		Layer: Black Tar Stones					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (25 %) Fibrous Glass (40 %)					
		Comment: Bulk complex sample.					
12	10764445						
		Layer: Black Tar Stones					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Layer: Black Tar					ND
		Layer: Black Felt					ND
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (25 %) Fibrous Glass (40 %)					
		Comment: Bulk complex sample.					



# Bulk Asbestos Analysis

(EPA Method 600/R-93-116, Visual Area Estimation)

MTGL  
Michelle Ekresman  
7313 Carroll Rd., Ste G  
  
San Diego, CA 92121

Client ID: L1098  
Report Number: B113738  
Date Received: 06/10/08  
Date Analyzed: 06/12/08  
Date Printed: 06/13/08  
First Reported: 06/13/08

Job ID/Site: Valencia Library  
  
Date(s) Collected: 06/05/2008

FAEI Job ID: L1098  
Total Samples Submitted: 20  
Total Samples Analyzed: 20

Sample ID	Lab Number	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer	Asbestos Type	Percent in Layer
1	10764434	Chrysotile	3 %				
		Layer: Off-White Putty					
		Total Composite Values of Fibrous Components:		Asbestos (3%)			
		Cellulose (Trace)					
2	10764435						
					ND		
					ND		
		Layer: Grey Putty					
		Layer: Paint					
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
3	10764436						
					ND		
		Layer: Clear Putty					
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
4	10764437						
					ND		
					ND		
		Layer: Grey Putty					
		Layer: Paint					
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
5	10764438						
					ND		
					ND		
		Layer: Grey Putty					
		Layer: Paint					
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
6	10764439						
					ND		
					ND		
		Layer: Grey Putty					
		Layer: Paint					
		Total Composite Values of Fibrous Components:		Asbestos (ND)			
		Cellulose (Trace)					
7	10764440	Chrysotile	3 %	Chrysotile	3 %		
		Chrysotile	3 %				
		Layer: Black Semi-Fibrous Tar					
		Layer: Silver Paint					
		Total Composite Values of Fibrous Components:		Asbestos (3%)			
		Cellulose (Trace)					

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**APPENDIX A**

**LABORATORY RESULTS AND CHAIN OF CUSTODY**

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**Appendices**



## Warranty

MTGL, Inc. warrants that the findings contained herein have been prepared with the level of care and skill exercised by experienced and knowledgeable environmental and construction consultants who are appropriately licensed or otherwise trained to perform the assessments pursuant to the scope of work required on this project.

MTGL, Inc. warrants that the findings contained herein have been prepared in general accordance with accepted professional practices as applied by similar professionals in the community at the time of its preparation. Changes in the state of the art or in applicable regulations cannot be anticipated and have not been addressed in this report.

Assessments were based off of accessible locations only. MTGL did not inspect or sample inaccessible areas such as behind walls or within ductwork, and did not dismantle any part of the structure to survey inaccessible areas. For the purpose of this warranty, inaccessible is defined as areas of the building that could not be tested (sampled) without destruction of the structure or a portion of the structure.

Results were obtained through previous experience, thorough job evaluations with minimum intrusion, and brief discussions with city personnel for what might be required. There is no guarantee for this report. There are many branches of the city that might require additional work such as; Historical, Fire and Storm Water divisions not able to review. Costs associated with these findings will have a 10% (+/-) factor based on when the work will be done and material costs/availability at that time and should be used for budget purposes only.

Upon reviewing your site, we found areas of work that will need to be repaired in order for you to lease your building with confidence. Some of these items are only suggestions, either for appearance or to reduce future maintenance. We have provided a scope of work with itemized pricing based on current fees. Please review to choose what's best for your direction of the building. Upgrade and remodel costs can be found in Appendix D.

## Hazardous Materials Estimated Removal Costs

The following are the estimated hazardous material removal costs prior to the repair, remodel, upgrade and/or demolition of Table number one represents cost estimate figures for the removal of the Asbestos Containing Materials (ACM) located at the subject site. Table number 2 represents other Hazardous Material cost estimates. These cost estimates are provided for estimating for budgeting and planning only. The actual cost of asbestos removal is highly dependent on a number of factors such as, choice of contractor and qualifications, contractor mobilization costs, the required time frame for removal; therefore, actual abatement costs could vary significantly from these estimates. Replacement costs have not been included in these figures. The cost for abatement design and management are not included in these costs and do not have a level of accuracy sufficient to be used as a construction design cost estimate. Some ACMs may remain in place during building renovations, as long as they are not disturbed and/or damaged.

**TABLE I-Asbestos Containing Materials**

Material Description	Location	Asbestos Content	Approximate Quantity*	Cost per Unit SF/cutout/ea.	Cost Estimate
Plaster/Drywall/Joint Compound	Interior Walls	3%	5,500 SF	\$3.25-\$5.50/SF	\$17,875-\$30,250
Roof Penetration Mastic with Silver Paint	Roof	3%-5%	50 cutouts	\$58-\$195/cutout	\$2,900-\$9,750
Exterior Wall Putty (Expansion)	Exterior Walls	3%	Undetermined	\$5.75/SF	N/A
Flexible Gasket	Mechanical Room	Presumed	10 SF	\$30/SF	\$300
Transite Flue Pipe	Roof	Presumed	3-6 Flue Pipes	\$23.50-\$195/ea	\$141-\$1,170
Hazardous Material Abatement Project Monitoring (Based on a daily Rate)			15	\$450/ea.	\$6,750.00
<b>Total Estimated Cost</b>					<b>\$27,966-\$48,220</b>

\*Estimate only. Not for bidding purposes. Actual costs determined by individual abatement contractors following a visual assessment.

**TABLE 2-Other Hazardous Materials**

Material Description	Location	Approximate Quantity*	Cost per Unit SF/cutout/ea.	Cost Estimate
Fluorescent Light Tubes	Throughout	160	\$7.80-\$13/ea.	\$1,248-\$2,080
Mercury Thermostats	Throughout	3	\$7.80-\$13/ea	\$23.40-\$39
Lead Based Ceramic Wall Tiles	Men & Women's Bathrooms	80 SF	\$3.25-\$5.50/SF	\$260-\$440
	<i>Toxicity Characteristic Leaching Procedure (TCLP) may be necessary prior to disposal of components coated with lead-based paint during renovation/demolition of the facility. **</i>			
<b>Total Estimated Cost</b>				<b>\$1,531.40-\$2,559</b>

\*Estimate only. Not for bidding purposes. Actual costs determined by individual abatement contractors following a visual assessment. Cost estimates are based on industry standards.

\*\* The Resource Conservation and Recovery Act (RCRA), Subtitles C and D, require that the waste must be analyzed to determine the amount of leachable lead present. The type of test to be performed on the waste is the toxicity Characteristic Leaching Procedure (TCLP) for lead, and the results of this test will determine whether the material must be handled and disposed of as hazardous waste.

**Note:**

SF: Square Foot

Ea: Each

**OPTION #3: Pricing to demolish the existing building leaving only the property for lease for sale. (Based on the city allowance of complete demolition of the building.)**

The last report requested is complete demolition of building and secure premises. After a review San Diego City Policies, we found documentation that might not allow the demolition of this building without having a pre-submitted permit for anything else. It clearly states all buildings facing Imperial Ave. will fall under this policy (adopted back in 1988). Since this building doesn't face Imperial, it might be exempt; however, without pre-submitting a permit to demolish, it will be hard to determine costs based on whatever the requirements could be. We can figure costs to demolish building, parking lot/lights and cap utilities 5' on property line. The scope would be as followed:

<b>Full Demolition</b>
<ul style="list-style-type: none"><li>- Remove all hazardous materials from building under monitored conditions.</li><li>- Pull addition encroachment permit to build temporary barrier over or beside sidewalk area during building demolition.</li><li>- Remove utilities to building securing within 5' of property line.</li><li>- Demolish building and remove from premises.</li><li>- Demolish and remove parking lot (asphalt).</li><li>- Contract for temporary fencing around property for 6 months.</li><li>- Provide storm control surrounding side walk.</li></ul>
<b>Estimated Total (without permits): \$120,779.00**</b>

\*\* Include the cost for hazardous abatement and monitoring.

Estimates for the hazardous material removal costs can be found on the following page. These prices have been included in the full demolition pricing.

**Table #2-Option #2-Repairs for ADA Compliance cont...**

<p><b>Men's Restroom-ADA and Code Compliance*</b></p> <ul style="list-style-type: none"> <li>- Demo complete: remove partitions, toilets, dispensers, tile and all drywall to expose plumbing.</li> <li>- Relocate supply and drain piping to make urinal ADA compliant.</li> <li>- Provide wood backing and insulation in walls and ceiling.</li> <li>- Install 5/8 type X drywall complete and texture.</li> <li>- Install +/- 80sqft of tile over floor after prep.</li> <li>- Install FRP board minimum of 48" over exposed drywall areas.</li> <li>- Install new toilet and urinal and flush valves.</li> <li>- Paint complete.</li> <li>- Install handicap railing per code.</li> <li>- Install new toilet roll, seat cover, soap, paper towel dispensers and mirror.</li> <li>- Install new lights, fan motor/grill and vanity light.</li> <li>- Install new 36" door with vacant/occupied window.</li> <li>- Signage on door, push/pull handles.</li> </ul>
<p><b>Staff Restroom-ADA and Code Compliance*</b></p> <ul style="list-style-type: none"> <li>- Demo complete: remove partitions, toilets, dispensers, tile and all drywall to expose plumbing.</li> <li>- Relocate supply and drain piping to make urinal ADA complaint.</li> <li>- Provide wood backing, insulate walls and ceiling.</li> <li>- Install 5/8 type X drywall complete and texture.</li> <li>- Install FRP board minimum of 48" over exposed drywall areas.</li> <li>- Install new toilet and urinal with flush valves.</li> <li>- Paint complete.</li> <li>- Install handicap railing per code.</li> <li>- Install new toilet roll, seat cover, soap, paper towel dispensers and mirror.</li> <li>- Install new light, fan motor/grill and vanity light.</li> <li>- Install new 36" door with vacant/occupied window.</li> <li>- Signage on door, push/pull handles.</li> </ul>
<p><b>Estimated Total: \$223,852.00**</b></p>

\*Dependant on the usage and or/ additional code compliances that may be required. This budget us subject for change.

\*\*Estimate is a combined total of Table 1 and Table 2. Total Estimate does not include the hazardous abatement costs. Please see the hazardous abatement cost sheet following the Option #3 section in this report.

**Table #2-Option #2-Repairs for ADA Compliance cont...**

<p><b>Interior Building- Heater Room (112sqft.)</b></p> <ul style="list-style-type: none"> <li>- Clean existing heater system and replace filtration.</li> <li>- Replace buss fuses, clean contacts.</li> <li>- Replace Thermostats.</li> <li>- Clean existing phone block.</li> <li>- Tone and test 6 phone connections</li> </ul>
<p><b>Interior Building- Women's Restroom (40sqft)</b></p> <ul style="list-style-type: none"> <li>- Demo lighting, ceiling tiles and insulation.</li> <li>- Demo toilets, paper towel, sanitation box and seat cover dispenser.</li> <li>- Replace exhaust motor and grill.</li> <li>- Install R-30 insulation.</li> <li>- Install 5/8" type X drywall and retexture.</li> <li>- Clean and seal all tile (repair if necessary).</li> <li>- Repair and paint existing partitions.</li> <li>- Paint complete.</li> <li>- Install 2ea. new toilets.</li> </ul>
<p><b>Interior Building- Men's Restroom (40sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo lighting, ceiling tiles and insulation.</li> <li>- Demo toilet, urinal, seat cover and paper towel dispensers.</li> <li>- Replace exhaust motor and grill.</li> <li>- Install R-30 insulation.</li> <li>- Install 5/8" Type X drywall and retexture.</li> <li>- Clean and seal all tile (repair as necessary).</li> <li>- Repair and paint existing partitions.</li> <li>- Paint complete.</li> <li>- Install 1ea toilet, 1ea urinal.</li> <li>- Rebuild existing flush valves with repair kits.</li> <li>- Install new faucet, supplies and P-trap assembly.</li> <li>- Install new toilet paper, seat cover, soap and paper towel dispensers.</li> <li>- Install new ceiling lighting and wall sconce (vanity).</li> <li>- Install new mirror.</li> </ul>
<p><b>Women's Restroom-ADA Compliance*</b></p> <ul style="list-style-type: none"> <li>- Demo Complete: Remove partitions, toilets, dispensers, tile and all drywall to expose plumbing.</li> <li>- Remove concrete in order to cap 1ea 3" drain.</li> <li>- Remove copper or galvanized pipe feeding as necessary.</li> <li>- Provide wood backing and insulation in walls and ceiling.</li> <li>- Install drywall complete and texture.</li> <li>- Install +/- 80sqft of tile over floor after prep.</li> <li>- Install FRP board minimum of 48" over exposed drywall areas.</li> <li>- Paint complete.</li> <li>- Install handicap railing per code.</li> <li>- Install new toilet/flush valve.</li> <li>- Install new sink, faucet, and accessories.</li> <li>- Install new toilet roll, sanitary, seat cover, soap, paper towel dispensers/mirror.</li> <li>- Install new lights, exhaust fan motor/grill and vanity light.</li> <li>- Install new 36" door with vacant/occupied window.</li> <li>- Signage on door, push/pull handles.</li> </ul>

**Table #2-Option #2-Repairs for ADA Compliance cont..**

<p><b>Interior Building- Library (2300sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo carpet.</li> <li>- Remove lighting and protect for re-installation.</li> <li>- Remove registers, grills, protect for re-installation.</li> <li>- Remove all ceiling tiles and insulation.</li> <li>- Install R-30 insulation throughout ceiling area.</li> <li>- Install 5/8" type X drywall over existing joists.</li> <li>- Patch and repair existing walls.</li> <li>- Remove moldy drywall and repair areas developing mold</li> <li>- Repair shelving area and reseal.</li> <li>- Paint complete.</li> <li>- Reinstall lighting and registers (repaint).</li> <li>- Replace bad ballasts and install new bulbs.</li> <li>- Install new switches and outlets.</li> <li>- Install glue-down commercial grade carpet.</li> <li>- Cover vinyl with commercial grade.</li> </ul>
<p><b>Interior Building- Reception (200sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo carpet.</li> <li>- Remove stage area.</li> <li>- Patch drywall and retexture.</li> <li>- Repair cabinetry as needed.</li> <li>- Paint complete and reseal cabinetry.</li> <li>- Install commercial grade carpet.</li> </ul>
<p><b>Interior Building- Drop-in Area (150sqft.)</b></p> <ul style="list-style-type: none"> <li>- Patch and retexture drywall walls.</li> <li>- Repair sink and replace faucet.</li> <li>- Repair drop-box area and shelving around.</li> <li>- Paint complete.</li> <li>- New lights (surface mount)</li> <li>- Test sub-panel and replace 2 breakers.</li> <li>- Replace switches and outlets</li> </ul>
<p><b>Interior Building- Loading Area (420sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo +/- 800sqft of drywall @ west exterior wall area and ceiling.</li> <li>- Remove all insulation.</li> <li>- Replace deteriorated wood from water and termite damage.</li> <li>- Re-insulate walls with R-13.</li> <li>- Re-insulate ceiling with R-30.</li> <li>- Install 5/8 Type X drywall over exposed areas and retexture complete.</li> <li>- Paint complete.</li> <li>- Replace garage door opener.</li> <li>- Repair existing garage door with misc. hardware and add locking device. Adjust spring as necessary.</li> <li>- Replace "man-doors" leading to loading area with 60 min. fire rated doors with self closers and thresholds.</li> <li>- Replace switches, outlets and lighting (surface).</li> </ul>

The following is an estimated scope of work and cost estimate for Option #2:

**OPTION #2 Repairs and pricing needed to bring the building ADA Compliancy.**

**Table #2-Option #2-Repairs for ADA Compliance**

<p><b>Exterior</b></p> <ul style="list-style-type: none"> <li>- Repair existing sprinkler system.</li> <li>- Repair existing wood fencing.</li> <li>- Add irrigation and plant theme to patio "foyer area".</li> <li>- Cut back bushes and trim trees in parking area along East property.</li> <li>- Grind trip areas of concrete in "foyer area" and side walk leading to.</li> <li>- Patch &amp; seal asphalt cracks; Seal coat and stripe parking area (4900sqft.)</li> <li>- Remove temporary fencing at parking area.</li> <li>- Repair existing light poles and provide new bulbs.</li> </ul>
<p><b>Exterior Building</b></p> <ul style="list-style-type: none"> <li>- Add accent color to trim areas of building.</li> <li>- Remove roofing material (costs provided in Asbestos Report)</li> <li>- Replace damaged sheeting.</li> <li>- Repair roof drains and down spouts.</li> <li>- Install torch down (or equal rating) with new flashing as necessary.</li> <li>- Repair existing stucco damage and touch up paint as necessary.</li> <li>- Repair and adjust front door framing and touch up with aluminum paint.</li> <li>- Replace venting to heater room door for additional air flow.</li> <li>- Replace exterior lighting</li> </ul>
<p><b>Interior Building-Entry Room (70sqft)</b></p> <ul style="list-style-type: none"> <li>- Install new stick down commercial flooring over existing.</li> <li>- Repair drywall and retexture.</li> <li>- Remove corrosive rust forming around door &amp; reseal substrate.</li> <li>- Repaint walls, ceiling and molding.</li> <li>- Tone, test all electrical and replace outlets and switches.</li> <li>- Replaces lighting ballasts and new bulbs.</li> </ul>
<p><b>Interior Building- Staff Restroom (80sqft.)</b></p> <ul style="list-style-type: none"> <li>- Replace exhaust fan.</li> <li>- Replace mirror.</li> <li>- Replace faucet.</li> <li>- Patch and repair walls.</li> <li>- Retexture and paint with semi-gloss product.</li> <li>- Rebuild flushing valves.</li> <li>- Replace new toilet paper holder, seat cover holder, paper towel dispenser, sanitary box, soap dispenser.</li> <li>- Replace switches, GFI's, fans, ceiling lighting, and sconce (vanity).</li> <li>- Cover vinyl with commercial grade.</li> </ul>
<p><b>Interior Building- Staff Kitchen (300sqft.)</b></p> <ul style="list-style-type: none"> <li>- Patch and repair walls and ceilings.</li> <li>- Paint walls and ceilings.</li> <li>- Replace switches, GFI's, ceiling lighting.</li> <li>- Replace faucet, drain assembly and supply lines.</li> <li>- Replace carpeting with glue down commercial grade. Cover vinyl w/ commercial grade</li> </ul>

**Table 1: Option #1-Construction to Repair/Lease for Sale (cont.)\***

<b>Interior Building- Men's Restroom (40sqft.) cont...</b>	
- Clean and seal all tile (repair as necessary).	
- Repair and paint existing partitions.	
- Paint complete.	
- Install 1ea toilet, 1ea urinal.	
- Rebuild existing flush valves with repair kits.	
- Install new faucet, supplies and P-trap assembly.	
- Install new toilet paper, seat cover, soap and paper towel dispensers.	
- Install new ceiling lighting and wall sconce (vanity).	
- Install new mirror.	
	<b>Estimated Total: \$215,702.00**</b>

\*Dependant on usage. Additional code compliance may be required resulting in a change in the budget.

\*\*Total Estimate does not include the hazardous abatement costs. Please see the hazardous abatement cost sheet following the Option #3 section in this report.

In the previous report provided by SCS Engineers, it was estimated that approximately 5,500 sqft. of interior walls throughout the building are asbestos containing. Option #1 has been based on the replacement of the 5,500 sqft of 5/8' drywall and R-13 insulations after abatement. It is our estimate that this will leave a remaining 3,400 sqft. (approx.) to be removed in order to eliminate the asbestos and possible mold contamination. The cost could be increased by as much as \$8,690. This estimate would include the removal and replacement of existing cabinetry. For an itemized cost breakdown of Option #1, please refer to Appendix D.



**Table 1: Option #1-Construction to Repair/Lease for Sale (cont.)\***

<p><b>Interior Building- Loading Area (420sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo +/- 800sqft of drywall @ west exterior wall area and ceiling.</li> <li>- Remove all insulation.</li> <li>- Replace deteriorated wood from water and termite damage.</li> <li>- Re-insulate walls with R-13.</li> <li>- Re-insulate ceiling with R-30.</li> <li>- Install 5/8 Type X drywall over exposed areas and retexture complete.</li> <li>- Paint complete.</li> <li>- Replace garage door opener.</li> <li>- Repair existing garage door with misc. hardware and add locking device. Adjust spring as necessary.</li> <li>- Replace "man-doors" leading to loading area with 60 min. fire rated doors with self closers and thresholds.</li> <li>- Replace switches, outlets and lighting (surface).</li> </ul>
<p><b>Interior Building- Heater Room (112sqft.)</b></p> <ul style="list-style-type: none"> <li>- Clean existing heater system and replace filtration.</li> <li>- Replace buss fuses, clean contacts.</li> <li>- Replace Thermostats.</li> <li>- Clean existing phone block.</li> <li>- Tone and test 6 phone connections</li> </ul>
<p><b>Interior Building- Women's Restroom (40sqft)</b></p> <ul style="list-style-type: none"> <li>- Demo lighting, ceiling tiles and insulation.</li> <li>- Demo toilets, paper towel, sanitation box and seat cover dispenser.</li> <li>- Replace exhaust motor and grill.</li> <li>- Install R-30 insulation.</li> <li>- Install 5/8" type X drywall and retexture.</li> <li>- Clean and seal all tile (repair if necessary).</li> <li>- Repair and paint existing partitions.</li> <li>- Paint complete.</li> <li>- Install 2ea. new toilets.</li> </ul>
<p><b>Interior Building- Women's Restroom (40sqft)</b></p> <ul style="list-style-type: none"> <li>- Rebuild existing flush valves with repair kits.</li> <li>- Install new faucet, supplies and P-trap assembly.</li> <li>- Install new toilet paper, seat cover, sanitary, soap and paper towel dispensers.</li> <li>- Install new ceiling lighting and wall sconce (vanity).</li> <li>- Install new mirror</li> </ul>
<p><b>Interior Building- Men's Restroom (40sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo lighting, ceiling tiles and insulation.</li> <li>- Demo toilet, urinal, seat cover and paper towel dispensers.</li> <li>- Replace exhaust motor and grill.</li> <li>- Install R-30 insulation.</li> <li>- Install 5/8" Type X drywall and retexture.</li> </ul>

**Table 1: Option #1-Construction to Repair/Lease for Sale\***

<p><b>Interior Building- Staff Kitchen (300sqft.)</b></p> <ul style="list-style-type: none"> <li>- Patch and repair walls and ceilings.</li> <li>- Paint walls and ceilings.</li> <li>- Replace switches, GFI's, ceiling lighting.</li> <li>- Replace faucet, drain assembly and supply lines.</li> <li>- Replace carpeting with glue down commercial grade. Cover vinyl with commercial grade.</li> </ul>
<p><b>Interior Building- Library (2300sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo carpet.</li> <li>- Remove lighting and protect for re-installation.</li> <li>- Remove registers, grills, protect for re-installation.</li> <li>- Remove all ceiling tiles and insulation.</li> <li>- Install R-30 insulation throughout ceiling area.</li> <li>- Install 5/8" type X drywall over existing joists.</li> <li>- Patch and repair existing walls.</li> <li>- Remove moldy drywall and repair areas developing mold</li> <li>- Repair shelving area and reseal.</li> <li>- Paint complete.</li> <li>- Reinstall lighting and registers (repaint).</li> <li>- Replace bad ballasts and install new bulbs.</li> <li>- Install new switches and outlets.</li> <li>- Install glue-down commercial grade carpet.</li> <li>- Cover vinyl with commercial grade.</li> </ul>
<p><b>Interior Building- Reception (200sqft.)</b></p> <ul style="list-style-type: none"> <li>- Demo carpet.</li> <li>- Remove stage area.</li> <li>- Patch drywall and retexture.</li> <li>- Repair cabinetry as needed.</li> <li>- Paint complete and reseal cabinetry.</li> <li>- Install commercial grade carpet.</li> </ul>
<p><b>Interior Building- Drop-in Area (150sqft.)</b></p> <ul style="list-style-type: none"> <li>- Patch and retexture drywall walls.</li> <li>- Repair sink and replace faucet.</li> <li>- Repair drop-box area and shelving around.</li> <li>- Paint complete.</li> <li>- New lights (surface mount)</li> <li>- Test sub-panel and replace 2 breakers.</li> <li>- Replace switches and outlets</li> </ul>

**OPTION #1: Repairs Necessary for Either Lease or Sale Based on Existing Damage Visible and Exploratory Done.**

**Table 1: Option #1-Construction to Repair/Lease for Sale\***

<p><b>Exterior</b></p> <ul style="list-style-type: none"> <li>- Repair existing sprinkler system.</li> <li>- Repair existing wood fencing.</li> <li>- Add irrigation and plant theme to patio "foyer area".</li> <li>- Cut back bushes and trim trees in parking area along East property.</li> <li>- Grind trip areas of concrete in "foyer area" and side walk leading to.</li> <li>- Patch &amp; seal asphalt cracks; Seal coat and stripe parking area (4900sqft.)</li> <li>- Remove temporary fencing at parking area.</li> <li>- Repair existing light poles and provide new bulbs.</li> </ul>
<p><b>Exterior Building</b></p> <ul style="list-style-type: none"> <li>- Add accent color to trim areas of building.</li> <li>- Remove roofing material (costs provided in Asbestos Report)</li> <li>- Replace damaged sheeting.</li> <li>- Repair roof drains and down spouts.</li> <li>- Install torch down (or equal rating) with new flashing as necessary.</li> <li>- Repair existing stucco damage and touch up paint as necessary.</li> <li>- Repair and adjust front door framing and touch up with aluminum paint.</li> <li>- Replace venting to heater room door for additional air flow.</li> <li>- Replace exterior lighting</li> </ul>
<p><b>Interior Building-Entry Room (70sqft)</b></p> <ul style="list-style-type: none"> <li>- Install new stick down commercial flooring over existing.</li> <li>- Repair drywall and retexture.</li> <li>- Remove corrosive rust forming around door &amp; reseal substrate.</li> <li>- Repaint walls, ceiling and molding.</li> <li>- Tone, test all electrical and replace outlets and switches.</li> <li>- Replaces lighting ballasts and new bulbs.</li> </ul>
<p><b>Interior Building- Staff Restroom (80sqft.)</b></p> <ul style="list-style-type: none"> <li>- Replace exhaust fan.</li> <li>- Replace mirror.</li> <li>- Replace faucet.</li> <li>- Patch and repair walls.</li> <li>- Retexture and paint with semi-gloss product.</li> <li>- Rebuild flushing valves.</li> <li>- Replace new toilet paper holder, seat cover holder, paper towel dispenser, sanitary box, soap dispenser.</li> <li>- Replace switches, GFI's, fans, ceiling lighting, and sconce (vanity).</li> <li>- Cover vinyl with commercial grade.</li> </ul>

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- 3) ADA Compliance: Handicap accessibility and usage. (Ex: Restrooms, doorways, ramps leading to, railing devices, parking requirements, height requirements, handle requirements, etc.)

Fire safety (1) and Electrical (2) have been budgeted for in the remodel figures provided already. Please refer to Appendix D. We will only have to address ADA compliance and Code compliance. In order for this all three (3) (Women's, Men's and Staff Restrooms) will have to become single occupancy. This might affect your code compliancy. Depending on the use of this building, there might be more restrooms/occupancy than you have.

The following pages will identify in detail the options listed above:

# Construction Observation Report

## Introduction

### GENERAL INFORMATION

MTGL was retained by the Southern Economic Development Corporation (SEDC), to conduct an inspection of the referenced project located in an unoccupied commercial facility, limited to accessible areas located at 101 50<sup>th</sup> Street, San Diego, California for repairs or renovations that may deem necessary to prepare the building for future use. The subject site has been previously identified as the Valencia Library.

The subject site consists of following unoccupied location:

One story, wood framed facility with a brick/stucco exterior with a concrete foundation.

### AUTHORIZATION

Authorization to perform this inspection was given by Ms. Sherry Brooks in the form of a signed fully executed letter of agreement dated May 7, 2008. This report has been prepared for the exclusive use of the SEDC.

### PURPOSE

The purpose of this inspection was to provide cost evaluations based on job walk observations and client requests for the following:

- Option #1: Repairs necessary for either lease or sale based on existing damage visible and exploratory done.
- Option #2: Repairs and pricing needed to bring the building ADA Compliancy
- Option #3: Pricing to demolish the existing building leaving only the property for lease for sale. (Based on the city allowing complete demolition of the building.)

There are several ways for the city to enforce "current code laws". Mostly they're enforced by degree of construction value. Usually 50% of value will trigger the city to bring the building up to those current laws. An example would be changing the square footage of building or altering a substantial amount of structural portion of building. There are only a few codes that would probably be enforced during a permit process. Those codes are as followed:

- 1) Fire Safety: Provide a primary and secondary line of fire defense. (Ex: smoke detectors, fire extinguishers, local alarm system, monitored alarm system, sprinklers, egress plan or escape route, exit signs, etc)
- 2) Electrical: Safety devices for usage. (Ex: Ground fault outlets in wet areas, Arc fault outlets in sleeping areas, verified grounded system, door sensors, etc.)

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## **Construction Observation Report**

solution or HEPA vacuumed in the decontamination chamber prior to their transport to uncontaminated areas of the building. Disposal of Florescent Light Tubes and PCB Containing Ballast materials will be conducted in accordance with all federal, state and local regulations.

#### 14.0 CLEANING OF THE CONTAINMENT AREA

The contained area and decontamination room should be HEPA vacuumed and cleaned with a damp cloth and/or mop with detergent solution and be visibly clean prior to the removal of isolation barriers.

#### 15.0 FINAL INSPECTION

Prior to re-occupancy of the space, a visual inspection and or air sampling will be conducted by MTGL, Inc. or a designated representative 48 hours after the completion of the cleaning and/or the removal. Re-occupancy may occur when the space passes the inspection and air samples that result in air clean enough to breath without respiratory protection.

##### CONTRACTOR RELEASE CRITERIA

The Work Area is cleared when the Work Area is visually clean of Florescent Light Tubes and PCB Containing Ballast.

##### RE-SAMPLING

If, for any reason, the Final Clearance Samples do not meet the minimum clearance requirements, re-cleaning and re-sampling must be accomplished. The additional cost of re-sampling and re-analysis will be taken on by the Removal Contractor and the method of sampling and analysis will be the same as that used for the first set of samples.

Relative Pressure in Work Area: Continuously maintain the Work Area at an air pressure that is equal to or higher than that outdoors, or at any location in the immediate proximity outside of the building envelope.

Accomplish the pressure differential by exhausting a sufficient number of HEPA filtered fan units in the Work Area. The number of units required will depend on machine characteristics, the seal at barriers, and required air circulation.

#### AIR CIRCULATION IN THE WORK AREA

Air Circulation: For purposes of this section air circulation refers to either the introduction of outside air to the Work Area or the cleaning of air within the Work Area.

Determine Number of Units needed to achieve required air circulation according to the following procedure:

- A. Determine the volume in cubic feet of the work area by multiplying floor area by ceiling height. Determine total air circulation requirement in cubic feet per minute (CFM) for the work area by multiplying this volume by the air change rate and dividing by 60.

Air Circulation Required in Cubic Feet of Air per Minute (CFM) =

$$\frac{\text{Volume of work area (cu. ft.)} \times \text{Number of air changes per hour}}{60 \text{ (minutes per hour)}}$$

- B. Divide the air circulation requirement (CFM) above by capacity of HEPA filtered fan unit(s) used. Capacity of a unit for purposes of this section is the capacity in cubic feet per minute with fully loaded filters (pressure differential which causes loaded filter warning light to come on) in the machine's labeled operating characteristics.

$$\text{Number of Units Needed} = \frac{\text{Air circulation Requirement (CFM)}}{\text{Capacity of Unit with Loaded Filters (CFM)}}$$

#### EXHAUST SYSTEM

Air circulation in the Work Area is to be accomplished by an exhaust system as described below.

Exhaust all units from the Work Area to meet air circulation requirement of this section.

Location of HEPA Filtered Fan Units: Locate fan unit(s) so that the air in the work area primarily traverses through the Work Area as much as possible. This may be accomplished by positioning the HEPA filtered fan unit(s) in each corner of the facility with each unit facing the exhaust of the unit in front of it.

#### AIR CIRCULATION IN DECONTAMINATION UNITS

Air Circulation: Continuously maintain air circulation in Decontamination Units at same level as required for Work Area.

Air Movement: Arrange air circulation through the Personnel Decontamination Unit so that it produces a movement of air away from the work area.

12.0 Not Used

#### 13.0 REMOVAL OF CONTAINMENT MATERIALS

Containment materials that cannot be cleaned should be removed from the building in sealed plastic bags. The outside of the bags should be cleaned with a damp cloth and a detergent

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4. Dispose of wet filters from air purifying respirator.
  5. Carefully wash face piece of respirator inside and out.
  6. Shower completely with soap and water.
  7. Rinse thoroughly.
  8. Rinse shower room walls and floor prior to exit.
- F. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

In the change area, dry off the respirator. Remove the cartridges. Clean the surfaces of the cartridges with a disinfectant wipe and keep the cartridges for reuse. Soak and clean the respirator in a gallon of disinfectant (1/2 oz. A-33 quaternary ammonium disinfectant per gallon of water). Rinse the respirator in water, clean with a disinfectant wipe and dry with a clean towel.

#### Within Work Area

Require that workers NOT eat, drink, smoke, chew tobacco or gum, or apply cosmetics in the Work Area. To eat, chew, drink or smoke, workers shall follow the procedure described above, and then dress in street clothes before entering the non-Work Areas.

After an exhaust fan with a HEPA filter is used on a job site, the prefilter is to be covered with 4 - 6 mil poly and sealed with duct tape.

### 10.0 CONTAINMENT OF AFFECTED AREA

Completed isolation of work area from occupied spaces or outdoors using plastic (4-6 mil poly) sheeting sealed with duct tape (including ventilation ducts/grills, fixtures and other openings).

Use an exhaust fan with a HEPA filter to generate air circulation inside the work area scrubbing.

### 11.0 CONTROL OF EXPOSURE TO ADJACENT AREAS

#### POLYETHYLENE SHEET

Provide polyethylene film in the largest size possible to minimize seams, 4.0 or 6.0 mil thick as indicated, frosted or black as indicated.

#### DUCT TAPE

Provide duct tape in 2" or 3" widths as indicated, with an adhesive, which are formulated to stick aggressively to sheet polyethylene.

#### SPRAY CEMENT

Provide spray adhesive in aerosol cans, which is specifically formulated to stick tenaciously to sheet polyethylene.

#### DISPOSAL BAGS

Provide 6-mil thick leak-tight polyethylene bags for disposal of mold/fungi-contaminated waste material.

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## DECONTAMINATION PROCEDURES

Full decontamination including showers is required for these activities. Require all workers to adhere to the following personal decontamination procedures whenever they leave the work area:

- C. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.
- D. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator to avoid inhalation or ingestion of mold/fungi while showering. The following procedure is required as a minimum:
  - 1. Thoroughly wet body including hair and face. If using a Powered Air-Purifying Respirator (PAPR) hold blower unit above head to keep canisters dry.
  - 2. With respirator still in place thoroughly wash body, hair, respirator face piece, and all parts of the respirator except the blower unit and battery pack on a PAPR. Pay particular attention to seal between face and respirator and under straps.
  - 3. Take a deep breath, hold it and/or exhale slowly, completely wet hair, face, and respirator. While still holding breath, remove respirator and hold it away from face before starting to breathe.
  - 4. Carefully wash face piece of respirator inside and out.
  - 5. If using PAPR, shut down in the following sequence: first cap inlets to filter cartridges, and then turn off blower unit (this sequence will help keep debris which has collected on the inlet side of filter from dislodging and contaminating the outside of the unit). Thoroughly wash blower unit and hoses. Carefully wash battery pack with wet rag. Be extremely cautious of getting water in battery pack as this will short out and destroy battery.
  - 6. Shower completely with soap and water.
  - 7. Rinse thoroughly.
  - 8. Rinse shower room walls and floor prior to exit.
  - 9. Proceed from shower to Clean Room and change into street clothes or into new disposable work items.

When using Air Purifying-Negative Pressure Respirators: Require that all workers use the following decontamination procedure as a minimum requirement whenever leaving a contaminated Work Area with a half or full face cartridge type respirator:

- D. When exiting area, remove coveralls, disposable head covers, and disposable footwear covers or boots in the Equipment Room.
- E. Still wearing respirators, proceed to showers. Showering is mandatory. Care must be taken to follow reasonable procedures in removing the respirator and filters to avoid ingestion or inhalation contaminants while showering. The following procedure is required as a minimum:
  - 1. Thoroughly wet body from neck down.
  - 2. Wet hair as thoroughly as possible without wetting the respirator filter if using an air purifying type respirator.
  - 3. Take a deep breath, hold it and/or exhale slowly, complete wetting of hair, thoroughly wetting face, and respirator and filter (air purifying respirator). While still holding breath, remove respirator and hold it away from face before starting to breathe.

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- D. Separate this room from the exterior by a single flap door of 6-mil polyethylene sheeting.

#### Load-out Area

- D. The load-out area is the transfer area from the building to a truck or dumpster. It may be the Clean Room of the Equipment Decontamination unit or a separate room or loading dock area. Erect Critical and Primary barriers "Temporary Enclosures" in load-out area.
- E. During transfer of material from load-out area erect primary barriers "Temporary Enclosures" as necessary to seal path from load-out area to truck or dumpster.
- F. Provide a lockable door to secure the work area during non-work hours.

Decontamination Sequence: Take all equipment or material from the Work Area through the Equipment Decontamination Unit according to the following procedure:

- H. At wash down station, thoroughly wet clean contaminated equipment or sealed polyethylene bags and pass into Wash Room.
- I. When passing equipment or containers into the Wash Room, close all doorways of the Equipment Decontamination Unit, other than the doorway between the Wash down Station and the Wash Room. Keep all outside personnel clear of the Equipment Decontamination Unit.
- J. Once inside the washroom, wet clean the bags and/or equipment.
- K. When cleaning is complete, pass items into Holding Room. Close all doorways except the doorway between the Holding room and the Clean Room.
- L. Workers from the building exterior enter Holding Area and remove decontaminated equipment and/or containers for disposal.
- M. Require these workers to wear full protective clothing and appropriate respiratory protection.
- N. At no time is a worker from an uncontaminated area to enter the enclosure when a removal worker is inside.

#### CLEANING OF DECONTAMINATION UNITS

Clean debris and residue from inside of Decontamination Units on a daily basis or as otherwise indicated on Contract Drawings. Damp wipe or hose down all surfaces after each shift change. Clean debris from shower pans on a daily basis.

If the Clean Room of the Personnel Decontamination Unit becomes contaminated with mold/fungi-contaminated debris, abandon the entire Decontamination Unit and erect a new Decontamination Unit. Use the former Clean Room as an inner section of the new Equipment Room.

#### MAINTENANCE OF DECONTAMINATION UNITS

Inspect all seals and doorways prior to each work shift and as indicated by conditions throughout removal. Repair immediately if necessary. Clean and dry decontamination units at the end of each work shift.

Each time Work Area is entered remove all street clothes in the Clean Room of the Personnel Decontamination Unit and put on new disposable coverall, or reusable coverall (to be donned in Equipment Room), new head cover, and a clean respirator. Proceed through shower room to equipment room and put on work boots.

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### Exiting Work Area

- Before leaving the Work Area, require the worker to remove all gross contamination and debris from overalls and feet.
- The worker then proceeds to the Equipment Room and removes all clothing except respiratory protection equipment.
- Extra work clothing such as boots, hard hats, goggles, gloves are to be stored in contaminated end of the Equipment Room.
- Disposable coveralls are placed in a bag for disposal with other material.
- Require that Decontamination procedures found in this specification be followed by all individuals leaving the Work Area.
- After showering, the worker moves to the Clean Room and dresses in either new coveralls for another entry or street clothes if leaving.

### EQUIPMENT DECONTAMINATION UNIT

Provide an Equipment Decontamination Unit consisting of a serial arrangement of rooms, Clean Room, Holding Room, Wash Room for removal of equipment and material from Work Area. Do not allow personnel to enter or exit Work Area through Equipment Decontamination Unit.

Arrange as follows:

Wash Down Station: Provide an enclosed Shower Unit located in Work Area just outside Wash Room as an equipment, bag and container cleaning station.

Wash Room: Provide washroom for cleaning of bagged or containerized mold/fungi contaminated waste materials passed from the Work Area.

- D. Construct wash room of wood framing of appropriate sized lumber and polyethylene sheeting, at least 6 mil in thickness and located so that packaged materials, after being wiped clean, can be passed to the Holding Room.
- E. Separate this room from the Work Area by a single flapped door of 6-mil polyethylene sheeting.
- F. Provide a drop cloth layer of plastic on floor in the Wash Room for every load-out operation. Roll this drop cloth layer of plastic from Wash Room into Work Area after each load-out. Provide a minimum of two (2) layers of plastic at all times. Use only clear plastic to cover floors.

### Holding Room

- C. Provide Holding Room as a drop location for bagged mold/fungi contaminated materials passed from the Wash Room.
- D. Separate this room from the adjacent rooms by flapped doors fabricated from 1/16" +/- thick single ply elastomeric membrane material either EPDM or Neoprene or by 6-mil sheet plastic.

Clean Room: Provide Clean Room to isolate the Holding Room from the building exterior. If possible, locate to provide direct access to the Holding Room from the building exterior.

- C. Erect Critical and Primary Barriers "Temporary Enclosures" in an existing space. If no space exists, construct Clean Room of wood framing of appropriate size and polyethylene sheeting, at least 6-mil in thickness.

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- L. Construct room by providing a shower pan and two shower walls in a configuration that will cause water running down walls to drip into pan. Install a freely draining wooden floor in shower pan at elevation of top of pan.
- M. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- N. Separate this room from the Clean Room and Equipment Room with airtight walls fabricated of 6-mil polyethylene.
- O. Provide splash proof entrances.
- P. Provide showerhead and controls.
- Q. Provide temporary extensions of existing hot and cold water and drainage, as necessary for a complete and operable shower.
- R. Provide a soap dish and a continuously adequate supply of soap and maintain in sanitary condition. Provide liquid shampoo.
- S. Arrange so that water from showering does not splash into the Clean or Equipment Rooms.
- T. Arrange water shut off and drain pump operation controls so that a single individual can shower without assistance from either inside or outside of the Work Area.
- U. Pump wastewater to drain. Provide 20 micron and 5 micron wastewater filters in line to drain or waste water storage. Change filters daily or more often if necessary. Locate filters inside shower unit so that water lost during filter changes is caught by shower pan.
- V. Provide hose bib.

Equipment Room (contaminated area): Require work equipment, footwear and additional contaminated work clothing to be left here. This is a change and transit area for workers.

Separate this room from the Work Area by a 6-mil polyethylene flapped doorway.

Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.

Separate this room from the Shower Room and Work Area with airtight walls fabricated of 6-mil polyethylene.

Provide a container for collection of used protective clothing.

Work Area: Separate Work Area from the Equipment Room by polyethylene barriers. If the airborne mold/fungi spore level in the Work Area is expected to be high, as in dry removal, add an intermediate cleaning space between the Equipment Room and the Work Area. Damp wipe clean all surfaces after each shift change.

Decontamination Sequence: Require that all workers adhere to the following sequence when entering or leaving the Work Area.

Entering Work Area: Worker enters Clean Room and removes street clothing, puts on protective overalls and respirator, and passes through the Shower Room into the Equipment Room.

- Any additional clothing and equipment left in Equipment Room needed by the worker are put on in the Equipment Room.
- Worker proceeds to Work Area.

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or spaces, Clean Room, Shower Room, and Equipment Room. Require all persons without exception to pass through this Decontamination Unit for entry into and exiting from the Work Area for any purpose. Do not allow parallel routes for entry or exit. Do not remove equipment or materials through Personnel Decontamination Unit. Provide adequate temporary lighting and heat within Decontamination Units.

Clean Room (changing room): Provide a room that is physically and visually separated from the rest of the building for the purpose of changing into protective clothing.

- C. Construct using polyethylene sheeting, at least 6 mil in thickness, to provide an airtight seal between the Clean Room and the rest of the building.
- D. Locate so that access to Work Area from Clean Room is through Shower Room.

Separate Clean Room from the building by a sheet plastic flapped doorway.

- I. Require workers to remove all street clothes in this room, dress in protective coveralls, and don respiratory protection equipment. Do not allow mold/fungi-contaminated items to enter this room. Require Workers to enter this room either from outside the structure dressed in street clothes, or naked from the showers.
- J. An existing room may be utilized as the Clean Room if it is suitably located and of a configuration whereby workers may enter the Clean Room directly from the Shower Room. Protect all surfaces of room with sheet plastic as set forth in Section 01526 Temporary Enclosures. Authorization for this must be obtained from the Owner's Representative in writing prior to start of construction. Submit written request in accordance with Section 01632 "Product Substitutions" detailing layout and protective measures proposed.
- K. Maintain floor of changing room dry and clean at all times. Do not allow overflow water from shower to wet floor in changing room.
- L. Damp wipe all surfaces twice after each shift change with a disinfectant solution.
- M. Provide posted information for all emergency phone numbers and procedures.
- N. Provide a continuously adequate supply of disposable bath towels
- O. Provide one storage locker per employee. Equip room with benches and shelves and clean protective clothing, replacement filters for respirators, towels and other required protective equipment.
- P. Provide a lockable door, which may be secured during non-work hours.

Airlock: Provide an airlock between Shower Room and Clean Room. This is a transit area for workers.

- D. Separate this room from Shower Room and Clean Room by sheet plastic flapped doorways.
- E. Separate this room from the rest of the building with airtight walls fabricated of 6-mil polyethylene.
- F. Separate this room from the Shower Room and Clean Rooms with airtight walls fabricated of 6-mil polyethylene.

Shower Room: Provide a watertight operational shower to be used for transit by cleanly dressed workers heading for the Work Area from the Clean Room, or for showering by workers headed out of the Work Area after undressing in the Equipment Room.

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### SHOWER WALLS

Provide 8' long by approximately 7' high walls fabricated from rigid, impervious, waterproof material, either corrugated fiberglass roofing or equivalent. Structurally support as necessary for stability.

### SHOWER HEAD AND CONTROLS

Provide a factory-made showerhead producing a spray of water, which can be adjusted for spray size and intensity. Feed shower with water mixed from hot and cold supply lines. Arrange so that control of water temperature, flow rate, and shut off is from inside shower without outside aid.

### FILTERS

Provide cascaded filter units on drain lines from showers or any other water source carrying mold/fungi-contaminated water from the Work Area. Provide units with disposable filter elements as indicated below. Connect so that discharged water passes primary filter and output of primary filter passes through secondary filter.

Primary Filter - Passes particles 20 microns and smaller

Secondary Filter - Passes particles 5 microns and smaller

Provide spare filters for both personnel and equipment decontamination unit water filters.

### HOSE BIB

Provide heavy bronze angle type with wheel handle, vacuum breaker, and 3/4" National Standard male hose outlet.

### SHOWER STALL

For Wash Down Station provide leak tight shower enclosure with integrated drain pan fabricated from fiberglass or other durable waterproof material, approximately 3' x 3' square with minimum 6' high sides and back. Structurally support as necessary for stability. Equip with hose bib, as specified in this section, mounted at approximately 4'-0" above drain pan. Connect drain to a reservoir, pump water from reservoir through filters to a drain. Mount filters inside shower stall on back wall beneath hose bib.

### SUMP PUMP

Provide submersible waterproof sump pump with integral float switch. Provide unit sized to pump 2 times the flow capacity of all showers or hoses supplying water to the sump, through the filters specified herein when they are loaded to the extent that replacement is required. Provide unit capable of pumping debris, sand, plaster or other materials washed off during decontamination procedures without damage to mechanism of pump. Adjust float switch so that a minimum of 3" remains between top of liquid and top of sump pan.

### HOLDING TANK

Provide holding tank for wastewater to prevent water from backing up in shower or washroom.

### GROUND FAULT CIRCUIT INTERRUPTER

To be installed on all electrical equipment, including cords, used in the decontamination units.

## 9.0 CONSTRUCTING THE PERSONNEL DECONTAMINATION UNIT

Provide a Personnel Decontamination Unit consisting of a serial arrangement of connected rooms

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**APPENDIX B**

**SUBMITTED SCS ENGINEERS REPORT**



**Asbestos and Lead Paint Survey**

**Assessor's Parcel Number**

**548-150-07**

**101 50<sup>th</sup> Street**

**San Diego, California**

**Prepared by:**

**SCS Engineers**

**8799 Balboa Avenue**

**Suite 290**

**San Diego, California 92123**

**(858) 571-5500**

**October 19, 2007**

**Project Number 01207540.00**

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## SCS ENGINEERS

October 19, 2007

Project Number: 01207540.00

Copy No. \_\_\_\_\_

Ms. Sherry Brooks  
Southern Economic Development Corporation (SEDC)  
4393 Imperial Avenue, Suite 200  
San Diego, California 92113

**RE: Asbestos and Lead Paint Survey (Survey)**

**Site: Assessor's Parcel Number (APN) 548-150-07  
101 50<sup>th</sup> Street  
San Diego, California**

Dear Ms. Brooks:

SCS Engineers (SCS) is pleased to present this letter report (Report) of the Survey of the above-described Site. This Report summarizes the results of the Survey that was conducted to assess the presence of asbestos and lead paint in building materials and painted surfaces that may be affected by proposing demolition of the Site building. The work described in this Report was performed by SCS in general accordance with Exhibit 00 to the Letter Agreement (Contract) between SCS and Southeastern Economic Development Corporation (SEDC) (Client). Exhibit 00 and the Contract were fully executed on October 1, 2007.

### BACKGROUND

SCS understands the Site consists of 0.12 acre of land, in San Diego, California, which is owned by the City of San Diego. The Site consists of the Valencia Park Building, which encompasses approximately 3,976 square feet. The Site building was used as a library and is currently vacant.

The Environmental Protection Agency (EPA) National Emissions Standards for Hazardous Air Pollutants (NESHAP) require an inspection for asbestos to be performed on facilities that are to undergo demolition or renovation. Materials found to contain asbestos may need to be removed prior to demolition or renovation work. In addition, paint systems in poor condition (i.e., loose and flaking) known to contain lead may need to be abated/stabilized and disposed of prior to demolition.



## OBJECTIVES

Objectives of the scope of services were to:

- Assess the possible presence and type of asbestos-containing materials (ACMs) in concentrations greater than 1 percent (by weight) and asbestos-containing construction materials (ACCMs) in concentrations greater than 0.1 percent (by weight) in accessible Site building materials.
- Assess the possible presence of lead-based paint (LBP), defined as lead content equal to or greater than 5,000 milligrams per kilograms (mg/kg), in accessible "loose and flaking" painted surfaces of the Site building.

## SCOPE OF SERVICES

### *Asbestos and Lead-Based Paint Survey*

#### Introduction

A Survey was conducted to provide preliminary information on the presence of ACMs and ACCMs at the Site building. The scope of the Survey included a visual inspection of the Site building, evaluation of material friability and condition, and limited bulk sampling. The Survey was not intended to comply with the strict requirements of OSHA or the EPA.

A visual inspection of the Survey area was conducted to determine representative suspect materials and homogeneous areas which are visually similar in color, texture, general appearance, and which have been installed at the same time. Only materials which are accessible and/or exposed were inspected. The inspector listed materials found that are suspected of containing asbestos and gave a generic description of their location. The inspector also evaluated the overall condition of the materials and determined whether the materials were friable or non-friable by touching the material, where practicable.

An Asbestos Hazard Emergency Response Act (AHERA) Building Inspector supervised by a California Certified Asbestos Consultant (CAC), performed the Survey. The collected samples were analyzed using Polarized Light Microscopy (PLM) by a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory.

In accessible areas where painted surfaces were observed to be in poor condition (i.e., loose and flaking painted surfaces), paint chip samples were collected and analyzed for total lead in general accordance with EPA Method 7420. Please note that since

samples were only collected from areas where painted surfaces were observed to be in poor condition, this Survey does not assess lead content in painted surfaces which are in fair to good condition (i.e., adhered to the substrate).

Sampling and analysis of roofing materials could not be sampled without destructive sampling activities. Therefore, SCS recommends that immediately prior to and/or during demolition activities, roofing materials should be sampled and analyzed for asbestos content.

### Sampling of Suspect Building Materials

#### *Asbestos Survey*

A total of 49 bulk samples were collected for laboratory analysis. The following suspect building materials were sampled:

- White 12" x 12" vinyl composition tiles
- Yellow mastic beneath white 12" x 12" vinyl composition tiles
- Tan 12" x 12" vinyl composition tiles
- Yellow mastic beneath tan 12" x 12" vinyl composition tiles
- Brown baseboard mastic
- Yellow carpet mastic
- White finish coat
- Gray plaster
- White drywall
- White joint compound
- White 12" x 12" acoustical ceiling tiles

Chain-of-custody records and a sample location map describing sample locations are included in the Appendix of this Report.

#### *Lead Survey*

A total of 3 paint chip samples were collected from paint systems of the Site building. Please note that only those paint systems observed to be in poor condition (i.e., loose and flaking) were sampled.

**FINDINGS**

Asbestos Survey Analytical Results

Bulk samples collected from the Site building were delivered to Patriot Environmental Laboratory Services, Inc. for analysis of asbestos content. Bulk samples were analyzed using polarized light microscopy (PLM) and dispersion staining in accordance with the Environmental Protection Agency (EPA) Interim Method for the Determination of Asbestos in Bulk Samples (40 CFR 763, Subpart F, Appendix A). Analytical results are provided in the following table. Rows in bold describe materials in which asbestos was detected.

Sample Number	Material	Material Location / Sample Location	F/NF	Cond.	Qty.**	Asbestos Analytical Result***
<b>101 50<sup>th</sup> Street</b>						
1-1AB 1-2AB 1-3AB	A: White 12" x 12" vinyl composition tiles B: Yellow mastic	Entry, reception, and library areas / Northeast area of entry (1-1AB), southwest area of library (1-2AB), and southeast area of reception (1-3AB)	NF	Fair	NA	ND
2-1 AB 2-2 AB 2-3 AB	A: Tan 12" x 12" vinyl composition tiles B: Yellow mastic	Staff area / Southwest area of staff area (2-1AB), northwest area of staff area (2-2AB), and northeast area of staff area (2-3AB)	NF	Good	NA	ND
3-1 3-2 3-3	Brown baseboard mastic	Library / West area of library (3-1 through 3-3)	NF	Good	NA	ND
4-1 4-2 4-3	Yellow carpet mastic	Library and kitchen / West area of library (4-1), south area of kitchen (4-2), and southeast area of library (4-3)	NF	Good	NA	ND

Sample Number	Material	Material Location / Sample Location	F/NF	Cond.	Qty.**	Asbestos Analytical Result***
5-1ABCD 5-2ABCD 5-3ABCD 5-4ABCD 5-5ABCD 5-6ABCD 5-7ABCD	A: White texture B: Gray plaster C: White drywall D: White joint compound	Interior walls throughout the Site building / East wall of kitchen (5-1ABCD), south wall of entry (5-2ABCD), west wall of reception (5-3ABCD), west wall of staff area (5-4ABCD), west wall of library (5-5ABCD), east wall of library (5-6ABCD), north wall of library (5-7ABCD)	A: F* B: F* C: F* D: F*	Good	5,500 SF	3% Chrysotile joint compound and <1% Chrysotile composite
6-1 6-2 6-3	White 12" x 12" acoustical ceiling tiles	Ceiling throughout the Site building / Southeast area of staff area (6-1), southwest area of staff area (6-2), and north area of staff area (6-3)	F	Fair	NA	ND

**Notes:**

- F/NF: Friable/non-friable
- Cond.: Condition (good, fair, poor)
- Qty.: Quantity
- \*: Non-friable in current condition, but will be considered friable upon demolition.
- \*\* : Approximation only - not to be relied on for bidding purposes.
- \*\*\*: Asbestos content as determined by polarized light microscopy (PLM) with dispersion staining as recommended by the Environmental Protection Agency (EPA).
- NA: Not applicable, non-asbestos-containing material.
- SF: Square feet
- ND: None detected

The following condition types were used to assess the ACMs:

**Good:** No damage or deterioration, material is intact and shows little or no signs of damage or deterioration, and/or no debris was present.

**Fair:** Moderate damage or deterioration, material is breaking up into layers or beginning to come loose from the substrate; there are small areas where the material is deteriorating and/or minor debris may be present.

**Poor:** Severe damage or deterioration, the material is non-cohesive, pieces are dislodged and debris is evident, and/or non-friable material has become friable.

Lead Survey Analytical Results

Paint samples collected during the Survey were placed in plastic Ziploc bags, labeled, and transported under chain-of-custody to Patriot Environmental Laboratory Services, Inc. Paint samples were analyzed for lead in general accordance with EPA Method 7420 and digested in general accordance with EPA Method 3050B. Please note that only those paint systems that were observed to be in poor condition (i.e., loose and flaking) at the time of the Survey were sampled. Analytical results are provided in the following table.

Sample Number	Material Location / Sample Location	Color	Material Condition	Lead Content (mg/kg)
101 50 <sup>th</sup> Street				
L-1	Interior walls (finish coat substrate) / North interior wall	White	Poor	< 100
L-2	Exterior door (wood substrate) / West building door	gray	Poor	2,100
L-3	Exterior wall (concrete) / West exterior wall	White	Poor	2,310

Notes:  
 mg/kg: Milligrams/kilogram  
 ND: None detected above the laboratory detection limit

Estimated ACM and/or ACCM Removal Costs

Cost estimates for removal of identified ACMs and/or ACCM are provided in the table below. Please note that figures presented below are cost estimates for removal and that they may vary according to bids received from abatement contractors, depending on their qualifications, experience, and level of work load. Therefore, these costs should only be used as a rough guide until actual costs can be obtained. Moreover, these costs assume that all ACMs and/or ACCM will be abated simultaneously or consecutively (i.e., requiring only one mobilization). Separate or non-consecutive removal of ACMs and/or ACCM from the structures may increase unit removal costs. Furthermore, abatement contractor minimum mobilization cost may exceed the total cost estimate below. In addition, the cost estimates provided below do not include prevailing wages.

Material	Location	Total Estimated Quantity Observed*	Unit Cost	Cost Estimate for Removal
<b>101 50<sup>th</sup> Street</b>				
Walls	Interior walls throughout the Site building	5,500 SF	\$2.50/SF	\$13,750
Total Cost Estimate				\$13,750*

Notes:

SF: Square feet

\*: Approximation only - not to be relied on for bidding purposes.

**GENERAL SUMMARY**

**Asbestos Survey**

The purpose of this Survey was to assess the possible presence and type of ACMs and/or ACCM in readily accessible building materials at the Site building. The EPA National Emissions Standards for Hazardous Air Pollutants (NESHAP) requires an inspection for asbestos to be performed on facilities that are to undergo demolition or renovation work. If materials found are to contain asbestos, they may need to be removed prior to the start of demolition or renovation work.

By federal definition, any substance that contains more than one percent (1%) asbestos is classified as an ACM. California Code of Regulations 1529 defines asbestos-containing construction materials (ACCMs) as materials containing greater than or equal to one-tenth of one percent (0.1%).

**Lead Survey**

The purpose of this Survey was to identify which contain lead and are in poor condition (i.e., loose and flaking) paint (LBP) systems on structural building components. Housing and Urban Development (HUD) defines paint as lead-positive if: 1) X-ray fluorescence (XRF) measurements are greater than or equal to 1.0 milligram per centimeter squared (mg/cm<sup>2</sup>) laboratory results for paint samples are greater than or equal to 5,000 parts per million (ppm) or 0.5 percent by dry weight.

California Occupational Health and Safety Act (Cal-OSHA) guidelines (CCR Title 8 Section 1532.1) are applicable to occupational exposures of lead-containing paints during renovation/demolition activities. Cal-OSHA guidelines (CCR Title 8 Section 1532.1 [d] [4] [C]) indicate the following: "Objective data for an initial assessment



that demonstrate surface coating or material that contain lead at concentrations equal to or exceeding 0.06 percent lead dry weight (600 parts per million) demonstrate the presence of lead surface coating or material that constitute a health hazard to employees engaged in lead-related construction work."

**CONCLUSIONS**

**Asbestos Survey**

The following is a summary of asbestos-containing materials (ACMs and/or ACCM) identified at the Site mobile homes:

Sample Number	Material	Location	F/NF	Con d.	Qty.*	Asbestos Analytical Result**
<b>101 50<sup>th</sup> Street</b>						
5-1ABCD 5-2ABCD 5-3ABCD 5-4ABCD 5-5ABCD 5-6ABCD 5-7ABCD	A: White finish coat B: Gray plaster C: White drywall D: White joint compound	Interior walls	NF***	Fair	5,500 SF	3% Chrysotile joint compound and <1% Chrysotile composite

**Notes:**

- F/NF: Friable/non-friable
- Cond.: Condition (good, fair, poor)
- Qty.: Total estimated quantity observed. Not to be relied upon for abatement bidding purposes.
- \*: Approximation only - not to be relied on for bidding purposes.
- \*\* : Asbestos content as determined by polarized light microscopy (PLM) with dispersion staining as recommended by the Environmental Protection Agency (EPA).
- \*\*\*: Non-friable in current condition, but will be considered friable upon demolition.
- SF: Square feet

Note that additional ACMs may be present within wall or attic spaces, plenums, mechanical systems, etc., that were not accessible during this Survey or that could not be sampled without destructive sampling activities. Immediately prior to and/or during demolition activities, any suspect building materials that were not characterized during this inspection should be sampled and analyzed for asbestos content. These materials may include, but are not limited to, thermal systems insulation, insulation in walls, fire proofing, fire door insulation (unless fire doors are presumed to contain asbestos and handled as such), roofs, and others.

### *Lead Survey*

Based on this Survey, lead-based paint (LBP), as defined by Housing and Urban Development (HUD) (greater than or equal to 5,000 parts per million [ppm]) was not detected in the painted systems sampled at the Site building. However, lead (greater than or equal to 600 ppm) was detected in paint systems sampled at the Site building. Please note that only paint systems that were observed to be in poor condition (i.e., loose and flaking) were sampled. There may be LBP systems at the Site that were not sampled as part of this Survey.

### **RECOMMENDATIONS**

The following recommendations are based on our experience, laboratory results, and the assumption that the Site building has been scheduled for demolition:


- Prior to being disturbed as a result of renovation activities, asbestos-containing materials (ACMs and or ACCM) identified at Site building must be removed by a properly licensed abatement contractor.
- ACM and/or ACCM removal operations must be performed by properly licensed abatement contractors. ACMs and/or ACCM must be disposed of at an approved landfill.
- Asbestos abatement should be monitored by an independent third party. Third party monitoring is recommended to ensure documentation of the abatement activities and to limit the owner's liabilities. Monitoring should include development of project specifications, visual inspections during and after the project, and air monitoring prior to, during, and at the completion of the project to verify that the area is safe for re-occupancy or demolition. Air monitoring will determine if air/fiber concentration levels are within acceptable levels.
- Based on our review and interpretation of relevant Cal-OSHA guidelines, coating or materials containing lead at concentrations equal to or exceeding 0.06 percent by weight or 600 ppm are to be considered a potential health hazard for employees engaged in lead-related construction work. Therefore, we recommend that painted systems in poor condition (i.e., loose and flaking) with lead content greater or equal to 600 ppm be removed prior to demolition. If any lead is present in Site buildings painted systems, regardless of its concentration, the building demolition contractor must comply with OSHA regulations (Title 8, Section 1532.1) related to the demolition or salvage of structures where lead or materials containing lead are present.

Southern Economic Development Corporation  
Project Number: 01207540.00  
October 19, 2007

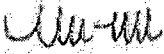
Asbestos and Lead Survey  
Page 10 of 11  
*SCS Engineers*

Should you have any questions regarding this Report, please do not hesitate to call the undersigned at (858) 571-5500.

Respectfully,  
SCS ENGINEERS



Cristobal Ramirez  
Building Inspector #BI14883  
Staff Professional



Ryan T. Marcos  
Certified Asbestos Consultant #90-2759  
Project Manager

Enclosures

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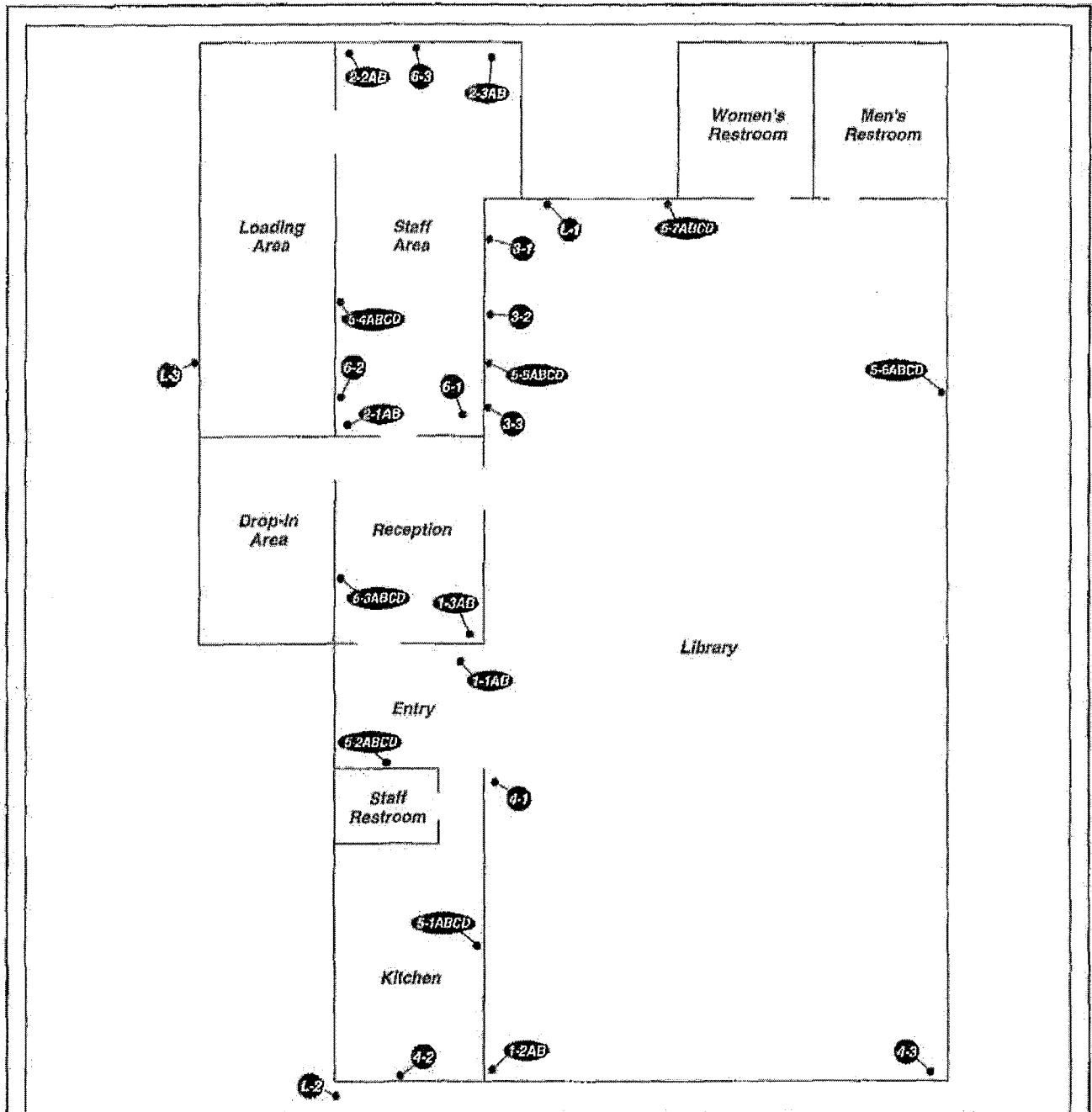
## REPORT USAGE AND FUTURE SITE CONDITIONS

This Report is intended for the sole usage of the Client and the parties designated by SCS. Use of this Report is subject to the provisions of the fully executed Contract between the Client and SCS. Any third party usage of this Report shall be subject to the provisions of the Contract and any unauthorized misuse of or reliance upon the Report shall be without risk or liability to SCS.

The conclusions of this Report are judged to be relevant at the time the work described in this Report was conducted.

Please note that this Report is predicated on a sampling program that included lead paint measurements and asbestos samples from a selected number of rooms and building materials (Samples). While Samples are intended to assess the possible presence of lead paint and asbestos in all rooms and building materials, they may not do so due to limited access, heterogeneity of building materials, remodeling, and rehabilitation/renovation of Site mobile homes. In addition, materials may have been inaccessible for sampling (e.g., materials hidden/enclosed behind walls or ceilings or samples that were not accessible without the destruction of building materials, among other reasons). Therefore, the Client should recognize that SCS is only estimating the levels of lead paint and asbestos in building materials based on the results of Samples and that lead paint or asbestos may not be identified in all building materials or rooms. The alternative approach would be the invasive and destructive collection of material samples and lead paint readings from all room and building materials, which most of our clients have found to be cost prohibitive and impractical. Should you be interested in this approach, we can provide you with a cost estimates for a more detailed or invasive sampling program.

# Sample Location Map



**EXPLANATION**

- Non asbestos-containing sample location
- Non lead-containing sample location
- Asbestos-containing sample location
- Lead-containing sample location



Disclaimer: This figure is based on available data. Actual conditions may differ. All locations and dimensions are approximate.

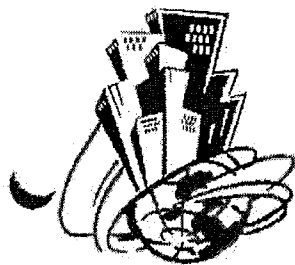
**SCS ENGINEERS**  
 Environmental Consultants  
 8799 Balboa Avenue, Suite 290  
 San Diego, California 92123

**ASBESTOS SAMPLE LOCATION MAP**  
 Southeastern Economic Development Corporation  
 101 50th Street  
 San Diego, California

Project No.:  
 01207540.00  
**Figure 1**  
 Date Drafted:  
 9/29/07

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# **LABORATORY RESULTS AND CHAIN-OF-CUSTODY DOCUMENTATION**



# PATRIOT ENVIRONMENTAL LABORATORY SERVICES, INC.

## Polarized Light Microscopy Analysis

SCS Engineers  
Attn - Ryan Marcos  
8799 Balboa Ave St 290  
San Diego CA 92123

Report Number: 308352  
Project Number: 01207540.00  
Project Name: Library  
Project Location: 101 50th St

Date Received: 9/28/2007  
Date Analyzed: 10/3/2007  
Date Reported: 10/3/2007

Claim Number: NA  
Number of Samples: 49  
PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-001 1-1A	NE Entry	12x12 Vinyl Comp Tiles	White	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-002 1-1B	NE Entry	Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-003 1-2A	SW Library	12x12 Vinyl Comp Tiles	White	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-004 1-2B	SW Library	Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-005 1-3A	SE Reception	12x12 Vinyl Comp Tiles	White	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			



## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-006 1-3B	SE Reception	Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-007 2-1A	SW Staff Area	12x12 Vinyl Comp Tiles	Tan	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-008 2-1B	SW Staff Area	Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-009 2-2A	NW Staff Area	12x12 Vinyl Comp Tiles	Tan	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-010 2-2B	NW Staff Area	Mastic	Yellow	100 % Binder
<b>Total Asbestos</b>	<b>None Detected</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Atm - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-011 2-3A	NE Staff Area	12x12 Vinyl Comp Tiles	Tan	80% Carbonate 20% Vinyl Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-012 2-3B	NE Staff Area	Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-013 3-1	W Area Library	Baseboard Mastic	Brown	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-014 3-2	W Area Library	Baseboard Mastic	Brown	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-015 3-3	W Area Library	Baseboard Mastic	Brown	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Artn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-016 4-1	W Library	Carpet Mastic	Yellow	100% Binder
<b>Total Asbestos:</b>	<b>None Detected</b>			
308352-017 4-2	S Kitchen	Carpet Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-018 4-3	SE Library	Carpet Mastic	Yellow	100% Binder
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-019 5-1A	E Wall Kitchen	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-020 5-1B	E Wall Kitchen	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-021 5-1C	E Wall Kitchen	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-022 5-ID	E Wall Kitchen	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-023 5-2A	S Wall Entrance	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-024 5-2B	S Wall Entrance	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-025 5-2C	S Wall Entrance	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			
308352-026 5-2D	S Wall Entrance	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-027 5-3A	W Wall Reception	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn: Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-028 5-3B	W Wall Reception	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-029 5-3C	W Wall Reception	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			
308352-030 5-3D	W Wall Reception	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-031 5-4A	W Wall Staff	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-032 5-4B	W Wall Staff	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-033 5-4C	W Wall Staff	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-034 5-4D	W Wall Staff	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-035 5-5A	W Wall Library	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-036 5-5B	W Wall Library	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-037 5-5C	W Wall Library	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			
308352-038 5-5D	W Wall Library	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-039 5-6A	E Wall Library	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207340.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-040 5-6B	E Wall Library	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-041 5-6C	E Wall Library	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			
308352-042 5-6D	E Wall Library	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-043 5-7A	N Wall Library	Finish Coat	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-044 5-7B	N Wall Library	Plaster	Grey	67% Minerals 33% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-045 5-7C	N Wall Library	Drywall		
<b>Total Asbestos</b>	<b>No Drywall</b>			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
308352-046 5-7D	N Wall Library	Joint Compound		
<b>Total Asbestos</b>	<b>No Joint Cmpd</b>			
308352-047 6-1	SE Staff Room	12x12 Acoustical Ceiling Tiles	White Brown	95% Cellulose 5% Paint
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-048 6-2	SW Staff Room	12x12 Acoustical Ceiling Tiles	White Brown	95% Cellulose 5% Paint
<b>Total Asbestos</b>	<b>None Detected</b>			
308352-049 6-3	N Staff Room	12x12 Acoustical Ceiling Tiles	White Brown	95% Cellulose 5% Paint
<b>Total Asbestos</b>	<b>None Detected</b>			



## Polarized Light Microscopy Analysis

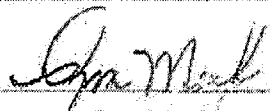
SCS Engineers  
 Attn: Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 308352  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th St

Date Received: 9/28/2007  
 Date Analyzed: 10/3/2007  
 Date Reported: 10/3/2007

Claim Number: NA  
 Number of Samples: 49  
 PO Number: NA

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
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Rosa Mendóza  
 Analyst

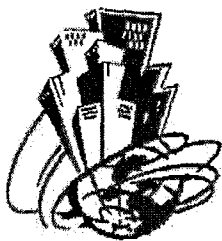


Cristina E. Tabatt  
 Approved Signatory

Bulk samples analyzed per 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 and for friable materials, EPA-600/M4-82-020. Samples are analyzed by calibrated visual estimation; therefore, results may not be reliable for samples of low concentration levels. This report applies only to the items tested. The results are representative of the samples submitted and may not represent the entire material from which samples were collected. This report was issued by a NIST/NVLAP (Lab Code 200358-0) accredited laboratory and may not be reproduced without the expressed written consent of Patriot Environmental. This report must not be used to claim product certification, approval or endorsement by NIST, NVLAP or any agency of the federal government.

Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite. Samples such as floor tiles and ceiling tiles with mastic layers are analyzed and reported separately.

308352-021	No Drywall
308352-021	No Joint Compound
308352-025	No Drywall
308352-026	No Joint Compound
308352-029	No Drywall
308352-030	No Joint Compound
308352-033	No Drywall
308352-034	No Joint Compound
308352-037	No Drywall
308352-038	No Joint Compound
308352-041	No Drywall
308352-042	No Joint Compound
308352-045	No Drywall
308352-046	No Joint Compound



# PATRIOT ENVIRONMENTAL LABORATORY SERVICES, INC.

## Polarized Light Microscopy Analysis

SCS Engineers  
Attn - Ryan Marcos  
8799 Balboa Ave St 290  
San Diego CA 92123

Report Number: 309271  
Project Number: 01207540.00  
Project Name: Library  
Project Location: 101 50th Street

Date Received: 10/10/2007  
Date Analyzed: 10/12/2007  
Date Reported: 10/13/2007

Claim Number:  
Number of Samples: 14  
PO Number:

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
309271-001 5-1 C	E Wall Kitchen	Drywall	Brown	85% Sulfate 15% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-002 5-1 D	B Wall Kitchen	Joint Compound	White	97% Carbonate
Chrysotile	3 %			
<b>Total Asbestos</b>	<b>3 %</b>			
309271-003 5-2 C	S Wall Entrance	Drywall	Brown	85% Sulfate 15% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-004 5-2 D	S Wall Entrance	Joint Compound	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-005 5-3 C	W Wall Reception	Drywall	Brown	85% Sulfate 15% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			

Page 1 of 4

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## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 309271  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th Street

Date Received: 10/10/2007  
 Date Analyzed: 10/12/2007  
 Date Reported: 10/13/2007

Claim Number:  
 Number of Samples: 14  
 PO Number:

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
309271-006 5-3 D	W Wall Reception	Joint Compound	White	100% Carbonate
Chrysotile	<1 %			
Total Asbestos	< 1%			
309271-007 5-4 C	W Wall Staff	Drywall	Brown	85% Sulfate 15% Cellulose
Total Asbestos	None Detected			
309271-008 5-4 D	W Wall Staff	Joint Compound	White	100% Carbonate
Total Asbestos	None Detected			
309271-009 5-5 C	W Wall Library	Drywall	Brown	85% Sulfate 15% Cellulose
Total Asbestos	None Detected			
309271-010 5-5 D	W Wall Library	Joint Compound	White	100% Carbonate
Total Asbestos	None Detected			

## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 309271  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 50th Street

Date Received: 10/10/2007  
 Date Analyzed: 10/12/2007  
 Date Reported: 10/13/2007

Claim Number:  
 Number of Samples: 14  
 PO Number:

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
309271-011 5-6 C	E Wall Library	Drywall	Brown	85% Sulfate 15% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-012 5-6 D	E Wall Library	Joint Compound	White	100% Carbonate
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-013 5-7 C	N Wall Library	Drywall	Brown	85% Sulfate 15% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309271-014 5-7 D	N Wall Library	Joint Compound	White	95% Carbonate 5% Paint
Chrysotile	<1 %			
<b>Total Asbestos</b>	<b>&lt; 1%</b>			



PATRIOT ENVIRONMENTAL LABORATORIES, INC.

CHAIN-OF-CUSTODY

(Lab) Report Number: 208352

Client: <u>SCS Engineers</u>	Project ID: <u>C1207540.00</u>	Analysis Requested	Turnaround Time
Bill To: <u>SCS Engineers</u>	Project Name: <u>Library</u>	PCM (Fiber Count) <input type="checkbox"/>	RUSH <input type="checkbox"/>
Address: <u>8799 Balboa Ave. #200</u> <u>San Diego, CA 92123</u>	Location: <u>101 50<sup>th</sup> St.</u>	PLM (Bulk Asbestos) <input checked="" type="checkbox"/>	(SAME DAY excluding STLC, TCLP)
Phone: <u>(858) 571-5500</u>	Date Collected: <u>9/21/2007</u>	LEAD (Paint, Air, Wipe, Water) <input type="checkbox"/>	24 HR <input type="checkbox"/>
Cell: _____	Preservative: <u>NA</u>	WASTE PROFILE <input type="checkbox"/>	48 HR <input type="checkbox"/>
Fax: _____	SPECIAL INSTRUCTIONS:	1-TTLC <input type="checkbox"/>	72 HR <input checked="" type="checkbox"/>
Claim #: _____	_____	2-STLC/CAL WET <input type="checkbox"/>	OTHER <input type="checkbox"/>
P.O.# _____	_____	3-TCLP <input type="checkbox"/>	(Specify) _____
Authorized By: <u>Ryan Marcos</u>	_____	MOLD <input type="checkbox"/>	_____
	_____	Preliminary Inv. <input type="checkbox"/>	_____
	_____	Post Remedial <input type="checkbox"/>	_____

Sample ID	Lab ID	Sample Location	Sample Description (s) (*sample type, dimensions, etc)	Start Time	Stop Time	Flow Rate (LPM)	Total Min.	Volume (L)
1-1AB		NE Entry	A = White speckled					
1-2AB		SW Library	12x12 Vinyl Comp. tiles					
1-3AB		SE Reception	B = Yellow mastic					
2-1AB		SW Staff area	A = Tan streaked					
2-2AB		NW Staff area	12x12 Vinyl Comp. tiles					
2-3AB		NE Staff area	B = yellow mastic					
3-1		W area library	Yellow baseboard					
3-2		I	mastic					
3-3		I	I					
4-1		W library	Yellow carpet					
4-2		S kitchen	mastic					
4-3		SE library	I					

\* Sample Type: A - Air Bu - Bulk Ba - Bacteria P - Paint S - Soil/Solid SW - Swab TL - Tape Lift W - Wipe Wa - Water WC - Wall Check O - Other

Relinquished By:	(Printed) <u>Cristobal Ramirez</u>	(Signature) <u>[Signature]</u>	Date/Time <u>9/27/07</u>
Received By:	(Printed) <u>[Signature]</u>	(Signature) <u>[Signature]</u>	Date/Time <u>10-20-07</u>
Relinquished By:	(Printed) _____	(Signature) _____	Date/Time _____
Received By:	(Printed) _____	(Signature) _____	Date/Time _____



PATRIOT ENVIRONMENTAL LABORATORIES, INC.

CHAIN-OF-CUSTODY

(Lab) Report Number: 208352

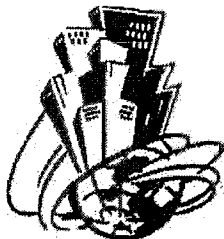
Client: <u>SCS Engineers</u>	Project ID: <u>01207540 00</u>	Analysis Requested	Turnaround Time
Bill To: <u>Same</u>	Project Name: <u>Library</u>	PCM (Fiber Count) <input type="checkbox"/>	RUSH <input type="checkbox"/>
Address: <u>8799 Balboa Ave # 290</u> <u>San Diego CA</u>	Location: <u>101 50th St.</u>	PLM (Bulk Asbestos) <input checked="" type="checkbox"/>	(SAME DAY excluding STLC, TCLP)
Phone: <u>(858) 571 5500</u>	Date Collected: <u>9/21/07</u>	LEAD (Paint, Air, Wipe, Water) <input type="checkbox"/>	24 HR <input type="checkbox"/>
Cell: _____	Preservative: _____	WASTE PROFILE <input type="checkbox"/>	48 HR <input type="checkbox"/>
Fax: _____	SPECIAL INSTRUCTIONS:	1-TTLC <input type="checkbox"/>	72 HR <input checked="" type="checkbox"/>
Claim #: _____	_____	2-STLC/CAL WET <input type="checkbox"/>	OTHER <input type="checkbox"/>
P.O.# _____	_____	3-TCLP <input type="checkbox"/>	(Specify) _____
Authorized By: <u>Ryan Marcos</u>	_____	MOLD <input type="checkbox"/>	_____
	_____	Preliminary Inv. <input type="checkbox"/>	_____
	_____	Post Remedial <input type="checkbox"/>	_____

Sample ID	Lab ID	Sample Location	Sample Description (s) (* sample type, dimensions, etc)	Start Time	Stop Time	Flow Rate (LPM)	Total Min.	Volume (L)
5-1 ABCD		E wall kitchen	A= white finish coat					
5-2 ABCD		S wall entrance	B= Plaster (Gray)					
5-3 ABCD		W wall reception	C= Dry wall (white)					
5-4 ABCD		W wall staff	D= white joint compound					
5-5 ABCD		W wall library	I					
5-6 ABCD		E wall library						
5-7 ABCD		N wall library						
6-1		SE staff room	White 12x12					
6-2		SW staff room	acoustical ceiling					
6-3		N staff room	files					
/								

\* Sample Type: A - Air Bu - Bulk Ba - Bacteria P - Paint S - Soil/Solid SW - Swab TL - Tape Lift W - Wipe Wa - Water WC - Wall Check O - Other

Relinquished By:	(Printed) _____	(Signature) _____	Date/Time _____
Received By:	(Printed) <u>[Signature]</u>	(Signature) <u>[Signature]</u>	Date/Time <u>10:20A 9-20-07</u>
Relinquished By:	(Printed) _____	(Signature) _____	Date/Time _____
Received By:	(Printed) _____	(Signature) _____	Date/Time _____

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# PATRIOT ENVIRONMENTAL LABORATORY SERVICES, INC.

## Polarized Light Microscopy Analysis

SCS Engineers  
Attn - Ryan Marcos  
8799 Balboa Ave St 290  
San Diego CA 92123

Report Number: 309521  
Project Number: 01207540.00  
Project Name: Library  
Project Location: 101 5th Street

Date Received: 10/15/2007  
Date Analyzed: 10/15/2007  
Date Reported: 10/15/2007

Claim Number:  
Number of Samples: 7  
PO Number:

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
309521-001 5- 1ABCD	E Wall Kitchen	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
Chrysotile	<1 %			
Total Asbestos	<1%			
309521-002 5- 2ABCD	S Wall Kitchen	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
Total Asbestos	None Detected			
309521-003 5- 3ABCD	W Wall Reception	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
Chrysotile	<1 %			
Total Asbestos	<1%			
309521-004 5- 4ABCD	W Wall Staff	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
Total Asbestos	None Detected			

Page 1 of 3

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## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 309521  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 5th Street

Date Received: 10/15/2007  
 Date Analyzed: 10/15/2007  
 Date Reported: 10/15/2007

Claim Number:  
 Number of Samples: 7  
 PO Number:

Lab/Client ID/Layer	Location	Material Description	Color	Composition (%)
309521-005 5- 5ABCD	W Wall Library	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309521-006 5- 6ABCD	E Wall Library	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
<b>Total Asbestos</b>	<b>None Detected</b>			
309521-007 5- 7ABCD	N Wall Library	Wall Composite	White Brown	45% Minerals 37% Sulfate 15% Carbonate 3% Cellulose
Chrysotile	<1 %			
<b>Total Asbestos</b>	<b>&lt; 1%</b>			



## Polarized Light Microscopy Analysis

SCS Engineers  
 Attn - Ryan Marcos  
 8799 Balboa Ave St 290  
 San Diego CA 92123

Report Number: 309521  
 Project Number: 01207540.00  
 Project Name: Library  
 Project Location: 101 5th Street

Date Received: 10/15/2007  
 Date Analyzed: 10/15/2007  
 Date Reported: 10/15/2007

Claim Number:  
 Number of Samples: 7  
 PO Number:

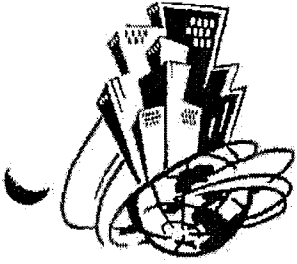
Lab/Client ID/layer	Location	Material Description	Color	Composition (%)
<i>Rosa Mendez</i>				<i>Jan Reyes</i>

Rosa Mendez  
 Analyst

Jan Reyes  
 Approved Signatory

Bulk samples analyzed per 40 CFR 763, Subpart F, Appendix A; EPA-600/R-93/116 and for friable materials, EPA-600/M4-82-020. Samples are analyzed by calibrated visual estimation; therefore, results may not be reliable for samples of low concentration levels. This report applies only to the items tested. The results are representative of the samples submitted and may not represent the entire material from which samples were collected. This report was issued by a NIST/NVLAP (Lab Code 200358-0) accredited laboratory and may not be reproduced without the expressed written consent of Patriot Environmental. This report must not be used to claim product certification, approval or endorsement by NIST, NVLAP or any agency of the federal government.

Samples of wall systems containing discrete and separable layers are analyzed separately and reported as composite. Samples such as floor tiles and ceiling tiles with mastic layers are analyzed and reported separately.



# PATRIOT ENVIRONMENTAL LABORATORY SERVICES, INC.

## Lead Analysis Results Paint EPA Method 3050B/7000A

SCS Engineers  
Attn - Ryan Marcos  
8799 Balboa Ave St 290  
San Diego CA 92123

Report Number: 308343  
Project Number: 01207540.00  
Project Name: Library  
Project Location: 101 50th Street

Date Received: 9/28/2007  
Date Analyzed: 10/1/2007  
Date Reported: 10/1/2007

Claim Number:  
PO Number:  
Number of Samples: 3  
Date Collected: 9/21/2007

Lab/Client ID	Location	Material Description	Result (mg/kg)
308343-001 L-1	Int N Wall of Library	White Interior Walls	< 100
308343-002 L-2	W Bldg Door	Gray Ext Wood Door Paint	2100
308343-003 L-3	W Wall	White Ext Concrete Walls Paint	2310

David Espique  
Analyst

Cristina E. Tabatt  
Approved Signatory

Reporting Limit is 0.010% or 100 mg/kg.



# PATRIOT ENVIRONMENTAL LABORATORIES, INC.

## CHAIN-OF-CUSTODY

(Lab) Report Number: 308343

Client: <u>SLC Engineers</u> Bill To: <u>Same</u> Address: <u>8799 Bellera Ave #27</u> <u>San Diego, CA</u> Phone: <u>(858) 571 5500</u> Cell: _____ Fax: _____ Claim #: _____ P.O.#: _____ Authorized By: <u>Ryan Moran</u>	Project ID: <u>0120754000</u> Project Name: <u>Library</u> Location: <u>101 50th Street</u> Date Collected: <u>9/27/07</u> Preservative: <u>N/A</u> <b>SPECIAL INSTRUCTIONS:</b> _____ _____ _____	<b>Analysis Requested</b> PCM (Fiber Count) <input type="checkbox"/> PLM (Bulk Asbestos) <input type="checkbox"/> LEAD (Paint, Air, Wipe, Water) <input checked="" type="checkbox"/> WASTE PROFILE <input type="checkbox"/> 1-TTLC <input type="checkbox"/> 2-STLC/CAL WET <input type="checkbox"/> 3-TCLP <input type="checkbox"/> MOLD <input type="checkbox"/> Preliminary Inv. <input type="checkbox"/> Post Remedial <input type="checkbox"/>	<b>Turnaround Time</b> RUSH <input type="checkbox"/> (SAME DAY excluding STLC TCLP) 24 HR <input type="checkbox"/> 48 HR <input type="checkbox"/> 72 HR <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> (Specify) _____
---	--	--	---

Sample ID	Lab ID	Sample Location	Sample Description (s) <small>(* sample type, dimensions, etc)</small>	Start Time	Stop Time	Flow Rate (LPM)	Total Min.	Volume (L)
L-1		<del>N Wall of library</del>	white interior walls paint					
L-2		W Bldg Door	Gray Lat wood door paint					
L-3		W wall	white L.F. concrete walls paint					
<div style="position: absolute; top: 50%; left: 50%; transform: translate(-50%, -50%); opacity: 0.5; font-size: 4em;">/</div>								

\* Sample Type: A - Air Bu - Bulk Ba - Bacteria P - Paint S - Soil/Solid SW - Swab TL - Tape Lift W - Wipe Ww - Water WC - Wall Check O - Other

Relinquished By:	(Printed) <u>Crystobal A. Ramirez</u>	(Signature) <u>[Signature]</u>	Date/Time <u>9/27/07</u>
Received By:	(Printed) <u>[Signature]</u>	(Signature) <u>[Signature]</u>	Date/Time <u>9/28/07</u>
Relinquished By:	(Printed) _____	(Signature) _____	Date/Time _____
Received By:	(Printed) _____	(Signature) _____	Date/Time _____

7271 Garden Grove Blvd., Suite A • Garden Grove, CA 92841 • Tel: 714/899-8900 • Fax: 714/899-7098

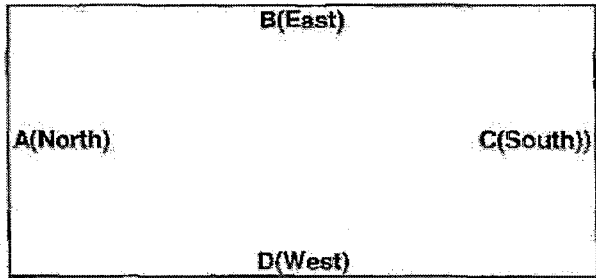
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**APPENDIX C**

**SAMPLE LOCATIONS AND XRF RESULTS**

**MTGL, INC. XRF Lead-Based Paint Sampling Log**

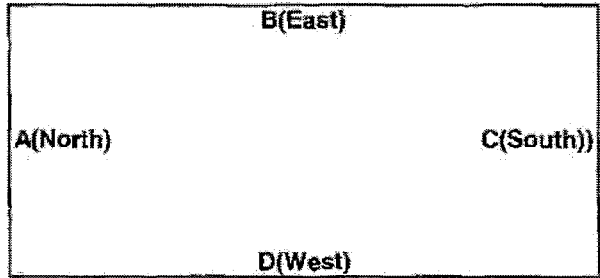
**Client:** Southern Economic Development Corp.  
**Project:** 101 50th Street  
**Location:** San Diego, CA  
**Date:** June, 2008



Sample #	Side	Sample Location	Source	Substrate	Component	Condition	Color	Lead	Results
1		Calibration Check					Red	Yes	1.10
2		Calibration Check					Red	Yes	1.30
3	A	Staff Room	Wall	Plaster		Fair	White	NO	-0.70
4	B	Staff Room	Wall	Plaster		Fair	White	NO	-0.70
5	C	Staff Room	Wall	Brick		Good	Beige	NO	0.14
6	D	Staff Room	Wall	Brick		Damaged	Beige	NO	0.12
7		Staff Room		Wood	Facia	Fair	White	NO	0.00
8		Staff Room	Ceiling	Wood	Beam	Good	Brown	NO	0.02
9		Staff Room	Ceiling	Wood		Good	Brown	NO	0.02
10	C	Staff Room	Window	Wood	Sill	Good	Beige	NO	0.01
11	C	Staff Room	Window	Wood	Frame	Good	Beige	NO	0.03
12	A	Staff Room	Door	Wood		Good	Brown	NO	0.00
13	A	Staff Room	Cabinet	Metal	Shelf	Good	Brown	NO	0.01
14	A	Staff Room	Cabinet	Metal	Counter	Good	Silver	NO	0.04
15	A	Staff Room	Cabinet	Metal	Door	Good	White	NO	0.00
16	A	Staff Room	Cabinet	Metal	Shelf	Good	White	NO	0.00
17	A	Staff Room	Door	Wood	Interior	Good	Lt. Brown	NO	0.03
18	A	Staff Room	Door	Wood	Jamb	Good	Dr. Brown	NO	0.00
19	A	Staff Bathroom	Wall	Brick		Good	Dr. Brown	NO	0.01
20	B	Staff Bathroom	Wall	Plaster		Good	White	NO	0.10
21	C	Staff Bathroom	Wall	Plaster		Good	White	NO	-0.60
22	D	Staff Bathroom	Wall	Brick		Good	White	NO	0.09
23	A	Staff Bathroom	Wall	Ceramic	Base	Good	Red	YES	13.00

**MTGL, INC. XRF Lead-Based Paint Sampling Log**

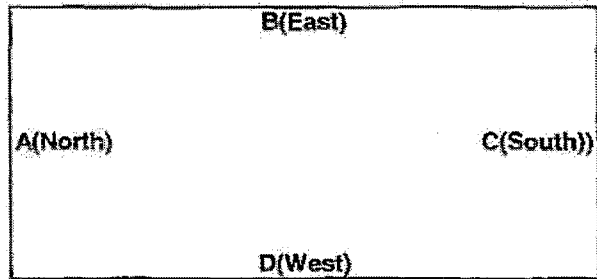
**Client:** Southern Economic Development Corp.  
**Project:** 101 50th Street  
**Location:** San Diego, CA  
**Date:** June, 2008



Sample #	Side	Sample Location	Source	Substrate	Component	Condition	Color	Lead	Results
24		Staff Bathroom	Sink	Ceramic		Good	White	YES	8.70
25		Staff Bathroom	Toilet	Ceramic		Good	White	NO	0.00
26		Staff Bathroom	Door	Wood	Frame	Good	Lt. Brown	NO	0.01
27		Staff Bathroom	Door	Wood	Jamb	Good	Lt. Brown	NO	0.00
28		Staff Bathroom	Floor	Ceramic	Tile	Good	Multi	NO	0.02
29	A	Reception/Entryway	Wall	Plaster		Good	White	NO	0.01
30	B	Reception/Entryway		Brick		Good	White	NO	0.00
31	C	Reception/Entryway		Plaster		Good	White	NO	0.20
32		Reception/Entryway	Counter			Good	White	NO	0.00
33		Reception/Entryway	Wall	Plaster	Seperation	Good	White	NO	0.00
34		Reception/Entryway	Beam	Metal	Support	Good	White	YES	7.20
35		Reception/Entryway	Beam	Metal	Support	Good	Brown	YES	8.80
36	D	Reception/Entryway	Door	Wood	Frame	Good	Dr. Brown	NO	0.04
37	D	Reception/Entryway	Door	Wood	Jamb	Good	Lt. Brown	NO	0.01
38	D	Reception/Entryway	Door	Wood	Interior	Good	Lt. Brown	NO	0.10
39	A	Reception/Entryway	Cabinet	Wood	Frame	Good	Brown	NO	0.02
40	A	Reception/Entryway	Cabinet	Wood	Shelf	Good	Brown	NO	0.01
41	A	Storage Room	Wall	Plaster		Fair	White	NO	0.02
42	B	Storage Room	Wall	Plaster		Fair	White	NO	0.01
43	C	Storage Room	Wall	Plaster		Fair	White	NO	0.01
44	D	Storage Room	Wall	Plaster		Fair	White	NO	0.03
45	D	Storage Room	Window		Frame	Good		NO	-0.60
46	D	Storage Room	Window		Sash	Good		NO	0.02

**MTGL, INC. XRF Lead-Based Paint Sampling Log**

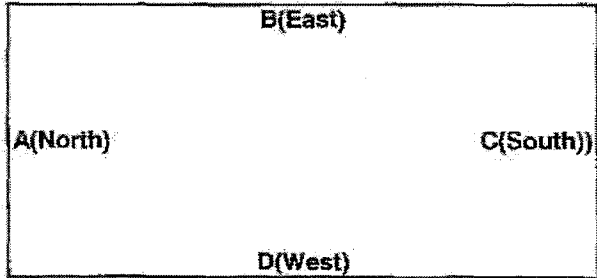
**Client:** Southern Economic Development Corp.  
**Project:** 101 50th Street  
**Location:** San Diego, CA  
**Date:** June, 2008



Sample #	Side	Sample Location	Source	Substrate	Component	Condition	Color	Lead	Results
47	A	Staff Only Room	Wall	Plaster		Poor	White	NO	0.07
48	B	Staff Only Room	Wall	Plaster		Poor	White	NO	-0.05
49	c	Staff Only Room	Wall	Plaster		Fair	White	NO	0.01
50	D	Staff Only Room	Wall	Plaster		Fair	White	NO	-0.03
51		Staff Only Room	Cabinet	Wood	Casing	Good	Brown	NO	0.07
52		Staff Only Room	Cabinet	Wood	Shelf	Good	Brown	NO	0.10
53		Staff Only Room	Ceiling	Wood	Beam	Good	Brown	NO	0.01
54	A	Staff Only Room	Window	Metal	Casing	Good		NO	-0.04
55	A	Staff Only Room	Window	Metal	Sash	Good		NO	0.01
56	B	Loading Dock	Wall	Plaster		Poor	White	NO	0.01
57	C	Loading Dock	Wall	Plaster		Poor	White	NO	-0.02
58	D	Loading Dock	Wall	Plaster		Poor	White	NO	-0.60
59	A	Library	Wall	Plaster		Poor	White	NO	0.00
60	B	Library	Wall	Plaster		Poor	White	NO	0.00
61	C	Library	Wall	Plaster		Poor	White	NO	0.00
62	D	Library	Wall	Plaster		Poor	White	NO	0.04
63	C	Library	Window	Metal	Casing	Good		NO	0.30
64	C	Library	Window	Metal	Sill	Good		NO	0.20
65		Women's Bathroom	Floor	Ceramic	Tile	Good	Multi	NO	0.00
66		Women's Bathroom	Stall	Metal		Good	Gray	NO	0.00
67		Women's Bathroom	Sink	Ceramic		Good	White	YES	5.00
68	A	Women's Bathroom	Wall	Ceramic	Tile	Good	Pink	YES	14.00
69	B	Women's Bathroom	Wall	Ceramic	Tile	Good	Pink	YES	13.00
70	C	Women's Bathroom	Wall	Ceramic	Tile	Good	Pink	YES	13.00
71	D	Women's Bathroom	Wall	Ceramic	Tile	Good	Pink	YES	14.00

**MTGL, INC. XRF Lead-Based Paint Sampling Log**

**Client:** Southern Economic Development Corp.  
**Project:** 101 50th Street  
**Location:** San Diego, CA  
**Date:** June, 2008

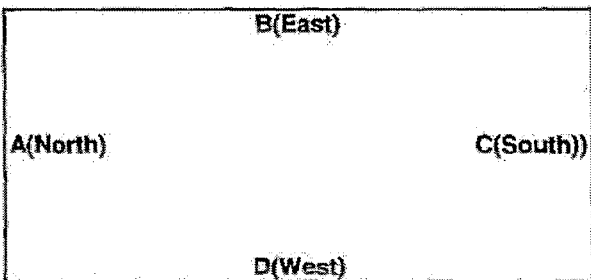


Sample #	Side	Sample Location	Source	Substrate	Component	Condition	Color	Lead	Results
72	A	Men's Bathroom	Wall	Ceramic	Tile	Good	Yellow	YES	21.00
73	B	Men's Bathroom	Wall	Ceramic	Tile	Good	Yellow	YES	18.00
74	C	Men's Bathroom	Wall	Ceramic	Tile	Good	Yellow	YES	22.00
75	D	Men's Bathroom	Wall	Ceramic	Tile	Good	Yellow	YES	21.00
76		Men's Bathroom	Sink	Ceramic		Good	White	YES	6.20
77		Men's Bathroom	Toilet	Ceramic		Good	White	NO	0.00
78		Men's Bathroom	Stall	Metal		Good	Gray	NO	0.00
79		Men's Bathroom	Door	Wood	Frame	Good	White	NO	0.02
80		Men's Bathroom	Door	Wood	Jamb	Good	Lt. Brown	NO	0.03
81		Men's Bathroom	Door	Wood	Interior	Good	Lt. Brown	NO	0.03
82	C	Library (Emergency Door)	Door	Wood	Frame	Good	Dr. Brown	NO	0.02
83	C	Library (Emergency Door)	Door	Wood	Jamb	Good	Dr. Brown	NO	VOID
84	C	Exterior Wall	Wall	Brick		Good	Tan	NO	0.01
85	D	Exterior Wall	Wall	Brick		Good	Tan	NO	0.01
86	A	Exterior Wall	Wall	Stucco		Good	Tan	NO	0.01
87	B	Exterior Wall	Wall	Stucco		Good	Tan	NO	0.01
88	D	Entry Door	Door	Metal	Interior	Good	Silver	NO	-0.05
89	D	Entry Door	Door	Metal	Exterior	Good	Silver	NO	-0.05
90	D	Entry Door	Door	Metal	Jamb	Good	Silver	NO	0.04
91	D	Window Grate	Windw	Iron		Good	Black	NO	0.09
92	D	Exterior Support Beam	Beam	Steel	Support	Good	Tan	YES	15.00
93	D	Exterior Drain Spout		Aluminum		Good	Tan	NO	0.10
94	A	Loading Dock Door	Door		Casing	Fair	Tan	NO	0.00
95	A	Loading Dock Door	Door		Jamb	Fair	Tan	NO	0.1
96				Void					



**MTGL, INC. XRF Lead-Based Paint Sampling Log**

**Client:** Southern Economic Development Corp.  
**Project:** 101 50th Street  
**Location:** San Diego, CA  
**Date:** June , 2008



Sample #	Side	Sample Location	Source	Substrate	Component	Condition	Color	Lead	Results
97	A	Electrical Box Cover		Metal		Good	Tan	NO	0.01
98	A	Electrical Box Pole		Metal		Good	Tan	NO	0.00
99	A	Wall Grate		Metal		Good	Tan	NO	0.00
100	A	Mechanical Room	Door	Wood	Exterior	Good	Tan	NO	0.05
101	A	Mechanical Room	Door	Wood	Jamb	Good	Tan	NO	0.06
102	A	Roof	Facia	Metal		Good	Tan	NO	0.80
103	A	Lower Roof Fencing		Wood		Good	Tan	NO	0.22
104		Exterior Alcove	Facia	Wood		Good	Brown	NO	0.01
105		Exterior Alcove	Overhang	Wood	Plank	Good	Brown	NO	0.00
106		Exterior Alcove	Beam	Wood	Support	Good	Brown	NO	0.00
107		Exterior Alcove	Overhang	Wood	Sm Trim	Good	Brown	NO	0.04
108		Exterior Alcove	Overhang	Wood	2" Slats	Good	Brown	NO	0.01
		END OF REPORT							

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**APPENDIX D**

**ITEMIZED REPAIR/REMODEL PRICING**

### Itemized Price List for Repair and Remodel

Description	Budget per Unit Price	Contractor Fee 20%
<b>Exterior Area</b>	<b>Exterior Area</b>	<b>Exterior Area</b>
Sprinkler work	\$ 3,500.00	\$ 700.00
Exterior fencing repairs	\$ 800.00	\$ 160.00
Trim existing plants & trees	\$ 1,000.00	\$ 200.00
Add plants to Foyer Area	\$ 1,100.00	\$ 220.00
Grind concrete	\$ 1,000.00	\$ 200.00
Asphalt patch, 1" overlay, seal & stripe	\$ 10,500.00	\$ 2,100.00
Remove fencing	\$ 300.00	\$ 60.00
Repair existing light poles	\$ 800.00	\$ 160.00
<b>Exterior Building</b>	<b>Exterior Building</b>	<b>Exterior Building</b>
Paint trim color	\$ 2,000.00	\$ 400.00
Replace damaged plywood	\$ 1,000.00	\$ 200.00
Repair Roof drains	\$ 500.00	\$ 100.00
Torch down roofing	\$ 12,500.00	\$ 2,500.00
Repair stucco	\$ 1,000.00	\$ 200.00
Repair front door	\$ 300.00	\$ 60.00
Replace venting to Heater Room	\$ 400.00	\$ 80.00
Replace exterior lighting	\$ 600.00	\$ 120.00
<b>Entry Room</b>	<b>Entry Room</b>	<b>Entry Room</b>
Vinyl flooring	\$ 300.00	\$ 60.00
Drywall patch & texture	\$ 300.00	\$ 60.00
Front door work	\$ 300.00	\$ 60.00
Paint complete	\$ 400.00	\$ 80.00
Tone text, elec. work	\$ 200.00	\$ 40.00
Lighting ballasts/ bulbs	\$ 200.00	\$ 40.00
Fire Extinguisher & Smoke Detector	\$ 135.00	\$ 27.00

**Itemized Price List for Repair and Remodel cont...**

<b>Description</b>	<b>Budget per Unit Price</b>	<b>Contractor Fee 20%</b>
<b>Staff Restroom</b>	<b>Staff Restroom</b>	<b>Staff Restroom</b>
Exhaust fan	\$ 125.00	\$ 25.00
Mirror	\$ 100.00	\$ 20.00
Faucet	\$ 100.00	\$ 20.00
Patch and repair drywall	\$ 200.00	\$ 40.00
Paint walls	\$ 400.00	\$ 80.00
Flushing valves	\$ 150.00	\$ 30.00
Dispensers	\$ 225.00	\$ 45.00
Electrical	\$ 250.00	\$ 50.00
Vinyl	\$ 250.00	\$ 50.00
Fire extinguisher & smoke detector	\$ 135.00	\$ 27.00
<b>Staff Kitchen</b>	<b>Staff Kitchen</b>	<b>Staff Kitchen</b>
Patch & repair walls	\$ 250.00	\$ 50.00
Paint complete	\$ 800.00	\$ 160.00
Electrical	\$ 450.00	\$ 90.00
Faucet, drain, supply lines	\$ 250.00	\$ 50.00
Glue down carpet/vinyl	\$ 980.00	\$ 196.00
Fire extinguisher & smoke detector	\$ 135.00	\$ 27.00
<b>Reception</b>	<b>Reception</b>	<b>Reception</b>
Demo carpet	\$ 200.00	\$ 40.00
Remove stage area.	\$ 100.00	\$ 20.00
Patch drywall and retexture.	\$ 75.00	\$ 15.00
Repair cabinetry	\$ 125.00	\$ 25.00
Paint complete	\$ 250.00	\$ 50.00
Install glue down carpet	\$ 450.00	\$ 90.00

**Itemized Price List for Repair and Remodel cont...**

<b>Description</b>	<b>Budget per Unit Price</b>	<b>Contractor Fee 20%</b>
<b>Library</b>	<b>Library</b>	<b>Library</b>
Demo carpet	\$ 600.00	\$ 120.00
Remove lighting (save)	\$ 650.00	\$ 130.00
Remove registers, grills (save)	\$ 350.00	\$ 70.00
Remove ceiling tile & Insulation.	\$ 2,300.00	\$ -
Install R-30 in ceiling	\$ 1,850.00	\$ 370.00
Install 5/8 type X drywall	\$ 6,000.00	\$ 1,200.00
Patch and repair walls	\$ 300.00	\$ 60.00
Remove moldy drywall & replace	\$ 800.00	\$ 160.00
Repair existing shelving	\$ 450.00	\$ 90.00
Paint complete	\$ 6,690.00	\$ 1,338.00
Re-install lighting and registers	\$ 500.00	\$ 100.00
Replace bad ballasts/bulbs	\$ 500.00	\$ 100.00
Install new switches and outlets	\$ 425.00	\$ 85.00
Install glue down carpet	\$ 4,300.00	\$ 860.00
(2) fire extinguishers & (2) smokes	\$ 270.00	\$ 54.00
Install comm. Grade vinyl	\$ 1,800.00	\$ 360.00
Repair glass @ window areas	\$ 350.00	\$ 70.00
<b>Drop-in Area</b>	<b>Drop-in Area</b>	<b>Drop-in Area</b>
Patch and retexture drywall	\$ 300.00	\$ 60.00
Repair sink/faucet	\$ 225.00	\$ 45.00
Repair cabinetry	\$ 100.00	\$ 20.00
Paint complete	\$ 500.00	\$ 100.00
New lights	\$ 350.00	\$ 70.00
Test panel and replace 2 breakers	\$ 150.00	\$ 30.00
Replace switches and outlets	\$ 100.00	\$ 20.00
fire extinguisher & smoke detector	\$ 135.00	\$ 27.00

**Itemized Price List for Repair and Remodel cont...**

<b>Description</b>	<b>Budget per Unit Price</b>	<b>Contractor Fee 20%</b>
<b>Loading Area</b>	<b>Loading Area</b>	<b>Loading Area</b>
Demo 800 sqft of drywall	\$ 650.00	\$ 130.00
Remove insulation	\$ 250.00	\$ 50.00
Replace framing @ W. wall	\$ 650.00	\$ 130.00
Insulate walls R-13	\$ 330.00	\$ 66.00
Insulate ceiling R-30	\$ 420.00	\$ 84.00
Install 5/8 type X drywall	\$ 1,650.00	\$ 330.00
Paint complete	\$ 1,350.00	\$ 270.00
Replace garage door opener	\$ 350.00	\$ 70.00
Repair existing garage door	\$ 200.00	\$ 40.00
Install thresholds, closers to man doors	\$ 375.00	\$ 75.00
Replace switches, outlets and lights	\$ 275.00	\$ 55.00
fire extinguisher	\$ 100.00	\$ 20.00
<b>Staff Area</b>	<b>Staff Area</b>	<b>Staff Area</b>
Repair cabinetry	\$ 200.00	\$ 40.00
Patch and retexture drywall	\$ 475.00	\$ 95.00
Install new faucet, trap & supplies	\$ 265.00	\$ 53.00
Install new soap and towel dispenser	\$ 125.00	\$ 25.00
Paint complete	\$ 1,425.00	\$ 285.00
Replace bulbs	\$ 215.00	\$ 43.00
Install new switches, outlets, GFI's	\$ 175.00	\$ 35.00
fire extinguisher & smoke detector	\$ 135.00	\$ 27.00
<b>Heater Room</b>	<b>Heater Room</b>	<b>Heater Room</b>
Clean system and replace filtration	\$ 300.00	\$ 60.00
Replace fuses, clean contacts	\$ 175.00	\$ 35.00
Replace thermostats	\$ 125.00	\$ 25.00
Tone punchdown block to outlets	\$ 200.00	\$ 40.00

**Itemized Price List for Repair and Remodel cont...**

<b>Description</b>	<b>Budget per Unit Price</b>	<b>Contractor Fee 20%</b>
<b>Women's Restroom</b>	<b>Women's Restroom</b>	<b>Women's Restroom</b>
Demo lighting ceiling and insulation	\$ 300.00	\$ 60.00
Demo toilets, paper towel, sanitation and seat cover dispensers	\$ 250.00	\$ 50.00
Replace exhaust motor and grill	\$ 175.00	\$ 35.00
Install R-30 insulation	\$ 100.00	\$ 20.00
Install 5/8 type X drywall	\$ 200.00	\$ 40.00
Clean and seal existing tile	\$ 150.00	\$ 30.00
Repair and paint partitions	\$ 200.00	\$ 40.00
Paint complete	\$ 185.00	\$ 37.00
Install 2 ea new toilets	\$ 535.00	\$ 107.00
Rebuild existing flush valves	\$ 175.00	\$ 35.00
Install new toilet paper (2), seat cover (2) sanitary, soap and paper towel dispensers	\$ 300.00	\$ 60.00
Install new ceiling lights & vanity light	\$ 125.00	\$ 25.00
Install new mirror	\$ 85.00	\$ 17.00
Install new switch & GFI	\$ 35.00	\$ 7.00
<b>Men's Restroom</b>	<b>Women's Restroom</b>	<b>Women's Restroom</b>
Demo lighting, ceiling tiles & insulation	\$ 300.00	\$ 60.00
Demo toilet, urinal, seat cover and paper towel dispensers	\$ 250.00	\$ 50.00
Replace exhaust motor and grill	\$ 175.00	\$ 35.00
Install R-30 insulation	\$ 100.00	\$ 20.00
Install 5/8 type X drywall	\$ 200.00	\$ 40.00
Clean and seal tile	\$ 150.00	\$ 30.00
Repair and paint partitions	\$ 175.00	\$ 35.00
Paint complete	\$ 185.00	\$ 37.00
Install new toilet & urinal	\$ 525.00	\$ 105.00
Rebuild flush valves	\$ 300.00	\$ 35.00

**Itemized Price List for Repair and Remodel cont...**

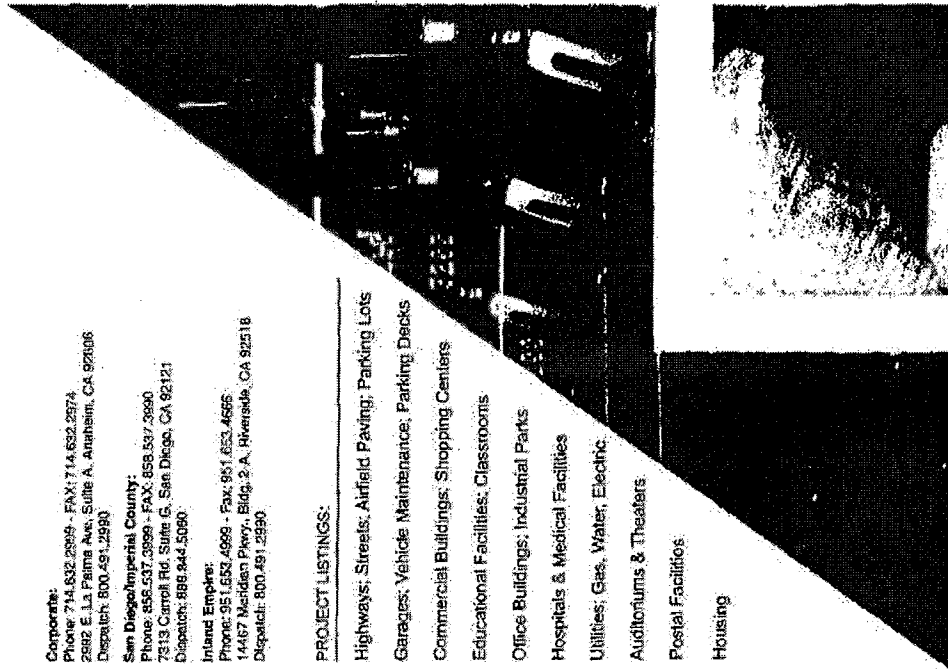
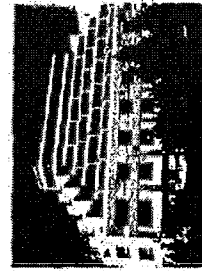
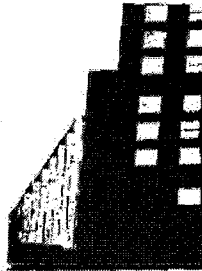
<b>Description</b>	<b>Budget per Unit Price</b>	<b>Contractor Fee 20%</b>
<b>Men's Restroom cont....</b>	<b>Men's Restroom cont....</b>	<b>Men's Restroom cont....</b>
Install new toilet paper, seat cover, soap and paper towel dispensers(1ea)	\$ 175.00	\$ 42.00
Install new ceiling lights & vanity light	\$ 210.00	\$ 25.00
Install new mirror	\$ 125.00	\$ 17.00
Install new switch & GFI	\$ 85.00	\$ 7.00
Install new toilet paper, seat cover, soap	\$ 35.00	\$ -
<b>Total (All Columns)</b>	<b>\$180,135.00</b>	<b>\$35,567.00</b>



**Corporate:**  
 Phone: 714.632.2939 - FAX: 714.632.2974  
 2982 E. La Palma Ave., Suite A, Anaheim, CA 92806  
 Dispatch: 800.491.2990  
**San Diego/Imperial County:**  
 Phone: 856.537.3999 - FAX: 856.537.3990  
 7313 Carroll Rd., Suite G, San Diego, CA 92121  
 Dispatch: 888.844.5060  
**Inland Empire:**  
 Phone: 951.653.4999 - Fax: 951.653.4666  
 14467 Macrides Pkwy, Bldg. 2-A, Riverside, CA 92518  
 Dispatch: 800.491.2990

**PROJECT LISTINGS:**

- Highways; Streets; Airfield Paving; Parking Lots
- Garages; Vehicle Maintenance; Parking Decks
- Commercial Buildings; Shopping Centers
- Educational Facilities; Classrooms
- Office Buildings; Industrial Parks
- Hospitals & Medical Facilities
- Utilities; Gas, Water, Electric
- Auditoriums & Theaters
- Postal Facilities
- Housing



**APPENDIX B**

**MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE**

## Materials Typically Accepted by Certificate of Compliance

1. Soil amendment
2. Fiber mulch
3. PVC or PE pipe up to 16 inch diameter
4. Stabilizing emulsion
5. Lime
6. Preformed elastomeric joint seal
7. Plain and fabric reinforced elastomeric bearing pads
8. Steel reinforced elastomeric bearing pads
9. Waterstops (Special Condition)
10. Epoxy coated bar reinforcement
11. Plain and reinforcing steel
12. Structural steel
13. Structural timber and lumber
14. Treated timber and lumber
15. Lumber and timber
16. Aluminum pipe and aluminum pipe arch
17. Corrugated steel pipe and corrugated steel pipe arch
18. Structural metal plate pipe arches and pipe arches
19. Perforated steel pipe
20. Aluminum underdrain pipe
21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
22. Metal target plates
23. Paint (traffic striping)
24. Conductors
25. Painting of electrical equipment
26. Electrical components
27. Engineering fabric
28. Portland Cement
29. PCC admixtures
30. Minor concrete, asphalt
31. Asphalt (oil)
32. Liquid asphalt emulsion
33. Epoxy

**APPENDIX C**  
**SAMPLE CITY INVOICE**

City of San Diego, Field Engineering Div., 9485 Aero Drive, SD CA 92123		<b>Contractor's Name:</b>	
<b>Project Name:</b>		Contractor's Address:	
Work Order No or Job Order No.			
City Purchase Order No.		Contractor's Phone #:	<b>Invoice No.</b>
Resident Engineer (RE):		Contractor's fax #:	<b>Invoice Date:</b>
RE Phone#:	Fax#:	Contact Name:	Billing Period: (      to

Item #	Item Description	Contract Authorization				Previous Totals To Date		This Estimate		Totals to Date	
		Unit	Price	Qty	Extension	%/QTY	Amount	% / QTY	Amount	% / QTY	Amount
1					\$ -		\$ -		\$ -	0.00%	\$ -
2					\$ -		\$ -		\$ -	0.00%	\$ -
3					\$ -		\$ -		\$ -	0.00%	\$ -
4					\$ -		\$ -		\$ -	0.00%	\$ -
5					\$ -		\$ -		\$ -	0.00%	\$ -
6					\$ -		\$ -		\$ -	0.00%	\$ -
7					\$ -		\$ -		\$ -	0.00%	\$ -
8					\$ -		\$ -		\$ -	0.00%	\$ -
9					\$ -		\$ -		\$ -	0.00%	\$ -
10					\$ -		\$ -		\$ -	0.00%	\$ -
11					\$ -		\$ -		\$ -	0.00%	\$ -
12					\$ -		\$ -		\$ -	0.00%	\$ -
13					\$ -		\$ -		\$ -	0.00%	\$ -
14					\$ -		\$ -		\$ -	0.00%	\$ -
15					\$ -		\$ -		\$ -	0.00%	\$ -
16					\$ -		\$ -		\$ -	0.00%	\$ -
17	<b>Field Orders</b>				\$ -		\$ -		\$ -	0.00%	\$ -
18					\$ -		\$ -		\$ -	0.00%	\$ -
<b>CHANGE ORDER No.</b>					\$ -		\$ -		\$ -	0.00%	\$ -
Total Authorized Amount (including approved Change Order)					\$ -		\$ -		\$ -	<b>Total Billed</b>	\$ -

**SUMMARY**

A. Original Contract Amount	\$ -
B. Approved Change Order #00 Thru #00	\$ -
C. Total Authorized Amount (A+B)	\$ -
D. Total Billed to Date	\$ -
E. Less Total Retention (5% of D )	\$ -
F. Less Total Previous Payments	\$ -
<b>G. Payment Due Less Retention</b>	<b>\$0.00</b>
H. Remaining Authorized Amount	\$0.00

I certify that the materials  
have been received by me in  
the quality and quantity specified

\_\_\_\_\_  
Resident Engineer

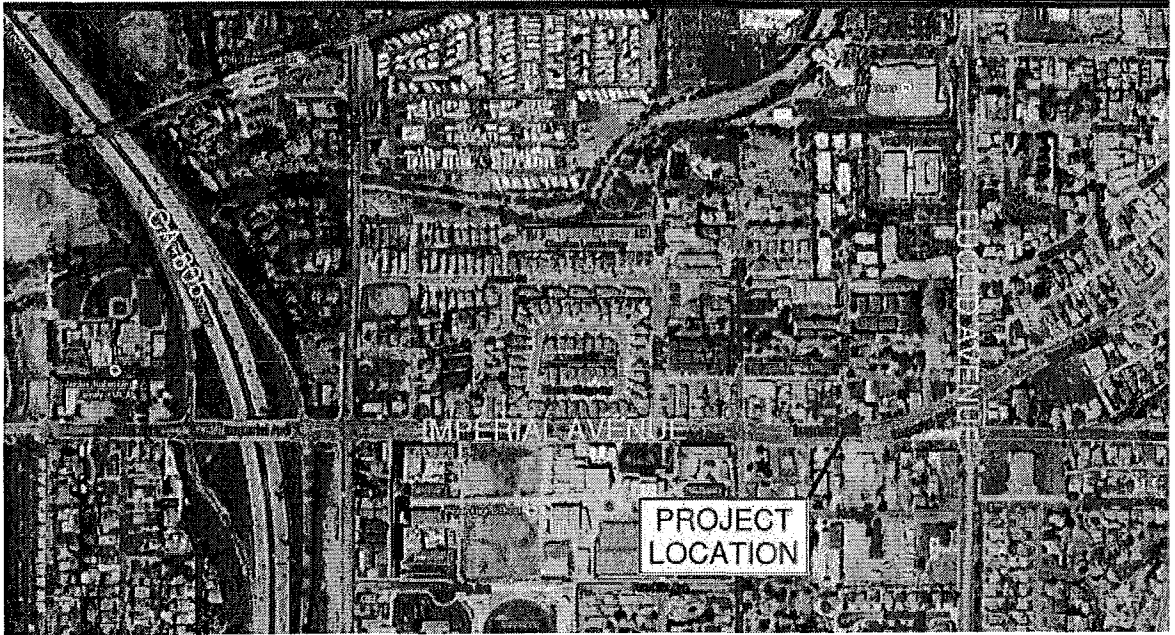
\_\_\_\_\_  
Construction Engineer

**Retention and/or Escrow Payment Schedule**

Total Retention Required as of this billing (Item E)	\$0.00
Previous Retention Withheld in PO or in Escrow	\$0.00
<b>Add'l Amt to Withhold in PO/Transfer in Escrow:</b>	<b>\$0.00</b>
<b>Amt to Release to Contractor from PO/Escrow:</b>	

Contractor Signature and Date: \_\_\_\_\_

**APPENDIX D**  
**LOCATION MAP**



**APPENDIX E**

**BUILDING DEMOLITION CITY FORMS & REFERENCE DOCUMENTS**





THE CITY OF SAN DIEGO

PERMIT INSTRUCTIONS, PROCEDURES FOR

# Building Demolition/Removal

CITY OF SAN DIEGO DEVELOPMENT SERVICES  
1222 FIRST AVENUE, MS 301 SAN DIEGO, CA 92101-4101

INFORMATION  
BULLETIN

# 710

JULY 2014

## PERMISSION TO UTILIZE YOUR PROPERTY TO PERFORM A VARIETY OF DRILLS

You are applying for a demolition permit to clear a building off your property. The San Diego Fire-Rescue Department is requesting your permission to utilize your property to perform a variety of training drills just prior to the building being destroyed.

We will only conduct these drills after a release of liability agreement is signed between you (the property owner) and the San Diego Fire-Rescue Department; this agreement is for your protection.

We will also require a copy of the Demolition Permit and Hazard Abatement Release prior to any training being conducted.

For additional questions you may have, please contact the San Diego Fire-Rescue Department at (619) 533-4300 and request to speak to the Operations Support Captain.

This Information Bulletin is provided to implement the Demolition/Removal Permit Procedures contained in Chapter 12, Article 9, Division 5, of the San Diego Municipal Code. Demolition/Removal Permit applications are reviewed for compliance with the minimum standards necessary to safeguard public health, safety, and welfare. The intent of these procedures is to protect the public against personal injury or property damage and to insure completion of the demolition or removal and cleanup of the site.

### I. WHEN IS A PERMIT REQUIRED?

A Demolition Permit is required for the **complete** demolition/removal of any structure (see San Diego Municipal Code Section 129.0503 for Demolition/Removal Permit Exemptions). All open plumbing and sewer lines must be capped in an approved manner whether a demolition permit is required or not. A separate permit is not required for the capping of the sewer. **Note:** Demolition/Removal Permit exemptions do not apply if the structure(s) is a designated Historical Resource or is located in a designated historical district, in accordance with SDMC Section 143.0210(d) and 143.0211; or when a discretionary permit has been previously issued requiring implementation of a Mitigation Monitoring and Reporting Program for Historical Resources.

*Demolition permits will not be issued on a property where a development permit (Neighborhood Use Permit, Neighborhood Development Permit, Conditional Use Permit, Variance, Coastal De-*

## Documents referenced in this Information Bulletin:

- California Building Code, (CBC)
- San Diego Municipal Code, (SDMC)
- Stormwater Standards Manual
- Information Bulletin 119, Requirements for Recycling and Disposal of Construction and Demolition Debris
- Information Bulletin 177, How to Obtain a Public Right-of-Way Permit for Traffic Control
- Information Bulletin 580, Potential Historical Resources Review
- Information Bulletin 581, Designated Historical Resources Review
- Uncontrolled Embankment Maintenance Agreement, DS-265
- Demolition Bond Specific Project, DS-399
- General Application, DS-3032
- San Diego Regional Hazardous Materials Questionnaire, HM-9171
- Waste Management Form for Construction & Demolition Debris, ES-008

*velopment Permit, Site Development Permit, or Planned Development Permit) is also being processed by the City until a decision has been made by the appropriate decision maker in accordance with the Land Development Code.*

A Demolition/Removal Permit is not required to demolish only part of a structure. A partial demolition will require a Building Permit in accordance with Chapter 12, Article 9, Division 2.

### II. OPTIONS FOR SERVICE

#### A. BY APPOINTMENT

Appointments may be scheduled in person at 1222 First Avenue, third floor, or by phone at (619) 446-5300.

#### B. WALK IN

Visit the Check-In counter at the Development Services Department, 1222 First Avenue, third floor.

### III. SUBMITTAL REQUIREMENTS

#### A. GENERAL APPLICATION

Demolition/Removal permits require the completion of a General Application (DS-3032). The description of work must include the number of building stories, the building square footage, and, if residential, the number of bedrooms. For demolition of swimming

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DS-5710 (07-14)

pools, the depth of the swimming pool must be included.

**Note:** A contractor with an A or a C-21 class license may obtain a demolition permit. A contractor with a B-1 class license may obtain a demolition permit if that contractor's name appears on a current construction permit for the site. An owner-builder may also obtain a demolition permit.

#### **B. BUILDING RECORD (RESIDENTIAL OR COMMERCIAL)**

The Building Record for over the counter review of Demolition Permits is required for all projects, including swimming pools, except as listed below:

1. For structures on a site containing a designated historic resource or if the site is within a designated Historical District; or
2. When any structures on the site are greater than 45 years old.

See Section IV.A. for additional submittal requirements for Historical Review for those items listed in 1 and 2 above.

Please call the County of San Diego Assessor's Office at (858) 505-6262 to verify the location where the Building Record is kept. If the Building Record is inconclusive or unclear, the project will need to be submitted for Potential Historical Resource Review as described in Sec. IV.A.

#### **C. TENANT NOTIFICATION**

If the demolition is for a multiple dwelling unit structure containing four or more units, the applicant shall include a letter certifying that each tenant who may be affected by the proposed demolition has been notified of the owner's intent to apply for a Demolition/Removal Permit. A copy of the notice shall be attached and the letter shall state how the notice was served (U.S. Mail or by personal delivery).

#### **D. WASTE MANAGEMENT FORM (NOT REQUIRED FOR SWIMMING POOL DEMOLITION)**

To encourage reusing and recycling of demolition debris, the City of San Diego Environmental Services Department enacted a Construction and Demolition Debris Recycling program. This program requires demolition permits for buildings to complete a Waste Management Form - Part 1 (ES-008) and pay a refundable recycling deposit at the time the permit is issued. Information Bulletin 119 provides detailed information about the program. For a listing of certified recycling facilities and/or technical assistance, contact the [Environmental Services Department](#) at (858) 694-7000. Non-recyclable debris must be transported in a lawful manner to an approved landfill.

#### **E. SAN DIEGO REGIONAL HAZARDOUS MATERIALS QUESTIONNAIRE (NOT REQUIRED FOR SWIMMING POOL DEMOLITION)**

A San Diego Regional Hazardous Materials Questionnaire (HM-9171) is required for all Demolition Permits. Written notice of all demolitions where asbestos is present must be given to the County Air Pollution Control District (APCD), and the San Diego Regional Hazardous Materials Questionnaire (HM-9171) must be approved by the APCD before a permit will be issued, unless the demolition or renovation involves a residential building having four or fewer dwelling units. Demolition of multiple residential buildings, regardless of the number of dwelling units, must also obtain APCD Approval as required by the Environmental Protection Agency (EPA). A notification form can be obtained by contacting the APCD at (858) 586-2660 or at the [APCD website](#).

#### **F. GAS AND ELECTRICAL SERVICE (NOT REQUIRED FOR SWIMMING POOL DEMOLITION)**

A Certificate of Discontinuance of Service for each building to be demolished is required from San Diego Gas & Electric (SDG&E). Please call SDG&E project management office at (619) 230-7800.

#### **G. SITE PLAN**

Projects proposing demolition of structures 45 or more years old, or any projects within the Downtown Community Plan area, require a demolition site plan (for more information, see "Historical Review," and "Downtown Community Plan area" in Section IV, below). The site plan must be drawn to scale, include the property lines, legal description, location and dimension of all buildings and site features to be removed/remain (e.g., parking lot, fence, or any other structures) and limit of work demarcation.

#### **H. INSURANCE REQUIREMENTS (NOT REQUIRED FOR SWIMMING POOL DEMOLITION)**

Demolition/Removal Permits require public liability insurance to protect against loss from liability for damages on account of bodily injury, including death, and to protect against loss for liability or damages to any property caused directly or indirectly by the demolition or associated work of the *structure* except that:

1. A policy of insurance shall not be required from the State of California, its political subdivision, or any governmental agency; or
2. Any owner required to demolish a structure that is two stories or less in height and has been declared by a governmental authority to be unsafe or a public nuisance.

A Certificate of Insurance must be submitted prior to permit issuance. The amount of insurance shall be not less than \$50,000 for one person injured in one accident, not less than \$100,000 for more than one person injured in one accident, and not less than \$5,000 with respect to any property damage. The insurance policy shall be maintained in full force and effect during the demolition and associated work on the structure and site.

#### **I. STORM WATER REQUIREMENTS**

Demolition projects are required to implement effective Storm Water Best Management Practices (BMPs) to eliminate discharge of pollutants to the storm drain conveyance system and to receiving water bodies. If the demolition involves excavation or grading that results in ground disturbance of one acre or greater, the project is subject to the State Construction General Permit and is required to prepare a Storm Water Pollution Prevention Plan and obtain a Notice of Intent from the State Water Board prior to issuance of a demolition permit.

#### **J. UNCONTROLLED EMBANKMENT AGREEMENT (DS-265)**

Required for demolition of a swimming pool greater than five (5) feet in depth when the fill is not compacted, tested and approved by a civil engineer, or the debris is buried in the excavation. An exhibit showing the location of the old swimming pool and fill area must be included, along with a properly executed Uncontrolled Embankment Agreement, for review and approval. The final executed agreement shall then be recorded with the County Recorder's office. Future use of the site and disclosure requirements should be carefully considered prior to choosing this option. New construction on the site may be hampered by the debris and soil settlement could result within the fill area. If the fill is compacted, an Uncontrolled Embankment Agreement will not be required; however, a final soils compaction report prepared by a licensed geotechnical or civil engineer must be submitted to the Building Inspector prior to completion of the demolition permit.

### **IV. REQUIRED NOTIFICATIONS AND APPROVALS**

In addition to the submittal requirements above, you may need the following items in order to obtain your Demolition Permit.

#### **A. HISTORICAL REVIEW**

If your property contains any structure 45 or more years old, a historic review is required (see Information Bulletin 580, Potential Historical Resource Review). If the site contains a designated historic resource, or is located within an historic district, a historic review is

required (see Information Bulletin 581, Designated Historical Resource Review).

#### **B. DOWNTOWN COMMUNITY PLAN AREA REVIEW**

Demolition permits within the Downtown Community Plan area require a demolition site plan to be submitted and reviewed for compliance with the Downtown Community Plan FEIR Mitigation Monitoring and Reporting Program (MMRP).

#### **C. COASTAL APPROVAL**

For structures located in the Coastal Zone, approval from City of San Diego Development Services or from the State of California Coastal Commission is required. Contact the Development Services Department at (619) 446-5000 to determine the coastal jurisdiction for your project.

#### **D. SAN DIEGO UNIFIED PORT DISTRICT**

A Project Approval from the Port District is required for demolition or removal of structures located within the Port District jurisdiction. The project approval must include the Port District Permit number and the Coastal Development Permit number. Contact the Port District, (619) 686-6291.

#### **E. BUILDINGS WITH UNDERGROUND FUEL TANKS**

A Demolition Permit is not required for the removal of underground fuel tanks; however, a permit is required from the [San Diego Fire-Rescue Department](#), (619) 533-4477. Additionally, a permit is required from County of San Diego [Department of Environmental Health](#), (858) 505-6700. A separate Grading Permit issued by the City of San Diego may also be required (see below). **Note:** If the tank removal is to install new tanks to replace the existing tanks, a grading permit is not required.

#### **F. GRADING PERMIT**

A separate Grading Permit will be required prior to the issuance of a Demolition Permit when the demolition of buildings or structures result in a slope of 5-feet or greater; fill exceeding 5-feet in depth (except the filling of swimming pools); ground disturbance of one acre or greater; or meets any of the conditions listed in Land Development Code Section 129.0602.

#### **G. BUILDINGS WITH WELLS OR SEPTIC TANKS**

An inspection is required from the County of San Diego Department of Environmental Health for demolition of any building on property which has a well or septic tank. Contact the County of San Diego [Department of Environmental Health](#), (858) 505-6700.

**H. BUILDINGS AND STRUCTURES OVER THREE STORIES HIGH OR 36 FEET IN HEIGHT**

A demolition permit will not be issued for buildings and structures over three stories high or 36 feet in height until evidence is provided that a separate CAL/OSHA permit has been obtained from the Industrial Relations Department of the State of California (CAL OSHA), (619) 767-2280.

**I. TRAFFIC CONTROL PERMIT**

Protection for pedestrians may be required before demolition can begin. This protection shall be in accordance with section 3306 of the California Building Code.

A traffic control permit is required when erecting barricades and pedestrian protection in the public right-of-way. See Information Bulletin 177 "How to Obtain a Right-of-Way Permit for Traffic Control."

**J. ELECTRICAL OR GAS WELDING OR GAS CUTTING**

Shall require a permit issued by the City of San Diego Fire Marshall and shall comply with Chapter 26 of the California Fire Code.

**V. FEES/BOND**

**A. DEMOLITION REMOVAL PERMIT FEES**

These fees are charged to cover the costs of the review of a building demolition/removal to ensure compliance with applicable City of San Diego regulations. These fees also cover the pre-demolition inspection when required, and the inspection to ensure the lot clean-up, sewer cap and utility disconnects after the building/structure is demolished or removed.

Issuance fee .....	\$39
Mapping fee .....	\$10
Plan Check fee .....	\$100
Inspection Fee .....	\$127
Lead Hazard Prevention Fee (pre-1979).....	\$31
Fee Collection-Other Agency .....	\$9
Records fee .....	\$20
Construction Debris Deposit.....See Information .....	Bulletin 119

**B. SURETY BOND**

When the structure being demolished is over 6000 square feet, a surety bond, cashier's check, or cash in the amount of \$10,000 must be deposited with the City of San Diego. Surety bonds must be on a form DS-399 "Demolition Bond Specific Project." The bond will be released approximately six weeks after final inspection of the work. For bond release status, e-mail [DSDBondrelease@sandiego.gov](mailto:DSDBondrelease@sandiego.gov).

**VI. PERMIT EXPIRATION**

The permit will expire if the work authorized is not started within 60 days and is not completed within 90 days. One 60 day extension may be granted if work is delayed for reasons beyond the permittee's control. All request for permit extensions must be sent in writing to:

*Development Services Department  
Inspections Services-Permit Extensions  
9601 Ridgehaven Court, Suite 220  
San Diego, CA 92123*

**VII. INSPECTIONS**

**A. SEWER CAP**

The sewer line must be capped on private property within 5 feet of the property line. An approved no-hub, clamp-type coupling with cap, or other approved capping device, is required. Concrete fill is not acceptable. The sewer cap must be left exposed for inspection.

**B. DEBRIS REMOVAL**

All construction debris must be removed from the site.

**C. UTILITIES LINES**

All gas and electric lines must be disconnected and removed.

**D. CONSTRUCTION STORM WATER BMP**

Effective storm water BMPs shall be installed and maintained on the site.

To schedule an inspection, call (858) 581-7111. If access is required to inspect live electrical equipment, a responsible person must be present at the time of inspection to provide access to the energized electrical equipment.



City of San Diego  
Development Services  
1222 First Ave., MS-302  
San Diego, CA 92101  
(619) 446-5000

THE CITY OF SAN DIEGO

# General Application

FORM  
DS-3032  
AUGUST 2013

Part I (Must be completed for all permits/approvals)

**1. Approval Type:** *Separate electrical, plumbing and/or mechanical permits are required for projects other than single-family residences or duplexes*  Electrical/Plumbing/Mechanical  Sign  Structure  Grading  Public Right-of-Way  Subdivision  Demolition/Removal  Development Approval  Vesting Tentative Map  Tentative Map  Map Waiver  Other: \_\_\_\_\_

**2. Project Address/Location:** *Include Building or Suite No.*  
101 50th Street, San Diego CA 92102 **Project Title:** Former Valencia Library Demolition **Project No.:** *For City Use Only*

**Legal Description:** *(Lot, Block, Subdivision Name & Map Number)*  
All that portion of Lot 42 of Hortons Purchase, Per Map No. 283 **Assessor's Parcel Number:** 548-150-07

**Existing Use:**  House/Duplex  Condominium/Apartment/Townhouse  Commercial/Non-Residential  Vacant Land  
**Proposed Use:**  House/Duplex  Condominium/Apartment/Townhouse  Commercial/Non-Residential  Vacant Land

**Project Description:**  
Demolition of former Valencia Library

**3. Property Owner/Lessee Tenant Name:** *Check one*  Owner  Lessee or Tenant **Telephone:** (619) 533-7113 **Fax:** (619) 236-9148  
City of San Diego Successor Agency  
**Address:** 401 B Street, Suite 400 **City:** San Diego **State:** CA **Zip Code:** 92101 **E-mail Address:** sorenson@civicsd.com

**4. Permit Holder Name -** This is the property owner, person, or entity that is granted authority by the property owner to be responsible for scheduling inspections, receiving notices of failed inspections, permit expirations or revocation hearings, and who has the right to cancel the approval (in addition to the property owner). SDMC Section 113.0103.  
**Name:** City of San Diego Successor Agency **San Diego** **Telephone:** (619) 533-7113 **Fax:** (619) 236-9148  
**Address:** 401 B Street, Suite 400 **City:** San Diego **State:** CA **Zip Code:** 92101 **E-mail Address:** sorenson@civicsd.com

**5. Licensed Design Professional (if required):** (check one)  Architect  Engineer **License No.:** 78071  
**Name:** Samuel Waisbord, Nasland Engineering **Telephone:** (858) 292-7770 **Fax:** (858) 571-3241  
**Address:** 4740 Ruffner Street **City:** San Diego **State:** CA **Zip Code:** 92111 **E-mail Address:** samw@nasland.com

**6. Historical Resources/Lead Hazard Prevention and Control (not required for roof mounted electric-photovoltaic permits, deferred fire approvals, or completion of expired permit approvals) -**  
a. Year constructed for all structures on project site: 04/15/1961  
b. HRB Site # and/or historic district if property is designated or in a historic district (if none write N/A): N/A  
c. Does the project include any permanent or temporary alterations or impacts to the exterior (cutting-patching-access-repair; roof repair or replacement, windows added-removed-repaired-replaced, etc)?  Yes  No  
d. Does the project include any foundation repair, digging, trenching or other site work?  Yes  No  
I certify that the information above is correct and accurate to the best of my knowledge. I understand that the project will be distributed/reviewed based on the information provided.  
**Print Name:** David Graham **Signature:** **Date:** 03/04/2015

**7. Notice of Violation -** If you have received a Notice of Violation, Civil Penalty Notice and Order, or Stipulated Judgment, a copy must be provided at the time of project submittal. Is there an active code enforcement violation case on this site?  No  Yes, copy attached

**8. Applicant Name:** *Check one*  Property Owner  Authorized Agent of Property Owner  Other Person per M.C. Section 112.0102  
**City of San Diego Successor Agency** **San Diego** **Telephone:** (619) 533-7113 **Fax:** (619) 236-9148  
**Address:** 401 B Street, Suite 400 **City:** San Diego **State:** CA **Zip Code:** 92101 **E-mail Address:** sorenson@civicsd.com

**Applicant's Signature:** I certify that I have read this application and state that the above information is correct, and that I am the property owner, authorized agent of the property owner, or other person having a legal right, interest, or entitlement to the use of the property that is the subject of this application (Municipal Code Section 112.0102). I understand that the applicant is responsible for knowing and complying with the governing policies and regulations applicable to the proposed development or permit. The City is not liable for any damages or loss resulting from the actual or alleged failure to inform the applicant of any applicable laws or regulations, including before or during final inspections. City approval of a permit application, including all related plans and documents, is not a grant of approval to violate any applicable policy or regulation, nor does it constitute a waiver by the City to pursue any remedy, which may be available to enforce and correct violations of the applicable policies and regulations. I authorize representatives of the city to enter the above-identified property for inspection purposes. I have the authority and grant City staff and advisory bodies the right to make copies of any plans or reports submitted for review and permit processing for the duration of this project.  
**Signature:** **Date:** 3/13/2015

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Upon request, this information is available in alternative formats for persons with disabilities.

DS-3032 (08-13)

Project Address/Location: Include Building or Suite No.  
101 50th Street, San Diego CA 92102

Project No. For City Use Only

9. Contractor Name: \_\_\_\_\_ Telephone: \_\_\_\_\_ Fax: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_ E-mail Address: \_\_\_\_\_

State License No.: \_\_\_\_\_ License Class: \_\_\_\_\_ City Business Tax No.: (required per SDMC Section 31.0301)

\* Licensed Contractor's Declaration: I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor Signature or authorized agent: \_\_\_\_\_

10. \* Workers' Compensation Declaration: I hereby affirm under penalty of perjury one of the following declarations:

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

I hereby affirm under penalty of perjury one of the following declarations:

- a. I have and will maintain a certificate of consent to self-insure for workers' compensation, issued by the Director of Industrial Relations as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
- b. I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Insurance Carrier: \_\_\_\_\_ Policy No.: \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Name of Agent: \_\_\_\_\_ Phone No.: \_\_\_\_\_

- c. I certify that, in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that, if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_

Contractor, owner, or authorized agent signature: \_\_\_\_\_

11. \* Owner-Builder Declaration: I hereby affirm under penalty of perjury that I am exempt from the Contractors' State License Law for the reason(s) indicated below by the checkmark(s) I have placed next to the applicable item(s). (Section 7031.5, Business and Professions Code: Any city or county that requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for the permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractors' State License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt from licensure and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500).):

- a. I, as owner of the property, or my employees with wages as their sole compensation, will do  all of or  portions of the work, and the structure is not intended or offered for sale (Section 7044, Business and Professions Code: The Contractors' State License Law does not apply to an owner of property who, through employees' or personal effort, builds or improves the property, provided that the improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the Owner-Builder will have the burden of proving that it was not built or improved for the purpose of sale).
- b. I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and contracts for such projects with contractor(s) licensed pursuant to the Contractor's License Law).
- c. I am exempt from licensure under the Contractors' State License Law for the following reason: \_\_\_\_\_

By my signature below I acknowledge that, except for my personal residence in which I must have resided for at least one year prior to completion of the improvements covered by this permit, I cannot legally sell a structure that I have built as an owner-builder if it has not been constructed in its entirety by licensed contractors. I understand that a copy of the applicable law, Section 7044 of the Business and Professions Code, is available upon request when this application is submitted or at the following web site: <http://www.leginfo.ca.gov/calaw.html>.

Print Name: David Graham Date: 03/04/2015

Owner Signature or authorized agent: 

A separate Owner-Builder Verification form (DS-3042) must also be signed by the owner.

12. Construction Lending Agency: I hereby affirm that there is a construction lending agency for the performance of the work for which this permit is issued (Sec. 3097, Civ. C).

Lender's Name: \_\_\_\_\_ Lender's Address: \_\_\_\_\_

\* Required per California State Law, Health & Safety Code Section 18825-29

Part II (Must be completed for all Construction Permits, except Grading and Public Right-of-way)



The City of San Diego

# Waste Management Form - Part I

## Construction & Demolition (C&D) Debris Deposit Program



Required for projects described in Municipal Code §66.0601-66.0610.

**Deposit will be fully refunded if at least 50%\* of ALL debris generated from the project is recycled.** If the minimum required recycling rate is not met, the deposit refund will be prorated. **Deposit refund requests must be accompanied by weigh tickets for ALL debris generated, including all trash, salvage, reuse and recycling, and be submitted within 180 days from final inspection.** Refer to **Information Bulletin 119** for details on acceptable documentation.

**Complete Part I before obtaining a building, combination or demolition permit.**  
**Submit this form and your deposit to the Development Services Department staff at permit issuance.**

### Refundable Party Contact Information:

Name \_\_\_\_\_ Title \_\_\_\_\_ Company \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Phone \_\_\_\_\_ Email \_\_\_\_\_

### Project Information:

Approval/Permit No. \_\_\_\_\_ Project Title \_\_\_\_\_  
Project Address \_\_\_\_\_ Zip \_\_\_\_\_

Project Type:  New Construction  Addition/Alteration  Demolition

Building Type:  Commercial  Residential

Estimated Square Feet \_\_\_\_\_

Estimated Start Date \_\_\_\_/\_\_\_\_/\_\_\_\_

Estimated Completion Date \_\_\_\_/\_\_\_\_/\_\_\_\_

**TO BE FILLED OUT BY DSD STAFF**

**"C&D Deposit" Paid \$ \_\_\_\_\_**

**Invoice # \_\_\_\_\_ Date Paid \_\_\_\_\_**

Fill out the table with *estimated* quantities in tons for each material that will be generated by your project. Note: A + B = C  
Please use the *City Construction and Demolition Debris Conversion Table* if converting from volume to tonnage.

Material Type	A Estimated Salvage, Reuse or Recycle	B Estimated Disposal (Trash)	C Estimated Total Debris Quantity	Hauler	Certified Recycling Facility or Disposal Destination
Asphalt & Concrete					
Brick / Masonry / Tile					
Cabinets, Doors, Fixtures, Windows (circle all that apply)					
Cardboard					
Carpet, Padding / Foam					
Ceiling Tile (acoustic)					
Dirt					
Drywall					
Landscape Debris					
<b>Mixed C&amp;D Debris</b>					
Mixed Inerts					
Roofing Materials					
Scrap Metal					
Stucco					
Unpainted Wood & Pallets					
Garbage / Trash					
Other:					
<b>TOTAL</b>					

To estimate Recycling Rate: (Total A/Total C) x 100 = Recycling %  
**MINIMUM RECYCLING RATE FOR ALL DEBRIS FROM YOUR PROJECT IS CURRENTLY 50%\***

\* Recycling rate is subject to change; check **Information Bulletin 119** for current rate.

C&D debris may contain paint, asbestos, mercury switches, light bulbs, ballasts or other hazardous wastes that require removal prior to disposal.  
The Miramar Landfill cannot accept hazardous waste. For information on waste acceptance at the Miramar Landfill, call (858) 694-7000.



# Waste Management Form - Part II

## Construction & Demolition (C&D) Debris Deposit Program

Required for projects described in Municipal Code §66.0601-66.0610.



**Complete Part II after final inspection.**

**Submit with ALL trash, salvage, reuse and recycling weigh tickets.**

Please refer to **Information Bulletin 119** for details on acceptable documentation.

Send this completed form and all documentation:

**By Mail**

City of San Diego  
Environmental Services Department  
Attn: C&D Diversion Coordinator  
**9601 Ridgehaven Court, Suite 320**  
San Diego, CA 92123-1636

**By Fax**

Attn: C&D Diversion Coordinator  
(858) 492-5089

**By Email**

ESD\_CD@sandiego.gov

**Applicants must submit refund requests within 180 days from project final inspection.** Requests submitted after 180 days will not be eligible for a refund. Refunds will not be issued if all requested information and documentation is not provided. Refunds will be mailed within 45 business days following receipt of all proper forms and documentations. If the minimum required recycling rate specified in Information Bulletin 119 is not met, the deposit refund will be prorated.

**Project Information**

Approval/Permit No. \_\_\_\_\_ Project No. \_\_\_\_\_ Project Title \_\_\_\_\_

Final Inspection Date \_\_\_\_ / \_\_\_\_ / \_\_\_\_ Project Address \_\_\_\_\_

**Affirmation**

Applicant is advised of San Diego Municipal Code section 11.0401(b) which states: "No person willfully shall make a false statement or fail to report any material fact in any application for City license, permit, certificate, employment or other City action under the provisions of the San Diego Municipal Code."

I certify under penalty of perjury under the laws of the State of California that the information provided in and with this form pertains to construction and demolition debris generated only from the project listed in Part I, that I have reviewed the accuracy of the information, and that the information is true and correct to the best of my knowledge and belief.

Name \_\_\_\_\_ Title \_\_\_\_\_ Company \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Payment Information**

Check will be made payable to the Refundable Party identified on the Development Services Department's paid invoice on which the "C&D Deposit" was assessed. Please provide complete mailing address below.

**If payment is to be made to a different party, the Refundable Party must sign in the box below, designate to whom the check will be payable, and provide complete mailing address.**

By signing my name, I _____,	_____	_____
Refundable Party on invoice (print name)	Company	Signature
authorize the refund check to be made payable to: _____		

**Refund Mailing**

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip+4 \_\_\_\_\_

**For more information, please contact the City of San Diego Environmental Services Department:  
(858) 694-7000 or visit [www.recyclingworks.com](http://www.recyclingworks.com)**





# SAN DIEGO REGIONAL HAZARDOUS MATERIALS QUESTIONNAIRE

OFFICE USE ONLY	
RECORD ID #	_____
HHMBP #	_____
BP DATE	____/____/____

Business Name	Business Contact	Telephone #		
Project Address	City	State	Zip Code	APN#
Mailing Address	City	State	Zip Code	Plan File#
Project Contact	Telephone #			

The following questions represent the facility's activities, NOT the specific project description.

**PART I: FIRE DEPARTMENT – HAZARDOUS MATERIALS DIVISION: OCCUPANCY CLASSIFICATION:** (not required for projects within the City of San Diego); Indicate by circling the item, whether your business will use, process, or store any of the following hazardous materials. If any of the items are circled, applicant must contact the Fire Protection Agency with jurisdiction prior to plan submittal.

- Occupancy Rating:**      **Facility's Square Footage** (including proposed project):
- |                                  |                       |                                     |                          |
|----------------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Explosive or Blasting Agents  | 5. Organic Peroxides  | 9. Water Reactives                  | 13. Corrosives           |
| 2. Compressed Gases              | 6. Oxidizers          | 10. Cryogenics                      | 14. Other Health Hazards |
| 3. Flammable/Combustible Liquids | 7. Pyrophorics        | 11. Highly Toxic or Toxic Materials | 15. None of These.       |
| 4. Flammable Solids              | 8. Unstable Reactives | 12. Radioactives                    |                          |

**PART II: SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH – HAZARDOUS MATERIALS DIVISION (HMD):** If the answer to any of the questions is yes, applicant must contact the County of San Diego Hazardous Materials Division, 5500 Overland Avenue, Suite 170, San Diego, CA 92123. Call (858) 505-6700 prior to the issuance of a building permit.

<b>FEES ARE REQUIRED.</b>	Project Completion Date:	Expected Date of Occupancy: (for new construction or remodeling projects)	<input type="checkbox"/> CalARP Exempt Date / Initials
1. <input type="checkbox"/> YES <input type="checkbox"/> NO	Is your business listed on the reverse side of this form? (check all that apply).		<input type="checkbox"/> CalARP Required Date / Initials
2. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business dispose of Hazardous Substances or Medical Waste in any amount?		<input type="checkbox"/> CalARP Complete Date / Initials
3. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business store or handle Hazardous Substances in quantities greater than or equal to 55 gallons, 500 pounds and/or 200 cubic feet?		
4. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business store or handle carcinogens/reproductive toxins in any quantity?		
5. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business use an existing or install an underground storage tank?		
6. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business store or handle Regulated Substances (CalARP)?		
7. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business use or install a Hazardous Waste Tank System (Title 22, Article 10)?		
8. <input type="checkbox"/> YES <input type="checkbox"/> NO	Will your business store petroleum in tanks or containers at your facility with a total facility storage capacity equal to or greater than 1,320 gallons? (California's Aboveground Petroleum Storage Act).		

**PART III: SAN DIEGO COUNTY AIR POLLUTION CONTROL DISTRICT (APCD):** If the answer to Question #1 below is no or the answer to any of the Questions #2-5 is yes, applicant must contact the APCD at 10124 Old Grove Road, San Diego, CA 92131-1649 or telephone (858) 586-2600 prior to the issuance of a building or demolition permit. If the answer to questions #4 or #5 is yes, applicant must also submit an asbestos notification form to the APCD at least 10 working days prior to commencing demolition or renovation. (Some residential projects may be exempt from the notification requirements. Contact the APCD for more information.)

- |   |  |
|---|--|
| 1. <input type="checkbox"/> YES <input type="checkbox"/> NO | Has a survey been performed to determine the presence of Asbestos Containing Materials?  |
| 2. <input type="checkbox"/> YES <input type="checkbox"/> NO | Will the subject facility or construction activities include operations or equipment that emit or are capable of emitting an air contaminant? (See the APCD factsheet at <a href="http://www.sdapcd.org/info/facts/permits.pdf">http://www.sdapcd.org/info/facts/permits.pdf</a> , and the list of typical equipment requiring an APCD permit on the reverse side of this form. Contact APCD if you have any questions). |
| 3. <input type="checkbox"/> YES <input type="checkbox"/> NO | (ANSWER ONLY IF QUESTION 1 IS YES) Will the subject facility be located within 1,000 feet of the outer boundary of a school (K through 12)? (Search the California School Directory at <a href="http://www.cde.ca.gov/re/sd/">http://www.cde.ca.gov/re/sd/</a> for public and private schools or contact the appropriate school district).   |
| 4. <input type="checkbox"/> YES <input type="checkbox"/> NO | Will there be renovation that involves handling of any friable asbestos materials, or disturbing any material that contains non-friable asbestos?  |
| 5. <input type="checkbox"/> YES <input type="checkbox"/> NO | Will there be demolition involving the removal of a load supporting structural member?   |

Briefly describe business activities:	Briefly describe proposed project:
---------------------------------------	------------------------------------

I declare under penalty of perjury that to the best of my knowledge and belief the responses made herein are true and correct.

_____ Name of Owner or Authorized Agent	_____ Signature of Owner or Authorized Agent	____/____/____ Date
--	---	------------------------

**FOR OFFICIAL USE ONLY:**

FIRE DEPARTMENT OCCUPANCY CLASSIFICATION: \_\_\_\_\_

BY: \_\_\_\_\_ DATE: \_\_\_\_/\_\_\_\_/\_\_\_\_

EXEMPT OR NO FURTHER INFORMATION REQUIRED		RELEASED FOR BUILDING PERMIT BUT NOT FOR OCCUPANCY		RELEASED FOR OCCUPANCY	
COUNTY-HMD*	APCD	COUNTY-HMD	APCD	COUNTY-HMD	APCD

\*A stamp in this box **only** exempts businesses from completing or updating a Hazardous Materials Business Plan. Other permitting requirements may still apply.  
 Former Valencia Park Library (101 50th Street) Demolition  
 HM 9171 (03/14) Appendix E – Building Demolition Exhibits, City Forms & Reference Documents Volume 1 of 2 (Rev. July 2013) County of San Diego – DEH – Hazardous Materials Division 270 | Page

**LIST OF BUSINESSES WHICH REQUIRE REVIEW AND APPROVAL FROM THE COUNTY OF SAN DIEGO  
DEPARTMENT OF ENVIRONMENTAL HEALTH – HAZARDOUS MATERIALS DIVISION**

Check all that apply:

**AUTOMOTIVE**

- Battery Manufacturing/Recycling
- Boat Yard
- Car Wash
- Dealership Maintenance/Painting
- Machine Shop
- Painting
- Radiator Shop
- Rental Yard Equipment
- Repair/Preventive Maintenance
- Spray Booth
- Transportation Services
- Wrecking/Recycling

**CHEMICAL HANDLING**

- Agricultural supplier/distributor
- Chemical Manufacturer
- Chemical Supplier/Distributor
- Coatings/Adhesive
- Compressed Gas Supplier/Distributor
- Dry Cleaning
- Fiberglass/Resin Application
- Gas Station
- Industrial Laundry
- Laboratory
- Laboratory Supplier/Distributor
- Oil and Fuel Bulk Supply
- Pesticide Operator/Distributor

**CHEMICAL HANDLING**

- Photographic Processing
- Pool Supplies/Maintenance
- Printing/Blue Printing
- Road Coatings
- Swimming Pool
- Toxic Gas Handler
- Toxic Gas Manufacturer

**METAL WORKING**

- Anodizing
- Chemical Milling/Etching
- Finish-Coating/Painting
- Flame Spraying
- Foundry
- Machine Shop-Drilling/Lathes/Mills
- Metal Plating
- Metal Prepping/Chemical Coating
- Precious Metal Recovery
- Sand Blasting/Grinding
- Steel Fabricator
- Wrought Iron Manufacturing

**AEROSPACE**

- Aerospace Industry
- Aircraft Maintenance
- Aircraft Manufacturing

**OTHERS AND MISCELLANEOUS**

- Asphalt Plant
- Biotechnology/Research
- Chiropractic Office
- Co-Generation Plant
- Dental Clinic/Office
- Dialysis Center
- Emergency Generator
- Frozen Food Processing Facility
- Hazardous Waste Hauler
- Hospital/Convalescent Home
- Laboratory/Biological Lab
- Medical Clinic/Office
- Nitrous Oxide (NO<sub>2</sub>) Control System
- Pharmaceuticals
- Public Utility
- Refrigeration System
- Rock Quarry
- Ship Repair/Construction
- Telecommunications Cell Site
- Veterinary Clinic/Hospital
- Wood/Furniture Manufacturing/Refinishing

**ELECTRONICS**

- Electronic Assembly/Sub-Assembly
- Electronic Components Manufacturing
- Printed Circuit Board Manufacturing

NOTE: THE ABOVE LIST INCLUDES BUSINESSES, WHICH TYPICALLY USE, STORE, HANDLE, AND DISPOSE OF HAZARDOUS SUBSTANCES. ANY BUSINESS NOT INCLUDED ON THIS LIST, WHICH HANDLES, USES OR DISPOSES OF HAZARDOUS SUBSTANCES MAY STILL REQUIRE HAZARDOUS MATERIALS DIVISION (HMD) REVIEW OF BUSINESS PLANS. FOR MORE INFORMATION CALL (858) 505-6880.

**LIST OF AIR POLLUTION CONTROL DISTRICT PERMIT CATEGORIES**

Businesses, which include any of the following operations or equipment, will require clearance from the Air Pollution Control District.

**CHEMICAL**

- 47 – Organic Gas Sterilizers
- 32 – Acid Chemical Milling
- 33 – Can & Coil Manufacturing
- 44 – Evaporators, Dryers & Still Processing Organic Materials
- 24 – Dry Chemical Mixing & Detergent Spray Towers
- 35 – Bulk Dry Chemicals Storage
- 55 – Chrome Electroplating Tanks

**COATINGS & ORGANIC SOLVENTS**

- 27 – Coating & Painting
- 37 – Plasma Arc & Ceramic Deposition Spray Booths
- 38 – Paint, Stain & Ink Mfg
- 27 – Printing
- 27 – Polyester Resin/Fiberglass Operations

**METALS**

- 18 – Metal Melting Devices
- 19 – Oil Quenching & Salt Baths
- 32 – Hot Dip Galvanizing
- 39 – Precious Metals Refining

**ORGANIC COMPOUND MARKETING**

**(GASOLINE, ETC)**

- 25 – Gasoline & Alcohol Bulk Plants & Terminals
- 25 – Intermediate Refuelers
- 26 – Gasoline & Alcohol Fuel Dispensing

**COMBUSTION**

- 34 – Piston Internal – Combustion Engines
- 13 – Boilers & Heaters (1 million BTU/hr or larger)
- 14 – Incinerators & Crematories
- 15 – Burn Out Ovens
- 16 – Core Ovens
- 20 – Gas Turbines, and Turbine Test Cells & Stands
- 48 – Landfill and/or Digester Gas Flares

**ELECTRONICS**

- 29 – Automated Soldering
- 42 – Electronic Component Mfg

**FOOD**

- 12 – Fish Canneries
- 12 – Smoke Houses
- 50 – Coffee Roasters
- 35 – Bulk Flour & Powered Sugar Storage

**SOLVENT USE**

- 28 – Vapor & Cold Degreasing
- 30 – Solvent & Extract Driers
- 31 – Dry Cleaning

**ROCK AND MINERAL**

- 04 – Hot Asphalt Batch Plants
- 05 – Rock Drills
- 06 – Screening Operations
- 07 – Sand Rock & Aggregate Plants
- 08 – Concrete Batch, CTB, Concrete Mixers, Mixers & Silos
- 10 – Brick Manufacturing

**OTHER**

- 01 – Abrasive Blasting Equipment
- 03 – Asphalt Roofing Kettles & Tankers
- 46 – Reverse Osmosis Membrane Mfg
- 51 – Aqueous Waste Neutralization
- 11 – Tire Buffers
- 17 – Brake Debonders
- 23 – Bulk Grain & Dry Chemical Transfer & Storage
- 45 – Rubber Mixers
- 21 – Waste Disposal & Reclamation Units
- 36 – Grinding Booths & Rooms
- 40 – Asphalt Pavement Heaters
- 43 – Ceramic Slip Casting
- 41 – Perlite Processing
- 40 – Cooling Towers – Registration Only
- 91 – Fumigation Operations
- 56 – WWTP (1 million gal/day or larger) & Pump Station

NOTE: OTHER EQUIPMENT NOT LISTED HERE THAT IS CAPABLE OF EMITTING AIR CONTAMINANTS MAY REQUIRE AN AIR POLLUTION CONTROL DISTRICT PERMIT. IF THERE ARE ANY QUESTIONS, CONTACT THE AIR POLLUTION CONTROL DISTRICT AT (858) 586-2600.



City of San Diego  
Development Services  
1222 First Ave., MS-302  
San Diego, CA 92101  
(619) 446-5000

THE CITY OF SAN DIEGO

# Storm Water Requirements Applicability Checklist

FORM  
**DS-560**  
JANUARY 2011

Project Address: 101 50th Street, San Diego, CA 92102	Project Number (for City Use Only):
--	-------------------------------------

**SECTION 1. Permanent Storm Water BMP Requirements:**

Additional information for determining the requirements is found in the Storm Water Standards Manual.

**Part A: Determine if Exempt from Permanent Storm Water BMP Requirements.**

Projects that are considered maintenance, or are otherwise not categorized as "development projects" or "redevelopment projects" according to the Storm Water Standards manual are not required to install permanent storm water BMPs. If "Yes" is checked for any line in Part A, proceed to Part C and check the box labeled "Exempt Project." If "No" is checked for all of the lines, continue to Part B.

- |   |   |
|---|---|
| 1. The project is not a Development Project as defined in the <u>Storm Water Standards Manual</u> ; for example habitat restoration projects, and construction inside an existing building.   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. The project is only the construction of underground or overhead linear utilities.  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. The project qualifies as routine maintenance (replaces or renews existing surface materials because of failed or deteriorating condition). This includes roof replacement, pavement spot repairs and resurfacing treatments such as asphalt overlay or slurry seal, and replacement of damaged pavement. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4. The project only installs sidewalks, bike lanes, or pedestrian ramps on an existing road, and does not change sheet flow condition to a concentrated flow condition.   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

**Part B: Determine if Subject to Priority Development Project Requirements.**

Projects that match one of the definitions below are subject to additional requirements including preparation of a Water Quality Technical Report.

If "Yes" is checked for any line in Part B, proceed to Part C and check the box labeled "Priority Development Project." If "No" is checked for all of the lines, continue to Part C and check the box labeled "Standard Development Project."

- |   |   |
|---|---|
| 1. Residential development of 10 or more units.   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2. Commercial development and similar non-residential development greater than one acre. Hospitals; laboratories and other medical facilities; educational institutions; recreational facilities; municipal facilities; commercial nurseries; multi-apartment buildings; car wash facilities; mini-malls and other business complexes; shopping malls; hotels; office buildings; public warehouses; automotive dealerships; and other light industrial facilities.  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3. Heavy industrial development greater than one acre. Manufacturing plants, food processing plants, metal working facilities, printing plants, and fleet storage areas.  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 4. Automotive repair shop. Facilities categorized in any one of Standard Industrial Classification (SIC) codes 5013, 5014, 5541, 7532-7534, or 7536-7539.   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 5. Restaurant. Facilities that sells prepared foods and drinks for consumption, including stationary lunch counters and refreshment stands selling prepared foods and drinks for immediate consumption (SIC code 5812), and where the land area for development is greater than 5,000 square feet.  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 6. Hillside development greater than 5,000 square feet. Development that creates 5,000 square feet of impervious surface and is located in an area with known erosive soil conditions and where the development will grade on any natural slope that is twenty-five percent or greater.   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7. Water Quality Sensitive Area. Development located within, directly adjacent to, or discharging directly to a Water Quality Sensitive Area (as depicted in Appendix C) in which the project either creates 2,500 square feet of impervious surface on a proposed project site or increases the area of imperviousness of a proposed project site to 10% or more of its naturally occurring condition. "Directly adjacent" is defined as being situated within 200 feet of the Water Quality Sensitive Area. "Discharging directly to" is defined as outflow from a drainage conveyance system that is composed entirely of flows from the subject development or redevelopment site, and not commingled with flows from adjacent lands. | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 8. Parking lot with a minimum area of 5,000 square feet or a minimum of 15 parking spaces and potential exposure to urban runoff (unless it meets the exclusion for parking lot reconfiguration on line 1.1).   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |

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Upon request, this information is available in alternative formats for persons with disabilities.

DS-560 (01-25-11)

9. **Street, road, highway, or freeway.** New paved surface in excess of 5,000 square feet used for the transportation of automobiles, trucks, motorcycles, and other vehicles (unless it meets the exclusion for road reconfiguration on line 11).  Yes  No
10. **Retail Gasoline Outlet (RGO)** that is: (a) 5,000 square feet or more or (b) has a projected Average Daily Traffic (ADT) of 100 or more vehicles per day.  Yes  No
11. **Significant Redevelopment;** project installs and/or replaces 5,000 square feet or more of impervious surface and the existing site meets at least one of the categories above. The project is not considered Significant Redevelopment if reconfiguring an existing road or parking lot without a change to the footprint of an existing developed road or parking lot. The existing footprint is defined as the outside curb or the outside edge of pavement when there is no curb.  Yes  No
12. **Other Pollutant Generating Project.** Any other project not covered in the categories above, that disturbs one acre or more and is not excluded by the criteria below.  Yes  No
- Projects creating less than 5,000 sf of impervious surface and where added landscaping does not require regular use of pesticides and fertilizers, such as slope stabilization using native plants. Calculation of the square footage of impervious surface need not include linear pathways that are for infrequent vehicle use, such as emergency maintenance access or bicycle pedestrian use, if they are built with pervious surfaces or if they sheet flow to surrounding pervious surfaces.*

**Part C: Select the appropriate category based on the outcome of Parts A & B.**

1. If "Yes" is checked for any line in Part A, then check this box. Continue to Section 2.  Exempt Project
2. If "No" is checked for all lines in Part A, and Part B, then check this box. Continue to Section 2.  Standard Development Project
3. If "No" is checked for all lines in Part A, and "Yes" is checked for at least one of the lines in Part B, then check this box. Continue to Section 2. See the Storm Water Standards Manual for guidance on determining if Hydromodification Management Plan requirements apply.  Priority Development Project

**SECTION 2. Construction Storm Water BMP Requirements:**  
For all projects, complete Part D. If "Yes" is checked for any line in Part D, then continue to Part E.

**Part D: Determine Construction Phase Storm Water Requirements.**

1. Is the project subject to California's statewide General NPDES Permit for Storm Water Discharges Associated with Construction Activities? (See State Water Resources Control Board Order No. 2009-0009-DWQ for rules on enrollment)  Yes  No
2. Does the project propose grading or soil disturbance?  Yes  No
3. Would storm water or urban runoff have the potential to contact any portion of the construction area, including washing and staging areas?  Yes  No
4. Would the project use any construction materials that could negatively affect water quality if discharged from the site (such as, paints, solvents, concrete, and stucco)?  Yes  No
5. Check this box if "Yes" is checked for line 1. Continue to Part E.  SWPPP Required
6. Check this box if "No" is checked for line 1, and "Yes" is checked for any line 2-4. Continue to Part E.  WPCP Required
7. Check this box if "No" is checked for all lines 1-4. Part E does not apply.  No Document Required

**Part E: Determine Construction Site Priority**

This prioritization must be completed with this form, noted on the plans, and included in the SWPPP or WPCP. The City reserves the right to adjust the priority of the projects both before and during construction. [Note: The construction priority does NOT change construction BMP requirements that apply to projects; rather, it determines the frequency of inspections that will be conducted by City staff.]

- 1. High Priority**  
 a) Projects where the site is 50 acres or more and grading will occur during the wet season  
 b) Projects 1 acre or more and tributary to an impaired water body for sediment (e.g., Peñasquitos watershed)  
 c) Projects 1 acre or more within or directly adjacent to or discharging directly to a coastal lagoon or other receiving water within a Water Quality Sensitive Area.  
 d) Projects subject to phased grading or advanced treatment requirements.
- 2 Medium Priority.** Projects 1 acre or more but not subject to a high priority designation.
- 3 Low Priority.** Projects requiring a Water Pollution Control Plan but not subject to a medium or high priority designation.

Name of Owner or Agent (Please Print):

City of San Diego Successor Agency

Signature:



Title:

Deputy Chief Operating Officer

Date:

03/04/2015



City of San Diego  
 Development Services  
 1222 First Ave., MS-302  
 San Diego, CA 92101  
 (619) 446-5000

# "Minor" Water Pollution Control Plan (MWPCP)

FORM  
**DS-570**  
 OCTOBER 2012

## MWPCP REQUIREMENTS

The City requires a Water Pollution Control Plan (WPCP), a Minor Water Pollution Control Plan (MWPCP) or a Storm Water Pollution Prevention Plan (SWPPP), for all construction projects that have potential for storm water pollution. Some construction project types, such as interior plumbing, electrical and mechanical work, may be considered exempt. The appropriate plan is determined by the following guidelines:

1. Any project subject to the Construction General Permit (CGP) (typically projects with 1 acre or more of ground disturbance) requires a SWPPP and may not utilize a WPCP or MWPCP. If coverage under the CGP (Permit which requires a SWPPP) is not required for the project, see below:
2. The following approval types (see Form DS-3032) require a WPCP: Grading, Public Right-of-Way, and Demolition/Removal. Exceptions may be made allowing use of this MWPCP for minor work.
3. The following approval types (see Form DS-3032) require a WPCP whenever a submittal for Drainage and Grades review is required. Exceptions may be made allowing use of this MWPCP for minor work.
4. This MWPCP may be utilized for projects that create less than 5,000sf of ground disturbance and have less than a 5ft elevation differential over the entire project area.

**NOTE:** It is the responsibility of the project owner to ensure that all construction activities comply with local and state regulations, including San Diego Municipal Code Sect. 43.09. The guidance and template provided here is for the applicants' convenience and do not alleviate responsibility on part of the project owner to determine the appropriate level of BMP planning and implementation to prevent pollutant discharges.

## STEP 1. IDENTIFY RELEVANT PROJECT INFORMATION

Applicant Name: Nasland Engineering	Contact Name: Samuel Waisbord	Project Number: 112-103.1
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### Contact Information:

Mailing Address: 4740 Ruffner Street	City: San Diego	State: CA	Zip Code: 92111
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Telephone No.: (858) 292-7770	E-mail Address: samw@nasland.com
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### Project Information:

Address: San Diego	City: San Diego	State: CA	Zip Code: 92113
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APN: 548-150-07	Permit Application Number:
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### Brief Project Description:

The project proposes to demolish an existing 4000 sq. ft. building for future development. The project will install fiber rolls and gravel bags to prevent sediment runoff.

Improvements (overall square footage): 4000	Estimate Project Start Date:	Estimate Project Finish Date:
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Total Lot Size in ft <sup>2</sup> : 10950	Estimated Amount of Disturbed Differential Acreage: 42.92%	Estimate Elevation over entire Project Area: 180
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 Upon request, this information is available in alternative formats for persons with disabilities.

DS-570 (10-12)

**STEP 2: IDENTIFY CONSTRUCTION STORM WATER BMPs**

Unprotected construction sites have the potential to discharge sediment and other pollutants into local waterways. All construction projects are required to reduce pollution to the maximum extent practicable by implementing best management practices (BMPs). Sections 5 of the Storm Water Standards Manual outline the requirements for Construction Stormwater BMPs. There are five categories:

1. Erosion control practices
2. Velocity reduction
3. Sediment control practices
4. Offsite sediment tracking control
5. General site and materials management

BMPs from each of the five categories must be used together as a system in order to prevent potential discharges.

If you answer "Yes" to any of the questions below, your project is subject to Table 1 on the following page (Minimum Required Standard Construction Stormwater BMPs). As noted in the table, please select at least the minimum number of required BMPs, or as many as are feasible for your project. If no BMP is selected, an explanation must be given in the box provided. The following questions are intended to aid in determining construction BMP requirements for your project, please check box either "Yes" or "No".

- |     |  |   |
|-----|--|---|
| 1.  | Will there be soil disturbing activities that will result in exposed soil areas? (This includes minor grading and trenching.)<br>Reference Table items A   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 2.  | Will there be asphalt paving, including patching?<br>Reference Table 1 items C and E   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 3.  | Will there be slurries from mortar mixing, coring, or concrete saw cutting?<br>Reference Table 1 items C and E   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.  | Will there be solid wastes from concrete demolition and removal, wall construction, or form work?<br>Reference Table 1 items C and E   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.  | Will there be stockpiling (soil, compost, asphalt, concrete, solid waste) for over 24 hours?<br>Reference Table 1 items C and E  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.  | Will there be dewatering operations?<br>Reference Table 1 items B and C  | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |
| 7.  | Will there be temporary on-site storage of construction materials, including mortar mix, raw landscaping and soil stabilization materials, treated lumber, rebar, and plated metal fencing materials?<br>Reference Table 1 items D and E | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.  | Will trash or solid waste product be generated from this project?<br>Reference Table 1 item E  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.  | Will construction equipment be stored on site (e.g.: fuels, oils, trucks, etc.)?<br>Reference Table 1 item E   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| 10. | Will Portable Sanitary Services ("Porta-potty") be used on the site?<br>Reference Table 1 item E   | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |

**TABLE 1**  
**MINIMUM REQUIRED STANDARD CONSTRUCTION STORMWATER BMPs**  
 (Source: CALTRANS Storm Water Quality Handbooks)

Minimum Required Best Management Practices	CALTRANS Stormwater Handbook Detail	Check at least one BMP from each section below	If your project requires no BMP from any of the sections below, please explain within space provided
<b>A. Select Erosion Control Method</b>			
Vegetation Stabilization Planting (Summer)	SS-2, SS-4	<input type="checkbox"/>	No steep slopes on project site. Most of lot is covered in asphalt.
Hydraulic Stabilization Hydroseeding (Summer)	SS-4	<input type="checkbox"/>	
Bonded Fiber Matrix or Stabilized Fiber Matrix (Winter)	SS-3	<input type="checkbox"/>	
Physical Stabilization Erosion Control Blanket (Winter)	SS-7	<input type="checkbox"/>	
Lot Perimeter Protection Detail	SC-2	<input type="checkbox"/>	
Mulch, Straw, Woodchips, Soil Application	SS-6, SS-8	<input type="checkbox"/>	
<b>B. If Runoff or Dewatering Operation is concentrated, velocity must be controlled using an energy dissipater</b>			
Energy Dissipater Outlet Protection	SS-10	<input type="checkbox"/>	No outlet protection required.
<b>C. Select Sediment Control method for all disturbed areas (Chose at least one)</b>			
Silt Fence	SC-1	<input type="checkbox"/>	
Fiber Rolls (Straw Wattles)	SC-5	<input checked="" type="checkbox"/>	
Gravel Bags	SC-6, SC-8	<input type="checkbox"/>	
Dewatering Filtration	NS-2	<input type="checkbox"/>	
Storm Drain Inlet Protection	SC-10	<input type="checkbox"/>	
<b>D. Select method for preventing offsite tracking of sediment (choose at least one)</b>			
Stabilized Construction Entrance	TC-1	<input checked="" type="checkbox"/>	
Entrance/Exit Tire Wash	TC-3	<input type="checkbox"/>	
Street Sweeping & Vacuuming	SC-7	<input checked="" type="checkbox"/>	
<b>E. Select the General Site Management BMPs for each waste that will be on site</b>			
Material Delivery & Storage	WM-1	<input type="checkbox"/>	Dispose all demolition debris in approved locations.
Spill Prevention & Control	WM-4	<input type="checkbox"/>	
Concrete Waste Management	WM-8	<input checked="" type="checkbox"/>	
Solid Waste Management	WM-5	<input checked="" type="checkbox"/>	
Sanitary Waste Management	WM-9	<input checked="" type="checkbox"/>	
Hazardous Waste Management	WM-6	<input checked="" type="checkbox"/>	

**The applicant must print and sign the following certification before a permit will be issued.**

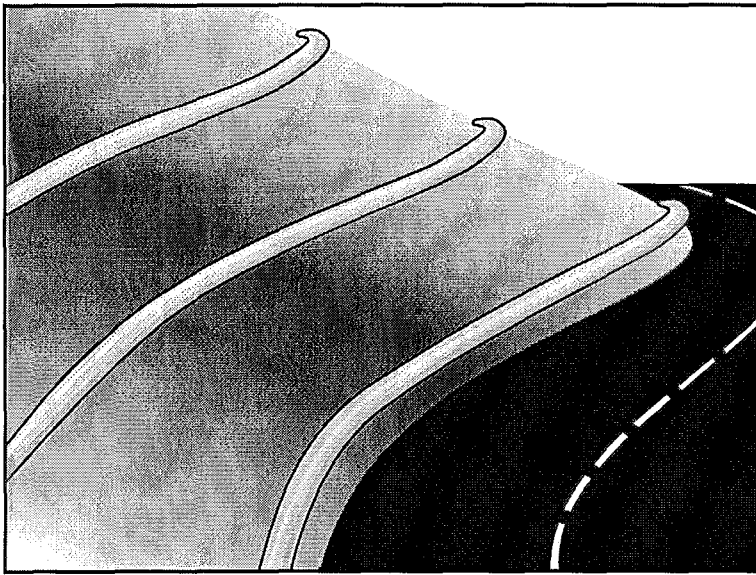
I have read and understand that the City of San Diego has adopted minimum requirements for managing urban runoff, including storm water, from construction and land development activities. I certify that the BMPs selected on this form will be implemented to minimize the potentially negative impacts of this project's construction and land development activities on water quality. I further agree to install, monitor, maintain, or revise the selected BMPs to ensure their effectiveness. I also understand that non-compliance with the City's Storm Water Standards may result in enforcement by the City, including fines, cease and desist orders, or other actions.

Signature: \_\_\_\_\_



Date: \_\_\_\_\_

03/04/15



## Description and Purpose

A fiber roll consists of straw, coir, or other biodegradable materials bound into a tight tubular roll wrapped by netting, which can be photodegradable or natural. Additionally, gravel core fiber rolls are available, which contain an imbedded ballast material such as gravel or sand for additional weight when staking the rolls are not feasible (such as use as inlet protection). When fiber rolls are placed at the toe and on the face of slopes along the contours, they intercept runoff, reduce its flow velocity, release the runoff as sheet flow, and provide removal of sediment from the runoff (through sedimentation). By interrupting the length of a slope, fiber rolls can also reduce sheet and rill erosion until vegetation is established.

## Suitable Applications

Fiber rolls may be suitable:

- Along the toe, top, face, and at grade breaks of exposed and erodible slopes to shorten slope length and spread runoff as sheet flow.
- At the end of a downward slope where it transitions to a steeper slope.
- Along the perimeter of a project.
- As check dams in unlined ditches with minimal grade.
- Down-slope of exposed soil areas.
- At operational storm drains as a form of inlet protection.

## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- Primary Category
- Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

- SE-1 Silt Fence
- SE-6 Gravel Bag Berm
- SE-8 Sandbag Barrier
- SE-14 Biofilter Bags





- Around temporary stockpiles.

## Limitations

- Fiber rolls are not effective unless trenched in and staked.
- Not intended for use in high flow situations.
- Difficult to move once saturated.
- If not properly staked and trenched in, fiber rolls could be transported by high flows.
- Fiber rolls have a very limited sediment capture zone.
- Fiber rolls should not be used on slopes subject to creep, slumping, or landslide.
- Rolls typically function for 12-24 months depending upon local conditions.

## Implementation

### *Fiber Roll Materials*

- Fiber rolls should be prefabricated.
- Fiber rolls may come manufactured containing polyacrylamide (PAM), a flocculating agent within the roll. Fiber rolls impregnated with PAM provide additional sediment removal capabilities and should be used in areas with fine, clayey or silty soils to provide additional sediment removal capabilities. Monitoring may be required for these installations.
- Fiber rolls are made from weed free rice straw, flax, or a similar agricultural material bound into a tight tubular roll by netting.
- Typical fiber rolls vary in diameter from 9 in. to 20 in. Larger diameter rolls are available as well.

### *Installation*

- Locate fiber rolls on level contours spaced as follows:
  - Slope inclination of 4:1 (H:V) or flatter: Fiber rolls should be placed at a maximum interval of 20 ft.
  - Slope inclination between 4:1 and 2:1 (H:V): Fiber Rolls should be placed at a maximum interval of 15 ft. (a closer spacing is more effective).
  - Slope inclination 2:1 (H:V) or greater: Fiber Rolls should be placed at a maximum interval of 10 ft. (a closer spacing is more effective).
- Prepare the slope before beginning installation.
- Dig small trenches across the slope on the contour. The trench depth should be  $\frac{1}{4}$  to  $\frac{1}{3}$  of the thickness of the roll, and the width should equal the roll diameter, in order to provide area to backfill the trench.

- It is critical that rolls are installed perpendicular to water movement, and parallel to the slope contour.
- Start building trenches and installing rolls from the bottom of the slope and work up.
- It is recommended that pilot holes be driven through the fiber roll. Use a straight bar to drive holes through the roll and into the soil for the wooden stakes.
- Turn the ends of the fiber roll up slope to prevent runoff from going around the roll.
- Stake fiber rolls into the trench.
  - Drive stakes at the end of each fiber roll and spaced 4 ft maximum on center.
  - Use wood stakes with a nominal classification of 0.75 by 0.75 in. and minimum length of 24 in.
- If more than one fiber roll is placed in a row, the rolls should be overlapped, not abutted.
- See typical fiber roll installation details at the end of this fact sheet.

## **Removal**

- Fiber rolls can be left in place or removed depending on the type of fiber roll and application (temporary vs. permanent installation). Typically, fiber rolls encased with plastic netting are used for a temporary application because the netting does not biodegrade. Fiber rolls used in a permanent application are typically encased with a biodegradable material and are left in place. Removal of a fiber roll used in a permanent application can result in greater disturbance.
- Temporary installations should only be removed when up gradient areas are stabilized per General Permit requirements, and/or pollutant sources no longer present a hazard. But, they should also be removed before vegetation becomes too mature so that the removal process does not disturb more soil and vegetation than is necessary.

## **Costs**

Material costs for regular fiber rolls range from \$20 - \$30 per 25 ft roll.

Material costs for PAM impregnated fiber rolls range between 7.00-\$9.00 per linear foot, based upon vendor research.

## **Inspection and Maintenance**

- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Repair or replace split, torn, unraveling, or slumping fiber rolls.
- If the fiber roll is used as a sediment capture device, or as an erosion control device to maintain sheet flows, sediment that accumulates in the BMP should be periodically removed

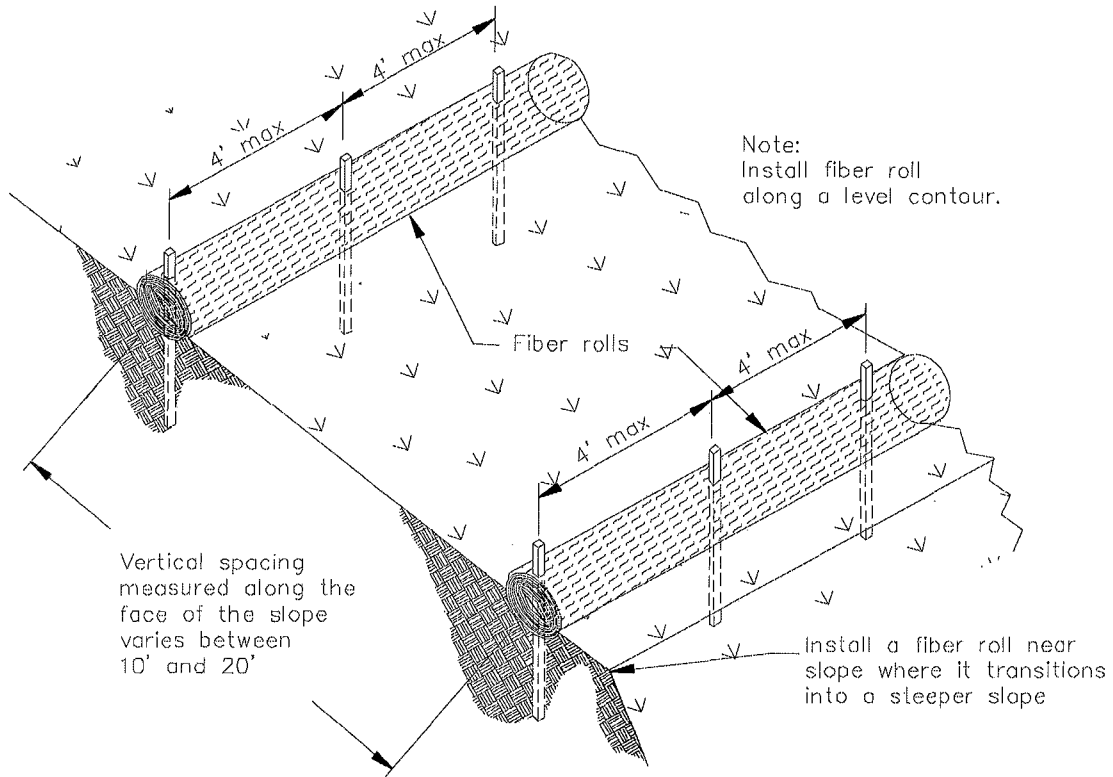
in order to maintain BMP effectiveness. Sediment should be removed when sediment accumulation reaches one-third the designated sediment storage depth.

- If fiber rolls are used for erosion control, such as in a check dam, sediment removal should not be required as long as the system continues to control the grade. Sediment control BMPs will likely be required in conjunction with this type of application.
- Repair any rills or gullies promptly.

## References

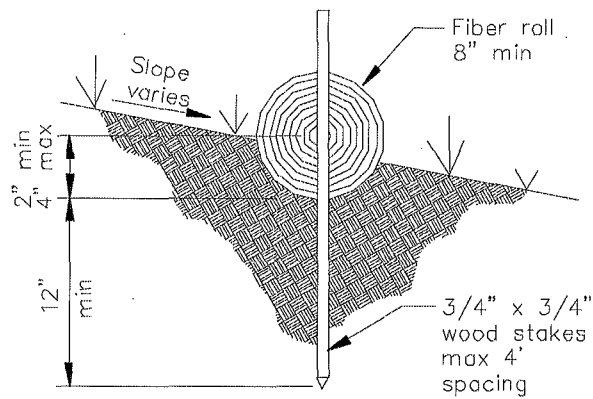
Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Erosion and Sediment Control Manual, Oregon Department of Environmental Quality, February 2005.



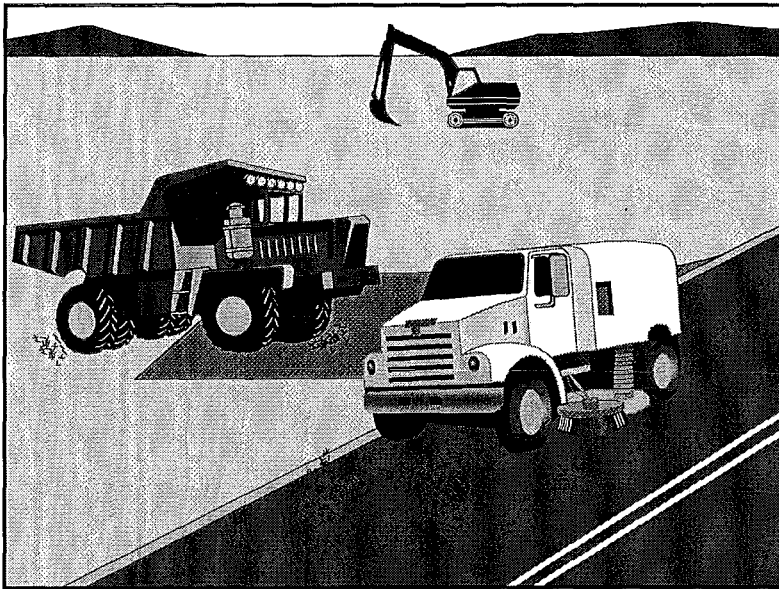
TYPICAL FIBER ROLL INSTALLATION

N.T.S.



ENTRENCHMENT DETAIL

N.T.S.



### Categories

EC	Erosion Control	
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	<input checked="" type="checkbox"/>
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

### Legend:

- Primary Objective
- Secondary Objective

### Description and Purpose

Street sweeping and vacuuming includes use of self-propelled and walk-behind equipment to remove sediment from streets and roadways, and to clean paved surfaces in preparation for final paving. Sweeping and vacuuming prevents sediment from the project site from entering storm drains or receiving waters.

### Suitable Applications

Sweeping and vacuuming are suitable anywhere sediment is tracked from the project site onto public or private paved streets and roads, typically at points of egress. Sweeping and vacuuming are also applicable during preparation of paved surfaces for final paving.

### Limitations

Sweeping and vacuuming may not be effective when sediment is wet or when tracked soil is caked (caked soil may need to be scraped loose).

### Implementation

- Controlling the number of points where vehicles can leave the site will allow sweeping and vacuuming efforts to be focused, and perhaps save money.
- Inspect potential sediment tracking locations daily.
- Visible sediment tracking should be swept or vacuumed on a daily basis.
- Do not use kick brooms or sweeper attachments. These tend to spread the dirt rather than remove it.

### Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	<input checked="" type="checkbox"/>
Metals	
Bacteria	
Oil and Grease	<input checked="" type="checkbox"/>
Organics	

### Potential Alternatives

None



- If not mixed with debris or trash, consider incorporating the removed sediment back into the project

## Costs

Rental rates for self-propelled sweepers vary depending on hopper size and duration of rental. Expect rental rates from \$58/hour (3 yd<sup>3</sup> hopper) to \$88/hour (9 yd<sup>3</sup> hopper), plus operator costs. Hourly production rates vary with the amount of area to be swept and amount of sediment. Match the hopper size to the area and expect sediment load to minimize time spent dumping.

## Inspection and Maintenance

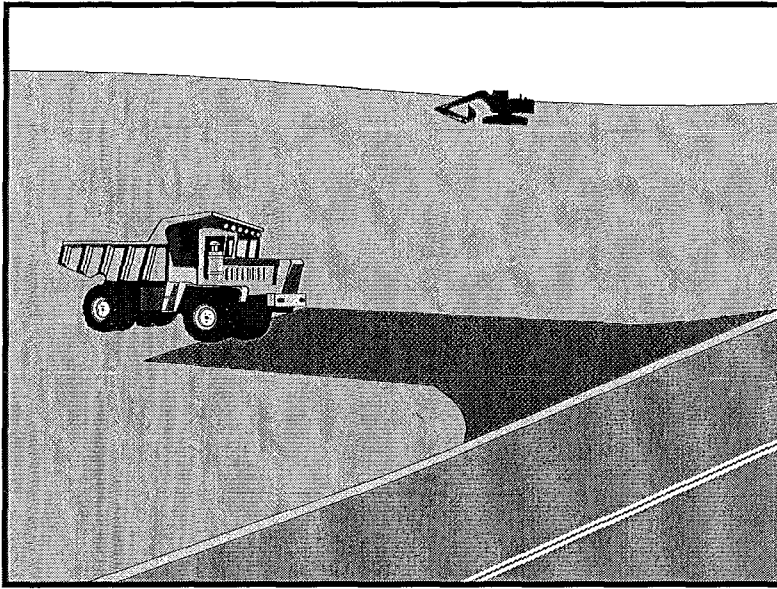
- Inspect BMPs prior to forecast rain, daily during extended rain events, after rain events, weekly during the rainy season, and at two-week intervals during the non-rainy season.
- When actively in use, points of ingress and egress must be inspected daily.
- When tracked or spilled sediment is observed outside the construction limits, it must be removed at least daily. More frequent removal, even continuous removal, may be required in some jurisdictions.
- Be careful not to sweep up any unknown substance or any object that may be potentially hazardous.
- Adjust brooms frequently; maximize efficiency of sweeping operations.
- After sweeping is finished, properly dispose of sweeper wastes at an approved dumpsite.

## References

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Labor Surcharge and Equipment Rental Rates, State of California Department of Transportation (Caltrans), April 1, 2002 – March 31, 2003.

# Stabilized Construction Entrance/Exit TC-1



## Categories

EC	Erosion Control	<input checked="" type="checkbox"/>
SE	Sediment Control	<input checked="" type="checkbox"/>
TC	Tracking Control	<input checked="" type="checkbox"/>
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	

## Legend:

- Primary Objective
- Secondary Objective

## Description and Purpose

A stabilized construction access is defined by a point of entrance/exit to a construction site that is stabilized to reduce the tracking of mud and dirt onto public roads by construction vehicles.

## Suitable Applications

Use at construction sites:

- Where dirt or mud can be tracked onto public roads.
- Adjacent to water bodies.
- Where poor soils are encountered.
- Where dust is a problem during dry weather conditions.

## Limitations

- Entrances and exits require periodic top dressing with additional stones.
- This BMP should be used in conjunction with street sweeping on adjacent public right of way.
- Entrances and exits should be constructed on level ground only.
- Stabilized construction entrances are rather expensive to construct and when a wash rack is included, a sediment trap of some kind must also be provided to collect wash water

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

None



# **Stabilized Construction Entrance/Exit TC-1**

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runoff.

## **Implementation**

### ***General***

A stabilized construction entrance is a pad of aggregate underlain with filter cloth located at any point where traffic will be entering or leaving a construction site to or from a public right of way, street, alley, sidewalk, or parking area. The purpose of a stabilized construction entrance is to reduce or eliminate the tracking of sediment onto public rights of way or streets. Reducing tracking of sediments and other pollutants onto paved roads helps prevent deposition of sediments into local storm drains and production of airborne dust.

Where traffic will be entering or leaving the construction site, a stabilized construction entrance should be used. NPDES permits require that appropriate measures be implemented to prevent tracking of sediments onto paved roadways, where a significant source of sediments is derived from mud and dirt carried out from unpaved roads and construction sites.

Stabilized construction entrances are moderately effective in removing sediment from equipment leaving a construction site. The entrance should be built on level ground. Advantages of the Stabilized Construction Entrance/Exit is that it does remove some sediment from equipment and serves to channel construction traffic in and out of the site at specified locations. Efficiency is greatly increased when a washing rack is included as part of a stabilized construction entrance/exit.

### ***Design and Layout***

- Construct on level ground where possible.
- Select 3 to 6 in. diameter stones.
- Use minimum depth of stones of 12 in. or as recommended by soils engineer.
- Construct length of 50 ft minimum, and 30 ft minimum width.
- Rumble racks constructed of steel panels with ridges and installed in the stabilized entrance/exit will help remove additional sediment and to keep adjacent streets clean.
- Provide ample turning radii as part of the entrance.
- Limit the points of entrance/exit to the construction site.
- Limit speed of vehicles to control dust.
- Properly grade each construction entrance/exit to prevent runoff from leaving the construction site.
- Route runoff from stabilized entrances/exits through a sediment trapping device before discharge.
- Design stabilized entrance/exit to support heaviest vehicles and equipment that will use it.



# **Stabilized Construction Entrance/Exit TC-1**

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- Select construction access stabilization (aggregate, asphaltic concrete, concrete) based on longevity, required performance, and site conditions. Do not use asphalt concrete (AC) grindings for stabilized construction access/roadway.
- If aggregate is selected, place crushed aggregate over geotextile fabric to at least 12 in. depth, or place aggregate to a depth recommended by a geotechnical engineer. A crushed aggregate greater than 3 in. but smaller than 6 in. should be used.
- Designate combination or single purpose entrances and exits to the construction site.
- Require that all employees, subcontractors, and suppliers utilize the stabilized construction access.
- Implement SE-7, Street Sweeping and Vacuuming, as needed.
- All exit locations intended to be used for more than a two-week period should have stabilized construction entrance/exit BMPs.

## **Inspection and Maintenance**

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMPs are under way, inspect weekly during the rainy season and of two-week intervals in the non-rainy season to verify continued BMP implementation.
- Inspect local roads adjacent to the site daily. Sweep or vacuum to remove visible accumulated sediment.
- Remove aggregate, separate and dispose of sediment if construction entrance/exit is clogged with sediment.
- Keep all temporary roadway ditches clear.
- Check for damage and repair as needed.
- Replace gravel material when surface voids are visible.
- Remove all sediment deposited on paved roadways within 24 hours.
- Remove gravel and filter fabric at completion of construction

## **Costs**

Average annual cost for installation and maintenance may vary from \$1,200 to \$4,800 each, averaging \$2,400 per entrance. Costs will increase with addition of washing rack, and sediment trap. With wash rack, costs range from \$1,200 - \$6,000 each, averaging \$3,600 per entrance.

## **References**

Manual of Standards of Erosion and Sediment Control Measures, Association of Bay Area Governments, May 1995.

# **Stabilized Construction Entrance/Exit TC-1**

National Management Measures to Control Nonpoint Source Pollution from Urban Areas, USEPA Agency, 2002.

Proposed Guidance Specifying Management Measures for Sources of Nonpoint Pollution in Coastal Waters, Work Group Working Paper, USEPA, April 1992.

Stormwater Quality Handbooks Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

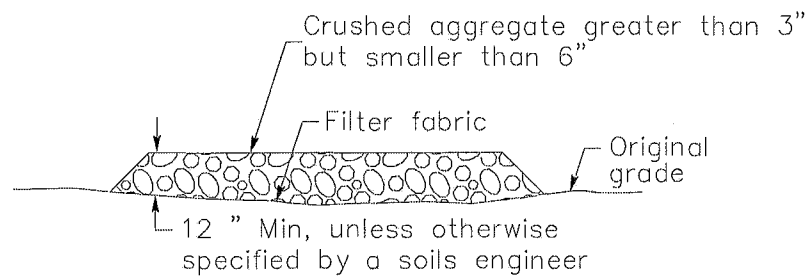
Stormwater Management of the Puget Sound Basin, Technical Manual, Publication #91-75, Washington State Department of Ecology, February 1992.

Virginia Erosion and Sedimentation Control Handbook, Virginia Department of Conservation and Recreation, Division of Soil and Water Conservation, 1991.

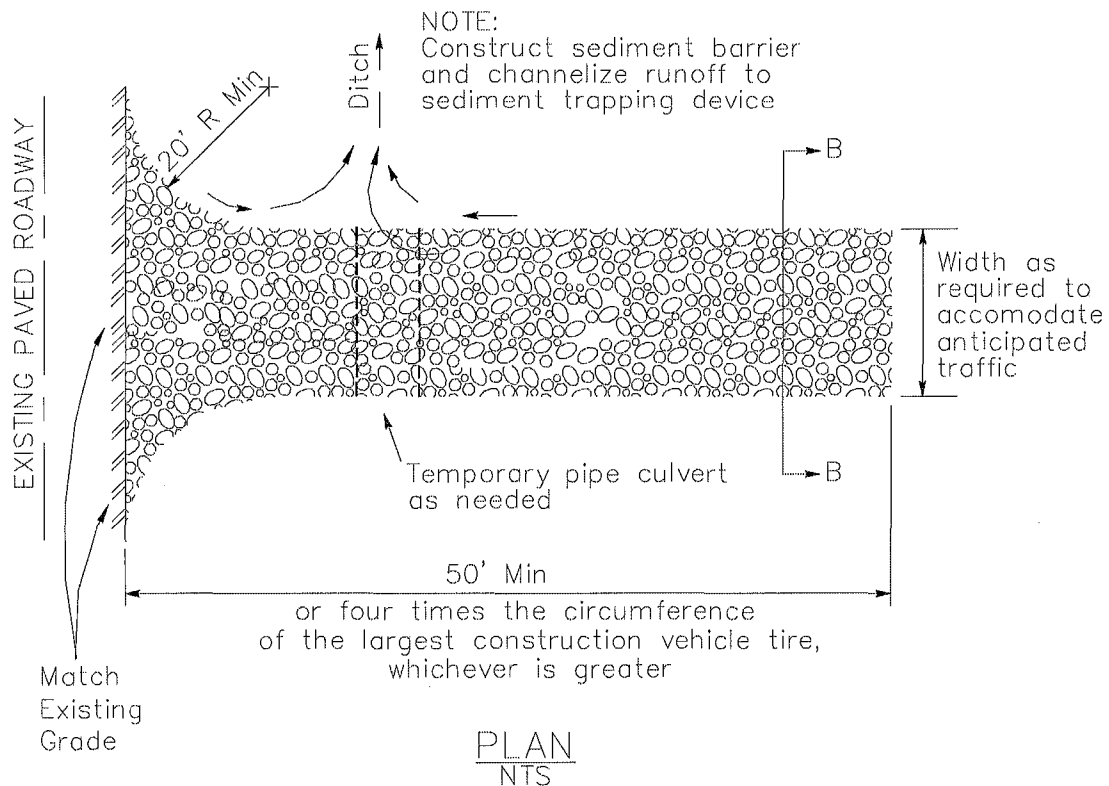
Guidance Specifying Management Measures for Nonpoint Pollution in Coastal Waters, EPA 840-B-9-002, USEPA, Office of Water, Washington, DC, 1993.

Water Quality Management Plan for the Lake Tahoe Region, Volume II, Handbook of Management Practices, Tahoe Regional Planning Agency, November 1988.

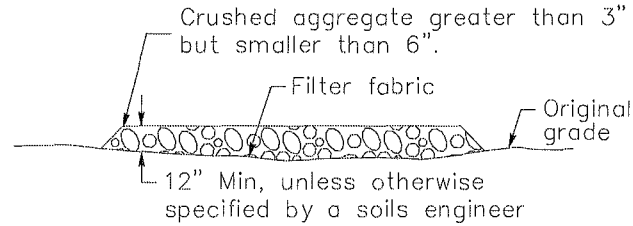
# Stabilized Construction Entrance/Exit TC-1



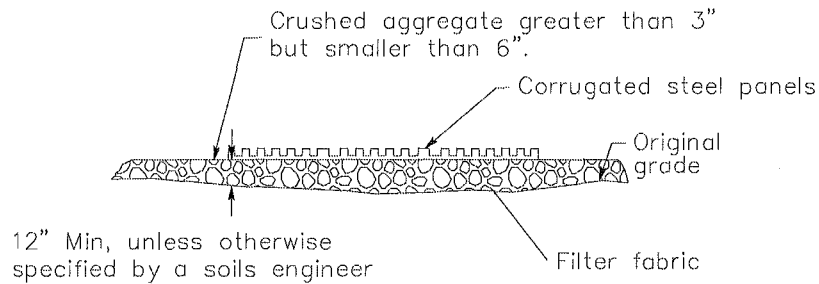
SECTION B-B  
NTS



# Stabilized Construction Entrance/Exit TC-1

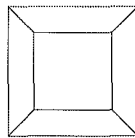


SECTION B-B  
NTS

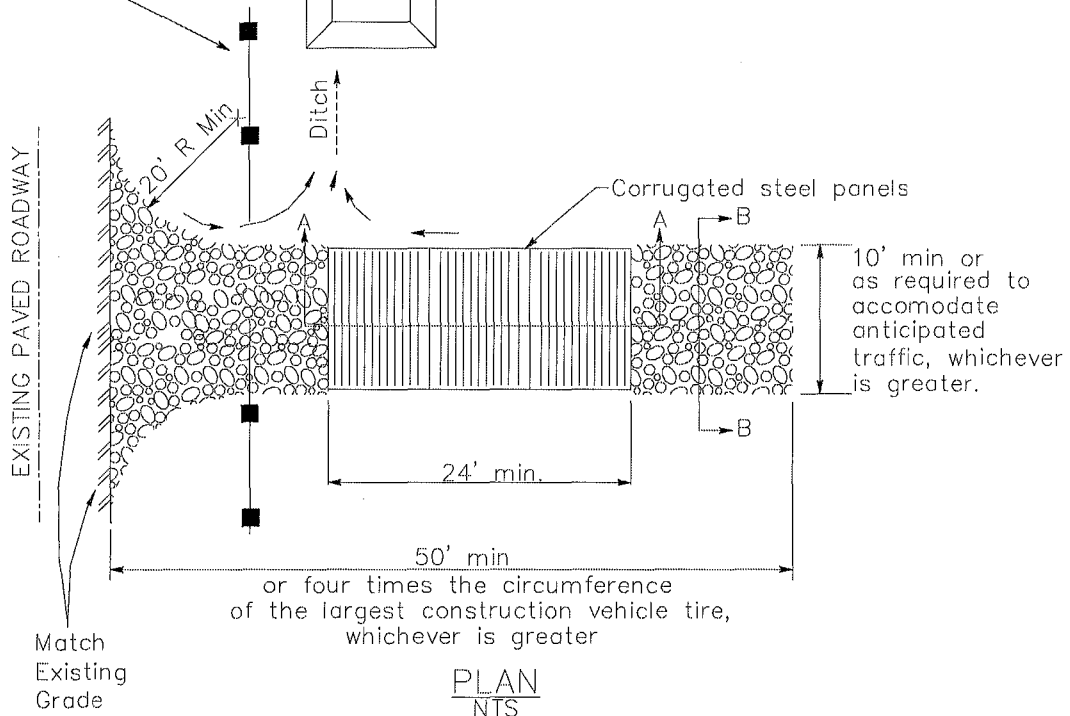


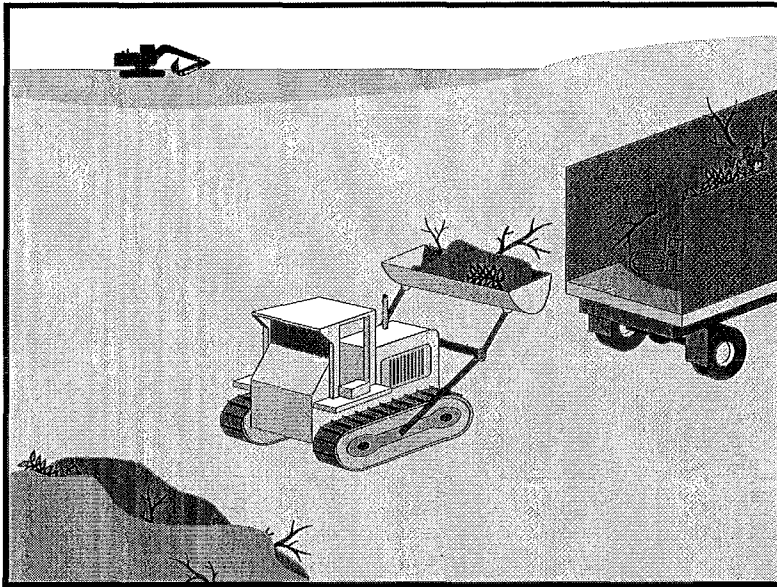
SECTION A-A  
NOT TO SCALE

NOTE:  
Construct sediment barrier and channelize runoff to sediment trapping device



Sediment trapping device





### Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

### Legend:

- Primary Objective
- Secondary Objective

### Description and Purpose

Solid waste management procedures and practices are designed to prevent or reduce the discharge of pollutants to stormwater from solid or construction waste by providing designated waste collection areas and containers, arranging for regular disposal, and training employees and subcontractors.

### Suitable Applications

This BMP is suitable for construction sites where the following wastes are generated or stored:

- Solid waste generated from trees and shrubs removed during land clearing, demolition of existing structures (rubble), and building construction
- Packaging materials including wood, paper, and plastic
- Scrap or surplus building materials including scrap metals, rubber, plastic, glass pieces and masonry products
- Domestic wastes including food containers such as beverage cans, coffee cups, paper bags, plastic wrappers, and cigarettes
- Construction wastes including brick, mortar, timber, steel and metal scraps, pipe and electrical cuttings, non-hazardous equipment parts, styrofoam and other materials used to transport and package construction materials
- Highway planting wastes, including vegetative material,

### Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>

### Potential Alternatives

None



plant containers, and packaging materials

## Limitations

Temporary stockpiling of certain construction wastes may not necessitate stringent drainage related controls during the non-rainy season or in desert areas with low rainfall.

## Implementation

The following steps will help keep a clean site and reduce stormwater pollution:

- Select designated waste collection areas onsite.
- Inform trash-hauling contractors that you will accept only watertight dumpsters for onsite use. Inspect dumpsters for leaks and repair any dumpster that is not watertight.
- Locate containers in a covered area or in a secondary containment.
- Provide an adequate number of containers with lids or covers that can be placed over the container to keep rain out or to prevent loss of wastes when it is windy.
- Plan for additional containers and more frequent pickup during the demolition phase of construction.
- Collect site trash daily, especially during rainy and windy conditions.
- Remove this solid waste promptly since erosion and sediment control devices tend to collect litter.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Do not hose out dumpsters on the construction site. Leave dumpster cleaning to the trash hauling contractor.
- Arrange for regular waste collection before containers overflow.
- Clean up immediately if a container does spill.
- Make sure that construction waste is collected, removed, and disposed of only at authorized disposal areas.

## Education

- Have the contractor's superintendent or representative oversee and enforce proper solid waste management procedures and practices.
- Instruct employees and subcontractors on identification of solid waste and hazardous waste.
- Educate employees and subcontractors on solid waste storage and disposal procedures.
- Hold regular meetings to discuss and reinforce disposal procedures (incorporate into regular safety meetings).

- Require that employees and subcontractors follow solid waste handling and storage procedures.
- Prohibit littering by employees, subcontractors, and visitors.
- Minimize production of solid waste materials wherever possible.

### ***Collection, Storage, and Disposal***

- Littering on the project site should be prohibited.
- To prevent clogging of the storm drainage system, litter and debris removal from drainage grates, trash racks, and ditch lines should be a priority.
- Trash receptacles should be provided in the contractor's yard, field trailer areas, and at locations where workers congregate for lunch and break periods.
- Litter from work areas within the construction limits of the project site should be collected and placed in watertight dumpsters at least weekly, regardless of whether the litter was generated by the contractor, the public, or others. Collected litter and debris should not be placed in or next to drain inlets, stormwater drainage systems, or watercourses.
- Dumpsters of sufficient size and number should be provided to contain the solid waste generated by the project.
- Full dumpsters should be removed from the project site and the contents should be disposed of by the trash hauling contractor.
- Construction debris and waste should be removed from the site biweekly or more frequently as needed.
- Construction material visible to the public should be stored or stacked in an orderly manner.
- Stormwater runoff should be prevented from contacting stored solid waste through the use of berms, dikes, or other temporary diversion structures or through the use of measures to elevate waste from site surfaces.
- Solid waste storage areas should be located at least 50 ft from drainage facilities and watercourses and should not be located in areas prone to flooding or ponding.
- Except during fair weather, construction and highway planting waste not stored in watertight dumpsters should be securely covered from wind and rain by covering the waste with tarps or plastic.
- Segregate potentially hazardous waste from non-hazardous construction site waste.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- For disposal of hazardous waste, see WM-6, Hazardous Waste Management. Have hazardous waste hauled to an appropriate disposal and/or recycling facility.

- Salvage or recycle useful vegetation debris, packaging and surplus building materials when practical. For example, trees and shrubs from land clearing can be used as a brush barrier, or converted into wood chips, then used as mulch on graded areas. Wood pallets, cardboard boxes, and construction scraps can also be recycled.

## Costs

All of the above are low cost measures.

## Inspection and Maintenance

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and of two-week intervals in the non-rainy season to verify continued BMP implementation.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur
- Inspect construction waste area regularly.
- Arrange for regular waste collection.

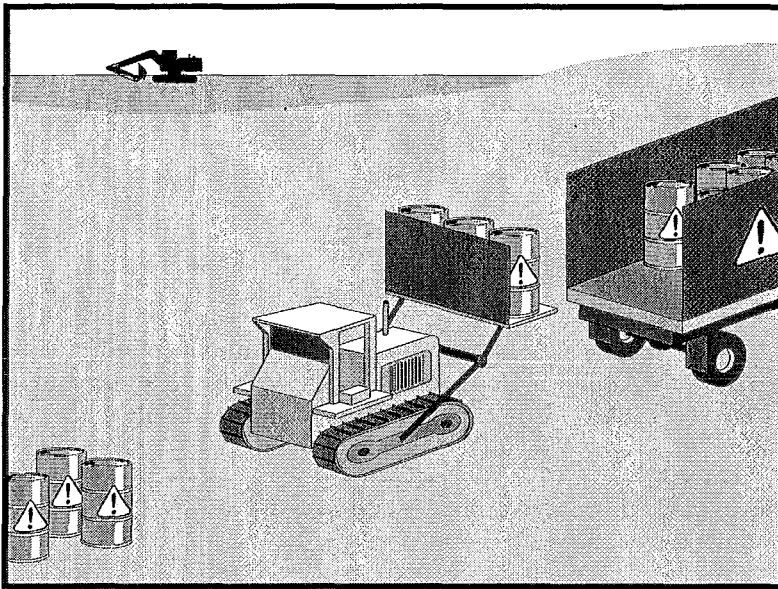
## References

Processes, Procedures and Methods to Control Pollution Resulting from All Construction Activity, 430/9-73-007, USEPA, 1973.

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), November 2000.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.





## Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

## Legend:

- Primary Objective
- Secondary Objective

## Description and Purpose

Prevent or reduce the discharge of pollutants to stormwater from hazardous waste through proper material use, waste disposal, and training of employees and subcontractors.

## Suitable Applications

This best management practice (BMP) applies to all construction projects. Hazardous waste management practices are implemented on construction projects that generate waste from the use of:

- Petroleum Products
- Concrete Curing Compounds
- Palliatives
- Septic Wastes
- Stains
- Wood Preservatives
- Asphalt Products
- Pesticides
- Acids
- Paints
- Solvents
- Roofing Tar
- Any materials deemed a hazardous waste in California, Title 22 Division 4.5, or listed in 40 CFR Parts 110, 117, 261, or 302

## Targeted Constituents

Sediment	
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	<input checked="" type="checkbox"/>
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	<input checked="" type="checkbox"/>
Organics	<input checked="" type="checkbox"/>

## Potential Alternatives

None



In addition, sites with existing structures may contain wastes, which must be disposed of in accordance with federal, state, and local regulations. These wastes include:

- Sandblasting grit mixed with lead-, cadmium-, or chromium-based paints
- Asbestos
- PCBs (particularly in older transformers)

## Limitations

- Hazardous waste that cannot be reused or recycled must be disposed of by a licensed hazardous waste hauler.
- Nothing in this BMP relieves the contractor from responsibility for compliance with federal, state, and local laws regarding storage, handling, transportation, and disposal of hazardous wastes.
- This BMP does not cover aerially deposited lead (ADL) soils. For ADL soils refer to WM-7, Contaminated Soil Management.

## Implementation

The following steps will help reduce stormwater pollution from hazardous wastes:

### *Material Use*

- Wastes should be stored in sealed containers constructed of a suitable material and should be labeled as required by Title 22 CCR, Division 4.5 and 49 CFR Parts 172, 173, 178, and 179.
- All hazardous waste should be stored, transported, and disposed as required in Title 22 CCR, Division 4.5 and 49 CFR 261-263.
- Waste containers should be stored in temporary containment facilities that should comply with the following requirements:
  - Temporary containment facility should provide for a spill containment volume equal to 1.5 times the volume of all containers able to contain precipitation from a 25 year storm event, plus the greater of 10% of the aggregate volume of all containers or 100% of the capacity of the largest tank within its boundary, whichever is greater.
  - Temporary containment facility should be impervious to the materials stored there for a minimum contact time of 72 hours.
  - Temporary containment facilities should be maintained free of accumulated rainwater and spills. In the event of spills or leaks, accumulated rainwater and spills should be placed into drums after each rainfall. These liquids should be handled as a hazardous waste unless testing determines them to be non-hazardous. Non-hazardous liquids should be sent to an approved disposal site.
  - Sufficient separation should be provided between stored containers to allow for spill cleanup and emergency response access.

- Incompatible materials, such as chlorine and ammonia, should not be stored in the same temporary containment facility.
- Throughout the rainy season, temporary containment facilities should be covered during non-working days, and prior to rain events. Covered facilities may include use of plastic tarps for small facilities or constructed roofs with overhangs.
- Drums should not be overfilled and wastes should not be mixed.
- Unless watertight, containers of dry waste should be stored on pallets.
- Do not over-apply herbicides and pesticides. Prepare only the amount needed. Follow the recommended usage instructions. Over application is expensive and environmentally harmful. Apply surface dressings in several smaller applications, as opposed to one large application. Allow time for infiltration and avoid excess material being carried offsite by runoff. Do not apply these chemicals just before it rains. People applying pesticides must be certified in accordance with federal and state regulations.
- Paint brushes and equipment for water and oil based paints should be cleaned within a contained area and should not be allowed to contaminate site soils, watercourses, or drainage systems. Waste paints, thinners, solvents, residues, and sludges that cannot be recycled or reused should be disposed of as hazardous waste. When thoroughly dry, latex paint and paint cans, used brushes, rags, absorbent materials, and drop cloths should be disposed of as solid waste.
- Do not clean out brushes or rinse paint containers into the dirt, street, gutter, storm drain, or stream. “Paint out” brushes as much as possible. Rinse water-based paints to the sanitary sewer. Filter and reuse thinners and solvents. Dispose of excess oil-based paints and sludge as hazardous waste.
- The following actions should be taken with respect to temporary contaminant:
  - Ensure that adequate hazardous waste storage volume is available.
  - Ensure that hazardous waste collection containers are conveniently located.
  - Designate hazardous waste storage areas onsite away from storm drains or watercourses and away from moving vehicles and equipment to prevent accidental spills.
  - Minimize production or generation of hazardous materials and hazardous waste on the job site.
  - Use containment berms in fueling and maintenance areas and where the potential for spills is high.
  - Segregate potentially hazardous waste from non-hazardous construction site debris.
  - Keep liquid or semi-liquid hazardous waste in appropriate containers (closed drums or similar) and under cover.

- Clearly label all hazardous waste containers with the waste being stored and the date of accumulation.
- Place hazardous waste containers in secondary containment.
- Do not allow potentially hazardous waste materials to accumulate on the ground.
- Do not mix wastes.
- Use all of the product before disposing of the container.
- Do not remove the original product label; it contains important safety and disposal information.

### ***Waste Recycling Disposal***

- Select designated hazardous waste collection areas onsite.
- Hazardous materials and wastes should be stored in covered containers and protected from vandalism.
- Place hazardous waste containers in secondary containment.
- Do not mix wastes, this can cause chemical reactions, making recycling impossible and complicating disposal.
- Recycle any useful materials such as used oil or water-based paint.
- Make sure that toxic liquid wastes (used oils, solvents, and paints) and chemicals (acids, pesticides, additives, curing compounds) are not disposed of in dumpsters designated for construction debris.
- Arrange for regular waste collection before containers overflow.
- Make sure that hazardous waste (e.g., excess oil-based paint and sludge) is collected, removed, and disposed of only at authorized disposal areas.

### ***Disposal Procedures***

- Waste should be disposed of by a licensed hazardous waste transporter at an authorized and licensed disposal facility or recycling facility utilizing properly completed Uniform Hazardous Waste Manifest forms.
- A Department of Health Services certified laboratory should sample waste to determine the appropriate disposal facility.
- Properly dispose of rainwater in secondary containment that may have mixed with hazardous waste.
- Attention is directed to "Hazardous Material", "Contaminated Material", and "Aerially Deposited Lead" of the contract documents regarding the handling and disposal of hazardous materials.

## *Education*

- Educate employees and subcontractors on hazardous waste storage and disposal procedures.
- Educate employees and subcontractors on potential dangers to humans and the environment from hazardous wastes.
- Instruct employees and subcontractors on safety procedures for common construction site hazardous wastes.
- Instruct employees and subcontractors in identification of hazardous and solid waste.
- Hold regular meetings to discuss and reinforce hazardous waste management procedures (incorporate into regular safety meetings).
- The contractor's superintendent or representative should oversee and enforce proper hazardous waste management procedures and practices.
- Make sure that hazardous waste is collected, removed, and disposed of only at authorized disposal areas.
- Warning signs should be placed in areas recently treated with chemicals.
- Place a stockpile of spill cleanup materials where it will be readily accessible.
- If a container does spill, clean up immediately.

## **Costs**

All of the above are low cost measures.

## *Inspection and Maintenance*

- Inspect and verify that activity-based BMPs are in place prior to the commencement of associated activities. While activities associated with the BMP are under way, inspect weekly during the rainy season and of two week intervals in the non-rainy season to verify continued BMP implementation.
- Inspect BMPs subject to non-stormwater discharge daily while non-stormwater discharges occur
- Hazardous waste should be regularly collected.
- A foreman or construction supervisor should monitor onsite hazardous waste storage and disposal procedures.
- Waste storage areas should be kept clean, well organized, and equipped with ample cleanup supplies as appropriate for the materials being stored.
- Perimeter controls, containment structures, covers, and liners should be repaired or replaced as needed to maintain proper function.
- Hazardous spills should be cleaned up and reported in conformance with the applicable Material Safety Data Sheet (MSDS) and the instructions posted at the project site.

- The National Response Center, at (800) 424-8802, should be notified of spills of federal reportable quantities in conformance with the requirements in 40 CFR parts 110, 117, and 302. Also notify the Governors Office of Emergency Services Warning Center at (916) 845-8911.
- A copy of the hazardous waste manifests should be provided.

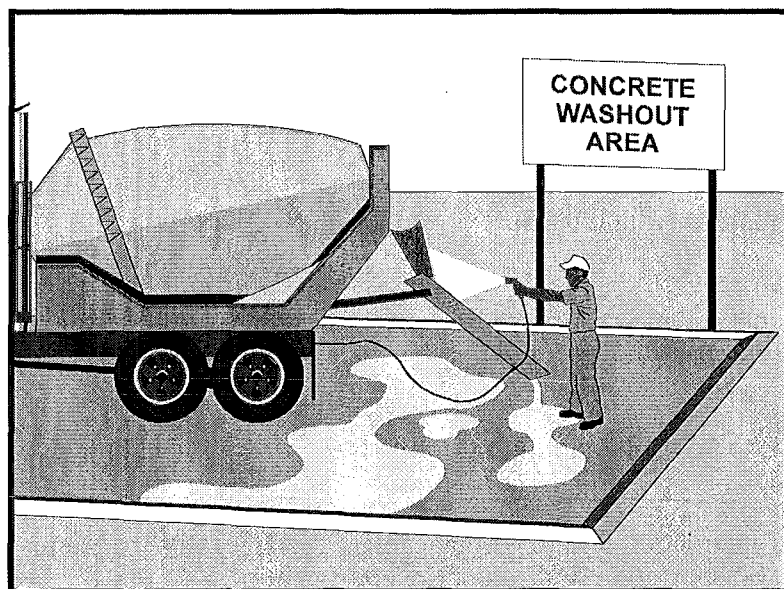
## References

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## Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	<input checked="" type="checkbox"/>
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

## Legend:

- Primary Category
- Secondary Category

## Targeted Constituents

Sediment	<input checked="" type="checkbox"/>
Nutrients	
Trash	
Metals	<input checked="" type="checkbox"/>
Bacteria	
Oil and Grease	
Organics	

## Potential Alternatives

None

## Description and Purpose

Prevent the discharge of pollutants to stormwater from concrete waste by conducting washout onsite or offsite in a designated area, and by employee and subcontractor training.

The General Permit incorporates Numeric Effluent Limits (NEL) and Numeric Action Levels (NAL) for pH (see Section 2 of this handbook to determine your project's risk level and if you are subject to these requirements).

Many types of construction materials, including mortar, concrete, stucco, cement and block and their associated wastes have basic chemical properties that can raise pH levels outside of the permitted range. Additional care should be taken when managing these materials to prevent them from coming into contact with stormwater flows and raising pH to levels outside the accepted range.

## Suitable Applications

Concrete waste management procedures and practices are implemented on construction projects where:

- Concrete is used as a construction material or where concrete dust and debris result from demolition activities.
- Slurries containing portland cement concrete (PCC) are generated, such as from saw cutting, coring, grinding, grooving, and hydro-concrete demolition.



- Concrete trucks and other concrete-coated equipment are washed onsite.
- Mortar-mixing stations exist.
- Stucco mixing and spraying .
- See also NS-8, Vehicle and Equipment Cleaning.

## Limitations

- Offsite washout of concrete wastes may not always be possible.
- Multiple washouts may be needed to assure adequate capacity and to allow for evaporation.

## Implementation

The following steps will help reduce stormwater pollution from concrete wastes:

- Incorporate requirements for concrete waste management into material supplier and subcontractor agreements.
- Store dry and wet materials under cover, away from drainage areas. Refer to WM-1, Material Delivery and Storage for more information.
- Avoid mixing excess amounts of concrete.
- Perform washout of concrete trucks in designated areas only, where washout will not reach stormwater.
- Do not wash out concrete trucks into storm drains, open ditches, streets, streams or onto the ground. Trucks should always be washed out into designated facilities.
- Do not allow excess concrete to be dumped onsite, except in designated areas.
- For onsite washout:
  - On larger sites, it is recommended to locate washout areas at least 50 feet from storm drains, open ditches, or water bodies. Do not allow runoff from this area by constructing a temporary pit or bermed area large enough for liquid and solid waste.
  - Washout wastes into the temporary washout where the concrete can set, be broken up, and then disposed properly.
  - Washout should be lined so there is no discharge into the underlying soil.
- Do not wash sweepings from exposed aggregate concrete into the street or storm drain. Collect and return sweepings to aggregate base stockpile or dispose in the trash.
- See typical concrete washout installation details at the end of this fact sheet.

## Education

- Educate employees, subcontractors, and suppliers on the concrete waste management techniques described herein.



- Arrange for contractor's superintendent or representative to oversee and enforce concrete waste management procedures.
- Discuss the concrete management techniques described in this BMP (such as handling of concrete waste and washout) with the ready-mix concrete supplier before any deliveries are made.

### ***Concrete Demolition Wastes***

- Stockpile concrete demolition waste in accordance with BMP WM-3, Stockpile Management.
- Dispose of or recycle hardened concrete waste in accordance with applicable federal, state or local regulations.

### ***Concrete Slurry Wastes***

- PCC and AC waste should not be allowed to enter storm drains or watercourses.
- PCC and AC waste should be collected and disposed of or placed in a temporary concrete washout facility (as described in Onsite Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedures, below).
- A foreman or construction supervisor should monitor onsite concrete working tasks, such as saw cutting, coring, grinding and grooving to ensure proper methods are implemented.
- Saw-cut concrete slurry should not be allowed to enter storm drains or watercourses. Residue from grinding operations should be picked up by means of a vacuum attachment to the grinding machine or by sweeping. Saw cutting residue should not be allowed to flow across the pavement and should not be left on the surface of the pavement. See also NS-3, Paving and Grinding Operations; and WM-10, Liquid Waste Management.
- Concrete slurry residue should be disposed in a temporary washout facility (as described in Onsite Temporary Concrete Washout Facility, Concrete Transit Truck Washout Procedures, below) and allowed to dry. Dispose of dry slurry residue in accordance with WM-5, Solid Waste Management.

### ***Onsite Temporary Concrete Washout Facility, Transit Truck Washout Procedures***

- Temporary concrete washout facilities should be located a minimum of 50 ft from storm drain inlets, open drainage facilities, and watercourses. Each facility should be located away from construction traffic or access areas to prevent disturbance or tracking.
- A sign should be installed adjacent to each washout facility to inform concrete equipment operators to utilize the proper facilities.
- Temporary concrete washout facilities should be constructed above grade or below grade at the option of the contractor. Temporary concrete washout facilities should be constructed and maintained in sufficient quantity and size to contain all liquid and concrete waste generated by washout operations.

- Temporary washout facilities should have a temporary pit or bermed areas of sufficient volume to completely contain all liquid and waste concrete materials generated during washout procedures.
- Temporary washout facilities should be lined to prevent discharge to the underlying ground or surrounding area.
- Washout of concrete trucks should be performed in designated areas only.
- Only concrete from mixer truck chutes should be washed into concrete wash out.
- Concrete washout from concrete pumper bins can be washed into concrete pumper trucks and discharged into designated washout area or properly disposed of or recycled offsite.
- Once concrete wastes are washed into the designated area and allowed to harden, the concrete should be broken up, removed, and disposed of per WM-5, Solid Waste Management. Dispose of or recycle hardened concrete on a regular basis.
- Temporary Concrete Washout Facility (Type Above Grade)
  - Temporary concrete washout facility (type above grade) should be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 ft; however, smaller sites or jobs may only need a smaller washout facility. With any washout, always maintain a sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations.
  - Materials used to construct the washout area should conform to the provisions detailed in their respective BMPs (e.g., SE-8 Sandbag Barrier).
  - Plastic lining material should be a minimum of 10 mil in polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.
  - Alternatively, portable removable containers can be used as above grade concrete washouts. Also called a “roll-off”; this concrete washout facility should be properly sealed to prevent leakage, and should be removed from the site and replaced when the container reaches 75% capacity.
- Temporary Concrete Washout Facility (Type Below Grade)
  - Temporary concrete washout facilities (type below grade) should be constructed as shown on the details at the end of this BMP, with a recommended minimum length and minimum width of 10 ft. The quantity and volume should be sufficient to contain all liquid and concrete waste generated by washout operations.
  - Lath and flagging should be commercial type.
  - Plastic lining material should be a minimum of 10 mil polyethylene sheeting and should be free of holes, tears, or other defects that compromise the impermeability of the material.

- The base of a washout facility should be free of rock or debris that may damage a plastic liner.

## ***Removal of Temporary Concrete Washout Facilities***

- When temporary concrete washout facilities are no longer required for the work, the hardened concrete should be removed and properly disposed or recycled in accordance with federal, state or local regulations. Materials used to construct temporary concrete washout facilities should be removed from the site of the work and properly disposed or recycled in accordance with federal, state or local regulations..
- Holes, depressions or other ground disturbance caused by the removal of the temporary concrete washout facilities should be backfilled and repaired.

## **Costs**

All of the above are low cost measures. Roll-off concrete washout facilities can be more costly than other measures due to removal and replacement; however, provide a cleaner alternative to traditional washouts. The type of washout facility, size, and availability of materials will determine the cost of the washout.

## **Inspection and Maintenance**

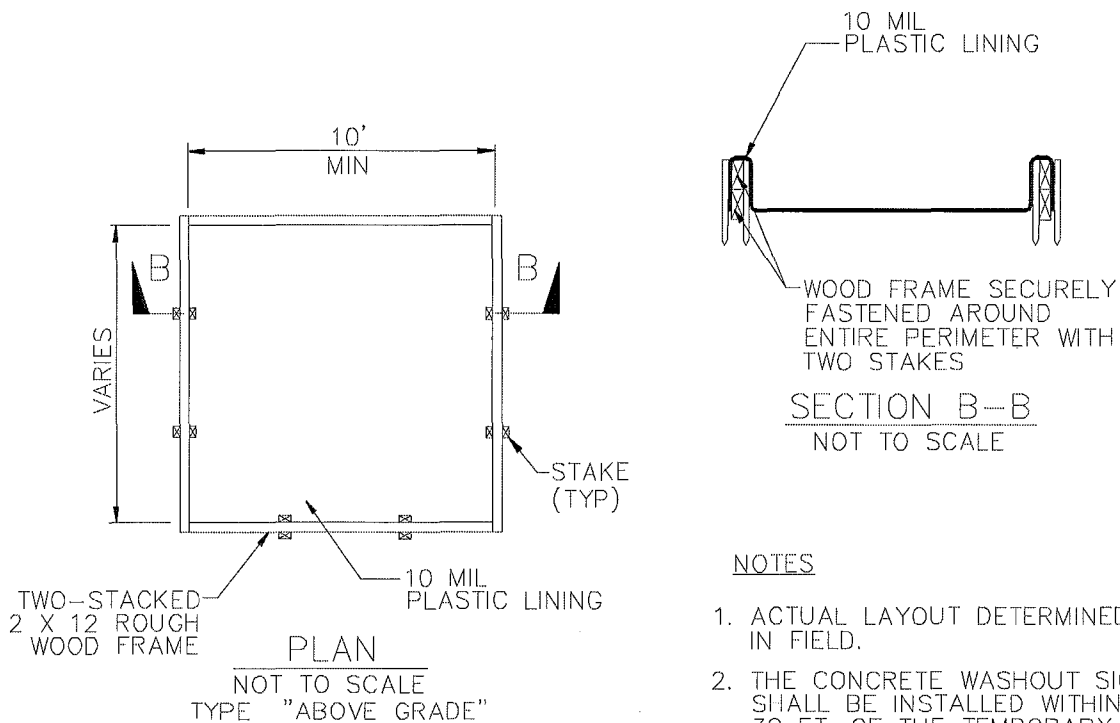
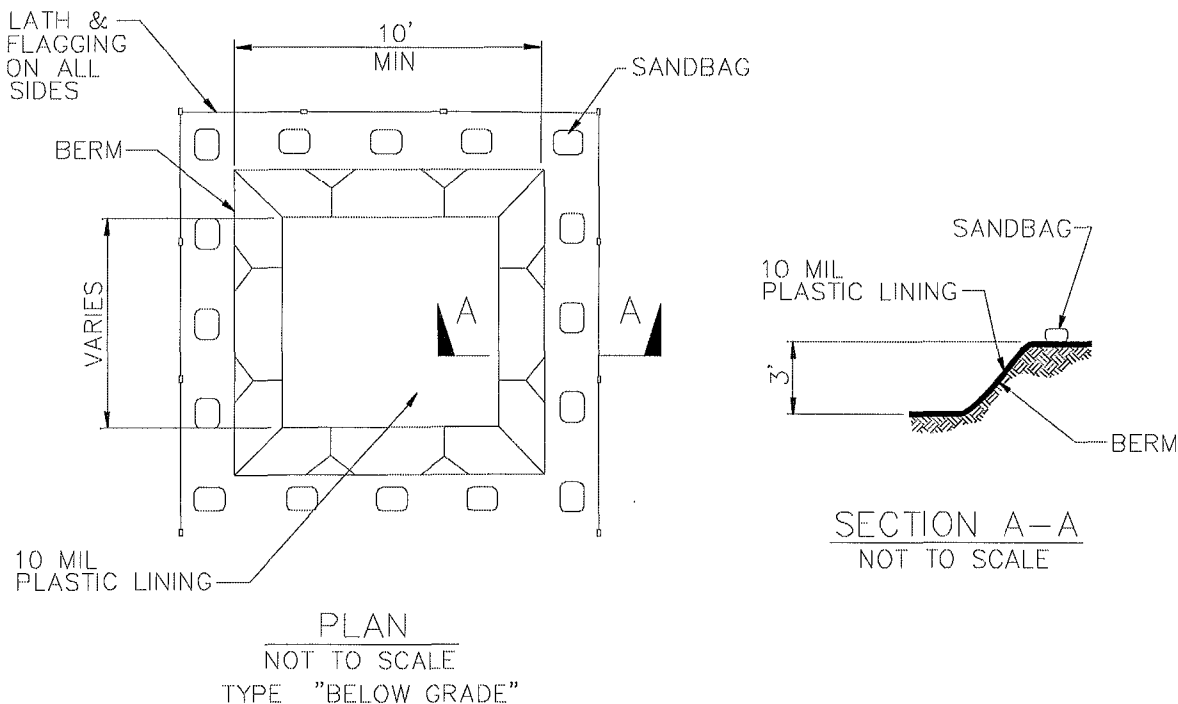
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Temporary concrete washout facilities should be maintained to provide adequate holding capacity with a minimum freeboard of 4 in. for above grade facilities and 12 in. for below grade facilities. Maintaining temporary concrete washout facilities should include removing and disposing of hardened concrete and returning the facilities to a functional condition. Hardened concrete materials should be removed and properly disposed or recycled in accordance with federal, state or local regulations.
- Washout facilities must be cleaned, or new facilities must be constructed and ready for use once the washout is 75% full.
- Inspect washout facilities for damage (e.g. torn liner, evidence of leaks, signage, etc.). Repair all identified damage.

## **References**

Blueprint for a Clean Bay: Best Management Practices to Prevent Stormwater Pollution from Construction Related Activities; Santa Clara Valley Nonpoint Source Pollution Control Program, 1995.

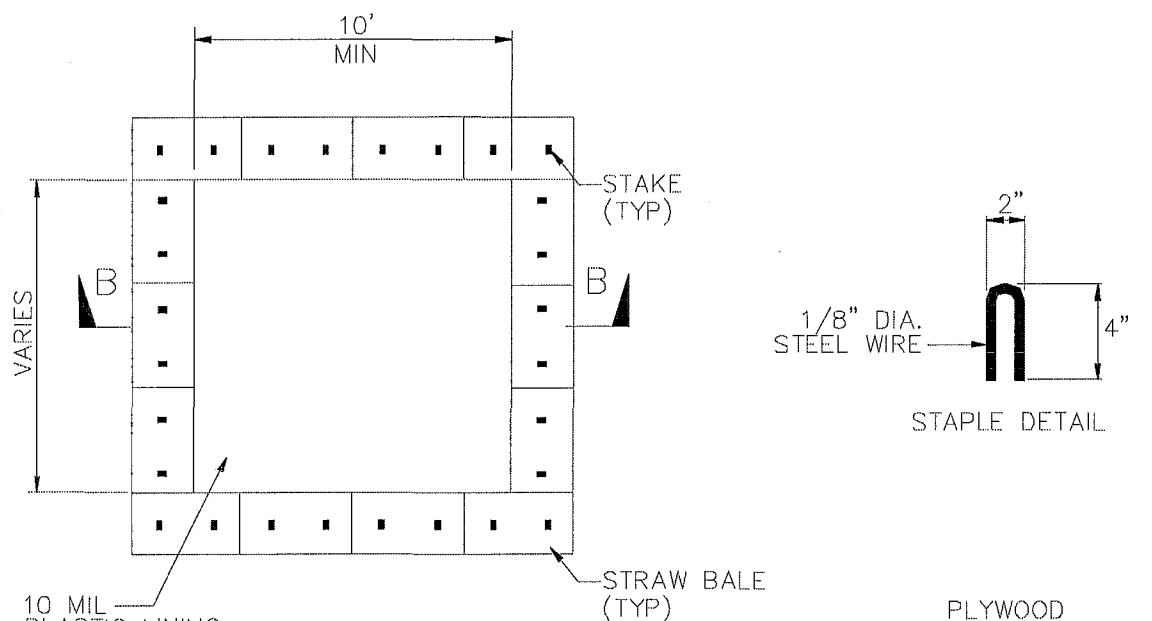
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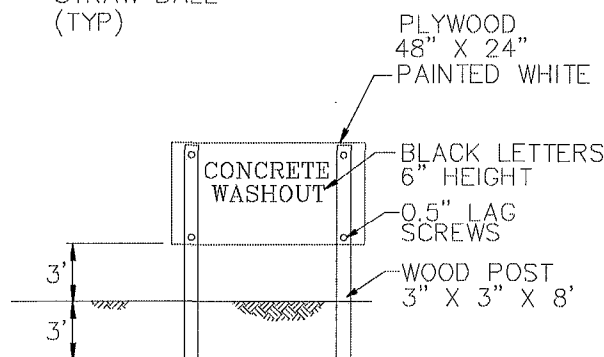
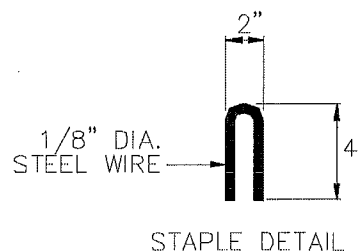


### NOTES

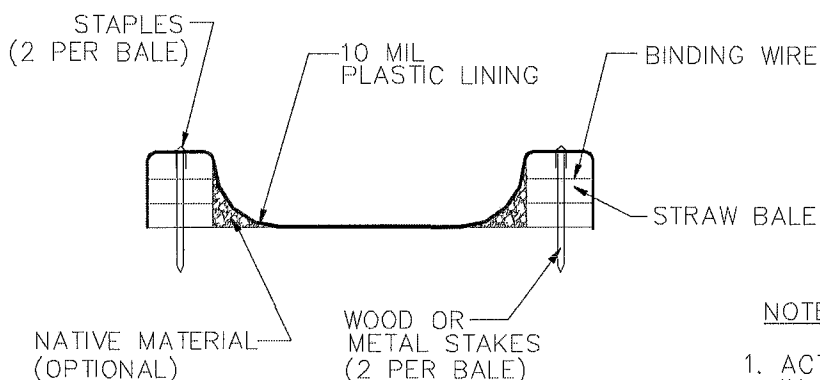
1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



**PLAN**  
NOT TO SCALE  
TYPE "ABOVE GRADE"  
WITH STRAW BALES



**CONCRETE WASHOUT SIGN DETAIL**  
(OR EQUIVALENT)

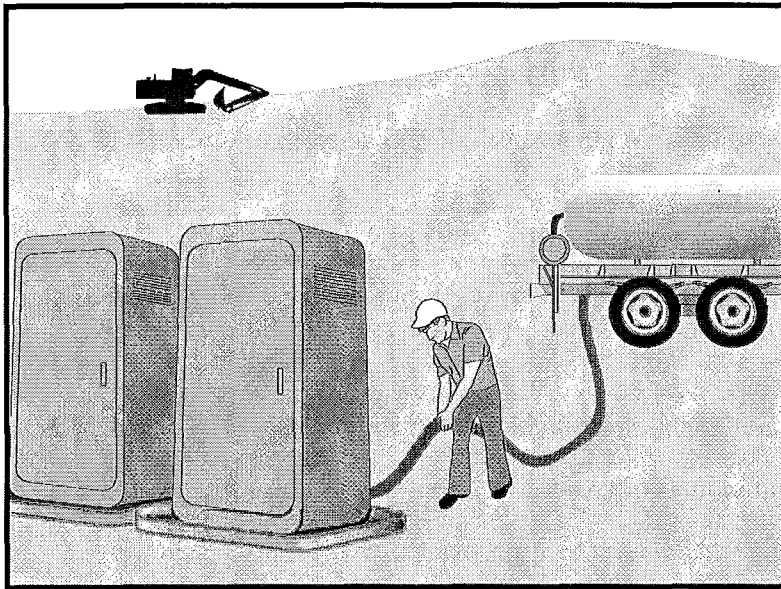


**SECTION B-B**  
NOT TO SCALE

**NOTES**

1. ACTUAL LAYOUT DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30 FT. OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

# Sanitary/Septic Waste Management WM-9



## Description and Purpose

Proper sanitary and septic waste management prevent the discharge of pollutants to stormwater from sanitary and septic waste by providing convenient, well-maintained facilities, and arranging for regular service and disposal.

## Suitable Applications

Sanitary septic waste management practices are suitable for use at all construction sites that use temporary or portable sanitary and septic waste systems.

## Limitations

None identified.

## Implementation

Sanitary or septic wastes should be treated or disposed of in accordance with state and local requirements. In many cases, one contract with a local facility supplier will be all that it takes to make sure sanitary wastes are properly disposed.

## Storage and Disposal Procedures

- Temporary sanitary facilities should be located away from drainage facilities, watercourses, and from traffic circulation. If site conditions allow, place portable facilities a minimum of 50 feet from drainage conveyances and traffic areas. When subjected to high winds or risk of high winds, temporary sanitary facilities should be secured to prevent overturning.

## Categories

EC	Erosion Control	
SE	Sediment Control	
TC	Tracking Control	
WE	Wind Erosion Control	
NS	Non-Stormwater Management Control	
WM	Waste Management and Materials Pollution Control	<input checked="" type="checkbox"/>

## Legend:

- Primary Category
- Secondary Category

## Targeted Constituents

Sediment	
Nutrients	<input checked="" type="checkbox"/>
Trash	<input checked="" type="checkbox"/>
Metals	
Bacteria	<input checked="" type="checkbox"/>
Oil and Grease	
Organics	<input checked="" type="checkbox"/>

## Potential Alternatives

None



# **Sanitary/Septic Waste Management WM-9**

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- Temporary sanitary facilities must be equipped with containment to prevent discharge of pollutants to the stormwater drainage system of the receiving water.
- Consider safety as well as environmental implications before placing temporary sanitary facilities.
- Wastewater should not be discharged or buried within the project site.
- Sanitary and septic systems that discharge directly into sanitary sewer systems, where permissible, should comply with the local health agency, city, county, and sewer district requirements.
- Only reputable, licensed sanitary and septic waste haulers should be used.
- Sanitary facilities should be located in a convenient location.
- Temporary septic systems should treat wastes to appropriate levels before discharging.
- If using an onsite disposal system (OSDS), such as a septic system, local health agency requirements must be followed.
- Temporary sanitary facilities that discharge to the sanitary sewer system should be properly connected to avoid illicit discharges.
- Sanitary and septic facilities should be maintained in good working order by a licensed service.
- Regular waste collection by a licensed hauler should be arranged before facilities overflow.
- If a spill does occur from a temporary sanitary facility, follow federal, state and local regulations for containment and clean-up.

## ***Education***

- Educate employees, subcontractors, and suppliers on sanitary and septic waste storage and disposal procedures.
- Educate employees, subcontractors, and suppliers of potential dangers to humans and the environment from sanitary and septic wastes.
- Instruct employees, subcontractors, and suppliers in identification of sanitary and septic waste.
- Hold regular meetings to discuss and reinforce the use of sanitary facilities (incorporate into regular safety meetings).
- Establish a continuing education program to indoctrinate new employees.

## **Costs**

All of the above are low cost measures.

# **Sanitary/Septic Waste Management WM-9**

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## **Inspection and Maintenance**

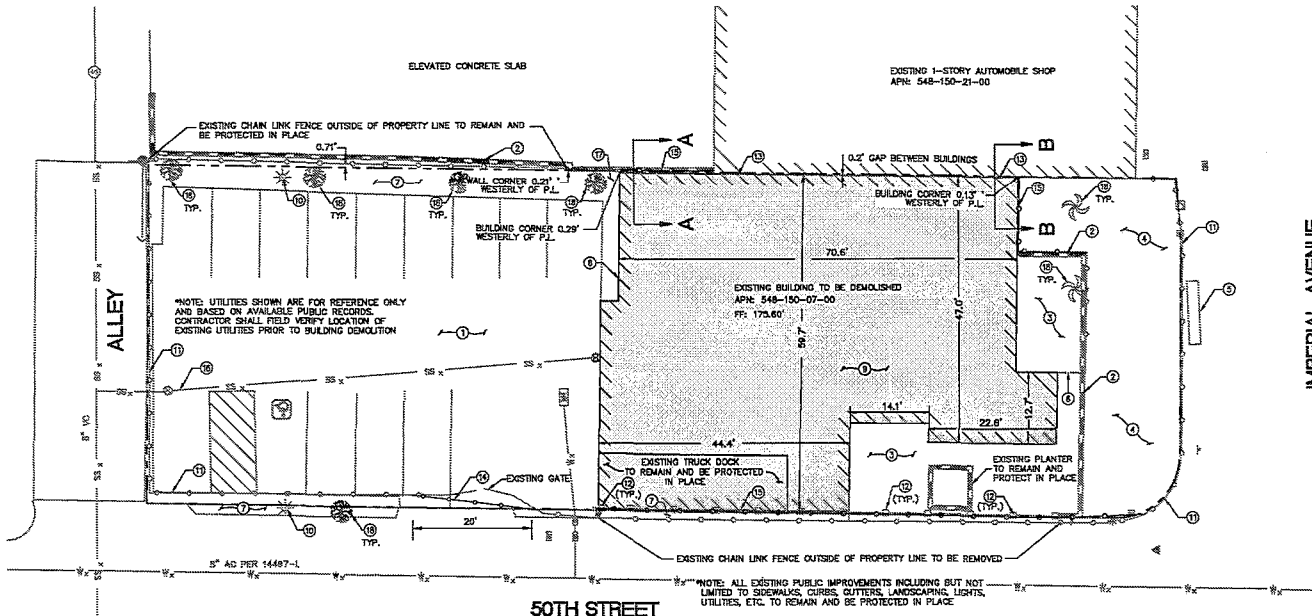
- BMPs must be inspected in accordance with General Permit requirements for the associated project type and risk level. It is recommended that at a minimum, BMPs be inspected weekly, prior to forecasted rain events, daily during extended rain events, and after the conclusion of rain events.
- Arrange for regular waste collection.
- If high winds are expected, portable sanitary facilities must be secured with spikes or weighed down to prevent over turning.
- If spills or leaks from sanitary or septic facilities occur that are not contained and discharge from the site, non-visible sampling of site discharge may be required. Refer to the General Permit or to your project specific Construction Site Monitoring Plan to determine if and where sampling is required.

## **References**

Stormwater Quality Handbooks - Construction Site Best Management Practices (BMPs) Manual, State of California Department of Transportation (Caltrans), March 2003.

Stormwater Management for Construction Activities; Developing Pollution Prevention Plans and Best Management Practice, EPA 832-R-92005; USEPA, April 1992.



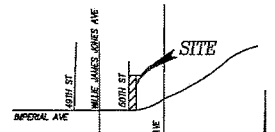
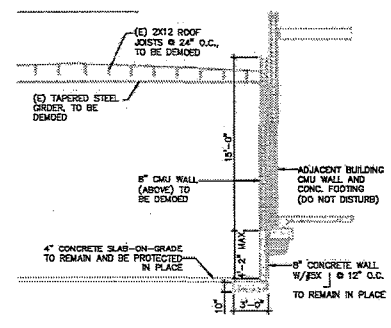
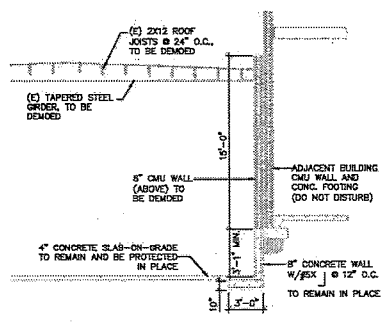
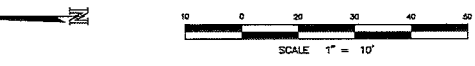


- ### DEMOLITION NOTES
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
  2. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCEES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
  3. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES CONCERNING OBSTRUCTIONS AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE GROUTED IF UNDER BUILDING.
  4. A CERTIFICATE OF DISCONTINUANCE OF SERVICE FOR BUILDING TO BE DEMOLISHED IS REQUIRED FROM SAN DIEGO GAS & ELECTRIC (SDG&E). CALL SDG&E PROJECT MANAGEMENT AT (619)230-7900.
  5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CONSTRUCTION MANAGER.
  6. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
  7. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
  8. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING AND/OR STORM INLET STRUCTURES, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN. ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
  9. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
  10. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

- ### CONSTRUCTION NOTES
1. EXISTING ASPHALT INCLUDING BUT NOT LIMITED TO LANDSCAPING AND UTILITIES WITHIN PRIVATE PARKING LOT TO REMAIN AND BE PROTECTED IN PLACE.
  2. EXISTING WOODEN FENCE AND RETAINING BLOCK WALL TO REMAIN AND BE PROTECTED IN PLACE.
  3. EXISTING CONCRETE COURTYARD AND CONCRETE PLANTER TO REMAIN AND BE PROTECTED IN PLACE.
  4. EXISTING MULCH AREA, LANDSCAPING, AND CONCRETE PADS TO REMAIN AND BE PROTECTED IN PLACE.
  5. EXISTING BUS SHELTER TO REMAIN AND BE PROTECTED IN PLACE.
  6. EXISTING WOODEN GATE FROM BUILDING TO BLOCK WALL TO BE REMOVED.
  7. EXISTING LANDSCAPE AREA TO REMAIN AND BE PROTECTED IN PLACE.
  8. CONTRACTOR TO COORDINATE WITH SDG&E FOR ELECTRICAL METER REMOVAL.
  9. CONTRACTOR TO DEMOLISH EXISTING BUILDING. CONTRACTOR TO PROTECT IN PLACE EXISTING CONCRETE PAD.
  10. EXISTING LIGHT POLE AND BASE TO REMAIN AND BE PROTECTED IN PLACE.
  11. EXISTING SITE PERIMETER CHAIN LINK FENCE TO BE REMOVED AND REPLACED WITH 6" VINYL COATED CHAIN LINK FENCE PER CITY OF SAN DIEGO STANDARD DRAWING SOM-112.
  12. CONTRACTOR TO REMOVE AND SALVAGE EXISTING I-BEAMS (12 TOTAL). CONTRACTOR SHALL STORE I-BEAMS ON PARKING LOT SURFACE.
  13. CONTRACTOR TO REMOVE EXISTING CMU BLOCKS. CONTRACTOR TO PROTECT IN PLACE EXISTING REINFORCED CONCRETE STEM WALL AND FOOTING. CONTRACTOR TO CUT REBAR AT TOP OF EXISTING REINFORCED CONCRETE STEM WALL. SEE SECTIONS A-A AND B-B FOR MORE INFORMATION.
  14. REMOVE AND REPLACE EXISTING CHAIN LINK GATE WITH 20" WIDE CHAIN LINK GATE PER CITY OF SAN DIEGO STANDARD DRAWING SOM-114.
  15. INSTALL 6" VINYL COATED CHAIN LINK FENCE PER CITY OF SAN DIEGO STANDARD DRAWING SOM-112 WITHIN PROPERTY LINE.
  16. CONTRACTOR TO LOCATE EXISTING SEWER LATERAL AND CAP A MINIMUM OF 5' FROM PROPERTY LINE PER CITY OF SAN DIEGO STANDARD DRAWING W9-03.
  17. CONTRACTOR TO REMOVE EXISTING TELEPHONE LINE.
  18. CONTRACTOR SHALL PRUNE AND SHAPE EXISTING TREES.

**LEGEND:**

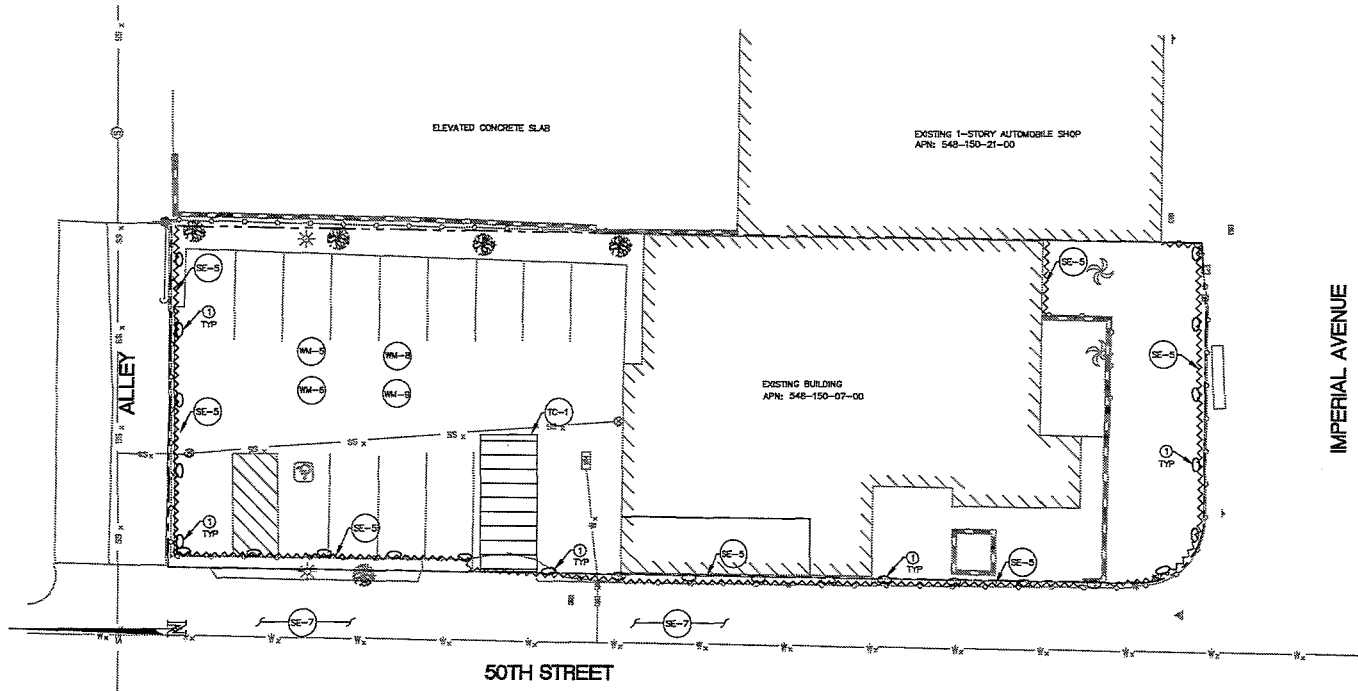
- PROPERTY LINE**
- AREA TO BE DEMOLISHED
- PROPOSED CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING BLOCK WALL
- EXISTING BUILDING OUTLINE
- EXISTING CLEAN OUT
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC RISER
- EXISTING ELECTRIC TRANSFORMER
- EXISTING ELECTRIC VAULT
- EXISTING GAS METER
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING SEWER MANHOLE
- EXISTING SIGN POST
- EXISTING TRAFFIC PULLBOX
- EXISTING GAS VAULT
- EXISTING WIRE ANCHOR
- EXISTING TREE
- EXISTING WATER METER
- EXISTING DOMESTIC WATER LINE
- EXISTING SEWER LINE



**Nasland** Civil Engineering Surveying Land Planning  
 718880 243-7770  
 4246 Ruffner Street  
 San Diego, CA 92111  
 nasland.com

PRIVATE CONTRACT		DEMOLITION PLANS FOR:	
		<b>101 50TH DEMOLITION</b>	
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 1 OF 2 SHEETS		LCI NO.	PROJECT NO.
FOR CITY INSIGHT		DATE	VERSION
DESCRIPTION	BY	APPROVED	DATE FILMED
AS-BUILTS			
CONTRACTOR	DATE STARTED		1804-0208 "KURTZ COORDINATES"
SUPERVISOR	DATE COMPLETED		194-1717 "LAMBERT COORDINATES"
			D-1

SAMUEL WASSBORD R.C.E. NO. 78071 EXP. 09-30-2055 DATE



**LEGEND:**

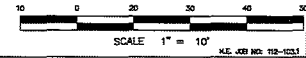
PROPERTY LINE .....	---
GRAVEL BAGS .....	○ ○ ○
FIBER ROLLS PER CALTRANS STORMWATER .....	⊖ SE-3
STABILIZED 10' x 24' CONSTRUCTION ENTRANCE .....	TC-1
STREET SWEEPING AND VACUUMING .....	SE-7
SOLID WASTE MANAGEMENT .....	WM-5
HAZARDOUS WASTE MANAGEMENT .....	WM-6
CONCRETE WASTE MANAGEMENT .....	WM-8
SANITARY-SEPTIC WASTE MANAGEMENT .....	WM-9

**EROSION AND SEDIMENT CONTROL NOTES**

- TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:
- ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED DEMOLITION CONSISTENT WITH THE APPROVED WATER POLLUTION CONTROL PLAN (WPP) FOR CONSTRUCTION LEVEL BMP'S.
  - THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
  - THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
  - EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN OCCURS.
  - THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RAIN EVENT.
  - THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED DEMOLITION OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
  - THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS SITUATION.
  - ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH DEMOLITION SHIFT.
  - THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL, SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER IMPROVEMENTS.

**CONSTRUCTION NOTES**

- GRAVEL BAGS TO BE PLACED ON FIBER ROLLS 10 FEET APART



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PERMITS CONTRACT

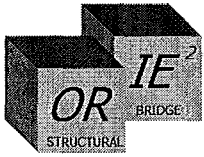
EROSION CONTROL PLANS FOR:

**101 50TH DEMOLITION**

CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 2 OF 2 SHEETS		1.0. NO. ....
PROJECT NO. ....		DATE STARTED .....
FOR CITY ENGINEER		DATE COMPLETED .....
DESCRIPTION	DATE	DATE
APPROVED	DATE	DATE
AS-SUBS	DATE	DATE
CONTRACTOR	DATE	DATE
INSPECTOR	DATE	DATE

104-172  
 LAURENT CORPORATION  
 D-2

SAMUEL WANSBORD R.C.E. NO. 78671 EXP. 09-30-2015 DATE



**Orie<sup>2</sup> Engineering**  
Structural & Bridge Engineers  
9750 Miramar Road, Suite 310  
San Diego, CA 92126

Phone: (858) 335-7643  
Fax: (858) 586-0911

## Structural Calculations

**PROJECT:** 101 50<sup>th</sup> Street – Valencia Library Demo  
(Project # 362.007-13)

Check of (E) 8" Concrete Building Retaining Wall

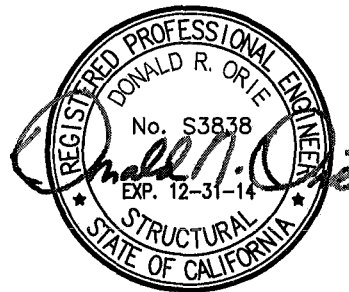
**CLIENT:** Nasland Engineering

**DESIGNED BY:**

JLO

**DATE:** 07/14

*Orie<sup>2</sup> – Structural Engineers*



## Orie<sup>2</sup> Engineering

**Project and Location:** 101 50<sup>th</sup> Street – Valencia Library

Orie<sup>2</sup> Job No. 362.007-12

### Scope:

To provide a check of the existing 4'-2" high, 8" wide reinforced concrete retaining wall on the East side of the building (next to the adjacent auto repair shop) to determine if the wall needs strengthened after the existing Valencia Library building is demoed. Note that the existing 4'-2" concrete retaining wall retains soil and being surcharged by the adjacent building.

There is currently an approximate 2-inch gap between the CMU wall of the Library building and the CMU wall of the Adjacent auto repair building.

### Codes:

California Building Code (2013 CBC)  
American Concrete Institute (ACI 318-11)

### Design Criteria:

Material Properties: (E) Reinforcing Steel (Grade 40) -  $F_y = 40,000$  psi  
(E) Concrete –  $f'_c = 2,000$  psi  
(E) Wall Reinforcing: #5 @ 12" o.c. (Vertical)

### Estimated Soil Parameters:

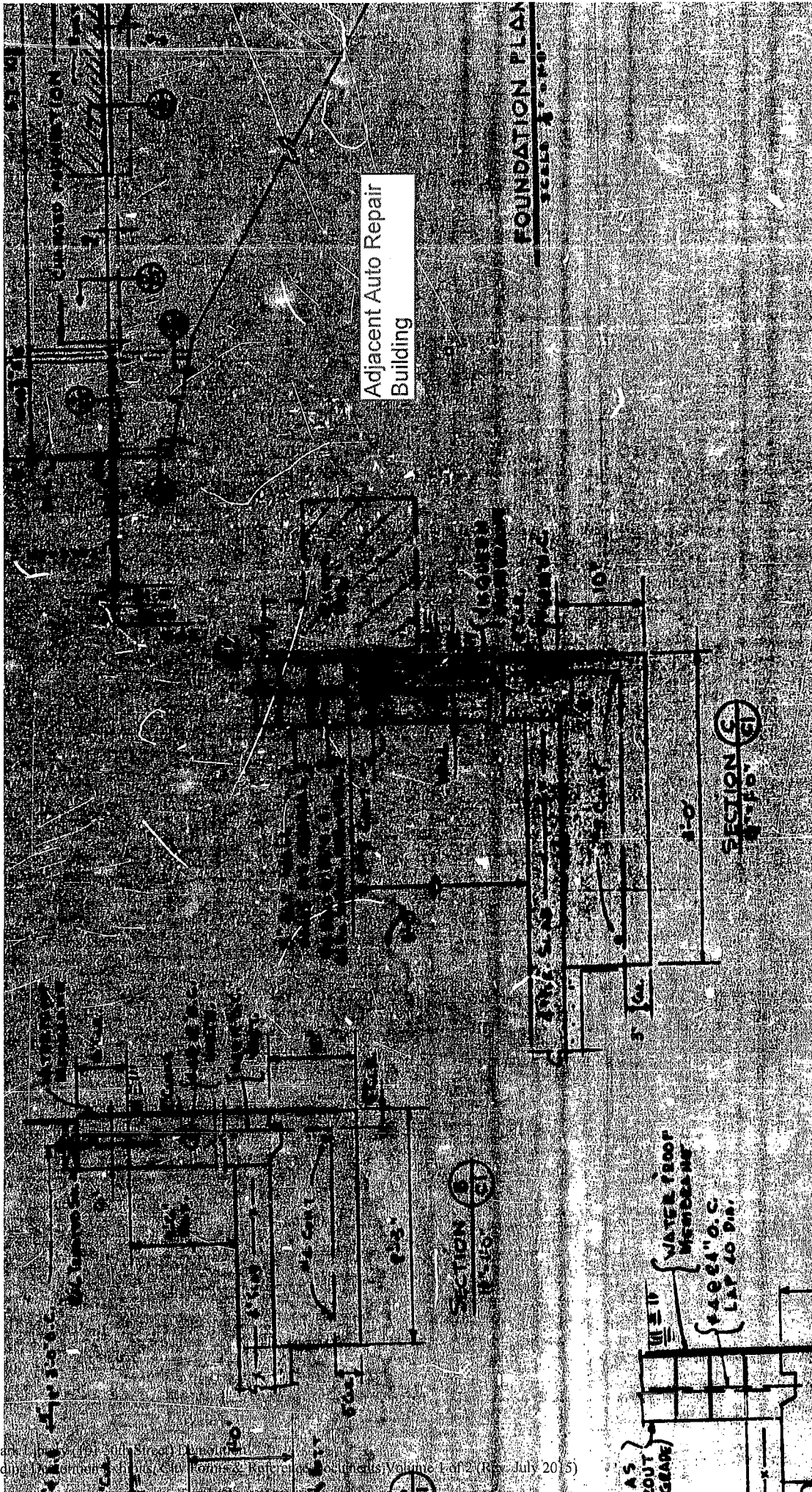
EFP = 35 psf/ft (estimated)  
Passive Pressure = 250 psf/ft. (estimated)  
Allowable Bearing Pressure = 1,500 psf (estimated)

Surcharge Loading from (E) Adjacent building = 2,000 plf (See Calculations)

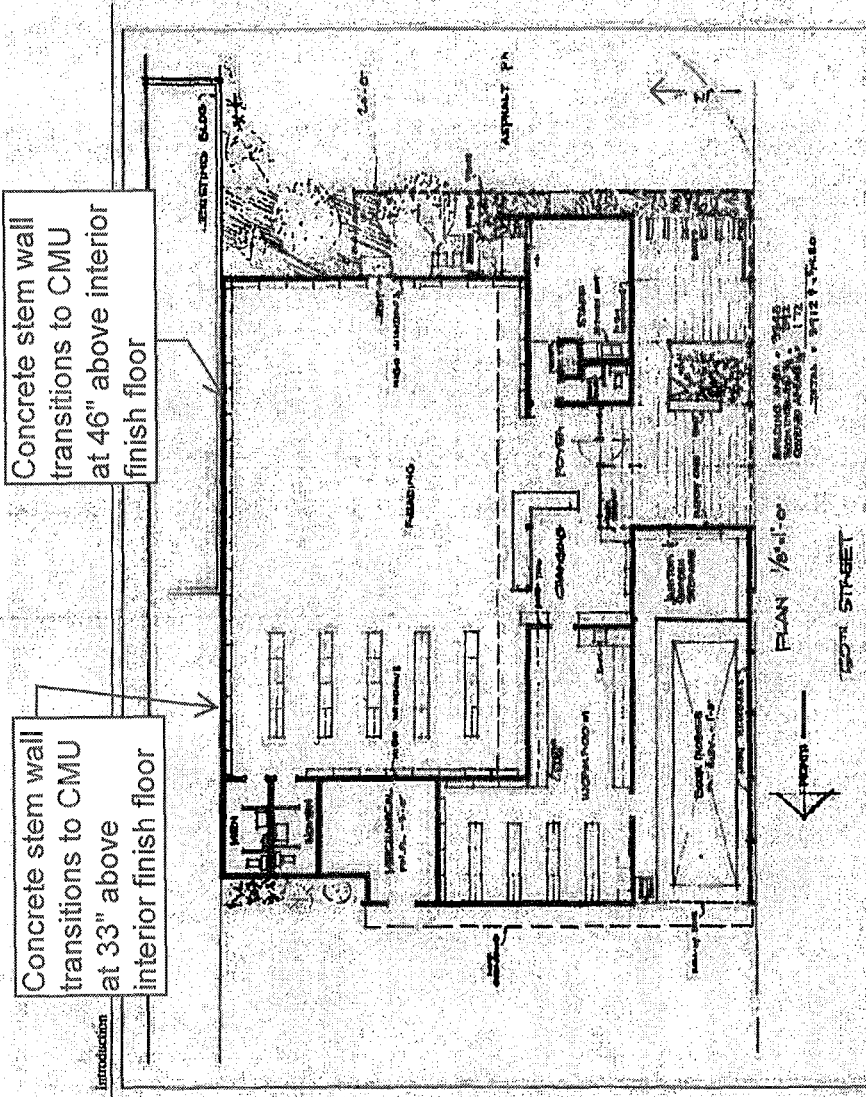
### Findings & Recommendations:

The existing 4'-2" high by 8" thick concrete retaining wall is Structurally Adequate and must be left in place. It is acceptable to demo the roof and CMU wall that is on top of the concrete retaining wall. No further strengthening of the existing concrete retaining wall is required. See the attached structural calculations with "RetainPro" analysis

101 50th Street - Valencia Library



East Wall Section from As-Built Drawings



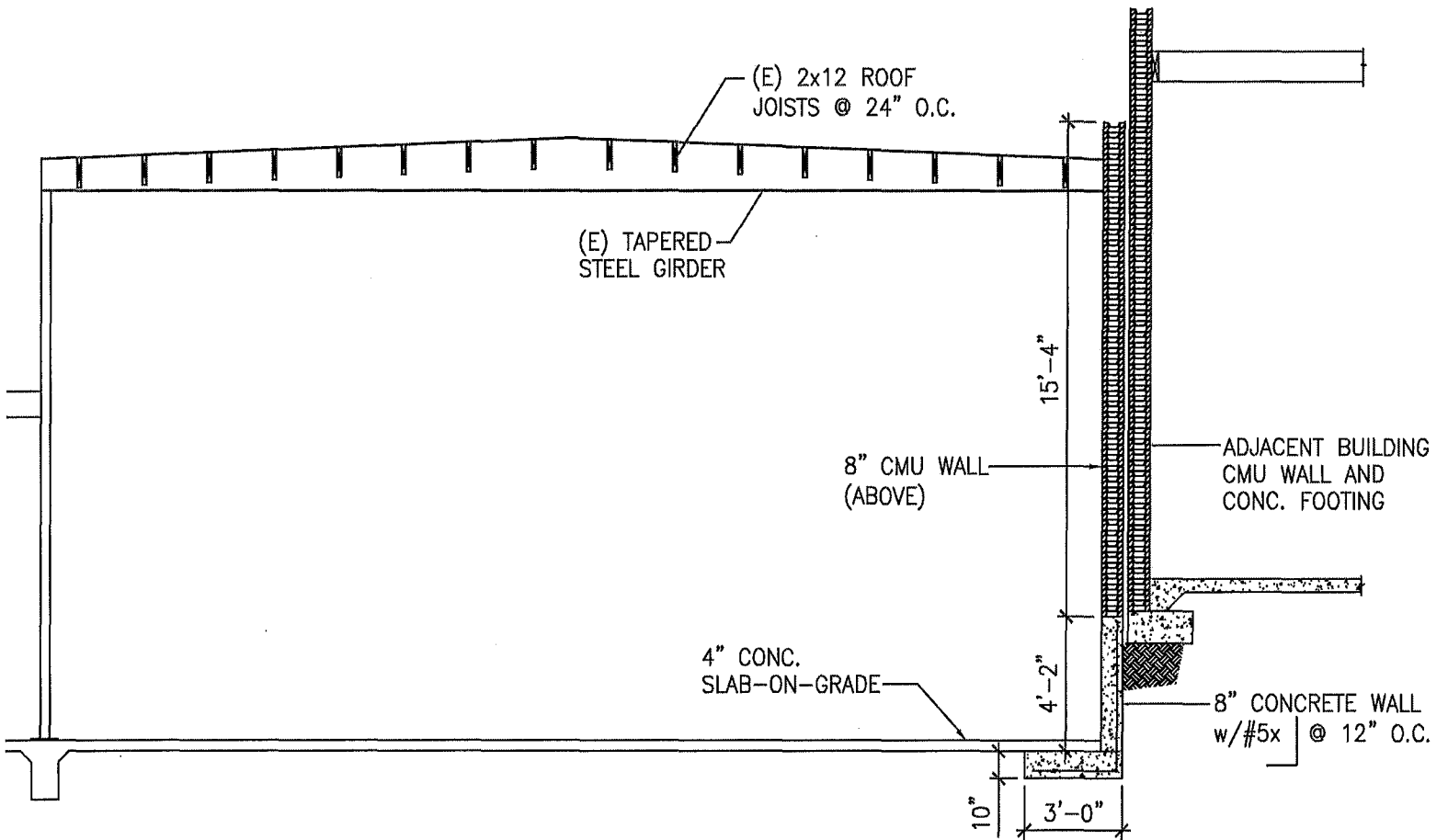
Concrete stem wall transitions to CMU at 46" above interior finish floor

Concrete stem wall transitions to CMU at 33" above interior finish floor

Figure 4. Architect's drawing in plan.

6

101 50TH STREET - VALENCIA LIBRARY



Use menu item Settings > Printing & Title Block to set these five lines of information for your program.

Title 101.50th Street Page 4  
 Job # 362:007 Dsgnr: J Orié Date: 23 JUL 2014  
 Description....  
 (E) 4'-6" Wal

This Wall in File: Z:\PROJECTS\362 - Nasland Engineering\007

RetainPro 10 (c) 1987-2014, Build 10.14.7.9  
 License : KW-0605126  
 License To : ORIEZ ENGINEERING

### Cantilevered Retaining Wall Design

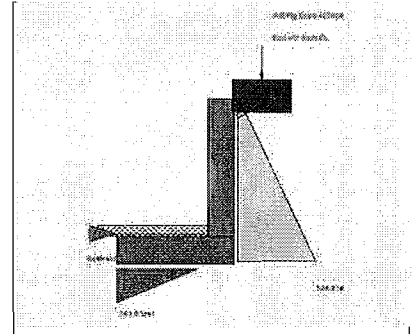
Code: CBC 2013, ACI 318-11, ACI 530-11

#### Criteria

Retained Height = 4.17 ft  
 Wall height above soil = 0.00 ft  
 Slope Behind Wall = 0.00 : 1  
 Height of Soil over Toe = 4.00 in  
 Water height over heel = 0.0 ft

#### Soil Data

Allow Soil Bearing = 1,500.0 psf  
 Equivalent Fluid Pressure Method  
 Heel Active Pressure = 35.0 psf/ft  
 =  
 Passive Pressure = 250.0 psf/ft  
 Soil Density, Heel = 110.00 pcf  
 Soil Density, Toe = 0.00 pcf  
 Footing||Soil Friction = 0.400  
 Soil height to ignore for passive pressure = 12.00 in



#### Surcharge Loads

Surcharge Over Heel = 0.0 psf  
 Used To Resist Sliding & Overturning  
 Surcharge Over Toe = 0.0 psf  
 Used for Sliding & Overturning

#### Axial Load Applied to Stem

Axial Dead Load = 0.0 lbs  
 Axial Live Load = 0.0 lbs  
 Axial Load Eccentricity = 0.0 in

#### Lateral Load Applied to Stem

Lateral Load = 0.0 #/ft  
 ...Height to Top = 0.00 ft  
 ...Height to Bottom = 0.00 ft  
 The above lateral load has been increased by a factor of 1.00  
 Wind on Exposed Stem = 0.0 psf

#### Adjacent Footing Load

Adjacent Footing Load = 2,000.0 lbs  
 Footing Width = 1.50 ft  
 Eccentricity = 0.00 in  
 Wall to Ftg CL Dist = 0.75 ft  
 Footing Type = Line Load  
 Base Above/Below Soil at Back of Wall = -1.0 ft  
 Poisson's Ratio = 0.300

#### Design Summary

Wall Stability Ratios  
 Overturning = 1.49 Ratio < 1.5!  
**Close to 1.5 OK** Slab Resists All Sliding !

Total Bearing Load = 792 lbs  
 ...resultant ecc. = 9.67 in

Soil Pressure @ Toe = 761 psf OK  
 Soil Pressure @ Heel = 0 psf OK  
 Allowable = 1,500 psf  
 Soil Pressure Less Than Allowable  
 ACI Factored @ Toe = 913 psf  
 ACI Factored @ Heel = 0 psf  
 Footing Shear @ Toe = 6.5 psi OK  
 Footing Shear @ Heel = 0.0 psi OK  
 Allowable = 67.1 psi

Sliding Calcs Slab Resists All Sliding !  
 Lateral Sliding Force = 588.0 lbs

#### Stem Construction

Design Height Above Ftg ft = 0.00  
 Wall Material Above "Ht" = Concrete  
 Thickness = 8.00  
 Rebar Size = # 5  
 Rebar Spacing = 12.00  
 Rebar Placed at = Edge

#### Design Data

fb/FB + fa/Fa = 0.216  
 Total Force @ Section lbs = 760.4  
 Moment....Actual ft-# = 1,181.8  
 Moment....Allowable = 5,470.9  
 Shear....Actual psi = 10.2  
 Shear....Allowable psi = 67.1  
 Wall Weight = 100.0  
 Rebar Depth 'd' in = 6.19  
 LAP SPLICE IF ABOVE in = 17.44  
 LAP SPLICE IF BELOW in =  
 HOOK EMBED INTO FTG in = 7.83

#### Masonry Data

f'm psi =  
 Fs psi =  
 Solid Grouting =

Modular Ratio 'n' =  
 Short Term Factor =  
 Equiv. Solid Thick. =  
 Masonry Block Type = Medium Weight  
 Masonry Design Method = ASD

#### Concrete Data

f'c psi = 2,000.0  
 Fy psi = 40,000.0

#### Load Factors

Building Code CBC 2013, ACI  
 Dead Load 1.400  
 Live Load 1.700  
 Earth, H 1.700  
 Wind, W 1.000  
 Seismic, E 1.000



Use menu item Settings > Printing & Title Block  
to set these five lines of information  
for your program.

Title 101:50th Street Page 5  
Job # 362:007 Dsgnr: J Ori Date: 23 JUL 2014  
Description....  
(E) 4'-6" Wal

This Wall in File: Z:\PROJECTS\362 - Nasland Engineering\007

RetainPro 10 (c) 1987-2014, Build 10.14.7.9  
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**Cantilevered Retaining Wall Design** Code: CBC 2013,ACI 318-11,ACI 530-11

**Footing Dimensions & Strengths**

Toe Width = 2.33 ft  
Heel Width = 0.67  
Total Footing Width = 3.00  
Footing Thickness = 10.00 in  
Key Width = 0.00 in  
Key Depth = 0.00 in  
Key Distance from Toe = 0.00 ft  
f<sub>c</sub> = 2,000 psi F<sub>y</sub> = 40,000 psi  
Footing Concrete Density = 150.00 pcf  
Min. As % = 0.0018  
Cover @ Top 2.00 @ Btm.= 3.00 in

**Footing Design Results**

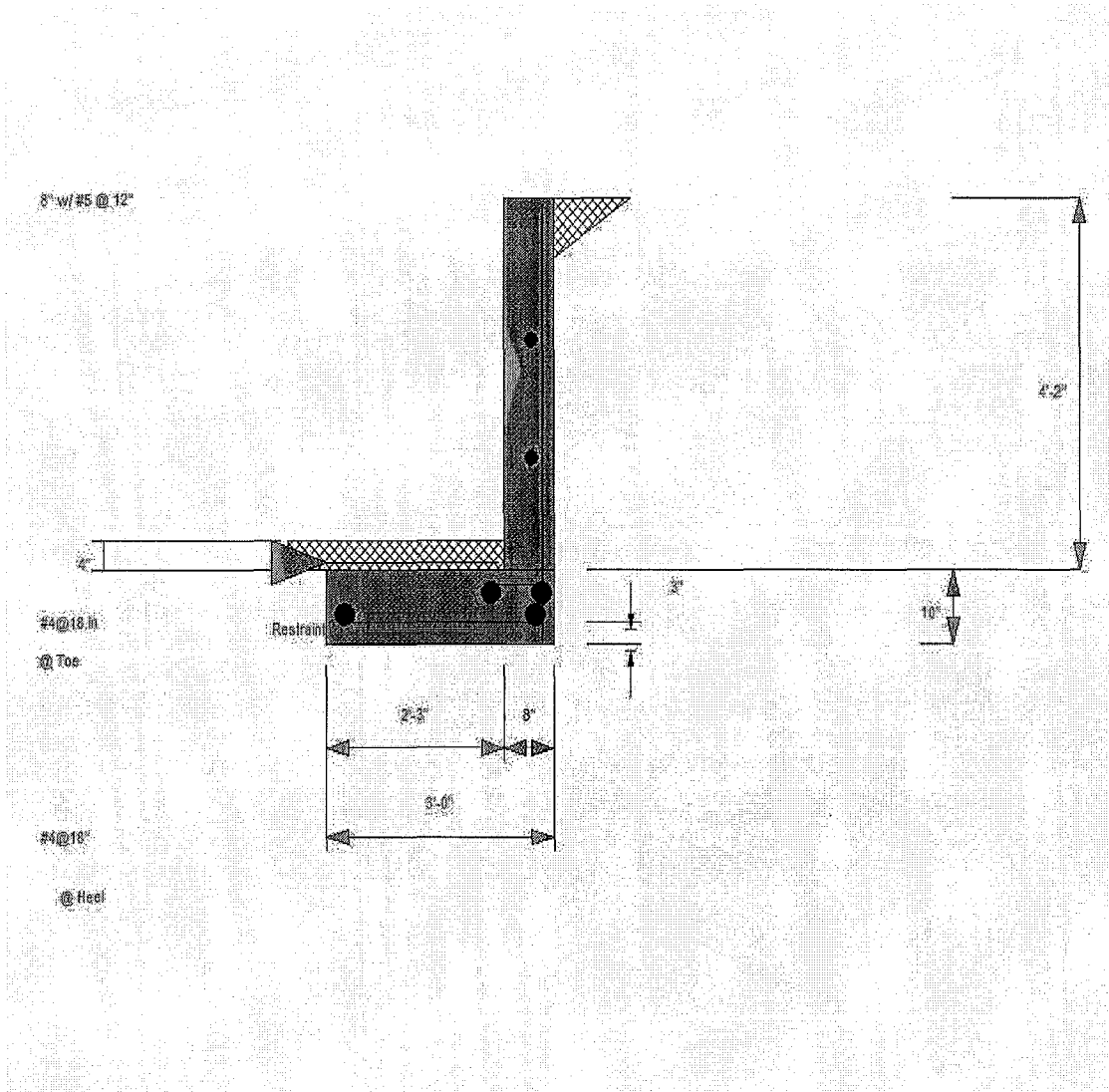
	Toe	Heel
Factored Pressure	= 913	0 psf
Mu' : Upward	= 1,657	0 ft-#
Mu' : Downward	= 616	0 ft-#
Mu: Design	= 1,041	0 ft-#
Actual 1-Way Shear	= 6.50	0.00 psi
Allow 1-Way Shear	= 67.08	67.08 psi
Toe Reinforcing	= # 4 @ 18.00 in	
Heel Reinforcing	= # 4 @ 18.00 in	
Key Reinforcing	= None Spec'd	

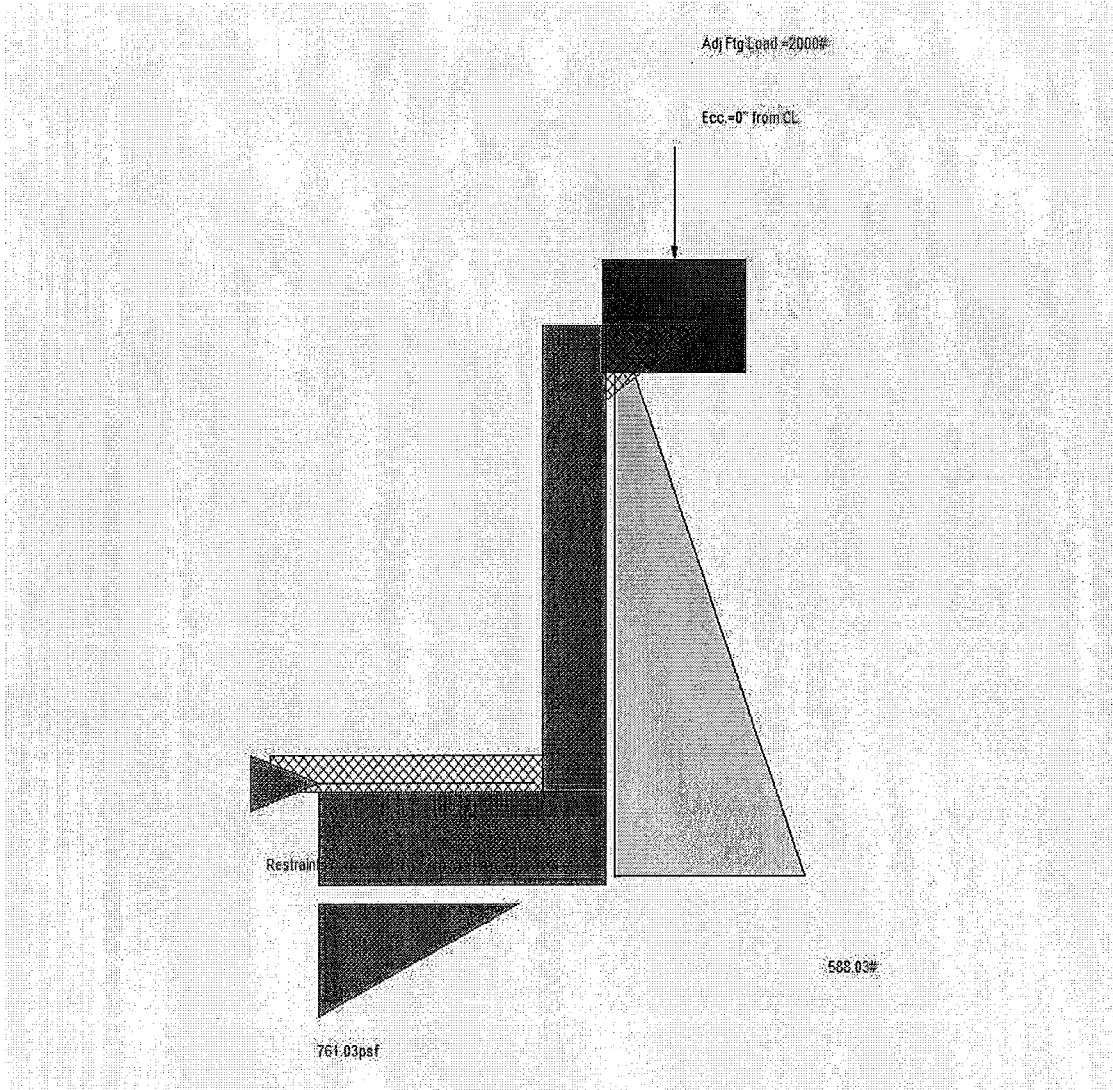
Other Acceptable Sizes & Spacings  
Toe: Not req'd, Mu < S \* Fr  
Heel: Not req'd, Mu < S \* Fr  
Key: No key defined

**Summary of Overturning & Resisting Forces & Moments**

Item	.....OVERTURNING.....			.....RESISTING.....			
	Force lbs	Distance ft	Moment ft-#	Force lbs	Distance ft	Moment ft-#	
Heel Active Pressure	= 438.1	1.67	730.6	Soil Over Heel	= 0.2	3.00	0.5
Surcharge over Heel	=			Sloped Soil Over Heel	=		
Surcharge Over Toe	=			Surcharge Over Heel	=		
Adjacent Footing Load	= 150.0	2.63	394.7	Adjacent Footing Load	= 0.1	3.00	0.4
Added Lateral Load	=			Axial Dead Load on Stem	=		
Load @ Stem Above Soil	=			* Axial Live Load on Stem	=		
	=			Soil Over Toe	= 0.2	1.17	
				Surcharge Over Toe	=		
<b>Total</b>	<b>588.0</b>	<b>O.T.M.</b>	<b>1,125.3</b>	Stem Weight(s)	= 417.0	2.67	1,111.9
	=	=		Earth @ Stem Transitions	=		
<b>Resisting/Overturning Ratio</b>		=	<b>1.49</b>	Footing Weight	= 375.0	1.50	562.5
Vertical Loads used for Soil Pressure =		792.3 lbs		Key Weight	=		
				Vert. Component	=		
				<b>Total =</b>	<b>792.3 lbs</b>	<b>R.M.=</b>	<b>1,675.2</b>

\* Axial live load NOT included in total displayed, or used for overturning resistance, but is included for soil pressure calculation.







**Orie<sup>2</sup> Engineering**  
Structural & Bridge Engineers

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San Diego, CA 92126

Phone #: (858) 335-7643  
FAX #: (858) 586-0911

Project No.: 362.007-14

DATE: 07/15/14

PROJECT: 101 50th Street - CCDC Demo Project

BY: JLO

Estimate Adjacent Building Footing Surcharge Load

Roof DL:

Built-up Roofing	:	4.0 psf
1/2" Plywood	:	1.5 psf
Roof Trusses@ 24" o.c.	:	4.0 psf
Drywall	:	2.2 psf
Misc.	:	2.3 psf
Total:		14.0 psf

Roof LL:

Roof LL : 20.0 psf

Roof Tributary Width = 15 ft

Wall Height = 18 ft  
Wall DL = 80 psf estimated

Roof DL+LL Total at Footing = 510 plf  
Wall DL = 1440 plf

Total Load along Footing = 1950 plf Use: 2000 plf

Allowable Soil Bearing Pressure = 1500 psf

**LEGAL DESCRIPTION**

ALL THAT PORTION OF LOT TWENTY-TWO OF HORTON'S PURCHASE, IN THE ALTA-A-C.S.M. LAND TITLE SURVEY OF HORTON'S PURCHASE, ACCORDING TO MAP NO. 285, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, CALIFORNIA, AS SHOWN ON SAID MAP NO. 285, AND AS MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE WESTERN CORNER OF SAID LOT TWENTY-TWO, THE POINT OF COMMENCEMENT BEING THE POINT OF INTERSECTION OF THE EAST LINE OF SAID LOT TWENTY-TWO WITH THE WEST LINE OF SAID LOT TWENTY-TWO, AND PROCEEDING WEST ALONG SAID WEST LINE TO THE POINT OF COMMENCEMENT.

APR. 1988-89-90-91

**TACED**

- 1. INDICATES PRESENT EASEMENT
- 2. INDICATES EASEMENT TO BE REMOVED
- 3. INDICATES EASEMENT TO BE ADDED
- 4. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 5. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 6. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 7. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 8. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 9. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 10. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 11. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 12. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 13. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 14. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 15. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 16. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 17. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 18. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 19. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY
- 20. INDICATES EASEMENT TO BE ADDED TO THE PROPERTY

**BASIS OF BEARINGS**

ALL BEARINGS ARE TRUE BEARINGS UNLESS OTHERWISE NOTED. ALL DISTANCES ARE IN FEET AND DECIMALS THEREOF. ALL BEARINGS AND DISTANCES ARE AS SHOWN ON THE SURVEY MAP NO. 285, AND AS MORE FULLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE WESTERN CORNER OF SAID LOT TWENTY-TWO, THE POINT OF COMMENCEMENT BEING THE POINT OF INTERSECTION OF THE EAST LINE OF SAID LOT TWENTY-TWO WITH THE WEST LINE OF SAID LOT TWENTY-TWO, AND PROCEEDING WEST ALONG SAID WEST LINE TO THE POINT OF COMMENCEMENT.

**STREET DEDICATION NOTES**

- 1. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 2. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 3. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 4. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 5. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 6. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 7. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 8. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 9. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.
- 10. INDICATES PORTION OF STREET, BEING DEDICATED FOR CITY OF SAN DIEGO, CALIFORNIA.

**TITLE REPORT ITEMS**

REFERENCE IS MADE TO THE TITLE COMMITMENT PROVIDED BY FIRST AMERICAN TITLE COMPANY AND OTHER TITLE INSURANCE POLICIES AND ENDORSEMENTS. THE FOLLOWING ARE EXCEPTED AND APPROVED BY SAID COMMITMENT:

1. EASEMENTS
2. EASEMENTS
3. EASEMENTS
4. EASEMENTS
5. EASEMENTS
6. EASEMENTS
7. EASEMENTS
8. EASEMENTS
9. EASEMENTS
10. EASEMENTS

**SURVEYOR'S NOTES**

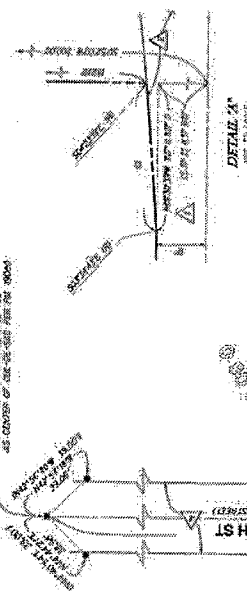
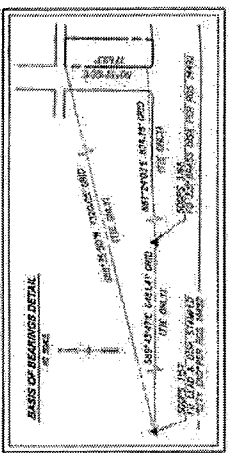
1. CALCULATED AREA OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
2. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
3. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
4. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
5. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
6. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
7. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
8. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
9. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:
10. THE FOLLOWING LAND RECORDS REQUIREMENTS SHALL APPLY TO THE PROPERTY OF THIS SURVEY:

**TITLE MATTERS**

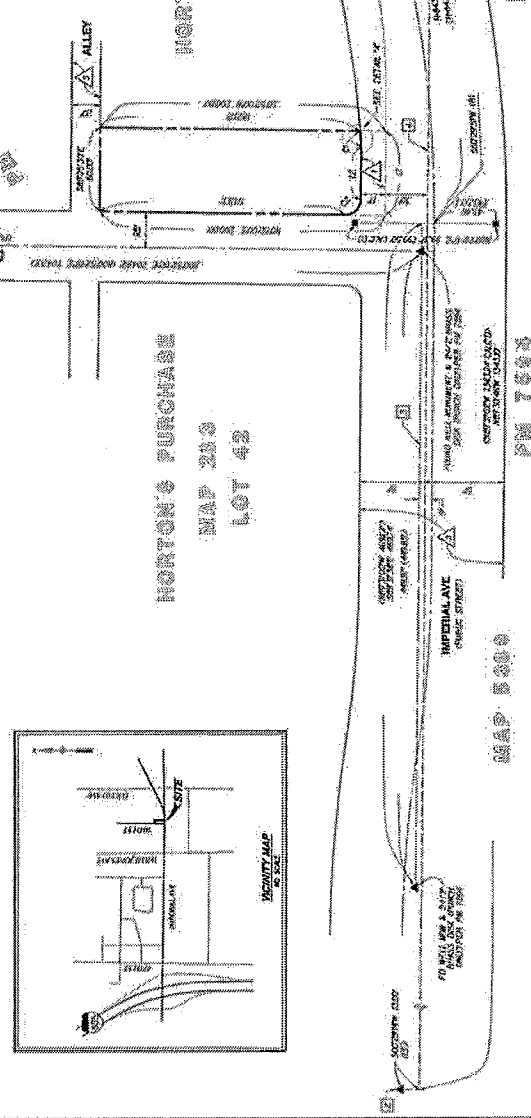
1. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
2. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
3. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
4. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
5. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
6. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
7. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
8. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
9. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.
10. THE SIZE OF SAID LOTS IS AS SHOWN ON SAID MAP NO. 285.

**SURVEYOR'S STATEMENT**

I, THE SURVEYOR, HAVE PERSONALLY EXAMINED THE SURVEY AND THE INSTRUMENTS AND RECORDS AND HAVE FOUND THEM TO BE CORRECT AND ACCURATE. I HAVE ALSO EXAMINED THE ORIGINAL RECORDS AND HAVE FOUND THEM TO BE CORRECT AND ACCURATE. I HAVE ALSO EXAMINED THE ORIGINAL RECORDS AND HAVE FOUND THEM TO BE CORRECT AND ACCURATE.

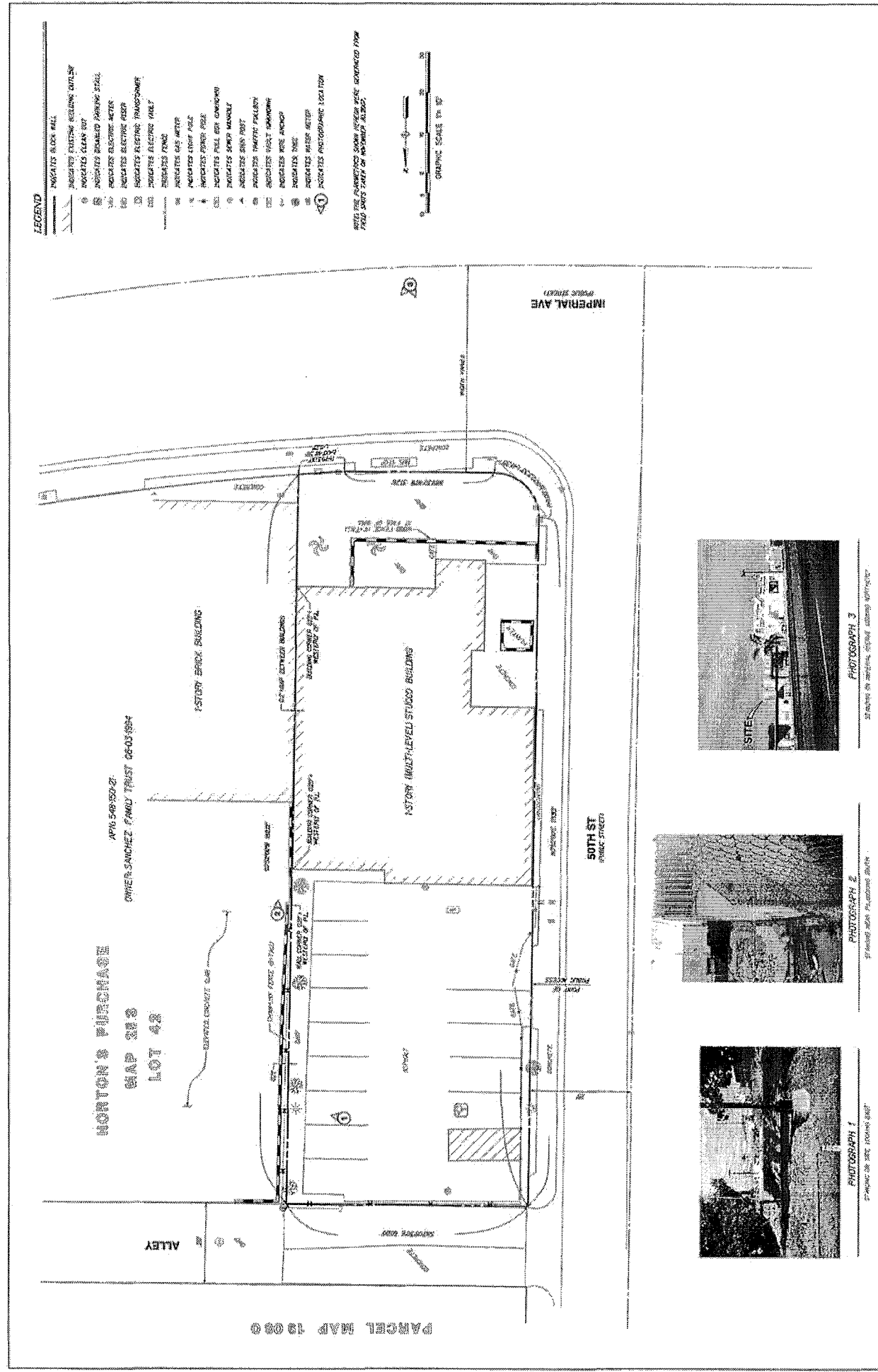


NAME	BEARING	DISTANCE	MARK
1	N 00° 00' 00" E	100.00	IRON NAIL
2	S 00° 00' 00" W	100.00	IRON NAIL
3	S 00° 00' 00" W	100.00	IRON NAIL
4	N 00° 00' 00" E	100.00	IRON NAIL



ALTA-A-C.S.M. LAND TITLE SURVEY OF HORTON'S PURCHASE ACCORDING TO MAP NO. 285, IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA.

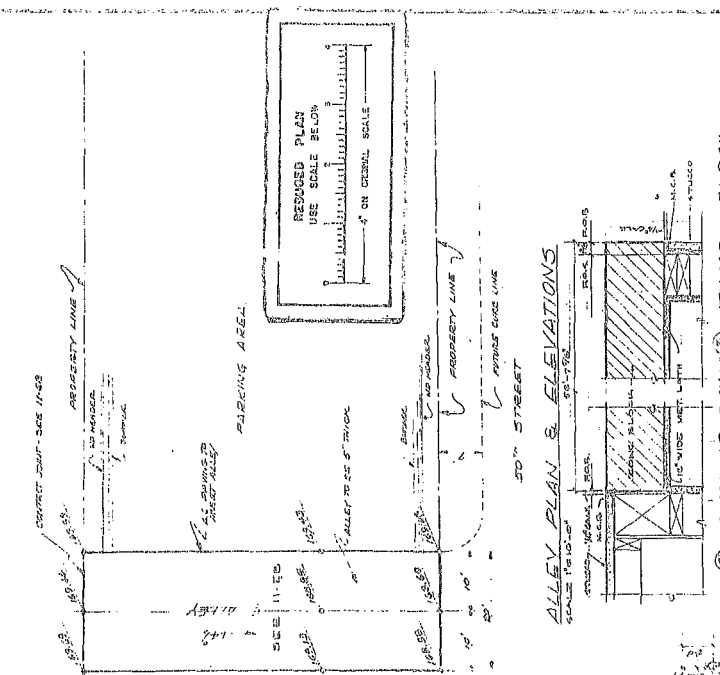
**RICK**  
SURVEYING & ENGINEERING  
12345 MAIN STREET  
SAN DIEGO, CA 92101  
TEL: (619) 555-1234



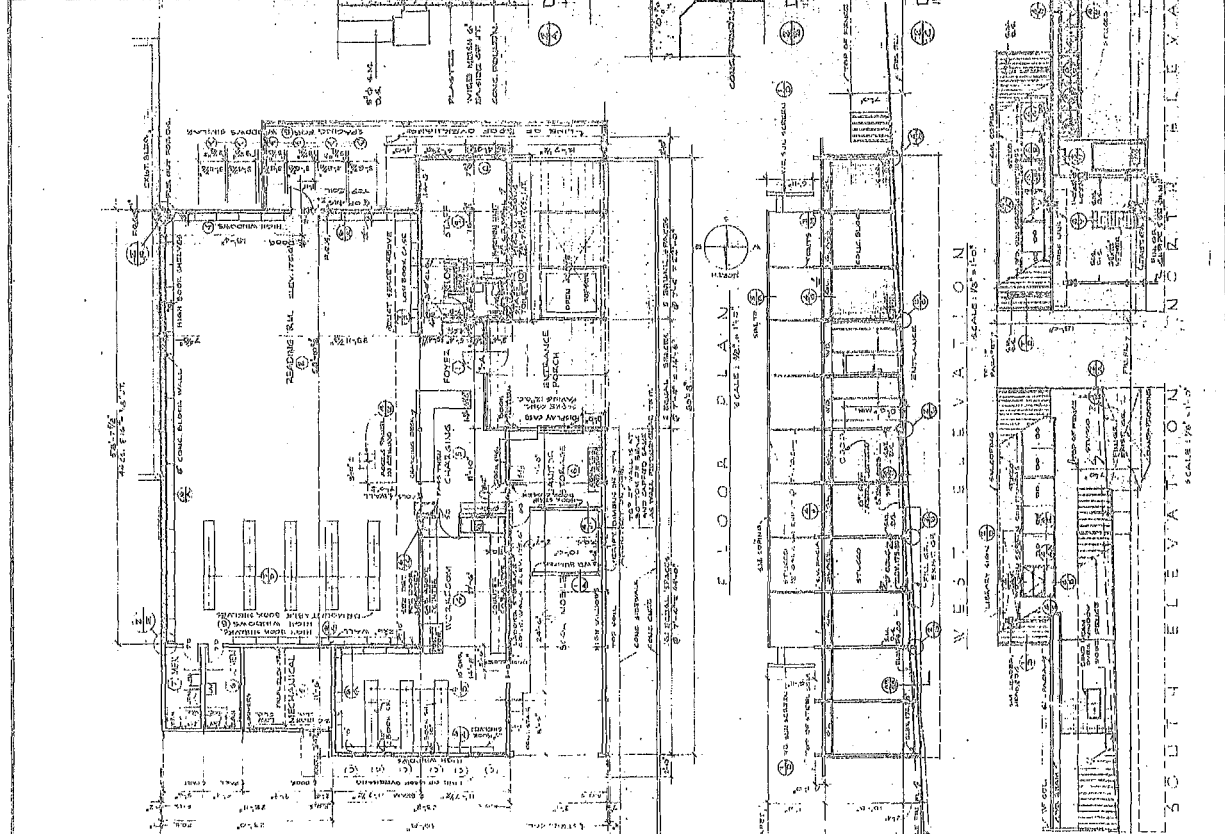
		1. DATE 2. TIME 3. LOCATION 4. PHOTOGRAPHER	
5. PHOTOGRAPHER 6. PHOTOGRAPHER 7. PHOTOGRAPHER 8. PHOTOGRAPHER		9. PHOTOGRAPHER 10. PHOTOGRAPHER 11. PHOTOGRAPHER 12. PHOTOGRAPHER	
<b>ALTA-ACSM LAND TITLE SURVEY</b> <b>OF A PORTION OF LOT 42 OF HORTON'S PURCHASE ACCORDING TO MAP NO. 283</b> <b>IN THE CITY OF SAN DIEGO, COUNTY OF SAN DIEGO, STATE OF CALIFORNIA</b>			
<b>HORTON'S PURCHASE</b> <b>MAP 283</b> <b>LOT 42</b>		<b>APR 16 5:40:50-21</b> <b>ORTIZ, SANCHEZ, FAMILY TRUST 06-01-1984</b>	
<b>PANEL MAP 14080</b>			
<b>50TH ST (PUBLIC STREET)</b>			
<b>IMPERIAL AVE (PUBLIC STREET)</b>			
<b>ALLEY</b>			
<b>1-STORY BRICK BUILDING</b>			
<b>1-STORY MULTILEVEL STUCCO BUILDING</b>			
<b>PHOTOGRAPH 1</b> PHOTOGRAPH 2 PHOTOGRAPH 3			
<b>2</b> OF 2 SHEETS			



FINISH		SCHEDULE		REMARKS	
ROOM	FLOOR	BASE	WALL	CEILING	DOOR
1 FOYER	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
2 READING	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
3 CHARGING	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
4 REST ROOM	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
5 MECHANICAL	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
6 WOMEN	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
7 MEN	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
8 JANITOR STORAGE	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
9 STAFF	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
10 STAFF TOILET	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK
11 BOOKSHOPS	VINYL	2 BRICK	2 BRICK	2 BRICK	2 BRICK

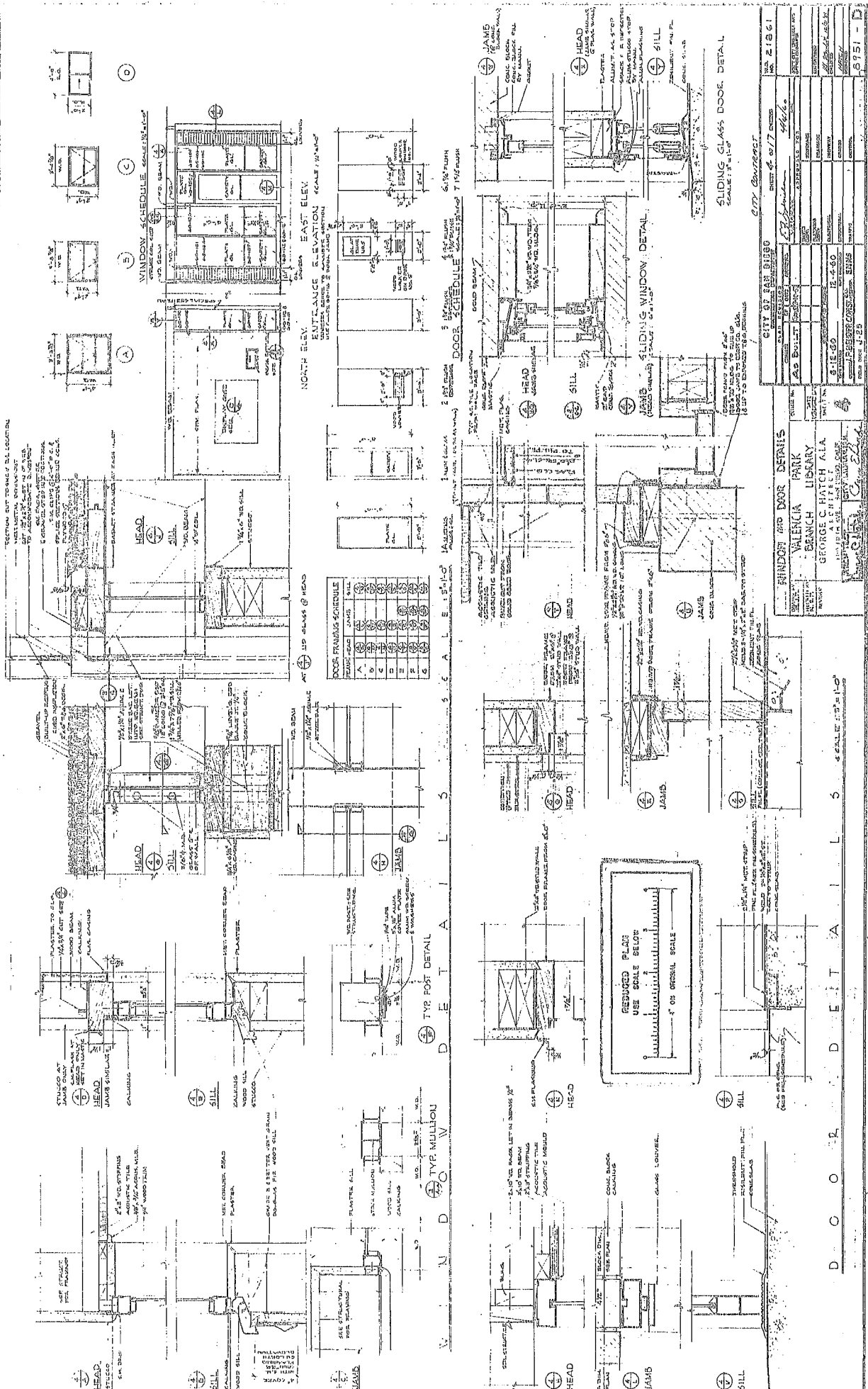


CITY OF SAN DIEGO		SCHEDULE	
DATE	BY	DATE	BY
6-12-60	...	...	...
...	...	...	...









**DOOR FRAMING SCHEDULE**

NO.	TYPE	FINISH	GLASS	GLASS TYPE	GLASS COLOR
1	WOOD	PAINT	GLASS	CL	CL
2	WOOD	PAINT	GLASS	CL	CL
3	WOOD	PAINT	GLASS	CL	CL
4	WOOD	PAINT	GLASS	CL	CL
5	WOOD	PAINT	GLASS	CL	CL
6	WOOD	PAINT	GLASS	CL	CL
7	WOOD	PAINT	GLASS	CL	CL
8	WOOD	PAINT	GLASS	CL	CL
9	WOOD	PAINT	GLASS	CL	CL
10	WOOD	PAINT	GLASS	CL	CL

**CITY OF SAN DIEGO**  
**DEPARTMENT OF PUBLIC WORKS**  
**CONSTRUCTION DIVISION**

PROJECT NO. 12-2-60  
 SHEET NO. 21861

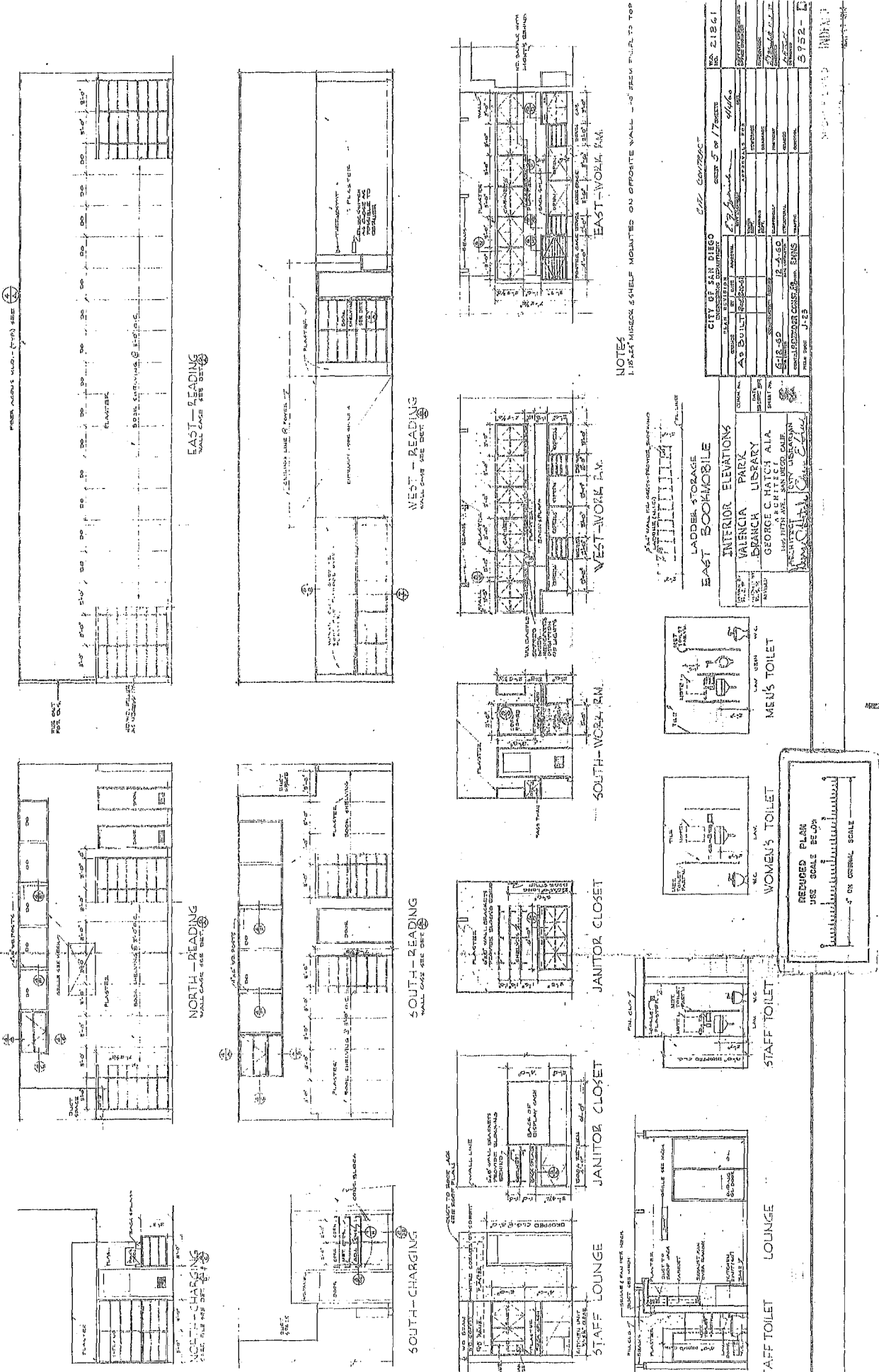
DATE: 12-2-60  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

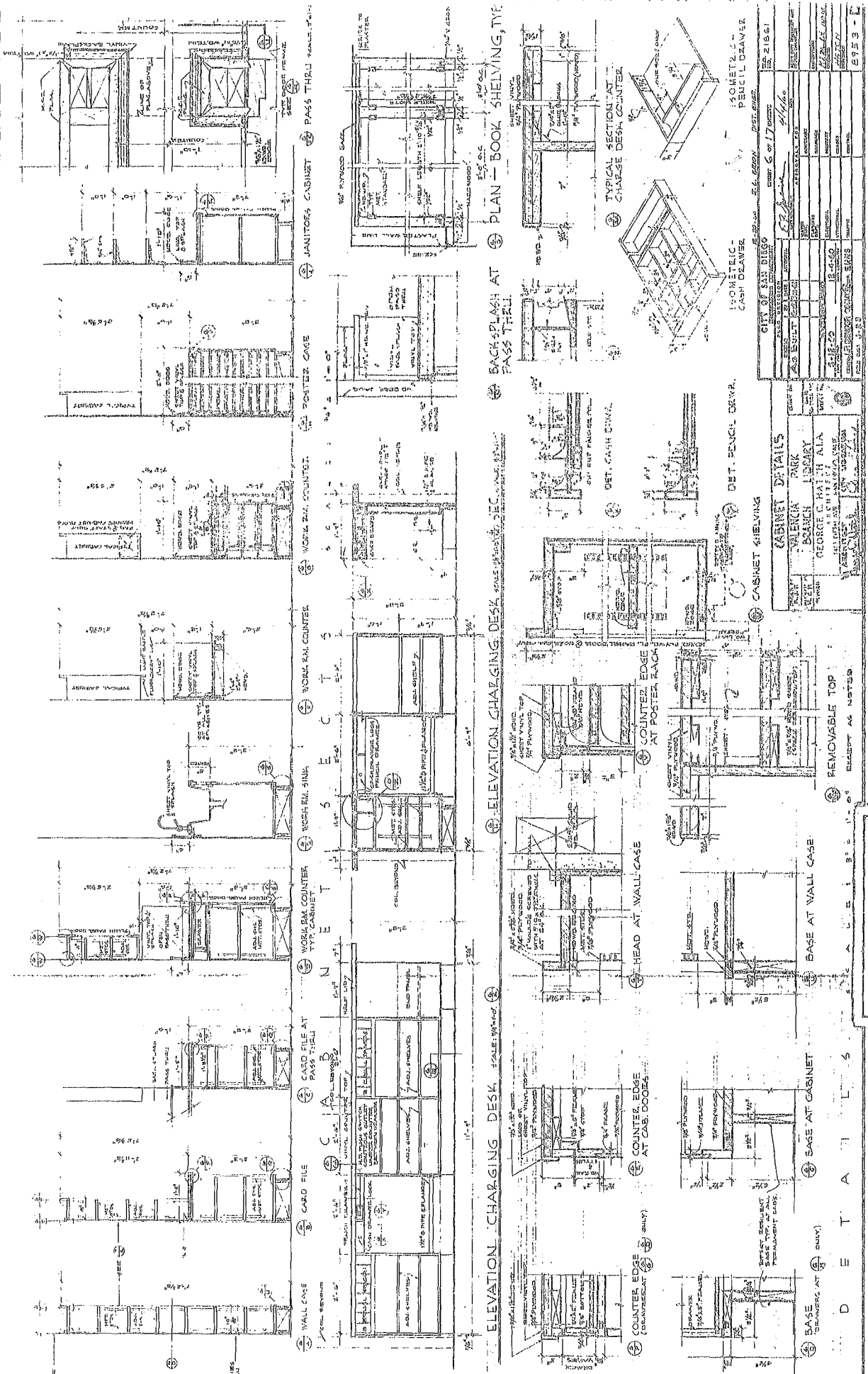
**BRINDON AND DOOR DETAILS**  
**VALENCIA PARK**  
**BRANCH LIBRARY**  
**GEORGE C HATCH AIA**

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

**D O C U M E N T A T I O N**

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

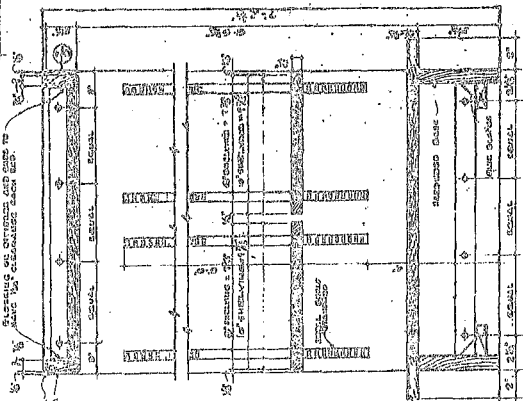
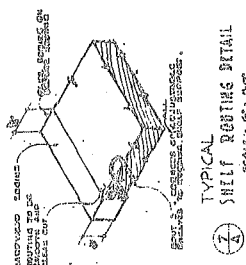
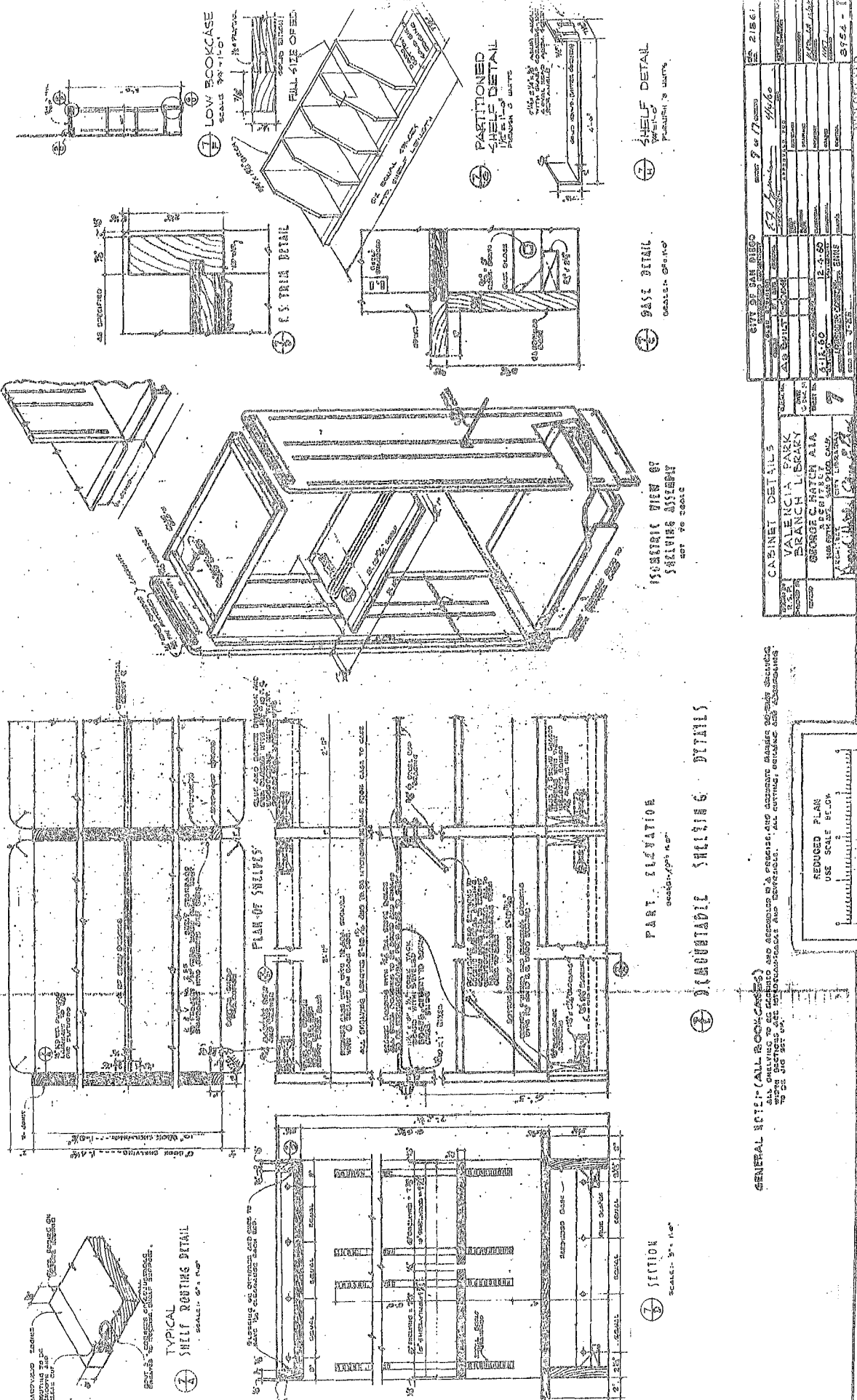




NO. 21861	DATE	BY	CHKD.
NO. 21862	DATE	BY	CHKD.
NO. 21863	DATE	BY	CHKD.
NO. 21864	DATE	BY	CHKD.
NO. 21865	DATE	BY	CHKD.
NO. 21866	DATE	BY	CHKD.
NO. 21867	DATE	BY	CHKD.
NO. 21868	DATE	BY	CHKD.
NO. 21869	DATE	BY	CHKD.
NO. 21870	DATE	BY	CHKD.

CABINET DETAILS	
VALENCIA PARK LIBRARY	NO. 21861
BRANCH	NO. 21862
GEORGE H. HAYES	NO. 21863
ALICIA HAYES	NO. 21864
ALICIA HAYES	NO. 21865
ALICIA HAYES	NO. 21866
ALICIA HAYES	NO. 21867
ALICIA HAYES	NO. 21868
ALICIA HAYES	NO. 21869
ALICIA HAYES	NO. 21870

REDUCED PLAN  
USE SCALE BELOW  
1" = 8'  
ON ORIGINAL SCALE

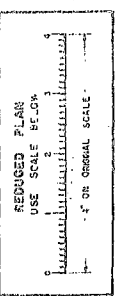


SECTION  
SCALE: 3/4" = 1'-0"

PART. ELEVATION  
SCALE: 1/8" = 1'-0"

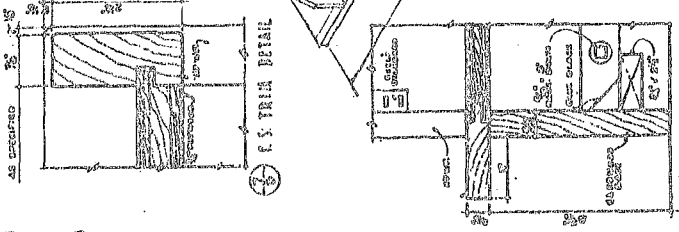
ROUTABLE MILLING DETAILS

GENERAL NOTE: (ALL ROOM CASES) ALL MILLING AND ROUTING TO BE ACCURATE AND ACCORDING TO DRAWINGS. ALL CUTTING, ROUTING AND ROUTING TO BE DONE BY THE CONTRACTOR.

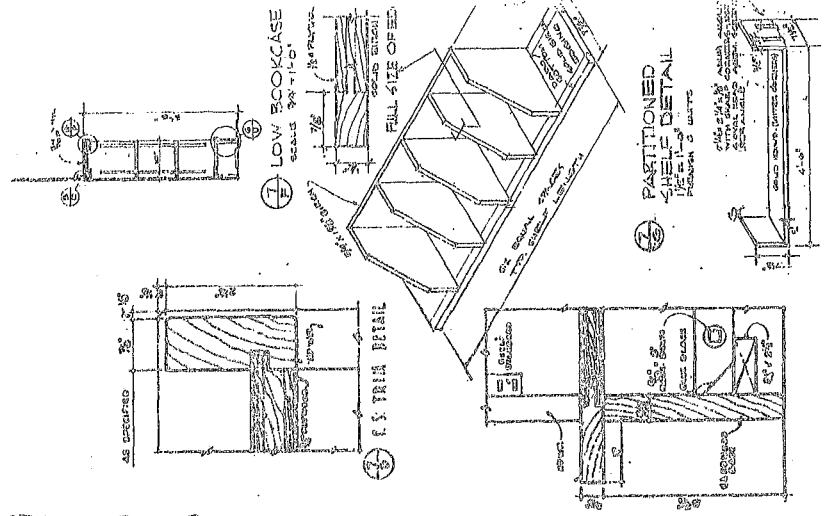
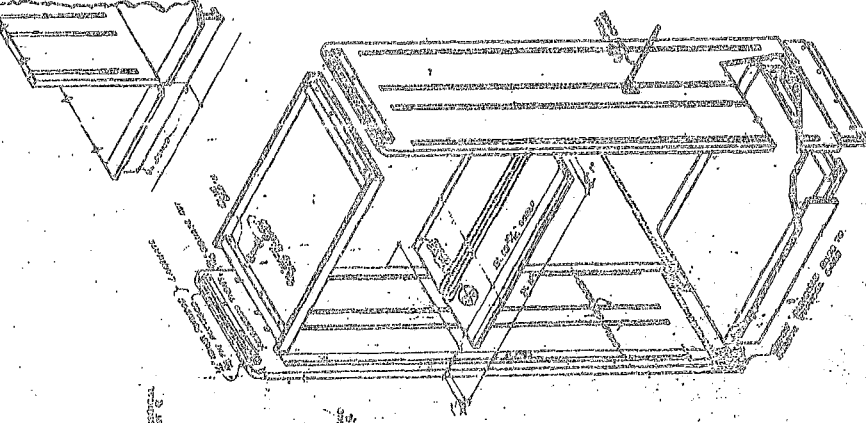


REDUCED PLAN  
USE SCALE 1/4" = 1'-0"  
OR GENERAL SCALE

ISOMETRIC VIEW OF MILLING ASSEMBLY  
NOT TO SCALE



ELEVATION  
SCALE: 1/8" = 1'-0"

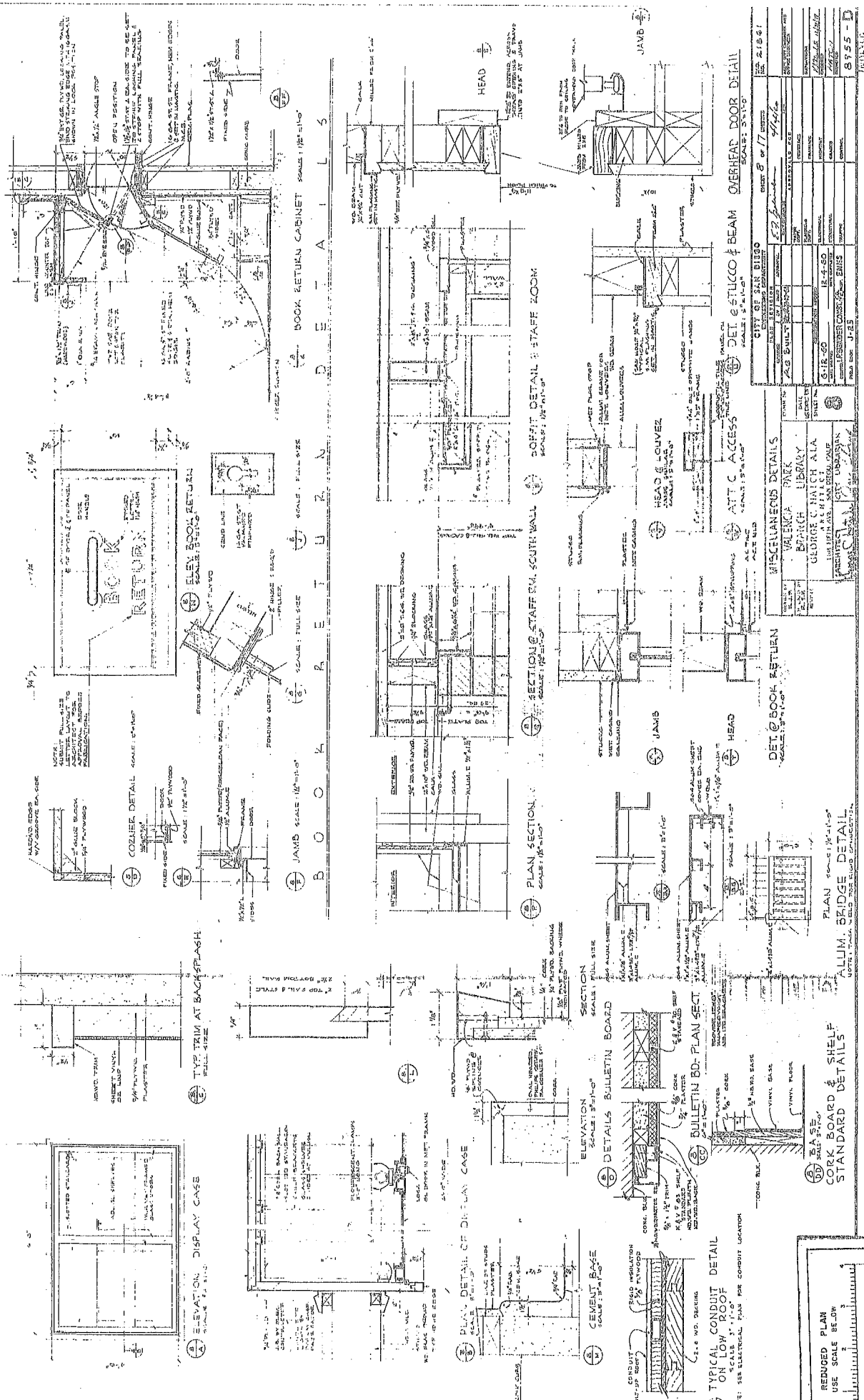


LOW BOOKCASE SHELF DETAIL  
SCALE: 1/8" = 1'-0"

PARTITIONED SHELF DETAIL  
SCALE: 1/8" = 1'-0"

SHELF DETAIL  
SCALE: 1/8" = 1'-0"

CITY OF SAN DIEGO		DATE: 9/17/2015	PROJECT: 21561
PROJECT NO.	21561	DATE	9/17/2015
PROJECT NAME	VALENCIA PARK BRANCH LIBRARY	PROJECT NO.	21561
PROJECT ADDRESS	101 50th Street	DATE	9/17/2015
PROJECT CITY	SAN DIEGO, CA	PROJECT NO.	21561
PROJECT STATE	CA	DATE	9/17/2015
PROJECT COUNTY	SAN DIEGO	PROJECT NO.	21561
PROJECT ZIP	92161	DATE	9/17/2015
PROJECT DRAWN BY	...	PROJECT NO.	21561
PROJECT CHECKED BY	...	DATE	9/17/2015
PROJECT APPROVED BY	...	PROJECT NO.	21561
PROJECT TITLE	CABINET DETAILS	PROJECT NO.	21561
PROJECT SHEET NO.	7	DATE	9/17/2015



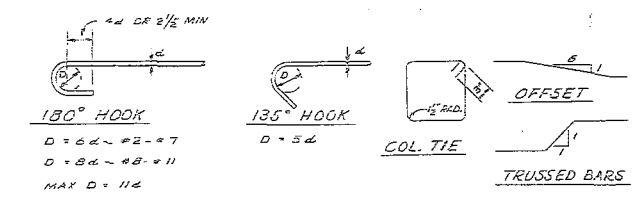
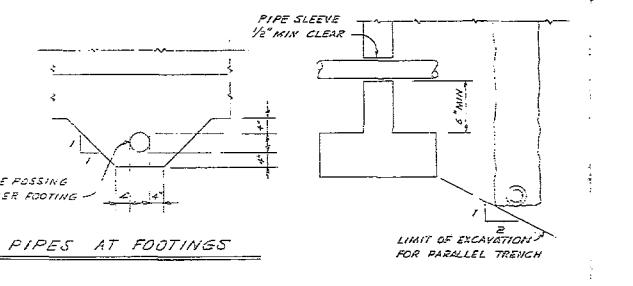
CITY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	
PROJECT NO.	15-0000000000000000
PROJECT NAME	VALENCIA PARK
PROJECT ADDRESS	101.50TH STREET, SAN DIEGO, CA 92161
DATE	06/15/15
SCALE	1/8" = 1'-0"
PROJECT ENGINEER	EB
PROJECT ARCHITECT	DET & STUKCO & BEAM
PROJECT CONTRACTOR	DEMOLITION
PROJECT NUMBER	8955-D

MISCELLANEOUS DETAILS	
VALUATION	VALUATION
PROJECT NO.	15-0000000000000000
PROJECT NAME	VALENCIA PARK
PROJECT ADDRESS	101.50TH STREET, SAN DIEGO, CA 92161
DATE	06/15/15
SCALE	1/8" = 1'-0"
PROJECT ENGINEER	EB
PROJECT ARCHITECT	DET & STUKCO & BEAM
PROJECT CONTRACTOR	DEMOLITION
PROJECT NUMBER	8955-D

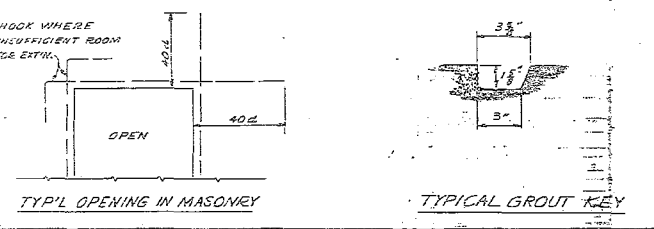
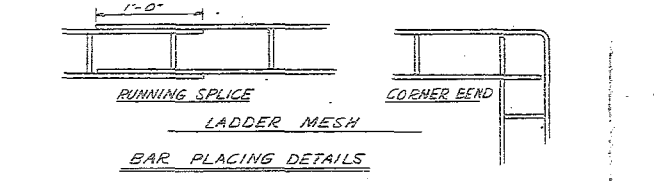
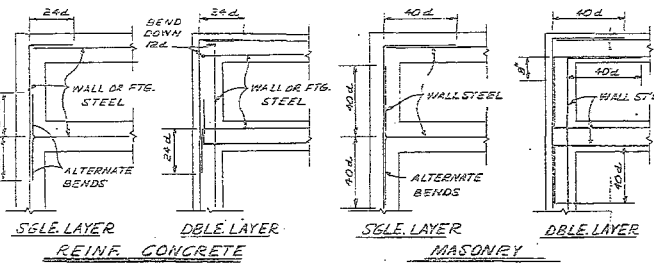
DET. BOOK RETURN	
VALUATION	VALUATION
PROJECT NO.	15-0000000000000000
PROJECT NAME	VALENCIA PARK
PROJECT ADDRESS	101.50TH STREET, SAN DIEGO, CA 92161
DATE	06/15/15
SCALE	1/8" = 1'-0"
PROJECT ENGINEER	EB
PROJECT ARCHITECT	DET & STUKCO & BEAM
PROJECT CONTRACTOR	DEMOLITION
PROJECT NUMBER	8955-D

PLAN, BRIDGE DETAIL	
VALUATION	VALUATION
PROJECT NO.	15-0000000000000000
PROJECT NAME	VALENCIA PARK
PROJECT ADDRESS	101.50TH STREET, SAN DIEGO, CA 92161
DATE	06/15/15
SCALE	1/8" = 1'-0"
PROJECT ENGINEER	EB
PROJECT ARCHITECT	DET & STUKCO & BEAM
PROJECT CONTRACTOR	DEMOLITION
PROJECT NUMBER	8955-D

ALUM. BRIDGE DETAIL	
VALUATION	VALUATION
PROJECT NO.	15-0000000000000000
PROJECT NAME	VALENCIA PARK
PROJECT ADDRESS	101.50TH STREET, SAN DIEGO, CA 92161
DATE	06/15/15
SCALE	1/8" = 1'-0"
PROJECT ENGINEER	EB
PROJECT ARCHITECT	DET & STUKCO & BEAM
PROJECT CONTRACTOR	DEMOLITION
PROJECT NUMBER	8955-D

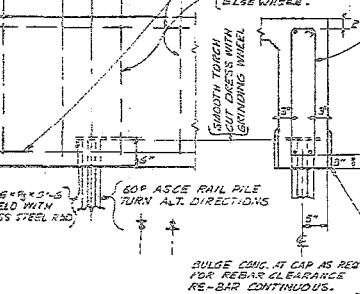
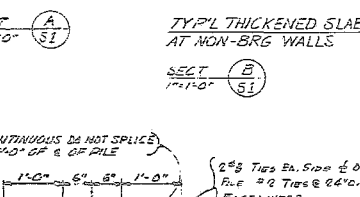
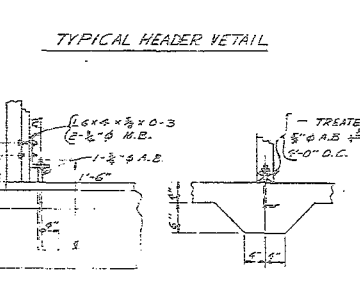
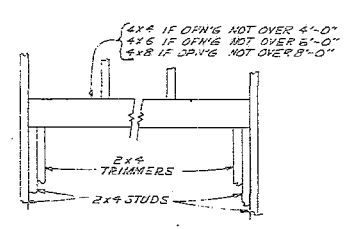
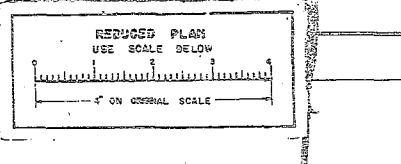
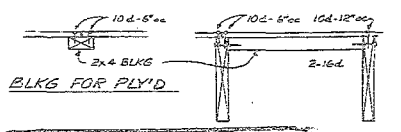
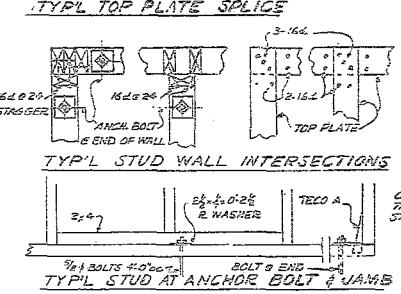
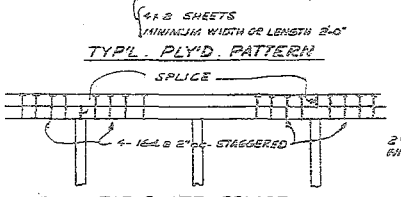
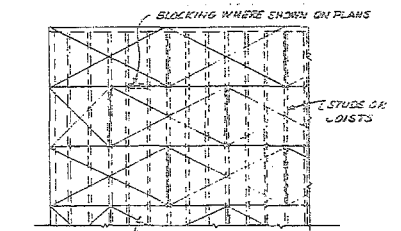


**BAR BENDING DETAILS**



**SCHEDULE OF MINIMUM NAILING FOR WOOD**

STUD TO SILL	3-16d TOE NAIL
CUT-IN BLOCKING TO STUD	2-16d TOE OR END NAIL
WINDOW SILL - END TO STUD	3-16d TOE OR END NAIL
WINDOW SILL - TO CRIPPLES	2-16d END NAIL
HEADERS - TO STUD & END	3-16d TOE OR END NAIL
HEADERS - TO CRIPPLES	2-16d TOE NAIL
TOP PLATE TO STUD	2-16d STUD NAIL
JOIST TO TOP PLATE	2-16d TOE NAIL
CONT. HEADER TO JOIST	3-16d END NAIL
CUT-IN BLOCKING TO JOIST	2-16d TOE OR END NAIL
JOIST BRIDGING	2-10d
DOUBLED STUDS & INTERSECTIONS	16d @ 24" oc
DOUBLED JOISTS	2 ROWS 16d @ 12" oc
DOUBLED PLATES	16d @ 18" oc
1/2 PLYS - EDGE BEARING	3d @ 6" oc - "STRONGHOLD"
1/2 PLYS - INTR. BEARING	3d @ 12" oc - "STRONGHOLD"
1/2 PLYWOOD - EDGE BEARING	10d @ 6" oc - "STRONGHOLD"
1/2 PLYWOOD - INTR. BEARING	10d @ 12" oc - "STRONGHOLD"
1 x 4 LET-IN BRACE TO STUDS & P.	2-5d, EACH



PROJECT NO.	4466
DATE	12-3-60
SCALE	1/2" = 1'-0"
DESIGNED BY	GEORGE C. HATCH AIA ARCHITECT
CHECKED BY	ROBERT C. DORLAND
APPROVED BY	GREER W. FERVER
DATE	12-3-60
SCALE	1/2" = 1'-0"
DESIGNED BY	ROBERT C. DORLAND
CHECKED BY	GREER W. FERVER
APPROVED BY	GREER W. FERVER
DATE	12-3-60
SCALE	1/2" = 1'-0"

**GENERAL NOTES**

**GENERAL**  
 CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS ON JOB. CALL ANY DEVIATIONS OR DISCREPANCIES FROM PLANS TO ATTENTION OF ENGINEER FOR DECISION. ENGINEER MUST APPROVE FOOTING EXCAVATIONS & PILES BEFORE PLACING CONCRETE FOR FOOTING. COMPLY WITH APPLICABLE REGULATIONS OF ALL AGENCIES & GOVERNMENTS HAVING JURISDICTION OVER THE WORK. ALL WORK TO CONFORM WITH REQUIREMENTS OF UNIFORM BUILDING CODE 1955 EDITION (NOTED HEREIN AS U.B.C.), SHALL BE BEST CLASS AND SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR TRADE. CONT'S INSPECTION REQ'D FOR PILE DRIVING OPERATIONS PER U.B.C. SECT. 303.

**CONCRETE**  
 CONCRETES MIN. COMPRESSIVE STRENGTH 2000 PSI. @ 28 DAYS. ROCK 1 1/2" MAX. CITY OF SAN DIEGO CLASS 'A' PORTLAND CEMENT CONCRETE

**REBAR**  
 REBAR WILL COMPLY WITH ASTM A-15 INTERMEDIATE GRADE, AND ASTM A-305. DETAIL FABRICATE & PLACE IN COMPLIANCE WITH A.C.I. MANUAL OF STANDARD PRACTICE 1955.

**FORMS**  
 FORMS FOR CONCRETE FOOTINGS MAY BE PLACED AGAINST NEATLY TRIMMED UNDISTURBED EARTH SUBJECT TO ENGINEER'S APPROVAL. WOOD FORMS SHALL BE TIGHT, UNYIELDING & TRUE TO LINE & GRADE.

**CONCRETE BLOCKS**  
 STANDARD, MODULAR BLOCKS OR LIGHTWEIGHT CONFORMING TO ASTM C-90 GRADE A. BLOCK SHALL BE LAID IN CLASS A MORTAR IN ACCORDANCE WITH U.B.C. SECT'S 2403 (1) & 2415. BLOCKS SHALL BE LAID IN RUNNING BOND EXCEPT WHERE NOTED TO BE STACK BOND, GROUT PER U.B.C. SECT. 2403 (1) & 2415.

**STRUCTURAL STEEL & BOLTS ASTM - A7**  
 SALVAGE STEEL TUBES COMMERCIAL GRADE C100 - BUTT WELDED SA TUBING MIN. YIELD 34,000 P.S.I. ULTIMATE STRENGTH 50,000 P.S.I.

**FABRICATION & ERECTION** IN ACCORDANCE WITH AISC "SPEC. FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" JUNE 1949. ALL CONNECTIONS SHOP WELDED OR RIVETED; FIELD CONNECTIONS WELDED OR BOLTED. CLEAN & PAINT EXPOSED STEEL ONE SHOP COAT OF FULLER RL 5106 WELDERS.

**WELDERS TO HAVE BEEN QUALIFIED FOR AWS WITHIN PREVIOUS 6 MONTHS.**

**LUMBER FOR JOISTS: SEE SPECIFICATIONS**

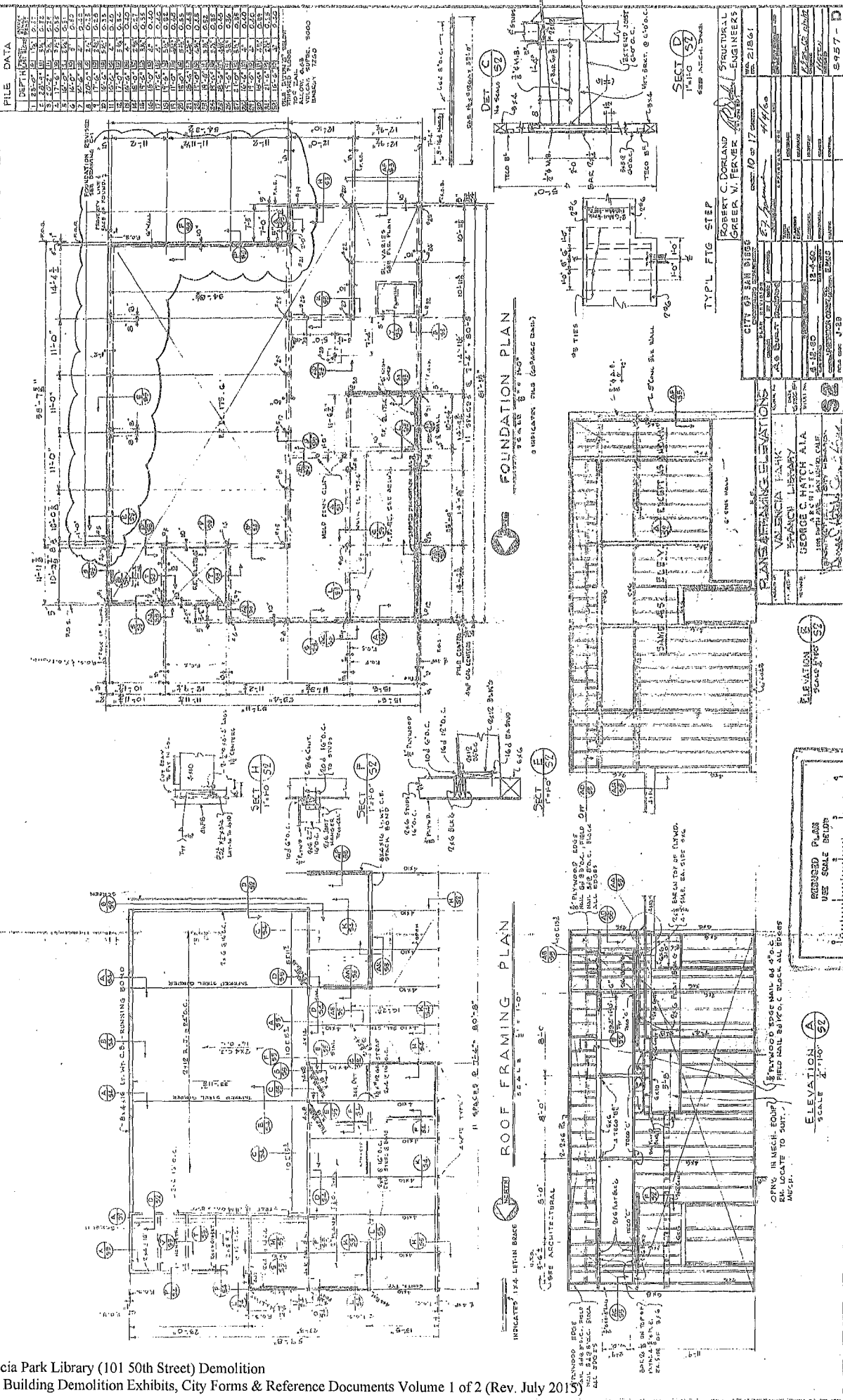
**PLYWOOD SHALL BE "PLYSCORD" BEARING DFFA STAMP. NAILS: SHALL BE COMMON WIRE NAILS EXCEPT NAIL FOR PLYWOOD SHALL BE "STRONGHOLD".**

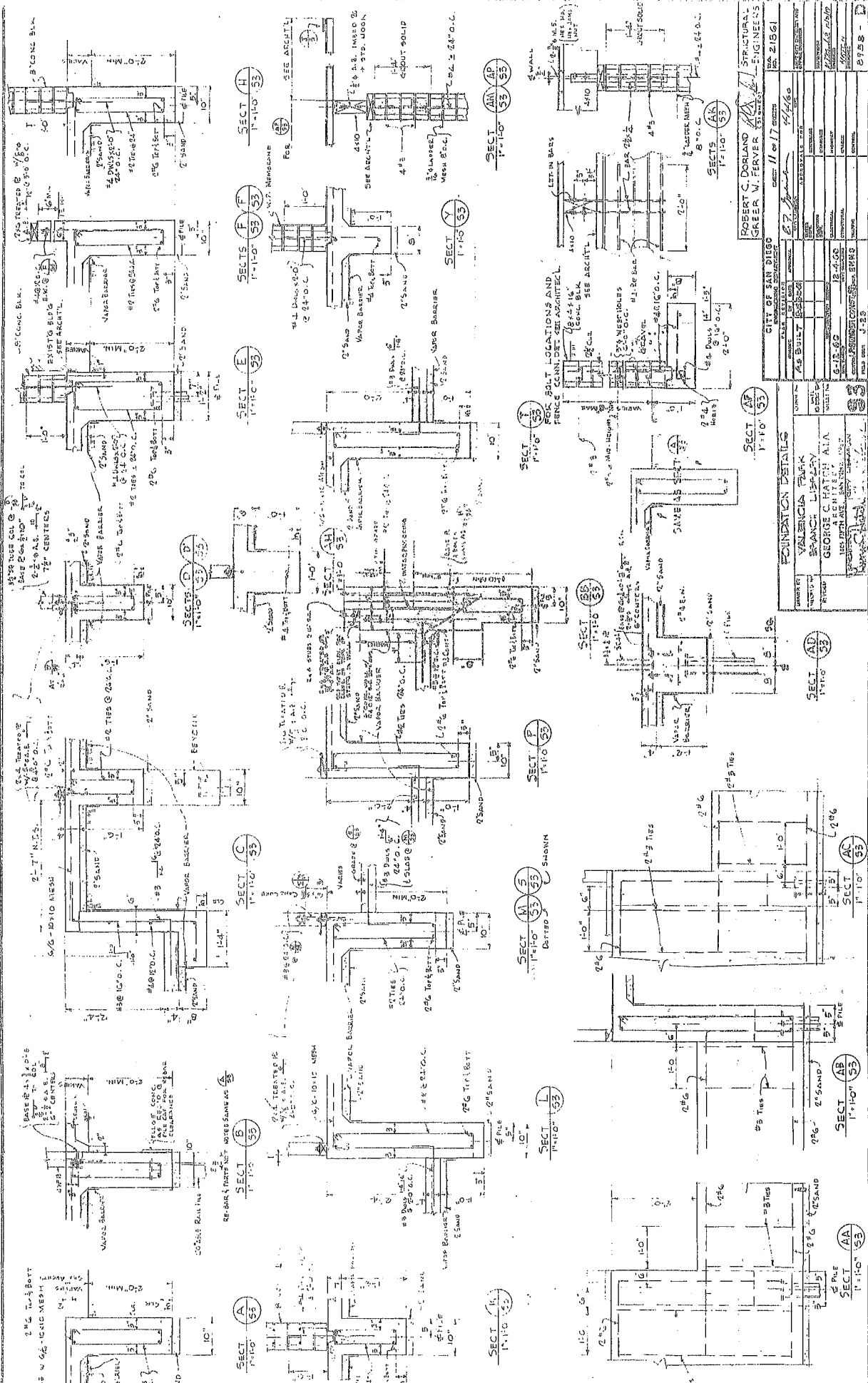
**TEGO CONNECTORS SHALL BE AS MFD. BY TIMBER ENCL. JOIST HANGERS SHALL BE "TEGO-CAL" BRAND. DRILL BOLT HOLES 1/2" LARGER THAN BOLT DIAMETER.**

ROBERT C. DORLAND  
 GREER W. FERVER  
 STRUCTURAL ENGINEERS  
 2186 J.







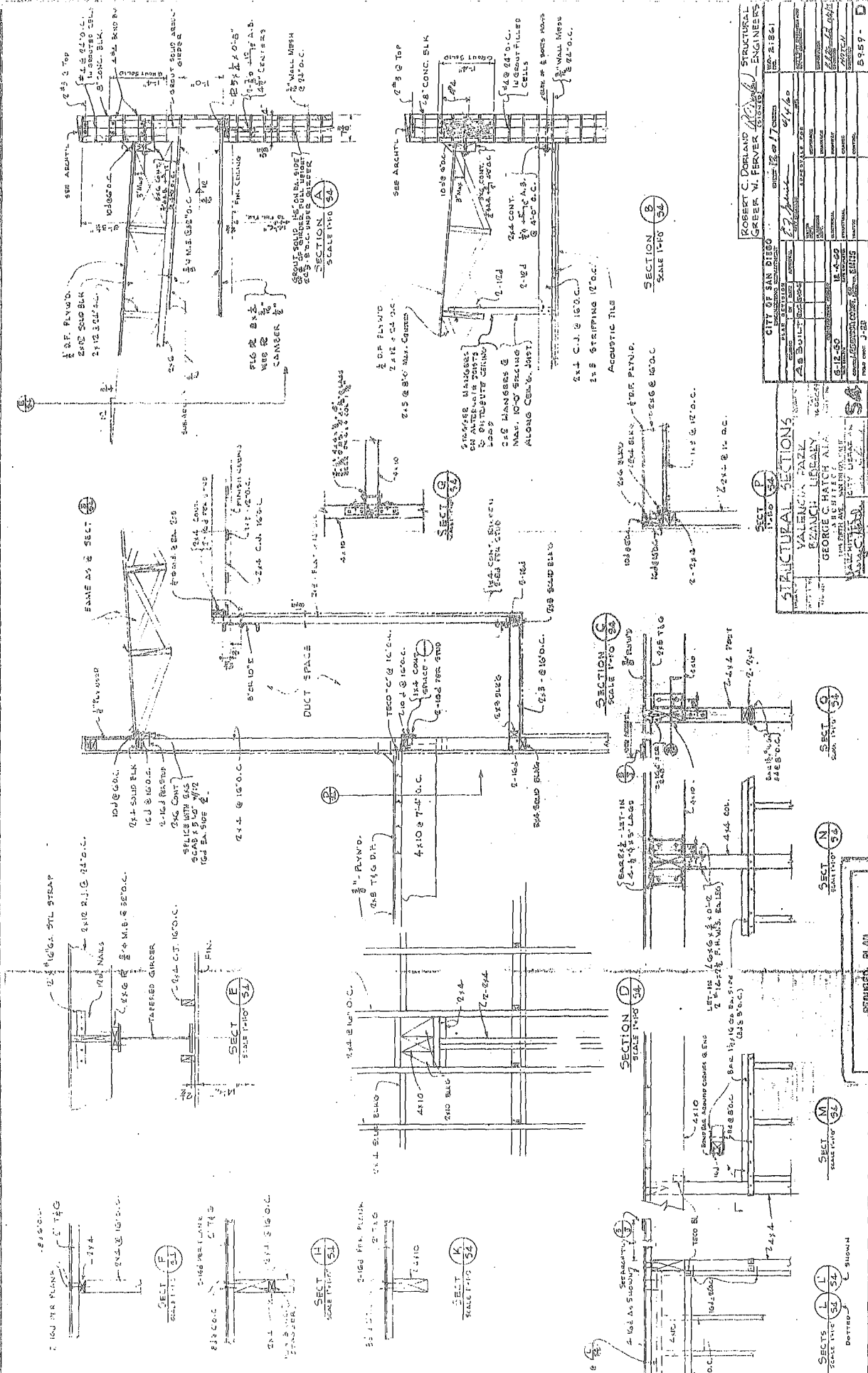


CITY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS  
 DIVISION OF ENGINEERING  
 PROJECT NO. 11-17-00  
 DATE 11/17/00  
 DRAWN BY: [Signature]  
 CHECKED BY: [Signature]  
 APPROVED BY: [Signature]

**FOUNDATION DETAILS**  
 VALENCIA PARK  
 BRANCH LIBRARY  
 GEORGE C. HATCH AIA  
 ARCHITECT  
 1000 PINE STREET, SUITE 100  
 SAN DIEGO, CA 92101  
 PHONE: 619-594-1100  
 FAX: 619-594-1101  
 E-MAIL: gchatch@aia.com

STRUCTURAL ENGINEERS  
 ROBERT C. DORLAND  
 GREER V. FERVER  
 1100 PINE STREET, SUITE 100  
 SAN DIEGO, CA 92101  
 PHONE: 619-594-1100  
 FAX: 619-594-1101  
 E-MAIL: rdorland@rcdorland.com

REDUCED PLAN  
 USE SCALE BELOW  
 1" = 10' ON ORIGINAL SCALE



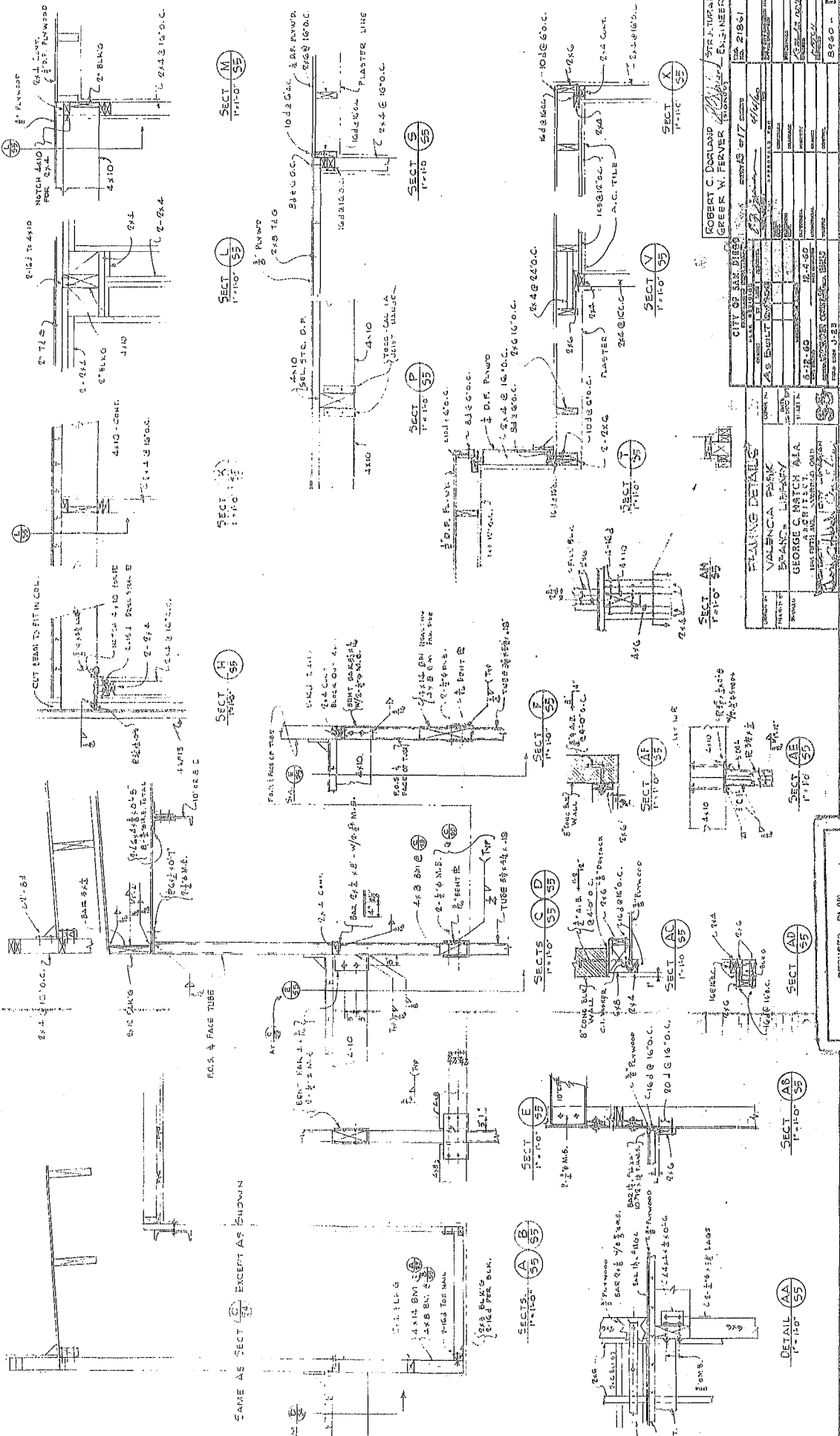
ROBERT C. DORLAND & ASSOCIATES  
 STRUCTURAL ENGINEERS  
 1015 G STREET, SAN DIEGO, CA 92101  
 PHONE: (619) 551-1111  
 FAX: (619) 551-1112  
 WWW: WWW.RCDAS.COM

CITY OF SAN DIEGO  
 DEPARTMENT OF PUBLIC WORKS  
 1201 K STREET, SAN DIEGO, CA 92101  
 PHONE: (619) 441-3333  
 FAX: (619) 441-3334  
 WWW: WWW.CITYOFSD.GOV

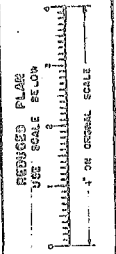
VALENCIA PARK  
 GEORGE C. HATCH AREA  
 101 50th STREET, SAN DIEGO, CA 92101  
 PROJECT NO. 12-00  
 SHEET NO. 12-00-01  
 DATE: 12/15/11  
 DRAWN BY: J. B. B. / J. B. B.  
 CHECKED BY: J. B. B. / J. B. B.  
 SCALE: AS SHOWN

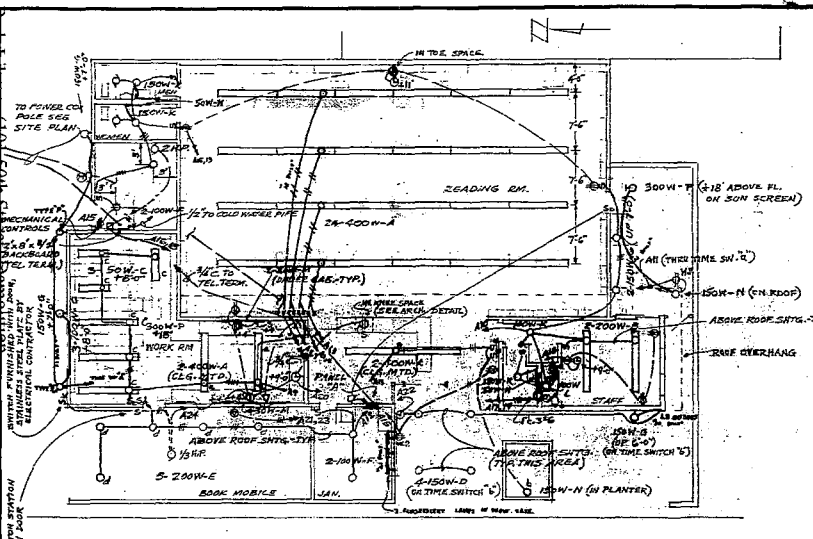
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REPRODUCED FROM  
 THE ORIGINAL RECORDS  
 OF THE CITY OF SAN DIEGO  
 ARCHIVES  
 1700 AVENUE C, SAN DIEGO, CA 92101  
 (619) 441-3333  
 WWW.CITYOFSD.GOV

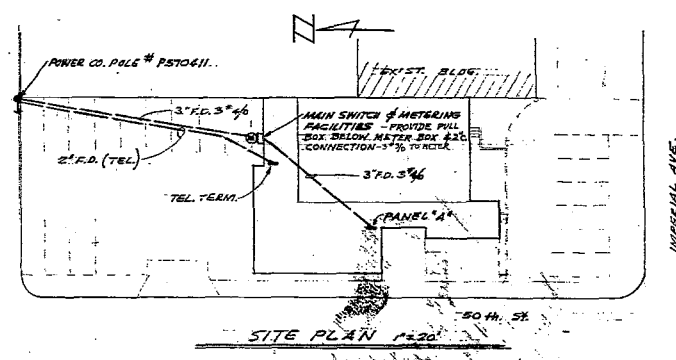


<b>VALENCIA PARK</b> BEANS LIBRARY GEORGE BRITTON AIA 1001 50th Street, Suite 200 Valencia, CA 91355 Phone: 661-251-1111		CITY OF VALLEJO 4176 21961
PROJECT NO. SHEET NO.	DATE DRAWN BY CHECKED BY APPROVED BY	TITLE SCALE DATE
PROJECT: VALLEJO BEANS LIBRARY SHEET: 1 OF 1 DATE: 12/15/10 DRAWN BY: [Signature] CHECKED BY: [Signature] APPROVED BY: [Signature]		

REDUCED PLAN  
 USE SCALE BELOW  
  
 1" = 10'  
 .4" OF ORIGINAL SCALE



FLOOR PLAN 1/8" = 1'-0"

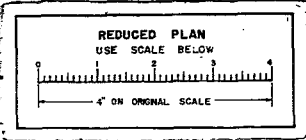


SITE PLAN 1/8" = 1'-0"

CR. NO.	VTR. BEE. UNITS	LUMENS REC.	LOCATION	WATT/LINE	
				A	B
1	20A, 1P	3	READING RM.	1200	
2	"	3	"	1200	
3	"	3	"	1200	1200
4	"	3	"	1200	1200
5	"	3	"	1200	
6	"	3	"	1200	
7	"	3	"	1200	1200
8	"	3	"	1200	1200
9	"	3	"	1200	1200
10	"	3	"	1200	1200
11	20A, 1P	7	WORK ROOM, STORAGE	1250	
12	"	7	STAIR, PASSAGE, TOILET	1100	
13	"	6	EXTERIOR FLOODS	1350	
14	"	7	BOOKMILL, JANITOR STORAGE	1200	
15	"	7	TOILETS, MECHANICAL RM. CH. ROOMS, ENTRY	1650	
16	"	4	STAFF + REPRESENTATIVE	800	
17	"	5	MECHANICAL RM., READING RM.	600	
18	20A, 2P	1	BLOWER MOTOR, 2 H.P.	1400	
19	"	1	KITCHEN UNIT	4130	
20	"	1	PART OF IT	1430	
21	20A, 1P	2	WORK ROOM, CHARGING	700	
22	20A, 2P	1	BOOKMILL	150	
23	20A, 1P	5	ENTRANCE	750	
24	20A, 1P	1	PART OF 21 BOOK MOBILE	150	
25	20A, 1P	1	BOOK MOBILE, 2 H.P.	250	
26	20A, 1P	1	SPIRE KITCHEN UNIT		
27	20A, 1P	1	KITCHEN UNIT		
28	20A, 1P	1	KITCHEN UNIT		
29	20A, 1P	1	KITCHEN UNIT		
30	20A, 1P	1	KITCHEN UNIT		
31	20A, 1P	1	KITCHEN UNIT		
32	20A, 1P	1	KITCHEN UNIT		
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- SYMBOLS**
- CEILING LIGHTING FIXTURE, INCANDESCENT, TYPE & WATTAGE AS INDICATED
  - FLUORESCENT
  - WALL BRACKET, INCANDESCENT
  - CEILING LIGHTING FIXTURE, FLUSH RECESSED
  - FLUSH DUPLEX CONVENIENCE OUTLET, 3-WIRE GROUNDING TYPE (N.P. = WEATHERPROOF)
  - MOTOR, SIZE AS INDICATED
  - MOTOR STARTING SWITCH WITH OVERLOAD TRIP
  - FLUSH RECEPTACLE, 50A, 250V, 3-P. POLARIZED
  - TELEPHONE OUTLET
  - \* LOCK OUTLET WITH 1/2" DIA. SYNCHRONOUS CLOCK IN READING RM, 8" ELSEWHERE
  - 2" SW. SINGLE SWITCH, SINGLE POLE SUBSCRIPT INDICATES LIGHTS CONTROLLED
  - WIRES IN CONDUIT RUN CONCEALED IN WALLS OR CEILING
  - WIRES IN CONDUIT RUN EXPOSED
  - UNDER FLOOR OR ON REBOUND, CROSS HATCHES INDICATE NUMBER OF WIRES IF MORE THAN TWO
  - FLUSH TUMBLER SWITCH, LOCK TYPE S<sub>3</sub> FLUSH DOOR SWITCH
  - FLUSH BUZZER, EDWARDS BUZACALL OR EQUAL 17-0"
  - FLUSH TUMBLER SWITCH, DOUBLE POLE
  - FLUSH RECEPTACLE, 20A, 250V, 4-WIRE POLARIZED THIS LOCK
  - 15' DENOTES HEIGHT ABOVE FLOOR, OR FIN. GR. IN EXTERIOR LOCATIONS

FIXTURE DESIGNATION	MANUFACTURER & CAT. NO.	TYPE	FIXTURE WATTAGE	REMARKS
A	BATH SLIMLUX * 65253	STEM PENDENT	175	7-1/2" STUB * 65252 (18, 430MA, STD. COOL. WHITE LAMPS
B	BATH SLIMLUX * 65254	CEILING MTD.	2/75	430MA, STD. COOL. WHITE LAMPS
C	BATH * 442 26 & * 442 22	STEM PENDENT	175	" " " " " "
D	LIGHTOLIER * 4048	CEILING	150	" " " " " "
E	GEISSE WINDS * YKHA127	"	200	WITH VOROI COAL GUIDE-AN GUARD
F	BRYANT * 5228	"	VARIABLE	J.F. LAMP
G	HOLOPHANE * 415	WALL BRACKET	150	CLEAR LAMP
H	LIGHTOLIER * 10232	WALL	3/20	4 1/2" x 4"
K	RE-METAL * 33625L	CEILING	VARIABLE	"
L	BATH BRASCOLITE * B1000/DF	FLUSH RECESSED	100	"
M	LIGHTOLIER * 10243	CEILING	1/20	UNDER CABINETS
N	STANCO * CLD20021	WEATHERPROOF	150	PART 30 FLOOD LAMP
P	STANCO * CLD2002	HALL MTD. W.P.	2/150	WITH CAST BOX & PART 30 FLOODS



J.P. CONNER  
ELECTRICAL ENGINEER

**ELEC. PLANS & SCHEDULES**

VALENCIA BANK  
BRANCH LIBRARY  
GEORGE C. HAICH A.I.A.  
ARCHITECT

**CITY OF SAN DIEGO**  
ENGINEERING DEPARTMENT

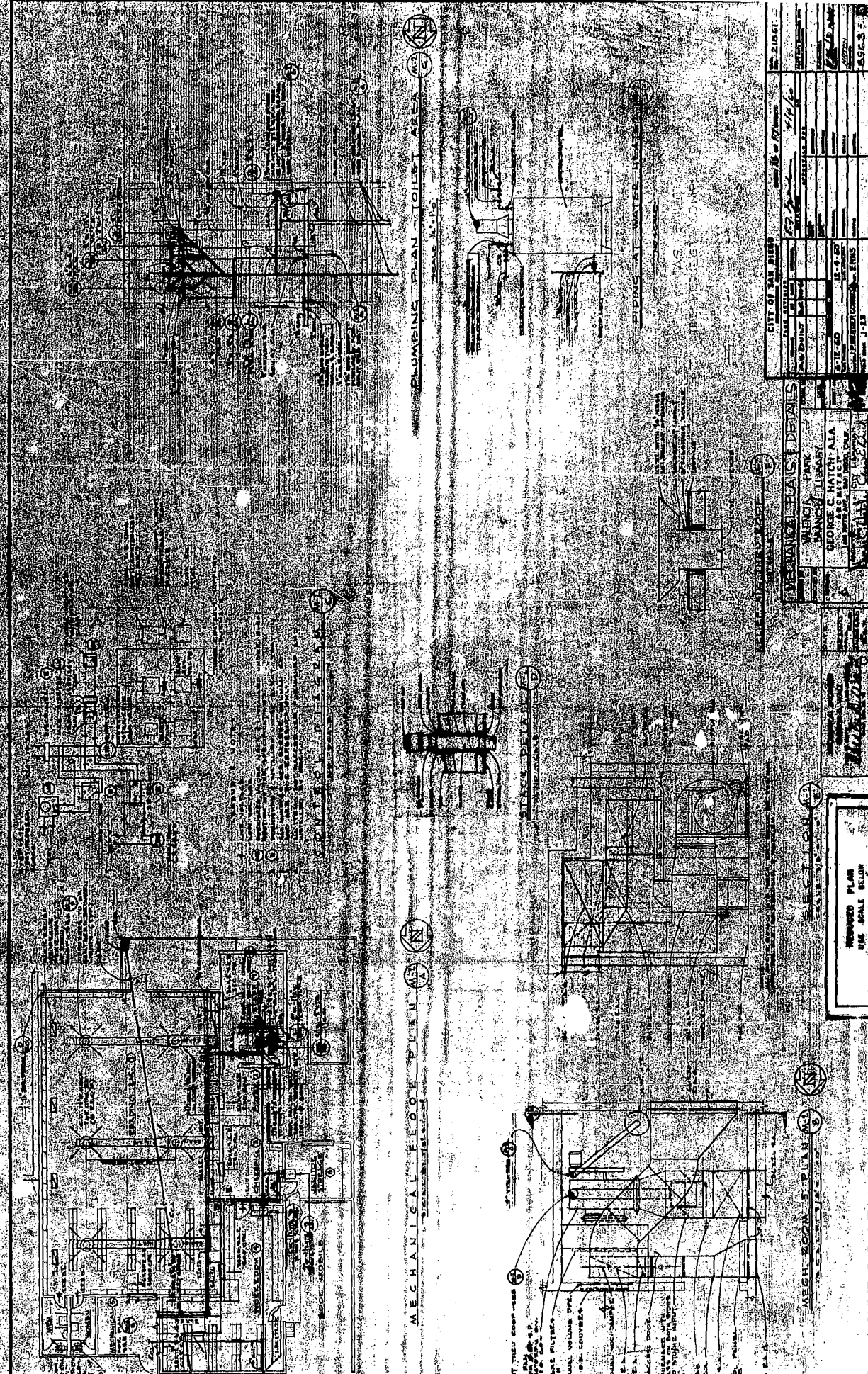
DATE: 12-4-60  
BY: J.P. Conner  
APPROVAL: [Signature]

NO. 21861

DATE: 12-4-60  
BY: J.P. Conner  
APPROVAL: [Signature]

NO.	DATE	BY	REVISION
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MECHANICAL FLOOR PLAN  
SCALE: 1/8" = 1'-0"

Mechanical Plans & Details  
SCALE: 1/8" = 1'-0"

Mechanical E-Plan  
SCALE: 1/8" = 1'-0"

CITY OF SAN DIEGO		21861	
DATE	11/16/60	PROJECT	BRANCH LIBRARY
BY	J. J. [unclear]	NO.	11-1-60
CHECKED	[unclear]	DATE	11-1-60
APPROVED	[unclear]	BY	[unclear]
SCALE	1/8" = 1'-0"	PROJECT NO.	11-1-60
CITY ENGINEER		DATE	
[unclear]		11-1-60	

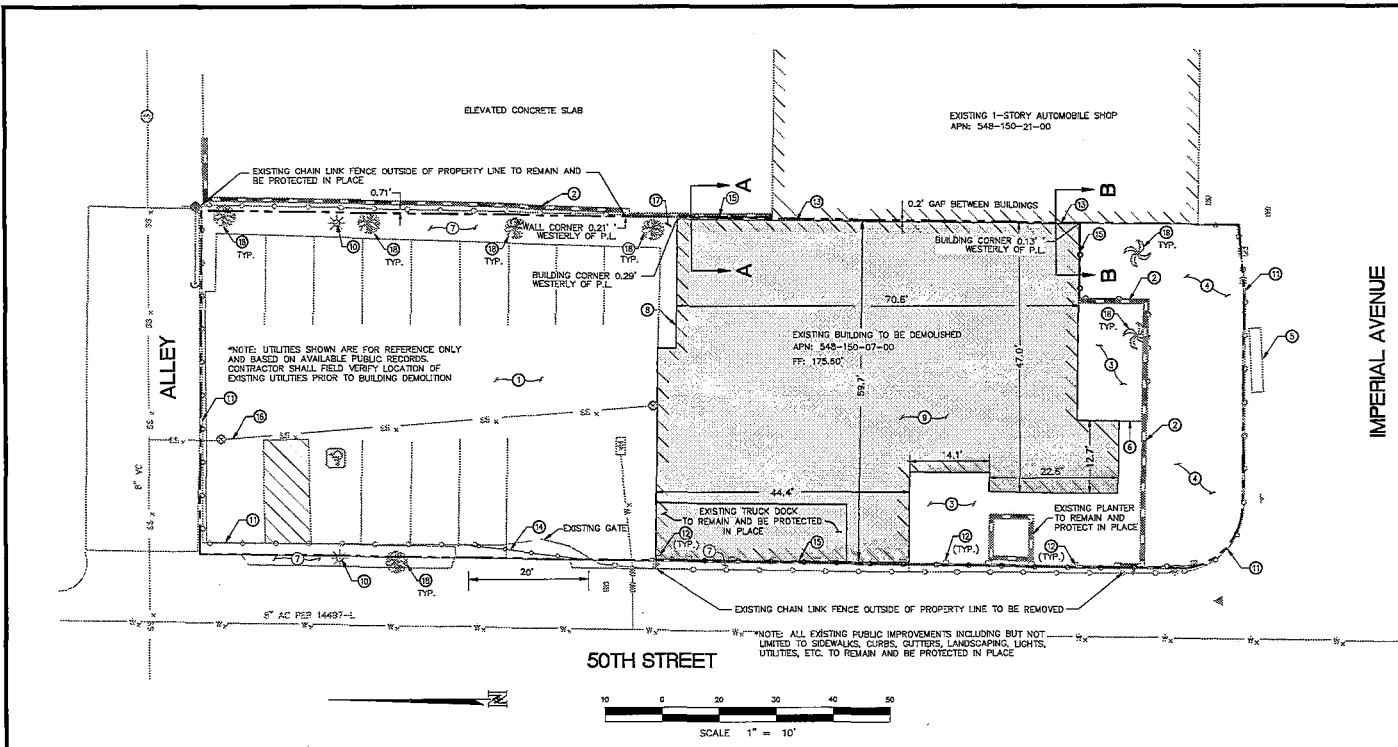
VALENCIA PARK  
BRANCH LIBRARY  
GEORGE C. HATCH, AIA  
ARCHITECT  
101 50th STREET, SAN DIEGO, CALIF.  
VALERIA C. HATCH, AIA  
101 50th STREET, SAN DIEGO, CALIF.

REDUCED PLAN  
USE SCALE BELOW  
1" = 1'-0" ON ORIGINAL SCALE

MICROFILMED  
JUN 2 1968  
MAY 17 1960

**APPENDIX F**  
**DEMOLITION PLAN**





**DEMOLITION NOTES**

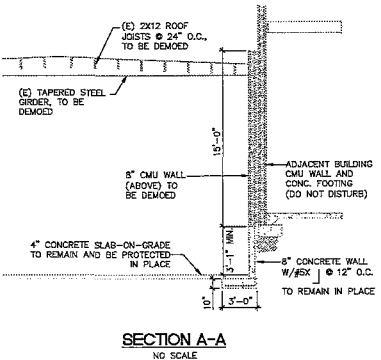
1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
2. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
3. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES. GIVE NOTICE TO ALL UTILITY COMPANIES REGARDING DESTRUCTION AND REMOVAL OF ALL SERVICE LINES AND CAP ALL LINES BEFORE PROCEEDING WITH THE WORK. UTILITIES DETERMINED TO BE ABANDONED AND LEFT IN PLACE SHALL BE CAPPED IF UNDER BUILDING.
4. A CERTIFICATE OF DISCONTINUANCE OF SERVICE FOR BUILDINGS TO BE DEMOLISHED IS REQUIRED FROM SAN DIEGO GAS & ELECTRIC (SDG&E). CALL SDG&E PROJECT MANAGEMENT AT (619)230-7800.
5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., (AND OTHER APPROPRIATE BEST MANAGEMENT PRACTICES) AS APPROVED BY CONSTRUCTION MANAGER.
6. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
7. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
8. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING AND/OR STORM INLET STRUCTURES, THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
9. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

**CONSTRUCTION NOTES**

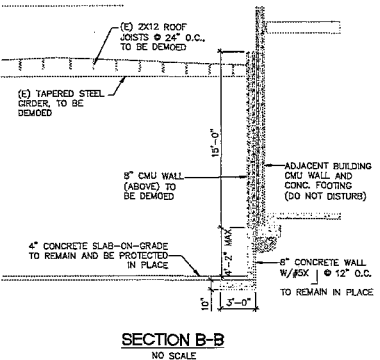
1. EXISTING ASPHALT INCLUDING BUT NOT LIMITED TO LANDSCAPING AND UTILITIES WITHIN PRIVATE PARKING LOT TO REMAIN AND BE PROTECTED IN PLACE.
2. EXISTING WOODEN FENCE AND RETAINING BLOCK WALL TO REMAIN AND BE PROTECTED IN PLACE.
3. EXISTING CONCRETE COURTYARD AND CONCRETE PLANTER TO REMAIN AND BE PROTECTED IN PLACE.
4. EXISTING MULCH AREA, LANDSCAPING, AND CONCRETE PADS TO REMAIN AND BE PROTECTED IN PLACE.
5. EXISTING BUS SHELTER TO REMAIN AND BE PROTECTED IN PLACE.
6. EXISTING WOODEN GATE FROM BUILDING TO BLOCK WALL TO BE REMOVED.
7. EXISTING LANDSCAPE AREA TO REMAIN AND BE PROTECTED IN PLACE.
8. CONTRACTOR TO COORDINATE WITH SDG&E FOR ELECTRICAL METER REMOVAL.
9. CONTRACTOR TO DEMOLISH EXISTING BUILDING. CONTRACTOR TO PROTECT IN PLACE EXISTING CONCRETE PAD.
10. EXISTING LIGHT POLE AND BASE TO REMAIN AND BE PROTECTED IN PLACE.
11. EXISTING SITE PERIMETER CHAIN LINK FENCE TO BE REMOVED AND REPLACED WITH 6" VINYL COATED CHAIN LINK FENCE PER CITY OF SAN DIEGO STANDARD DRAWING SDM-112.
12. CONTRACTOR TO REMOVE AND SALVAGE EXISTING I-BEAMS (12 TOTAL). CONTRACTOR SHALL STORE I-BEAMS ON PARKING LOT SURFACE.
13. CONTRACTOR TO REMOVE EXISTING CMU BLOCKS. CONTRACTOR TO PROTECT IN PLACE EXISTING REINFORCED CONCRETE STEM WALL AND FOOTING. CONTRACTOR TO CUT REBAR AT TOP OF EXISTING REINFORCED CONCRETE STEM WALL. SEE SECTIONS A-A AND B-B FOR MORE INFORMATION.
14. REMOVE AND REPLACE EXISTING CHAIN LINK GATE WITH 20" WIDE CHAIN LINK GATE PER CITY OF SAN DIEGO STANDARD DRAWING SDM-114.
15. INSTALL 6" VINYL COATED CHAIN LINK FENCE PER CITY OF SAN DIEGO STANDARD DRAWING SDM-112 WITHIN PROPERTY LINE.
16. CONTRACTOR TO LOCATE EXISTING SEWER LATERAL AND CAP A MINIMUM OF 5' FROM PROPERTY LINE PER CITY OF SAN DIEGO STANDARD DRAWING WP-03.
17. CONTRACTOR TO REMOVE EXISTING TELEPHONE LINE.
18. CONTRACTOR SHALL PRUNE AND SHAPE EXISTING TREES.

**LEGEND:**

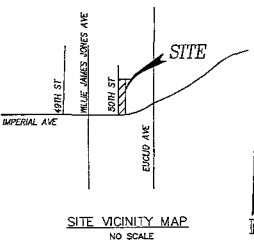
- PROPERTY LINE
- AREA TO BE DEMOLISHED
- PROPOSED CHAIN LINK FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING BLOCK WALL
- EXISTING BUILDING OUTLINE
- EXISTING CLEAN OUT
- EXISTING ELECTRIC METER
- EXISTING ELECTRIC RISER
- EXISTING ELECTRIC TRANSFORMER
- EXISTING ELECTRIC VAULT
- EXISTING GAS METER
- EXISTING LIGHT POLE
- EXISTING POWER POLE
- EXISTING SEWER MANHOLE
- EXISTING SIGN POST
- EXISTING TRAFFIC PULLBOX
- EXISTING GAS VAULT
- EXISTING WIRE ANCHOR
- EXISTING TREE
- EXISTING WATER METER
- EXISTING DOMESTIC WATER LINE
- EXISTING SEWER LINE



**SECTION A-A**  
NO SCALE



**SECTION B-B**  
NO SCALE



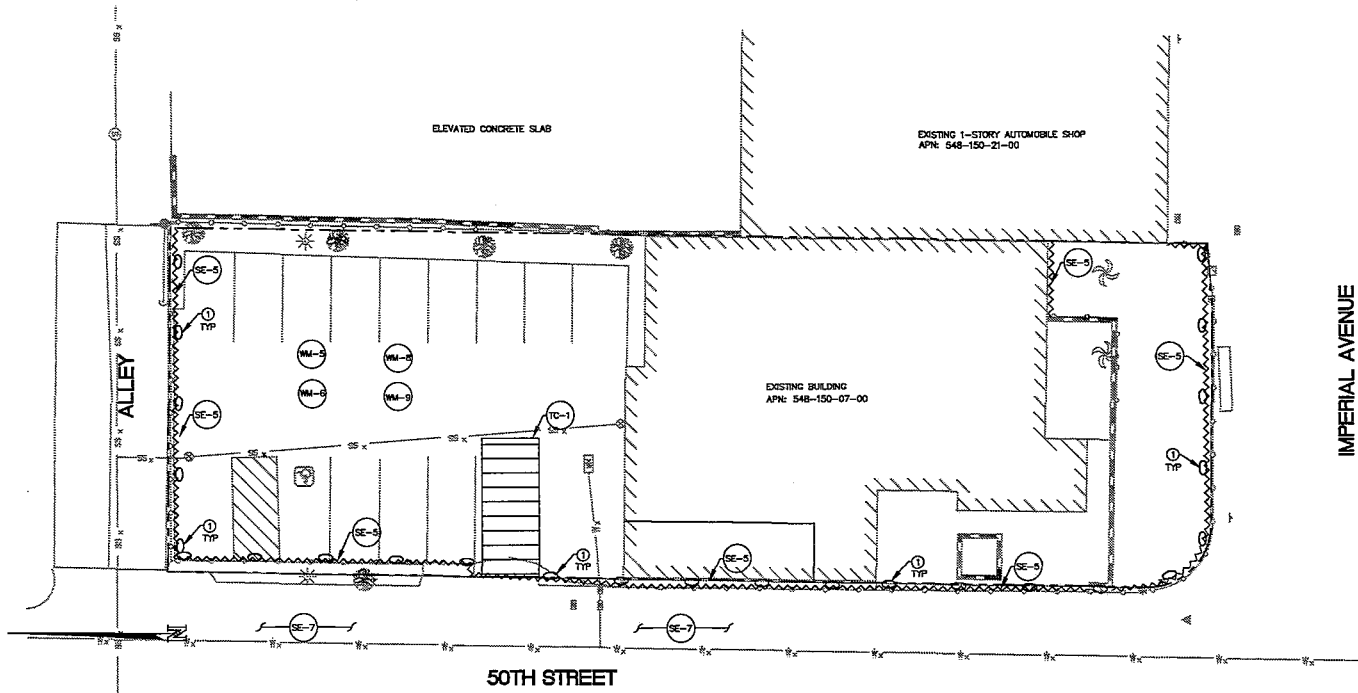
**SITE VICINITY MAP**  
NO SCALE

PRIVATE CONTRACT		DEMOLITION PLANS FOR:	
		<b>101 50TH DEMOLITION</b>	
CITY OF SAN DIEGO, CALIFORNIA DEVELOPMENT SERVICES DEPARTMENT SHEET 1 OF 2 SHEETS		1.D. NO. ....	PROJECT NO. ....
FOR CITY CHIEF	DATE	FILED	V.T.M.
DESCRIPTION	BY	APPROVED	DATE
AS-SHOWN			
CONTRACTOR	DATE STARTED		
INSPECTOR	DATE COMPLETED		
			<b>D-1</b>

**Nasland** Civil Engineering  
Surveying  
Land Planning  
T (619) 293-2770  
4340 Ruffner Street  
San Diego, CA 92111  
nasland.com

SAMUEL WAISSORF R.C.E. NO. 78071 EXP. 09-30-2015 DATE

**APPENDIX G**  
**EROSION CONTROL PLAN**



**EROSION AND SEDIMENT CONTROL NOTES**

TEMPORARY EROSION/SEDIMENT CONTROL, PRIOR TO COMPLETION OF FINAL IMPROVEMENTS, SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

1. ALL REQUIREMENTS OF THE CITY OF SAN DIEGO "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED DEMOLITION CONSISTENT WITH THE APPROVED WATER POLLUTION CONTROL PLAN (WPCP) FOR CONSTRUCTION LEVEL BMP'S.
2. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
3. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
4. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN.
5. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH.
6. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED DEMOLITION OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
7. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS.
8. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH.
9. THE CONTRACTOR SHALL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER.

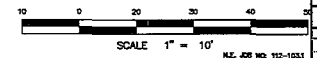
**CONSTRUCTION NOTES**

- ① GRAVEL BAGS TO BE PLACED ON FIBER ROLLS 10 FEET APART

**LEGEND:**

- PROPERTY LINE . . . . . - - - - -
- GRAVEL BAGS . . . . . ○ ○ ○
- FIBER ROLLS PER CALTRANS STORMWATER . . . . . (SE-5) [Symbol]
- STABILIZED 10' x 24' CONSTRUCTION ENTRANCE . . . . . (TC-1) [Symbol]
- STREET SWEEPING AND VACUUMING . . . . . (SE-7) [Symbol]
- SOLID WASTE MANAGEMENT . . . . . (WM-2) [Symbol]
- HAZARDOUS WASTE MANAGEMENT . . . . . (WM-3) [Symbol]
- CONCRETE WASTE MANAGEMENT . . . . . (WM-4) [Symbol]
- SANITARY-SEPTIC WASTE MANAGEMENT . . . . . (WM-5) [Symbol]

SAMUEL WAISBORD R.C.E. NO. 78071 EXP. 09-30-2015 DATE



**Nasland** Civil Engineering  
 Surveying  
 Land Planning  
 T 918 229-7270  
 4240 Bulfinch Street  
 San Diego, CA 92111  
 nasland.com

PRIVATE CONTRACT

EROSION CONTROL PLANS FOR:

**101 50TH DEMOLITION**

CITY OF SAN DIEGO, CALIFORNIA  
 DEVELOPMENT SERVICES DEPARTMENT  
 SHEET 2 OF 2 SHEETS

DESCRIPTION	BY	APPROVED	DATE	DATE

DATE STARTED: \_\_\_\_\_ DATE COMPLETED: \_\_\_\_\_

CONTRACTOR: \_\_\_\_\_ INSPECTOR: \_\_\_\_\_

101-50th  
 "RACKS COORDINATES"  
 101-50th  
 "LANEWAY COORDINATES"

D-2

**APPENDIX H**  
**SAMPLE OF PUBLIC NOTICES**



# CONSTRUCTION NOTICE

## PROJECT NAME

### **Trenching on your street is complete.**

#### **What you need to know:**

- Pipe installation on your street is complete and construction crews are now installing new pipeline for this project at another location.
- You may see temporary trench plates or trench cap for some time, even after construction activities have concluded on your street.

#### **Street resurfacing:**

- Your Streets will be resurfaced once the entire pipeline project is complete. Concrete streets will not be resurfaced curb to curb; only the trench will be backfilled.
- Street resurfacing may be delayed due the City's slurry seal moratorium

#### **Estimated resurfacing completion on your street:**

(Insert Date-Month and Year)

**For questions related to this work**

**Call: (619) 533-4207**

**Email: [engineering@sandiego.gov](mailto:engineering@sandiego.gov)**



This information is available in alternative formats upon request.



**ATTACHMENT F**  
**INTENTIONALLY LEFT BLANK**

2

DIR  
License ✓  
MC

City of San Diego, solely in its capacity as the designated successor agency to the Redevelopment Agency of the City of San Diego, a former public body, corporate and politic, herein referred to as

# Successor Agency

CONTRACTOR'S NAME: Whillock Contracting, Inc.  
ADDRESS: PO Box 2322, La Mesa, CA 91943  
TELEPHONE NO.: 619-579-0700 FAX NO.: 619-579-0955  
CITY CONTACT: Clementina Giordano, Contract Specialist, Email: Cgiordano@sandiego.gov  
Phone No. (619) 533-3481, Fax No. (619) 533-3633  
G. Sorenson/H. McLintock/LJI

## CONTRACT DOCUMENTS



## FOR

Former Valencia Park Library (101 50th Street) Demolition

VOLUME 2 OF 2

BID NO.: K-16-6469-DBB-1  
SAP NO. (WBS/IO/CC): 24005705  
CLIENT DEPARTMENT: 2117  
COUNCIL DISTRICT: 4  
PROJECT TYPE: BD

**THIS CONTRACT IS SUBJECT TO THE FOLLOWING:**

- > THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- > PREVAILING WAGE RATES: STATE  FEDERAL
- > APPRENTICESHIP

**THIS BIDDING DOCUMENT TO BE SUBMITTED IN ITS ENTIRETY REFER TO VOLUME 1 COVER PAGE FOR TIME, DATE, AND LOCATION**

TABLE OF CONTENTS

DESCRIPTION

PAGE NUMBER

Volume 2 - Bidding Documents

The following forms must be completed in their entirety and submitted with the Bid. Include the form(s) even if the information does not apply. Where the information does not apply write in N/A. Failure to include any of the forms may cause the Bid to be deemed non-responsive. If you are uncertain or have any questions about any required information, contact the City no later than 14 days prior to Bid due date.

- 1. Bid/Proposal..... 3
- 2. Non-Collusion Affidavit to be executed by Bidder and Submitted with Bid under 23 USC 112 and PCC 7106 ..... 6
- 3. Contractors Certification of Pending Actions ..... 7
- 4. Equal Benefits Ordinance Certification of Compliance..... 8
- 5. Proposal (Bid)..... 9
- 6. Form AA35 - List of Subcontractors ..... 12
- 7. Form AA40 - Named Equipment/Material Supplier List ..... 13

The Successor Agency is defined in SECTION 1 – TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS of Volume 1 of this solicitation. All references herein to City shall be deemed to refer to the Successor Agency where necessary to identify the agency in privity of contract for the performance of this project.



**BIDDING DOCUMENTS**

---

**PROPOSAL**

**Bidder's General Information**

To the City of San Diego:

Pursuant to "Notice Inviting Bids", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and, further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

The undersigned bidder(s) further warrants that bidder(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Bidding Documents therefore, and that by submitting said Bidding Documents as its bid proposal, bidder(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Bidding Documents.

**IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_
- (2) Signature (Given and surname) of proprietor \_\_\_\_\_
- (3) Place of Business (Street & Number) \_\_\_\_\_
- (4) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_
- (5) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_
- (6) Email Address \_\_\_\_\_

**IF A PARTNERSHIP, SIGN HERE:**

- (1) Name under which business is conducted \_\_\_\_\_

**BIDDING DOCUMENTS**

---

(2) Name of each member of partnership, indicate character of each partner, general or special (limited):

\_\_\_\_\_  
\_\_\_\_\_

(3) Signature (Note: Signature must be made by a general partner)

\_\_\_\_\_

Full Name and Character of partner

\_\_\_\_\_  
\_\_\_\_\_

(4) Place of Business (Street & Number) \_\_\_\_\_

(5) City and State \_\_\_\_\_ Zip Code \_\_\_\_\_

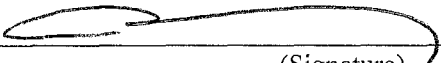
(6) Telephone No. \_\_\_\_\_ Facsimile No. \_\_\_\_\_

(7) Email Address \_\_\_\_\_

**IF A CORPORATION, SIGN HERE:**

(1) Name under which business is conducted Whillock Contracting, Inc.

(2) Signature, with official title of officer authorized to sign for the corporation:

  
\_\_\_\_\_  
(Signature)

Tory M. Whillock  
\_\_\_\_\_  
(Printed Name)

Secretary  
\_\_\_\_\_  
(Title of Officer)

(Impress Corporate Seal Here)

(3) Incorporated under the laws of the State of California

(4) Place of Business (Street & Number) 346 Front St.

(5) City and State El Cajon, CA Zip Code 92020

(6) Telephone No. 619-579-0700 Facsimile No. 619-579-0955

(7) Email Address estimating@whillockcontracting.com

**BIDDING DOCUMENTS**

---

**THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:**

In accordance with the "NOTICE INVITING BIDS", the bidder holds a California State Contractor's license for the following classification(s) to perform the work described in these specifications:

LICENSE CLASSIFICATION A, B, C12, C21, ASB, HAZ

LICENSE NO. 572217 EXPIRES 06/30/2017

DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REGISTRATION NUMBER: 1000001767

This license classification must also be shown on the front of the bid envelope. Failure to show license classification on the bid envelope may cause return of the bid unopened.

TAX IDENTIFICATION NUMBER (TIN): [REDACTED]

Email Address: estimating@whillockcontracting.com

**THIS PROPOSAL MUST BE NOTARIZED BELOW:**

I certify, under penalty of perjury, that the representations made herein regarding my State Contractor's license number, classification and expiration date are true and correct.

Signature  Title Secretary

SUBSCRIBED AND SWORN TO BEFORE ME, THIS \_\_\_\_\_ DAY OF \_\_\_\_\_

Notary Public in and for the County of See Attached, State of \_\_\_\_\_

\_\_\_\_\_  
(NOTARIAL SEAL)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

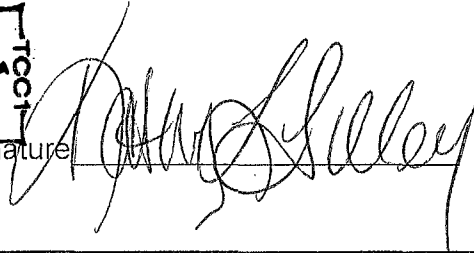
State of California  
County of San Diego

Subscribed and sworn to (or affirmed) before me on this 6th  
day of August, 2015, by Tory M. Whillock

proved to me on the basis of satisfactory evidence to be the  
person(s) who appeared before me.



(Seal)

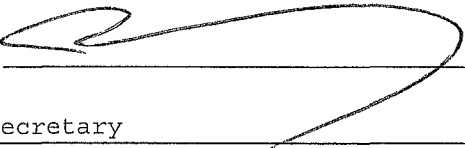
Signature 

**BIDDING DOCUMENTS**

**NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND  
SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND  
PUBLIC CONTRACT CODE 7106**

State of California )  
 ) ss.  
County of San Diego )

Tory M. Whillock, being first duly sworn, deposes and says that he or she is the Secretary of the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

Signed:  \_\_\_\_\_

Title: Secretary \_\_\_\_\_

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_  
See Attached  
\_\_\_\_\_  
Notary Public

(SEAL)

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California  
County of San Diego

Subscribed and sworn to (or affirmed) before me on this 6th  
day of August, 2015, by Tory M. Whillock

proved to me on the basis of satisfactory evidence to be the  
person(s) who appeared before me.



Signature *Kathy L. Tilley*

**BIDDING DOCUMENTS**

**CONTRACTORS CERTIFICATION OF PENDING ACTIONS**

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

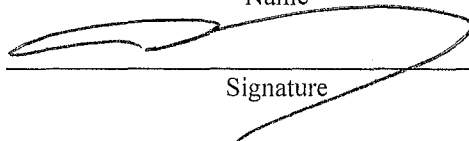
- The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.
  
- The undersigned certifies that within the past 10 years the Bidder has been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers. A description of the status or resolution of that complaint, including any remedial action taken and the applicable dates is as follows:

DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	STATUS	RESOLUTION/REMEDIAL ACTION TAKEN

Contractor Name: Whillock Contracting, Inc.

Certified By Tory M. Whillock Title Secretary

Name



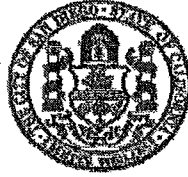
Signature

Date August 6, 2015

**USE ADDITIONAL FORMS AS NECESSARY**

**BIDDING DOCUMENTS**

**EQUAL BENEFITS ORDINANCE  
CERTIFICATION OF COMPLIANCE**



For additional information, contact:  
**CITY OF SAN DIEGO**  
**EQUAL BENEFITS PROGRAM**  
 202 C Street, MS 9A, San Diego, CA 92101  
 Phone (619) 533-3948 Fax (619) 533-3220

COMPANY INFORMATION	
Company Name: Whillock Contracting, Inc.	Contact Name: Tory M. Whillock
Company Address: PO Box 2322, La Mesa, CA 91943	Contact Phone: 619-579-0700
	Contact Email: <a href="mailto:estimating@whillockcontracting.com">estimating@whillockcontracting.com</a>

CONTRACT INFORMATION	
Contract Title: Former Valencia Park Library Demolition	Start Date:
Contract Number (if no number, state location): K-16-6469-DBB-1	End Date:

**SUMMARY OF EQUAL BENEFITS ORDINANCE REQUIREMENTS**

The Equal Benefits Ordinance [EBO] requires the City to enter into contracts only with contractors who certify they will provide and maintain equal benefits as defined in SDMC §22.4302 for the duration of the contract. To comply:

- Contractor shall offer equal benefits to employees with spouses and employees with domestic partners.
  - Benefits include health, dental, vision insurance; pension/401(k) plans; bereavement, family, parental leave; discounts, child care; travel/relocation expenses; employee assistance programs; credit union membership; or any other benefit.
  - Any benefit not offer an employee with a spouse, is not required to be offered to an employee with a domestic partner.
- Contractor shall post notice of firm's equal benefits policy in the workplace and notify employees at time of hire and during open enrollment periods.
- Contractor shall allow City access to records, when requested, to confirm compliance with EBO requirements.
- Contractor shall submit *EBO Certification of Compliance*, signed under penalty of perjury, prior to award of contract.

NOTE: This summary is provided for convenience. Full text of the EBO and Rules Implementing the EBO are available at [www.sandiego.gov/administration](http://www.sandiego.gov/administration).

**CONTRACTOR EQUAL BENEFITS ORDINANCE CERTIFICATION**

Please indicate your firm's compliance status with the EBO. The City may request supporting documentation.

I affirm **compliance** with the EBO because my firm (*contractor must select one reason*):

- Provides equal benefits to spouses and domestic partners.
- Provides no benefits to spouses or domestic partners.
- Has no employees.
- Has collective bargaining agreement(s) in place prior to January 1, 2011, that has not been renewed or expired.

I request the City's approval to pay affected employees a cash equivalent in lieu of equal benefits and verify my firm made a reasonable effort but is not able to provide equal benefits upon contract award. I agree to notify employees of the availability of a cash equivalent for benefits available to spouses but not domestic partners and to continue to make every reasonable effort to extend all available benefits to domestic partners.

It is unlawful for any contractor to knowingly submit any false information to the City regarding equal benefits or cash equivalent associated with the execution, award, amendment, or administration of any contract. [San Diego Municipal Code §22.4307(a)]

Under penalty of perjury under laws of the State of California, I certify the above information is true and correct. I further certify that my firm understands the requirements of the Equal Benefits Ordinance and will provide and maintain equal benefits for the duration of the contract or pay a cash equivalent if authorized by the City.

Tory M. Whillock/Secretary \_\_\_\_\_ 08/06/2015  
 Name/Title of Signatory Signature Date

**FOR OFFICIAL CITY USE ONLY**

Receipt Date: \_\_\_\_\_ EBO Analyst: \_\_\_\_\_  Approved  Not Approved – Reason: \_\_\_\_\_

(Rev 02/15/2011)



**BIDDING DOCUMENTS**

**PROPOSAL (BID)**

The Bidder agrees to the construction of **Former Valencia Park Library (101 50th Street) Demolition**, for the City of San Diego, in accordance with these contract documents for the prices listed below. The Bidder guarantees the Contract Price for a period of 120 days (90 days for federally funded contracts and contracts valued at \$500,000 or less) from the date of Bid opening to Award of the Contract. The duration of the Contract Price guarantee shall be extended by the number of days required for the City to obtain all items necessary to fulfill all conditions precedent e.g., bond and insurance.

Item	Quantity	Unit	NAICS	Payment Reference	Description	Unit Price	Extension	
<b>BASE BID</b>								
1	1	AL	541330	7-5.3	Permit Fees - Type II	<del> </del>	\$1,000.00	
2	1	LS	561990	7-10.2.6	Traffic Control	<del> </del>	\$ 633.00	
3	1	LS	524126	2-4.1	Bonds (Payment and Performance)	<del> </del>	\$ 1,503.00	
4	1	LS	238910	9-3.4.1	Mobilization	<del> </del>	\$ 5,533.00	
5	1	AL		9-3.5	Field Orders - Type I	<del> </del>	\$5,000.00	
6	1	LS	238910	300-1.5.6	Demolition of 101 50th Street	<del> </del>	\$ 24,420.00	
7	1	LS	562910	703-20	Hazardous Material Abatement	<del> </del>	\$ 44,693.00	
8	290	LF	238990	304-3.4	Chain Link Fence	\$ 49.61	\$ 14,386.90	
9	1	EA	238990	304-3.4	Chain Link Gate	\$ 3,108.00	\$ 3,108.00	
10	1	LS	541330	701-13.9.5	Water Pollution Control Program Development	<del> </del>	\$ 2,000.00	
11	1	LS	238910	701-13.9.5	Water Pollution Control Program Implementation	<del> </del>	\$ 4,301.00	
<b>ESTIMATED TOTAL BASE BID:</b>							\$ 106,577.90	✓

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**BIDDING DOCUMENTS**

TOTAL BID PRICE FOR BID (Items 1 through 11 inclusive) amount written in words:

one hundred six thousand five hundred seventy seven dollars and ninety cents.

The Bid shall contain an acknowledgment of receipt of all addenda, the numbers of which shall be filled in on the Bid form. If an addendum or addenda has been issued by the City and not noted as being received by the Bidder, this proposal shall be rejected as being **non-responsive**. The following addenda have been received and are acknowledged in this bid: N/A

The names of all persons interested in the foregoing proposal as principals are as follows:

Mark B. Whillock- President

Brent P. Whillock- Vice President

Tory M. Whillock- Secretary

Susan K. Whillock- Treasurer

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

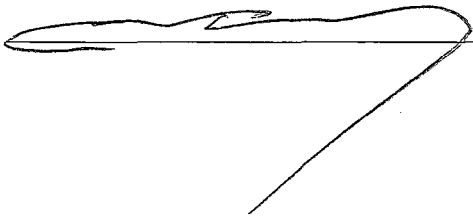
Bidder: Whillock Contracting, Inc.

Title: Tory M. Whillock- Secretary

Business Address: PO Box 2322, La Mesa, CA 91943

Place of Business: 346 Front St., El Cajon, CA 92020

Place of Residence: 346 Front St., El Cajon, CA 92020

Signature: 

## BIDDING DOCUMENTS

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### NOTES:

- A. The low Bid will be determined by the Base Bid alone.
- B. Prices and notations shall be in ink or typewritten. All corrections (which have been initiated by the Bidder using erasures, strike out, line out, or "white-out") shall be typed or written in with ink adjacent thereto, and shall be initialed in ink by the person signing the bid proposal.
- C. Failure to initial all corrections made in the bidding documents may cause the Bid to be rejected as **non-responsive** and ineligible for further consideration.
- D. Blank spaces must be filled in, using figures. Bidder's failure to submit a price for any Bid item that requires the Bidder to submit a price shall render the Bid **non-responsive** and shall be cause for its rejection.
- E. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- F. All extensions of the unit prices bid will be subject to verification by the City. In the case of inconsistency or conflict between the product of the Quantity x Unit Price and the Extension, the product shall govern.
- G. In the case of inconsistency or conflict, between the sums of the Extensions with the estimated total Bid, the sum of the Extensions shall govern.
- H. Bids shall not contain any recapitulation of the Work. Conditional Bids will be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- I. Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

**BIDDING DOCUMENTS**

**LIST OF SUBCONTRACTORS**

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Bidder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also list below the portion of the work which will be done by each subcontractor under this Contract. The Contractor shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Bidders' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Bidders are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

Subcontractors' License Number must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT (MUST BE FILLED OUT)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Fence Corp Inc. Address: 2401 Industry St. City: Oceanside State: CA Zip: 92054 Phone: 760-721-2101 Email: a.said@fencecorp.us	Constructor	886544	chain link fence & gate	\$16,662.50	NO	N/A	NO
Name: ASE Contracting Address: 1985 Friendship Dr. Ste J City: El Cajon State: CA Zip: 92020 Phone: 619-258-7290 Email: asecontracting@sbcglobal.net	Constructor	765083	abatement	\$28,279.00	NO	N/A	NO

① As appropriate, Bidder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

- |   |        |  |         |
|---|--------|--|---------|
| Certified Minority Business Enterprise        | MBE    | Certified Woman Business Enterprise            | WBE     |
| Certified Disadvantaged Business Enterprise   | DBE    | Certified Disabled Veteran Business Enterprise | DVBE    |
| Other Business Enterprise                     | OBE    | Certified Emerging Local Business Enterprise   | ELBE    |
| Certified Small Local Business Enterprise     | SLBE   | Small Disadvantaged Business                   | SDB     |
| Woman-Owned Small Business                    | WoSB   | HUBZone Business                               | HUBZone |
| Service-Disabled Veteran Owned Small Business | SDVOSB |  |         |

② As appropriate, Bidder shall indicate if Subcontractor is certified by:

- |  |        |  |          |
|--|--------|--|----------|
| City of San Diego                                    | CITY   | State of California Department of Transportation       | CALTRANS |
| California Public Utilities Commission               | CPUC   | San Diego Regional Minority Supplier Diversity Council | SRMSDC   |
| State of California's Department of General Services | CADoGS | City of Los Angeles                                    | LA       |
| State of California                                  | CA     | U.S. Small Business Administration                     | SBA      |

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**

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**BIDDING DOCUMENTS**

**NAMED EQUIPMENT/MATERIAL SUPPLIER LIST**

The Bidder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall list the Supplier(s) on the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, shall have the name, locations (City) and the **DOLLAR VALUE** of the Suppliers. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for such materials and supplies unless vendor manufactures or substantially alters materials and supplies in which case 100% will be credited. The Bidder is to indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the Subcontractor Participation Percentage, Suppliers will receive 60% credit of the listed **DOLLAR VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **DOLLAR VALUE** for purposes of calculating the subcontractor participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	DOLLAR VALUE OF MATERIAL OR SUPPLIES (MUST BE FILLED OUT)	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB	WHERE CERTIFIED
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____	N/A					
Name: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone: _____ Email: _____	N/A					

① As appropriate, Bidder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE,SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Bidder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

**The Bidder will not receive any subcontracting participation percentages if the Bidder fails to submit the required proof of certification.**